NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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August 15, 2016

Mr. William Ryan
National Grid
Site Investigation and Remediation
175 East Old Country Road
Hicksville, NY 11801

Re: Remedial Investigation Report
Former Equity Works MGP
Brooklyn, Kings County
Site # 224050

Dear Mr. Ryan:

The Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Remedial Investigation Report for the subject site. The report is acceptable and is hereby approved.

The next appropriate step is to begin the Feasibility Study (FS) to evaluate remedial options for the site. I recommend that a Feasibility Study scoping meeting be held among the Department, National Grid and NYSDOH to determine the appropriate scope for the FS. Please provide dates in September and early October when you and your team can be available to meet in our Albany offices. I will then coordinate with NYSDOH to set a meeting time.

Yours truly,

Henry T. Willems
Engineering Geologist 2

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Prepared for:
National Grid
Brooklyn, New York

Prepared by:
AECOM
Chelmsford, MA
60137362
March 2016

Remedial Investigation Report

Former Equity Works MGP Site
222-254 Maspeth Avenue
Brooklyn, Kings County, New York

NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606

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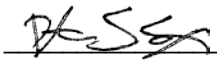
Prepared By Joshua Millard, P.G.

Prepared By Jennifer Atkins

Reviewed By Peter Cox, P.G.

Professional Certification

I, Peter S. Cox, certify that I am currently a Qualified Environmental Professional as defined in 6NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statues and regulations and in substantial conformance with the Department of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in accordance with the DER-approved work plan and any DER-approved modifications.

Signature  Date 9/8/2016

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Acronyms and Abbreviations

Accutest	Accutest Laboratories
AECOM	AECOM Technical Services, Inc.
ASP	NYSDEC Analytical Services Protocol
ASTM	American Society for Testing and Materials
Ave	Avenue
AWQSGV	Ambient Water Quality Standards and Guidance Value
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene and xylenes
BUG	Brooklyn Union Gas Company
CAMP	Community Air Monitoring Plan
COC	Constituent Of Concern
Cooper Tank	Cooper Tank Recycling
CSM	conceptual site model
cu. ft	cubic feet
cVOC	chlorinated volatile organic compound
cy	cubic yards
DER	Department of Environmental Remediation
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
DRO	diesel range organics
DUSR	Data Usability Summary Report
EEA	Energy & Environmental Analysts, Inc.
EM	electromagnetic
ESA	Environmental Site Assessment
ESI	Environmental Subsurface Investigation
FedEx	Federal Express
FOIL	Freedom of Information Law
FSAP	Field Sampling and Analytical Plan
ft	feet
ft/d	feet per day
FWRIA	Fish and Wildlife Resources Impact Analysis
GFE	Gannett Fleming Engineers, P.C.
gpd	gallons per day
gpm	gallons per minute
GPR	ground penetrating radar
GRO	gasoline range organics
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IA	indoor air

IDW	Investigation Derived Waste
IRM	Interim Remedial Measure
ISMP	Interim Site Management Plan
LCS	laboratory control standards
LNAPL	lighter-than-water non-aqueous phase liquid
LNG	liquefied natural gas
MDL	method detection limit
mg/kg	milligrams per kilogram
MGP	Manufactured Gas Plant
ml/min	milliliters per minute
MS	matrix spike
MSD	matrix spike duplicate
MTBE	methyl tert-butyl ether
NAPL	non-aqueous phase liquid
NAVD88	North American Vertical Datum of 1988
NTU	Nephelometric Turbidity Units
NYCDHMH	New York City Department of Health and Mental Hygiene
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transport
ORP	oxidation reduction potential
OSHA	Occupational Safety and Health Administration
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PDI	Pre-Design Investigation
PID	Photoionization Detector
ppm	parts per million
PVC	polyvinyl chloride
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
QHHEA	Qualitative Human Health Exposure Assessment
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RI Study Area	former Equity Works MGP Site and other off-Site areas
RIWP	Remedial Investigation Work Plan, Equity Former MGP Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606 (AECOM, July 2009)
RPD	Relative percent difference
SCO	Soil Cleanup Objectives
Site	former Equity Works MGP Site
Spectrum	Spectrum Analytical, Inc.

SV	soil vapor
SVOC	semi volatile organic compound
TAL	Target Analyte List
TCE	trichloroethene
TCL	Target Compound List
TestAmerica	TestAmerica Laboratories, Inc.
TOGS	NYSDEC - Division of Water – Technical Operation Guidance Series
TPH	total petroleum hydrocarbons
UGA	Upper Glacial Aquifer
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	underground storage tank
VOC	volatile organic compound
µg/L	micrograms per liter

Executive Summary

On behalf of the Brooklyn Union Gas Company (BUG) (dba National Grid NY), AECOM Environment (AECOM) has conducted a Remedial Investigation (RI) of the former Equity Works manufactured gas plant (MGP) Site (the Site) and prepared this RI Report to present the results.

The former MGP facility was constructed in 1892 by the Equity Gas Works Construction Company. The MGP facility was acquired by BUG, a predecessor company to National Grid, in approximately 1903. The plant was developed to its maximum extent in1921. The relief holder was partially decommissioned by 1931 and the gas manufacturing equipment removed by 1933. Throughout this report, the area comprising the footprint of the historic MGP is defined as the "Site." Collectively, the Site and other off-Site areas investigated as part of the RI are referred to as the "RI Study Area."

The entire Site is now owned by third parties. The manufacturing and industrial operations in the Site area prior to and during this period included companies that processed/stored oil, manufactured rope/twine, and dyed fabric. These operations are believed to have resulted in a complex nature of environmental impacts to soil and groundwater that included petroleum/tar, solvents and dyes.

Site Setting

The former MGP facility was located on three parcels of land at 222 – 254 Maspeth Avenue, Brooklyn, Kings County, New York 11211, northwest of the English Kills tributary of Newtown Creek, between Grand Street and the Brooklyn Queens Expressway (Highway 278).

The Site is currently occupied by Cooper Tank Recycling Company and is zoned for heavy manufacturing use. Current operations at the Site include recycling and sorting of building materials. Currently, the Site is bounded by the following industrial or commercial facilities/areas:

- To the north – Maspeth Avenue and National Grid's Greenpoint Energy Center Site which includes a liquefied natural gas (LNG) facility. A separate MGP operated on the property from 1927 to approximately 1952.
- To the south – The adjacent property was initially a marsh with drainage running to the south to the English Kills tributary of Newtown Creek. The property was filled in the early 1900s and subsequent operations on the property included coal transfer and storage, storage for building materials, fuel oil storage and truck filling, carpet handling, material recycling, and industrial manufacturing and shipping. More recent operations in the property include electronics storage and shipping and paper products storage and shipping.
- To the east –The 300 Maspeth Avenue property initially consisted of marsh and drainage canals, which were progressively filled over time. The southern portion of the property was filled in the early 1900s, while the northern portion of the property was not developed until the early 1960s. Operations subsequent to the filling included coal yards, lumber yards, oil handling, oil and putty manufacturing, fuel oil storage and truck filling, and motor freight with truck servicing. Facilities have included multiple above ground petroleum storage tanks as well as six 10,000 gallon underground storage tanks (USTs) for gasoline. The latter were likely removed when the property was developed as a truck terminal and parking lot in the mid-1960's. The truck terminal is currently occupied by Federal Express.

- To the west – Vandervoort Avenue, and a consistent set of businesses, including a shipping warehouse and a truck wash facility, have occupied the adjacent properties. Current operations include a truck wash facility, metal and glass fabrication, and retail businesses.

Many of the industrial operations that operated in the area of the Site used petroleum feedstocks or managed products that are similar to those generally associated with the MGP process. As a result, these non-MGP operations may be associated with environmental residuals that are similar in nature and composition to by- products from the MGP process and can complicate the process of identifying specific sources of impact.

Remedial Investigation

The RI was performed pursuant to a Multi-Site Order on Consent and Administrative Settlement, Index #A2-0552-0606, executed on February 22, 2007 and modified on August 10, 2007, between BUG (now d/b/a National Grid NY) and the New York State Department of Environmental Conservation (NYSDEC). The RI was performed to identify sources of environmental impacts, delineate the associated extent of impacts, determine the surface and subsurface conditions in the area of the Site, and evaluate potential off-Site migration pathways and their potential contributions to media and receptors. The fieldwork for the RI was performed with NYSDEC oversight using procedures described in the NYSDEC-approved documents, including: a Remedial Investigation Work Plan and four addenda, a Field Sampling and Analytical Plan (FSAP), a Quality Assurance Project Plan (QAPP), a Community Air Monitoring Plan (CAMP), and a Site-Specific Health and Safety Plan (HASP).

The data presented in this RI Report were collected over six separate mobilizations during the period from September 2009 to May 2015, with the completion of the following activities:

- Drilling of 93 soil borings and 4 test pits, with the collection of 148 subsurface soil samples for analysis
- Collection of 4 surface soil samples for analysis
- Installation of 40 monitoring wells and collection of 40 groundwater samples (including 2 groundwater grab samples) for analysis

Additional activities included the evaluation of potential for vapor intrusion, and aquifer testing and tidal monitoring at selected monitoring wells.

During the RI, two Interim Remedial Measures were performed at the Site. The first, completed in September of 2012, removed shallow soils containing visible source material in a portion of the 254 Maspeth Avenue parcel where construction work was planned by the current property owner. In April 2013, 23 recovery wells were installed within and along the perimeter of the Site to recover non-aqueous phase liquid (NAPL) present above a subsurface confining layer.

Summary of Findings

A discussion of the geology/hydrogeology and summaries of the characterization of impacts to soil and groundwater are provided below.

Geology and Hydrogeology

The stratigraphy in the RI Study Area includes urban fill (to a depth of 15 to 25 feet below ground surface (ft bgs) that is generally underlain by the following low permeability units:

- a meadow mat (the former ground surface prior to development), encountered from 8 to 26 ft bgs, that was laterally continuous beneath the RI Study Area.
- an intermediate clay unit, encountered from 36 to 52 ft bgs, that was laterally continuous under the majority of the RI Study Area with the exception of the western portion of the Site.
- a lower clay unit, encountered from 78 to 86 ft bgs, comprised of a discontinuous clay unit observed in a subset of borings beneath the 222, 252, and western portion of the 254 Maspeth Avenue parcels, and extending to the north onto the Greenpoint property and to the south beneath 1 Rewe Street and the western portion of 7-9 Rewe Street.
- the regional Gardiners Clay unit, that was laterally continuous beneath the RI Study Area and located from 80 to 100 ft bgs. .

Interbedded sands and silts are present beneath the meadow mat and between the various low permeability units. As noted above, the intermediate clay and lower clay units were observed to pinch out towards the western edge of the Site near the former relief holder.

The water table was observed at 6 to 10 ft below ground surface. Groundwater flow in the shallow, intermediate and deep overburden aquifer zones is generally to the east and southeast. On a regional basis, given that the Upper Glacial Aquifer (UGA) beneath the site is over 100 feet (ft) thick and that the English Kills represents the upper reach of an estuarine system of Newtown Creek, it is likely that some portion of deep groundwater flow beneath the Site underflows the English Kills/Newtown Creek system and discharges more directly to the regional East River discharge boundary. Although there are measurable vertical head potential differences between the aquifer zones from shallow to intermediate and from deep to intermediate portions of the aquifer, the presence of the low conductivity meadow mat and intermediate clay units likely impedes actual groundwater flow between the shallow to intermediate and deep to intermediate zones. The data collected during the project indicates that portions of the deep aquifer beneath the RI Study Area can be affected by tidal cycles.

Non Aqueous Phase Liquid (NAPL) and Soil Impacts

NAPL impacts do not extend beyond the RI Study Area and are largely confined to the Site. The evaluation of soil quality was complicated by the fact that impacts, including staining, sheen and the presence of NAPL can be evidence of environmental impacts from the MGP as well as from a number of the other non-MGP industrial sources that have been identified in the RI Study Area. However, based on Site history and RI findings, tar handling structures on the 222 Maspeth Avenue parcel and the western edge of the 254 Maspeth Avenue parcel were identified as the likely sources of both NAPL and dissolved phase chemicals in the groundwater at the Site. Non-MGP related constituents such as polychlorinated biphenyls (PCBs) were also identified in soils beneath the RI Study Area.

NAPL is believed to have migrated vertically downward through the fill under density driven flow until it reached the former natural ground surface (meadow mat), where a portion of the NAPL spread laterally to the north and east within, or on top of, the meadow mat surface. NAPL also migrated vertically through the underlying more permeable glacial outwash sands, where it collected on the intermediate clay layer at typical depths of 45 to 50 ft bgs. The intermediate clay unit pinches out

under the 222 Maspeth Avenue parcel roughly mid-way beneath the former No. 1 Relief Holder and is absent in borings advanced west of this area.

The absence of the confining intermediate clay at the western edge of the Site allowed portions of the released NAPL to migrate vertically downward to the next confining or semi-confining layer, which is identified in this RI as the lower clay lens. The lower clay lens is a discontinuous clay unit observed in a subset of borings beneath the 222, 252, and western portion of the 254 Maspeth Avenue parcels, and extending to the north onto the Greenpoint property and to the south beneath 1 Rewe Street and the western portion of 7-9 Rewe Street. The lower clay lens is absent in the western portion of the 222 Maspeth Avenue parcel.

The absence of the lower clay lens beneath a portion of the 222 Maspeth Avenue parcel may have allowed some of the released NAPL to migrate vertically downward to the top of the Gardiners Clay. As the NAPL continued to migrate further from its source, the volume of the NAPL and the driving head of the NAPL decreased. As a result, the least amount of NAPL was observed at the top of the Gardiners Clay surface. Where present, NAPL presence also aligned with the topography of the top of the Gardiners Clay surface.

NAPL presence was observed to be aligned with the topography of the various lower permeability units, which largely limited its potential to migrate from the Site to adjacent locations within the RI Study Area. Data from the RI demonstrated that although NAPL impacts were observed in one boring on the eastern edge of the RI Study Area on the FedEx property, the limited impacts were in a residual rather than saturated state, demonstrating no potential for future migration. NAPL impacts were observed under the properties immediately adjacent to the Site to the south.

The laboratory analysis of soil samples demonstrated that exceedances of the applicable NYSDEC Soil Cleanup Objectives (SCOs) were largely limited to volatile organic compounds such as benzene, toluene, ethylbenzene and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs). Both classes of compounds are associated with petroleum and MGP residuals. There were limited detections of polychlorinated biphenyl compounds, and none of the detections were associated with the MGP operations. Twelve of the 15 samples with detections of PCBs above the Unrestricted Use SCOs were from the top 6.5 ft of the surface material of the Site in fill placed following cessation of MGP operations. The remaining samples with detections of PCBs above Unrestricted use SCOs were collected at an offsite location (300 Maspeth Avenue) where MGP operations did not occur.

The horizontal extent of BTEX and PAH impacts in soil was delineated by borings to the west along Vandervoort Avenue, to the south on adjacent commercial properties, to the east (with the exception of an area on the FedEx property (300 Maspeth Avenue) where USTs were formerly located), and to the north, onto National Grid's Greenpoint Energy Center which is currently being investigated under a separate RI under NYSDEC oversight.

The vertical delineation of BTEX and PAH impacts in soil is limited to the RI Study Area and only 19 of 55 samples taken from depths below 40 ft bgs or greater had constituent concentrations above the Unrestricted Use SCOs. It's important to note that the nature and extent of environmental impacts is affected by a number of factors including historic land use and the contribution from surrounding sources.

Groundwater

Dissolved phase impacts in shallow zone (water table) wells are largely isolated to the former Site boundary, with significantly lower levels (typically low to non-detect) at adjacent locations in the RI Study Area.

Constituent concentrations in the intermediate portion of the overburden aquifer are generally the highest observed in the RI Study Area, consistent with this zone containing the most widespread presence of NAPL. Dissolved BTEX and PAHs were highest at on-Site wells and decreasing in the direction of groundwater flow at adjacent locations in the RI Study Area. No PCBs were detected in groundwater from any of the wells sampled. Given the trends observed in the data, dissolved phase concentrations of these constituents will decrease further at locations outside of the RI Study area due to biodegradation, attenuation, and dilution. Non-MGP related constituents such as chlorinated volatile organic compounds (cVOCs) are also present in groundwater beneath the RI Study Area.

Dissolved phase impacts in the deepest portion of the overburden aquifer above the Gardiners Clay are lower in concentration and generally consistent laterally with the overlying intermediate zone. As indicated previously, source material in the RI Study Area may originate from a number of sources with similar characteristics. As a result, the dissolved phase impacts may be associated with commingled sources. The potential for commingled impacts is supported by the presence of constituents, such as chlorinated solvents, which were not in use during the period of operation of the MGP.

Qualitative Human Health Exposure Assessment

The results from the RI are appropriate to assess the potential for exposure to constituents present in impacted soils, groundwater, soil vapor, and indoor air. Under current conditions, complete exposure pathways for potential receptors in the RI Study Area do not exist because of the current use and activities of the properties. A potential for indoor air pathway at an on-Site location was addressed by an interim action to control a preferential pathway at a utility access structure, and constituents detected at other locations within the RI Study Area were determined to either be consistent with ambient background or not attributed to vapor intrusion. Shallow soils containing visible source material were also removed from the Site under an Interim Remedial Measure (IRM) completed in September 2012.

Future construction workers who perform excavation work in areas on or adjacent to the Site may potentially be exposed to impacts in subsurface soil and groundwater. Note that New York City provides potable water to Brooklyn, and potential exposure related to the consumption of groundwater is not a concern. The potential construction worker pathway on-site is currently addressed by an Interim Site Management Plan that prohibits subsurface work without the use of OSHA-trained personnel, a site-specific HASP, and coordination with National Grid's SIR Department.

Fish and Wildlife Resources Impact Analysis

An assessment of Site conditions against the Fish and Wildlife Resources Impact Analysis (FWRIA) Decision Key determined that an FWRIA was not required.

Conclusions

The objectives of the RI have been fulfilled and the nature and extent of environmental impacts at the RI Study Area have been adequately defined. The extent of NAPL is defined vertically and horizontally

within the RI Study Area. The RI demonstrated that there is no migration of NAPL beyond the RI Study Area. Where present at one boring on the eastern edge of the RI Study Area, the NAPL was documented in a residual state and not mobile. NAPL is largely contained within the Site itself by the topography of the various subsurface low permeability confining layers. National Grid is currently conducting an IRM to recover NAPL from recovery wells screened at and above the intermediate clay layer beneath the Site. The NAPL above the intermediate clay layer and other depths was determined to be stable prior to implementation of the IRM as evidenced by the documented decrease in NAPL impacts away from source areas showing a progressive change from NAPL saturation to NAPL coating to staining and odors and at distal areas within the RI Study Area. The extent of subsurface soil impacts primarily associated with BTEX and PAHs, are also generally delineated within these same areas.

Dissolved phase groundwater impacts, including BTEX and a limited set of PAHs are characterized within the RI Study Area and concentrations are lower at downgradient wells compared to the Site. The dissolved-phase impacts are the result of a number of factors including geologic conditions, groundwater flow patterns, and the presence of source material in soil. The source material in the RI Study Area may originate from a number of sources with similar characteristics. As a result, the dissolved phase impacts may be associated with commingled sources. Given the trends observed in the data, the dissolved phase concentrations of these constituents will decrease further at locations outside of the RI Study area due to biodegradation, attenuation, and dilution.

Complete exposure pathways have not been identified for potential receptors in the RI Study Area given the current use of the properties. Potable water in the RI Study Area is provided by the City of New York, and areas containing environmental impacts are covered by asphalt or developed property and therefore do not pose an immediate risk to receptors. However, future construction workers who may perform excavation work in areas on or adjacent to the Site may potentially be exposed to impacts in subsurface soil and groundwater. The potential construction worker pathway on-site is addressed by an Interim Site Management Plan that prohibits subsurface work without the use of OSHA-trained personnel, a site-specific HASP, and coordination with National Grid’s SIR Department.

1.0 Introduction

On behalf of the Brooklyn Union Gas Company (BUG) (dba National Grid NY), AECOM Environment (AECOM) has conducted a Remedial Investigation (RI) of the former Equity Works manufactured gas plant (MGP) Site (the Site), and prepared this RI Report to present the results. The former MGP was located at 222-254 Maspeth Avenue in Brooklyn, Kings County, New York (Figure 1-1). The area comprising the footprint of the historic MGP evaluated during this RI is defined as the "Site." Collectively, the Site and other off-Site areas investigated as part of the RI are referred to as the "RI Study Area."

The MGP facility was constructed in 1892 by the Equity Gas Works Construction Company. The MGP facility was acquired by BUG, a predecessor company to National Grid, in approximately 1903, operated until 1929, and was decommissioned by 1933 with all plant structures removed with the exception of former purifying house and generator house buildings that were listed as vacant on the 1933 Sanborn map. The entire Site is now owned by third parties: 222 Maspeth Avenue is owned by 222 Maspeth Avenue Inc., 252 Maspeth Avenue is owned by 252 Maspeth Avenue LLC, and 254 Maspeth Avenue is owned by 254 Maspeth Avenue LLC. The Site currently houses a waste recycling facility and associated vehicle and equipment storage operated by Cooper Tank Recycling, with primary activities occurring at the 222 Maspeth Avenue parcel. The RI Study Area is located in a highly industrialized area of Brooklyn. The historic and current manufacturing and industrial operations results in a complex nature of environmental impacts to soil and groundwater.

The RI was performed pursuant to a Multi-Site Order on Consent and Administrative Settlement, Index #A2-0552-0606, executed on February 22, 2007 and modified on August 10, 2007, between The Brooklyn Union Gas Company (now d/b/a National Grid NY) and the New York State Department of Environmental Conservation (NYSDEC). The field investigation was designed to identify sources of environmental impacts, delineate the associated extent of impacts, determine the surface and subsurface conditions of the RI Study Area, and evaluate potential off-Site migration pathways, potential off-Site contributions to the RI Study Area, and human receptors in the RI Study Area.

The fieldwork for the RI was performed in accordance with NYSDEC oversight using procedures described in the NYSDEC-approved *Remedial Investigation Work Plan, Equity Former MGP Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606* (RIWP) dated July 2009 (AECOM, 2009). Four companion documents were prepared to detail additional procedures and protocols for the RI and were included as Appendices C through F to the RIWP. Appendix C, Field Sampling and Analytical Plan (FSAP), specified the field sampling procedures. Appendix D, Quality Assurance Project Plan (QAPP), specified the field and laboratory quality assurance/quality control procedures. Appendix E, Community Air Monitoring Plan (CAMP), provided procedures to be used for the monitoring of potential fugitive emissions generated during the invasive sampling tasks conducted during the investigation. Appendix F, Site-Specific Health and Safety Plan (HASP), was developed to provide information and procedures to protect AECOM personnel and to make other on-Site personnel aware of known or suspected health and safety hazards.

There were four RIWP Addenda (No. 1 through No. 4) that were generated to investigate the subsurface conditions within the RI Study Area. These addenda are:

- Remedial Investigation Work Plan Addendum (No. 1) – to further delineate environmental impacts identified during the initial RI work (National Grid, 2011b)
- Remedial Investigation Work Plan Addendum (No. 2) – to further delineate environmental impacts off-Site to the north and east, and advance of a deep soil boring to identify the elevation of the Jameco Gravel and assess potential impacts (National Grid, 2012a)
- Remedial Investigation Work Plan Addendum (No. 2) Modification – to further delineate the downgradient extent of dissolved phase constituents to the east of the Site (National Grid, 2013a)
- Remedial Investigation Work Plan Addendum (No. 3) – to investigate former tidal channels at the 300 Maspeth Avenue property and determine the presence or absence of environmental impacts (National Grid, 2013b)
- Remedial Investigation Work Plan Addendum (No. 4) – to investigate subsurface conditions to the south of the Site beneath current buildings located at 1 and 7-9 Rewe Street (National Grid, 2015)

In addition, two Pre-Design Investigations (PDIs) were conducted in the RI Study Area that provided additional data that is used in this RI Report:

- PDI Work Plan for Shallow Soil Removal – to delineate the extent of visually contaminated soils on the 254 Maspeth Ave parcel and pre-characterize soil for disposal options ahead of earth work planned by the property owner; addendum to work plan added test pits on 252 Maspeth Ave parcel (National Grid, 2011a; National Grid, 2011c).
- PDI Work Plan for Potential Barrier Wall Design – to gather geotechnical information for design of a possible barrier wall at the 252-254 Maspeth Ave parcels; addendum to work plan added installation of wells to evaluate potential for NAPL recovery (National Grid, 2012b; National Grid, 2012c).

1.1 Remediation Investigation Objectives

Based on the operational history of the former Equity Works MGP facility between approximately 1892 and 1929, the objectives of the RI were to:

- Evaluate the nature and extent of environmental impacts in the RI Study Area in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010). Specifically, develop the conceptual site model (CSM) that explains the nature and extent and assesses the potential risk to human or ecological receptors from potential impacts.
- Perform a vapor intrusion study in accordance with New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006).
- Conduct a Qualitative Human Health Exposure Assessment (QHHEA).
- Develop the dataset necessary to allow preparation of a Feasibility Study (FS) to evaluate remedial alternatives that will reduce and/or eliminate routes of exposure and the threat to public health or the environment posed by impacts associated with the Site. The Feasibility Study shall be prepared in a manner consistent with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010).

1.2 Scope of Work

The scope of work for the RI, as defined in the NYSDEC-approved Work Plans, RI Addendums, and subsequent correspondence, includes:

- Pre-investigation coordination/meetings to facilitate implementation of the RI
- Locating underground utilities in the investigation areas
- Community air monitoring during invasive drilling and test pitting activities
- Surface soil sampling and analysis
- Advancement of soil borings and collection of subsurface soil samples for analysis
- Advancement of test pits and collection of subsurface soil samples for analysis
- Monitoring well installation and development
- Groundwater sampling
- Aquifer slug testing at select well locations
- Groundwater elevation gauging and tidal monitoring during various tidal cycles within the nearby English Kills tributary of Newtown Creek
- Performance of a vapor intrusion study at two buildings located within the Site and three buildings adjacent to the Site to the south
- Surveying of all new sampling points, wells, and borings
- Investigation residuals management

The data presented in this RI Report were collected over several mobilizations performed during:

- September through December 2009 – Completed initial RI scope of work
- March and August 2010, February 2011 – Completed additional vapor intrusion sampling at 222 and 252 Maspeth Ave
- September through November 2011– Completed RI Addendum No. 1 scope of work and PDI for Shallow Soil Removal
- July through August 2012 – Started RI Addendum No. 2 scope of work and PDI for Potential Barrier Wall Design
- January through February 2013 - Completed RI Addendum No. 2 scope of work
- May 2014 and October 2014 - Completed RI Addendum No. 3 scope of work
- March through May 2015 - Completed RI Addendum No. 4 scope of work

1.3 Report Organization

This RI Report is organized into nine sections following this introduction.

- Section 2 describes the RI Study Area and adjacent areas, and presents historical ownership and operational summary information.

- Section 3 describes the National Grid field investigation activities performed in the RI Study Area.
- Section 4 summarizes information regarding the RI Study Area topography, geology, hydrogeology, and the observed extent environmental impacts.
- Section 5 summarizes the results of the laboratory analyses for environmental media sampled during the investigation.
- Section 6 provides a summary of the fate and transport of visible and analytical impacts in the RI Study Area.
- Section 7 summarized remedial work already completed in the RI Study Area.
- Section 8 presents a qualitative human health exposure assessment for the RI Study Area.
- Section 9 presents an evaluation of potential impacts to fish and wildlife resources in the RI study area.
- Section 10 presents the conceptual site model.
- Section 11 presents a summary and conclusion related to the RI work.
- Section 12 presents recommendations for additional actions.
- Section 13 provides a list of references cited in this report.

Tables and figures are included in sections that immediately follow the report text.

Appendices to this RI Report include the following:

- Appendix A Historical Atlas Reports for the City of Brooklyn from 1886 to present
- Appendix B Summary of Historical Data - Includes a summary of documents reviewed (Table B-1), Sanborn maps, previous soil boring and monitoring well logs, historical Brooklyn Union Gas Company (BUG) drawings, historical Site photographs, historical newspaper articles.
- Appendix C Dust Suppression Well Information
- Appendix D Soil Boring Logs and Well Construction Logs (Current and Historical)
- Appendix E Test Pit Excavation Logs
- Appendix F Well Development Logs
- Appendix G Groundwater Collection Records
- Appendix H Slug Testing Data Analysis
- Appendix I Community Air Monitoring Program Records
- Appendix J Indoor Air Survey Forms
- Appendix K NYSDEC Analytical Services Protocol Category B Deliverable Data (CD-ROM)
- Appendix L Data Usability Summary Reports (CD-ROM)
- Appendix M Photo Log of Floor Slab Penetration Caulking Work, Cooper Tank Locker Room Area
- Appendix N IRM Completion Reports (CD-ROM)

2.0 RI Study Area Description and History

This section presents a description of the RI Study Area, information regarding Site ownership and operational history, and the results of previous investigations and remedial work performed. A summary of the documents reviewed, including historical photographs, historical topographic maps, historical drawings, Sanborn maps, and aerial photographs for these and other local properties, is provided in Table 2-1.

2.1 Site Description

The former Equity Works MGP facility was historically located at 222 – 254 Maspeth Avenue, Brooklyn, Kings County, New York 11211, northwest of the English Kills tributary of Newtown Creek, between Grand Street and the Brooklyn Queens Expressway (Highway 278). Figure 2-1 shows the Site location and surrounding properties. Current zoning and land use at the Site is heavy manufacturing, with the entire Site being occupied by Cooper Tank Recycling Company. Current operations at the Site include recycling and sorting of building materials. Current zoning and land use in areas adjacent to the Site include a mixture of commercial and industrial uses (see Figure 2-2). The Site is comprised of the following three parcels of land:

Block/Lot Number	Owner's Name and Address	Operator's Name and Address	Status
Block 2927 Lot 44	222 Maspeth Avenue Inc.	222 Maspeth Avenue Brooklyn, NY 11215	Lot used as an active waste recycling/ waste transfer station. Currently one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations are present on the lot. The lot is operated by Cooper Tank Recycling Co.
Block 2927 Lot 54	252 Maspeth Avenue LLC	252 Maspeth Avenue Brooklyn, NY 11215	Currently one building is located on the lot (approximately 2,500 square feet [ft]). Used as a maintenance center for equipment. Currently leased by Cooper Tank Recycling Co.
Block 2927 Lot 57	254 Maspeth Ave, LLC	254 Maspeth Avenue Brooklyn, NY 11215	Currently a parking area with truck scales used for occasional storage of empty roll-offs and vehicle parking for Cooper Tank personnel working at 222 Maspeth Avenue.

Figures 2-1 and 2-2 provide maps showing the locations of the parcels listed above and showing adjacent parcels in the Site area.

As demonstrated by the following discussions of historic and current site use of properties within the RI Study area, many of the industrial operations used feedstocks or managed products that are similar to those generally associated with the MGP process. As a result, these non-MGP operations may be associated with environmental impacts that have characteristics that are similar in nature and

composition to by- products from MGP sites. The potential commingling of environmental impacts from these non-MGP operations such as staining, sheen and NAPL may complicate the determination of a definitive source of impacts in some portions of the RI Study Area.

2.2 Adjacent/Off-Site Properties

Currently, the Site is bounded by the following industrial or commercial facilities/areas.

- To the north - Maspeth Avenue and other National Grid properties (the Gate Station at 285 Maspeth Ave. and the Greenpoint Energy Center at 287 Maspeth Ave.) that were part of a separate former MGP.
- To the south – Industrial/commercial properties abuts the Site at 1 Rewe Street and 7-9 Rewe Street. They have been occupied by a relatively consistent set of businesses, including a paper company and warehouse since approximately 1965.
- To the east – A Federal Express (FedEx) truck terminal and parking lot at 300 Maspeth Avenue that has been operated by various parties since the mid-1960's.
- To the west – A portion of the 1 Rewe Street building and Vandervoort Ave borders the Site to the west. A consistent set of businesses have occupied the adjacent properties to the west across Vandervoort Ave., including the Brooklyn Truck Wash facility located at 184 Maspeth Avenue.

The locations of these properties are also generally illustrated on Figure 2-1, with a summary of their historical use presented in Table 2-2. A summary of environmental database search records for the properties/areas adjacent to the Site is presented in Table 2-3. As indicated, significant off-Site impacts identified to date with the potential to affect the Site include petroleum releases at the truck terminal (to the east) and oil that has been observed on several occasions in the streets to the west of the Site in the area of the Vandervoort and Maspeth Avenue intersection. In May 2007, when replacing utility poles in the intersection of Maspeth and Vandervoort Avenues, oil was reported to be found in the soil, but no source was identified (Spill No. 0701343, DEC memo 205635, closed June 28, 2007; and Spill No. 0701344, DEC memo 205638, closed June 28, 2007). In August 2007, a sheen was observed bubbling from the bottom of an excavation at this intersection (Spill No. 0705958; DEC memo 207726, closed November 17, 2008).

2.3 Current Site Topography and Drainage

The ground surface in the area of the former MGP operations is approximately 14 ft above mean sea level. The topography at the Site and in the RI Study Area is level. The English Kills tributary of Newtown Creek is located approximately 700 ft southeast of the Site. Surface drainage generally follows surface topography, and is managed through an on-Site storm water drainage system that drains to Maspeth Avenue. Within the 222 Maspeth Avenue parcel and the 254 Maspeth Avenue parcels, the ground surface is covered with up to one foot of concrete to limit surface water infiltration and facilitate work activities (better traction and ability to scrape waste debris). The ground surface at the 252 Maspeth Avenue parcel is mixture of concrete and compacted soil/stone.

2.4 Regional Geology and Hydrogeology

According to P.E. Misut and Jack Monti Jr.'s, 1999 article, "Simulation of ground-water flow and pumpage in Kings and Queens Counties, Long Island, New York," in the U.S. Geological Survey Water-Resources Investigations Report 98-4071, the bedrock throughout the region consists of

undifferentiated gneiss, schist, and pegmatite. The crystalline bedrock exhibits a soft, clayey, weathered zone up to 100 ft thick. The bedrock is relatively impermeable, with water transmitted along faults and fractures.

According to Herbert Buxton and Peter K. Shernoff's 1999 article, "Ground-Water Resources of Kings and Queens Counties, Long Island, New York," United States Geological Survey, Water Supply Paper 2498, the Lloyd Sand Member of the Raritan Formation, which acts as an aquifer, overlies bedrock beneath the RI Study Area and consists mainly of deltaic deposits of fine to coarse quartzose sand interbedded with gravel, clay and silt. The unit ranges from 0-300 ft thick and from 90-825 ft below sea level. The Lloyd Sand Member yields up to 2000 gpm (gallons per minute) in some wells. Specific capacities are as high as 44 gpm per foot of drawdown. Water within the aquifer is often under artesian pressure and the horizontal hydraulic conductivity is reported to be in the range of 33-75 ft/d (ft per day) (Misut and Monti, 1999).

The Clay Member of the Raritan Formation, which acts as a confining unit, overlies the Lloyd Sand Member and consists of gray, white, red or purple deltaic clay and silty clay and some interbedded layers of sand and gravel. The unit ranges from 0-200 ft thick and from 30-650 ft below sea level (Buxton and Shernoff, 1999). The Clay Member is an impermeable confining unit. Local lenses and layers of sand and gravel with moderate to high permeability are encountered in some areas. The vertical hydraulic conductivity is 0.001 ft/d (Misut and Monti, 1999).

The Jameco Gravel, which acts as an aquifer, overlies the Clay Member of the Raritan Formation and consists of coarse sand and gravel with some cobbles and boulders consisting of dark brown and dark gray igneous, metamorphic, and sedimentary rocks. The n it ranges from 0-200 ft thick and from 90-240 ft below sea level (Buxton and Shernoff, 1999). The Jameco Gravel is highly permeable and may yield as much as 1500 gpm. Specific capacities are as high as 135 gpm per foot of drawdown. Water is often under artesian pressure and the horizontal hydraulic conductivity is reported to be in the range of 200-300 ft/d (ft per day) (Misut and Monti, 1999).

The Gardiner's Clay, which acts as a confining unit, overlies the Jameco Gravel and is comprised of a greenish-gray clay and silt with some interbedded sand and gravel. The unit ranges from 0-150 ft thick and from 40-200 ft below sea level (Buxton and Shernoff, 1999). The Gardiner's Clay is the principal confining unit in the region. Locally, the Gardiner's Clay may contain moderately to highly permeable sand and gravel lenses. The vertical hydraulic conductivity ranges from 0.001-0.0029 ft/d (Misut and Monti, 1999).

The Upper Pleistocene glacial deposits, which overlie the Gardiner's Clay and act as an aquifer, include terminal moraine deposits, ground moraine deposits, and glacial outwash deposits consisting of clay, sand, gravel and boulders. The unit ranges from 0-300 ft thick (Buxton and Shernoff, 1999). The hydrogeologic properties of the Upper Pleistocene glacial deposits (upper glacial aquifer) are highly variable. The till is poorly permeable, the sand and gravel part of the outwash is highly permeable. Yields of individual wells are as much as 1,700 gpm. Specific capacities of wells are as much as 109 gpm per foot of drawdown and the horizontal hydraulic conductivity ranges from 20-80 ft/d in the moraines to 200-300 ft/d in the outwash (Misut and Monti, 1999).

The recent Holocene deposits are grouped with the upper glacial aquifer and consist of tan to white beach sand and gravel, dune sand and gray bay bottom silt and clay deposits. The beach and dune deposits are well stratified and well sorted. The recent deposits also contain fill made up of earth, rocks, concrete fragments, ash, rubbish and hydraulic fill (Misut and Monti, 1999). The sandy beds of

the Holocene deposits have moderate to high permeability beneath barrier beaches (Misut and Monti, 1999).

2.5 Pre-MGP Site History

A 1776 survey of Newtown Creek shows that the area surrounding the creek was a mixture of tidal channels and marshland that extended to the west to approximately the current location of Vandervoort Avenue prior to development of the RI Study Area. A figure showing the area of the former MGP prior to development is shown on Figure 2-3. Prior to the mid-1800s, the creek and its tributaries were used for agriculture and commerce transport. In 1854, the country's first kerosene refinery was constructed along Newtown Creek and by 1870 over 50 petroleum refineries were located along the creek (NYSDEC, http://nysdecgreenpoint.com/ProjectHistory.aspx). By the 1880s the Creek and its tributaries were constructed to their current configuration. In circa 1880 to 1900, channel improvements and land side improvements supported an expansion of industrialization along the Creek and by 1900 most of Newtown Creek contained bulkheads (NYSDOT, 2005).

Historical Atlas Reports for the City of Brooklyn were also reviewed from 1886 prior to MGP construction. Businesses that were in operation close to or adjacent to the Site prior to the operation of the MGP included the Lawrence Rope Works that formerly included a tar house in the location of the current Brooklyn Truck Wash property (184 Maspeth Avenue) that operated from 1886-1893 and the Bushwick Chemical Works, located at the intersection of Vandervoort Avenue and Metropolitan Avenues, that operated from 1886-1899 (Appendix A).

2.6 MGP Site History

The following sections summarize the Site history and usage based on a review of Sanborn maps covering a 107 year period from 1888 through 1995, aerial photographs, historical survey maps, historical BUG drawings, and historical photographs. A summary of the historical information is provided in Table 2-4.

A review of the Site history has been developed based on a review of the historic Sanborn Fire Insurance maps, aerial photographs for the Site as well as other available information including internal BUG plant facility plans and municipal records. A copy of the maps and aerial photos is included in Appendix B, with a summary of the pertinent historical information for the property provided in Table 2-4. Figure 2-4 shows the locations of former MGP structures and other historical Site features.

The MGP facility was constructed in 1892 by the Equity Gas Works Construction Company. It operated from 1893 to 1929. BUG acquired the MGP in approximately 1903. The MGP is first evident on 1903 and 1905 BUG facility maps with gas generation, gas storage (430,000 cu. ft relief holder), and cleaning (purifier house) equipment/processes in place. Support facilities included coal storage/delivery facilities and miscellaneous tar and oil storage capacity, including tar wells, tar separators, drip tanks, and gas oil tanks.

The 1907 Sanborn map shows a consistent, although slightly more extensive, plant layout. The plant appears to be developed to its maximum extent on a 1921 BUG facility plan, although largely maintaining the layout shown on the earlier 1903 and 1905 plans. A 1932 BUG plan indicates that the relief holder was partially decommissioned and the 1933 Sanborn map shows that the gas manufacturing equipment had been removed with the former purifying house and generator house

buildings present but vacant. The 1951 Sanborn shows the lot being owned by BUG and is vacant with the exception of two small buildings near the southern edge of the Site.

Historical Atlas Reports for the City of Brooklyn were also reviewed during the time period when the MGP operated. Businesses that were in operation close to or adjacent to the Site during the operation of the MGP included the Chapman Docks/Marvel Oil Company (1929) located at the current 300 Maspeth Avenue parcel and the former Department of Sewers (1921-1968), Standard Rope & Twine Company (1899-1916), and the Banner Silk Dying Company (1929) all located at the current 184 Maspeth Avenue address (Appendix A). Chapman Docks/Marvel Oil Company, Standard Rope & Twine Company, and the Banner Silk Dying Company all likely used petroleum and the Standard Rope & Twine Company and the Banner Silk Dying Company likely used solvents and dyes in addition to petroleum. Additional information regarding the historical property usage at the 300 Maspeth Avenue property is provided in Section 2.8 below.

2.7 Post MGP Site History

According to internal notes written on a BUG facility plan, BUG maintained ownership of the property until September of 1951. Subsequently, the Site was used by unknown parties for storage (pipe and valves) for the period of 1965 to 1981, and appears to be vacant during the period of 1986 to 1988. The Site has been used as a solid waste transfer facility from 1989 to the present under the ownership of various parties (EDR, 2008a and 2008b,).

Historical Atlas Reports for the City of Brooklyn were also reviewed for the time period following MGP operation (Appendix A). Businesses that were in operation on the Site or in close proximity or adjacent to the Site following cessation of MGP operations included the former Fontana Transfer Station (2005) located on-Site at 254 Maspeth Avenue, The Newtown Creek Development Corporation/Salwen Paper Company, Inc. (1965-2003) located at 1 Rewe Street, Rockower-Sigawel Associates (2005) located at 1 Rewe Street, The Newtown Creek Development Corporation/Lack Carpet Company (1965-1982) located at 7-9 Rewe Street, The Chapman Docks Company/Crandall Oil & Putty Manufacturing Company (1929-1951) located at 7-9 Rewe Street and 300 Maspeth Avenue, The Chapman Docks Company/Unknown Oil Storage (1951) located at 7-9 Rewe Street and 300 Maspeth Avenue, The Lignum Chemical Works (1933) located along Vandervoort Avenue west of the Site, The Brooklyn Truck Wash (2001 to present) located at 184 Maspeth Avenue, The Royal Yarn Dying Corporation (1951-1994) located along Vandervoort Avenue west of the Site, and The Vander Dyeing & Finishing Corporation (2005) located along Vandervoort Avenue west of the Site (Appendix A). These properties all had or have the potential to use or store petroleum, solvents, dyes, PCBs, and other unknown chemicals. Additional information regarding the historical property usage at the 300 Maspeth Avenue and 7-9 Rewe Street properties is provided in Section 2.8 below.

2.7.1 Dust Suppression Well, DEC Letter and Shut down

To support the recycling operation and control the generation and off-Site wind transport of dust, the current property owner Cooper Tank and Welding Corp. (Cooper Tank) requires a dust suppression system along the top of the perimeter walls, and hoses to rinse mud and debris off vehicles before leaving their 222 Maspeth Avenue facility. In May 2003, they contracted a licensed New York well driller to install a water production well at 222 Maspeth Avenue. The well is located on the northern side of the parcel next to the main office building. The location of the well (designated PW-1 in the figures and K3504 on the Completion Report) is shown on Figure 2-4. A copy of the Completion Report – Long Island Well form and location sketch submitted to the New York Department of Environmental Conservation as a Certificate of Registration is included in Appendix C. The pumping

capacity of the well was listed as less than 45 gallons per minute, and pursuant to Environmental Conservation Law Sections 15-1501 and 15-1503 a Long Island Well Permit was not required. Since the well was not installed for drinking water, a Type 33 Use of Well Water for Other than Drinking Purposes Permit was filed with the New York City Department of Health and Mental Hygiene (NYCDHMH) under Article 141 of the New York City Health Code. A copy of the 2009 permit renewal is included in Appendix C. Requirements of the permit included the analyses for bacteria and the inspection of the well by a NYCDHMH field representative.

On December 16, 2009, AECOM sampled this well for chemical analysis, and VOCs, SVOCs, and various metals were detected. On January 10, 2010, AECOM measured 4.8 ft of a denser than water non-aqueous phase liquid (DNAPL) in the well. The measurements and observations were provided to NYSDOH. The well log included in the Completion Report does not include observations of DNAPL during drilling, and VOC and SVOC analyses were not required by the Type 33 Permit. In a letter between the NYSDOH and Henry Willems of the NYSDEC dated January 20, 2010, Albert DeMarco, Public Health Specialist, recommended that the well not be used for any purpose. The May 20, 2010 letter between Gannett Fleming Engineers, P.C. (GFE) and the IPP Inspection and Permit Section of the Bureau of Wastewater Treatment confirmed that Cooper Tank discontinued the use of the water well in January 2010 (please note the three stage carbon treatment system outlined in this letter was not installed). These letters are included in Appendix C. As a result of this work, the submersible pump and piping was removed from PW-1 but the well was not formally abandoned. Cooper Tank currently uses city water for dust suppression and vehicle washing operations.

2.8 Historic Land Use at Adjacent Properties

2.8.1 FedEx (300 Maspeth Avenue)

The property is located adjacent to the northeastern Site boundary and is occupied by FedEx (Figure 2-1). The approximately 5.4 acre property extends north to south from Maspeth Avenue to Rewe Street. The first known operations on the property were present in 1907, and consisted of a foundry supply company and storage buildings on the southern side of the property. The northern side consisted of marsh and drainage canals, which were progressively filled until full property occupancy in 1965. Operations are detailed in the table below, and include coal yards, lumber yards, oil handling, oil and putty manufacturing, fuel oil storage and truck filling, and motor freight with truck servicing.

Approximate Timeframe	Location on the Property	Company Name	Operations
Pre-1900 – 1965	Northern Half	Not Applicable	Marsh, Drainage, Canals, Empty Lot
1907	Southwest	Stanley Dogget	Foundry Supplies
1907	Southeast	J. P. Duffy Co.	Storage
1929	Southwest	The Chapman Docks Co./ Marvel Oil Corp.	Unknown
1929-1951	Southwest	The Chapman Docks Co./ E.V. Crandall Oil & Putty Mfg Co.	Oil & Putty Manufacturing
1929-1951	Southeast	The Chapman Docks Co./ The Hobin Hunter Feitner Lumber Co.	Lumber Yard
1947 – 1956	Southwest	The Chapman Docks Co./ Unknown	Fuel Oil Tanks & Truck Filling
1951	Southeast	The Chapman Docks Co./ Unknown	Lumber Yard

Approximate Timeframe	Location on the Property	Company Name	Operations
1951	Southeast	The Chapman Docks Co./ A.G. Feldman	Coal Yard
1965-1990	Entire Property	Newtown Creek Development Corp./ Branch Motor Express Inc.	Truck Service, Motor Freight Station
1991-1994	Entire Property	Newtown Creek Development Corp./ Roadway Package System Co.	Truck Service, Motor Freight Station
2001-2015	Entire Property	Newtown Creek Development Corp./ FedEx	Truck Service, Motor Freight Station

Six 10,000 gallon underground storage tanks (USTs) for gasoline are identified aligned north to south in between the former Marvel Oil Corporation office building and the E.V. Crandall Oil and Putty building on the 1951 Sanborn. It is presumed that these USTs were removed when the property was developed for the motor freight business in 1965. From approximately 1947 to 1956, a small portion of fuel oil storage complex, consisting of six 99,560 gallon above ground fuel oil tanks surrounded by a 10-foot high concrete wall, was present along the western boundary of the property and extended onto what is now 7-9 Rewe Street (Figure 2-5). Although the owner/operator of the complex is not identified, the location of the tanks is adjacent to and appears to be connected to structures identified as the Marvel Oil Corp on the 1929 Atlas (Appendix A). E.V. Crandall is another possible operator of the complex based on the proximity, configuration, and lack of any other identified operators on the 1951 Sanborn and 1954 aerial photograph.

2.8.2 Greenpoint Energy Center

National Grid's Greenpoint Energy Center Site is located north of and adjacent to the Site. The center is currently a liquefied natural gas (LNG) facility. Various portions of the facility have been used for industrial purposes throughout a history dating to at least 1838 and included the following operations outlined on the table below.

Approximate Timeframe	Operations
1838 – 1915	Peter Cooper Glue Factory
1870 - c 1907	Demuth Glass Manufacturing Company
1927 – 1952	MGP Water Gas Plant
1928 – 1952	Coke Oven Gas Plant
1952	Water Gas Plant converted to Oil Gas; Coke Ovens decommissioned
1968 – Present	LNG facility
1973 – 1989	SNG Plant

The facility is divided internally into two major operational areas: the LNG facility occupying the general northern half of the site, and gas transmission and operations support facilities in the southern half of the site. The entire property is fenced along its perimeter with the LNG facility fenced internally,

separating it from the operations area. The Greenpoint Energy Center operates 24-hours per day with full-time site-wide security.

2.8.3 7-9 Rewe Street and Fuel Oil Bulk Storage Facility

The 7-9 Rewe Street property is approximately 2.4 acres in size and is located to the south of 252 and 254 Maspeth Avenue and west of 300 Maspeth Avenue. The first known operations on the property were present in 1907, and consisted of an elevated coal car trestle electric trolley system running through the center of the parcel from northwest to southeast between the Equity MGP, the English Kills tributary of Newtown Creek, and the A. Busch & Sons – Bushwick Coal Yard. Prior to these operations, the area was a marsh with drainage running to the south to the English Kills tributary of Newtown Creek. Operations are detailed in the table below, and include the elevated trestle, storage for building materials, fuel oil storage and truck filling, carpet handling, material recycling, and industrial manufacturing and shipping.

Approximate Timeframe	Company Name	Operations
1907-1924	Unknown	Elevated Coal Car Trestle Electric Trolley System
1924 -1947	Chapman Dock Company	Building Materials storage, Out of Service Elevated Coal Car Trestle Electric Trolley System
1947 – 1956	The Chapman Docks Co./ Unknown	Fuel Oil Tanks & Truck Filling
1956-1982	Unknown	Unknown
1965-1982	Newtown Creek Development Corp./ Lack Carpet Co. Inc.	Carpet Handling
1986-1990	Newtown Creek Development Corp./ Boro Recycling	Material Recycling
1991-2007	Newtown Creek Development Corp./ Global Moving & Storage	Industrial/ Manufacturing (Shipping Warehouse) (UST)

As discussed in Section 2.8.1, a fuel oil storage complex, consisting of six 99,560 gallon above ground fuel oil tanks surrounded by a 10 foot high concrete wall was present on the 7-9 Rewe Street property from approximately 1947 to 1956. A small portion of the complex extended onto 300 Maspeth Avenue where it is adjacent to and appears to be connected to structures identified as the Marvel Oil Corp on the 1929 Atlas. E.V. Crandall is another possible operator of the complex based on the proximity, configuration, and lack of any other identified operators on the 1951 Sanborn and 1954 aerial photograph.

2.9 Potential Source Areas for Environmental Impacts

Structures associated with the Equity former MGP are shown on Figure 2-4, and included the No. 1 Relief Holder, tar tanks, drip tanks, separators, pump houses, tar wells, purifier house, generator and boiler rooms/houses, condensers, exhausters, coal storage and elevated coal car trolley, oil storage tanks, offices and sheds. Specific structures that present potential source areas for environmental impacts at the Site include:

Structure	Location
Holder No. 1 430,000 cu ft Relief Holder/Gas Holder	222 Maspeth Ave
Relief Holder/Tar Tank/Settling Tank	222 Maspeth Ave
Fuel Oil/Tar Tank	222 Maspeth Ave
Drip Tanks	222 Maspeth Ave
Separator	252 Maspeth Ave
Separator	254 Maspeth Ave
Oil House/Oil Storage Tanks No. 1 and No. 2	254 Maspeth Ave
No. 3 Oil Storage Tank	254 Maspeth Ave

The No. 1 Relief Holder was observed in borings SB-8 and SB-13, and the Oil Storage Tank No. 2 was observed in Test Pit TP-2.

2.10 Previous and Concurrent Investigations

2.10.1 Geotechnical Investigations by Cooper Tank

Previous investigation activities were conducted on portions of the Site in 2004 and 2005 by the current Site owner, as listed below:

- For the 252 Maspeth Avenue property, a Phase II Environmental Subsurface Investigation (ESI) was conducted in March 2005 by GFE on behalf of Cooper Tank, who was the potential lessee of the property (GFE, 2005a). GFE installed four soil borings on the property and collected soil samples which were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and 13 Priority Pollutant Metals plus barium. Temporary PVC wells were installed in two of the borings (B-1 and B-4), and groundwater samples were collected and analyzed for the same constituents as the soil samples. In soils, VOCs, SVOCs, and various metals were detected in samples from all four borings. PCBs were detected in only one soil sample. Odors and staining were observed in all four borings. In groundwater, VOCs, SVOCs and various metals were detected in samples collected from both temporary wells. PCBs were detected in one groundwater grab sample, but the detection is likely turbidity related given the relative insolubility of PCBs in water.
- For the 254 Maspeth Avenue property:
  - A Phase II ESI was conducted in September 2004 by Energy & Environmental Analysts, Inc. (EEA) on behalf of Spencer Realty Corporation (the property owner) and Cooper Tank (the potential property buyer) (EEA, 2004). EEA installed 6 soil borings on the property and collected soil samples which were analyzed for VOCs, SVOCs, and RCRA metals. SVOCs and various metals were detected in all six borings. VOCs were detected in two of the borings. The subsurface geology was characterized to the completion depth of the borings.
  - A Phase I Environmental Site Assessment (ESA) was conducted in October 2004 by GFE on behalf of Cooper Tank, who was the potential buyer of the property (GFE, 2004).

GFE conducted a records search, interviews and Site visit. Surficial soil staining was observed on-Site. A Phase II investigation of potential soil and groundwater impacts was recommended.

- For the 252 and 254 Maspeth Ave properties, GFE performed geotechnical investigation work on behalf of Cooper Tank in September 2006 (GFE, 2006b). GFE installed five soil borings to investigate the geology below these properties. A report is not available, but a map and boring logs are provided in Appendix B.

These historic investigation locations are shown on Figure 2-6. A copy of each report is provided in Appendix B.

2.10.2 FedEx (300 Maspeth Ave.) Release Numbers and Investigations

Based on information collected from a Freedom of Information Law (FOIL) request on NYSDEC Spill #'s 0202804 and 0204002 at 300 Maspeth Avenue, Spill #0202804 was issued in 2002 after GFE, while working for FedEx, reported observing petroleum impacted soils during the removal of 20 USTs (550 gallon capacity each) and 900 tons of impacted soils (GFE, 2002). The work was performed from June 17 to July 3, 2002 along the northeast property boundary of 300 Maspeth Avenue. Additional soil was removed in November 2002 after GFE advanced 12 soil borings in a 25 foot grid to delineate impacts to the north of the original UST excavation (see Figure 2-7). GFE completed this work under contract with FedEx. On January 8, 2003, GFE uncovered a 500-gallon UST located in the northeast corner of the property, removed residual oil sludge in the tank, and removed the tank for disposal.

Spill #0204002 was issued on July 17, 2002 when "black stained soils exhibiting a strong petroleum odor" were observed by GFE during the removal of concrete for underpinning for a new foundation for FedEx. On August 2, 2002, GFE excavated six test pits to approximately 9 ft bgs (1 ft into the water table) to delineate the extent of the impacted soils (GFE, 2002). Copies of documents related to these two spills are included in Appendix B.

In emails and letters from 2002 to 2005, GFE suggests that the impacted soils were located on the southwest portion of the RI Study Area where a former fuel oil terminal was located in 1951 and 1954. AECOM reviewed the 1907, 1933, 1951, and 1965 Sanborn and the 1954 and 1966 aerial photos (Attachment B). These documents show the location of a fuel oil terminal in 1951 and 1954. While it is unclear from the Sanborn maps who owned and operated the oil terminal (See Section 2.8), the facility was clearly not related to the operation of the MGP. The oil terminal was located approximately 160 ft south of the MGP property, and its construction post-dates the closure of the MGP operations in 1932.

On December 8 and 9, 2003, GFE installed six soil borings and wells, shown on Figure 2-7. Soil samples were collected to the water table with the interval with highest PID submitted for analyses. Wells were installed to 20 ft bgs with a 15-foot screen. Groundwater samples were collected on Jan 9, 2004, as well as Dec. 29, 2004, Feb. 24, 2005, June 6, 2005, and Sept 28, 2005. No non-aqueous phase liquid was observed in any wells.

On December 22, 2005, NYSDEC deactivated Spill #'s 020804 and 0204002 based on GFE's October 2005 Final Groundwater Report that states that the "groundwater contaminant plume is stagnant and representative of regional groundwater quality" (GFE, 2005b). On Feb 15, 2006, GFE abandoned the wells (GFE, 2006a).

Observations of soil samples collected during these investigations contained typical urban fill materials (gravel, sand, crushed concrete, brick, etc.). No impacts were noted, with the exception of black stained soils with petroleum odor. No soil descriptions were collected below the water table, encountered at about 10 ft bgs at the property. Groundwater flows to the east in the central portion of the property, and then flows north in the eastern part of the property. Constituent exceedances in groundwater follow no clear pattern, and included the BTEX compounds and some PAHs, although no exceedances were detected at MW-6 along the northern property boundary.

2.10.3 Greenpoint Energy Center Remedial Investigation

National Grid is currently conducting a Remedial Investigation (RI) of the Greenpoint Energy Center. To date, the RI has focused on areas along the bulkhead and the Maspeth Avenue corridor. Future RI work will be completed in the interior of this site. All work is being conducted under NYSDEC oversight.

2.10.4 Newtown Creek

The Newtown Creek Superfund Site is located east of the Site. English Kills, a tributary to Newtown Creek, is the closest surface water to the Site and is located approximately 700 ft south and east of the Site. Newtown Creek and its tributaries are currently being investigated by the USEPA.

3.0 Investigation Activities

This section provides a description of the activities performed during the RI and PDIs and the methods used for conducting the fieldwork at the RI Study Area. Unless otherwise noted in the following sections, the procedures used were consistent with the methods and procedures described in the NYSDEC-approved RIWP and addenda, FSAP, QAPP, HASP, and CAMP. Each field activity performed during the investigation, grouped by field task or environmental media, is described in the following sections. The RI sample locations, and the locations of the samples collected during the PDIs are shown on Figure 3-1.

3.1 Chronology of Investigations

Multiple phases of investigation activities were completed in the RI Study Area as part of the RI and as PDIs for two interim remedial measures (IRMs) conducted at the Site. This section presents a chronology of these investigation phases and IRMs and summarizes the activities conducted during each phase of work.

3.1.1 Remedial Investigation Phases

The RI activities were conducted between 2009 and 2015 in several phases. This section describes the scope of work conducted for each phase.

3.1.1.1 Remedial Investigation (2009 – 2010)

The objectives of the Remedial Investigation Work Plan (RIWP) (AECOM, 2009) were to:

- Collect additional data to more completely determine the surface and subsurface characteristics of the RI Study Area.
- Determine the nature and extent of environmental impacts in soils, soil vapor, and groundwater.
- Identify potential routes of off-Site migration of environmental impacts within the RI Study Area from Site sources.
- Perform an exposure assessment to evaluate the pathways by which human receptors (either on-Site or off-Site) may be exposed to environmental impacts.
- Further develop the dataset necessary to allow preparation of a Feasibility Study to evaluate remedies that will eliminate the potential threat to public health or the environment posed by the Site.

From September 2009 through March 2010, the following field activities were completed for the RI:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced 32 soil borings: 5 by direct push, 26 by hollow stem auger, and one by “drive and wash” methods using casing and a roller bit.

- Converted 17 borings to permanent monitoring wells:
  - Seven shallow (A) wells installed to total depths ranging from 14.5 to 17 ft bgs,
  - Seven intermediate (B) wells installed to total depths ranging from 37.5 to 46 ft bgs, and
  - Three deep (C) wells installed to total depths ranging from 79 to 81 ft bgs.
- Converted one boring to a temporary well screened from 5 to 15 ft bgs, and removed temporary well immediately after collecting a groundwater sample.
- Developed monitoring wells not sooner than 24 hours after their installation.
- Excavated two test pits at 254 Maspeth Avenue to a depth of 8 to 8.5 ft bgs, and one test pit at 252 Maspeth Avenue to a depth of 13.9 ft bgs; test pits were backfilled with native material.
- Collected four surface soil samples (0-2 inches bgs), 69 subsurface (greater than 2 inches bgs) soil samples, and 18 groundwater samples (including a sample from Cooper Tank's on-Site non-potable use well, PW-1). Collected associated quality assurance/quality control (QA/QC) samples. The samples collected are listed in Table 3-1. Submitted samples under proper chain-of-custody procedures to H2M Labs, Inc. for the analyses listed in Table 3-1.
- Collected two rounds of well gauging data for NAPL and groundwater elevations (one round while PW-1 was in operation, and one round when PW-1 had been out of service for over 72 hours).
- Performed hydraulic conductivity testing by the pneumatic slug test method at seven wells: two shallow wells, two intermediate wells, and three deep wells.
- Performed 40 hour tidal cycle monitoring at nine monitoring wells: three shallow wells, three intermediate wells, and three deep wells.
- Installed two permanent sub-slab soil vapor collection points, one at 222 Maspeth Avenue and one at 252 Maspeth Avenue, and collected two rounds of soil vapor (SV), indoor air (IA), and ambient air samples for the laboratory analyses listed on Table 3-2. Note that the RIWP called for only one round of IA/SV sampling (conducted in November 2009); however, based on the results, a second round was conducted (in March 2010) to confirm the findings. As discussed in Section 5.6 of this report, the initial two rounds of IA/SV data for the building at 222 Maspeth Ave showed elevated risk due to vapor intrusion. Subsequently, remedial work was conducted to seal off potential vapor migration pathways and two additional rounds of IA/SV sampling were conducted in August 2010 and February 2011 to confirm the effectiveness of the remedial work.
- Performed NAPL mobility testing at wells MW-3B and PW-1.
- Surveyed investigation locations (soil borings, monitoring wells, test pits, and soil vapor points) for horizontal coordinates, ground surface elevation, and top of casing elevations (monitoring wells and on-Site pumping well PW-1).

3.1.1.2 Remedial Investigation – Addendum No. 1 (2011 – 2012)

The objectives of RIWP Addendum No. 1 (National Grid, 2011b) were to:

- Evaluate the presence and condition of the former tar tank and tar separator along the northern Site boundary, and determine the quality of surrounding soils.

- Further delineate NAPL observed at depth at RI location SB-1 along Vandervoort Avenue to obtain a non MGP-impacted background sample/well.
- Further delineate NAPL observed at depth at RI locations near Maspeth Avenue.
- Further delineate NAPL observed at depth at RI locations east of the property in the direction of deep groundwater flow.
- Further delineate NAPL observed at depth at RI locations near the southern property boundary.
- Further delineate the presence or absence of the intermediate clay unit that appeared to pinch out in the vicinity of the former gas holder at the 222 Maspeth Avenue parcel.
- Complete all proposed borings to the top of the Gardiner's Clay unit (which was assumed to be encountered in RI soil boring SB-1 at a depth of 97 ft bgs) to ensure that no NAPL is migrating on this surface.

From September through November 2011, the following field activities were completed as part of the RIWP Addendum No. 1:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced nine soil borings by sonic drilling. Note that the RIWP Addendum No. 1 (National Grid, 2011b) called for advancement of 15 soil borings; however, six borings (SB-25, SB-26, SB-27, SB-28, SB-31 and SB-32) could not be completed during this mobilization due to access issues. These borings were advanced during the RI Addendum No. 2 work as discussed below. In addition, SB-20 was not advanced to the Jameco Gravel at this time, but a separate boring (SB-20J) was completed during the RI Addendum No. 2 work.
- Converted seven borings to permanent monitoring wells. Note that RIWP Addendum No. 1 called for 12 monitoring wells to be installed; however, seven of the planned wells (MW-8J, MW-11B/C, MW-12B/C, and MW-13B/C) were not installed during this mobilization. Wells MW-8J and MW-13B/C were never installed and the others were installed during the RIWP Addendum No. 2 mobilization as discussed below. The wells installed during the RIWP Addendum No. 1 work included:
  - One shallow (A) well installed between 5 and 15 ft bgs,
  - Three intermediate (B) wells installed to total depths ranging from 42 to 49 ft bgs; note that two of these wells (MW-14B and MW-15B) were not planned for in RIWP Addendum No. 1, and
  - Three deep (C) wells installed to total a depth of 82 ft bgs.
- Developed monitoring wells not sooner than 24 hours after their installation.
- Excavated one test pit at 254 Maspeth Avenue to a depth of 8 to 8.5 ft bgs; test pit was backfilled with native material. Note that test pit work was completed concurrent with the PDI for Shallow Soil Removal activities discussed in Section 3.1.2.1 below.
- Collected 24 subsurface (greater than 2 inches bgs) soil samples and no groundwater samples. Collected associated QA/QC samples. The samples collected are listed in Table 3-1. Note that wells MW-8A/B/C were sampled in August 2012 and wells MW-9C and MW-10C were sampled in February 2013 as part of the RIWP Addendum No. 2 activities, although the

sampling had been planned as part of the RIWP Addendum No. 1 scope of work. Submitted samples under proper chain-of-custody procedures to TestAmerica Laboratories, Inc. (TestAmerica) and Spectrum Analytical, Inc. (Spectrum) for the analyses listed in Table 3-1.

- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.1.3 Remedial Investigation – Addendum No. 2 (2012 - 2013)

The objectives of RIWP Addendum No. 2 (National Grid, 2012a) were to:

- Further delineate environmental impacts at areas adjacent to the Site down to the contact with the Gardiner's Clay, and
- Advance one soil boring (SB-20/MW-8J) to identify the elevation of the Jameco Gravel and assess potential impacts and determine the soil and groundwater quality below the surface of the Gardner's Clay.

In July through August 2012 and January through February 2013, the following field activities were completed as part of the RIWP Addendum No. 2:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced 10 soil borings by sonic drilling. Note that six of these borings (SB-25, SB-26, SB-27, SB-28, SB-31 and SB-32) were included in the RIWP Addendum No. 1, but were not installed in 2011 due to access limitations. In addition, boring SB-20J was advanced through the Jameco Gravel and into bedrock.
- Converted two borings into two pairs of permanent nested monitoring wells. Note that these wells (MW-11B/C and MW-12B/C) were originally planned in the RIWP Addendum No. 1. The wells installed during the RIWP Addendum No. 2 work included:
  - Two intermediate (B) wells installed to total depths ranging from 40.5 to 42 ft bgs, and
  - Two deep (C) wells installed to total depths ranging from 88.5 to 102.5ft bgs.
- Installed one temporary well at SB-20J between 70 and 80 ft bgs.
- Developed monitoring wells not sooner than 24 hours after their installation.
- Collected 17 subsurface (greater than 2 inches bgs) soil samples and 10 groundwater samples. Collected associated QA/QC samples. The samples collected are listed in Table 3-1. Note that these groundwater samples were originally planned under RIWP Addendum No. 1, but were collected as part of the RIWP Addendum No. 2 activities. Submitted samples under proper chain-of-custody procedures to TestAmerica for the analyses listed in Table 3-1.
- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.1.4 Remedial Investigation – Addendum No. 2 Modification (2013)

Based on conversation with NYSDEC regarding the preliminary results from the RI Addendum No. 2 activities, a RIWP Addendum No. 2 Modification (National Grid, 2013a) was submitted to further delineate the downgradient extent of dissolved phase constituents east of the Site.

In July and August 2013, the following field activities were completed as part of the RIWP Addendum No. 2 Modification:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced four soil borings by sonic drilling methods.
- Converted all four borings into four monitoring well triplets (12 wells total). The wells installed during the RIWP Addendum No. 2 Modification work included:
  - Four shallow (A) wells installed to total depths ranging from 20 to 25 ft bgs,
  - Four intermediate (B) wells installed to total depths ranging from 40 to 50ft bgs, and
  - Four deep (C) wells installed to total depths ranging from 90 to 112.7 ft bgs.
- Developed monitoring wells not sooner than 24 hours after their installation.
- Collected 12 groundwater samples and associated QA/QC samples. The samples collected are listed in Table 3-1. Submitted samples under proper chain-of-custody procedures to Accutest Laboratories (Accutest) for the analyses listed in Table 3-1.
- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.1.5 Remedial Investigation – Addendum No. 3 (2014)

The purpose of RIWP Addendum No. 3 (National Grid, 2013b) work was to investigate former tidal channels at the current FedEx facility at 300 Maspeth Avenue and at the current 7-9 Rewe Street property. These tidal channels were filled as the area was developed from the late 1800s through the mid-1900s. The purpose of this work was to determine the presence or absence of environmental impacts in these former channel areas.

In May and October 2014, the following field activities were completed as part of the RIWP Addendum No. 3:

- Surveyed and marked the locations of the former tidal channels based on historic documents.
- Completed geophysical surveys using ground penetrating radar of the tidal channels to determine if former channel morphology is present in the subsurface and to identify best areas for subsurface investigation.
- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced 38 soil borings by direct push methods to approximately 30 ft bgs (bottom of the meadow mat).
- Collected 13 subsurface (greater than 2 inches bgs) soil samples and associated QA/QC samples. The samples collected are listed in Table 3-1. Submitted samples under proper chain-of-custody procedures to Accutest for the analyses listed in Table 3-1.
- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.1.6 Remedial Investigation – Addendum No. 4 (2015)

The purpose of RIWP Addendum No. 4 (National Grid, 2015) was to investigate subsurface conditions to the south of the Site beneath current buildings at 1 and 7-9 Rewe Street in order to determine the presence or absence of potential impacts in soils beneath the Rewe Street buildings focused on areas where former tidal channels were present. This investigation also evaluated soil vapor and indoor air samples from the building areas adjacent to (south and west of) the former MGP.

In March through May 2015, the following field activities were completed as part of the RIWP Addendum No. 4:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced eight soil borings by direct push methods to the top of the “intermediate clay” unit if detected, or a maximum depth of approximately 50 ft bgs.
- Collected 25 subsurface (greater than 2 inches bgs) soil samples and associated QA/QC samples. The samples collected are listed in Table 3-1. Submitted samples under proper chain-of-custody procedures to TestAmerica for the analyses listed in Table 3-1.
- Installed three temporary sub-slab soil vapor collection points, two at 1 Rewe Street at the north and south ends of the building and one at 7-9 Rewe Street. Collected one round of SV/IA samples, and an ambient air sample for the laboratory analyses listed on Table 3-2.
- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.2 Pre-Design Investigations

Two phases of PDI were conducted at the Site in order to support development of IRMs for the Site.

3.1.2.1 PDI for Interim Remedial Measure - Shallow Soil Excavation (2011)

The owner of 254 Maspeth Avenue, Cooper Tank, was in the process of obtaining a NYSDEC Part 360 Permit for operating a recycling facility. This permit required construction of a minimum 8-inch thick concrete pad across the entire surface of the Site, a storm water collection system, and a 30-foot high wall along the perimeter of the Site. These activities were expected to be invasive and potentially encounter r environmental impacts observed during the ongoing RI. As a result, National Grid and the NYSDEC agreed that an IRM would be conducted on the 254 Maspeth Avenue property consisting of removal of NAPL saturated soils above the water table. A PDI was conducted to gather additional information needed to ensure a safe and effective design of the IRM, facilitate its implementation, and provide soil pre-characterization for disposal.

The objectives of the PDI for Shallow Soil Excavation were to:

- Delineate the horizontal extent of the visually contaminated soils located around SB-4, TP-2, and SB-12.
- Confirm the vertical extent of the visually contaminated soils to be removed.
- Investigate the unsaturated soils located within the footprint of the proposed perimeter wall.
- Pre-characterize soil for disposal options.

The initial PDI Work Plan (National Grid, 2011a) was modified in September 2011 (National Grid, 2011c) to include four test pits on the 252 Maspeth Avenue parcel with collection of soil samples for waste characterization. The PDI test pit locations are shown on Figure 3-2.

In September 2011, the following field activities were completed as part of the PDI for Shallow Soil:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Excavated 21 test pits (17 at 254 Maspeth Avenue and four at 252 Maspeth Ave) to the water table (with the exception of TP-12, which was terminated above the groundwater surface due to nuisance odor conditions generated during excavation of this test pit). The perimeter test pits were advanced to the water table at a spacing of approximately 50 ft and extended a minimum of 15 ft into the 254 Maspeth Avenue property, from the property perimeter. Two additional step-out locations (TP-12A and TP-15A) were excavated at 25 foot intervals along the perimeter due to the presence of visual impacts in TP-12 and TP-16. Two test pits (TP-2B and TP-2C) were excavated to evaluate the presence and extent of tar observed at RI location SB-4 and test pit TP-2. Excavation was accomplished using a backhoe under the supervision of an AECOM geologist. Each test-pit was backfilled with native material.
- Collected 10 subsurface (greater than 2 inches bgs) soil samples and associated QA/QC samples. The samples collected are listed in Table 3-1. Submitted samples under proper chain-of-custody procedures to Spectrum for the analyses listed in Table 3-1.
- Surveyed investigation locations for horizontal coordinates, ground surface elevation, and top of casing elevations, as appropriate.

3.1.2.2 PDI for Interim Remedial Measure - Potential Barrier Wall Design / NAPL Recovery System (2012)

In 2012, National Grid and NYSDEC discussed the possibility of implementing an IRM to recover NAPL and to limit the potential for off-Site migration of NAPL beyond the site boundary to other adjacent land-side properties. NAPL was observed above a clay layer beneath the Site at a depth of approximately 50 ft bgs. The limits of NAPL were determined during the RI and considered stable based on the progressive change in NAPL distribution from saturated zones noted predominantly on-site to areas containing NAPL coatings, staining, and sheen at distal areas both on-site and off-site. The material is in a non-saturated state and no longer has sufficient volume to create the pressure head for further migration (Gusawa and Kueper, 2003).

Both a barrier wall system and a NAPL recovery system comprised of closely spaced recovery wells were considered, and a PDI was planned to gather data to facilitate the decision. Ultimately, National Grid, with approval of NYSDEC, installed a NAPL recovery system using closely spaced recovery wells (as discussed in Section 6.4) as an IRM.

The findings regarding the extent of impacts are discussed in Section 5.2 and 9.1.

The first part of the PDI (National Grid, 2012b) was conducted to gather geotechnical information needed to ensure a safe and effective design for potential installation of subsurface barrier walls along a portion of the 252 and 254 Maspeth Avenue. The PDI investigation locations are shown on Figure 3-2. The second part of the PDI (National Grid, 2012c) was implemented to install test wells in areas

where NAPL had been observed to evaluate the NAPL recovery potential and inform the spacing and final location of perimeter recovery wells.

In August and September 2012, the following field activities were completed as part of this PDI:

- Completed underground utility clearance activities, including geophysical utility survey and soft digging locations for ground-disturbing activities.
- Advanced seven geotechnical soil borings by hollow-stem auger methods to a maximum depth of 60 ft bgs or the top of the intermediate clay if encountered first. Continuous standard penetration tests (ASTM D1586) were conducted in each boring, and soil from each was logged by a geologist or engineer using the visual-manual procedure (ASTM D2488).
- Collected 14 soil samples and analyzed them for classification of soils for engineering purposes (ASTM D2487), including grain size analysis and Atterberg limits.
- Converted the seven borings into 4-inch PVC wells with 20-slot screens using a 6.25-inch ID hollow stem augers with an expendable plug advanced down the borehole to a depth that allowed the well to screen the top of the intermediate clay surface with an appropriate length sump. Four-inch diameter Schedule 40 PVC well materials were used, including 2-foot minimum length sump and a 10-foot screen.
- Following installation, the wells were developed to remove solids and promote hydraulic connection with the aquifer.
- The wells were then periodically monitored to determine if NAPL was collecting in any of the wells. If present, NAPL was periodically removed to evaluate relative recharge / recoverability characteristics.

3.1.3 NAPL Recovery Well Installations (2013)

Based on the results from the PDI for Potential Barrier Wall Design / NAPL Recovery System, an IRM was developed to implement a system of NAPL recovery wells within and along the perimeter of the Site. A detailed discussion of this IRM is provided in Section 6.4.

As part of the IRM, 23 recovery wells were installed between March 3 to April 10, 2013, five on-Site and 18 along the perimeter of 222, 252 and 254 Maspeth Ave properties. The recovery well locations are shown on Figure 3-2. The perimeter locations were spaced at approximately 18 ft on center, with the exception of the area along the driveway of 254 Maspeth where the presence of a subsurface structure required spacing of approximately 30 ft between the three NAPL recovery wells (RW-6, RW-7 and RW-8). Soil borings were advanced at each of the locations, and soil samples collected for observation. Copies of the boring logs provided in Appendix D. Based on the observations, the bottom of the well screen was set at the bottom of the observed NAPL saturated interval.

3.2 Investigation Methods

This section provides a description of the methods used for conducting the fieldwork at the RI Study Area. Unless otherwise noted in the following sections, the procedures used were consistent with the methods and procedures described in the NYSDEC-approved RIWP, FSAP, QAPP, HASP, and CAMP. Each field activity performed during the investigation, grouped by field task or environmental media, is described in the following sections. The RI and PDI sample locations are shown on Figures 3-1 and 3-2.

3.2.1 Subsurface Utility Location

Prior to the start of any intrusive fieldwork, clearance of underground utilities was performed. The utility locating was initiated by contacting Dig Safely New York. Each company or municipality that had subsurface utilities present in the investigation area marked out their utility lines prior to the initiation of the subsurface work. Copies of available city sewer and water maps from the RI Study Area were obtained and reviewed during underground utility clearance procedures. Following the utility mark out, each sampling location was then scanned using ground penetrating radar (GPR) and electromagnetic (EM) survey methods to confirm the location of marked utilities and/or to identify other unmarked utilities. Lastly, all boring/well locations were pre-cleared by hand digging or vacuum excavating to a depth of 5 ft to check for potential utilities not located by Dig Safely or geophysical methods.

3.2.2 Surface Soil Sampling

Exposed surface soils are generally limited to the eastern areas of the Site within the 252 and 254 Maspeth Avenue parcels. Five surface soil samples were planned; however, four samples (plus one field duplicate sample) were collected during the initial 2009 RI activities, at the locations shown on Figure 3-1. Proposed sample SS-1 was not collected because the boring was installed through a concrete sidewalk and no surface soil was available for collection near the boring.

The surface soil samples were collected from the 0 to 2-inch bgs interval. The samples were collected using a properly decontaminated stainless steel or disposable polyethylene trowel.

The surface soil samples were analyzed for the following parameters (USEPA, 1980 – SW846):

- Full Target Compound List (TCL) VOCs by USEPA Method 8260B
- Full TCL SVOCs by USEPA Method 8270C
- Target Analyte List (TAL) Metals by USEPA Method 6000-7000 Series
- TCL Pesticides by USEPA Method 8081A
- TCL Herbicides by USEPA Method 8151A
- Polychlorinated Biphenyls (PCBs) (as Aroclors) by USEPA Method 8082
- Free cyanide (extraction by USEPA Method 9013A and analysis by Microdiffusion, ASTM International Method D4282-02)

Following sample collection, any remaining soil was used to backfill the sample area. Decontamination of sampling equipment was performed between sample locations in accordance with field procedures in the RIWP. RI Study Area sample locations were surveyed, as described in Section 3.2.14.

Sample details including sample ID, date, and laboratory analysis are summarized on Table 3-1. Analytical results are discussed in Section 5.

3.2.3 Test Pit Excavations

Three test pits were advanced during the initial RI work in 2009, one test pit was advanced during the RIWP Addendum No. 1 activities in 2011, concurrent with the completion of 21 test pits as part of the PDI for Shallow Soil Removal.

The RI test pits were focused in and around the former drip tanks/tar separator in the center of the Site, the gas/oil storage house and former No. 3 oil tank along the eastern edge of the property, the former separator and tar tank underlying the boiler house along the northern Site boundary, and the former tar tank and tar well. The RI test pit locations are shown on Figure 3-1. The PDI test pits were focused around the perimeter of the 254 Maspeth Ave property and areas where soil was going to be disturbed by redevelopment activities, as discussed in Section 3.1.2 and shown on Figure 3-2.

The test pits were excavated with a backhoe or excavator using methods presented in the FSAP, with samples collected from the bucket of the excavator. The test pits were logged by a geologist recording such data as the presence of fill material or subsurface structures, the nature of each geologic unit encountered, observations regarding moisture content, the results of PID readings, and visual and olfactory observations regarding the presence of hydrocarbon-like residuals.

Sample details including sample ID, sample date, and laboratory analysis are summarized on Table 3-1. Test pit logs are included in Appendix E. The results of the observations made and the results of subsurface soil analytical testing performed during the test pit excavations are discussed in Sections 4 and 5, respectively.

3.2.4 Soil Borings and Subsurface Soil Sampling

As discussed in Section 3.1, from 2009 through 2015, 102 soil borings were advanced in the RI Study Area as part of the RI work under the RIWP and Addenda. As outlined in Section 3.1.3, all boring locations were hand cleared to a minimum depth of 5 ft bgs for utility clearance purposes.

The borings completed in the overburden soil were advanced to varying depths as specified in the RIWP and Addenda. Table 3-3 lists all the soil borings completed as part of the RI activities and their final completion depths. Figure 3-1 shows the locations of the RI soil borings. Boring logs are provided in Appendix D.

A variety of drilling methods were used including hollow stem auger, direct push, drive and wash, and sonic drilling. The drillers contracted for different phases of the work included: Fenley & Nicol Environmental, Inc. of Deer Park, New York; Paragon Environmental Construction, Inc. of Brewerton, New York; Boart Longyear, Inc. of Northborough, Massachusetts; Zebra Environmental Corp. of Lynbrook, New York; and Glacier Drilling LLC of Durham, Connecticut.

Each of the drilling methods allowed for continuous soil samples to be taken from the ground surface to the bottom of the borehole for both field characterization and for the collection of samples for chemical analyses. For field characterization, soil samples were screened using a PID and were logged for geology and observations of impacts by a geologist.

The RIWP and Addenda specified the number of soil samples to be collected for chemical analysis and intervals they were to be collected from. Typically, soil samples were collected at intervals with the highest observed impact (based on olfactory and visual observation and PID readings) and at lower intervals without observable impacts (if impacts are encountered) or the bottom of the boring to confirm “non-impacted” conditions.

A total of 141 soil samples (not including field duplicate samples) were collected from soil borings for chemical analysis during the RI. Table 3-1 lists the laboratory analyses performed for each soil sample. Most of the soil samples were analyzed for VOCs, SVOCs, metals and free cyanide (by Microdiffusion method). A subset of soil samples were analyzed for available or total cyanide instead

of free cyanide. A subset of the samples was analyzed for PCB aroclors. Another subset of the samples were analyzed for TPH, DRO and/or GRO. A small subset of soil samples from borings were analyzed for pesticides and herbicides.

Sampling tools were decontaminated between sample intervals and between borehole locations in accordance with field procedures in the RIWP (AECOM, 2009).

Table 3-3 lists the boring locations that were completed as monitoring wells. The remaining borings were backfilled with grout, tremied to the surface. Soil cuttings were placed in 55-gallon drums, labeled, and later disposed at an approved off-site facility (see Section 3.2.15 for Investigation Derived Waste (IDW) details). Following boring activities each location was surveyed as described in Section 3.2.14.

The results of observations made during soil boring advancement are discussed in Section 4. Analytical results are discussed in Section 5.

3.2.5 Monitoring Well Installation

A total of 40 monitoring wells were installed during the RI and RI Addendum phases to obtain groundwater data at locations upgradient, crossgradient, and downgradient of various former MGP features. Most of the monitoring wells were constructed as 2-inch diameter wells using schedule 40 polyvinyl chloride (PVC). Three of the monitoring wells were constructed as 1-inch diameter PVC wells and two wells were constructed using 1-inch prepacked wells. About half of the monitoring wells had 10-slot well screens and the rest had 20-slot well screens. Most of the wells were constructed with a 2-foot sump interval.

Monitoring wells were set in three generalized zones within the water-saturated overburden: shallow (A-series) wells screened at the water table, intermediate (B-series), and deep (C-series). Collocating/pairing wells into a single borehole was approved by the NYSDEC and is described in the following paragraph.

At several locations, monitoring wells screened in the deep and intermediate zones were co-located within one borehole and the shallow well was completed adjacent to the paired location as a single well. For the co-located wells, the deep well was installed first with the bottom of the borehole backfilled with bentonite to within 6-inches of the top of the sump. A 2-foot sump was installed at the bottom, and then a 10-foot screen with a sand pack to just above the lowest screened interval. Before installing the intermediate zone well, bentonite was added (as needed) to the borehole above the deep screened interval to within 6-inches of the bottom of the intermediate screen. A 2-foot sump was installed, then a 10 foot screen, with a sand pack and a riser to just below grade. Above the intermediate zone sand pack, a 2-foot bentonite seal was placed, followed by tremie grout to just below the ground surface. The paired wells were completed at the surface with one flush-mounted, limited access, road box. The entire construction of the intermediate zone has the riser of the deep zone well adjacent to it. For locations with an additional shallow zone well, a second boring adjacent to the deep and intermediate well cluster was advanced for installation of the shallow zone well. Locations with this nested well construction include SB-20/MW-8A/B/C, SB-25/MW-11B/C, SB-26/MW-12B/C, SB-36/MW-16B/C, SB-37/MW-17B/C, SB-38/MW-18B/C and SB-39/MW-19B/C. The location of each monitoring well is shown on Figure 3-1.

A summary of monitoring well information, including the well designation, date installed, screened interval, total depth of the boring, and the elevation of the top of each well riser (in ft above the North

American Vertical Datum of 1988 (NAVD88)), is provided in Table 3-4. The construction details for each well are shown on the respective soil boring logs in Appendix D, and on the cross-sectional views discussed in Section 4.

3.2.6 Well Development

Following a minimum 24-hour wait period after well installation, each of the RI monitoring wells was developed in order to remove fine-grained sediment and fluid residue from the well and the sand pack and to create maximum well efficiency. A surge-and-pump method was used to develop the wells. The surging action was used to actively agitate the water column by forcing water back and forth through the well screen and sand pack. Following surging, the wells were pumped with a submersible pump. Wells were developed until turbidity readings were below 50 nephelometric turbidity units (NTU) or a minimum of ten well volumes was removed. Well development equipment was decontaminated between locations in accordance with field procedures in the RIWP. Well development water was containerized in 55-gallon drums for off-site disposal (see Section 3.2.15 for IDW details). A copy of the well development logs is provided in Appendix F.

Following development, wells were allowed to recover for at least 14 days before groundwater was purged and sampled.

3.2.7 Groundwater Monitoring

3.2.7.1 Depth-to-Water Measurements

Groundwater level measurements were collected using an electronic oil/water interface level indicator fitted with a weighted cord, accurate to 0. 01 ft. Depth to water was measured from the surveyed elevation mark on the well riser. The water level indicator was decontaminated between measurement locations in accordance with field procedures in the RIWP. Depth to water measurements and calculated groundwater elevations are provided on Table 3-5. Groundwater contour maps and a discussion of the data are provided in Section 4. Depth to NAPL and NAPL thickness measurements are presented in Table 3-6.

Groundwater monitoring was conducted during the RI program in several phases:

- December 11, 2009 – Static groundwater gauging event prior to a round of groundwater sampling.
- January 12, 2010 – Static groundwater gauging event to support understanding of groundwater flow.
- December 12, 2012 (2 rounds) –Groundwater gauging events corresponding with high and low tides in the English Kills tributary of Newtown Creek.
- February 12, 2013 – Static groundwater gauging event prior to a round of groundwater sampling.
- July 31, 2013 – Static groundwater gauging event prior to a round of groundwater sampling.
- July 16, 2015 – Static groundwater gauging event at existing/accessible monitoring wells, no groundwater samples collected.
- December 4, 2015 – Static groundwater gauging event at existing/accessible monitoring wells, no groundwater samples collected.

Monitoring wells gauged in each event generally included on-Site and off-Site wells installed for the RI and select wells installed by others at surrounding properties (e.g., wells on the Greenpoint Energy Site).

3.2.7.2 Groundwater Sampling

Wells were developed (as described in Section 3.1.6 above) and allowed to stabilize for a minimum of two weeks prior to the low-flow groundwater sampling events. Groundwater sampling was conducted on four occasions (December 2009, August 2012, February 2013, and July/August 2013) during the RI field program, as listed in Section 3.1 above.

Samples were collected using low-flow purging and sampling techniques. Peristaltic pumps were used for purging and sampling each well. Pump intakes were set at the midpoint of the saturated screened interval. Water levels were monitored during purging using an electronic oil/water interface indicator. Flow rates ranged from 200 to 400 milliliters per minute (ml/min). Groundwater was pumped through a flow-through cell during purging, and pH, specific conductivity, temperature, dissolved oxygen (DO), and oxygen reduction potential (ORP) were measured. Turbidity was measured using a separate meter. Parameter measurements were recorded after the flow-through cell was full and approximately every five minutes thereafter. Purging was complete and sampling began when three consecutive readings were within the stabilization parameters as specified in the RIWP and as indicated on the groundwater sample collection records. Prior to sample collection using a peristaltic pump, the flow-through cell was disconnected.

A groundwater sample was also collected from the on-Site pumping well (PW-1). The existing submersible pump in this well was turned on and purged for approximately 5 gallons and a grab sample was collected and analyzed as indicated on Table 3-1. The flow rate of this pump did not allow for low-flow purging prior to sample collection, but given the active pumping of this well at the time the sampling was conducted, the sample is considered to be representative of aquifer conditions. Field parameters were recorded during purging to the extent practicable.

In addition, two groundwater grab samples were collected from SB-14 and SB-20J. Boring SB-14 was located outside and downgradient of the former No. 1 Relief Holder. A grab sample was proposed instead of installation of a monitoring well because of the heavy truck traffic on this parcel that would quickly damage or destroy the well. The sample was collected using a direct-push screen point sampler positioned approximately 10 to 15 ft bgs consistent with the proposed shallow well depths. A sample of the water in the borehole was collected using a peristaltic pump connected to the down-hole screen point sampler following the general methods described in Section 3.2.7.1 above. Boring SB-20J was installed near the on-Site pumping well, PW-1, into bedrock. The intent was to identify the Jameco Gravel, if present, and locate a potential productive zone for groundwater pumping to replace PW-1. The sample was collected from within the borehole at an approximate depth of 80 ft bgs. The groundwater grab samples were analyzed for the parameters listed in Table 3-1.

In total, 40 groundwater samples (not including field duplicate samples) were collected and analyzed for the parameters listed in Table 3-1. The majority of the groundwater samples were analyzed for the following parameters:

- VOCs by USEPA Method 8260B
- SVOCs by USEPA Method 8270C
- TAL Metals by USEPA Method 6000-7000 Series

- Total cyanide by USEPA Method 9012

Groundwater samples from off-Site well clusters M-16A/B/C, M-17A/B/C, M-18A/B/C, and M-19A/B/C were not analyzed for metals. A subset of samples was analyzed for PCBs (as Aroclors) and TCL pesticides and TCL herbicides.

Purge water was stored in 55-gallon drums later for off-site transport and disposal (see Section 3.2.15 for IDW details). Decontamination of equipment was not necessary as disposable materials were used to collect the samples. Sample details including sample date(s) and laboratory analysis are summarized on Table 3-1. A copy of groundwater collection records are provided in Appendix G. Analytical results are discussed in Section 5.

3.2.8 Hydraulic Conductivity Testing

On January 12 and 14, 2010 hydraulic conductivity testing was performed at seven wells: MW-2A and MW-4A (shallow zone wells); MW-2B and MW-4B (intermediate zone wells); and MW-1C, MW-3C, and MW-4C (deep zone wells).

Solid slug test methods were used for shallow well MW-4A which was screened across the water table and pneumatic test methods were used for MW-2A and the intermediate and deep wells screened below the water table. Slug test data was analyzed using AQTESOLV® software produced by HydroSOLVE, Inc. Rising-head data were matched against the Bouwer-Rice solution (Bouwer and Rice, 1976) for unconfined aquifers using the straight-line fitting method. The AQTESOLV® output files, including graphs of the fitted lines are provided in Appendix H.

Results of the hydraulic conductivity testing and continuous water level monitoring are discussed in Section 4.

3.2.9 Tidal Monitoring

On January 12 through 14, 2010 (concurrent with the hydraulic conductivity testing discussed above), continuous water level measurements were collected during a 24-hour period to evaluate potential tidal effects on water levels. Measurements were collected at nine locations: MW-1A, MW-1B, M1-C, MW-2A, MW-02B, MW-3C, MW-4A, MW-4B, and MW4-C.

Results of the tidal water level monitoring are discussed in Section 4.

3.2.10 DNAPL Baildown Testing

DNAPL baildown testing was completed on select wells containing DNAPL to inform the RI and to provide data to better understand DNAPL behavior and recoverability and migration potential. On March 12, 2010, DNAPL baildown tests were successfully initiated at wells PW-1 (Cooper Tank's former dust suppression well) and MW-3B (Figure 3-1), which had initial DNAPL thicknesses and volumes of 2.61 ft and 5.18 ft, respectively. In February 2012, DNAPL recovery tests were performed at wells MW-14B and MW-15B, which had initial DNAPL thicknesses of 6.38 ft and 10.15 ft, respectively. During purging slightly more than the total effective well volume (volume within the well casing plus pore space in the sand pack) was removed from each well. Following the removal of DNAPL from these wells, the wells were gauged periodically to assess the rate of DNAPL recovery in each well.

DNAPL recoverability potential is dependent on other factors including the DNAPL head, DNAPL extent, proximity of receptors, Site hydraulic gradient, DNAPL properties, and soil parameters. Additional data regarding these Site parameters was also collected to support the recoverability evaluation. For example, DNAPL and water samples were collected from MW-3B, MW-15B, and PW-1 and sent to Torkelson Geochemistry, Inc. for analysis of viscosity, density, and interfacial tension. Results of the testing are discussed in Section 5.5.

3.2.11 Community Air Monitoring

Community air monitoring was performed to provide real-time measurements of total VOCs and particulate (airborne dust) concentrations in air at the downwind perimeter of each designated work area when intrusive investigation activities were in progress in the RI Study Area. The procedures followed methods described in the CAMP (RIWP Appendix E). Additionally, Site personnel monitored the perimeter stations to determine if any odors were being produced as a result of the intrusive sampling activities. The monitoring was designed to provide protection for the downwind community, such as those present at the adjacent public areas and commercial properties, from releases of fugitive emissions potentially resulting from the investigation activities.

Total VOCs and particulates were monitored with a PID and a particulate meter, respectively, located upwind and downwind of each work zone. The VOC and particulate levels at each location were recorded on field forms every 15 minutes, and are included in Appendix I. The PIDs and particulate meters were also set to log information continuously throughout the work day. This information was downloaded to a laptop computer so that the NYSDEC and NYSDOH could review the information if needed. The specific action levels for VOCs and particulates are provided in the CAMP. Action levels were not reached as a result of the intrusive investigation activities at any time during the RI and associated addendums, so no response actions were necessary

3.2.12 Vapor Intrusion Evaluation Sampling

Vapor intrusion sampling was conducted at four properties on/adjacent to the Site over five events in 2009, 2010 (two events), 2011, and 2015. Four rounds of samples were collected from 222 Maspeth Ave, two rounds were collected from 252 Maspeth Ave, and one round was collected from both 1 Rewe Street and 7-9 Rewe Street. At each location a pair of sub-slab vapor and indoor air samples was collected, along with one outdoor ambient air sample per event. Table 3-2 lists the samples collected in each event, and Figure 3-1 shows the sampling locations.

At 222 Maspeth Ave, the samples were collected from the ground floor (locker room area) of the office structure. At 252 Maspeth Ave, the samples were collected from the ground floor of the mechanics shop. In the building at 1 Rewe Street, two sets of samples were collected from different ends of the building, and at 7-9 Rewe Street, one set of samples was collected from the north end of the building.

Prior to conducting the sampling, utilities were cleared by geophysical methods as described in Section 3.2.1 above. In addition, a chemical inventory was conducted within the building locations, along with completion of the NYSDOH indoor air quality questionnaire and building inventory form (Appendix J).

Once utilities were cleared, sub-slab soil vapor samples were collected immediately below the concrete floor slabs. Sampling implants were installed by drilling a ¾-inch diameter hole through the slab and placing Teflon® tubing in the hole. An air-tight seal was created by filling the space between the tubing and the concrete with hydrated bentonite. The tubing used for sampling was attached to a

sampling canister with Swagelok™ fittings. A helium-filled “shroud” was placed around the insertion points to confirm the integrity of the seals. One to three volumes of air were then purged from the tubing with a helium meter at a rate less than 0.2 liters per minute. During sampling activities, no helium was detected indicating that no leaks were found in the seals for each location. Once the seals were checked, the samples were collected in batch certified, 6-liter Summa canisters fitted with eight-hour regulators. Following sample collection, all concrete coring holes were sealed and patched to match the existing grade.

The indoor air samples were also collected at the same locations as the sub-slab soil vapor samples. One ambient air sample was collected during each event at a location upwind of the buildings at the time of sampling. These samples were collected using individually certified, 6-liter Summa canisters fitted with eight-hour regulators.

Decontamination of equipment was not necessary as disposable materials were used to collect the samples.

All samples were shipped via an overnight courier to a NY ELAP-certified laboratory for analysis. Sub-slab soil vapor, indoor air, and ambient air samples were analyzed for VOCs (including naphthalene) by USEPA Compendium Method TO-15. The soil vapor samples were also analyzed for helium using ASTM Method D-1945 Modified and a specific MGP indicator compound list provided by National Grid. Sample details including sample identification, sample date(s), and laboratory analysis are summarized on Table 3-2. Analytical results are discussed in Section 6.

3.2.13 Analytical Program

The laboratory samples for each media and the chemical analyses performed are summarized in Tables 3-1 and 3-2. Requisite quality assurance/quality control (QA/QC) samples were collected and analyzed in accordance with the QAPP. The laboratory analysis during the RI and PDIs was completed by the following laboratories:

- H2M Labs, Inc. of Melville, NY – Initial RI, August 2010 IA/SV and February 2011 IA/SV sampling
- Air Toxics, Ltd. of Folsom, CA – March 2010 IA/SV sampling
- TestAmerica Laboratories, Inc. of Edison, NJ – RI Addendum No. 1, RI Addendum No. 2, RI Addendum No. 4
- Spectrum Analytical, Inc. of Warwick, RI – RI Addendum No. 1 and PDI for Shallow Soil Removal
- Accutest Laboratories of Marlborough, MA – RI Addendum No. 2 Modification, RI Addendum No. 3

Soil analytical methods included the following:

- VOCs - USEPA Method 8260
- SVOCs - USEPA Method 8270
- Metals - USEPA Method 6000-7000 Series
- PCBs as Aroclors - USEPA Method 8082

- Free Cyanide - extraction by EPA Method 9013A and analysis by Microdiffusion, ASTM International Method D4282-02
- Pesticides - USEPA Method 8081
- Herbicides - USEPA Method 8151
- Total Petroleum Hydrocarbons (TPH) - GC/FID by EPA Method 8015

Groundwater analytical methods included the following:

- VOCs - USEPA Method 8260
- SVOCs - USEPA Method 8270
- Metals - USEPA Method 6000-7000 Series
- PCBs as Aroclors - USEPA Method 8082
- Total Cyanide – USEPA Method 9012
- Pesticides - USEPA Method 8081
- Herbicides - USEPA Method 8151

Indoor air, soil vapor, and ambient air analytical methods included:

- VOCs (including naphthalene) - USEPA Compendium Method TO-15 (note that in addition to the standard TO-15 list of compounds, several additional compounds were analyzed including indane, indene, thiophene, styrene, 2-methyl pentane, isopentane, 2,3-dimethyl pentane, isooctane, and methyl tert-butyl ether (MTBE)
- Helium - ASTM Method D-1945 Modified

3.2.13.1 Quality Assurance/Quality Control Analyses

Field and laboratory quality control samples for the investigation were collected and analyzed to document the accuracy and precision of the sample results. The QA/QC samples included trip blanks, field duplicates and matrix spikes (MS), and matrix spike duplicates (MSD). The data quality level for the investigation was Level IV and was consistent with reporting requirements outlined in the NYSDEC Analytical Services Protocol (ASP) July 2005 methodologies. Full ASP Category B data packages will be prepared by the laboratory for all samples collected during the RI, and are included in Appendix K.

3.2.13.2 Data Usability Summary Report

For quality control purposes, comprehensive CLP-equivalent data packages were produced by the various laboratories for the soil, groundwater, soil vapor, and indoor air samples for review by a qualified chemist. A USEPA Region II data usability summary report (DUSR) was prepared by the AECOM Environmental Chemistry Group for each soil and groundwater sampling event. The DUSRs for this project are included in Appendix L.

As part of the data review process, analytical results and data qualifiers were corrected, where necessary, to reflect quality control issues. The Form I Report Sheets in Appendix L and the data

summary spreadsheets discussed in this section includes the data qualifiers and reflects the findings of the data validation process.

Organic data quality was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance, internal standards, initial and continuing calibrations, surrogate recoveries, MS/MSD samples, MS/MSD relative percent differences (RPDs), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial and continuing calibrations, contract required detection limit (CRDL) standard recoveries, laboratory control samples, ICP interference check sample results, ICP serial dilution results, laboratory and field duplicates, and laboratory blanks, and analyte quantitation.

3.2.14 RI Study Area Survey

Following completion of each phase of investigation, all boring, test pit, and monitoring well locations were surveyed for location, ground surface elevation, and top of casing elevation and measuring point elevation for monitoring wells, using a licensed New York surveyor. In addition, other property elements such as property boundaries, topography, and Site features were surveyed as needed. All horizontal locations were reported in the New York State Plane Coordinate System, Long Island Zone (NAD83) in ft. All vertical measurements were reported in ft relative to NAVD88.

3.2.15 Investigation-Derived Waste Management

In addition, during each investigation phase, all Investigation Derived Waste (IDW) generated was collected in properly labeled USDOT-approved storage containers (55-gallon drums) or small bulk roll-off containers and grouped by environmental matrix (soil, water, PPE/plastic, construction debris). The drums (or roll-off containers) were stored within the 254 Maspeth Avenue parcel in a temporary storage area.

Subsequently, the waste was characterized with laboratory analyses including full TCLP, corrosivity, ignitability, reactivity, TPH, and PCBs. Waste transportation and disposal of all contaminated wastes was managed by National Grid in accordance with management of IDW procedures outlined in the FSAP provided in the RIWP (AECOM, 2009).

4.0 Geology and Hydrogeology

4.1 RI Study Area Geology

RI Study Area geology and stratigraphy were developed based on observations of soil from the test pits and soil borings completed during the RI, as well as observations from previous investigations at in the RI Study Area. Soil boring and test pit logs are included in Appendices D and E, respectively. Based on the information presented in these logs and previous investigations, seven stratigraphic cross-sections were generated. The orientation of the cross-sections, shown on Figure 4-1, were positioned to present representative “slices” of the subsurface within the investigation area on-Site, as well as off-Site at 300 Maspeth Avenue, Greenpoint, and at 1 and 7-9 Rewe Street. Individual sections are provided on Figure 4-2 (A-A’), Figure 4-3 (B-B’), Figure 4-4 (C-C’ and D-D’), Figure 4-5 (E-E’ and F-F’), Figure 4-6 (G-G’) and Figure 4-7 (H-H’).

As shown on the cross sections, site specific observations are consistent with regional geology presented in Section 2.4. The RI Study Area stratigraphy is dominated by five primary units:

- anthropogenic fill
- meadow mat consisting of fibrous and friable peat, organic silts and clay, and marine clays
- glacial-outwash and fluvial deposits consisting of sands and silts often interbedded, as well as gravels
- glacial-lacustrine deposits consisting of silts and clays
- the Gardiners Clay, a regional confining unit

These units are part of the upper Pleistocene and recent Holocene regional deposits. Within the sand/silt unit are continuous and discontinuous lenses of sand, silts, and clay. These units have been assigned to the following site-specific formations named to support the RI:

- Fill
- Sand
- Meadow Mat
- Intermediate Sand
- Intermediate Clay
- Lower Sand
- Lower Clay
- Gravelly Sand
- Gardiners Clay (Regionally Defined)

These units are described in detail in the following sections.

One soil boring, SB-20J, was advanced to bedrock, which was encountered at 192.0 ft bgs. This boring was advanced into bedrock to a final depth of 250 ft bgs. The Gardiners Clay was present overlying bedrock at this location, and no identifiable Jameco Gravel unit was encountered. The lack of the Jameco Gravel unit beneath the RI Study Area is consistent with data presented in by Buxton and Shernoff's (1999) hydrostratigraphic descriptions showing the northern extent of the Jameco Gravel in the vicinity but south of the RI Study Area. Therefore, the Gardiners Clay was the deepest non-consolidated overburden unit encountered during the RI.

4.1.1 Fill

As shown on the cross-sectional views, fill was observed to be present in all areas of the RI Study Area in thicknesses typically ranging from 15 to 25 ft, and within the range of the groundwater table. The fill is comprised of mostly poorly graded sand, silt, and gravel with varying amounts of anthropogenic material: coal fragments, ash, concrete slabs, wood pieces, wood fragments, brick fragments, and glass. Other urban fill debris including carpeting and metal scraps consistent with the Site's most recent use as a waste transfer station, were encountered at 222, 252, and 254 Maspeth Avenue.

4.1.2 Sand

In a few isolated locations, a fine sand unit with little silt was observed above the meadow mat, and represented post glacial deposition. The thickness of the unit is less than 10 ft. These units were encountered beneath 222 Maspeth Avenue at SB-20J, along the northeastern Site boundary at PDI-3, and off-Site to the south beneath 7-9 Rewe Street at SB-45.

4.1.3 Meadow Mat

As shown on cross-sectional views, a layer of meadow mat (peat and clay) was observed to be present in all areas of the RI Study Area underlying fill in thicknesses typically ranging up to 4 to 20 ft with thickness generally increasing with proximity to the English Kills tributary of Newtown Creek. The meadow mat represents the former ground surface prior to development (filling) in the RI Study Area and is mostly continuous, which is consistent with the historic marshy environment of this area (see Figure 4-8). However, this unit was likely completely excavated within the footprint of the No. 1 Gas Holder at 222 Maspeth based on the total depth of the holder exceeds the bottom of the meadow mat observed in the closest borings, and may have been partially excavated at other locations prior to or during the filling of the area to industrial development of the area.

The meadow mat consists of varying amounts of a densely compacted decomposed vegetative material (peat), organic clays, marine clays with shell fragments, and silt, and is brown/tan or grey in color with a distinctive organic-like odor. The unit acts to separate the underlying native soils from the overlying fill.

4.1.4 Intermediate Sand

Between the bottom of the meadow mat and the top of the Gardiners Clay, are units of glacial outwash dominated by sands and silts. The shallower formation of this unit is the Intermediate Sand. The unit varies in composition, occurring as tan and grey interbedded sand and silt beds and as well graded to poorly graded sands and silt zones. With depth, the percentages of fines tend to increase until a sharp transition to dense, hard clay with silt and sand lenses, hereafter "interbedded clay", as described below. This layer ranges from five to twenty ft thick, was generally encountered 20 ft to 30 ft bgs.

4.1.5 Intermediate Clay

This interbedded clay unit, labelled the “Intermediate Clay” unit in the RI Study Area, is present within the Upper Pleistocene glacial outwash deposits and tends to be around 20 ft thick in most areas of the RI Study Area. The Intermediate Clay unit pinches out beneath western parts of the 222 Maspeth Avenue, 1 Rewe Street, and the Greenpoint Energy Center properties. This clay unit represents a localized confining layer beneath the RI Study Area where present. This layer ranges from 19 to 35 ft thick, was generally encountered 36 ft to 52 ft bgs. The topography of the top of the intermediate clay unit is presented on Figure 4-9.

4.1.6 Lower Sand

Beneath the Intermediate Clay unit is another sequence of Upper Pleistocene glacial outwash deposits comprised of interbedded sands and silts described as the “Lower Sand” unit. These deposits were documented in all borings beneath the RI Study Area below the Intermediate Clay unit, beneath the Lower Clay unit, and in areas where the Intermediate Clay unit was absent. This layer ranges from 5 to 10 ft where the intermediate and the low clay units are present to 40 ft thick along the western side of the Site. The top of the unit was generally encountered between 46 ft to 80 ft bgs.

4.1.7 Lower Clay Lens

A clay lens labelled the “Lower Clay” lens was identified in several borings within the Lower Sand unit, primarily beneath the 222 and 252 Maspeth Avenue parcels. This lens acts as a localized confining layer where present. Where present, this unit ranges from 5 to 10 ft thick, was generally encountered between 78 to 86 ft bgs. The topography of the top of the lower clay lens unit is presented on Figure 4-10.

4.1.8 Gardiners Clay

The Gardiners Clay is present beneath all areas of the RI Study Area that were investigated at typical depths of 85 to 100 ft bgs. Lignite is present at the top of the Gardiners Clay at select borings. The presence of lignite is consistent with regional descriptions provided by Buxton and Shernoff (1999). The unit is comprised of a high plasticity, stiff, blue to greenish gray clay and silty clay. At one boring, SB-20J, the Gardiners Clay was observed to be approximately 80 to 100 ft thick (Appendix E). The Gardiners Clay is consistent in depth and composition with regional descriptions provided by Buxton and Shernoff (1999) and Misut and Monti (1999). The unit represents a confining unit defining the lower extent of the Upper Pleistocene glacial deposits aquifer. The topography of the top of the Gardiners Clay unit is presented on Figure 4-11.

4.1.9 Bedrock

Competent bedrock was encountered at one soil boring, SB-20J, at a depth of 192.0 ft bgs. From approximately 192 to 197 ft bgs, bedrock fractures were observed to be filled with Greenish grey clay. This boring was advanced into bedrock to a final depth of 250 ft bgs. The bedrock was comprised of schist identified as the Hartland Schist on the Bedrock and Engineering Geologic Map of New York County and Parts of Kings and Queens Counties, New York (USGS, 1994). There was an observed weathered saprolite zone in the upper 15 ft of bedrock starting at 177 ft bgs showing relic bedrock structures. In general, the bedrock is relatively impermeable, with water transmitted along faults and fractures.

4.2 Site Hydrogeology and Groundwater Flow

Prior to urbanization, fresh water recharge would have been entirely through precipitation (rain or snowfall). It is estimated that 50% of annual rainfall (44 inches per year average) was recharged to groundwater; the remaining would have gone to evapotranspiration and direct runoff. Currently, as a result of the land use changes that include large expanses of paved and impervious surfaces, it is estimated that only 15% of precipitation enters the groundwater through recharge in Kings County (Buxton and Shernoff, 1999). The Site and the area around the Site is relatively impervious and therefore it is expected that this rate is appropriate for the Site itself.

Aquifer (slug) testing was completed on-Site to estimate hydraulic conductivities. The results of the analysis of these tests are summarized on Table 4-1. The hydraulic conductivities of the fill materials at MW-2A and MW-4A ranged over two orders of magnitude from 2.16 to 143.7 ft per day (ft/d). This is expected since the nature of the fill was variable and the way in which it was placed is not expected to have been systematic or regulated. The hydraulic conductivity of the intermediate soils (sand and silt) beneath the peat/clay confining unit was calculated to be 1 ft/d at MW-4B and 4 ft/d at MW-2B. This range is consistent with what is expected for these soil types (Freeze and Cherry, 1979). The hydraulic conductivities for the deepest soils ranged from 7 ft/d to 50 ft/d. This range reflects the varying percentages of finer-grained soils observed in RI Study Area borings.

Groundwater contour maps (Figures 4-12 through 4-17) have been prepared for the shallow, intermediate, and deep groundwater zones for two rounds of data (December 11, 2009 and December 4, 2015). Table 3-5 presents the measured groundwater elevations for the RI Study Area. Table 4-2 shows the calculations of horizontal gradient, and Table 4-3 summarizes vertical gradients.

4.2.1 Shallow Zone Wells

The water table was generally encountered in the RI Study Area at 6 to 10 ft bgs. There is a groundwater elevation difference between the shallow water levels and the intermediate water levels indicating downward gradients from the shallow to intermediate zone wells (Table 4-3). There are no Site-specific data to characterize hydraulic conductivity of the meadow mat unit located between the shallow and intermediate zones, but it is expected to be at least two orders of magnitude lower than the conductivities for either the shallow or intermediate zones. Despite the strong downward vertical gradients in shallow zone wells, groundwater flow in the shallow zone wells in December 2015 was to the south-southeast (Figure 4-13).

4.2.2 Intermediate Zone Wells

Within the intermediate zone, groundwater elevations tend to be higher in the western portion of the RI Study Area, and lower to the east and south (Figures 4-14 and 4-15). Groundwater elevation data at MW-6B however do not fall into this pattern. The lower elevations in this well are interpreted to be the result of groundwater pumping at the Brooklyn Truck Wash property located at 184 Maspeth Avenue from a depth consistent with the screened interval of the intermediate zone wells. This interpretation is supported by pressure transducer data collected from wells MW-1B and MW-1C (near MW-6B) during tidal influence monitoring that showed a pattern of variable water levels over time consistent with groundwater pump cycling (see Section 4.2.5 below). Groundwater flow direction in the intermediate zone is also consistent with that observed at the neighboring Greenpoint Energy Center Site.

Horizontal groundwater gradients in the intermediate zone based on the contours shown on Figures 4-14 and 4-15, are calculated to range between 2.15E-3 ft/ft and 1.22E-2 ft/ft depending on the flow path. Assuming a hydraulic conductivity of 2.4 ft/d (average hydraulic conductivity value for MW-2B and MW-4B, Table 4-1) and a porosity of 0.25, groundwater velocities range between 7.5 and 43 ft per year in the intermediate zone.

4.2.3 Deep Zone Wells

Below the interbedded clay in the deep groundwater wells, groundwater flow towards the south-southeast (Figures 4-16 and 4-17). This flow direction is consistent with the intermediate zone wells and flow directions observed at the neighboring Greenpoint Energy Center Site at similar depths. Horizontal groundwater gradients are calculated to range between 9.88E-4 ft/ft and 6.43E-3 ft/ft depending on the flow path (Figures 4-16 and 4-17). Given the range of hydraulic conductivity calculated and assuming a porosity of 0.25, groundwater velocities range from 2.4 to over 22.5 ft per year within this interval.

The groundwater pressure head potential calculations are set forth in Table 4-3. While the vertical hydraulic head potential in the deep zone is greater than in the intermediate zone in certain areas (MW3B/C and MW-4 B/C), the presence of the low conductivity intermediate clay unit separating the intermediate zone and deep zone should impede actual groundwater flow between these zones. Furthermore, there is no indication that groundwater flows from the intermediate zone to the shallow zone based on gauging data.

4.2.4 Groundwater Flow Summary

Flow in the shallow fill zone is controlled predominately by the peat/clay layer and the small amount of recharge that comes via precipitation. Other local controls on the flow in the shallow zone may be the result of infrastructure, such as utilities located beneath Maspeth Avenue which may act as sources or sinks of water to the groundwater system. The regional boundary conditions (rainfall recharge and surface water discharge) also have control over the intermediate and deep zone flow. In shallow and intermediate depth aquifer zones, flow is generally horizontal to east-southeast toward English Kills. Beneath the RI Study Area, the Gardiner's Clay acts as a confining unit between the overburden above it and the bedrock below.

There are measurable vertical head potential differences between the shallow and intermediate, and between the intermediate and deep groundwater zones, as outlined on Tables 4-2 and 4-3. Data also suggest a component of upward head potential between the deep and intermediate aquifer zones that is likely related to the confining nature of the intermediate clay unit, to the proximity of the English Kills discharge boundary, or some combination of both. As stated above, both Site specific and regional data indicate that overall groundwater flow is from approximately west to east-southeast.. Data from the deepest wells on-Site best represent the regional flow conditions. On a regional basis, given that the Upper Glacial Aquifer (UGA) beneath the site is over 100 ft thick and that the English Kills represents the upper reach of an estuarine system of Newtown Creek, it is likely that some portion of deep groundwater flow beneath the Site underflows the English Kills/Newtown Creek system and discharges more directly to the regional East River discharge boundary. For purposes of this RI however, it was not necessary to evaluate the portion of the deep aquifer zone that may underflow English Kills.

4.2.5 Tidal Influence

The influence of the surface water boundary conditions on the deep groundwater levels is most evident when looking at the tidal impacts. Figure 4-18 shows water levels recorded over two days at several on-Site wells and compares them to tidal data at a nearby tidal monitoring station. Shallow and intermediate wells were not impacted by tides, but deep groundwater levels at MW-3C and MW-4C were clearly related to the tidal cycle. The lack of response in the shallow and intermediate zones indicates that there is a poor hydraulic connection between the deep zone and overlying zones. Groundwater levels at MW-1C were not impacted by tidal changes even though this well is screened at a similar depth as that at MW-3C and MW-4C. This difference is attributed to the lack of overlying interbedded clay unit in this area. The clay elsewhere acts to confine the deep groundwater zone, thus allowing the pressure wave from the tidal change to be represented and recorded in those areas. In the absence of the clay, the tidal impacts are not as apparent because the deep groundwater is not pressurized. The small (a few tenths of a foot) fluctuations in water levels seen at MW-1B and MW-1C are attributed to pumping at the Brooklyn Truck Wash property (184 Maspeth Avenue), located on the west side of Vandervoort Avenue.

5.0 Subsurface Environmental Observations and RI Analytical Results

This section presents a summary of subsurface field observations and the results of the laboratories analyses performed for the RI samples. A discussion of the results of the analyses, and a comparison to applicable NYSDEC Standards, Criteria and Guidance Values are grouped according to environmental media in the sections following the description of observed subsurface conditions. NYSDEC ASP Category B data packages were prepared by the laboratory for all samples collected during the RI and are included in Appendix K.

5.1 Observed MGP Structures

Two former MGP structures were encountered during the RI. These are shown on Figure 5-1, and include the 430,000 cu ft No. 1 Relief Holder/Storage Holder No. 1 located at 222 Maspeth Avenue, and the No. 1 and No. 2 Oil Tanks at 254 Maspeth Avenue. Soil borings SB-8 and SB-13 were installed within the footprint of the Relief/Storage Holder. Fill materials consisting of sand, gravel, wood, slag, and trace ash were encountered from below the concrete surface slab of the waste transfer facility to the distinct split-spoon refusal depths of 26 ft and 25.5 ft bgs at SB-8 and SB-13, respectively. Based on constructions drawing provided by BUG, included in Appendix B, the former No. 1 Relief Holder depth along the circumference is 33 ft bgs. The boring refusals likely represent the center mound of the holder. This configuration is shown on cross-sections A-A' and B-B' on Figures 4-2 and 4-3. Impacts are present within the holder and include staining and sheens, as well as NAPL saturated intervals and lenses with naphthalene-like odors within the bottom 10 ft of the holder. Additional detail is presented on Table 5-1 and on the borings logs available in Appendix D.

Test pit TP-2 was excavated in an "L" shape across the No. 1, No. 2 and No. 3 Oil Tanks at 254 Maspeth Avenue. A section of concrete slab was encountered at 8 ft bgs beneath the eastern half of the TP-2 in the approximate location of the No. 1 and No. 2 Oil Tanks and Oil House. Fill materials of sand, gravel, and brick and concrete fragments were encountered above the slab, with pockets of black viscous NAPL and solidified NAPL with a strong naphthalene-like odor. The water table was encountered at approximately 8 ft bgs, and contained some oil-like material with a yellow tint and a fuel-oil like odor. The location of the Oil Tanks is shown on Figure 5-1.

5.2 Summary of Visible and Olfactory MGP and Petroleum Related Impacts

Visible and olfactory impacts of residual NAPL with naphthalene-like odors and petroleum related materials observed in the subsurface are summarized on Tales 5-1 and 5-2, shown on the cross-sections A-A' through H-H' (Figures 4-2 through 4-7), and illustrated in plan-view on meadow mat and clay contours on Figure 5-2 through 5-5, as well as on the boring logs provided in Appendix D. Table 5-1 summarizes visible and olfactory impacts observed in soil borings, monitoring wells, and test-pits advanced during the RI, PDIs, and IRMs. Visible impacts, including staining, sheen and the presence of NAPL can be evidence of environmental impacts from the MGP as well as from a number of the other non-MGP industrial sources that have been identified in the RI Study Area. Table 5-2 summarizes visible and olfactory impacts observed in soil borings and monitoring wells installed by others prior to the RI in the RI Study Area and at 300 Maspeth Avenue. Impacts are grouped into a color categories provided in NYSDEC MGP field descriptor guidance. These categories are defined

on the tables and figures, and include odors (subjectively qualified as petroleum-like or naphthalene-like by the field geologist), staining, blebs and globs and sheens, coated material or lenses, and NAPL saturated. Zones of NAPL saturation represent areas where the entirety of the pore space of the soil matrix appears to be filled with NAPL.

As discussed in Section 4.1, the RI Study Area stratigraphy includes four low permeability units, which include a meadow mat, an intermediate clay unit that pinches out to the west below the No.1 Relief Holder, a lower clay unit that also pinches out pinches out to the west below the No.1 Relief Holder and to the east beneath the 254 Maspeth Avenue parcel, and the Gardiners Clay that is laterally continuous regional confining later beneath the RI Study Area. As shown on the meadow mat and clay contour figures (Figures 5-2 through 5-5) and the cross-sections (Figures 4-2 through 4-7), NAPL saturated zones are primarily encountered within the bottom 10 ft of fill above the meadow mat (generally 14 to 25 ft bgs), and in the permeable interbedded sands and silts above the intermediate clay. The zones of complete NAPL saturation typically range from half a foot to 2 ft in thickness. However, due to the interbedded nature of the sands and silts above the intermediate clay, NAPL occurs predominately in thin sand lenses from half an inch to 3 inches thick. Associated with these saturated NAPL lenses are moderate to strong naphthalene-like odors. A few, less extensive NAPL saturated lenses are also present on the lower clay below the RI Study Area, and on the Gardiners Clay in areas where the intermediate clay and lower clay lenses are absent.

As shown on Figure 5-2 and summarized on Table 5-1, visible NAPL related impacts are present in the fill and the few sand units above the meadow mat, and in the interbedded silts and sands and gravelly sands that are present between the low permeability clay units. During the RI, NAPL was encountered at depths ranging from 4.3 ft bgs (8.36 ft NAVD88) at SB-12A to 92.5 ft bgs (-79.86 ft NAVD88) at SB-22.

5.2.1 Above and Within the Meadow Mat

Solidified NAPL with a naphthalene-like odor was observed as hardened pockets and pieces within the fill at depths ranging from the ground surface (TP-2) to 10 ft bgs where a trace amount was observed at SB-15. Thicknesses of the pockets ranged from 0.15 ft at TP-2 to 2 ft at SB-4 and TP-4. The solidified NAPL was encountered primarily beneath the southwest area of the 254 Maspeth Avenue property, as well as at an isolated location (SB-15) along the eastern boundary of the 252 Maspeth Avenue property. Much of this material was removed during the shallow soil IRM. See Section 6 for more details.

As shown on Figure 5-2, NAPL impacts of petroleum-like odors, sheens, and staining were also observed within the fill materials beneath the eastern end of the 254 Maspeth Avenue property. Petroleum saturation and sheens were also observed to the west of the Site along Vandervoort Avenue at SB-6B near the location of oil releases observed during utility pole replacements and excavations (Spill No. 0701343; Spill No. 0701344, and Spill No. 0705958; AECOM 2009). Impacts were also observed to the southeast of the Site beneath 7-9 Rewe Street and 300 Maspeth Avenue. Depths to NAPL staining and sheens ranged from 4 ft bgs at SB-7A (8.51 ft NAVD88) to 27 ft bgs (-12.92 ft NAVD88) at SB-45. A thin layer of NAPL was observed at 8 ft bgs on the water surface during the advancement of TP-2 across the footprint of the former No. 1 and No. 2 Oil Tanks at 254 Maspeth Avenue. See Section 5.1 for additional information. Petroleum odors and sheens were observed coincident with the foot print of the former bulk fuel-oil storage facility located at 7-9 Rewe Street (borings SB-41, SB-45, SB-46, and SB-47). Petroleum odors and sheens were also observed in borings advanced along the eastern property boundary of 300 Maspeth Avenue and to the southeast of the former UST excavation performed by FedEx (See Section 2.10.2).

Above the meadow mat, NAPL impacts were observed beneath most of the Site with the exception of the eastern edge of the 254 Maspeth Avenue parcel (Figure 5-2). Thicknesses of NAPL saturated lenses ranged from 0.1 ft at SB-11 to 5 ft at SB-21, SB-29, SB-30, and PDI-3. Off-Site, NAPL saturated lenses above the meadow mat were limited to two locations (SB-27 at the Greenpoint Energy Center and T1-SB8 at FedEx). NAPL coatings were also noted in nearby adjacent borings in these areas. As shown on Cross-Section H-H', to the north of the Site a 0.4 ft thick saturated NAPL interval was observed at SB-27 from 17.2 to 17.6 ft bgs along the southern boundary of the Greenpoint Energy Center Site. To the north and northeast of SB-27, NAPL impacts consisted of thin bands of NAPL coated material observed in borings SB-28 (12.7-12.9 ft bgs) and GPEC-SB334. NAPL saturation was also observed to the southeast of the Site on the FedEx property at 300 Maspeth Avenue. A 0.5 foot thick interval of saturated NAPL was observed from 18-18.5 ft bgs at T1-SB8. The impacted area is limited in extent; NAPL stringers, coatings, and blebs were observed in borings 15 ft to the north (T1-SB7) and 50 ft to the south (T2-SB1). The remaining impacts along this transect consisted of slight sheens and naphthalene-like odors. To the east, along the eastern FedEx property boundary, trace NAPL coatings were observed in a 0.5 ft interval from 18 to 18.5 ft bgs at one boring (T5-SB2; Figure 5-2). The NAPL coating at the T5-SB2 location is not likely to be mobile or extend significantly beyond this location on the 300 Maspeth Avenue property. The material is in a non-saturated state and no longer has sufficient volume to create the pressure head for further migration (Gusawa and Kueper, 2003). As discussed below, petroleum-like odors and sheens were also observed in this area in proximity to former USTs at the 300 Maspeth Avenue property. To the west of the Site, NAPL observations above the meadow mat consisted of small pockets of NAPL blebs and NAPL coatings from 19.5 to 23.5 ft bgs beneath 1 Rewe Street. Although NAPL saturation was observed above the meadow mat in borings advanced along the northeastern and southern Site boundaries, NAPL was not observed in borings SB-26 at 300 Maspeth Avenue, SB-1C along Vandervoort Avenue, and SB-41 and SB-44 beneath 1 Rewe Street and 7-9 Rewe Street.

5.2.2 Above the Intermediate Clay

As shown on Figure 5.3 and cross-section A-A' and discussed in Section 5.1, NAPL saturation and lenses are present from 4 to 10 ft above the bottom of the No.1 Relief Holder at 222 Maspeth Avenue and in the interbedded sands and silts above the intermediate clay adjacent to, below, and to the to the east of the holder. NAPL saturated lenses above the intermediate clay were encountered from 26 ft bgs (-11.31 ft NAVD88) at SB-5B/MW-5B to 53 ft bgs (-39.39 ft NAVD88) at SB-11. Thicknesses of the NAPL saturated lenses ranged from 0.2 ft at SB-15 to 8 ft at PDI-1. However, entire impact intervals consisting of interbedded silts and sands with impacts ranging from NAPL saturated, to coatings, blebs, and sheens often exceeded 10 ft in borings advanced beneath the Site.

As shown on the intermediate clay contours on Figure 5-3, the majority of the NAPL impacts were observed beneath the Site where the intermediate clay is deepest. Furthermore, NAPL thickness of over 4 ft were measured in monitoring wells MW-3B along the northeastern border of 254 Maspeth Avenue and in wells MW-14B and MW-15B beneath 252 Maspeth Avenue and downslope (following clay surface topography) of the No.1 Relief Holder.

Although NAPL impacts are present along the eastern Site boundary, they do not extend far onto the neighboring FedEx property as shown by the absence of impacts above the intermediate clay at SB-26 and SB-25.

NAPL impacts were observed south of the Site boundary under the 1 Rewe Street and 7-9 Rewe Street properties; however, impacts did not extend to or beyond Rewe Street. NAPL saturated soils were observed from 43 to 48 ft bgs at one boring (SB-43) advanced beneath the center of the 7-9

Rewe Street property. This location is consistent with a trough in the clay surface extending from 252 Maspeth Avenue. NAPL coated and stained material was observed at borings SB-31 and SB-41 located to the west of SB-43. However, the extent of impacts under the Rewe Street properties has been delineated to the east by borings SB-44, SB-46 and SB-47 (which did not have visible impacts in this interval) and to the south by SB-39 (which did not have visible impacts in this interval) and SB-45 (which had staining and odors observed, but no NAPL saturation).

To the west of the Site and the 1 Rewe Street property, the limit of visible impacts in this interval has been delimited by SB-42 in the center of the 1 Rewe Street property and the five borings along Vandervoort Avenue (SB-1B, SB-1C, SB-6B, SB-23, SB-24 and SB-32).

A narrow and limited zone of NAPL saturation extends onto the Greenpoint Energy Center property to the north as shown by a 2 foot NAPL saturated interval from 34 to 36 ft bgs at SB-33. However, as shown on Figure 5-3, this narrow and limited zone of NAPL extends back to the Site through SB-27, but does not extend to the east, north or west at borings SB-34, SB-35, and GPEC-SB-334.

5.2.3 Lower Clay Lens

As shown on Figure 5-4, saturated NAPL impacts above the lower clay lens do not extend beyond the Site boundary, and coincide with a trough on the lower clay surface. The trough extends from beneath the northeast part of the No.1 Relief Holder to the east across all three parcels of the Site, with the lens pinching out beneath the 254 Maspeth Avenue parcel near SB-22. Depths of the NAPL ranged from 73 ft bgs (-60.19 ft NAVD88) at SB-20 to 85 ft bgs (-72.06 ft NAVD88) at SB-16C. Thicknesses of saturated NAPL lenses ranged from 0.1 ft at SB-22 to 5 ft at SB-29. NAPL saturated lenses extend from 73 to 80 ft bgs at SB-20, and a gauged DNAPL thickness of 4.8 ft was measured in the former dust suppression well PW-1, which is screened above the lower clay lens.

5.2.4 Gardiners Clay

Saturated NAPL was observed at three borings on the Gardiners Clay surface at locations beyond the limits of the lower clay or proximal to where the lower clay pinches out (Figure 5-5). These locations include SB-22 on the southern border of 254 Maspeth Avenue, SB-27 off-Site to the north at the Greenpoint Energy Center, and SB-1C southwest of former No. 1 Relief Holder along Vandervoort Avenue. NAPL was not observed to extend beyond these locations on the Gardiners Clay surface. Similar to the intermediate clay and the lower clay lens, NAPL migration follows the surface topography of the Gardiners Clay surface. Depths to saturated NAPL above the Gardiners Clay ranged from 80 ft bgs (-66 ft NAVD88) at SB-27 to 92.5 ft bgs (-79.86 ft NAVD88) at SB-22, with thicknesses of the observed saturated NAPL lenses that ranged from 0.2 ft at SB-1C to 3.5 ft at SB-22. The presence of NAPL at SB-22 is interpreted to be the result of the lower clay lens pinching out in close proximity to the boring at a location that correlates to a topographic high in the Gardiners Clay such that any NAPL perching on the lower clay lens in this area would migrate to the top of the Gardiners Clay in this area, as illustrated when comparing Figures 5-4 and 5-5.

5.3 Soil Analytical Results

During the RI activities, 56 borings and four test pits were installed and sampled. In addition, nine test pits were installed and sampled as part of the Pre-Design Investigation for Shallow Soil. A total of 171 soil samples, including nine duplicate samples, were collected and analyzed. A list of the soil samples collected and the analyses performed is provided in Table 3-1. The soil analytical results are summarized in Tables 5-3 through 5-10.

The evaluation of the soil results in the following sections is based on a comparison to the Unrestricted Use Soil Cleanup Objectives (Unrestricted Use SCOs) from 6 CRR-NY 375-6.8, Table 375-6.8(a) and the Restricted Use Soil Cleanup Objectives for Industrial Use (Industrial Use SCOs) from 6 CRR-NY 375-6.8., Table 375-6.8(b). For the constituents of interest in this RI, the Industrial Use SCO is always above the Unrestricted Use SCO. In Tables 5-3 through 5-10, where a result is above the MDL, the result is shown with a bold font; where a result is above the Unrestricted Use SCO but less than or equal to the Industrial Use SCO, the result is shaded grey; and where the result is above the Industrial Use SCO, the result is shaded yellow.

5.3.1 Surface Soils

Surface soil was sampled at four locations. The results of the surface soil samples are summarized in Tables 5-3 through 5-5. Per the RI Work Plan, four surface soil samples (and one duplicate sample) were collected from the former Site (see Figure 3-1). It should be noted that the locations where these surface soil samples were collected have since been either excavated or covered over by the property owner.

VOCs, including BTEX, were not detected in the surface soil samples (Table 5-3). Several PAHs were detected above the Unrestricted Use SCOs but below the Industrial Use SCOs in three of the samples. In sample SS-02, two PAHs were detected above the Unrestricted Use SCOs but below the Industrial Use SCOs in the primary sample, but the results from the duplicate sample were below the Unrestricted Use SCOs. Only benzo(a)pyrene was detected in three of the samples at concentrations above its Industrial Use SCO. Total PAH concentrations ranged between 6.03 mg/kg and 92.33 mg/kg in the surface soil samples. A few other SVOCs were detected at concentrations below the Unrestricted Use and Industrial Use SCOs as summarized in Table 5-4. Note that PAHs are ubiquitous in the urban environment and can be associated with run-off from asphalt pavement and atmospheric deposition.

Several metals were detected in each surface soil sample at concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs (Table 5-5). Free cyanide was not detected in any of the surface soil samples (Table 5-5).

PCB aroclors were detected in all of the surface soil samples (Table 5-5) collected from fill emplaced following cessation of MGP operations. The total PCB concentrations ranged from 0.151 mg/kg to 0.258 mg/kg and were above the Unrestricted Use SCO of 0.1 mg/kg but below the Industrial Use SCO of 25 mg/kg. Several pesticides were detected in all of the surface soil samples at concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs (Table 5-5). These included 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, and endrin. A couple herbicides were detected in each sample but below the Unrestricted Use SCOs. PCBs and pesticides are not associated with MGPs and are interpreted to be related to the presence of urban fill emplaced following cessation of MGP operations.

5.3.2 Subsurface Soils

The results of the subsurface soil samples are summarized in Tables 5-6 through 5-10. A total of 166 subsurface soil samples (including eight duplicate samples) were collected from the borings and test pits advanced as part of the RI and the Pre-Design Investigation for Shallow Soil. The intervals sampled and visible impacts observed at each boring and test pit location are summarized in Tables 3-1 and 5-1, respectively, and are shown on the soil boring and test pit logs in Appendices D and E, respectively.

5.3.2.1 Volatile Organic Compounds

In order to facilitate discussion of the soil VOC and SVOC sampling results, the subsurface was divided into four zones by depth: 0 to 20 ft bgs, 20 to 40 ft bgs, 40 to 60 ft bgs, and 60 ft bgs or greater. The VOC and SVOC soil results are presented on Tables 5-6 and 5-7 and Figures 5-6 through 5-9. A number of constituents in the list of analytes, including BTEX and PAHs, are commonly associated with MGP by-products, but are also found in a variety of petroleum related products associated with the other industrial/manufacturing sources that have been identified in the RI Study Area. Additionally, the list of analytes includes synthetic chemicals, e.g. chlorinated and non-chlorinated solvents that had not yet been developed or commonly used during the period of operation of the MGP. As a result, these constituents, if detected, are associated with non-MGP sources.

0 to 20 ft bgs

BTEX compounds were detected in many of the 71 subsurface soil samples collected from 0 to 20 ft bgs. Individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in 22 of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only two of these subsurface samples: SB-10(16-18) and SB-13(18-24). As shown on Figure 5-6, boring SB-10 was located next to the former tar tank and settling tank, and SB-13 was located under former Holder No. 1. These two samples were collected at depths coincident with NAPL saturated visible impacts (Table 5-1).

Four VOCs other than BTEX compounds were detected in subsurface soil samples collected from 0 to 20 ft bgs at concentrations above the Unrestricted Use SCOs; however, none of these detections were above the Industrial Use SCOs, as summarized in Table 5-6. Acetone was detected in a number of samples above its Unrestricted Use SCO. In sample T1-SB7(16.5-17.5), 1,2-dichlorobenzene, 1,4-dichlorobenzene and chlorobenzene were detected above the Unrestricted Use SCOs. This boring was located directly east of the former off-Site fuel oil bulk storage area, in the area of the former 10,000 gallon USTs identified on the west side of the FedEx building (Figure 3-1). This sample was collected at a depth coincident with NAPL saturated visible impacts and a naphthalene-like odor (Table 5-1).

20 to 40 ft bgs

BTEX compounds were detected in many of the 33 subsurface soil samples collected from 20 to 40 ft bgs. Individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in 20 of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only three of these subsurface samples: SB-3(36-38) (from boring SB-3B), SB-8(24-26) and SB-33(35-36). As shown on Figure 5-7, boring SB-3B was located at the northeast corner of the form generator building; boring SB-8 was located under former Holder No. 1, and boring SB-33 was located north of the Site on the Greenpoint Energy Center. These three samples were collected at depths coincident with NAPL saturated visible impacts (Table 5-1).

Two VOCs other than BTEX compounds were detected in subsurface soil samples collected from 20 to 40 ft bgs at concentrations above the Unrestricted Use SCOs. Acetone was detected in four samples above its Unrestricted Use SCO, and 2-butanone was detected in one sample. However, none of these detections were above the Industrial Use SCOs, as summarized in Table 5-6.

40 to 60 ft bgs

BTEX compounds were detected in many of the 28 subsurface soil samples collected from 40 to 60 ft bgs. Individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs

in nine of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only one of these subsurface samples: SB-43(45-48). As shown on Figure 5-8, boring SB-43 is located south of the Site and just west of the former off-Site fuel oil bulk storage area. This sample was collected at a depth coincident with NAPL saturated visible impacts (Table 5-1).

No other VOCs other than BTEX compounds were detected in subsurface soil samples collected from 40 to 60 ft bgs at concentrations above the Unrestricted Use SCOs, as summarized in Table 5-6.

60 ft bgs or Greater

BTEX compounds were detected all but two of the 27 subsurface soil samples collected from 60 ft bgs or greater. Individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in nine of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only two of these subsurface samples: SB-27(80-85) and SB-29(98). As shown on Figure 5-9, boring SB-27 was located north of the Site on the Greenpoint Energy Center, and SB-29 was located northeast of the former settling tank at 252 Maspeth Avenue. The sample from SB-27 was collected at a depth coincident with NAPL saturated visible impacts (Table 5-1). At SB-29, no visible impacts were reported for the sampled interval, however, staining and a trace sheen was reported just above the sampled interval.

There was only one detection of a VOC other than BTEX compounds (acetone) in subsurface soil samples collected from 60 ft bgs or greater at a concentration above the Unrestricted Use SCOs, but below the Industrial Use SCOs, as shown in Table 5-6.

5.3.2.2 Semivolatile Organic Compounds

As mentioned above, the subsurface soil VOC and SVOC sampling results were divided into four zones by depth to facilitate discussion. The results are presented on Tables 5-6 and 5-7 and Figures 5-6 through 5-9.

0 to 20 ft bgs

PAH compounds were detected in all but two of the 71 subsurface soil samples collected from 0 to 20 ft bgs. Individual PAH compounds were detected at concentrations above the Industrial Use SCOs in 54 of these subsurface samples. An additional four samples had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Figure 5-6 illustrates these results.

Seven SVOCs other than PAH compounds were detected in subsurface soil samples collected from 0 to 20 ft bgs at concentrations above the Unrestricted Use SCOs, but only one of these detections was above the Industrial Use SCO (dibenzofuran), as summarized in Table 5-7. Phenolic compounds (including 2-methylphenol, 3-and 4-methylphenol, 4-methylphenol, and phenol) were detected in eight samples from seven locations at concentrations above the Unrestricted Use SCOs. All but one of these locations was located on the Site. Sample T1-SB7 (16.5-17.5) had detections of 1,2-dichlorobenzene and 1,4-dichlorobenzene above the Unrestricted Use SCOs, similar to the results discussed above for VOCs. Dibenzofuran was detected in 15 samples at concentrations above its Unrestricted Use SCO and in one sample above its Industrial Use SCO (TP-16(5-6) – this sample location has since been excavated).

20 to 40 ft bgs

PAH compounds were detected in all but four of the 33 subsurface soil samples collected from 20 to 40 ft bgs. Individual PAH compounds were detected at concentrations above the Industrial Use SCOs in 14 of these subsurface samples. One additional sample had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Figure 5-7 illustrates these results.

Four SVOCs other than PAH compounds were detected in subsurface soil samples collected from 20 to 40 ft bgs at concentrations above the Unrestricted Use SCOs; however, none of these detections were above the Industrial Use SCOs, as summarized in Table 5-7. Phenolic compounds (including 2-methylphenol, 3-and 4-methylphenol, and phenol) were detected in four samples at concentrations above the Unrestricted Use SCOs. Dibenzofuran was detected in seven samples above its Unrestricted Use SCO.

40 to 60 ft bgs

PAH compounds were detected in 17 of the 28 subsurface soil samples collected from 40 to 60 ft bgs. Individual PAH compounds were detected at concentrations above the Industrial Use SCOs in only three of these 28 subsurface samples. One additional sample had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Figure 5-8 illustrates these results.

Dibenzofuran was the only non-PAH SVOC compound detected in subsurface soil samples collected from 20 to 40 ft bgs at concentrations above the Unrestricted Use SCOs, and neither of those two detections were above the Industrial Use SCOs, as summarized in Table 5-7.

60 ft bgs or Greater

PAH compounds were detected in 16 of the 27 subsurface soil samples collected from 60 ft bgs or greater. Individual PAH compounds were detected at concentrations above the Industrial Use SCOs in only six of these 27 subsurface samples. No other samples had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Figure 5-9 illustrates these results.

No SVOCs other than PAH compounds were detected in subsurface soil samples collected from 60 ft bgs or greater at concentrations above the Unrestricted or Industrial Use SCOs.

5.3.2.3 Cyanide

Total cyanide was detected in seven of the sixteen soil samples analyzed, as summarized on Table 5-8. Detections ranged from 0.16 J mg/kg in SB-29 (0-5) to 27.5 mg/kg in TP-16 (5-6). Only the detection from TP-16(5-6) exceeded the Unrestricted Use SCO of 27 mg/kg, however, this sample location has since been excavated.

Free cyanide was detected in only three of the seventy-two samples analyzed. Detections ranged from 0.75 mg/kg in SB-8 (24-26) to 12.4 mg/kg in SB-13 (18-24).

Available cyanide was detected in eight of the seventeen samples analyzed. Detections ranged from 0.055 mg/kg in SB-19 (2-5) to 0.853 J mg/kg in TP-4 (7-7.5) (note that this sample location has since been excavated).

Part 375-6 does not include SCOs for free or available cyanide, however, the detected concentrations are below the Unrestricted Use SCO for total cyanide which is 27 mg/kg.

5.3.2.4 Metals

At least one metal was detected in all of the subsurface soil samples analyzed, as summarized in Table 5-8.

Only five metals had soil detections above the Industrial Use SCOs: arsenic, lead, manganese, mercury, and zinc. For arsenic, twenty-three samples had a concentration above the Industrial Use SCO of 16 mg/kg. These results ranged from 16.5 mg/kg at SB-12 (1-2) to 68.8 mg/kg at SB-19 (2-5). All but two of these samples were from 20 ft bgs or shallower. For lead, only two samples exceeded the Industrial Use SCO of 3,900 mg/kg: SB-12 (4-5) at 5,690 mg/kg (however, this sample was from an area that has since been excavated) and SB-45 (18-20) at 18,800 J mg/kg. For mercury, only two samples exceeded the Industrial Use SCO of 5.7 mg/kg: SB-22 (0-5) at 9.2 mg/kg (however, this sample was from an area that has since been excavated) and SB-41 (5-10) at 12.8 mg/kg. The only exceedances of the Industrial Use SCOs for manganese and zinc (both are 10,000 mg/kg) came from SB-45 (18-20) (manganese at 14,200 mg/kg and zinc at 11,400 J mg/kg).

The majority of samples had at least one metal detected above the Unrestricted Use SCOs but below the Industrial Use SCOs. These metals include barium, cadmium, chromium, copper, nickel, selenium and silver. These detections are not considered related to the operation of the former MGP and are more likely related to the presence of urban fill.

5.3.2.5 Pesticides and Herbicides

Pesticides and herbicides were detected in 10 of the 15 subsurface soil samples analyzed, as summarized in Table 5-9. None of the results exceeded the Industrial Use SCOs. None of the detections of herbicides exceeded the Unrestricted Use SCOs. The following pesticides were detected in at least one sample above the Unrestricted Use SCOs but below the Industrial Use SCOs: aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin. The pesticide 4,4'-DDT was detected above its Unrestricted Use SCO in the most samples (nine samples).

5.3.2.6 Polychlorinated Biphenyls

PCB aroclors were analyzed in 45 of the subsurface soil samples (including one duplicate sample), as summarized in Table 5-9. Most of these samples were from 20 ft bgs or shallower. PCBs were detected in 15 of those samples with total PCB concentrations ranging from 0.0495 mg/kg in T2-SB4 (5-10) to 5.85 mg/kg in SB-17 (1-2). No Unrestricted Use or Industrial Use SCOs are listed for individual aroclors; however, the total PCB Unrestricted Use SCO is 0.1 mg/kg and the total PCB Industrial Use SCO is 25 mg/kg. All but two of the detections were above the Unrestricted Use SCO for total PCBs but below the Industrial Use SCO. Twelve of the 13 samples above the Unrestricted Use SCOs were from the top 6.5 ft of the surface material of the Site in fill placed following cessation of MGP operations. The remaining sample above Unrestricted use SCOs was collected at an offsite location (300 Maspeth Avenue).

The two deepest detections of PCBs in subsurface soils were noted at T1-SB7 (16.5 to 17.5 ft bgs) and T2-SB4 (5 to 10 ft bgs) collected at the 300 Maspeth Avenue property. Boring T1-SB7 was located directly east of the former off-Site fuel oil bulk storage area, in the area of the former 10,000 gallon USTs identified on the west side of the FedEx building (Figure 3-1). Boring T2-SB4 is located approximately 100 ft south of T1-SB7.

5.3.2.7 Total Petroleum Hydrocarbons

During the RI activities and the Pre-Design Investigation for Shallow Soil, 11 soil samples (including one duplicate sample) were analyzed for total petroleum hydrocarbons (TPH). In addition, 40 other samples (including two duplicate samples) were analyzed for diesel range organics (DRO) and gasoline range organics (GRO). The results are summarized on Table 5-10.

TPH detections ranged from 52.5 mg/kg [T1-SB8 (17-18.5)] to 17,500 mg/kg [T1-SB7 (22-23)]. The highest detections were from the borings directly east of the former off-Site fuel oil bulk storage area, in the area of the former 10,000 gallon USTs identified on the west side of the FedEx building. This area was given NYSDEC SPILL # 0204002 due to black stained soil with strong petroleum odor observed during underpinning work by GFE (GFE, 2002).

DRO was detected in 37 of the 40 samples at concentrations ranging from 13 mg/kg [SB-43 (49-50)] to 160,000 mg/kg [TP-16 (5-6)]. The highest detections were at TP-16 (5-6) (note that this area has since been excavated) and T5-SB2 (18-19) which is located on the east side of the FedEx building near monitoring well MW-16A. Concentrations of DRO were elevated at SB-47(10-14) advanced within the former bulk oil storage facility beneath 9 Rewe Street, consistent with the type of fuels (fuel oil) reportedly stored at that facility. Concentrations of DRO also decreased with depth at SB-47, as expected given the lighter-than-water nature of the materials (fuel oil) formerly stored in this area.

GRO was detected in 18 of the 40 samples at concentrations ranging from 1.9 mg/kg [SB-41(5-10)] to 2,500 mg/kg [SB-40 (20-23.5)]. The highest detections were at SB-40 (located to the west of the former No. 1 Relief Holder in soils coated with black viscous NAPL) and SB-43 (located to the south of the Site just west of the former off-Site fuel oil bulk storage area beneath the 9 Rewe Street building).

5.3.2.8 Summary

In the upper 20 ft of the subsurface, the horizontal extent of BTEX and PAH impacts was delineated by borings to the west along Vandervoort Ave and to the south on the 1 Rewe Street and 7-9 Rewe Street properties and the southern portion of the FedEx property, as shown on Figure 5-6. To the north, impacts were partially delineated onto National Grid's Greenpoint Energy Center which is currently being investigated under a separate RI under NYSDEC oversight. Soils east of the Site have been largely delineated with the exception of one boring T5-SB2, where there was a trace NAPL coating observed from 18.0-18.5 ft bgs within the sample interval. Samples from this boring on the east side of the FedEx building had BTEX and/or PAH results above the Industrial Use SCOs. This area is also east of the former 10,000 gallon USTs identified on the west side of the FedEx building and south of NYSDEC Spill #0202804 where 20 former USTs were excavated at the northeast corner of the FedEx building (GFE, 2002). To the north of the Site, six borings were installed on the property as shown on Figure 5-2. Delineation is complete at the western most boring on the property at SB-34 where the highest PID reading was 1.1 ppm at 18-20 ft bgs. However, to the northwest, maximum PID reading at SB-33 and SB-35 were 37.5 ppm (18-20 ft bgs) and 62.7 ppm (16-19 ft bgs), respectively. As shown in GEI borings GPEC-SB222, GPEC-SB331, GP-SB333, and GP-SB334 (Appendix D), sheens and staining with PID values above 100 ppm in the upper 20 ft are present south of the former MGP holder at the Greenpoint Site.

From 20 to 40 ft bgs (Figure 5-7), the horizontal extent of BTEX and PAH impacts is similarly delineated to the west and south. In addition, borings across Maspeth Ave provide delineation to the north, and the eastern most on-Site borings (SB-04C, SB-18 and SB-07B) provide delineation on the southeast corner of the Site.

Vertical delineation of BTEX and PAH impacts in soils is shown on Figures 5-8 and 5-9, where a small number of samples taken from 40 ft bgs or greater had BTEX and/or PAH concentrations above the Unrestricted Use SCOs and even fewer had concentrations above the Industrial Use SCOs. As shown on Figure 5-9, none of the deepest samples exceeded the Industrial Use SCOs for BTEX and/or PAHs. It is important to note that the nature and extent of environmental impacts is affected by a number of factors including historic land use and the contribution from surrounding sources. In an area with a complex history of industrial use such as the RI Study Area, it can be difficult to confirm the origin of delineated impacts, which may be the result of commingled sources in some areas.

5.4 Groundwater Analytical Results

During the RI, 38 monitoring wells were installed and sampled. A total of 42 samples, including four duplicate samples, were collected and analyzed. In addition, a sample was collected from the existing on-Site pumping well (PW-1) and groundwater grab samples were collected from two borings (GW-1 and SB-20J). A list of the groundwater samples collected and the analyses performed is included in Table 3-1. The groundwater analytical results are summarized in Tables 5-11 through 5-14. The evaluation of the groundwater results in the following sections is based on a comparison to the Ambient Water Quality Standards and Guidance Values (AWQSGVs) provided in the NYSDEC - Division of Water – Technical Operation Guidance Series (TOGS) (1.1.1) [NYSDEC, 1998, with addendums]. In Tables 5-11 through 5-14, where a result is above the MDL, the result is shown with a bold font, and where a result is above the respective AWQSGV, the result is shaded. Note that the results are compared to the AWQSGVs as per NYSDEC Guidance; however, New York City provides potable water to Brooklyn, and potential exposure related to the consumption of groundwater is not a concern.

5.4.1 Shallow Well Groundwater Samples

Twelve (12) shallow monitoring wells were installed during the RI. Except for MW-19A, these wells have 10-foot screened sections between 2.5 and 18 ft bgs, as summarized on Table 3-4. Well MW-19A has a 15-foot screen from 8 to 23 ft bgs. In addition, one groundwater grab sample was taken from a temporary well screen set from 5 to 15 ft bgs in boring SB-14B. The analyses performed for each well are summarized in Table 3-1. In total 14 shallow groundwater samples (including the groundwater grab sample and one duplicate sample) were collected and analyzed. A summary of the analytical results are tabulated in Tables 5-11 through 5-14.

5.4.1.1 Volatile Organic Compounds

Seven of the 14 shallow groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs. BTEX compounds were not detected at four locations: MW-1A, MW-16A, MW-17A and MW-19A. Benzene was detected at MW-6A but not at a concentration above its AWQSGV. These wells are located along the western and southern perimeters of the Site.

Where detected, total BTEX concentrations ranged from 0.13 µg/L (MW-8A) to 15,500 µg/L (GW-1). As illustrated on Figure 5-10, the highest BTEX concentrations were detected in the vicinity of former Holder No. 1, the former Separator, and the former No. 1 and No. 2 Oil Tanks.

BTEX was also detected at concentrations above the AWQSGVs in well MW-18A which is located on the eastern border of the FedEx property line. This well is in same area as GFE well MW-7 advanced in response to NYSDEC Spill #0202804.

Other VOCs detected at concentrations above the AWQSGVs (see Table 5-11) include: acetone, isopropyl benzene, MTBE, and styrene. The groundwater grab sample, GW-1, contained MTBE (a gasoline additive in use from 1979, decades after cessation of MGP operations), isopropyl benzene, and styrene at concentrations above the AWQSGVs. These other VOCs detected indicate the contribution of off-Site sources to shallow groundwater.

5.4.1.2 Semivolatile Organic Compounds

Six of the 14 shallow groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs.

Where detected, total PAH concentrations ranged from 0.82 µg/L (MW-16A) to 36,627 µg/L (GW-1). As illustrated on Figure 5-10, the highest PAH concentrations were detected in the vicinity of former Holder No. 1, the former Separator, and the former No. 1 and No. 2 Oil Tanks.

Of the seventeen PAH compounds, only four PAHs (2-methylnaphthalene, acenaphthylene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene) were not detected in at least one shallow groundwater sample at concentrations above the AWQSGVs.

PAH compounds were not detected at five locations: MW-1A, MW-6A, MW-8A, MW-17A and MW-19A. At MW-2A and MW-16A, PAH compounds were detected but below the AWQSGVs. As shown on Figure 5-10, concentrations of PAHs above the AWQSGVs are limited to shallow wells on the Site and well MW-18A, located to the east of the FedEx building. In MW-18A, the only PAH concentration that exceeded its AWQSGV was naphthalene. This well is in same area as GFE well MW-7 advanced in response to NYSDEC Spill #0202804.

Several other SVOCs were detected at concentrations above the AWQSGVs in at least one sample (Table 5-12) including: 1,1'-biphenyl, 2,4-dimethylphenol, and phenol. Only samples from GW-1, MW-3A, MW-4A, MW-5A, and MW-18A had SVOCs other than PAHs detected at concentrations above the AWQSGVs.

5.4.1.3 Metals

Samples from eight of the 12 shallow monitoring wells, and the groundwater grab sample (GW-1), were analyzed for metals. Several metals were detected at concentrations above the AWQSGVs in shallow groundwater, as summarized in Table 5-13.

The metals detected at concentrations above AWQSGVs most frequently include iron, magnesium, manganese, and sodium. These metals are not related to MGP operations.

Antimony and arsenic were each detected at concentrations above AWQSGVs in three to five of the shallow groundwater samples. Antimony was above AWQSGVs in the groundwater samples collected from GW-1, MW-2A and MW-6A. Arsenic was detected at concentrations above AWQSGVs in the groundwater samples collected from GW-1, MW-3A and MW-4A.

Several metals were detected at concentrations above AWQSGVs in two or fewer shallow groundwater samples, including: beryllium, chromium, copper, nickel, selenium in GW-1; and lead, mercury, and thallium in GW-1 and MW-6A.

5.4.1.4 Total Cyanide

Samples from the twelve shallow monitoring wells, and the groundwater grab sample (GW-1), were analyzed for total cyanide, as summarized on Table 5-13.

Total cyanide was detected in 8 of the 13 shallow groundwater samples and ranged in concentration from 12.1 µg/L (GW-1) to 408 µg/L (MW-4A). Total cyanide was detected at concentrations above the AWQSGV of 200 µg/L in two of the 13 samples, those collected from MW-4A and MW-7A.

Total cyanide was not detected in the four off-Site wells located south and east of the former MGP facility (MW-16A, MW-17A, MW-18A, and MW-19A).

5.4.1.5 Polychlorinated Biphenyls

Four of the 12 shallow groundwater samples (including one duplicate sample) were analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in any of the four samples analyzed (Table 5-14).

5.4.1.6 Pesticides and Herbicides

Four of the 12 shallow groundwater samples (including one duplicate sample) were analyzed for pesticides and herbicides during the RI, and the results are summarized on Table 5-14.

No pesticides were detected in the samples from MW-1A and MW-3A.

Three pesticides (beta-BHC, 4,4'-DDD and 4,4'-DDE) were detected in both the primary and duplicate samples from MW-4A. Beta-BHC and 4,4'-DDE were detected above their AWQSGVs in both samples.

Four other pesticides and two herbicides were detected in either the primary or duplicate sample from MW-4A, but none of those pesticides were detected above their AWQSGVs (if listed).

5.4.2 Intermediate Well Groundwater Samples

Sixteen (16) intermediate monitoring wells were installed during the RI. These wells have 10-foot screened sections between 25.5 and 48 ft bgs, as summarized on Table 3-4. The analyses performed for each well are summarized in Table 3-1. A total of 15 intermediate well groundwater samples (including two duplicate samples) were collected and analyzed. A summary of the analytical results are tabulated in Tables 5-11 through 5-14.

5.4.2.1 Volatile Organic Compounds

Twelve (12) of the 15 intermediate groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs.

Where detected, total BTEX concentrations ranged from 15 µg/L (MW-6B) to 33,200 µg/L (MW-5B). As illustrated on Figure 5-11, the highest BTEX concentrations in the intermediate groundwater zone were detected in the vicinity of the former separator and west of the former No. 1 and No. 2 Oil Tanks, and at MW-19B south of and downgradient of the Site along Rewe Street.

BTEX constituents were detected at concentrations above the AWQSGVs in well MW-5B located adjacent to the former MGP operations area and MW-19B located south of the former MGP on Rewe Street (Figure 4-15). There were no observed impacts in screened zone at MW-19B. This well is also located downgradient of the former oil storage facility located beneath the 7-9 Rewe Street property. Petroleum stained shallow soils were observed just east of this area by GFE in 2002-2003 while performing underpinning work at the FedEx facility located at 300 Maspeth Avenue.

At MW-16B (east of the Site along the FedEx property line), only benzene was detected above its AWQSGV. Well MW-16B is screened at the top of the intermediate clay, and there were no observations of impacts noted in soils within the screened interval.

BTEX constituents were not detected at two locations: MW-17B and MW-18B, which are located off-Site to the south and west. No other VOCs were detected at these two locations at concentrations above the AWQSGVs.

BTEX is more prevalent and present at higher concentrations in the intermediate zone groundwater than in the shallow zone groundwater beneath the RI Study Area, consistent with the observation of visible subsurface impacts and locations where soil detections were above Industrial Use SCOs. The exception is at the MW-18A/B/C well cluster, where shallow groundwater had concentrations of BTEX compounds above the AWQSGVs but the intermediate groundwater did not have any detections of BTEX compounds. As stated previously, this well is in same area as GFE well MW-7 advanced in response to NYSDEC Spill #0202804.

Other VOCs detected at concentrations above the AWQSGVs (see Table 5-11) include: acetone, isopropyl benzene, styrene, and chlorinated VOCs. Chlorinated VOCs were detected at concentrations above the AWQSGVs in groundwater samples collected from wells MW-1B, MW-2B, MW-7B, MW-8B, and MW-19B. The first four wells listed are located on the Site, and MW-19B is off-Site to the south along Rewe Street. The highest tetrachloroethene (PCE) and trichloroethene (TCE) concentrations were found in well MW-1B, which is located cross-gradient / upgradient of the Site (Figures 4-14 and 4-15). Chlorinated VOCs are not associated with former MGP operations.

5.4.2.2 Semivolatile Organic Compounds

Seven of the 15 intermediate groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs.

Where detected, total PAH concentrations ranged from 3.0 µg/L (MW-1B) to 10,056 µg/L (MW-5B). As illustrated on Figure 5-11, the highest PAH concentrations were detected in the vicinity of the former separator and the former No. 1 and No. 2 Oil Tanks.

Ten (10) of the 17 PAH compounds were detected in at least one intermediate groundwater sample at concentrations above the AWQSGVs: acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and phenanthrene.

PAH compounds were not detected at four locations: MW-6B, MW-11B, MW-12B, and MW-17B. At MW-1B and MW-16B, PAH compounds were detected but below the AWQSGVs.

As shown on Figure 5-11, concentrations of PAHs above the AWQSGVs are limited to intermediate wells on the Site and off-Site wells MW-18B (located to the east of the FedEx building) and MW-19B

(located to the south along Rewe Street). At MW-18B, the only PAH concentration that exceeded its AWQSGV was naphthalene (similar to the results for the shallow groundwater well at this location). The naphthalene concentration decreased with depth at this location. At MW-19B, the only PAH concentrations that exceeded their AWQSGVs were for acenaphthene and naphthalene. PAH concentrations at this location increased with depth (PAHs were non-detect in MW-19A).

PAHs are more prevalent and present at higher concentrations in the intermediate zone groundwater than in the shallow zone groundwater beneath the RI Study Area, consistent with the observation of visible subsurface impacts and locations where soil detections were above Industrial Use SCOs. The exception is at the MW-18A/B/C well cluster, where the total PAH concentration decreased from 103.88 µg/L in the shallow groundwater to 27.53 µg/L in the intermediate groundwater. This well cluster is in same area as GFE well MW-7. This well was installed within the former excavation performed to remove twenty 550-gallon USTs and the 2 gallons of diesel released in 2002. This work was performed under NYSDEC Spill #0202804 (GFE, 2002).

Several other SVOCs were detected at concentrations above the AWQSGVs in at least one sample (Table 5-12) including: 1,1'-biphenyl, 2,4-dimethylphenol, bis(2-Ethylhexyl) phthalate, and phenol. Only samples from MW-2B, MW-4B, MW-5B, MW-7B, MW-11B, MW-17B, MW-18B and MW-19B had SVOCs other than PAHs detected at concentrations above the AWQSGVs.

5.4.2.3 Metals

A total of 10 intermediate well samples (including one duplicate sample) were analyzed for metals, and the results are summarized in Table 5-13.

Several metals were detected at concentrations above the AWQSGVs in intermediate groundwater. The metals detected at concentrations above AWQSGVs most frequently include iron, magnesium, and sodium. These metals are not related to MGP operations.

Arsenic, barium, copper and manganese were each detected at concentrations above AWQSGVs in two or fewer intermediate groundwater samples. Arsenic and copper were above AWQSGVs in the groundwater sample collected from MW-4B. Barium was above its AWQSGV in the groundwater sample collected from MW-11B. Manganese was above its AWQSGV in the groundwater samples collected from MW-1B and MW-7B.

5.4.2.4 Total Cyanide

All 15 samples from the intermediate monitoring wells (including two duplicate samples) were analyzed for total cyanide, as summarized on Table 5-13.

Total cyanide was detected in 11 of the 15 intermediate groundwater samples and ranged in concentration from 11.4 µg/L (MW-2B) to 202 µg/L (MW-5B). Total cyanide was detected at a concentration slightly above the AWQSGV of 200 µg/L in only one sample: MW-5B at 202 µg/L.

5.4.2.5 Polychlorinated Biphenyls

One of the 15 intermediate groundwater samples (MW-1B) was analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in this sample (Table 5-14).

5.4.2.6 Pesticides and Herbicides

One of the 15 intermediate groundwater samples (MW-1B) was analyzed for pesticides and herbicides during the RI. Pesticides and herbicides were not detected above the reporting limit in this sample (Table 5-14).

5.4.3 Deep Well Groundwater Samples

Twelve (12) deep monitoring wells were installed during the RI and generally screened above the top of the Gardiners Clay. These wells have 10-ft screened sections between 67 and 110 ft bgs, as summarized on Table 3-4. In addition the existing on-Site pumping well has a 15-foot screen from 63 to 78 ft bgs. The analyses performed for each sample are summarized in Table 3-1. A total of 14 deep well groundwater samples (including one duplicate sample) were collected and analyzed. A summary of the analytical results are tabulated in Tables 5-11 through 5-14.

5.4.3.1 Volatile Organic Compounds

Ten (10) of the 14 deep groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs.

Where detected, total BTEX concentrations ranged from 0.26 µg/L (MW-10C) to 14,870 µg/L (MW-3C). As illustrated on Figure 5-12, the highest BTEX concentrations in the deep groundwater zone were detected on-Site near the on-Site pumping well (PW-1 and MW-8C) and east of this area at MW-3C.

An elevated total BTEX concentration (2,973 µg/L) was also reported for off-Site well MW-16C, located downgradient of the Site to the east of the FedEx building. Well MW-16C screened above the Gardiners Clay, at a low spot in the top of the clay surface. The total BTEX concentration was two orders of magnitude lower in the intermediate groundwater at this well cluster (15.7 µg/L) and non-detect in the shallow groundwater.

At downgradient well MW-19C, only benzene was detected above its AWQSGV and the total BTEX concentration (16.88 µg/L) was two orders magnitude lower than in intermediate groundwater at this location (9,445 µg/L). BTEX compounds were not detected in the shallow groundwater at this location.

BTEX constituents were not detected at two locations: MW-17C and MW-18C (similar to the intermediate zone), which are located off-Site to the south and west. At MW-18C, two chlorinated VOCs were detected at concentrations above the AWQSGVs; however, at MW-17C no other VOCs were detected at concentrations above the AWQSGVs. Chlorinated VOCs are not associated with former MGP operations.

BTEX in the deep zone groundwater is consistent with the observation of visible subsurface impacts and locations where soil detections were above Industrial Use SCOs. The exceptions are at the MW-4 and MW-18 well clusters, where shallow groundwater had the highest total BTEX concentrations, and at the MW-19 well cluster where the intermediate groundwater had the highest total BTEX concentration.

Other VOCs detected at concentrations above the AWQSGVs (see Table 5-11) include: isopropyl benzene, styrene, and chlorinated VOCs. Chlorinated VOCs were detected at concentrations above the AWQSGVs in groundwater samples collected from all the deep wells except well MW-17C (located off-Site southeast of the Site along Rewe Street). At wells MW-9C, MW-10C, and MW-18C,

the only VOCs with concentrations above the AWQSGVs were chlorinated VOCs. Wells MW-9C and MW-10C are located to the west of the Site along Vandervoort Ave. Well MW-18C is located off-Site east of the FedEx building. Chlorinated VOCs are not associated with former MGP operations.

5.4.3.2 Semivolatile Organic Compounds

Eight of the 14 deep groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs.

Where detected, total PAH concentrations ranged from 3.0 µg/L (MW-17C) to 3,883 µg/L (PW-1). As illustrated on Figure 5-12, the highest PAH concentrations in the deep groundwater zone were detected on-Site at or near the former on-Site pumping well (PW-1 and MW-8C), at MW-3C and near the former No. 1 and No. 2 Oil Tanks.

An elevated total PAH concentration (1,207.8 µg/L) was also reported for off-Site well MW-16C, located to the east of the FedEx building. The total PAH concentration increased with depth at this location (MW-16B - 9.4 µg/L and MW-16A - 0.82 µg/L). This pattern is similar to that observed for BTEX at this well cluster.

PAH compounds were not detected at three locations: MW-9C, MW-10C and MW-18C. Wells MW-9C and MW-10C are located upgradient and to the west of the Site along Vandervoort Ave. Well MW-18C is located off-Site to the east of the FedEx building. No other SVOCs were detected at concentrations above the AWQSGVs at these locations.

PAHs in deep zone groundwater are consistent with the observation of visible subsurface impacts and locations where soil detections were above Industrial Use SCOs. The exceptions are at the MW-4 and MW-18 well clusters, where shallow groundwater had the highest total PAH concentrations, and at the MW-19 well cluster where the intermediate groundwater had the highest total PAH concentration.

Several other SVOCs were detected at concentrations above the AWQSGVs in at least one sample (Table 5-12) including: 1,1'-biphenyl, bis(2-Ethylhexyl) phthalate, and phenol. Only six samples (from PW-1, MW-1C, MW-3C, MW-4C, MW-8C, and MW-11C) had SVOCs other than PAHs detected at concentrations above the AWQSGVs.

5.4.3.3 Metals

Ten deep well samples (including one duplicate sample) were analyzed for metals, and the results are summarized in Table 5-13.

Several metals were detected at concentrations above the AWQSGVs in deep groundwater, including iron, magnesium, manganese, and sodium. These metals are not related to MGP operations. No other metals were detected at concentrations above AWQSGVs in the deep groundwater samples.

5.4.3.4 Total Cyanide

All 14 samples from the deep monitoring wells (including one duplicate sample) were analyzed for total cyanide, as summarized on Table 5-13.

Total cyanide was detected in nine of the 14 deep groundwater samples and ranged in concentration from 6.0 J µg/L (MW-9C) to 100 µg/L (MW-18C). Total cyanide was not detected in any of the deep groundwater samples at a concentration above the AWQSGV of 200 µg/L.

5.4.3.5 Polychlorinated Biphenyls

Two of the 14 deep groundwater samples (MW-1C and MW-3C) were analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in these samples (Table 5-14).

5.4.3.6 Pesticides and Herbicides

Two of the 14 deep groundwater samples (MW-1C and MW-3C) were analyzed for pesticides and herbicides during the RI. Pesticides and herbicides were not detected above the reporting limit in these samples (Table 5-14).

5.4.3.7 Summary

Dissolved phase impacts in shallow zone (water table) wells are largely isolated to the former Site boundary, with significantly lower levels (typically low to non-detect) at upgradient wells along Vandervoort Avenue and at downgradient and crossgradient wells along Rewe Street and at FedEx. The highest levels of dissolved BTEX and PAHs in water table wells were noted at GW-1 adjacent to former No. 1 Relief Holder and at MW-4A adjacent to the former No. 1 and No. 2 Oil Tanks (Figure 5-10).

Dissolved phase impacts in the intermediate portion of the overburden aquifer are generally the highest observed in the RI Study Area, consistent with this zone containing the most widespread presence of NAPL. Dissolved BTEX and PAHs were highest at on-Site wells MW-5B and MW-7B and decreasing in the direction of groundwater flow towards MW-19B along Rewe Street (Figure 5-11). Low (< 100 µg/L) to non-detectable levels of BTEX and PAHs were noted at upgradient wells along Vandervoort Avenue and at downgradient and cross-gradient wells to the east of the Site at FedEx. Given the trends observed in the data, it is likely that dissolved phase concentrations of these constituents will decrease further at locations outside of the RI Study Area due to biodegradation, attenuation, and dilution.

Dissolved phase impacts in the deepest portion of the overburden aquifer above the Gardiners Clay are generally consistent with the overlying intermediate zone. Dissolved BTEX and PAHs were highest at MW-3C and MW-8C within the Site boundary and decreasing in the direction of groundwater flow towards MW-16C along the eastern side of the 300 Maspeth Avenue property (Figure 5-12). Low (< 100 µg/L) to non-detectable levels of BTEX and PAHs were noted at upgradient wells along Vandervoort Avenue and at downgradient and cross-gradient wells MW-17C and MW-18C to the east of the Site at FedEx.

The dissolved-phase impacts are the result of a number of factors including geologic conditions, groundwater flow patterns and the presence of source material in soil. As indicated previously, source material in the RI Study Area may originate from a number of sources with similar characteristics. As a result, the dissolved phase impacts may be associated with commingled sources. The potential for commingled impacts is supported by the presence of constituents, such as chlorinated solvents, which were not in use during the period of operation of the MGP.

5.5 Non-Aqueous Phase Liquid Baildown Testing Results

On March 12, 2010, DNAPL baildown tests were successfully initiated at wells PW-1 and MW-3B (Figure 3-1), which had initial DNAPL thicknesses and volumes of 2.61 ft / 6 gallons and 5.18 ft / 3 gallons, respectively. During purging slightly more than the total effective well volume (volume within the well casing plus pore space in the sand pack) was removed from each well. Following the removal

of DNAPL thicknesses from these wells, the wells were gauged periodically to assess the rate of DNAPL recovery in each well. The DNAPL in MW-3B recovered to its initial thickness after approximately 5 days. DNAPL in well PW-1 had not recovered a measurable amount of DNAPL thickness as of April 2nd, 2010 (21 days after removing the DNAPL).

Based on the recovery data, DNAPL around well MW-3B was considered recoverable while the data at PW-1 indicated a significantly lower potential for recoverability given the lack of DNAPL recovery observed at this well over time.

In February 2012, DNAPL baildown recovery tests were performed at wells MW-14B and MW-15B. MW-14B showed a low potential for recoverability and well MW-15B showed a relatively high potential for recoverability based on the testing results.

DNAPL fluid property results are presented in Table 5-15. In summary, the results for viscosity, density, and interfacial tension showed differences in density and viscosity that are likely the result of different DNAPL sources or variability in weathering of the DNAPL over time.

5.6 Vapor Intrusion Evaluation Sample Results

Vapor intrusion sampling was conducted at four properties on/adjacent to the Site over five events in 2009, 2010 (two events), 2011, and 2015. Four rounds of samples were collected from 222 Maspeth Ave, two rounds were collected from 252 Maspeth Ave, and one round was collected from both 1 Rewe Street and 7-9 Rewe Street. At each location a pair of sub-slab vapor and indoor air samples was collected, along with one outdoor ambient air sample per event.

A list of the sub-slab vapor, indoor air, and ambient air samples collected, and the analyses performed, is included in Table 3-2. The results of the sub-slab vapor and indoor air evaluation samples are summarized in Table 5-16 and illustrated on Figure 5-13.

The results were compared to typical indoor air concentrations (also referred to as “background concentrations”) identified based on the USEPA study of randomly selected public and commercial office buildings, and published in NYSDOH’s Vapor Intrusion Guidance Document (2006). The NYSDOH background concentrations are listed on Table 5-16.

5.6.1 222 Maspeth Avenue

At 222 Maspeth Ave, four rounds of vapor intrusion evaluation sampling were conducted. The samples were collected from the ground floor (locker room area) of the office structure.

5.6.1.1 November 2009 Event

The initial round sampling was conducted in November 2009 as part of the RI activities.

In the sub-slab vapor sample, a number of compounds were detected above their NYSDOH background levels. Most of these were also detected in the indoor air sample above the NYSDOH background concentrations, including ethylbenzene, naphthalene, styrene, toluene, and xylenes.

Methylene chloride was also detected in the indoor air sample at a concentration above the NYSDOH background level. However, this compound was detected at a lower concentration in the sub-slab vapor sample.

However, a number of products were identified in the locker room in the pre-sampling survey which may have interfered with the sampling (e.g., lubricants, stains, adhesives, paints, and varnish removers /strippers).

5.6.1.2 March 2010 Event

As a result of the detections found in the November 2009 sampling event, it was determined that a second round of sampling would be conducted in March 2010 during the heating season to verify the results. (NYSDOH Vapor Intrusion Guidance considers the heating season to be between November 15 and March 31.) Prior to the March 2010 sampling, the locker room was cleared of various products which may have interfered with the sampling (e.g., lubricants, stains, adhesives, paints, and varnish removers /strippers).

Although the March 2010 sampling still revealed the presence of ethylbenzene, styrene, toluene, xylenes, and methylene chloride in indoor air, they were detected below NYSDOH background concentrations.

Naphthalene was detected in the indoor air sample from the locker room above background concentrations in both the November 2009 and March 2010 sampling events. It was also detected in the sub-slab vapor samples during these events at concentrations higher than the indoor air sample. Based on the sampling results, it was concluded that the naphthalene may be migrating into the locker room from below the floor slab.

5.6.1.3 August 2010 Event

After completion of the March 2010 sampling event, National Grid was informed, for the first time, of potential pathways for sub-slab vapor migration into the locker room, including a previously unknown gap around a sewer cleanout in the locker room floor and unknown smaller gaps and cracks in the floor of the water meter pit and around conduits entering the water meter pit from the subsurface. In light of this new information, the potential pathways observed in the locker room floor were sealed with cement/concrete and/or non-VOC caulk, and an additional sampling event was planned.

In August 2010, a third round of sampling was conducted in the locker room to verify the effectiveness of the remedial actions taken to seal the identified migration pathways. Prior to the sampling event, screening was completed in the locker room to remove all materials that might interfere with indoor air sampling. However, the lockers were locked and the absence of indoor air sources could not be verified. Therefore, screening was completed through the vents of the lockers using a photoionization detector (PID); the PID readings were not elevated.

In the August 2010 sampling, ethylbenzene, styrene, toluene, xylenes, 2-butanone, carbon tetrachloride, ethanol, TCE, 1,2,4- and 1,3,5-trimethylbenzene and 4-ethyltoluene were detected in the indoor air sample above NYSDOH background concentrations. However, these constituents were detected at lower concentrations in the sub-slab vapor sample than in the indoor air sample. Ethylbenzene, styrene, toluene, and xylenes are ingredients in gasoline, spray paint, adhesives, degreasers, etc. 2-Butanone, also known as methyl ethyl ketone (MEK), can be found in paints, glues, other finishes, and also exhaust from cars and trucks. Carbon tetrachloride is used as a solvent, petrol additive, and as an ingredient in refrigerants, and metal degreasing. Ethanol is an ingredient in spray paint, glass cleaner, lubricants, adhesives, laundry detergents, fabric softeners, etc. Ethanol is also used in combustion engines as fuel. TCE is a solvent for degreasing metal parts and an ingredient in products such as adhesives and paint removers.

Chloroform was detected in indoor air and sub-slab vapor during the August 2010 sampling event. The indoor air concentration was slightly above the background concentration. Chloroform and was not detected in indoor air during the two previous sampling events. Chloroform can be found in products including adhesive removers, glass cleaners, and air fresheners.

Carbon disulfide, PCE, and trichlorofluoromethane were detected in the sub-slab vapor sample above their NYSDOH background levels; however, they were detected at concentrations below their background levels in the paired indoor air sample.

The results of the August 2010 sampling event showed that naphthalene concentrations detected in indoor air prior to the mitigation effort decreased to below background concentrations, indicating that the mitigation of potential pathways (i.e., sealing openings to the subsurface within the building) was successful at reducing the potential migration of naphthalene into the locker room from beneath the floor slab. To confirm this, a fourth sampling event was planned for the 2010-2011 heating season.

5.6.1.4 February 2011 Event

Finally, a fourth round of sampling in the locker room was conducted in February 2011 (in the heating season) to confirm the August 2010 results.

Prior to the February 2011 sampling event, screening was completed in the locker room to identify any materials that might interfere with indoor air sampling. Although no potential indoor air sources were observed in the locker room, the lockers were locked and thus the absence of indoor air sources could not be verified. Screening was also completed through the vents of the lockers using a PID, and the PID readings were not elevated.

The February 2011 sampling revealed the presence of toluene, ethanol, and methylene chloride in the indoor air above NYSDOH background concentrations. However, these constituents were detected at lower concentrations in the sub-slab vapor sample than in the indoor air sample. Toluene is an ingredient in gasoline, spray paint, adhesives, degreasers, etc. Ethanol is an ingredient in spray paint, glass cleaner, lubricants, adhesives, laundry detergents, fabric softeners, etc. Ethanol is also used in combustion engines as fuel. Methylene chloride is an ingredient in auto maintenance products including lubricants, degreasers, gasket remover, valve, brake parts, and tire cleaner; home maintenance products including spray paint, stain strippers, varnish and adhesive remover; and in pesticides.

The February 2011 sampling also revealed the presence of chloroform in the indoor air at a concentration approximately equal to the NYSDOH background concentration. It was also detected in sub-slab vapor at a higher concentration than in indoor air. Chloroform was detected in indoor air and sub-slab vapor during the previous sampling event conducted in August 2010, but was not detected in indoor air in the two sampling events conducted prior to August 2010. Chloroform can be found in products including adhesive removers, glass cleaners, and air fresheners. During prior sampling events at this property, many of these items (paint, adhesives, degreasers) were present in various areas.

Dichlorodifluoromethane, PCE, and trichlorofluoromethane were detected in the sub-slab vapor sample above their NYSDOH background levels; however, they were either not detected or detected at concentrations below their background levels in the paired indoor air sample.

The results of the February 2011 sampling event show that naphthalene concentrations detected in indoor air prior to the July 2010 mitigation effort have decreased to below the background concentration, confirming that the mitigation of potential pathways (i.e., sealing openings to the subsurface within the building) was successful.

5.6.2 252 Maspeth Avenue

At 252 Maspeth Ave, two rounds of vapor intrusion evaluation sampling were conducted. The samples were collected from the ground floor of the mechanics shop.

5.6.2.1 November 2009 Event

The initial round sampling was conducted in November 2009 as part of the RI activities.

In the sub-slab vapor sample, a number of compounds were detected above their NYSDOH background levels; however, in the paired indoor air sample, these compounds were either not detected or detected at a concentration below their NYSDOH background level. In particular, PCE and TCE were detected at concentrations exceeding DOH action levels for these compounds in air. PCE and TCE are associated with de-greasers and solvents. Neither PCE nor TCE were detected in the indoor air sample.

Only hexane and ethanol were detected in the indoor air sample at concentrations above their NYSDOH background levels.

Hexane was detected in indoor air at a concentration slightly above the NYSDOH background level. Hexane, however, was not detected in the sub-slab vapor sample, therefore, the detected hexane is interpreted to be from an indoor source. Hexane is an ingredient in products including gasoline, spray paint, adhesives, brush cleaners, lubricants, and liquid electrical tapes. An inventory of products in the garage conducted prior to sampling revealed the presence of lacquer thinner, which may have been the source of the hexane detected in indoor air.

Ethanol was detected in indoor air at a concentration above the background concentration; however, it was not detected in the sub-slab vapor sample. Ethanol is an ingredient in spray paint, glass cleaner, lubricants, adhesives, laundry detergents, fabric softeners, etc. Ethanol is also used in combustion engines as fuel.

There were detections of various constituents in the ambient air samples during the sampling event, consistent with typical urban background concentrations.

5.6.2.2 March 2010 Event

After the November 2009 results were evaluated, it was determined that the indoor air sample was collected during business hours on a week day while work was being conducted in the garage with one of the garage doors open. To ensure that results of the vapor intrusion evaluation were as accurate as possible, an additional round of sampling was conducted in March 2010, during the heating season, with all garage doors closed. Prior to the March 2010 sampling, the garage was cleared of all products which might interfere with the sampling (i.e., cleaners, paints, solvents, petroleum products, etc.).

As in November 2009, a number of compounds, including PCE and TCE, were detected in the sub-slab vapor sample above their NYSDOH background levels. However, in the paired indoor air sample,

these compounds were either not detected or detected at a concentration below their NYSDOH background level.

No compounds were detected in the indoor air sample at a concentration above the NYSDOH background levels. Hexane and ethanol were detected but not above background. The lower indoor air results reported for the March 2010 event suggests that the November 2009 results may have been affected by the thinner and other products removed from the garage prior to the March sampling event, as well as the work that was going on during the November sampling.

5.6.3 1 Rewe Street

The RI Work Plan Addendum No. 4 (AECOM, 2015) included vapor intrusion sampling at the private property located to the south of the Site at 1 Rewe Street. At this location, one set of paired indoor air / sub-slab vapor samples was collected from the north end of the building and one pair from the south end.

In the north end of the building in the sub-slab vapor sample, a number of compounds were detected above their NYSDOH background levels. However, with the exception of styrene (as discussed below), these compounds were either not detected in the paired indoor air sample or detected at a concentration below their NYSDOH background level.

In the south end of the building, only styrene was detected in both the sub-slab vapor and indoor air at concentrations above the NYSDOH background level.

However, the styrene concentrations in the indoor air samples from the north and south ends of the building were greater than in the paired sub-slab vapor samples. If the vapor intrusion pathway were the source of the styrene, it would be expected to be present in the sub-slab vapor samples at concentrations greater than in the indoor air samples. Styrene is used in many applications including containers, protective packaging, and electronics, which were observed within the building during the pre-sampling survey.

5.6.4 7-9 Rewe Street

The RI Work Plan Addendum No. 4 (AECOM, 2015) included vapor intrusion sampling at the private property located to the south of the Site at 7-9 Rewe Street. At this location, one set of samples was collected from the north end of the building.

Three compounds were detected in the sub-slab vapor sample at concentrations above their NYSDOH background level: hexane, styrene, 1,3-butadiene, and PCE. 1,3-butadiene was not detected in the paired indoor air sample.

Hexane, styrene, and PCE were also detected in the indoor air sample at concentrations above the NYSDOH background levels. However, the indoor air concentrations were higher than in the sub-slab vapor sample. If the vapor intrusion pathway were the source of these compounds, it is expected that concentrations of these compounds would be present in the sub-slab vapor sample at concentrations greater than those in the indoor air sample.

Hexane is an ingredient in products including gasoline, spray paint, adhesives, brush cleaners, lubricants, and liquid electrical tapes. Styrene is used in many applications including containers, protective packaging, and electronics. PCE is associated with de-greasers and solvents. The pre-

sampling product inventory revealed the presence of multiple products, including adhesive spray, cleaners, diesel fluids, transmission fluids, motor/engine oils, and protective enamels which may be a source of volatile compounds in indoor air.

6.0 Summary of Interim Remedial Measures

6.1 Vapor Intrusion Mitigation – Locker Room (222 Maspeth Avenue)

As discussed in Section 5.6, vapor intrusion samples (a pair of sub-slab vapor and indoor air samples and one outdoor ambient air sample) were collected from the ground floor locker room area of the office structure at 222 Maspeth Ave in November 2009 as part of the initial RI activities. The results were compared to typical indoor air concentrations (also referred to as "background concentrations") identified based on the USEPA study of randomly selected public and commercial office buildings, and published in NYSDOH's Vapor Intrusion Guidance Document (2006). The vapor intrusion sampling results are summarized in Table 5-16.

The November 2009 results showed a number of compounds detected in the indoor air sample above the NYSDOH background concentrations, including ethylbenzene, naphthalene, styrene, toluene, and xylenes. However, a number of products were identified in the locker room in the pre-sampling survey which may have interfered with the sampling (e.g., lubricants, stains, adhesives, paints, and varnish removers /strippers), therefore, a second round of sampling was conducted in March 2010.

Prior to the March 2010 sampling, the locker room was cleared of various products which may have interfered with the sampling (e.g., lubricants, stains, adhesives, paints, and varnish removers /strippers). Naphthalene was detected in the indoor air sample from the locker room above background concentrations, and as a result, it was concluded that the naphthalene may be migrating into the locker room from below the floor slab.

After completion of the March 2010 sampling event, potential pathways for sub-slab vapor migration into the locker room, including a gap around a sewer cleanout in the locker room floor and unknown smaller gaps and cracks in the floor of the water meter pit and around conduits entering the water meter pit from the subsurface were sealed with cement/concrete and/or non-VOC caulk. Appendix M contains pictures of the remediated areas. A third and fourth round of vapor intrusion sampling was conducted in August 2010 and February 2011 to verify the effectiveness of the remedial actions taken to seal the identified migration pathways.

The results of both sampling events showed that naphthalene concentrations detected in indoor air prior to the mitigation effort decreased to below background concentrations, indicating that the mitigation of potential pathways (i.e., sealing openings to the subsurface within the building) was successful at reducing the potential migration of naphthalene into the locker room from beneath the floor slab.

6.2 Interim Site Management Plan

In accordance with the requirements of DER-10 (NYSDEC, 2010), an Interim Site Management Plan (ISMP) (AECOM, 2012) was prepared on behalf of the National Grid to alert Site workers and construction, utility and maintenance crews, and their contractors ("Construction Workers") that there are environmental conditions on the 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue properties in Brooklyn, New York that may impact surface intrusive (i.e., greater than 6 inches deep, such as drilling, excavation, utility repairs, fence repairs, tree planting, construction, etc.)

activities and present a hazard to the public and environment. Work within the above properties has the potential for contact with environmental impacts during surface intrusive activities. The ISMP is currently being modified to include protective measures for the NAPL recovery system treatment trailer installed in the southwest corner of the 254 Maspeth Avenue parcel. The NAPL recovery system is comprised of 23 recovery wells and an associated control trailer housing pump controls and a 500-gallon NAPL recovery tank that are located in the southwest corner of the 254 Maspeth Avenue parcel. The control trailer is surrounded by a jersey barrier and locked fencing to isolate truck traffic and limit unauthorized access.

The primary goal of the ISMP is to ensure that any surface intrusive work will be done in such a manner that Construction Worker and general public (including Site worker) will be prevented from exposure to environmentally impacted material at the Site through work zone controls, appropriate monitoring, and safe work practices. A secondary goal of the ISMP is to ensure unauthorized access to the NAPL recovery system is prevented.

The ISMP requires the Site owner(s) or their representative(s) to notify National Grid and NYSDEC at least 15 business days prior to the start of:

- Any intrusive activity that is anticipated to penetrate the Site surface, disturb the Site surface, or encounter the Site subsurface.
- Any contaminated soil handling activities, intrusive or non-intrusive.
- Any subsurface modifications or repairs to the existing stormwater collection system and other subsurface equipment (including scales), and utilities or future Site development/redevelopment.
- Any work that will require access to the NAPL recovery treatment system control trailer or fenced area or recovery well vaults.

National Grid will review and provide comments on all planned surface-intrusive activities, and may opt to have a representative on-site, as appropriate, to observe that any surface-intrusive work activities are done in compliance with the ISMP.

The ISMP requires that all surface intrusive work be performed in compliance with 29 CFR 1910.120 and utilize appropriate Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Responses (HAZWOPER) trained workers. Such work must also be conducted under a Health and Safety Plan (HASP) and a Community Air Monitoring Plan (CAMP). The ISMP also requires that certain engineering controls be used to protect public safety during such work. The ISMP also details specific measures to be taken for on-site material management, waste management, stormwater pollution prevention, and equipment decontamination.

The ISMP also states that entry to the NAPL recovery system control trailer or the recovery well vaults is not permitted, unless accompanied by National Grid or their representatives.

6.2.1 Cooper Tank Wall Foundation Work (252 and 254 Maspeth Avenue)

On November 28, 2012, GFE on behalf of Cooper Tank notified NYSDEC and National Grid of planned construction activities at the 254 Maspeth Ave property, as required by the ISMP. The surface intrusive work was conducted on December 17 through 27, 2012 and involved construction of a foundation for a perimeter wall around the property that would involve excavation of Site soils.

AECOM provided oversight for National Grid, performed the required Community Air Monitoring and ensured that soils were managed properly for disposal.

The work included:

- Excavation and stockpiling of Interim Remedial Measure (IRM) stone backfill for Site reuse;
- Excavation and disposal of wall footing soil not approved for reuse on-site; and
- Excavation and disposal of wall footing soils with environmental impacts based on field/visual observations.

Figure 6-1 shows the limits of the work. The wall excavation activities included the installation of a demarcation layer within the footprint of the proposed wall construction activities at the Site. This activity was performed to allow the Site wall foundation contractor (DCMI) access to the area without properly trained (40 hour HAZWOPER) staff to handle environmental impacts. EQ Northeast was selected by Cooper Tank to serve as the contractor to excavate the wall footprint and lay in the demarcation layer along the bottom and sidewalls of the wall trench. AECOM served as the Site engineer and provided the day to day oversight of the contractor and managed the Community Air Monitoring Program.

EQ Northeast removed 150 cubic yards of stone backfill from Area D (shown on Figure 6-1) identified during the shallow soil IRM activities performed in September 2012 (as summarized in Section 6.3). All stone was stockpiled in the Southwest part of the Site for future use. EQ Northeast initially planned to reuse 450 cubic yards of soil from the wall foundation footprint throughout the Site since environmental impacts were not present based on visual/field screening operations. However, during the wall excavation EQ Northeast identified the soil as unusable for Site reuse due to the presence of large amounts of non-soil debris mixed throughout (i.e. bricks, carpet, wood, rocks, and concrete chunks). The soils within the wall foundation areas were pre-characterized for off-site thermal treatment at Bayshore Soil Management LLC.

The work was conducted in accordance with the ISMP.

6.2.2 Storm Sewer Excavation Work (254 Maspeth Avenue)

GFE, on behalf of Cooper Tank, notified NYSDEC and National Grid of planned storm sewer construction activities at the 254 Maspeth Ave property as required by the ISMP. The surface intrusive work was conducted over a two-week period beginning May 29, 2013 and ending June 19, 2013 at the Site in accordance with the approved ISMP and included:

- Excavation and stockpiling of Site soils for reuse.
- Excavation and off-site disposal of impacted soils encountered during storm sewer installation based on field/visual observations.

JRM was selected by Cooper Tank to serve as the contractor to excavate and install the storm sewer system for the 254 Maspeth Avenue parcel. AECOM served as the Site engineer and provided the day to day oversight of the contractor and managed the Community Air Monitoring Program. Excavated materials that were identified through visual and olfactory screening methods were transported off-site in permitted dump trucks to the receiving facility (Bayshore Soil Management LLC) under proper manifest. Excavated materials that were identified as clean based on visual and

olfactory screening methods were reused on-site for backfilling or grading purposes. All work was conducted in accordance with the ISMP.

6.3 IRM - Shallow Soil Excavation

This section summarizes the remedial activities completed as part of the IRM for Shallow Soil Excavation. A detailed accounting of all the activities involved in the work is provided in the *Shallow Soil Interim Remedial Measure Completion Report* (AECOM, 2014), included in Appendix N.

In 2011, the operator of the facility at 254 Maspeth Avenue (Cooper Tank) was in the process of obtaining a NYSDEC Part 360 Permit for operating a recycling facility. This permit would expand the waste recycling / waste transfer station at 222 Maspeth Avenue onto the 252 and 254 Maspeth Avenue properties, and it required construction of a minimum 8-inch thick concrete pad across the entire surface of the Site, a storm water collection system, and a 30-foot high wall along the perimeter of the 254 Maspeth Avenue property. These activities were expected to be invasive and could encounter environmentally impacted materials observed during the ongoing RI activities. As a result, National Grid and the NYSDEC agreed that an IRM would be conducted on the 254 Maspeth Avenue property to remove visual impacts above the groundwater surface. The objectives of this IRM were to:

- Remove, to the extent possible, visual impacts observed in soils above the water table (or to a minimum depth of 5 ft bgs if the water table is shallower) on the 254 Maspeth Avenue property.
- Provide a safe working environment during the proposed redevelopment of the 254 Maspeth Avenue property.

Visually impacted soils were being targeted for the IRM, as they were identified as sources that were readily recoverable. Cooper Tank stated to National Grid that field activity during the proposed redevelopment would extend to a maximum depth of 5 ft bgs. As such, soils within the limits of the IRM were removed to a minimum depth of 5 ft bgs irrespective of the depth of the water table. Any remaining residual impacts across the 254 Maspeth Avenue property would be accounted for in a Site Management Plan and/or final Remedial Design/ Cleanup Plan for the Site.

In September 2011, a PDI was conducted, as described in Section 3.1.2, to gather additional information needed to ensure a safe and effective design of the IRM, facilitate its implementation, and provide soil pre-characterization for disposal.

The IRM activities were completed in September 2012 in accordance with the NYSDEC approved IRM Work Plan (National Grid, 2011d) and included the following:

- Removal and disposal of select surface and subsurface soils above the groundwater table for off-site thermal treatment.
- Removal of former MGP structures encountered within the excavation footprints.
- Placement of a demarcation fabric at the bottom of the excavations and placement of clean gravel backfill to 3 ft bgs.

EQ Northeast was selected by National Grid to serve as the primary remediation contractor. Based on the soil profile data, Bayshore Recycling, Inc. was able to approve a fast track schedule for accepting soils at their facility for thermal treatment.

The areas excavated are shown in Figure 6-2 and are as follows:

- Soils within Area A were excavated to an approximate depth of 7 to 8 ft bgs. Visibly impacted soil was observed on the northern wall of the excavation at a depth of 4 to 6 ft bgs but could not be removed due to the presence of perimeter fence separating the 254 Maspeth Avenue property and the Fed Ex property. Approximately 37.4 cubic yards (cy) of material was removed from Area A.
- Soils within Area B were excavated to an approximate depth of 5 to 6 ft bgs. Approximately 20.4 cy of material was removed from Area B.
- Soils within Area C was excavated to an approximate depth of 5 to 7 ft bgs. Visibly impacted soil was also observed on the eastern wall of the excavation at a depth of 3 to 5 ft bgs but could not be removed due to the presence of perimeter fence separating the 254 Maspeth Avenue property and the Fed Ex property. Approximately 432 cy of material was removed from Area C.
- Soils within Area D was excavated to an approximate depth of 8 ft bgs. Visibly impacted soil was observed on the southern wall of the excavation at a depth of 3 to 5 ft bgs but could not be removed due to the proximity of the Warehouse building on the 7 Rewe Street property. Approximately 284.8 cy of material was removed from Area D.

Materials removed during the Shallow Soil IRM included soil and fill material, domestic trash, unknown foundations, historic piping, and construction & demolition debris. Former MGP structure walls and foundations are believed to have been encountered during excavation as evidenced by concrete and brick fragments but could not be conclusively identified.

At each excavation, an orange demarcation fabric was placed at the bottom of the excavation. The excavation was backfilled with clean stone backfill to approximately 3 ft bgs following placement of the demarcation fabric (except for Area D which was backfilled to the ground surface), because the Site improvement activities by Cooper Tank involved the excavation of the same areas, so backfill was not required from 0 to 3 ft bgs. Backfill was later provided by Cooper Tank upon completion of their wall foundation construction activities.

6.4 IRM - NAPL Recovery System

This section summarizes the remedial activities completed as part of the IRM for NAPL Recovery. A detailed accounting of all the activities involved in the work is provided in the *Completion Report, Interim Remedial Measure for NAPL Recovery* (AECOM, 2015a), included in Appendix N.

In September 2011, a PDI was conducted, as described in Section 3.1.2, to gather additional information needed to ensure a safe and effective design of the IRM.

Cooper Tank was issued a NYSDEC Part 360 Permit for the expansion of active recycling operations on the 252 and 254 Maspeth Avenue properties. Conditions of that permit required the construction of a perimeter wall around open areas of the 254 Maspeth property and the installation of a concrete pad with a stormwater collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM to control potential migration of NAPL while a final Site remedy is developed through the DER-10 process. The IRM activities included the following:

- Installation of five NAPL recovery wells at appropriate locations within the central areas of the Site to reduce the quantity of NAPL, and at 18 selected perimeter locations to control the potential for off-Site migration.
- On-going measurement and recovery of NAPL that collects in the recovery wells.

6.4.1 System Design and Installation

Twenty-three (23) recovery wells were installed between March 3 to April 10, 2013, five on-Site and 18 along the perimeter of 222, 252 and 254 Maspeth Ave properties. The recovery well locations are shown on Figure 3-2. The perimeter locations were spaced at approximately 18 ft on center, with the exception of the area along the driveway of 254 Maspeth where the presence of a subsurface structure required spacing of approximately 30 ft between the three NAPL recovery wells (RW-6, RW-7 and RW-8). Soil borings were advanced at each of the locations, and soil samples collected for observation. Copies of the boring logs provided in Appendix D. Based on the observations, the bottom of the well screen was set at the bottom of the observed NAPL saturated interval.

All recovery wells had a common design: 6-inch diameter 0.020-inch slot wire wrap stainless steel screens that were 10 or 15 ft in length and a 5-foot long sump to retain collected NAPL. Each location was equipped with the infrastructure (i.e., conduits for electrical service and tubing) for the subsequent automation of NAPL recovery activities, if needed.

A minimum of 24-hours post-installation of the grout, each well was developed using surge and pump procedures to remove drilling fluids and fine-grained material from the sump, well screen, and filter pack. Development water was stored in on-Site frac tanks prior to disposal at an approved off-site facility.

As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates to determine which locations would require automation for cost-effective management of collected NAPL. Eleven manual monitoring events were conducted from May 2013 to February 2014. The recovery wells were given the following designations based on the volume recovered:

- “Primary Recovery Wells” recovered the majority (approximately 85%) of the NAPL: two interior wells on the 252 Maspeth parcel (RW-2, RW-3), three perimeter wells on the 254 Maspeth parcel (RW-10, RW-12, RW-13), and three perimeter wells on the 252 Maspeth parcel (RW-18, RW-19, RW-20).
- “Secondary Recovery Wells” recovered the approximately 15% of the NAPL: four perimeter wells on the 254 Maspeth parcel (RW-8, RW-9, RW-11, RW-17) and one perimeter well on the 252 Maspeth parcel (RW-21).
- “Gauging Wells” recovered no or limited quantities: three interior wells on the 252 Maspeth Ave property (RW-1, RW-4, RW-5), five perimeter wells on the 254 Maspeth property (RW-6, RW-7, RW-14, RW-15, RW-16), and two perimeter wells on the 222 Maspeth property (RW-22, RW-23).

NAPL was collected during these events and managed at the Tradebe Facility in Cohoes, NY as an alternative fuel in accordance with NYSDEC DER-4 (NYSDEC, 2002a).

The recovery systems for the Primary and Secondary Recovery Wells were automated. The pumps, associated controls and NAPL accumulation tank were installed during the period of June and July 2014.

6.4.2 Operation and Maintenance

The NAPL recovery system is intended to collect NAPL and develop data related to the nature and extent of to support the evaluation of potential long-term remedies for the Site. As a result, the NAPL recovery system is operated in a manner that maintains the NAPL levels within the well sumps.

The primary and secondary locations have been equipped with fixed speed pumps. The well pumps are controlled with timers that are adjusted to ensure that the NAPL is contained within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. The initial pumping rates for these locations are provided below.

- Primary Recovery Wells – 0.2 gallons per minute (gpm) for approximately 5 minutes per day to achieve a recovery rate of approximately 1 gpd.
- Secondary Recovery Wells- 0.01 to 0.05 gpm for approximately 10 minutes per day to achieve a recovery rate of 0.1 to 0.5 gpd.

Collected NAPL accumulates in a 500 gallon double walled polyethylene capacity tank located above ground in the system's control trailer on the 254 Maspeth Ave parcel. The accumulation tank is equipped with a high liquid level detector to prevent over-filling, as well as secondary containment. The system is also equipped with additional alarms and communication equipment to ensure its safe operation.

The system is exempt from solid and hazardous waste permitting requirements under NYSDEC Guidance DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010) and the Consent Order for the Site since the substantive technical requirements of permits is met by the following:

- Development and Implementation of a Preparedness and Prevention Plan, Contingency Plan and Closure Plan.
- Maintaining Secondary Containment on the accumulation tank.

Additionally, the contents of the tank are removed at a frequency of less than 90-days.

The Gauging Wells are monitored during quarterly inspection activities and collected NAPL is recovered using air lift equipment and stored in sealed drums and collected with the NAPL from the accumulation tank.

Accumulated NAPL is collected as required for transport by a licensed contractor to the Tradebe Facility for use as an alternative fuel. Representative samples of the contents of the tank are collected and analyzed as required to support the disposal activities. Samples are submitted for proper waste characterization on an annual basis as required by the disposal facility. An EPA RCRA ID number (NYR 000 225 615) has been obtained to facilitate disposal of the NAPL.

6.4.3 Reporting

The IRM activities are documented in an annual report for the first year of operation and in quarterly Monitoring and Recovery Reports thereafter presenting the results from the on-going monitoring and NAPL recovery activities.

The annual report for the period of July 2014 to May 2015 was submitted to NYSDEC in August 2015 (AECOM, 2015b). Approximately 2,270 gallons of mixed fluids have been collected from the system from July 14, 2014 to June 1, 2015 and managed as an alternative fuel at the Tradebe Facility in Cohoes, N.Y. Observations of the collected material indicate an approximate 70:30 ratio of NAPL to water, providing for an average NAPL collection rate of approximately 5 gallons per day. Figure 6-3 shows the cumulative volume of NAPL recovered through December 2015.

7.0 Qualitative Human Health Exposure Assessment

This section of the RI assesses the potential for exposure to constituents present in impacted soils, groundwater, soil vapor, and indoor air. This assessment identifies the potential release and transport mechanisms for the constituents of concern (COCs), point of exposure and exposure routes, and the receptors that could be exposed to COCs originating from the Site. It is assumed that direct contact with NAPL will pose an unacceptable risk and will not be evaluated as part of the QHHEA. The evaluation follows guidelines specified in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010).

7.1 Site Setting

The Site is occupied by Cooper Tank Recycling Company and used for heavy manufacturing, recycling and sorting of building materials. The Site is comprised of three lots. On Block 2927, Lot 44, there are presently one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations. On Block 2927, Lot 54, there is presently one building used as a maintenance center for equipment. On Block 2927, Lot 57, there is presently a parking area with truck scales used for occasional storage of empty roll-offs and vehicle parking. The buildings are serviced by public utilities including electric, water, and sewer.

The Site is located in a mixed commercial/industrial area of Brooklyn, NY. The Site is bounded by Maspeth Avenue to the north, 300 Maspeth Avenue (FedEx) to the east, a portion of 1 Rewe Street (Fesco) and 7 and 8 Rewe Street (West Terminal, LLC) to the south, and a portion of 1 Rewe Street and Vandervoort Avenue to the west.

The Site is underlain by approximately 15 ft of mostly poorly graded sand, silt, and gravel fill identified by anthropogenic material (coal fragments, ash, concrete slabs, wood pieces, wood fragments, brick fragments, glass, and other urban fill debris). A layer of meadow mat (peat and clay) was observed to be present in all areas of the Site underlying fill in thicknesses typically between 5 and 15 ft. Between the bottom of the meadow mat and the top of the Gardiners Clay are units of glacial outwash dominated by sands and silts. The Gardiners Clay is present beneath all areas of the Site and was observed to be 97 ft thick at one Site boring (SB-20J). The Gardiners Clay, a regional confining clay unit, is comprised of a high plasticity, stiff, gray clay and silty clay. Bedrock comprised of gneiss and schist was encountered at one soil boring at 192 ft bgs. Groundwater is encountered beneath the Site at minimum depths of approximately 7 to 8 ft bgs. Shallow groundwater flow has been documented to flow in to the east and southeast in the eastern portion of the Site and to the south in the western portion of the Site. The intermediate groundwater flow has been documented to flow from the north and south on the western portion of the Site to the southeast. The deep groundwater flows to the east and southeast across the Site. The nearest water body in the direction of groundwater flow is the English Kills tributary of Newtown Creek located southeast of the Site.

7.2 Exposure Assessment

Exposure is the process by which humans come in contact with constituents in their environment. Humans can be exposed to constituents in a variety of environmental media including surface soil, subsurface soil, soil vapor, groundwater and ambient/indoor air. Exposure to these media can

potentially occur through several routes including ingestion, dermal contact, and inhalation. The exposure assessment identifies likely pathways by which humans are potentially exposed to COCs.

The assessment includes the following:

- Development of a conceptual Site model (CSM)
- Discussion of potential sources
- Evaluation of on-Site and off-Site data using health-based screening criteria
- Discussion of potential release mechanisms
- Identification of potential human receptors and receptor-specific exposure pathways

Commercial and industrial properties in the vicinity of the Site obtain drinking water from municipal sources. Municipal sources in the area obtain water from up-state surface water and not from local groundwater. Therefore, the potential for exposure to Site-derived constituents in drinking water has not been considered further in this assessment as it is not considered likely to be a complete exposure pathway.

Figure 7-1 presents the CSM for potential release and transport mechanisms for COCs at the Site. Included on the figure is information regarding the known or potential sources of COCs at the Site, the identified release mechanisms, and the affected source media. Potential migration pathways, exposure media and the potential exposure routes have also been presented. It should be noted that the exposure routes are considered potential unless there is an ongoing or documented exposure.

7.2.1 Analytical Summary

Surface soil (2009), subsurface soil (2009, and 2011 through 2015), groundwater (2009, 2012, and 2013) and sub-slab vapor, indoor air and ambient air (2009, 2010, 2011, and 2015) samples have been collected from the Site and adjacent area and analyzed for a range of constituents. Available analytical data were compared to New York State recommended standards and guidance values on a sample-by-sample basis. Comparison tables are presented in Section 5 of this report. The results of these comparisons are summarized below.

7.2.1.1 Surface Soil

Analytical data for surface soil (0 to 0.5 ft bgs) are summarized in Tables 5-3 through 5-5. Benzo(a)pyrene was the only constituent with concentrations above the Industrial Use SCOs. Benzo(a)pyrene concentrations exceed the Industrial Use SCO at SB-5, SB-7 and SB-11 with concentrations ranging from 2.2 to 5.6 mg/kg. VOCs were not detected in the surface soil samples. PAHs, metals, PCBs and pesticides were detected in at least one sample above the Unrestricted Use SCOs but below the Industrial Use SCOs. Subsequent to sampling, the areas where the surface soil samples were collected have been paved.

7.2.1.2 Subsurface Soil

Analytical data for the subsurface soil samples are summarized in Tables 5-6 through 5-10. Only samples that were not excavated are discussed below. For the purposes of this QHHEA, subsurface soils have been divided into those soils between 1 to 15 ft bgs and subsurface soils deeper than 15 ft bgs. This depth division is based on the assumption that intrusive construction activities undertaken at

the Site are likely to occur at depths between 0 to 15 ft bgs, therefore construction workers may be directly exposed to chemical constituents reported in soils between 0 to 15 ft bgs.

Two metals and seven PAHs were detected in subsurface soils between 1 to 15 ft bgs above the Industrial Use SCOs, as follows:

- Arsenic (9 samples: SB-02B[5-5], SB-06B[6-6], SB-12A[10-12.2], SB-17[1-2], SB-19[2-5], SB-20[1-2], SB-30[3-5], T5-SB7[10-11], TP-01[9-9]) concentrations range from 16.5 to 68.8 mg/kg;
- Mercury (SB-41[5-10]) at a concentration of 12.8 mg/kg;
- Benzo(a)anthracene (13 samples: SB-02B[14-16], SB-02B[5-5], SB-13[0-1], SB-13[12-14], SB-14B[11-13], SB-15[12-14], SB-17[1-2], SB-18[4-5], SB-19[2-5], SB-40[9-10], SB-41[5-10], SB-43[8-9], TP-01[9-9]) concentrations range from 13 to190 mg/kg;
- Benzo(a)pyrene (29 samples: SB-02B[14-16], SB-02B[5-5], SB-08[2-3], SB-09[4-5], SB-10[3-4], SB-12A[10-12.2], SB-13[0-1], SB-13[12-14], SB-14A[1-2], SB-14B[11-13], SB-15[12-14], SB-15[3-4], SB-16A[2-3], SB-17[1-2], SB-18[4-5], SB-19[2-5], SB-20[1-2], SB-21[0-5], SB-29[0-5], SB-30[3-5], SB-40[9-10], SB-41[5-10], SB-43[8-9], SB-47[10-14], T5-SB7[10-11], TP-01[12-12], TP-01[9-9], TP-02[8.5-8.5], TP-03[7-7]) concentrations range from 1.6 to 120 mg/kg;
- Benzo(b)fluoranthene (11 samples: SB-02B[5-5], SB-13[12-14], SB-15[12-14], SB-17[1-2], SB-18[4-5], SB-19[2-5], SB-40[9-10], SB-41[5-10], SB-43[8-9], T5-SB7[10-11], TP-01[9-9]) concentrations range from 11.8 to 130 mg/kg;
- Chrysene (TP-01[9-9]) at a concentration of 140 mg/kg;
- Dibenz(a,h)anthracene (13 samples: SB-02B[14-16], SB-02B[5-5], SB-13[12-14], SB-15[12-14], SB-17[1-2], SB-18[4-5], SB-19[2-5], SB-21[0-5], SB-40[9-10], SB-41[5-10], SB-43[8-9], T5-SB7[10-11], TP-01[9-9]) concentrations range from 1.3 to 9.5 mg/kg;
- Indeno(1,2,3-cd)pyrene (5 samples: SB-17[1-2], SB-40[9-10], SB-41[5-10], SB-43[8-9], TP-01[9-9]) concentrations range from 14 to 48 mg/kg;
- Naphthalene (SB-13[12-14] and TP-01[9-9]) concentrations of 1400 mg/kg and 14000 mg/kg, respectively.

Metals, VOCs (including BTEX), SVOCs (including PAHs), PCBs and pesticides, were detected in at least one sample at a depth between 0 to 15 ft bgs above the Unrestricted Use SCOs but below the Industrial Use SCOs.

The following constituents were detected in subsurface soils deeper than 15 ft bgs, above Industrial Use SCOs:

- Arsenic, lead, manganese, zinc
- Benzene, toluene, xylene
- Acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene

7.2.1.3 Groundwater

Constituents detected in shallow groundwater (from wells screened between 2.5 to 23 ft bgs), at concentrations above AWQSGVs include:

- BTEX
- Other VOCs (acetone, isopropylbenzene, methyl tert-butyl ether, styrene)
- PAHs (acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene)
- Other SVOCs (1,1'-biphenyl, 2,4-dimethylphenol, phenol)
- Pesticides (beta-BHC, 4,4'-DDE)
- Metals (antimony, arsenic, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium, total cyanide)

Constituents detected in intermediate and/or deep groundwater (from wells screened at greater than 25 ft bgs) at concentrations above AWQSGVs include:

- BTEX
- Other VOCs (1,2-dichloroethane, acetone, chloroform, cis-1,2-dichloroethene, isopropylbenzene, styrene, PCE, trans-1,2-dichloroethene, TCE, vinyl chloride)
- PAHs (acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene)
- Other SVOCs (1,1'-biphenyl, 2,4-dimethylphenol, bis[2-ethylhexyl] phthalate, phenol)
- Metals (arsenic, barium, copper, iron, magnesium, manganese, sodium, total cyanide)

7.2.1.4 Sub-Slab Vapor and Indoor/Ambient Air

Sub-slab vapor and indoor air samples were collected during five sampling events between November 2009 and March 2015. During each event an ambient air sample was also collected. During the first four sampling events (November 2009, March 2010, August 2010 and February 2011) the samples were collected from buildings located on the Site. During the fifth sampling event (March 2015) samples were collected from two buildings adjacent to the Site.

In November 2009, paired indoor air and sub-slab samples were collected from 222 Maspeth Ave and 252 Maspeth Ave. These locations were re-sampled in March 2010. In August 2010 and February 2011, the locations at 222 Maspeth Ave were sampled again. In March 2015, paired indoor air and sub-slab samples were collected from adjacent buildings at 1 Rewe StreetNAV (at the north end and the south end) and 7-9 Rewe Street.

Constituent concentrations detected in indoor air were compared to NYSDOH background indoor air values (NYSDOH, 2006), site-specific outdoor air concentrations, and the paired sub-slab vapor concentrations.

At the on-Site buildings, 15 constituents were detected in at least one indoor air sample at a concentration above NYSDOH's background indoor air values, including:

- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- 4-Ethyltoluene
- Ethylbenzene
- Hexane
- Naphthalene
- Styrene
- Toluene
- Xylenes
- 2-Butanone
- Carbon tetrachloride
- Chloroform
- Ethanol
- Methylene chloride
- TCE

Ten (10) of these constituents were not detected in the paired sub-slab sample or were detected at a lower concentration in the paired sub-slab sample, including: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, hexane, toluene, 2-butanone, carbon tetrachloride, ethanol, methylene chloride, and TCE. Therefore, these constituents are not considered to be from a subsurface source that has migrated to indoor air via the vapor intrusion pathway.

Ethylbenzene, styrene and xylene were detected in the indoor air samples at 222 Maspeth Avenue at concentrations above the NYSDOH indoor air during the November 2009 and August 2010 sampling events. During the November 2009 sampling events, the paired sub-slab concentration was above both the paired indoor air concentrations and the NYSDOH background indoor air values. During the subsequent events (March 2010, August 2010, and February 2011), the sub-slab concentrations at 222 Maspeth Avenue were all lower than the concentrations in the paired indoor air samples and less than NYSDOH indoor air values. Therefore, these constituents are not considered to be from a subsurface source that has migrated to indoor air via the vapor intrusion pathway.

Naphthalene was detected in the indoor air samples at 222 Maspeth Avenue above the NYSDOH background indoor air values with higher concentrations in the paired sub-slab during the November 2009 and March 2010 sampling events. Subsequent to these events, potential vapor migration pathways in this building were sealed and additional indoor air samples were collected during the August 2010 and February 2011 events. These indoor air concentrations were below the NYSDOH background indoor air values.

Chloroform was detected in the indoor air at 222 Maspeth Avenue at concentrations approximately equal to the NYSDOH background concentration in August 2010 and November 2011. It was also detected in sub-slab vapor at a higher concentration than in indoor air during these events. Chloroform was not detected in indoor air in the two sampling events conducted prior to August 2010. Chloroform can be found in products including paint, adhesives, and degreasers known to be present at this location.

In addition at the on-Site buildings, acetone, carbon disulfide, dichlorodifluoromethane, PCE, and trichlorofluoromethane were detected in at least one sub-slab sample at a concentration above the NYSDOH's background indoor air values. However, these constituents were not detected in the paired indoor air sample or were detected at a concentration below the NYSDOH's background values. Therefore, these constituents do not pose a health concern via the vapor intrusion pathway.

In the buildings off-Site on Rewe Street, three constituents (hexane, styrene, and PCE) were detected in at least one indoor air sample at a concentration above NYSDOH's background indoor air values. Hexane was not detected in any of the paired sub-slab vapor samples, therefore, hexane is not considered to be from a subsurface source that has migrated to indoor air via the vapor intrusion pathway. Styrene was detected in the paired sub-slab vapor samples at concentrations approximately equal to or lower than in indoor air. Therefore, styrene is also not considered to be from a subsurface source that has migrated to indoor air via the vapor intrusion pathway. PCE was detected in the paired

sub-slab vapor samples at concentrations lower than in indoor air. Therefore, PCE is also not considered to be from a subsurface source that has migrated to indoor air via the vapor intrusion pathway.

At the off-Site buildings, 1,3-butadiene, 2-butanone, acetone, carbon disulfide, chloroform, dichlorodifluoromethane, ethanol, and trichlorofluoromethane were detected in at least one sub-slab sample above the NYSDOH's background indoor air values. However, these constituents were not detected in the paired indoor air sample or they were detected in the paired indoor air sample at a concentration below the NYSDOH's background indoor air values. Therefore, these constituents do not pose a health concern via the vapor intrusion pathway.

Ambient air samples had concentrations greater than the NYSDOH background indoor air values for nine constituents (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, carbon tetrachloride, ethylbenzene, methylene chloride, styrene, PCE, toluene, and TCE). Since the Site is largely paved and the Site is in an industrial area, these elevated concentrations can be attributed to surrounding activities. Therefore, the constituents found in the ambient air are not considered to be from a Site-related subsurface source.

7.2.2 Potential Release Mechanisms

There are several potential release mechanisms by which the constituents detected in soil, groundwater, and soil vapor may be transported to other media. Each mechanism is considered for identified media and potential receptor group. It is assumed that direct contact with NAPL will pose an unacceptable risk and will not be evaluated as part of the QHHEA. Potential release mechanisms for soil include the following:

- Fugitive dust – Constituents detected in surface and subsurface soil could be a potential source for fugitive dust as a result of physical disturbance.
- Volatilization – Volatile constituents detected in surface and subsurface soil may potentially be transported by volatilizing into soil-pore space and eventually emanate -into outdoor or indoor air.
- Leaching – Constituents detected in surface and subsurface soil could potentially leach to groundwater.

Migration of chemical constituents in groundwater can act to transfer Site derived constituents off-Site. There are three mechanisms by which constituents in groundwater can be transported to other media. These migration pathways include the following:

- Adsorption – Constituents in groundwater may be sorbed onto subsurface soils.
- Volatilization – Volatile constituents in groundwater may potentially desorb into soil vapor and be transported into outdoor or indoor air.
- Extraction – Constituents in groundwater may migrate to other media by extraction and use of impacted groundwater.

There are two mechanisms by which volatile constituents in soil vapor can be transported to other media. These migration pathways include the following:

- Migration – Volatile constituents in soil vapor may migrate to indoor air through building foundations (i.e., vapor intrusion to indoor air).
- Migration – Volatile constituents in soil vapor may migrate to other media through soil to outdoor air.

7.2.3 Potential Human Receptors and Exposure Pathways

This section discusses identified potential human receptors and the potentially complete exposure pathways by which receptors may be exposed to Site-derived constituents. The following summary table provides an overview of the current and potential exposure pathways. Each pathway is discussed further below.

Environmental Media & Exposure Route	Human Exposure Assessment
Direct contact with surface soils (and incidental ingestion)	Typically, people are not coming into direct contact with surface soils, because contaminated surface soils are covered with pavement or buildings. People can come into contact with surface soil if they complete ground-intrusive work at the Site.
Direct contact with subsurface soils (and incidental ingestion)	People can come into contact with subsurface soil if they complete ground-intrusive work at the Site.
Ingestion of groundwater	There is no exposure to contaminated groundwater, because the area is served by the public water supply
Direct contact with groundwater	People can come into contact with groundwater if they complete ground-intrusive work at the Site
Inhalation of air (exposures related to soil vapor intrusion) building to prevent the indoor air quality	A soil vapor intrusion evaluation was completed for existing buildings. There is no exposure to soil vapor currently because pathways were sealed on-site. Soil vapor intrusion should be considered in the design of any new construction planned at the Site in the future.

7.2.3.1 Site Receptors

An assessment of potential exposure pathways for receptors in the Site area is presented in Figure 7-1. The analysis includes an identification of each potential receptor group, a listing of each potential exposure media and potential pathway, and a rationale for inclusion or exclusion of each potential receptor in the consideration of remedial actions for the Site where complete or potentially complete pathways exist. Potential receptor groups and potential exposure pathways that may exist for the Site are discussed below.

Site Indoor Industrial Workers

The Site is used for industrial purposes and is zoned for industrial land use. Current land use at the Site is expected to continue in the future. Industrial workers occupy the Site buildings, including full-time indoor workers and intermittent indoor maintenance workers. These workers may be exposed to volatile constituents present in the subsurface of the footprint of the buildings through the migration of impacted vapors to the indoor air of the building. Volatile constituents in sub-slab vapor and indoor air within the Site buildings have been detected above NYSDOH's background indoor air values. Elevated concentrations of naphthalene were detected in one building and potential migration pathways were sealed after the March 2010 sampling event. Subsequent indoor air samples showed

that the potential migration pathway for naphthalene had been effectively addressed. Therefore, inhalation of volatile constituents in indoor air is not considered to be complete for Site industrial workers.

Exposure to groundwater via drinking water is not a complete exposure pathway because the buildings are supplied by a municipal water source, which is derived from surface water sources up-state. Municipal water in the area is not derived from local groundwater.

Direct contact exposure to constituents in soil and groundwater is not considered complete for Site industrial workers because the Site is completely paved or under gravel, and because Site Industrial workers do not conduct intrusive work at the Site and so they are unlikely to directly contact soil and groundwater beneath the Site.

Site Outdoor Industrial Workers

Direct contact exposure to constituents in soil and groundwater is not considered complete for Site industrial workers because the Site is mostly paved, and because Site industrial workers do not conduct intrusive work at the Site and so are unlikely to directly contact soil and groundwater beneath the Site.

Volatile constituents were detected in the ambient air samples collected at the Site. Given the paved nature of the Site and industrial nature of the area, exposure to this ambient air is not considered for the Site.

Site Construction Workers

Constituents have been reported in subsurface soil and groundwater at concentrations in excess of Industrial Use SCOs and AWQSGVs. Outdoor construction workers may potentially be exposed to constituents in subsurface soils and groundwater through direct contact (dermal contact or incidental ingestion) or inhalation of particulates during intrusive construction activities.

Impacted groundwater is present beneath the Site at depths from approximately 7 to 8 ft bgs, making it potentially available for contact by a construction worker. Only properly trained field personnel should complete the subsurface utility work in this area using methods specified in a Site-specific HASP and in the ISMP until the area has been cleared of impacted soils and groundwater.

Site Visitors and Trespassers

The Site is covered almost entirely with impermeable surfaces and large industrial or commercial buildings therefore direct contact with the subsurface is unlikely for Site visitors and trespassers.

These receptors are unlikely to conduct intrusive work in the area, therefore, direct contact with reported constituents in subsurface soils and groundwater is not considered to be a complete exposure pathway.

Volatile constituents were detected in the ambient air samples collected at the Site. Given the paved nature of the Site and industrial nature of the area, exposure to this ambient air is not considered for the Site.

7.2.3.2 Off-Site Receptors

Potential off-Site receptor groups and potential exposure pathways for off-Site areas are discussed below. Analysis of each potential receptor group, potential media and pathways, and a rationale for inclusion or exclusion of each potential receptor in the consideration of remedial actions for the off-Site area have been included.

Off-Site Commercial and Industrial Receptors

The off-Site is covered almost entirely with impermeable surfaces and large industrial or commercial buildings. Industrial and commercial receptors are considered unlikely to conduct intrusive work and therefore direct contact with constituents in soil and groundwater is considered unlikely.

Detected constituents in indoor air samples collected off-Site that were above the NYSDOH background indoor air values are not attributable to soil vapor intrusion. Therefore, exposure to indoor air is not considered for the off-Site commercial and industrial receptors.

Constituents in the ambient air sample collected off-Site were below the NYSDOH background indoor air values and exposure to this ambient air is not considered for the off-Site commercial and industrial receptors.

Off-Site Construction Workers

Constituents have been reported in off-Site surface soil, subsurface soil and groundwater at concentrations in excess of Industrial Use SCOs and AWQSGVs beneath certain portions of the off-Site areas. Outdoor construction workers may potentially be exposed to constituents in subsurface soils and groundwater through direct contact (dermal contact or incidental ingestion) or inhalation of particulates during intrusive construction activities.

It is recommended that only properly trained field personnel should complete the subsurface utility work in these areas using methods specified in a Site-specific HASP until the area has been cleared of impacted groundwater or if deep excavation (greater than 15 ft bgs) is planned.

7.2.4 Summary of Receptors and Potentially Complete Exposure Pathways

A summary of the environmental media, potential receptors and potentially complete exposure pathways has been provided in the following table. Potential receptors are based on Site use and adjacent site uses, and the potential for future uses and activities (i.e., construction/ utility activities). Potentially complete exposure pathways are identified if a receptor has a current or potential future exposure to impacted media.

Location	Media	Exposure Routes	Indoor Commercial/ - Industrial Worker	Outdoor Commercial/ Industrial Worker	Construction/ Utility Worker	Visitor/Trespasser
Site	Surface Soil	Inhalation (volatiles and particulates) Direct Contact (incidental ingestion, dermal contact)	×	×	✓	×
	Subsurface Soil	Inhalation (volatiles and particulates) Direct Contact (incidental ingestion dermal contact)	×	×	✓	×
	Groundwater	Ingestion Direct Contact	×	×	✓	×
	Soil Vapor	Inhalation	×	×	×	×
	Indoor Air	Inhalation	×	×	×	×
	Ambient Air	Inhalation	×	×	×	×
Off-site	Surface Soil	Inhalation (volatiles and particulates) Direct Contact (incidental ingestion, dermal contact)	×	×	✓	×
	Subsurface Soil	Inhalation (volatiles and particulates) Direct Contact (incidental ingestion, dermal contact)	×	×	✓	×
	Groundwater	Ingestion Direct Contact	×	×	✓	×
	Soil Vapor	Inhalation	×	×	×	×

Note:
× Incomplete Exposure Pathway
✓ Complete Exposure Pathway

7.3 Conclusions

Complete exposure pathways have not been identified for Site and off-Site commercial/industrial workers, visitors and trespassers.

Site and off-Site construction workers who perform excavation work on or adjacent to the Site may potentially be exposed to VOCs, SVOCs, metals and/or pesticides in subsurface soil and groundwater if subsurface excavation work is needed adjacent to or at the Site. Only properly trained field personnel should complete the subsurface work in this area using methods specified in a Site-specific HASP and ISMP until the area has been cleared of impacted soils and groundwater.

8.0 Fish and Wildlife Resources Impact Analysis

The Site was assessed against the Fish and Wildlife Resources Impact Analysis (FWRIA) Decision Key (NYSDEC, 2010; DER-10, Appendix 3C) to determine if a FWRIA is required. Based on this evaluation no FWRIA is required. The decision key and rationale for the selections is provided below.

Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1. Is the Site or area of concern a discharge or spill event?	13	2
⋮		
13. Does the contamination at the Site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14. No Fish and Wildlife Resources Impact Analysis needed.		

Note:
Potential resources consist of the following: any endangered, threatened or special concern species or rare plants or their habitat; any DEC designated significant habitats or rare NYS Ecological Communities; tidal or freshwater wetlands; stream, creek or river; pond, lake, lagoon; drainage ditch or channel; other surface water feature; other marine or freshwater habitat; forest; grassland or grassy field; parkland or woodland; shrubby area; urban wildlife habitat; and other terrestrial habitat.

The available Site data suggest that releases on the Site are a source of environmental impacts in the subsurface at the Site. Discharges have resulted in subsurface soil and groundwater contamination. NAPL has migrated to the east in the interbedded sand and silt beds above the Intermediate Clay (encountered between 40 and 52 ft bgs). It is currently observed in isolated sand lenses within the depth interval of approximately 25 to 50 ft bgs throughout an approximately 48,200 square foot area beneath the 222, 252, and 254 Maspeth Avenue properties. Although the migration of NAPL has been largely controlled by the heterogeneity of the grain sizes in the finely interbedded sands and silts, the overall migration pathway is controlled by the contours of the various lower conductivity surfaces.

Shallow soil impacts were also observed. There is no defined source of the environmental impacts in the shallow soil. For the purpose of this evaluation, the residual shallow soil impacts are assumed to be the result of discharges or spills that occurred during former or current Site operations or from the past placement of urban fill across the area.

No fish or wildlife resources were observed on the industrial Site or surrounding properties. No environmental resources were identified in the vicinity of the Site using NYSDEC's Environmental Resource Mapper (Figure 8-1) with the exception of SD classified water bodies: Newtown Creek, Maspeth Creek, and the English Kills tributary of Newtown Creek. English Kills is located closest to the Site at a distance of 700 ft. Class SD waters are suitable for fish, shellfish and wildlife survival. Water bodies with this classification may not meet the requirements for fish propagation, because of

natural or manmade conditions. Although the absence of other resources presented in the NYSDEC's Environmental Resource Mapper in the vicinity of the Site does not rule out the presence of potential environmental resources, these findings are consistent with heavily industrialized nature of this portion of Brooklyn, NY and observations at the Site.

The presence of the pavement, buildings and other structures on-Site and off-Site, and the contours of the various lower conductivity surfaces prevent potential ecological receptors from contacting impacted media. The on-Site and off-Site areas where impacted media has been observed (300 Maspeth Avenue (FedEx), 1 Rewe Street (Fesco), and 7 and 9 Rewe Street (West Terminal, LLC)) are largely paved or covered with buildings. The current Site operator, Cooper Tank, plans to expand operation of the 222 Maspeth Avenue facility into the 252 and 254 Maspeth Avenue properties. For this expansion, Cooper Tank is required to construct a minimum 8-inch thick concrete pad across the entire surface of the Site, a storm water collection system, and a 30-foot high wall along the perimeter of the 254 Maspeth Avenue property is required. In 2012, prior to construction, National Grid implemented an IRM, removing residual impacted soil observed in the shallow soil and in other areas where construction was planned. Details of the shallow soil IRM are presented in the Shallow Soil Interim Remedial Measure Completion Report (AECOM, 2014). At this time, the construction of the concrete pad has been completed on 254 Maspeth Avenue by Cooper Tank, as well as the storm water collection system and perimeter walls.

Off-Site migration of NAPL in subsurface soils is limited by the IRM installed between 2013 and 2014 by National Grid. The IRM activities included installation of five NAPL recovery wells at appropriate locations within the central areas of the Site to reduce the quantity of NAPL; installation of 18 recovery wells at selected perimeter locations; and measurement and recovery of NAPL that collects in the recovery wells. Operation of the NAPL recovery system is on-going. More information on the NAPL recovery system is available in the Completion Report, Interim Remedial Measure for NAPL Recovery (AECOM, 2015a) provided in Appendix N.

No potential means for on-Site or off-Site impacted media which is related to the Site to migrate to, erode into, or otherwise impact, any potential on-Site or off-Site environmental resources were identified. The impacted media is located beneath barriers (pavement, buildings, and other structures). In addition, the extent of NAPL has been delineated and is limited to on-Site and immediately adjacent off-Site areas and its migration is being further limited by the NAPL recovery system. Therefore, no FWRIA is required.

9.0 Conceptual Site Model

The Conceptual Site Model (CSM) developed for the Site summarizes the physical, chemical, and biological processes that influence the release and migration of contaminants in all Site media (soil, groundwater, and soil vapor) while describing the potential for environmental or human receptor exposure. The CSM was developed early during the RI process and refined as more data were available to direct subsequent rounds of investigation and to support remedial decisions including the completion of two IRMs at the Site.

9.1 Source Areas and Contaminant Migration Pathways

The evaluation of the history and use of the RI Study Area demonstrated the potential for environmental impacts from a number of industrial and manufacturing sources that used feedstocks or managed products that have similar physical and/ or chemical characteristics as those associated with the MGP process. As a result, the data collected during the RI, and summarized below, may not clearly identify a specific historic, or on-going source.

9.1.1 NAPL and Soils

Based on Site history and RI findings, the No. 1 Relief holder and adjacent structures on the 222 Maspeth Avenue parcel and the western edge of the 254 Maspeth Avenue parcel including the tar tank and settling tank, drip tanks, and separator were identified as the primary source areas for both NAPL and dissolved phase chemicals in the groundwater (Figure 2-4). A lesser amount of impacts were noted in the western portion of the 254 Maspeth Avenue parcel near the former No. 1 and No. 2 Oil Tanks, where a small amount (0.1 foot) of lighter-than-water NAPL (LNAPL) was observed in one monitoring well (MW-4A) screened at the water table. The lack of LNAPL observed in nearby water table wells indicated an isolated amount of LNAPL was released in this area.

Releases of NAPL migrated vertically downward through the fill under density driven flow until it reached the former natural ground surface (meadow mat), where portions of it spread laterally to the north and east within or on top of the meadow mat surface. There may be a potential preferential pathway of NAPL above and within the meadow mat beneath the 300 Maspeth Avenue property that roughly aligns with the 1900s-era former water course: however, no obvious channel morphology or noticeable differences in soil permeability were noted in this area compared to nearby areas (Figure 5-2). Despite this finding, it is clear from the data that there was not a significant amount of NAPL present in this area, and that it had a limited potential to migrate east of the RI Study Area based on the residual, i.e. not saturated nature, of impacts documented.

Some of the NAPL released migrated vertically under density driven flow into the underlying more permeable glacial outwash sands, where it pooled on first confining unit (identified in this RI as the intermediate clay later) and spread laterally to the east and to a lesser extent to the north and south closely aligning with the topography of the top of the intermediate clay unit (from higher elevations to lower elevation areas) (Figure 5-3). The intermediate clay unit pinches out under the 222 Maspeth Avenue parcel roughly mid-way beneath the former No. 1 Relief Holder (Figure 4-9) and is not present at borings advanced west of this area.

The absence of the confining intermediate clay allowed portions of the released NAPL to migrate vertically downward past the edge of the pinched out intermediate clay unit under density driven flow through the glacial outwash sands until it reached the next confining or semi-confining layer below the intermediate clay, which was identified in this RI and the lower clay lens. The lower clay lens is a discontinuous clay unit observed in a subset of borings beneath the 222, 252, and western portion of the 254 Maspeth Avenue parcels, and extending to the north onto the Greenpoint property and to the south beneath 1 Rewe Street and the western portion of 7-9 Rewe Street. NAPL collecting above this surface followed the topography of the surface (from higher to lower elevations) and was responsible for the presence of NAPL in the former dust suppression well (PW-1) located at the 222 Maspeth Avenue parcel (Figure 5-4). Similar to the intermediate clay unit, the lower clay lens is absent in the western portion of the 222 Maspeth Avenue parcel.

The absence of the lower clay lens beneath a portion of the 222 Maspeth Avenue parcel allowed some of the released NAPL to migrate vertically downward past the edges of the pinched out intermediate clay and lower clay lenses to the top of the next confining unit below the lower clay lens, which was identified as the Gardiners Clay (Figure 5-5). The Gardiners Clay is a regional confining unit in the area. As the NAPL continued to migrate further from its source, the volume of the NAPL and the driving head of the NAPL decreased. As a result, the least amount of NAPL was observed at the top of the Gardiners Clay surface. Where present, NAPL presence aligned with the topography of the top of the Gardiners Clay surface. NAPL was observed in one boring southwest of former Relief Holder No. 1 (MW-1C) downslope from the holder area based on the top of the Gardiners Clay topography, one boring north of and downslope the holder (SB-27), and two borings east of and downslope from the holder (SB-29 and SB-22). The presence of NAPL at SB-22 is interpreted to be the result of the lower clay lens pinching out in close proximity to the boring at a location that correlates to a topographic high in the Gardiners Clay such that any NAPL perching on the lower clay lens in this area would migrate to the top of the Gardiners Clay in this area, as illustrated when comparing Figures 5-4 and 5-5. The deepest NAPL impacts were noted above the Gardiners Clay contact at a depth of 100 ft bgs (elevation -81.5 ft NAVD88) at boring SB-27.

The majority of the released NAPL was observed above the intermediate clay unit, at typical depths of 45 to 50 ft bgs (elevation -30 to -35 ft NAVD88). This is evidenced by the number of wells above this surface that contained NAPL compared to the other vertical zones as well as the recoverability characteristics of the NAPL from these wells compared to NAPL removed from wells screened at shallower (above the meadow mat) or deeper zones (above the lower clay lens or above the Gardiners Clay). As such, NAPL recovery IRM efforts were focused on NAPL present above the intermediate clay unit, as outlined in Section 6.

The extent of observed NAPL-related impacts in soils was determined at all depth intervals during the RI and defined by the following borings completed within the RI Study Area. The lateral extent of impacts is controlled by the topography of the various lower conductivity units beneath the site. A visual depiction of the extent of observed NAPL-related impacts is provided on Figure 5-2 through 5-5.

<u>Above and Within the Meadow Mat</u>

- Borings SB-34, SB-33, SB-35 to the north of the Site
- Borings SB-42, SB-41, SB-31, SB-43, SB-45, SB-44, SB-47, SB-39, T3-SB-series borings, T4-SB-series borings T2-SB4, and T2-SB5 to the south of the Site
- Borings SB-26, SB-25, T2-SB1 through SB-6, SB-38, SB-36T5-SB-3 through SB-8, and T6-series borings to the east of the Site

- Borings SB-6, SB-24, SB-1, SB-23, and SB-32 to the west of the Site

Above the Intermediate Clay Unit

- Borings SB-28, SB-24, SB-35, and GPEC-SB334 to the north of the Site
- Borings SB-1, SB-23, SB-32, SB-42, SB-44, SB-45, SB-39, SB-46, and SB-47 to the south of the Site
- Borings SPEC-SB331, SB-26, SB-4, SB-25, SB-36, SB-37, and SB-38 to the east of the Site
- Borings SB-34, SB-6, SB-24, SB-23, and SB-32 to the west of the Site

Above the Lower Clay Lens Unit

- Borings SB-27, SB-28, SB-33, SB-34, and GPEC-SB333 to the north of the Site
- Borings SB-32, SB-31, SB-21, and SB-39 to the south of the Site
- Borings SB-26, SB-25, SB-36, SB-37, and SB-38 to the east of the Site
- Borings SB-24, SB-1, SB-19, SB-23, and SB-32 to the west of the Site

Above the Gardiners Clay Unit

- Borings SB-34, SB-33, SB-28, and GPEC-SB222 to the north of the Site
- Borings SB-32, SB-31, SB-21, and SB-39 to the south of the Site
- Borings SB-16, SB-26, SB-25, SB-36, SB-37, and SB-38 to the east of the Site
- Borings SB-24, SB-23, and SB-32 to the west of the Site

Given the land use density in the RI Study Area, NAPL and soil impacts are present beyond the Site boundaries. In general, the impacts extend to the north beneath Maspeth Avenue and under a portion of National Grid's Greenpoint Energy Center, to the south beneath the northern portions of the 1 Rewe Street and 7-9 Rewe Street properties, to the west beneath a portion of the 1 Rewe Street property and the sidewalk adjacent to Vandervoort Avenue, and the east beneath portions of the 300 Maspeth Avenue property. As expected, concentrations of BTEX and PAHs in soils decrease significantly or are non-detectable at borings outside the observed extent of NAPL both laterally and vertically.

While utilities are present within the area of identified soil impacts, the shallow depth of utilities compared to the observed depth of impacts minimizes the potential for preferential migration of any impacts along utility corridors. To date, no preferential contaminant migration pathways along utilities has been detected.

No wetlands or ecological habitats are present within the identified area of impacts. There are also no residences, schools, or parks within the identified area of impacts.

9.1.2 Groundwater and Soil Vapor

Groundwater flow beneath the RI Study Area in the shallow, intermediate, and deep overburden aquifer zones is generally to the east and southeast. Influences from pumping at the nearby Brooklyn Truck Wash facility located at 184 Maspeth Avenue have caused localized influences in groundwater flow along the western portion of the Site at intermediate zone wells. Aside from the Brooklyn Truck

Wash, there are no other known users of groundwater in the area adjacent to the Site. All drinking water is supplied by the City.

The highest levels of dissolved BTEX and PAHs in water table wells were noted at GW-1 adjacent to former No. 1 Relief Holder and at MW-4A adjacent to the former No. 1 and No. 2 Oil Tanks (Figure 5-10). Low to non-detect BTEX and PAHs were noted along the western, upgradient portion of the Site. Low to non-detect levels of BTEX and PAHs were also noted at the furthest downgradient wells at 7-9 Rewe Street and 300 Maspeth Avenue downgradient from the Site. Groundwater elevations and gradient data indicate that dissolved phase constituents move downward to the intermediate or deep zones and then move horizontally. Shallow dissolved phase constituents that may be detected at downgradient off-Site areas are more likely attributable to property specific activities and not off-Site migration from the Site based on this finding. In summary, the lower level of impacts in the shallow fill material compared to the deeper zones combined with the strong downward gradients in the water table wells has produced a condition where there is less potential for dissolved phase constituents to migrate off-Site in shallow groundwater.

Furthermore, under part of the Site and adjacent off-Site areas there is also a lower potential for vapor intrusion issues because groundwater concentrations of volatile constituents at the water table are lower than in the deeper portions of the overburden aquifer which contain higher dissolved phase impacts. Volatilization, biodegradation, and dispersion (dilution) of dissolved phase impacts in water table wells would act to further mitigate the potential for vapor intrusion from the subsurface to indoor or ambient air. The soil vapor and indoor air data collected from 252 Maspeth Ave and the buildings on Rewe Street support these findings, as there were no exceedances of the NYSDOH background concentrations. Vapor intrusion sample results from the office structure at 222 Maspeth Ave did show the potential for migration of constituents from soil vapor to indoor air. As a result, remedial actions were taken to seal the identified migration pathways (utility conduits and floor slab opening) into the building as discussed in Section 6.1.

Dissolved phase impacts in the intermediate portion of the overburden aquifer are generally the highest observed at the Site, consistent with this zone containing the most widespread presence of NAPL. Dissolved BTEX and PAHs were highest at on-Site wells MW-5B and MW-7B and decreasing in the direction of groundwater flow towards MW-19B along Rewe Street (Figure 5-11). Decreases in dissolved BTEX and PAHs along the primary groundwater flow path for this interval of the overburden aquifer are the result of advection (i.e., groundwater flow), dispersion, retardation, and biodegradation, as expected. A further decrease of concentrations in downgradient areas outside of the RI Study Area is expected due to the continued effect of these processes. Low (< 100 µg/L) to non-detectable levels of BTEX and PAHs were noted at upgradient wells along Vandervoort Avenue and at downgradient and cross-gradient wells to the east of the Site at FedEx.

Dissolved phase impacts in the deepest portion of the overburden aquifer above the Gardiners Clay are generally consistent with the overlying intermediate zone. Based on upward gradients from the deep to intermediate groundwater zones at the Site, the deep groundwater zone is not expected to be receiving dissolved phase chemicals from the shallow and intermediate zones. Rather the dissolved phase constituents in the deep groundwater zone likely originate from NAPLs that have migrated to the deep formation through flow along seams of higher permeability coupled with density-driven flow. Dissolved BTEX and PAHs were highest at MW-3C and MW-8C within the Site boundary and decreasing in the direction of groundwater flow towards MW-16C along the eastern side of the 300 Maspeth Avenue property (Figure 5-12). Similar to the intermediate overburden portion of the aquifer, decreases in dissolved BTEX and PAHs along the primary groundwater flow path for this interval of

the aquifer are the result of advection (i.e., groundwater flow), dispersion, retardation, and biodegradation, as expected. The hydraulic conductivity in the deep groundwater zone is slightly higher than in the intermediate zone. Low (< 100 µg/L) to non-detectable levels of BTEX and PAHs were noted at upgradient wells along Vandervoort Avenue and at downgradient and cross-gradient wells MW-17C and MW-18C to the east of the Site at FedEx.

9.1.3 Sediments and Surface Water

No sediment depositional areas are present adjacent to the Site. The closest surface water body is the English Kills tributary of Newtown Creek, located approximately 700 ft southeast of the Site. Groundwater from the overburden aquifer, primarily from the intermediate and deeper portions of the aquifer, flows to the east-southeast towards English Kills. No NAPL was observed or detected in any of the downgradient most borings or wells. Any levels of dissolved phase constituents in groundwater discharging to English Kills will be degraded by mixing and biodegradation with surface water.

9.1.4 Ecological and Human Receptors

There is minimal to no risk for ecological receptor impacts at the Site given the lack of habitat, the industrial nature of the RI Study Area, and the transient nature of wildlife in urban areas.

As discussed in Section 7, there are potentially complete pathways for human receptors to come into contact with chemical compounds detected in surface soil, subsurface soil, and groundwater. Potential future construction workers who perform excavation work on or adjacent to the Site may potentially be exposed to contaminants in subsurface soil and groundwater if subsurface excavation work is needed adjacent to or at the Site.

10.0 Summary and Conclusions

This section summarizes the Remedial Investigation findings for the RI Study Area. An overview of the nature and extent of COCs is presented by media and known and potential source areas and migration pathways are identified.

10.1 Site Geology

- Historic fill material covers the majority of the RI Study Area in a layer typically ranging from 15 to 25 ft thick.
- The fill is comprised of mostly poorly graded sand, silt, and gravel with varying amounts of anthropogenic material: coal fragments, ash, concrete slabs, wood pieces, wood fragments, brick fragments, and glass. It can contain elevated levels of PAHs from a variety of urban sources. Other urban fill debris including carpeting and metal scraps consistent with the sites most recent use as a waste transfer station were also encountered.
- In a few isolated locations, a fine sand unit with little silt was observed above the meadow mat, and represented post glacial deposition. The thickness of the unit is less than 10 ft.
- Meadow mat (peat and clay) was observed to be present in all areas of the RI Study Area underlying fill in thicknesses typically ranging up to 4 to 20 ft. The meadow mat represents the former ground surface prior to development (filling) in the site area and is mostly continuous, which is consistent with the historic marshy environment of this area.
- Beneath the bottom of the meadow mat are units of glacial outwash dominated by sands and silts. The sands and silts are identified as the Intermediate Sands. The unit varies in composition, occurring as tan and grey interbedded sand and silt beds and as well graded to poorly graded sands and silt zones. This layer ranges from 5 to 20 ft thick and was generally encountered 20 ft to 30 ft bgs. With depth, the percentages of fines tend to increase.
- Beneath the intermediate sands, the percentages of fines tend to increase until a sharp transition to dense, hard clay with silt and sand lenses, identified as the “Interbedded Clay.” This clayey unit represents a localized confining layer beneath a large portion of the Site footprint. This layer ranges from 19 to 35 ft thick, was generally encountered 36 ft to 52 ft bgs.
- Beneath the Intermediate Clay unit is another sequence of Upper Pleistocene glacial outwash deposits comprised of interbedded sands and silts described as the “Lower Sand” unit. These deposits were documented in all site borings beneath the RI Study Area below the Intermediate Clay unit, beneath the Lower Clay lens, and in areas where the Intermediate Clay unit was absent. This layer ranges from 5 to 10 ft where the intermediate and the low clay units are present to 40 ft thick along the western side of the site. The top of the unit was generally encountered between 46 ft to 80 ft bgs.
- A clay lens labelled the “Lower Clay” lens was identified in several borings within the Lower Sand unit, primarily beneath the 222 and 252 Maspeth Avenue parcels. This lens acts as a localized confining layer where present. This unit ranges from 5 to 10 ft thick and was generally encountered between 78 ft to 86 ft bgs.

- The Gardiners Clay is present beneath all areas of the RI Study Area that were investigated. Lignite is present at the top of the Gardiners Clay at select borings. The unit is comprised of a high plasticity, stiff, blue to greenish gray clay and silty clay. The Gardiners Clay was typically encountered at depths of 80 to 100 ft bgs and was observed to be approximately 97 ft thick at one boring that was advanced through the clay.
- Competent bedrock was encountered at one soil boring at the 222 Maspeth Avenue parcel at a depth of 192.0 ft bgs. The bedrock was comprised of schist identified as the Hartland Schist on the Bedrock and Engineering Geologic Map of New York County and Parts of Kings and Queens Counties, New York (USGS, 1994). There was an observed weathered saprolite zone in the upper 15 ft of bedrock starting at 177 ft bgs showing relic bedrock structures. In general, the bedrock is relatively impermeable, with water transmitted along faults and fractures (Misut and Monti, 1999).

10.2 Site Hydrogeology

- It is estimated that only 15% of precipitation enters the groundwater through recharge in the RI Study Area due to the relatively impervious nature of the RI Study Area surface.
- The surface of the groundwater table was encountered between 5 to 8 ft bgs across the RI Study Area.
- Three groundwater zones beneath the RI Study Area were evaluated during the RI using shallow wells screened across the water table surface in the fill, at depths generally ranging from 5 to 18 ft bgs; intermediate wells screened within sands below the meadow mat at depths generally ranging from 30 to 40 ft bgs; and deep wells screened within the lower sands above the Gardiners Clay unit at general depths from 70 to 80 ft with select wells screened deeper to as required to screen the top of the Gardiners Clay surface.
- Groundwater flows generally from the northwest to the east and southeast under all tidal conditions in all aquifer zones (shallow, intermediate, and deep).
- The deep zone wells beneath the 254 Maspeth Avenue parcel (closest to the English Kills tributary of Newtown Creek) are tidally influenced. No tidal influences were noted in deep wells further to the west beneath the Site.
- Horizontal hydraulic gradients calculated from well gauging ranged from 1.83×10^{-3} ft/ft to 2.6×10^{-2} ft/ft in shallow zone wells, 2.15×10^{-3} ft/ft to 1.22×10^{-2} ft/ft in intermediate zone wells, and 9.88×10^{-4} ft/ft to 6.43×10^{-3} ft/ft in deep zone wells. A generally downward vertical hydraulic gradient is present between shallow zone and intermediate zone wells and a general upward gradient was noted between deep zone wells and intermediate zone wells.
- The average calculated hydraulic conductivity of the shallow, intermediate, and deep zones were 23.8 ft/day, 2.23 ft/day, and 16.0 ft/day, respectively.
- Groundwater seepage velocity estimated in intermediate zone wells ranged from 7.5 to 43 ft/year and from 2.4 to 22.5 ft/year in deep zone wells.

10.3 Nature and Extent of Constituents of Interest

Four media were investigated at the RI Study Area: surface soil, subsurface soil, groundwater, and sub-slab vapor/indoor air. Conclusions for each media are summarized below.

10.3.1 Surface Soil

- Four surface soil samples were collected and analyzed during the RI.
- VOCs, including BTEX, were not detected in the surface soil samples.
- Several PAHs were detected above the Unrestricted Use SCOs but below the Industrial Use SCOs in three of the samples. Total PAH concentrations ranged between 6.03 mg/kg and 92.33 mg/kg in the surface soil samples. Only benzo(a)pyrene was detected in three of the samples at concentrations above its Industrial Use SCO. A few other SVOCs were detected at concentrations below the Unrestricted Use and Industrial Use SCOs.
- Several metals were detected in each surface soil sample at concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Free cyanide was not detected in any of the surface soil samples.
- PCB aroclors were detected above the Unrestricted Use SCO of 0.1 in all of the surface soil samples, ranging from 0.151 mg/kg to 0.258 mg/kg and were below the Industrial Use SCO of 25 mg/kg. Several pesticides were detected in all of the surface soil samples at concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. A couple herbicides were detected in each sample but below the Unrestricted Use SCOs. PCBs and pesticides are not associated with MGPs and are interpreted to be related to the presence of urban fill or post-MGP operations.
- The majority of the Site is covered with impervious materials and has been redeveloped since the cessation of MGP operations.

10.3.2 Subsurface Soil

A total of 171 soil samples, including nine duplicate samples, were collected and analyzed from subsurface soils.

- BTEX compounds were detected in many of the subsurface soil samples collected.
  - From 0 to 20 ft bgs, individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in 22 of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only two of these subsurface samples: SB-10(16-18) and SB-13(18-24). Four VOCs other than BTEX compounds were detected in subsurface soil samples collected from 0 to 20 ft bgs at concentrations above the Unrestricted Use SCOs; however, none of these detections were above the Industrial Use SCOs. Acetone was detected in a number of samples above its Unrestricted Use SCO. In one sample T1-SB7 (16.5-17.5), 1,2-dichlorobenzene, 1,4-dichlorobenzene and chlorobenzene were detected above the Unrestricted Use SCOs.
  - From 20-40 ft bgs, individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in 20 of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only three of these subsurface samples. Two VOCs other than BTEX compounds were detected in subsurface soil samples collected from 20 to 40 ft bgs at concentrations above the Unrestricted Use SCOs. Acetone was detected in four samples above its Unrestricted Use SCO, and 2-butanone was detected in one sample. However, none of these detections were above the Industrial Use SCOs.

  - From 40 to 60 ft bgs, individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in nine of these subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only one of these subsurface samples. No other VOCs other than BTEX compounds were detected in subsurface soil samples collected from 40 to 60 ft bgs at concentrations above the Unrestricted Use SCOs.
  - From greater than 60 ft bgs, individual BTEX compounds were detected at concentrations above the Unrestricted Use SCOs in nine of the subsurface soil samples. However, concentrations of individual BTEX compounds were detected above the Industrial Use SCOs in only two of the subsurface samples. There was only one detection of a VOC other than BTEX compounds (acetone) at a concentration above the Unrestricted Use SCOs, but below the Industrial Use SCOs.

- PAH compounds were detected in many of the subsurface soil samples collected.
  - From 0 to 20 ft bgs, individual PAH compounds were detected at concentrations above the Industrial Use SCOs in 54 of these subsurface samples. An additional four samples had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Seven SVOCs other than PAH compounds were detected in subsurface soil samples collected from 0 to 20 ft bgs at concentrations above the Unrestricted Use SCOs, but only one of these detections was above the Industrial Use SCO (dibenzofuran). Phenolic compounds (including 2-methylphenol, 3-and 4-methylphenol, 4-methylphenol, and phenol) were detected in eight samples from seven locations at concentrations above the Unrestricted Use SCOs. All but one of these locations was located on the Site.
  - From 20-40 ft bgs, individual PAH compounds were detected at concentrations above the Industrial Use SCOs in 14 of these subsurface samples. One additional sample had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Four SVOCs other than PAH compounds were detected in subsurface soil samples at concentrations above the Unrestricted Use SCOs; however, none of these detections were above the Industrial Use SCOs. Phenolic compounds (including 2-methylphenol, 3-and 4-methylphenol, and phenol) were detected in four samples at concentrations above the Unrestricted Use SCOs. Dibenzofuran was detected in seven samples above its Unrestricted Use SCO.
  - From 40 to 60 ft bgs, individual PAH compounds were detected at concentrations above the Industrial Use SCOs in only three of these 28 subsurface samples. One additional sample had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. Dibenzofuran was the only non-PAH SVOC compound detected in subsurface soil samples at concentrations above the Unrestricted Use SCOs, and neither of those two detections were above the Industrial Use SCOs.
  - From greater than 60 ft bgs, individual PAH compounds were detected at concentrations above the Industrial Use SCOs in only six of these 27 subsurface samples. No other samples had individual PAH concentrations above the Unrestricted Use SCOs but below the Industrial Use SCOs. No SVOCs other than PAH compounds were detected in subsurface soil samples at concentrations above the Unrestricted or Industrial Use SCOs.

- Total cyanide was detected in seven of the sixteen soil samples analyzed. Detections ranged from 0.16 J mg/kg in SB-29 (0-5) to 27.5 mg/kg in TP-16 (5-6). Only the detection from TP-16(5-6) exceeded the Unrestricted Use SCO of 27 mg/kg, however, this sample location has

since been excavated. Free cyanide was detected in only three of the seventy-two samples analyzed. Detections ranged from 0.75 mg/kg in SB-8 (24-26) to 12.4 mg/kg in SB-13 (18-24). Available cyanide was detected in eight of the seventeen samples analyzed. Detections ranged from 0.055 mg/kg in SB-19 (2-5) to 0.853 J mg/kg in TP-4 (7-7.5). The detected concentrations of free or available cyanide were all below the Unrestricted Use SCO for total cyanide of 27 mg/kg.

- Metals were detected in all of the subsurface soil samples analyzed. Only five metals had soil detections above the Industrial Use SCOs: arsenic, lead, manganese, mercury, and zinc. For arsenic, twenty-three samples had a concentration above the Industrial Use SCO of 16 mg/kg. For lead, only two samples exceeded the Industrial Use SCO of 3,900 mg/kg. For mercury, only two samples exceeded the Industrial Use SCO of 5.7 mg/kg. The only exceedances of the Industrial Use SCOs for manganese and zinc (both are 10,000 mg/kg) came from SB-45 (18-20).
- Pesticides and herbicides were detected in 10 of the 15 subsurface soil samples analyzed. None of the results exceeded the Industrial Use SCOs and none of the detections of herbicides exceeded the Unrestricted Use SCOs. The following pesticides were detected in at least one sample above the Unrestricted Use SCOs but below the Industrial Use SCOs: aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin. The pesticide 4,4'-DDT was detected above its Unrestricted Use SCO in the most samples (nine samples).
- PCB aroclors were analyzed in 45 of the subsurface soil samples. Most of these samples were from 20 ft bgs or shallower. PCBs were detected in 15 of those samples with total PCB concentrations ranging from 0.0495 mg/kg in T2-SB4 (5-10) to 5.85 mg/kg in SB-17 (1-2). No Unrestricted Use or Industrial Use SCOs are listed for individual aroclors. All but two of the detections were above the Unrestricted Use SCO for total PCBs but below the Industrial Use SCO. Most of the results above the Unrestricted Use SCOs were from on the Site from the top 5 ft of the subsurface in fill material imported following cessation of MGP operations.
- TPH detections ranged from 52.5 mg/kg [T1-SB8 (17-18.5)] to 17,500 mg/kg [T1-SB7 (22-23)]. The highest detections were from the borings directly east of the former off-Site fuel oil bulk storage area, in the area of the former 10,000 gallon USTs identified on the west side of the FedEx building. DRO was detected in 37 of the 40 samples at concentrations ranging from 13 mg/kg [SB-43 (49-50)] to 160,000 mg/kg [TP-16 (5-6)]. The highest detections were at TP-16 (5-6) (note that this area has since been excavated) and T5-SB2 (18-19) which is located on the east side of the FedEx building near monitoring well MW-16A.
  - Concentrations of DRO were elevated at SB-47(10-14) advanced within the former bulk oil storage facility beneath 9 Rewe Street, consistent with the type of fuels (fuel oil) reportedly stored at that facility.
  - GRO was detected in 18 of the 40 samples at concentrations ranging from 1.9 mg/kg [SB-41(5-10)] to 2,500 mg/kg [SB-40 (20-23.5)].

Results of all subsurface soil sampling indicate a general delineation of constituents of interest both horizontally and vertically across the RI study area. The nature and extent of environmental impacts within the RI Study Area is affected by a number of factors including historic land use and the contribution from surrounding sources. In an area with such a complex history of industrial use, it can be difficult to confirm the origin of delineated impacts, which may be the result of commingled sources in some areas.

10.3.3 Groundwater

During the RI, 38 monitoring wells were installed and sampled. A total of 42 samples, including four duplicate samples, were collected and analyzed. In addition, a sample was collected from the existing on-Site pumping well (PW-1) and groundwater grab samples were collected from two borings (GW-1 and SB-20J) located within the 222 Maspeth Avenue parcel.

Groundwater samples collected beneath and adjacent to the RI Study Area contain compounds at concentrations above the AWQSGVs. These compounds include BTEX, PAHs, cyanide, acetone, isopropyl benzene, chlorinated VOCs, and MTBE. These compounds were detected at varying concentrations in the shallow, intermediate, and deep groundwater zones sampled during the RI.

10.3.3.1 Shallow Zone Wells

- Twelve (12) shallow monitoring wells were installed during the RI. Seven of the 14 shallow groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs. BTEX compounds were not detected at four locations. Where detected, total BTEX concentrations ranged from 0.13 µg/L (MW-8A) to 15,500 µg/L (GW-1). The highest BTEX concentrations were detected in the vicinity of former No. 1 Relief Holder, the former separator, and the former No. 1 and No. 2 Oil Tanks.
- Six of the 14 shallow groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs. Where detected, total PAH concentrations ranged from 0.82 µg/L (MW-16A) to 36,627 µg/L (GW-1). The highest PAH concentrations were detected in the vicinity of former No. 1 Relief Holder, the former separator, and the former No. 1 and No. 2 Oil Tanks. Of the seventeen PAH compounds, only four PAHs (2-methylnaphthalene, acenaphthylene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene) were not detected in at least one shallow groundwater sample at concentrations above the AWQSGVs. Naphthalene was detected at the highest concentration in the sample collected from GW-1 (30,000 µg/L).
- Samples from eight of the 12 shallow monitoring wells, and the groundwater grab sample (GW-1), were analyzed for metals. The metals detected at concentrations above AWQSGVs most frequently include iron, magnesium, manganese, and sodium. These metals are not related to MGP operations.
- Samples from the twelve shallow monitoring wells, and the groundwater grab sample (GW-1), were analyzed for total cyanide. Total cyanide was detected in 8 of the 13 shallow groundwater samples and ranged in concentration from 12.1 µg/L (GW-1) to 408 µg/L (MW-4A). Total cyanide was detected at concentrations above the AWQSGV of 200 µg/L in two of the 13 samples at MW-4A and MW-7A.
- Four of the 12 shallow groundwater samples (including one duplicate sample) were analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in any of the four samples analyzed.
- Four of the 12 shallow groundwater samples (including one duplicate sample) were analyzed for pesticides and herbicides during the RI. Three pesticides (beta-BHC, 4,4'-DDD and 4,4'-DDE) were detected in both the primary and duplicate samples from MW-4A. Beta-BHC and 4,4'-DDE were detected above their AWQSGVs in both samples.

10.3.3.2 Intermediate Zone Wells

- Sixteen (16) intermediate monitoring wells were installed during the RI. Twelve (12) of the 15 intermediate groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs. Where detected, total BTEX concentrations ranged from 15 µg/L (MW-6B) to 33,200 µg/L (MW-5B). The highest BTEX concentrations in the intermediate groundwater zone were detected in the vicinity of the former separator and west of the former No. 1 and No. 2 Oil Tanks, and at MW-19B south of and downgradient of the Site along Rewe Street.
- Five of the 15 intermediate groundwater samples contained one or more chlorinated VOC (cVOC) compounds at concentrations above the AWQSGVs. The highest cVOC concentrations in the intermediate groundwater zone were detected in well MW-2B, which is located on the northern boundary of the Site by Maspeth Avenue. Chlorinated VOCs are not attributable to MGP operations.
- Seven of the 15 intermediate groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs. Where detected, total PAH concentrations ranged from 3.0 µg/L (MW-1B) to 10,056 µg/L (MW-5B). The highest PAH concentrations were detected in the vicinity of the former separator. Naphthalene was detected at the highest concentration in the sample collected from MW-5B (8,500 µg/L).
- A total of 10 intermediate well samples (including one duplicate sample) were analyzed for metals. Several metals were detected at concentrations above the AWQSGVs in intermediate groundwater. The metals detected at concentrations above AWQSGVs most frequently include iron, magnesium, and sodium. These metals are not related to MGP operations.
- All 15 samples from the intermediate monitoring wells (including two duplicate samples) were analyzed for total cyanide. Total cyanide was detected in 11 of the 15 intermediate groundwater samples and ranged in concentration from 11.4 µg/L (MW-2B) to 202 µg/L (MW-5B). Total cyanide was detected at a concentration slightly above the AWQSGV of 200 µg/L in only one sample: MW-5B at 202 µg/L.
- One of the 15 intermediate groundwater samples (MW-1B) was analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in this sample.
- One of the 15 intermediate groundwater samples (MW-1B) was analyzed for pesticides and herbicides during the RI. Pesticides and herbicides were not detected above the reporting limit in this sample.
- Given the trends observed in the data, it is likely that dissolved phase concentrations of these constituents will decrease further at locations outside of the RI Study area due to biodegradation, attenuation, and dilution.

10.3.3.3 Deep Zone Wells

- Twelve (12) deep monitoring wells were installed during the RI and generally screened above the top of the Gardiners Clay. Ten (10) of the 14 deep groundwater samples contained one or more of the BTEX compounds at concentrations above the AWQSGVs. Where detected, total BTEX concentrations ranged from 0.26 µg/L (MW-10C) to 14,870 µg/L (MW-3C). As illustrated on Figure 5-12, the highest BTEX concentrations in the deep groundwater zone were detected on-Site near the pumping well (PW-1 and MW-8C) and east of this area at MW-3C.

- Eleven (11) of the 12 deep groundwater samples contained one or more cVOC compounds at concentrations above the AWQSGVs. The highest cVOC concentrations in the deep groundwater zone were detected in wells MW-4C (located on the eastern boundary of the Site) and MW-16C (located off-Site on the eastern edge of the FedEx property). cVOCs were also detected at elevated levels in the former on-Site pumping well PW-1. Chlorinated VOCs are not attributable to MGP operations
- Eight of the 14 deep groundwater samples contained one or more of the PAH compounds at concentrations above the AWQSGVs. Where detected, total PAH concentrations ranged from 3.0 µg/L (MW-17C) to 3,883 µg/L (PW-1). The highest PAH concentrations in the deep groundwater zone were detected on-Site at or near the former pumping well (PW-1 and MW-8C) and at MW-3C and near the former No. 1 and No. 2 Oil Tanks.
- Ten deep well samples (including one duplicate sample) were analyzed for metals. Several metals were detected at concentrations above the AWQSGVs in deep groundwater, including iron, magnesium, manganese, and sodium. These metals are not related to MGP operations.
- All 14 samples from the deep monitoring wells (including one duplicate sample) were analyzed for total cyanide. Total cyanide was detected in nine of the 14 deep groundwater samples and ranged in concentration from 6.0 µg/L (MW-9C) [estimated] to 100 µg/L (MW-18C). Total cyanide was not detected in any of the deep groundwater samples at a concentration above the AWQSGV of 200 µg/L.
- Two of the 14 deep groundwater samples (MW-1C and MW-3C) were analyzed for PCBs during the RI. PCBs were not detected above the reporting limit in these samples.

Two of the 14 deep groundwater samples (MW-1C and MW-3C) were analyzed for pesticides and herbicides during the RI. Pesticides and herbicides were not detected above the reporting limit in these samples.

The dissolved-phase impacts are the result of a number of factors including geologic conditions, groundwater flow patterns and the presence of source material in soil. The source material in the RI Study Area may originate from a number of sources with similar characteristics. As a result, the dissolved phase impacts may be associated with commingled sources.

10.4 Soil Vapor and Indoor Air

Vapor intrusion sampling was conducted at four properties on/adjacent to the Site over five events in 2009, 2010 (two events), 2011, and 2015. Four rounds of samples were collected from 222 Maspeth Ave, two rounds were collected from 252 Maspeth Ave, and one round was collected from both 1 Rewe Street and 7-9 Rewe Street. At each location a pair of sub-slab vapor and indoor air samples was collected, along with one outdoor ambient air sample per event. The results were compared to published NYSDOH background concentrations.

At 222 Maspeth Ave, four rounds of vapor intrusion evaluation sampling were conducted. The samples were collected from the ground floor (locker room area) of the office structure. The initial two rounds of sampling showed that naphthalene was detected in the indoor air sample from the locker room above background concentrations. It was also detected in the sub-slab vapor samples during these events at concentrations higher than the indoor air sample. Based on the sampling results, it was concluded that the naphthalene may be migrating into the locker room from below the floor slab. Subsequently, potential pathways for sub-slab vapor migration into the locker room were identified, including a previously unknown gap around a sewer cleanout in the locker room floor and unknown

smaller gaps and cracks in the floor of the water meter pit and around conduits entering the water meter pit from the subsurface. These potential pathways were then sealed with cement/concrete and/or non-VOC caulk, and a third and fourth round of vapor intrusion sampling was conducted to verify the effectiveness of the remedial actions. The results of both sampling events showed that naphthalene concentrations detected in indoor air decreased to below background concentrations, indicating that the mitigation of potential pathways was successful.

At 252 Maspeth Ave, two rounds of vapor intrusion evaluation sampling were conducted. The samples were collected from the ground floor of the mechanics shop. In the sub-slab vapor sample, a number of compounds were detected above their NYSDOH background levels; however, in the paired indoor air sample, these compounds were either not detected or detected at a concentration below their NYSDOH background level. Hexane and ethanol were detected in indoor air at concentrations slightly above the NYSDOH background level. An inventory of products in the garage conducted prior to sampling revealed the presence of lacquer thinner, which may have been the source of the hexane detected in indoor air. Ethanol was neither detected in the sub-slab vapor sample nor is it associated with MGPs. After the first set of sampling results were evaluated, it was determined that the indoor air sample was collected during business hours on a week day while work was being conducted in the garage with one of the garage doors open. To ensure that results of the vapor intrusion evaluation were as accurate as possible, an additional round of sampling was conducted during the heating season, with all garage doors closed. No compounds were detected in the indoor air sample at a concentration above the NYSDOH background levels.

At 1 Rewe Street, one set of paired indoor air / sub-slab vapor samples was collected from the north end of the building and one pair from the south end. Only styrene was detected in both the indoor air samples at concentrations above the NYSDOH background level. However, the styrene concentrations in the indoor air samples from the north and south ends of the building were greater than in the paired sub-slab vapor samples. If the vapor intrusion pathway were the source of the styrene, it would be expected to be present in the sub-slab vapor samples at concentrations greater than in the indoor air samples. Styrene is used in many applications including containers, protective packaging, and electronics, which were observed within the building during the pre-sampling survey.

At 7-9 Rewe Street, one set of samples was collected from the north end of the building. Hexane, styrene, and PCE were also detected in the indoor air sample at concentrations above the NYSDOH background levels. However, the indoor air concentrations were higher than in the sub-slab vapor sample. If the vapor intrusion pathway were the source of these compounds, it is expected that concentrations of these compounds would be present in the sub-slab vapor sample at concentrations greater than those in the indoor air sample. In addition, PCE is not an MGP-related compound. The pre-sampling product inventory revealed the presence of multiple products, including adhesive spray, cleaners, diesel fluids, transmission fluids, motor/engine oils, and protective enamels which may be a source of volatile compounds in indoor air.

10.5 Potential Source Areas

Based on visible impacts and subsurface soil analytical results, environmental impacts are present in subsurface soil in the following depth intervals:

1. Within fill above the meadow mat
2. Within silts and sands above the discontinuous intermediate clay unit
3. Within silts and sands above the discontinuous lower clay unit

4. Within silts and sands above the Gardiners Clay, a regional confining unit

The vertical extent of these impacts has been delineated. The horizontal extent of subsurface soil visible impacts has also been delineated. The horizontal extent of subsurface soil analytical results above industrial use SCOs has generally been delineated. The data from the RI may not clearly identify a specific historic, or on-going, source of these impacts due to the fact that a number of industrial and manufacturing sources in the RI Study Area used feedstocks or managed products that have similar physical and/or chemical characteristics as those associated with the MGP process.

Based on Site history and RI findings, the No. 1 Relief Holder and adjacent structures on the 222 Maspeth Avenue parcel and the western edge of the 254 Maspeth Avenue parcel including the tar tank and settling tank, drip tanks, and separator were identified as the primary source areas for both NAPL and dissolved phase chemicals in the groundwater. A lesser amount of impacts were noted in the western portion of the 254 Maspeth Avenue parcel near the former No. 1 and No. 2 Oil Tanks. Releases of NAPL migrated vertically downward through the fill under density driven flow until it reached the former natural ground surface (meadow mat), where portions of it spread laterally to the north and east within or on top of the meadow mat surface.

Some of the NAPL released migrated vertically under density driven flow into the underlying more permeable glacial outwash sands, where it pooled on first confining unit (identified in this RI as the intermediate clay later) and spread laterally to the east and to a lesser extent to the north and south closely aligning with the topography of the top of the intermediate clay unit (from higher elevations to lower elevation areas). The intermediate clay unit pinches out under the 222 Maspeth Avenue parcel roughly mid-way beneath the former No. 1 Relief Holder (Figure 4-9) and is not present at borings advanced west of this area.

The absence of the confining intermediate clay allowed portions of the released NAPL to migrate vertically downward past the edge of the pinched out intermediate clay unit under density driven flow through the glacial outwash sands until it reached the next confining or semi-confining layer below the intermediate clay, which was identified in this RI and the lower clay lens. The lower clay lens is a discontinuous clay unit observed in a subset of borings beneath the 222, 252, and western portion of the 254 Maspeth Avenue parcels, and extending to the north onto the Greenpoint property and to the south beneath 1 Rewe Street and the western portion of 7-9 Rewe Street. NAPL collecting above this surface followed the topography of the surface (from higher to lower elevations) and was responsible for the presence of NAPL in the former dust suppression well (PW-1) located at the 222 Maspeth Avenue parcel. Similar to the intermediate clay unit, the lower clay lens is absent in the western portion of the 222 Maspeth Avenue parcel.

The absence of the lower clay lens beneath a portion of the former No. 1 Relief Holder allowed some of the released NAPL to migrate vertically downward past the edges of the pinched out intermediate clay and lower clay lenses to the top of the next confining unit below the lower clay lens, which was identified as the Gardiners Clay. The Gardiners Clay is a regional confining unit in the area. As the NAPL continued to migrate further from its source, the volume of the NAPL and the driving head of the NAPL decreased. As a result, the least amount of NAPL was observed at the top of the Gardiners Clay surface. Where present, NAPL presence aligned with the topography of the top of the Gardiners Clay surface. NAPL was observed in one boring southwest of former Relief Holder No. 1 (MW-1C) downslope from the holder area, one boring north of the holder (SB-27), and two borings east of the holder (SB-29 and SB-22). The deepest NAPL impacts were noted above the Gardiners Clay at 100 ft bgs (-81.5 ft NAVD88) at SB-27.

The majority of the released NAPL was observed above the intermediate clay unit, at typical depths of 45 to 50 ft bgs (elevation -30 to -35 ft NAVD88). This is evidenced by the number of wells above this surface that contained NAPL compared to the other vertical zones as well as the recoverability characteristics of the NAPL from these wells compared to NAPL removed from wells screened at shallower (above the meadow mat) or deeper zones (above the lower clay lens or above the Gardiners Clay). As such, NAPL recovery IRM efforts were focused on NAPL present above the intermediate clay unit. Data collected during the RI demonstrated that NAPL is contained within the RI Study Area.

10.6 Qualitative Human Health Exposure Assessment

The potential for human exposure to constituents present in impacted soils, groundwater, soil vapor, and indoor air was assessed by identifying the potential release and transport mechanisms for the COCs, point of exposure and exposure routes, and the receptors that could be exposed to COCs originating from the Site.

In surface soil, benzo(a)pyrene was the only constituent with concentrations above the Industrial Use SCOs; however, most of the surface soil has either been excavated or paved over. Two metals and seven PAHs were detected above the Industrial Use SCOs in subsurface soils between 1 to 15 ft bgs (the depth to which most intrusive construction activities would be undertaken). These included:

- Arsenic
- Mercury
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Chrysene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene
- Naphthalene

Constituents detected in shallow groundwater (from wells screened between 2.5 to 23 ft bgs), at concentrations above AWQSGVs include:

- BTEX
- Other VOCs (acetone, isopropylbenzene, methyl tert-butyl ether, styrene)
- PAHs (acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene)
- Other SVOCs (1,1'-biphenyl, 2,4-dimethylphenol, phenol)
- Pesticides (beta-BHC, 4,4'-DDE)
- Metals (antimony, arsenic, beryllium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium, total cyanide)

At the two buildings located on the Site at 222 and 252 Maspeth Avenue, various COCs were detected in sub-slab vapor and indoor air at concentrations above NYSDOH's background indoor air values. In the buildings off-Site at 1 and 7-9 Rewe Street, fewer COCs were detected in sub-slab vapor and indoor air above NYSDOH's background indoor air values.

The relevant receptors identified in the assessment included:

- Site indoor industrial workers
- Site outdoor industrial workers
- Site construction workers
- Site visitors and trespassers
- Off-Site commercial and industrial receptors
- Off-Site construction workers

Site indoor industrial workers may be exposed to volatile constituents present in the subsurface of the footprint of the buildings through the migration of impacted vapors to the indoor air of the building. However, potential migration pathways were sealed as part of after the March 2010 sampling. The subsequent indoor air samples showed that the pathway for naphthalene had been effectively addressed. Therefore, inhalation of MGP-derived volatile constituents in indoor air is not considered to be complete for Site industrial workers.

Direct contact exposure to constituents in soil and groundwater is not considered complete for Site outdoor industrial workers because the Site is mostly paved, and because Site industrial workers are not considered likely to conduct intrusive work at the Site and so are unlikely to directly contact soil and groundwater beneath the Site.

Similarly the off-Site is covered almost entirely with impermeable surfaces and large industrial or commercial buildings. Industrial and commercial receptors are considered unlikely to conduct intrusive work and therefore direct contact with constituents in soil and groundwater is considered unlikely.

The Site is covered almost entirely with impermeable surfaces and large industrial or commercial buildings therefore direct contact with the subsurface is unlikely for Site visitors and trespassers.

Outdoor construction workers (both on-Site and off-Site) may potentially be exposed to constituents in subsurface soils and groundwater through direct contact (dermal contact or incidental ingestion) or inhalation of particulates during intrusive construction activities.

For off-Site indoor air exposure, the two potential MGP-related constituents detected above the NYSDOH background indoor air values are not attributable soil vapor intrusion and exposure to indoor air is not considered for the off-Site commercial and industrial receptors.

Potential MGP-related constituents were detected in the ambient air samples collected at the Site. Given the paved nature of the Site and industrial nature of the area, exposure to this ambient air is not considered for the Site.

Finally, commercial and industrial properties in the vicinity of the Site obtain drinking water from municipal sources. Municipal sources in the area obtain water from up-state surface water and not

from local groundwater. Therefore, the potential for exposure to dissolved constituents in drinking water has not been considered further in this assessment as it is not considered likely to be a complete exposure pathway.

The significant potentially complete exposure pathways identified for both on-Site and off-Site areas were for construction workers for exposure to ambient air (dust), surface and subsurface soil (incidental ingestion and dermal contact) and groundwater (inhalation, incidental ingestion, and dermal contact).

10.7 Fish and Wildlife Resource Impacts Assessment

The Site was assessed against the FWRIA Decision Key (NYSDEC, 2010; DER-10, Appendix 3C) to determine if a FWRIA is required. Based on this evaluation no FWRIA is required. No fish or wildlife resources were observed on the industrial Site or surrounding properties. No environmental resources were identified in the vicinity of the Site using NYSDEC's Environmental Resource Mapper (Figure 8-1) with the exception of SD classified water bodies: Newtown Creek, Maspeth Creek, and the English Kills tributary of Newtown Creek. English Kills is located closest to the Site at a distance of 700 ft.

No potential means for on-Site or off-Site MGP-impacted media which is related to the Site to migrate to, erode into, or otherwise impact, any potential on-Site or off-Site environmental resources were identified. The MGP-impacted media is located beneath barriers (pavement, buildings, and other structures). In addition, the extent of NAPL has been delineated and is limited to on-Site and immediately adjacent off-Site areas and its migration is being limited by the NAPL recovery system.

10.8 Conclusions

The objectives of the RI have been fulfilled and the nature and general extent of environmental impacts at the RI Study Area have been adequately defined. In summary, the extent of NAPL is defined vertically and horizontally within the RI Study Area and does not extend beyond Rewe Street south of the Site towards the closest surface water body, English Kills. The extent of subsurface soil impacts are also generally delineated within these same areas. Dissolved phase groundwater impacts are characterized within the RI Study Area and are lower at downgradient wells compared to the Site. No PCBs were detected in groundwater from any of the wells sampled.

Conditions that would warrant additional IRMs were not observed following completion of the RI. Areas containing environmental impacts are covered by asphalt or developed property and therefore do not pose an immediate risk to receptors as the residuals are isolated from human contact. Potable water in the RI Study Area is provided by the City of New York.

11.0 Recommendations

Following approval of this report by the NYSDEC and NYSDOH, the next step in the process is completion of a Feasibility Study (FS) to evaluate remedial options at portions of the Site where No Further Action (NFA) conditions cannot be established.

In addition, the current Interim Site Management Plan should be maintained for the current property owner/occupant to ensure that potentially complete exposure pathways (e. g., construction worker exposures to soil and groundwater) are properly managed.

12.0 References

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Tables

Table 2-1
Summary of Documents
Former Equity Works MGP
Brooklyn, New York

Report Name	Report Date	Consultant	File Name
FedEx Ground Facility 300 Maspeth Ave, Brooklyn, NY Soil Boring Work Plan	7/10/2002	Testwell Laboratories	report.sp0202804.2006-03-24.pdf
FedEx Ground Facility 300 Maspeth Ave, Brooklyn, NY Soil Sampling Results	7/22/2002	Testwell Laboratories	report.sp0202804.2006-03-24.pdf
FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill #0202804	8/13/2002	Gannett Fleming	report.sp0202804.2006-03-24.pdf
FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	8/28/2002	Gannett Fleming	2002_08_28 300 Maspeth Gannett Fleming.pdf
FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804	10/23/2003	Gannett Fleming	report.sp0202804.2005-12-22.pdf
Site Investigation FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	6/8/2004	Gannett Fleming	2004_06_08 300 Maspeth Gannett Fleming Site Investigation.pdf
Phase II Environmental Subsurface Investigation Property Located at 254 Maspeth Avenue, Brooklyn, NY	10/26/2004	EEA Inc.	EEA40729 Phase II Report.pdf
Phase I Environmental Site Assessment - 254 Maspeth Avenue, Brooklyn, NY 11211	11/5/2004	Gannett Fleming	Phase I ESA 2004-11-05.pdf
Quarterly Groundwater Sampling FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	3/18/2005	Gannett Fleming	report.sp0202804.2005-12-22.pdf
1st Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	5/11/2005	Gannett Fleming	report.sp0202804.2005-12-22.pdf
Phase II Environmental Site Investigations - 252 Maspeth Avenue, Brooklyn, NY 11211	5/12/2005	Gannett Fleming	Phase II ESI 2005-05-12.pdf
2nd Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	6/30/2005	Gannett Fleming	report.sp0202804.2005-12-22.pdf
3rd Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report FedEx Ground 300 Maspeth Avenue, Brooklyn, NY 11211 NYSDEC Spill#0202804 and #0204002	10/24/2005	Gannett Fleming	report.sp0202804.2005-12-22.pdf
NYSDEC Spill Closure Letter - Spill #0202804 and #0204002 300 Maspeth Avenue, Brooklyn, NY	12/22/2005	NYSDEC to FedEx	letter.sp0202804.2005-12-22.NFA.pdf
Well Abandonment FedEx Ground 300 Maspeth Avenue, Brooklyn, New York 11211 NYSDEC Spill #0220804 and #0204002	3/24/2006	Gannett Fleming	2006_03_24 300 Maspeth Gannett Fleming Well Abandonment.pdf
Remedial Investigation Work Plan - Equity Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	7/28/2009	AECOM	Equity RI Work Plan 072809.pdf
Cooper Tank & Welding Corp. (Cooper Tank) Proposed Treatment of Non-Potable Well Water, Brooklyn, NY	3/8/2010	Gannett Fleming	Cooper Tank and Welding Proposed Treatment of Non Potable Well 2010 03 08 v2.pdf
Remedial Investigation Work Plan Addendum (No. 1) Equity Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	8/17/2011	AECOM	FINAL RI Add No1 Aug 16-11.pdf

Table 2-1
Summary of Documents
Former Equity Works MGP
Brooklyn, New York

Report Name	Report Date	Consultant	File Name
Pre-Design Investigation Work Plan - 254 Maspeth Avenue Property Former Equity MGP Site, Brooklyn, NY NYSDEC Site No. 224050	7/25/2011	AECOM	Equity PDI Work Plan.pdf
Pre-Design Investigation Work Plan No. 2 Addendum - 252 and 254 Maspeth Avenue Property Potential Barrier Wall Area Design Equity Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	8/6/2012	AECOM	Equity PDI Work Plan No. 2_Possible Barrier Wall Areas_Addendum_ver3.pdf
Remedial Investigation Work Plan Addendum (No. 2) Equity Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	4/19/2012	AECOM	FINAL Equity RIWP Addendum_No 2_04-19-12.pdf
Interim Remedial Measure Work Plan for Product Recovery - Former Equity Works MGP Site, Brooklyn, NY NYSDEC No. 224050.	1/31/2013	AECOM	Equity Product Recovery IRM 013113a.pdf
Remedial Investigation Work Plan Addendum (No. 2) Modification Equity Works Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	5/24/2013	AECOM	Equity RIWP Addendum (No. 2) Modification 05-24-13.pdf
Remedial Investigation Work Plan Addendum (No. 3) Equity Works Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	8/14/2013	AECOM	Equity RIWP Addendum (No 3)_final.pdf
Prepardness and Contingency Plan Iterim Remedial Measure Product Recovery System - Former Equity Works MGP Site, Brooklyn, NY NYSDEC Site No. 224050	6/20/2014	AECOM	Equity IRM Prepardness and Contingency Plan 062014.pdf
Remedial Investigation Work Plan Addendum (No. 4) Equity Works Former MGP Site, Brooklyn, NY NYSDEC Site No. 224050	2/4/2015	AECOM	Equity RIWP Addendum (No 4) Final.pdf
Equity Former MGP - Summary of Quarterly Monitoring Well Inspection (2nd Quarter 2015, initial event) at FedEx Property located at 300 Maspeth Avenue, Brooklyn, New York	7/29/2015	AECOM	Equity - 2Q 2015 well inspection for 300 Maspeth.pdf
Equity Former MGP - Summary of Quarterly Monitoring Well Inspection (3rd Quarter 2015) at FedEx Property located at 300 Maspeth Avenue, Brooklyn, New York	9/17/2015	AECOM	3Q 2015 - 300 Maspeth Monitoring Memo.pdf
Equity Former MGP - Summary of Quarterly Monitoring Well Inspection (4th Quarter 2015) at FedEx Property located at 300 Maspeth Avenue, Brooklyn, New York	11/30/2015	AECOM	FedEx Q4 2015 Quarterly Well Inspection.pdf

Table 2-2
Summary of Historic Use, Properties/Areas Adjacent to the Former Equity Works MGP Site
Former Equity Works MGP Site
Brooklyn, New York

Site	Date	Description	Source
Eastern Abutter			
300 Maspeth Block 2927, Lot 168	1954	Property is cleared and appears vegetated	Aerial
	1966, 1975, 1984, 1994 and 2006	Parking area for trucks, beyond which appears to the a shipping and/or receiving area. Multiple tanks remain on-site, many with leak detection or secondary containment	Aerial EDR Report
Northern Abutter across Maspeth			
285 -287 Maspeth Ave. Greenpoint MGP/Energy Center Block 2837 Lot 1	prior to 1951	Former MGP, with by-product and coking plant operated at the site from 1928 to 1951	EDR Report
	1954, 1966 and 1975	Beyond Maspeth are two MGP plant Tanks and cleared area around the two tanks	
	1964 and 1994	Beyond Maspeth is a baseball field and two MGP plant tanks and MGP plant structures	Aerial
	2001	Gas holders removed	EDR
	2006	Beyond Maspeth is a baseball field and foundations of two former MGP plant tanks and former MGP plant structures. Active PCB facility (tankage >1,100 gal) in 1997. Currently a large quantity generator of RCRA "D', "F", and "U" wastes	Aerial
Southern Abutter			
Southern Abutter Block 2927 Lots 42, 125	1888	Undeveloped	Sanborn
	1907	Only southern portion of site is developed with "J.A. Crombie Co Storage" and "Joseph A Solan saw and planning mill"	Sanborn
	1933	Entire property labeled "Chapman Dock Co" and there is a small road dividing the property. There are small offices and storage structures near what is now Rewe St.	Sanborn
	1951	Still Chapman Dock Co with structures at the southern portion for offices and building material storage	Sanborn
	1965-1981	Southern building identified as Salwen Paper Co. , but southeastern building is labeled "Lack Carpet Co."	Sanborn
	1986-1990	Southern building is still identified as Salwen Paper Co. building, but southeastern building is labeled "Boro recycling"	Sanborn
	1991-1995	Southern building is still identified as Salwen Paper Co., and southeastern building as "shipping"	Sanborn
Western Abutter			
214 Maspeth Ave. Block 2927 Lot 42	1954	Cleared property, beyond which is Vandervoort Ave.	EDR
	1966, 1975, 1984, and 1994	Cleared property that appears to be used as truck parking or a shipping/receiving area	EDR
	2006	Portion of a building that is attached to the southern abutting industrial building (Block 2927, Lot 42)	EDR Report
Block 2090, Lot 30	1888	undeveloped	Sanborn
	1907	Property beyond Vandervoort is labeled "Standard Rope and Twine Co"	Sanborn
	1933	Property is labeled "Lignum Chemical Works", apparently a sawdust processing and storage facility.	Sanborn
	1951	Property appears to used for sawdust processing/storage and metal scrapping	Sanborn
	1965-1995	Part of the property (along Maspeth Ave) continues to be used for metal scrapping, use of the remaining portions are not specified.	Sanborn

Table 2-3
Summary of Environmental Database Search Records, Properties/Areas Adjacent to the Former Equity Works MGP Site
Former Equity Works MGP Site
Brooklyn, New York

Location	Event	Source	
Western Intersection			
Maspeth Ave and Vandervoort Ave	Nov 1998 - Hazmat was called to unknown material on water in the street. The report estimates 60-gallons (assumed organic and water)	EDR Report	NY Spill
	May 2007 - Oil (approx. 5 oz.) was observed coming out of soil in a utility excavation. Subsequently, oil (approx. 1 pint) was observed on water within a utility trench located approx. 100 ft. from the prior observation.	EDR Report	NY Spill
	May 2007 - One pint of oil (unknown petroleum) in trench on 10 gallons of water	EDR Report	NY Spill
	Aug. 2007 - Sheen of unknown petroleum (approx. 1.5 gal) was observed on water (approx. 20 gal) in the bottom of an excavation.	EDR Report	NY Spill
Eastern Abutter			
Federal Express Ex (300 Maspeth)	July 2002 - Tank failure reported	EDR Report	Ltank
	2002- Removal of 20 550-gal gasoline USTs and surrounding soil (900 tons) from site and adjacent property (not identified) in 2002. N Black stained soil with strong petroleum odor observed "adjacent to the southwestern portion of the existing warehouse (not specifically identified)". NFA granted end of 2005/early 2006.	EDR Report	NY Spill
Northern Abutter across			
Brooklyn Union Gate Station - 285 Maspeth Ave.	1981- Liquid Condensate in pipeline found to contain PCB, All "batches" were tested, with off-site disposal	EDR Report	CERC-NFRAP
	Nov. 2003 - Fuel oil spill (1-3 gallons) addressed by in-house staff.	EDR Report	NY Spill
Greenpoint MGP - Energy Center - 287 Maspeth Ave	Nov. 1990 - Gasoline tank (4,000 gal) failed routine leak test (no determined leak rate). Excavated and repaired.	EDR Report	Ltank
	Jan. 1993 - Underground storage tank failed a routing "tightness" test. Vent connections (above level of product) were repaired.	EDR Report	Ltank
	Aug. 1996 - Diesel spill (10 gal) overfill of tank. Remediated		
	March 1998 - Gasoline spill (5 gal), leaking drum. Soil remediated		
	July 2001- Lead base paint debris cleanup from demolition of gas holders	EDR Report	NY Spill
	Sept. 2001- Diesel spill (200 gal), faulty valve on truck. Remediated by contractor and closed.	EDR Report	
	June 2004 - Preliminary site investigation report indicated shallow (0-5 ft. bgs) MGP impacts that were addressed in an Interim Remedial Action. Site impacts were not delineated.	EDR Report	SHWS
Maspeth Avenue	Aug. 2005 - Fuel oil (25 gal) observed in street, cleaned up by sanitation department.	EDR Report	NY Spill
Southern Abutter			
Sigagel Associates 1 Rewe St.	Nov 1996 - Fuel oil (#2) spill from poor housekeeping. UST and soil removed. Closure granted Feb 1998.	EDR Report	NY Spill

Table 2-4
Summary of Historic Use, Former Equity Works MGP Site (222, 252, and 254 Maspeth Avenue, Brooklyn, NY)
Former Equity Works MGP Site
Brooklyn, New York

Date	Description	Source
1880	Site is undeveloped.	Atlas
1886	Site possibly shows a couple features. Unable to distinguish what they are.	Atlas
1888	Site is undeveloped.	Sanborn
1894	Map provides block idendifications. No development features provided.	Atlas
1896	Appears to show Holder No. 1 and Purifier house structure present. Identified as Equity Gas Works.	Atlas DOH
1898	Shows Holder No. 1 AND purifier house structure. Idenfied as Gas Works. Appears to show coal house and oil storage features for No. 1, No. 2, and No. 3 tanks.	Atlas
1903	MGP structures developed, including gas storage holder, relief holder, generator house, purifiers, oil house, and creek	BUG 1903 facility plan
1905	Same as 1903 plan, except relief holder converted to tar tank, drip tank added, oil storage tank added, boiler room expansion	BUG 1905 facility plan
1907	MGP structures include a generator house, purifier house, coal shed, gas holder, tar tank, and oil bunker, coal shed, coad run boiler house, oil storage tanks No. 1, No. 2, and No. 3, sheds, and exhausters.	Sanborn
1915	Holder location details. One holder available with three lifts. One holder in use 1914 and 1915. 430 M.cu.ft, open, tank made of brick, three lifts, foundation was concrete, Laurel Iron Works (builder), built in 1893.	BUG holder details for all sites.
1916	MGP structures include Holder No. 1, relief holder, exhausters, purifier house, coal shed, boilder house, oil storage No. 1 and No. 2 and No. 3	Atlas
1921	Appears to show maximum extent of MGP expansion, all major plant structures and supporting structures shown	BUG 1921 facility plan
1924	MGP structures include Holder No. 1, relief holder, exhausters, purifier house, coal shed, boilder house, oil storage No. 1 and No. 2 and No. 3	Arial
1929	MGP structures (Brooklyn Union Gas Co) include Holder No. 1, relief holder, pump house exhausters, purifier house, sheds, tar tank, coal shed, coal run, boilder house, oil storage No. 1, No. 2, and No. 3.	Atlas
1932	Many MGP structures still present, although holder listed as disconnected and purged, standards removed, and tank partially filled. Creek still present. Six-inch pipe labelled "salt water" shown northwest of holder near Maspeth Avenue (possible well).	BUG 1932 facility plan
1933	The coal shed, gas holder, tar tank and oil bunker are no longer evident and the buildings (generator/purifier houses) are "vacant"	Sanborn
1947	No features/structures present.	Topographic Map, EDR
1951	The site is still listed as owned by Brooklyn Union Gas, but no structures are evident	BUG facility plan
1951	The site listed as sold on September 17, 1951 (handwritten on 1932 BUG facilty plan).	Sanborn
1954	Appears to have storage structures present. No MGP structures.	Aerial, EDR
1956	No features/structures present.	Topographic Map, EDR
1965-1981	No owner listed, storage of used pipe and valves is indicated - three metal clad on wood frame buildings onsite	Sanborn
1966	Appears similar to 1954 Aerial, EDR photograph.	Aerial, EDR
1967	Features/structures present (non MGP related).	Topographic Map, EDR
1975	Appears similar to 1966 Aerial, EDR photograph.	Aerial, EDR
1979	Features/structures present (non MGP related).	Topographic Map, EDR
1984	Appears similar to 1975 Aerial, EDR photograph.	Aerial, EDR
1986-1988	The site appears to be vacant. However, NYC records indicate certificates of occupancy for construction debris transfer activities. Records indicate ownership of separate parcels by Fontana Transfer and Cooper Tank and Welding.	Sanborn
1990-1995	Property labeled as "Garbage Transfer Storage", there is a small one story iron building	Sanborn
1994	Appears similar to 1984 Aerial, EDR photograph.	Aerial, EDR
1995	Features/structures present (non MGP related).	Topographic Map, EDR
2006	Site appears to be in use, similar configuration as 1995. A permitted above ground storage tank (275 gal) for used oil appears to have been in use during the period of 2000 to 2005. Operational as Cooper Tank Recycling to present day.	Aerial, EDR

Table 3-1
Surface Soil, Subsurface Soil, and Groundwater Investigation Sample Summary
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Sample Identification	Date Collected	Sample Interval (ft bgs)	Total Depth (ft bgs)	Laboratory Analyses	Sample Location was Excavated?
Surface Soil						
SS-02	SS-2-092809*	9/28/2009	0 to 2 in.	2 inches	TCL VOCs, TCL SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
SS-03	SS-3-092209	9/22/2009	0 to 2 in.	2 inches	TCL VOCs, TCL SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
SS-04	SS-4-092309	9/23/2009	0 to 2 in.	2 inches	TCL VOCs, TCL SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
SS-05	SS-5-092509	9/25/2009	0 to 2 in.	2 inches	TCL VOCs, TCL SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
Subsurface Soil						
Remedial Investigation						
SB-01C	SB-1(5)102009	10/20/2009	5 to 5	100	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-1C(23-25)111809	11/18/2009	23 to 25			
	SB-1C(80-81.5)112009*	11/20/2009	80 to 81.5			
	SB-1C(98-100)112309	11/23/2009	98 to 100			
SB-02B	SB-2B(5)101309	10/13/2009	5 to 5	52	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-2B(14-16)101409	10/14/2009	14 to 16			
	SB-2B(37-38)101409	10/14/2009	37 to 38			
	SB-2B(42-44)101409	10/14/2009	42 to 44			
SB-03B	SB-3(4-5)092809	9/28/2009	4 to 5	48	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
	SB-3(36-38)102009	10/20/2009	36 to 38			
	SB-3(46-48)102109	10/21/2009	46 to 48			
SB-04	SB-4(1-2)092409	9/24/2009	1 to 2	5	VOCs, SVOCs, TAL Metals, Free CN, & PCBs (as Aroclors)	yes
SB-04C	SB-4(36-38)100709	10/7/2009	36 to 38	87	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-4(44-46)100809	10/8/2009	44 to 46			
SB-05B	SB-5(16-18)092809	9/28/2009	16 to 18	58	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
	SB-5(28-30)092809	9/28/2009	28 to 30			
	SB-5(52-54)092809	9/28/2009	52 to 54			
SB-06B	SB-6(6)101409	10/14/2009	6 to 6	55	VOCs, SVOCs, TAL Metals, and Free CN. Upper 5 feet: PCBs (as Aroclors). Depth 16-18 ft: Petroleum fingerprinting	
	SB-6(16-18)102109	10/21/2009	16 to 18			
	SB-6(26-28)102109	10/21/2009	26 to 28			
	SB-6(30-32)102109	10/21/2009	30 to 32			
SB-07A	SB-7(6-8)100509	10/5/2009	6 to 8	8.17	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	yes
SB-07B	SB-7(38-40)102709	10/27/2009	38 to 40	46	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
	SB-7(44-46)102709	10/27/2009	44 to 46			
SB-08	SB-8(2-3)092709	9/27/2009	2 to 3	26.1	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
	SB-8(24-26)101809	10/18/2009	24 to 26			
SB-09	SB-9(4-5)092709	9/27/2009	4 to 5	50	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-9(20-21.5)092709	9/27/2009	20 to 21.5			
	SB-9(36-38)092709	9/27/2009	36 to 38			
	SB-9(40-42)092709	9/27/2009	40 to 42			
SB-10	SB-10(3-4)092709	9/27/2009	3 to 4	48	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-10(16-18)092509	9/25/2009	16 to 18			
	SB-10(40-41.5)100709	9/28/2009	40 to 41.5			
	SB-10(48-50)092709	9/27/2009	48 to 50			
SB-11	SB-11(16-18)100609	10/6/2009	16 to 18	64	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-11(32-32.5)100609	10/6/2009	32 to 32.5			
	SB-11(54-56)100609	10/6/2009	54 to 56			

Notes:

* Field duplicate sample collected at this location
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
CN - cyanide
PCBs - polychlorinated biphenyls
DRO - Diesel Range Organics
GRO - Gasoline Range Organics
TPH - Total Petroleum Hydrocarbons
TCL - Target Compound List
RCRA - Resource Conservation and Recovery Act
TAL - Target Analyte List
TCLP - Toxicity Characteristic Leaching Procedure
BTEX - benzene, toluene, ethylbenzen, and xylenes
PAHs - polycyclic aromatic hydrocarbons
As - arsenic
Pb - lead
Hg - mercury

Table 3-1
Surface Soil, Subsurface Soil, and Groundwater Investigation Sample Summary
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Sample Identification	Date Collected	Sample Interval (ft bgs)	Total Depth (ft bgs)	Laboratory Analyses	Sample Location was Excavated?
Subsurface Soil						
Remedial Investigation (continued)						
SB-12A	SB-12(4-5)092509	9/25/2009	4 to 5	12.2	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	yes
	SB-12(10-12.2)100109	10/1/2009	10 to 12.2			
SB-12B	SB-12B(40-42)110309	11/3/2009	40 to 42	54	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-12B(48-50)110309	11/3/2009	48 to 50			
SB-13	SB-13(0-1)092709	9/27/2009	0 to 1	25.5	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-13(12-14)092809	9/28/2009	12 to 14			
	SB-13(18-24)092709	9/27/2009	18 to 24			
SB-14A	SB-14(1-2)092709	9/27/2009	1 to 2	5.5	VOCs, SVOCs, TAL Metals, and Free CN, PCBs (as Aroclors)	
SB-14B	SB-14B(11-13)092709	9/27/2009	11 to 13	56	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-14B(20-22)101709	10/17/2009	20 to 22			
	SB-14B(38-40)101709	10/17/2009	38 to 40			
	SB-14B(54-56)101709	10/17/2009	54 to 56			
SB-15	SB-15(3-4)092309	9/23/2009	3 to 4	54	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-15(12-14)093009	9/30/2009	12 to 14			
	SB-15(38-40)093009	9/30/2009	38 to 40			
	SB-15(42-44)093009	9/30/2009	42 to 44			
SB-16A	SB-16(2-3)092409	9/24/2009	2 to 3	15.5	VOCs, SVOCs, TAL Metals, and Free CN, PCBs (as Aroclors)	
SB-16B	SB-16B(30-32)101909	10/19/2009	30 to 32	54	VOCs, SVOCs, TAL Metals, and Free CN	
	SB-16B(44-46)101909	10/19/2009	44 to 46			
SB-17	SB-17(1-2)092509	9/25/2009	1 to 2	50	VOCs, SVOCs, TAL Metals, Free CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
	SB-17(16-18)102209	10/22/2009	16 to 18			
	SB-17(36-38)102209	10/22/2009	36 to 38			
	SB-17(40-42)102209	10/22/2009	40 to 42			
SB-18	SB-18(4-5)092509	9/25/2009	4 to 5	52	VOCs, SVOCs, TAL Metals, and Free CN Upper 5 feet: PCBs (as Aroclors)	
	SB-18(12-14)100109	10/1/2009	12 to 14			
	SB-18(38-40)100209	10/2/2009	38 to 40			
	SB-18(42-44)100209	10/2/2009	42 to 44			
TP-01	TP-1(9)100809	10/8/2009	9 to 9	13.9	VOCs, SVOCs, TAL Metals, and Free CN	
	TP-1(12)100809*	10/8/2009	12 to 12			
TP-02	TP-2(8.5)100609	10/6/2009	8.5 to 8.5	8.5	VOCs, SVOCs, TAL Metals, and Free CN	
TP-03	TP-3(7.0)100709*	10/7/2009	7 to 7	7.5	VOCs, SVOCs, TAL Metals, and Free CN	
	TP-3(7.5)100709	10/7/2009	7.5 to 7.5			
Remedial Investigation Addendum No. 1						
SB-16C	SB-16C(92.5-95)102211	10/22/2011	92.5 to 95	105	BTEX & Styrene, PAHs, RCRA 8 Metals, and Free CN	
	SB-16C(102.5-105)102211	10/22/2011	102.5 to 105			
SB-19	SB-19(2-5)103011	10/30/2011	2 to 5	100	BTEX & Styrene, PAHs, RCRA 8 Metals, and Free CN	
	SB-19(70-75)110611	11/6/2011	70 to 75			
	SB-19(85-87.5)110611	11/6/2011	85 to 87.5			
SB-20	SB-20(1-2)092411	9/24/2011	1 to 2	110	BTEX & Styrene, PAHs, Metals (As, Pb, Hg), and Total CN	
	SB-20(72.5-75)092511	9/25/2011	72.5 to 75			
	SB-20(108-110)092511	9/25/2011	108 to 110			
SB-21	SB-21(0-5)092211	9/22/2011	0 to 5	110	BTEX & Styrene, PAHs, Metals (As, Pb, Hg), and Total CN	
SB-22	SB-22(0-5)091911	9/19/2011	0 to 5	110	BTEX & Styrene, PAHs, RCRA 8 Metals, and Free CN. Upper 5 ft: Metals (As, Pb, Hg only) and Total CN	yes
	SB-22 (84-85)	10/20/2011	84 to 85			
	SB-22 (107.5-110)	10/20/2011	107.5 to 110			
SB-23	SB-23(89-90)092711	9/27/2011	89 to 90	100	BTEX & Styrene, PAHs, Metals (As, Pb, Hg), and Total CN	
	SB-23(90-92.5)092711	9/27/2011	90 to 92.5			
SB-24	SB-24(98.5-99)102511	10/25/2011	98.5 to 99	110	BTEX & Styrene, PAHs, RCRA 8 Metals, and Free CN	
	SB-24(108-110)102511	10/25/2011	108 to 110			

Notes:

* Field duplicate sample collected at this location
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
CN - cyanide
PCBs - polychlorinated biphenyls
DRO - Diesel Range Organics
GRO - Gasoline Range Organics
TPH - Total Petroleum Hydrocarbons
TCL - Target Compound List
RCRA - Resource Conservation and Recovery Act
TAL - Target Analyte List
TCLP - Toxicity Characteristic Leaching Procedure
BTEX - benzene, toluene, ethylbenzen, and xylenes
PAHs - polycyclic aromatic hydrocarbons
As - arsenic
Pb - lead
Hg - mercury

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Former Equity Works MGP Site
Brooklyn, New York

Location ID	Sample Identification	Date Collected	Sample Interval (ft bgs)	Total Depth (ft bgs)	Laboratory Analyses	Sample Location was Excavated?
Subsurface Soil						
Remedial Investigation Addendum No. 1 (continued)						
SB-29	SB-29(0-5)092311	9/23/2011	0 to 5	105	BTEX & Styrene, PAHs, Metals (As, Pb, Hg), and Total CN	
	SB-29(98)092311	9/23/2011	98 to 98			
	SB-29(98-100)092311	9/23/2011	98 to 100			
SB-30	SB-30(3-5)102311	10/23/2011	3 to 5	95	BTEX & Styrene, PAHs, RCRA 8 Metals, and Free CN	
	SB-30(78-79)102911*	10/29/2011	78 to 79			
	SB-30(92-94)102911	10/29/2011	92 to 94			
TP-04	TP-4(3-4)	9/9/2011	3 to 4	7	VOCs, SVOCs, TAL Metals, WAD CN	yes
	TP-4(7-7.5)	9/9/2011	7 to 7.5			yes
Pre-Design Investigation for Shallow Soil Removal						
TP-2B	TP-2B-1 (7-7.5)	9/9/2011	7 to 7.5	7.5	SVOCs, TAL Metals, DRO/GRO	yes
	TP-2B-2 (7-7.5)	9/9/2011	7 to 7.5			yes
TP-08	TP-8(6.4-6.7)	9/1/2011	6.4 to 6.7	7	VOCs, SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), DRO/GRO. Waste analyses: TCLP for VOCs, SVOCs, Metals, Pesticides, and Herbicides; Reactivity (Cyanide and Sulfide); Total Sulfide	yes
TP-11	TP-11 (6-6.63)	9/8/2011	6 to 6.63	7.33	DRO, GRO	yes
TP-12	TP-12(4-5)	9/7/2011	4 to 5	5	VOCs, SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), DRO/GRO Waste analyses: TCLP for VOCs, SVOCs, Metals, Pesticides, and Herbicides; Reactivity (Cyanide and Sulfide); Total Sulfide	yes
TP-12A	TP-12A (4-5)	9/8/2011	4 to 5	5	VOCs, SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), DRO/GRO Waste analyses: TCLP for VOCs, SVOCs, Metals, Pesticides, and Herbicides; Reactivity (Cyanide and Sulfide); Total Sulfide	yes
TP-13	TP-13 (5.5-6)	9/2/2011	5.5 to 6	6.16	DRO, GRO	yes
TP-15A	TP-15A(6.5-6.83)	9/7/2011	6.5 to 6.83	6	DRO, GRO	yes
TP-16	TP-16 (5-6)	9/2/2011	5 to 6	8	VOCs, SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), DRO/GRO Waste analyses: TCLP for VOCs, SVOCs, Metals, Pesticides, and Herbicides; Reactivity (Cyanide and Sulfide); Total Sulfide	yes
TP-17	TP-17(6-6.67)	9/7/2011	6 to 6.67	6.66	VOCs, SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), DRO/GRO Waste analyses: TCLP for VOCs, SVOCs, Metals, Pesticides, and Herbicides; Reactivity (Cyanide and Sulfide); Total Sulfide	yes
Remedial Investigation Addendum No. 2						
SB-25	SB-25 (92-93)072412	7/24/2012	92 to 93	110	VOCs, SVOCs	
	SB-25 (103-105)072412	7/24/2012	103 to 105			
SB-26	SB-26 (75-80)072512	7/25/2012	75 to 80	105	VOCs, SVOCs	
	SB-26 (88-90)072612	7/26/2012	88 to 90			
SB-27	SB-27 (80-85)	1/11/2013	80 to 85	100	VOCs, SVOCs	
	SB-27 (90-92)	1/11/2013	90 to 92			
SB-28	SB-28 (33-35)	1/10/2013	33 to 35	100	VOCs, SVOCs	
	SB-28 (65-66)	1/10/2013	65 to 66			
SB-31	SB-31 (33-35)071412	7/14/2012	33 to 35	100	VOCs, SVOCs	
	SB-31 (38-40)071412	7/14/2012	38 to 40			
SB-32	SB-32 (64-66)	1/8/2013	64 to 66	100	VOCs, SVOCs	

Notes:

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VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
CN - cyanide
PCBs - polychlorinated biphenyls
DRO - Diesel Range Organics
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BTEX - benzene, toluene, ethylbenzen, and xylenes
PAHs - polycyclic aromatic hydrocarbons
As - arsenic
Pb - lead
Hg - mercury

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Former Equity Works MGP Site
Brooklyn, New York

Location ID	Sample Identification	Date Collected	Sample Interval (ft bgs)	Total Depth (ft bgs)	Laboratory Analyses	Sample Location was Excavated?
Subsurface Soil						
Remedial Investigation Addendum No. 2 (continued)						
SB-33	SB-33 (35-36)	1/15/2013	35 to 36	100	VOCs, SVOCs	
	SB-33 (50-54)	1/15/2013	50 to 54			
SB-34	SB-34 (35-36)*	1/21/2013	35 to 36	100	VOCs, SVOCs	
	SB-34 (97-98)	1/21/2013	97 to 98			
SB-35	SB-35 (35-36)	1/22/2013	35 to 36	50	VOCs, SVOCs	
	SB-35 (44-45)	1/22/2013	44 to 45			
Remedial Investigation Addendum No. 3						
T1-SB7	T1-SB7 (16.5-17.5)	5/21/2014	16.5 to 17.5	25	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), TPH	
	T1-SB7 (22-23)	5/21/2014	22 to 23			
T1-SB8	T1-SB8 (17-18.5)	5/21/2014	17 to 18.5	25	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), TPH	
	T1-SB8 (23-24)	5/21/2014	23 to 24			
T1-SB9	T1-SB9 (15-18)	5/21/2014	15 to 18	25	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), TPH	
	T1-SB9 (18-20)*	5/21/2014	18 to 20			
T2-SB1	T2-SB1 (15-20)	5/20/2014	15 to 20	25	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), TPH	
	T2-SB1 (21-22)	5/20/2014	21 to 22			
T2-SB4	T2-SB4 (5-10)	5/20/2014	5 to 10	25	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), TPH	
T5-SB2	T5-SB2(18-19)101514	10/15/2014	18 to 19	30	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), DRO/GRO	
	T5-SB2(21.5-25)101514	10/15/2014	21.5 to 25			
T5-SB7	T5-SB7 (10-11)101314	10/13/2014	10 to 11	30	VOCs, SVOCs, TAL Metals, PCBs (as Aroclors), DRO/GRO. Depth 10-11' fingerprinting.	
	T5-SB7 (11.5-15)101314	10/13/2014	11.5 to 15			
Remedial Investigation Addendum No. 4						
SB-40	SB40 (9-10)_460-92568-1	4/1/2015	9 to 10	55	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB40 (20-23.5)_460-92568-2	4/1/2015	20 to 23.5			
	SB40 (50-55)_460-92568-3	4/1/2015	50 to 55			
SB-41	SB41 (5-10)_460-92568-4	3/31/2015	5 to 10	45	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB41 (35-37)_460-92568-5	4/1/2015	35 to 37			
	SB41 (38-39)_460-92568-6	4/1/2015	38 to 39			
SB-42	SB42(9-10)_460-92511-1	3/30/2015	9 to 10	50	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB42(35-37.5)_460-92511-2	3/30/2015	35 to 37.5			
	SB42(49-50)_460-92511-3	3/30/2015	49 to 50			
SB-43	SB43 (8-9)_460-92355-1	3/26/2015	8 to 9	50	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB43 (45-48)_460-92355-2*	3/26/2015	45 to 48			
	SB43 (49-50)_460-92355-3	3/26/2015	49 to 50			
SB-44	SB44 (9-10)_460-92355-5	3/27/2015	9 to 10	50	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB44 (38-40)_460-92355-6	3/27/2015	38 to 40			
	SB44 (49-50)_460-92355-7	3/27/2015	49 to 50			
SB-45	SB-45 (10-11)_460-94062-1	4/29/2015	10 to 11	55	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB-45 (18-20)_460-94062-2	4/29/2015	18 to 20			
	SB-45 (45-48)_460-94062-4	4/29/2015	45 to 48			
	SB-45 (50-55)_460-94062-3	4/29/2015	50 to 55			
SB-46	SB-46 (11-15)_460-94148-5	5/1/2015	11 to 15	50	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB-46 (40-43)_460-94148-7	5/1/2015	40 to 43			
	SB-46 (45-50)_460-94148-6	5/1/2015	45 to 50			
SB-47	SB-47 (10-14)_460-94148-1	4/30/2015	10 to 14	50	VOCs, SVOCs, TAL Metals, DRO/GRO	
	SB-47 (17-19)_460-94148-2	4/30/2015	17 to 19			
	SB-47 (45-50)_460-94148-3*	4/30/2015	45 to 50			

Notes:

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VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
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PCBs - polychlorinated biphenyls
DRO - Diesel Range Organics
GRO - Gasoline Range Organics
TPH - Total Petroleum Hydrocarbons
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Former Equity Works MGP Site
Brooklyn, New York

Location ID	Sample Identification	Date Collected	Sample Interval (ft bgs)	Total Depth (ft bgs)	Laboratory Analyses	Sample Location was Excavated?
Groundwater						
GW-01	GW-1-092709	9/27/2009	5 to 15	15	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
PW-01	PW1-121609	12/16/2009	63 to 78	78	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
MW-01A	MW1A-121409	12/14/2009	5 to 15	15	TCL VOCs, TCL SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
MW-01B	MW1B-121409	12/14/2009	30 to 40	40		
MW-01C	MW1C-121409	12/14/2009	70 to 80	81		
MW-02A	MW2A-121609	12/16/2009	5 to 15	17	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
MW-02B	MW2B-121609	12/16/2009	30 to 40	42		
MW-03A	MW3A-121509	12/15/2009	5 to 15	17	TCL VOCs, TCL SVOCs, TAL Metals, Total CN, PCBs (as Aroclors), TCL Pesticides & Herbicides	
MW-03C	MW3C-121509	12/15/2009	30 to 40	42		
MW-04A	MW4A-121609*	12/16/2009	67 to 77	79	TCL VOCs, TCL SVOCs, TAL Metals, Total CN; Plus for MW-04A: PCBs (as Aroclors), TCL Pesticides & Herbicides	
MW-04B	MW4B-121509	12/15/2009	2.5 to 12.5	14.5		
MW-04C	MW4C-121509*	12/15/2009	30 to 40	46		
MW-05A	MW5A-121609	12/16/2009	75 to 85	87	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
MW-05B	MW5B-121609	12/16/2009	5 to 15	17		
MW-06A	MW6A-121509	12/15/2009	25.5 to 35.5	37.5	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
MW-06B	MW6B-121409	12/14/2009	5 to 15	15		
MW-07A	MW7A-121509	12/15/2009	30 to 40	40	TCL VOCs, TCL SVOCs, TAL Metals, and Total CN	
MW-07B	MW7B-121509	12/15/2009	5 to 15	17		
MW-08A	MW-8A-081112	8/11/2012	5 to 15	17	TCL VOCs, TCL SVOCs, RCRA 8 Metals, and Total CN; Plus for MW-08B and MW-08C, total & dissolved iron	
MW-08B	MW-8B-081112	8/11/2012	30 to 40	42		
MW-08C	MW-8C-081112	8/11/2012	70 to 80	82		
SB-20J	SB-20J-081112	8/11/2012	70 to 80	82	TCL VOCs, TCL SVOCs, total & dissovled iron	
MW-09C	MW-9C_020613	2/6/2013	70 to 80	82	TCL VOCs, TCL SVOCs, RCRA 8 Metals, and Total CN	
MW-10C	MW-10C_020513	2/5/2013	70 to 80	82	TCL VOCs, TCL SVOCs, RCRA 8 Metals, and Total CN	
MW-11B	MW-11B_020413	2/4/2013	33 to 43	43	TCL VOCs, TCL SVOCs, RCRA 8 Metals, and Total CN	
MW-11C	MW-11C-020413	2/4/2013	90 to 100	102.5		
MW-12B	MW-12B-020413*	2/4/2013	28 to 38	40.5	TCL VOCs, TCL SVOCs, RCRA 8 Metals, and Total CN	
MW-12C	MW-12C_020413	2/4/2013	76 to 86	88.5		
MW-16A	MW16A-080113	8/1/2013	8 to 18	20.7	VOCs, SVOCs, Total CN	
MW-16B	MW16B-080113	8/1/2013	38 to 48	50		
MW-16C	MW16C-080113	8/1/2013	98 to 108	110		
MW-17A	MW17A-73113	7/31/2013	8 to 18	20	VOCs, SVOCs, Total CN	
MW-17B	MW17B-73113*	7/31/2013	36 to 46	48.7		
MW-17C	MW17C-73113	7/31/2013	100 to 110	112.7		
MW-18A	MW18A-73113	7/31/2013	8 to 18	20	VOCs, SVOCs, Total CN	
MW-18B	MW18B-73113	7/31/2013	32 to 42	44		
MW-18C	MW18C-73113	7/31/2013	97 to 107	109		
MW-19A	MW19A-73113	7/31/2013	8 to 23	25	VOCs, SVOCs, Total CN	
MW-19B	MW19B-73113	7/31/2013	28 to 38	40		
MW-19C	MW19C-73113	7/31/2013	78 to 88	90		

Notes:

* Field duplicate sample collected at this location
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
CN - cyanide
PCBs - polychlorinated biphenyls
DRO - Diesel Range Organics
GRO - Gasoline Range Organics
TPH - Total Petroleum Hydrocarbons
TCL - Target Compound List
RCRA - Resource Conservation and Recovery Act
TAL - Target Analyte List
TCLP - Toxicity Characteristic Leaching Procedure
BTEX - benzene, toluene, ethylbenzen, and xylenes
PAHs - polycyclic aromatic hydrocarbons
As - arsenic
Pb - lead
Hg - mercury

Table 3-2
Soil Vapor, Indoor Air, and Ambient Air Sample Investigation Summary and Rationale
Former Equity Works MGP Site
Brooklyn, New York

Location	Sample Source	Sample Location	Sample ID	Sampling Date
NOVEMBER 2009 Sampling Event [e]				
	Ambient Air	AMB	AMB-111709	11/17/2009
222 Maspeth Ave	Indoor Air	IA-1 [a]	IA-1-111709	11/17/2009
	Soil Vapor	SV-1 [b]	SV-1-111709	11/17/2009
252 Maspeth Ave	Indoor Air	IA-2 [c]	IA-2-111709	11/17/2009
	Soil Vapor	SV-2 [d]	SV-2-111709	11/17/2009
MARCH 2010 Sampling Event				
	Ambient Air	AMB-1	AMB-1	3/14/2010
222 Maspeth Ave	Indoor Air	IA-1 [a]	IA-1	3/14/2010
	Indoor Air	IA-1 [a]	IA-1 Dup	3/14/2010
	Soil Vapor	SV-1 [b]	SV-1	3/14/2010
252 Maspeth Ave	Indoor Air	IA-2 [c]	IA-2	3/14/2010
	Soil Vapor	SV-2 [d]	SV-2	3/14/2010
AUGUST 2010 Sampling Event				
222 Maspeth Ave	Ambient Air	AMB	AMB-1-082810	8/28/2010
	Indoor Air	IA-1 [a]	IA-1-082810	8/28/2010
	Soil Vapor	SV-1 [b]	SV-1-082810	8/28/2010
FEBRUARY 2011Sampling Event				
222 Maspeth Ave	Ambient Air	AMB-1	AMB1	2/12/2011
	Indoor Air	IA-1 [a]	IA1	2/12/2011
	Indoor Air	IA-1-Dup [a]	IA1 DUP	2/12/2011
	Soil Vapor	SV-1 [b]	SS1	2/12/2011
MARCH 2015 Sampling Event				
	Ambient Air	OA-1	OA-1-032515	3/25/2015
1 Rewe St (north end)	Indoor Air	IA-A	IA-A-032515	3/25/2015
	Indoor Air	IA-A	AIR-DUP-032515	3/25/2015
	Soil Vapor	SG-A	SG-A-032515	3/25/2015
1 Rewe St (south end)	Indoor Air	IA-B	IA-B-032515	3/25/2015
	Soil Vapor	SG-B	SG-B-032515	3/25/2015
7-9 Rewe St	Indoor Air	IA-C	IA-C-032515	3/25/2015
	Soil Vapor	SG-C	SG-C-032515	3/25/2015

Notes:
All samples were analyzed for VOCs pls National Grid MGP Indicator Compounds using USEPA Compendium Method TO-15.
Soil vapor samples were also analyzed for helium using ASTM Method D-1946 Modified.
DUP - field duplicate sample

[a] At 222 Maspeth Ave, IA-1 was collected from the ground floor (locker room area) of the office structure.
[b] At 222 Maspeth Ave, SV-1 was collected at the same location as IA-1 from directly below the concrete floor
[c] At 252 Maspeth Ave, IA-2 was collected from the ground floor of the mechanics shop.
[d] At 252 Maspeth Ave, SV-2 was collected at the same location as IA-2 from directly below the concete floor
[e] The samples from November 2009 were also analyzed using NJDEP - SRWM Low Level USEPA TO-15 Method.

Table 3-3
Summary of Location Coordinates and Elevations
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Associated Well ID	NAD 83 State Plane New York East (Ft)		NAVD 88		Total Depth (ft bgs)
		Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	
Indoor Air / Soil Vapor						
AMB-1		686689.7	648992.4	NA	NA	NA
IA-1		686688.5	649009.5	NA	NA	NA
IA-2		686732.9	649147.4	NA	NA	NA
IA-A		686556.0	648928.6	NA	NA	NA
IA-B		686426.6	649000.1	NA	NA	NA
IA-C		686509.9	649291.6	NA	NA	NA
OA-1		686173.4	649086.5	NA	NA	NA
SG-A		686556.0	648928.6	NA	NA	NA
SG-B		686426.6	649000.1	NA	NA	NA
SG-C		686509.9	649291.6	NA	NA	NA
SV-1		686688.5	649009.5	NA	NA	NA
SV-2		686732.9	649147.4	NA	NA	NA
Wells						
MW-1A		686456.6	648929.5	12.92	12.63	15
MW-1B		686440.8	648936.0	12.79	12.22	40
MW-2A		686714.2	649124.3	12.38	11.95	17
MW-3A		686737.4	649228.4	11.93	11.32	17
MW-4A		686652.5	649388.5	12.94	12.25	14.5
MW-4B		686645.8	649385.2	13.23	12.47	46
MW-5A		686580.8	649164.7	14.71	14.14	17
MW-6A		686630.1	648870.2	13.19	12.85	15
MW-7A		686607.8	649318.6	12.82	12.57	17
MW-16A		686637.0	649845.3	11.86	11.357	18
MW-17A		686381.5	649721.2	11.852	11.498	18
MW-18A		686781.4	649804.1	11.91	11.94	18
MW-19A		686298.5	649501.6	9.959	9.654	23
PDI-1		686752.2	649174.6	11.63	11.33	59
PDI-2		686766.7	649219.0	11.45	11.25	55
PDI-3		686715.9	649236.5	12.15	11.75	55
PDI-4		686663.4	649254.0	12.92	12.57	55
PDI-5		686654.6	649286.4	12.65	12.05	55
PDI-6		686548.3	649259.3	13.3	12.8	57
PDI-8		686519.9	649174.2	14.49	NA	55
PW-1		686676.4	649044.2	13.34	12.81	78
RW-1		686698.8	649174.7	10.4	NA	45
RW-2		686651.6	649130.1	10.8	NA	51
RW-3		686627.3	649138.9	11.7	NA	53
RW-4		686560.2	649162.3	12.4	NA	51
RW-5		686541.0	649169.1	12.6	NA	51
RW-6		686749.6	649175.5	10.3	NA	47
RW-7		686760.4	649200.0	10.3	NA	50
RW-8		686765.5	649218.0	10.3	NA	48
RW-9		686743.6	649227.1	10.2	NA	50
RW-10		686726.5	649232.5	10.3	NA	48
RW-11		686710.1	649238.6	10.3	NA	46
RW-12		686692.6	649244.2	10.3	NA	46
RW-13		686675.7	649250.0	10.7	NA	46
RW-14		686658.8	649255.8	11	NA	45
RW-15		686647.4	649270.0	11.3	NA	45
RW-16		686653.4	649286.8	11.7	NA	50
RW-17		686548.9	649253.9	12.4	NA	48
RW-18		686542.2	649232.4	12.6	NA	50
RW-19		686535.0	649213.8	12.8	NA	52
RW-20		686528.5	649194.6	13	NA	52
RW-21		686522.0	649175.7	13.2	NA	50
RW-22		686515.4	649156.8	13	NA	46
RW-23		686508.9	649137.9	13	NA	44

Table 3-3
Summary of Location Coordinates and Elevations
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Associated Well ID	NAD 83 State Plane New York East (Ft)		NAVD 88		Total Depth (ft bgs)
		Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	
Surface Soil						
SS-02 (at SB-3)		686735.8	649224.2	12.12	NA	NA
SS-03 (at SB-5B)		686576.5	649166.2	14.69	NA	NA
SS-04 (at SB-7A)		686619.8	649398.8	12.51	NA	NA
SS-05 (at SB-11)		686609.4	649222.8	13.61	NA	NA
Soil Borings / Monitoring Wells						
SB-1C/MW-1C	MW-1C	686446.6	648934.3	12.86	12.47	100
SB-2B/MW-2B	MW-2B	686716.3	649128.4	12.41	11.99	52
SB-3B/MW-3B	MW-3B	686735.8	649224.2	12.12	11.25	48
SB-3C/MW-3C	MW-3C	686734.0	649227.8	12.06	11.7	80
SB-4C/MW-4C	MW-4C	686648.6	649387.4	12.94	12.03	87
SB-5B/MW-5B	MW-5B	686576.5	649166.2	14.69	14.19	58
SB-6B/MW-6B	MW-6B	686624.9	648871.8	13.22	12.5	55
SB-7A		686619.8	649398.8	12.51	NA	8.17
SB-7B		686600.2	649404.9	12.77	NA	46
SB-8		686604.0	648991.8	13.2	NA	26.1
SB-9		686584.6	649111.3	13.04	NA	50
SB-10		686558.1	649098.4	12.74	NA	48
SB-11		686609.4	649222.8	13.61	NA	64
SB-12A		686655.9	649309.7	12.66	NA	12.2
SB-12B		686661.3	649313.7	12.28	NA	54
SB-13		686607.1	649033.2	12.98	NA	25.5
SB-14A		686603.4	649075.3	12.75	NA	5.5
SB-14B/GW-1	GW-1 [a]	686605.7	649081.9	12.88	NA	56
SB-15		686693.0	649175.8	11.91	NA	54
SB-16A		686670.5	649204.4	13.25	NA	15.5
SB-16B		686676.5	649221.0	13.25	NA	54
SB-16C		686656.4	649237.9	12.94	NA	105
SB-17/MW-7B	MW-7B	686604.6	649316.5	12.82	11.99	50
SB-18		686598.4	649370.5	12.45	NA	52
SB-19		686528.9	649024.0	12.92	NA	100
SB-20/MW-8A,B,C	MW-8A	686682.9	649046.7	12.81	NA	110
	MW-8B	686682.9	649046.7	12.81	NA	
	MW-8C	686682.9	649046.7	12.81	NA	
SB-20J		686653.4	649059.1	12.8	NA	250
SB-21/MW-14B	MW-14B	686522.6	649174.3	14.53	13.94	110
SB-22		686575.7	649323.3	12.64	NA	110
SB-23/MW-09C	MW-9C	686396.1	648879.6	12.2	11.65	100
SB-24/MW-10C	MW-10C	686597.6	648810.2	13.05	12.69	110
SB-25/MW-11B,C	MW-11B	686593.1	649555.8	11.13	10.66	110
	MW-11C	686593.1	649555.8	11.13	10.51	
SB-26/MW-12B,C	MW-12B	686726.2	649337.2	10.94	10.48	105
	MW-12C	686726.2	649337.2	10.94	10.48	
SB-27		686810.8	648985.3	14	NA	100
SB-28		686851.3	649137.1	13.41	NA	100
SB-29/MW-15B	MW-15B	686645.6	649142.9	12.89	12.13	105
SB-30		686666.6	648943.5	12.54	NA	95
SB-31		686369.1	649192.9	13.05	NA	100
SB-32		686256.9	648999.4	12.45	NA	100
SB-33		686867.9	648966.5	15.27	NA	100
SB-34		686792.4	648894.4	15.09	NA	100
SB-35		686944.9	648944.6	16.19	NA	50
SB-36/MW-16B,C	MW-16B	686637.9	649848.2	11.82	11.091	115
	MW-16C	686637.9	649848.2	11.82	11.095	
SB-37/MW-17B,C	MW-17B	686382.4	649723.6	11.88	11.263	120
	MW-17C	686382.4	649723.6	11.88	11.028	

Table 3-3
Summary of Location Coordinates and Elevations
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Associated Well ID	NAD 83 State Plane New York East (Ft)		NAVD 88		Total Depth (ft bgs)
		Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	
Surface Soil (continued)						
SB-38/MW-18B,C	MW-18B	686785.1	649803.0	11.85	11.697	120
	MW-18C	686785.1	649803.0	11.85	11.608	
SB-39/MW-19B,C	MW-19B	686296.0	649502.7	9.9	9.388	100
	MW-19C	686296.0	649502.7	9.9	9.43	
SB-40		686577.9	648944.3	16.86	NA	55
SB-41		686446.9	649105.5	15.84	NA	45
SB-42		686297.8	649104.6	15.74	NA	50
SB-43		686442.6	649308.9	14.3	NA	50
SB-44		686531.4	649383.7	14.57	NA	50
SB-45		686300.4	649314.9	14.08	NA	55
SB-46		686375.4	649462.7	14.55	NA	50
SB-47		686474.7	649455.6	14.48	NA	50
T1-SB1		686647.2	649528.8	11.011	NA	30
T1-SB2		686628.3	649535.2	11.02	NA	30
T1-SB3		686609.4	649541.7	11.002	NA	30
T1-SB4		686576.3	649553.2	10.891	NA	30
T1-SB5		686562.2	649558.0	10.8	NA	25
T1-SB6		686547.9	649563.0	10.847	NA	25
T1-SB7		686533.7	649567.8	10.875	NA	25
T1-SB8		686519.6	649572.7	10.794	NA	25
T1-SB9		686500.6	649579.2	10.815	NA	25
T1-SB10		686481.7	649585.8	10.736	NA	25
T2-SB1		686467.7	649590.6	10.972	NA	25
T2-SB2		686444.1	649598.7	11.252	NA	25
T2-SB3		686420.4	649606.8	11.188	NA	25
T2-SB4		686396.8	649614.9	11.203	NA	25
T2-SB5		686373.2	649623.1	11.294	NA	25
T3-SB1		686285.3	649442.0	9.966	NA	25
T3-SB2		686294.1	649470.7	10.025	NA	25
T3-SB3		686315.1	649528.6	10.323	NA	30
T3-SB4		686323.4	649556.1	10.375	NA	30
T3-SB5		686334.1	649583.9	10.375	NA	25
T4-SB1		686363.9	649694.6	11.411	NA	30
T4-SB2		686372.2	649718.2	11.403	NA	30
T4-SB3		686380.4	649740.8	11.407	NA	30
T4-SB4		686388.7	649764.5	11.263	NA	30
T4-SB5		686397.0	649788.0	11.137	NA	8
T4-SB6		686403.8	649807.4	11.041	NA	8
T5-SB1		686599.0	649868.1	11.423	NA	30
T5-SB2		686613.2	649863.2	11.511	NA	30
T5-SB3		686627.4	649858.3	11.618	NA	30
T5-SB4		686641.6	649853.4	11.693	NA	30
T5-SB5		686655.8	649848.6	11.768	NA	30
T5-SB6		686670.0	649843.7	11.805	NA	30
T5-SB7		686684.2	649837.8	11.71	NA	30
T5-SB8		686698.3	649833.9	11.647	NA	30
T6-SB1		686534.6	649890.3	11.252	NA	30
T6-SB2		686548.7	649885.4	11.141	NA	30
T6-SB3		686562.9	649880.5	11.066	NA	30
T6-SB4		686579.3	649874.9	10.992	NA	30
Test Pits						
TP-1		686597.5	649172.8	10.45	NA	13.9
TP-2		686640.0	649387.0	12.51	NA	8.5
TP-2B		686653.3	649381.9	12.5	NA	7.5
TP-2C		686646.9	649367.9	12.5	NA	7.0
TP-3		686662.9	649318.6	13.12	NA	7.5
TP-4		686650.9	649289.1	13	NA	7.0

Table 3-3
Summary of Location Coordinates and Elevations
Former Equity Works MGP Site
Brooklyn, New York

Location ID	Associated Well ID	NAD 83 State Plane New York East (Ft)		NAVD 88		Total Depth (ft bgs)
		Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	
TP-4A		686631.0	649285.0	NA	NA	4.5
Test Pits (continued)						
TP-5		686752.5	649174.2	13	NA	5.1
TP-6		686762.6	649222.8	13	NA	5.33
TP-7		686715.5	649237.3	13	NA	6.83
TP-8		686671.4	649252.6	NA	NA	7.0
TP-9		686650.4	649291.0	NA	NA	7.0
TP-10		686665.8	649331.7	NA	NA	7.0
TP-11		686690.3	649391.4	NA	NA	7.0
TP-12		686647.0	649403.0	NA	NA	5.0
TP-12A		686629.1	649409.8	NA	NA	5.0
TP-13		686605.8	649419.4	NA	NA	6.16
TP-14		686589.1	649369.9	NA	NA	7.0
TP-15		686576.0	649330.6	NA	NA	6
TP-15A		686567.5	649305.2	NA	NA	6.0
TP-16		686559.9	649283.6	NA	NA	6.0
TP-17		686546.4	649249.1	NA	NA	6.66
TP-18		686610.1	649144.2	NA	NA	6.83
TP-19		686642.9	649192.8	NA	NA	6.5
TP-20		686523.9	649173.7	NA	NA	6.58
TP-21		686554.8	649220.8	NA	NA	6.16

Notes:
[a] - GW-1 was a groundwater grab sampled collected on 9/27/2009 from a temporary well constructed in boring SB-14B.
NA - not applicable or not available
NAD 83 - North American Datum of 1983
NAVD 88 - North American Vertical Datum of 1988
ft - feet
bgs - below ground surface

Table 3-4
Monitoring Well Construction Details and Groundwater Elevation Summary
Former Equity Works MGP Site
Brooklyn, New York

MW ID	Date Installed	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Screened Interval (ft bgs)	Sump Interval (ft bgs)	Screen Slot	Well Diameter
Shallow Zone Wells							
MW-1A	22-Oct-09	12.92	12.63	5-15	NA	0.01	1" prepack
MW-2A	15-Oct-09	12.38	11.95	5-15	15-17	0.02	2" PVC
MW-3A	4-Nov-09	11.93	11.32	5-15	15-17	0.02	2" PVC
MW-4A	4-Nov-09	12.94	12.25	2.5-12.5	12.5-14.5	0.02	2" PVC
MW-5A	4-Nov-09	14.71	14.14	5-15	15-17	0.02	2" PVC
MW-6A	22-Oct-09	13.19	12.85	5-15	NA	0.01	1" prepack
MW-7A	3-Nov-09	12.82	12.57	5-15	15-17	0.02	2" PVC
MW-8A	25-Sep-11	12.81	NA	5-15	15-17	0.02	2" PVC
MW-16A	8-Jul-13	11.86	11.357	8-18	18-20.7	0.01	2" PVC
MW-17A	10-Jul-13	11.852	11.498	8-18	18-20	0.01	2" PVC
MW-18A	12-Jul-13	11.91	11.94	8-18	18-20	0.01	2" PVC
MW-19A	14-Jul-13	9.959	9.654	8-23	23-25	0.01	2" PVC
Intermediate Zone Wells							
MW-1B	25-Nov-09	12.79	12.22	30-40	NA	0.01	1" PVC
MW-2B	15-Oct-09	12.41	11.99	30-40	40-42	0.02	2" PVC
MW-3B	21-Nov-09	12.12	11.25	30-40	40-42	0.02	2" PVC
MW-4B	6-Nov-09	13.23	12.47	30-40	44-46	0.01	2" PVC
MW-5B	29-Sep-09	14.69	14.19	25.5-35.5	35.5-37.5	0.01	2" PVC
MW-6B	25-Nov-09	13.22	12.5	30-40	NA	0.01	1" PVC
MW-7B	26-Oct-09	12.82	11.99	30-40	40-42	0.02	2" PVC
MW-8B	25-Sep-11	12.81	NA	30-40	40-42	0.02	2" PVC
MW-11B	23-Jul-11	11.13	10.66	33-43	40-42	0.02	2" PVC
MW-12B	26-Jul-12	10.94	10.48	28-38	38-40.5	0.02	2" PVC
MW-14B	21-Sep-11	14.53	13.94	33-43	43-45	0.02	2" PVC
MW-15B	21-Sep-11	12.89	12.13	37-47	47-49	0.02	2" PVC
MW-16B	8-Jul-13	11.82	11.091	38-48	48-50	0.01	2" PVC
MW-17B	10-Jul-13	11.88	11.263	36-46	46-48.7	0.01	2" PVC
MW-18B	12-Jul-13	11.85	11.697	32-42	42-44	0.01	2" PVC
MW-19B	14-Jul-13	9.90	9.388	28-38	38-40	0.01	2" PVC
Deep Zone Wells							
MW-1C	24-Nov-09	12.86	12.47	70-80	80-81	0.01	1" PVC
MW-3C	2-Nov-09	12.06	11.7	67-77	77-79	0.01	2" PVC
MW-4C	13-Oct-09	12.94	12.03	75-85	85-87	0.01	2" PVC
MW-8C	25-Sep-11	12.81	NA	70-80	80-82	0.02	2" PVC
MW-9C	25-Oct-11	12.2	11.65	70-80	80-82	0.01	2" PVC
MW-10C	25-Oct-11	13.05	12.69	70-80	80-82	0.01	2" PVC
MW-11C	23-Jul-11	11.13	10.51	90-100	102.5	0.02	2" PVC
MW-12C	26-Jul-12	10.94	10.48	76-86	86-88.5	0.02	2" PVC
MW-16C	8-Jul-13	11.82	11.095	98-108	108-110	0.01	2" PVC
MW-17C	10-Jul-13	11.88	11.028	100-110	110-112.7	0.01	2" PVC
MW-18C	12-Jul-13	11.85	11.608	97-107	107-109	0.01	2" PVC
MW-19C	14-Jul-13	9.90	9.43	78-88	88-90	0.01	2" PVC
PW-1	30-May-03	13.34	12.81	63-78	NA	0.02	6" PVC

Notes:
ft - feet
bgs - below ground surface
NA - not available
PVC - polyvinyl chloride pipe
(") - inches
Vertical Datum is North American Vertical Datum on 1988 (NAVD88)

Table 3-5
Groundwater Elevation Summary
Former Equity Works MGP Site
Brooklyn, New York

Well ID	Date Installed	Top of Casing Elevation (ft)	11-Dec-09		12-Jan-10		AM 12-Dec-12		PM 12-Dec-12		12-Feb-13		31-Jul-13		16-Jul-15		4-Dec-15	
			Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)	Depth to Water (ft btoc)	Groundwater Elevation (ft datum)
Shallow Zone Wells																		
MW-1A	22-Oct-09	12.63	7.78	4.85	7.22	5.41	8.14	4.49	8.11	4.52	7.78	4.85	7.34	5.29	7.44	5.19	8.17	4.46
MW-2A	15-Oct-09	11.95	6.22	5.73	6.04	5.91	7.19	4.76	10.89	1.06	6.57	5.38	NM	NM	5.58	6.37	6.87	5.08
MW-3A	4-Nov-09	11.32	5.92	5.40	5.93	5.39	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-4A	4-Nov-09	12.25	6.85	5.40	6.67	5.58	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-5A	4-Nov-09	14.14	8.49	5.65	8.31	5.83	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-6A	22-Oct-09	12.85	7.20	5.65	6.79	6.06	7.48	5.37	7.42	5.43	6.99	5.86	6.79	6.06	6.96	5.89	7.83	5.02
MW-7A	3-Nov-09	12.57	7.25	5.32	6.98	5.59	NM	NM	NM	NM	AB	AB	AB	AB	AB	AB	AB	AB
MW-8A	25-Sep-11	NA [b]	NI	NI	NI	NI	NM	NM	NM	NM	7.38	NA	NM	NM	NM	NM	AB	AB
MW-16A	8-Jul-13	11.36	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.23	2.13	9.76	1.60	10.28	1.08
MW-17A	10-Jul-13	11.50	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.17	4.33	7.54	3.96	8.09	3.41
MW-18A	12-Jul-13	11.94	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.88	6.06	7.40	4.54	7.65	4.29
MW-19A	14-Jul-13	9.65	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.58	5.07	4.90	4.75	NM	NM
PDI-1	13-Aug-12	11.33	NI	NI	NI	NI	NM	NM	NM	NM	AB	AB	AB	AB	AB	AB	AB	AB
PDI-3	23-Aug-12	11.75	NI	NI	NI	NI	NM	NM	NM	NM	AB	AB	AB	AB	AB	AB	AB	AB
PDI-4	21-Aug-12	12.57	NI	NI	NI	NI	NM	NM	7.56	5.01	AB	AB	AB	AB	AB	AB	AB	AB
GPEC-MW222S	29-Jun-12	17.16	NI	NI	NI	NI	5.21	11.95	5.19	11.97	NM	NM	NM	NM	3.91	13.25	5.61	11.55
Intermediate Zone Wells																		
MW-1B	25-Nov-09	12.22	9.60	2.62	9.38	2.84	10.06	2.16	10.17	2.05	9.97	2.25	9.52	2.70	9.46	2.76	10.10	2.12
MW-2B	15-Oct-09	11.99	10.80	1.19	10.68	1.31	10.85	1.14	7.07	4.92	11.18	0.81	NM	NM	10.21	1.78	10.75	1.24
MW-3B	21-Nov-09	11.25	10.30	0.95	10.21	1.04	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-4B	6-Nov-09	12.47	12.10	0.37	11.81	0.66	12.78	-0.31	NM	NM	13.13	-0.66	AB	AB	AB	AB	AB	AB
MW-5B	29-Sep-09	14.19	13.55	0.64	13.32	0.87	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-6B	25-Nov-09	12.50	11.85	0.65	11.67	0.83	11.18	1.32	11.44	1.06	11.11	1.39	11.66	0.84	11.31	1.19	11.48	1.02
MW-7B	26-Oct-09	11.99	11.49	0.50	11.27	0.72	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-8B	25-Sep-11	NA [b]	NI	NI	NI	NI	NM	NM	NM	NM	11.98	NA	NM	NM	NM	NM	AB	AB
MW-11B	23-Jul-11	10.66	NI	NI	NI	NI	10.51	0.15	10.47	0.19	11.12	-0.46	9.79	0.87	9.75	0.91	10.48	0.18
MW-12B	26-Jul-12	10.48	NI	NI	NI	NI	9.70	0.78	9.74	0.74	10.29	0.19	8.98	1.50	6.01	4.47	9.64	0.84
MW-14B	21-Sep-11	13.94	NI	NI	NI	NI	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	AB	AB
MW-15B	21-Sep-11	12.13	NI	NI	NI	NI	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	AB	AB
MW-16B	8-Jul-13	11.09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	10.09	1.00	10.04	1.05	11.02	0.07
MW-17B	10-Jul-13	11.26	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	10.48	0.78	10.37	0.89	11.32	-0.06
MW-18B	12-Jul-13	11.70	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	10.80	0.90	10.76	0.94	11.39	0.31
MW-19B	14-Jul-13	9.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	8.23	1.16	8.81	0.58	NM	NM
PDI-1	13-Aug-12	11.33	NI	NI	NI	NI	NM	NM	7.43	3.90	AB	AB	AB	AB	AB	AB	AB	AB
PDI-2	26-Aug-12	11.25	NI	NI	NI	NI	NM	NM	10.20	1.05	AB	AB	AB	AB	AB	AB	AB	AB
PDI-3	23-Aug-12	11.75	NI	NI	NI	NI	NM	NM	8.10	3.65	AB	AB	AB	AB	AB	AB	AB	AB
PDI-5	29-Aug-12	12.05	NI	NI	NI	NI	NM	NM	16.63	-4.58	AB	AB	AB	AB	AB	AB	AB	AB
PDI-6	24-Aug-12	12.80	NI	NI	NI	NI	NM	NM	11.90	0.90	AB	AB	AB	AB	AB	AB	AB	AB
PDI-8	31-Aug-12	NA [c]	NI	NI	NI	NI	NM	NM	NM	NM	14.05	NA	AB	AB	AB	AB	AB	AB
RW-12	19-Mar-13	NA [b]	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	9.06	NA	NM	NM
RW-20	16-Mar-13	NA [b]	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NM	NM	11.91	NA	NM	NM
GPEC-GT-1(MW-18)	NA	14.41	NA	NA	NA	NA	9.95	4.46	10.01	4.40	NM	NM	NM	NM	9.70	4.71	NM	NM
Deep Zone Wells																		
MW-1C	24-Nov-09	12.47	9.85	2.62	9.60	2.87	10.30	2.17	10.45	2.02	10.18	2.29	9.72	2.75	9.69	2.78	9.97	2.50
MW-3C	2-Nov-09	11.70	9.98	1.72	9.58	2.12	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
MW-4C	13-Oct-09	12.03	10.40	1.63	9.95	2.08	11.09	0.94	12.05	-0.02	11.59	0.44	AB	AB	AB	AB	AB	AB
PW-1 - off	30-May-03	12.81	10.52	2.29	9.81	3.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
PW-1 - on	30-May-03	12.81	14.20	-1.39	[a]	[a]	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-8C	25-Sep-11	NA [b]	NI	NI	NI	NI	NM	NM	NM	NM	10.53	NA	NM	NM	NM	NM	AB	AB
MW-9C	25-Oct-11	11.65	NI	NI	NI	NI	NM	NM	NM	NM	9.31	2.34	8.92	2.73	8.60	3.05	9.35	2.30
MW-10C	25-Oct-11	12.69	NI	NI	NI	NI	10.68	2.01	NM	NM	10.54	2.15	9.99	2.70	NM	NM	10.46	2.23
MW-11C	23-Jul-11	10.51	NI	NI	NI	NI	8.53	1.98	9.88	0.63	8.99	1.52	8.40	2.11	8.38	2.13	9.28	1.23
MW-12C	26-Jul-12	10.48	NI	NI	NI	NI	8.46	2.02	9.37	1.11	8.80	1.68	8.42	2.06	8.05	2.43	8.96	1.52
MW-16C	8-Jul-13	11.10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.12	1.98	8.71	2.39	9.90	1.20
MW-17C	10-Jul-13	11.03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.44	1.59	9.29	1.74	10.17	0.86
MW-18C	12-Jul-13	11.61	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.95	1.66	9.59	2.02	10.49	1.12
MW-19C	14-Jul-13	9.43	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.17	2.26	7.76	1.67	NM	NM
GPEC-MW222D	29-Jun-12	16.96	NI	NI	NI	NI	11.23	5.73	11.38	5.58	NM	NM	NM	NM	10.74	6.22	11.34	5.62

Notes:

NA - Not available
NI - Not installed
NM - not measured
AB - Abandoned
AM - during high tide
PM - during low tide
ft - feet
btoc - below top of casing

DTW = Depth to water from the top of casing/pvc
Some PDI wells (PDI-1 and PDI-3 are screened across multiple zones, groundwater elevation may represent a combination of zones.
Vertical Datum is North American Vertical Datum on 1988 (NAVD88)
[a] Pump in PW-1 shut down on Friday, Jan 8, 2010
[b] The top of casing elevation was not surveyed.
[c] PDI-8 was inaccessible/being advanced during the survey. Two points of rebar were surveyed on either side, adjacent to, the boring location

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Table 3-6
NAPL Thickness Measurements
Former Equity Works MGP Site
Brooklyn, New York

Well ID	Date Installed	11-Dec-09			12-Jan-10			AM 12-Dec-12			PM 12-Dec-12			16-Jul-15		
		Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments
Shallow Zone Wells																
MW-1A	22-Oct-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		ND	ND		ND	ND		ND	ND	
MW-2A	15-Oct-09	ND	ND	Bottom 0.20' of probe gray silt, faint sheen, unknown hydrocarbon like odor.	ND	ND		ND	ND	Soft bottom, naphthalene-like odor	ND	ND		ND	ND	
MW-3A	4-Nov-09	ND	ND	Black silt on end of probe. No odor. No sheen.	ND	ND	Soft, grey silt, some sheen	AB	AB		AB	AB	Unable to access - abandoned	AB	AB	
MW-4A	4-Nov-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		AB	AB		AB	AB	Decommissioned	AB	AB	
MW-5A	4-Nov-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		AB	AB		AB	AB	Unable to access	AB	AB	
MW-6A	22-Oct-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		ND	ND		ND	ND		ND	ND	
MW-7A	3-Nov-09	ND	ND	3 inches black sediment on probe, slight hydrocarbon-like odor. No sheen.	ND	ND		AB	AB		AB	AB	Unable to access	AB	AB	
MW-8A	25-Sep-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access - weekend only	NM	NM	
MW-16A	8-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
MW-17A	10-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
MW-18A	12-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
MW-19A	14-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
PDI-1	13-Aug-12	NI	NI		NI	NI		NM	NM		NM	NM		AB	AB	
PDI-3	23-Aug-12	NI	NI		NI	NI		NM	NM		NM	NM		AB	AB	
PDI-4	21-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND	Solid beep all the way down, very black, viscous NAPL blebs across tape	AB	AB	
GPEC-MW222S	29-Jun-12	NA	NA		NA	NA		NM	NM		NA	NA		ND	ND	
Intermediate Zone Wells																
MW-1B	25-Nov-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		ND	ND		ND	ND		ND	ND	
MW-2B	15-Oct-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND	Soft with sheen	ND	ND	Soft bottom, slight naphthalene-like odor	ND	ND		ND	ND	
MW-3B	21-Nov-09	33.1	4 - from weighted string	Use weighted line to obtain depth to bottom. Bottom ~4 ft covered in DNAPL, black. Strong naphthalene-like odor.	34.9	4.10 - from weighted string	DNAPL. 4.5 ft of tape is coated with product. 4.1 ft of weighted string is coated.	AB	AB		AB	AB	Unable to access - abandoned	AB	AB	
MW-4B	6-Nov-09	12.01	0.09	Brown LNAPL, fuel-like odor, moderate, detected product. Pulled up tape and observed on end of probe.	11.82	0.01	LNAPL	ND	ND	Soft bottom, fuel oil-like odor	NM	NM	Unable to access	NM	NM	
MW-5B	29-Sep-09	ND	ND	Bottom tip of probe has brown silt. No odor. No sheen.	ND	ND		AB	AB		AB	AB	Unable to access	AB	AB	
MW-6B	25-Nov-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		ND	ND		ND	ND		ND	ND	
MW-7B	26-Oct-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		AB	AB		AB	AB	Unable to access	AB	AB	
MW-8B	25-Sep-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access - weekend only	NM	NM	
MW-11B	23-Jul-11	NI	NI		NI	NI		ND	ND	Soft bottom, no odor	ND	ND		ND	ND	
MW-12B	26-Jul-12	NI	NI		NI	NI		ND	ND	Soft bottom, fuel oil-like odor	ND	ND		ND	ND	
MW-14B	21-Sep-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access - trailer parked over	NM	NM	
MW-15B	21-Sep-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access	NM	NM	
MW-16B	8-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	Very soft bottom, little sheen on probe
MW-17B	10-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
MW-18B	12-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
MW-19B	14-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI		ND	ND	
PDI-1	13-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND		AB	AB	
PDI-2	26-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND	Soft bottom, bottom 2 ft of tape NAPL saturated	AB	AB	
PDI-3	23-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND	Soft bottom, NAPL blebs throughout tape	AB	AB	
PDI-5	29-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND	Naphthalene-like odor	AB	AB	
PDI-6	24-Aug-12	NI	NI		NI	NI		NM	NM		ND	ND	Soft bottom, naphthalene-like odor, bottom 4 ft of tape NAPL saturated	AB	AB	
PDI-8	31-Aug-12	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access, trailer parked over	AB	AB	
RW-12	19-Mar-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	NA	5.5	Product thickness measured directly
RW-20	16-Mar-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	NM	NM	
GPEC-GT-1(MW-18)	NA	NA	NA		NA	NA		NA	NA		NA	NA	NA	ND	ND	

Table 3-6
NAPL Thickness Measurements
Former Equity Works MGP Site
Brooklyn, New York

Well ID	Date Installed	11-Dec-09			12-Jan-10			AM 12-Dec-12			PM 12-Dec-12			16-Jul-15		
		Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments	Depth to Product (ft btoc)	Product Thickness (ft)	Comments
Deep Zone Wells																
MW-1C	24-Nov-09	ND	ND	Clean probe. Very faint naphthalene-like odor.	ND	ND		ND	ND		ND	ND		ND	ND	
MW-3C	2-Nov-09	ND	ND	Clean probe. No odor. No sheen.	ND	ND		AB	AB		AB	AB	Unable to access - abandoned	AB	AB	
MW-4C	13-Oct-09	ND	ND	Bottom soft. No odor. No sheen.	ND	ND		ND	ND	Soft bottom, slight fuel oil-like odor, bentonite on tip	ND	ND		NM	NM	
PW-1 - off	30-May-03	ND	ND	Pump off condition. Bottom 7 ft of tape and probe observed discontinuous DNAPL staining. Moderate-strong naphthalene-like odor.	72.60	4.80	5 ft of tape coated with NAPL, soft bottom	NM	NM		NM	NM	Unable to access - weekend only	NM	NM	
PW-1 - on	30-May-03	ND	ND	Pump on condition water level. Recovery when pump cycle off almost immediate.	NA	NA	Pump shut down on Friday, Jan 8, 2010	NM	NM		NM	NM	Unable to access - weekend only	NM	NM	
MW-8C	25-Sep-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access - weekend only	NM	NM	
MW-9C	25-Oct-11	NI	NI		NI	NI		NM	NM		NM	NM	Unable to access, car parked on well	ND	ND	
MW-10C	25-Oct-11	NI	NI		NI	NI		ND	ND		NM	NM	Unable to access, car parked on well	NM	NM	
MW-11C	23-Jul-11	NI	NI		NI	NI		ND	ND	Soft bottom, no odor	ND	ND		ND	ND	
MW-12C	26-Jul-12	NI	NI		NI	NI		ND	ND	Soft bottom, slight fuel oil-like odor	ND	ND		ND	ND	
MW-16C	8-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	ND	ND	
MW-17C	10-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	ND	ND	
MW-18C	12-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	ND	ND	
MW-19C	14-Jul-13	NI	NI		NI	NI		NI	NI		NI	NI	NI	ND	ND	
GPEC-MW222D	29-Jun-12	NA	NA		NA	NA		NA	NA		NA	NA	NA	ND	ND	

Notes:

NA - Not available
NI - Not installed
NM - Not measured
ND - None detected
AB - Abandoned

AM - during high tide
PM - during low tide
DNAPL - Dense non-aqueous phase liquid
LNAPL - Light non-aqueous phase liquid
ft - feet

Table 4-1
Hydraulic Conductivities at Shallow, Intermediate, and Deep Wells
Former Equity Works MGP Site
Brooklyn, New York

Slug test well	Screen Ft bgs	Test Type	Test Number	Estimated Hydraulic Conductivity			Soil Type
				Result (ft/d)	Average (ft/d)	Average (cm/s)	
Shallow Zone							
MW-2A	5-15	Rising Head	Test 1 Test 2 Test 3 Test 4	125.4 168.8 189 106.5	143.7	0.0507	Gravelly sand
MW-4A	2.5-12.5	Rising Head	Test 1 Test 2 Test 3	3.29 2.15 1.42	2.16	0.000762	Fine sand and silt
Intermediate Zone							
MW-2B	30-40	Rising Head	Test 1 Test 2 Test 3	4.71 4.72 3.84	4.40	1.55E-03	Sand and silt
MW-4B	30-40	Rising Head	Test 1 Test 2 Test 3 Test 4	0.95 3.64 0.99 0.95	1.34	4.74E-04	Sand and silt
Deep Zone							
MW-1C	70-80	Rising Head	Test 1	8.13	8.13	2.9E-03	Gravelly sand
MW-3C	67-77	Rising Head	Test 1 Test 2 Test 3	51.98 47.1 44.23	47.7	1.7E-02	Fine sand and silt
MW-4C	75-85	Rising Head	Test 1 Test 2 Test 3	7.77 5.41 7.38	6.77	2.4E-03	Gravelly sand
				Average values			
				Shallow aquifer	**23.8**	**8.4E-03**	
				Intermediate Aquifer	**2.23**	**7.9E-04**	
				Deep aquifer	**16.0**	**5.7E-03**	

Notes:
Average values among wells calculated as the geometric mean of the results.
ft/d - feet per day
cm/s - centimeters per second
ft - feet
bgs - below ground surface

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Table 4-2
Horizontal Hydraulic Gradients at Shallow, Intermediate, and Deep Wells
Former Equity Works MGP Site
Brooklyn, New York

11-Dec-09			4-Dec-15			Horizontal Gradients			
						11-Dec-09		4-Dec-15	
Distance Between Contours	Contour Elevation	Difference	Distance Between Contours	Elevation	Difference	Per Pair	Direction	Per Pair	Direction
(ft)	(ft NAVD88)	(ft)	(ft)	(ft NAVD88)	(ft)	(ft/ft)		(ft/ft)	
Shallow Zone									
220	5.7 4.9	0.80	154	10.0 6.0	4.00	3.64E-03	North to South	2.60E-02	North to South
219	5.7 5.3	0.40	573	6.0 2.0	4.00	1.83E-03	Northwest to South	6.98E-03	North to Southeast
Intermediate Zone									
123	2.5 1.0	1.50	929	2.0 0.0	2.00	1.22E-02	South to North	2.15E-03	Arcing, South to North to Southwast
Deep Zone									
405	2.50 2.10	0.40	622	5.00 1.00	4.00	9.88E-04	West to East	6.43E-03	Northwest to Southeast

Notes:
Calculations based on Figures 4-12 through 4-17
NAVD88 - North Americanl Vertical Datum of 1988
ft - feet
ft/ft - feet per feet

Table 4-3
Vertical Hydraulic Gradients at Shallow, Intermediate, and Deep Wells
Former Equity Works MGP Site
Brooklyn, New York

Location	Well ID	Screen Interval (ft bgs)	Screen Midpoint* (ft bgs)	Distance Between Midpoints (ft)	Groundwater Elevations													
					Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)	Elevation (ft NAVD88)	Difference (ft)
					11-Dec-09		12-Jan-10		12-Dec-2012 PM		12-Feb-13		31-Jul-13		16-Jul-15		16-Jul-15	
Shallow to Intermediate																		
MW-1	MW-1A	5 - 15	11.29	23.711	4.85	-2.23	5.41	-2.57	4.52	-2.47	4.85	-2.60	5.29	-2.59	5.19	-2.43	4.46	-2.34
	MW-1B	30 - 40	35.00		2.62		2.84		2.05		2.25		2.7		2.76		2.12	
MW-2	MW-2A	5 - 15	11.09	23.91	5.73	-4.54	5.91	-4.60	4.88	-3.78	5.38	-4.57	NA	NA	6.37	-4.59	5.08	-3.84
	MW-2B	30 - 40	35.00		1.19		1.31		1.1		0.81		NA		1.78		1.24	
MW-3	MW-3A	5 - 15	10.46	24.54	5.40	-4.45	5.39	-4.35	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-3B	30 - 40	35.00		0.95		1.04		AB		AB		AB		AB		AB	
MW-4	MW-4A	2.5 - 12.5	9.63	25.37	5.40	-4.95	5.58	-4.84	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-4B	30 - 40	35.00		0.45		0.74		AB		AB		AB		AB		AB	
MW-5	MW-5A	5 - 15	11.70	18.80	5.65	-5.01	5.83	-4.96	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-5B	26 - 35.5	30.50		0.64		0.87		AB		AB		AB		AB		AB	
MW-6	MW-6A	5 - 15	11.02	23.98	5.65	-5.00	6.06	-5.23	5.43	-4.37	5.86	-4.47	6.06	-5.22	5.89	-4.70	5.02	-4.00
	MW-6B	30 - 40	35.00		0.65		0.83		1.06		1.39		0.84		1.19		1.02	
MW-7	MW-7A	5 - 15	11.06	23.94	5.32	-4.82	5.59	-4.87	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-7B	30 - 40	35.00		0.50		0.72		AB		AB		AB		AB		AB	
MW-16	MW-16A	8 - 18	13.75	29.25	NI	NI	NI	NI	NI	NI	NI	NI	2.13	-1.13	1.60	-0.55	1.08	-1.01
	MW-16B	38 - 48	43.00		NI		NI		NI		NI		1.00		1.05		0.07	
MW-17	MW-17A	8 - 18	13.00	28.00	NI	NI	NI	NI	NI	NI	NI	NI	4.33	-3.55	3.96	-3.07	3.41	-3.47
	MW-17B	36 - 46	41.00		NI		NI		NI		NI		0.78		0.89		-0.06	
MW-18	MW-18A	8 - 18	13.00	24.00	NI	NI	NI	NI	NI	NI	NI	NI	6.06	-5.16	4.54	-3.60	4.29	-3.98
	MW-18B	32 - 42	37.00		NI		NI		NI		NI		0.90		0.94		0.31	
MW-19	MW-19A	8 - 23	15.50	17.50	NI	NI	NI	NI	NI	NI	NI	NI	5.07	-3.91	4.75	-4.17	NA	NA
	MW-19B	28 - 38	33.00		NI		NI		NI		NI		1.16		0.58		NA	
Intermediate to Deep																		
MW-1	MW-1B	30 - 40	35.00	40.00	2.62	0.00	2.84	0.03	2.05	-0.03	2.25	0.04	2.70	0.05	2.76	0.02	2.12	0.38
	MW-1C	70 - 80	75.00		2.62		2.87		2.02		2.29		2.75		2.78		2.5	
MW-3	MW-3B	30 - 40	35	37	0.95	0.77	1.04	1.08	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-3C	67 - 77	72		1.72		2.12		AB		AB		AB		AB		AB	
MW-4	MW-4B	30 - 40	35	45	0.45	1.18	0.74	1.34	0.00	-0.02	-0.66	1.10	AB	AB	AB	AB	AB	AB
	MW-4C	75 - 85	80		1.63		2.08		-0.02		0.44		AB		AB		AB	
MW-11	MW-11B	33 - 43	38	57	NI	NI	NI	NI	0.19	0.44	-0.46	1.98	0.87	1.24	0.91	1.22	0.18	1.05
	MW-11C	90 - 100	95		NI		NI		0.63		1.52		2.11		2.13		1.23	
MW-12	MW-12B	28 - 38	33	48	NI	NI	NI	NI	0.74	0.37	0.19	1.49	1.50	0.56	4.47	-2.04	0.84	0.68
	MW-12C	76 - 86	81		NI		NI		1.11		1.68		2.06		2.43		1.52	
MW-16	MW-16B	38 - 48	43	60	NI	NI	NI	NI	NI	NI	NI	NI	1.00	0.98	1.05	1.34	0.07	1.13
	MW-16C	98 - 108	103		NI		NI		NI		NI		1.98		2.39		1.20	
MW-17	MW-17B	36 - 46	41	64	NI	NI	NI	NI	NI	NI	NI	NI	0.78	0.81	0.89	0.85	-0.06	0.92
	MW-17C	100 - 110	105		NI		NI		NI		NI		1.59		1.74		0.86	
MW-18	MW-18B	32 - 42	37	65	NI	NI	NI	NI	NI	NI	NI	NI	0.90	0.76	0.94	1.08	0.31	0.81
	MW-18C	97 - 107	102		NI		NI		NI		NI		1.66		2.02		1.12	
MW-19	MW-19B	28 - 38	33	50	NI	NI	NI	NI	NI	NI	NI	NI	1.16	1.10	0.58	1.09	NA	NA
	MW-19C	78 - 88	83		NI		NI		NI		NI		2.26		1.67		NA	
Shallow to Deep																		
MW-1	MW-1A	5 - 15	11.25	63.75	4.85	-2.23	5.41	-2.54	4.52	-2.50	4.85	-2.56	5.29	-2.54	5.19	-2.41	4.46	-1.96
	MW-1C	70 - 80	75		2.62		2.87		2.02		2.29		2.75		2.78		2.5	
MW-3	MW-3A	5 - 15	10.46	61.54	5.40	-3.68	5.39	-3.27	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-3C	67 - 77	72		1.72		2.12		AB		AB		AB		AB		AB	
MW-4	MW-4A	2.5 - 12.5	9.63	70.37	5.40	-3.77	5.58	-3.50	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	MW-4C	75 - 85	80		1.63		2.08		AB		AB		AB		AB		AB	
MW-16	MW-16B	8 - 18	13.75	89.2525	NI	NI	NI	NI	NI	NI	NI	NI	2.13	-0.15	1.6	0.79	1.08	0.12
	MW-16C	98 - 108	103		NI		NI		NI		NI		1.98		2.39		1.2	
MW-17	MW-17B	8 - 18	13.00	92	NI	NI	NI	NI	NI	NI	NI	NI	4.33	-2.74	3.96	-2.22	3.41	-2.55
	MW-17C	100 - 110	105		NI		NI		NI		NI		1.59		1.74		0.86	
MW-18	MW-18B	8 - 18	13.00	89	NI	NI	NI	NI	NI	NI	NI	NI	6.06	-4.40	4.54	-2.52	4.29	-3.17
	MW-18C	97 - 107	102		NI		NI		NI		NI		1.66		2.02		1.12	
MW-19	MW-19B	8 - 23	15.50	67.5	NI	NI	NI	NI	NI	NI	NI	NI	5.07	-2.81	4.75	-3.08	NA	NA
	MW-19C	78 - 88	83		NI		NI		NI		NI		2.26		1.67		NA	

Notes:
bgs - below groundsurface
ft - feet
NI - Well Not Installed
NA - Not Available / Not Measured
AB - Well Abandoned / Destroyed
NAVD88 - North Americanl Vertical Datum of 1988

* - For water tables wells (A), screen midpoint has been replaced by well water column midpoint.
Negative numbers indicate downward vertical gradients.

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Table 4-3
Vertical Hydraulic Gradients at Shallow, Intermediate, and Deep Wells
Former Equity Works MGP Site
Brooklyn, New York

Location	Well ID	Screen Interval (ft bgs)	Screen Midpoint* (ft bgs)	Distance Between Midpoints (ft)	Vertical Gradients														Vertical Gradients 2009 - 2015	
					Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)	Per Pair (ft/ft)	Average (ft/ft)
					11-Dec-09		12-Jan-10		12-Dec-2012 PM		12-Feb-13		31-Jul-13		16-Jul-15		16-Jul-15			
Shallow to Intermediate																				
MW-1	MW-1A	5 - 15	11.29	23.711	-9.40E-02		-1.08E-01		-1.04E-01		-1.10E-01		-1.09E-01		-1.02E-01		-9.87E-02		**-1.05E-01**	
	MW-1B	30 - 40	35.00																	
MW-2	MW-2A	5 - 15	11.09	23.91	-1.90E-01		-1.92E-01		-1.58E-01		-1.91E-01		NA		-1.92E-01		-1.61E-01		**-1.85E-01**	
	MW-2B	30 - 40	35.00																	
MW-3	MW-3A	5 - 15	10.46	24.54	-1.81E-01		-1.77E-01		AB		AB		AB		AB		AB		**-1.79E-01**	
	MW-3B	30 - 40	35.00																	
MW-4	MW-4A	2.5 - 12.5	9.63	25.37	-1.95E-01		-1.91E-01		AB		AB		AB		AB		AB		**-1.93E-01**	
	MW-4B	30 - 40	35.00																	
MW-5	MW-5A	5 - 15	11.70	18.80	-2.66E-01		-2.64E-01		AB		AB		AB		AB		AB		**-2.65E-01**	
	MW-5B	26 - 35.5	30.50																	
MW-6	MW-6A	5 - 15	11.02	23.98	-2.08E-01	-1.91E-01	-2.18E-01	-1.93E-01	-1.82E-01	-1.48E-01	-1.86E-01	-1.62E-01	-2.18E-01	-1.55E-01	-1.96E-01	-1.44E-01	-1.67E-01	-1.25E-01	**-2.01E-01**	**-1.60E-01**
	MW-6B	30 - 40	35.00																	
MW-7	MW-7A	5 - 15	11.06	23.94	-2.01E-01		-2.03E-01		AB		AB		AB		AB		AB		**-2.02E-01**	
	MW-7B	30 - 40	35.00																	
MW-16	MW-16A	8 - 18	13.75	29.25	NI		NI		NI		NI		-3.86E-02		-1.88E-02		-3.45E-02		**-2.87E-02**	
	MW-16B	38 - 48	43.00																	
MW-17	MW-17A	8 - 18	13.00	28.00	NI		NI		NI		NI		-1.27E-01		-1.10E-01		-1.24E-01		**-1.18E-01**	
	MW-17B	36 - 46	41.00																	
MW-18	MW-18A	8 - 18	13.00	24.00	NI		NI		NI		NI		-2.15E-01		-1.50E-01		-1.66E-01		**-1.83E-01**	
	MW-18B	32 - 42	37.00																	
MW-19	MW-19A	8 - 23	15.50	17.50	NI		NI		NI		NI		-2.23E-01		-2.38E-01		NA		**-2.31E-01**	
	MW-19B	28 - 38	33.00																	
Intermediate to Deep																				
MW-1	MW-1B	30 - 40	35.00	40.00	0.00E+00		7.50E-04		-7.50E-04		1.00E-03		1.25E-03		5.00E-04		9.50E-03		**4.58E-04**	
	MW-1C	70 - 80	75.00																	
MW-3	MW-3B	30 - 40	35	37	2.08E-02		2.92E-02		AB		AB		AB		AB		AB		**2.50E-02**	
	MW-3C	67 - 77	72																	
MW-4	MW-4B	30 - 40	35	45	2.63E-02		2.98E-02		-4.44E-04		2.44E-02		AB		AB		AB		**2.00E-02**	
	MW-4C	75 - 85	80																	
MW-11	MW-11B	33 - 43	38	57	NI		NI		7.72E-03		3.47E-02		2.18E-02		2.14E-02		1.84E-02		**2.14E-02**	
	MW-11C	90 - 100	95																	
MW-12	MW-12B	28 - 38	33	48	NI	1.57E-02	NI	1.99E-02	7.71E-03	3.56E-03	3.10E-02	2.28E-02	1.17E-02	1.39E-02	-4.25E-02	7.63E-03	1.42E-02	1.46E-02	**1.98E-03**	**1.40E-02**
	MW-12C	76 - 86	81																	
MW-16	MW-16B	38 - 48	43	60	NI		NI		NI		NI		1.63E-02		2.23E-02		1.88E-02		**1.93E-02**	
	MW-16C	98 - 108	103																	
MW-17	MW-17B	36 - 46	41	64	NI		NI		NI		NI		1.27E-02		1.33E-02		1.44E-02		**1.30E-02**	
	MW-17C	100 - 110	105																	
MW-18	MW-18B	32 - 42	37	65	NI		NI		NI		NI		1.17E-02		1.66E-02		1.25E-02		**1.42E-02**	
	MW-18C	97 - 107	102																	
MW-19	MW-19B	28 - 38	33	50	NI		NI		NI		NI		2.20E-02		2.18E-02		NA		**2.19E-02**	
	MW-19C	78 - 88	83																	
Shallow to Deep																				
MW-1	MW-1A	5 - 15	11.25	63.75	-3.50E-02		-3.98E-02		-3.92E-02		-4.02E-02		-3.98E-02		-3.78E-02		-3.07E-02		**-3.86E-02**	
	MW-1C	70 - 80	75																	
MW-3	MW-3A	5 - 15	10.46	61.54	-5.98E-02		-5.31E-02		AB		AB		AB		AB		AB		**-5.65E-02**	
	MW-3C	67 - 77	72																	
MW-4	MW-4A	2.5 - 12.5	9.63	70.37	-5.36E-02		-4.97E-02		AB		AB		AB		AB		AB		**-5.17E-02**	
	MW-4C	75 - 85	80																	
MW-16	MW-16B	8 - 18	13.75	89.2525	NI	-4.95E-02	NI	-4.76E-02	NI	-3.92E-02	NI	-4.02E-02	-1.68E-03	-3.25E-02	8.85E-03	-2.54E-02	1.34E-03	-2.32E-02	**3.59E-03**	**-3.68E-02**
	MW-16C	98 - 108	103																	
MW-17	MW-17B	8 - 18	13.00	92	NI		NI		NI		NI		-2.98E-02		-2.41E-02		-2.77E-02		**-2.70E-02**	
	MW-17C	100 - 110	105																	
MW-18	MW-18B	8 - 18	13.00	89	NI		NI		NI		NI		-4.94E-02		-2.83E-02		-3.56E-02		**-3.89E-02**	
	MW-18C	97 - 107	102																	
MW-19	MW-19B	8 - 23	15.50	67.5	NI		NI		NI		NI		-4.16E-02		-4.56E-02		NA		**-4.36E-02**	
	MW-19C	78 - 88	83																	

Notes:
bgs - below groundsurface
ft - feet
NI - Well Not Installed
NA - Not Available / Not Measured
AB - Well Abandoned / Destroyed
NAVD88 - North Americanl Vertical Datum of 1988

* - For water tables wells (A), screen midpoint has been replaced by well water column midpoint.
Negative numbers indicate downward vertical gradients.

Table 5-1
Summary of Remedial Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-1C/MW-1C	Vandervoort Ave	Off-Site	National Grid (AECOM)	11/24/2009	12.86	0	77		None
					12.86	77	78		Moderate to light sheen and naphthalene-like odor
					12.86	78	80		One inch NAPL saturated lenses
					12.86	80	82		NAPL blebs
					12.86	82	82.2		NAPL saturated 1.5 inch lens, residual NAPL, light sheen, naphthalene-like odor
					12.86	82.2	83		Residual NAPL
					12.86	83	83.5		Light naphthalene-like odor
					12.86	83.5	83.6		Very thin (<1mm) NAPL saturated lense
					12.86	83.6	85		Light naphthalene-like odor
					12.86	85	87.9		Moderate sheen, NAPL blebs, naphthalene-like odor
					12.86	87.9	88.15		0.33" NAPL saturated lenses
					12.86	88.15	90		Light sheen, light naphthalene-like odor, few NAPL blebs
					12.86	90	95		None
					12.86	95	96.5		Slight naphthalene-like odor
					12.86	96.5	100		None
SB-2B/MW-2B	252 Maspeth Ave	On-Site	National Grid (AECOM)	10/15/2009	12.41	0	10		None
					12.41	10	12		Moderate sheen and naphthalene-like odor
					12.41	12	14		Strong naphthalene-like odor, some dark NAPL blebs
					12.41	14	16		Moderate naphthalene-like odor, some black staining
					12.41	16	18		Strong naphthalene-like odor, NAPL coated 1.8' lens, one inch lens of dark NAPL blebs
					12.41	18	28		None
					12.41	28	29		Light naphthalene-like odor
					12.41	29	32		1/4" NAPL saturated lenses
					12.41	32	37		None
					12.41	37	37.5		1/2" NAPL saturated lens
					12.41	37.5	52		None
SB-3B/MW-3B	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/21/2009	12.12	0	10		None
					12.12	10	12		Moderate sheen, moderate naphthalene-like odor, some NAPL coating
					12.12	12	14		Spotty heavy sheen, moderate naphthalene-like odor
					12.12	14	17		Partial dark brown NAPL coating on some plant fibers, trace naphthalene-like odor
					12.12	17	27		None
					12.12	27	27.5		NAPL coating
					12.12	27.5	28		1/4" NAPL saturated lenses, heavy sheen
					12.12	28	28.5		NAPL coated grains and heavy sheen
					12.12	28.5	29		NAPL saturated
					12.12	29	30		Blebs, globs, lenses, coatings
					12.12	30	32		1/4" beds saturated with NAPL
					12.12	32	33		naphthalene like odors
					12.12	33	33.5		1/8" beds saturated with NAPL
					12.12	33.5	35		Strong naphthalene like odor
					12.12	35	38		NAPL saturated
					12.12	38	40		1/8"-1" NAPL saturated beds
					12.12	40	42		Strong naphthalene-like odor
					12.12	42	48		None
SB-3C/MW-3C	254 Maspeth Ave	On-Site	National Grid (AECOM)	11/2/2009	12.06	48	68.25		None
					12.06	68.25	68.35		Dark brown to black staining and moderate naphthalene-like odor
					12.06	68.35	70		None
					12.06	70	72		Trace naphthalene-like odor
					12.06	72	80		None
SB-4	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/24/2009	12.94	0	1		None
					12.94	1	3		Some solidified NAPL, strong naphthalene-like odor
					12.94	3	5		Some blebs of very viscous NAPL
SB-4C/MW-4C	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/12/2009	12.94	0	8		None
					12.94	8	8.2		Solidified NAPL
					12.94	8.2	10		None
					12.94	10	12		Black stained, moderate fuel-like odor
					12.94	12	16		None
					12.94	16	18		Light fuel-like odor
					12.94	18	20		Black stained, moderate fuel-like odor
					12.94	20	36		None
					12.94	36	38		Trace naphthalene-like odor
					12.94	38	42		None
					12.94	42	44		Light naphthalene-like odor
					12.94	44	78		None
					12.94	78	80		Light naphthalene-like odor
					12.94	80	87		None

Table 5-1
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Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-5B/MW-5B	252 Maspeth Ave	On-Site	National Grid (AECOM)	9/29/2009	14.69	0	5		None
					14.69	5	6		Black staining
					14.69	6	11		None
					14.69	11	12		Naphthalene-like odor
					14.69	12	14		Black stained
					14.69	14	16		Strong naphthalene-like odor, 35% to 5% NAPL blebs
					14.69	16	17.3		Strong naphthalene-like odor
					14.69	17.3	17.5		NAPL blebs
					14.69	17.5	18		Strong naphthalene-like odor
					14.69	18	20		Some NAPL
					14.69	20	26		None
					14.69	26	27		Strong naphthalene-like odor, lenses of NAPL
					14.69	27	28		Strong naphthalene-like odor
					14.69	28	28.5		None
					14.69	28.5	29		0.5" thick band of NAPL
					14.69	29	30		None
					14.69	30	34.5		Moderate sheen throughout, spots of heavy sheen
					14.69	34.5	35		NAPL
					14.69	35	36		Slight naphthalene-like odor
					14.69	36	40		None
					14.69	40	43		Slight naphthalene-like odor
					14.69	43	43.5		Lenses saturated with low viscosity NAPL
					14.69	43.5	47		Lenses saturated with NAPL
					14.69	47	58		None
SB-6B/MW-6B	Vandervoort Ave	Off-Site	National Grid (AECOM)	11/30/2009	13.22	0	13		None
					13.22	13	16		Light petroleum-like odor
					13.22	16	18		Moderate petroleum-like odor, moderate sheen
					13.22	18	55		None
SB-7A	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/5/2009	12.51	0	1		None
					12.51	1	3		Slight naphthalene-like odor
					12.51	3	4		None
					12.51	4	5		Slight hydrocarbon-like odor, 1 spot of sheen
					12.51	5	8.17		None
SB-7B	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/27/2009	12.77	0	27		None
					12.77	27	45		Moderate/Slight naphthalene-like odor
					12.77	45	46		None
SB-8	222 Maspeth Ave	On-Site	National Grid (AECOM)	10/18/2009	13.20	0	6		None
					13.20	6	8		Black staining, moderate naphthalene-like odor
					13.20	8	10		Some black staining
					13.20	10	12		Black staining, sheen, and naphthalene-like odor, trace NAPL
					13.20	12	14		Light sheen and moderate naphthalene-like odor
					13.20	14	18		Moderate hydrocarbon-like sheen and naphthalene like odor
					13.20	18	20		Slight naphthalene-like odor
					13.20	20	22		Trace sheen and naphthalene like odor
					13.20	22	24		Moderate naphthalene-like odor
					13.20	24	26.1		Saturated with viscous, tacky, black NAPL
SB-9	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/27/2009	13.04	0	7.2		None
					13.04	7.2	9.3		Black stained, naphthalene-like odor
					13.04	9.3	10		Strong naphthalene -like odor, heavy sheen, NAPL blebs from 9.8'-10'
					13.04	10	12		Strong naphthalene-like odor, heavy sheen, trace NAPL blebs
					13.04	12	14		Trace NAPL blebs, little spots of sheen
					13.04	14	14.7		Strong naphthalene-like odor, heavy sheen, some NAPL blebs
					13.04	14.7	16		Some non-viscous NAPL
					13.04	16	25		None
					13.04	25	26		Strong naphthalene-like odor, heavy sheen, trace NAPL
					13.04	26	28		Heavy sheen, NAPL saturated lenses
					13.04	28	29		Trace sheen
					13.04	29	35		None
					13.04	35	35.8		NAPL saturated
					13.04	35.8	36.8		None
					13.04	36.8	37.5		NAPL saturated
					13.04	37.5	50		None
SB-10	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/27/2009	12.74	0	11.5		None
					12.74	11.5	12		Trace naphthalene-like odor
					12.74	12	14		Black stained, acrid odor
					12.74	14	16		Black stained viscous NAPL at 14.5', strong naphthalene-like odor
					12.74	16	19		NAPL saturated
					12.74	19	25		None
					12.74	25	26		Bands of NAPL coating, strong naphthalene-like odor
					12.74	26	28		NAPL coated, 1" NAPL saturated lenses at 26' (viscous) and 27' (non-viscous)
					12.74	28	30		1" NAPL saturated lenses
					12.74	30	32		NAPL lenses
					12.74	32	32.5		Strong naphthalene-like odor, viscous NAPL saturated lens
					12.74	32.5	33		Strong naphthalene-like odor
					12.74	33	36		None
					12.74	36	38		0.5" to 1" NAPL saturated lenses
					12.74	38	40		NAPL saturated

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Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-10 (continued)	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/27/2009	12.74	40	41.5		Thick NAPL lenses
					12.74	41.5	44		None
					12.74	44	46		NAPL saturated sand beds
					12.74	46	48		None
SB-11	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/6/2009	13.61	0	12		None
					13.61	12	14.5		Moderate naphthalene-like odor
					13.61	14.5	16		None
					13.61	16	17.9		Strong to moderate naphthalene-like odor
					13.61	17.9	18		NAPL coating
					13.61	18	26		None
					13.61	26	28		Naphthalene-like odor, sheen, lenses of NAPL
					13.61	28	30		Strong naphthalene like odor
					13.61	30	32		Strong naphthalene-like odor, saturated with non-viscous reddish brown NAPL from 30'-30.4'
					13.61	32	32.5		Saturated with NAPL
					13.61	32.5	35		Slight naphthalene-like odor
					13.61	35	37.5		Moderate naphthalene-like odor, NAPL at 36.5'
					13.61	37.5	37.8		NAPL saturated lenses
					13.61	37.8	38		Moderate naphthalene like odor
					13.61	38	40		Sand beds saturated with NAPL
					13.61	40	40.5		NAPL saturated grains
					13.61	40.5	41		None
					13.61	41	41.5		Saturated with NAPL
					13.61	41.5	42		None
					13.61	42	44.25		Saturated with NAPL
					13.61	44.25	49		None
					13.61	49	50		Strong naphthalene-like odor
					13.61	50	52		None
					13.61	52	53		Sand beds saturated with NAPL
					13.61	53	64		None
SB-12A	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/1/2009	12.66	0	4.3		None
					12.66	4.3	4.5		NAPL lens
					12.66	4.5	8		None
					12.66	8	11		Stained black, trace sheen
					12.66	11	12.2		NAPL coating
SB-12B	254 Maspeth Ave	On-Site	National Grid (AECOM)	11/3/2009	12.28	0	12		None
					12.28	12	16		Strong fuel-like odor, slight sheen
					12.28	16	18		Strong fuel-like odor
					12.28	18	30		None
					12.28	30	34		Slight naphthalene-like odor
					12.28	34	36		Slight naphthalene-like odor, slight sheen at 34'
					12.28	36	40		Very slight/Slight naphthalene-like odor
					12.28	40	42		Strong naphthalene like odor, NAPL saturated lenses
					12.28	42	44		Slight naphthalene like odor, trace spots of hydrocarbon-like sheen
					12.28	44	46		Moderate naphthalene-like odor
					12.28	46	54		None
SB-13	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/27/2009	12.98	0	8		None
					12.98	8	14		Strong naphthalene-like odor, heavy sheen
					12.98	14	16		Residual NAPL, NAPL saturated at 16'
					12.98	16	18		NAPL saturated
					12.98	18	20	NR	No recovery
					12.98	20	22		NAPL saturated
					12.98	24	25.5		Residual NAPL
SB-14A	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/27/2009	12.75	0	5.5		None
SB-14B/GW-1	222 Maspeth Ave	On-Site	National Grid (AECOM)	10/17/2009	12.88	0	11		None
					12.88	11	13		Residual NAPL
					12.88	13	15	NR	No recovery
					12.88	15	15.2		NAPL saturated
					12.88	15.2	18.5		None
					12.88	18.5	19		NAPL saturated
					12.88	19	24.5		None
					12.88	24.5	26		Strong naphthalene like odor, residual NAPL
					12.88	26	27.5		Heavy sheen
					12.88	27.5	28		NAPL saturated
					12.88	28	30		Strong naphthalene-like odor, NAPL saturated lenses
					12.88	30	32		Heavy sheen, NAPL coating 30'-30.25', and NAPL saturated lens at 30.25'
					12.88	32	34		Strong naphthalene-like odor, NAPL saturated lens at 32.25'
					12.88	34	38		None
					12.88	38	44		NAPL saturated
					12.88	44	56		None

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Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-15	252 Maspeth Ave	On-Site	National Grid (AECOM)	9/29/2009	11.91	0	8		None
					11.91	8	10		Moderate to light naphthalene-like odor
					11.91	10	12		Trace solidified NAPL, moderate sheen, moderate to strong naphthalene-like odor
					11.91	12	16.5		Viscous NAPL blebs throughout, strong naphthalene-like odor
					11.91	16.5	18		Strong naphthalene-like odor, trace NAPL coating
					11.91	18	24		None
					11.91	24	26		Thick NAPL lenses and strong naphthalene-like odor
					11.91	26	30		Moderate sheen, NAPL blebs throughout
					11.91	30	32		Lenses of NAPL coated sand
					11.91	32	36.25		Lenses of NAPL saturated sand
					11.91	36.25	38.5		None
					11.91	38.5	38.7		NAPL saturated
					11.91	38.7	40		None
					11.91	40	42		Light naphthalene-like odor
					11.91	42	54		None
SB-16A	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/7/2009	13.25	0	2		None
					13.25	2	3		Light naphthalene-like odor
					13.25	3	8		None
					13.25	8	10		Black stained, moderate sheen, moderate naphthalene-like odor
					13.25	10	12		Strong naphthalene-like odor
					13.25	12	15.5		None
SB-16B	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/20/2009	13.25	0	20		None
					13.25	20	23		NAPL coating on plant fibers
					13.25	23	24		None
					13.25	24	26		NAPL coated
					13.25	26	30		NAPL coated with lenses of NAPL saturated
					13.25	30	32		NAPL coated with lenses of NAPL saturated, heavy sheen
					13.25	32	34		NAPL saturated
					13.25	34	34.25		NAPL coated with lenses of NAPL saturated
					13.25	34.25	40		Light/Moderate naphthalene-like odor
					13.25	40	54		None
SB-16C	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/24/2011	12.94	0	1.5		Slight naphthalene-like odor
					12.94	1.5	10		None
					12.94	10	13		Moderate naphthalene-like odor
					12.94	13	15		NAPL coated
					12.94	15	20		Slight naphthalene-like odor, NAPL sheen, small NAPL blebs on bag of water
					12.94	20	23		NAPL coated plant fibers, NAPL and organic-like odors
					12.94	23	25		NAPL coated
					12.94	25	35		Moderate naphthalene-like odor, NAPL coated grains
					12.94	35	36		NAPL saturated, strong naphthalene-like odor
					12.94	36	37.5		Pockets of NAPL saturation
					12.94	37.5	50		Slight naphthalene-like odor
					12.94	50	65		None
					12.94	65	74		Slight/Moderate naphthalene-like odor
					12.94	74	75		Moderate NAPL like odor, NAPL saturated grains
					12.94	75	77.5		NAPL saturated
					12.94	77.5	79		None
					12.94	79	82		NAPL saturated
					12.94	82	85		Lenses of NAPL saturation
					12.94	85	90		None
					12.94	90	95		Moderate naphthalene-like odor
					12.94	95	105		None
SB-7/MW-17B	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/22/2009	12.82	0	8		None
					12.82	8	10		Oily blebs, spotty heavy sheen, fuel-like odor
					12.82	10	17		Oil coating
					12.82	17	18		NAPL saturated lens
					12.82	18	36		None
					12.82	36	38		NAPL saturated beds
					12.82	38	50		none
SB-18	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/6/2009	12.45	0	8		None
					12.45	8	10		Light sheen in tip, moderate naphthalene-like odor
					12.45	10	15.5		Spotty sheen, strong naphthalene-like odor
					12.45	15.5	25.2		None
					12.45	25.2	29.5		Strong naphthalene-like odor
					12.45	29.5	31		None
					12.45	30	31		Moderate naphthalene like odor
					12.45	31	32		Black stained lens, light sheen, naphthalene-like odor
					12.45	32	41		Faint naphthalene-like odor
					12.45	41	42		None
					12.45	42	43.5		Moderate naphthalene-like odor
					12.45	43.5	48		None
					12.45	48	50		Faint naphthalene-like odor
					12.45	50	52		None

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Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-19	222 Maspeth Ave	On-Site	National Grid (AECOM)	11/6/2011	12.92	0	2		None
					12.92	2	5		Slight naphthalene-like odor
					12.92	5	10		None
					12.92	10	17		Slight/Strong naphthalene-like odor
					12.92	17	18		Heavily NAPL coated
					12.92	18	19.5		Strong naphthalene-like odor
					12.92	19.5	25		None
					12.92	25	27.5		Strong naphthalene-like odor, few NAPL coated grains
					12.92	27.5	27.7		Strong NAPL like odor
					12.92	27.7	28.1		NAPL coated
					12.92	28.1	30		Strong/Moderate NAPL like odor
					12.92	30	32.5		Strong naphthalene-like odor, pockets of NAPL coated sand
					12.92	32.5	44		Slight/Moderate NAPL like odor
					12.92	44	44.5		NAPL saturated
					12.92	44.5	45		Moderate naphthalene-like odor
					12.92	45	50		None
					12.92	50	60		Strong naphthalene-like odor
					12.92	60	70		None
					12.92	70	80		Moderate naphthalene-like odor
					12.92	80	100		none
SB-20/MW-A,B,C	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/26/2011	12.81	0	0.5		None
					12.81	0.5	2		Stained, naphthalene-like odor, pieces of solid NAPL
					12.81	2	10		None
					12.81	10	15		Slight fuel-like odor
					12.81	15	18.5		NAPL coated
					12.81	18.5	24		None
					12.81	24	25		Slight fuel-like odor
					12.81	25	27		None
					12.81	27	30		Slight fuel-like odor
					12.81	30	40	NR	No recovery
					12.81	40	45		naphthalene-like odor
					12.81	45	50		None
					12.81	50	55	NR	No recovery
					12.81	55	61.5		None
					12.81	61.5	63.5		naphthalene-like odor
					12.81	63.5	65		Trace blebs of NAPL, some naphthalene-like odors
					12.81	65	70		Naphthalene-like odor
SB-20/MW-A,B,C (continued)	222 Maspeth Ave	On-Site	National Grid (AECOM)	9/26/2011	12.81	70	73		Trace NAPL, strong naphthalene-like odor
					12.81	73	75		NAPL saturated lenses, NAPL observed
					12.81	75	80		Strong NAPL odor, lenses of NAPL saturation
					12.81	80	81		naphthalene-like odor
					12.81	81	85		None
					12.81	85	100	NR	No recovery
					12.81	100	105	NR	No recovery
					12.81	105	110	ND	Not documented
SB-20J	222 Maspeth Ave	On-Site	National Grid (AECOM)	7/22/2012	12.80	0	5		None
					12.80	5	15		Moderate/Slight naphthalene-like odor
					12.80	15	25		None
					12.80	25	37		Slight/Moderate/Strong naphthalene-like odor
					12.80	37	55		None
					12.80	55	70		Coated with NAPL, strong naphthalene-like odor
					12.80	70	75		Strong naphthalene-like odor
					12.80	75	80		Coated with NAPL, strong naphthalene-like odor
					12.80	80	250		None
SB-21/MW-14B	252 Maspeth Ave	On-Site	National Grid (AECOM)	9/21/2011	14.53	0	5		None
					14.53	5	10		Black coated, petroleum-like odors
					14.53	10	15		Naphthalene-like odor
					14.53	15	20		NAPL coated, pieces of low viscous NAPL, naphthalene-like odors
					14.53	20	22		Blebs
					14.53	22	27		None
					14.53	27	30		Slight petroleum-like odor
					14.53	30	33		NAPL coated
					14.53	33	38		Naphthalene-like odor
					14.53	38	39		None
					14.53	39	40		Coated
					14.53	40	43		NAPL observed, NAPL coated, naphthalene-like odor
					14.53	43	47.5		Naphthalene-like odor
					14.53	47.5	63		None
					14.53	63	75		Some naphthalene-like odors
					14.53	75	80		Slight naphthalene-like odor
					14.53	80	84		Slight petroleum-like odor
					14.53	84	90		None
					14.53	90	95		Slight petroleum-like odor
					14.53	95	110		None

Table 5-1
Summary of Remedial Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-22	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/21/2011	12.64	0	2		Stained, slight petroleum-like odor
					12.64	2	3		Stained
					12.64	3	4		Stained, slight fuel-like odor
					12.64	4	5		Slightly stained
					12.64	5	10		None
					12.64	10	15		naphthalene-like odor
					12.64	15	21		Slight sheen, naphthalene-like odor
					12.64	21	25.5		None
					12.64	25.5	40		naphthalene-like odor
					12.64	40	80		None
					12.64	80	83		Slight naphthalene-like odor
					12.64	83	84		Black staining
					12.64	84	84.1		NAPL saturated
SB-22 (continued)	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/21/2011	12.64	84.1	85		Slight naphthalene-like odor
					12.64	85	86		Trace NAPL saturation
					12.64	86	89.5		NAPL saturated (NAPL observed)
					12.64	89.5	90		Lenses of NAPL saturation
					12.64	90	92.5		Heavy NAPL saturation, NAPL observed
					12.64	92.5	94		Slight naphthalene-like odor
					12.64	94	110		None
SB-23/MW-09C	Vandervoort Ave	Off-Site	National Grid (AECOM)	10/25/2011	12.20	0	5		None
					12.20	5	7		Slight naphthalene-like odor
					12.20	7	13		None
					12.20	13	14		Slight naphthalene-like odor
					12.20	14	19		NAPL stained, naphthalene-like odor
					12.20	19	100		None
SB-24/MW-10C	Vandervoort Ave	Off-Site	National Grid (AECOM)	10/25/2011	13.05	0	98.5		None
					13.05	98.5	99		naphthalene-like odor, NAPL sheen
					13.05	99	104		Slight naphthalene-like odor
					13.05	104	110		None
SB-25/MW-11B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/23/2012	11.13	0	110		None
SB-26/MW-12B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/26/2012	10.94	0	75		None
					10.94	75	86.5		Slight naphthalene-like odor
					10.94	86.5	105		None
SB-27	Green Point	Off-Site	National Grid (AECOM)	1/11/2013	14.00	0	17.2		None
					14.00	17.2	17.6		NAPL saturated
					14.00	17.6	18.3		Strong naphthalene-like odor
					14.00	18.3	18.8		Coated with NAPL
					14.00	18.8	20		None
					14.00	20	21		Small pockets of dark NAPL
					14.00	21	33.6		None
					14.00	33.6	33.9		Stained with NAPL
					14.00	33.9	34.3		None
					14.00	34.3	36		Saturated with NAPL
					14.00	36	42		None
					14.00	42	43		Moderate naphthalene-like odor
					14.00	43	80		None
					14.00	80	86		Saturated with NAPL
					14.00	86	88.5		Small stringers of NAPL visible, moderate naphthalene-like odor
					14.00	88.5	100		None
SB-28	Green Point	Off-Site	National Grid (AECOM)	1/10/2013	13.41	0	12.7		None
					13.41	12.7	12.9		Coated with NAPL
					13.41	12.9	16		None
					13.41	16	23		Slight naphthalene-like odor
					13.41	23	100		None
SB-29/MW-15B	252 Maspeth Ave	On-Site	National Grid (AECOM)	9/21/2011	12.89	0	8		Petroleum-like odors
					12.89	8	10		Naphthalene-like odor
					12.89	10	15		coated with NAPL, naphthalene like odors
					12.89	15	17		Stained
					12.89	17	18		Coated with NAPL
					12.89	18	20		Intermittent staining
					12.89	20	21		NAPL coating

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Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-29/MW-15B (continued)	252 Maspeth Ave	On-Site	National Grid (AECOM)	9/21/2011	12.89	21	23		NAPL observed, naphthalene-like odors detected
					12.89	23	25		None
					12.89	25	30		Some naphthalene-like odors
					12.89	30	35		Traces of NAPL, naphthalene-like odor
					12.89	35	38.5		Slight naphthalene-like odor
					12.89	38.5	40		Stained with trace NAPL
					12.89	40	41		None
					12.89	41	43		NAPL saturated, naphthalene-like odor
					12.89	43	45		None
					12.89	45	47.5		Specs of NAPL observed
					12.89	47.5	55		None
					12.89	55	60		Slight naphthalene-like odor
					12.89	60	63		None
					12.89	63	65		Stained and NAPL coated
					12.89	65	69		Naphthalene-like odors
					12.89	69	70		Trace deposits of stained sand, slight naphthalene-like odor
					12.89	70	73		None
					12.89	73	75		Slight naphthalene-like odor
					12.89	75	80		Slightly saturated, strong naphthalene-like odor, trace NAPL to NAPL observed
					12.89	80	81		NAPL saturation and NAPL observed
					12.89	81	91		None
					12.89	91	92.5		Stained, slight naphthalene-like odor
					12.89	92.5	96		None
					12.89	96	96.25		Stained, slight naphthalene-like odor, trace sheen
					12.89	96.25	105		None
SB-30	222 Maspeth Ave	On-Site	National Grid (AECOM)	10/29/2011	12.54	0	3		None
					12.54	3	5		Slight naphthalene-like odor
					12.54	5	10	NR	No recovery
					12.54	10	15		Slight naphthalene-like odor, few NAPL coated grains
					12.54	15	20	NR	No recovery
					12.54	20	26		None
					12.54	26	26.2		Slight naphthalene-like odor, NAPL coated
					12.54	26.2	35		None
					12.54	35	35.5		NAPL blebs
					12.54	35.5	78.5		Moderate/Slight naphthalene-like odor
					12.54	78.5	79		naphthalene-like odor, NAPL sheen
					12.54	79	80.5		Strong/Slight naphthalene-like odor
					12.54	80.5	95		None
SB-31	7/9 Rewe St	Off-Site	National Grid (AECOM)	7/16/2012	13.05	0	27		None
					13.05	27	32		Moderate naphthalene-like odor
					13.05	32	35		Coated with NAPL, strong naphthalene-like odor
					13.05	35	36		Slight naphthalene-like odor
					13.05	36	100		None
SB-32	Vandervoort Ave	Off-Site	National Grid (AECOM)	1/8/2013	12.45	0	100		None
SB-33	Green Point	Off-Site	National Grid (AECOM)	1/15/2013	15.27	0	8		None
					15.27	8	10		Slight naphthalene-like odor
					15.27	10	30		None
					15.27	30	32		Strong naphthalene-like odor
					15.27	32	34		NAPL blebs
					15.27	34	36		NAPL saturated
					15.27	36	48		None
					15.27	48	48.4		Coated with NAPL
					15.27	48.4	100		None
SB-34	Green Point	Off-Site	National Grid (AECOM)	1/21/2013	15.09	0	100		None
SB-35	Green Point	Off-Site	National Grid (AECOM)	1/22/2013	16.19	0	16		None
					16.19	16	19		Moderate naphthalene-like odor
					16.19	19	20		None
					16.19	20	25		Slight naphthalene-like odor
					16.19	25	50		None
SB-36/MW-16B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/8/2013	11.82	0	98		None
					11.82	98	110		Slight naphthalene-like odor
					11.82	110	114.6		None
SB-37/MW-17B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/10/2013	11.88	0	120		None
SB-38/MW-18B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/12/2013	11.85	0	120		None
SB-39/MW-19B,C	300 Maspeth Ave	Off-Site	National Grid (AECOM)	7/14/2013	9.90	0	20		None
					9.90	20	23.3		Strong mothball odor
					9.90	23.3	100		None

Table 5-1
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Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
SB-40	1 Rewe St	Off-Site	National Grid (AECOM)	4/1/2015	16.86	0	15		None
					16.86	15	19.5		Stained with NAPL, moderate naphthalene-like odor
					16.86	19.5	20		Small pockets of NAPL, stained with NAPL, strong naphthalene-like odor
					16.86	20	23.5		Coated to saturated with NAPL, strong naphthalene-like odor
					16.86	23.5	27		Slight to strong naphthalene-like odor
					16.86	27	27.5		1/8" Seam of NAPL at 27 ft
					16.86	27.5	28.5		Strong naphthalene-like odor
					16.86	28.5	30		None
					16.86	30	35		Slight naphthalene-like odor
					16.86	35	36		None
					16.86	36	42		Moderate naphthalene-like odor and 1/8" NAPL seams at 38.5, 39.5, 42
					16.86	42	55		Slight naphthalene-like odor
SB-41	1 Rewe St	Off-Site	National Grid (AECOM)	4/1/2015	15.84	0	28.5		None
					15.84	28.5	32.5		Stained/coated with NAPL, strong naphthalene-like odor
					15.84	32.5	34.5		Slight naphthalene-like odor
					15.84	34.5	37		Stained/coated with NAPL, strong naphthalene-like odor
					15.84	37	45		None
SB-42	1 Rewe St	Off-Site	National Grid (AECOM)	3/30/2015	15.74	0	50		None
SB-43	7/9 Rewe St	Off-Site	National Grid (AECOM)	3/26/2015	14.30	0	13		None
					14.30	13	14		Slight petroleum odor
					14.30	14	38.5		None
					14.30	38.5	43		Coated with NAPL, sheen
					14.30	43	48		Saturated with NAPL, strong naphthalene-like odor
					14.30	48	50		Slight naphthalene-like odor
SB-44	7/9 Rewe St	Off-Site	National Grid (AECOM)	3/27/2015	14.57	0	12.5		None
					14.57	12.5	19		Moderate to slight naphthalene-like odor
					14.57	19	50		None
SB-45	7/9 Rewe St	Off-Site	National Grid (AECOM)	4/29/2015	14.08	0	17		None
					14.08	17	18		Sheen and moderate petroleum like odor
					14.08	18	25		None
					14.08	25	27		Sheen and slight petroleum like odor
					14.08	27	28		None
					14.08	28	45		Slight/Very slight NAPL like odor
					14.08	45	55		None
SB-46	7/9 Rewe St	Off-Site	National Grid (AECOM)	5/1/2015	14.55	0	11		None
					14.55	11	18		Strong/Slight petroleum like odor
					14.55	18	50		None
SB-47	7/9 Rewe St	Off-Site	National Grid (AECOM)	4/30/2015	14.48	0	14		none
					14.48	14	15		Slight/Moderate petroleum like odor
					14.48	17	19		None
					14.48	19	20		Moderate NAPL like odor
					14.48	20	50		None
T1-SB1	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/22/2014	11.01	0	30		None
T1-SB2	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/22/2014	11.02	0	30		None
T1-SB3	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/22/2014	11.00	0	30		None
T1-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/22/2014	10.89	0	10		None
					10.89	10	20		Slight naphthalene-like odor
					10.89	20	21		Sheen, slight naphthalene-like odor
					10.89	21	30		None
T1-SB5	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.80	0	25		None
T1-SB6	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.85	0	15		None
					10.85	15	17.5		Slight naphthalene-like odor
					10.85	17.5	25		None
T1-SB7	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.88	0	15		None
					10.88	15	17		Strong naphthalene-like odor
					10.88	17	17.5		Coated with NAPL, strong naphthalene-like odor
					10.88	17.5	19		Small stringers of NAPL, strong naphthalene-like odor
					10.88	19	25		None
T1-SB8	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.79	0	10		None
					10.79	10	18		Strong naphthalene-like odor
					10.79	18	18.5		Saturated with NAPL
					10.79	18.5	21		NAPL stringers, strong naphthalene like odor
					10.79	21	25		None
T1-SB9	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.82	0	15		None
					10.82	15	18		Coated with NAPL, strong naphthalene-like odor
					10.82	15	25		None
T1-SB10	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/21/2014	10.74	0	9		None
					10.74	9	10		Strong naphthalene-like odor
					10.74	10	21		Sheen, moderate naphthalene-like odor
					10.74	21	25		None

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Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
T2-SB1	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	10.97	0	9		None
					10.97	9	15		Strong naphthalene-like odor
					10.97	15	20		Numerous NAPL blebs, strong naphthalene-like odor, sleeve stained yellow
					10.97	20	25		None
T2-SB2	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	11.25	0	9		None
					11.25	9	10		Strong naphthalene-like odor
					11.25	10	15	NR	No recovery
					11.25	15	20		Strong naphthalene-like odor
					11.25	20	25		None
T2-SB3	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	11.19	0	9		None
					11.19	9	15		Sheen, strong naphthalene-like odor
					11.19	15	17.5		Strong naphthalene-like odor
					11.19	17.5	25		None
T2-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	11.20	0	10		None
					11.20	10	15		Strong naphthalene-like odor
					11.20	15	25		None
T2-SB5	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	11.29	0	25		None
T3-SB1	7/9 Rewe St	Off-Site	National Grid (AECOM)	5/20/2014	9.97	0	25		None
T3-SB2	7/9 Rewe St	Off-Site	National Grid (AECOM)	5/20/2014	10.03	0	25		None
T3-SB3	7/9 Rewe St	Off-Site	National Grid (AECOM)	5/20/2014	10.32	0	7.5		None
					10.32	7.5	7.7		Coal layer with slight naphthalene-like odor
					10.32	7.7	30		None
T3-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	10.38	0	9		None
					10.38	9	10		Moderate naphthalene-like odor
					10.38	10	17		Sheen, no odor
					10.38	17	30		None
T3-SB5	300 Maspeth Ave	Off-Site	National Grid (AECOM)	5/20/2014	10.38	0	9		None
					10.38	9	10		Slight naphthalene-like odor
					10.38	10	17		Sheen, no odor
					10.38	17	25		None
T4-SB1	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/21/2014	11.41	0	30		None
T4-SB2	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/21/2014	11.40	0	30		None
T4-SB3	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/20/2014	11.41	0	30		None
T4-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/20/2014	11.26	0	30		None
T4-SB5	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/20/2014	11.14	0	8		None
T4-SB6	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/20/2014	11.04	0	8		None
T5-SB1	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/17/2014	11.42	0	14		None
					11.42	14	16		Stained black, slight fuel-like odor
					11.42	16	30		None
T5-SB2	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/15/2014	11.51	0	18		None
					11.51	18	18.5		Stained black, strong naphthalene-like odor, sand grains coated
					11.51	18.5	30		None
T5-SB3	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/15/2014	11.62	0	30		None
T5-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/15/2014	11.69	0	10.5		None
					11.69	10.5	11		Stained black
					11.69	11	30		None
T5-SB5	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/15/2014	11.77	0	10		None
					11.77	10	12.5		Stained black
					11.77	12.5	30		None
T5-SB6	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/13/2014	11.81	0	30		None
T5-SB7	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/13/2014	11.71	0	7		None
					11.71	7	7.5		Sheen at 7.5' bgs, moderate fuel-like odor
					11.71	7.5	10		None
					11.71	10	11		Slight fuel-like odor
					11.71	11	15		None
					11.71	15	20		Slight fuel-like odor
					11.71	20	20.5		Soft sheen
					11.71	20.5	25		None
					11.71	25	30		Slight fuel-like odor
T5-SB8	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/13/2014	11.65	0	9.5		None
					11.65	9.5	10		Slight fuel-like odor
					11.65	10	11.5		Sheen on outside, staining at 11.5' bgs, slight fuel-like odor
					11.65	11.5	30		None
T6-SB1	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/20/2014	11.25	0	30		None
T6-SB2	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/17/2014	11.14	0	10		None
					11.14	10	11		Sheen on outside of material, slight fuel-like odor
					11.14	11	30		None

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T6-SB3	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/17/2014	11.07	0	30		None
T6-SB4	300 Maspeth Ave	Off-Site	National Grid (AECOM)	10/17/2014	10.99	0	15		None
					10.99	15	16		Slight fuel-like odor
					10.99	16	30		None
PDI-1	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/14/2012	11.63	0	5		None
					11.63	5	7		Slight naphthalene-like odor
					11.63	7	9		NAPL-like sheen, moderate naphthalene-like odor
					11.63	9	13		Coated with NAPL, strong naphthalene-like odor
					11.63	13	15		Saturated with NAPL, strong naphthalene-like odor
					11.63	15	17		Strong naphthalene-like odor
					11.63	17	27		None
					11.63	27	35		Coated with NAPL, strong naphthalene-like odor
					11.63	35	36.8		Strong naphthalene-like odor
					11.63	36.8	37		Coated with NAPL, strong naphthalene-like odor
					11.63	37	45		Saturated with NAPL, strong naphthalene-like odor
					11.63	45	47		NAPL-like sheen, strong naphthalene-like odor
					11.63	47	49		Slight naphthalene-like odor
					11.63	49	59		None
PDI-2	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/26/2012	11.45	0	11		None
					11.45	11	15		NAPL like sheen, strong naphthalene-like odor
					11.45	15	33		None
					11.45	33	35		Small pockets coated with NAPL, strong naphthalene-like odor
					11.45	35	42		Saturated with NAPL, strong/moderate/slight naphthalene-like odor
					11.45	42	55		None
PDI-3	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/23/2012	12.15	0	13		None
					12.15	13	15		NAPL-like sheen, strong naphthalene-like odor
					12.15	15	20		Saturated with NAPL, strong naphthalene-like odor
					12.15	20	21		None
					12.15	21	23	NR	No recovery
					12.15	23	27		Strong/Moderate naphthalene-like odor
					12.15	27	29		None
					12.15	29	29.5		Coated with NAPL, strong naphthalene-like odor
					12.15	29.5	30.5		Strong naphthalene-like odor
					12.15	30.5	31		Saturated with NAPL, strong naphthalene-like odor
					12.15	31	32		Strong naphthalene-like odor
					12.15	32	32.5		Saturated with NAPL, strong naphthalene-like odor
					12.15	32.5	33		Strong naphthalene-like odor
					12.15	33	35		Coated with NAPL, strong naphthalene-like odor
					12.15	35	36		Strong naphthalene-like odor
					12.15	36	37		Saturated with NAPL, strong naphthalene-like odor
					12.15	37	39		Layers of fine grained sand saturated with NAPL, strong naphthalene-like odor
					12.15	39	47		Strong/Moderate/Slight naphthalene-like odor
					12.15	47	55		None
PDI-4	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/21/2012	12.92	0	11		None
					12.92	11	17		Moderate naphthalene-like odor
					12.92	17	18		Saturated with NAPL, strong naphthalene-like odor
					12.92	18	19		Strong/Moderate naphthalene-like odor
					12.92	21	26		None
					12.92	26	31		Coated with NAPL, strong naphthalene-like odor
					12.92	31	39		Stained with NAPL, NAPL like sheen, strong naphthalene-like odor
					12.92	39	41		Moderate naphthalene-like odor
					12.92	41	55		None
PDI-5	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/29/2012	12.65	0	5		None
					12.65	5	9		Slight naphthalene-like odor
					12.65	9	11		None
					12.65	11	13		Moderate naphthalene-like odor
					12.65	13	15	NR	No recovery
					12.65	15	16		Coated with NAPL, strong naphthalene-like odor
					12.65	16	17		Strong naphthalene-like odor
					12.65	17	26.5		None
					12.65	26.5	27		Coated with NAPL, strong naphthalene-like odor
					12.65	27	28.5		Strong naphthalene-like odor
					12.65	28.5	33		Saturated with NAPL, strong naphthalene-like odor
					12.65	33	39		Coated with NAPL, strong naphthalene-like odor
					12.65	39	41		Thin beds of sand saturated with NAPL, strong naphthalene-like odor
					12.65	41	43		Slight naphthalene-like odor
					12.65	43	55		None

Table 5-1
Summary of Remedial Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
PDI-6	254 Maspeth Ave	On-Site	National Grid (AECOM)	8/24/2012	13.30	0	11		None
					13.30	11	13		NAPL-like sheen, slight naphthalene-like odor
					13.30	13	15		Few blebs of NAPL on water, NAPL-like sheen, slight naphthalene-like odor
					13.30	15	27		None
					13.30	27	28.5		Slight naphthalene-like odor
					13.30	28.5	35		Saturated with NAPL, strong naphthalene-like odor
					13.30	35	37		Coated with NAPL, strong naphthalene-like odor
					13.30	37	39		Coated with NAPL, slight naphthalene-like odor
					13.30	39	42.5		Coated wit NAPL, moderate naphthalene-like odor
					13.30	42.5	43		Saturated with NAPL
					13.30	43	57		None
PDI-8	252 Maspeth Ave	On-Site	National Grid (AECOM)	8/31/2012	14.49	0	12.5		None
					14.49	12.5	13		Moderate naphthalene-like odor
					14.49	13	15	NR	No recovery
					14.49	15	17		NAPL-like sheen, moderate naphthalene-like odor
					14.49	17	19		Blebs of NAPL in water, strong naphthalene-like odor
					14.49	19	21		Strong naphthalene-like odor
					14.49	21	31		None
					14.49	31	35		NAPL-like sheen, moderate naphthalene-like odor
					14.49	35	36.8		Strong naphthalene-like odor
					14.49	36.8	37		Coated with NAPL, strong naphthalene-like odor
					14.49	37	39		Stained with NAPL, strong naphthalene-like odor
					14.49	39	41		Saturated with NAPL, strong naphthalene-like odor
					14.49	41	43		Sand saturated with NAPL, strong naphthalene-like odor
					14.49	43	47		Saturated with NAPL, strong naphthalene-like odor
					14.49	47	55		None
RW-1	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/16/2013	10.40	0	17		None
					10.40	17	20		NAPL coating
					10.40	20	24		NAPL stringers and lenses
					10.40	24	25		NAPL coated
					10.40	25	26.5		NAPL saturated
					10.40	26.5	40		NAPL coated
					10.40	40	45		None
RW-2	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/17/2013	10.80	0	15		None
					10.80	15	16		NAPL saturated
					10.80	16	18		None
					10.80	18	19		Heavily NAPL coated
					10.80	19	34.5		None
					10.80	34.5	35		NAPL saturated
					10.80	35	36.5		None
					10.80	36.5	46		NAPL saturated
					10.80	46	51		None
RW-3	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/17/2013	11.70	0	20.5		None
					11.70	20.5	21		Heavily NAPL coated
					11.70	21	32		None
					11.70	32	32.5		NAPL saturated
					11.70	32.5	37		None
					11.70	37	43		NAPL saturated
					11.70	43	45		None
					11.70	45	46		NAPL saturated
					11.70	46	53		None
RW-4	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/21/2013	12.40	0	20		None
					12.40	20	21		NAPL saturated
					12.40	21	44		None
					12.40	44	46		NAPL saturated
					12.40	46	51		None
RW-5	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/21/2013	12.60	0	18		None
					12.60	18	21		NAPL coated
					12.60	21	32		None
					12.60	32	35		Streaks of NAPL staining and NAPL coating
					12.60	35	38.5		None
					12.60	38.5	42		Pockets of NAPL coating/saturation
					12.60	42	51		None
RW-6	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/20/2013	10.30	0	19		NAPL saturated
					10.30	19	24		None
					10.30	24	25		NAPL saturated
					10.30	25	26.5		NAPL coated
					10.30	26.5	30		NAPL saturated
					10.30	30	32		None
					10.30	32	42		NAPL saturated
					10.30	42	47		None
RW-7	254	On-Site	National Grid (AECOM)	3/24/2013	10.30	0	28		None
					10.30	28	28.1		1" NAPL saturated layer
					10.30	28.1	33		None
					10.30	33	43		NAPL saturated
					10.30	43	50		None
RW-8	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/24/2013	10.30	0	35		None
					10.30	35	43		Bands of NAPL saturation
					10.30	43	48		None

Table 5-1
Summary of Remedial Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
RW-9	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/18/2013	10.20	0	16		NAPL saturated
					10.20	16	17		NAPL stained, naphthalene-like odor
					10.20	17	19		NAPL saturated
					10.20	19	35		None
					10.20	35	44.5		NAPL saturated
					10.20	44.5	50		None
RW-10	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/18/2013	10.30	0	14		None
					10.30	14	15		NAPL coated
					10.30	15	17		Heavily NAPL coated
					10.30	17	25		None
					10.30	25	34		NAPL coated
					10.30	34	41		NAPL saturated
					10.30	41	48		None
RW-11	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/19/2013	10.30	0	16		None
					10.30	16	18		NAPL saturated
					10.30	18	24		None
					10.30	24	30		NAPL coated bands
					10.30	30	34		Beds of NAPL saturation
					10.30	34	40		NAPL saturated
					10.30	40	46		None
RW-12	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/19/2013	10.30	0	16		None
					10.30	16	17		NAPL saturated
					10.30	17	27		None
					10.30	17	34		Heavily NAPL coated bands
					10.30	34	40.5		NAPL saturated
					10.30	40.5	46		None
RW-13	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/20/2013	10.70	0	27		None
					10.70	27	32		Heavily NAPL coated
					10.70	32	40		NAPL saturated
					10.70	40	46		None
RW-14	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/20/2013	11.00	0	16.5		None
					11.00	16.5	18		NAPL saturated
					11.00	18	26		None
					11.00	26	32		NAPL coated, few bands of NAPL saturation
					11.00	32	39		NAPL saturated
					11.00	39	45		None
RW-15	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/19/2013	11.30	0	25		None
					11.30	25	30		NAPL coated
					11.30	30	40		NAPL saturated
					11.30	40	45		None
RW-16	254 Maspeth Ave	On-Site	National Grid (AECOM)	3/18/2013	11.70	0	27		None
					11.70	27	30		NAPL coated bands
					11.70	30	32		NAPL saturated
					11.70	32	35		NAPL coated
					11.70	35	40		NAPL saturated
					11.70	40	45		NAPL saturated pockets of sand
					11.70	45	50		None
RW-17	254 Maspeth Ave	On-Site	National Grid (AECOM)	4/10/2013	12.40	0	26	ND	No logging information available
					12.40	26	26.5		NAPL saturated
					12.40	26.5	40		NAPL coated
					12.40	40	43		NAPL saturated
					12.40	43	48		None
RW-18	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/15/2013	12.60	0	19		None
					12.60	19	21		NAPL coated, NAPL staining at 19' bgs
					12.60	21	33		None
					12.60	33	40		Heavily coated NAPL pockets of sand
					12.60	40	45		NAPL saturated
					12.60	45	50		None
RW-19	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/16/2013	12.80	0	15		None
					12.80	15	20		NAPL coated
					12.80	20	43		None
					12.80	43	47		NAPL saturated
					12.80	47	52		None
RW-20	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/16/2013	13.00	0	19		None
					13.00	19	21		NAPL coated
					13.00	21	37		None
					13.00	37	47		NAPL saturated
					13.00	47	52		None
RW-21	252 Maspeth Ave	On-Site	National Grid (AECOM)	3/18/2013	13.20	0	16		None
					13.20	16	17		NAPL coated
					13.20	17	18		NAPL saturated
					13.20	18	39		None
					13.20	39	45		NAPL saturated
					13.20	45	50		None
RW-22	222 Maspeth Ave	On-Site	National Grid (AECOM)	3/17/2013	*13.00*	0	18		None
					13.00	18	20		NAPL coated
					13.00	20	25		None
					13.00	25	35		Bands of NAPL coating/staining
					13.00	35	41		NAPL saturated
					13.00	41	46		None

Table 5-1
Summary of Remedial Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts - original
RW-23	222 Maspeth Ave	On-Site	National Grid (AECOM)	3/17/2013	*13.00*	0	25	G	None
					13.00	25	30	R	NAPL saturated
					13.00	30	35	G	None
					13.00	35	39	R	NAPL saturated
					13.00	39	44	G	None
TP-1	252 Maspeth Ave	On-Site	National Grid (AECOM)	10/8/2009	10.45	0	7	G	None
					10.45	7	10	Y	Strong naphthalene-like odor
					10.45	10	12	G	None
					10.45	12	13.9	Y	Mild to trace naphthalene-like odor
TP-2	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/6/2009	12.51	0	1	B	Strong naphthalene-like odor, 1x1' area of solidified NAPL in the north corner
					12.51	1	4	O	Pockets (0.25x0.25' to 2x3') of viscous NAPL in north corner, strong naphthalene-like odor
					12.51	4	6	B	Pocket (2x2') of solidified NAPL in north corner, strong naphthalene-like odor
					12.51	6	8	G	None
					12.51	8	8.5	Bl	Some oil on the water surface, yellow, moderate fuel oil-like odor, concrete slab
TP-2B	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/9/2011	*12.50*	0	2.85	G	None
					12.50	2.85	3	B	Few hardened NAPL balls on the southern wall
					12.50	3	4	G	None
					12.50	4	4.5	O	Spots of NAPL
					12.50	4.5	7.5	G	None
TP-2C	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/9/2011	*12.50*	0	2.85	G	None
					12.50	4.5	7.5	Bl	Very slight sheen on ground water
TP-3	254 Maspeth Ave	On-Site	National Grid (AECOM)	10/7/2009	13.12	0	7	G	None
					13.12	7	7.5	LB	Trace odor (petroleum)
TP-4	254 Maspeth Ave	On-Site	National Grid (AECOM)	9/9/2011	*13.00*	0	2	G	None
					13.00	2	4	B	Few hardened NAPL pieces
					13.00	4	6.9	G	None
					13.00	6.9	7.25	Bl	Hydrocarbon-like odor (diesel-like), oil-like material in soil and on groundwater

Notes:
mm = millimeter
(") - inches
(') - feet
NR - No Recovery
ND - Not Documented
ft bgs - feet below ground surface
NAPL - non-aqueous phase liquid
NAVD 88 - North American Vertical Datum of 1988
Ground Surface Elevations in italics are estimated based on neighboring points.

Impact Code Key

R	NAPL Saturated
P	Coated Material, Lenses
O	Blebs, Globs, Sheen
Y	Staining, odor
B	Hardened NAPL
Bl	Petroleum Impacts, Saturation and Sheen
LB	Petroleum Impacts, Staining and odor
G	No Observed Impacts

Table 5-2
Summary of Previous Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts
SB#1	254 Maspeth Ave	On-Site	Cooper Tank (GF)	9/7/2006	*12.75*	0	15		None
SB#2	254 Maspeth Ave	On-Site	Cooper Tank (GF)	9/7/2006	*11.45*	0	31		None
SB#3	252 Maspeth Ave	On-Site	Cooper Tank (GF)	9/11/2009	*11.90*	0	29		None
					11.90	29	31		Strong odor/visible product
SB#4	252 Maspeth Ave	On-Site	Cooper Tank (GF)	9/12/2006	*12.90*	0	14		None
					12.90	14	16		Odor
					12.90	16	19		None
					12.90	19	21		Odor
					12.90	21	24		Strong odor
					12.90	24	26		Odor
					12.90	26	29		Strong odor
					12.90	29	31		None
SB#5	254 Maspeth Ave	On-Site	Cooper Tank (GF)	9/11/2006	*13.30*	0	6		None
					13.30	6	14		Odor
					13.30	14	16		Oil on top of peat
					13.30	16	29		None
					13.30	29	31		Strong odor
K3504/PW-1	222 Maspeth Ave	On-Site	Cooper Tank	5/30/2003	*12.81*	0	80		None recorded
254-B-1	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	9/20/2004	*12.80*	0	8		None
					12.80	8	12		Moderate hydrocarbon odor
254-B-2	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	90/20/04	*12.80*	0	4		Creosote odor and black staining (refusal - wood pilings)
254-B-3	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	90/20/04	*12.80*	0	4		None (refusal - wood pilings)
254-B-4	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	90/20/04	*13.30*	0	4		None (refusal - wood pilings)
254-B-5	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	90/20/04	*11.60*	0	4		None (refusal)
254-B-6	254 Maspeth Ave	On-Site	Cooper Tank (EEA)	90/20/04	*12.50*	0	4		Possible black staining (refusal)
252-B-1	252 Maspeth Ave	On-Site	Cooper Tank (GF)	3/28/2005	*12.80*	0	1		None
					12.80	1	11		Heavy staining and odor
252-B-2	252 Maspeth Ave	On-Site	Cooper Tank (GF)	3/28/2005	*12.50*	0	10		Heavy staining and odor
252-B-3	252 Maspeth Ave	On-Site	Cooper Tank (GF)	3/28/2005	*14.50*	0	2		Some staining and odor
					14.50	2	10		Some staining
252-B-4	252 Maspeth Ave	On-Site	Cooper Tank (GF)	3/28/2005	*14.50*	0	10		Some staining and slight odor
SB-1	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	8		Black staining, petroleum odor
SB-2	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	8		Black staining, petroleum odor
SB-3	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	8		Black staining, petroleum odor
SB-4	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	4		Brownish grey to black staining, methane odor
					12.00	4	8		Black staining, methane odor
SB-5	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	4		Petroleum odor
					12.00	4	8		None
SB-6	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	8		Petroleum odor
SB-7	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	4		Some staining
					12.00	4	8		Black staining
SB-8	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	4		Black staining, petroleum odor
					12.00	4	8		Slight petroleum odor
SB-9	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	6		Dark staining
					12.00	6	8		Dark staining, slight petroleum odor
SB-10	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	1		None
					12.00	1	8		Dark staining, petroleum odor
SB-11	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	4		None
					12.00	4	6		Petroleum odor
SB-12	300 Maspeth Ave	Off-Site	FedEx (GF)	11/6/2002	*12.00*	0	6	NR	No information available
					12.00	6	8		Black staining, petroleum odor
TP-1	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Sheen on water table at 8'
TP-2	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Heavy sheen on water table at 8'
TP-3	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Sheen on water table at 8'
TP-4	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Sheen on water table at 8'
TP-5	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Sheen on water table at 8'
TP-6	300 Maspeth Ave	Off-Site	FedEx (GF)	8/2/2002	*10.80*	0	8		Sheen on water table at 8'

Table 5-2
Summary of Previous Investigation Visible and Olfactory Impacts
Former Equity Works MGP Site
Brooklyn, New York

Boring ID	Property (Address)	Location (On/Off-Site)	Installed By	Completion Date	Ground Surface Elevation NAVD88	Top of impact (ft bgs)	Bottom of Impact (ft bgs)	Impact Code	Impacts
B-1/MW-1 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/8/2003	*10.80*	0	0.5		None
					10.80	0.5	5		Petroleum-like odor
					10.80	5	6		Dark staining
					10.80	6	7		None
					10.80	7	9	NR	No recovery
					10.80	9	11		Dark staining
					10.80	11	20	ND	No soil observations recorded below water table
B-2/MW-2 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/9/2003	*11.00*	0	5		None
					11.00	5	7		Dark staining, petroleum-like odor
					11.00	7	20	ND	No soil observations recorded below water table
B-3/MW-3 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/9/2003	*11.50*	0	2		None
					11.50	2	5		Dark staining, petroleum-like odor
					11.50	5	6		None
					11.50	6	10		Heavy staining, petroleum-like odor
					11.50	10	20	ND	No soil observations recorded below water table
B-4/MW-4 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/9/2003	*11.90*	0	9		None
					11.90	9	20	ND	No soil observations recorded below water table
B-5/MW-5 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/8/2003	*11.80*	0	7		None
					11.80	7	8.5		Slight creosote-like odor
					11.80	8.5	9		Dark staining
					11.80	9	20	ND	No soil observations recorded below water table
B-6/MW-6 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/9/2003	*11.80*	0	11		None
					11.80	11	20	ND	No soil observations recorded below water table
MW-7 (Abandoned)	300 Maspeth Ave	Off-Site	FedEx (GF)	12/9/2003	*11.85*	0	20	ND	Unavailable - replacement well installed with no sampling

Notes:
NAVD 88 - North American Vertical Datum of 1988
ft bgs - feet below ground surface
Ground Surface Elevations in italics are estimated based on neigboring points.
GF - Gannett Flemming Engineers
EEA - Energy & Environmental Analysts, Inc
NR - No Recovery
ND - Not Documented

Impact Code Key

	R	NAPL Saturated
	P	Coated Material, Lenses
	O	Blebs, Globs, Sheen
	Y	Staining, odor
	B	Hardened NAPL
	B	Petroleum Impacts, Saturation and Sheen
	LB	Petroleum Impacts, Staining and odor
	G	No Observed Impacts

Table 5-3
Summary of Surface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
BTEX (mg/Kg)							
Benzene	0.06	89	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Ethylbenzene	1	780	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
m+p-Xylene	NL	NL	< 0.011 U	< 0.011 U	< 0.012 U	< 0.011 U	< 0.011 U
o-Xylene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
p-Xylene	NL	NL	NS	NS	NS	NS	NS
Toluene	0.7	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Xylenes (total)	0.26	1000	ND	ND	ND	ND	ND
Total BTEX (calculated)	NL	NL	ND	ND	ND	ND	ND
VOC (mg/Kg)							
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1,2-Trichloroethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1-Dichloroethane	0.27	480	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1-Dichloroethene	0.33	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,2-Dibromoethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,2-Dichlorobenzene	1.1	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,2-Dichloroethane	0.02	60	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,2-Dichloropropane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene/P-ethyltoluene	8.4	380	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.028 U	< 0.028 U	< 0.029 U	< 0.028 U	< 0.027 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.028 U	< 0.028 U	< 0.029 U	< 0.028 U	< 0.027 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.028 U	< 0.028 U	< 0.029 U	< 0.028 U	< 0.027 U
Acetone	0.05	1000	< 0.028 U	< 0.028 U	< 0.029 U	< 0.028 U	< 0.027 U
Acrolein	NL	NL	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Bromoform	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Bromomethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Carbon disulfide	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Carbon tetrachloride	0.76	44	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Chlorobenzene	1.1	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Chloroform	0.37	700	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Chloromethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
cis-1,2-Dichloroethene	0.25	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
cis-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Cyclohexane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Dibromochloromethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS

Table 5-3
Summary of Surface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRE-STRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
Isopropylbenzene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Methyl acetate	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Methyl tert-butyl ether	0.93	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Methylcyclohexane	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Methylene chloride	0.05	1000	< 0.014 U	< 0.014 U	< 0.015 U	< 0.014 U	< 0.014 U
Naphthalene	12	1000	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
trans-1,2-Dichloroethene	0.19	1000	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
trans-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Trichloroethene	0.47	400	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U
Trichlorofluoromethane	NL	NL	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ	< 0.006 UJ

Notes:

NYSDEC - New York State Department of Environmental Conservation

VOC - volatile organic compound

BTEX - benzene, toluene, ethylbenzene, and xylenes

mg/kg - milograms per kilogram

N - primary sample

FD - field duplicate sample

ND - Not Detected

NL - Not Listed

NS - Not Sampled

U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).

[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-4
Summary of Surface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
PAH (mg/Kg)							
2-Methylnaphthalene	NL	NL	< 0.36 U	< 0.37 U	**0.11 J**	**0.39**	< 0.36 U
Acenaphthene	20	1000	< 0.36 U	< 0.37 U	**0.37 J**	**0.21 J**	**0.2 J**
Acenaphthylene	100	1000	**0.084 J**	< 0.37 U	**0.096 J**	**1.7**	**0.13 J**
Anthracene	100	1000	**0.16 J**	**0.1 J**	**0.82**	**2.3**	**0.58**
Benzo(a)anthracene	1	11	**1**	**0.63**	**3.9**	**9**	**2.4**
Benzo(a)pyrene	1	1.1	**0.99**	**0.62**	**3.6**	**5.6**	**2.2**
Benzo(b)fluoranthene	1	11	**1.2**	**0.73**	**5**	**8.9**	**3**
Benzo(ghi)perylene	100	1000	**0.5**	**0.38**	**0.84**	**1.1**	**0.68**
Benzo(k)fluoranthene	0.8	110	**0.48**	**0.29 J**	**1.7**	**2.7**	**1.2**
Chrysene	1	110	**0.92**	**0.58**	**3.6**	**5.1**	**2.2**
Dibenz(a,h)anthracene	0.33	1.1	**0.16 J**	**0.14 J**	**0.37 J**	**0.53**	**0.24 J**
Fluoranthene	100	1000	**1.6 J**	**0.91 J**	**9.4**	**21**	**4.4**
Fluorene	30	1000	< 0.36 U	< 0.37 U	**0.32 J**	**1.8**	**0.2 J**
Indeno(1,2,3-cd)pyrene	0.5	11	**0.51**	**0.37**	**1.1**	**1.6**	**0.77**
Naphthalene	12	1000	< 0.36 U	< 0.37 U	**0.22 J**	**1.4**	**0.096 J**
Phenanthrene	100	1000	**0.65**	**0.38**	**3.9**	**14**	**2.3**
Pyrene	100	1000	**1.6 J**	**0.9 J**	**8**	**15**	**4.2**
Total PAHs	NL	NL	**9.854**	**6.03**	**43.346**	**92.33**	**24.796**
SVOC (mg/Kg)							
1,1'-Biphenyl	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	**0.087 J**	< 0.36 U
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,4,6-Trichlorophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,4-Dichlorophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,4-Dimethylphenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,4-Dinitrophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,4-Dinitrotoluene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2,6-Dinitrotoluene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2-Chloronaphthalene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2-Chlorophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2-Methylphenol	0.33	1000	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2-Nitroaniline	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
2-Nitrophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
3,3'-Dichlorobenzidine	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
3-and 4-Methylphenol	0.33	1000	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
3-Nitroaniline	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Bromophenyl phenyl ether	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Chloro-3-methylphenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Chloroaniline	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Nitroaniline	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Nitrophenol	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Acetophenone	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Atrazine	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Benzaldehyde	NL	NL	< 0.36 UJ	< 0.37 UJ	< 0.39 U	< 0.37 U	< 0.36 U
bis(2-Chloroethoxy)methane	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U

Table 5-4
Summary of Surface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
SVOC (mg/Kg) (continued)							
bis(2-Chloroethyl) ether	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
bis(2-Ethylhexyl) phthalate	NL	NL	**0.44 J**	**1.2 J**	**2.7 J**	**0.64 J**	**0.76 J**
Butyl benzyl phthalate	NL	NL	**0.32 J**	**0.82 J**	**2.3**	**0.21 J**	**0.19 J**
Caprolactam	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Carbazole	NL	NL	< 0.36 U	< 0.37 U	**0.36 J**	**0.69**	**0.29 J**
Diethyl phthalate	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Dimethyl phthalate	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Di-n-butyl phthalate	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Di-n-octyl phthalate	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	**0.14 J**
Hexachlorobutadiene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Hexachlorocyclopentadiene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Hexachloroethane	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Isophorone	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Nitrobenzene	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
N-Nitrosodiphenylamine	NL	NL	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	< 0.36 U	< 0.37 U	**0.19 J**	**0.84**	**0.11 J**
Hexachlorobenzene	0.33	12	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Pentachlorophenol	0.8	55	< 0.36 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.36 U
Phenol	0.33	1000	< 0.36 U	< 0.37 U	< 0.39 U	**0.078 J**	< 0.36 U

Notes:

mg/kg - milograms per kilogram

NL - Not Listed

NS - Not Sampled

N - primary sample

FD - field duplicate sample

U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

NYSDEC - New York State Department of Environmental Conservation

SVOC - semivolatile organic compound

PAH - polycyclic aromatic hydrocarbons

Bold indicates compound detected at a concentration greater than the reporting limit

Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value

Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).

[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-5
Summary of Surface Soil Inorganic Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRE-STRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
Metals (mg/Kg)							
Aluminum	NL	NL	**5070**	**5600**	**7200**	**6880**	**7140**
Antimony	NL	NL	**1.0 J**	**2.2 J**	**1.3 J**	**1.2 J**	**1.1 J**
Arsenic	13	16	**4.9 J**	**7.3 J**	**7.6**	**6.1**	**3.6**
Barium	350	10000	**93.0 J**	**137 J**	**216**	**93.8**	**98.8**
Beryllium	7.2	2700	**0.31 J**	**0.35 J**	**0.48 J**	**0.39 J**	**0.37 J**
Cadmium	2.5	60	**0.35 J**	**0.41 J**	**0.63**	**0.41 J**	**0.39 J**
Calcium	NL	NL	**47700 J**	**28800 J**	**49400 J**	**39500 J**	**20900 J**
Chromium	30	6800	**18.4 J**	**18.5 J**	**27.6 J**	**17.7 J**	**27.5 J**
Cobalt	NL	NL	**5.6**	**7.3**	**7.0**	**5.1 J**	**6.4**
Copper	50	10000	**63.1 J**	**94.6 J**	**83.3 J**	**53.8 J**	**41.3 J**
Iron	NL	NL	**13100 J**	**19400 J**	**13300**	**15700**	**13900**
Lead	63	3900	**184 J**	**183 J**	**258 J**	**113 J**	**97.7 J**
Magnesium	NL	NL	**6900 J**	**3990 J**	**5140 J**	**3400 J**	**4940 J**
Manganese	1600	10000	**235 J**	**237 J**	**279 J**	**216 J**	**283 J**
Mercury	0.18	5.7	**0.14 J**	**0.22 J**	**0.40 J**	**0.21 J**	**0.18 J**
Nickel	30	10000	**15.7 J**	**18.7 J**	**15.5 J**	**15.2 J**	**14.3 J**
Potassium	NL	NL	**866**	**903**	**1440**	**880**	**1110**
Selenium	3.9	6800	< 0.27 U	< 0.28 U	< 0.29 U	< 0.28 U	< 0.27 U
Silver	2	6800	**0.21 J**	**0.34 J**	**0.44 J**	**0.28 J**	**0.19 J**
Sodium	NL	NL	**428 J**	**343 J**	**357 J**	**234 J**	**183 J**
Thallium	NL	NL	**0.85 J**	**1.3**	**1.1 J**	**1.2**	**1.0 J**
Vanadium	NL	NL	**20.8 J**	**24.6 J**	**29.8 J**	**31.9 J**	**26.1 J**
Zinc	109	10000	**275 J**	**425 J**	**463 J**	**188 J**	**199 J**
Cyanide (mg/Kg)							
Cyanide, Free	NL	NL	< 0.55 U	< 0.56 U	< 0.58 U	< 0.56 U	< 0.55 U
PCBs (mg/Kg)							
Aroclor 1016	NL	NL	< 0.036 UJ	< 0.037 U	< 0.039 U	< 0.037 U	< 0.036 U
Aroclor 1221	NL	NL	< 0.074 U	< 0.075 U	< 0.078 U	< 0.074 U	< 0.073 U
Aroclor 1232	NL	NL	< 0.036 UJ	< 0.037 U	< 0.039 U	< 0.037 U	< 0.036 U
Aroclor 1242	NL	NL	**0.051 J**	< 0.037 U	< 0.039 U	< 0.037 U	< 0.036 U
Aroclor 1248	NL	NL	< 0.036 UJ	< 0.037 U	< 0.039 U	< 0.037 U	< 0.036 U
Aroclor 1254	NL	NL	**0.053 J**	**0.13 J**	**0.16 J**	**0.1**	**0.1**
Aroclor 1260	NL	NL	**0.047**	**0.059**	**0.098**	**0.12**	**0.091**
Aroclor 1262	NL	NL	< 0.036 UJ	< 0.037 UJ	< 0.039 UJ	< 0.037 UJ	< 0.036 UJ
Aroclor 1268	NL	NL	< 0.036 U	< 0.037 U	< 0.039 U	< 0.037 U	< 0.036 U
PCB (Total) (calculated)	0.1	25	**0.151**	**0.189**	**0.258**	**0.22**	**0.191**
Pesticides (mg/Kg)							
Aldrin	0.005	1.4	< 0.0019 U	< 0.0019 U	< 0.0020 UJ	< 0.0019 UJ	< 0.0019 U
Alpha-BHC	0.02	6.8	< 0.0019 U	< 0.0019 U	< 0.0020 UJ	< 0.0019 UJ	< 0.0019 U
Beta-BHC	0.036	14	< 0.0019 U	< 0.0019 U	< 0.0020 UJ	< 0.0019 UJ	< 0.0019 U
Chlordane	NL	NL	**0.0099 J**	**0.0079 J**	**0.016 J**	**0.037 J**	**0.028 J**
Chlordane, trans-	NL	NL	**0.011 J**	**0.01 J**	**0.017 J**	**0.038 J**	**0.029 J**
DDD,4,4-	0.0033	180	< 0.0036 U	< 0.0037 U	**0.025 NJ**	< 0.0037 U	**0.0085 NJ**
DDE,4,4-	0.0033	120	**0.0036 NJ**	< 0.0037 U	**0.012 NJ**	**0.018 J**	**0.022 NJ**
DDT,4,4-	0.0033	94	**0.019 J**	**0.024 J**	**0.031 J**	**0.031 J**	**0.055 J**
Delta-BHC	0.04	1000	< 0.0019 U	< 0.0019 U	< 0.0020 UJ	**0.0048 J**	< 0.0019 U
Dieldrin	0.005	2.8	**0.0031 J**	**0.0061 J**	< 0.0039 UJ	**0.0084 J**	**0.0071 J**
Endosulfan I	2.4	920	< 0.0019 U	< 0.0019 U	< 0.0020 U	< 0.0019 U	< 0.0019 U
Endosulfan II	2.4	920	< 0.0036 U	< 0.0037 U	< 0.0039 UJ	< 0.0037 UJ	< 0.0036 U
Endosulfan sulfate	2.4	920	< 0.0036 U	< 0.0037 U	< 0.0039 UJ	**0.0090 J**	**0.0078 NJ**
Endrin	0.014	410	< 0.0036 U	< 0.0037 U	< 0.0039 UJ	< 0.0037 UJ	**0.031 NJ**
Endrin aldehyde	NL	NL	< 0.0036 U	< 0.0037 U	**0.0052 J**	< 0.0037 UJ	< 0.0036 U
Endrin ketone	NL	NL	**0.0046 J**	**0.0071 J**	**0.0069 J**	**0.0072 J**	**0.028 J**
Gamma BHC - Lindane	0.1	23	< 0.0019 U	< 0.0019 U	< 0.0020 UJ	< 0.0019 UJ	< 0.0019 U
Heptachlor	0.042	29	**0.0014 J**	< 0.0019 U	< 0.0020 UJ	**0.0021 J**	**0.0017 J**
Heptachlor Epoxide	NL	NL	**0.0022 J**	**0.0030 J**	**0.0040 J**	**0.0041 NJ**	**0.0039 J**
Methoxychlor	NL	NL	< 0.019 U	< 0.019 U	< 0.02 UJ	< 0.019 UJ	< 0.019 U
Toxaphene	NL	NL	< 0.19 U	< 0.19 U	< 0.2 UJ	< 0.19 UJ	< 0.19 U

Table 5-5
Summary of Surface Soil Inorganic Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval	NYSDEC PART 375-6 UNRE-STRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-3 9/28/2009 SS-2-092809 N 0-0.5	SB-3 9/28/2009 DUP-1-092809 FD 0-0.5	SB-5 9/22/2009 SS-3-092209 N 0-0.5	SB-7 9/23/2009 SS-4-092309 N 0-0.5	SB-11 9/25/2009 SS-5-092509 N 0-0.5
Herbicides (mg/Kg)							
2,4,5-TP (Silvex)	3.8	1000	< 0.0055 U	< 0.0056 U	< 0.0059 U	< 0.0056 U	< 0.0055 U
2,4-D	NL	NL	< 0.011 U	< 0.011 U	< 0.012 U	< 0.011 U	< 0.011 U
2,4-DB	NL	NL	**0.019**	**0.0092 J**	< 0.012 U	**0.054**	**0.024 NJ**
T,2,4,5-	NL	NL	**0.013**	**0.0070**	**0.02**	**0.05**	**0.018**

Notes:

mg/kg - milograms per kilogram

NL - Not Listed

N - primary sample

FD - field duplicate sample

NYSDEC - New York State Department of Environmental Conservation

PCB - polychlorinated biphenyls

Bold indicates compound detected at a concentration greater than the reporting limit

Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value

U = The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J = The associated numerical value is an estimated quantity.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).

[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

AECOM

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-01C 10/20/2009 SB-1(5)102009 N 5-5 AECOM057	SB-01C 11/18/2009 SB-1C(23-25)111809 N 23-25 AECOM062	SB-01C 11/20/2009 SB-1C(80-81.5)112009 N 80-81.5 AECOM062	SB-01C 11/20/2009 SB-1C DUP01(112009) FD 80-81.5 AECOM062	SB-01C 11/23/2009 SB-1C(98-100)112309 N 98-100 AECOM062	SB-02B 10/13/2009 SB-2B(5)101309 N 5-5 AECOM056	SB-02B 10/14/2009 SB-2B(14-16)101409 N 14-16 AECOM057	SB-02B 10/14/2009 SB-2B(37-38)101409 N 37-38 AECOM057	SB-02B 10/14/2009 SB-2B(42-44)101409 N 42-44 AECOM057	SB-03B 9/28/2009 SB-3(4-5)092809 N 4-5 AECOM049	SB-03B 10/20/2009 SB-3(36-38)102009 N 36-38 AECOM058	SB-03B 10/21/2009 SB-3(46-48)102109 N 46-48 AECOM058	SB-04 9/24/2009 SB-4(1-2)092409 N 1-2 AECOM050	SB-04C 10/7/2009 SB-4(36-38)100709 N 36-38 AECOM057	SB-04C 10/8/2009 SB-4(44-46)100809 N 44-46 AECOM057	SB-05B 9/28/2009 SB-5(16-18)092809 N 16-18 AECOM049	SB-05B 9/28/2009 SB-5(28-30)092809 N 28-30 AECOM049	SB-05B 9/28/2009 SB-5(52-54)092809 N 52-54 AECOM049	SB-06B 10/14/2009 SB-6(6)101409 N 6-6 AECOM056
BTEX (mg/Kg)																					
Benzene	0.06	89	< 0.006 U	< 0.008 UJ	< 0.057 U	< 0.058 U	**0.032**	< 0.006 U	**5.4 D**	**10 J**	**0.062**	< 0.006 U	**650 D**	**0.078**	**68**	< 0.006 U	**0.003 J**	**17 J**	**2.7 J**	**0.004 J**	< 0.006 U
Ethylbenzene	1	780	< 0.006 U	< 0.008 U	**1.2 J**	**0.67 J**	< 0.007 U	< 0.006 U	**25 D**	**100 D**	**0.007**	< 0.006 U	**740 D**	**0.015**	**18**	< 0.006 U	< 0.006 U	**260**	**9.4**	< 0.007 U	< 0.006 U
m+p-Xylene	NL	NL	< 0.012 U	< 0.016 U	**16 D**	**12 D**	< 0.014 U	< 0.012 U	**67 D**	**130 D**	**0.008 J**	< 0.011 U	**680 D**	**0.013**	**140**	< 0.012 U	< 0.012 U	**250**	**17**	**0.003 J**	< 0.012 U
o-Xylene	NL	NL	< 0.006 U	< 0.008 U	**9.7 D**	**8.5 D**	< 0.007 U	< 0.006 U	**29 D**	**66 D**	**0.005 J**	< 0.006 U	**300 D**	**0.007**	**54**	< 0.006 U	< 0.006 U	**140**	**9.3**	< 0.007 U	< 0.006 U
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	< 0.006 U	< 0.008 UJ	**0.3 J**	**0.12 J**	< 0.007 U	< 0.006 U	**0.13**	**64 D**	**0.025**	< 0.006 U	**960 D**	**0.035**	**110**	< 0.006 UJ	**0.003 J**	**63**	**3**	**0.004 J**	< 0.006 U
Xylenes (total)	0.26	1000	ND	ND	**25.7**	**20.5**	ND	ND	**96**	**196**	**0.013**	ND	**980**	**0.02**	**194**	ND	ND	**390**	**26.3**	**0.003**	ND
Total BTEX (calculated)	NL	NL	ND	ND	**27.2**	**21.29**	**0.032**	ND	**126.53**	**370**	**0.107**	ND	**3330**	**0.148**	**390**	ND	**0.006**	**730**	**41.4**	**0.011**	ND
VOC (mg/Kg)																					
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1,2-Trichloroethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1-Dichloroethane	0.27	480	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1-Dichloroethene	0.33	1000	< 0.006 U	< 0.008 UJ	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 UJ	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,2-Dibromoethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,2-Dichlorobenzene	1.1	1000	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,2-Dichloroethane	0.02	60	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,2-Dichloropropane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.029 U	< 0.039 UJ	< 0.29 UJ	< 0.29 UJ	< 0.035 UJ	< 0.029 U	**0.006 J**	< 0.15 U	< 0.034 U	< 0.028 U	< 0.28 UJ	< 0.034 U	**0.043 J**	**0.004 J**	< 0.031 U	**0.044 J**	< 0.3 U	< 0.036 U	< 0.03 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.029 U	< 0.039 UJ	< 0.29 UJ	< 0.29 UJ	< 0.035 UJ	< 0.029 U	< 0.029 U	< 0.15 U	< 0.034 U	< 0.028 U	< 0.28 UJ	< 0.034 U	< 0.029 UJ	< 0.031 U	< 0.031 U	< 0.34 U	< 0.3 U	< 0.036 U	< 0.03 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.029 U	< 0.039 UJ	< 0.29 UJ	< 0.29 UJ	< 0.035 UJ	< 0.029 U	< 0.029 U	< 0.15 U	< 0.034 U	< 0.028 U	< 0.28 UJ	< 0.034 U	**0.004 J**	< 0.031 U	< 0.031 U	< 0.34 U	< 0.3 U	< 0.036 U	< 0.03 U
Acetone	0.05	1000	< 0.029 U	**0.07 J**	< 0.29 UJ	< 0.29 UJ	**0.06 J**	< 0.029 U	< 0.029 UJ	< 0.15 UJ	< 0.034 UJ	< 0.028 U	< 0.28 UJ	**0.044 J**	**0.14 J**	< 0.031 UJ	< 0.031 UJ	< 0.34 U	< 0.3 U	< 0.036 U	< 0.03 U
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Bromoform	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Bromomethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Carbon disulfide	NL	NL	< 0.006 UJ	**0.005 J**	< 0.057 U	< 0.058 U	**0.009**	< 0.006 UJ	< 0.006 U	**0.023 J**	< 0.007 U	< 0.006 U	**0.017 J**	< 0.007 U	**0.002 J**	**0.001 J**	**0.001 J**	**0.02 J**	**0.017 J**	< 0.007 U	< 0.006 UJ
Carbon tetrachloride	0.76	44	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Chlorobenzene	1.1	1000	< 0.006 U	< 0.008 UJ	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	**0.002 J**	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Chloroform	0.37	700	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Chloromethane	NL	NL	< 0.006 UJ	< 0.008 UJ	< 0.057 UJ	< 0.058 UJ	< 0.007 UJ	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
cis-1,2-Dichloroethene	0.25	1000	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	**0.15 J**	< 0.007 U	< 0.006 U	**0.011 J**	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
cis-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Cyclohexane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	**0.009**	**0.055 J**	< 0.007 U	< 0.006 U	**0.37 J**	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Dibromochloromethane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.006 UJ	< 0.008 UJ	< 0.057 UJ	< 0.058 UJ	< 0.007 UJ	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	< 0.006 U	< 0.008 U	**0.1**	**0.061**	< 0.007 U	< 0.006 U	**6 D**	**2.3 J**	< 0.007 U	< 0.006 U	**2.3 J**	< 0.007 U	**0.019 J**	< 0.006 U	< 0.006 U	**29**	**0.46**	< 0.007 U	< 0.006 U
Methyl acetate	NL	NL	< 0.006 U	< 0.008 UJ	< 0.057 UJ	< 0.058 UJ	< 0.007 UJ	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Methyl tert-butyl ether	0.93	1000	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Methylcyclohexane	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	**0.026**	**0.21 J**	< 0.007 U	< 0.006 U	**1.1 J**	< 0.007 U	**0.015 J**	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Methylene chloride	0.05	1000	< 0.006 UJ	< 0.01 UJ	< 0.057 UJ	< 0.058 UJ	< 0.008 UJ	< 0.019 U	< 0.006 UJ	< 0.03 UJ	< 0.007 UJ	< 0.014 U	< 0.056 UJ	< 0.007 UJ	< 0.018 UJ	< 0.006 UJ	< 0.006 UJ	< 0.2 U	< 0.16 U	< 0.021 U	< 0.018 UJ
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.006 U	< 0.008 U	**16 D**	**14 D**	< 0.007 U	< 0.006 U	< 0.006 U	**1.5 J**	< 0.007 U	< 0.006 U	**81 D**	< 0.007 U	**25**	< 0.006 U	< 0.006 U	< 0.068 U	**0.66**	< 0.007 U	< 0.006 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	**0.034 J**	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
trans-1,2-Dichloroethene	0.19	1000	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
trans-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 U	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Trichloroethene	0.47	400	< 0.006 U	< 0.008 UJ	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	**0.055 J**	< 0.007 U	< 0.006 UJ	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 U	< 0.061 U	< 0.007 U	< 0.006 U
Trichlorofluoromethane	NL	NL	< 0.006 UJ	< 0.008 U	< 0.057 U	< 0.058 U	< 0.007 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 UJ	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 UJ	< 0.061 UJ	< 0.007 UJ	< 0.006 U
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.006 UJ	< 0.008 UJ	< 0.057 UJ	< 0.058 UJ	< 0.007 UJ	< 0.006 U	< 0.006 U	< 0.03 U	< 0.007 U	< 0.006 UJ	< 0.056 UJ	< 0.007 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.068 UJ	< 0.061 UJ	< 0.007 UJ	< 0.006 U

Notes are on the last page.

AECOM

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-06B 10/21/2009 SB-6(16-18)102109 N 16-18 AECOM057	SB-06B 10/21/2009 SB-6(26-28)102109 N 26-28 AECOM057	SB-06B 10/21/2009 SB-6(30-32)102109 N 30-32 AECOM057	SB-07A 10/5/2009 SB-7(6-8)100509 N 6-8 AECOM049	SB-07B 10/27/2009 SB-7(38-40)102709 N 38-40 AECOM058	SB-07B 10/27/2009 SB-7(44-46)102709 N 44-46 AECOM058	SB-08 9/27/2009 SB-8(2-3)092709 N 2-3 AECOM049	SB-08 10/18/2009 SB-8(24-26)101809 N 24-26 AECOM058	SB-09 9/27/2009 SB-9(4-5)092709 N 4-5 AECOM050	SB-09 9/27/2009 SB-9(20-21.5)092709 N 20-21.5 AECOM050	SB-09 9/27/2009 SB-9(36-38)092709 N 36-38 AECOM050	SB-09 9/27/2009 SB-9(40-42)092709 N 40-42 AECOM050	SB-10 9/27/2009 SB-10(3-4)092709 N 3-4 AECOM050	SB-10 9/25/2009 SB-10(16-18)092509 N 16-18 AECOM050	SB-10 9/28/2009 SB-10(40-41.5)100709 N 40-41.5 AECOM050	SB-10 9/27/2009 SB-10(48-50)092709 N 48-50 AECOM050	SB-11 10/6/2009 SB-11(16-18)100609 N 16-18 AECOM056	SB-11 10/6/2009 SB-11(32-32.5)100609 N 32-32.5 AECOM056	SB-11 10/6/2009 SB-11(54-56)100609 N 54-56 AECOM056
BTEX (mg/Kg)																						
Benzene	0.06	89	< 0.008 U	< 0.006 U	< 0.006 U	**0.002 J**	**0.011**	**0.001 J**	< 0.007 U	**680 D**	**0.023 J**	**11**	**0.025 J**	**0.01**	**0.006 J**	**130**	**52**	**0.21**	**0.065**	**1.4 J**	**0.13**
Ethylbenzene	1	780	< 0.008 U	< 0.006 U	< 0.006 U	**0.005 J**	**0.026**	< 0.006 U	**0.013**	**610 D**	**0.028 J**	**1.5**	**0.69**	< 0.007 U	**0.067**	**320**	**110**	**0.015**	**0.33**	**17 J**	**0.006 J**
m+p-Xylene	NL	NL	< 0.017 U	**0.004 J**	< 0.012 U	**0.011 J**	**0.005 J**	< 0.013 U	**0.027**	**1100 D**	**0.031 J**	**0.31**	**0.9**	< 0.013 U	**0.075**	**310**	**210**	**0.02**	**0.077**	**15 J**	**0.008 J**
o-Xylene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	**0.005 J**	**0.012**	< 0.006 U	**0.033**	**500 D**	**0.063 J**	**0.21**	**0.65**	< 0.007 U	**0.033**	**140**	**100**	**0.012**	**0.063**	**7.7 J**	**0.003 J**
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	< 0.008 U	< 0.006 U	< 0.006 U	**0.003 J**	< 0.006 U	< 0.006 U	**0.016**	**1300 D**	**0.07 J**	**7.2**	**0.018 J**	< 0.007 U	**0.006 J**	**270**	**180**	**0.048**	**0.021 J**	**7.4 J**	**0.021 J**
Xylenes (total)	0.26	1000	ND	**0.004**	ND	**0.016**	**0.017**	ND	**0.06**	**1600**	**0.094**	**0.52**	**1.55**	ND	**0.108**	**450**	**310**	**0.032**	**0.14**	**22.7**	**0.011**
Total BTEX (calculated)	NL	NL	ND	**0.004**	ND	**0.026**	**0.054**	**0.001**	**0.089**	**4190**	**0.215**	**20.22**	**2.283**	**0.01**	**0.187**	**1170**	**652**	**0.305**	**0.556**	**48.5**	**0.168**
VOC (mg/Kg)																					
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1,2-Trichloroethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1-Dichloroethane	0.27	480	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	**0.005 J**	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1-Dichloroethene	0.33	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,2-Dibromoethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,2-Dichlorobenzene	1.1	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,2-Dichloroethane	0.02	60	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,2-Dichloropropane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.002 J**	< 0.062 UJ	**0.006 J**	< 0.01 U	< 0.029 U	< 0.007 U	**0.006 J**	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	**0.046**	< 0.03 U	< 0.029 U	**0.008 J**	**0.003 J**	**0.002 J**	< 0.035 U	< 0.31 UJ	**0.021 J**	**0.02 J**	< 0.14 U	< 0.034 U	**0.007 J**	**0.061 J**	< 0.29 UJ	< 0.034 U	< 0.15 U	< 0.15 U	< 0.036 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.043 U	< 0.03 U	< 0.029 U	< 0.03 U	< 0.031 U	< 0.032 U	< 0.035 U	< 0.31 UJ	< 0.031 U	< 0.049 U	< 0.14 U	< 0.034 U	< 0.034 U	< 0.3 UJ	< 0.29 UJ	< 0.034 U	< 0.15 U	< 0.15 U	< 0.036 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.043 U	< 0.03 U	< 0.029 U	< 0.03 U	< 0.031 U	< 0.032 U	< 0.035 U	< 0.31 UJ	**0.005 J**	**0.003 J**	< 0.14 U	< 0.034 U	**0.003 J**	< 0.3 UJ	< 0.29 UJ	< 0.034 U	< 0.15 U	< 0.15 U	< 0.036 U
Acetone	0.05	1000	**0.15 J**	< 0.03 UJ	< 0.029 UJ	**0.086 J**	**0.012 J**	**0.007 J**	< 0.035 U	< 0.31 UJ	**0.19 J**	**0.11 J**	< 0.14 U	**0.043 J**	**0.44 J**	**0.37 J**	< 0.29 UJ	< 0.034 U	< 0.15 U	< 0.15 U	< 0.036 U
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Bromoform	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Bromomethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Carbon disulfide	NL	NL	**0.004 J**	**0.003 J**	**0.002 J**	**0.022**	< 0.006 U	< 0.006 U	**0.003 J**	**0.053 J**	**0.027 J**	**0.008 J**	**0.007 J**	< 0.007 U	**0.015**	**0.018 J**	**0.027 J**	< 0.007 U	< 0.03 U	**0.012 J**	< 0.007 U
Carbon tetrachloride	0.76	44	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Chlorobenzene	1.1	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U
Chloroform	0.37	700	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Chloromethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U
cis-1,2-Dichloroethene	0.25	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	**0.013 J**	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
cis-1,3-Dichloropropene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Cyclohexane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	**0.007 J**	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	**0.029**	< 0.007 U
Dibromochloromethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 UJ	< 0.01 U	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.003 J**	**25 J**	**0.024 J**	**0.006 J**	**0.039 J**	< 0.007 UJ	**0.011 J**	**8.7 J**	**1.7 J**	< 0.007 UJ	**0.057**	**1.8 J**	< 0.007 U
Methyl acetate	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Methyl tert-butyl ether	0.93	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	**0.002 J**	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Methylcyclohexane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	**0.068 J**	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	**0.15 J**	< 0.007 UJ	< 0.03 U	**0.081**	< 0.007 U
Methylene chloride	0.05	1000	< 0.008 UJ	< 0.006 UJ	< 0.006 UJ	< 0.017 UJ	< 0.006 UJ	< 0.006 UJ	< 0.02 U	< 0.062 UJ	< 0.02 U	< 0.029 U	< 0.081 U	< 0.019 U	< 0.021 U	< 0.18 UJ	< 0.18 UJ	< 0.021 U	< 0.085 UJ	< 0.084 UJ	< 0.024 UJ
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	**880 D**	**0.004 J**	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	**82**	**140**	**0.009**	< 0.03 U	**1.1**	**0.003 J**
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.004 J**	< 0.062 UJ	**0.006 J**	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
trans-1,2-Dichloroethene	0.19	1000	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
trans-1,3-Dichloropropene	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Trichloroethene	0.47	400	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 U	< 0.062 UJ	< 0.006 U	< 0.01 U	< 0.029 U	< 0.007 U	< 0.007 U	< 0.059 UJ	< 0.059 UJ	< 0.007 U	< 0.03 U	< 0.029 U	< 0.007 U
Trichlorofluoromethane	NL	NL	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 UJ	< 0.062 UJ	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.008 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.006 U	< 0.007 UJ	< 0.062 UJ	< 0.006 UJ	< 0.01 UJ	< 0.029 UJ	< 0.007 UJ	< 0.007 UJ	< 0.059 UJ	< 0.059 UJ	< 0.007 UJ	< 0.03 U	< 0.029 U	< 0.007 U

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-12A 9/25/2009 SB-12(4-5)092509 N 4-5 AECOM050	SB-12A 10/1/2009 SB-12(10-12.2)100109 N 10-12.2 AECOM056	SB-12B 11/3/2009 SB-12B(40-42)110309 N 40-42 AECOM057	SB-12B 11/3/2009 SB-12B(48-50)110309 N 48-50 AECOM057	SB-13 9/27/2009 SB-13(0-1)092709 N 0-1 AECOM056	SB-13 9/28/2009 SB-13(12-14)092809 N 12-14 AECOM056	SB-13 9/27/2009 SB-13(18-24)092709 N 18-24 AECOM050	SB-14A 9/27/2009 SB-14(1-2)092709 N 1-2 AECOM050	SB-14B 9/27/2009 SB-14B(11-13)092709 N 11-13 AECOM050	SB-14B 10/17/2009 SB-14B(20-22)101709 N 20-22 AECOM057	SB-14B 10/17/2009 SB-14B(38-40)101709 N 38-40 AECOM057	SB-14B 10/17/2009 SB-14B(54-56)101709 N 54-56 AECOM057	SB-15 9/23/2009 SB-15(3-4)092309 N 3-4 AECOM050	SB-15 9/30/2009 SB-15(12-14)093009 N 12-14 AECOM056	SB-15 9/30/2009 SB-15(38-40)093009 N 38-40 AECOM056	SB-15 9/30/2009 SB-15(42-44)093009 N 42-44 AECOM056	SB-16A 9/24/2009 SB-16(2-3)092409 N 2-3 AECOM050	SB-16B 10/19/2009 SB-16B(30-32)101909 N 30-32 AECOM057
BTEX (mg/Kg)																				
Benzene	0.06	89	**0.037**	< 0.036 U	**0.53 D**	< 0.006 U	**0.03**	**53**	**490 J**	**0.02 J**	**1.6**	**18 J**	**74 D**	< 0.006 U	< 0.006 U	**2.3**	**7.7**	< 0.007 U	**0.004 J**	**6.2 J**
Ethylbenzene	1	780	< 0.006 U	< 0.036 U	**1.8 D**	< 0.006 U	**0.025**	**130**	**74 J**	**0.013 J**	**6.8**	**54 J**	**260 D**	< 0.006 U	< 0.006 U	**26**	**15**	< 0.007 U	< 0.006 U	**13 D**
m+p-Xylene	NL	NL	**0.026**	< 0.072 U	**1.7 D**	< 0.013 U	**0.017**	**190**	**490 J**	**0.055 J**	**14**	**48 J**	**370 D**	< 0.011 U	< 0.013 U	**13**	**17**	< 0.013 U	**0.012**	**12 D**
o-Xylene	NL	NL	**0.011**	< 0.036 U	**0.82 D**	< 0.006 U	**0.011**	**83**	**210 J**	**0.044 J**	**7.7**	**23 J**	**170 D**	< 0.006 U	< 0.006 U	**23**	**11**	< 0.007 U	**0.004 J**	**7 D**
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.033**	< 0.036 U	**1.3 D**	< 0.006 U	**0.01**	**130**	**640 J**	**0.024 J**	**3.3**	**46 J**	**270 D**	< 0.006 U	< 0.006 U	**0.37**	**6.9**	< 0.007 U	**0.013**	**1.2 J**
Xylenes (total)	0.26	1000	**0.037**	ND	**2.52**	ND	**0.028**	**273**	**700**	**0.099**	**21.7**	**71**	**540**	ND	ND	**36**	**28**	ND	**0.016**	**19**
Total BTEX (calculated)	NL	NL	**0.107**	ND	**6.15**	ND	**0.093**	**586**	**1904**	**0.156**	**33.4**	**189**	**1144**	ND	ND	**64.67**	**57.6**	ND	**0.033**	**39.4**
VOC (mg/Kg)																				
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1,2-Trichloroethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1-Dichloroethane	0.27	480	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	**0.028 J**	< 0.062 UJ	**0.006 J**	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1-Dichloroethene	0.33	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,2-Dibromoethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,2-Dichlorobenzene	1.1	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,2-Dichloroethane	0.02	60	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,2-Dichloropropane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	**0.003 J**	< 0.069 UJ	< 0.062 UJ	**0.004 J**	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.029 U	**0.021 J**	**0.004 J**	< 0.032 U	**0.009 J**	**0.064 J**	**0.092 J**	**0.028 J**	< 0.29 U	**0.25 J**	< 0.14 UJ	< 0.028 U	**0.005 J**	**0.039 J**	< 0.3 U	< 0.034 U	**0.006 J**	< 0.15 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.029 U	< 0.18 U	< 0.03 UJ	< 0.032 U	< 0.032 U	< 0.35 UJ	< 0.31 UJ	< 0.033 U	< 0.29 U	< 0.07 UJ	< 0.14 UJ	< 0.028 U	< 0.032 U	< 0.32 U	< 0.3 U	< 0.034 U	< 0.029 U	< 0.15 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.029 U	< 0.18 U	< 0.03 UJ	< 0.032 U	**0.005 J**	**0.038 J**	< 0.31 UJ	**0.012 J**	< 0.29 U	**0.012 J**	< 0.14 UJ	< 0.028 U	< 0.032 U	< 0.32 U	< 0.3 U	< 0.034 U	< 0.029 U	< 0.15 U
Acetone	0.05	1000	< 0.029 U	< 0.18 U	< 0.03 UJ	< 0.032 UJ	**0.1 J**	< 0.35 U	**0.32 J**	< 0.39 U	< 0.29 U	**0.79 J**	< 0.14 UJ	< 0.028 U	**0.033 J**	< 0.32 U	< 0.3 U	< 0.034 U	**0.039 J**	< 0.15 U
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Bromoform	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Bromomethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Carbon disulfide	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	**0.013**	**0.045 J**	**0.086 J**	**0.008 J**	< 0.058 U	**0.032 J**	**0.021 J**	< 0.006 UJ	**0.005 J**	**0.023 J**	< 0.061 U	< 0.007 U	**0.003 J**	**0.047**
Carbon tetrachloride	0.76	44	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Chlorobenzene	1.1	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Chloroform	0.37	700	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Chloromethane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 UJ	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
cis-1,2-Dichloroethene	0.25	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	**0.094 J**	< 0.006 U	< 0.006 U	< 0.064 U	**0.013 J**	< 0.007 U	< 0.006 U	< 0.03 U
cis-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Cyclohexane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	**0.085 J**	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	**0.21 J**	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Dibromochloromethane	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 UJ	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	< 0.006 UJ	< 0.036 U	**0.011 J**	< 0.006 U	**0.003 J**	**3.6 J**	**1.3 J**	**0.02 J**	**1.1 J**	**0.53 J**	**5.7 J**	< 0.006 U	< 0.006 U	**1.7**	**0.19**	< 0.007 U	< 0.006 U	**2.4 J**
Methyl acetate	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Methyl tert-butyl ether	0.93	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Methylcyclohexane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	**0.18 J**	**0.32 J**	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	**0.87 J**	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	**0.035**
Methylene chloride	0.05	1000	< 0.017 U	< 0.14 U	< 0.006 UJ	< 0.006 UJ	< 0.019 U	< 0.21 U	< 0.19 UJ	< 0.02 U	< 0.15 U	< 0.014 UJ	< 0.029 UJ	< 0.006 UJ	< 0.017 U	< 0.24 UJ	< 0.23 U	< 0.026 UJ	< 0.015 U	< 0.03 UJ
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	**0.019**	< 0.036 U	**0.11 J**	< 0.006 U	**0.003 J**	**60**	**350 J**	**0.004 J**	**2.3**	< 0.014 UJ	**180 D**	< 0.006 U	< 0.006 U	< 0.064 U	**2.2**	< 0.007 U	< 0.006 U	< 0.03 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
trans-1,2-Dichloroethene	0.19	1000	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	**0.006 J**	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
trans-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Trichloroethene	0.47	400	< 0.006 U	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 U	< 0.058 U	< 0.014 UJ	**0.032 J**	< 0.006 U	< 0.006 U	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 U	< 0.03 U
Trichlorofluoromethane	NL	NL	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 U	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 UJ	< 0.006 UJ	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 UJ	< 0.03 U
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.006 UJ	< 0.036 U	< 0.006 UJ	< 0.006 U	< 0.006 UJ	< 0.069 UJ	< 0.062 UJ	< 0.007 UJ	< 0.058 UJ	< 0.014 UJ	< 0.029 UJ	< 0.006 UJ	< 0.006 UJ	< 0.064 U	< 0.061 U	< 0.007 U	< 0.006 UJ	< 0.03 U

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-16B 10/19/2009 SB-16B(44-46)101909 N 44-46 AECOM057	SB-17 9/25/2009 SB-17(1-2)092509 N 1-2 AECOM049	SB-17 10/22/2009 SB-17(16-18)102209 N 16-18 AECOM058	SB-17 10/22/2009 SB-17(36-38)102209 N 36-38 AECOM058	SB-17 10/22/2009 SB-17(40-42)102209 N 40-42 AECOM058	SB-18 9/25/2009 SB-18(4-5)092509 N 4-5 AECOM050	SB-18 10/1/2009 SB-18(12-14)100109 N 12-14 AECOM056	SB-18 10/2/2009 SB-18(38-40)100209 N 38-40 AECOM056	SB-18 10/2/2009 SB-18(42-44)100209 N 42-44 AECOM056	TP-01 10/8/2009 TP-1(9)100809 N 9-9 AECOM056	TP-01 10/8/2009 TP-1(12)100809 N 12-12 AECOM057	TP-01 10/8/2009 DUP-3-100809 FD 12-12 AECOM056	TP-02 10/6/2009 TP-2(8.5)100609 N 8.5-8.5 AECOM056	TP-03 10/7/2009 TP-3(7.0)100709 N 7-7 AECOM050	TP-03 10/7/2009 DUP-2-100709 FD 7-7 AECOM050	TP-03 10/7/2009 TP-3(7.5)100709 N 7.5-7.5 AECOM050	SB-16C 10/22/2011 SB-16C(92.5-95)102211 N 92.5-95 460328301	SB-16C 10/22/2011 SB-16C(102.5-105)102211 N 102.5-105 460328301	SB-19 10/30/2011 SB-19(2-5)103011 N 2-5 460330951	SB-19 11/6/2011 SB-19(70-75)110611 N 70-75 460334711
BTEX (mg/Kg)																							
Benzene	0.06	89	**0.11**	**0.005 J**	**0.73 J**	**0.86**	< 0.006 U	< 0.006 U	< 0.066 U	**0.004 J**	**0.013**	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.11**	**0.0034**	**0.12**	< 0.0012 U
Ethylbenzene	1	780	**0.074**	< 0.005 U	**18 D**	**4.4 D**	< 0.006 U	< 0.006 U	< 0.066 U	**0.005 J**	**0.017**	**0.034**	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.027**	**0.0019**	**0.77**	**0.063**
m+p-Xylene	NL	NL	**0.04**	**0.02**	**6.7 D**	**5.5 D**	< 0.012 U	< 0.012 U	< 0.13 U	**0.003 J**	**0.005 J**	**0.044 J**	< 0.013 U	< 0.012 U	**0.017 J**	< 0.011 U	< 0.012 U	< 0.013 U	NS	NS	NS	NS
o-Xylene	NL	NL	**0.027**	**0.006**	**5.7 D**	**3.6 D**	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	**0.003 J**	**0.046**	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.011**	**0.019**	**0.063 J**	**0.043**	< 0.006 U	< 0.006 U	< 0.066 U	**0.003 J**	**0.009**	< 0.031 UJ	< 0.006 UJ	< 0.006 UJ	**0.013 J**	< 0.006 U	< 0.006 U	< 0.006 U	**0.2**	**0.0044**	**0.22**	**0.00055 J**
Xylenes (total)	0.26	1000	**0.067**	**0.026**	**12.4**	**9.1**	ND	ND	ND	**0.003**	**0.008**	**0.09**	ND	ND	**0.017**	ND	ND	ND	**0.23**	**0.0052**	**1**	**0.073**
Total BTEX (calculated)	NL	NL	**0.262**	**0.05**	**31.193**	**14.403**	ND	ND	ND	**0.015**	**0.047**	**0.124**	ND	ND	**0.03**	ND	ND	ND	**0.567**	**0.0149**	**2.11**	**0.13655**
VOC (mg/Kg)																						
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,1,2-Trichloroethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,1-Dichloroethane	0.27	480	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,1-Dichloroethene	0.33	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 UJ	NS	NS	NS	NS
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,2-Dibromoethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,2-Dichloroethane	0.02	60	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,2-Dichloropropane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.031 U	**0.009 J**	**0.063 J**	< 0.14 U	**0.002 J**	**0.003 J**	< 0.33 U	< 0.03 U	< 0.031 U	**0.071 J**	< 0.031 U	< 0.03 U	**0.035 J**	< 0.029 U	< 0.03 U	< 0.032 U	NS	NS	NS	NS
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.031 U	< 0.027 U	< 0.16 U	< 0.14 U	< 0.03 U	< 0.03 U	< 0.33 U	< 0.03 U	< 0.031 U	< 0.15 U	< 0.031 U	< 0.03 U	< 0.15 U	< 0.029 U	< 0.03 U	< 0.032 U	NS	NS	NS	NS
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.031 U	< 0.027 U	< 0.16 U	< 0.14 U	< 0.03 U	< 0.03 U	< 0.33 U	< 0.03 U	< 0.031 U	< 0.15 U	< 0.031 U	< 0.03 U	< 0.15 U	< 0.029 U	< 0.03 U	< 0.032 U	NS	NS	NS	NS
Acetone	0.05	1000	< 0.031 UJ	**0.045 J**	**0.29 J**	**0.061 J**	**0.014 J**	**0.079 J**	< 0.33 U	< 0.03 U	< 0.031 U	**0.33 J**	< 0.031 UJ	< 0.03 U	**0.16 J**	< 0.029 U	< 0.03 U	< 0.032 U	NS	NS	NS	NS
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Bromoform	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Bromomethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 UJ	< 0.006 UJ	< 0.006 U	NS	NS	NS	NS
Carbon disulfide	NL	NL	< 0.006 U	**0.001 J**	**0.02 J**	< 0.029 UJ	< 0.006 U	**0.011**	< 0.066 U	< 0.006 U	< 0.006 U	**0.015 J**	< 0.006 U	< 0.006 U	**0.006 J**	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Carbon tetrachloride	0.76	44	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Chlorobenzene	1.1	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Chloroform	0.37	700	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Chloromethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
cis-1,2-Dichloroethene	0.25	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
cis-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Cyclohexane	NL	NL	< 0.006 U	< 0.005 U	**0.36 J**	< 0.029 U	< 0.006 U	< 0.006 U	**0.31 J**	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	**0.1 J**	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Dibromochloromethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.006 U	< 0.005 U	< 0.031 UJ	< 0.029 UJ	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	**0.004 J**	< 0.005 U	**6.8 D**	**1.1 D**	< 0.006 U	< 0.006 U	**0.1 J**	< 0.006 U	< 0.006 U	**0.017 J**	< 0.006 U	< 0.006 U	**0.06 J**	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Methyl acetate	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Methyl tert-butyl ether	0.93	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Methylcyclohexane	NL	NL	< 0.006 U	< 0.005 U	**1.1 J**	**0.034**	< 0.006 U	< 0.006 U	**1 J**	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	**0.31 J**	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Methylene chloride	0.05	1000	< 0.006 UJ	< 0.014 U	< 0.031 UJ	< 0.029 UJ	< 0.006 UJ	< 0.015 U	< 0.25 UJ	< 0.023 UJ	< 0.024 UJ	< 0.11 UJ	< 0.006 UJ	< 0.017 UJ	< 0.083 UJ	< 0.015 U	< 0.016 U	< 0.017 UJ	NS	NS	NS	NS
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.006 U	**0.005 J**	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	**0.003 J**	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	**0.1**	**0.00040 J**	**0.041 J**	**0.0090**
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
trans-1,2-Dichloroethene	0.19	1000	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
trans-1,3-Dichloropropene	NL	NL	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Trichloroethene	0.47	400	< 0.006 U	< 0.005 U	< 0.031 U	< 0.029 U	< 0.006 U	< 0.006 U	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Trichlorofluoromethane	NL	NL	< 0.006 U	< 0.005 UJ	< 0.031 UJ	< 0.029 UJ	< 0.006 U	< 0.006 UJ	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.006 U	< 0.005 UJ	< 0.031 UJ	< 0.029 UJ	< 0.006 U	< 0.006 UJ	< 0.066 U	< 0.006 U	< 0.006 U	< 0.031 U	< 0.006 U	< 0.006 U	< 0.03 U	< 0.006 U	< 0.006 U	< 0.006 U	NS	NS	NS	NS

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-19 11/6/2011 SB-19(85-87.5)110611 N 85-87.5 460334711	SB-20 9/24/2011 SB-20(1-2)092411 N 1-2 460316291	SB-20 9/25/2011 SB-20(72.5-75)092511 N 72.5-75 460316291	SB-20 9/25/2011 SB-20(108-110)092511 N 108-110 460316291	SB-21 9/22/2011 SB-21(0-5)092211 N 0-5 460315781	SB-22 9/19/2011 SB-22(0-5)091911 N 0-5 460315781	SB-22 10/20/2011 SB-22 (84-85) N 84-85 460327321	SB-22 10/20/2011 SB-22 (107.5-110) N 107.5-110 460327321	SB-23 9/27/2011 SB-23(89-90)092711 N 89-90 460316541	SB-23 9/27/2011 SB-23(90-92.5)092711 N 90-92.5 460316541	SB-24 10/25/2011 SB-24(98.5-99)102511 N 98.5-99 460328301	SB-24 10/25/2011 SB-24(108-110)102511 N 108-110 460328301	SB-29 9/23/2011 SB-29(0-5)092311 N 0-5 460315781	SB-29 9/23/2011 SB-29(98)092311 N 98-98 460315781	SB-29 9/23/2011 SB-29(98-100)092311 N 98-100 460315781	SB-30 10/23/2011 SB-30(3-5)102311 N 3-5 460330951	SB-30 10/29/2011 SB-30(78-79)102911 N 78-79 460330951	SB-30 10/29/2011 DUP-1-102911 FD 78-79 460330951	SB-30 10/29/2011 SB-30(92-94)102911 N 92-94 460330951
BTEX (mg/Kg)																					
Benzene	0.06	89	< 0.0011 U	**0.018 J**	**0.065 J**	**0.026**	< 0.0011 U	< 0.0011 U	**0.012**	**0.49 J**	< 0.0011 U	< 0.0012 U	**0.015 J**	**0.0024**	**0.042**	**120**	**0.00088 J**	**0.0011**	**0.19 J**	**1.8 J**	< 0.0013 U
Ethylbenzene	1	780	**0.00025 J**	**0.11**	**0.27**	**0.0063**	< 0.0011 U	< 0.0011 U	**0.0066**	**0.15**	< 0.0011 U	< 0.0012 U	**1.3**	< 0.0013 U	**0.019**	**48**	**0.00094 J**	**0.0065**	**3.7 J**	**11 J**	< 0.0013 U
m+p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.00050 J**	**0.083 J**	**0.099 J**	**0.018**	< 0.0011 U	< 0.0011 U	**0.0037**	**1.3 J**	< 0.0011 U	< 0.0012 U	**0.52**	< 0.0013 U	**0.049**	**90**	**0.0015**	**0.0091**	**3.6 J**	**17 J**	**0.00050 J**
Xylenes (total)	0.26	1000	ND	**0.39**	**0.43**	**0.02**	ND	ND	**0.011**	**1.2**	ND	ND	**8.2**	ND	ND	**44**	**0.0016**	**0.02**	**17**	**52**	ND
Total BTEX (calculated)	NL	NL	**0.00075**	**0.601**	**0.864**	**0.0703**	ND	ND	**0.0333**	**3.14**	ND	ND	**10.035**	**0.0024**	**0.11**	**302**	**0.00492**	**0.0367**	**24.49**	**81.8**	**0.0005**
VOC (mg/Kg)																					
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	0.27	480	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	0.02	60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	0.05	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	0.76	44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	0.37	700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	0.25	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyclohexane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether	0.93	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylcyclohexane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	0.05	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.0011 U	< 0.1 U	**0.16**	**0.0044**	< 0.0011 U	< 0.0011 U	**0.0070**	**0.066 J**	< 0.0011 U	< 0.0012 U	**2.5**	< 0.0013 U	**0.01**	**2.5**	< 0.0011 U	**0.0051**	**9.1 J**	**28 J**	< 0.0013 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	0.19	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	0.47	400	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	TP-04	TP-04	TP-08	TP-12	TP-12A	TP-16	TP-17	SB-25	SB-25	SB-26	SB-26	SB-31	SB-31	SB-27	SB-27	SB-28	SB-28	SB-32	SB-33	SB-33	SB-34	SB-34
Sample Date			9/9/2011	9/9/2011	9/1/2011	9/7/2011	9/8/2011	9/2/2011	9/7/2011	7/24/2012	7/24/2012	7/25/2012	7/26/2012	7/14/2012	7/14/2012	1/11/2013	1/11/2013	1/10/2013	1/10/2013	1/8/2013	1/15/2013	1/15/2013	1/21/2013	1/21/2013
Sample ID			TP-4(3-4)	TP-4(7-7.5)	TP-8(6.4-6.7)	TP-12(4-5)	TP-12A (4-5)	TP-16(5-6)	TP-17(6-6.67)	SB-25 (92-93)072412	SB-25 (103-105)072412	SB-26 (75-80)072512	SB-26 (88-90)072612	SB-31 (33-35)071412	SB-31 (38-40)071412	SB-27 (80-85)	SB-27 (90-92)	SB-28 (33-35)	SB-28 (65-66)	SB-32 (64-66)	SB-33 (35-36)	SB-33 (50-54)	SB-34 (35-36)	DUPE-1-13
Sample Type			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD
Depth Interval			3-4	7-7.5	6.4-6.7	4-5	4-5	5-6	6-6.67	92-93	103-105	75-80	88-90	33-35	38-40	80-85	90-92	33-35	65-66	64-66	35-36	50-54	35-36	35-36
SDG			K1658	K1658	K1658	K1658	K1658	K1658	K1658	460429191	460429191	460429191	460429191	460424561	460424561	460493851	460493851	460493851	460493851	460492381	460495931	460495931	460498271	460498271
BTEX (mg/Kg)																								
Benzene	0.06	89	R	R	< 0.0061 U	**0.085**	< 0.0059 U	**71**	< 0.0061 U	**0.0019**	**0.00024 J**	**0.021**	**0.00031 J**	**0.0016**	**9.4**	**350**	**0.076**	**0.0041**	< 0.00078 U	< 0.00081 U	**100**	**0.00035 J**	**0.0045 J**	**0.0062 J**
Ethylbenzene	1	780	R	R	< 0.0061 U	**0.0070**	< 0.0059 U	< 46 U	< 0.0061 U	**0.0016**	< 0.0011 U	**0.0055**	< 0.0010 U	**0.00025 J**	**15**	**53**	< 0.0010 U	**0.00079**	< 0.00078 U	< 0.00081 U	**150**	**0.00033 J**	**0.0015 J**	**0.0042 J**
m+p-Xylene	NL	NL	R	R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**260**	< 0.0020 U	**0.00055 J**	< 0.0016 U	< 0.0016 U	**310**	**0.00068 J**	< 0.0015 UJ	< 0.0016 UJ
o-Xylene	NL	NL	R	R	< 0.0061 U	**0.041**	< 0.0059 U	**53**	**0.0019 J**	NS	NS	NS	NS	NS	NS	**120**	**0.00023 J**	**0.00032 J**	< 0.00078 U	< 0.00081 U	**150**	**0.00033 J**	< 0.00074 UJ	**0.00025 J**
p-Xylene	NL	NL	NS	NS	< 0.0061 U	**0.086**	< 0.0059 U	**140**	**0.0029 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	R	R	< 0.0061 U	**0.1**	< 0.0059 U	**120**	**0.0016 J**	**0.00043 J**	**0.00052 J**	**0.0080**	< 0.0010 U	**0.00051 J**	**20**	**500**	**0.0012**	**0.00024 J**	**0.00013 J**	**0.00020 J**	**300**	**0.00061 J**	**0.00026 J**	**0.00031 J**
Xylenes (total)	0.26	1000	R	R	ND	**0.127**	ND	**193**	**0.0048**	ND	ND	**0.01**	ND	ND	**54**	**380**	**0.00023**	**0.00087**	ND	ND	**460**	**0.00101**	ND	**0.00025**
Total BTEX (calculated)	NL	NL	R	R	ND	**0.319**	ND	**384**	**0.0064**	**0.00393**	**0.00076**	**0.0445**	**0.00031**	**0.00236**	**98.4**	**1283**	**0.07743**	**0.006**	**0.00013**	**0.0002**	**1010**	**0.0023**	**0.00626**	**0.01096**
VOC (mg/Kg)																								
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1,2,2-Tetrachloroethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1,2-Trichloroethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1-Dichloroethane	0.27	480	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1-Dichloroethene	0.33	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2-Dibromoethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2-Dichlorobenzene	1.1	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2-Dichloroethane	0.02	60	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,2-Dichloropropane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
1,4-Dioxane	0.1	250	NS	NS	NS	NS	NS	NS	NS	< 0.055 UJ	< 0.057 UJ	< 0.054 UJ	< 0.051 UJ	< 0.064 UJ	< 62 UJ	< 60 UJ	< 0.05 UJ	< 0.038 UJ	< 0.039 UJ	< 0.041 UJ	< 94 UJ	< 0.036 UJ	< 0.037 UJ	< 0.041 UJ
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.0040 J**	< 0.011 U	< 0.011 U	< 0.01 U	< 0.013 U	< 6.2 U	< 6 U	**0.0027 J**	**0.0046 J**	**0.0037 J**	**0.0099 J**	< 9.4 U	**0.0018 J**	**0.0025 J**	**0.0034 J**
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.01 U	< 0.013 U	< 6.2 U	< 6 U	< 0.01 U	< 0.0076 U	< 0.0078 U	< 0.0081 U	< 9.4 U	< 0.0072 UJ	< 0.0074 UJ	< 0.0082 UJ
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.011 U	< 0.011 U	< 0.011 U	< 0.01 U	< 0.013 U	< 6.2 U	< 6 U	< 0.01 U	< 0.0076 U	< 0.0078 U	< 0.0081 U	< 9.4 U	< 0.0072 UJ	< 0.0074 UJ	< 0.0082 UJ
Acetone	0.05	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.032**	**0.029**	**0.048**	< 0.013 U	< 0.016 U	< 6.2 U	R	< 0.01 U	< 0.0076 U	< 0.0078 U	**0.037 J**	R	< 0.0072 U	< 0.013 U	< 0.013 U
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Bromodichloromethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Bromoform	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 UJ	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 UJ	< 1.9 UJ	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Bromomethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Carbon disulfide	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.0019 J**	**0.00023 J**	**0.00043 J**	**0.00057 J**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	**0.0036**	**0.00013 J**	**0.0015**	< 1.9 U	< 0.00072 UJ	**0.00022 J**	**0.00027 J**
Carbon tetrachloride	0.76	44	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Chlorobenzene	1.1	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Chloroform	0.37	700	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Chloromethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 UJ	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
cis-1,2-Dichloroethene	0.25	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.00080 J**	< 0.0011 U	**0.0012**	**0.0043**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	**0.0019**	**0.00027 J**	< 0.00081 U	< 1.9 U	< 0.00072 UJ	**0.011 J**	**0.0068 J**
cis-1,3-Dichloropropene	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Cyclohexane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 UJ	< 0.0011 UJ	< 0.0011 UJ	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Dibromochloromethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	R	**0.19 J**	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.00015 J**	< 0.0011 U	**0.00022 J**	< 0.0010 U	< 0.0013 U	**0.35 J**	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	**2.7**	< 0.00072 UJ	**0.00012 J**	**0.00020 J**
Methyl acetate	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 2.5 U	< 2.4 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 3.8 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Methyl tert-butyl ether	0.93	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	**0.0027**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	**0.00036 J**	< 0.00081 U	< 1.9 U	< 0.00072 UJ	**0.0047 J**	**0.0028 J**
Methylcyclohexane	NL	NL	R	**0.41 J**	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 UJ	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Methylene chloride	0.05	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	**0.0049 J**	**0.0078**	**0.017**	**0.011**	< 0.0017 U	< 0.0041 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 U	**0.00025 J**	**0.00027 J**
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	R	R	< 0.0061 U	**0.033**	< 0.0059 U	**57**	< 0.0061 U	< 0.0011 U	< 0.0011 U	**0.0070**	< 0.0010 U	< 0.0013 U	**37**	**360**	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	**280**	**0.00035 J**	< 0.00074 UJ	< 0.00082 UJ
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.00037 J**	< 0.0011 U	**0.0046**	**0.2**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	**0.0024**	< 0.00081 U	**0.36 J**	< 0.00072 UJ	**0.29 J**	**0.24 J**
trans-1,2-Dichloroethene	0.19	1000	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.0016**	< 0.0011 U	< 0.0011 U	**0.0036**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	**0.00028 J**	**0.00016 J**	< 0.00081 U	< 1.9 U	< 0.00072 UJ	**0.0025 J**	**0.0018 J**
trans-1,3-Dichloropropene	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 UJ	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Trichloroethene	0.47	400	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	**0.0012**	< 0.0011 U	**0.0050**	**0.011**	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	**0.00037 J**	**0.00057 J**	< 0.00081 U	< 1.9 U	< 0.00072 UJ	**0.021 J**	**0.015 J**
Trichlorofluoromethane	NL	NL	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	R	R	< 0.0061 U	< 0.0061 U	< 0.0059 U	< 46 U	< 0.0061 U	< 0.0011 U	< 0.0011 U	< 0.0011 U	< 0.0010 U	< 0.0013 U	< 1.2 U	< 1.2 U	< 0.0010 U	< 0.00076 U	< 0.00078 U	< 0.00081 U	< 1.9 U	< 0.00072 UJ	< 0.00074 UJ	< 0.00082 UJ

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-34 1/21/2013 SB-34 (97-98) N 97-98 460498271	SB-35 1/22/2013 SB-35 (35-36) N 35-36 460498271	SB-35 1/22/2013 SB-35 (44-45) N 44-45 460498271	T1-SB7 5/21/2014 T1-SB7 (16.5-17.5) N 16.5-17.5 MC30823	T1-SB7 5/21/2014 T1-SB7 (22-23) N 22-23 MC30823	T1-SB8 5/21/2014 T1-SB8 (17-18.5) N 17-18.5 MC30823	T1-SB8 5/21/2014 T1-SB8 (23-24) N 23-24 MC30823	T1-SB9 5/21/2014 T1-SB9 (15-18) N 15-18 MC30823	T1-SB9 5/21/2014 T1-SB9 (18-20) N 18-20 MC30823	T1-SB9 5/21/2014 DUP-5/21/14 FD 18-20 MC30823	T2-SB1 5/20/2014 T2-SB1 (15-20) N 15-20 MC30767	T2-SB1 5/20/2014 T2-SB1 (21-22) N 21-22 MC30767	T2-SB4 5/20/2014 T2-SB4 (5-10) N 5-10 MC30823	T5-SB2 10/15/2014 T5-SB2(18-19)101514 N 18-19 MC34374	T5-SB2 10/15/2014 T5-SB2(21.5-25)101514 N 21.5-25 MC34374	T5-SB7 10/13/2014 T5-SB7 (10-11)101314 N 10-11 MC34323	T5-SB7 10/13/2014 T5-SB7 (11.5-15)101314 N 11.5-15 MC34323	SB-40 4/1/2015 SB40 (9-10)_460-92568-1 N 9-10 92355, 92511, 92568	SB-40 4/1/2015 SB40 (20-23.5)_460-92568-2 N 20-23.5 92355, 92511, 92568
BTEX (mg/Kg)																					
Benzene	0.06	89	**0.00019 J**	**0.0041**	**0.0094**	**1.27**	**0.00046**	**21.8**	**7.12**	< 0.13 U	< 0.36 U	< 0.37 U	< 0.036 U	**3.24**	**0.195**	**20.3**	< 0.0013 U	**0.121**	**0.0011**	**0.00060 J**	**3.7**
Ethylbenzene	1	780	**0.00024 J**	**0.00074 J**	**0.053**	< 0.19 U	< 0.0014 U	**145**	**0.702**	< 0.52 U	**2.8**	**3.37**	< 0.14 U	< 0.24 U	**0.149**	**292**	< 0.0051 U	< 0.3 U	< 0.0043 U	**0.0024**	**110**
m+p-Xylene	NL	NL	< 0.0019 UJ	< 0.0022 U	**0.05**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**0.0024**	**110**
o-Xylene	NL	NL	< 0.00095 UJ	**0.00040 J**	**0.045**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**0.0016**	**61**
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.00038 J**	**0.00069 J**	**0.0093**	< 0.47 U	< 0.0035 U	< 10 U	**3.69**	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	**0.0024**	**18**
Xylenes (total)	0.26	1000	ND	**0.0004**	**0.095**	**0.27**	ND	**62**	**0.735**	ND	**3.69**	**4.55**	**0.307**	ND	**0.759**	**311**	ND	ND	ND	**0.004**	**171**
Total BTEX (calculated)	NL	NL	**0.00081**	**0.00593**	**0.1667**	**1.54**	**0.00046**	**228.8**	**12.247**	ND	**6.49**	**7.92**	**0.307**	**3.24**	**1.103**	**623.3**	ND	**0.121**	**0.0011**	**0.0094**	**302.7**
VOC (mg/Kg)																					
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.00095 UJ	< 0.0011 J	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 UJ	< 1.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
1,1,2-Trichloroethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,1-Dichloroethane	0.27	480	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,1-Dichloroethene	0.33	1000	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	R
1,2-Dibromoethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
1,2-Dichlorobenzene	1.1	1000	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	**1.65**	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	**0.196**	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,2-Dichloroethane	0.02	60	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,2-Dichloropropane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	**0.248**	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	**3.19**	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
1,4-Dioxane	0.1	250	< 0.047 UJ	< 0.054 UJ	< 0.054 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.02 U	< 27 U
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	**0.0053 J**	**0.0035 J**	**0.013 J**	< 0.93 U	< 0.0070 U	< 21 U	< 1.1 U	< 2.6 U	< 7.1 U	< 7.5 U	< 0.72 U	< 1.2 U	< 0.56 U	< 66 U	< 0.026 U	< 1.5 U	< 0.022 U	**0.0052 J**	< 5.3 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.0095 UJ	< 0.011 U	< 0.011 U	< 0.93 U	< 0.0070 U	< 21 U	< 1.1 U	< 2.6 U	< 7.1 U	< 7.5 U	< 0.72 U	< 1.2 U	< 0.56 U	< 66 U	< 0.026 U	< 1.5 U	< 0.022 U	< 0.0050 U	< 5.3 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.0095 UJ	< 0.011 U	< 0.011 U	< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	< 0.0050 U	< 5.3 U
Acetone	0.05	1000	**0.037 J**	< 0.012 U	**0.044 J**	**1.01**	**0.0080**	< 21 U	< 1.1 U	< 2.6 U	< 7.1 U	< 7.5 U	< 0.72 U	< 1.2 U	< 0.56 U	< 66 U	**0.0324**	< 1.5 U	< 0.022 U	**0.023 J+**	< 5.3 U
Acrolein	NL	NL	NS	NS	NS	< 2.3 U	< 0.018 U	< 52 U	< 2.8 U	< 6.5 U	< 18 U	< 19 U	< 1.8 U	< 3 U	< 1.4 U	< 170 U	< 0.064 U	< 3.8 U	< 0.054 U	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	< 2.3 U	< 0.018 U	< 52 U	< 2.8 U	< 6.5 U	< 18 U	< 19 U	< 1.8 U	< 3 U	< 1.4 U	< 170 U	< 0.064 U	< 3.8 U	< 0.054 U	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
Bromodichloromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Bromoform	NL	NL	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 UJ	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Bromomethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Carbon disulfide	NL	NL	**0.00076 J**	**0.011 J**	**0.012**	< 0.47 U	**0.0039**	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	**0.167**	< 0.76 U	**0.0113**	< 0.00099 U	< 1.1 U
Carbon tetrachloride	0.76	44	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Chlorobenzene	1.1	1000	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	**10.9**	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	< 0.00099 U	< 1.1 U
Chloroform	0.37	700	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Chloromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	< 0.00099 UJ	< 1.1 U
cis-1,2-Dichloroethene	0.25	1000	< 0.00095 UJ	**0.016 J**	**0.0066**	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
cis-1,3-Dichloropropene	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Cyclohexane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
Dibromochloromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
Hexachlorobutadiene	NL	NL	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	< 0.00095 UJ	< 0.0011 U	**0.011**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	**10**
Methyl acetate	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.0050 UJ	< 5.3 U
Methyl tert-butyl ether	0.93	1000	< 0.00095 UJ	**0.00076 J**	**0.00030 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
Methylcyclohexane	NL	NL	< 0.00095 UJ	< 0.0011 U	**0.00035 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.00099 U	< 1.1 U
Methylene chloride	0.05	1000	**0.00039 J**	**0.00031 J**	**0.00039 J**	< 0.19 U	< 0.0016 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.00095 UJ	< 0.0011 UJ	< 0.0011 U	< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 U	< 33 U	< 0.013 U	< 0.76 U	< 0.011 U	**0.00016 J**	< 1.1 U
tert-Butylbenzene	5.9	1000	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.00095 UJ	< 0.0011 UJ	**0.0015**	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
trans-1,2-Dichloroethene	0.19	1000	< 0.00095 UJ	**0.0012 J**	**0.00076 J**	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
trans-1,3-Dichloropropene	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Trichloroethene	0.47	400	< 0.00095 UJ	**0.00077 J**	**0.0037**	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Trichlorofluoromethane	NL	NL	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 U	< 1.1 U
Vinyl Acetate	NL	NL	NS	NS		< 0.47 U	< 0.0035 U	< 10 U	< 0.57 U	< 1.3 U	< 3.6 U	< 3.7 U	< 0.36 U	< 0.6 U	< 0.28 UJ	< 33 U	< 0.013 U	< 0.76 UJ	< 0.011 U	NS	NS
Vinyl chloride	0.02	27	< 0.00095 UJ	< 0.0011 U	< 0.0011 U	< 0.19 U	< 0.0014 U	< 4.1 U	< 0.23 U	< 0.52 U	< 1.4 U	< 1.5 U	< 0.14 U	< 0.24 U	< 0.11 U	< 13 U	< 0.0051 U	< 0.3 U	< 0.0043 U	< 0.00099 UJ	< 1.1 U

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-40 4/1/2015 SB40 (50-55)_460-92568-3 N 50-55 92355, 92511, 92568	SB-41 3/31/2015 SB41 (5-10)_460-92568-4 N 5-10 92355, 92511, 92568	SB-41 4/1/2015 SB41 (35-37)_460-92568-5 N 35-37 92355, 92511, 92568	SB-41 4/1/2015 SB41 (38-39)_460-92568-6 N 38-39 92355, 92511, 92568	SB-42 3/30/2015 SB42(9-10)_460-92511-1 N 9-10 92355, 92511, 92568	SB-42 3/30/2015 SB42(35-37.5)_460-92511-2 N 35-37.5 92355, 92511, 92568	SB-42 3/30/2015 SB42(49-50)_460-92511-3 N 49-50 92355, 92511, 92568	SB-43 3/26/2015 SB43 (8-9)_460-92355-1 N 8-9 92355, 92511, 92568	SB-43 3/26/2015 SB43 (45-48)_460-92355-2 N 45-48 92355, 92511, 92568	SB-43 3/26/2015 DUPE-032615_460-92355-4 FD 45-48 92355, 92511, 92568	SB-43 3/26/2015 SB43 (49-50)_460-92355-3 N 49-50 92355, 92511, 92568	SB-44 3/27/2015 SB44 (9-10)_460-92355-5 N 9-10 92355, 92511, 92568	SB-44 3/27/2015 SB44 (38-40)_460-92355-6 N 38-40 92355, 92511, 92568	SB-44 3/27/2015 SB44 (49-50)_460-92355-7 N 49-50 92355, 92511, 92568
BTEX (mg/Kg)																
Benzene	0.06	89	**0.00048 J**	< 0.0012 U	**5**	**0.34**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.013**	**48 J**	**470 J**	**0.01**	**0.00052 J**	**2.5**	< 0.0013 U
Ethylbenzene	1	780	**0.0038**	< 0.0012 UJ	**0.74**	**0.0098**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.0067**	**31 J**	**200 J**	**0.0015**	**0.00022 J**	**1.5**	< 0.0013 U
m+p-Xylene	NL	NL	**0.0030**	< 0.0012 U	**4.5**	**0.05**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.0078**	**86 J**	**690 J**	**0.0040**	**0.00047 J**	**0.16**	< 0.0013 U
o-Xylene	NL	NL	**0.0019**	< 0.0012 U	**2.1**	**0.031**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.0034**	**42 J**	**330 J**	**0.0025**	**0.00035 J**	**0.15**	< 0.0013 U
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.00091 J**	< 0.0012 UJ	**6.8**	**0.16**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.012**	**90 J**	**820 J**	**0.012**	**0.00083 J**	**0.16**	< 0.0013 U
Xylenes (total)	0.26	1000	**0.0049**	ND	**6.6**	**0.081**	ND	ND	ND	**0.0112**	**128**	**1020**	**0.0065**	**0.00082**	**0.31**	ND
Total BTEX (calculated)	NL	NL	**0.01009**	ND	**19.14**	**0.5908**	ND	ND	ND	**0.0429**	**297**	**2510**	**0.03**	**0.00239**	**4.47**	ND
VOC (mg/Kg)																
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 UJ	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 UJ	< 2.4 UJ	< 0.0014 U	< 0.0011 U	< 0.12 UJ	< 0.0013 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,1,2-Trichloroethane	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,1-Dichloroethane	0.27	480	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,1-Dichloroethene	0.33	1000	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 UJ	< 2.4 UJ	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 UJ	< 2.4 UJ	< 0.0014 U	< 0.0011 U	< 0.12 UJ	< 0.0013 U
1,2-Dibromoethane	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,2-Dichlorobenzene	1.1	1000	**0.00038 J**	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,2-Dichloroethane	0.02	60	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,2-Dichloropropane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	**0.00017 J**	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
1,4-Dioxane	0.1	250	< 0.022 U	< 0.025 U	< 2.4 U	< 0.025 U	< 0.021 U	< 0.019 U	< 0.02 U	< 0.029 U	< 5.3 U	< 59 U	< 0.029 U	< 0.023 U	< 3.1 U	< 0.025 U
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.0056 U	< 0.0062 U	< 0.49 U	< 0.0061 U	**0.0047 J**	< 0.0047 U	< 0.0051 U	< 0.0072 U	< 1.1 U	< 12 U	< 0.0072 U	< 0.0057 U	< 0.61 U	< 0.0063 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.0056 U	< 0.0062 U	< 0.49 U	< 0.0061 U	< 0.0052 U	< 0.0047 U	< 0.0051 U	< 0.0072 U	< 1.1 UJ	< 12 UJ	< 0.0072 U	< 0.0057 U	< 0.61 UJ	< 0.0063 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.0056 U	< 0.0062 U	< 0.49 U	< 0.0061 U	< 0.0052 U	< 0.0047 U	< 0.0051 U	< 0.0072 U	< 1.1 UJ	< 12 UJ	< 0.0072 U	< 0.0057 U	< 0.61 UJ	< 0.0063 U
Acetone	0.05	1000	< 0.0056 U	< 0.0062 U	< 0.49 UJ	< 0.012 U	**0.016 J+**	< 0.0077 U	< 0.0066 U	< 0.0072 U	< 1.1 U	< 12 U	**0.018**	**0.014**	< 0.61 U	< 0.0081 U
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Bromodichloromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Bromoform	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 UJ	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Bromomethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 UJ	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Carbon disulfide	NL	NL	**0.00070 J**	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	**0.00049 J**	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	**0.00072 J**	< 0.0011 U	< 0.12 U	< 0.0013 U
Carbon tetrachloride	0.76	44	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Chlorobenzene	1.1	1000	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 UJ	< 0.00095 UJ	< 0.0010 UJ	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Chloroform	0.37	700	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Chloromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 UJ	< 0.0010 UJ	< 0.00095 UJ	< 0.0010 UJ	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
cis-1,2-Dichloroethene	0.25	1000	**0.0022**	< 0.0012 U	< 0.098 U	**0.0043**	< 0.0010 U	**0.00049 J**	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
cis-1,3-Dichloropropene	NL	NL	< 0.0011 U	< 0.0012 UJ	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Cyclohexane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	**0.00073 J**	< 0.12 U	< 0.0013 U
Dibromochloromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 UJ	< 0.0011 UJ	< 0.12 U	< 0.0013 UJ
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	**0.00092 J**	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	**0.8 J**	**4.6 J**	< 0.0014 U	< 0.0011 U	**0.12**	< 0.0013 U
Methyl acetate	NL	NL	< 0.0056 U	< 0.0062 U	< 0.49 UJ	< 0.0061 UJ	< 0.0052 U	< 0.0047 U	< 0.0051 U	< 0.0072 U	< 1.1 UJ	< 12 UJ	< 0.0072 U	< 0.0057 U	< 0.61 UJ	< 0.0063 U
Methyl tert-butyl ether	0.93	1000	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Methylcyclohexane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	**0.0011**	< 0.12 UJ	< 0.0013 U
Methylene chloride	0.05	1000	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	**0.00090 J**	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	**0.00073 J**	< 0.0012 UJ	**6.4**	**0.071**	< 0.0010 U	< 0.00095 U	< 0.0010 U	**0.0016**	**96 J**	**820 J**	**0.0035**	< 0.0011 U	**0.12**	< 0.0013 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	**0.033**	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	**0.0012**	**0.00082 J**	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
trans-1,2-Dichloroethene	0.19	1000	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
trans-1,3-Dichloropropene	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Trichloroethene	0.47	400	**0.00080 J**	< 0.0012 U	< 0.098 U	**0.0016**	< 0.0010 U	**0.00051 J**	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Trichlorofluoromethane	NL	NL	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 U	< 0.0010 U	< 0.00095 U	< 0.0010 U	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.0011 U	< 0.0012 U	< 0.098 U	< 0.0012 UJ	< 0.0010 UJ	< 0.00095 UJ	< 0.0010 UJ	< 0.0014 U	< 0.21 U	< 2.4 U	< 0.0014 U	< 0.0011 U	< 0.12 U	< 0.0013 U

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-45 4/29/2015 SB-45 (10-11)_460-94062-1 N 10-11 94062, 94148	SB-45 4/29/2015 SB-45 (18-20)_460-94062-2 N 18-20 94062, 94148	SB-45 4/29/2015 SB-45 (45-48)_460-94062-4 N 45-48 94062, 94148	SB-45 4/29/2015 SB-45 (50-55)_460-94062-3 N 50-55 94062, 94148	SB-46 5/1/2015 SB-46 (11-15)_460-94148-5 N 11-15 94062, 94148	SB-46 5/1/2015 SB-46 (40-43)_460-94148-7 N 40-43 94062, 94148	SB-46 5/1/2015 SB-46 (45-50)_460-94148-6 N 45-50 94062, 94148	SB-47 4/30/2015 SB-47 (10-14)_460-94148-1 N 10-14 94062, 94148	SB-47 4/30/2015 SB-47 (17-19)_460-94148-2 N 17-19 94062, 94148	SB-47 4/30/2015 SB-47 (45-50)_460-94148-3 N 45-50 94062, 94148	SB-47 4/30/2015 DUP-01_460-94148-4 FD 45-50 94062, 94148
BTEX (mg/Kg)													
Benzene	0.06	89	**0.00047 J**	**0.89 J**	**0.012**	< 0.0013 U	< 0.0014 UJ	**0.19 J**	< 0.0011 U	**0.0044 J**	**0.049**	**0.00039 J**	**0.00050 J**
Ethylbenzene	1	780	< 0.0014 U	**5.3**	**0.0018**	< 0.0013 U	< 0.0014 UJ	**0.071**	< 0.0011 U	< 0.0038 UJ	**0.0030**	< 0.0012 U	< 0.0012 U
m+p-Xylene	NL	NL	**0.00041 J**	**110**	**0.00077 J**	< 0.0013 U	< 0.0014 UJ	**0.017**	< 0.0011 U	**0.0030 J**	**0.00051 J**	< 0.0012 U	< 0.0012 U
o-Xylene	NL	NL	< 0.0014 U	**1.7 J**	**0.00055 J**	< 0.0013 U	< 0.0014 UJ	**0.016**	< 0.0011 U	**0.0018 J**	**0.00062 J**	< 0.0012 U	< 0.0012 U
p-Xylene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	0.7	1000	**0.00046 J**	< 3.2 U	**0.0014**	< 0.0013 U	< 0.0014 UJ	**0.00091 J**	< 0.0011 U	**0.0035 J**	**0.00087 J**	< 0.0012 U	< 0.0012 U
Xylenes (total)	0.26	1000	**0.00041**	**111.7**	**0.00132**	ND	ND	**0.033**	ND	**0.0048**	**0.00113**	ND	ND
Total BTEX (calculated)	NL	NL	**0.00134**	**117.89**	**0.01652**	ND	ND	**0.29491**	ND	**0.0127**	**0.054**	**0.00039**	**0.0005**
VOC (mg/Kg)													
1,1,1,2-Tetrachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	0.68	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1,2,2-Tetrachloroethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1,2-Trichloroethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1-Dichloroethane	0.27	480	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1-Dichloroethene	0.33	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,1-Dichloropropene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	**0.00047 J**	< 0.0012 U	< 0.0012 U
1,2,3-Trichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-Tetramethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,2,4-Trimethylbenzene	3.6	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,2-Dibromoethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,2-Dichlorobenzene	1.1	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	**0.0023**	< 0.0012 U	< 0.0012 U
1,2-Dichloroethane	0.02	60	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,2-Dichloropropane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
1,3,5-Trimethylbenzene	8.4	380	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	**0.00033 J**	< 0.0012 U	< 0.0012 U
1,3-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	**0.0034**	< 0.0012 U	< 0.0012 U
1,4-Dioxane	0.1	250	< 0.029 U	< 79 U	< 0.023 U	< 0.027 U	< 0.029 U	R	< 0.021 U	< 0.075 UJ	< 0.043 U	< 0.024 U	< 0.024 U
2,2-Dichloropropane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	0.12	1000	< 0.0071 U	< 16 U	< 0.0058 U	< 0.0067 U	< 0.0072 U	< 0.0060 U	< 0.0053 U	**0.055 J**	< 0.011 U	< 0.0059 U	< 0.0060 U
2-Chloroethylvinyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NL	NL	< 0.0071 U	< 16 U	< 0.0058 U	< 0.0067 U	< 0.0072 U	< 0.0060 U	< 0.0053 U	< 0.019 UJ	< 0.011 U	< 0.0059 U	< 0.0060 U
4-Chlorotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Ethyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	NL	NL	< 0.0071 U	< 16 U	< 0.0058 U	< 0.0067 U	< 0.0072 U	< 0.0060 U	< 0.0053 U	< 0.019 UJ	< 0.011 U	< 0.0059 U	< 0.0060 U
Acetone	0.05	1000	**0.017**	< 16 U	**0.014**	**0.014**	**0.017 J**	< 0.0060 U	< 0.0053 UJ	**0.13 J**	**0.023 J**	**0.015 J**	< 0.01 UJ
Acrolein	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	NL	NL	< 0.0014 UJ	< 3.2 U	< 0.0012 UJ	< 0.0013 UJ	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Bromodichloromethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Bromoform	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Bromomethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Carbon disulfide	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	**0.0057**	< 0.0011 U	**0.0053 J**	**0.0049**	< 0.0012 U	< 0.0012 U
Carbon tetrachloride	0.76	44	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Chlorobenzene	1.1	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	**0.00092 J**	**0.015**	< 0.0012 U	< 0.0012 U
Chlorodifluoromethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 U	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Chloroform	0.37	700	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Chloromethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 U	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
cis-1,2-Dichloroethene	0.25	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
cis-1,3-Dichloropropene	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Cyclohexane	NL	NL	< 0.0014 U	**31**	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	**0.0012 J**	< 0.0012 U	< 0.0012 U
Dibromochloromethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Dibromomethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 U	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NL	NL	< 0.0014 U	**6.5**	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	**0.0035 J+**	< 0.0011 U	< 0.0038 UJ	**0.0028**	< 0.0012 U	< 0.0012 U
Methyl acetate	NL	NL	< 0.0071 U	< 16 U	< 0.0058 U	< 0.0067 U	< 0.0072 UJ	< 0.0060 UJ	< 0.0053 UJ	< 0.019 UJ	< 0.011 UJ	< 0.0059 UJ	< 0.0060 UJ
Methyl tert-butyl ether	0.93	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	**0.00029 J**	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Methylcyclohexane	NL	NL	< 0.0014 U	**510**	**0.0010 J**	< 0.0013 U	**0.0034 J**	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Methylene chloride	0.05	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Naphthalene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	12	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	3.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Diethylbenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	11	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
tert-Butylbenzene	5.9	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	1.3	300	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
trans-1,2-Dichloroethene	0.19	1000	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
trans-1,3-Dichloropropene	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Trichloroethene	0.47	400	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Trichlorofluoromethane	NL	NL	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U
Vinyl Acetate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	0.02	27	< 0.0014 U	< 3.2 U	< 0.0012 U	< 0.0013 U	< 0.0014 UJ	< 0.0012 U	< 0.0011 U	< 0.0038 UJ	< 0.0021 U	< 0.0012 U	< 0.0012 U

Notes are on the last page.

Table 5-6
Summary of Subsurface Soil VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Notes:
mg/kg - milograms per kilogram
N - primary sample
FD - field duplicate sample
ND - Not Detected
NL - Not Listed
NS - Not Sampled
NYSDEC - New York State Department of Environmental Conservation
Bold indicates compound detected at a concentration greater than the reporting limit
Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value
Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values
Stippled fill indicates sample location was excavated during subsequent activities at the site.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N - (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ - (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).
[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-01C 10/20/2009 SB-1(5)102009 N 5-5 AECOM057	SB-01C 11/18/2009 SB-1C(23-25)111809 N 23-25 AECOM062	SB-01C 11/20/2009 SB-1C(80-81.5)112009 N 80-81.5 AECOM062	SB-01C 11/20/2009 SB-1C DUP01(112009) FD 80-81.5 AECOM062	SB-01C 11/23/2009 SB-1C(98-100)112309 N 98-100 AECOM062	SB-02B 10/13/2009 SB-2B(5)101309 N 5-5 AECOM056	SB-02B 10/14/2009 SB-2B(14-16)101409 N 14-16 AECOM057	SB-02B 10/14/2009 SB-2B(37-38)101409 N 37-38 AECOM057	SB-02B 10/14/2009 SB-2B(42-44)101409 N 42-44 AECOM057	SB-03B 9/28/2009 SB-3(4-5)092809 N 4-5 AECOM049	SB-03B 10/20/2009 SB-3(36-38)102009 N 36-38 AECOM058	SB-03B 10/21/2009 SB-3(46-48)102109 N 46-48 AECOM058	SB-04 9/24/2009 SB-4(1-2)092409 N 1-2 AECOM050	SB-04C 10/7/2009 SB-4(36-38)100709 N 36-38 AECOM057	SB-04C 10/8/2009 SB-4(44-46)100809 N 44-46 AECOM057
PAH (mg/Kg)																	
2-Methylnaphthalene	NL	NL	**0.47**	**0.2 J**	**310 D**	**270 D**	**0.13 J**	**1.3**	**160**	**790**	**0.46**	< 0.37 U	**4300 J**	**0.37 J**	**700**	< 0.4 U	< 0.41 U
Acenaphthene	20	1000	**0.11 J**	< 0.51 U	**8.2**	**7.6**	< 0.46 U	**2.3**	**37 J**	**48**	**0.14 J**	< 0.37 U	**340 J**	**0.12 J**	**36 J**	< 0.4 U	< 0.41 U
Acenaphthylene	100	1000	**0.13 J**	< 0.51 U	**60**	**55**	< 0.46 U	**2.1**	**3.8**	**270**	< 0.44 U	< 0.37 U	**1800 J**	< 0.44 U	**380**	< 0.4 U	< 0.41 U
Anthracene	100	1000	**0.37 J**	< 0.51 U	**33**	**30**	< 0.46 U	**10**	**46**	**170**	**0.11 J**	**0.1 J**	**1100 J**	**0.11 J**	**460**	< 0.4 U	< 0.41 U
Benzo(a)anthracene	1	11	**1.2**	< 0.51 U	**20**	**18**	< 0.46 U	**28**	**31 J**	**110**	**0.22 J**	**0.47**	**810 J**	< 0.44 U	**510**	< 0.4 U	< 0.41 U
Benzo(a)pyrene	1	1.1	**1.1**	< 0.51 U	**15**	**13**	< 0.46 U	**23**	**20 J**	**75 J**	**0.15 J**	**0.42**	**500 J**	< 0.44 U	**340**	< 0.4 U	< 0.41 U
Benzo(b)fluoranthene	1	11	**1**	< 0.51 U	**9.6**	**8.6**	< 0.46 U	**25**	**9.6 J**	**41 J**	< 0.44 U	**0.42**	**260 J**	< 0.44 U	**330**	< 0.4 U	< 0.41 U
Benzo(ghi)perylene	100	1000	**0.4**	< 0.51 U	**4.4**	**3.3 J**	< 0.46 U	**4.4 J**	**2.6 J**	**12 J**	< 0.44 U	**0.2 J**	**71 J**	< 0.44 U	**150 J**	< 0.4 U	< 0.41 U
Benzo(k)fluoranthene	0.8	110	**0.79**	< 0.51 U	**7.2**	**6.3**	< 0.46 U	**10**	**16 J**	**47 J**	**0.21 J**	**0.26 J**	**370 J**	< 0.44 U	**190 J**	< 0.4 U	< 0.41 U
Chrysene	1	110	**1.2**	< 0.51 U	**19**	**17**	< 0.46 U	**28**	**29 J**	**110**	**0.22 J**	**0.4**	**780 J**	**0.096 J**	**360**	< 0.4 U	< 0.41 U
Dibenz(a,h)anthracene	0.33	1.1	**0.27 J**	< 0.51 U	**3.2 J**	**2.3 J**	< 0.46 U	**2.4 J**	**1.7 J**	**7.9 J**	< 0.44 U	< 0.37 U	**42 J**	< 0.44 U	**29 J**	< 0.4 U	< 0.41 U
Fluoranthene	100	1000	**2.2**	< 0.51 U	**32**	**30**	< 0.46 U	**71**	**51**	**170**	**0.29 J**	**0.8**	**1200 J**	**0.15 J**	**1500**	**0.09 J**	< 0.41 U
Fluorene	30	1000	**0.15 J**	< 0.51 U	**46**	**40**	< 0.46 U	**5.8**	**41**	**180**	**0.17 J**	< 0.37 U	**1500 J**	**0.15 J**	**590**	< 0.4 U	< 0.41 U
Indeno(1,2,3-cd)pyrene	0.5	11	**0.52**	< 0.51 U	**5.2**	**4**	< 0.46 U	**5.7 J**	**2.7 J**	**13 J**	< 0.44 U	**0.19 J**	**65 J**	< 0.44 U	**160 J**	< 0.4 U	< 0.41 U
Naphthalene	12	1000	**1.2**	**0.33 J**	**550 D**	**520 D**	**0.35 J**	**3**	**310**	**1400**	**4.8**	< 0.37 U	**7800 J**	**1.9**	**4800**	**0.15 J**	< 0.41 U
Phenanthrene	100	1000	**1.4**	< 0.51 U	**150 D**	**120 D**	**0.095 J**	**51**	**150**	**620**	**0.36 J**	**0.46**	**4500 J**	**0.47**	**2000**	< 0.4 U	< 0.41 U
Pyrene	100	1000	**2.2**	< 0.51 U	**45**	**39**	< 0.46 U	**52**	**82**	**300**	**0.27 J**	**0.78**	**2100 J**	**0.22 J**	**960**	< 0.4 U	< 0.41 U
Total PAHs	NL	NL	**14.71**	**0.53**	**1317.8**	**1184.1**	**0.575**	**325**	**993.4**	**4363.9**	**7.4**	**4.5**	**27538**	**3.586**	**13495**	**0.24**	**ND**
SVOC (mg/Kg)																	
1,1'-Biphenyl	NL	NL	< 0.38 U	< 0.51 U	**25**	**22**	< 0.46 U	**0.48**	**22 J**	**78**	**0.091 J**	< 0.37 U	**510 J**	< 0.44 U	**110 J**	< 0.4 U	< 0.41 U
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2,4,6-Trichlorophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2,4-Dichlorophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
2,4-Dimethylphenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	**24 J**	< 0.4 U	< 0.41 U
2,4-Dinitrophenol	NL	NL	< 0.38 U	< 0.51 UJ	< 3.8 UJ	< 3.9 UJ	< 0.46 UJ	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2,4-Dinitrotoluene	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2,6-Dinitrotoluene	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2-Chloronaphthalene	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2-Chlorophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2-Methylphenol	0.33	1000	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	**4.4**	< 0.4 U	< 0.41 U
2-Nitroaniline	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
2-Nitrophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
3,3'-Dichlorobenzidine	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	R	< 0.4 U	< 0.41 U
3-and 4-Methylphenol	0.33	1000	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	**18**	< 0.4 U	< 0.41 U
3-Nitroaniline	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4-Bromophenyl phenyl ether	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4-Chloro-3-methylphenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
4-Chloroaniline	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4-Nitroaniline	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4-Nitrophenol	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Acetophenone	NL	NL	**0.39**	**0.11 J**	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	**0.099 J**	**0.12 J**
Atrazine	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Benzaldehyde	NL	NL	**0.46 J**	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 UJ	< 0.39 UJ	< 7.9 UJ	< 0.44 UJ	< 0.37 UJ	< 7.4 UJ	< 0.44 UJ	< 0.75 UJ	**0.13 J**	**0.57 J**
bis(2-Chloroethoxy)methane	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
bis(2-Chloroethyl) ether	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	**0.18 J**	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	R	< 0.4 U	< 0.41 U
Butyl benzyl phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	R	< 0.4 U	< 0.41 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-01C 10/20/2009 SB-1(5)102009 N 5-5 AECOM057	SB-01C 11/18/2009 SB-1C(23-25)111809 N 23-25 AECOM062	SB-01C 11/20/2009 SB-1C(80-81.5)112009 N 80-81.5 AECOM062	SB-01C 11/20/2009 SB-1C DUP01(112009) FD 80-81.5 AECOM062	SB-01C 11/23/2009 SB-1C(98-100)112309 N 98-100 AECOM062	SB-02B 10/13/2009 SB-2B(5)101309 N 5-5 AECOM056	SB-02B 10/14/2009 SB-2B(14-16)101409 N 14-16 AECOM057	SB-02B 10/14/2009 SB-2B(37-38)101409 N 37-38 AECOM057	SB-02B 10/14/2009 SB-2B(42-44)101409 N 42-44 AECOM057	SB-03B 9/28/2009 SB-3(4-5)092809 N 4-5 AECOM049	SB-03B 10/20/2009 SB-3(36-38)102009 N 36-38 AECOM058	SB-03B 10/21/2009 SB-3(46-48)102109 N 46-48 AECOM058	SB-04 9/24/2009 SB-4(1-2)092409 N 1-2 AECOM050	SB-04C 10/7/2009 SB-4(36-38)100709 N 36-38 AECOM057	SB-04C 10/8/2009 SB-4(44-46)100809 N 44-46 AECOM057
Caprolactam	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
Carbazole	NL	NL	**0.11 J**	< 0.51 U	**1 J**	**0.92 J**	< 0.46 U	**3.2**	**0.55**	**5.1 J**	< 0.44 U	< 0.37 U	**43 J**	< 0.44 U	**210 J**	< 0.4 U	< 0.41 U
Diethyl phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Dimethyl phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Di-n-butyl phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Di-n-octyl phthalate	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 UJ	R	< 7.9 UJ	< 0.44 U	< 0.37 U	R	< 0.44 U	R	< 0.4 U	< 0.41 U
Hexachlorobutadiene	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
Hexachlorocyclopentadiene	NL	NL	< 0.38 UJ	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 UJ	< 0.75 U	< 0.4 U	< 0.41 U
Hexachloroethane	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Isophorone	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
Nitrobenzene	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 UJ	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 UJ	< 0.4 U	< 0.41 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
N-Nitrosodiphenylamine	NL	NL	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	**0.078 J**	< 0.51 U	**6.1**	**5.7**	< 0.46 U	**3.2**	**1.7**	**19**	**0.14 J**	< 0.37 U	**100 J**	< 0.44 U	**390**	< 0.4 U	< 0.41 U
Hexachlorobenzene	0.33	12	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Pentachlorophenol	0.8	55	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 UJ	< 0.44 U	< 0.75 U	< 0.4 U	< 0.41 U
Phenol	0.33	1000	< 0.38 U	< 0.51 U	< 3.8 U	< 3.9 U	< 0.46 U	< 0.39 U	< 0.39 U	< 7.9 U	< 0.44 U	< 0.37 U	< 7.4 U	< 0.44 U	**17 J**	< 0.4 U	< 0.41 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-05B 9/28/2009 SB-5(16-18)092809 N 16-18 AECOM049	SB-05B 9/28/2009 SB-5(28-30)092809 N 28-30 AECOM049	SB-05B 9/28/2009 SB-5(52-54)092809 N 52-54 AECOM049	SB-06B 10/14/2009 SB-6(6)101409 N 6-6 AECOM056	SB-06B 10/21/2009 SB-6(16-18)102109 N 16-18 AECOM057	SB-06B 10/21/2009 SB-6(26-28)102109 N 26-28 AECOM057	SB-06B 10/21/2009 SB-6(30-32)102109 N 30-32 AECOM057	SB-07A 10/5/2009 SB-7(6-8)100509 N 6-8 AECOM049	SB-07B 10/27/2009 SB-7(38-40)102709 N 38-40 AECOM058	SB-07B 10/27/2009 SB-7(44-46)102709 N 44-46 AECOM058	SB-08 9/27/2009 SB-8(2-3)092709 N 2-3 AECOM049	SB-08 10/18/2009 SB-8(24-26)101809 N 24-26 AECOM058	SB-09 9/27/2009 SB-9(4-5)092709 N 4-5 AECOM050	SB-09 9/27/2009 SB-9(20-21.5)092709 N 20-21.5 AECOM050	SB-09 9/27/2009 SB-9(36-38)092709 N 36-38 AECOM050
PAH (mg/Kg)																	
2-Methylnaphthalene	NL	NL	**710**	**58**	< 0.48 U	< 0.4 U	**0.86**	< 0.39 U	< 0.38 U	**7.9 J**	**0.11 J**	< 0.42 U	**0.26 J**	**4500 J**	**2**	< 0.65 U	**63**
Acenaphthene	20	1000	**220**	**3.3**	< 0.48 U	< 0.4 U	**0.18 J**	< 0.39 U	< 0.38 U	**8.8**	< 0.41 U	< 0.42 U	**0.44 J**	**370 J**	**0.98**	< 0.65 U	**34**
Acenaphthylene	100	1000	**64 J**	**23**	< 0.48 U	< 0.4 U	**0.18 J**	< 0.39 U	< 0.38 U	**2.8**	< 0.41 U	< 0.42 U	< 0.47 U	**1400 J**	**0.91**	< 0.65 U	**3.6**
Anthracene	100	1000	**100 J**	**11**	< 0.48 U	< 0.4 U	**0.38 J**	< 0.39 U	< 0.38 U	**18**	< 0.41 U	< 0.42 U	**1.3**	**730 J**	**3.2**	< 0.65 U	**21**
Benzo(a)anthracene	1	11	**63 J**	**6.3**	< 0.48 U	**0.23 J**	**0.96**	< 0.39 U	< 0.38 U	**19**	< 0.41 U	< 0.42 U	**2.5**	**420 J**	**6.3**	< 0.65 U	**16**
Benzo(a)pyrene	1	1.1	**25 J**	**4.5**	< 0.48 U	**0.17 J**	**0.62**	< 0.39 U	< 0.38 U	**11**	< 0.41 U	< 0.42 U	**1.9**	**270 J**	**4.6 J**	< 0.65 U	**10**
Benzo(b)fluoranthene	1	11	**22 J**	**3.7**	< 0.48 U	**0.2 J**	**0.32 J**	< 0.39 U	< 0.38 U	**13**	< 0.41 U	< 0.42 U	**2.4**	**230 J**	**6.3 J**	< 0.65 U	**7.4 J**
Benzo(ghi)perylene	100	1000	**5.2 J**	**0.68**	< 0.48 U	**0.1 J**	**0.19 J**	< 0.39 U	< 0.38 U	**1.8 J**	< 0.41 U	< 0.42 U	**0.48**	**38 J**	**1.1 J**	< 0.65 U	**1.5**
Benzo(k)fluoranthene	0.8	110	**4.2 J**	**1.2**	< 0.48 U	< 0.4 U	**0.6**	< 0.39 U	< 0.38 U	**5.3 J**	< 0.41 U	< 0.42 U	**1.1**	**200 J**	**2.5 J**	< 0.65 U	**3.2**
Chrysene	1	110	**55 J**	**5.7**	< 0.48 U	**0.25 J**	**1.1**	< 0.39 U	< 0.38 U	**15**	< 0.41 U	< 0.42 U	**2.3**	**450 J**	**5.5**	< 0.65 U	**14**
Dibenz(a,h)anthracene	0.33	1.1	**2 J**	**0.29 J**	< 0.48 U	< 0.4 U	**0.14 J**	< 0.39 U	< 0.38 U	**1.1 J**	< 0.41 U	< 0.42 U	**0.19 J**	**27 J**	**0.43 J**	< 0.65 U	**0.6**
Fluoranthene	100	1000	**110 J**	**13**	< 0.48 U	**0.41**	**1.1**	< 0.39 U	< 0.38 U	**63**	< 0.41 U	< 0.42 U	**5.7**	**930 J**	**18**	< 0.65 U	**27**
Fluorene	30	1000	**130 J**	**14**	< 0.48 U	< 0.4 U	**0.19 J**	< 0.39 U	< 0.38 U	**15**	< 0.41 U	< 0.42 U	**0.63**	**990 J**	**2.8**	< 0.65 U	**21**
Indeno(1,2,3-cd)pyrene	0.5	11	**4.6 J**	**0.65**	< 0.48 U	**0.11 J**	**0.2 J**	< 0.39 U	< 0.38 U	**2.6 J**	< 0.41 U	< 0.42 U	**0.54**	**48 J**	**1.2 J**	< 0.65 U	**1.3**
Naphthalene	12	1000	**1600**	**97**	< 0.48 U	**0.14 J**	**3.7**	**0.27 J**	**0.11 J**	**24**	**3.3**	< 0.42 U	**0.93**	**11000 J**	**15**	< 0.65 U	**27**
Phenanthrene	100	1000	**410**	**46**	< 0.48 U	**0.24 J**	**1.4**	< 0.39 U	< 0.38 U	**71**	< 0.41 U	< 0.42 U	**5**	**2700 J**	**17**	< 0.65 U	**86**
Pyrene	100	1000	**170 J**	**20**	< 0.48 U	**0.36 J**	**1.8**	< 0.39 U	< 0.38 U	**39**	< 0.41 U	< 0.42 U	**5.5**	**1200 J**	**14**	< 0.65 U	**41**
Total PAHs	NL	NL	**3695**	**308.32**	**ND**	**2.21**	**13.92**	**0.27**	**0.11**	**318.3**	**3.41**	**ND**	**31.17**	**25503**	**101.82**	**ND**	**377.6**
SVOC (mg/Kg)																	
1,1'-Biphenyl	NL	NL	**54 J**	**4.5**	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**1.9**	< 0.41 U	< 0.42 U	< 0.47 U	**440 J**	**0.48**	< 0.65 U	**1.3**
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2,4,6-Trichlorophenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2,4-Dichlorophenol	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
2,4-Dimethylphenol	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
2,4-Dinitrophenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 UJ	< 0.42 UJ	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2,4-Dinitrotoluene	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2,6-Dinitrotoluene	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2-Chloronaphthalene	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2-Chlorophenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2-Methylphenol	0.33	1000	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	**5.5 J**	**0.085 J**	< 0.65 U	< 0.38 U
2-Nitroaniline	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
2-Nitrophenol	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
3,3'-Dichlorobenzidine	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
3-and 4-Methylphenol	0.33	1000	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	**0.58**	< 0.39 U	< 0.38 U	**0.093 J**	< 0.41 U	< 0.42 U	< 0.47 U	**9.5**	**0.095 J**	< 0.65 U	< 0.38 U
3-Nitroaniline	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 UJ	< 0.42 UJ	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4-Bromophenyl phenyl ether	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4-Chloro-3-methylphenol	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
4-Chloroaniline	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4-Nitroaniline	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4-Nitrophenol	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Acetophenone	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	**0.16 J**	**0.086 J**	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Atrazine	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Benzaldehyde	NL	NL	< 0.45 UJ	< 0.4 UJ	< 0.48 UJ	**0.14 J**	**0.63 J**	< 0.39 UJ	< 0.38 UJ	< 0.4 UJ	< 0.41 UJ	< 0.42 UJ	< 0.47 UJ	< 8.2 UJ	< 0.4 UJ	< 0.65 UJ	< 0.38 UJ
bis(2-Chloroethoxy)methane	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
bis(2-Chloroethyl) ether	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 UJ	< 0.42 UJ	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	**0.15 J**	< 0.56 U	< 0.39 U	< 0.38 U	**14**	< 0.41 U	< 0.42 U	**61**	< 8.2 UJ	**11**	< 0.65 U	< 0.38 U
Butyl benzyl phthalate	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**7.3 J**	< 0.41 U	< 0.42 U	**5.1**	< 8.2 UJ	**15**	< 0.65 U	< 0.38 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-05B 9/28/2009 SB-5(16-18)092809 N 16-18 AECOM049	SB-05B 9/28/2009 SB-5(28-30)092809 N 28-30 AECOM049	SB-05B 9/28/2009 SB-5(52-54)092809 N 52-54 AECOM049	SB-06B 10/14/2009 SB-6(6)101409 N 6-6 AECOM056	SB-06B 10/21/2009 SB-6(16-18)102109 N 16-18 AECOM057	SB-06B 10/21/2009 SB-6(26-28)102109 N 26-28 AECOM057	SB-06B 10/21/2009 SB-6(30-32)102109 N 30-32 AECOM057	SB-07A 10/5/2009 SB-7(6-8)100509 N 6-8 AECOM049	SB-07B 10/27/2009 SB-7(38-40)102709 N 38-40 AECOM058	SB-07B 10/27/2009 SB-7(44-46)102709 N 44-46 AECOM058	SB-08 9/27/2009 SB-8(2-3)092709 N 2-3 AECOM049	SB-08 10/18/2009 SB-8(24-26)101809 N 24-26 AECOM058	SB-09 9/27/2009 SB-9(4-5)092709 N 4-5 AECOM050	SB-09 9/27/2009 SB-9(20-21.5)092709 N 20-21.5 AECOM050	SB-09 9/27/2009 SB-9(36-38)092709 N 36-38 AECOM050
Caprolactam	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
Carbazole	NL	NL	**3**	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**5.9**	< 0.41 U	< 0.42 U	**0.41 J**	**82 J**	**1.4**	< 0.65 U	< 0.38 U
Diethyl phthalate	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Dimethyl phthalate	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Di-n-butyl phthalate	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Di-n-octyl phthalate	NL	NL	R	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**1.3 J**	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	**0.47 J**	< 0.65 U	< 0.38 U
Hexachlorobutadiene	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
Hexachlorocyclopentadiene	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 UJ	< 0.39 UJ	< 0.38 UJ	< 0.4 U	< 0.41 UJ	< 0.42 UJ	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
Hexachloroethane	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Isophorone	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
Nitrobenzene	NL	NL	< 0.45 UJ	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 UJ	< 0.4 U	< 0.65 U	< 0.38 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
N-Nitrosodiphenylamine	NL	NL	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	**8.8 J**	**1.4**	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**10**	< 0.41 U	< 0.42 U	**0.39 J**	**190 J**	**1.7**	< 0.65 U	**1.4**
Hexachlorobenzene	0.33	12	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Pentachlorophenol	0.8	55	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.42 U	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U
Phenol	0.33	1000	< 0.45 U	< 0.4 U	< 0.48 U	< 0.4 U	< 0.56 U	< 0.39 U	< 0.38 U	**0.21 J**	**0.099 J**	< 0.42 UJ	< 0.47 U	< 8.2 U	< 0.4 U	< 0.65 U	< 0.38 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-09 9/27/2009 SB-9(40-42)092709 N 40-42 AECOM050	SB-10 9/27/2009 SB-10(3-4)092709 N 3-4 AECOM050	SB-10 9/25/2009 SB-10(16-18)092509 N 16-18 AECOM050	SB-10 9/28/2009 SB-10(40-41.5)100709 N 40-41.5 AECOM050	SB-10 9/27/2009 SB-10(48-50)092709 N 48-50 AECOM050	SB-11 10/6/2009 SB-11(16-18)100609 N 16-18 AECOM056	SB-11 10/6/2009 SB-11(32-32.5)100609 N 32-32.5 AECOM056	SB-11 10/6/2009 SB-11(54-56)100609 N 54-56 AECOM056	SB-12A 9/25/2009 SB-12(4-5)092509 N 4-5 AECOM050	SB-12A 10/1/2009 SB-12(10-12.2)100109 N 10-12.2 AECOM056	SB-12B 11/3/2009 SB-12B(40-42)110309 N 40-42 AECOM057	SB-12B 11/3/2009 SB-12B(48-50)110309 N 48-50 AECOM057	SB-13 9/27/2009 SB-13(0-1)092709 N 0-1 AECOM056	SB-13 9/28/2009 SB-13(12-14)092809 N 12-14 AECOM056
PAH (mg/Kg)																
2-Methylnaphthalene	NL	NL	< 0.45 U	**0.36 J**	**1500**	**1700**	**0.33 J**	**3**	**1100**	**0.15 J**	**16 J**	< 0.47 U	**33**	< 0.42 U	**0.46**	**1000 J**
Acenaphthene	20	1000	< 0.45 U	**0.78**	**140 J**	**79 J**	< 0.45 U	**3.6**	**190**	< 0.48 U	**2.6**	**0.11 J**	**2.1**	< 0.42 U	**2.1**	**130**
Acenaphthylene	100	1000	< 0.45 U	**0.16 J**	**450**	**640**	**0.28 J**	**2.8**	**270**	< 0.48 U	**38**	**0.34 J**	**19**	< 0.42 U	**0.14 J**	**92**
Anthracene	100	1000	< 0.45 U	**1.6**	**200**	**260 J**	**0.29 J**	**5.7**	**230**	< 0.48 U	**46**	**0.42 J**	**13**	< 0.42 U	**8.2**	**71**
Benzo(a)anthracene	1	11	< 0.45 U	**3.2**	**130 J**	**190 J**	**0.28 J**	**6.6**	**150 J**	< 0.48 U	**42**	**2.2**	**9.3**	< 0.42 U	**15**	**46**
Benzo(a)pyrene	1	1.1	< 0.45 U	**2.5 J**	**82 J**	**120 J**	**0.18 J**	**10**	**120 J**	< 0.48 U	**30**	**2.2**	**6.9 J**	< 0.42 U	**10**	**32**
Benzo(b)fluoranthene	1	11	< 0.45 U	**3.4 J**	**59 J**	**65 J**	**0.14 J**	**7.1**	**84 J**	< 0.48 U	**31**	**2.6**	**4.8**	< 0.42 U	**10**	**24**
Benzo(ghi)perylene	100	1000	< 0.45 U	**0.63 J**	**9.2 J**	**17 J**	< 0.45 U	**2 J**	**16**	< 0.48 U	**6**	**1.1**	**1.3**	< 0.42 U	**2**	**9.9**
Benzo(k)fluoranthene	0.8	110	< 0.45 U	**1 J**	**11 J**	**27 J**	< 0.45 U	**3.4 J**	**32**	< 0.48 U	**14 J**	**0.91**	**2.7**	< 0.42 U	**2.9**	**15**
Chrysene	1	110	< 0.45 U	**2.8**	**110 J**	**150 J**	**0.23 J**	**6.1 J**	**140 J**	< 0.48 U	**36**	**2**	**8.8**	< 0.42 U	**13**	**41**
Dibenz(a,h)anthracene	0.33	1.1	< 0.45 U	**0.24 J**	**3.5 J**	**7 J**	< 0.45 U	**0.83 J**	**8.6**	< 0.48 U	**2.8**	**0.42 J**	**0.94**	< 0.42 U	**0.93**	**3.9 J**
Fluoranthene	100	1000	< 0.45 U	**6.7**	**240**	**330**	**0.49**	**13**	**260**	< 0.48 U	**120**	**3.5**	**16**	< 0.42 U	**38**	**110**
Fluorene	30	1000	< 0.45 U	**1.2**	**280**	**360**	**0.29 J**	**4.6**	**250**	< 0.48 U	**42**	**0.18 J**	**14**	< 0.42 U	**3.6**	**99**
Indeno(1,2,3-cd)pyrene	0.5	11	< 0.45 U	**0.62 J**	**9.1 J**	**16 J**	< 0.45 U	**2.4 J**	**18**	< 0.48 U	**14 J**	**1.2**	**1.6**	< 0.42 U	**2.5**	**10**
Naphthalene	12	1000	< 0.45 U	**1.3**	**3200**	**3900**	**0.28 J**	**10**	**2300**	**0.25 J**	**47**	**0.3 J**	**36**	< 0.42 U	**1**	**14000**
Phenanthrene	100	1000	< 0.45 U	**7.1**	**820**	**1100**	**1.2**	**19**	**960**	**0.17 J**	**190**	**1.4**	**50**	< 0.42 U	**38**	**290 J**
Pyrene	100	1000	< 0.45 U	**6.7**	**340**	**450**	**0.65**	**21**	**360**	< 0.48 U	**88**	**3.4**	**23**	< 0.42 U	**28**	**110**
Total PAHs	NL	NL	**ND**	**40.29**	**7583.8**	**9411**	**4.64**	**121.13**	**6488.6**	**0.57**	**765.4**	**22.28**	**242.44**	**ND**	**175.83**	**16083.8**
SVOC (mg/Kg)																
1,1'-Biphenyl	NL	NL	< 0.45 U	**0.14 J**	**110 J**	**140 J**	< 0.45 U	**1**	**130 J**	< 0.48 U	**4.8**	< 0.47 U	**5.5**	< 0.42 U	**0.18 J**	**42**
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2,4,6-Trichlorophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2,4-Dichlorophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2,4-Dimethylphenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	**0.085 J**	< 0.42 U	< 0.42 U	< 9.1 U
2,4-Dinitrophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 UJ	< 0.39 U	< 0.42 U	< 0.42 UJ	< 9.1 U
2,4-Dinitrotoluene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2,6-Dinitrotoluene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2-Chloronaphthalene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2-Chlorophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2-Methylphenol	0.33	1000	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2-Nitroaniline	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
2-Nitrophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
3,3'-Dichlorobenzidine	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 UJ	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
3-and 4-Methylphenol	0.33	1000	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	**0.16 J**	< 0.47 U	< 0.39 U	< 0.42 U	**0.17 J**	**2.3 J**
3-Nitroaniline	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Bromophenyl phenyl ether	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Chloro-3-methylphenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Chloroaniline	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Nitroaniline	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Nitrophenol	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Acetophenone	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Atrazine	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Benzaldehyde	NL	NL	< 0.45 UJ	< 0.45 UJ	< 0.39 UJ	< 0.77 UJ	< 0.45 UJ	< 0.4 UJ	< 3.8 UJ	< 0.48 UJ	< 0.38 UJ	**0.19 J**	< 0.39 UJ	< 0.42 UJ	< 0.42 UJ	< 9.1 UJ
bis(2-Chloroethoxy)methane	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
bis(2-Chloroethyl) ether	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.45 U	**10**	**0.71 J**	< 0.77 UJ	< 0.45 U	**0.37 J**	< 3.8 U	< 0.48 U	< 0.38 U	**0.11 J**	< 0.39 U	< 0.42 U	**3.3**	< 9.1 U
Butyl benzyl phthalate	NL	NL	< 0.45 U	**2.6**	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 UJ	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	**1.1**	< 9.1 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-09 9/27/2009 SB-9(40-42)092709 N 40-42 AECOM050	SB-10 9/27/2009 SB-10(3-4)092709 N 3-4 AECOM050	SB-10 9/25/2009 SB-10(16-18)092509 N 16-18 AECOM050	SB-10 9/28/2009 SB-10(40-41.5)100709 N 40-41.5 AECOM050	SB-10 9/27/2009 SB-10(48-50)092709 N 48-50 AECOM050	SB-11 10/6/2009 SB-11(16-18)100609 N 16-18 AECOM056	SB-11 10/6/2009 SB-11(32-32.5)100609 N 32-32.5 AECOM056	SB-11 10/6/2009 SB-11(54-56)100609 N 54-56 AECOM056	SB-12A 9/25/2009 SB-12(4-5)092509 N 4-5 AECOM050	SB-12A 10/1/2009 SB-12(10-12.2)100109 N 10-12.2 AECOM056	SB-12B 11/3/2009 SB-12B(40-42)110309 N 40-42 AECOM057	SB-12B 11/3/2009 SB-12B(48-50)110309 N 48-50 AECOM057	SB-13 9/27/2009 SB-13(0-1)092709 N 0-1 AECOM056	SB-13 9/28/2009 SB-13(12-14)092809 N 12-14 AECOM056
Caprolactam	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Carbazole	NL	NL	< 0.45 U	**0.58**	**4.6**	< 310 U	< 0.45 U	**0.59**	**7.8**	< 0.48 U	**21**	**0.16 J**	**0.26 J**	< 0.42 U	**2.2**	**10**
Diethyl phthalate	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Dimethyl phthalate	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Di-n-butyl phthalate	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Di-n-octyl phthalate	NL	NL	< 0.45 U	**0.22 J**	R	R	< 0.45 U	< 0.4 UJ	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	**0.14 J**	< 0.42 U	< 9.1 U
Hexachlorobutadiene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Hexachlorocyclopentadiene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 UJ	< 0.42 UJ	< 0.42 U	< 9.1 U
Hexachloroethane	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Isophorone	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Nitrobenzene	NL	NL	< 0.45 U	< 0.45 U	< 0.39 UJ	< 0.77 UJ	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
N-Nitrosodiphenylamine	NL	NL	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	< 0.45 U	**0.54**	**16 J**	**37 J**	< 0.45 U	**1**	**30**	< 0.48 U	**30**	< 0.47 U	**1.5**	< 0.42 U	**2.1**	**35**
Hexachlorobenzene	0.33	12	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Pentachlorophenol	0.8	55	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	< 0.38 U	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	< 9.1 U
Phenol	0.33	1000	< 0.45 U	< 0.45 U	< 0.39 U	< 0.77 U	< 0.45 U	< 0.4 U	< 3.8 U	< 0.48 U	**0.16 J**	< 0.47 U	< 0.39 U	< 0.42 U	< 0.42 U	**3.1 J**

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-13 9/27/2009 SB-13(18-24)092709 N 18-24 AECOM050	SB-14A 9/27/2009 SB-14(1-2)092709 N 1-2 AECOM050	SB-14B 9/27/2009 SB-14B(11-13)092709 N 11-13 AECOM050	SB-14B 10/17/2009 SB-14B(20-22)101709 N 20-22 AECOM057	SB-14B 10/17/2009 SB-14B(38-40)101709 N 38-40 AECOM057	SB-14B 10/17/2009 SB-14B(54-56)101709 N 54-56 AECOM057	SB-15 9/23/2009 SB-15(3-4)092309 N 3-4 AECOM050	SB-15 9/30/2009 SB-15(12-14)093009 N 12-14 AECOM056	SB-15 9/30/2009 SB-15(38-40)093009 N 38-40 AECOM056	SB-15 9/30/2009 SB-15(42-44)093009 N 42-44 AECOM056	SB-16A 9/24/2009 SB-16(2-3)092409 N 2-3 AECOM050	SB-16B 10/19/2009 SB-16B(30-32)101909 N 30-32 AECOM057	SB-16B 10/19/2009 SB-16B(44-46)101909 N 44-46 AECOM057	SB-17 9/25/2009 SB-17(1-2)092509 N 1-2 AECOM049
PAH (mg/Kg)																
2-Methylnaphthalene	NL	NL	**3600**	**0.66**	**140**	**110 J**	**3000 J**	**0.56**	**0.7**	**100**	**280**	< 0.44 U	**0.24 J**	**180**	**0.23 J**	**11 J**
Acenaphthene	20	1000	**140**	**0.34 J**	**5.5**	**5.2 J**	**220 J**	**0.3 J**	**0.9**	**38**	**18 J**	< 0.44 U	**0.37 J**	**95**	**0.2 J**	**5.3**
Acenaphthylene	100	1000	**680 J**	**0.11 J**	**64**	**0.81 J**	**1000 J**	**0.088 J**	**0.49**	**6**	**110**	< 0.44 U	**0.37 J**	**16 J**	< 0.41 U	**8.4 J**
Anthracene	100	1000	**1800**	**1**	**21**	**1.1 J**	**460 J**	**0.1 J**	**2**	**39**	**70**	**0.1 J**	**1.5**	**51**	< 0.41 U	**33**
Benzo(a)anthracene	1	11	**1100**	**2.6**	**13 J**	**0.39 J**	**320 J**	< 0.37 U	**6**	**26**	**52**	**0.15 J**	**5.4**	**40**	< 0.41 U	**52**
Benzo(a)pyrene	1	1.1	**750 J**	**2**	**8.2 J**	**0.24 J**	**200 J**	< 0.37 U	**4.8**	**14 J**	**35 J**	**0.091 J**	**4.8**	**28**	< 0.41 U	**36**
Benzo(b)fluoranthene	1	11	**760 J**	**2.3**	**6.6 J**	< 0.92 UJ	**120 J**	< 0.37 U	**8.2 J**	**13 J**	**28 J**	< 0.44 U	**7.9**	**19 J**	< 0.41 U	**46**
Benzo(ghi)perylene	100	1000	**92 J**	**0.66**	**1.2**	< 0.92 UJ	**27 J**	< 0.37 U	**1.1**	**3.5 J**	**11 J**	< 0.44 U	**1**	**3.6 J**	< 0.41 U	**18**
Benzo(k)fluoranthene	0.8	110	**190 J**	**1.1**	**1.9**	< 0.92 UJ	**160 J**	< 0.37 U	**1.9**	**5.8 J**	**10 J**	< 0.44 U	**2.3**	**18 J**	< 0.41 U	**16 J**
Chrysene	1	110	**1000**	**2.2**	**11 J**	**0.43 J**	**320 J**	< 0.37 U	**5.2**	**24**	**47**	**0.11 J**	**5**	**40**	< 0.41 U	**49**
Dibenz(a,h)anthracene	0.33	1.1	**46 J**	**0.22 J**	**0.53**	< 0.92 UJ	**20 J**	< 0.37 U	**0.54**	**1.6 J**	**2.9 J**	< 0.44 U	**0.42**	**2.2 J**	< 0.41 U	**3 J**
Fluoranthene	100	1000	**2900**	**5.8**	**24**	**0.65 J**	**520 J**	**0.1 J**	**14**	**38**	**80**	**0.16 J**	**16**	**62**	< 0.41 U	**150**
Fluorene	30	1000	**1600**	**0.56**	**31**	**8.3 J**	**520 J**	**0.15 J**	**1.6**	**36**	**79**	< 0.44 U	**0.65**	**62**	< 0.41 U	**26**
Indeno(1,2,3-cd)pyrene	0.5	11	**120 J**	**0.71**	**1.2**	< 0.92 UJ	**31 J**	< 0.37 U	**1.5**	**3.3 J**	**8.5 J**	< 0.44 U	**1.2**	**3.9 J**	< 0.41 U	**17 J**
Naphthalene	12	1000	**16000**	**3.7**	**79**	**440 J**	**7400**	**0.86**	**2.3**	**99**	**490**	< 0.44 U	**1.5**	**12 J**	**0.5**	**45**
Phenanthrene	100	1000	**5200**	**4.7**	**87**	**5.9 J**	**1800 J**	**0.3 J**	**8.8**	**140**	**290**	**0.4 J**	**5.4**	**190**	**0.13 J**	**120**
Pyrene	100	1000	**2200**	**5**	**35**	**0.89 J**	**870 J**	**0.14 J**	**10**	**65**	**130**	**0.3 J**	**14**	**99**	< 0.41 U	**120**
Total PAHs	NL	NL	**38178**	**33.66**	**530.13**	**573.91**	**16988**	**2.598**	**70.03**	**652.2**	**1741.4**	**1.311**	**68.05**	**921.7**	**1.06**	**755.7**
SVOC (mg/Kg)																
1,1'-Biphenyl	NL	NL	**330**	< 0.44 U	**13 J**	**7.4 J**	**280 J**	**0.12 J**	**0.23 J**	**11 J**	**27 J**	< 0.44 U	< 0.38 U	**24**	< 0.41 U	**2.5**
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,4,6-Trichlorophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,4-Dichlorophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,4-Dimethylphenol	NL	NL	**69**	< 0.44 U	< 0.38 U	**2.1 J**	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,4-Dinitrophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 UJ	< 0.4 UJ	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,4-Dinitrotoluene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2,6-Dinitrotoluene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2-Chloronaphthalene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2-Chlorophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2-Methylphenol	0.33	1000	**92**	< 0.44 U	< 0.38 U	**0.92 J**	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2-Nitroaniline	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
2-Nitrophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
3,3'-Dichlorobenzidine	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 UJ	< 0.37 U	< 0.42 U	< 0.42 UJ	< 0.4 UJ	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
3-and 4-Methylphenol	0.33	1000	**210**	< 0.44 U	< 0.38 U	**2.6 J**	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
3-Nitroaniline	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4,6-Dinitro-2-methylphenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
4-Bromophenyl phenyl ether	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
4-Chloro-3-methylphenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4-Chloroaniline	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4-Chlorophenyl phenyl ether	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4-Nitroaniline	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4-Nitrophenol	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Acetophenone	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Atrazine	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
Benzaldehyde	NL	NL	< 20 UJ	< 0.44 UJ	< 0.38 UJ	< 0.92 UJ	< 7.6 UJ	< 0.37 UJ	< 0.42 UJ	< 0.42 UJ	< 0.4 UJ	< 0.44 UJ	< 0.38 UJ	< 0.4 UJ	< 0.41 UJ	< 0.36 UJ
bis(2-Chloroethoxy)methane	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
bis(2-Chloroethyl) ether	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 20 U	**1.6**	< 0.38 U	< 0.92 UJ	< 7.6 UJ	< 0.37 U	**12**	< 0.42 UJ	< 0.4 UJ	< 0.44 U	**3.2**	< 0.4 UJ	< 0.41 U	**0.42 J**
Butyl benzyl phthalate	NL	NL	< 20 U	**6.7**	< 0.38 U	< 0.92 UJ	< 7.6 UJ	< 0.37 U	**65**	< 0.42 UJ	< 0.4 UJ	< 0.44 U	**0.47**	< 0.4 UJ	< 0.41 U	**0.55**

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-13 9/27/2009 SB-13(18-24)092709 N 18-24 AECOM050	SB-14A 9/27/2009 SB-14(1-2)092709 N 1-2 AECOM050	SB-14B 9/27/2009 SB-14B(11-13)092709 N 11-13 AECOM050	SB-14B 10/17/2009 SB-14B(20-22)101709 N 20-22 AECOM057	SB-14B 10/17/2009 SB-14B(38-40)101709 N 38-40 AECOM057	SB-14B 10/17/2009 SB-14B(54-56)101709 N 54-56 AECOM057	SB-15 9/23/2009 SB-15(3-4)092309 N 3-4 AECOM050	SB-15 9/30/2009 SB-15(12-14)093009 N 12-14 AECOM056	SB-15 9/30/2009 SB-15(38-40)093009 N 38-40 AECOM056	SB-15 9/30/2009 SB-15(42-44)093009 N 42-44 AECOM056	SB-16A 9/24/2009 SB-16(2-3)092409 N 2-3 AECOM050	SB-16B 10/19/2009 SB-16B(30-32)101909 N 30-32 AECOM057	SB-16B 10/19/2009 SB-16B(44-46)101909 N 44-46 AECOM057	SB-17 9/25/2009 SB-17(1-2)092509 N 1-2 AECOM049
Caprolactam	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Carbazole	NL	NL	**570 J**	**0.33 J**	**0.37 J**	**2.3 J**	**15 J**	< 0.37 U	**1**	**1.6**	**1.9**	< 0.44 U	**0.35 J**	**2 J**	< 0.41 U	**15 J**
Diethyl phthalate	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Dimethyl phthalate	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Di-n-butyl phthalate	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
Di-n-octyl phthalate	NL	NL	< 20 UJ	< 0.44 U	< 0.38 U	< 0.92 UJ	R	< 0.37 U	**0.6**	R	R	< 0.44 U	**0.1 J**	R	< 0.41 U	< 0.36 UJ
Hexachlorobutadiene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Hexachlorocyclopentadiene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 UJ	< 0.37 UJ	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 UJ	< 0.36 U
Hexachloroethane	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Isophorone	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
Nitrobenzene	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
N-Nitrosodi-n-propylamine	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
N-Nitrosodiphenylamine	NL	NL	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	**1000**	**0.3 J**	**3.3**	**1.6 J**	**62 J**	< 0.37 U	**1.1**	**3.2**	**8.6 J**	< 0.44 U	**0.28 J**	**4.2**	< 0.41 U	**15 J**
Hexachlorobenzene	0.33	12	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
Pentachlorophenol	0.8	55	< 20 U	< 0.44 U	< 0.38 U	< 0.92 UJ	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 UJ	< 0.41 U	< 0.36 U
Phenol	0.33	1000	**240**	**0.11 J**	< 0.38 U	**0.55 J**	< 7.6 U	< 0.37 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.44 U	< 0.38 U	< 0.4 U	< 0.41 U	< 0.36 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-17 10/22/2009 SB-17(16-18)102209 N 16-18 AECOM058	SB-17 10/22/2009 SB-17(36-38)102209 N 36-38 AECOM058	SB-17 10/22/2009 SB-17(40-42)102209 N 40-42 AECOM058	SB-18 9/25/2009 SB-18(4-5)092509 N 4-5 AECOM050	SB-18 10/1/2009 SB-18(12-14)100109 N 12-14 AECOM056	SB-18 10/2/2009 SB-18(38-40)100209 N 38-40 AECOM056	SB-18 10/2/2009 SB-18(42-44)100209 N 42-44 AECOM056	TP-01 10/8/2009 TP-1(9)100809 N 9-9 AECOM056	TP-01 10/8/2009 TP-1(12)100809 N 12-12 AECOM057	TP-01 10/8/2009 DUP-3-100809 FD 12-12 AECOM056	TP-02 10/6/2009 TP-2(8.5)100609 N 8.5-8.5 AECOM056	TP-03 10/7/2009 TP-3(7.0)100709 N 7-7 AECOM050	TP-03 10/7/2009 DUP-2-100709 FD 7-7 AECOM050	TP-03 10/7/2009 TP-3(7.5)100709 N 7.5-7.5 AECOM050	SB-16C 10/22/2011 SB-16C(92.5-95)102211 N 92.5-95 460328301
PAH (mg/Kg)																	
2-Methylnaphthalene	NL	NL	**63**	**55**	< 0.4 U	**0.48**	**0.5**	< 0.4 U	< 0.41 U	**110**	**0.62**	**0.24 J**	< 3.9 U	**0.49**	**0.32 J**	< 0.42 U	NS
Acenaphthene	20	1000	**120**	**34**	< 0.4 U	**1.5**	**1.3**	< 0.4 U	< 0.41 U	**130**	**0.45**	**0.25 J**	**3.1 J**	**0.27 J**	**0.62**	< 0.42 U	< 0.38 U
Acenaphthylene	100	1000	**16**	**4.8**	< 0.4 U	**0.97**	**0.41 J**	< 0.4 U	< 0.41 U	**32 J**	**0.71 J**	**0.25 J**	< 3.9 U	**0.18 J**	**0.16 J**	**0.14 J**	**0.27 J**
Anthracene	100	1000	**100**	**23**	< 0.4 U	**11**	**1.5**	< 0.4 U	< 0.41 U	**200**	**1.3 J**	**0.72 J**	**5.6**	**0.76 J**	**2.7 J**	**0.32 J**	**0.13 J**
Benzo(a)anthracene	1	11	**65**	**18 J**	< 0.4 U	**31**	**1.9**	< 0.4 U	< 0.41 U	**190**	**2.4**	**1.6**	**8.4**	**2 J**	**5.6 J**	**0.98**	**0.095**
Benzo(a)pyrene	1	1.1	**41**	**12 J**	< 0.4 U	**24**	**1**	< 0.4 U	< 0.41 U	**120**	**2.8 J**	**1.4 J**	**5.8**	**1.6**	**4.7 J**	**0.71**	**0.074**
Benzo(b)fluoranthene	1	11	**29**	**8.2 J**	< 0.4 U	**29**	**1.1**	< 0.4 U	< 0.41 U	**130**	**3.2 J**	**1.7 J**	**5.8**	**2.3**	**5.9 J**	**0.92**	**0.048**
Benzo(ghi)perylene	100	1000	**8.7**	**1.7**	< 0.4 U	**3.1 J**	**0.3 J**	< 0.4 U	< 0.41 U	**39 J**	**0.49**	**0.44**	**2.3 J**	**0.44 J**	**1 J**	**0.19 J**	< 0.38 U
Benzo(k)fluoranthene	0.8	110	**18**	**5.4**	< 0.4 U	**11**	**0.45**	< 0.4 U	< 0.41 U	**61 J**	**0.93**	**0.69**	**2.7 J**	**0.79**	**1.7 J**	**0.36 J**	**0.023 J**
Chrysene	1	110	**64**	**17 J**	< 0.4 U	**28**	**1.9**	< 0.4 U	< 0.41 U	**140**	**2.5**	**1.5**	**7.3**	**1.9 J**	**5.2 J**	**0.82**	**0.083 J**
Dibenz(a,h)anthracene	0.33	1.1	**6.4**	**1.3**	< 0.4 U	**1.3 J**	**0.12 J**	< 0.4 U	< 0.41 U	**8.9 J**	**0.29 J**	**0.2 J**	< 3.9 U	**0.25 J**	**0.53**	**0.099 J**	< 0.038 U
Fluoranthene	100	1000	**100**	**31**	< 0.4 U	**71**	**2**	< 0.4 U	< 0.41 U	**510**	**6.2**	**4.2**	**21**	**4.3 J**	**14 J**	**2**	**0.15 J**
Fluorene	30	1000	**77**	**25**	< 0.4 U	**3.5**	**1.4**	< 0.4 U	< 0.41 U	**220**	**0.99 J**	**0.44 J**	**4.1**	**0.36 J**	**0.79 J**	**0.17 J**	**0.19 J**
Indeno(1,2,3-cd)pyrene	0.5	11	**9.3**	**1.8**	< 0.4 U	**3.7 J**	**0.29 J**	< 0.4 U	< 0.41 U	**48 J**	**0.69**	**0.59**	**2.5 J**	**0.57 J**	**1.5 J**	**0.25 J**	**0.022 J**
Naphthalene	12	1000	**85**	**94**	**0.091 J**	**1.2**	**1.5**	< 0.4 U	< 0.41 U	**1400**	**2.9 J**	**0.99 J**	< 3.9 U	**1.2 J**	**0.71 J**	**0.22 J**	**2.7**
Phenanthrene	100	1000	**320**	**91**	**0.082 J**	**41**	**4.6**	< 0.4 U	< 0.41 U	**700**	**4.1**	**2.8**	**16**	**3.1 J**	**10 J**	**1.5**	**0.53**
Pyrene	100	1000	**170**	**43**	< 0.4 U	**56**	**3**	< 0.4 U	< 0.41 U	**320**	**4.4**	**3**	**21**	**3.4 J**	**11 J**	**1.6**	**0.22 J**
Total PAHs	NL	NL	**1292.4**	**466.2**	**0.173**	**317.75**	**23.27**	**ND**	**ND**	**4358.9**	**34.97**	**21.01**	**105.6**	**23.91**	**66.43**	**10.279**	**4.535**
SVOC (mg/Kg)																	
1,1'-Biphenyl	NL	NL	**15**	**8.2 J**	< 0.4 U	**0.16 J**	< 0.43 U	< 0.4 U	< 0.41 U	**31 J**	**0.17 J**	**0.085 J**	< 3.9 U	**0.11 J**	**0.095 J**	< 0.42 U	NS
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,4,6-Trichlorophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,4-Dichlorophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,4-Dimethylphenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,4-Dinitrophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,4-Dinitrotoluene	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2,6-Dinitrotoluene	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2-Chloronaphthalene	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2-Chlorophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2-Methylphenol	0.33	1000	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	**0.76**	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2-Nitroaniline	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
2-Nitrophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
3,3'-Dichlorobenzidine	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	R	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
3-and 4-Methylphenol	0.33	1000	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	**1.8**	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
3-Nitroaniline	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4,6-Dinitro-2-methylphenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Bromophenyl phenyl ether	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Chloro-3-methylphenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Chloroaniline	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Chlorophenyl phenyl ether	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Nitroaniline	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Nitrophenol	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Acetophenone	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Atrazine	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Benzaldehyde	NL	NL	< 4.1 UJ	< 0.38 UJ	< 0.4 UJ	< 0.39 UJ	< 0.43 UJ	< 0.4 UJ	< 0.41 UJ	< 0.41 UJ	< 0.42 UJ	< 0.39 UJ	< 3.9 UJ	< 0.38 U	< 0.39 UJ	< 0.42 U	NS
bis(2-Chloroethoxy)methane	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
bis(2-Chloroethyl) ether	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
bis(2-Ethylhexyl) phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	**21**	**0.42 J**	< 0.4 U	< 0.41 U	**0.61 J**	< 0.42 U	**0.09 J**	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Butyl benzyl phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	R	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-17 10/22/2009 SB-17(16-18)102209 N 16-18 AECOM058	SB-17 10/22/2009 SB-17(36-38)102209 N 36-38 AECOM058	SB-17 10/22/2009 SB-17(40-42)102209 N 40-42 AECOM058	SB-18 9/25/2009 SB-18(4-5)092509 N 4-5 AECOM050	SB-18 10/1/2009 SB-18(12-14)100109 N 12-14 AECOM056	SB-18 10/2/2009 SB-18(38-40)100209 N 38-40 AECOM056	SB-18 10/2/2009 SB-18(42-44)100209 N 42-44 AECOM056	TP-01 10/8/2009 TP-1(9)100809 N 9-9 AECOM056	TP-01 10/8/2009 TP-1(12)100809 N 12-12 AECOM057	TP-01 10/8/2009 DUP-3-100809 FD 12-12 AECOM056	TP-02 10/6/2009 TP-2(8.5)100609 N 8.5-8.5 AECOM056	TP-03 10/7/2009 TP-3(7.0)100709 N 7-7 AECOM050	TP-03 10/7/2009 DUP-2-100709 FD 7-7 AECOM050	TP-03 10/7/2009 TP-3(7.5)100709 N 7.5-7.5 AECOM050	SB-16C 10/22/2011 SB-16C(92.5-95)102211 N 92.5-95 460328301
Caprolactam	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Carbazole	NL	NL	**3.4 J**	**0.54**	< 0.4 U	**2.7**	< 0.43 U	< 0.4 U	< 0.41 U	**95 J**	**0.39 J**	**0.28 J**	**0.84 J**	**0.22 J**	**0.73 J**	**0.13 J**	NS
Diethyl phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Dimethyl phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Di-n-butyl phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Di-n-octyl phthalate	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	**1.3 J**	< 0.43 U	< 0.4 U	< 0.41 U	R	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Hexachlorobutadiene	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Hexachlorocyclopentadiene	NL	NL	< 4.1 UJ	< 0.38 UJ	< 0.4 UJ	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Hexachloroethane	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Isophorone	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Nitrobenzene	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 UJ	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
N-Nitrosodi-n-propylamine	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
N-Nitrosodiphenylamine	NL	NL	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	**8.9**	**1.7**	< 0.4 U	**1.6**	**0.56**	< 0.4 U	< 0.41 U	**140**	**0.6**	**0.31 J**	**1 J**	**0.29 J**	**0.56**	< 0.42 U	NS
Hexachlorobenzene	0.33	12	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Pentachlorophenol	0.8	55	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS
Phenol	0.33	1000	< 4.1 U	< 0.38 U	< 0.4 U	< 0.39 U	< 0.43 U	< 0.4 U	< 0.41 U	**1.5 J**	< 0.42 U	< 0.39 U	< 3.9 U	< 0.38 U	< 0.39 U	< 0.42 U	NS

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-16C 10/22/2011 SB-16C(102.5-105)102211 N 102.5-105 460328301	SB-19 10/30/2011 SB-19(2-5)103011 N 2-5 460330951	SB-19 11/6/2011 SB-19(70-75)110611 N 70-75 460334711	SB-19 11/6/2011 SB-19(85-87.5)110611 N 85-87.5 460334711	SB-20 9/24/2011 SB-20(1-2)092411 N 1-2 460316291	SB-20 9/25/2011 SB-20(72.5-75)092511 N 72.5-75 460316291	SB-20 9/25/2011 SB-20(108-110)092511 N 108-110 460316291	SB-21 9/22/2011 SB-21(0-5)092211 N 0-5 460315781	SB-22 9/19/2011 SB-22(0-5)091911 N 0-5 460315781	SB-22 10/20/2011 SB-22 (84-85) N 84-85 460327321	SB-22 10/20/2011 SB-22 (107.5-110) N 107.5-110 460327321	SB-23 9/27/2011 SB-23(89-90)092711 N 89-90 460316541	SB-23 9/27/2011 SB-23(90-92.5)092711 N 90-92.5 460316541	SB-24 10/25/2011 SB-24(98.5-99)102511 N 98.5-99 460328301
PAH (mg/Kg)																
2-Methylnaphthalene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	20	1000	< 0.41 U	**3.9 J**	**0.27 J**	< 0.39 U	**0.77 J**	**0.29 J**	< 0.44 U	**1.6 J**	**0.76**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**1.5 J**
Acenaphthylene	100	1000	< 0.41 U	**3.3 J**	**0.27 J**	< 0.39 U	< 1.9 U	**2.4**	**0.2 J**	< 2.1 U	**0.36 J**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**13**
Anthracene	100	1000	< 0.41 U	**15**	**0.6**	< 0.39 U	**0.95 J**	**2.4**	**0.11 J**	**5.6**	**1.9**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**6.3**
Benzo(a)anthracene	1	11	< 0.041 U	**22**	**0.68**	< 0.039 U	**1.8**	**2**	**0.096**	**8.3**	**4.8**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**4.8**
Benzo(a)pyrene	1	1.1	< 0.041 U	**16**	**0.45**	< 0.039 U	**1.6 J**	**1.4 J**	**0.056 J**	**7.6**	**4.4**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**3.3**
Benzo(b)fluoranthene	1	11	< 0.041 U	**20**	**0.38**	< 0.039 U	**1.8 J**	**1 J**	**0.044 J**	**7.3**	**4.9**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**2.3**
Benzo(ghi)perylene	100	1000	< 0.41 U	**9.8**	**0.23 J**	< 0.39 U	**1.4 J**	**0.5 J**	< 0.44 U	**6.2 J**	**3.6**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**1 J**
Benzo(k)fluoranthene	0.8	110	< 0.041 U	**7.6**	**0.16**	< 0.039 U	**0.78**	**0.46**	**0.021 J**	**3.7**	**1.8**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**0.85**
Chrysene	1	110	< 0.41 U	**20**	**0.63**	< 0.39 U	**1.7 J**	**2.1**	**0.097 J**	**9.8**	**4.8**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**4.7**
Dibenz(a,h)anthracene	0.33	1.1	< 0.041 U	**3**	< 0.041 U	< 0.039 U	**0.4**	**0.11**	< 0.044 U	**1.4**	**0.93**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**0.21 J**
Fluoranthene	100	1000	< 0.41 U	**53**	**1.3**	< 0.39 U	**3.4**	**2.8**	**0.079 J**	**11**	**11**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**6.8**
Fluorene	30	1000	< 0.41 U	**12**	**0.63**	< 0.39 U	**1.7 J**	**2**	**0.14 J**	**1.9 J**	**0.79**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**8**
Indeno(1,2,3-cd)pyrene	0.5	11	< 0.041 U	**10**	**0.17**	< 0.039 U	**1.5**	**0.49**	< 0.044 U	**4.7 J**	**3.8**	< 0.038 U	< 0.041 U	< 0.04 U	< 0.045 U	**0.8**
Naphthalene	12	1000	**0.062 J**	**5.1**	< 0.41 U	< 0.39 U	**0.61 J**	**2.9**	**1**	**0.32 J**	**0.81**	**0.2 J**	**1.9**	< 0.4 U	< 0.45 U	**54**
Phenanthrene	100	1000	< 0.41 U	**37**	**3.6**	< 0.39 U	**4.5**	**9.2**	**0.42 J**	**16**	**8.3**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**25**
Pyrene	100	1000	< 0.41 U	**40**	**1.6**	< 0.39 U	**3.8**	**4.8**	**0.31 J**	**19**	**9.3**	< 0.38 U	< 0.41 U	< 0.4 U	< 0.45 U	**11**
Total PAHs	NL	NL	**0.062**	**277.7**	**10.97**	**ND**	**26.71**	**34.85**	**2.573**	**104.42**	**62.25**	**0.2**	**1.9**	**ND**	**ND**	**143.56**
SVOC (mg/Kg)																
1,1'-Biphenyl	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chloronaphthalene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-and 4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetophenone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Atrazine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzaldehyde	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy)methane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl) ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl) phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Butyl benzyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-16C 10/22/2011 SB-16C(102.5-105)102211 N 102.5-105 460328301	SB-19 10/30/2011 SB-19(2-5)103011 N 2-5 460330951	SB-19 11/6/2011 SB-19(70-75)110611 N 70-75 460334711	SB-19 11/6/2011 SB-19(85-87.5)110611 N 85-87.5 460334711	SB-20 9/24/2011 SB-20(1-2)092411 N 1-2 460316291	SB-20 9/25/2011 SB-20(72.5-75)092511 N 72.5-75 460316291	SB-20 9/25/2011 SB-20(108-110)092511 N 108-110 460316291	SB-21 9/22/2011 SB-21(0-5)092211 N 0-5 460315781	SB-22 9/19/2011 SB-22(0-5)091911 N 0-5 460315781	SB-22 10/20/2011 SB-22 (84-85) N 84-85 460327321	SB-22 10/20/2011 SB-22 (107.5-110) N 107.5-110 460327321	SB-23 9/27/2011 SB-23(89-90)092711 N 89-90 460316541	SB-23 9/27/2011 SB-23(90-92.5)092711 N 90-92.5 460316541	SB-24 10/25/2011 SB-24(98.5-99)102511 N 98.5-99 460328301
Caprolactam	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-octyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodi-n-propylamine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenzofuran	7	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	0.33	12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	0.8	55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

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Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-24 10/25/2011 SB-24(108-110)102511 N 108-110 460328301	SB-29 9/23/2011 SB-29(0-5)092311 N 0-5 460315781	SB-29 9/23/2011 SB-29(98)092311 N 98-98 460315781	SB-29 9/23/2011 SB-29(98-100)092311 N 98-100 460315781	SB-30 10/23/2011 SB-30(3-5)102311 N 3-5 460330951	SB-30 10/29/2011 SB-30(78-79)102911 N 78-79 460330951	SB-30 10/29/2011 DUP-1-102911 FD 78-79 460330951	SB-30 10/29/2011 SB-30(92-94)102911 N 92-94 460330951	TP-04 9/9/2011 TP-4(3-4) N 3-4 K1658	TP-04 9/9/2011 TP-4(7-7.5) N 7-7.5 K1658	TP-2B 9/9/2011 TP-2B-1(7-7.5) N 7-7.5 K1658	TP-2B 9/9/2011 TB-2B-2(7-7.5) N 7-7.5 K1658	TP-08 9/1/2011 TP-8(6.4-6.7) N 6.4-6.7 K1658	TP-12 9/7/2011 TP-12(4-5) N 4-5 K1658	TP-12A 9/8/2011 TP-12A (4-5) N 4-5 K1658	TP-16 9/2/2011 TP-16(5-6) N 5-6 K1658	TP-17 9/7/2011 TP-17(6-6.67) N 6-6.67 K1658	SB-25 7/24/2012 SB-25 (92-93)072412 N 92-93 460429191
PAH (mg/Kg)																					
2-Methylnaphthalene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	**0.11 J**	< 1.1 U	< 0.19 U	**0.13 J**	**0.12 J**	**77 D**	**0.068 J**	**4900**	**1.3**	< 0.38 U
Acenaphthene	20	1000	< 0.44 U	**1.2**	**1.3 J**	< 0.4 U	< 0.77 U	**0.53 J**	**0.54 J**	< 0.47 U	**0.39**	**33**	**0.056 J**	**0.37**	**0.12 J**	**8.6**	**0.19 J**	< 1200 U	< 0.99 U	< 0.38 U
Acenaphthylene	100	1000	< 0.44 U	**0.18 J**	**10**	< 0.4 U	**1.1**	**4.2**	**4.1**	< 0.47 U	**0.57**	**7.5**	**0.089 J**	**0.21**	**0.36 J**	**77 D**	**0.16 J**	**3900**	**22 D**	< 0.38 U
Anthracene	100	1000	< 0.44 U	**2.7**	**4.8 J**	< 0.4 U	**0.45 J**	**4.1**	**3.6**	< 0.47 U	**1.4**	**15**	**0.16 J**	**0.57**	**0.78**	**60 D**	**0.52**	**4600**	**19 D**	< 0.38 U
Benzo(a)anthracene	1	11	< 0.044 U	**4**	**2.2**	**0.085**	**3**	**3.8**	**2.8**	< 0.047 U	**4.5**	**15**	**0.42**	**1.6**	**2.7**	**89 D**	**1.4**	**3300**	**45 D**	< 0.038 U
Benzo(a)pyrene	1	1.1	< 0.044 U	**3.2**	**1.8**	**0.064**	**2.9**	**2.2**	**2**	< 0.047 U	**3.7**	**12**	**0.41**	**1.5**	**2.3**	**68 D**	**1.3**	**2300**	**36 D**	< 0.038 U
Benzo(b)fluoranthene	1	11	< 0.044 U	**3.6**	**1.1**	**0.059**	**5**	**1.7**	**1.5**	< 0.047 U	**5**	**11**	**0.48**	**1.6**	**2.9**	**83 D**	**1.4**	**2800**	**45 D**	< 0.038 U
Benzo(ghi)perylene	100	1000	< 0.44 U	**1.3 J**	**0.68 J**	< 0.4 U	**4.1**	**1 J**	**0.84 J**	< 0.47 U	**2.3**	**7.4**	**0.32**	**0.99**	**1.5**	**35 DJ**	**0.87**	**1100 J**	**19 D**	< 0.38 U
Benzo(k)fluoranthene	0.8	110	< 0.044 U	**1.6**	**0.64**	< 0.04 U	**1.5**	**0.59**	**0.5**	< 0.047 U	**2**	**6.2**	**0.25**	**0.98**	**1.2**	**43 D**	**0.74**	**1300**	**13**	< 0.038 U
Chrysene	1	110	< 0.44 U	**4**	**2.7 J**	**0.11 J**	**4.2**	**3.4**	**3.1**	< 0.47 U	**4.5**	**16**	**0.45**	**1.6**	**2.5**	**64 D**	**1.4**	**3300**	**39 D**	< 0.38 U
Dibenz(a,h)anthracene	0.33	1.1	< 0.044 U	**0.49**	< 0.64 U	< 0.04 U	**0.91**	**0.24**	**0.22**	< 0.047 U	**0.69**	**2**	**0.08 J**	**0.28**	**0.42**	**9.3**	**0.22**	**360 J**	**6.6**	< 0.038 U
Fluoranthene	100	1000	< 0.44 U	**5.5**	**2.9 J**	**0.13 J**	**2.6**	**5.6**	**4.6**	< 0.47 U	**8.6**	**34**	**0.82**	**2.9**	**4.7**	**220 D**	**2.8**	**8700**	**77 D**	< 0.38 U
Fluorene	30	1000	< 0.44 U	**1.2**	**6.5**	**0.081 J**	< 0.77 U	**4.8**	**4.3**	< 0.47 U	**0.53**	**15**	**0.059 J**	**0.29**	**0.18 J**	**110 D**	**0.21**	**5200**	**7.3**	< 0.38 U
Indeno(1,2,3-cd)pyrene	0.5	11	< 0.044 U	**1.4 J**	**0.48 J**	< 0.04 U	**3.4**	**0.91**	**0.73**	< 0.047 U	**2**	**5.7**	**0.26**	**0.83**	**1.3**	**32 DJ**	**0.72**	**1100 J**	**16**	< 0.038 U
Naphthalene	12	1000	< 0.44 U	**3.2**	**99**	< 0.4 U	**0.25 J**	**0.57 J**	**2 J**	< 0.47 U	**0.2 J**	< 1.1 U	< 0.19 U	**0.32**	**0.2 J**	**390 D**	**0.11 J**	**37000 D**	**2.9**	< 0.38 U
Phenanthrene	100	1000	< 0.44 U	**9.3**	**18**	**0.41**	**1**	**19**	**16**	< 0.47 U	**5.9**	**43**	**0.54**	**2.4**	**2.6**	**310 D**	**2.5**	**14000**	**48 D**	< 0.38 U
Pyrene	100	1000	< 0.44 U	**7.3**	**9**	**0.38 J**	**2.8**	**8.6**	**6.9**	< 0.47 U	**8**	**49**	**0.8**	**2.8**	**4.5**	**170 D**	**3.1**	**6100**	**65 D**	< 0.38 U
Total PAHs	NL	NL	**ND**	**50.17**	**161.1**	**1.319**	**33.21**	**61.24**	**53.73**	**ND**	**50.39**	**271.8**	**5.194**	**19.37**	**28.38**	**1845.9**	**17.708**	**99960**	**462.1**	**ND**
SVOC (mg/Kg)																					
1,1'-Biphenyl	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	**0.051 J**	< 0.41 U	**14**	< 0.19 U	**1100 J**	**0.48 J**	< 0.38 U
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.38 U
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.38 U
2,4,5-Trichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 0.38 U
2,4,6-Trichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2,4-Dichlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2,4-Dimethylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	**0.84 J**	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2,4-Dinitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 UJ	< 2.2 UJ	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 1.1 U
2,4-Dinitrotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.077 U
2,6-Dinitrotoluene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.077 U
2-Chloronaphthalene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2-Chlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	**0.63 J**	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
2-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 0.77 U
2-Nitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
3,3'-Dichlorobenzidine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.77 U
3-and 4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	**1.5**	< 0.19 U	**650 J**	< 0.99 U	NS
3-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	**0.27 J**	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 0.77 U
4,6-Dinitro-2-methylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 UJ	< 2.2 UJ	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 1.1 U
4-Bromophenyl phenyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
4-Chloro-3-methylphenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
4-Chloroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	**0.13 J**	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
4-Chlorophenyl phenyl ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
4-Nitroaniline	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	**0.21 J**	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 0.77 UJ
4-Nitrophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 1.1 U
Acetophenone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Atrazine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Benzaldehyde	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 UJ	< 1.1 UJ	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 UJ
bis(2-Chloroethoxy)methane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
bis(2-Chloroethyl) ether	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.038 U
bis(2-Ethylhexyl) phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	**0.18 J**	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Butyl benzyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	**0.25**	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-24 10/25/2011 SB-24(108-110)102511 N 108-110 460328301	SB-29 9/23/2011 SB-29(0-5)092311 N 0-5 460315781	SB-29 9/23/2011 SB-29(98)092311 N 98-98 460315781	SB-29 9/23/2011 SB-29(98-100)092311 N 98-100 460315781	SB-30 10/23/2011 SB-30(3-5)102311 N 3-5 460330951	SB-30 10/29/2011 SB-30(78-79)102911 N 78-79 460330951	SB-30 10/29/2011 DUP-1-102911 FD 78-79 460330951	SB-30 10/29/2011 SB-30(92-94)102911 N 92-94 460330951	TP-04 9/9/2011 TP-4(3-4) N 3-4 K1658	TP-04 9/9/2011 TP-4(7-7.5) N 7-7.5 K1658	TP-2B 9/9/2011 TP-2B-1(7-7.5) N 7-7.5 K1658	TP-2B 9/9/2011 TB-2B-2(7-7.5) N 7-7.5 K1658	TP-08 9/1/2011 TP-8(6.4-6.7) N 6.4-6.7 K1658	TP-12 9/7/2011 TP-12(4-5) N 4-5 K1658	TP-12A 9/8/2011 TP-12A (4-5) N 4-5 K1658	TP-16 9/2/2011 TP-16(5-6) N 5-6 K1658	TP-17 9/7/2011 TP-17(6-6.67) N 6-6.67 K1658	SB-25 7/24/2012 SB-25 (92-93)072412 N 92-93 460429191
Caprolactam	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	**0.04 J**	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Carbazole	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	**0.33**	< 1.1 U	**0.043 J**	**0.22**	**0.11 J**	**33 DJ**	**0.15 J**	**2200**	**2.2**	< 0.38 U
Diethyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Dimethyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Di-n-butyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Di-n-octyl phthalate	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Hexachlorobutadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.077 U
Hexachlorocyclopentadiene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 UJ	< 1.1 UJ	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Hexachloroethane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.038 U
Isophorone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
Nitrobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.038 U
N-Nitrosodi-n-propylamine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.038 U
N-Nitrosodiphenylamine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.38 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.38 U
Dibenzofuran	7	1000	NS	NS	NS	NS	NS	NS	NS	NS	**0.25**	< 1.1 U	< 0.19 U	**0.23**	**0.095 J**	**69 D**	**0.11 J**	**3600**	**3**	< 0.38 U
Hexachlorobenzene	0.33	12	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	< 1 U	< 0.19 U	< 1200 U	< 0.99 U	< 0.038 U
Pentachlorophenol	0.8	55	NS	NS	NS	NS	NS	NS	NS	NS	< 0.4 U	< 2.2 U	< 0.39 U	< 0.42 U	< 0.82 U	< 2 U	< 0.39 U	< 2300 U	< 2 U	< 1.1 U
Phenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	< 0.2 U	< 1.1 U	< 0.19 U	< 0.21 U	< 0.41 U	**0.77 J**	< 0.19 U	**650 J**	< 0.99 U	< 0.38 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-25 7/24/2012 SB-25 (103-105)072412 N 103-105 460429191	SB-26 7/25/2012 SB-26 (75-80)072512 N 75-80 460429191	SB-26 7/26/2012 SB-26 (88-90)072612 N 88-90 460429191	SB-31 7/14/2012 SB-31 (33-35)071412 N 33-35 460424561	SB-31 7/14/2012 SB-31 (38-40)071412 N 38-40 460424561	SB-27 1/11/2013 SB-27 (80-85) N 80-85 460493851	SB-27 1/11/2013 SB-27 (90-92) N 90-92 460493851	SB-28 1/10/2013 SB-28 (33-35) N 33-35 460493851	SB-28 1/10/2013 SB-28 (65-66) N 65-66 460493851	SB-32 1/8/2013 SB-32 (64-66) N 64-66 460492381	SB-33 1/15/2013 SB-33 (35-36) N 35-36 460495931	SB-33 1/15/2013 SB-33 (50-54) N 50-54 460495931	SB-34 1/21/2013 SB-34 (35-36) N 35-36 460498271	SB-34 1/21/2013 DUPE-1-13 FD 35-36 460498271	SB-34 1/21/2013 SB-34 (97-98) N 97-98 460498271	SB-35 1/22/2013 SB-35 (35-36) N 35-36 460498271	SB-35 1/22/2013 SB-35 (44-45) N 44-45 460498271	T1-SB7 5/21/2014 T1-SB7 (16.5-17.5) N 16.5-17.5 MC30823
PAH (mg/Kg)																					
2-Methylnaphthalene	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	**0.14 J**	**2 J**	**43000**	**0.21 J**	< 0.42 U	< 0.36 U	< 0.38 U	**570**	**0.068 J**	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	**2.6**
Acenaphthene	20	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**0.9 J**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**30 J**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	**22.2**
Acenaphthylene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**9**	**14000**	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**250**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	**7.12**
Anthracene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**13**	**4800**	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**130**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	**0.1 J**	**18.3**
Benzo(a)anthracene	1	11	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**8.9**	**2900**	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**100**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	**0.17**	**15.8**
Benzo(a)pyrene	1	1.1	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**6.3**	**2300**	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**79**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	**0.033 J**	**0.15**	**10.8**
Benzo(b)fluoranthene	1	11	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**3.3**	**1600**	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**51**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	**0.027 J**	**0.12**	**12.9**
Benzo(ghi)perylene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**2.7 J**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**34 J**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	**0.065 J**	**4.69**
Benzo(k)fluoranthene	0.8	110	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**2.2**	**550**	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**17**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	**0.06**	**3.73**
Chrysene	1	110	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**10**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**100**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	**0.19 J**	**14.7**
Dibenz(a,h)anthracene	0.33	1.1	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**0.74**	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**11**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	**1.32**
Fluoranthene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**16**	**4900**	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**160**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	**0.063 J**	**0.27 J**	**27.6**
Fluorene	30	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**9.9**	**6900**	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**140**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	**12.6**
Indeno(1,2,3-cd)pyrene	0.5	11	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	**2.2**	**530**	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	**26**	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	**0.052**	**3.87**
Naphthalene	12	1000	< 0.38 U	**0.047 J**	< 0.38 U	**0.61**	**1.2 J**	**100000**	**0.37 J**	< 0.42 U	< 0.36 U	< 0.38 U	**1000**	**0.16 J**	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	**0.4**	**6.49**
Phenanthrene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**57**	**18000**	**0.16 J**	< 0.42 U	< 0.36 U	< 0.38 U	**500**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	**0.055 J**	**0.25 J**	**43.7**
Pyrene	100	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**25**	**8100**	**0.07 J**	< 0.42 U	< 0.36 U	< 0.38 U	**200**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	**0.071 J**	**0.31 J**	**42.4**
Total PAHs	NL	NL	**ND**	**0.047**	**ND**	**0.75**	**170.34**	**207580**	**0.81**	**ND**	**ND**	**ND**	**3398**	**0.228**	**ND**	**ND**	**ND**	**0.249**	**2.137**	**250.82**
SVOC (mg/Kg)																					
1,1'-Biphenyl	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**0.78 J**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**65 J**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
1,2,4,5-TETRACHLOROBENZENE	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 UJ	< 4.1 UJ	< 4800 U	< 0.41 UJ	< 0.42 UJ	< 0.36 UJ	< 0.38 U	< 82 UJ	< 0.37 UJ	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		< 1.8 U
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		**27.6**
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		< 1.8 U
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		**24.8**
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
2,3,4,6-Tetrachlorophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
2,4,5-Trichlorophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
2,4,6-Trichlorophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
2,4-Dichlorophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
2,4-Dimethylphenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
2,4-Dinitrophenol	NL	NL	< 1.1 U	< 1.2 U	< 1.2 U	< 1.4 U	< 12 U	< 19000 UJ	< 1.2 U	< 1.3 U	< 1.1 U	< 1.2 U	< 250 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.3 U	< 1.2 U	< 1.2 U	< 7.3 U
2,4-Dinitrotoluene	NL	NL	< 0.077 U	< 0.078 U	< 0.077 U	< 0.095 U	< 0.84 U	< 960 U	< 0.083 U	< 0.086 U	< 0.074 U	< 0.078 U	< 17 U	< 0.074 U	< 0.074 U	< 0.074 U	< 0.084 U	< 0.082 U	< 0.079 U	< 3.6 U
2,6-Dinitrotoluene	NL	NL	< 0.077 U	< 0.078 U	< 0.077 U	< 0.095 U	< 0.84 U	< 960 U	< 0.083 U	< 0.086 U	< 0.074 U	< 0.078 U	< 17 U	< 0.074 U	< 0.074 U	< 0.074 U	< 0.084 U	< 0.082 U	< 0.079 U	< 3.6 U
2-Chloronaphthalene	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
2-Chlorophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
2-Methylphenol	0.33	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
2-Nitroaniline	NL	NL	< 0.77 U	< 0.78 U	< 0.77 U	< 0.95 U	< 8.4 U	< 9600 U	< 0.83 U	< 0.86 U	< 0.74 U	< 0.78 U	< 170 U	< 0.74 U	< 0.74 UJ	< 0.74 UJ	< 0.84 UJ	< 0.82 UJ	< 0.79 UJ	< 3.6 U
2-Nitrophenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
3,3'-Dichlorobenzidine	NL	NL	< 0.77 U	< 0.78 U	< 0.77 U	< 0.95 U	< 8.4 U	< 9600 U	< 0.83 U	< 0.86 U	< 0.74 U	< 0.78 U	< 170 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.84 U	< 0.82 U	< 0.79 U	< 1.8 U
3-and 4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 3.6 U
3-Nitroaniline	NL	NL	< 0.77 U	< 0.78 U	< 0.77 U	< 0.95 U	< 8.4 U	< 9600 U	< 0.83 U	< 0.86 U	< 0.74 U	< 0.78 U	< 170 U	< 0.74 U	< 0.74 U	< 0.74 U	< 0.84 U	< 0.82 U	< 0.79 U	< 3.6 U
4,6-Dinitro-2-methylphenol	NL	NL	< 1.1 U	< 1.2 U	< 1.2 U	< 1.4 UJ	< 12 U	< 19000 U	< 1.2 U	< 1.3 U	< 1.1 U	< 1.2 U	< 250 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.3 U	< 1.2 U	< 1.2 U	< 3.6 U
4-Bromophenyl phenyl ether	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
4-Chloro-3-methylphenol	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
4-Chloroaniline	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
4-Nitroaniline	NL	NL	< 0.77 UJ	< 0.78 UJ	< 0.77 UJ	< 0.95 U	< 8.4 U	< 9600 U	< 0.83 U	< 0.86 U	< 0.74 U	< 0.78 U	< 170 U	< 0.74 U	< 0.74 UJ	< 0.74 UJ	< 0.84 UJ	< 0.82 UJ	< 0.79 UJ	< 3.6 U
4-Nitrophenol	NL	NL	< 1.1 U	< 1.2 U	< 1.2 U	< 1.4 U	< 12 U	< 19000 U	< 1.2 U	< 1.3 U	< 1.1 U	< 1.2 U	< 250 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.3 U	< 1.2 U	< 1.2 U	< 7.3 U
Acetophenone	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
Atrazine	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
Benzaldehyde	NL	NL	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.47 UJ	< 4.1 UJ	< 4800 UJ	< 0.41 UJ	< 0.42 UJ	< 0.36 UJ	< 0.38 UJ	< 82 UJ	< 0.37 UJ	< 0.36 UJ	< 0.36 UJ	< 0.41 UJ	< 0.41 UJ	< 0.39 UJ	NS
bis(2-Chloroethoxy)methane	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
bis(2-Chloroethyl) ether	NL	NL	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	< 0.41 U	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	< 8.2 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	< 1.8 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Butyl benzyl phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-25 7/24/2012 SB-25 (103-105)072412 N 103-105 460429191	SB-26 7/25/2012 SB-26 (75-80)072512 N 75-80 460429191	SB-26 7/26/2012 SB-26 (88-90)072612 N 88-90 460429191	SB-31 7/14/2012 SB-31 (33-35)071412 N 33-35 460424561	SB-31 7/14/2012 SB-31 (38-40)071412 N 38-40 460424561	SB-27 1/11/2013 SB-27 (80-85) N 80-85 460493851	SB-27 1/11/2013 SB-27 (90-92) N 90-92 460493851	SB-28 1/10/2013 SB-28 (33-35) N 33-35 460493851	SB-28 1/10/2013 SB-28 (65-66) N 65-66 460493851	SB-32 1/8/2013 SB-32 (64-66) N 64-66 460492381	SB-33 1/15/2013 SB-33 (35-36) N 35-36 460495931	SB-33 1/15/2013 SB-33 (50-54) N 50-54 460495931	SB-34 1/21/2013 SB-34 (35-36) N 35-36 460498271	SB-34 1/21/2013 DUPE-1-13 FD 35-36 460498271	SB-34 1/21/2013 SB-34 (97-98) N 97-98 460498271	SB-35 1/22/2013 SB-35 (35-36) N 35-36 460498271	SB-35 1/22/2013 SB-35 (44-45) N 44-45 460498271	T1-SB7 5/21/2014 T1-SB7 (16.5-17.5) N 16.5-17.5 MC30823
Caprolactam	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 UJ	< 0.36 UJ	< 0.41 UJ	< 0.41 UJ	< 0.39 UJ	NS
Carbazole	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**0.52 J**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 0.73 U
Diethyl phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Dimethyl phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Di-n-butyl phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Di-n-octyl phthalate	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Hexachlorobutadiene	NL	NL	< 0.077 U	< 0.078 U	< 0.077 U	< 0.095 U	< 0.84 U	< 960 U	< 0.083 U	< 0.086 U	< 0.074 U	< 0.078 U	< 17 U	< 0.074 U	< 0.074 U	< 0.074 U	< 0.084 U	< 0.082 U	< 0.079 U	< 1.8 U
Hexachlorocyclopentadiene	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 UJ	< 4.1 U	< 4800 U	< 0.41 UJ	< 0.42 UJ	< 0.36 UJ	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 3.6 U
Hexachloroethane	NL	NL	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	< 0.41 U	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	< 8.2 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	< 1.8 U
Isophorone	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
Nitrobenzene	NL	NL	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	< 0.41 U	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	< 8.2 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	< 1.8 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	< 0.41 U	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	< 8.2 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	< 1.8 U
N-Nitrosodiphenylamine	NL	NL	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U
4-Methylphenol	0.33	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	NS
Dibenzofuran	7	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	**0.79 J**	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	**20 J**	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	**1.92**
Hexachlorobenzene	0.33	12	< 0.038 U	< 0.038 U	< 0.038 U	< 0.047 U	< 0.41 U	< 480 U	< 0.041 U	< 0.042 U	< 0.036 U	< 0.038 U	< 8.2 U	< 0.037 U	< 0.036 U	< 0.036 U	< 0.041 U	< 0.041 U	< 0.039 U	< 1.8 U
Pentachlorophenol	0.8	55	< 1.1 U	< 1.2 U	< 1.2 U	< 1.4 U	< 12 U	< 19000 U	< 1.2 U	< 1.3 U	< 1.1 U	< 1.2 U	< 250 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.3 U	< 1.2 U	< 1.2 U	< 3.6 U
Phenol	0.33	1000	< 0.38 U	< 0.38 U	< 0.38 U	< 0.47 U	< 4.1 U	< 4800 U	< 0.41 U	< 0.42 U	< 0.36 U	< 0.38 U	< 82 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.41 U	< 0.41 U	< 0.39 U	< 1.8 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	T1-SB7 5/21/2014 T1-SB7 (22-23) N 22-23 MC30823	T1-SB8 5/21/2014 T1-SB8 (17-18.5) N 17-18.5 MC30823	T1-SB8 5/21/2014 T1-SB8 (23-24) N 23-24 MC30823	T1-SB9 5/21/2014 T1-SB9 (15-18) N 15-18 MC30823	T1-SB9 5/21/2014 T1-SB9 (18-20) N 18-20 MC30823	T1-SB9 5/21/2014 DUP-5/21/14 FD 18-20 MC30823	T2-SB1 5/20/2014 T2-SB1 (15-20) N 15-20 MC30767	T2-SB1 5/20/2014 T2-SB1 (21-22) N 21-22 MC30767	T2-SB4 5/20/2014 T2-SB4 (5-10) N 5-10 MC30823	T5-SB2 10/15/2014 T5-SB2(18-19)101514 N 18-19 MC34374	T5-SB2 10/15/2014 T5-SB2(21.5-25)101514 N 21.5-25 MC34374	T5-SB7 10/13/2014 T5-SB7 (10-11)101314 N 10-11 MC34323	T5-SB7 10/13/2014 T5-SB7 (11.5-15)101314 N 11.5-15 MC34323	SB-40 4/1/2015 SB40 (9-10)_460-92568-1 N 9-10 92355, 92511, 92568	SB-40 4/1/2015 SB40 (20-23.5)_460-92568-2 N 20-23.5 92355, 92511, 92568
PAH (mg/Kg)																	
2-Methylnaphthalene	NL	NL	**0.339**	**885**	**0.872**	**9.71**	**48.1 J**	**8.48 J**	**9.34**	< 0.18 U	**2**	**688**	**0.297**	**2.02**	< 0.16 U	**11 J**	**87**
Acenaphthene	20	1000	< 0.12 U	**519**	**0.788**	**60.6**	**26.9 J**	**3.06 J**	**8.09**	< 0.18 U	< 0.59 U	**561**	< 0.17 U	**1.44**	< 0.16 U	**30**	**12**
Acenaphthylene	100	1000	< 0.12 U	**32.2**	< 0.18 U	**12.7**	**5.91 J**	**0.469 J**	< 4.9 U	< 0.18 U	< 0.59 U	**98.6**	< 0.17 U	**2.18**	< 0.16 U	**1.5 J**	**53**
Anthracene	100	1000	< 0.12 U	**223**	**0.532**	**61.1**	**13.9 J**	**1.08 J**	**5.28**	< 0.18 U	< 0.59 U	**529**	< 0.17 U	**3.45**	< 0.16 U	**56**	**43**
Benzo(a)anthracene	1	11	< 0.12 U	**129**	**0.47**	**50.3**	**13.2 J**	**0.919 J**	**6**	< 0.18 U	**0.841**	**358**	< 0.17 U	**8.29**	< 0.16 U	**73**	**31**
Benzo(a)pyrene	1	1.1	< 0.12 U	**89.8**	**0.324**	**30.8**	**10.2 J**	**0.718 J**	< 4.9 U	< 0.18 U	**0.653**	**249**	< 0.17 U	**9.55**	< 0.16 U	**61**	**20**
Benzo(b)fluoranthene	1	11	< 0.12 U	**74.2**	**0.299**	**30**	**7.85 J**	**0.55 J**	**5.61**	< 0.18 U	**0.829**	**119**	< 0.17 U	**11.8**	< 0.16 U	**66**	**13**
Benzo(ghi)perylene	100	1000	< 0.12 U	**27.6**	< 0.18 U	**11.6**	**3.75 J**	**0.273 J**	< 4.9 U	< 0.18 U	< 0.59 U	**79.5**	< 0.17 U	**7.23**	< 0.16 U	**32**	**6.8 J**
Benzo(k)fluoranthene	0.8	110	< 0.12 U	**27.1**	< 0.18 U	**9.52**	**2.46 J**	**0.181 J**	< 4.9 U	< 0.18 U	< 0.59 U	**140**	< 0.17 U	**3.62**	< 0.16 U	**27**	**5.5**
Chrysene	1	110	< 0.12 U	**111**	**0.343**	**45.1**	**9.61 J**	**0.665 J**	< 4.9 U	< 0.18 U	**0.694**	**331**	< 0.17 U	**8.1**	< 0.16 U	**81**	**29**
Dibenz(a,h)anthracene	0.33	1.1	< 0.12 U	**8.67**	< 0.18 U	**3.87**	**0.999 J**	< 0.18 UJ	< 4.9 U	< 0.18 U	< 0.59 U	**26.9**	< 0.17 U	**1.68**	< 0.16 U	**9.5 J**	**2.5 J**
Fluoranthene	100	1000	< 0.12 U	**237**	**0.802**	**84.5**	**16.9 J**	**1.14 J**	**14.3**	**0.198**	**1.83**	**667**	< 0.17 U	**15.5**	< 0.16 U	**180**	**40**
Fluorene	30	1000	< 0.12 U	**261**	**0.479**	**50.8**	**18.4 J**	**1.78 J**	**7.54**	< 0.18 U	< 0.59 U	**469**	< 0.17 U	**2.11**	< 0.16 U	**37**	**42**
Indeno(1,2,3-cd)pyrene	0.5	11	< 0.12 U	**23.5**	< 0.18 U	**9.17**	**3.01 J**	**0.213 J**	< 4.9 U	< 0.18 U	< 0.59 U	**71.2**	< 0.17 U	**7.6**	< 0.16 U	**36 J**	**7 J**
Naphthalene	12	1000	**1.51**	**1720**	**2.58**	**13.2**	**108 J**	**44.6 J**	< 4.9 U	< 0.18 U	**0.9**	**1280**	**0.996 J**	**3.24**	< 0.16 U	**38**	**66**
Phenanthrene	100	1000	< 0.12 U	**706**	**1.94**	**253**	**43.9 J**	**4.09 J**	**20.5**	**0.256**	**2.34**	**1800**	< 0.17 U	**14.2**	< 0.16 U	**260**	**160**
Pyrene	100	1000	< 0.12 U	**452**	**1.37**	**192**	**28 J**	**2.02 J**	**23.1**	**0.428**	**2.01**	**946**	< 0.17 U	**14.6**	< 0.16 U	**190**	**64**
Total PAHs	NL	NL	**1.849**	**5526.07**	**10.799**	**927.97**	**361.089**	**70.238**	**99.76**	**0.882**	**12.097**	**8413.2**	**1.293**	**116.61**	**ND**	**1189**	**681.8**
SVOC (mg/Kg)																	
1,1'-Biphenyl	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.4 J**	**13**
1,2,4,5-TETRACHLOROBENZENE	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
1,2,4-Trichlorobenzene	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	NS	NS
1,2-Dichlorobenzene	1.1	1000	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	NS	NS
1,3-Dichlorobenzene	2.4	560	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	NS	NS
1,4-Dichlorobenzene	1.8	250	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
2,3,4,6-Tetrachlorophenol	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
2,4,5-Trichlorophenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
2,4,6-Trichlorophenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 7.8 U	< 4.1 U
2,4-Dichlorophenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 7.8 U	< 4.1 U
2,4-Dimethylphenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
2,4-Dinitrophenol	NL	NL	< 1.2 U	< 14 U	< 1.8 UJ	< 11 U	< 9.1 U	< 1.8 U	< 49 U	< 1.8 U	< 5.9 U	< 52 U	< 1.7 U	< 6.7 U	< 1.6 U	< 16 U	< 8.3 U
2,4-Dinitrotoluene	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 3.9 U	< 2.1 U
2,6-Dinitrotoluene	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 3.9 U	< 2.1 U
2-Chloronaphthalene	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
2-Chlorophenol	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
2-Methylphenol	0.33	1000	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
2-Nitroaniline	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
2-Nitrophenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
3,3'-Dichlorobenzidine	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 7.8 U	< 4.1 U
3-and 4-Methylphenol	0.33	1000	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	NS	NS
3-Nitroaniline	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 16 U	< 8.3 U
4-Bromophenyl phenyl ether	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
4-Chloro-3-methylphenol	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
4-Chloroaniline	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
4-Nitroaniline	NL	NL	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
4-Nitrophenol	NL	NL	< 1.2 U	< 14 U	< 1.8 U	< 11 U	< 9.1 U	< 1.8 U	< 49 U	< 1.8 U	< 5.9 U	< 52 U	< 1.7 U	< 6.7 U	< 1.6 U	< 39 U	< 21 U
Acetophenone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
Atrazine	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 7.8 U	< 4.1 U
Benzaldehyde	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
bis(2-Chloroethoxy)methane	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
bis(2-Chloroethyl) ether	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 1.9 U	< 1 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
Butyl benzyl phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U

Table 5-7
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Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	T1-SB7 5/21/2014 T1-SB7 (22-23) N 22-23 MC30823	T1-SB8 5/21/2014 T1-SB8 (17-18.5) N 17-18.5 MC30823	T1-SB8 5/21/2014 T1-SB8 (23-24) N 23-24 MC30823	T1-SB9 5/21/2014 T1-SB9 (15-18) N 15-18 MC30823	T1-SB9 5/21/2014 T1-SB9 (18-20) N 18-20 MC30823	T1-SB9 5/21/2014 DUP-5/21/14 FD 18-20 MC30823	T2-SB1 5/20/2014 T2-SB1 (15-20) N 15-20 MC30767	T2-SB1 5/20/2014 T2-SB1 (21-22) N 21-22 MC30767	T2-SB4 5/20/2014 T2-SB4 (5-10) N 5-10 MC30823	T5-SB2 10/15/2014 T5-SB2(18-19)101514 N 18-19 MC34374	T5-SB2 10/15/2014 T5-SB2(21.5-25)101514 N 21.5-25 MC34374	T5-SB7 10/13/2014 T5-SB7 (10-11)101314 N 10-11 MC34323	T5-SB7 10/13/2014 T5-SB7 (11.5-15)101314 N 11.5-15 MC34323	SB-40 4/1/2015 SB40 (9-10)_460-92568-1 N 9-10 92355, 92511, 92568	SB-40 4/1/2015 SB40 (20-23.5)_460-92568-2 N 20-23.5 92355, 92511, 92568
Caprolactam	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
Carbazole	NL	NL	< 0.12 U	**5.99**	< 0.18 U	< 1.1 U	< 0.91 U	< 0.18 U	< 4.9 U	< 0.18 U	< 0.59 U	< 5.2 U	< 0.17 U	**1.85**	< 0.16 U	**16 J**	**0.77 J**
Diethyl phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
Dimethyl phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
Di-n-butyl phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
Di-n-octyl phthalate	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
Hexachlorobutadiene	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 3.9 U	< 2.1 U
Hexachlorocyclopentadiene	NL	NL	< 0.62 U	< 7.1 U	< 0.89 UJ	< 5.6 U	< 4.6 U	< 0.91 U	< 25 UJ	< 0.92 UJ	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 19 U	< 10 U
Hexachloroethane	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 1.9 U	< 1 U
Isophorone	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 7.8 U	< 4.1 U
Nitrobenzene	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 1.9 U	< 1 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 1.9 U	< 1 U
N-Nitrosodiphenylamine	NL	NL	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 19 U	< 10 U
4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 19 U	< 10 U
Dibenzofuran	7	1000	< 0.12 U	**21.4**	< 0.18 U	< 1.1 U	**1.61 J**	< 0.18 UJ	< 4.9 U	< 0.18 U	< 0.59 U	**27.8**	< 0.17 U	**1.29**	< 0.16 U	**21**	< 10 U
Hexachlorobenzene	0.33	12	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	< 0.46 U	< 1.5 U	< 13 U	< 0.42 U	< 1.7 U	< 0.41 U	< 1.9 U	< 1 U
Pentachlorophenol	0.8	55	< 0.62 U	< 7.1 U	< 0.89 U	< 5.6 U	< 4.6 U	< 0.91 U	< 25 U	< 0.92 U	< 2.9 U	< 26 U	< 0.85 U	< 3.3 U	< 0.82 U	< 16 U	< 8.3 U
Phenol	0.33	1000	< 0.31 U	< 3.6 U	< 0.44 U	< 2.8 U	< 2.3 U	< 0.45 U	< 12 U	**0.762**	< 1.5 U	< 13 U	**1.61**	< 1.7 U	< 0.41 U	< 19 U	< 10 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-40 4/1/2015 SB40 (50-55)_460-92568-3 N 50-55 92355, 92511, 92568	SB-41 3/31/2015 SB41 (5-10)_460-92568-4 N 5-10 92355, 92511, 92568	SB-41 4/1/2015 SB41 (35-37)_460-92568-5 N 35-37 92355, 92511, 92568	SB-41 4/1/2015 SB41 (38-39)_460-92568-6 N 38-39 92355, 92511, 92568	SB-42 3/30/2015 SB42(9-10)_460-92511-1 N 9-10 92355, 92511, 92568	SB-42 3/30/2015 SB42(35-37.5)_460-92511-2 N 35-37.5 92355, 92511, 92568	SB-42 3/30/2015 SB42(49-50)_460-92511-3 N 49-50 92355, 92511, 92568	SB-43 3/26/2015 SB43 (8-9)_460-92355-1 N 8-9 92355, 92511, 92568	SB-43 3/26/2015 SB43 (45-48)_460-92355-2 N 45-48 92355, 92511, 92568	SB-43 3/26/2015 DUPE-032615_460-92355-4 FD 45-48 92355, 92511, 92568	SB-43 3/26/2015 SB43 (49-50)_460-92355-3 N 49-50 92355, 92511, 92568
PAH (mg/Kg)													
2-Methylnaphthalene	NL	NL	**0.72**	**12 J**	**36**	**0.49**	< 0.37 UJ	< 0.37 U	< 0.38 U	**2.6 J**	**370**	**400**	**0.21 J**
Acenaphthene	20	1000	**0.32 J**	**19 J**	**3 J**	**0.028 J**	< 0.37 U	< 0.37 U	< 0.38 U	**2.8 J**	**19 J**	**22**	**0.016 J**
Acenaphthylene	100	1000	**0.34 J**	**3.1 J**	**21**	**0.22 J**	< 0.37 U	< 0.37 U	< 0.38 U	**7.5**	**240**	**270**	**0.15 J**
Anthracene	100	1000	**1.3**	**48**	**19**	**0.11 J**	< 0.37 U	< 0.37 U	< 0.38 U	**13**	**87**	**97**	**0.15 J**
Benzo(a)anthracene	1	11	**1.4**	**63**	**13**	**0.1**	< 0.037 U	< 0.037 U	< 0.038 U	**29**	**53**	**58**	**0.14**
Benzo(a)pyrene	1	1.1	**0.92**	**52**	**9.3**	**0.072**	< 0.037 U	< 0.037 U	< 0.038 U	**23**	**41**	**44**	**0.11**
Benzo(b)fluoranthene	1	11	**0.77**	**77**	**7.2**	**0.067**	< 0.037 U	< 0.037 U	< 0.038 U	**31**	**32**	**36**	**0.1**
Benzo(ghi)perylene	100	1000	**0.18 J**	**13**	**2.8 J**	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	**11**	**14 J**	**16 J**	**0.028 J**
Benzo(k)fluoranthene	0.8	110	**0.32**	**28**	**3**	**0.023 J**	< 0.037 U	< 0.037 U	< 0.038 U	**11**	**12**	**12**	**0.035 J**
Chrysene	1	110	**1.4**	**64**	**12**	**0.096 J**	< 0.37 U	< 0.37 U	< 0.38 U	**26**	**49**	**56**	**0.11 J**
Dibenz(a,h)anthracene	0.33	1.1	**0.067**	**4.7 J-**	**0.95 J**	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	**4.1**	**4.9**	**5.4**	< 0.04 U
Fluoranthene	100	1000	**1.9**	**180**	**25**	**0.15 J**	< 0.37 U	**0.013 J**	< 0.38 U	**62**	**100**	**110**	**0.22 J**
Fluorene	30	1000	**0.53**	**28**	**27**	**0.19 J**	< 0.37 U	< 0.37 U	< 0.38 U	**8.1**	**140**	**160**	**0.16 J**
Indeno(1,2,3-cd)pyrene	0.5	11	**0.21**	**18**	**3.4 J**	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	**14**	**16**	**17**	**0.03 J**
Naphthalene	12	1000	**0.6**	**35**	**24**	**1.1**	< 0.37 UJ	< 0.37 U	< 0.38 U	**7.9**	**470**	**420**	**0.36 J**
Phenanthrene	100	1000	**5.3**	**220**	**87**	**0.54**	< 0.37 U	**0.015 J**	< 0.38 U	**46**	**340**	**380**	**0.6**
Pyrene	100	1000	**3.4**	**100**	**30**	**0.33 J**	< 0.37 UJ	< 0.37 U	< 0.38 U	**50**	**150**	**160**	**0.4**
Total PAHs	NL	NL	**19.677**	**964.8**	**323.65**	**3.516**	**ND**	**0.028**	**ND**	**349**	**2137.9**	**2263.4**	**2.819**
SVOC (mg/Kg)													
1,1'-Biphenyl	NL	NL	**0.2 J**	**4.5 J**	**8**	**0.055 J**	< 0.37 U	< 0.37 U	< 0.38 U	**0.8 J**	**41**	**46**	< 0.4 U
1,2,4,5-TETRACHLOROBENZENE	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2,3,4,6-Tetrachlorophenol	NL	NL	< 0.38 U	R	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2,4,5-Trichlorophenol	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2,4,6-Trichlorophenol	NL	NL	< 0.15 U	< 7.9 U	< 1.5 U	< 0.18 U	< 0.15 UJ	< 0.15 U	< 0.15 U	< 1.5 U	< 8 U	< 8 U	< 0.16 U
2,4-Dichlorophenol	NL	NL	< 0.15 U	< 7.9 U	< 1.5 U	< 0.18 U	< 0.15 UJ	< 0.15 U	< 0.15 U	< 1.5 U	< 8 U	< 8 U	< 0.16 U
2,4-Dimethylphenol	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2,4-Dinitrophenol	NL	NL	< 0.3 U	< 16 UJ	< 3 U	< 0.35 U	R	< 0.3 U	< 0.3 U	< 3 U	< 16 U	< 16 U	< 0.33 U
2,4-Dinitrotoluene	NL	NL	< 0.076 U	< 4 U	< 0.77 U	< 0.088 U	< 0.075 U	< 0.075 U	< 0.076 U	< 0.75 U	< 4 U	< 4 U	< 0.082 U
2,6-Dinitrotoluene	NL	NL	< 0.076 U	< 4 U	< 0.77 U	< 0.088 U	< 0.075 U	< 0.075 U	< 0.076 U	< 0.75 U	< 4 U	< 4 U	< 0.082 U
2-Chloronaphthalene	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2-Chlorophenol	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2-Methylphenol	0.33	1000	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2-Nitroaniline	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 UJ	< 0.38 UJ	< 3.7 U	< 20 U	< 20 U	< 0.4 U
2-Nitrophenol	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
3,3'-Dichlorobenzidine	NL	NL	< 0.15 U	< 7.9 U	< 1.5 U	< 0.18 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1.5 U	< 8 U	< 8 U	< 0.16 U
3-and 4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-Nitroaniline	NL	NL	< 0.38 U	R	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.3 U	R	< 3 U	< 0.35 U	< 0.3 U	< 0.3 U	< 0.3 U	< 3 U	< 16 U	< 16 U	< 0.33 U
4-Bromophenyl phenyl ether	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Chloro-3-methylphenol	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Chloroaniline	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Nitroaniline	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Nitrophenol	NL	NL	< 0.76 U	< 40 U	< 7.7 U	< 0.88 U	< 0.75 UJ	< 0.75 U	< 0.76 U	< 7.5 U	< 40 U	< 40 U	< 0.82 U
Acetophenone	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Atrazine	NL	NL	< 0.15 U	< 7.9 U	< 1.5 U	< 0.18 U	< 0.15 U	< 0.15 U	< 0.15 U	< 1.5 U	< 8 U	< 8 U	< 0.16 U
Benzaldehyde	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
bis(2-Chloroethoxy)methane	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
bis(2-Chloroethyl) ether	NL	NL	< 0.038 U	< 2 U	< 0.38 U	< 0.044 U	< 0.037 UJ	< 0.037 U	< 0.038 U	< 0.37 U	< 2 U	< 2 U	< 0.04 U
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Butyl benzyl phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-40 4/1/2015 SB40 (50-55)_460-92568-3 N 50-55 92355, 92511, 92568	SB-41 3/31/2015 SB41 (5-10)_460-92568-4 N 5-10 92355, 92511, 92568	SB-41 4/1/2015 SB41 (35-37)_460-92568-5 N 35-37 92355, 92511, 92568	SB-41 4/1/2015 SB41 (38-39)_460-92568-6 N 38-39 92355, 92511, 92568	SB-42 3/30/2015 SB42(9-10)_460-92511-1 N 9-10 92355, 92511, 92568	SB-42 3/30/2015 SB42(35-37.5)_460-92511-2 N 35-37.5 92355, 92511, 92568	SB-42 3/30/2015 SB42(49-50)_460-92511-3 N 49-50 92355, 92511, 92568	SB-43 3/26/2015 SB43 (8-9)_460-92355-1 N 8-9 92355, 92511, 92568	SB-43 3/26/2015 SB43 (45-48)_460-92355-2 N 45-48 92355, 92511, 92568	SB-43 3/26/2015 DUPE-032615_460-92355-4 FD 45-48 92355, 92511, 92568	SB-43 3/26/2015 SB43 (49-50)_460-92355-3 N 49-50 92355, 92511, 92568
Caprolactam	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Carbazole	NL	NL	< 0.38 U	**19 J**	**0.66 J**	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	**3.3 J**	**3.3 J**	**3.3 J**	< 0.4 U
Diethyl phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Dimethyl phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Di-n-butyl phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Di-n-octyl phthalate	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Hexachlorobutadiene	NL	NL	< 0.076 U	< 4 U	< 0.77 U	< 0.088 U	< 0.075 U	< 0.075 U	< 0.076 U	< 0.75 U	< 4 U	< 4 U	< 0.082 U
Hexachlorocyclopentadiene	NL	NL	< 0.38 U	R	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
Hexachloroethane	NL	NL	< 0.038 U	< 2 U	< 0.38 U	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.37 U	< 2 U	< 2 U	< 0.04 U
Isophorone	NL	NL	< 0.15 U	< 7.9 U	< 1.5 U	< 0.18 U	< 0.15 UJ	< 0.15 U	< 0.15 U	< 1.5 U	< 8 U	< 8 U	< 0.16 U
Nitrobenzene	NL	NL	< 0.038 U	< 2 U	< 0.38 U	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.37 U	< 2 U	< 2 U	< 0.04 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.038 U	< 2 U	< 0.38 U	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.37 U	< 2 U	< 2 U	< 0.04 U
N-Nitrosodiphenylamine	NL	NL	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 U	< 0.37 U	< 0.38 U	< 3.7 U	< 20 U	< 20 U	< 0.4 U
4-Methylphenol	0.33	1000	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	**0.39 J**	< 20 U	< 20 U	< 0.4 U
Dibenzofuran	7	1000	< 0.38 U	**23**	**2.4 J**	**0.017 J**	< 0.37 U	< 0.37 U	< 0.38 U	**4**	**14 J**	**17 J**	**0.017 J**
Hexachlorobenzene	0.33	12	< 0.038 U	< 2 U	< 0.38 U	< 0.044 U	< 0.037 U	< 0.037 U	< 0.038 U	< 0.37 U	< 2 U	< 2 U	< 0.04 U
Pentachlorophenol	0.8	55	< 0.3 U	R	< 3 U	< 0.35 U	< 0.3 UJ	< 0.3 U	< 0.3 U	< 3 U	< 16 U	< 16 U	< 0.33 U
Phenol	0.33	1000	< 0.38 U	< 20 U	< 3.8 U	< 0.44 U	< 0.37 UJ	< 0.37 U	< 0.38 U	**0.34 J**	< 20 U	< 20 U	< 0.4 U

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-44 3/27/2015 SB44 (9-10)_460-92355-5 N 9-10 92355, 92511, 92568	SB-44 3/27/2015 SB44 (38-40)_460-92355-6 N 38-40 92355, 92511, 92568	SB-44 3/27/2015 SB44 (49-50)_460-92355-7 N 49-50 92355, 92511, 92568	SB-45 4/29/2015 SB-45 (10-11)_460-94062-1 N 10-11 94062, 94148	SB-45 4/29/2015 SB-45 (18-20)_460-94062-2 N 18-20 94062, 94148	SB-45 4/29/2015 SB-45 (45-48)_460-94062-4 N 45-48 94062, 94148	SB-45 4/29/2015 SB-45 (50-55)_460-94062-3 N 50-55 94062, 94148	SB-46 5/1/2015 SB-46 (11-15)_460-94148-5 N 11-15 94062, 94148	SB-46 5/1/2015 SB-46 (40-43)_460-94148-7 N 40-43 94062, 94148	SB-46 5/1/2015 SB-46 (45-50)_460-94148-6 N 45-50 94062, 94148	SB-47 4/30/2015 SB-47 (10-14)_460-94148-1 N 10-14 94062, 94148
PAH (mg/Kg)													
2-Methylnaphthalene	NL	NL	**0.97**	**0.34 J**	**0.4 J**	**0.066 J**	**4.1**	< 0.4 U	< 0.45 U	**0.85**	**0.14 J**	< 0.41 U	**4 J**
Acenaphthene	20	1000	**0.063 J**	**0.12 J**	< 0.43 U	**0.093 J**	**3.8**	< 0.4 U	< 0.45 U	**0.091 J**	**0.15 J**	< 0.41 U	< 9 UJ
Acenaphthylene	100	1000	**0.055 J**	**0.031 J**	**0.066 J**	**0.022 J**	**0.18 J**	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Anthracene	100	1000	**0.12 J**	< 0.4 U	< 0.43 U	**0.13 J**	**1.1**	< 0.4 U	< 0.45 U	**0.078 J**	**0.037 J**	< 0.41 U	**1.6 J**
Benzo(a)anthracene	1	11	**0.22**	< 0.04 U	< 0.043 U	**0.39**	**0.71**	< 0.04 U	< 0.045 U	**0.1**	< 0.039 U	< 0.041 U	**2.2 J**
Benzo(a)pyrene	1	1.1	**0.17**	< 0.04 U	< 0.043 U	**0.39**	**0.5**	< 0.04 U	< 0.045 U	**0.077**	< 0.039 U	< 0.041 U	**1.7 J**
Benzo(b)fluoranthene	1	11	**0.25**	< 0.04 U	< 0.043 U	**0.49**	**0.41**	< 0.04 U	< 0.045 U	**0.14**	< 0.039 U	< 0.041 U	**2.1 J**
Benzo(ghi)perylene	100	1000	**0.12 J**	< 0.4 U	< 0.43 U	**0.25 J**	**0.24 J**	< 0.4 U	< 0.45 U	**0.071 J**	< 0.39 U	< 0.41 U	< 9 UJ
Benzo(k)fluoranthene	0.8	110	**0.072**	< 0.04 U	< 0.043 U	**0.19**	**0.15**	< 0.04 U	< 0.045 U	**0.044**	< 0.039 U	< 0.041 U	**0.8 J**
Chrysene	1	110	**0.22 J**	< 0.4 U	< 0.43 U	**0.42**	**0.67**	< 0.4 U	< 0.45 U	**0.12 J**	< 0.39 U	< 0.41 U	**2.1 J**
Dibenz(a,h)anthracene	0.33	1.1	**0.032 J**	< 0.04 U	< 0.043 U	**0.063**	**0.073**	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
Fluoranthene	100	1000	**0.45**	< 0.4 U	< 0.43 U	**0.83**	**1.3**	< 0.4 U	< 0.45 U	**0.2 J**	**0.13 J**	< 0.41 U	**5.2 J**
Fluorene	30	1000	**0.14 J**	**0.063 J**	**0.025 J**	**0.091 J**	**1.7**	< 0.4 U	< 0.45 U	**0.15 J**	**0.12 J**	< 0.41 U	< 9 UJ
Indeno(1,2,3-cd)pyrene	0.5	11	**0.11**	< 0.04 U	< 0.043 U	**0.32**	**0.25**	< 0.04 U	< 0.045 U	**0.068**	< 0.039 U	< 0.041 U	**1.2 J**
Naphthalene	12	1000	**1.5**	**1**	**0.92**	**0.13 J**	**6.3**	< 0.4 U	< 0.45 U	**0.47**	**0.23 J**	< 0.41 U	**3 J**
Phenanthrene	100	1000	**0.63**	**0.031 J**	**0.02 J**	**0.72**	**4.3**	< 0.4 U	< 0.45 U	**0.19 J**	**0.44**	< 0.41 U	**3.3 J**
Pyrene	100	1000	**0.5**	**0.028 J**	< 0.43 U	**0.77**	**1.5**	< 0.4 U	< 0.45 U	**0.068 J**	**0.094 J**	< 0.41 U	**4.2 J**
Total PAHs	NL	NL	**5.622**	**1.613**	**1.431**	**5.365**	**27.283**	**ND**	**ND**	**2.717**	**1.341**	**ND**	**31.4**
SVOC (mg/Kg)													
1,1'-Biphenyl	NL	NL	**0.062 J**	**0.035 J**	< 0.43 U	**0.038 J**	**0.54 J**	< 0.4 U	< 0.45 U	**0.043 J**	< 0.39 U	< 0.41 U	< 9 UJ
1,2,4,5-TETRACHLOROBENZENE	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 UJ	< 0.39 U	< 0.41 U	< 9 UJ
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2,3,4,6-Tetrachlorophenol	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 UJ	< 0.39 U	< 0.41 U	< 9 UJ
2,4,5-Trichlorophenol	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 UJ	< 0.39 U	< 0.41 U	< 9 UJ
2,4,6-Trichlorophenol	NL	NL	< 0.15 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.24 U	< 0.16 U	< 0.18 U	< 0.17 UJ	< 0.16 U	< 0.16 U	< 3.6 UJ
2,4-Dichlorophenol	NL	NL	< 0.15 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.24 U	< 0.16 U	< 0.18 U	< 0.17 UJ	< 0.16 U	< 0.16 U	< 3.6 UJ
2,4-Dimethylphenol	NL	NL	**0.11 J**	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2,4-Dinitrophenol	NL	NL	< 0.29 U	< 0.32 U	< 0.35 U	< 0.33 U	< 0.47 U	< 0.32 U	< 0.36 U	R	< 0.31 U	< 0.33 U	< 7.3 UJ
2,4-Dinitrotoluene	NL	NL	< 0.074 U	< 0.082 U	< 0.088 U	< 0.083 U	< 0.12 U	< 0.082 U	< 0.091 U	< 0.086 U	< 0.078 U	< 0.083 U	< 1.8 UJ
2,6-Dinitrotoluene	NL	NL	< 0.074 U	< 0.082 U	< 0.088 U	< 0.083 U	< 0.12 U	< 0.082 U	< 0.091 U	< 0.086 U	< 0.078 U	< 0.083 U	< 1.8 UJ
2-Chloronaphthalene	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2-Chlorophenol	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2-Methylphenol	0.33	1000	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2-Nitroaniline	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
2-Nitrophenol	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 UJ	< 0.39 U	< 0.41 U	< 9 UJ
3,3'-Dichlorobenzidine	NL	NL	< 0.15 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.24 U	< 0.16 U	< 0.18 U	< 0.17 U	< 0.16 U	< 0.16 U	< 3.6 UJ
3-and 4-Methylphenol	0.33	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3-Nitroaniline	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4,6-Dinitro-2-methylphenol	NL	NL	< 0.29 U	< 0.32 U	< 0.35 U	< 0.33 U	< 0.47 U	< 0.32 U	< 0.36 U	< 0.34 U	< 0.31 U	< 0.33 U	< 7.3 UJ
4-Bromophenyl phenyl ether	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Chloro-3-methylphenol	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Chloroaniline	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Chlorophenyl phenyl ether	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Nitroaniline	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Nitrophenol	NL	NL	< 0.74 U	< 0.82 U	< 0.88 U	< 0.83 U	< 1.2 U	< 0.82 U	< 0.91 U	< 0.86 U	< 0.78 U	< 0.83 U	< 18 UJ
Acetophenone	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Atrazine	NL	NL	< 0.15 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.24 U	< 0.16 U	< 0.18 U	< 0.17 U	< 0.16 U	< 0.16 U	< 3.6 UJ
Benzaldehyde	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	**0.085 J**	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
bis(2-Chloroethoxy)methane	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
bis(2-Chloroethyl) ether	NL	NL	< 0.036 U	< 0.04 U	< 0.043 U	< 0.041 U	< 0.059 U	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
bis(2-Ethylhexyl) phthalate	NL	NL	< 0.36 U	**0.026 J**	**0.082 J**	**0.15 J**	**0.51 J**	< 0.4 U	< 0.45 U	**0.15 J**	< 0.39 U	< 0.41 U	**1.1 J**
Butyl benzyl phthalate	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-44 3/27/2015 SB44 (9-10)_460-92355-5 N 9-10 92355, 92511, 92568	SB-44 3/27/2015 SB44 (38-40)_460-92355-6 N 38-40 92355, 92511, 92568	SB-44 3/27/2015 SB44 (49-50)_460-92355-7 N 49-50 92355, 92511, 92568	SB-45 4/29/2015 SB-45 (10-11)_460-94062-1 N 10-11 94062, 94148	SB-45 4/29/2015 SB-45 (18-20)_460-94062-2 N 18-20 94062, 94148	SB-45 4/29/2015 SB-45 (45-48)_460-94062-4 N 45-48 94062, 94148	SB-45 4/29/2015 SB-45 (50-55)_460-94062-3 N 50-55 94062, 94148	SB-46 5/1/2015 SB-46 (11-15)_460-94148-5 N 11-15 94062, 94148	SB-46 5/1/2015 SB-46 (40-43)_460-94148-7 N 40-43 94062, 94148	SB-46 5/1/2015 SB-46 (45-50)_460-94148-6 N 45-50 94062, 94148	SB-47 4/30/2015 SB-47 (10-14)_460-94148-1 N 10-14 94062, 94148
Caprolactam	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 UJ	< 0.59 UJ	< 0.4 UJ	< 0.45 UJ	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Carbazole	NL	NL	**0.045 J**	**0.042 J**	< 0.43 U	**0.063 J**	**0.098 J**	< 0.4 U	< 0.45 U	< 0.42 U	**0.015 J**	< 0.41 U	< 9 UJ
Diethyl phthalate	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Dimethyl phthalate	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Di-n-butyl phthalate	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Di-n-octyl phthalate	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Hexachlorobutadiene	NL	NL	< 0.074 U	< 0.082 U	< 0.088 U	< 0.083 U	< 0.12 U	< 0.082 U	< 0.091 U	< 0.086 U	< 0.078 U	< 0.083 U	< 1.8 UJ
Hexachlorocyclopentadiene	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 UJ	< 0.39 U	< 0.41 U	< 9 UJ
Hexachloroethane	NL	NL	< 0.036 U	< 0.04 U	< 0.043 U	< 0.041 U	< 0.059 U	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
Isophorone	NL	NL	< 0.15 U	< 0.16 U	< 0.17 U	< 0.17 U	< 0.24 U	< 0.16 U	< 0.18 U	< 0.17 U	< 0.16 U	< 0.16 U	< 3.6 UJ
Nitrobenzene	NL	NL	< 0.036 U	< 0.04 U	< 0.043 U	< 0.041 U	< 0.059 U	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
N-Nitrosodi-n-propylamine	NL	NL	< 0.036 U	< 0.04 U	< 0.043 U	< 0.041 U	< 0.059 U	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
N-Nitrosodiphenylamine	NL	NL	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
4-Methylphenol	0.33	1000	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ
Dibenzofuran	7	1000	**0.16 J**	**0.055 J**	< 0.43 U	**0.063 J**	**0.18 J**	< 0.4 U	< 0.45 U	< 0.42 U	**0.064 J**	< 0.41 U	< 9 UJ
Hexachlorobenzene	0.33	12	< 0.036 U	< 0.04 U	< 0.043 U	< 0.041 U	< 0.059 U	< 0.04 U	< 0.045 U	< 0.042 U	< 0.039 U	< 0.041 U	< 0.9 UJ
Pentachlorophenol	0.8	55	< 0.29 U	< 0.32 U	< 0.35 U	< 0.33 U	< 0.47 U	< 0.32 U	< 0.36 U	< 0.34 U	< 0.31 U	< 0.33 U	< 7.3 UJ
Phenol	0.33	1000	< 0.36 U	< 0.4 U	< 0.43 U	< 0.41 U	< 0.59 U	< 0.4 U	< 0.45 U	< 0.42 U	< 0.39 U	< 0.41 U	< 9 UJ

Notes are on the last page.

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-47 4/30/2015 SB-47 (17-19)_460-94148-2 N 17-19 94062, 94148	SB-47 4/30/2015 SB-47 (45-50)_460-94148-3 N 45-50 94062, 94148	SB-47 4/30/2015 DUP-01_460-94148-4 FD 45-50 94062, 94148
PAH (mg/Kg)					
2-Methylnaphthalene	NL	NL	**0.44 J**	< 0.42 U	< 0.43 U
Acenaphthene	20	1000	**2.6**	< 0.42 U	< 0.43 U
Acenaphthylene	100	1000	**3.3**	< 0.42 U	< 0.43 U
Anthracene	100	1000	**1.5**	< 0.42 U	< 0.43 U
Benzo(a)anthracene	1	11	**0.36**	< 0.042 U	< 0.043 U
Benzo(a)pyrene	1	1.1	**0.29**	< 0.042 U	< 0.043 U
Benzo(b)fluoranthene	1	11	**0.31**	< 0.042 U	< 0.043 U
Benzo(ghi)perylene	100	1000	**0.25 J**	< 0.42 U	< 0.43 U
Benzo(k)fluoranthene	0.8	110	**0.068**	< 0.042 U	< 0.043 U
Chrysene	1	110	**0.37 J**	< 0.42 U	< 0.43 U
Dibenz(a,h)anthracene	0.33	1.1	**0.027 J**	< 0.042 U	< 0.043 U
Fluoranthene	100	1000	**2.7**	< 0.42 U	< 0.43 U
Fluorene	30	1000	**0.6**	< 0.42 U	< 0.43 U
Indeno(1,2,3-cd)pyrene	0.5	11	**0.2**	< 0.042 U	< 0.043 U
Naphthalene	12	1000	**6.7**	< 0.42 U	< 0.43 U
Phenanthrene	100	1000	**2.8**	< 0.42 U	< 0.43 U
Pyrene	100	1000	**2.9**	< 0.42 U	< 0.43 U
Total PAHs	NL	NL	**25.415**	**ND**	**ND**
SVOC (mg/Kg)					
1,1'-Biphenyl	NL	NL	**0.77**	< 0.42 U	< 0.43 U
1,2,4,5-TETRACHLOROBENZENE	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
1,2,4-Trichlorobenzene	NL	NL	NS	NS	NS
1,2-Dichlorobenzene	1.1	1000	NS	NS	NS
1,3-Dichlorobenzene	2.4	560	NS	NS	NS
1,4-Dichlorobenzene	1.8	250	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2,3,4,6-Tetrachlorophenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2,4,5-Trichlorophenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2,4,6-Trichlorophenol	NL	NL	< 0.21 U	< 0.17 U	< 0.17 U
2,4-Dichlorophenol	NL	NL	< 0.21 U	< 0.17 U	< 0.17 U
2,4-Dimethylphenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2,4-Dinitrophenol	NL	NL	< 0.41 U	< 0.34 U	< 0.34 U
2,4-Dinitrotoluene	NL	NL	< 0.1 U	< 0.085 U	< 0.087 U
2,6-Dinitrotoluene	NL	NL	< 0.1 U	< 0.085 U	< 0.087 U
2-Chloronaphthalene	NL	NL	**0.6**	< 0.42 U	< 0.43 U
2-Chlorophenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2-Methylphenol	0.33	1000	< 0.51 U	< 0.42 U	< 0.43 U
2-Nitroaniline	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
2-Nitrophenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
3,3'-Dichlorobenzidine	NL	NL	< 0.21 U	< 0.17 U	< 0.17 U
3-and 4-Methylphenol	0.33	1000	NS	NS	NS
3-Nitroaniline	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4,6-Dinitro-2-methylphenol	NL	NL	< 0.41 U	< 0.34 U	< 0.34 U
4-Bromophenyl phenyl ether	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Chloro-3-methylphenol	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Chloroaniline	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Chlorophenyl phenyl ether	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Nitroaniline	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Nitrophenol	NL	NL	< 1 U	< 0.85 U	< 0.87 U
Acetophenone	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Atrazine	NL	NL	< 0.21 U	< 0.17 U	< 0.17 U
Benzaldehyde	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
bis(2-Chloroethoxy)methane	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
bis(2-Chloroethyl) ether	NL	NL	< 0.051 U	< 0.042 U	< 0.043 U
bis(2-Ethylhexyl) phthalate	NL	NL	**0.021 J**	**0.07 J**	< 0.43 U
Butyl benzyl phthalate	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U

Table 5-7
Summary of Subsurface Soil SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-47 4/30/2015 SB-47 (17-19)_460-94148-2 N 17-19 94062, 94148	SB-47 4/30/2015 SB-47 (45-50)_460-94148-3 N 45-50 94062, 94148	SB-47 4/30/2015 DUP-01_460-94148-4 FD 45-50 94062, 94148
Caprolactam	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Carbazole	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Diethyl phthalate	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Dimethyl phthalate	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Di-n-butyl phthalate	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Di-n-octyl phthalate	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Hexachlorobutadiene	NL	NL	< 0.1 U	< 0.085 U	< 0.087 U
Hexachlorocyclopentadiene	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
Hexachloroethane	NL	NL	< 0.051 U	< 0.042 U	< 0.043 U
Isophorone	NL	NL	< 0.21 U	< 0.17 U	< 0.17 U
Nitrobenzene	NL	NL	< 0.051 U	< 0.042 U	< 0.043 U
N-Nitrosodi-n-propylamine	NL	NL	< 0.051 U	< 0.042 U	< 0.043 U
N-Nitrosodiphenylamine	NL	NL	< 0.51 U	< 0.42 U	< 0.43 U
4-Methylphenol	0.33	1000	**0.095 J**	< 0.42 U	< 0.43 U
Dibenzofuran	7	1000	**0.24 J**	< 0.42 U	< 0.43 U
Hexachlorobenzene	0.33	12	< 0.051 U	< 0.042 U	< 0.043 U
Pentachlorophenol	0.8	55	< 0.41 U	< 0.34 U	< 0.34 U
Phenol	0.33	1000	**0.18 J**	< 0.42 U	< 0.43 U

Notes:
mg/kg - milograms per kilogram
N - primary sample
FD - field duplicate sample
ND - Not Detected
NL - Not Listed
NS - Not Sampled
NYSDEC - New York State Department of Environmental Conservation
Bold indicates compound detected at a concentration greater than the reporting limit
Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value
Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values
Stippled fill indicates sample location was excavated during subsequent activities at the site.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N - (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
NJ - (Organics) The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).
[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-01C 10/20/2009 SB-1(5)102009 N 5-5 AECOM057	SB-01C 11/18/2009 SB-1C(23-25)111809 N 23-25 AECOM062	SB-01C 11/20/2009 SB-1C(80-81.5)112009 N 80-81.5 AECOM062	SB-01C 11/20/2009 SB-1C DUP01(112009) FD 80-81.5 AECOM062	SB-01C 11/23/2009 SB-1C(98-100)112309 N 98-100 AECOM062	SB-02B 10/13/2009 SB-2B(5)101309 N 5-5 AECOM056	SB-02B 10/14/2009 SB-2B(14-16)101409 N 14-16 AECOM057	SB-02B 10/14/2009 SB-2B(37-38)101409 N 37-38 AECOM057	SB-02B 10/14/2009 SB-2B(42-44)101409 N 42-44 AECOM057	SB-03B 9/28/2009 SB-3(4-5)092809 N 4-5 AECOM049	SB-03B 10/20/2009 SB-3(36-38)102009 N 36-38 AECOM058
Metals (mg/Kg)													
Aluminum	NL	NL	**6500**	**2760 J**	**2660 J**	**2910 J**	**14900 J**	**7750**	**7380**	**3700**	**18200**	**6120**	**1880**
Antimony	NL	NL	**2.9 J**	**0.75 J**	< 0.25 UJ	**0.27 J**	**1.3 J**	**0.98 J**	**0.70 J**	**0.45 J**	**1.6 J**	**0.99 J**	**0.66 J**
Arsenic	13	16	**11.9**	**1.2 J**	< 0.26 U	< 0.27 U	**10.5**	**57.9 J**	**2.1**	**1.6**	**3.3**	**4.2**	**10.7**
Barium	350	10000	**73.1**	**10.0 J**	**10.8 J**	**17.8 J**	**40.7**	**455**	**38.3**	**24.9**	**182**	**85.9**	**11.1 J**
Beryllium	7.2	2700	**0.71**	**0.26 J**	**0.14 J**	**0.16 J**	**0.95**	**0.53 J**	**0.44 J**	**0.24 J**	**0.87**	**0.37 J**	**0.19 J**
Cadmium	2.5	60	**0.89**	**0.064 J**	< 0.039 U	< 0.040 U	< 0.047 U	**0.93**	**0.13 J**	**0.66**	**0.37 J**	**0.28 J**	**0.091 J**
Calcium	NL	NL	**5590**	**2030 J**	**592 J**	**773 J**	**4390 J**	**42800**	**1250**	**4840**	**13100**	**16400 J**	**2260**
Chromium	30	6800	**22.8**	**7.3 J**	**4.7 J**	**5.4 J**	**38.5 J**	**26.2**	**16.8**	**12.2**	**44.7**	**15.3 J**	**6.4**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**9.3**	**2.3 J**	**2.9 J**	**3.0 J**	**12.2**	**7.2**	**6.7**	**4.4 J**	**17.7**	**5.9**	**4.0 J**
Copper	50	10000	**131**	**7.6 J**	**7.1 J**	**7.7 J**	**18.1 J**	**212 J**	**14.4**	**12.2**	**34.0**	**52.9 J**	**6.8**
Iron	NL	NL	**28500**	**4630 J**	**6810 J**	**5960 J**	**37800 J**	**8910**	**18300**	**11600**	**35700**	**14000**	**18600**
Lead	63	3900	**75.3**	**2.5**	**2.0**	**2.1**	**12.0**	**302**	**34.4**	**4.2**	**11.2**	**130 J**	**2.7**
Magnesium	NL	NL	**3400**	**1680 J**	**1320 J**	**1420 J**	**7850 J**	**2390**	**1680**	**4540**	**14900**	**2570 J**	**2140**
Manganese	1600	10000	**351**	**77.2 J**	**143 J**	**146 J**	**395 J**	R	**298**	**123**	**593**	**275 J**	**143**
Mercury	0.18	5.7	**0.16**	**0.029 J**	< 0.019 U	< 0.019 U	< 0.023 U	**0.49 J**	**0.23**	< 0.020 U	< 0.022 U	**0.24 J**	< 0.019 U
Nickel	30	10000	**43.8**	**5.5 J**	**5.0**	**5.7**	**22.8**	**26.3**	**9.8**	**8.7**	**37.7**	**13.0 J**	**6.5**
Potassium	NL	NL	**925**	**595 J**	**405 J**	**490 J**	**4370 J**	**1150**	**765**	**1260**	**6830**	**945**	**594**
Selenium	3.9	6800	**0.57 J**	**0.51 J**	< 0.29 UJ	< 0.29 UJ	< 0.35 UJ	< 0.29 UJ	< 0.29 U	**0.75 J**	< 0.33 U	< 0.28 U	**0.59 J**
Silver	2	6800	**0.30 J**	< 0.13 U	< 0.095 U	< 0.097 U	**0.13 J**	**0.41 J**	< 0.098 U	**0.10 J**	< 0.11 U	**0.15 J**	< 0.092 UJ
Sodium	NL	NL	**296 J**	**1350 J**	**105 J**	**138 J**	**1310 J**	**687**	**298 J**	**219 J**	**1940**	**154 J**	**228 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**0.93 J**	< 0.50 U	< 0.37 U	< 0.37 U	**1.4**	< 0.38 U	< 0.38 U	< 0.38 U	< 0.43 U	**0.90 J**	**0.73 J**
Vanadium	NL	NL	**28.0**	**11.3 J**	**6.2 J**	**6.1 J**	**47.4 J**	**24.9**	**26.2**	**18.7**	**54.2**	**23.7 J**	**11.4**
Zinc	109	10000	**402**	**13.9 J**	**14.0 J**	**15.6 J**	**75.8 J**	**365 J**	**33.1**	**24.9**	**84.5**	**227 J**	**14.1**
Cyanide (mg/Kg)													
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.577 U	< 0.78 U	< 0.58 U	< 0.58 U	< 0.70 U	< 0.59 U	< 0.59 UJ	< 0.598 UJ	< 0.672 UJ	< 0.56 U	< 0.557 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-03B 10/21/2009 SB-3(46-48)102109 N 46-48 AECOM058	SB-04 9/24/2009 SB-4(1-2)092409 N 1-2 AECOM050	SB-04C 10/7/2009 SB-4(36-38)100709 N 36-38 AECOM057	SB-04C 10/8/2009 SB-4(44-46)100809 N 44-46 AECOM057	SB-05B 9/28/2009 SB-5(16-18)092809 N 16-18 AECOM049	SB-05B 9/28/2009 SB-5(28-30)092809 N 28-30 AECOM049	SB-05B 9/28/2009 SB-5(52-54)092809 N 52-54 AECOM049	SB-06B 10/14/2009 SB-6(6)101409 N 6-6 AECOM056	SB-06B 10/21/2009 SB-6(16-18)102109 N 16-18 AECOM057	SB-06B 10/21/2009 SB-6(26-28)102109 N 26-28 AECOM057	SB-06B 10/21/2009 SB-6(30-32)102109 N 30-32 AECOM057	SB-07A 10/5/2009 SB-7(6-8)100509 N 6-8 AECOM049
Metals (mg/Kg)														
Aluminum	NL	NL	**16300**	**5930**	**3130**	**10900**	**3680**	**2810**	**22700**	**4860**	**4120**	**2600**	**4690**	**7030**
Antimony	NL	NL	**1.4 J**	**1.6 J**	**0.55 J**	**1.2 J**	**1.4 J**	**0.35 J**	**2.1 J**	**5.6 J**	**4.1 J**	**0.42 J**	**0.98 J**	**3.7 J**
Arsenic	13	16	**3.0**	**13.5**	**0.79 J**	**1.8**	**18**	**0.98 J**	**3.3**	**28.6 J**	**14.9**	**0.30 J**	**2.6**	**20.5**
Barium	350	10000	**158**	**212**	**24.9**	**136**	**41.5**	**7.8 J**	**232**	**234**	**963**	**14.8 J**	**37.3**	**243**
Beryllium	7.2	2700	**0.80**	**0.35 J**	**0.25 J**	**0.60 J**	**0.43 J**	**0.15 J**	**1.0**	**0.48 J**	**0.39 J**	**0.16 J**	**0.32 J**	**0.44 J**
Cadmium	2.5	60	**0.27 J**	< 0.039 U	**0.16 J**	**0.24 J**	**0.19 J**	< 0.041 U	< 0.049 U	**0.80**	< 0.058 U	**0.050 J**	**0.15 J**	< 0.041 U
Calcium	NL	NL	**12700**	**7960**	**5390**	**11300**	**1990 J**	**876 J**	**13100 J**	**3430**	**31200**	**620**	**829**	**33500 J**
Chromium	30	6800	**41.6**	**20.4**	**8.6**	**27.9**	**16.4 J**	**8.5 J**	**53.8 J**	**27.2**	**54.9**	**7.5**	**11.7**	**39.4 J**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**16.8**	**6.1 J**	**4.0 J**	**12.0**	**8.6**	**5.5 J**	**20.8**	**11.1**	**6.4 J**	**2.3 J**	**6.2**	**8.1**
Copper	50	10000	**30.9**	**70.6**	**5.8**	**24.9**	**148 J**	**4.5 J**	**37.6 J**	**234 J**	**78.4**	**5.1**	**10.5**	**91.7 J**
Iron	NL	NL	**33400**	**15400 J**	**10000**	**24000**	**25600**	**4680**	**39400**	**31800**	**79700**	**4740**	**27300**	**67300**
Lead	63	3900	**10.2**	**1650**	**2.8**	**8.4**	**176 J**	**2.1 J**	**11.4 J**	**376**	**1120**	**2.6**	**5.4**	**300 J**
Magnesium	NL	NL	**13800**	**1950**	**4470**	**10300**	**1630 J**	**1530 J**	**16600 J**	**942**	**2020**	**1160**	**2250**	**4140 J**
Manganese	1600	10000	**549**	**125**	**154**	**476**	**97.9 J**	**53.1 J**	**680 J**	R	**1010**	**60.7**	**205**	**455 J**
Mercury	0.18	5.7	< 0.022 U	**0.60 J**	< 0.020 U	< 0.021 U	**1.3 J**	< 0.020 UN	< 0.024 UN	**0.79 J**	**4.9**	< 0.020 U	< 0.019 U	**0.70 J**
Nickel	30	10000	**34.5**	**13.9**	**8.7**	**24.8**	**19.3 J**	**10.9 J**	**46.3 J**	**30.1**	**12.9**	**4.3 J**	**11.4**	**33.8 J**
Potassium	NL	NL	**6220**	**902**	**892**	**3910**	**612 J**	**575 J**	**8660**	**569 J**	**800 J**	**446 J**	**752**	**1000**
Selenium	3.9	6800	< 0.33 U	**2.6 J**	< 0.30 U	< 0.31 U	**4.4**	< 0.30 U	< 0.36 U	**3.2 J**	**2.1 J**	< 0.30 U	< 0.29 U	**1.2**
Silver	2	6800	< 0.11 UJ	**0.18 J**	< 0.10 U	< 0.10 U	**0.35 J**	< 0.10 UJ	< 0.12 UJ	**0.86 J**	**0.80 J**	< 0.099 U	< 0.096 U	**0.51 J**
Sodium	NL	NL	**2310**	**130 J**	**578 J**	**1720**	**603 J**	**336 J**	**1970**	**325 J**	**2030**	**564 J**	**407 J**	**501 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**0.95 J**	**1.7 J**	**0.73 J**	< 0.40 U	**2.6**	< 0.39 U	**3.1**	**3.3**	**4.9**	< 0.38 U	**1.0 J**	**8.6**
Vanadium	NL	NL	**51.8**	**25.2**	**12.7**	**36.5**	**13.8 J**	**10.8 J**	**63.9 J**	**38.8**	**18.6**	**9.2**	**20.4**	**64.3 J**
Zinc	109	10000	**78.4**	**188 J**	**18.9**	**57.5**	**153 J**	**17.4 J**	**95.2 J**	**388 J**	**582**	**13.5**	**21.3**	**696 J**
Cyanide (mg/Kg)														
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.674 U	< 0.57 U	< 0.611 UJ	< 0.62 UJ	< 0.68 U	< 0.61 U	< 0.73 U	< 0.61 U	< 0.855 U	< 0.597 U	< 0.582 U	< 0.61 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-07B 10/27/2009 SB-7(38-40)102709 N 38-40 AECOM058	SB-07B 10/27/2009 SB-7(44-46)102709 N 44-46 AECOM058	SB-08 9/27/2009 SB-8(2-3)092709 N 2-3 AECOM049	SB-08 10/18/2009 SB-8(24-26)101809 N 24-26 AECOM058	SB-09 9/27/2009 SB-9(4-5)092709 N 4-5 AECOM050	SB-09 9/27/2009 SB-9(20-21.5)092709 N 20-21.5 AECOM050	SB-09 9/27/2009 SB-9(36-38)092709 N 36-38 AECOM050	SB-09 9/27/2009 SB-9(40-42)092709 N 40-42 AECOM050	SB-10 9/27/2009 SB-10(3-4)092709 N 3-4 AECOM050	SB-10 9/25/2009 SB-10(16-18)092509 N 16-18 AECOM050	SB-10 9/28/2009 SB-10(40-41.5)100709 N 40-41.5 AECOM050	SB-10 9/27/2009 SB-10(48-50)092709 N 48-50 AECOM050
Metals (mg/Kg)														
Aluminum	NL	NL	**7340**	**12200**	**4840**	**1520**	**3400**	**21300**	**3390**	**24000**	**7660**	**3290**	**2210**	**25400**
Antimony	NL	NL	**0.75 J**	**0.83 J**	**1.9 J**	**5.2 J**	**2.5 J**	**1.9 J**	**0.72**	**1.9 J**	**2.3 J**	**0.45 J**	**0.53 J**	**2.6 J**
Arsenic	13	16	**1.4**	**1.8**	**3.0**	**57.4**	**4.2**	**13.1**	**4.1**	**3.8**	**4.9**	**3.6**	**1.3**	**3.8**
Barium	350	10000	**74.1**	**73.6**	**757**	**33.1**	**613**	**44.7**	**25.8**	**328**	**496**	**9.2 J**	**9.9 J**	**226**
Beryllium	7.2	2700	**0.41 J**	**0.64**	**0.42 J**	**0.58 J**	**0.21 J**	**1.2**	**0.20**	**1.0**	**0.33 J**	**0.10 J**	**0.11 J**	**1.2**
Cadmium	2.5	60	**0.35 J**	**0.19 J**	**0.79**	**1.4**	**1.5**	< 0.066 U	< 0.039 U	< 0.046 U	**0.84**	< 0.040 U	< 0.040 U	< 0.047 U
Calcium	NL	NL	**11700**	**13200**	**70100 J**	**6420**	**41800**	**1960**	**1600**	**8110**	**47900**	**946**	**1010**	**13000**
Chromium	30	6800	**19.5**	**31.7**	**42.2 J**	**7.7**	**17.2**	**44.6**	**11.5**	**56.2**	**29.3**	**7.7**	**6.6**	**57.7**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**8.7**	**14.0**	**5.0 J**	**8.8**	**4.5 J**	**13.5 J**	**12.9**	**21.7 J**	**5.1 J**	**2.4 J**	**2.3 J**	**22.6 J**
Copper	50	10000	**14.2**	**25.0**	**51.9 J**	**66.8**	**50.5**	**12.5**	**21.3**	**34.0**	**61.2**	**12.0**	**4.2**	**41.0**
Iron	NL	NL	**17500**	**27100**	**7640**	**30700**	**10400 J**	**39800 J**	**10000**	**40400 J**	**13700 J**	**4050 J**	**4950 J**	**46200 J**
Lead	63	3900	**12.3**	**8.1**	**289 J**	**334**	**503**	**16.2**	**3.1**	**10.5**	**522**	**5.9**	**2.5**	**13.1**
Magnesium	NL	NL	**8620**	**11900**	**15500 J**	**318 J**	**3620**	**9040**	**1900**	**16400**	**7600**	**1320**	**1150**	**17000**
Manganese	1600	10000	**418**	**500**	**227 J**	**85.9**	**177**	**462**	**98.1**	**638**	**247**	**43.0**	**49.1**	**677**
Mercury	0.18	5.7	< 0.021 U	< 0.021 U	**0.48 J**	**1.2**	**1.9 J**	< 0.033 UN	< 0.019 UN	< 0.022 UN	**2.2 J**	< 0.020 UN	< 0.020 UN	< 0.023 UN
Nickel	30	10000	**16.8**	**26.8**	**41.6 J**	**20.2**	**16.1**	**30.1**	**20.6**	**47.8**	**15.2**	**4.9**	**5.0**	**50.7**
Potassium	NL	NL	**2450**	**4460**	**1280**	**256 J**	**808**	**5110**	**956**	**9820**	**1110**	**576 J**	**453 J**	**9240**
Selenium	3.9	6800	< 0.31 U	< 0.31 U	< 0.35 U	**5.9**	**0.84 J**	**0.78 J**	**0.41**	< 0.33 U	**0.73 J**	**0.34 J**	**0.40 J**	**0.40 J**
Silver	2	6800	< 0.10 UJ	< 0.10 UJ	**0.46 J**	**0.74 J**	**1.2 J**	< 0.16 UJ	< 0.096 UN	**0.12 J**	**0.43 J**	< 0.098 UJ	< 0.097 UJ	< 0.11 UJ
Sodium	NL	NL	**762**	**1860**	**677 J**	**201 J**	**709**	**2890**	**495**	**2350**	**1300**	**325 J**	**335 J**	**1660**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	< 0.40 U	**0.66 J**	**0.52 J**	**3.8**	**1.2 J**	**4.8 J**	**1.1**	**3.2 J**	**1.2 J**	**0.60 J**	**0.39 J**	**4.0 J**
Vanadium	NL	NL	**26.3**	**41.8**	**18.6 J**	**12.8**	**16.9**	**54.1**	**25.6**	**68.9**	**20.3**	**7.4**	**7.8**	**66.4**
Zinc	109	10000	**40.7**	**62.0**	**563 J**	**179**	**529 J**	**89.7 J**	**20.4**	**96.6 J**	**422 J**	**16.3 J**	**12.9 J**	**102 J**
Cyanide (mg/Kg)														
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.617 U	< 0.631 U	< 0.71 U	**0.75**	< 3.07 U	< 0.98 U	< 0.58 U	< 0.68 U	< 0.69 U	< 0.59 U	< 0.58 U	< 0.69 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-11 10/6/2009 SB-11(16-18)100609 N 16-18 AECOM056	SB-11 10/6/2009 SB-11(32-32.5)100609 N 32-32.5 AECOM056	SB-11 10/6/2009 SB-11(54-56)100609 N 54-56 AECOM056	SB-12A 9/25/2009 SB-12(4-5)092509 N 4-5 AECOM050	SB-12A 10/1/2009 SB-12(10-12.2)100109 N 10-12.2 AECOM056	SB-12B 11/3/2009 SB-12B(40-42)110309 N 40-42 AECOM057	SB-12B 11/3/2009 SB-12B(48-50)110309 N 48-50 AECOM057	SB-13 9/27/2009 SB-13(0-1)092709 N 0-1 AECOM056	SB-13 9/28/2009 SB-13(12-14)092809 N 12-14 AECOM056	SB-13 9/27/2009 SB-13(18-24)092709 N 18-24 AECOM050	SB-14A 9/27/2009 SB-14(1-2)092709 N 1-2 AECOM050
Metals (mg/Kg)													
Aluminum	NL	NL	**5240**	**2470**	**31600**	**5930**	**8250**	**7240**	**8720**	**4330**	**4480**	**2350**	**4240**
Antimony	NL	NL	**1.8 J**	**0.46 J**	**2.7 J**	**16.7 J**	**4.7 J**	**0.84 J**	**0.86 J**	**2.0 J**	**5.0 J**	**39.7 J**	**2.2 J**
Arsenic	13	16	**6.9 J**	**1.8 J**	**3.2 J**	**10.6**	**30.0 J**	**0.62 J**	**1.7**	**4.7 J**	**7.2 J**	**37.6**	**3.6**
Barium	350	10000	**39.7**	**12.2 J**	**324**	**474**	**401**	**60.1**	**94.3**	**641**	**93.7**	**102**	**182**
Beryllium	7.2	2700	**0.31 J**	**0.13 J**	**1.3**	**0.38 J**	**0.53 J**	**0.41 J**	**0.47 J**	**0.31 J**	**0.44 J**	**0.31 J**	**0.23 J**
Cadmium	2.5	60	< 0.041 U	< 0.039 U	< 0.049 U	**0.41 J**	**2.1**	**0.26 J**	**0.29 J**	**1.9**	**0.29 J**	**3.2**	**0.41 J**
Calcium	NL	NL	**10100**	**1150**	**7020**	**8180**	**10200**	**9190**	**11600**	**62200**	**30200**	**43000**	**39000**
Chromium	30	6800	**12.5**	**6.6**	**77.3**	**19.1**	**27.5**	**18.5**	**23.4**	**27.5**	**18.3**	**5.7**	**16.8**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**10.5**	**3.6 J**	**28.7**	**6.8 J**	**12.4**	**8.8**	**9.8**	**6.0 J**	**4.3 J**	**2.4 J**	**3.2 J**
Copper	50	10000	**38.0 J**	**4.1 J**	**44.7 J**	**149**	**301 J**	**15.9**	**20.0**	**53.3 J**	**85.4 J**	**102**	**48.6**
Iron	NL	NL	**44600**	**7770**	**55200**	**22500 J**	**33000**	**20400**	**20700**	**22200**	**17400**	**7130 J**	**9720 J**
Lead	63	3900	**88.5**	**1.8 J**	**13.9**	**5690**	**720**	**5.6**	**6.4**	**533**	**219**	**333**	**212**
Magnesium	NL	NL	**1710**	**1530**	**20200**	**1920**	**2540**	**8100**	**9170**	**6290**	**5810**	**22400**	**3750**
Manganese	1600	10000	R	R	R	**293**	R	**476**	**366**	R	R	**102**	**112**
Mercury	0.18	5.7	**0.17 J**	< 0.019 UN	< 0.024 UN	**1.4 J**	**1.7 J**	< 0.020 U	< 0.021 U	**0.73 J**	**4.8 J**	**1.9 J**	**0.76 J**
Nickel	30	10000	**19.9**	**5.8**	**65.1**	**14.6**	**25.8**	**16.8**	**19.4**	**16.2**	**11.1**	**7.9**	**9.9**
Potassium	NL	NL	**869**	**569 J**	**13500**	**898**	**1210**	**2570**	**3200**	**1500**	**685 J**	**649**	**1090**
Selenium	3.9	6800	**2.9 J**	< 0.29 UJ	< 0.36 UJ	**1.1 J**	**3.0 J**	< 0.30 U	< 0.32 U	**0.55 J**	**1.3 J**	**3.3 J**	**0.77 J**
Silver	2	6800	**0.17 J**	< 0.096 UJ	< 0.12 UJ	**0.68 J**	**1.2 J**	< 0.099 U	< 0.11 U	**0.91 J**	**0.25 J**	**0.31 J**	**0.46 J**
Sodium	NL	NL	**253 J**	**198 J**	**2160**	**156 J**	**217 J**	**980**	**1580**	**722**	**532 J**	**282 J**	**552 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**4.4**	< 0.37 U	**2.9**	**2.6 J**	**2.3**	< 0.38 U	< 0.41 U	**0.84 J**	**0.85 J**	**1.2 J**	**0.80 J**
Vanadium	NL	NL	**22.9**	**9.0**	**89.1**	**23.7**	**30.5**	**26.4**	**32.4**	**18.0**	**21.2**	**6.9**	**15.3**
Zinc	109	10000	**133 J**	**15.8 J**	**127 J**	**606 J**	**1140 J**	**41.5**	**47.7**	**563 J**	**133 J**	**773 J**	**234 J**
Cyanide (mg/Kg)													
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.60 U	< 0.58 U	< 0.72 U	< 0.57 U	< 0.72 U	< 0.595 U	< 0.639 U	< 0.64 U	**1.91**	**12.4**	< 0.66 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-14B 9/27/2009 SB-14B(11-13)092709 N 11-13 AECOM050	SB-14B 10/17/2009 SB-14B(20-22)101709 N 20-22 AECOM057	SB-14B 10/17/2009 SB-14B(38-40)101709 N 38-40 AECOM057	SB-14B 10/17/2009 SB-14B(54-56)101709 N 54-56 AECOM057	SB-15 9/23/2009 SB-15(3-4)092309 N 3-4 AECOM050	SB-15 9/30/2009 SB-15(12-14)093009 N 12-14 AECOM056	SB-15 9/30/2009 SB-15(38-40)093009 N 38-40 AECOM056	SB-15 9/30/2009 SB-15(42-44)093009 N 42-44 AECOM056	SB-16A 9/24/2009 SB-16(2-3)092409 N 2-3 AECOM050	SB-16B 10/19/2009 SB-16B(30-32)101909 N 30-32 AECOM057	SB-16B 10/19/2009 SB-16B(44-46)101909 N 44-46 AECOM057
Metals (mg/Kg)													
Aluminum	NL	NL	**3070**	**10500 J**	**1880**	**4980**	**6350**	**1620**	**8270**	**15600**	**6280**	**3860**	**14900**
Antimony	NL	NL	**0.66 J**	< 0.60 UJ	**0.25 J**	**0.82 J**	**6.4 J**	**1.1 J**	**0.86 J**	**1.3 J**	**4.3 J**	**0.54 J**	**1.5 J**
Arsenic	13	16	**0.89 J**	**9.0 J**	**1.0 J**	**1.1 J**	**14.3**	**6.1 J**	**1.4 J**	**2.3 J**	**14.2**	**1.3**	**2.5**
Barium	350	10000	**12.7 J**	**35.3 J**	**13.7 J**	**32.1**	**359**	**51.6**	**75.4**	**157**	**269**	**21.7 J**	**155**
Beryllium	7.2	2700	**0.13 J**	**0.51 J**	**0.14 J**	**0.31 J**	**0.68**	**0.16 J**	**0.45 J**	**0.75**	**0.47 J**	**0.24 J**	**0.73**
Cadmium	2.5	60	< 0.039 U	**0.28 J**	**0.049 J**	**0.089 J**	**0.91**	< 0.043 U	< 0.041 U	< 0.046 U	< 0.039 U	**0.12 J**	**0.37 J**
Calcium	NL	NL	**2540**	**4590 J**	**708**	**2900**	**59700**	**1110**	**9590**	**11800**	**23900**	**4920**	**12200**
Chromium	30	6800	**8.4**	**23.6 J**	**6.7**	**12.6**	**26.1**	**7.9**	**22.8**	**39.1**	**25.7**	**11.3**	**37.9**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**3.3 J**	**6.5 J**	**2.2 J**	**5.5 J**	**7.6 J**	**4.3 J**	**9.3**	**16.1**	**8.4 J**	**4.8 J**	**15.1**
Copper	50	10000	**4.6**	**8.1 J**	**3.9**	**15.1**	**139**	**81.6 J**	**16.7 J**	**29.2 J**	**142**	**8.6**	**28.6**
Iron	NL	NL	**5100 J**	**14200 J**	**5540**	**22500**	**37700 J**	**15800**	**18600**	**30900**	**51200 J**	**11000**	**30400**
Lead	63	3900	**4.2**	**14.0 J**	**1.7**	**4.8**	**846**	**393**	**5.9**	**9.3**	**350**	**3.0**	**9.4**
Magnesium	NL	NL	**1420**	**4160 J**	**1020**	**2720**	**4840**	**296 J**	**8640**	**13300**	**3740**	**4580**	**12900**
Manganese	1600	10000	**54.4**	**146 J**	**56.4**	**266**	**374**	R	R	R	**344**	**191**	**519**
Mercury	0.18	5.7	< 0.019 UN	< 0.047 UJ	< 0.019 U	< 0.019 U	**1.4 J**	**0.069 J**	< 0.020 UN	< 0.022 UN	**0.43 J**	< 0.020 U	< 0.021 U
Nickel	30	10000	**7.2**	**15.4 J**	**4.6 J**	**10.9**	**47.1**	**11.7**	**18.1**	**32.3**	**31.0**	**9.6**	**31.6**
Potassium	NL	NL	**569 J**	**2440 J**	**403 J**	**881**	**1160**	**188 J**	**2910**	**5820**	**909**	**1300**	**5680**
Selenium	3.9	6800	**0.43 J**	**1.2 J**	< 0.29 U	< 0.28 U	**2.0 J**	**16.7 J**	< 0.30 UJ	< 0.33 UJ	**1.3 J**	< 0.30 U	< 0.31 U
Silver	2	6800	< 0.096 UJ	< 0.23 UJ	< 0.095 U	**0.10 J**	**0.73 J**	**0.13 J**	< 0.10 UJ	< 0.11 UJ	**0.67 J**	< 0.099 U	< 0.10 U
Sodium	NL	NL	**215 J**	**3430 J**	**286 J**	**165 J**	**395 J**	**153 J**	**530 J**	**1630**	**253 J**	**223 J**	**1780**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**0.50 J**	< 0.90 UJ	< 0.37 U	**0.78 J**	**4.7 J**	**0.98 J**	< 0.39 U	**1.1 J**	**6.8 J**	< 0.38 U	< 0.40 U
Vanadium	NL	NL	**9.4**	**42.4 J**	**11.4**	**25.3**	**20.5**	**11.1**	**34.7**	**49.5**	**50.3**	**18.4**	**46.8**
Zinc	109	10000	**16.8 J**	**33.4 J**	**12.9**	**21.6**	**878 J**	**40.1 J**	**48.1 J**	**75.1 J**	**3370 J**	**27.0**	**71.3**
Cyanide (mg/Kg)													
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.58 U	< 1.4 UJ	< 0.575 U	< 0.562 U	< 0.64 U	< 0.64 U	< 0.61 U	< 0.67 U	< 0.57 U	< 0.599 U	< 0.627 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-17 9/25/2009 SB-17(1-2)092509 N 1-2 AECOM049	SB-17 10/22/2009 SB-17(16-18)102209 N 16-18 AECOM058	SB-17 10/22/2009 SB-17(36-38)102209 N 36-38 AECOM058	SB-17 10/22/2009 SB-17(40-42)102209 N 40-42 AECOM058	SB-18 9/25/2009 SB-18(4-5)092509 N 4-5 AECOM050	SB-18 10/1/2009 SB-18(12-14)100109 N 12-14 AECOM056	SB-18 10/2/2009 SB-18(38-40)100209 N 38-40 AECOM056	SB-18 10/2/2009 SB-18(42-44)100209 N 42-44 AECOM056	TP-01 10/8/2009 TP-1(9)100809 N 9-9 AECOM056	TP-01 10/8/2009 TP-1(12)100809 N 12-12 AECOM057	TP-01 10/8/2009 DUP-3-100809 FD 12-12 AECOM056	TP-02 10/6/2009 TP-2(8.5)100609 N 8.5-8.5 AECOM056
Metals (mg/Kg)														
Aluminum	NL	NL	**5850**	**1840**	**3340**	**7100**	**4370**	**1890**	**6870**	**11700**	**4240**	**6240**	**4630**	**7770**
Antimony	NL	NL	**5.0 J**	**0.83 J**	**0.31 J**	**0.76 J**	**3.2 J**	**0.48 J**	**0.72 J**	**1.0 J**	**4.7 J**	**2.6 J**	**2.2 J**	**1.3 J**
Arsenic	13	16	**24.5**	**6.1**	**0.79 J**	**0.89 J**	**8.9**	**4.7 J**	**0.85 J**	**1.6 J**	**29.1 J**	**5.3**	**3.8 J**	**6.0 J**
Barium	350	10000	**271**	**44.1**	**16.3 J**	**69.7**	**377**	**28.1**	**58.8**	**101**	**169**	**316 J**	**214 J**	**111**
Beryllium	7.2	2700	**0.60**	**0.16 J**	**0.20 J**	**0.41 J**	**0.36 J**	**0.20 J**	**0.36 J**	**0.59 J**	**0.47 J**	**0.42 J**	**0.29 J**	**0.43 J**
Cadmium	2.5	60	< 0.037 U	**0.29 J**	**0.065 J**	**0.18 J**	**2.0**	**0.28 J**	< 0.041 U	**0.082 J**	**0.97**	**0.46 J**	**0.20 J**	**0.44 J**
Calcium	NL	NL	**8580 J**	**7540**	**3710**	**10800**	**35000**	**7210**	**10700**	**12400**	**8200**	**6970**	**5500**	**13300**
Chromium	30	6800	**39.9 J**	**4.6**	**18.0**	**19.1**	**25.6**	**5.3**	**17.6**	**29.5**	**20.3**	**15.2**	**11.3**	**17.5**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**11.0**	**3.6 J**	**4.8 J**	**8.7**	**7.4 J**	**7.7**	**8.5**	**12.9**	**5.7 J**	**5.5 J**	**4.8 J**	**7.1**
Copper	50	10000	**253 J**	**31.5**	**7.7**	**14.2**	**107**	**112 J**	**13.7 J**	**23.3 J**	**209 J**	**57.0**	**55.5 J**	**34.5 J**
Iron	NL	NL	**63200**	**5630**	**9860**	**17400**	**32700 J**	**7810**	**18100**	**24500**	**18700**	**12300**	**10600**	**16100**
Lead	63	3900	**631 J**	**161**	**2.9**	**5.1**	**396**	**29.0**	**4.7**	**8.1**	**352**	**195**	**142**	**475**
Magnesium	NL	NL	**2550 J**	**791**	**5160**	**8200**	**3730**	**954**	**8200**	**11100**	**1490**	**2530**	**2330**	**3530**
Manganese	1600	10000	**372 J**	**70.1**	**217**	**372**	**253**	R	R	R	R	**147**	R	R
Mercury	0.18	5.7	**1.3 J**	**0.17**	< 0.019 U	< 0.020 U	**0.96 J**	**0.15 J**	< 0.020 UN	< 0.021 UN	**0.74 J**	**0.46 J**	**0.23 J**	**1.6 J**
Nickel	30	10000	**42.1 J**	**9.4**	**20.8**	**17.0**	**21.2**	**14.3**	**15.9**	**24.7**	**18.3**	**13.3**	**11.5**	**21.4**
Potassium	NL	NL	**1120**	**274 J**	**886**	**2540**	**736**	**443 J**	**2310**	**4140**	**664**	**992**	**871**	**1010**
Selenium	3.9	6800	**0.93**	**1.1 J**	< 0.28 U	< 0.30 U	**1.0 J**	**0.47 J**	< 0.30 UJ	< 0.31 UJ	**1.6 J**	**0.33 J**	< 0.30 UJ	**0.42 J**
Silver	2	6800	**0.81 J**	**0.12 J**	< 0.095 UJ	< 0.10 UJ	**0.73 J**	**0.13 J**	< 0.10 UJ	< 0.10 UJ	**1.7 J**	**0.21 J**	< 0.099 UJ	**5.4 J**
Sodium	NL	NL	**183 J**	**149 J**	**263 J**	**945**	**288 J**	**138 J**	**733**	**1400**	**250 J**	**132 J**	**128 J**	**142 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**8.6**	< 0.40 U	< 0.37 U	< 0.39 U	**3.8 J**	< 0.42 U	**0.87 J**	**0.95 J**	**1.6**	< 0.40 U	< 0.38 U	**0.89 J**
Vanadium	NL	NL	**100 J**	**6.3**	**15.3**	**27.3**	**22.6**	**11.5**	**25.3**	**40.0**	**27.0**	**21.8**	**17.0**	**23.9**
Zinc	109	10000	**714 J**	**106**	**20.6**	**40.0**	**2700 J**	**66.1 J**	**37.3 J**	**60.2 J**	**385 J**	**282 J**	**170 J**	**159 J**
Cyanide (mg/Kg)														
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	< 0.54 U	< 0.62 U	< 0.571 U	< 0.609 U	< 2.97 U	< 0.66 U	< 0.60 U	< 0.62 U	< 0.62 U	< 0.629 U	< 0.60 U	< 0.60 U
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	TP-03 10/7/2009 TP-3(7.0)100709 N 7-7 AECOM050	TP-03 10/7/2009 DUP-2-100709 FD 7-7 AECOM050	TP-03 10/7/2009 TP-3(7.5)100709 N 7.5-7.5 AECOM050	SB-16C 10/22/2011 SB-16C(92.5-95)102211 N 92.5-95 460328301	SB-16C 10/22/2011 SB-16C(102.5-105)102211 N 102.5-105 460328301	SB-19 10/30/2011 SB-19(2-5)103011 N 2-5 460330951	SB-19 11/6/2011 SB-19(70-75)110611 N 70-75 460334711	SB-19 11/6/2011 SB-19(85-87.5)110611 N 85-87.5 460334711	SB-20 9/24/2011 SB-20(1-2)092411 N 1-2 460316291	SB-20 9/25/2011 SB-20(72.5-75)092511 N 72.5-75 460316291	SB-20 9/25/2011 SB-20(108-110)092511 N 108-110 460316291
Metals (mg/Kg)													
Aluminum	NL	NL	**4470 J**	**7140 J**	**6660**	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	NL	NL	**2.1 J**	**2.2 J**	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	13	16	**7.3**	**7.1**	**6.0**	**3.5**	**5.4**	**68.8**	**1.0 J**	**2.5**	**16.5**	**5.7**	**6.9**
Barium	350	10000	**92.7**	**127**	**95.4**	**14.7 J**	**27.1 J**	**172**	**25.5 J**	**9.0 J**	NS	NS	NS
Beryllium	7.2	2700	**0.38 J**	**0.51 J**	**0.73**	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	2.5	60	**0.14 J**	< 0.040 U	< 0.043 U	< 1.0 U	< 1.2 U	**3.9**	< 1.2 U	< 1.1 U	NS	NS	NS
Calcium	NL	NL	**5790 J**	**3820 J**	**5790**	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	30	6800	**12.6 J**	**20.5 J**	**19.7**	**12.6**	**16.5**	**24.1**	**24.7**	**10.1**	NS	NS	NS
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**5.8 J**	**7.7 J**	**8.0 J**	NS	NS	NS	NS	NS	NS	NS	NS
Copper	50	10000	**141**	**109**	**91.5**	NS	NS	NS	NS	NS	NS	NS	NS
Iron	NL	NL	**17100 J**	**26300 J**	**34800 J**	NS	NS	NS	NS	NS	NS	NS	NS
Lead	63	3900	**199**	**280**	**218**	**4.0**	**7.7**	**451**	**4.7**	**1.9**	**260**	**2.0**	**12.3**
Magnesium	NL	NL	**3400 J**	**2370 J**	**2440**	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	1600	10000	**323**	**339**	**324**	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.18	5.7	**0.26 J**	**0.34 J**	**0.42 J**	< 0.035 U	< 0.040 U	< 0.045 U	< 0.038 U	< 0.034 U	**0.40**	< 0.039 U	< 0.040 U
Nickel	30	10000	**11.7**	**17.5**	**15.9**	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NL	NL	**671**	**817**	**754**	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	3.9	6800	**0.86 J**	**0.94 J**	**0.94 J**	< 2.1 U	< 2.4 U	**9.0**	< 2.3 U	< 2.3 U	NS	NS	NS
Silver	2	6800	**0.27 J**	**0.26 J**	**0.24 J**	< 2.1 U	< 2.4 U	**0.50 J**	< 2.3 U	< 2.3 U	NS	NS	NS
Sodium	NL	NL	**148 J**	**111 J**	**110 J**	NS	NS	NS	NS	NS	NS	NS	NS
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	**2.0 J**	**3.1 J**	**4.5 J**	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NL	NL	**22.0**	**29.1**	**29.2**	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	109	10000	**338 J**	**298 J**	**350 J**	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide (mg/Kg)													
Available cyanide	NL	NL	NS	NS	NS	**0.093**	< 0.050 U	**0.055**	< 0.049 U	< 0.048 U	NS	NS	NS
Cyanide, Free	NL	NL	< 0.57 U	< 0.59 U	< 0.63 U	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	**0.80**	< 0.59 U	< 0.66 U

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRE-STRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-21 9/22/2011 SB-21(0-5)092211 N 0-5 460315781	SB-22 9/19/2011 SB-22(0-5)091911 N 0-5 460315781	SB-22 10/20/2011 SB-22 (84-85) N 84-85 460327321	SB-22 10/20/2011 SB-22 (107.5-110) N 107.5-110 460327321	SB-23 9/27/2011 SB-23(89-90)092711 N 89-90 460316541	SB-23 9/27/2011 SB-23(90-92.5)092711 N 90-92.5 460316541	SB-24 10/25/2011 SB-24(98.5-99)102511 N 98.5-99 460328301	SB-24 10/25/2011 SB-24(108-110)102511 N 108-110 460328301	SB-29 9/23/2011 SB-29(0-5)092311 N 0-5 460315781	SB-29 9/23/2011 SB-29(98)092311 N 98-98 460315781	SB-29 9/23/2011 SB-29(98-100)092311 N 98-100 460315781	SB-30 10/23/2011 SB-30(3-5)102311 N 3-5 460330951
Metals (mg/Kg)														
Aluminum	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	13	16	**6.6**	**31.6**	< 1.1 U	**8.4**	**2.3**	**10.9**	**4.2**	**10.3**	**4.5**	**10.9**	**2.1**	**21.3**
Barium	350	10000	NS	NS	**20.3 J**	**50.4**	NS	NS	**20.9 J**	**46.7 J**	NS	NS	NS	**125**
Beryllium	7.2	2700	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	2.5	60	NS	NS	< 1.1 U	< 1.1 U	NS	NS	< 1.1 U	< 1.2 U	NS	NS	NS	< 1.1 U
Calcium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	30	6800	NS	NS	**8.4**	**22.0**	NS	NS	**10.7**	**26.3**	NS	NS	NS	**13.5**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	50	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	63	3900	**329**	**576**	**2.4**	**11.0**	**2.6**	**12.1**	**1.8**	**10.4**	**274**	**8.3**	**10.0**	**269**
Magnesium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	1600	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.18	5.7	< 0.042 U	**9.2**	< 0.036 U	< 0.037 U	< 0.039 U	< 0.041 U	< 0.033 U	< 0.042 U	< 0.037 U	< 0.057 U	< 0.040 U	**1.2**
Nickel	30	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	3.9	6800	NS	NS	< 2.2 U	< 2.3 U	NS	NS	< 2.2 U	**1.2 J**	NS	NS	NS	**1.0 J**
Silver	2	6800	NS	NS	< 2.2 U	< 2.3 U	NS	NS	< 2.2 U	< 2.4 U	NS	NS	NS	**0.56 J**
Sodium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	109	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide (mg/Kg)														
Available cyanide	NL	NL	NS	NS	< 0.045 U	**0.15**	NS	NS	< 0.044 U	**0.11**	NS	NS	NS	< 0.047 U
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	**0.27 J**	**0.44 J**	< 0.57 U	NS	< 0.60 U	< 0.68 U	NS	NS	**0.16 J**	< 0.97 U	< 0.61 U	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID			SB-30	SB-30	SB-30	TP-04	TP-04	TP-2B	TP-2B	TP-08	TP-12	TP-12A	TP-16	TP-17		T1-SB7	T1-SB7	T1-SB8
Sample Date			10/29/2011	10/29/2011	10/29/2011	9/9/2011	9/9/2011	9/9/2011	9/9/2011	9/1/2011	9/7/2011	9/8/2011	9/2/2011	9/7/2011		5/21/2014	5/21/2014	5/21/2014
Sample ID			SB-30(78-79)102911	DUP-1-102911	SB-30(92-94)102911	TP-4(3-4)	TP-4(7-7.5)	TP-2B-1(7-7.5)	TB-2B-2(7-7.5)	TP-8(6.4-6.7)	TP-12(4-5)	TP-12A (4-5)	TP-16(5-6)	TP-17(6-6.67)		T1-SB7 (16.5-17.5)	T1-SB7 (22-23)	T1-SB8 (17-18.5)
Sample Type			N	FD	N	N	N	N	N	N	N	N	N	N		N	N	N
Depth Interval			78-79	78-79	92-94	3-4	7-7.5	7-7.5	7-7.5	6.4-6.7	4-5	4-5	5-6	6-6.67		16.5-17.5	22-23	17-18.5
SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	460330951	460330951	460330951	K1658	K1658	K1658	K1658	K1658	K1658	K1658	K1658	K1658		MC30823	MC30823	MC30823
Metals (mg/Kg)																		
Aluminum	NL	NL	NS	NS	NS	**4960**	**6620**	**8560**	**7790**	**1880**	**5160**	**5970**	**2820**	**4980**		**3710**	**2170**	**4660**
Antimony	NL	NL	NS	NS	NS	< 2.8 U	**31.0**	**1.4**	**1.0**	**1.0**	**1.3**	**0.54 B**	**5.5**	**4.3**		**5.8 J**	< 1.1 UJ	**2.0 J**
Arsenic	13	16	**2.9**	**1.8**	**17.5**	**23.9**	**25.3**	**6.8**	**7.5**	**8.2**	**15.3**	**4.5**	**30.8**	**24.7**		**38.1**	**3.9**	**28.3**
Barium	350	10000	**14.1 J**	**11.4 J**	**51.1 J**	**174**	**388**	**122**	**166**	**83.8**	**185**	**69.5**	**72.4**	**365**		**187 J**	< 5.6 U	**86.9 J**
Beryllium	7.2	2700	NS	NS	NS	**0.37**	**0.31 J**	**0.39**	**0.39**	**0.23 B**	**0.33**	**0.33**	**0.24 B**	**0.38**		< 0.53 U	< 0.45 U	< 0.53 U
Cadmium	2.5	60	< 1.1 U	< 1.1 U	< 1.3 U	**3.7**	**1.0**	< 0.27 U	**0.077 B**	**0.34**	**0.67**	**0.16 B**	**1.8**	**5.4**		**2.8**	< 0.45 U	**1.6**
Calcium	NL	NL	NS	NS	NS	**2160**	**10700**	**3800**	**3630**	**3190**	**4410**	**3220**	**3900**	**14300**		**5500 J**	**637 J**	**8310 J**
Chromium	30	6800	**13.4**	**10.5**	**20.4**	**21.5**	**34.5**	**20.4**	**19.9**	**6.5**	**20.8**	**13.2**	**5.4**	**51.9**		**56.5**	**5.3**	**25.5**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	< 4.8 U	< 4.4 U	< 4.3 U	< 5.6 U	< 4.2 U		NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
Cobalt	NL	NL	NS	NS	NS	**10.3**	**3.9**	**6.6**	**6.1**	**3.8**	**5.5**	**5.9**	**2.4 B**	**8.3**		< 6.6 U	< 5.6 U	< 6.6 U
Copper	50	10000	NS	NS	NS	**225**	**286**	**63.1**	**64.9**	**114**	**220**	**30.5**	**105**	**481**		**951**	**3.0**	**424**
Iron	NL	NL	NS	NS	NS	**33700**	**19000**	**23800**	**19300**	**8170**	**33200**	**18200**	**4760**	**75700**		**25400 J**	**6890 J**	**78400 J**
Lead	63	3900	**2.2**	**1.7**	**14.7**	**467**	**1530**	**181**	**202**	**144**	**269**	**69.7**	**231**	**769**		**840**	**1.4**	**318**
Magnesium	NL	NL	NS	NS	NS	**1320**	**2030**	**2740**	**2300**	**1610**	**2190**	**1780**	**654**	**2230**		**1830**	**1010**	**2930**
Manganese	1600	10000	NS	NS	NS	**262**	**196**	**266**	**225**	**76.7**	**362**	**488**	**45.9**	**564**		**253**	**69.3**	**727**
Mercury	0.18	5.7	< 0.037 U	< 0.034 U	< 0.047 U	**0.65 J**	**1.5 J**	**0.43 N**	**2.8 N**	**0.16 N**	**0.77 N**	**0.67 N**	**0.77 N**	**1.5 N**		**1.6**	< 0.041 U	**0.94**
Nickel	30	10000	NS	NS	NS	**25.3**	**17.2**	**28.8**	**22.2**	**14.3**	**20.7**	**12.5**	**6.0**	**49.6**		**92.8**	< 4.5 U	**35.0**
Potassium	NL	NL	NS	NS	NS	**600**	**914**	**946**	**745**	**272**	**734**	**776**	**242**	**581**		< 660 U	< 560 U	**827**
Selenium	3.9	6800	< 2.2 U	< 2.2 U	< 2.7 U	< 1.3 U	**0.88 J**	< 1.6 U	< 1.2 U	< 1.5 U	< 1.4 U	< 1.3 U	**7.2**	< 1.0 U		**4.5**	< 1.1 U	< 1.3 U
Silver	2	6800	< 2.2 U	< 2.2 U	**0.24 J**	< 1.3 U	**0.20 J**	< 1.6 U	< 1.2 U	< 1.5 U	< 1.4 U	< 1.3 U	**0.075 B**	< 1.0 U		**2.8**	< 0.56 U	< 0.66 U
Sodium	NL	NL	NS	NS	NS	**75.8**	**453**	**95.0**	**109**	**115**	**109**	**61.5**	**194**	**196**		**792**	**651**	**983**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	**304**	NS	NS	**5030**	NS		NS	NS	NS
Thallium	NL	NL	NS	NS	NS	**0.51 J**	< 1.3 U	**0.51 B**	**0.39 B**	< 1.0 U	**0.45 B**	**0.45 B**	**10.3**	< 0.69 U		< 1.3 U	< 1.1 U	< 1.3 U
Vanadium	NL	NL	NS	NS	NS	**28.0**	**21.0**	**29.2**	**30.5**	**12.0**	**33.8**	**22.0**	**5.2**	**68.8**		**16.7**	**6.8**	**23.8**
Zinc	109	10000	NS	NS	NS	**1040**	**620**	**249**	**179**	**266**	**544**	**198**	**261**	**1500**		**840 J**	**12.2 J**	**569 J**
Cyanide (mg/Kg)																		
Available cyanide	NL	NL	< 0.044 U	< 0.045 U	< 0.057 U	**0.492 J**	**0.853 J**	**0.461 J**	**0.525 J**	NS	NS	NS	NS	NS		NS	NS	NS
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	< 0.93 U	**0.68 B**	< 0.65 U	**27.5**	**2.3**		NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	T1-SB8 5/21/2014 T1-SB8 (23-24) N 23-24 MC30823	T1-SB9 5/21/2014 T1-SB9 (15-18) N 15-18 MC30823	T1-SB9 5/21/2014 T1-SB9 (18-20) N 18-20 MC30823	T1-SB9 5/21/2014 DUP-5/21/14 FD 18-20 MC30823	T2-SB1 5/20/2014 T2-SB1 (15-20) N 15-20 MC30767	T2-SB1 5/20/2014 T2-SB1 (21-22) N 21-22 MC30767	T2-SB4 5/20/2014 T2-SB4 (5-10) N 5-10 MC30823	T5-SB2 10/15/2014 T5-SB2(18-19)101514 N 18-19 MC34374	T5-SB2 10/15/2014 T5-SB2(21.5-25)101514 N 21.5-25 MC34374	T5-SB7 10/13/2014 T5-SB7 (10-11)101314 N 10-11 MC34323	T5-SB7 10/13/2014 T5-SB7 (11.5-15)101314 N 11.5-15 MC34323	SB-40 4/1/2015 SB40 (9-10)_460-92568-1 N 9-10 92355, 92511, 92568
Metals (mg/Kg)														
Aluminum	NL	NL	**16600**	**5820**	**19500**	**20200**	**5130**	**11700**	**4720**	**10800**	**16700**	**4410**	**18700**	**9550**
Antimony	NL	NL	< 1.3 UJ	< 1.1 UJ	< 1.7 UJ	< 1.5 UJ	**2.5 J**	< 1.4 UJ	< 0.93 UJ	**2.0**	< 1.6 U	< 1.1 U	< 1.4 U	< 3.9 UJ
Arsenic	13	16	**12.2**	**6.0**	**8.8**	**9.0**	**14.5**	**8.7**	**10**	**30.8**	**10.6**	**20.9**	**8.8**	**2.9**
Barium	350	10000	**34.7 J**	**182 J**	**38.4 J**	**41.3 J**	**135 J**	**29.3 J**	**117 J**	**100**	**35.1**	**99.3**	**36.4**	**45.8**
Beryllium	7.2	2700	**0.92**	< 0.42 U	**1.1**	**1.0**	**0.41**	**1.1**	< 0.37 U	**0.55**	**0.85**	< 0.45 U	**1.0**	< 0.39 U
Cadmium	2.5	60	< 0.54 U	**0.61**	< 0.68 U	< 0.61 U	**0.73**	< 0.57 U	**0.46**	**1.5**	< 0.64 U	< 0.45 U	< 0.56 U	< 0.78 U
Calcium	NL	NL	**2640 J**	**22100 J**	**2640 J**	**2580 J**	**36100 J**	**2940 J**	**11400 J**	**3590**	**2150**	**14100**	**3800**	**1070 J**
Chromium	30	6800	**35.8**	**12.1**	**40.3**	**38.8**	**14.3**	**31.6**	**12.6**	**29.6**	**38.8**	**21.0**	**38.5**	**18.7**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**13.8**	< 5.3 U	**12.1**	**12.6**	**13.9**	**8.5**	**5.1**	**8.4**	**11.1**	**6.1**	**11.1**	**7.9 J**
Copper	50	10000	**14.7**	**47.6**	**14.5**	**14.2**	**113**	**17.4**	**92.7**	**397**	**13.1**	**277**	**13.6**	**23.6**
Iron	NL	NL	**39600 J**	**12400 J**	**38000 J**	**37500 J**	**29400 J**	**37400 J**	**13900 J**	**21100**	**32800**	**11400**	**38600**	**15900**
Lead	63	3900	**13.4**	**207**	**13.8**	**15.4**	**273**	**12.2**	**207**	**304**	**14.2**	**215**	**13.9**	**28.7**
Magnesium	NL	NL	**7870**	**3150**	**8660**	**9000**	**16500**	**6450**	**2350**	**3470**	**6900**	**3020**	**8100**	**2040**
Manganese	1600	10000	**368**	**182**	**436**	**452**	**319**	**337**	**280**	**165**	**304**	**150**	**408**	**203**
Mercury	0.18	5.7	< 0.057 U	**0.28**	< 0.060 U	< 0.061 U	**0.51**	**0.068**	**0.44**	**2.3**	< 0.047 U	**0.46**	< 0.039 U	**0.78**
Nickel	30	10000	**29.2**	**10.4**	**30.2**	**31.0**	**31.0**	**19.6**	**10.8**	**39.3**	**28.2**	**14.0**	**27.8**	**15.5**
Potassium	NL	NL	**3780**	**659**	**4390**	**4680**	**802**	**2740**	**710**	**1820**	**3730**	**576**	**4290**	**890 J**
Selenium	3.9	6800	< 1.3 U	< 1.1 U	< 1.7 U	< 1.5 U	< 1.0 U	< 1.4 U	< 0.93 U	**4.5**	< 1.6 U	**1.6**	< 1.4 U	< 3.9 U
Silver	2	6800	< 0.67 U	< 0.53 U	< 0.85 U	< 0.76 U	< 0.52 U	< 0.72 U	< 0.46 U	**0.89**	< 0.80 U	< 0.57 U	< 0.70 U	< 2.0 U
Sodium	NL	NL	**4380**	**556**	**2800**	**2900**	< 520 U	**4170**	< 460 U	**2200**	**4910**	< 570 U	**3600**	**84.0 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	< 1.3 U	< 1.1 U	< 1.7 U	< 1.5 U	< 1.0 U	< 1.4 U	< 0.93 U	< 1.3 U	< 1.6 U	< 1.1 U	< 1.4 U	< 3.9 U
Vanadium	NL	NL	**45.8**	**16.3**	**40.8**	**42.7**	**17.8**	**60.3**	**19.9**	**26.7**	**42.7**	**18.6**	**40.1**	**26.0**
Zinc	109	10000	**78.5 J**	**196 J**	**86.5 J**	**85.2 J**	**246 J**	**50.5 J**	**255 J**	**340**	**74.4**	**153**	**82.0**	**57.6**
Cyanide (mg/Kg)														
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-40 4/1/2015 SB40 (20-23.5)_460-92568-2 N 20-23.5 92355, 92511, 92568	SB-40 4/1/2015 SB40 (50-55)_460-92568-3 N 50-55 92355, 92511, 92568	SB-41 3/31/2015 SB41 (5-10)_460-92568-4 N 5-10 92355, 92511, 92568	SB-41 4/1/2015 SB41 (35-37)_460-92568-5 N 35-37 92355, 92511, 92568	SB-41 4/1/2015 SB41 (38-39)_460-92568-6 N 38-39 92355, 92511, 92568	SB-42 3/30/2015 SB42(9-10)_460-92511-1 N 9-10 92355, 92511, 92568	SB-42 3/30/2015 SB42(35-37.5)_460-92511-2 N 35-37.5 92355, 92511, 92568	SB-42 3/30/2015 SB42(49-50)_460-92511-3 N 49-50 92355, 92511, 92568	SB-43 3/26/2015 SB43 (8-9)_460-92355-1 N 8-9 92355, 92511, 92568
Metals (mg/Kg)											
Aluminum	NL	NL	**3120**	**2950**	**9610**	**8800**	**27200**	**2630**	**3690**	**3230**	**5930**
Antimony	NL	NL	< 4.0 UJ	< 3.3 UJ	**3.3 J**	< 3.6 UJ	**2.3 J**	< 4.4 UJ	< 3.9 UJ	< 4.1 UJ	**2.3 J**
Arsenic	13	16	**1.5 J**	< 2.5 U	**7.2**	**1.8 J**	**5.5**	**3.9**	**1.4 J**	< 3.1 U	**14.8**
Barium	350	10000	**12.9 J**	**10.5 J**	**146**	**66.2**	**294**	**24.7 J**	**27.8 J**	**25.1 J**	**317**
Beryllium	7.2	2700	< 0.40 U	< 0.33 U	< 0.43 U	< 0.36 U	< 0.40 U	< 0.44 U	< 0.39 U	< 0.41 U	**0.35 J**
Cadmium	2.5	60	< 0.80 U	< 0.66 U	< 0.85 U	< 0.72 U	< 0.80 U	< 0.88 U	< 0.78 U	< 0.83 U	**1.8**
Calcium	NL	NL	**783 J**	**1570 J**	**12500 J**	**3190 J**	**11000 J**	**16900 J**	**1210 J**	**1050 J**	**12500 J**
Chromium	30	6800	**10.7**	**6.4**	**35.8**	**23.0**	**62.4**	**7.0**	**11.0**	**6.4**	**22.0**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**3.1 J**	**2.3 J**	**8.6 J**	**8.0 J**	**19.6**	**4.3 J**	**3.6 J**	**2.3 J**	**7.6 J**
Copper	50	10000	**4.6 J**	**12.4**	**136**	**16.5**	**38.0**	**5.1 J**	**9.9**	**8.2**	**143**
Iron	NL	NL	**5080**	**6150**	**23600**	**22400**	**46300**	**9540**	**13900**	**8000**	**41900**
Lead	63	3900	**3.1**	**2.9**	**406**	**6.3**	**15.5**	**7.6**	**4.1**	**2.5**	**638**
Magnesium	NL	NL	**1140**	**1260**	**4500**	**5490**	**16800**	**1770**	**1830**	**1470**	**2320**
Manganese	1600	10000	**50.1**	**64.5**	**547**	**266**	**751**	**234**	**210**	**93.0**	**352**
Mercury	0.18	5.7	< 0.021 U	< 0.018 U	**12.8**	**0.016 J**	< 0.022 U	**0.014 J**	< 0.017 U	< 0.016 U	**0.36**
Nickel	30	10000	**7.3 J**	**5.1 J**	**17.9**	**20.4**	**56.3**	**9.0**	**9.1**	**6.3 J**	**40.1**
Potassium	NL	NL	**401 J**	**349 J**	**1180**	**2600**	**9390**	**455 J**	**860 J**	**460 J**	**795 J**
Selenium	3.9	6800	< 4.0 U	< 3.3 U	< 4.3 U	< 3.6 U	< 4.0 U	< 4.4 U	< 3.9 U	< 4.1 U	< 4.2 U
Silver	2	6800	< 2.0 U	< 1.6 U	< 2.1 U	< 1.8 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.1 U	< 2.1 U
Sodium	NL	NL	**179 J**	**366 J**	**174 J**	**610 J**	**1560**	**161 J**	**151 J**	**150 J**	**243 J**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	< 4.0 U	< 3.3 U	< 4.3 U	< 3.6 U	< 4.0 U	< 4.4 U	< 3.9 U	< 4.1 U	< 4.2 U
Vanadium	NL	NL	**10.0**	**10**	**32.3**	**30.9**	**65.3**	**12.8**	**18.6**	**8.5 J**	**27.5**
Zinc	109	10000	**27.1**	**7.5**	**350**	**43.5**	**109**	**20.3**	**19.4**	**13.2**	**738**
Cyanide (mg/Kg)											
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-43 3/26/2015 SB43 (45-48)_460-92355-2 N 45-48 92355, 92511, 92568	SB-43 3/26/2015 DUPE-032615_460-92355-4 FD 45-48 92355, 92511, 92568	SB-43 3/26/2015 SB43 (49-50)_460-92355-3 N 49-50 92355, 92511, 92568	SB-44 3/27/2015 SB44 (9-10)_460-92355-5 N 9-10 92355, 92511, 92568	SB-44 3/27/2015 SB44 (38-40)_460-92355-6 N 38-40 92355, 92511, 92568	SB-44 3/27/2015 SB44 (49-50)_460-92355-7 N 49-50 92355, 92511, 92568	SB-45 4/29/2015 SB-45 (10-11)_460-94062-1 N 10-11 94062, 94148	SB-45 4/29/2015 SB-45 (18-20)_460-94062-2 N 18-20 94062, 94148
Metals (mg/Kg)										
Aluminum	NL	NL	**2730**	**2650**	**9130**	**7020**	**6160**	**15300**	**7870**	**3140**
Antimony	NL	NL	< 4.2 UJ	< 4.7 UJ	< 4.6 UJ	< 4.1 UJ	< 4.5 UJ	< 5.0 UJ	< 4.4 UJ	< 78.2 UJ
Arsenic	13	16	**1.3 J**	**1.3 J**	**1.8 J**	**6.4**	**0.97 J**	**2.7 J**	**5.5**	< 58.7 U
Barium	350	10000	**11.7 J**	**12.4 J**	**87.9**	**125**	**57.1**	**121**	**369**	**778 J**
Beryllium	7.2	2700	< 0.42 U	< 0.47 U	< 0.46 U	**0.67**	< 0.45 U	< 0.50 U	**0.52**	< 7.8 U
Cadmium	2.5	60	< 0.84 U	< 0.95 U	< 0.92 U	< 0.83 U	< 0.90 U	< 1.0 U	< 0.89 U	< 15.6 U
Calcium	NL	NL	**2880 J**	**1730 J**	**13900 J**	**7920 J**	**7280 J**	**11800 J**	**52300**	**87900**
Chromium	30	6800	**8.5**	**7.4**	**24.2**	**13.2**	**15.8**	**39.9**	**11.6 J**	**132 J**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**3.0 J**	**3.1 J**	**9.1 J**	**8.3 J**	**6.2 J**	**13.2**	**3.7 J**	< 196 U
Copper	50	10000	**6.0**	**6.7**	**20.3**	**26.0**	**11.3**	**29.2**	**30.1**	**1340**
Iron	NL	NL	**8670**	**6560**	**20900**	**14700**	**17500**	**30900**	**9960**	**4830**
Lead	63	3900	**2.6**	**2.4**	**6.1**	**90.0**	**5.2**	**10**	**172 J**	**18800 J**
Magnesium	NL	NL	**2460**	**1830**	**9600**	**2920**	**6690**	**12400**	**3640**	< 19600 U
Manganese	1600	10000	**90.4**	**62.2**	**423**	**334**	**365**	**557**	**244**	**14200**
Mercury	0.18	5.7	< 0.019 U	< 0.019 U	< 0.019 U	**0.023**	< 0.019 U	< 0.020 U	**0.16**	**0.13**
Nickel	30	10000	**7.5 J**	**7.1 J**	**21.5**	**21.0**	**15.7**	**34.9**	**11.6**	< 156 U
Potassium	NL	NL	**574 J**	**552 J**	**3060**	**1560**	**1780**	**5030**	**1230**	< 19600 U
Selenium	3.9	6800	< 4.2 U	< 4.7 U	< 4.6 U	< 4.1 U	< 4.5 U	< 5.0 U	< 4.4 U	< 78.2 U
Silver	2	6800	< 2.1 U	< 2.4 U	< 2.3 U	< 2.1 U	< 2.2 U	< 2.5 U	< 2.2 U	< 39.1 U
Sodium	NL	NL	**377 J**	**426 J**	**1060 J**	**249 J**	**545 J**	**2000**	**830 J**	< 19600 U
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	< 4.2 U	< 4.7 U	< 4.6 U	< 4.1 U	< 4.5 U	< 5.0 U	< 4.4 U	< 78.2 U
Vanadium	NL	NL	**13.5**	**10.8 J**	**32.3**	**19.9**	**20.7**	**47.7**	**17.9**	< 196 U
Zinc	109	10000	**15.3**	**14.8**	**47.6**	**65.1**	**36.6**	**73.6**	**196 J**	**11400 J**
Cyanide (mg/Kg)										
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-45 4/29/2015 SB-45 (45-48)_460-94062-4 N 45-48 94062, 94148	SB-45 4/29/2015 SB-45 (50-55)_460-94062-3 N 50-55 94062, 94148	SB-46 5/1/2015 SB-46 (11-15)_460-94148-5 N 11-15 94062, 94148	SB-46 5/1/2015 SB-46 (40-43)_460-94148-7 N 40-43 94062, 94148	SB-46 5/1/2015 SB-46 (45-50)_460-94148-6 N 45-50 94062, 94148	SB-47 4/30/2015 SB-47 (10-14)_460-94148-1 N 10-14 94062, 94148	SB-47 4/30/2015 SB-47 (17-19)_460-94148-2 N 17-19 94062, 94148	SB-47 4/30/2015 SB-47 (45-50)_460-94148-3 N 45-50 94062, 94148
Metals (mg/Kg)										
Aluminum	NL	NL	**6810**	**21400**	**8290**	**3570**	**15800**	**2270 J**	**2170**	**12100**
Antimony	NL	NL	< 4.3 UJ	< 5.0 UJ	< 4.7 UJ	< 4.6 UJ	< 4.7 UJ	< 10.9 UJ	< 5.8 UJ	< 4.6 UJ
Arsenic	13	16	< 3.2 U	**2.5 J**	**7.3**	**1.2 J**	**5.3**	**15.1 J**	**23.3**	**4.4**
Barium	350	10000	**74.4**	**222**	**91.3**	**15.1 J**	**141**	**126 J**	**26.5 J**	**98.8**
Beryllium	7.2	2700	< 0.43 U	**0.86**	**0.40 J**	< 0.46 U	**0.55**	< 1.1 UJ	< 0.58 U	**0.42 J**
Cadmium	2.5	60	< 0.86 U	< 0.99 U	< 0.94 U	< 0.92 U	< 2.3 U	< 2.2 UJ	< 1.2 U	< 0.92 U
Calcium	NL	NL	**10200**	**9980**	**4740**	**1290**	**13800**	**19900 J**	**1290 J**	**11600**
Chromium	30	6800	**19.0 J**	**47.6 J**	**17.4 J**	**11.3 J**	**40.7 J**	**41.1 J**	**3.5 J**	**32.6 J**
Chromium, Hexavalent	1	800	NS	NS	NS	NS	NS	NS	NS	NS
Chromium, Trivalent	30	6800	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL	NL	**7.3 J**	**18.4**	**6.1 J**	**3.2 J**	**14.1**	**3.1 J**	**23.9**	**11.3 J**
Copper	50	10000	**14.5**	**35.9**	**32.3**	**8.0**	**30.1**	**412 J**	**43.8**	**25.4**
Iron	NL	NL	**16500**	**39900**	**25400**	**6920**	**33800**	**71800 J**	**8770**	**25700**
Lead	63	3900	**4.4 J**	**15.3 J**	**132 J**	**1.9 J**	**10.2 J**	**854 J**	**10.8 J**	**7.9 J**
Magnesium	NL	NL	**7290**	**14800**	**1840**	**2120**	**12900**	**1550 J**	**140 J**	**10800**
Manganese	1600	10000	**313**	**686**	**287**	**93.7**	**599**	**361 J**	**76.4**	**492**
Mercury	0.18	5.7	< 0.019 U	< 0.020 U	**0.53**	< 0.019 U	< 0.019 U	**0.43 J**	**0.059**	< 0.019 U
Nickel	30	10000	**17.5**	**48.6**	**13.2**	**8.9 J**	**38.0**	**59.1 J**	**39.9**	**29.7**
Potassium	NL	NL	**2360**	**6500**	**838 J**	**758 J**	**5300**	**375 J**	**84.1 J**	**4040**
Selenium	3.9	6800	< 4.3 U	< 5.0 U	< 4.7 U	< 4.6 U	< 4.7 U	< 10.9 UJ	< 5.8 U	< 4.6 U
Silver	2	6800	< 2.1 U	< 2.5 U	< 2.4 U	< 2.3 U	< 2.3 U	< 5.4 UJ	< 2.9 U	< 2.3 U
Sodium	NL	NL	**1100**	**1940**	**131 J**	**275 J**	**1640**	**275 J**	**162 J**	**1530**
Sulfur	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	NL	NL	< 4.3 U	< 5.0 U	< 4.7 U	< 4.6 U	< 4.7 U	< 10.9 UJ	< 5.8 U	< 4.6 U
Vanadium	NL	NL	**24.0**	**50.7**	**26.3**	**12.6**	**45.0**	**17.8 J**	**4.8 J**	**37.9**
Zinc	109	10000	**39.9 J**	**106 J**	**102 J**	**23.5 J**	**76.2 J**	**552 J**	**134 J**	**63.6 J**
Cyanide (mg/Kg)										
Available cyanide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide, Free	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS
Total Cyanide	27	10000	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-8
Summary of Subsurface Soil Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRE-STRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-47 4/30/2015 DUP-01_460-94148-4 FD 45-50 94062, 94148
Metals (mg/Kg)			
Aluminum	NL	NL	**15300**
Antimony	NL	NL	< 4.8 UJ
Arsenic	13	16	**4.9**
Barium	350	10000	**114**
Beryllium	7.2	2700	**0.51**
Cadmium	2.5	60	< 0.97 U
Calcium	NL	NL	**12400**
Chromium	30	6800	**40.6 J**
Chromium, Hexavalent	1	800	NS
Chromium, Trivalent	30	6800	NS
Cobalt	NL	NL	**14.0**
Copper	50	10000	**32.0**
Iron	NL	NL	**31800**
Lead	63	3900	**10.3 J**
Magnesium	NL	NL	**12900**
Manganese	1600	10000	**607**
Mercury	0.18	5.7	< 0.021 U
Nickel	30	10000	**37.6**
Potassium	NL	NL	**5190**
Selenium	3.9	6800	< 4.8 U
Silver	2	6800	< 2.4 U
Sodium	NL	NL	**2020**
Sulfur	NL	NL	NS
Thallium	NL	NL	< 4.8 U
Vanadium	NL	NL	**47.0**
Zinc	109	10000	**78.2 J**
Cyanide (mg/Kg)			
Available cyanide	NL	NL	NS
Cyanide, Free	NL	NL	NS
Total Cyanide	27	10000	NS

Notes:
mg/kg - milograms per kilogram
N - primary sample
FD - field duplicate sample
NL - Not Listed
NS - Not Sampled
NYSDEC - New York State Department of Environmental Conservation
Bold indicates compound detected at a concentration greater than the reporting limit
Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value
Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values
Stippled fill indicates sample location was excavated during subsequent activities at the site.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).
[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-9
Summary of Subsurface Soil PCB, Pesticides, and Herbicides Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	SB-02B 10/13/2009 SB-2B(5)101309 N 5-5 AECOM056	SB-03B 9/28/2009 SB-3(4-5)092809 N 4-5 AECOM049	SB-03B 10/20/2009 SB-3(36-38)102009 N 36-38 AECOM058	SB-03B 10/21/2009 SB-3(46-48)102109 N 46-48 AECOM058	SB-04 9/24/2009 SB-4(1-2)092409 N 1-2 AECOM050	SB-05B 9/28/2009 SB-5(16-18)092809 N 16-18 AECOM049	SB-05B 9/28/2009 SB-5(28-30)092809 N 28-30 AECOM049	SB-05B 9/28/2009 SB-5(52-54)092809 N 52-54 AECOM049	SB-06B 10/14/2009 SB-6(6)101409 N 6-6 AECOM056	SB-07A 10/5/2009 SB-7(6-8)100509 N 6-8 AECOM049	SB-07B 10/27/2009 SB-7(38-40)102709 N 38-40 AECOM058	SB-07B 10/27/2009 SB-7(44-46)102709 N 44-46 AECOM058	SB-08 9/27/2009 SB-8(2-3)092709 N 2-3 AECOM049
PCBs (mg/Kg)															
Aroclor 1016	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 U	< 0.04 UJ	< 0.041 U	< 0.042 U	< 0.047 UJ
Aroclor 1221	NL	NL	< 0.079 U	< 0.074 U	< 3.7 U	< 0.09 U	< 0.62 U	< 0.091 U	< 0.081 U	< 0.097 U	< 0.082 U	< 0.082 U	< 0.083 U	< 0.084 U	< 0.095 U
Aroclor 1232	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 U	< 0.04 UJ	< 0.041 U	< 0.042 U	< 0.047 UJ
Aroclor 1242	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 U	**0.35 J**	< 0.041 U	< 0.042 U	**0.13 J**
Aroclor 1248	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 U	< 0.04 UJ	< 0.041 U	< 0.042 U	< 0.047 UJ
Aroclor 1254	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 U	**0.7 J**	< 0.041 U	< 0.042 U	**0.077**
Aroclor 1260	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	**0.077 J**	**0.3**	< 0.041 U	< 0.042 U	**0.025 J**
Aroclor 1262	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 UJ	< 0.04 UJ	< 0.041 U	< 0.042 U	< 0.047 UJ
Aroclor 1268	NL	NL	< 0.039 U	< 0.037 U	< 1.8 U	< 0.044 U	< 0.3 U	< 0.045 U	< 0.04 U	< 0.048 U	< 0.04 UJ	< 0.04 UJ	< 0.041 U	< 0.042 U	< 0.047 U
PCB (Total) (calculated)	0.1	25	ND	ND	ND	ND	ND	ND	ND	ND	**0.077**	**1.35**	ND	ND	**0.232**
Pesticides (mg/Kg)															
Aldrin	0.005	1.4	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Alpha-BHC	0.02	6.8	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Beta-BHC	0.036	14	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Chlordane	NL	NL	NS	< 0.0019 U	**0.2 NJ**	< 0.0023 U	NS	**0.02 NJ**	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	**0.0038 J**
Chlordane, alpha	0.094	47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane, trans-	NL	NL	NS	< 0.0019 U	**0.11 NJ**	< 0.0023 U	NS	< 0.0023 U	**0.0027 NJ**	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	**0.0071 J**
DDD,4,4-	0.0033	180	NS	< 0.0037 U	**0.15 NJ**	< 0.0044 U	NS	**0.11 J**	**0.016 J**	< 0.0048 U	NS	**0.024 NJ**	< 0.0041 U	< 0.0042 U	**0.014 J**
DDE,4,4-	0.0033	120	NS	< 0.0037 U	< 0.092 U	< 0.0044 U	NS	**0.056 J**	**0.014 J**	< 0.0048 U	NS	**0.034 J**	< 0.0041 U	< 0.0042 U	**0.0073 NJ**
DDT,4,4-	0.0033	94	NS	< 0.0037 U	**1.5**	< 0.0044 U	NS	**0.59 J**	**0.22 J**	< 0.0048 U	NS	**0.059 J**	< 0.0041 U	< 0.0042 U	**0.0076 J**
Delta-BHC	0.04	1000	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	**0.0021 J**	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Dieldrin	0.005	2.8	NS	< 0.0037 U	< 0.092 U	< 0.0044 U	NS	**0.0048 NJ**	< 0.0040 U	< 0.0048 U	NS	**0.019 J**	< 0.0041 U	< 0.0042 U	< 0.0047 U
Endosulfan I	2.4	920	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	**0.0024 J**	< 0.0025 U	NS	**0.0018 J**	< 0.0021 U	< 0.0021 U	< 0.0024 U
Endosulfan II	2.4	920	NS	< 0.0037 U	**0.61**	< 0.0044 U	NS	**0.087 J**	**0.039 J**	< 0.0048 U	NS	**0.0072 NJ**	< 0.0041 U	< 0.0042 U	< 0.0047 U
Endosulfan sulfate	2.4	920	NS	< 0.0037 U	**1.2 NJ**	< 0.0044 U	NS	**0.27 NJ**	**0.16 J**	< 0.0048 U	NS	**0.016 NJ**	< 0.0041 U	< 0.0042 U	< 0.0047 U
Endrin	0.014	410	NS	< 0.0037 U	< 0.092 U	< 0.0044 U	NS	**0.01 NJ**	**0.0035 J**	< 0.0048 U	NS	< 0.0040 U	< 0.0041 U	< 0.0042 U	< 0.0047 U
Endrin aldehyde	NL	NL	NS	< 0.0037 U	< 0.092 U	< 0.0044 U	NS	**0.0074 NJ**	< 0.0040 U	< 0.0048 U	NS	**0.0051 NJ**	< 0.0041 U	< 0.0042 U	< 0.0047 U
Endrin ketone	NL	NL	NS	< 0.0037 U	< 0.092 U	< 0.0044 U	NS	**0.13 J**	**0.081 J**	< 0.0048 U	NS	**0.018 J**	< 0.0041 U	< 0.0042 U	**0.0057 J**
Gamma BHC - Lindane	0.1	23	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	**0.0016 J**	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Heptachlor	0.042	29	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	< 0.0023 U	< 0.0021 U	< 0.0025 U	NS	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0024 U
Heptachlor Epoxide	NL	NL	NS	< 0.0019 U	< 0.047 U	< 0.0023 U	NS	**0.0038 NJ**	< 0.0021 U	< 0.0025 U	NS	**0.0037 NJ**	< 0.0021 U	< 0.0021 U	< 0.0024 U
Methoxychlor	NL	NL	NS	< 0.019 U	**0.38 J**	< 0.023 U	NS	**0.09 NJ**	**0.05 J**	< 0.025 U	NS	**0.12 NJ**	< 0.021 U	< 0.021 U	< 0.024 U
Toxaphene	NL	NL	NS	< 0.19 U	< 4.7 U	< 0.23 U	NS	< 0.23 U	< 0.21 U	< 0.25 U	NS	< 0.21 U	< 0.21 U	< 0.21 U	< 0.24 U
Herbicides (mg/Kg)															
2,4,5-TP (Silvex)	3.8	1000	NS	< 0.0055 U	< 0.0056 UJ	< 0.0067 U	NS	< 0.068 U	< 0.0061 U	< 0.0073 U	NS	< 0.0061 U	< 0.0062 U	< 0.0063 U	< 0.0071 U
2,4-D	NL	NL	NS	< 0.011 U	< 0.011 UJ	< 0.013 U	NS	< 0.14 U	**0.022**	< 0.015 U	NS	R	< 0.012 U	< 0.013 U	< 0.014 UJ
2,4-DB	NL	NL	NS	**0.0080 J**	< 0.045 UJ	< 0.013 U	NS	< 0.14 U	< 0.012 U	R	NS	R	< 0.012 U	< 0.013 U	**0.022 JN**
T,2,4,5-	NL	NL	NS	**0.011**	< 0.011 UJ	< 0.0067 U	NS	< 0.068 U	**0.016**	< 0.0073 U	NS	**0.087 J**	< 0.0062 U	< 0.0063 U	**0.0068 J**

Notes are on the last page.

Table 5-9
Summary of Subsurface Soil PCB, Pesticides, and Herbicides Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID			SB-08	SB-09	SB-10	SB-12A	SB-13	SB-14A	SB-15	SB-16A	SB-17	SB-17	SB-17	SB-17
Sample Date			10/18/2009	9/27/2009	9/27/2009	9/25/2009	9/27/2009	9/27/2009	9/23/2009	9/24/2009	9/25/2009	10/22/2009	10/22/2009	10/22/2009
Sample ID			SB-8(24-26)101809	SB-9(4-5)092709	SB-10(3-4)092709	SB-12(4-5)092509	SB-13(0-1)092709	SB-14(1-2)092709	SB-15(3-4)092309	SB-16(2-3)092409	SB-17(1-2)092509	SB-17(16-18)102209	SB-17(36-38)102209	SB-17(40-42)102209
Sample Type			N	N	N	N	N	N	N	N	N	N	N	N
Depth Interval			24-26	4-5	3-4	4-5	0-1	1-2	3-4	2-3	1-2	16-18	36-38	40-42
SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	AECOM058	AECOM050	AECOM050	AECOM050	AECOM056	AECOM050	AECOM050	AECOM050	AECOM049	AECOM058	AECOM058	AECOM058
PCBs (mg/Kg)														
Aroclor 1016	NL	NL	< 0.33 U	< 0.04 UJ	< 0.045 UJ	< 0.038 U	< 0.042 UJ	< 0.044 U	< 0.042 UJ	< 0.038 UJ	< 0.036 UJ	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1221	NL	NL	< 0.67 U	< 0.082 U	< 0.092 U	< 0.077 U	< 0.086 U	< 0.089 U	< 0.086 U	< 0.077 U	< 0.073 U	< 0.67 U	< 0.077 U	< 0.082 U
Aroclor 1232	NL	NL	< 0.33 U	< 0.04 UJ	< 0.045 UJ	< 0.038 U	< 0.042 UJ	< 0.044 U	< 0.042 UJ	< 0.038 UJ	< 0.036 UJ	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1242	NL	NL	< 0.33 U	**0.69 J**	**0.33 J**	< 0.038 U	**0.14 J**	**0.36**	**0.96**	**0.46 J**	**0.13**	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1248	NL	NL	< 0.33 U	< 0.04 UJ	< 0.045 UJ	< 0.038 U	< 0.042 UJ	< 0.044 U	< 0.042 UJ	< 0.038 UJ	< 0.036 U	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1254	NL	NL	< 0.33 U	**1.5 J**	**0.33 J**	< 0.038 U	**0.15 J**	**0.15 J**	**0.39 J**	**0.78**	**5 J**	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1260	NL	NL	< 0.33 U	**0.38 J**	**0.99**	< 0.038 U	**0.069**	**0.076 J**	**0.22 J**	**0.19 J**	**0.72**	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1262	NL	NL	< 0.33 U	< 0.04 UJ	< 0.045 UJ	< 0.038 U	< 0.042 UJ	< 0.044 UJ	< 0.042 UJ	< 0.038 UJ	< 0.036 UJ	< 0.33 U	< 0.038 U	< 0.04 U
Aroclor 1268	NL	NL	< 0.33 U	< 0.04 UJ	< 0.045 UJ	< 0.038 U	< 0.042 U	< 0.044 U	< 0.042 UJ	< 0.038 UJ	< 0.036 UJ	< 0.33 U	< 0.038 U	< 0.04 U
PCB (Total) (calculated)	0.1	25	ND	**2.57**	**1.65**	ND	**0.359**	**0.586**	**1.57**	**1.43**	**5.85**	ND	ND	ND
Pesticides (mg/Kg)														
Aldrin	0.005	1.4	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	**0.018 NJ**	< 0.0021 U	< 0.0019 U	< 0.0021 U
Alpha-BHC	0.02	6.8	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	< 0.0018 U	< 0.0021 U	< 0.0019 U	< 0.0021 U
Beta-BHC	0.036	14	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	< 0.0018 U	**0.0045 NJ**	< 0.0019 U	< 0.0021 U
Chlordane	NL	NL	**0.15 NJ**	NS	NS	NS	NS	NS	NS	NS	**0.015 NJ**	**0.025 NJ**	**0.0051 NJ**	< 0.0021 U
Chlordane, alpha	0.094	47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane, trans-	NL	NL	**0.1 NJ**	NS	NS	NS	NS	NS	NS	NS	**0.032 J**	**0.016 NJ**	**0.0044 NJ**	< 0.0021 U
DDD,4,4-	0.0033	180	< 0.1 U	NS	NS	NS	NS	NS	NS	NS	**0.011 NJ**	**0.037 J**	< 0.0038 U	< 0.0040 U
DDE,4,4-	0.0033	120	< 0.1 U	NS	NS	NS	NS	NS	NS	NS	**0.047 J**	< 0.0041 U	**0.0045 J**	< 0.0040 U
DDT,4,4-	0.0033	94	**1.6**	NS	NS	NS	NS	NS	NS	NS	**0.11 J**	**0.39 J**	**0.036 J**	< 0.0040 U
Delta-BHC	0.04	1000	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	**0.0027 NJ**	< 0.0021 U	< 0.0019 U	< 0.0021 U
Dieldrin	0.005	2.8	< 0.1 U	NS	NS	NS	NS	NS	NS	NS	**0.029 NJ**	**0.0050 J**	**0.0047 J**	< 0.0040 U
Endosulfan I	2.4	920	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	< 0.0018 U	< 0.0021 U	< 0.0019 U	< 0.0021 U
Endosulfan II	2.4	920	**0.45**	NS	NS	NS	NS	NS	NS	NS	**0.014 NJ**	**0.097 J**	**0.016 J**	< 0.0040 U
Endosulfan sulfate	2.4	920	**0.22 NJ**	NS	NS	NS	NS	NS	NS	NS	< 0.018 U	**0.35 J**	**0.0054 NJ**	< 0.0040 U
Endrin	0.014	410	< 0.1 U	NS	NS	NS	NS	NS	NS	NS	**0.012 J**	< 0.0041 U	< 0.0038 U	< 0.0040 U
Endrin aldehyde	NL	NL	**0.15 J**	NS	NS	NS	NS	NS	NS	NS	**0.02 NJ**	**0.0051 NJ**	< 0.0038 U	< 0.0040 U
Endrin ketone	NL	NL	< 0.1 U	NS	NS	NS	NS	NS	NS	NS	**0.029 J**	< 0.0041 U	**0.0043 J**	< 0.0040 U
Gamma BHC - Lindane	0.1	23	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	< 0.0018 U	< 0.0021 U	< 0.0019 U	< 0.0021 U
Heptachlor	0.042	29	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	**0.0036 NJ**	< 0.0021 U	< 0.0019 U	< 0.0021 U
Heptachlor Epoxide	NL	NL	< 0.053 U	NS	NS	NS	NS	NS	NS	NS	**0.0097 NJ**	< 0.0021 U	< 0.0019 U	< 0.0021 U
Methoxychlor	NL	NL	< 0.53 U	NS	NS	NS	NS	NS	NS	NS	**0.18 J**	**0.26 J**	< 0.019 U	< 0.021 U
Toxaphene	NL	NL	< 5.3 U	NS	NS	NS	NS	NS	NS	NS	< 0.18 U	< 2.1 U	< 0.38 U	< 0.21 U
Herbicides (mg/Kg)														
2,4,5-TP (Silvex)	3.8	1000	< 0.0062 U	NS	NS	NS	NS	NS	NS	NS	< 0.0054 U	< 0.0062 U	< 0.0057 U	< 0.0061 U
2,4-D	NL	NL	**0.012**	NS	NS	NS	NS	NS	NS	NS	< 0.011 U	< 0.012 U	< 0.011 U	< 0.012 U
2,4-DB	NL	NL	< 0.012 U	NS	NS	NS	NS	NS	NS	NS	**0.0075 J**	< 0.012 U	< 0.011 U	R
T,2,4,5-	NL	NL	**0.0077**	NS	NS	NS	NS	NS	NS	NS	**0.0072**	**0.0052**	< 0.0057 U	< 0.0061 U

Notes are on the last page.

Table 5-9
Summary of Subsurface Soil PCB, Pesticides, and Herbicides Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID			SB-18	TP-08	TP-12	TP-12A	TP-16	TP-17	T1-SB7	T1-SB7	T1-SB8	T1-SB8	T1-SB9	T1-SB9	T1-SB9	T2-SB1	T2-SB1
Sample Date			9/25/2009	9/1/2011	9/7/2011	9/8/2011	9/2/2011	9/7/2011	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/21/2014	5/20/2014	5/20/2014
Sample ID			SB-18(4-5)092509	TP-8(6.4-6.7)	TP-12(4-5)	TP-12A (4-5)	TP-16(5-6)	TP-17(6-6.67)	T1-SB7 (16.5-17.5)	T1-SB7 (22-23)	T1-SB8 (17-18.5)	T1-SB8 (23-24)	T1-SB9 (15-18)	T1-SB9 (18-20)	DUP-5/21/14	T2-SB1 (15-20)	T2-SB1 (21-22)
Sample Type	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Depth Interval			4-5	6.4-6.7	4-5	4-5	5-6	6-6.67	16.5-17.5	22-23	17-18.5	23-24	15-18	18-20	18-20	15-20	21-22
SDG			AECOM050	K1658	K1658	K1658	K1658	K1658	MC30823	MC30823	MC30823	MC30823	MC30823	MC30823	MC30823	MC30767	MC30767
PCBs (mg/Kg)																	
Aroclor 1016	NL	NL	< 0.039 UJ	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1221	NL	NL	< 0.08 UJ	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1232	NL	NL	< 0.039 U	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1242	NL	NL	**0.35**	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1248	NL	NL	< 0.039 UJ	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1254	NL	NL	**1.4**	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	**0.12**	**0.313**	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1260	NL	NL	**0.26 J**	< 0.041 U	< 0.041 U	**0.11**	< 0.28 U	< 0.04 U	< 0.047 U	< 0.04 U	< 0.24 U	< 0.06 U	< 0.037 U	< 0.06 U	< 0.059 U	< 0.043 U	< 0.061 U
Aroclor 1262	NL	NL	< 0.039 UJ	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Aroclor 1268	NL	NL	< 0.039 UJ	< 0.041 U	< 0.041 U	< 0.038 U	< 0.28 U	< 0.04 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
PCB (Total) (calculated)	0.1	25	**2.01**	ND	ND	**0.11**	ND	**0.12**	**0.313**	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides (mg/Kg)																	
Aldrin	0.005	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Alpha-BHC	0.02	6.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beta-BHC	0.036	14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane, alpha	0.094	47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlordane, trans-	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DDD,4,4-	0.0033	180	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DDE,4,4-	0.0033	120	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DDT,4,4-	0.0033	94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Delta-BHC	0.04	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dieldrin	0.005	2.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endosulfan I	2.4	920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endosulfan II	2.4	920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endosulfan sulfate	2.4	920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin	0.014	410	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin aldehyde	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Endrin ketone	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Gamma BHC - Lindane	0.1	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Heptachlor	0.042	29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Heptachlor Epoxide	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methoxychlor	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toxaphene	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Herbicides (mg/Kg)																	
2,4,5-TP (Silvex)	3.8	1000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-D	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-DB	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
T,2,4,5-	NL	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes are on the last page.

Table 5-9
Summary of Subsurface Soil PCB, Pesticides, and Herbicides Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID Sample Date Sample ID Sample Type Depth Interval SDG	NYSDEC PART 375-6 UNRESTRICTED [1]	NYSDEC PART 375-6 INDUSTRIAL [2]	T2-SB4 5/20/2014 T2-SB4 (5-10) N 5-10 MC30823	T5-SB2 10/15/2014 T5-SB2(18-19)101514 N 18-19 MC34374	T5-SB2 10/15/2014 T5-SB2(21.5-25)101514 N 21.5-25 MC34374	T5-SB7 10/13/2014 T5-SB7 (10-11)101314 N 10-11 MC34323	T5-SB7 10/13/2014 T5-SB7 (11.5-15)101314 N 11.5-15 MC34323
PCBs (mg/Kg)							
Aroclor 1016	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1221	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1232	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1242	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1248	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1254	NL	NL	< 0.037 U	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1260	NL	NL	**0.0495**	< 0.044 U	< 0.056 U	< 0.044 U	< 0.056 U
Aroclor 1262	NL	NL	NS	NS	NS	NS	NS
Aroclor 1268	NL	NL	NS	NS	NS	NS	NS
PCB (Total) (calculated)	0.1	25	**0.0495**	ND	ND	ND	ND
Pesticides (mg/Kg)							
Aldrin	0.005	1.4	NS	NS	NS	NS	NS
Alpha-BHC	0.02	6.8	NS	NS	NS	NS	NS
Beta-BHC	0.036	14	NS	NS	NS	NS	NS
Chlordane	NL	NL	NS	NS	NS	NS	NS
Chlordane, alpha	0.094	47	NS	NS	NS	NS	NS
Chlordane, trans-	NL	NL	NS	NS	NS	NS	NS
DDD,4,4-	0.0033	180	NS	NS	NS	NS	NS
DDE,4,4-	0.0033	120	NS	NS	NS	NS	NS
DDT,4,4-	0.0033	94	NS	NS	NS	NS	NS
Delta-BHC	0.04	1000	NS	NS	NS	NS	NS
Dieldrin	0.005	2.8	NS	NS	NS	NS	NS
Endosulfan I	2.4	920	NS	NS	NS	NS	NS
Endosulfan II	2.4	920	NS	NS	NS	NS	NS
Endosulfan sulfate	2.4	920	NS	NS	NS	NS	NS
Endrin	0.014	410	NS	NS	NS	NS	NS
Endrin aldehyde	NL	NL	NS	NS	NS	NS	NS
Endrin ketone	NL	NL	NS	NS	NS	NS	NS
Gamma BHC - Lindane	0.1	23	NS	NS	NS	NS	NS
Heptachlor	0.042	29	NS	NS	NS	NS	NS
Heptachlor Epoxide	NL	NL	NS	NS	NS	NS	NS
Methoxychlor	NL	NL	NS	NS	NS	NS	NS
Toxaphene	NL	NL	NS	NS	NS	NS	NS
Herbicides (mg/Kg)							
2,4,5-TP (Silvex)	3.8	1000	NS	NS	NS	NS	NS
2,4-D	NL	NL	NS	NS	NS	NS	NS
2,4-DB	NL	NL	NS	NS	NS	NS	NS
T,2,4,5-	NL	NL	NS	NS	NS	NS	NS

Notes:
mg/kg - milograms per kilogram
N - primary sample
FD - field duplicate sample
ND - Not Detected
NL - Not Listed
NS - Not Sampled
NYSDEC - New York State Department of Environmental Conservation
Bold indicates compound detected at a concentration greater than the reporting limit
Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value
Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values
Stippled fill indicates sample location was excavated during subsequent activities at the site.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N - (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
NJ - (Organics) The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).
[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

AECOM

Table 5-10
Summary of Subsurface Soil Total Petroleum Hydrocarbons Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID	SB-06	TP-08	TP-11	TP-12	TP-12A	TP-13	TP-15A
Sample Date	10/21/2009	9/1/2011	9/8/2011	9/7/2011	9/8/2011	9/2/2011	9/7/2011
Sample ID	SB-6(16-18)102109	TP-8(6.4-6.7)	TP-11(6-6.63)	TP-12(4-5)	TP-12A (4-5)	TP-13(5.5-6)	TP-15A(6.5-6.83)
Depth Interval	16-18	6.4-6.7	6-6.3	4-5	4-5	5.5-6	6.5-6.83
Sample Type	N	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	NS	**640**	**1100 B**	**6900 B**	**470 B**	**180 B**	**540 B**
GRO Petroleum Hydrocarbons	NS	< 3.7 U	< 3.8 U	**100**	< 3.3 U	< 3.4 U	< 3.6 U
Total Petroleum Hydrocarbons	**1000**	NS	NS	NS	NS	NS	NS

Location ID	TP-16	TP-17	TP-2B-1	T1-SB7	T1-SB7	T1-SB8	T1-SB8
Sample Date	9/2/2011	9/7/2011	9/9/2011	5/21/2014	5/21/2014	5/21/2014	5/21/2014
Sample ID	TP-16(5-6)	TP-17(6-6.67)	TP-2B-1(7-7.5)	T1-SB7 (16.5-17.5)	T1-SB7 (22-23)	T1-SB8 (17-18.5)	T1-SB8 (23-24)
Depth Interval	5-6	6-6.67	7-7.5	16.5-17.5	22-23	17-18.5	23-24
Sample Type	N	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	**160000**	**2700 B**	**260 B**	NS	NS	NS	NS
GRO Petroleum Hydrocarbons	**350**	< 3.6 U	**8**	NS	NS	NS	NS
Total Petroleum Hydrocarbons	NS	NS	NS	**12100 J**	**52.5**	**17500 J**	**319**

Location ID	T1-SB9	T1-SB9	T1-SB9	T2-SB1	T2-SB1	T2-SB4	T5-SB2
Sample Date	5/21/2014	5/21/2014	5/21/2014	5/20/2014	5/20/2014	5/20/2014	10/15/2014
Sample ID	T1-SB9 (15-18)	T1-SB9 (18-20)	DUP-5/21/14	T2-SB1 (15-20)	T2-SB1 (21-22)	T2-SB4 (5-10)	T5-SB2(18-19)101514
Depth Interval	15-18	18-20	18-20	15-20	21-22	5-10	18-19
Sample Type	N	N	FD	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	**38200**
GRO Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	**326**
Total Petroleum Hydrocarbons	**4570 J**	**410**	**328**	**8250**	**671**	**3510**	NS

Location ID	T5-SB2	T5-SB7	T5-SB7	SB-40	SB-40	SB-40	SB-41
Sample Date	10/15/2014	10/13/2014	10/13/2014	4/1/2015	4/1/2015	4/1/2015	3/31/2015
Sample ID	T5-SB2(21.5-25)101514	T5-SB7 (10-11)101314	T5-SB7 (11.5-15)101314	SB40 (9-10)_460-92568-1	SB40 (20-23.5)_460-92568-2	SB40 (50-55)_460-92568-3	SB41 (5-10)_460-92568-4
Depth Interval	21.5-25	10-11	11.5-15	9-10	20-23.5	50-55	5-10
Sample Type	N	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	**106**	**775**	< 27 U	**6000**	**5800**	**130**	**3900**
GRO Petroleum Hydrocarbons	< 28 U	**49.9**	< 18 U	< 1.3 U	**2500**	< 1.4 U	**1.9**
Total Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	NS

Location ID	SB-41	SB-41	SB-42	SB-42	SB-42	SB-43	SB-43
Sample Date	4/1/2015	4/1/2015	3/30/2015	3/30/2015	3/30/2015	3/26/2015	3/26/2015
Sample ID	SB41 (35-37)_460-92568-5	SB41 (38-39)_460-92568-6	SB42(9-10)_460-92511-1	SB42(35-37.5)_460-92511-2	SB42(49-50)_460-92511-3	SB43 (8-9)_460-92355-1	SB43 (45-48)_460-92355-2
Depth Interval	35-37	38-39	9-10	35-37.5	49-50	8-9	45-48
Sample Type	N	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	**1300**	**55**	**42**	**22**	< 9.9 U	**3500**	**7700 J**
GRO Petroleum Hydrocarbons	**34**	**14**	< 1.2 U	< 1.2 U	< 1 U	**3.8**	**1200**
Total Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	NS

Table 5-10
Summary of Subsurface Soil Total Petroleum Hydrocarbons Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID	SB-43	SB-43	SB-44	SB-44	SB-44	SB-45	SB-45
Sample Date	3/26/2015	3/26/2015	3/27/2015	3/27/2015	3/27/2015	4/29/2015	4/29/2015
Sample ID	DUPE-032615_460-92355-4	SB43 (49-50)_460-92355-3	SB44 (9-10)_460-92355-5	SB44 (38-40)_460-92355-6	SB44 (49-50)_460-92355-7	SB-45 (10-11)_460-94062-1	SB-45 (18-20)_460-94062-2
Depth Interval	45-48	49-50	9-10	38-40	49-50	10-11	18-20
Sample Type	FD	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	**3000 J**	**13 J-**	**160**	**19**	< 11 U	**96**	**3200**
GRO Petroleum Hydrocarbons	**1700**	< 1.2 U	**14**	**8.1**	< 1.2 U	< 1.9 U	**910**
Total Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	NS

Location ID	SB-45	SB-45	SB-46	SB-46	SB-46	SB-47	SB-47
Sample Date	4/29/2015	4/29/2015	5/1/2015	5/1/2015	5/1/2015	4/30/2015	4/30/2015
Sample ID	SB-45 (45-48)_460-94062-4	SB-45 (50-55)_460-94062-3	SB-46 (11-15)_460-94148-5	SB-46 (40-43)_460-94148-7	SB-46 (45-50)_460-94148-6	SB-47 (10-14)_460-94148-1	SB-47 (17-19)_460-94148-2
Depth Interval	45-48	50-55	11-15	40-43	45-50	10-14	17-19
Sample Type	N	N	N	N	N	N	N
Oil (mg/Kg)							
DRO Petroleum Hydrocarbons	**17**	**19**	**550 J-**	**22**	**26**	**7900 J**	**270**
GRO Petroleum Hydrocarbons	< 1.6 U	< 1.8 U	**16**	**4.4**	< 2.3 U	**42 J**	< 6 U
Total Petroleum Hydrocarbons	NS	NS	NS	NS	NS	NS	NS

Location ID	SB-47	SB-47
Sample Date	4/30/2015	4/30/2015
Sample ID	SB-47 (45-50)_460-94148-3	DUP-01_460-94148-4
Depth Interval	45-50	45-50
Sample Type	N	FD
Oil (mg/Kg)		
DRO Petroleum Hydrocarbons	**50**	**34**
GRO Petroleum Hydrocarbons	< 2.3 U	< 3.2 U
Total Petroleum Hydrocarbons	NS	NS

Notes:
mg/kg - milograms per kilogram
N - primary sample
FD - field duplicate sample
NS - Not Sampled
DRO - Diesel range organics
GRO - Gasoline range organics
NYSDEC - New York State Department of Environmental Conservation
Bold indicates compound detected at a concentration greater than the reporting limit
Grey highlight indicates exceedance of the NYSDEC PART 375-6 UNRESTRICTED USE standard value
Yellow highlight indicates exceedance of the NYSDEC PART 375-6 INDUSTRIAL and UNRESTRICTED USE standard values
Stippled fill indicates sample location was excavated during subsequent activities at the site.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

[1] Unrestricted Use Soil Cleanup Objectives from 6 CRR-NY 375-6.8, Table 375-6.8(a).
[2] Restricted Use Soil Cleanup Objectives for Industrial Use from 6 CRR-NY 375-6.8., Table 375-6.8(b).

Table 5-11
Summary of Groundwater VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		NYSDEC Groundwater Guidance or Standard Value [1]		GW-01	PW-01	MW-01A	MW-01B	MW-01C	MW-02A	MW-02B	MW-03A	MW-03C	MW-04A	MW-04A	MW-04B	MW-04C	MW-04C	MW-05A	MW-05B	MW-06A
Sample Date				9/27/2009	12/16/2009	12/14/2009	12/14/2009	12/14/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009
Sample ID				GW-1-092709	PW1-121609	MW1A-121409	MW1B-121409	MW1C-121409	MW2A-121609	MW2B-121609	MW3A-121509	MW3C-121509	MW4A-121609	MW4A-121609D	MW4B-121509	MW4C-121509	MW4C-121509D	MW5A-121609	MW5B-121609	MW6A-121509
Sample Type				N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N	N	N
Groundwater Zone				Shallow [2]	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Shallow	Deep	Shallow	Shallow	Intermediate	Deep	Deep	Shallow	Intermediate	Shallow
BTEX (ug/L)																				
Benzene	1	s		**6400 J**	**950**	< 5 U	**8**	**2 J**	**63**	**4000**	**120 J**	**8900 D**	**5700 D**	**5700 D**	**4700**	**190**	**190**	**260**	**19000**	**1 J**
Ethylbenzene	5	s		**2600 J**	**550**	< 5 U	**7**	**13**	**62**	**990**	**69**	**2200 D**	**52**	**49**	**190**	**170**	**160**	**760**	**1300**	< 5 U
m+p-Xylene	NA			**2500 J**	**910**	< 10 U	**6 J**	**67**	**180**	**650**	**38**	**830 D**	**510 D**	**500 D**	**82**	**33**	**34**	**390**	**2600**	< 10 U
o-Xylene	NA			**1200 J**	**640**	< 5 U	**6**	**32**	**110**	**430**	**27**	**740 D**	**170**	**170**	**61**	**19**	**18**	**340**	**1300**	< 5 U
Toluene	5	s		**2800 J**	**930**	< 5 U	**6**	**8**	**21**	**730**	**3 J**	**2200 D**	**1900 D**	**1900 D**	**140**	**39**	**42**	**16**	**9000**	< 5 U
Total Xylenes	5	s		**3700**	**1550**	ND	**12**	**99**	**290**	**1080**	**65**	**1570**	**680**	**670**	**143**	**52**	**52**	**730**	**3900**	ND
Total BTEX (calculated)	NL			**15500**	**3980**	ND	**33**	**122**	**436**	**6800**	**257**	**14870**	**8332**	**8319**	**5173**	**451**	**444**	**1766**	**33200**	**1**
Other VOCs (ug/L)																				
1,1,1-Trichloroethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2,2-Tetrachloroethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1,2-Trichloroethane	1	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethane	5	s		**2 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,1-Dichloroethene	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**4 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2,3-Trichlorobenzene	5	s		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	5	s		< 5 UJ	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromo-3-chloropropane	0.04	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dibromoethane	0.0006	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichlorobenzene	3	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloroethane	0.6	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,2-Dichloropropane	1	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,3-Dichlorobenzene	3	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,4-Dichlorobenzene	3	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
1,4-Dioxane	NL			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	50	g		**5 J**	< 25 U	< 25 U	< 25 U	< 25 U	**6 J**	< 25 U	< 25 U	**10 J**	**13 J**	**13 J**	**26**	< 25 U	< 25 U	< 25 U	**4 J**	< 25 U
2-Chloroethylvinyl ether	NL			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	50	g		R	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
4-Methyl-2-pentanone	NL			**2 J**	< 25 U	< 25 U	< 25 U	< 25 U	**5 J**	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	**3 J**	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Acetone	50	g		**19 J**	< 25 U	< 25 U	< 25 U	< 25 U	**83 J**	< 25 U	< 25 U	**8 J**	**54 J**	**57 J**	**190 J**	< 25 U	< 25 U	< 25 U	**21 J**	< 25 U
Acrolein	5	s		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acrylonitrile	5	s		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	5	s		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	50	g		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromoform	50	g		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Bromomethane	5	s		R	< 5 UJ	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 UJ	< 5 UJ	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 UJ	< 5 U
Carbon disulfide	60	g		< 5 UJ	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**6**	< 5 U	< 5 U	< 5 U	**3 J**	< 5 U
Carbon tetrachloride	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chlorobenzene	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	**3 J**	**1 J**	< 5 U	**4 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloroform	7	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**1 J**	**1 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Chloromethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
cis-1,2-Dichloroethene	5	s		**1 J**	**79**	< 5 U	**34**	**10**	< 5 U	**1600**	< 5 U	**79**	< 5 U	< 5 U	< 5 U	**850**	**830**	< 5 U	**3 J**	< 5 U
cis-1,3-Dichloropropene	0.4	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Cyclohexane	NL			R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**2 J**	**2 J**	**3 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dibromochloromethane	50	g		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Dichlorodifluoromethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Isopropylbenzene	5	s		**49 J**	**43**	< 5 U	< 5 U	< 5 U	**4 J**	**60**	**6**	**29**	< 5 U	< 5 U	**7**	**45**	**42**	**46**	**14**	< 5 U
Methyl acetate	NL			R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methyl tert-butyl ether	10	g		**16 J**	< 5 U	< 5 U	**2 J**	< 5 U	< 5 U	**5**	**3 J**	**9**	**2 J**	**2 J**	**1 J**	< 5 U	< 5 U	**4 J**	**2 J**	< 5 U
Methylcyclohexane	NL			R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**3 J**	< 5 U	< 5 U	< 5 U	**2 J**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Methylene chloride	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Styrene	5	s		**340 J**	**710**	< 5 U	**3 J**	**19**	**5**	**13**	**1 J**	**130**	**160**	**160**	**18**	**3 J**	**3 J**	< 5 U	**1900**	< 5 U
Tetrachloroethene	5	s		R	**340**	< 5 U	**120**	**49**	< 5 U	**6**	< 5 U	**110**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
trans-1,2-Dichloroethene	5	s		R	**54**	< 5 U	**3 J**	< 5 U	< 5 U	**89**	< 5 U	**25**	< 5 U	< 5 U	< 5 U	**1500**	**1400**	< 5 U	< 5 U	**3 J**
trans-1,3-Dichloropropene	0.4	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Trichloroethene	5	s		R	**410**	< 5 U	**25**	**8**	< 5 U	**18**	< 5 U	**53**	< 5 U	< 5 U	< 5 U	**63**	**58**	< 5 U	< 5 U	< 5 U
Trichlorofluoromethane	5	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Vinyl Acetate	NL			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vinyl chloride	2	s		R	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	**28**	< 5 U	**5**	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Total VOCs (calculated)	NL			**15934**	**5616**	ND	**220**	**208**	**542**	**8624**	**270**	**15332**	**8564**	**8554**	**5429**	**2912**	**2777**	**1816**	**35147**	**4**

Notes are on the last page.

Table 5-11
Summary of Groundwater VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		MW-06B	MW-07A	MW-07B	MW-08A	MW-08B	MW-08C	SB-20J	MW-09C	MW-10C	MW-11B	MW-11C	MW-12B	MW-12B	MW-12C	MW-16A	MW-16B
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]	12/14/2009	12/15/2009	12/15/2009	8/11/2012	8/11/2012	8/11/2012	8/11/2012	2/6/2013	2/5/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	8/1/2013	8/1/2013
Sample ID		MW6B-121409	MW7A-121509	MW7B-121509	MW-8A-081112	MW-8B-081112	MW-8C-081112	SB-20J-081112	MW-9C_020613	MW-10C_020513	MW-11B_020413	MW-11C_020413	MW-12B_020413	DUPE 2-4_020413	MW-12C_020413	MW16A-080113	MW16B-080113
Sample Type		N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N
Groundwater Zone		Intermediate	Shallow	Intermediate	Shallow	Intermediate	Deep	Deep [3]	Deep	Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Shallow	Intermediate
BTEX (ug/L)																	
Benzene	1 s	**2 J**	**70**	**9700**	**0.13 J**	**210**	**960**	**0.40 J**	**0.30 J**	**0.26 J**	**34**	**400**	**86**	**88**	**250**	< 0.50 U	**13**
Ethylbenzene	5 s	**2 J**	**2 J**	**1800**	< 1.0 U	**870**	**920**	< 1.0 U	< 1.0 U	< 1.0 U	**12**	**100**	**0.46 J**	**0.54 J**	**48**	< 1.0 U	**0.38 J**
m+p-Xylene	NA	**5 J**	< 10 U	**930 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NA	**3 J**	< 5 U	**750**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	5 s	**3 J**	< 5 U	**35**	< 1.0 U	**12**	**1300**	**1.2**	< 1.0 U	< 1.0 U	**0.42 J**	**13**	**0.37 J**	**0.37 J**	**190**	< 1.0 U	**0.52 J**
Total Xylenes	5 s	**8**	ND	**1680**	< 3.0 U	**30**	**1000**	< 3.0 U	< 3.0 U	< 3.0 U	**0.94 J**	**51**	< 3.0 U	< 3.0 U	**120**	< 1.0 U	**1.8**
Total BTEX (calculated)	NL	**15**	**72**	**13215**	**0.13**	**1122**	**4180**	**1.6**	**0.3**	**0.26**	**47.36**	**564**	**86.83**	**88.91**	**608**	ND	**15.7**
Other VOCs (ug/L)																	
1,1,1-Trichloroethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 2.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	NS	NS
1,1,2-Trichloroethane	1 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	**0.20 J**	**0.17 J**	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	**0.24 J**	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	5 s	NS	NS	NS	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
1,2,4-Trichlorobenzene	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
1,2-Dibromo-3-chloropropane	0.04 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
1,2-Dibromoethane	0.0006 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
1,2-Dichlorobenzene	3 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	0.6 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	**5.4**	< 1.0 U	**0.33 J**	**0.48 J**	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	1 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 2.0 U
1,3-Dichlorobenzene	3 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	3 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	NL	NS	NS	NS	< 50 UJ	< 500 UJ	< 250 U	< 50 UJ	< 50 U	< 50 U	< 50 U	< 100 U	< 50 UJ	< 50 UJ	< 50 U	NS	NS
2-Butanone	50 g	< 25 U	< 25 U	< 25 U	< 5.0 U	< 50 U	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chloroethylvinyl ether	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	R	R
2-Hexanone	50 g	< 25 U	< 25 U	< 25 U	< 5.0 U	< 50 U	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-pentanone	NL	< 25 U	< 25 U	< 25 U	< 5.0 U	< 50 U	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	50 g	**8 J**	< 25 U	< 25 U	< 5.0 U	< 50 U	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	**8.9**	< 10 U	< 5.0 U	< 5.0 U	**4.4 J**	< 10 U	< 10 U
Acrolein	5 s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 25 U	< 25 U
Acrylonitrile	5 s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 5.0 U	< 5.0 U
Bromochloromethane	5 s	NS	NS	NS	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
Bromodichloromethane	50 g	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	50 g	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 2.0 U
Carbon disulfide	60 g	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.8**	**1.9 J**	**2.5**	**2.3**	**2.0**	< 5.0 U	< 5.0 U
Carbon tetrachloride	5 s	< 5 U	< 5 U	< 5 U	< 1.0 UJ	< 10 UJ	< 5.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	5 s	< 5 U	< 5 U	**4 J**	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 2.0 U
Chloroform	7 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	**0.64 J**	**0.42 J**	**0.12 J**	< 1.0 U	**18**	< 1.0 U	< 1.0 U	**29**	< 1.0 U	**1.1**
Chloromethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	**0.40 J**	< 2.0 U	< 2.0 U
cis-1,2-Dichloroethene	5 s	< 5 U	< 5 U	**6**	**1.7**	**19**	**14**	< 1.0 U	**16**	**2.2**	< 1.0 U	**100**	**0.46 J**	**0.45 J**	**17**	< 1.0 U	**2.0**
cis-1,3-Dichloropropene	0.4 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Cyclohexane	NL	< 5 U	**2 J**	**2 J**	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.18 J**	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
Dibromochloromethane	50 g	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
Isopropylbenzene	5 s	< 5 U	**3 J**	**54**	< 1.0 U	**63**	**76**	< 1.0 U	< 1.0 U	< 1.0 U	**1.2**	**5.6**	**0.11 J**	**0.11 J**	**1.1**	NS	NS
Methyl acetate	NL	< 5 U	< 5 U	< 5 U	< 2.0 U	< 20 U	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 4.0 U	< 2.0 U	< 2.0 U	< 2.0 U	NS	NS
Methyl tert-butyl ether	10 g	< 5 U	**3 J**	**3 J**	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	**0.45 J**	**0.32 J**	< 1.0 U	< 2.0 U	**0.17 J**	**0.17 J**	**0.48 J**	NS	NS
Methylcyclohexane	NL	< 5 U	**6**	**2 J**	< 1.0 U	**2.0 J**	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NS	NS
Methylene chloride	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 2.0 U
Styrene	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	**1.2 J**	**260**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.9**	< 1.0 U	< 1.0 U	**76**	< 5.0 U	**0.59 J**
Tetrachloroethene	5 s	< 5 U	< 5 U	< 5 U	**0.76 J**	< 10 U	**0.64 J**	< 1.0 U	**91**	**11**	< 1.0 U	**1.8 J**	**0.41 J**	**0.37 J**	**26**	< 1.0 U	**2.4**
trans-1,2-Dichloroethene	5 s	< 5 U	< 5 U	< 5 U	**0.50 J**	**6.2 J**	**1.5 J**	< 1.0 U	**0.32 J**	**0.27 J**	< 1.0 U	**120 J**	< 1.0 U	< 1.0 U	**8.8**	< 1.0 U	**0.93 J**
trans-1,3-Dichloropropene	0.4 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 0.50 U	< 0.50 U
Trichloroethene	5 s	< 5 U	< 5 U	< 5 U	**1.2**	**7.4 J**	**76**	< 1.0 U	**19**	**1.9**	< 1.0 U	**90**	< 1.0 U	< 1.0 U	**40**	< 1.0 U	**3.0**
Trichlorofluoromethane	5 s	< 5 U	< 5 U	< 5 U	< 1.0 U	< 10 U	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 2.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Acetate	NL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 5.0 U	< 5.0 U
Vinyl chloride	2 s	< 5 U	< 5 U	**4 J**	**0.68 J**	**7.8 J**	**0.94 J**	< 1.0 U	**0.27 J**	< 1.0 U	< 1.0 U	< 2.0 U	**0.32 J**	**0.33 J**	< 1.0 U	< 1.0 U	< 1.0 U
Total VOCs (calculated)	NL	**23**	**86**	**13290**	**4.97**	**1228.6**	**4614.48**	**2.24**	**128.33**	**16.55**	**59.44**	**906.2**	**91**	**92.81**	**813.18**	ND	**25.72**

Notes are on the last page.

Table 5-11
Summary of Groundwater VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID			MW-16C	MW-17A	MW-17B	MW-17B	MW-17C	MW-18A	MW-18B	MW-18C	MW-19A	MW-19B	MW-19C
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]		8/1/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013
Sample ID			MW16C-080113	MW17A-73113	MW17B-73113	MW17D-73113	MW17C-73113	MW18A-73113	MW18B-73113	MW18C-73113	MW19A-73113	MW19B-73113	MW19C-73113
Sample Type			N	N	N	FD	N	N	N	N	N	N	N
Groundwater Zone			Deep	Shallow	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
BTEX (ug/L)													
Benzene	1	s	**2380**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**21.8**	< 0.50 U	< 0.50 U	< 0.50 U	**7380**	**15.7**
Ethylbenzene	5	s	**64.8**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**5.4**	< 1.0 U	< 1.0 U	< 1.0 U	**1090**	**0.53 J**
m+p-Xylene	NA		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
o-Xylene	NA		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	5	s	**62.6**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**7.5**	< 1.0 U	< 1.0 U	< 1.0 U	**79.2**	< 1.0 U
Total Xylenes	5	s	**466**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**17.2**	< 1.0 U	< 1.0 U	< 1.0 U	**896**	**0.65 J**
Total BTEX (calculated)	NL		**2973.4**	ND	ND	ND	ND	**51.9**	ND	ND	ND	**9445.2**	**16.88**
Other VOCs (ug/L)													
1,1,1-Trichloroethane	5	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5	s	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	1	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	5	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	5	s	**3.3**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	0.04	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	0.0006	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	0.6	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	1	s	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,3-Dichlorobenzene	3	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	3	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone	50	g	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**4.4 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Chloroethylvinyl ether	NL		R	R	R	R	R	R	R	R	R	R	R
2-Hexanone	50	g	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Methyl-2-pentanone	NL		< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**1.4 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	50	g	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 UJ	**147**	< 10 U	< 10 UJ	< 10 U	< 10 UJ	< 10 U
Acrolein	5	s	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Acrylonitrile	5	s	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Bromochloromethane	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	50	g	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	50	g	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	5	s	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Carbon disulfide	60	g	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**4.3 J**	< 5.0 U
Carbon tetrachloride	5	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	5	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	5	s	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Chloroform	7	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**0.59 J**	**1.7**	**5.8**	**5.0**	< 1.0 U	**7.8**	**3.9**
Chloromethane	5	s	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
cis-1,2-Dichloroethene	5	s	**393**	< 1.0 U	**1.5**	**1.4**	< 1.0 U	< 1.0 U	< 1.0 U	**6.1**	< 1.0 U	**17.7**	**21.1**
cis-1,3-Dichloropropene	0.4	s	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Cyclohexane	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	50	g	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl acetate	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether	10	g	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylcyclohexane	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene chloride	5	s	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	**0.59 J**	< 2.0 U	< 2.0 U	**0.53 J**	< 2.0 U	**1.3 J**	**0.41 J**
Styrene	5	s	**270**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	**2.3 J**	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	5	s	**312**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.3**	**53**	< 1.0 U	< 1.0 U	**23.7**
trans-1,2-Dichloroethene	5	s	**265**	< 1.0 U	**1.5**	**1.4**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**2.9**	**2.0**
trans-1,3-Dichloropropene	0.4	s	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Trichloroethene	5	s	**655**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**4.4**	< 1.0 U	**2.4**	**20**
Trichlorofluoromethane	5	s	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Acetate	NL		< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	2	s	**6.1**	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	**1.9**	< 1.0 U	**16.6**	< 1.0 U
Total VOCs (calculated)	NL		**4877.8**	ND	**3**	**2.8**	**1.18**	**208.7**	**7.1**	**70.93**	ND	**9498.2**	**87.99**

Notes are on the last page.

Table 5-11
Summary of Groundwater VOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Notes:
[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value
[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.
[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.
Bold indicates compound detected at a concentration greater than the reporting limit
Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.
U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
ug/L - micrograms per liter
mg/L - milligrams per liter
N - primary sample
FD - field duplicate sample
NL - Not Listed
NA - Not Analyzed
ND - Not Detected
NA - Not Sampled
Shallow zone wells - screen in 0 - 20 ft bgs interval
Intermediate zone wells - screen in 20 - 40 ft bgs interval
Deep zone wells - screen below 60 ft bgs

Table 5-12
Summary of Groundwater SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID			GW-01	PW-01	MW-01A	MW-01B	MW-01C	MW-02A	MW-02B	MW-03A	MW-03C	MW-04A	MW-04A	MW-04B	MW-04C	MW-04C	MW-05A	MW-05B	MW-06A	MW-06B	MW-07A	MW-07B		MW-08A	MW-08B	MW-08C	SB-20J	MW-09C
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]		9/27/2009	12/16/2009	12/14/2009	12/14/2009	12/14/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009	12/14/2009	12/15/2009	12/15/2009		8/11/2012	8/11/2012	8/11/2012	8/11/2012	2/6/2013
Sample ID			GW-1-092709	PW1-121609	MW1A-121409	MW1B-121409	MW1C-121409	MW2A-121609	MW2B-121609	MW3A-121509	MW3C-121509	MW4A-121609	MW4A-121609D	MW4B-121509	MW4C-121509	MW4C-121509D	MW5A-121609	MW5B-121609	MW6A-121509	MW6B-121409	MW7A-121509	MW7B-121509		MW-8A-081112	MW-8B-081112	MW-8C-081112	SB-20J-081112	MW-9C_020613
Sample Type			N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N	N	N	N	N	N		N	N	N	N	N
Groundwater Zone			Shallow [2]	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Shallow	Deep	Shallow	Shallow	Intermediate	Deep	Deep	Shallow	Intermediate	Shallow	Intermediate	Shallow	Intermediate		Shallow	Intermediate	Deep	Deep [3]	Deep
PAHs (ug/L)																												
2-Methylnaphthalene	NL		**4000**	**430 J**	< 10 U	< 10 U	**100 D**	< 10 U	**330 J**	**40**	**160 J**	**760**	NS	**220 J**	**150 J**	**120 J**	**220**	**1200 J**	< 10 U	< 10 U	**4 J**	**1000 J**		< 10 U	< 10 U	**240 D**	< 10 U	< 10 U
Acenaphthene	20	g	**59**	**67**	< 10 U	**2 J**	**7 J**	**4 J**	**140 J**	**28 J**	**20**	**16 J**	NS	**10**	**120 J**	**120 J**	**140**	**28**	< 10 U	< 10 U	**13**	**120 J**		< 10 U	**190**	**49**	< 10 U	< 10 U
Acenaphthylene	NL		**1300 J**	**88 J**	< 10 U	< 10 U	**33**	< 10 U	**7 J**	< 10 U	**39**	**200**	NS	**60**	**58**	**55**	**5 J**	**91 J**	< 10 U	< 10 U	< 10 U	**2 J**		< 10 U	< 10 U	**140**	< 10 U	< 10 U
Anthracene	50	g	**91 J**	**9 J**	< 10 U	< 10 U	**2 J**	**4 J**	**8 J**	**12**	**1 J**	**39 J**	NS	**15**	**13**	**13**	**13**	**21**	< 10 U	< 10 U	**2 J**	**8 J**		< 10 U	**9.2 J**	**6.2 J**	< 10 U	< 10 U
Benzo(a)anthracene	0.002	g	**44**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	**3 J**	< 10 U	< 10 U	< 10 U	**10**	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	**0.41 J**	< 1.0 U	< 1.0 U
Benzo(a)pyrene	ND		**35**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	**2 J**	< 10 U	< 10 U	< 10 U	**8 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Benzo(b)fluoranthene	0.002	g	**32**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	**2 J**	< 10 U	< 10 U	< 10 U	**5 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Benzo(ghi)perylene	NL		**6 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	**2 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Benzo(k)fluoranthene	0.002	g	**7 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	**4 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chrysene	0.002	g	**39**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	**2 J**	< 10 U	< 10 U	< 10 U	**9 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Dibenz(a,h)anthracene	NL		**2 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Fluoranthene	50	g	**86 J**	**3 J**	< 10 U	**1 J**	**2 J**	**3 J**	**3 J**	**7 J**	< 10 U	**30 J**	NS	**14**	**13**	**13**	**5 J**	**10**	< 10 U	< 10 U	**2 J**	**3 J**		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Fluorene	50	g	**190 J**	**36**	< 10 U	< 10 U	**7 J**	**13**	**42**	**22**	**7 J**	**120**	NS	**46**	**44**	**43**	**46**	**52**	< 10 U	< 10 U	**4 J**	**40**		< 10 U	**45**	**32**	< 10 U	< 10 U
Indeno(1,2,3-cd)pyrene	0.002	g	**6 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	**2 J**	< 10 U	< 10 U	< 10 U	< 10 U		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Naphthalene	10	g	**30000**	**3200**	< 10 U	< 10 U	**510 D**	< 10 U	**2200**	**68**	**2600 D**	**16000 D**	NS	**4100**	**1900 J**	**1300**	**380**	**8500**	< 10 U	< 10 U	**16**	**6800**		< 10 U	**160**	**3100 D**	< 10 U	< 10 U
Phenanthrene	50	g	**600 J**	**46**	< 10 U	< 10 U	< 10 U	**4 J**	**53**	**33**	**8 J**	**130**	NS	**61**	**66**	**65**	**58**	**88 J**	< 10 U	< 10 U	**6 J**	**53**		< 10 U	**46**	**35**	< 10 U	< 10 U
Pyrene	50	g	**130 J**	**4 J**	< 10 U	< 10 U	**2 J**	**4 J**	**6 J**	**7 J**	< 10 U	**18 J**	NS	**11**	**8 J**	**8 J**	**7 J**	**26**	< 10 U	< 10 U	**2 J**	**4 J**		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Total PAHs (calculated)	NL		**36627**	**3883**	ND	**3**	**663**	**32**	**2789**	**217**	**2835**	**17313**	NS	**4546**	**2372**	**1737**	**874**	**10056**	ND	ND	**49**	**8030**		ND	**450.2**	**3602.61**	ND	ND
SVOCs (ug/L)																												
1,1'-Biphenyl	5	s	**140 J**	**33**	< 10 U	< 10 U	**7 J**	**1 J**	**29**	**6 J**	**10**	< 100 U	NS	**18**	**15**	**14**	**21**	**46**	< 10 U	< 10 U	**1 J**	**38**		< 10 U	**4.0 J**	**31**	< 10 U	< 10 U
1,2,4,5-TETRACHLOROBENZENE	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
1,2,4-Trichlorobenzene	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
1,2-Dichlorobenzene	3	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
1,3-Dichlorobenzene	3	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
1,4-Dichlorobenzene	3	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS	NS
2,2'-oxybis(1-Chloropropane)	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ
2,3,4,6-Tetrachlorophenol	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2,4,5-Trichlorophenol	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2,4,6-Trichlorophenol	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2,4-Dichlorophenol	5	s	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2,4-Dimethylphenol	50	g	**83 J**	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3700 J**	NS	**600 J**	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2,4-Dinitrophenol	10	g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 30 U	< 30 U	< 30 U	< 30 U	< 31 U
2,4-Dinitrotoluene	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U
2,6-Dinitrotoluene	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U
2-Chloronaphthalene	10	g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Chlorophenol	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Methylphenol	NL		**7 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**9200 J**	NS	**600 J**	**16**	**19**	< 10 U	**11**	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
2-Nitroaniline	5	s	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 U	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 U	< 10 UJ	< 10 UJ		< 20 U	< 20 U	< 20 U	< 20 U	< 21 U
2-Nitrophenol	NL		< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
3,3'-Dichlorobenzidine	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 20 U	< 20 U	< 20 U	< 20 U	< 21 U
3-and 4-Methylphenol	NL		**35**	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	**44 J**	**23000 J**	NS	**1300 J**	**19 J**	**29 J**	< 10 UJ	**28 J**	< 10 UJ	< 10 UJ	< 10 UJ	**9 J**		NS	NS	NS	NS	NS
3-Nitroaniline	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 20 U	< 20 U	< 20 U	< 20 U	< 21 U
4,6-Dinitro-2-methylphenol	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 30 U	< 30 U	< 30 U	< 30 U	< 31 U
4-Bromophenyl phenyl ether	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
4-Chloro-3-methylphenol	NL		< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
4-Chloroaniline	5	s	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
4-Chlorophenyl phenyl ether	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
4-Methylphenol	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		< 10 U	< 10 U	**1.8 J**	< 10 U	< 10 U
4-Nitroaniline	5	s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 20 U	< 20 U	< 20 U	< 20 U	< 21 U
4-Nitrophenol	NL		< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U		< 30 U	< 30 U	< 30 U	< 30 U	< 31 U

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

Bold indicates compound detected at a concentration greater than the reporting limit

Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

N - primary sample

FD - field duplicate sample

NL - Not Listed

ND - Not Detected

NA - Not Sampled

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-12
Summary of Groundwater SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		GW-01	PW-01	MW-01A	MW-01B	MW-01C	MW-02A	MW-02B	MW-03A	MW-03C	MW-04A	MW-04A	MW-04B	MW-04C	MW-04C	MW-05A	MW-05B	MW-06A	MW-06B	MW-07A	MW-07B	MW-08A	MW-08B	MW-08C	SB-20J	MW-09C
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]	9/27/2009	12/16/2009	12/14/2009	12/14/2009	12/14/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009	12/14/2009	12/15/2009	12/15/2009	8/11/2012	8/11/2012	8/11/2012	8/11/2012	2/6/2013
Sample ID		GW-1-092709	PW1-121609	MW1A-121409	MW1B-121409	MW1C-121409	MW2A-121609	MW2B-121609	MW3A-121509	MW3C-121509	MW4A-121609	MW4A-121609D	MW4B-121509	MW4C-121509	MW4C-121509D	MW5A-121609	MW5B-121609	MW6A-121509	MW6B-121409	MW7A-121509	MW7B-121509	MW-8A-081112	MW-8B-081112	MW-8C-081112	SB-20J-081112	MW-9C_020613
Sample Type		N	N	N	N	N	N	N	N	N	N	FD	N	N	FD	N	N	N	N	N	N	N	N	N	N	N
Groundwater Zone		Shallow [2]	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Shallow	Deep	Shallow	Shallow	Intermediate	Deep	Deep	Shallow	Intermediate	Shallow	Intermediate	Shallow	Intermediate	Shallow	Intermediate	Deep	Deep [3]	Deep
SVOCs (ug/L) (continued)																										
Acetophenone	NL	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**3 J**	< 10 U	**1 J**	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Atrazine	7.5 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 U
Benzaldehyde	NL	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 UJ	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	**2100 J**	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ
bis(2-Chloroethoxy)methane	5 s	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
bis(2-Chloroethyl) ether	1 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
bis(2-Ethylhexyl) phthalate	5 s	**3 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	**1 J**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Butyl benzyl phthalate	50 g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Caprolactam	NL	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 UJ	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 Uj	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Carbazole	NL	**19**	**8 J**	< 10 U	**1 J**	**5 J**	< 10 U	**15**	**1 J**	**5 J**	**650**	NS	**170 J**	**72**	**75**	**14**	**20**	< 10 U	< 10 U	**3 J**	**22**	< 10 U	**10**	**13**	< 10 U	< 10 U
Dibenzofuran	NL	**24**	**6 J**	< 10 U	< 10 U	**2 J**	< 10 U	**7 J**	**2 J**	**1 J**	**120**	NS	**38**	**36**	**36**	< 10 U	< 10 U	< 10 U	< 10 U	**2 J**	**7 J**	< 10 U	**8.6 J**	**4.9 J**	< 10 U	< 10 U
Diethyl phthalate	50 g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Dimethyl phthalate	50 g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Di-n-butyl phthalate	50 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Di-n-octyl phthalate	50 g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Hexachlorobenzene	0.04 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Hexachlorobutadiene	0.5 s	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.1 U
Hexachlorocyclopentadiene	5 s	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 UJ	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Hexachloroethane	5 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isophorone	50 g	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 U	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 U	< 10 UJ	< 10 UJ	< 10 U
Nitrobenzene	0.4	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Nitrosodi-n-propylamine	NL	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 100 U	NS	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 UJ	< 10 U	< 10 UJ	< 10 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
N-Nitrosodiphenylamine	50 g	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Pentachlorophenol	1 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 100 U	NS	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 30 U	< 30 U	< 30 U	< 30 U	< 31 U
Phenol	1 s	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**6 J**	**2 J**	**7 J**	**24000 D**	NS	**810 J**	**21**	**27**	< 10 U	**45**	< 10 U	< 10 U	< 10 U	**68**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Total SVOCs (calculated)		**36938**	**3930**	ND	**4**	**677**	**36**	**2846**	**229**	**2902**	**77983**	NS	**8082**	**2551**	**1937**	**909**	**12307**	ND	ND	**55**	**8174**	ND	**472.8**	**3653.31**	ND	ND

Notes:

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[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

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Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

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J - The associated numerical value is an estimated quantity.

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D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.

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ug/L - micrograms per liter

mg/L - milligrams per liter

FD - field duplicate sample

NL - Not Listed

NA - Not Analyzed

NA - Not Sampled

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-12
Summary of Groundwater SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		MW-10C	MW-11B	MW-11C	MW-12B	MW-12B	MW-12C	MW-16A	MW-16B	MW-16C	MW-17A	MW-17B	MW-17B	MW-17C	MW-18A	MW-18B	MW-18C	MW-19A	MW-19B	MW-19C
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]	2/5/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	8/1/2013	8/1/2013	8/1/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013
Sample ID		MW-10C_020513	MW-11B_020413	MW-11C_020413	MW-12B_020413	DUPE 2-4_020413	MW-12C_020413	MW16A-080113	MW16B-080113	MW16C-080113	MW17A-73113	MW17B-73113	MW17D-73113	MW17C-73113	MW18A-73113	MW18B-73113	MW18C-73113	MW19A-73113	MW19B-73113	MW19C-73113
Sample Type		N	N	N	N	FD	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Groundwater Zone		Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
PAHs (ug/L)																				
2-Methylnaphthalene	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	**54**	< 2.2 U	< 2.0 U	**3.8**	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**6.5**	< 2.2 U	< 2.0 U	< 2.2 U	**65.2**	< 2.2 U
Acenaphthene	20 g	< 10 U	< 10 U	**16 J**	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	**6.9**	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**5.0**	**2.0 J**	< 2.0 U	< 2.2 U	**21.5**	**6.7**
Acenaphthylene	NL	< 10 U	< 10 U	**10 J**	< 10 U	< 10 U	**20 J**	< 2.2 U	< 2.0 U	**27.1**	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	**0.73 J**
Anthracene	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**0.61 J**	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Benzo(a)anthracene	0.002 g	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Benzo(a)pyrene	ND	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Benzo(b)fluoranthene	0.002 g	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Benzo(ghi)perylene	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Benzo(k)fluoranthene	0.002 g	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Chrysene	0.002 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Dibenz(a,h)anthracene	NL	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Fluoranthene	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**0.66 J**	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Fluorene	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**3.5**	**0.33 J**	< 2.0 U	< 2.2 U	**4.2**	< 2.2 U
Indeno(1,2,3-cd)pyrene	0.002 g	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Naphthalene	10 g	< 10 U	< 10 U	**390**	< 10 U	< 10 U	**610**	**0.40 J**	**9.4**	**1170**	< 2.2 U	< 2.2 U	< 2.2 U	**3.0**	**83.3**	**25.2**	< 2.0 U	< 2.2 U	**1400**	**1.8 J**
Phenanthrene	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	**0.42 J**	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**3.9**	< 2.2 U	< 2.0 U	< 2.2 U	**1.5 J**	**0.34 J**
Pyrene	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**0.41 J**	< 2.2 U	< 2.0 U	< 2.2 U	< 2.0 U	< 2.2 U
Total PAHs (calculated)	NL	ND	ND	**416**	ND	ND	**684**	**0.82**	**9.4**	**1207.8**	ND	ND	ND	**3**	**103.88**	**27.53**	ND	ND	**1492.4**	**9.57**
SVOCs (ug/L)																				
1,1'-Biphenyl	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4,5-TETRACHLOROBENZENE	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	5 s	NS	NS	NS	NS	NS	NS	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
1,2-Dichlorobenzene	3 s	NS	NS	NS	NS	NS	NS	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
1,3-Dichlorobenzene	3 s	NS	NS	NS	NS	NS	NS	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
1,4-Dichlorobenzene	3 s	NS	NS	NS	NS	NS	NS	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
2,2'-oxybis(1-Chloropropane)	5 s	< 10 U	< 10 U	< 21 UJ	< 10 U	< 10 U	< 52 UJ	< 5.4 UJ	< 5.1 UJ	< 5.1 UJ	< 5.6 UJ	< 5.4 UJ	< 5.6 UJ	< 5.2 UJ	< 5.1 UJ	< 5.4 UJ	< 5.1 UJ	< 5.6 UJ	< 5.1 UJ	< 5.4 UJ
2,3,4,6-Tetrachlorophenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2,4,6-Trichlorophenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2,4-Dichlorophenol	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2,4-Dimethylphenol	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	**6.8 J**	< 11 U	< 10 U	< 11 U	**78.5**	< 11 U
2,4-Dinitrophenol	10 g	< 31 U	< 31 U	< 62 U	< 31 U	< 31 U	< 150 U	< 22 U	< 20 U	< 20 U	< 22 U	< 22 U	R	R	< 20 U	< 22 U	< 20 U	< 22 U	< 20 U	< 22 U
2,4-Dinitrotoluene	5 s	< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 10 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2,6-Dinitrotoluene	5 s	< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 10 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2-Chloronaphthalene	10 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
2-Chlorophenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	R	R	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
2-Methylphenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	**1.9 J**	< 11 U	< 10 U	< 11 U	**60.5**	< 11 U
2-Nitroaniline	5 s	< 21 U	< 21 U	< 41 UJ	< 21 U	< 21 U	< 100 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
2-Nitrophenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
3,3'-Dichlorobenzidine	5 s	< 21 UJ	< 21 U	< 41 U	< 21 U	< 21 U	< 100 UJ	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
3-and 4-Methylphenol	NL	NS	NS	NS	NS	NS	NS	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	**6.7 J**	< 11 U	< 10 U	< 11 U	**51.7**	< 11 U
3-Nitroaniline	5 s	< 21 U	< 21 U	< 41 U	< 21 U	< 21 U	< 100 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
4,6-Dinitro-2-methylphenol	NL	< 31 U	< 31 U	< 62 U	< 31 U	< 31 U	< 150 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
4-Bromophenyl phenyl ether	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
4-Chloro-3-methylphenol	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
4-Chloroaniline	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
4-Chlorophenyl phenyl ether	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
4-Methylphenol	NL	< 10 U	**2.1 J**	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitroaniline	5 s	< 21 U	< 21 UJ	< 41 U	< 21 UJ	< 21 UJ	< 100 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
4-Nitrophenol	NL	< 31 U	< 31 U	< 62 UJ	< 31 U	< 31 U	< 150 U	< 22 U	< 20 U	< 20 U	< 22 U	< 22 U	R	R	< 20 U	< 22 U	< 20 U	< 22 U	< 20 U	< 22 U

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

Bold indicates compound detected at a concentration greater than the reporting limit

Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

N - primary sample

FD - field duplicate sample

NL - Not Listed

ND - Not Detected

NA - Not Sampled

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-12
Summary of Groundwater SVOC Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		MW-10C	MW-11B	MW-11C	MW-12B	MW-12B	MW-12C	MW-16A	MW-16B	MW-16C	MW-17A	MW-17B	MW-17B	MW-17C	MW-18A	MW-18B	MW-18C	MW-19A	MW-19B	MW-19C
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]	2/5/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	8/1/2013	8/1/2013	8/1/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013
Sample ID		MW-10C_020513	MW-11B_020413	MW-11C_020413	MW-12B_020413	DUPE 2-4_020413	MW-12C_020413	MW16A-080113	MW16B-080113	MW16C-080113	MW17A-73113	MW17B-73113	MW17D-73113	MW17C-73113	MW18A-73113	MW18B-73113	MW18C-73113	MW19A-73113	MW19B-73113	MW19C-73113
Sample Type		N	N	N	N	FD	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Groundwater Zone		Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
SVOCs (ug/L) (continued)																				
Acetophenone	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Atrazine	7.5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzaldehyde	NL	< 10 UJ	< 10 UJ	< 21 UJ	< 10 UJ	< 10 UJ	< 52 UJ	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy)methane	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
bis(2-Chloroethyl) ether	1 s	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
bis(2-Ethylhexyl) phthalate	5 s	< 10 U	< 10 U	**5.8 J**	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	**17.7**	< 2.2 U	< 2.1 U	< 2.0 U	**6.9**	< 2.0 U	< 2.2 U	**2.8**	< 2.2 U
Butyl benzyl phthalate	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Caprolactam	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	**0.34 J**	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**4.8**	**1.3 J**	< 2.0 U	< 2.2 U	**5.1**	**0.45 J**
Dibenzofuran	NL	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 2.2 U	< 2.0 U	< 2.0 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	**2.7**	**0.29 J**	< 2.0 U	< 2.2 U	**3.8**	< 2.2 U
Diethyl phthalate	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Dimethyl phthalate	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Di-n-butyl phthalate	50 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	**0.60 J**	< 5.6 U	< 5.4 U	< 5.6 U	**0.55 J**	**0.41 J**	< 5.4 U	**0.48 J**	< 5.6 U	< 5.1 U	< 5.4 U
Di-n-octyl phthalate	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Hexachlorobenzene	0.04 s	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Hexachlorobutadiene	0.5 s	< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 10 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Hexachlorocyclopentadiene	5 s	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	< 11 U	< 10 U	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
Hexachloroethane	5 s	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Isophorone	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Nitrobenzene	0.4	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
N-Nitrosodi-n-propylamine	NL	< 1.0 U	< 1.0 U	< 2.1 U	< 1.0 U	< 1.0 U	< 5.2 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
N-Nitrosodiphenylamine	50 g	< 10 U	< 10 U	< 21 U	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	< 5.1 U	< 5.6 U	< 5.4 U	< 5.6 U	< 5.2 U	< 5.1 U	< 5.4 U	< 5.1 U	< 5.6 U	< 5.1 U	< 5.4 U
Pentachlorophenol	1 s	< 31 U	< 31 U	< 62 U	< 31 U	< 31 U	< 150 U	< 11 U	< 10 U	< 10 U	< 11 U	< 11 U	R	R	< 10 U	< 11 U	< 10 U	< 11 U	< 10 U	< 11 U
Phenol	1 s	< 10 U	**3.7 J**	**3.1 J**	< 10 U	< 10 U	< 52 U	< 5.4 U	< 5.1 U	**0.88 J**	< 5.6 U	< 5.4 U	R	R	**81.4**	< 5.4 U	< 5.1 U	< 5.6 U	**148 J**	< 5.4 U
Total SVOCs (calculated)		ND	**5.8**	**424.9**	ND	ND	**684**	**0.82**	**9.4**	**1209.62**	ND	**17.7**	ND	**3.55**	**208.59**	**36.02**	**0.48**	ND	**1842.8**	**10.02**

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

Bold indicates compound detected at a concentration greater than the reporting limit

Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

mg/L - milligrams per liter

FD - field duplicate sample

NL - Not Listed

NA - Not Analyzed

NA - Not Sampled

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-13
Summary of Groundwater Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		NYSDEC Groundwater Guidance or Standard Value [1]		GW-01	PW-01	MW-01A	MW-01B	MW-01C	MW-02A	MW-02B	MW-03A	MW-03C	MW-04A	MW-04B	MW-04C	MW-04C	MW-05A	MW-05B	MW-06A
Sample Date				9/27/2009	12/16/2009	12/14/2009	12/14/2009	12/14/2009	12/16/2009	12/16/2009	12/15/2009	12/15/2009	12/16/2009	12/15/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009	12/15/2009
Sample ID				GW-1-092709	PW1-121609	MW1A-121409	MW1B-121409	MW1C-121409	MW2A-121609	MW2B-121609	MW3A-121509	MW3C-121509	MW4A-121609	MW4B-121509	MW4C-121509	MW4C-121509D	MW5A-121609	MW5B-121609	MW6A-121509
Sample Type				N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N	N
Groundwater Zone				Shallow [2]	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Shallow	Deep	Shallow	Intermediate	Deep	Deep	Shallow	Intermediate	Shallow
Metals (ug/L)																			
Aluminum		NL		**89800**	< 17.7 U	**422**	**22.5 J**	**81.7 J**	**50.0 J**	**240**	< 17.7 U	**74.7 J**	**170 J**	**932**	**80.5 J**	**93.2 J**	**94.2 J**	**605**	**3740**
Antimony		3	s	**11.3 J**	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	**6.0 J**	< 2.1 U	< 2.1 U	< 2.1 U	**2.5 J**	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	**3.9 J**
Arsenic		25	s	**42.1**	< 2.3 U	**6.1 J**	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	**49.3**	< 2.3 U	**65.1**	**50**	< 2.3 U	< 2.3 U	**8.4 J**	**6.7 J**	**14.4**
Barium		1000	s	**816**	**154 J**	**147 J**	**56.5 J**	**67.8 J**	**53.0 J**	**118 J**	**144 J**	**200**	**93.4 J**	**276**	**136 J**	**151 J**	**670**	**127 J**	**498**
Beryllium		3	g	**4.6 J**	< 0.26 U	**0.28 J**	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	**0.30 J**	< 0.26 U	< 0.26 U	< 0.26 U	< 0.26 U	**0.33 J**
Cadmium		5	s	**1.5 J**	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U	**0.83 J**
Calcium		NL		**308000**	**70300**	**317000**	**64500**	**98100**	**566000**	**42400**	**283000**	**113000**	**253000**	**55600**	**62800**	**69700**	**200000**	**115000**	**204000**
Chromium		50	s	**254 J**	< 0.44 U	**1.4 J**	< 0.44 U	**1.0 J**	**0.81 J**	**3.8 J**	< 0.44 U	< 0.44 U	**0.73 J**	**4.1 J**	< 0.44 U	< 0.44 U	**0.82 J**	**4.0 J**	**15.4**
Cobalt		NL		**77.3 J**	< 1.2 U	< 1.2 U	**2.2 J**	**2.8 J**	**3.5 J**	< 1.2 U	< 1.2 U	< 1.2 U	**2.2 J**	**2.0 J**	< 1.2 U	< 1.2 U	< 1.2 U	**2.4 J**	**4.2 J**
Copper		200	s	**291**	**23.4 J**	**11.2 J**	**3.4 J**	**2.8 J**	**16.6 J**	**4.2 J**	**2.0 J**	**2.6 J**	**4.6 J**	**247**	**2.5 J**	**2.6 J**	**2.4 J**	**4.4 J**	**67.7**
Dissolved Iron		NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron		300	s	**184000**	**6310**	**2570**	**2300**	**4950**	**17400**	**603**	**9620**	**11000**	**718**	**1030**	**2160**	**2440**	**4440**	**1960**	**39300**
Lead		25	s	**762 J**	< 1.8 U	**10**	< 1.8 U	**3.5**	**10.5**	**2.7 J**	< 1.8 U	< 1.8 U	**5.1**	**21.6**	**2.3 J**	**3.2**	**4.2**	< 1.8 U	**479**
Magnesium		35000	s	**125000 J**	**32700**	**21400**	**34200**	**27400**	**56900**	**53900**	**58100**	**56000**	**90900**	**61400**	**36100**	**40200**	**116000**	**126000**	**22600**
Manganese		300	s	**4190 J**	**5160**	**285**	**2050**	**8630**	**761**	**87.4**	**1080**	**1350**	**86.1**	**74.0**	**668**	**748**	**215**	**198**	**1180**
Mercury		0.7	s	**1.6 J**	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	**1.8**
Nickel		100	s	**155 J**	**2.2 J**	**3.8 J**	**20.4 J**	**6.8 J**	**18.0 J**	**1.8 J**	**4.1 J**	**1.8 J**	**4.2 J**	**39.5 J**	**6.7 J**	**7.1 J**	< 1.4 U	**2.4 J**	**8.1 J**
Potassium		NL		**65000**	**11700 J**	**56900 J**	**7780 J**	**9390 J**	**79900 J**	**59500 J**	**34900 J**	**17500 J**	**97500 J**	**229000 J**	**10300 J**	**11300 J**	**93900 J**	**125000 J**	**26900 J**
Selenium		10	s	**14.0 J**	< 2.5 U	**4.3 J**	< 2.5 UN	**2.9 J**	< 2.5 U	< 2.5 U	< 2.5 UN	< 2.5 UN	**5.8 J**	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	**2.9 J**
Silver		50	s	**1.6 J**	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Sodium		20000	s	**327000**	**166000**	**245000**	**253000**	**178000**	**151000**	**458000**	**89900**	**393000**	**192000**	**1180000**	**137000**	**150000**	**175000**	**1040000**	**191000**
Thallium		0.5	g	**7.1 J**	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	**3.9 J**
Vanadium		NL		**281**	< 1.4 U	**6.6 J**	< 1.4 U	< 1.4 U	**2.2 J**	**7.1 J**	< 1.4 U	< 1.4 U	**4.7 J**	**18.0 J**	< 1.4 U	< 1.4 U	**4.3 J**	**9.9 J**	**12.8 J**
Zinc		2000	g	**815 J**	**11.8 J**	**54.1**	**34.6**	**16.0 J**	**181**	**17.4 J**	**14.1 J**	**10.3 J**	**22.8**	**166**	**13.6 J**	**14.7 J**	**14.2 J**	**17.6 J**	**387**
Cyanide (ug/L)																			
Total Cyanide		200	s	**12.1**	< 10.0 U	< 10 U	< 10 U	< 10 U	**109**	**11.4**	**107**	**47.0**	**408**	**72.4**	**10.6**	< 10.0 U	**64.8**	**202 E**	**56.9**

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

Bold indicates compound detected at a concentration greater than the reporting limit

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R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

N - primary sample

FD - field duplicate sample

NL - Not Listed

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-13
Summary of Groundwater Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID		MW-06B	MW-07A	MW-07B	MW-08A	MW-08B	MW-08C	SB-20J	MW-09C	MW-10C	MW-11B	MW-11C	MW-12B	MW-12B	MW-12C	MW-16A
Sample Date	NYSDEC Groundwater Guidance or Standard Value [1]	12/14/2009	12/15/2009	12/15/2009	8/11/2012	8/11/2012	8/11/2012	8/11/2012	2/6/2013	2/5/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	2/4/2013	8/1/2013
Sample ID		MW6B-121409	MW7A-121509	MW7B-121509	MW-8A-081112	MW-8B-081112	MW-8C-081112	SB-20J-081112	MW-9C_020613	MW-10C_020513	MW-11B_020413	MW-11C_020413	MW-12B_020413	DUPE 2-4_020413	MW-12C_020413	MW16A-080113
Sample Type		N	N	N	N	N	N	N	N	N	N	N	N	FD	N	N
Groundwater Zone		Intermediate	Shallow	Intermediate	Shallow	Intermediate	Deep	Deep [3]	Deep	Deep	Intermediate	Deep	Intermediate	Intermediate	Deep	Shallow
Metals (ug/L)																
Aluminum	NL	**1070**	**70.0 J**	**69.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	3 s	< 2.1 U	< 2.1 U	< 2.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	25 s	< 2.3 U	< 2.3 U	< 2.3 U	**5.9**	< 5.0 U	< 5.0 U	NS	< 5.0 U	< 5.0 U	**6.2**	**5.8**	< 5.0 U	< 5.0 U	**5.3**	NS
Barium	1000 s	**159 J**	**188 J**	**197 J**	**41.4 J**	**88.2 J**	**116 J**	NS	**48.2 J**	**165 J**	**1160**	**109 J**	**357**	**362**	**16.7 J**	NS
Beryllium	3 g	**0.95 J**	< 0.26 U	< 0.26 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	5 s	**0.77 J**	< 0.34 U	< 0.34 U	< 5.0 U	< 5.0 U	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NS
Calcium	NL	**22400**	**298000**	**147000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50 s	**7.4 J**	< 0.44 U	**1.8 J**	< 10.0 U	< 10.0 U	< 10.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NS
Cobalt	NL	**2.6 J**	**1.5 J**	< 1.2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	200 s	**11.4 J**	**2.7 J**	**2.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	NL	NS	NS	NS	NS	< 150 U	< 150 U	< 150 U	NS	NS	NS	NS	NS	NS	NS	NS
Iron	300 s	**2470**	**460**	**3420**	NS	< 150 U	**5120**	**5220**	NS	NS	NS	NS	NS	NS	NS	NS
Lead	25 s	**11.1**	**3.3**	< 1.8 U	**8.5**	< 5.0 U	< 5.0 U	NS	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NS
Magnesium	35000 s	**33500**	**64600**	**79200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	300 s	**93.0**	**573**	**368**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.7 s	< 0.10 U	< 0.10 U	< 0.10 U	< 0.20 U	< 0.20 U	< 0.20 U	NS	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	NS
Nickel	100 s	**5.7 J**	**4.1 J**	**1.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NL	**55800 J**	**53500 J**	**59400 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	10 s	< 2.5 U	< 2.5 U	< 2.5 U	< 10.0 U	< 10.0 U	< 10.0 U	NS	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NS
Silver	50 s	< 0.83 U	< 0.83 U	< 0.83 U	< 10.0 U	< 10.0 U	< 10.0 U	NS	**5.7 J**	**1.3 J**	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	< 10.0 U	NS
Sodium	20000 s	**699000**	**188000**	**497000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	0.5 g	< 3.2 U	< 3.2 U	< 3.2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NL	**11.4 J**	**4.9 J**	**15.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	2000 g	**52.0**	**16.7 J**	**11.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide (ug/L)																
Total Cyanide	200 s	**34.3**	**266**	**18.0**	**82**	**69**	**18**	NS	**6.0 J**	**6.5 J**	**45 J**	< 10 UJ	**23 J**	**26 J**	**7.4 J**	< 10 U

Notes:
[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value
[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.
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UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
ug/L - micrograms per liter
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FD - field duplicate sample
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Table 5-13
Summary of Groundwater Metals and Cyanide Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID	NYSDEC Groundwater Guidance or Standard Value [1]		MW-16B	MW-16C	MW-17A	MW-17B	MW-17B	MW-17C	MW-18A	MW-18B	MW-18C	MW-19A	MW-19B	MW-19C
Sample Date			8/1/2013	8/1/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013
Sample ID			MW16B-080113	MW16C-080113	MW17A-73113	MW17B-73113	MW17D-73113	MW17C-73113	MW18A-73113	MW18B-73113	MW18C-73113	MW19A-73113	MW19B-73113	MW19C-73113
Sample Type			N	N	N	N	FD	N	N	N	N	N	N	N
Groundwater Zone			Intermediate	Deep	Shallow	Intermediate	Intermediate	Deep	Shallow	Intermediate	Deep	Shallow	Intermediate	Deep
Metals (ug/L)														
Aluminum	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	3	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	25	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	1000	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	3	g	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	5	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cobalt	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	200	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dissolved Iron	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	300	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	25	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Magnesium	35000	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	300	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.7	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	100	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	10	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	50	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	20000	s	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Thallium	0.5	g	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NL		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	2000	g	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cyanide (ug/L)														
Total Cyanide	200	s	< 10 U	**24**	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	**32**	**100**	< 10 U	**75**	**14**

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

[2] Sample GW-1-092709 was collected from a temporary well screen set at SB-14B from 5-15 ft bgs.

[3] Sample SB-20J-081112 collected on 8/11/2012 was a groundwater grab sample from boring SB-20J.

Bold indicates compound detected at a concentration greater than the reporting limit

Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

N - primary sample

FD - field duplicate sample

NL - Not Listed

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-14
Summary of Groundwater PCBs, Pesticides, and Herbicides Analytical Results
Former Equity Works MGP Site
Brooklyn, New York

Location ID	NYSDEC Groundwater Guidance or Standard Value [1]		MW-01A	MW-01B	MW-01C	MW-03A	MW-03C	MW-04A	MW-04A
Sample Date			12/14/2009	12/14/2009	12/14/2009	12/15/2009	12/15/2009	12/16/2009	12/16/2009
Sample ID			MW1A-121409	MW1B-121409	MW1C-121409	MW3A-121509	MW3C-121509	MW4A-121609	MW4A-121609D
Sample Type			N	N	N	N	N	N	FD
Groundwater Zone			Shallow	Intermediate	Deep	Shallow	Deep	Shallow	Shallow
PCBs (ug/L)									
Aroclor 1016	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1221	NL		< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Aroclor 1232	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1242	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1248	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1254	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1260	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1262	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Aroclor 1268	NL		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
PCB (Total) (calculated)	0.09	s	ND	ND	ND	ND	ND	ND	ND
Pesticides (ug/L)									
Aldrin	ND	s	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ
Alpha-BHC	0.01	s	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Beta-BHC	0.04	s	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 UJ	**0.12 NJ**	**0.12 NJ**
Chlordane	0.05	s	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ
Chlordane, trans-	NL		< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ
DDD,4,4'-	0.3	s	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 U	< 0.10 U	**0.18 NJ**	**0.22 J**
DDE,4,4'-	0.2	s	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	**0.24**	**0.23**
DDT,4,4'-	0.2	s	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 U	< 0.10 U	**0.071 J**	< 0.10 U
Delta-BHC	0.04	s	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Dieldrin	0.004	s	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Endosulfan I	NL		< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Endosulfan II	NL		< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Endosulfan sulfate	NL		< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	**0.093 J**	< 0.10 U
Endrin	ND	s	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ
Endrin aldehyde	5	s	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U
Endrin ketone	5	s	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	**0.093 J**
Gamma BHC - Lindane	0.05	s	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Heptachlor	0.04	s	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 U
Heptachlor Epoxide	0.03	s	< 0.050 U	< 0.050 U	< 0.050 U	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ	< 0.050 UJ
Methoxychlor	35	s	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 U	< 0.50 U	**0.46 J**	< 0.50 U
Toxaphene	0.06	s	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U
Herbicides (ug/L)									
2,4,5-TP (Silvex)	0.26	s	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
2,4-D	50	s	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	**0.67 J**
2,4-DB	NL		< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	R	**0.94 NJ**
T,2,4,5-	35	s	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Notes:

[1] Guidance or Standard Values - NYSDEC, Division of Water, TOGS (1.1.1) - 6 NYCRR 703.5 [NYSDEC, 1998]. s = Standard Value / g = Guidance Value

Bold indicates compound detected at a concentration greater than the reporting limit

Shaded/highlighted indicates exceedance of the NYSDEC Groundwater Guidance or Standard Value.

U - The material was analyzed for but not detected at, or above, the reporting limit. The associated numerical value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

D - Detected concentration from diluted analytical run. Concetration corrected for dilution factor.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

ug/L - micrograms per liter

mg/L - milligrams per liter

N - primary sample

FD - field duplicate sample

NL - Not Listed

ND - Not Detected

Shallow zone wells - screen in 0 - 20 ft bgs interval

Intermediate zone wells - screen in 20 - 40 ft bgs interval

Deep zone wells - screen below 60 ft bgs

Table 5-15
Summary of NAPL Physical Characteristics
Former Equity Works MGP Site
Brooklyn, New York

Well ID	Physical Properties					
	Density (gm/ml)	Viscosity (centipoise)	Surface Tension Air/Water (dynes/cm)	Interfacial Tension NAPL/Water (dynes/cm)*	Surface Tension Air/NAPL (dynes/cm)	Temperature of Measure-ments (^{o}F)
PW-1**	1.0638	33.9	NA	NA	NA	60
MW-3B	1.1072	570	NA	NA	NA	60
MW-14B	NA	NA	NA	NA	NA	NA
MW-15B	1.0945	2840	56.4	17.8	36.2	60
MW-15B	1.0945	2840	56.4	17.8	37.2	60

Notes:
NA - Not Analyzed
gm/ml - grams per milliliter
cm - centimeter
°F - Fahrenheit
ft - feet
ft^2 - feet squared
gal - gallon
gpd - gallons per day
DNAPL - dense non-aqueous petroleum liquid
* This analysis was done with the NAPL on the bottom and water on top, the reverse of the usual process.

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Table 5-16
Soil Vapor Intrusion Evaluation Results
Former Equity Works MGP Site
Brooklyn, NY

		Sampling Event	NOVEMBER 2009 SAMPLING EVENT					MARCH 2010 SAMPLING EVENT						AUGUST 2010 SAMPLING EVENT			FEBRUARY 2011 SAMPLING EVENT				MARCH 2015 SAMPLING EVENT							
		Location		222 Maspeth Ave		252 Maspeth Ave			222 Maspeth Ave			252 Maspeth Ave			222 Maspeth Ave			222 Maspeth					1 Rewe St (north end)			1 Rewe St (south end)		7-9 Rewe St	
		Sample Source	Ambient Air	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Ambient Air	Indoor Air	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Ambient Air	Indoor Air	Soil Vapor	Ambient Air	Indoor Air	Indoor Air	Soil Vapor	Ambient Air	Indoor Air	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor	Indoor Air	Soil Vapor
		Sample Location	AMB	IA-1 [b]	SV-1 [c]	IA-2 [d]	SV-2 [e]	AMB-1	IA-1 [b]	IA-1 [b]	SV-1 [c]	IA-2 [d]	SV-2 [e]	AMB	IA-1 [b]	SV-1 [c]	AMB-1	IA-1 [b]	IA-1-Dup [b]	SV-1 [c]	OA-1	IA-A	IA-A	SG-A	IA-B	SG-B	IA-C	SG-C
		Sample ID	AMB-111709	IA-1-111709	SV-1-111709	IA-2-111709	SV-2-111709	AMB-1	IA-1	IA-1 Dup	SV-1	IA-2	SV-2	AMB-1-082810	IA-1-082810	SV-1-082810	AMB1	IA1	IA1 DUP	SS1	OA-1-032515	IA-A-032515	AIR-DUP-032515	SG-A-032515	IA-B-032515	SG-B-032515	IA-C-032515	SG-C-032515
		Sampling Date	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	3/14/2010	3/14/2010	3/14/2010	3/14/2010	3/14/2010	3/14/2010	8/28/2010	8/28/2010	8/28/2010	2/12/2011	2/12/2011	2/12/2011	2/12/2011	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015	3/25/2015
Compound (µg/m³)	CAS No.	Typical Background Indoor Air Concentrations (Non-Residential)[a]																										
1,1,1-Trichloroethane	71-55-6	20.6	< 0.873 U	< 0.873 U	**3.93**	< 0.873 U	< 8.73 U	1.0 U	0.89 U	0.89 U	**1.7**	0.86 U	4.5 U	< 0.873	< 0.873	**7.75**	0.873 U	0.873 U	0.873 U	**2.78**	< 1.1 U	< 1.1 U	< 1.1 U	**20**	< 1.1 U	**1.6**	< 1.1 U	**0.49 J**
1,1,2,2-Tetrachloroethane	79-34-5	NL	< 1.10 U	< 1.10 U	< 1.10 U	< 1.10 U	< 11.0 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	5.6 U	< 1.10	< 1.10	< 1.10	1.10 U	1.10 U	1.10 U	1.10 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	3.5	< 1.23 U	< 1.23 U	< 1.23 U	< 1.23 U	< 12.3 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	6.3 U	< 1.23	< 1.23	< 1.23	1.23 U	1.23 U	1.23 U	**1.53 J**	**0.51 J**	**0.47 J**	**0.49 J**	**1.4 J**	**0.54 J**	**1.0 J**	**0.48 J**	**0.50 J**
1,1,2-Trichloroethane	79-00-5	1.5	< 0.873 U	< 0.873 U	< 0.873 U	< 0.873 U	< 8.73 U	1.0 U	0.89 U	0.89 U	0.89 U	0.86 U	4.5 U	< 0.873	< 0.873	< 0.873	0.873 U	0.873 U	0.873 U	0.873 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
1,1-Dichloroethane	75-34-3	0.7	< 0.648 U	< 0.648 U	< 0.648 U	< 0.648 U	< 6.48 U	0.76 U	0.66 U	0.66 U	0.66 U	0.64 U	3.3 U	< 0.648	< 0.648	< 0.648	0.648 U	0.648 U	0.648 U	0.648 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U	< 0.81 U
1,1-Dichloroethene	75-35-4	1.4	< 0.634 U	< 0.634 U	< 0.634 U	< 0.634 U	< 6.34 U	0.74 U	0.65 U	0.65 U	0.65 U	0.63 U	3.2 U	< 0.634	< 0.634	< 0.634	0.634 U	0.634 U	0.634 U	0.634 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
1,2,3-Trimethylbenzene	526-73-8	NL	**2.61 J**	**3.20 J**	**26.2**	**1.43 J**	**8.36 J**	ND	ND	ND	**9.1 NJ**	ND	ND	**4.03**	**21.9**	**5.31**	3.93 U	**1.72 J**	**2.61 J**	3.93 U	< 0.98 U	< 0.98 U	< 0.98 U	**1.6**	< 0.98 U	**1.3**	< 0.98 U	< 0.98 U
1,2,4,5-Tetramethylbenzene	95-93-2	NL	< 4.39 U	< 4.39 U	**3.07 J**	< 4.39 U	< 43.9 U	ND	ND	ND	**39 NJ**	ND	ND	< 4.39	**1.21**	**0.878**	4.39 UJ	4.39 UJ	4.39 UJ	4.39 UJ	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
1,2,4-Trichlorobenzene	120-82-1	6.8	< 5.94 U	< 5.94 U	< 5.94 U	< 5.94 U	< 59.4 U	6.9 U	6.1 U	6.1 U	6.1 U	5.9 U	30 U	< 5.94	< 5.94	< 5.94	5.94 UJ	5.94 UJ	5.94 UJ	5.94 UJ	< 7.4 U	< 7.4 U	< 7.4 U	< 7.4 U	< 7.4 U	< 7.4 U	< 7.4 U	< 7.4 U
1,2,4-Trimethylbenzene	95-63-6	9.5	**7.67**	**8.70**	**92.9**	**5.41**	**35.4**	0.92 U	**5.3**	**5.0**	**17**	**1.6**	**17**	**11.5**	**96.8**	**11.7**	**1.47**	**7.03 J**	**10 J**	0.786 U	**0.50 J**	**2.2**	**1.3**	**3.4**	**1.5**	**2.2**	**1.4**	**1.0**
1,2-Dibromoethane	106-93-4	1.5	< 1.23 U	< 1.23 U	< 1.23 U	< 1.23 U	< 12.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.2 U	6.3 U	< 1.23	< 1.23	< 1.23	1.23 U	1.23 U	1.23 U	1.23 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
1,2-Dichlorobenzene	95-50-1	1.2	< 0.962 U	< 0.962 U	< 0.962 U	< 0.962 U	< 9.62 U	1.1 U	0.99 U	0.99 U	0.99 U	0.95 U	4.9 U	< 0.962	< 0.962	< 0.962	0.962 U	0.962 U	0.962 U	0.962 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
1,2-Dichloroethane	107-06-2	0.9	< 0.635 U	< 0.635 U	< 0.635 U	< 0.635 U	< 6.35 U	0.76 U	0.66 U	0.66 U	0.66 U	0.64 U	3.3 U	< 0.648	< 0.648	< 0.648	0.648 U	0.648 U	0.648 U	0.648 U	< 0.81 U	**0.38 J**	**0.54 J**	**0.20 J**	**0.62 J**	**0.27 J**	< 0.81 U	< 0.81 U
1,2-Dichloropropane	78-87-5	1.6	< 0.739 U	< 0.739 U	< 0.739 U	< 0.739 U	< 7.39 U	0.86 U	0.76 U	0.76 U	0.76 U	0.73 U	3.8 U	< 0.739	< 0.739	< 0.739	0.739 U	0.739 U	0.739 U	0.739 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U
1,2-Dichlorotetrafluoroethane	76-14-2	6.8	< 1.12 U	< 1.12 U	< 1.12 U	< 1.12 U	< 11.2 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	< 1.12	< 1.12	< 1.12	1.12 U	1.12 U	1.12 U	1.12 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	**0.39 J**	< 1.4 U	< 1.4 U
1,3,5-Trimethylbenzene	108-67-8	3.7	**2.21**	**1.87**	**23.5**	**1.33**	**8.85**	0.92 U	**1.5**	**1.3**	**4.9**	0.78 U	**6.9**	**3.88**	**31.6**	**3.54**	0.787 U	**2.11 J**	**3.29 J**	0.787 U	< 0.98 U	**0.61 J**	**0.34 J**	**1.0**	**0.39 J**	**0.67 J**	**0.37 J**	< 0.98 U
1,3-Butadiene	106-99-0	3	< 1.77 U	< 1.77 U	< 1.77 U	**0.420 J**	< 17.7 U	0.41 U	0.36 U	0.36 U	0.36 U	0.35 U	1.8 U	< 1.77	< 1.77	< 1.77	1.77 U	1.77 U	1.77 U	1.77 U	< 0.88 U	**0.35 J**	< 0.88 U	**0.74 J**	< 0.88 U	**0.56 J**	< 0.88 U	**3.7**
1,3-Dichlorobenzene	541-73-1	2.4	< 0.962 U	< 0.962 U	< 0.962 U	< 0.962 U	< 9.62 U	1.1 U	0.99 U	0.99 U	0.99 U	0.95 U	4.9 U	< 0.962	< 0.962	< 0.962	0.962 U	0.962 U	0.962 U	0.962 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
1,4-Dichlorobenzene	106-46-7	5.5	< 0.962 U	**1.14**	**1.02**	< 0.962 U	< 9.62 U	1.1 U	0.99 U	0.99 U	0.99 U	0.95 U	4.9 U	**3.73**	**4.33**	**1.32**	0.962 U	**1.44**	**1.5**	0.962 U	< 1.2 U	**0.70 J**	< 1.2 U	**0.54 J**	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
1,4-Dioxane	123-91-1	NL	< 2.88 U	< 2.88 U	< 2.88 U	< 2.88 U	< 28.8 U	0.67 U	0.59 U	0.59 U	0.59 U	0.57 U	3.0 U	< 2.88	< 2.88	< 2.88	2.88 U	2.88 U	2.88 U	2.88 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
1-Methylnaphthalene	90-12-0	NL	< 4.65 U	**1.16 J**	**3.08 J**	< 4.65 U	< 46.5 U	ND	ND	ND	ND	ND	ND	< 4.65	**8.43**	**1.57**	4.65 U	4.65 U	4.65 U	4.65 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U
2,2,4-Trimethylpentane	540-84-1	NL	< 3.74 U	< 3.74 U	< 3.74 U	**4.62**	< 37.4 U	4.4 U	3.8 U	3.8 U	3.8 U	3.7 U	19 U	**0.841**	**1.45**	< 3.74	3.74 U	**2.99 J**	**4.91**	**2.52 J**	**0.69 J**	**1.3 J**	**1.0 J**	**0.79 J**	**1.1 J**	**0.54 J**	**0.88 J**	**0.42 J**
2,3-Dimethylpentane	565-59-3	NL	**0.943 J**	**0.984 J**	< 3.28 U	**2.54 J**	< 32.8 U	3.8 U	3.4 U	3.4 U	3.4 U	3.2 U	17 U	**0.902**	**1.02**	< 3.28	3.28 U	3.28 U	**0.82 J**	3.28 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	< 0.82 U	**1.9**	< 0.82 U
2-Butanone	78-93-3	12	**5.84**	**7.93**	**1.47 J**	**4.45**	**15.3 J**	**2.4**	**7.3**	**6.9**	**0.88**	**1.7**	2.4 U	**8.35**	**15**	**4.75**	**2.04 J**	**4.78**	**4.19**	**0.472 J**	**2.7 J**	**10**	**5.8**	**25**	**3.4**	**4.7**	**3.9**	**1.9 J**
2-Chlorotoluene	95-49-8	NL	< 0.828 U	< 0.828 U	< 0.828 U	< 0.828 U	< 8.28 U	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS	NS	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
2-Hexanone	591-78-6	NL	< 3.28 U	< 3.28 U	**1.80 J**	< 3.28 U	< 32.8 U	3.8 U	3.4 U	3.4 U	3.4 U	3.2 U	17 U	**0.655**	**0.860**	< 3.28	3.28 U	3.28 U	3.28 U	3.28 U	< 2.0 U	**1.3 J**	**0.47 J**	**0.54 J**	< 2.0 U	**0.54 J**	< 2.0 U	< 2.0 U
2-Methylnaphthalene	91-57-6	NL	< 4.65 U	**0.989 J**	**8.43 J**	< 4.65 U	< 46.5 U	ND	ND	ND	ND	ND	ND	< 4.65 UJ	**12.7 J**	**1.74 J**	4.65 UJ	4.65 UJ	4.65 UJ	4.65 UJ	< 15 UJ	< 15 U	< 15 UJ	< 15 UJ	< 15 UJ	< 15 UJ	< 15 UJ	< 15 UJ
2-Methylpentane	107-83-5	NL	**3.88**	**2.36 J**	**0.599 J**	**21.1**	< 28.2 U	3.3 U	2.9 U	2.9 U	2.9 U	**3.1**	14 U	**2.22**	**2.36**	**0.564**	**0.987 J**	**0.987 J**	**1.16 J**	2.82 U	**0.92**	**2.2**	**2.0**	**1.7**	**2.1**	**1.1**	**5.2**	**1.5**
2-Propanol	67-63-0	250	**13.3**	**13.2**	**7.33**	**17.4**	**7.13 J**	2.3 U	**13**	**12**	2.0 U	1.9 U	10 U	**9.39**	**137**	**9.93**	**7.05**	**20.3**	**21.2**	**1.47 J**	**2.2 J**	**190**	**6.4**	**110**	**5.8**	**21**	**5.2**	**5.0**
4-Ethyltoluene	622-96-8	3.6	**2.41 J**	**3.24 J**	**24.9**	**1.43 J**	**13.3 J**	0.92 U	**3.4**	**3.2**	**8.3**	**1.4**	**17**	**3.24**	**22.6**	**2.80**	3.93 U	**1.16 J**	**2.56 J**	3.93 U	< 2.0 U	**1.1 J**	**0.58 J**	**1.8 J**	**0.48 J**	**0.85 J**	**0.55 J**	**0.43 J**
4-Methyl-2-pentanone	108-10-1	6	**3.36**	**3.81**	< 3.28 U	< 3.28 U	< 32.8 U	**0.89**	**0.69**	**0.70**	0.67 U	0.65 U	3.4 U	**4.55**	**4.43**	**1.11**	3.28 U	**2.38 J**	**2.83 J**	3.28 U	**0.26 J**	**1.8 J**	**0.95 J**	**1.6 J**	**0.85 J**	**0.91 J**	**0.70 J**	**0.72 J**
Acetone	67-64-1	98.9	**35.6**	**38.5**	**9.74**	**18.3**	**139**	**33**	**23**	**20**	**4.3**	**17**	9.7 U	**50.1**	**90.5**	**17.2**	**19.2**	**38.1 J**	**66.7 J**	**4.20 J**	**20**	**63**	**35 J**	**300**	**16 J**	**45**	**33**	**14**
Benzene	71-43-2	9.4	**1.21**	**1.92**	**3.71**	**4.95**	**8.31**	0.60 U	1.0	**0.94**	0.52 U	**1.2**	2.6 U	**0.703**	**1.12**	< 0.511	**1.05**	**1.12**	**1.34**	0.511 U	**1.0**	**1.7**	**1.6**	**4.0**	**1.8**	**4.2**	**1.7**	**5.6**
Benzyl chloride	100-44-7	6.8	NS	NS	NS	NS	NS	0.97 U	0.85 U	0.85 U	0.85 U	0.82 U	4.2 U	< 0.828	< 0.828	< 0.828	0.828 U	0.828 U	0.828 U	0.828 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Bromodichloromethane	75-27-4	NL	< 5.36 U	< 5.36 U	< 5.36 U	< 5.36 U	< 53.6 U	1.2 U	1.1 U	1.1 U	1.1 U	1.0 U	5.5 U	< 5.36	< 5.36	**3.22**	5.36 U	5.36 U	5.36 U	5.36 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Bromoform	75-25-2	NL	< 8.27 U	< 8.27 U	< 8.27 U	< 8.27 U	< 82.7 U	1.9 U	1.7 U	1.7 U	1.7 U	1.6 U	8.5 U	< 8.27	< 8.27	< 8.27	8.27 U	8.27 U	8.27 U	8.27 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Bromomethane	74-83-9	1.7	< 0.621 U	< 0.621 U	< 0.621 U	< 0.621 U	< 6.21 U	**0.98**	0.64 U	0.64 U	0.64 U	0.61 U	3.2 U	< 0.621	< 0.621	< 0.621	0.622 U	0.622 U	0.622 U	0.622 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U	< 0.78 U
Carbon disulfide	75-15-0	4.2	< 2.49 U	< 2.49 U	**1.99 J**	< 2.49 U	**27.4**	2.9 U	2.6 U	2.6 U	2.6 U	2.5 U	13 U	**0.654**	**1.43**	**7.54**	2.49 U	2.49 U	2.49 U	**1.03 J**	< 1.6 U	< 1.6 U	< 1.6 U	**8.2**	< 1.6 U	**0.68 J**	**0.73 J**	**0.90 J**
Carbon tetrachloride	56-23-5	1.3	< 1.01 U	< 1.01 U	< 1.01 U	< 1.01 U	< 10.1 U	1.2 U	1.0 U	1.0 U	1.0 U	0.99 U	5.2 U	**72.3**	**43.1**	**15.5**	1.01 U	1.01 U	1.01 U	1.01 U	**0.50 J**	**0.51 J**	**0.52 J**	< 1.3 UJ	**0.52 J**	**0.25 J**	**0.43 J**	**0.33 J**
Chlorobenzene	108-90-7	0.9	< 0.737 U	< 0.737 U	< 0.737 U	< 0.737 U	< 7.37 U	0.86 U	0.76 U	0.76 U	0.76 U	0.73 U	3.8 U	< 0.737	< 0.737	< 0.737	0.737 U	0.737 U	0.737 U	0.737 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U
Chloroethane	75-00-3	1.1	< 0.422 U	< 0.422 U	< 0.422 U	< 0.422 U	< 4.22 U	0.49 U	0.43 U	0.43 U	0.43 U	0.42 U	2.2 U	< 0.422	< 0.422	< 0.422	0.422 U	0.422 U	0.422 U	0.422 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.53 U
Chloroform	67-66-3	1.1	< 0.781 U	< 0.781 U	< 0.781 U	< 0.781 U	**24.9**	0.91 U	0.80 U	0.80 U	**1.2**	0.77 U	4.0 U	< 0.781	**2.1**	**23.5**	0.781 U	**1.12 J**	**1.17 J**	**5.03 J**	< 0.98 U	**0.23 J**	**0.19 J**	**1.7**	**0.22 J**	**0.97**	< 0.98 U	< 0.98 U
Chloromethane	74-87-3	3.7	**1.26**	**1.16**	< 0.330 U	**0.991**	< 3.30 U	**1.2**	**0.80**	**1.2**	0.34 U	**0.85**	1.7 U	**0.867**	**1.49**	< 0.330	0.330 U	0.330 U	0.330 U	0.330 U	**1.2**	**1.1**	**1.2**	**0.51 J**	**1.4**	**1.1**	< 1.0 U	**0.59 J**
cis-1,2-Dichloroethene	156-59-2	1.9	< 0.634 U	< 0.634 U	< 0.634 U	< 0.634 U	< 6.34 U	0.74 U	0.65 U	0.65 U	0.65 U	0.63 U	3.2 U	< 0.634	< 0.634	< 0.634	0.634 U	0.634 U	0.634 U	0.634 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
cis-1,3-Dichloropropene	10061-01-5	2.3	< 0.726 U	< 0.726 U	< 0.726 U	< 0.726 U	< 7.26 U	0.85 U	0.74 U	0.74 U	0.74 U	0.72 U	3.7 U	< 0.726	< 0.726	< 0.726	0.726 U	0.726 U	0.726 U	0.726 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U
Cyclohexane	110-82-7	NL	**2.72 J**	**1.55 J**	< 2.75 U	**2.79**	< 27.5 U	0.64 U	0.56 U	0.56 U	0.56 U	0.54 U	2.8 U	**0.688**	**3.24**	**0.516**	2.75 U	2.75 U	**0.62 J**	2.75 U	**0.36 J**	**1.3 J**	**0.76 J**	**1.9**	**0.77 J**	**1.3 J**	**1.9**	**3.2**
Dibromochloromethane	124-48-1	NL	< 6.82 U	< 6.82 U	< 6.82 U	< 6.82 U	< 68.2 U	1.6 U	1.4 U	1.4 U	1.4 U	1.3 U	7.0 U	< 6.82	< 6.82	< 6.82	6.81 U	6.81 U	6.81 U	6.81 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U
Dichlorodifluoromethane	75-71-8	16.5	**7.71**	**8.65**	**41.6**	**2.87**	< 7.91 U	**2.5**	**2.2**	**2.1**	**13**	**2.2**	**7.1**	**2.37**	**3.12**	**10.5**	0.791 U	0.791 U	0.791 U	**17.7**	**2.2**	**2.3**	**2.4**	**20**	**2.4**	**4.2**	**2.0**	**2.2**
Ethanol	64-17-5	210	**65.9**	**68.4**	**1.56**	**301 D**	< 15.1 U	**8.1**	**110**	**100**	**7.8**	**8.5**	7.7 U	**70.7**	**1250**	**66.3**	**43.2**	**386**	**386**	**7.33**	**92**	**110**	**120**	**1200**	**130**	**190**	**54**	**81**
Ethylbenzene	100-41-4	5.7	**4.00**	**9.51**	**56.5**	**3.13**	**47.8**	0.81 U	**2.2**	**2.2**	**2.6**	**0.88**	**7.6**	**6.78**	**11.8**	**3.04**	**1.04**	**3.82**	**3.91**	0.695 U	**0.57 J**	**5.2**	**4.2**	**4.7**	**5.1**	**3.4**	**1.9**	**1.5**
Heptane	142-82-5	NL	**2.38 J**	**2.54 J**	**0.984 J**	**3.69**	< 32.8 U	0.77 U	0.67 U	0.67 U	0.67 U	**0.99**	3.4 U	**3.98**	**3.98**	**1.02**	**1.15 J**	**1.80 J**	**1.68 J**	3.28 U	**0.66 J**	**1.5 J**	**1.1 J**	**1.8 J**	**1.2 J**	**1.1 J**	**23**	**9.2**
Hexachlorobutadiene	87-68-3	6.8	< 8.53 U	< 8.53 U	< 8.53 U	< 8.53 U	< 85.3 U	10 U	8.7 U	8.7 U	8.7 U	8.4 U	44 U	< 8.53	< 8.53	< 8.53	8.53 U	8.53 U	8.53 U	8.53 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Hexane	110-54-3	10.2	**4.37**	**2.85**	< 2.82 U	**10.9**	< 28.2 U	0.66 U	**1.5**	**1.5**	0.58 U	**2.0**	2.9 U	**2.22**	**2.57**	**0.952**	**1.73 J**	**1.80 J**	**1.55 J**	2.82 U	**0.88 J**	**2.4**	**1.8**	**2.0**	**1.9**	**1.2 J**	**16**	**4.0**
Indan	496-11-7	NL	**1.31 J**	**2.37 J**	**62.8**	**1.31 J**	**31.4 J**	4.5 U	4.0 U	4.0 U	**5.9**	3.8 U	20 U	**1.45**	**12.6**	**1.93**	3.87 U	**1.06 J**	**1.5 J**	3.87 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
Indene	95-13-6	NL	**1.05 J**	**5.18**	**167**	< 3.80 U	**77.0**	4.4 U	6.4	**5.8**	**11**	3.8 U	19 U	< 3.80	< 3.80	< 3.80	3.80 U	3.80 U	3.80 U	3.80 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Isopentane	78-784	NL	**38.7**	**23.2**	**1.06 J**	**203 D**	**8.26 J**	2.8 U	4.8	**3.9**	2.4 U	**6.8**	12 U	**33.9**	**46.6**	**11.3**	**9.92**	**11.4**	**9.56**	2.36 U	**3.1**	**100**	**87**	**32**	**98**	**20**	**34**	**8.3**
m+p-Xylene	136777-61-2	22.2	**13.6**	**22.4**	**136**	**11.0**	**123**	**1.1**	**7.2**	**6.6**	**7.0**	**3.0**	**18**	**21.9**	**39.9**	**7.77**	**3.43**	**12.9**	**14.6**	0.695 U	**1.8 J**	**13 J**	**8.1 J**	**13 J**	**9.8 J**	**7.3 J**	**4.1 J**	**3.5 J**
Methyl tert-butyl ether	1634-04-4	11.5	< 2.88 U	< 2.88 U	< 2.88 U	**1.19 J**	< 28.8 U	0.67 U	0.59 U	0.59 U	0.59 U	0.57 U	3.0 U	< 2.88	< 2.88	< 2.88	2.88 U	2.88 U	2.88 U	2.88 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U
Methylene chloride	75-09-2	10	**13.8**	**11.9**	**3.34**	**5.21**	**9.73 J**	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	5.7 U	**8.75 J**	**8.72 J**	**6.39 J**	**6.95 J**	**14.3 J**	**12.9 J**	**5.71 J**	< 1.7 U	< 6.3 U	< 4.6 U	< 3.3 U	< 4.9 U	< 2.2 U	< 1.7 U	< 1.7 U
Naphthalene	91-20-3	5.1	**2.99 J**	**27.2 J**	**280 J**	**1.36 J**	**82.3 J**	4.9 U	**23**	**22**	**42**	4.1 U	**28**	**0.996**	**2.94**	**1.15**	4.19 UJ	4.19 UJ	4.19 UJ	4.19 UJ	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
o-Xylene	95-47-6	7.9	**4.56 J**	**8.08 J**	**69.1 J**	**4.13 J**	**44.7 J**	0.81 U	**3.0**	**2.8**	**6.1**	**1.0**	**13**	**6.69**	**13.9**	**3.39**	**1.09**	**4.56**	**5.17**	0.695 U	**0.62 J**	**4.5**	**3.1**	**4.5**	**3.6**	**2.5**	**1.6**	**1.2**
Propene	115-07-1	NL	**1.36 J**	**0.861 J**	< 1.38 U	**1.86**	**5.85 J**	1.6 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	**1.14**	**1.60**	**0.912**	3.44 UJ	3.44 UJ	3.44 UJ	3.44 UJ	**1.9 J+**	**4.7 J+**	**3.7 J**	**9.2 J+**	**2.7 J**	**2.7 J+**	**140 J+**	**39 J+**
Styrene	100-42-5	1.9	**3.02**	**4.09**	**26.4**	< 0.681 U	**17.5**	0.80 U	**1.7**	**1.5**	0.70 U	0.67 U	3.5 U	**4.34**	**5.45**	**0.979**	0.682 U	**0.682**	**1.02**	0.682 U	< 0.85 U	**6**	**4.6**	**4.9**	**5.3**	**3.9**	**3.3**	**2.3**
Tetrachloroethene	127-18-4	15.9	**2.44**	**4.00**	**66**	< 1.08 U	**1870**	**28**	**2.0**	**2.0**	**30**	**2.2**	**1100**	< 1.08	**3.46**	**138**	1.09 U	**5.02 J**	**2.24 J**	**43.6**	**0.41 J**	**1.3 J**	**0.78 J**	**2.2**	**1.1 J**	**2.2**	**35**	**24**
Tetrahydrofuran	109-99-9	NL	**1.15 J**	**2.71**	< 2.36 U	**0.944 J**	**5.60 J**	2.8 U	**5.1**	**4.9**	2.4 U	2.3 U	12 U	**0.472**	**2.04**	**0.472**	2.36 U	2.36 U	2.36 U	2.36 U	< 2.9 U	**0.60 J**	< 2.9 U	**1.2 J**	**0.31 J**	**0.45 J**	**0.51 J**	**0.27 J**
Thiophene	110-02-1	NL	< 2.75 U	< 2.75 U	< 2.75 U	< 2.75 U	< 27.5 U	3.2 U	2.8 U	2.8 U	2.8 U	2.7 U	14 U	< 2.75	< 2.75	< 2.75	2.75 U	2.75 U	2.75 U	2.75 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.69 U
Toluene	108-88-3	43	**76.5**	**107**	**57.7**	**22.6**	**73.5**	**2.0**	**6.6**	**6.4**	**2.6**	**3.6**	**3.6**	**50.9**	**53.5**	**15.0**	**26.2**	**52.4**	**45.2**	**0.753**	**2.7**	**31**	**28**	**27**	**35**	**24**	**10**	**9.7**
Total Xylenes	1330-20-7	NL	**18.16**	**30.48**	**205.1**	**15.13**	**167.7**	**1.1**	**10.2**	**9.4**	**13.1**	**4**	**31**	**28.59**	**53.8**	**11.16**	**4.52**	**17.46**	**19.77**	ND	**2.42**	**17.5**	**11.2**	**17.5**	**13.4**	**9.8**	**5.7**	**4.7**

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Table 5-16
Soil Vapor Intrusion Evaluation Results
Former Equity Works MGP Site
Brooklyn, NY

Sampling Event			**NOVEMBER 2009 SAMPLING EVENT**					**MARCH 2010 SAMPLING EVENT**						**AUGUST 2010 SAMPLING EVENT**			**FEBRUARY 2011 SAMPLING EVENT**				**MARCH 2015 SAMPLING EVENT**							
Location				**222 Maspeth Ave**		**252 Maspeth Ave**			**222 Maspeth Ave**			**252 Maspeth Ave**		**222 Maspeth Ave**			**222 Maspeth**					**1 Rewe St (north end)**			**1 Rewe St (south end)**		**7-9 Rewe St**	
Sample Source			**Ambient Air**	**Indoor Air**	**Soil Vapor**	**Indoor Air**	**Soil Vapor**	**Ambient Air**	**Indoor Air**	**Indoor Air**	**Soil Vapor**	**Indoor Air**	**Soil Vapor**	**Ambient Air**	**Indoor Air**	**Soil Vapor**	**Ambient Air**	**Indoor Air**	**Indoor Air**	**Soil Vapor**	**Ambient Air**	**Indoor Air**	**Indoor Air**	**Soil Vapor**	**Indoor Air**	**Soil Vapor**	**Indoor Air**	**Soil Vapor**
Sample Location			**AMB**	**IA-1 [b]**	**SV-1 [c]**	**IA-2 [d]**	**SV-2 [e]**	**AMB-1**	**IA-1 [b]**	**IA-1 [b]**	**SV-1 [c]**	**IA-2 [d]**	**SV-2 [e]**	**AMB**	**IA-1 [b]**	**SV-1 [c]**	**AMB-1**	**IA-1 [b]**	**IA-1-Dup [b]**	**SV-1 [c]**	**OA-1**	**IA-A**	**IA-A**	**SG-A**	**IA-B**	**SG-B**	**IA-C**	**SG-C**
Sample ID			**AMB-111709**	**IA-1-111709**	**SV-1-111709**	**IA-2-111709**	**SV-2-111709**	**AMB-1**	**IA-1**	**IA-1 Dup**	**SV-1**	**IA-2**	**SV-2**	**AMB-1-082810**	**IA-1-082810**	**SV-1-082810**	**AMB1**	**IA1**	**IA1 DUP**	**SS1**	**OA-1-032515**	**IA-A-032515**	**AIR-DUP-032515**	**SG-A-032515**	**IA-B-032515**	**SG-B-032515**	**IA-C-032515**	**SG-C-032515**
Sampling Date			**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**3/14/2010**	**3/14/2010**	**3/14/2010**	**3/14/2010**	**3/14/2010**	**3/14/2010**	**8/28/2010**	**8/28/2010**	**8/28/2010**	**2/12/2011**	**2/12/2011**	**2/12/2011**	**2/12/2011**	**3/25/2015**	**3/25/2015**	**3/25/2015**	**3/25/2015**	**3/25/2015**	**3/25/2015**	**3/25/2015**	**3/25/2015**
Compound (µg/m³)	**CAS No.**	**Typical Background Indoor Air Concentrations (Non-Residential)[a]**																										
trans-1,2-Dichloroethene	156-60-5	NL	< 3.17 U	< 3.17 U	**0.872 J**	< 3.17 U	< 31.7 U	0.74 U	0.65 U	0.65 U	0.65 U	0.63 U	3.2 U	< 3.17	< 3.17	< 3.17	3.17 U	3.17 U	3.17 U	3.17 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.79 U
trans-1,3-Dichloropropene	10061-02-6	1.3	< 0.726 U	< 0.726 U	< 0.726 U	< 0.726 U	< 7.26 U	0.85 U	0.74 U	0.74 U	0.74 U	0.72 U	3.7 U	< 0.726	< 0.726	< 0.726	0.726 U	0.726 U	0.726 U	0.726 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U
Trichloroethene	79-01-6	4.2	< 0.860 U	**1.40**	**4.3**	< 0.860 U	**1790**	1.0 U	0.88 U	0.88 U	**2.3**	**1.5**	**810**	**6.34**	**5.91**	**3.22**	0.860 U	0.860 U	0.860 U	**4.03**	**0.34 J**	**0.44 J**	**0.45 J**	**0.33 J**	**0.48 J**	**0.26 J**	< 1.1 U	< 1.1 U
Trichlorofluoromethane	75-69-4	18.1	**6.24**	**4.89**	**15.8**	**1.80**	**21.4**	**1.3**	**1.3**	**1.3**	**13**	**0.96**	**9.5**	**2.81**	**5.23**	**25.3**	**1.74**	**2.02**	**1.91**	**22.8**	**1.2**	**1.4**	**1.2**	**86**	**1.3**	**17**	**1.1**	**1.6**
Vinyl chloride	75-01-4	1.9	< 0.409 U	< 0.409 U	< 0.409 U	< 0.409 U	< 4.09 U	0.48 U	0.42 U	0.42 U	0.42 U	0.40 U	2.1 U	< 0.409	< 0.409	< 0.409	0.409 U	0.409 U	0.409 U	0.409 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	< 0.51 U	**0.25 J**	< 0.51 U	< 0.51 U
Helium	7440-59-7	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Helium (%v/v)	7440-59-7	NL	NA	NA	NA	NA	NA	NA	NA	NA	0.082	NA	0.082	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	< 0.29 U	NA	< 0.20 U	NA	< 0.21 U

Notes are on the last page.

Notes:

All units in micrograms per cubic meter (µg/m³)

[a] Typical non-residential background indoor air concentrations are equal to the 90th percentile values observed by the USEPA in a 2001 study which are the values recommended for comparison in the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, October 2006), Table C2.

[b] At 222 Maspeth Ave, IA-1 was collected from the ground floor (locker room area) of the office structure.

[c] At 222 Maspeth Ave, SV-1 was collected at the same location as IA-1 from directly below the concrete floor slab.

[d] At 252 Maspeth Ave, IA-2 was collected from the ground floor of the mechanics shop.

[e] At 252 Maspeth Ave, SV-2 was collected at the same location as IA-2 from directly below the concrete floor slab.

Bold - Compound detected in a concentration greater than the method reporting limits.

Exceeds NYSDOH NonRes Typical Background Indoor Air

Dup - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

NS: Analyte was not measured.

ND: Analyte was not detected by GC/MS library search.

NA - Not applicable.

U - The compound was analyzed for, but was not detected above the method reporting limit.

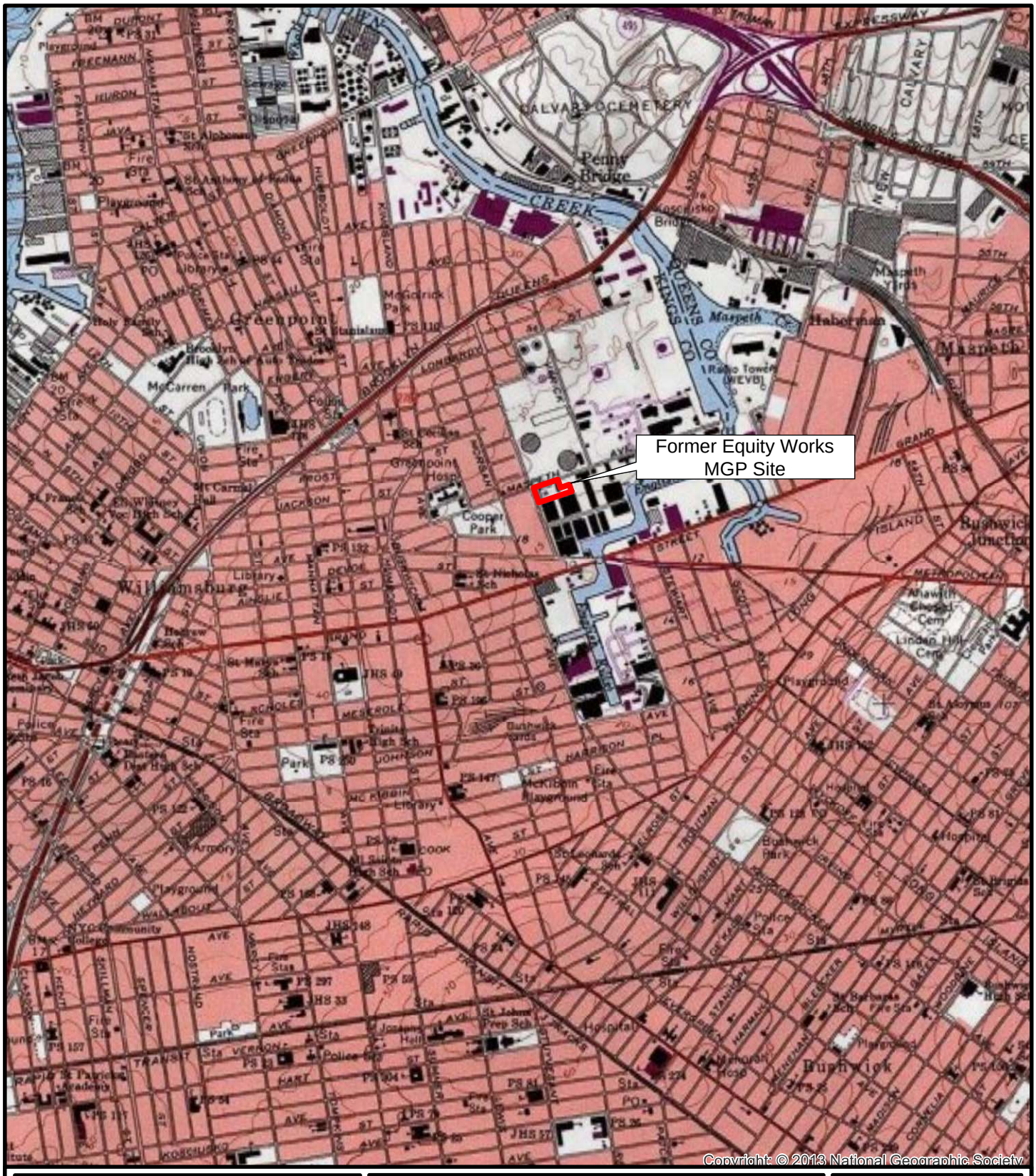
J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ - The result is an estimated quantity, but the result may be biased high.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be UJ - inaccurate or imprecise.

NJ: Tentatively identified compound, presumptively present at an estimated concentration.

Figures



AECOM Environment
125 Broad Street
16th Floor
New York, NY 10004
(212) 377-8400
www.aecom.com

National Grid
Former Equity Works MGP Site, Brooklyn NY

Data Source: USGS Topographic Quadrangle - Brooklyn, 2009

Scale:	Date:	Project Number:
1"=2000'	December 2013	60137362

Site Location Map

Figure 1-1

\\usnycs01\gis\work\60137362\Mxd\



LEGEND:

- PROPERTY LINE
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- HISTORIC STRUCTURES
- 1776 HISTORIC WATERCOURSE
- 1900s HISTORIC WATERCOURSE
- 1924 HISTORIC WATERCOURSE
- 1931 DREDGING CHANNEL

80 0 160

GRAPHIC SCALE IN FEET

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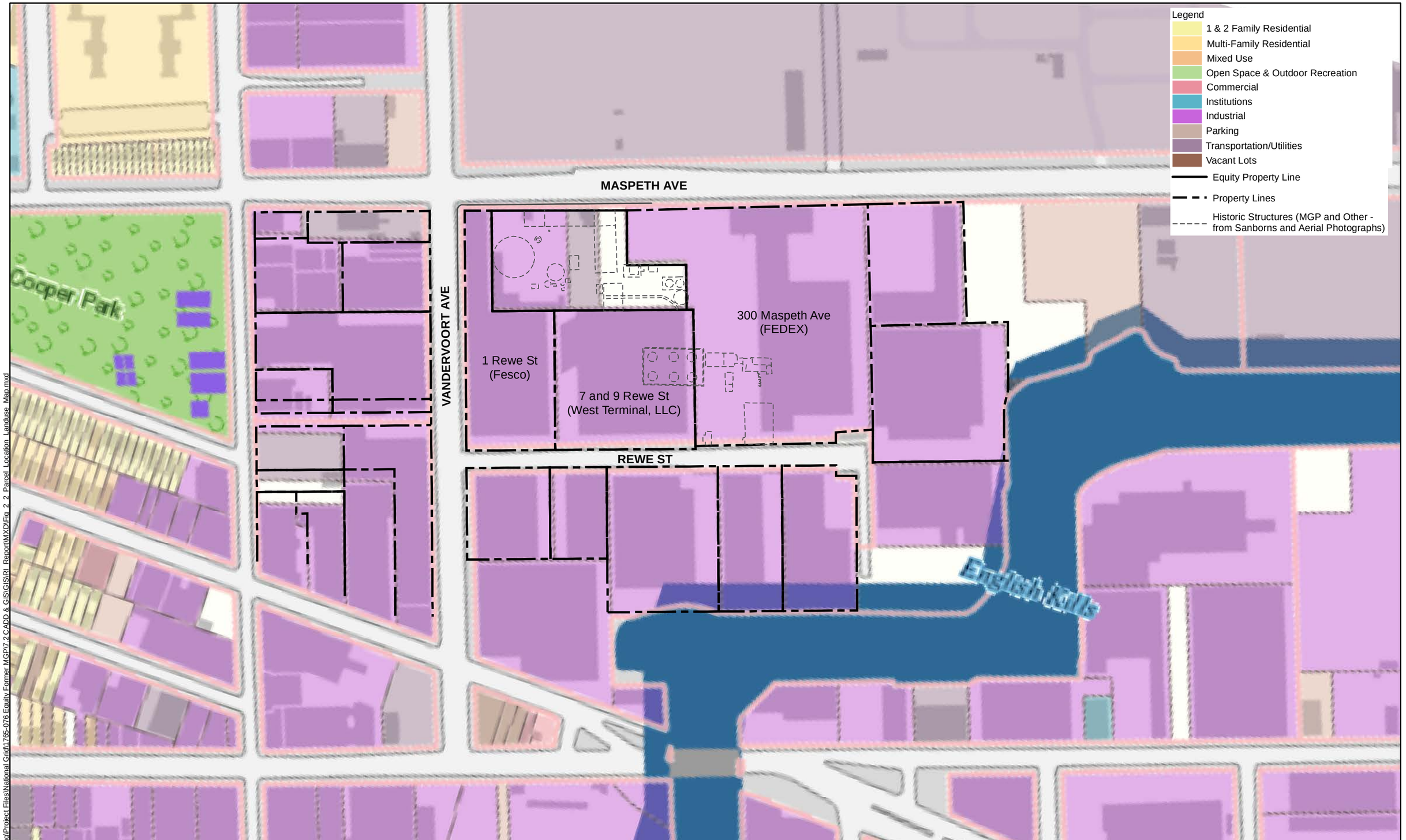
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

60137362.400

AERIAL PROPERTY AND SITE BOUNDARIES MAP

DATE: 03/30/2016 | DRWN: JB | **FIGURE 2-1**

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RL_Report\MXD\Fig_2_1_Aerial_Property_Site_Boundaries_Map.dwg Layout: WorkProduct2013 No Impact User: bourdeauj Plotted: Mar 30, 2016 - 6:09pm



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AECOM

N

0 100 200

Scale in Feet

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FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

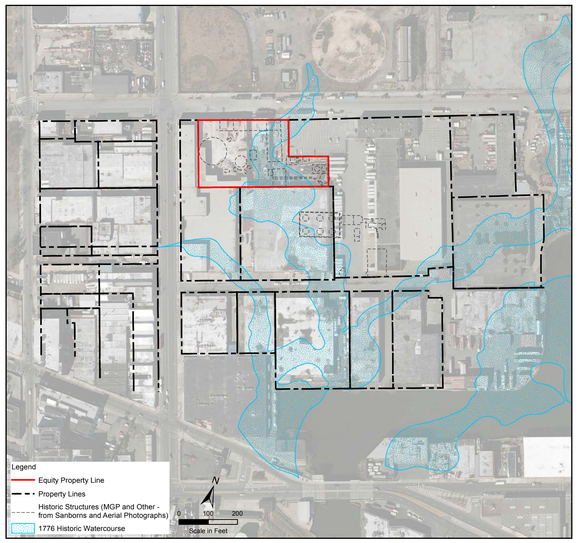
FIGURE 2-2
PARCEL LOCATION/LAND USE MAP

1776



English Kills Water Course – 1776-1777

From:
MAP
Showing the ORIGINAL HIGH and LOW GROUNDS. SALT MARSH and SHORE LINES.
In the City of Brooklyn
From Government Surveys made in 1776-7
G. Marterer – 1925
(Provided by National Grid)



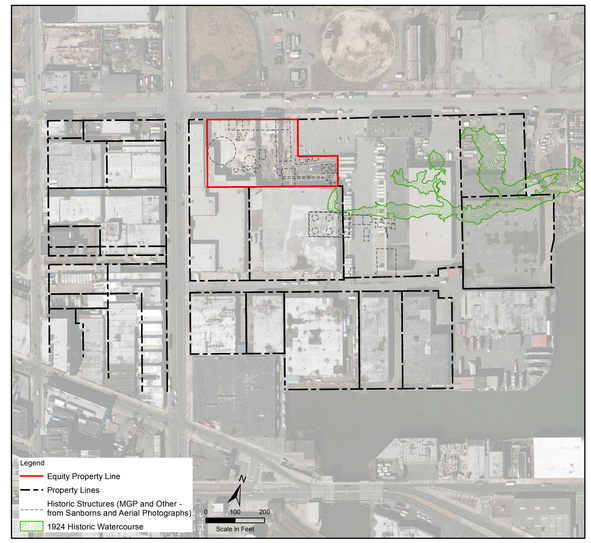
Overlay
English Kills Water Course – 1776-1777 on Present Day Aerial Photograph of Former Equity Works MGP Site and Surrounding Properties

1924



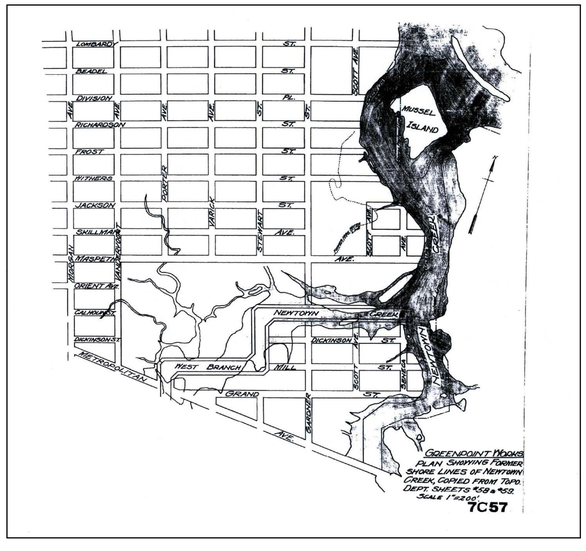
1924 Aerial Photograph of the former Equity Works MGP Site, Part of English Kills, and Drainage Channels through the Area to the East of the Site

From:
City of New York, 2011



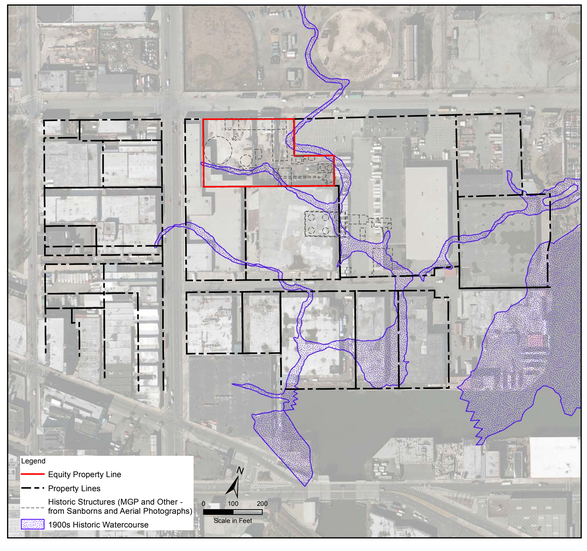
Overlay
English Kills and Drainage Channels in 1924 on Present Day Aerial Photograph of Former Equity Works MGP Site and Surrounding Properties

1990



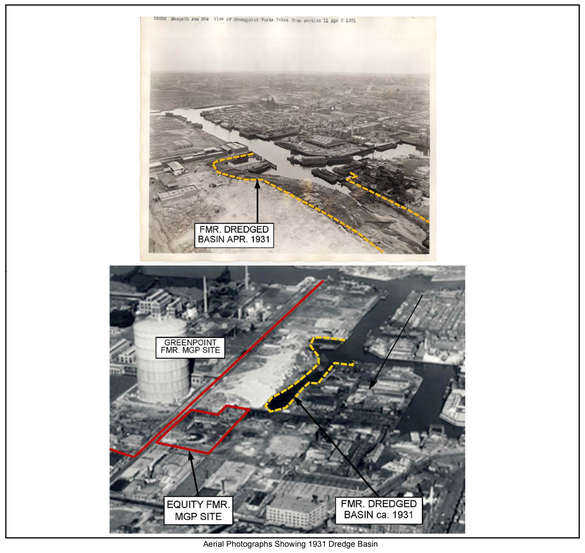
English Kills Water Course – Circa 1900

(Provided by National Grid)



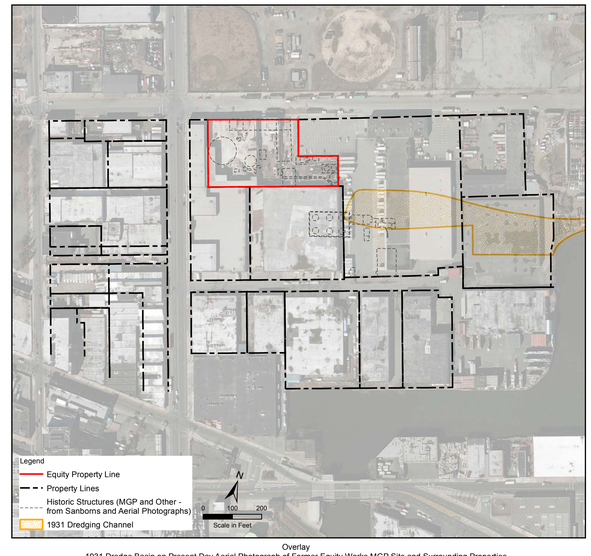
Overlay
English Kills Water Course – Circa 1900 on Present Day Aerial Photograph of Former Equity Works MGP Site and Surrounding Properties

1931



Aerial Photographs Showing 1931 Dredge Basin

From:
(Provided by National Grid)



Overlay
1931 Dredge Basin on Present Day Aerial Photograph of Former Equity Works MGP Site and Surrounding Properties

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FIGURE 2-3
EVOLUTION OF ENGLISH KILLS CHANNEL AND AREAL DRAINAGE - 1776 TO 2015

Path: P:\Jobs\Rest_Eng\Project Files\National Grid\750-576 Equity Former MGP\12 CAD\5 CSS\SSRL_Report\MXD\Historical\Fig_2_3_Evolution_Of_English_Kills_Channel.mxd

MASPETH AVE

VANDERVOORT AVE

Historic Structure

- 1893
- 1896
- 1898
- 1903
- 1905
- 1907
- 1921
- 1929
- 1932
- 1933
- 1965
- 1990
- Equity Property Line
- Property Lines

Well (1905)
6" Saltwater pipe (1932)
Unknown (1929)

Office (1903-1932) Unknown (1933)

Garage transfer/ Storage/Unknown (1990-1995)

Cellar/Meter room/Unknown (1903-1933)

Purifier room/ house (1903-1921) Unknown (1933) Used valve storage (1965-1981)

Oxide room (1903) Storage house (1907) Pipe shop (1921-1932) Unknown (1933) Office (1965-1995)

Condenser room (1903) Unknown (1933) Office (1965-1995)

Condensors (1905-1921)

Holder inlet and outlet pipe well (1903-1921)

Cribwork (1903)

Generator room/house (1903) Unknown (1933) Storage (1965-1995)

No. 1 Relief holder/ Storage/Gas holder 3 sections brick tank 90' diam. Concrete foundation 430,000 cu ft Built 1893. Disconnected and partially filled 1932 (1893-1932)

Used valve storage (1965)

Exhausters/2 Engines/ 2 Blowers (1903-1923) Unknown (1929-1933)

Scale (1921)

Boiler room (1903-1905) Blower room (1921) Unknown (1933)

Boiler house (1903)

Tar Tank (1903)

Stable/ Unknown (1907-1933)

Shed (1921)

Separator (1903)

Boiler house (1903)

Part of boiler room (1905) Governor house (1907)

Relief holder/Tar tank/Settling tank (1903-1924)

Separator (1921)

Runway (1921)

Boiler room/house (1905-1933)

Pump/Pump house (1921-1929)

Unknown/Fuel oil (1907-1929) Tar tank (1921)

Drip tanks (1905-1921)

Coop (1907)

Pump (1905)

Oil (1907)

Pump/Pump house (1921-1929)

Smithshop/ Unknown/ Blacksmith shop (1905-1933)

Unknown (1933)

Oil house/Oil storage tank/Gas oil storage house (1903-1932) Vacant (1933)

No. 1

No. 2

Used valve storage (1965-1981)

Shed (1932) Unknown (1933-1951)

Storage shed/Unknown (1929-1951)

Coal shed/Unknown (1903-1932)

Trolley system/Coal run (1907-1929)

No. 3 Oil Storage Tank/Oil Tank (1905-1921)

1 Rewe St
(Fesco)

7 and 9 Rewe St
(West Terminal, LLC)

N

0 20 40

Scale in Feet

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FIGURE 2-4
HISTORICAL AND CURRENT
SITE FEATURES MAP

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_2_4_Historical_Current_Site_Features.mxd

Legend

Equity Property Line

Property Lines

Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

MASPETH AVE

VANDERVOORT AVE

REWE ST

1 Rewe St
(Fesco)

7 and 9 Rewe St
(West Terminal, LLC)

300 Maspeth Ave
(FEDEX)

Fuel Oil Tanks
99,560 Gals Each
(1947-1956)

Pump House

Office

Marvel Oil Corp. (1929)

Gasoline Tanks
10,000 Gals Each (1951)

Trucking
Filling

E.V. Crandall Oil & Putty
Mfg Co (1929-1954)

Office

N

0 50 100

Scale in Feet

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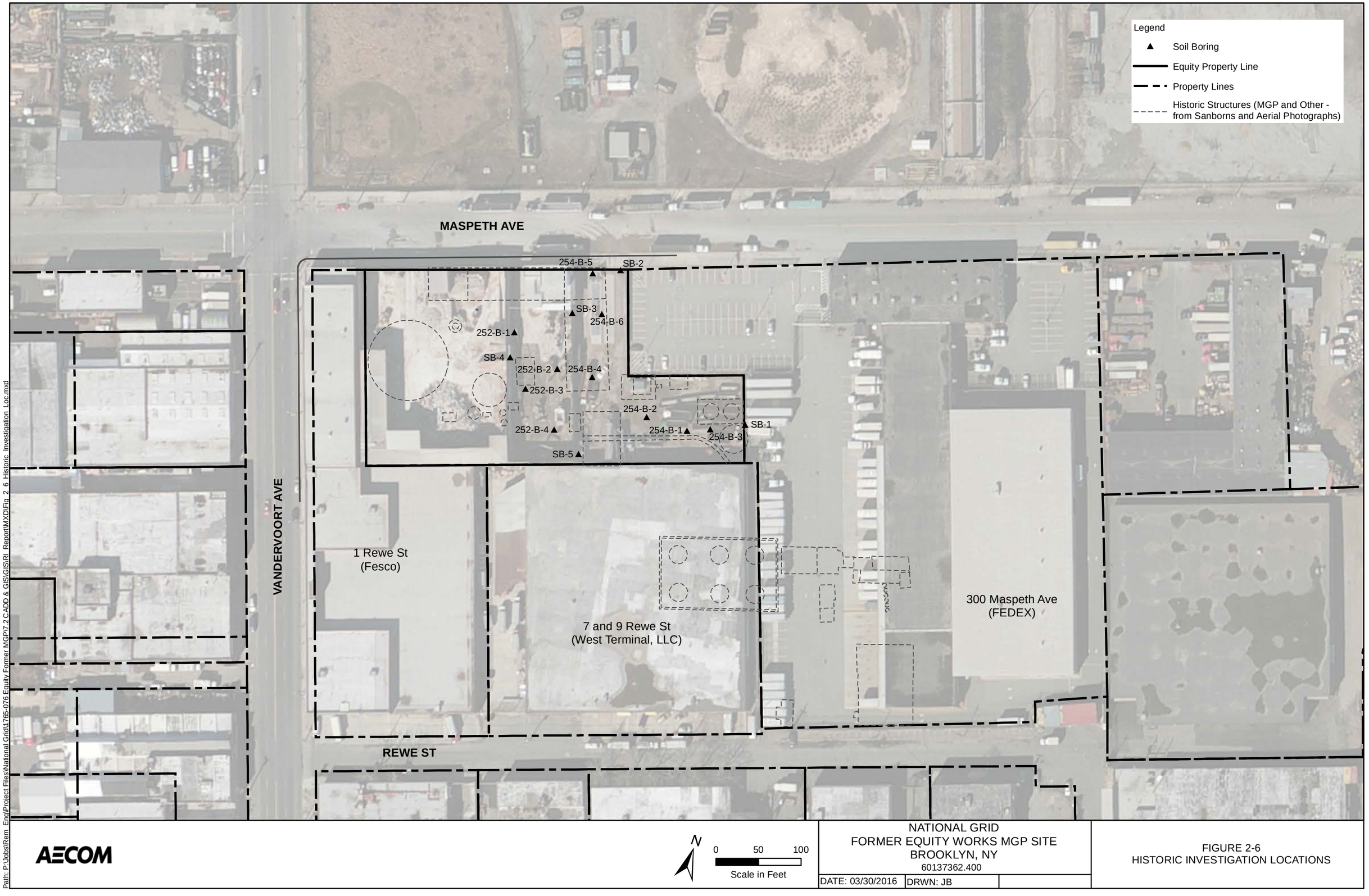
FIGURE 2-5
FORMER FUEL OIL BULK STORAGE FACILITY

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\60137765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_2_5_Former_Fuel_Oil_Bulk_Storage_Facility.mxd



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AECOM

N

0 50 100

Scale in Feet

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FIGURE 2-6
HISTORIC INVESTIGATION LOCATIONS



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\t1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_2_7_Offsite_Investigation_Loc_Completed_By_Others_Zoomin.mxd

AECOM

N

0 50 100

Scale in Feet

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FIGURE 2-7
OFF-SITE INVESTIGATION LOCATIONS
COMPLETED BY OTHERS

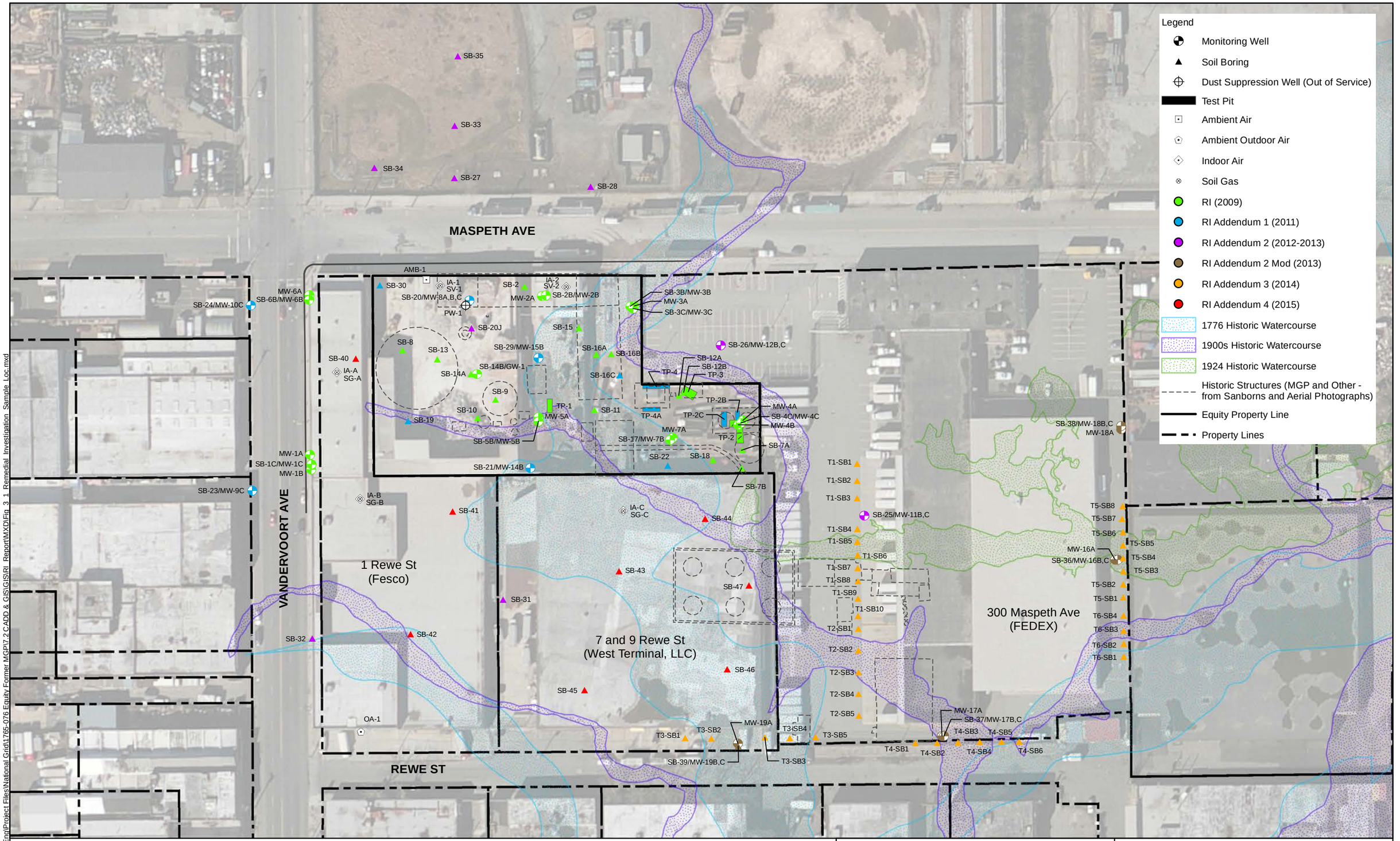

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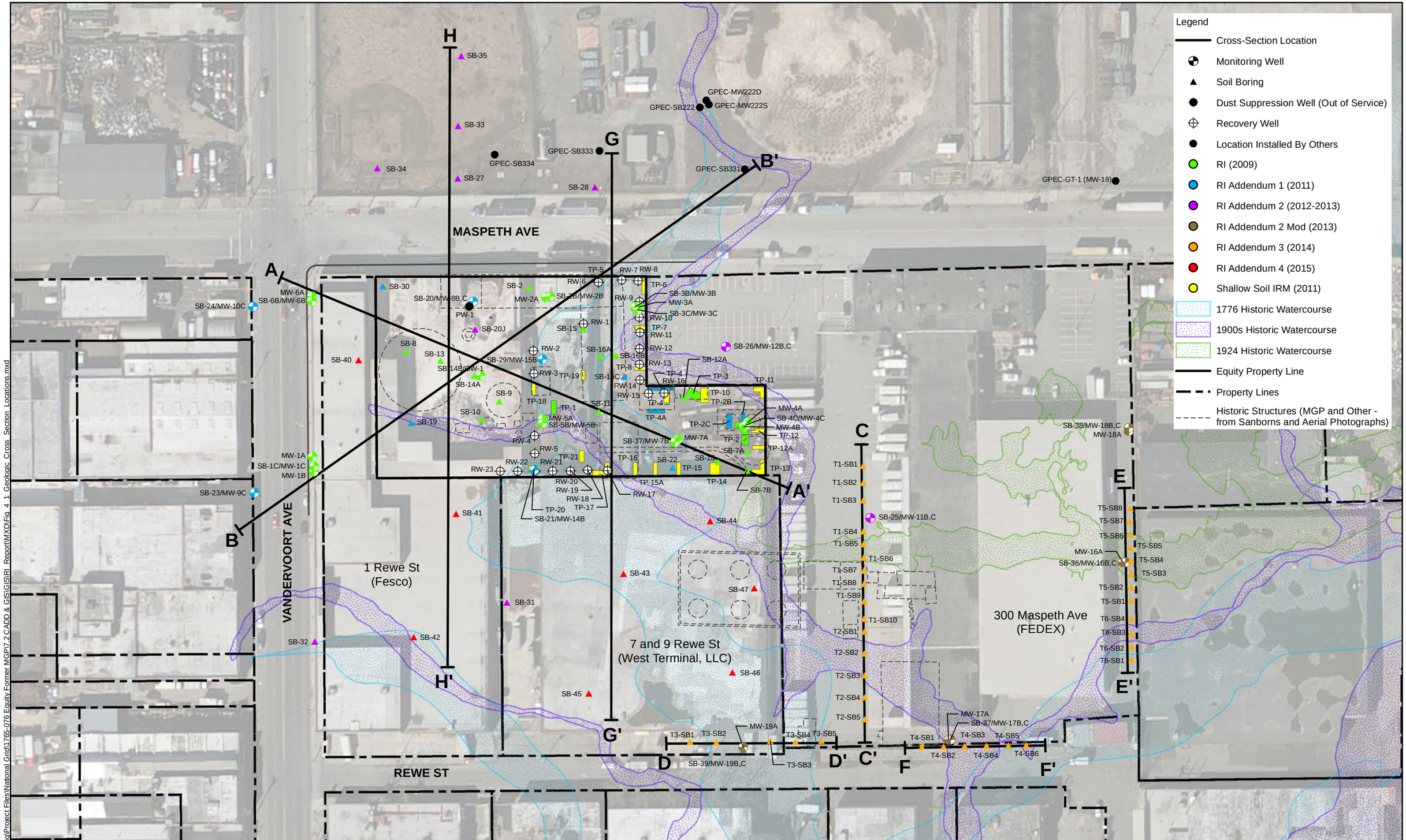
FIGURE 3-1
REMEDIAL INVESTIGATION
SAMPLE LOCATIONS



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\60137362.400 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_3_2_Shallow_Soil_Ex_IRM_PDI_NAPL_Loc.mxd

AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE BROOKLYN, NY 60137362.400	FIGURE 3-2 SHALLOW SOIL EXCAVATION IRM PDI, NAPL RECOVERY IRM PDI SAMPLE LOCATIONS AND NAPL RECOVERY IRM WELL LOCATIONS
DATE: 03/30/2016 DRWN: JB	



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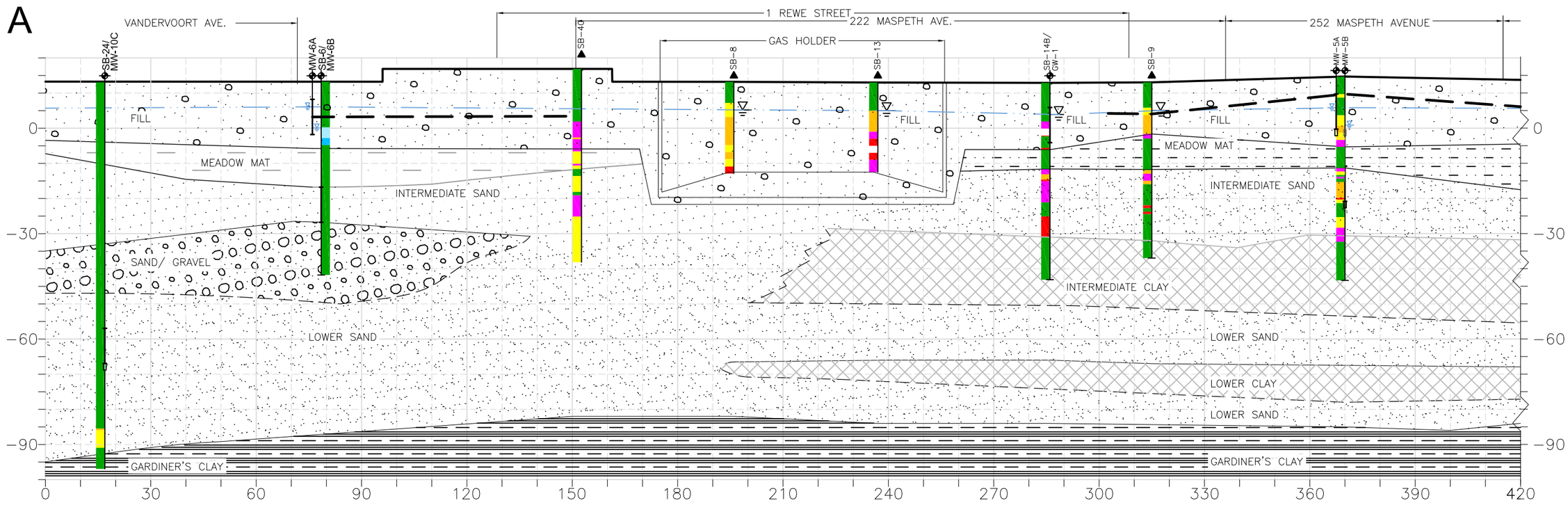
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-1
GEOLOGIC CROSS-SECTION LOCATIONS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_1_Geologic_Cross_Section_Locations.mxd



LEGEND:

- EXISTING GROUND SURFACE
- SCREENED INTERVAL
- SUMP INTERVAL
- SUBGRADE SOIL TYPE CONTACT
- SUBGRADE SOIL TYPE CONTACT INFERRED
- BORING/WELL TERMINUS

- FILL
- MEADOW MAT
- SAND/GRAVEL
- INTERBEDDED SAND, SILT AND CLAY
- GARDINERS CLAY
- CLAY

- NAPL SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEENS
- STAINING ODOR
- HARDENED NAPL
- PETROLEUM IMPACTS, SATURATION AND SHEEN
- PETROLEUM IMPACTS, STAINING AND ODOR
- NO OBSERVED IMPACTS
- MW-4A RI MONITORING WELL
- SB-4 RI SOIL BORING

NOTE:

Monitoring wells MW-6A, MW-5A, MW-7A, MW-4A, and MW-4B have been added to the cross-section adjacent to the deeper well pair/triplet for comparison. These locations were graphically adjusted for clarity and do not represent field locations.

MW-4C is offset by 35' from the cross-section. Lithology from -30 to -74 feet has been projected onto the cross-section.

* Gardiners Clay at SB-6B based on stratigraphy at SB-1C.

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FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

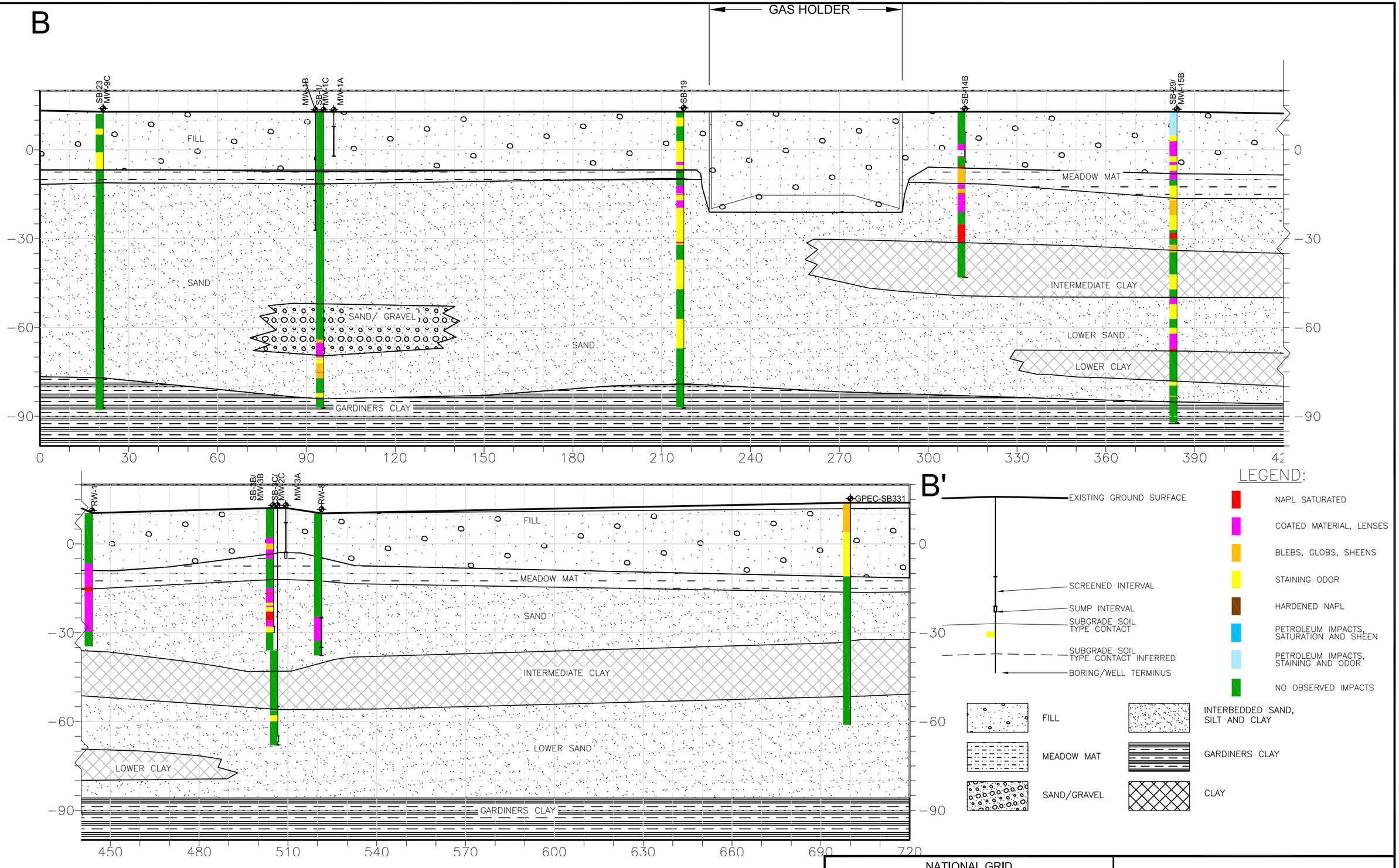
60137362-400

DATE: 12/2015 | DRWN: BcV/C-MA

GEOLOGIC CROSS SECTION A-A'

FIGURE 4-2

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: XSECT-AA User: Lambertt Plotted: M



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FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

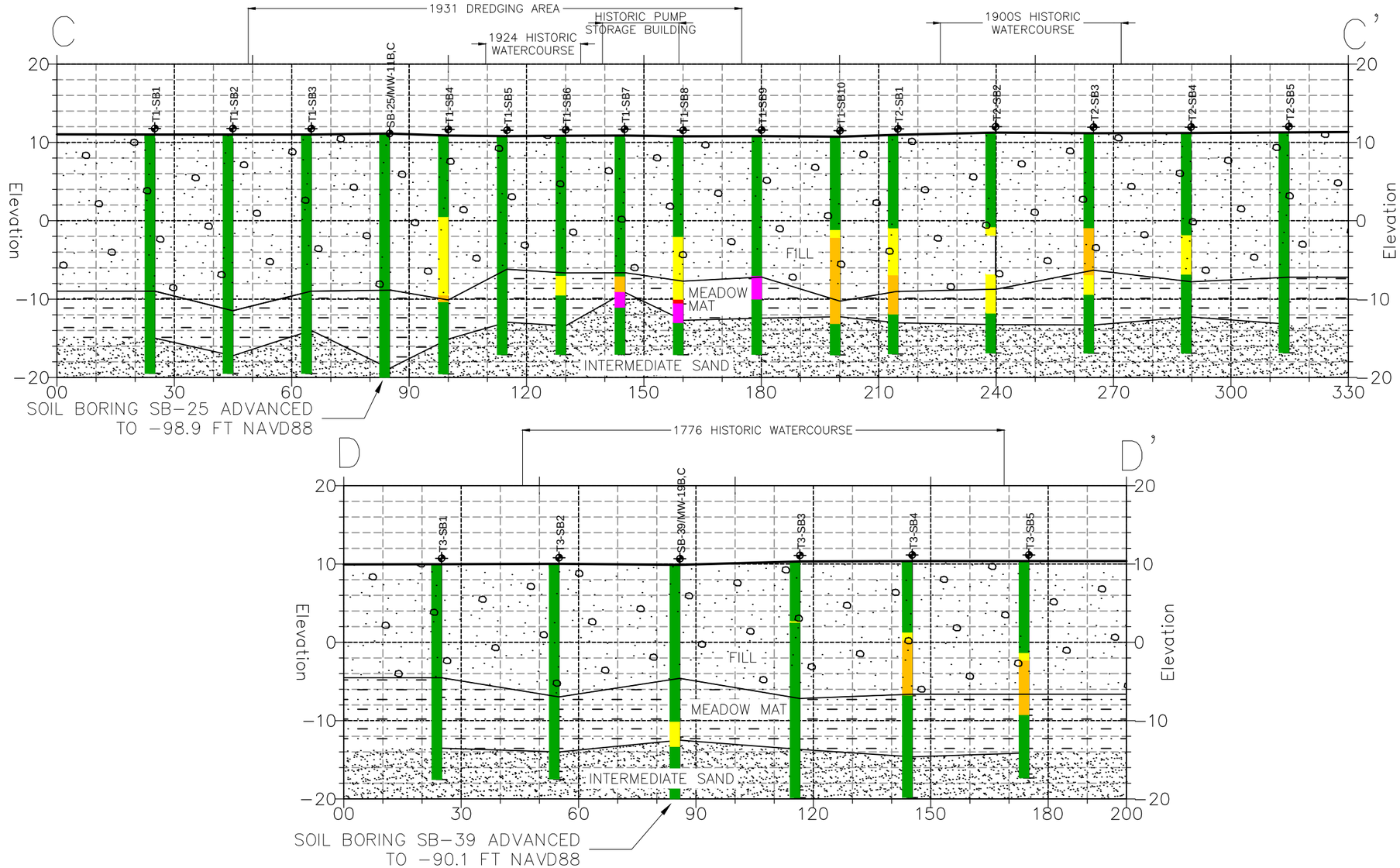
60137362-400

DATE: 12/28/2015 | DRWN: TDL

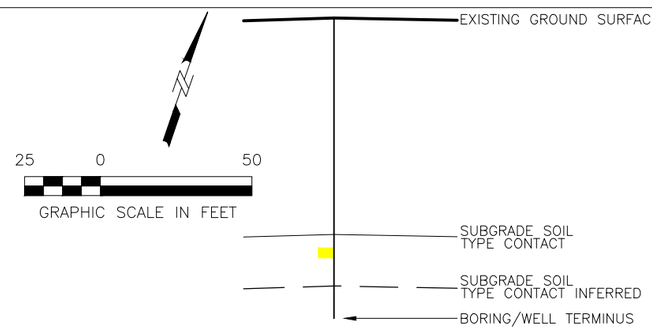
GEOLOGIC CROSS SECTION B-B'

FIGURE 4-3

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\4-2012\60137362-310_A4.dwg Layout: X-sect_BB User: Lambertt Plotted: Mar 24, 2016 - 7:56pm



CROSS SECTION LEGEND:



- NAPL SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEENS
- STAINING ODOR
- HARDENED NAPL
- PETROLEUM IMPACTS, SATURATION AND SHEEN
- PETROLEUM IMPACTS, STAINING AND ODOR
- NO OBSERVED IMPACTS

- FILL
- MEADOW MAT
- SAND/GRAVEL

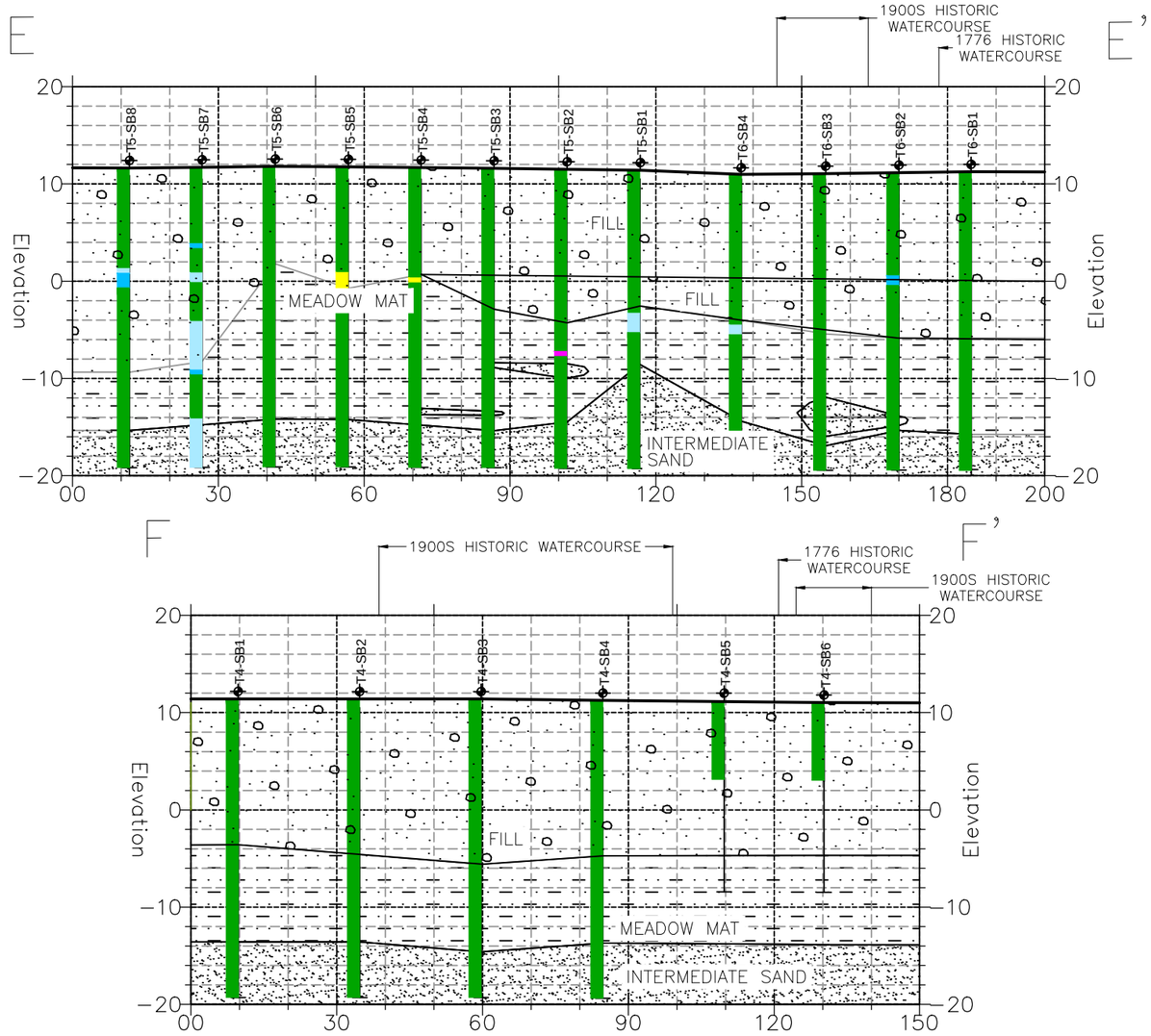
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY
60137362-400

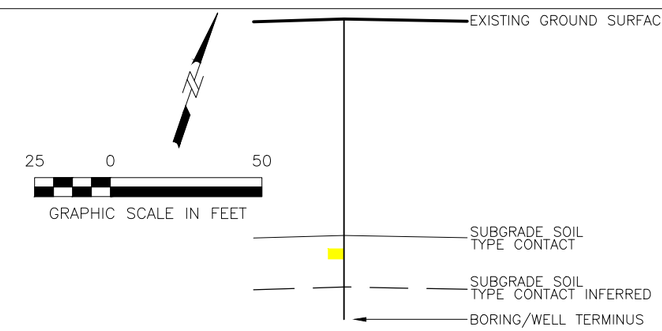
GEOLOGIC CROSS SECTIONS C-C' AND D-D'

DATE: 12/30/2015 | DRWN: CCD | **FIGURE 4-4**

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2014 Cross Section\2014-11-18\2015-12-30 Cross Section.dwg Layout: XSECT C D User: Lambertt Plotted: Mar 24,



CROSS SECTION LEGEND:



- NAPL SATURATED
- COATED MATERIAL, LENSES
- BLEBS, GLOBS, SHEENS
- STAINING ODOR
- HARDENED NAPL
- PETROLEUM IMPACTS, SATURATION AND SHEEN
- PETROLEUM IMPACTS, STAINING AND ODOR
- NO OBSERVED IMPACTS

- FILL
- MEADOW MAT
- SAND/GRAVEL

AECOM

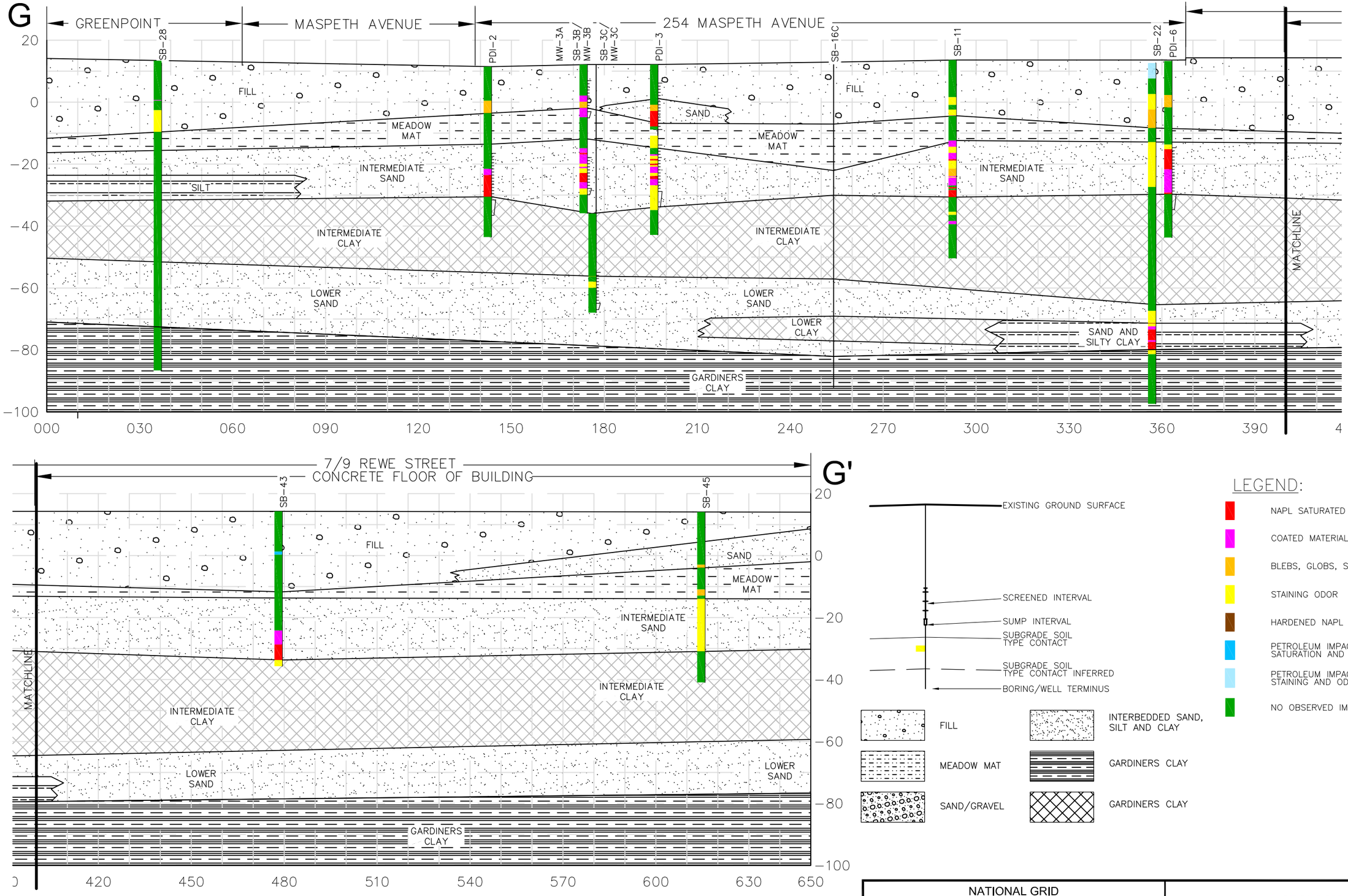
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY
60137362-400

GEOLOGIC CROSS SECTIONS E-E' AND F-F'

DATE: 11/18/14 | DRWN: CBL | **FIGURE 4-5**

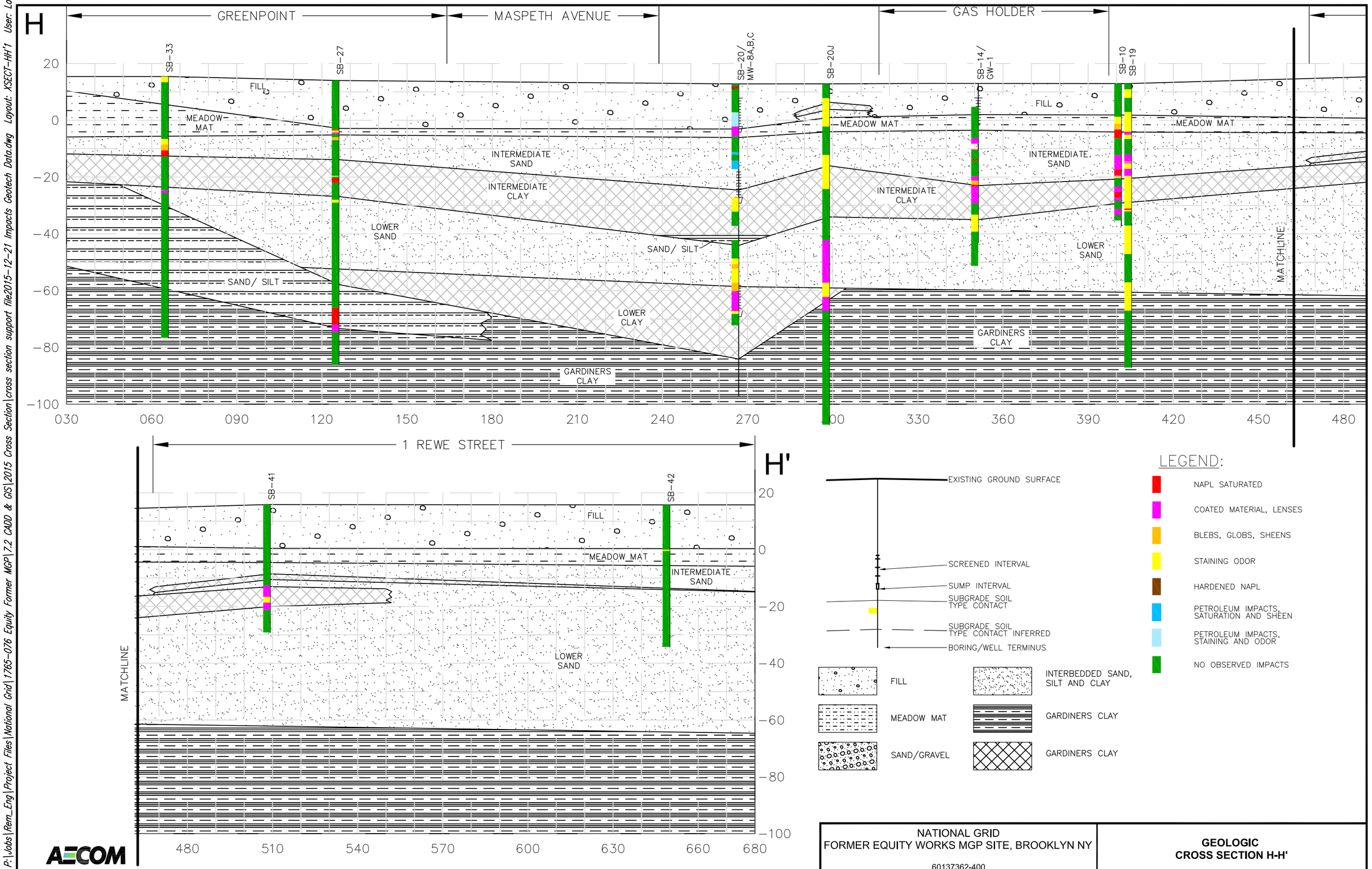
File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2014 Cross Section\2014-11-18\2015-12-30 Cross Section.dwg Layout: XSECT E F User: Lambertt Plotted: Mar 24,

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2015 Cross Section\cross section support file2015-12-21 Impacts Geotech Data.dwg Layout: XSECT-GG' User: Lambe



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400		**GEOLOGIC CROSS SECTION G-G'**
DATE: 08/24/2015	DRWN: LKT	**FIGURE 4-6**



AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

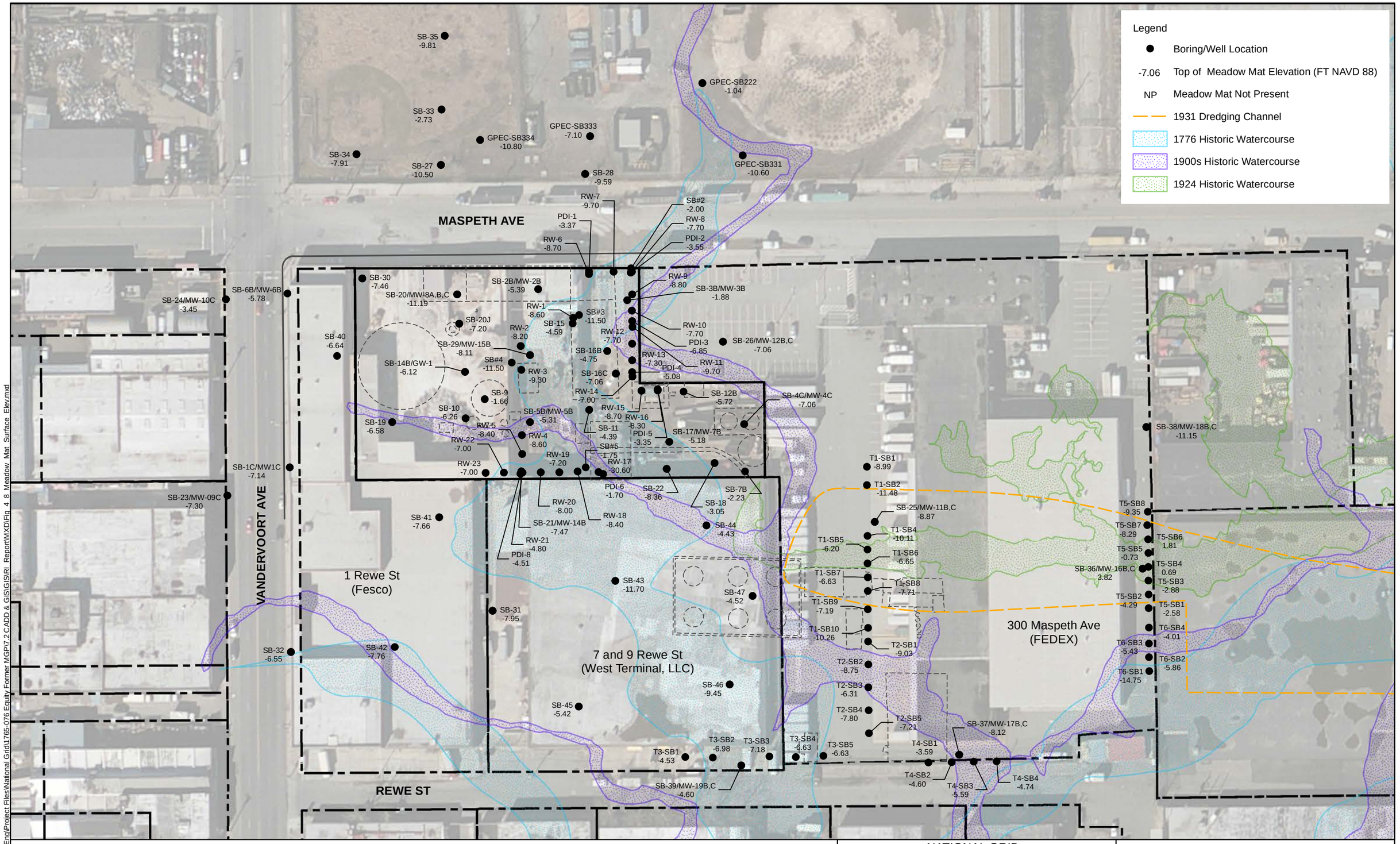
60137362-400

DATE: 12/21/2015 | DRWN: TDL

GEOLOGIC CROSS SECTION H-H'

FIGURE 4-7

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2015 Cross Section\cross section support file2015-12-21 Impacts Geotech Data.dwg Layout: XSECT-HH'1 User: Lamb



AECOM

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FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-8
MEADOW MAT SURFACE ELEVATIONS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_8_Meadow_Mat_Surface_Elev.mxd

Legend

- Boring/Well Location
- -24.9 — Top of Intermediate Clay Elevation (FT NAVD 88)
- NP — Intermediate Clay Not Present
- Intermediate Clay Surface Elevation Contour (FT NAVD 88) Dashed Where Inferred
- Interpreted Limits of Intermediate Clay Unit
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

MASPETH AVE

REWE ST

VANDERVOORT AVE

1 Rewe St (Fesco)

7 and 9 Rewe St (West Terminal, LLC)

300 Maspeth Ave (FEDEX)

SB-35 -28.81
SB-33 -20.73
GPEC-SB222 -19.54
GPEC-SB334 -19.4
GPEC-SB333 -25.8
GPEC-SB331 -24.9
SB-34 NP
SB-27 -22.00
SB-28 -23.59
RW-7 -32.7
PDI-1 -35.37
RW-8 -32.7
PDI-2 -30.55
RW-6 -31.7
RW-9 -34.3
SB-3B/MW-3B -35.88
SB-30 NP
SB-2B/MW-2B -29.59
SB-20/MW-8A,B,C -35.69
RW-12 -30.20
SB-6B/MW-6B NP
SB-24/MW-10C NP
SB-29/MW-15B -34.61
RW-1 -29.6
SB-20J -24.20
SB-15 -30.09
RW-10 -30.7
RW-2 -35.2
SB-16B -30.75
PDI-3 -33.85
SB-26/MW-12B,C -29.06
RW-11 -29.70
SB-40 NP
PDI-4 -26.08
RW-13 -30.3
RW-16 -33.3
RW-3 -34.3
SB-16C -31.06
SB-14B/GW-1 -31.12
SB-9 -26.96
RW-14 -29
RW-15 -28.7
SB-4C/MW-4C -39.06
SB-10 -28.76
SB-5B/MW-5B -33.31
PDI-5 -30.35
SB-19 NP
SB-11 -31.39
SB-17/MW-7B -33.18
SB-38/MW-18B,C -31.15
RW-4 -33.6
RW-5 -29.4
RW-22 -28
RW-18 -32.4
SB-1C/MW1C NP
RW-23 -26
PDI-8 -32.51
PDI-6 -29.70
SB-22 -24.36
SB-18 -31.05
SB-23/MW-09C NP
RW-20 -34
RW-19 -34.2
RW-17 -30.6
RW-21 -31.8
SB-41 -21.16
SB-44 -30.43
SB-25/MW-11B,C -31.87
SB-21/MW-14B -28.47
SB-36/MW-16B,C -36.18
SB-43 -33.70
SB-47 -32.02
SB-31 -22.95
SB-32 NP
SB-42 NP
SB-46 -28.45
SB-45 -30.92
SB-37/MW-17B,C -28.12
SB-39/MW-19B,C -30.10

Note
The following points were not used to generate the clay contours based on professional judgement: SB-28, SB-9, RW-10, SB-21, PDI-2, RW-6, RW-5, RW-11, SB-37, PDI-8, PDI-4, PDI-6.

N

0 50 100
Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-9
INTERMEDIATE CLAY SURFACE ELEVATION CONTOURS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_9_Interm_Clay_Surface_Elev_Contours.mxd

Legend

- Boring/Well Location
- -45.8 Lower Clay Unit Elevation (FT NAVD 88)
- NP Lower Clay Not Present
- Lower Clay Surface Elevation Contour (FT NAVD 88) Dashed Where Inferred
- Interpreted Limits of Lower Clay Unit
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

GPEC-SB222
-60.24

SB-33
NP

GPEC-SB333
-45.8

SB-34
-63.41

SB-27
-60.5

SB-28
NP

MASPETH AVE

SB-30
-67.96

SB-20/MW-8A,B,C
-66.69

SB-20J
-67.2

SB-29/MW-15B
-68.11

SB-26/MW-12B,C
NP

SB-16C
-69.06

SB-24/MW-10C
NP

SB-19
NP

SB-38/MW-18B,C
NP

SB-1C/MW1C
NP

SB-21/MW-14B
-65.47

SB-22
NP

SB-23/MW-09C
NP

VANDERVOORT AVE

SB-25/MW-11B,C
NP

1 Rewe St
(Fesco)

SB-36/MW-16B,C
NP

SB-31
-61.95

300 Maspeth Ave
(FEDEX)

SB-32
-54.55

7 and 9 Rewe St
(West Terminal, LLC)

SB-37/MW-17B,C
-78.12

SB-39/MW-19B,C
NP

REWE ST

Note:
Lower Clay elevation observed at SB-37/MW-17B,C is isolated and was not used to create Lower Clay elevation contours.

N

0 50 100
Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-10
LOWER CLAY SURFACE ELEVATION CONTOURS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7-2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_10_Lower_Clay_Surface_Elev_Contours.mxd

Legend

- Boring/Well Location
- -72.59 Top of Gardiners Clay Elevation (FT NAVD 88)
- Interpreted Limits of Lower Clay Unit
- Gardiners Clay Elevation Contour (FT NAVD 88) Dashed Where Inferred
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

GPEC-SB222 -63.74
SB-33 -67.73
SB-34 -82.91
SB-27 -81.5
SB-28 -72.59
MASPETH AVE
SB-30 -81.46
SB-24/MW-10C -94.95
SB-20/MW-8A,B,C -92.19
SB-20J -82.2
SB-26/MW-12B,C -83.06
SB-29/MW-15B -85.11
SB-16C -82.06
SB-19 -79.08
SB-1C/MW1C -84.14
SB-21/MW-14B -85.47
SB-22 -79.86
SB-38/MW-18B,C -101.75
SB-23/MW-09C -77.8
VANDERVOORT AVE
SB-25/MW-11B,C -92.87
SB-36/MW-16B,C -98.18
1 Rewe St (Fesco)
SB-31 -75.95
SB-32 -74.05
7 and 9 Rewe St (West Terminal, LLC)
300 Maspeth Ave (FEDEX)
SB-37/MW-17B,C -100.12
REWE ST
SB-39/MW-19B,C -84.90

-64 -66 -68 -70 -72 -74 -76 -78 -80 -82 -84 -86 -88 -90 -92 -94 -96 -98 -100

Note
Point SB-20 was not used to generate the clay contours based on professional judgement.

N

0 50 100
Scale in Feet

AECOM

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BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-11
GARDINERS CLAY SURFACE ELEVATION CONTOURS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_11_Gardiners_Clay_Surface_Elev_Contours.mxd

Legend

- Groundwater Elevation Contour (FT NAVD88) Dashed where inferred
- Groundwater Flow Direction
- 0.84 Groundwater Elevation (FT NAVD88)
- Monitoring Well
- Well Abandoned
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

MASPETH AVE

MW-6A
5.65

MW-2A
5.73

MW-3A
5.4

5.70

5.50

5.30

5.10

4.90

MW-5A
5.65

MW-4A
5.4

MW-7A
5.32

MW-1A
4.85

300 Maspeth Ave
(FEDEX)

VANDERVOORT AVE

1 Rewe St
(Fesco)

7 and 9 Rewe St
(West Terminal, LLC)

AECOM

N

0 25 50

Scale in Feet

NATIONAL GRID
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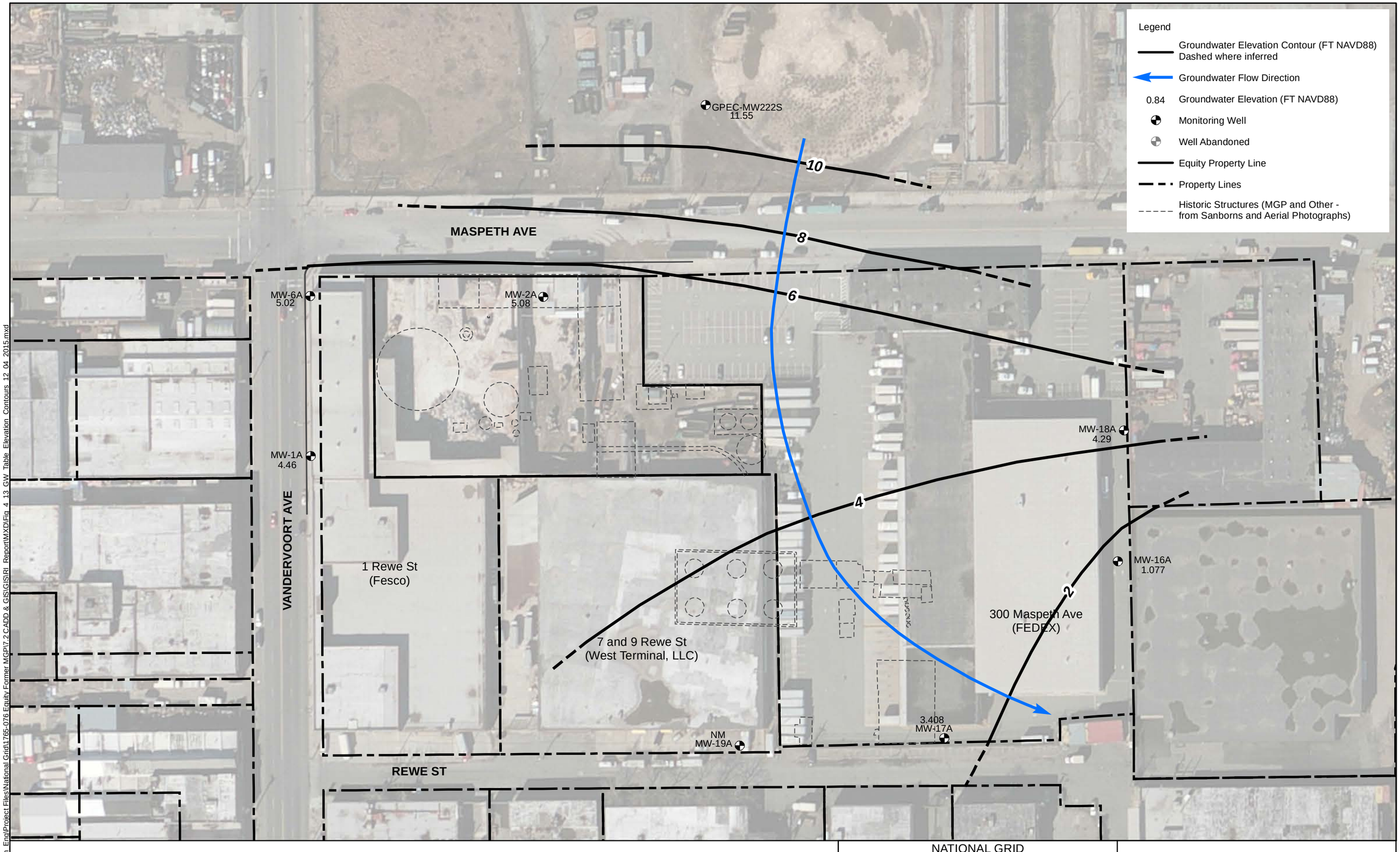
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-12
GROUNDWATER TABLE
ELEVATION CONTOURS
DECEMBER 11, 2009

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\d1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_12_GW_Table_Elevation_Contours_12_11_2009.mxd



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AECOM

N

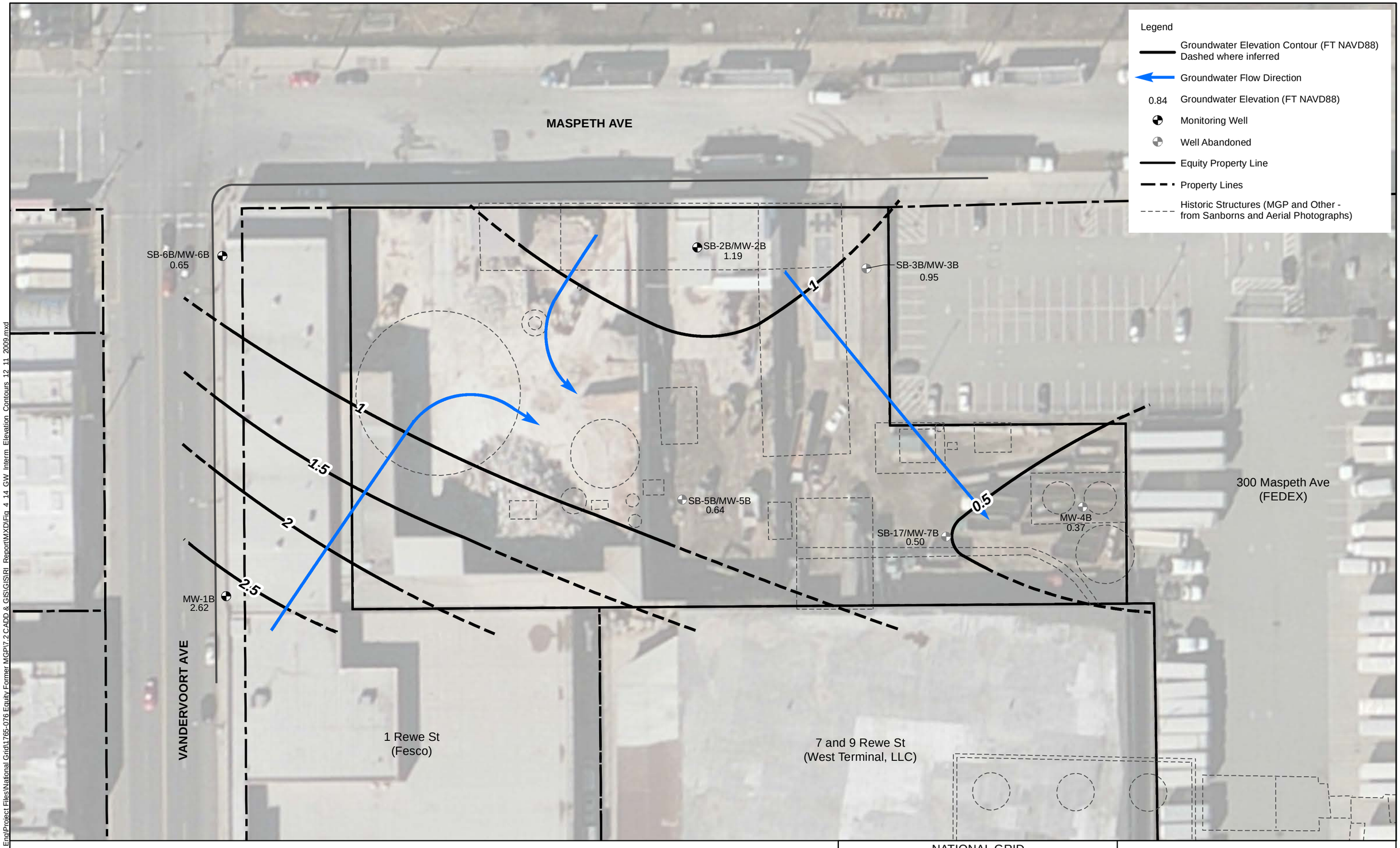
0 50 100

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-13
GROUNDWATER TABLE ELEVATION CONTOURS
DECEMBER 4, 2015



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_14_GW_Interm_Elevation_Contours_12_11_2009.mxd

AECOM

N

0 25 50

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-14
INTERMEDIATE ZONE GROUNDWATER
ELEVATION CONTOURS
DECEMBER 11, 2009

Legend

- Groundwater Elevation Contour (FT NAVD88) Dashed where inferred
- Groundwater Flow Direction
- 0.84 Groundwater Elevation (FT NAVD88)
- Monitoring Well
- Well Abandoned
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

MASPETH AVE

SB-6B/MW-6B
1.02

SB-2B/MW-2B
1.24

0.84
SB-26/MW-12B,C

1.5

2

1

0.5

SB-38/MW-18B,C
0.307

MW-1B
2.12

VANDERVOORT AVE

0.18
SB-25/MW-11B,C

1 Rewe St
(Fesco)

SB-36/MW-16B,C
0.071

300 Maspeth Ave
(FEDEX)

7 and 9 Rewe St
(West Terminal, LLC)

0

-0.057
SB-37/MW-17B,C

NM
SB-39/MW-19B,C

REWE ST

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_15_GW_Interm_Elevation_Contours_12_04_2015.mxd

AECOM

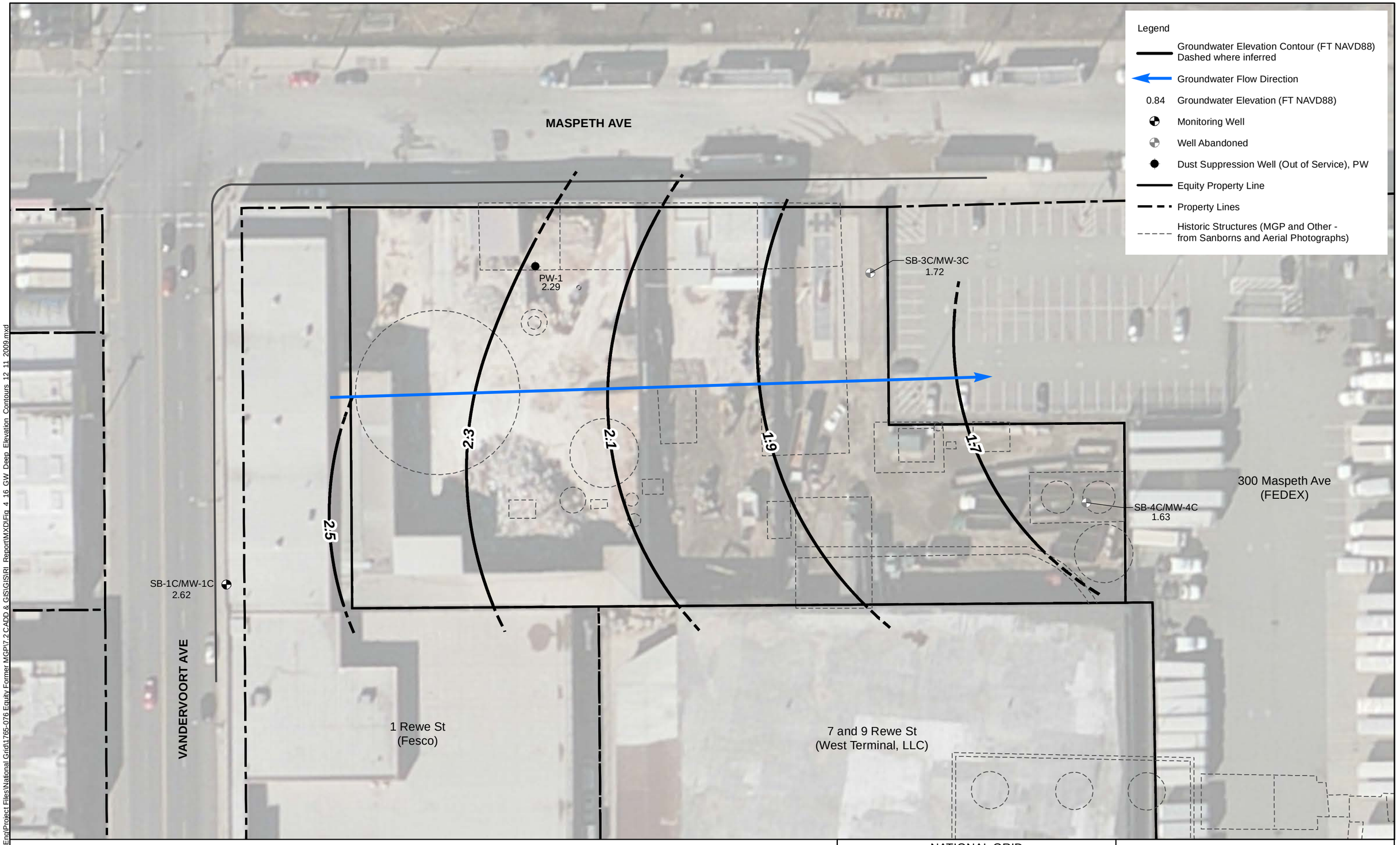
N

0 50 100
Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-15
INTERMEDIATE ZONE GROUNDWATER ELEVATION CONTOURS
DECEMBER 4, 2015



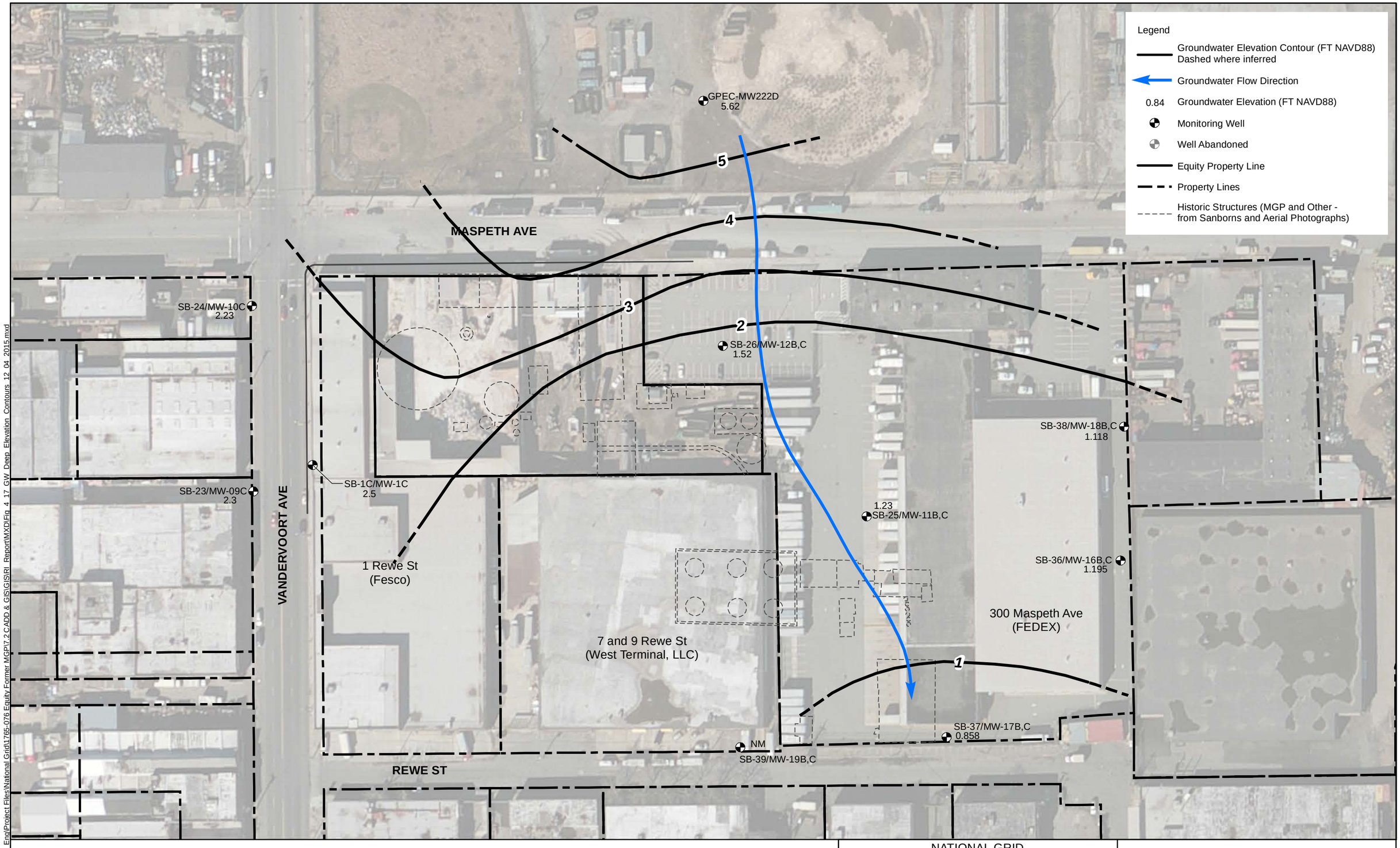
Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_16_GW_Deep_Elevation_Contours_12_11_2009.mxd

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-16
DEEP ZONE GROUNDWATER
ELEVATION CONTOURS
DECEMBER 11, 2009



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_4_17_GW_Deep_Elevation_Contours_12_04_2015.mxd

AECOM

N

0 50 100

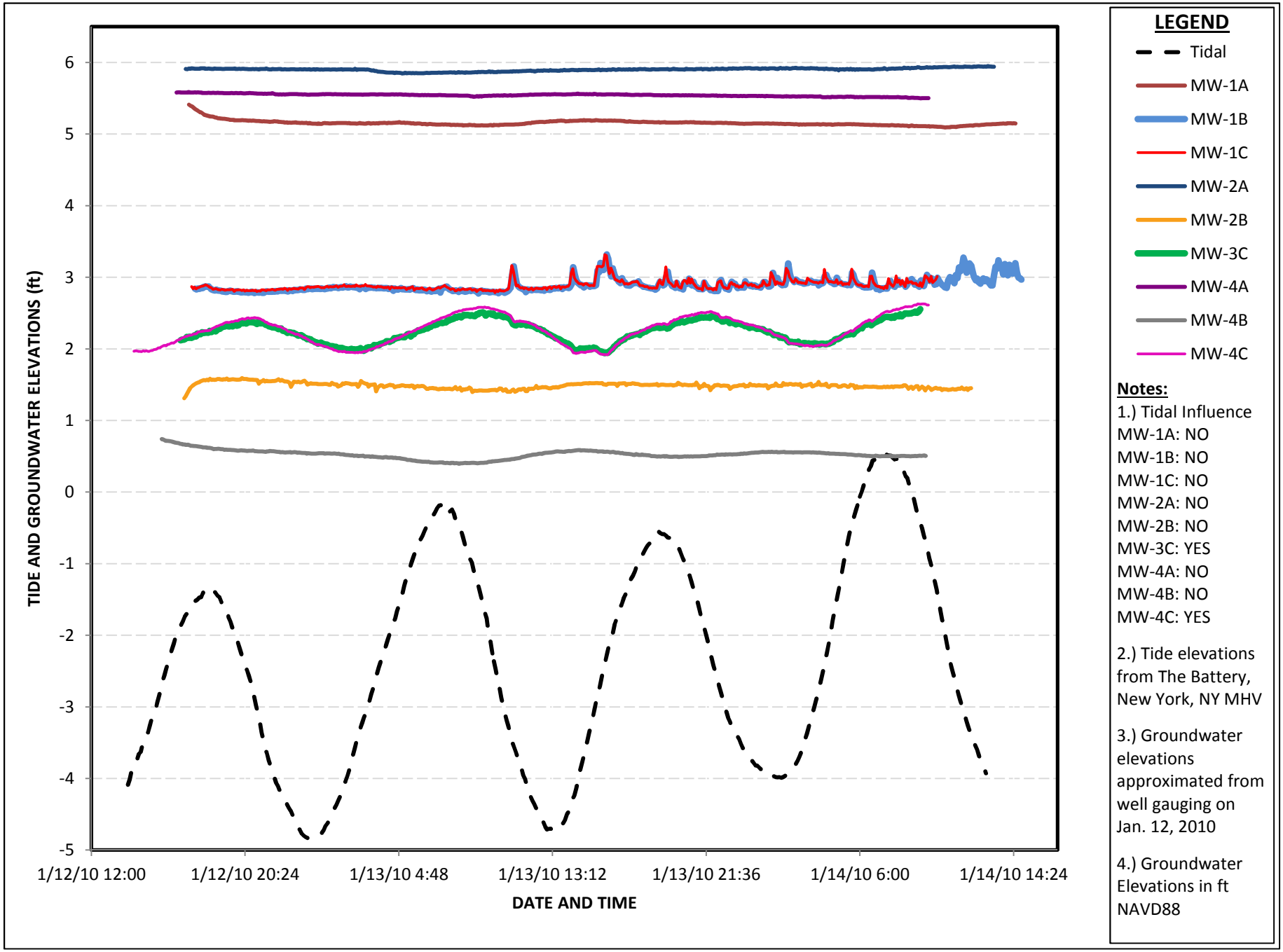
Scale in Feet

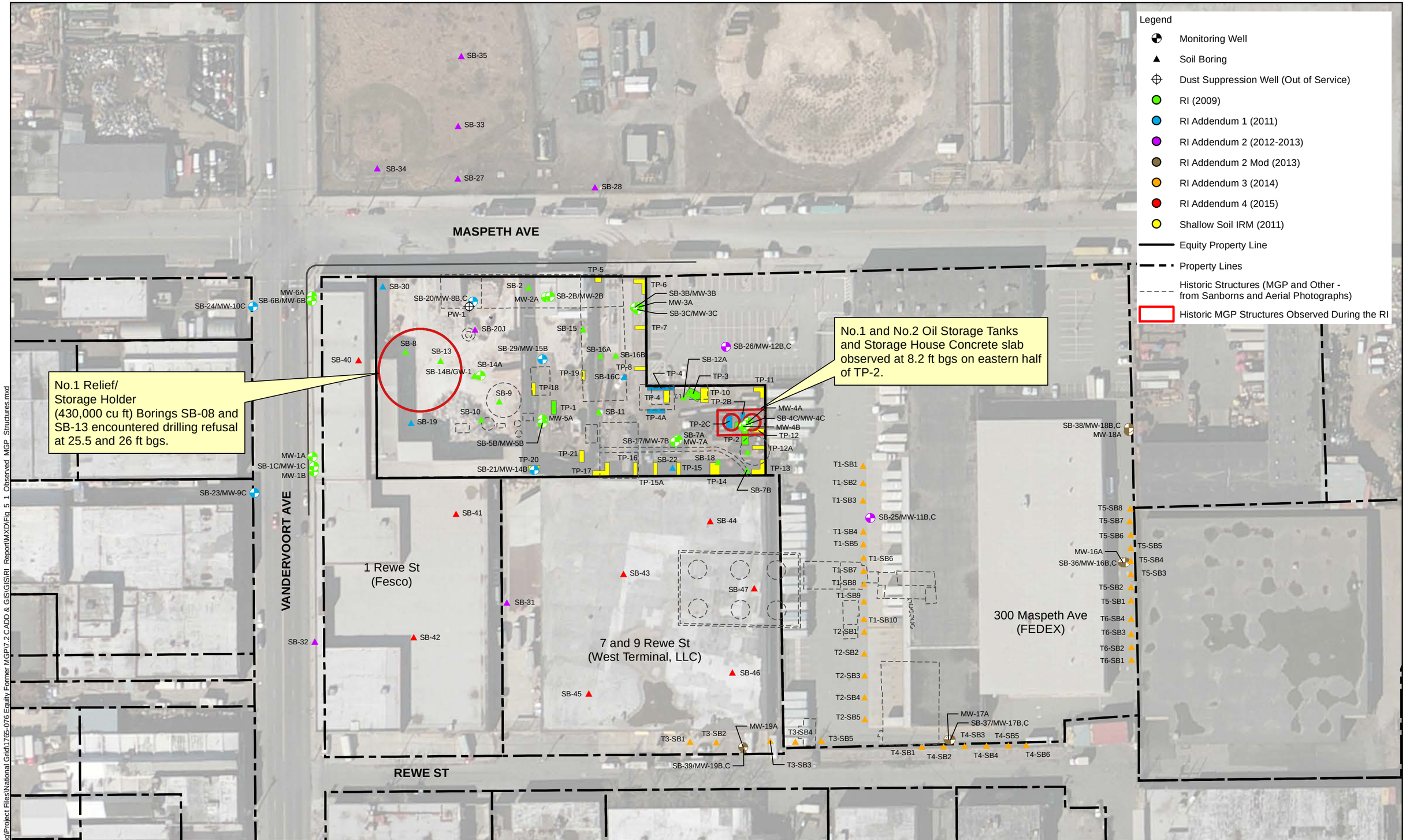
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 4-17
DEEP ZONE GROUNDWATER
ELEVATION CONTOURS
DECEMBER 4, 2015

Figure 4-18
Groundwater Elevation Tidal Cycle Monitoring Results
Former Equity Works MGP Site, Brooklyn, NY





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AECOM

N

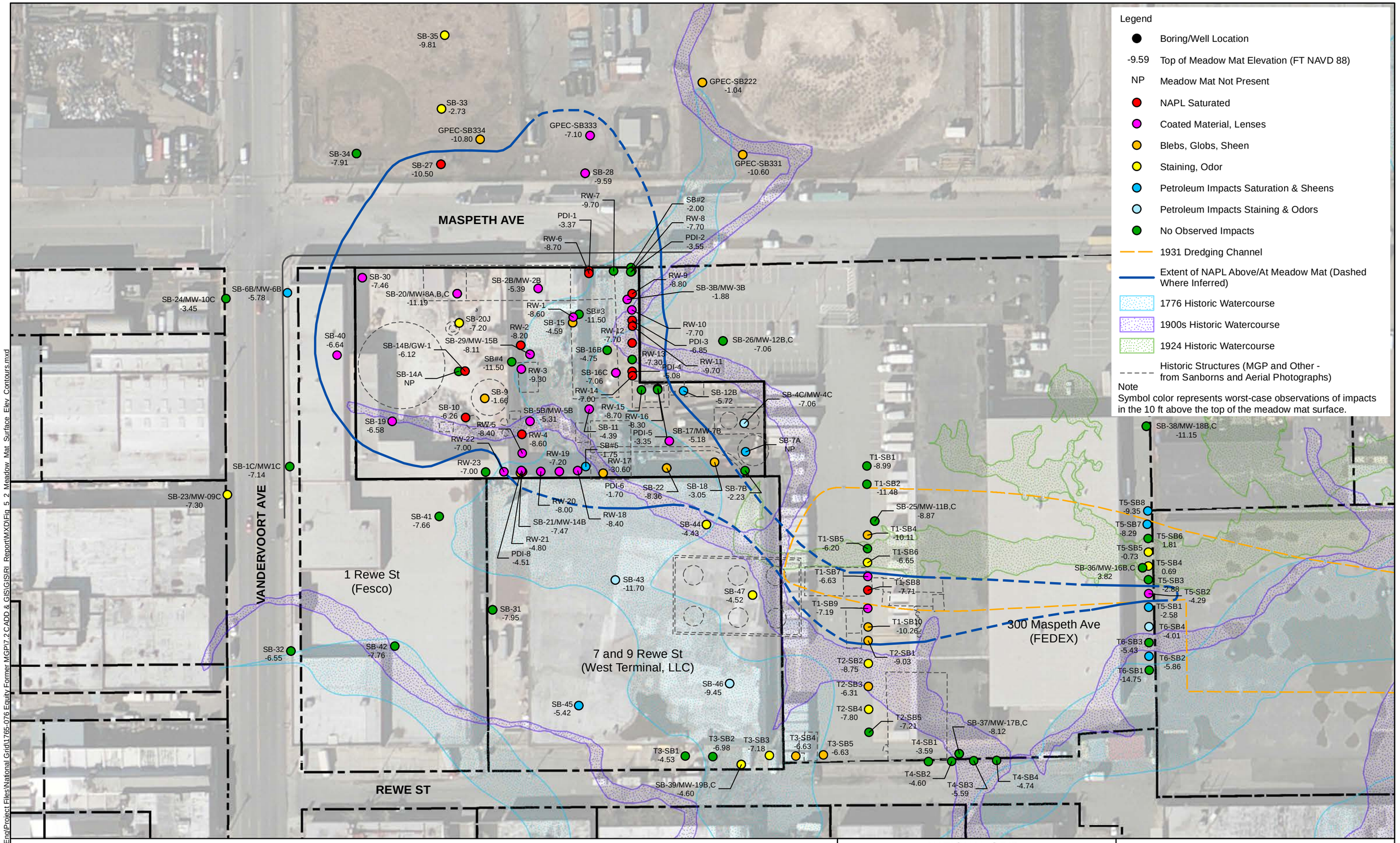
0 50 100

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 5-1
OBSERVED MGP STRUCTURES



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_2_Meadow_Mat_Surface_Elev_Contours.mxd

AECOM

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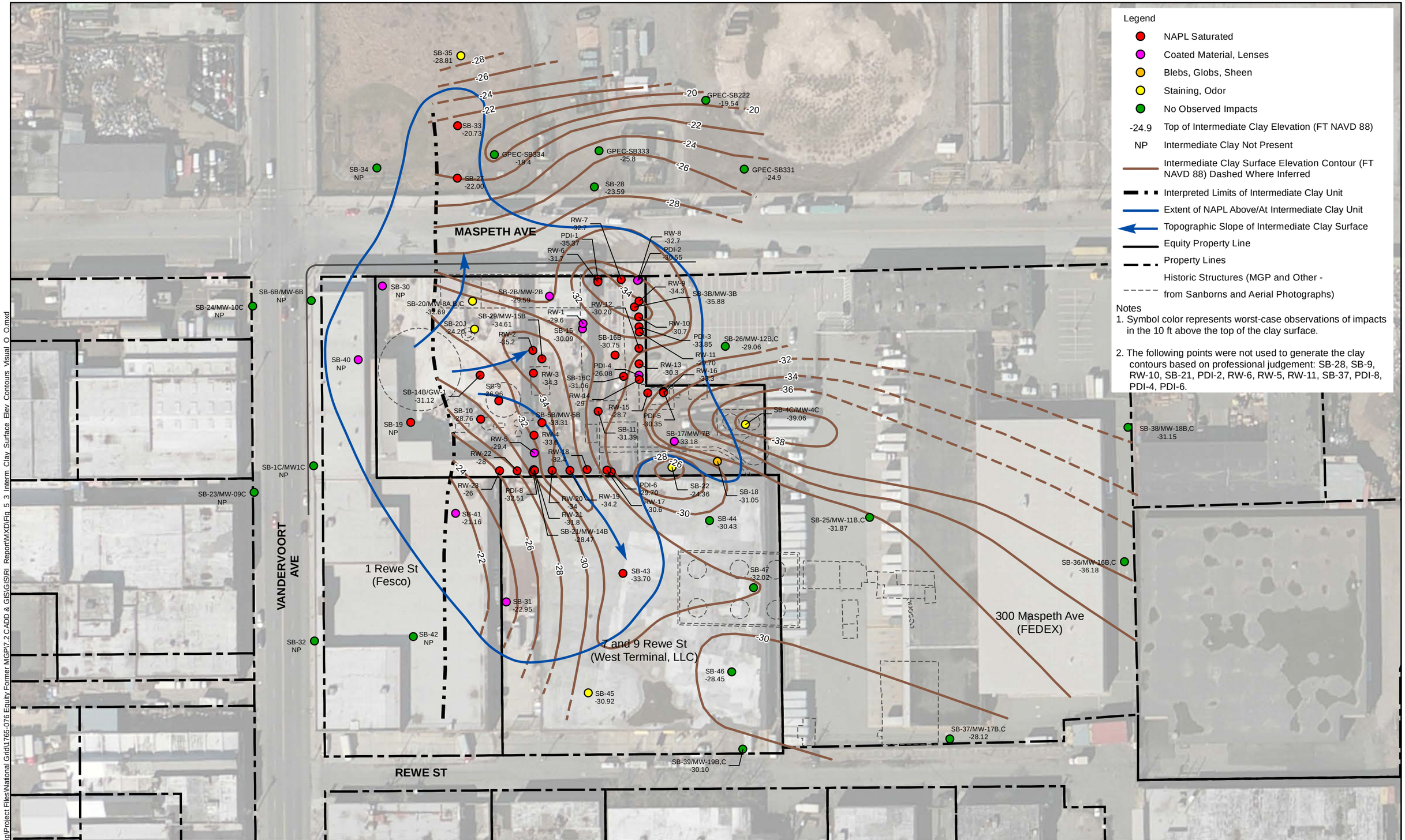
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-2
MEADOW MAT SURFACE ELEVATIONS AND VISUAL/OLFACTORY OBSERVATIONS


Legend
NAPL Saturated
Coated Material, Lenses
Blebs, Globs, Sheen
Staining, Odor
No Observed Impacts
-24.9 Top of Intermediate Clay Elevation (FT NAVD 88)
NP Intermediate Clay Not Present
Intermediate Clay Surface Elevation Contour (FT NAVD 88) Dashed Where Inferred
Interpreted Limits of Intermediate Clay Unit
Extent of NAPL Above/At Intermediate Clay Unit
Topographic Slope of Intermediate Clay Surface
Equity Property Line
Property Lines
Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)
Notes
1. Symbol color represents worst-case observations of impacts in the 10 ft above the top of the clay surface.
2. The following points were not used to generate the clay contours based on professional judgement: SB-28, SB-9, RW-10, SB-21, PDI-2, RW-6, RW-5, RW-11, SB-37, PDI-8, PDI-4, PDI-6.
MASPETH AVE
VANDERVOORT AVE
REWE ST
1 Rewe St (Fesco)
7 and 9 Rewe St (West Terminal, LLC)
300 Maspeth Ave (FEDEX)
SB-35 -28.81
SB-33 -20.73
GPEC-SB222 -19.54
GPEC-SB334 -19.4
GPEC-SB333 -25.8
GPEC-SB331 -24.9
SB-34 NP
SB-27 -22.00
SB-28 -23.59
RW-7 -32.7
PDI-1 -35.37
RW-8 -32.7
RW-6 -31.7
PDI-2 -30.55
RW-5 -34.3
SB-3B/MW-3B -35.88
SB-30 NP
SB-2B/MW-2B -29.59
SB-20/MW-8A,B,C -32.69
RW-12 -30.20
SB-6B/MW-6B NP
SB-24/MW-10C NP
SB-29/MW-15B -34.61
RW-1 29.6
SB-201 24.20
SB-15 -30.09
RW-10 -30.7
RW-2 -35.2
SB-16B -30.75
PDI-3 -33.85
SB-26/MW-12B,C -29.06
SB-40 NP
RW-11 -29.70
RW-13 -30.3
RW-16 -28.3
PDI-4 -26.08
SB-16C -31.06
RW-3 -34.3
SB-14B/GW-1 -31.12
SB-9 -26.96
RW-14 -29
RW-15 -28.7
SB-4C/MW-4C -39.06
SB-10 -28.76
SB-5B/MW-5B -33.31
PDI-5 -30.35
SB-19 NP
SB-11 -31.39
SB-17/MW-7B -33.18
SB-38/MW-18B,C -31.15
RW-4 -33.6
RW-5 -29.4
RW-22 -28
RW-18 -32.4
SB-1C/MW1C NP
SB-23/MW-09C NP
RW-23 -26
PDI-8 -32.51
RW-20 -34
RW-21 -31.8
SB-21/MW-14B -28.47
RW-19 -34.2
RW-17 -30.6
PDI-6 -29.70
SB-22 -24.36
SB-18 -31.05
SB-41 -21.16
SB-44 -30.43
SB-25/MW-11B,C -31.87
SB-43 -33.70
SB-47 -32.02
SB-36/MW-16B,C -36.18
SB-31 -22.95
SB-32 NP
SB-42 NP
SB-46 -28.45
SB-45 -30.92
SB-37/MW-17B,C -28.12
SB-39/MW-19B,C -30.10
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
N
0 50 100
Scale in Feet
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400
DATE: 03/30/2016
DRWN: JB
FIGURE 5-3
INTERMEDIATE CLAY SURFACE ELEVATION CONTOURS AND VISUAL/OLFACTORY OBSERVATIONS
AECOM
Path: P:\Jobs\Rem_Eng\Project Files\National Grid\176S-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_3_Interm_Clay_Surface_Elev_Contours_Visual_O_O.mxd

Legend

- NAPL Saturated
- Coated Material, Lenses
- Blebs, Globs, Sheen
- Staining, Odor
- No Observed Impacts
- -45.8 — Lower Clay Unit Elevation (FT NAVD 88)
- NP — Lower Clay Not Present
- Lower Clay Surface Elevation Contour (FT NAVD 88) Dashed Where Inferred
- Interpreted Limits of Lower Clay Unit
- Extent of NAPL Above/At Lower Clay
- Topographic Slope of Lower Clay Surface
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

Notes
1. Symbol color represents worst-case observations of impacts in the 10 ft above the top of clay surface.
2. Lower Clay elevation observed at SB-37/MW-17B,C is isolated and was not used to create Lower Clay elevation contours.

MASPETH AVE
VANDERVOORT AVE
REWE ST
1 Rewe St (Fesco)
7 and 9 Rewe St (West Terminal, LLC)
300 Maspeth Ave (FEDEX)

SB-33 NP
GPEC-SB222 -60.24
GPEC-SB333 -45.8
SB-34 -63.41
SB-27 -60.5
SB-28 NP
SB-30 -67.96
SB-20/MW-8A,B,C -66.69
PW-1
SB-20J -67.2
SB-29/MW-15B -68.11
SB-26/MW-12B,C NP
SB-16C -69.06
SB-24/MW-10C NP
SB-19 NP
SB-1C/MW1C NP
SB-21/MW-14B -65.47
SB-22 NP
SB-23/MW-09C NP
SB-38/MW-18B,C NP
SB-25/MW-11B,C NP
SB-36/MW-16B,C NP
SB-31 -61.95
SB-32 -54.55
SB-37/MW-17B,C -78.12
SB-39/MW-19B,C NP

-55 -56 -57 -59 -60 -61 -62 -63 -64 -65 -66 -67 -68 -69 -70

0 50 100
Scale in Feet

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/30/2016 | DRWN: JB

FIGURE 5-4
LOWER CLAY SURFACE ELEVATION CONTOURS
AND VISUAL/OLFACTORY OBSERVATIONS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_4_Lower_Clay_Surface_Elev_Contours_O_O.mxd

Legend

- NAPL Saturated
- Coated Material, Lenses
- Blebs, Globs, Sheen
- Staining, Odor
- No Observed Impacts
- -72.59 Top of Gardiners Clay Elevation (FT NAVD 88)
- Interpreted Limits of Lower Clay Unit
- Gardiners Clay Elevation Contour (FT NAVD 88) Dashed Where Inferred
- Extent of NAPL Above/At Gardiners Clay
- Topographic Slope of Gardiners Clay Surface
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

Notes

1. Symbol color represents worst-case observations of impacts in the 10 ft above the top of the meadow mat/clay surface.
2. SB-20 and SB-36 were not used to generate the clay contours based on professional judgement.

MASPETH AVE

VANDERVOORT AVE

REWE ST

1 Rewe St (Fesco)

7 and 9 Rewe St (West Terminal, LLC)

300 Maspeth Ave (FEDEX)

GPEC-SB222 -63.74
SB-33 -67.73
SB-34 -82.91
SB-27 -81.5
SB-28 -72.59
SB-30 -81.46
SB-24/MW-10C -94.95
SB-20/MW-8A,B,C -92.19
SB-20J -82.3
SB-26/MW-12B,C -83.06
SB-29/MW-15B -85.11
SB-16C -82.06
SB-19 -79.08
SB-1C/MW1C -84.14
SB-21/MW-14B -85.47
SB-22 -79.86
SB-23/MW-09C -77.8
SB-38/MW-18B,C -101.75
SB-25/MW-11B,C -92.87
SB-36/MW-16B,C -98.18
SB-31 -75.95
SB-32 -74.05
SB-37/MW-17B,C -100.12
SB-39/MW-19B,C -84.90

-64 -66 -68 -70 -72 -74 -76 -78 -80 -82 -84 -86 -88 -90 -92 -94 -96 -98 -100

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_5_Gardiners_Clay_Surface_Elev_Contours_O_O.mxd

AECOM

N

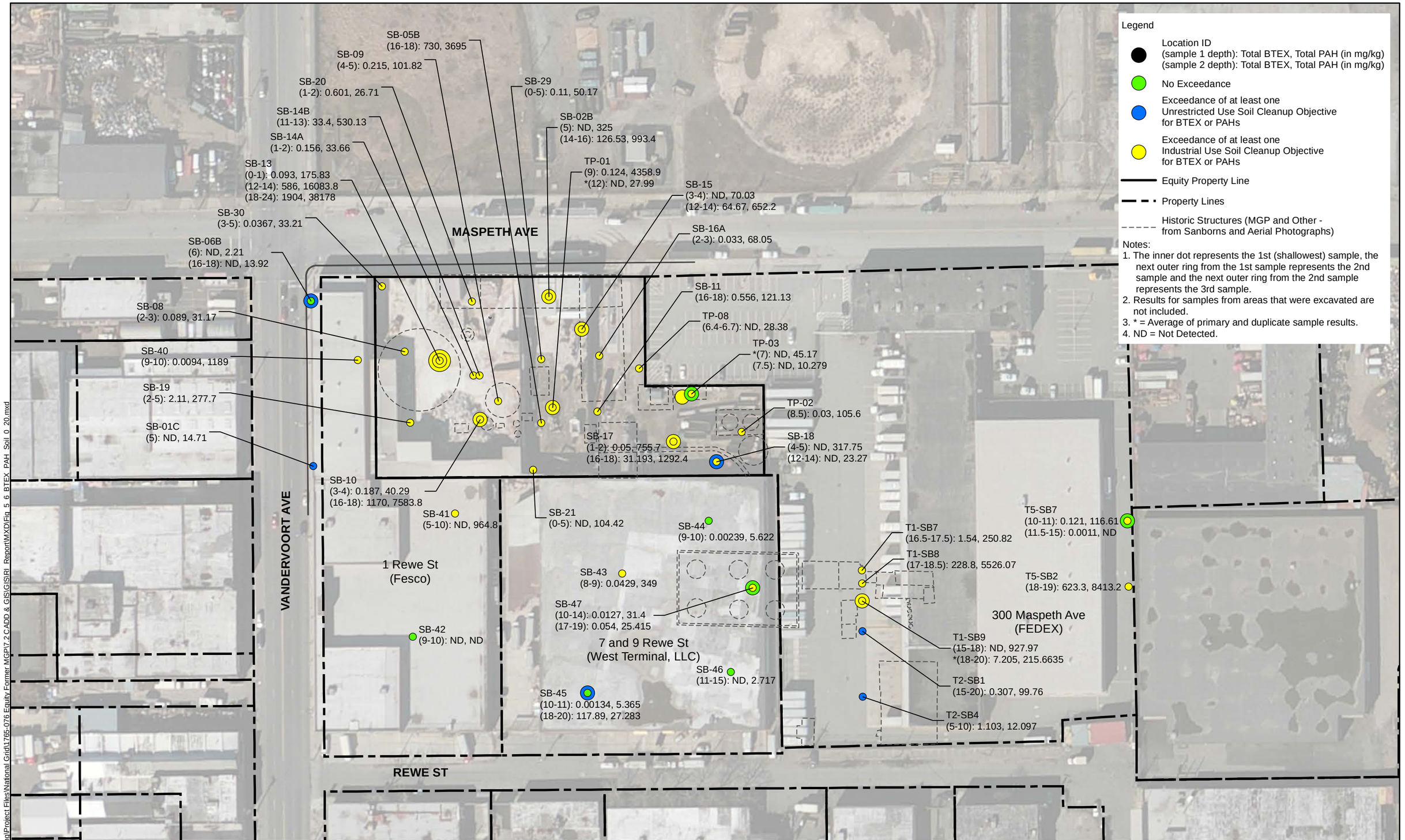
0 50 100

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-5
GARDINERS CLAY SURFACE ELEVATION CONTOURS AND VISUAL/OLFACTORY OBSERVATIONS



Legend

- Location ID
  (sample 1 depth): Total BTEX, Total PAH (in mg/kg)
  (sample 2 depth): Total BTEX, Total PAH (in mg/kg)
- No Exceedance
- Exceedance of at least one Unrestricted Use Soil Cleanup Objective for BTEX or PAHs
- Exceedance of at least one Industrial Use Soil Cleanup Objective for BTEX or PAHs
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

Notes:
1. The inner dot represents the 1st (shallowest) sample, the next outer ring from the 1st sample represents the 2nd sample and the next outer ring from the 2nd sample represents the 3rd sample.
2. Results for samples from areas that were excavated are not included.
3. * = Average of primary and duplicate sample results.
4. ND = Not Detected.

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\60137765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_6_BTEX_PAH_Soil_0_20.mxd

AECOM

N

0 50 100

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-6
SUMMARY OF ANALYTICAL RESULTS - BTEX AND PAHs IN SUBSURFACE SOIL SAMPLES FROM 0 TO 20 FT BGS

SB-35
(35-36): 0.00593, 0.249

SB-33
(35-36): 1010, 3398

SB-34
(35-36)*: 0.00861, ND

SB-28
(33-35): 0.006, ND

SB-14B
(20-22): 189, 573.91
(38-40): 1144, 16988

SB-06B
(26-28): 0.004, 0.27
(30-32): ND, 0.11

MASPETH AVE

SB-02B
(37-38): 370, 4363.9

SB-03B
(36-38): 3330, 27538

SB-08
(24-26): 4190, 25503

SB-15
(38-40): 57.6, 1741.4

SB-16B
(30-32): 39.4, 921.7

SB-17
(36-38): 14.403, 466.2

SB-04C
(36-38): ND, 0.24

SB-40
(20-23.5): 302.7, 681.8

SB-18
(38-40): 0.015, ND

SB-09
(20-21.5): 20.22, ND
(36-38): 2.283, 377.6

SB-07B
(38-40): 0.054, 3.41

SB-01C
(23-25): ND, 0.53

SB-11
(32-32.5): 48.5, 6488.6

SB-05B
(28-30): 41.4, 308.32

SB-44
(38-40): 4.47, 1.613

T1-SB7
(22-23): 0.00046, 1.849

T1-SB8
(23-24): 12.247, 10.799

SB-41
(35-37): 19.14, 323.65
(38-39): 0.5908, 3.516

T5-SB2
(21.5-25): ND, 1.293

1 Rewe St
(Fesco)

VANDERVOORT AVE

SB-31
(33-35): 0.00236, 0.75
(38-40): 98.4, 170.34

300 Maspeth Ave
(FEDEX)

7 and 9 Rewe St
(West Terminal, LLC)

SB-42
(35-37.5): ND, 0.028

T2-SB1
(21-22): 3.24, 0.882

REWE ST

Legend

- Location ID
  (sample 1 depth): Total BTEX, Total PAH (in mg/kg)
  (sample 2 depth): Total BTEX, Total PAH (in mg/kg)
- No Exceedance
- Exceedance of at least one Unrestricted Use Soil Cleanup Objective for BTEX or PAHs
- Exceedance of at least one Industrial Use Soil Cleanup Objective for BTEX or PAHs
- Equity Property Line
- Property Lines
- Historic Structures (MGP and Other - from Sanborns and Aerial Photographs)

Notes:
1. The inner dot represents the 1st (shallowest) sample, the next outer ring from the 1st sample represents the 2nd sample.
2. * = Average of primary and duplicate sample results.
3. ND = Not Detected.

AECOM

N

0 50 100
Scale in Feet

NATIONAL GRID
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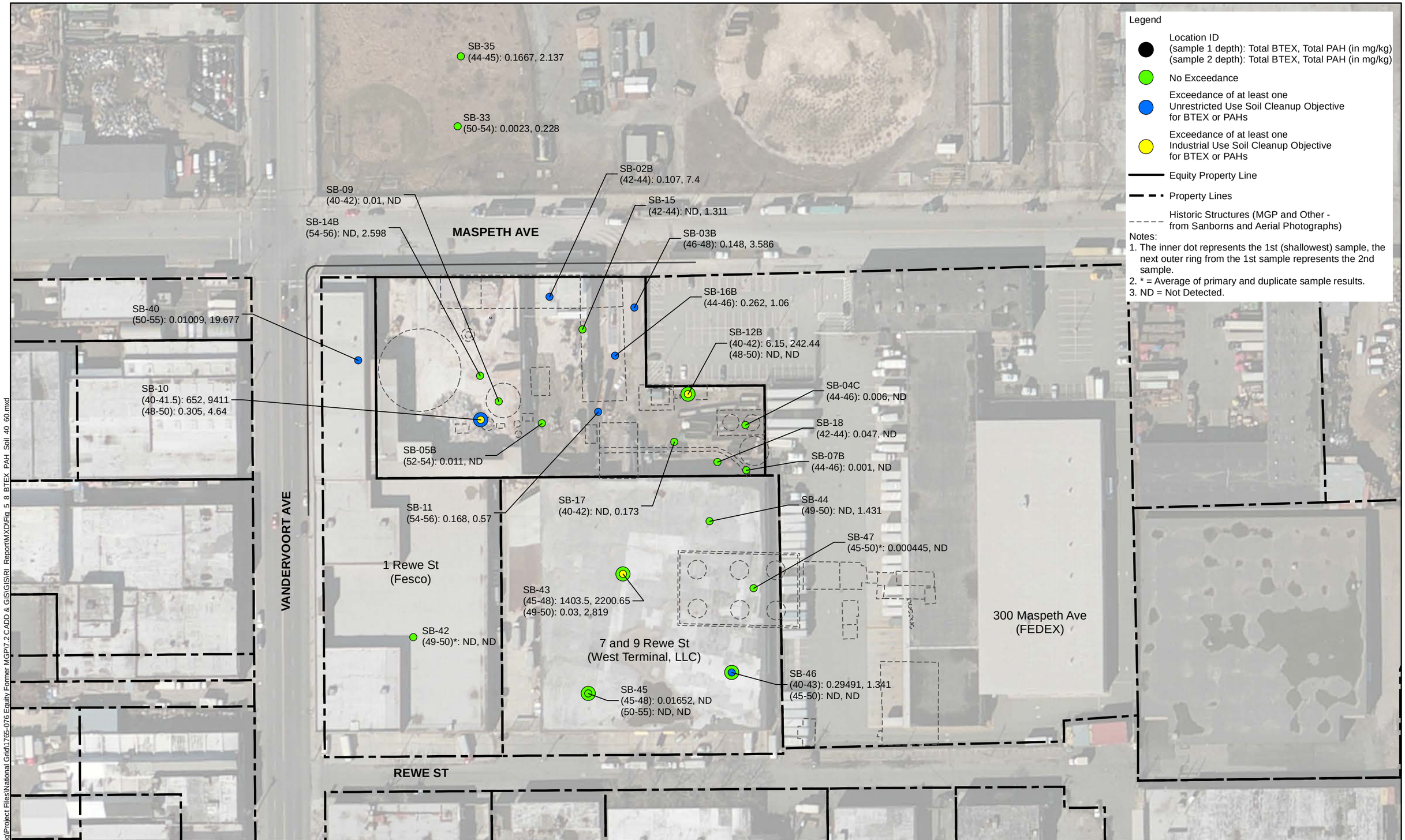
FIGURE 5-7
SUMMARY OF ANALYTICAL RESULTS - BTEX AND PAHs IN SUBSURFACE SOIL SAMPLES FROM 20 TO 40 FT BGS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_7_BTEX_PAH_Soil_20_40.mxd



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\t1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_8_BTEX_PAH_Soil_40_60.mxd

AECOM

N

0 50 100

Scale in Feet

NATIONAL GRID
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BROOKLYN, NY
60137362.400

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FIGURE 5-8
SUMMARY OF ANALYTICAL RESULTS - BTEX AND PAHs IN SUBSURFACE SOIL SAMPLES FROM 40 TO 60 FT BGS



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_9_BTEX_PAH_Soil_60_plus.mxd

AECOM

N

0 50 100

Scale in Feet

NATIONAL GRID
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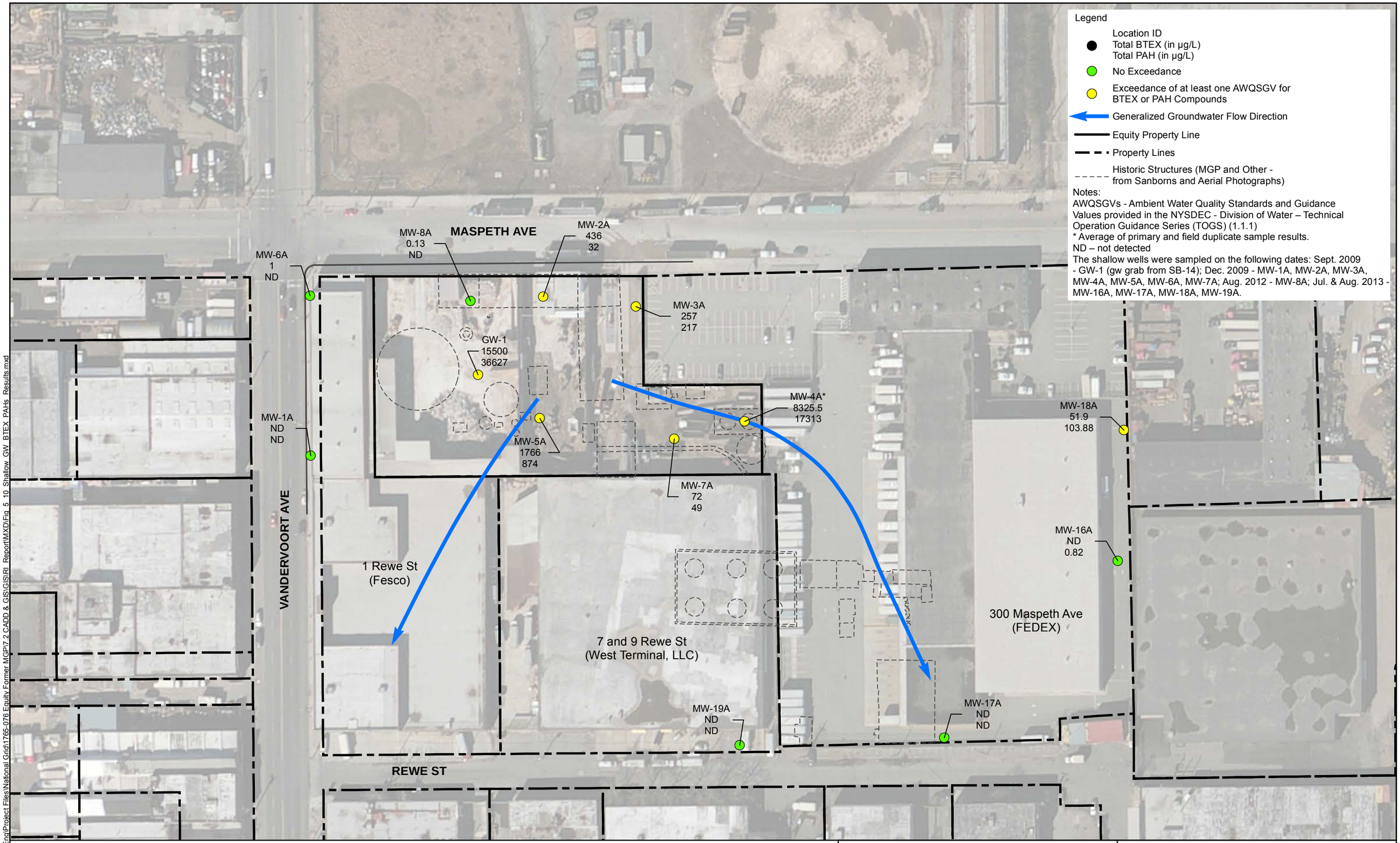
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-9
SUMMARY OF ANALYTICAL RESULTS -
BTEX AND PAHs IN SUBSURFACE SOIL
SAMPLES BELOW 60 FT BGS



Path: P:\Jobs\Rem. Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI Report\MXD\Fig 5_10 Shallow GW BTEX PAHs Results.mxd

AECOM

N

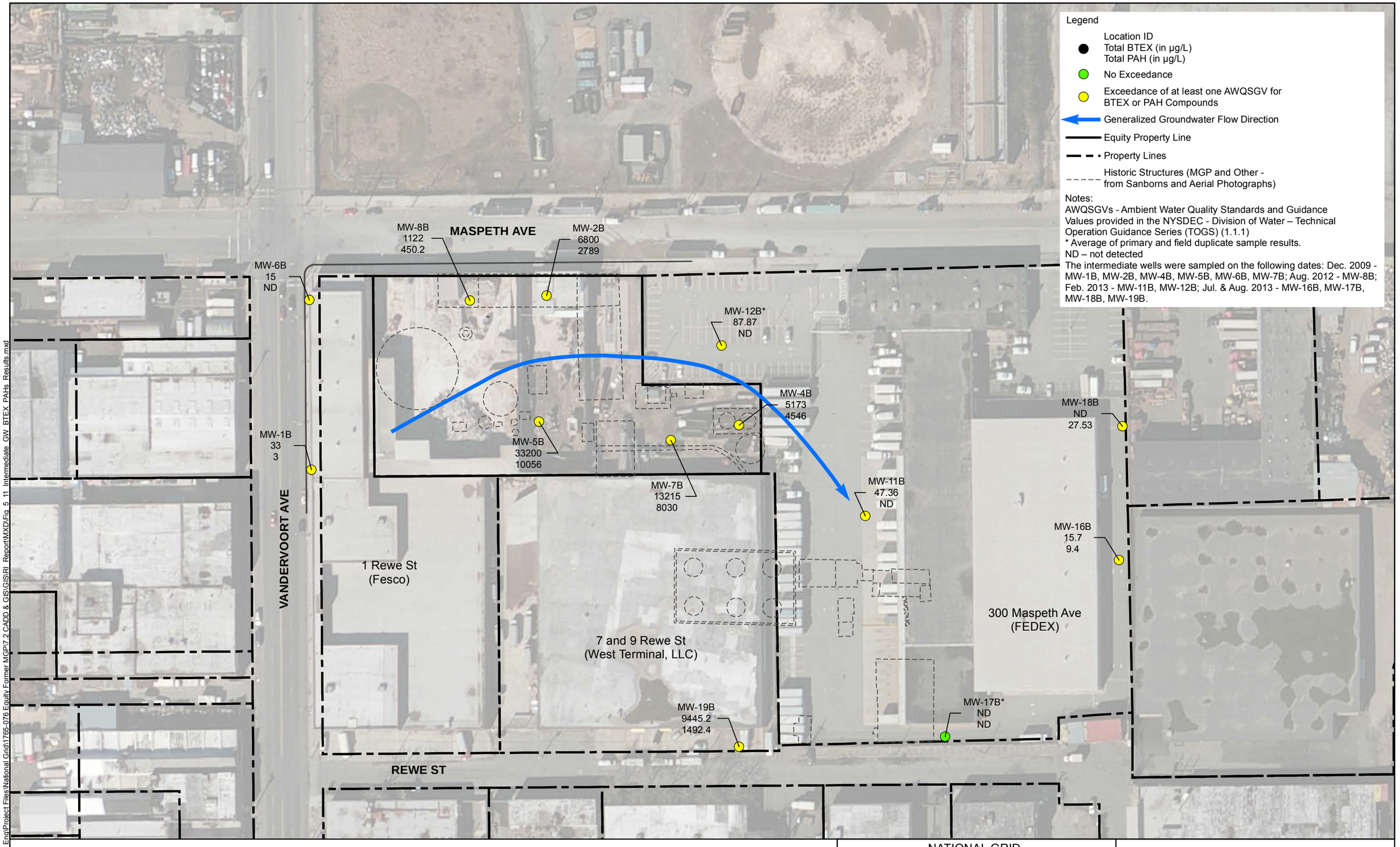
0 50 100

Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-10
SUMMARY OF ANALYTICAL RESULTS IN GROUNDWATER - BTEX AND PAHs IN GROUNDWATER TABLE WELLS



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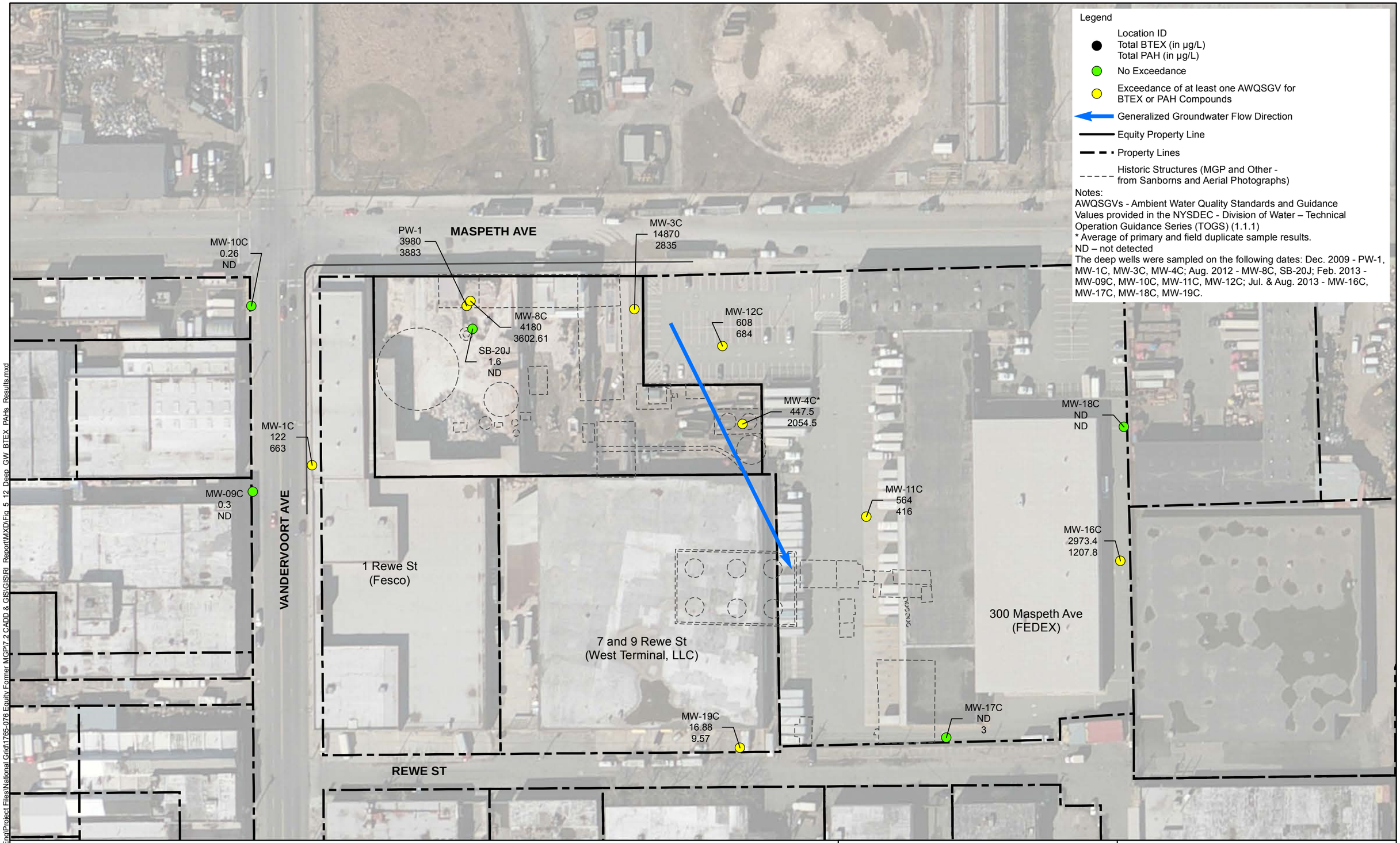
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-11
SUMMARY OF ANALYTICAL RESULTS IN GROUNDWATER - BTEX AND PAHs IN INTERMEDIATE WELLS

Path: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_11_Intermediate_GW_BTEX_PAHs_Results.mxd



Path: P:\Jobs\Rem_Eng\Project Files\National Grid\17765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_5_12_Deep_GW_BTEX_PAHs_Results.mxd

AECOM

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FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-12
SUMMARY OF ANALYTICAL RESULTS IN GROUNDWATER - BTEX AND PAHs IN DEEP WELLS

Typical Background Indoor Air Concentrations (Non-Residential) [a]

Compound (µg/m³)	222 Maspeth Ave														
	Ambient Air AMB 11/17/2009	Indoor Air IA-1 [b] 11/17/2009	Soil Vapor SV-1 [c] 11/17/2009	Ambient Air AMB-1 3/14/2010	Indoor Air IA-1 [b] 3/14/2010	Indoor Air IA-1-DUP [b] 3/14/2010	Soil Vapor SV-1 [c] 3/14/2010	Ambient Air AMB 8/28/2010	Indoor Air IA-1 [b] 8/28/2010	Soil Vapor SV-1 [c] 8/28/2010	Ambient Air AMB-1 2/12/2011	Indoor Air IA-1 [b] 2/12/2011	Indoor Air IA-1-Dup [b] 2/12/2011	Soil Vapor SV-1 [c] 2/12/2011
1,2,4-Trimethylbenzene	**7.67**	**8.7**	**92.9**	0.92 U	**5.3**	**5**	**17**	**11.5**	**96.8**	**11.7**	**1.47**	**7.03 J**	**10 J**	0.786 U
1,3,5-Trimethylbenzene	**2.21**	**1.87**	**23.5**	0.92 U	**1.5**	**1.3**	**4.9**	**3.88**	**31.6**	**3.54**	0.787 U	**2.11 J**	**3.29 J**	0.787 U
2-Butanone	**5.84**	**7.93**	**1.47 J**	**2.4**	**7.3**	**6.9**	**0.88**	**8.35**	**15**	**4.75**	**2.04 J**	**4.78**	**4.19**	**0.472 J**
4-Ethyltoluene	**2.41 J**	**3.24 J**	**24.9**	0.92 U	**3.4**	**3.2**	**8.3**	**3.24**	**22.6**	**2.8**	3.93 U	**1.16 J**	**2.56 J**	3.93 U
Carbon disulfide	2.49 U	2.49 U	**1.99 J**	2.9 U	2.6 U	2.6 U	2.6 U	**0.654**	**1.43**	**7.54**	2.49 U	2.49 U	2.49 U	**1.03 J**
Carbon tetrachloride	1.01 U	1.01 U	1.01 U	1.2 U	1.0 U	1.0 U	1.0 U	**72.3**	**43.1**	**15.5**	1.01 U	1.01 U	1.01 U	1.01 U
Chloroform	0.781 U	0.781 U	0.781 U	0.91 U	0.80 U	0.80 U	**1.2**	0.781 U	**2.1**	**23.5**	0.781 U	**1.12 J**	**1.17 J**	**5.03 J**
Dichlorodifluoromethane	**7.71**	**8.65**	**41.6**	**2.5**	**2.2**	**2.1**	**13**	**2.37**	**3.12**	**10.5**	0.791 U	0.791 U	0.791 U	**17.7**
Ethanol	**65.9**	**68.4**	**1.56**	**8.1**	**110**	**100**	**7.8**	**70.7**	**1250**	**66.3**	**43.2**	**386**	**386**	**7.33**
Ethylbenzene	**4**	**9.51**	**56.5**	0.81 U	**2.2**	**2.2**	**2.6**	**6.78**	**11.8**	**3.04**	**1.04**	**3.82**	**3.91**	0.695 U
m+p-Xylene	**13.6**	**22.4**	**136**	**1.1**	**7.2**	**6.6**	**7**	**21.9**	**39.9**	**7.77**	**3.43**	**12.9**	**14.6**	0.695 U
Methylene chloride	**13.8**	**11.9**	**3.34**	1.3 U	1.1 U	1.1 U	1.1 U	**8.75 J**	**8.72 J**	**6.39 J**	**6.95 J**	**14.3 J**	**12.9 J**	**5.71 J**
Naphthalene	**2.99 J**	**27.2 J**	**280 J**	4.9 U	**23**	**22**	**42**	**0.996**	**2.94**	**1.15**	4.19 UJ	4.19 UJ	4.19 UJ	4.19 UJ
o-Xylene	**4.56 J**	**8.08 J**	**69.1 J**	0.81 U	**3**	**2.8**	**6.1**	**6.69**	**13.9**	**3.39**	**1.09**	**4.56**	**5.17**	0.695 U
Styrene	**3.02**	**4.09**	**26.4**	0.80 U	**1.7**	**1.5**	0.70 U	**4.34**	**5.45**	**0.979**	0.682 U	**0.682**	**1.02**	0.682 U
Tetrachloroethene	**2.44**	**4**	**66**	**28**	**2**	**2**	**30**	1.08 U	**3.46**	**138**	1.09 U	**5.02 J**	**2.24 J**	**43.6**
Toluene	**76.5**	**107**	**57.7**	**2**	**6.6**	**6.4**	**2.6**	**50.9**	**53.5**	**15**	**26.2**	**52.4**	**45.2**	**0.753**
Trichloroethene	0.860 U	**1.4**	**4.3**	1.0 U	0.88 U	0.88 U	**2.3**	**6.34**	**5.91**	**3.22**	0.860 U	0.860 U	0.860 U	**4.03**
Trichlorofluoromethane	**6.24**	**4.89**	**15.8**	**1.3**	**1.3**	**1.3**	**13**	**2.81**	**5.23**	**25.3**	**1.74**	**2.02**	**1.91**	**22.8**

Typical Background Indoor Air Concentrations (Non-Residential) [a]

Compound (µg/m³)	Ambient Air OA-1 3/25/2015	1 Rewe St (north end) Indoor Air IA-A 3/25/2015	1 Rewe St (north end) Indoor Air IA-A-DUP 3/25/2015	1 Rewe St (north end) Soil Vapor SG-A 3/25/2015	1 Rewe St (south end) Indoor Air IA-B 3/25/2015	1 Rewe St (south end) Soil Vapor SG-B 3/25/2015
2-Butanone	**2.7 J**	**10**	**5.8**	**25**	**3.4**	**4.7**
Acetone	**20**	**63**	**35 J**	**300**	**16 J**	**45**
Carbon disulfide	1.6 U	1.6 U	1.6 U	**8.2**	1.6 U	**0.68 J**
Chloroform	0.98 U	**0.23 J**	**0.19 J**	**1.7**	**0.22 J**	**0.97**
Dichlorodifluoromethane	**2.2**	**2.3**	**2.4**	**20**	**2.4**	**4.2**
Ethanol	**92**	**110**	**120**	**1200**	**130**	**190**
Styrene	0.85 U	**6**	**4.6**	**4.9**	**5.3**	**3.9**
Trichlorofluoromethane	**1.2**	**1.4**	**1.2**	**86**	**1.3**	**17**

Typical Background Indoor Air Concentrations (Non-Residential) [a]

Compound (µg/m³)	252 Maspeth Ave Ambient Air AMB 11/17/2009	Indoor Air IA-2 [d] 11/17/2009	Soil Vapor SV-2 [e] 11/17/2009	Ambient Air AMB-1 3/14/2010	Indoor Air IA-2 [d] 3/14/2010	Soil Vapor SV-2 [e] 3/14/2010
1,2,4-Trimethylbenzene	**7.67**	**5.41**	**35.4**	0.92 U	**1.6**	**17**
1,3,5-Trimethylbenzene	**2.21**	**1.33**	**8.85**	0.92 U	0.78 U	**6.9**
2-Butanone	**5.84**	**4.45**	**15.3 J**	**2.4**	**1.7**	2.4 U
4-Ethyltoluene	**2.41 J**	**1.43 J**	**13.3 J**	0.92 U	**1.4**	**17**
Acetone	**35.6**	**18.3**	**139**	**33**	**17**	9.7 U
Carbon disulfide	2.49 U	2.49 U	**27.4**	2.9 U	2.5 U	13 U
Chloroform	0.781 U	0.781 U	**24.9**	0.91 U	0.77 U	4.0 U
Ethanol	**65.9**	**301 D**	15.1 U	**8.1**	**8.5**	7.7 U
Ethylbenzene	**4**	**3.13**	**47.8**	0.81 U	**0.88**	**7.6**
Hexane	**4.37**	**10.9**	28.2 U	0.66 U	**2**	2.9 U
m+p-Xylene	**13.6**	**11**	**123**	**1.1**	**3**	**18**
Methylene chloride	**13.8**	**5.21**	**9.73 J**	1.3 U	1.1 U	5.7 U
Naphthalene	**2.99 J**	**1.36 J**	**82.3 J**	4.9 U	4.1 U	**28**
o-Xylene	**4.56 J**	**4.13 J**	**44.7 J**	0.81 U	**1**	**13**
Styrene	**3.02**	0.681 U	**17.5**	0.80 U	0.67 U	3.5 U
Tetrachloroethene	**2.44**	1.08 U	**1870**	**28**	**2.2**	**1100**
Toluene	**76.5**	**22.6**	**73.5**	**2**	**3.6**	**3.6**
Trichloroethene	0.860 U	0.860 U	**1790**	1.0 U	**1.5**	**810**
Trichlorofluoromethane	**6.24**	**1.8**	**21.4**	**1.3**	**0.96**	**9.5**

Typical Background Indoor Air Concentrations (Non-Residential) [a]

Compound (µg/m³)	Ambient Air OA-1 3/25/2015	7-9 Rewe St Indoor Air IA-C 3/25/2015	7-9 Rewe St Soil Vapor SG-C 3/25/2015
1,3-Butadiene	0.88 U	0.88 U	**3.7**
Hexane	**0.88 J**	**16**	**4.0**
Styrene	0.85 U	**3.3**	**2.3**
Tetrachloroethene	**0.41 J**	**35**	**24**

Compound (µg/m³)	Typical Background Indoor Air Concentrations (Non Residential) [a]
1,2,4-Trimethylbenzene	9.5
1,3,5-Trimethylbenzene	3.7
1,3-Butadiene	3
2-Butanone	12
4-Ethyltoluene	3.6
Acetone	98.9
Carbon disulfide	4.2
Carbon tetrachloride	1.3
Chloroform	1.1
Dichlorodifluoromethane	16.5
Ethanol	210
Ethylbenzene	5.7
Hexane	10.2
m+p-Xylene	22.2
Methylene chloride	10
Naphthalene	5.1
o-Xylene	7.9
Styrene	1.9
Tetrachloroethene	15.9
Toluene	43
Trichloroethene	4.2
Trichlorofluoromethane	18.1

MASPETH AVE

VANDERVOORT AVE

REWE ST

AMB-1

IA-1 SV-1

IA-2 SV-2

IA-A SG-A

IA-B SG-B

IA-C SG-C

OA-1

1 Rewe St (Fesco)

7 and 9 Rewe St (West Terminal, LLC)

300 Maspeth Ave (FEDEX)

Notes:
All units in micrograms per cubic meter (µg/m³). Typical Background Indoor Air Concentrations (Non-Residential) [a]
[a] Typical non-residential background indoor air concentrations are equal to the 90th percentile values observed by the USEPA in a 2001 study which are the values recommended for comparison in the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, October 2006), Table C2.
[b] At 222 Maspeth Ave, IA-1 was collected from the ground floor (locker room area) of the office structure.
[c] At 222 Maspeth Ave, SV-1 was collected at the same location as IA-1 from directly below the concrete floor slab.
[d] At 252 Maspeth Ave, IA-2 was collected from the ground floor of the mechanics shop.
[e] At 252 Maspeth Ave, SV-2 was collected at the same location as IA-2 from directly below the concrete floor slab.
Bold - Compound detected in a concentration greater than the method reporting limits.
Exceeds NYSDOH NonRes Typical Background Indoor Air
Dup - As suffix on Sample ID indicates that the sample is a field duplicate.
U - The compound was analyzed for, but was not detected above the method reporting limit.
J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be UJ - inaccurate or imprecise

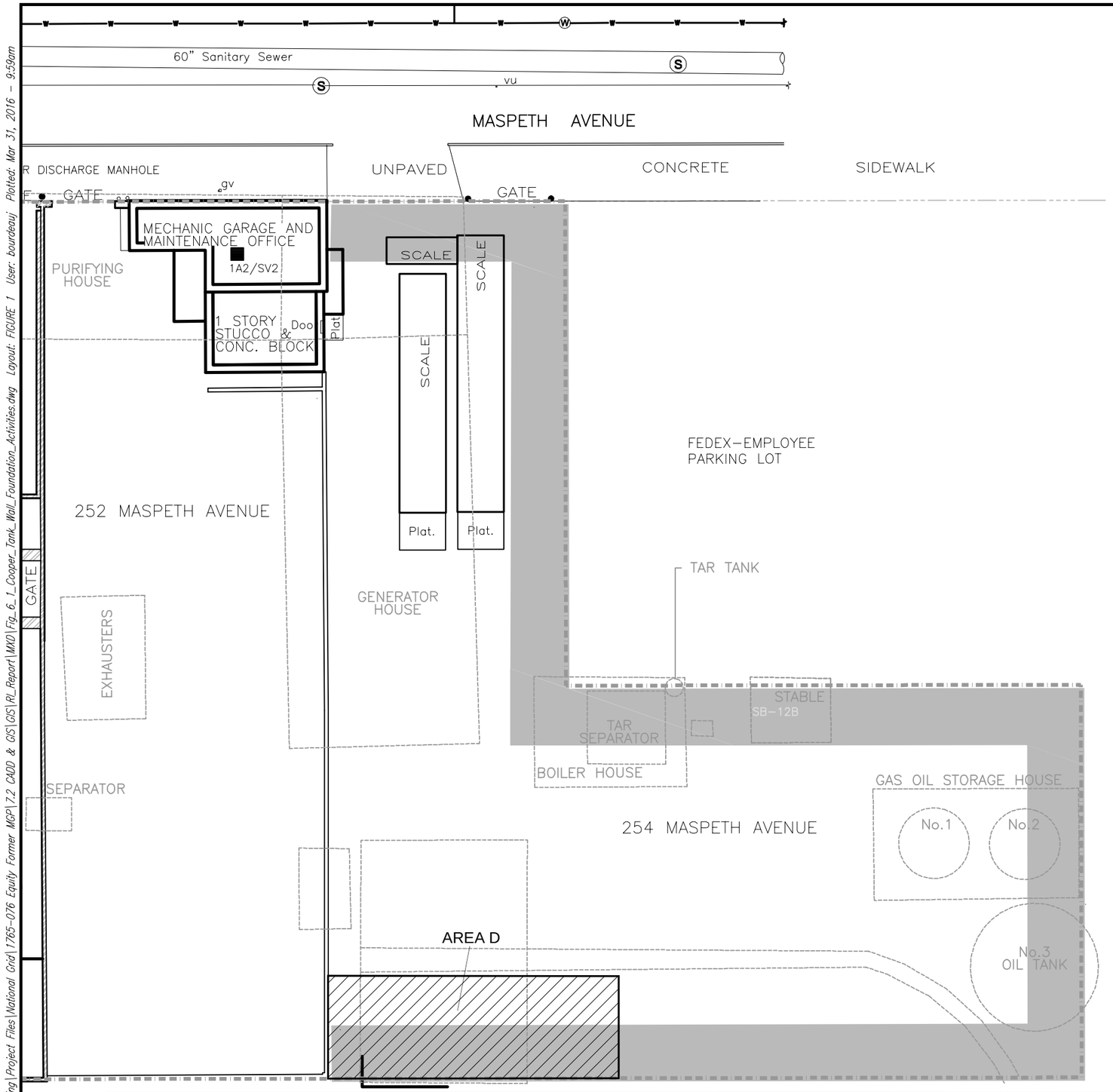
AECOM

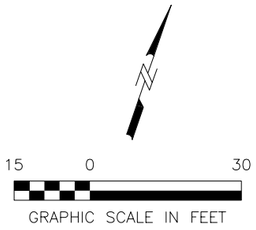
0 60 120
Scale in Feet

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE
BROOKLYN, NY
60137362.400

DATE: 03/31/2016 | DRWN: JB

FIGURE 5-13
ANALYTICAL DETECTIONS SUMMARY
FOR AMBIENT AIR, INDOOR AIR, AND
SUB SLAB SOIL VAPOR





LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- E — UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- AMB–1 — AMBIENT AIR
- 1A1/SV1 — INDOOR AIR/ SOIL VAPOR
- PW–1 — ON–SITE PUMPING WELL
- GW–1 — TEMPORARY MONITORING WELL
- HISTORIC STRUCTURE
- PERIMETER WALL FOOTPRINT
- AREA WHERE STONE WAS REMOVED FOR SITE RE–USE

NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.

3.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS.
* LOCATIONS BASED ON FIELD TIE–INS BY AECOM.

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

60137362.400

DATE: 03/31/16 | DRWN: JB

FIGURE 6-1
COOPER TANK WALL FOUNDATION AND SEWER REPLACEMENT ACTIVITIES (252 AND 254 MASPETH AVENUE)

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765–076 Equity Former MGP\7.2 CADD & GIS\GIS\RL Report\MXD\Fig_6_1_Cooper_Tank_Wall_Foundation_Activities.dwg Layout: FIGURE 1 User: bourdeauj Plotted: Mar 31, 2016 – 9:59am

MASPETH AVENUE

B-1 SEWER DISCHARGE MANHOLE

GATE GATE

gv

UNPAVED

CONCRETE

SIDEWALK

GATE

MECHANIC GARAGE AND MAINTENANCE OFFICE

1A2/SV2

1 STORY STUCCO & CONC. BLOCK

Doo

Plat

RAMP

SCALE

SCALE

SCALE

Plat.

Plat.

252 MASPETH AVENUE

FEDEX-EMPLOYEE PARKING LOT

GATE

AREA A
(7-8' BGS)

AREA B
(4.9-6.3' BGS)

AREA C
(5.1-7.3' BGS)

254 MASPETH AVENUE

FEDEX PROPERTY

AREA D
(7.9-8.3' BGS)

PAVED ALLEY

7 REWE STREET

LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- AS-BUILT EXCAVATION SURVEYED LIMITS PROVIDED BY PERFECT POINT SURVEYING

NOTES:

1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. ADDITIONAL DETAILS ARE PROVIDED IN THE TEST PIT LOGS AND HISTORIC DRAWINGS AND PHOTOS ATTACHED TO THE CONTRACT DOCUMENTS.

N

15 0 30

GRAPHIC SCALE IN FEET

AECOM

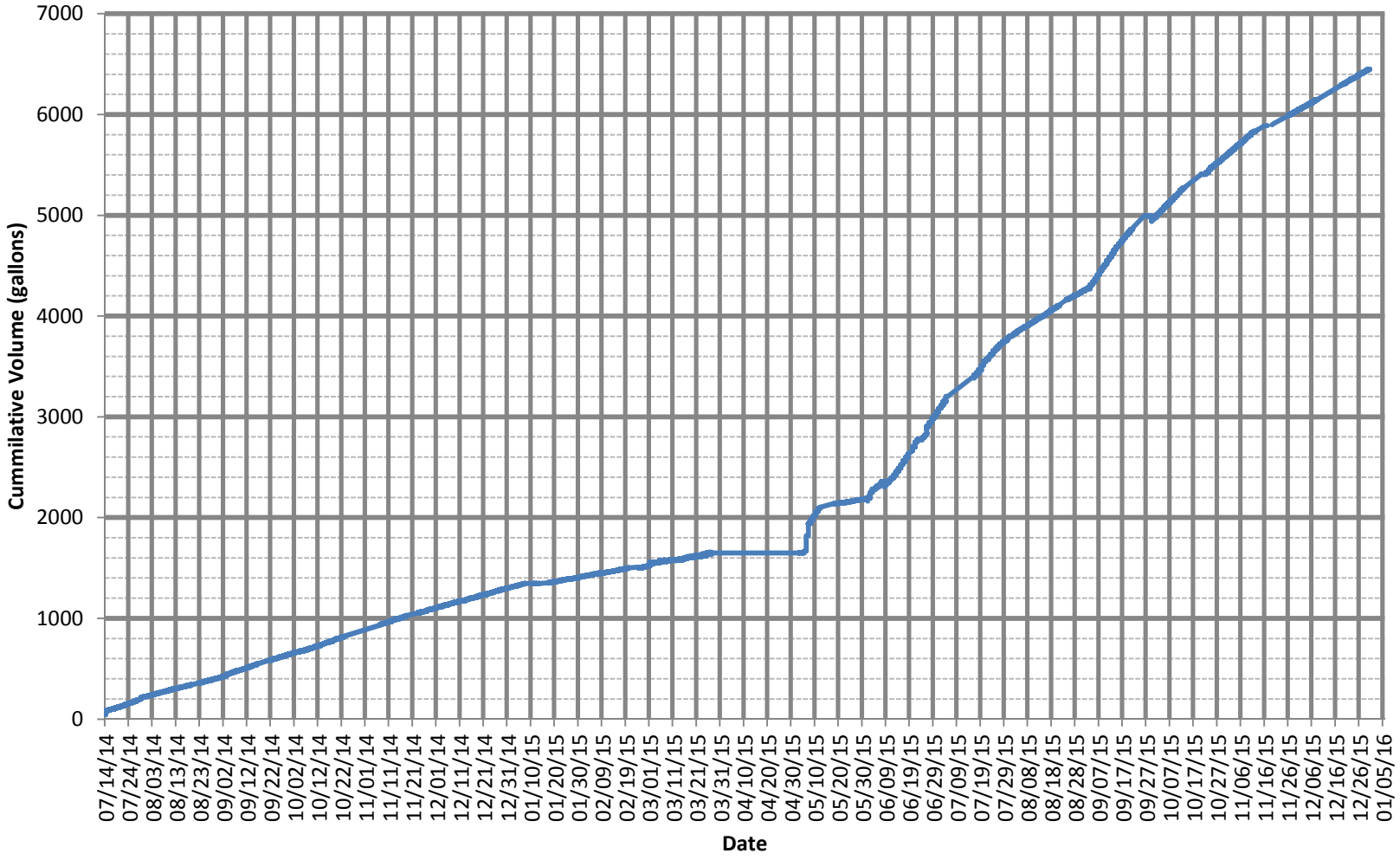
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

DATE: 03/31/2016 | DRWN: JB

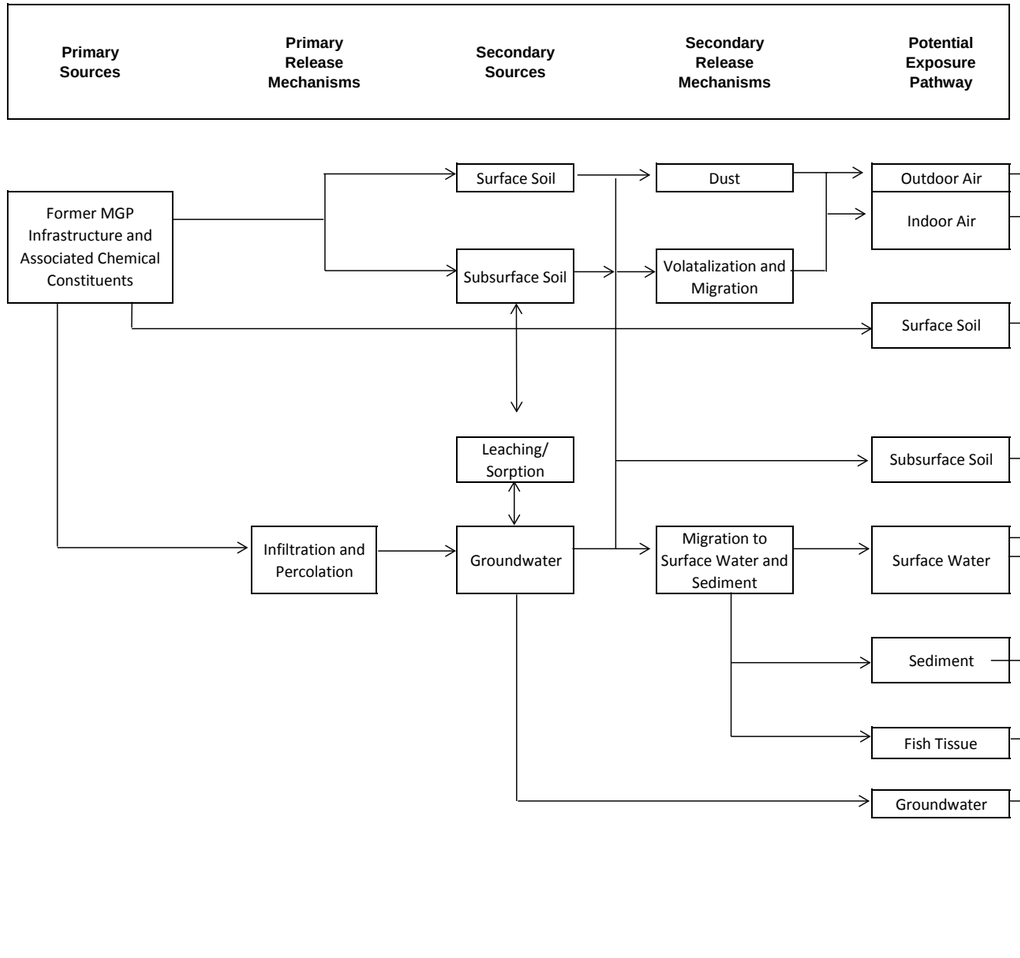
FIGURE 6-2
SHALLLOW SOIL EXCAVATION IRM
(252 AND 254 MASPETH AVENUE)

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\GIS\RI_Report\MXD\Fig_6_2_Shallow Soil IRM.dwg Layout: Layout2 User: bourdeauj Plotted: Mar 31, 2016 - 10:06am

FIGURE 6-3
Cumulative Volume of Mixed Fluids Collected
IRM for NAPL Recovery
Former Equity Works MGP Site



Note: Mixed Fluids are estimated to contain 80% NAPL



Primary Sources	Primary Release Mechanisms	Secondary Sources	Secondary Release Mechanisms	Potential Exposure Pathway	Potential Exposure Route	Potential On-Site Receptors: Indoor Commercial/Maintenance Workers	Potential On-Site Receptors: Outdoor Commercial/Maintenance Worker	Potential On-Site Receptors: Construction Worker	Potential On-Site Receptors: Site Visitor/ Trespassers	Potential Off-Site Receptors: Current and Potential Future Residents	Potential Off-Site Receptors: Current and Potential Future Indoor Commercial Workers	Potential Off-Site Receptors: Current and Potential Future Outdoor Commercial Workers	Potential Off-Site Receptors: Construction Workers
Former MGP Infrastructure and Associated Chemical Constituents		Surface Soil	Dust	Outdoor Air	Inhalation	○	○	●	○	○	○	○	●
				Indoor Air	Inhalation	○	○	○	○	○	○	○	○
		Subsurface Soil	Volatalization and Migration		Incidental Ingestion	○	○	●	○	○	○	○	●
				Surface Soil	Dermal Contact	○	○	●	○	○	○	○	●
					Incidental Ingestion	○	○	●	○	○	○	○	●
					Dermal Contact	○	○	●	○	○	○	○	●
		Leaching/ Sorption		Subsurface Soil									
	Infiltration and Percolation	Groundwater	Migration to Surface Water and Sediment	Surface Water	Inhalation								
					Incidental Ingestion								
				Sediment	Dermal Contact								
				Fish Tissue	Ingestion								
		Groundwater		Groundwater	Inhalation	○	○	●	○	○	○	○	●
					Incidental Ingestion	○	○	●	○	○	○	○	●
					Potable Ingestion								
					Dermal Contact	○	○	●	○	○	○	○	●

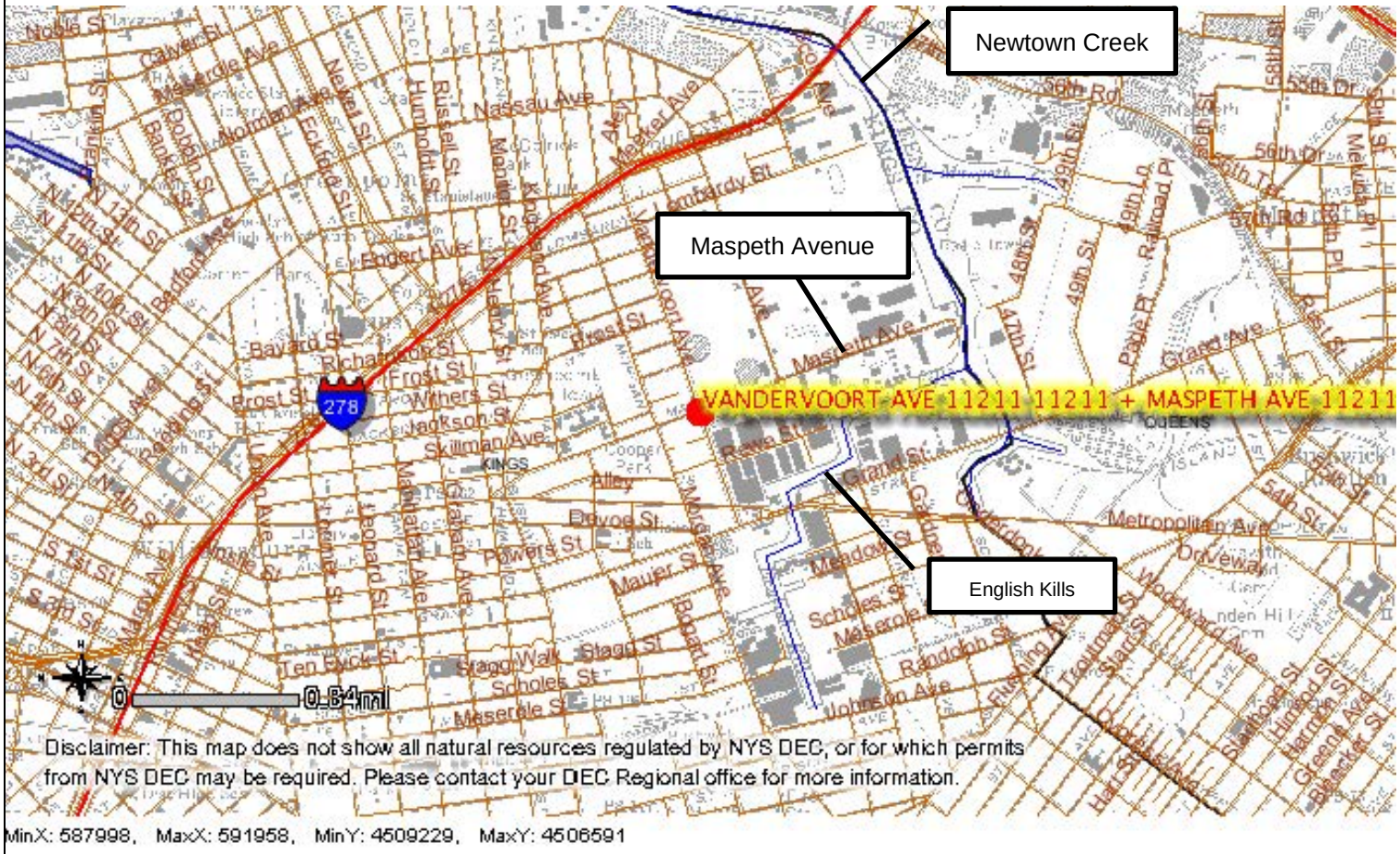
Key

●	Pathway considered to be complete
○	Pathway considered to be incomplete or insignificant
	Exposure pathway not applicable for the associated receptor
(a)	Investigation has been performed by USEPA

QHHEA CONCEPTUAL SITE MODEL
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE

Figure 7-1

DATE	DRAWN BY	CHECKED BY	PROJECT NO
12/31/2015	CF	CH	60137362



Visible Layers

- Classified Streams
- Classified Ponds
- State-Regulated Freshwater Wetlands
- Wetland Checkzone
- State-Regulated Freshwater Wetlands
- Rare Plants and Rare Animals
- Significant Natural Communities Buffered
- Natural Communities Nearby
- Significant Natural Communities
- Interstate Highways
- Adirondack Park Boundary
- Counties

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE

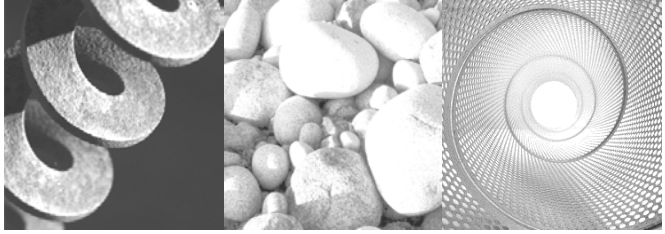
Data Source: http://www.dec.ny.gov/animals/38801.html (12/30/2015)

Environmental Resources in the Vicinity of the Former Equity Works MGP Site

Figure 8-1

Appendix A

DRAFT Potential Responsible Party (PRP) Research Summary of Findings (GEI, 2015)



GEI Consultants

Consulting
Engineers and
Scientists

DRAFT Potential Responsible Party (PRP) Research Summary of Findings

Equity Works MGP, Brooklyn, New York

Submitted to:
National Grid
175 East Old Country Road
Hicksville, NY 11801

Submitted by:
GEI Consultants, Inc., P.C.
455 Winding Brook Drive, Suite 201
Glastonbury, CT 06033
860-368-5300

October 2015

Project 1507970



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4. Low Ranking Identified PRPs

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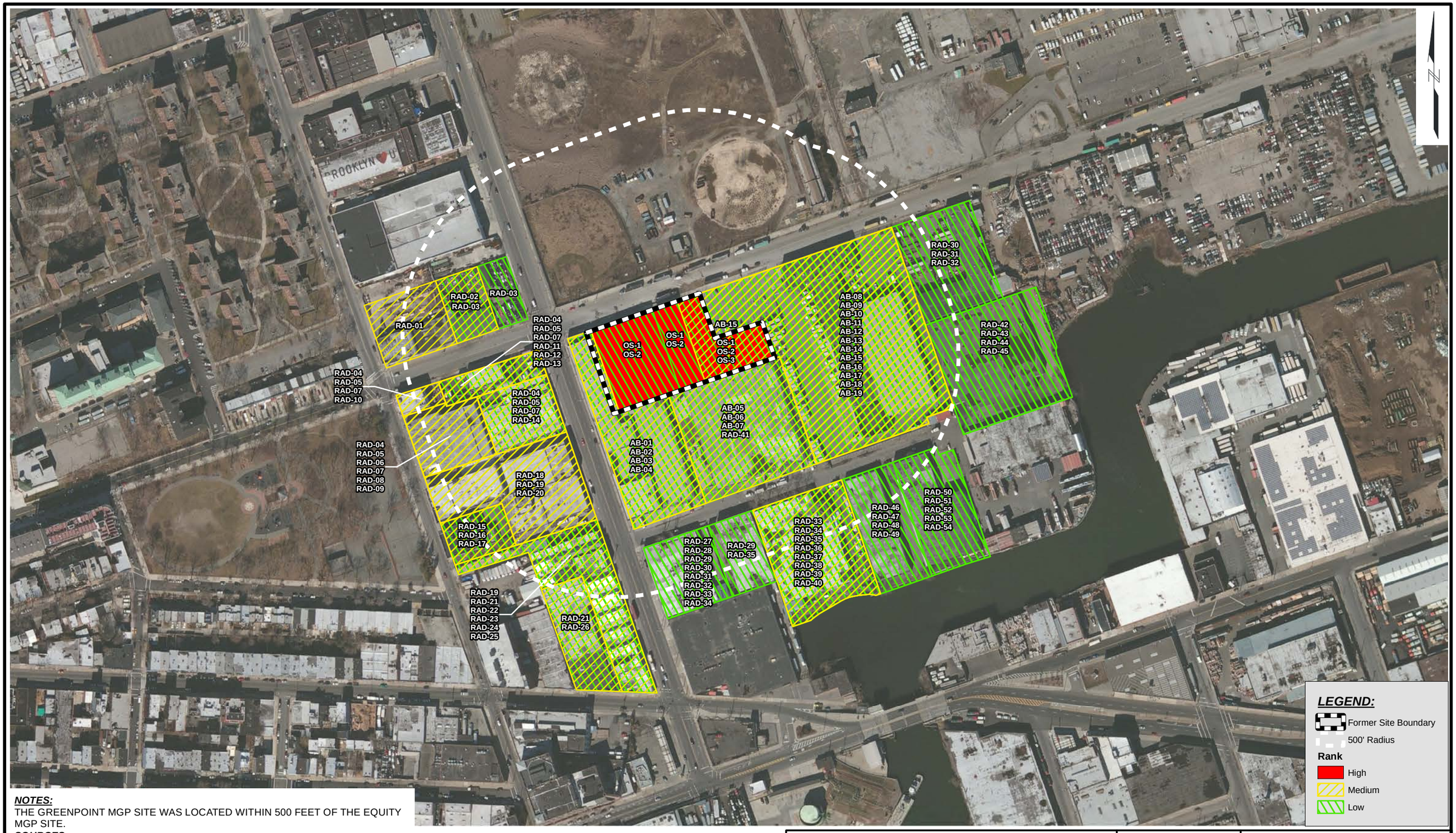
2. Identified Potentially Responsible Parties – Abutting Parcels
3. Identified Potentially Responsible Parties – Parcels within Approximately 500 Feet
4. Source Summary Table

Appendix

A. Electronic Source Data

Figures



NOTES:

THE GREENPOINT MGP SITE WAS LOCATED WITHIN 500 FEET OF THE EQUITY MGP SITE.

SOURCES:

1. 2013 ESRI WORLD IMAGERY
2. NYC DEPARTMENT OF CITY PLANNING, MAPPLUTO, REV. JUNE 2015.
3. POTENTIALLY RESPONSIBLE PARTIES (PRPS) IDENTIFIED USING SANBORN MAPS, AND AVAILABLE DIGITAL AND PHYSICAL NEW YORK PUBLIC LIBRARY ATLASES AND MAPS. SEE APPENDED INFORMATION FOR THE SITE FOR MAPS AND ATLASES REVIEWED.

DRAFT

0 250 500

SCALE: 1" = 250'

Equity Works MGP
PRP Research Summary of Findings
Brooklyn, New York

nationalgrid

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OVERVIEW OF IDENTIFIED PRPS

Project 1507970 | October 2015 | Fig. 1

J:\Projects\National_Grid\NYC PRP Research\GIS\Equity\Equity_Overview.mxd



Company Name	Ranking Rationale	Facility Operations	Known Years of Operation	Potential COCs	PRP Site Code
Cooper Tank Recycling Co.	Large chemical and petroleum storage, high potential for release, listed on the SWF/ LF AST databases	Waste Recycling & Garbage & Waste Transfer Station	(1989-2014)	Petroleum, solvents	OS-2

LEGEND:

Former Site Boundary

Rank

High

NOTES:

THE GREENPOINT MGP SITE WAS LOCATED WITHIN 500 FEET OF THE EQUITY MGP SITE.

SOURCES:

1. 2013 ESRI WORLD IMAGERY
2. NYC DEPARTMENT OF CITY PLANNING, MAPPLUTO, REV. JUNE 2015.
3. POTENTIALLY RESPONSIBLE PARTIES (PRPS) IDENTIFIED USING SANBORN MAPS, AND AVAILABLE DIGITAL AND PHYSICAL NEW YORK PUBLIC LIBRARY ATLASES AND MAPS. SEE APPENDED INFORMATION FOR THE SITE FOR MAPS AND ATLASES REVIEWED.

DRAFT

0 250 500

SCALE: 1" = 250'

Equity Works MGP
PRP Research Summary of Findings
Brooklyn, New York

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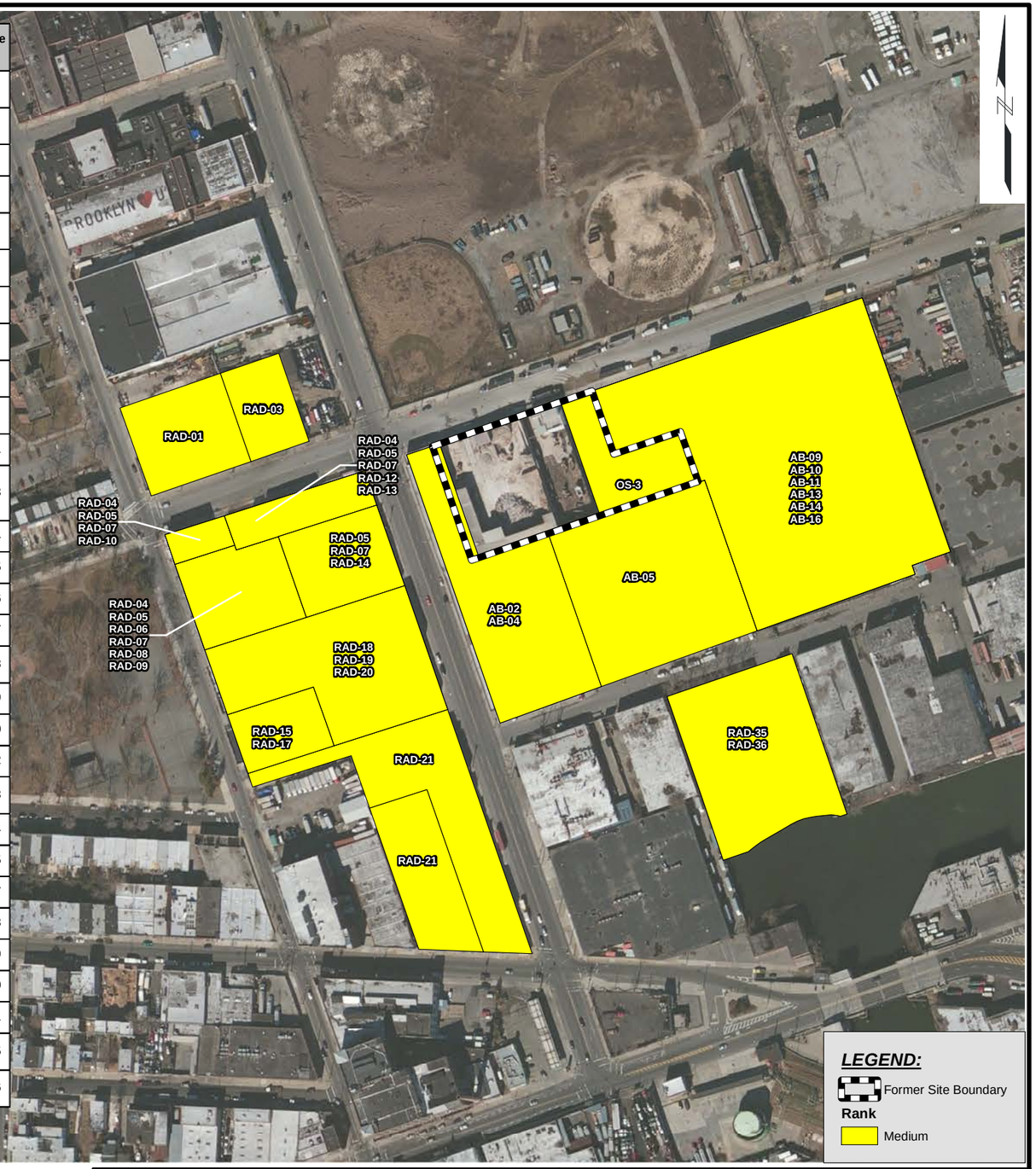
HIGH RANKING IDENTIFIED PRPS

Project 1507970 | October 2015 | Fig. 2

J:\Projects\National_Grid\NYC PRP Research\GIS\Equity\Equity_High.mxd

Company Name	Ranking Rationale	Facility Operations	Known Years of Operation	Potential COCs	PRP Site Code
Fontana Transfer Station	Moderate chemical-oil use, moderate potential for release, listed on the SWF/LF databases	Industrial and Manufacturing (Factory/ Industrial)	(2005)	Petroleum, solvents	OS-3
Newtown Creek Development Corp./ Salwen Paper Co. Inc.	Moderate chemical-oil use, moderate potential for release, long duration	Unknown	(1965-2003)	Petroleum, solvents, dyes, PCBs	AB-02
Rockower-Sigawel Associates	Moderate chemical-oil use, moderate potential for release, listed on the SQG/SPILL databases	Industrial/ Manufacturing	(2005)	Petroleum	AB-04
Newtown Creek Development Corp./ Lack Carpet Co. Inc.	Moderate chemical-oil use, moderate potential for release, long duration	Unknown	(1965-1982)	Petroleum, solvents	AB-05
The Chapman Docks Co./ Marvel Oil Corp.	Moderate chemical-oil use, potential for co-mingled plume	Unknown	(1929)	Petroleum	AB-09
The Chapman Docks Co./ Central Valley Coal Co.	Moderate chemical-oil use, potential for co-mingled plume	Coal Yard	(1929)	Petroleum, coal	AB-10
The Chapman Docks Co./ Knapp Coal Yard	Moderate chemical-oil use, potential for co-mingled plume	Coal Yard	(1929-1933)	Petroleum, coal	AB-11
The Chapman Docks Co./ E.V. Crandall Oil & Putty Mfg Co.	Moderate chemical-oil use, potential for co-mingled plume	Oil & Putty mfg	(1929-1951)	Petroleum, oil, solvents	AB-13
The Chapman Docks Co./ Unknown	Moderate chemical-oil use, potential for co-mingled plume	Fuel Oil Tanks & Truck Filling	(1951)	Petroleum	AB-14
The Chapman Docks Co./ A.G. Feldman	Moderate chemical-oil use, potential for co-mingled plume	Coal Yard	(1951)	Petroleum, coal	AB-16
Dept. of Sewers	Moderate chemical-oil use, moderate potential for release, upgradient	Sewage Pumping Station	(1921-1968)	PPCPs	RAD-01
Dept. of Highways	Moderate chemical-oil use, moderate potential for release, long duration, upgradient	Bureau of Highways Yard/ Grit Chamber/ Pipe Cutting & Storage	(1929-2007)	Petroleum, solvents	RAD-03
The Lawrence Rope Works	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Rope Works, Tar House	(1886-1893)	Petroleum, solvents, dyes, tar	RAD-04
Standard Rope & Twine Co.	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Rope Works	(1899-1916)	Petroleum, solvents, dyes	RAD-05
Banner Silk Dying Co.	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Silk Dyeing	(1929)	Petroleum, solvents, dyes	RAD-06
The Lignum Chemical Works	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Chemical Works	(1933)	Petroleum, solvents, unknown chemical use	RAD-07
Unknown	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Sheet Metal Works, Painting & Manufacturing	(1965-1968)	Petroleum, solvents, dyes, metals	RAD-08
Unknown	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Manufacturing	(1977-1994)	Petroleum, oil, unknown chemical use	RAD-09
Unknown	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Manufacturing	(1965-1994)	Petroleum, oil, unknown chemical use	RAD-10
Brooklyn Truck Wash	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Truck Repair & Wash	(2001-2015)	Petroleum	RAD-12
Commercial Smelting & Refining	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Manufacturing	(2005)	Petroleum, oil, unknown chemical use	RAD-13
Unknown	Moderate chemical-oil use, moderate potential for release, long duration, across Vandervoort Ave., upgradient	Manufacturing	(1965-2007)	Petroleum, oil, unknown chemical use	RAD-14
Unknown	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Fur Dyeing	(1933)	Petroleum, solvents, dyes	RAD-15
Atlantic Foam Products Corp.	Moderate chemical-oil use, moderate potential for release, long duration, crossgradient, across Vandervoort Ave.	Foam Products mfg	(1965-2007)	Petroleum, solvents, dyes	RAD-17
Oxford Filing Supplies	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Filing Supplies	(1933)	Adhesives	RAD-18
Royal Yarn Dyeing Corp.	Moderate chemical-oil use, moderate potential for release, long duration, crossgradient, across Vandervoort Ave.	Yarn Dying, Manufacturing	(1951-1994)	Petroleum, solvents, dyes, PCBs	RAD-19
Vander Dyeing & Finishing Corp.	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Manufacturing	(2005)	Petroleum, oil, , PCBs, unknown chemical use	RAD-20
Bushwick Chemical Works	Moderate chemical-oil use, moderate potential for release, crossgradient	Chemical Works	(1886-1899)	Petroleum, solvents, unknown chemical use	RAD-21
The Chapman Docks Co./ Buffalo Coal Co.	Moderate chemical-oil use, downgradient of site, potential for co-mingled plume to Newtown Creek	Coal Yard	(1933)	Petroleum, coal	RAD-35
The Chapman Docks Co./ Unknown	Moderate chemical-oil use, downgradient of site, potential for co-mingled plume to Newtown Creek	Coal Yard	(1951)	Petroleum, coal	RAD-36



NOTES:
THE GREENPOINT MGP SITE WAS LOCATED WITHIN 500 FEET OF THE EQUITY MGP SITE.

SOURCES:
1. 2013 ESRI WORLD IMAGERY
2. NYC DEPARTMENT OF CITY PLANNING, MAPPLUTO, REV. JUNE 2015.
3. POTENTIALLY RESPONSIBLE PARTIES (PRPS) IDENTIFIED USING SANBORN MAPS, AND AVAILABLE DIGITAL AND PHYSICAL NEW YORK PUBLIC LIBRARY ATLASES AND MAPS. SEE APPENDED INFORMATION FOR THE SITE FOR MAPS AND ATLASES REVIEWED.

DRAFT

0 250 500

SCALE: 1" = 250'

Equity Works MGP
PRP Research Summary of Findings
Brooklyn, New York

nationalgrid

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MEDIUM RANKING IDENTIFIED PRPS

Project 1507970 | October 2015 | Fig. 3

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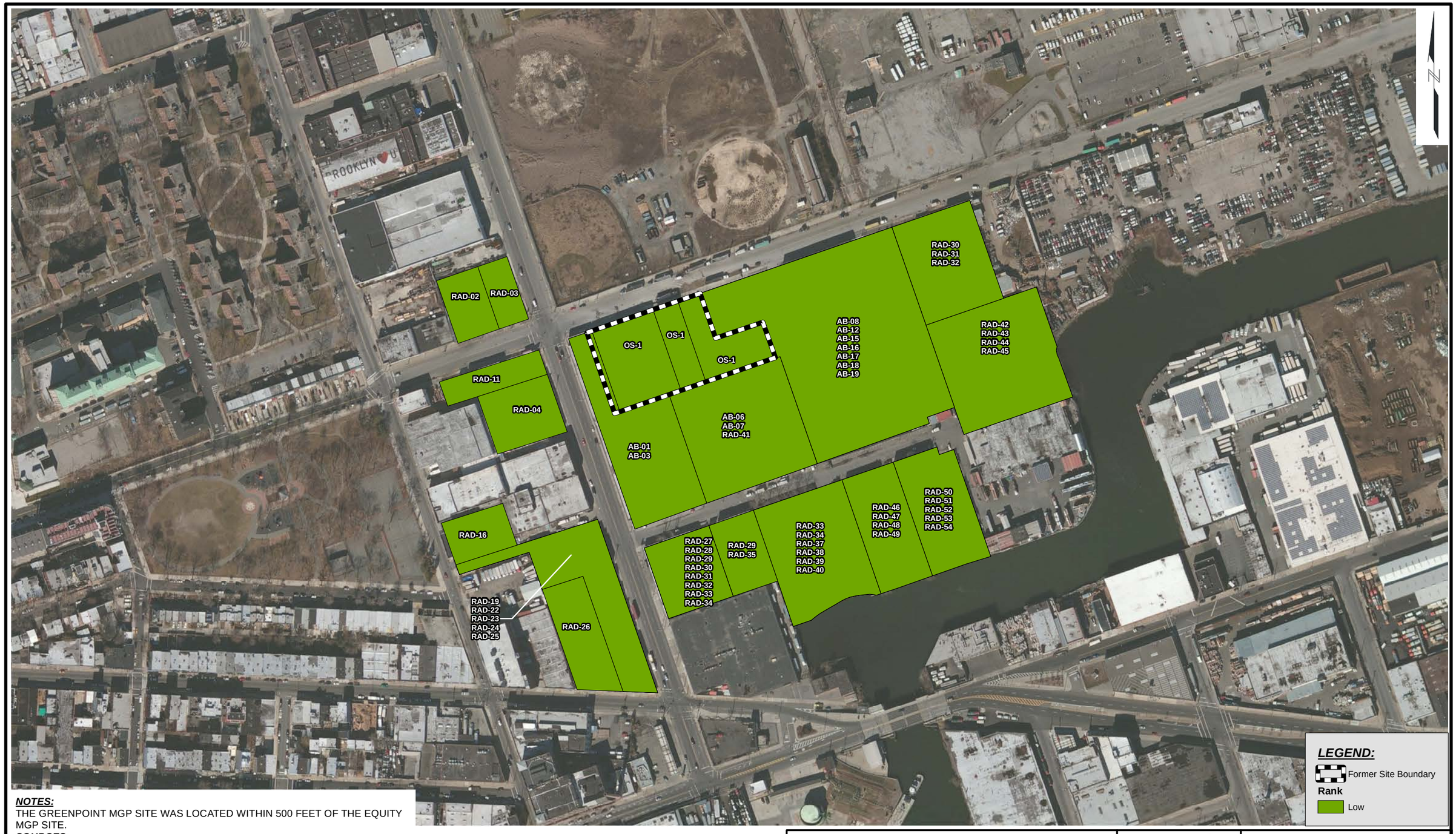

NOTES:
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SOURCES:
1. 2013 ESRI WORLD IMAGERY
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3. POTENTIALLY RESPONSIBLE PARTIES (PRPS) IDENTIFIED USING SANBORN MAPS, AND AVAILABLE DIGITAL AND PHYSICAL NEW YORK PUBLIC LIBRARY ATLASES AND MAPS. SEE APPENDED INFORMATION FOR THE SITE FOR MAPS AND ATLASES REVIEWED.

DRAFT

0 250 500

SCALE: 1" = 250'

Equity Works MGP
PRP Research Summary of Findings
Brooklyn, New York

nationalgrid

GEI Consultants

LOW RANKING IDENTIFIED PRPS

Project 1507970 | October 2015 | Fig. 4

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Tables

Table 1. Identified Potentially Responsible Parties – On-Site
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
OS-1	2927	44	Unknown	Used Pipe & Valve Storage	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7an	Low		
OS-1	2927	54	Unknown	Used Pipe & Valve Storage	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7an	Low		
OS-1	2927	57	Unknown	Used Pipe & Valve Storage	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7an	Low		
OS-2	2927	44	Cooper Tank Recycling Co.	Waste Recycling & Garbage & Waste Transfer Station, SWF/ LF, AST	(1989-2014)	7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7ao, 7aq	High	Large chemical and petroleum storage, high potential for release	Petroleum, solvents
OS-2	2927	54	Cooper Tank Recycling Co.	Waste Recycling & Garbage & Waste Transfer Station, SWF/ LF, AST	(1989-2014)	7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7ao, 7aq	High	Large chemical and petroleum storage, high potential for release	Petroleum, solvents
OS-2	2927	57	Cooper Tank Recycling Co.	Waste Recycling & Garbage & Waste Transfer Station, SWF/ LF, AST	(1989-2014)	7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7ao, 7aq	High	Large chemical and petroleum storage, high potential for release	Petroleum, solvents
OS-3	2927	57	Fontana Transfer Station	Industrial and Manufacturing (SWF /LF)	2005	7ap	Medium	Moderate chemical-oil use, moderate potential for release	Petroleum, solvents

Table 2. Identified Potentially Responsible Parties – Abutting Parcels
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
AB-01	2927	42	Joseph A Solan	Saw and Planing Mill	(1907)	7e	Low		
AB-02	2927	42	Newtown Creek Development Corp./ Salwen Paper Co. Inc.	Unknown	(1965-2003)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration	Petroleum, solvents, dyes, PCBs
AB-03	2927	42	Newtown Creek Development Corp./ Unknown	Manufacturing	(2004-2007)	7ae, 7af, 7ag, 7ah	Low		
AB-04	2927	42	Rockower-Sigawel Associates	Industrial/ Manufacturing SQG/ SPILL	(2005)	7ap	Medium	Moderate chemical-oil use, moderate potential for release	Petroleum
AB-05	2927	125	Newtown Creek Development Corp./ Lack Carpet Co. Inc.	Unknown	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration	Petroleum, solvents
AB-06	2927	125	Newtown Creek Development Corp./ Boro Recycling	Recycling	(1986-1990)	7s, 7t, 7u, 7v, 7w	Low		
AB-07	2927	125	Newtown Creek Development Corp./ Global Moving & Storage	Industrial/ Manufacturing (Shipping Warehouse) (UST)	(1991-2007)	7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7ap	Low		
AB-08	2927	168	Stanley Dogget	Foundry Supplies	(1907)	7e, 7i	Low		
AB-09	2927	168	The Chapman Docks Co./ Marvel Oil Corp.	Unknown	(1929)	7al	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum
AB-10	2927	168	The Chapman Docks Co./ Central Valley Coal Co.	Coal Yard	(1929)	7al	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum, coal
AB-11	2927	168	The Chapman Docks Co./ Knapp Coal Yard	Coal Yard	(1929-1933)	7j, 7al	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum, coal
AB-12	2927	168	The Chapman Docks Co./ The Hobin Hunter Feitner Lumber Co.	Lumber Yard	(1929-1951)	7j, 7k, 7al	Low		
AB-13	2927	168	The Chapman Docks Co./ E.V. Crandall Oil & Putty Mfg Co.	Oil & Putty mfg	(1929-1951)	7j, 7k, 7al	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum, oil, solvents
AB-14	2927	168	The Chapman Docks Co./ Unknown	Fuel Oil Tanks & Truck Filling	(1951)	7k	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum
AB-15	2927	168	The Chapman Docks Co./ Unknown	Lumber Yard	(1951)	7k	Low		
AB-16	2927	168	The Chapman Docks Co./ A.G. Feldman	Coal Yard	(1951)	7k	Medium	Moderate chemical-oil use, potential for co-mingled plume	Petroleum, coal
AB-17	2927	168	Newtown Creek Develop-ment Corp./ Branch Motor Express Inc.	Truck Service, Motor Freight Station	(1965-1990)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7an	Low		
AB-18	2927	168	Newtown Creek Develop-ment Corp./ Roadway Package System Co.	Truck Service, Motor Freight Station	(1991-1994)	7x, 7y, 7z, 7aa,	Low		
AB-19	2927	168	Newtown Creek Development Corp./ FedEx	Truck Service, Motor Freight Station	(2001-2015)	7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7aq	Low		

Table 3. Identified Potentially Responsible Parties – Parcels Within Approximately 500 Feet
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
RAD-01	2896	1	Dept. of Sewers	Sewage Pumping Station	(1921-1968)	7j, 7k, 7l, 7m, 7ak, 7al	Medium	Moderate chemical-oil use, moderate potential for release, upgradient	PPCPs
RAD-02	2896	16	Greenpoint Iron & Pipe Co.	Unknown	(1929)	7al	Low		
RAD-03	2896	16	Dept. of Highways	Bureau of Highways Yard/Grit Chamber/Pipe Cutting & Storage	(1929-2007)	7j, 7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7al, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration, upgradient	Petroleum, solvents
RAD-03	2896	22	Dept. of Highways	Pipe Cutting & Storage	(1929-2007)	7j, 7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7al, 7an	Low		
RAD-04	2909	1	The Lawrence Rope Works	Rope Works, Tar House	(1886-1888)	7a, 7b, 7h	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes, tar
RAD-04	2909	8	The Lawrence Rope Works	Rope Works, Tar House	(1886-1888)	7a, 7b, 7h	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes, tar
RAD-04	2909	15	The Lawrence Rope Works	Rope Works	(1886-1893)	7a, 7ai	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes
RAD-04	2909	30	The Lawrence Cordage Works	Rope Works	(1893)	7ai	Low		
RAD-05	2909	1	Standard Rope & Twine Co.	Rope Works	(1899-1916)	7c, 7d, 7e, 7f, 7g, 7aj	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes
RAD-05	2909	8	Standard Rope & Twine Co.	Rope Works	(1907)	7e, 7i	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes
RAD-05	2909	15	Standard Rope & Twine Co.	Rope Works	(1907)	7e, 7i	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave.	Petroleum, solvents, dyes
RAD-05	2909	30	Standard Rope & Twine Co.	Rope Works	(1899-1916)	7c, 7d, 7e, 7f, 7g, 7aj	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes
RAD-06	2909	1	Banner Silk Dying Co.	Silk Dyeing	(1929)	7al	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes
RAD-07	2909	1	The Lignum Chemical Works	Chemical Works	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, unknown chemical use
RAD-07	2909	8	The Lignum Chemical Works	Chemical Works	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, unknown chemical use
RAD-07	2909	15	The Lignum Chemical Works	Chemical Works	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, unknown chemical use

Table 3. Identified Potentially Responsible Parties – Parcels Within Approximately 500 Feet
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
RAD-07	2909	30	The Lignum Chemical Works	Chemical Works	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, unknown chemical use
RAD-08	2909	1	Unknown	Sheet Metal Works, Painting & Manufacturing	(1965-1968)	7l, 7m	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, solvents, dyes, metals
RAD-09	2909	1	Unknown	Manufacturing	(1977-1994)	7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, oil, unknown chemical use
RAD-10	2909	8	Unknown	Manufacturing	(1965-1994)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7an	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, oil, unknown chemical use
RAD-11	2909	15	Unknown	Metal Scrapping	(1951-1994)	7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7an	Low		
RAD-12	2909	15	Brooklyn Truck Wash	Truck Repair & Wash	(2001-2015)	7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7aq, 7ar	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum
RAD-13	2909	15	Commercial Smelting & Refining	Manufacturing	(2005)	7ap	Medium	Moderate chemical-oil use, moderate potential for release, across Vandervoort Ave., upgradient	Petroleum, oil, unknown chemical use
RAD-14	2909	30	Unknown	Manufacturing	(1965-2007)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration, across Vandervoort Ave., upgradient	Petroleum, oil, unknown chemical use
RAD-15	2909	101	Unknown	Fur Dyeing	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Petroleum, solvents, dyes
RAD-16	2909	101	Globe Products Co.	Jellies mfg	(1951)	7k	Low		
RAD-17	2909	101	Atlantic Foam Products Corp.	Foam Products mfg	(1965-2007)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration, crossgradient, across Vandervoort Ave.	Petroleum, solvents, dyes
RAD-18	2909	106	Oxford Filing Supplies	Filing Supplies	(1933)	7j	Medium	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Adhesives
RAD-19	2909	106	Royal Yarn Dyeing Corp.	Yarn Dying, Manufacturing	(1951-1994)	7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7an	Medium	Moderate chemical-oil use, moderate potential for release, long duration, crossgradient, across Vandervoort Ave.	Petroleum, solvents, dyes, PCBs
RAD-19	2914	16	Royal Yarn Dyeing Corp.	Yarn Dying, Manufacturing	(1968-1993)	7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7an	Low		
RAD-20	2909	106	Vander Dyeing & Finishing Corp.	Manufacturing	(2005)	7ap	Medium	Moderate chemical-oil use, moderate potential for release, crossgradient, across Vandervoort Ave.	Petroleum, oil, unknown chemical use, PCBs
RAD-21	2914	16	Bushwick Chemical Works	Chemical Works	(1886-1893)	7a, 7b, 7ai	Medium	Moderate chemical-oil use, moderate potential for release, crossgradient	Petroleum, solvents, unknown chemical use

Table 3. Identified Potentially Responsible Parties – Parcels Within Approximately 500 Feet
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
RAD-21	2914	35	Bushwick Chemical Works	Chemical Works	(1886-1899)	7a, 7b, 7c, 7ai	Medium	Moderate chemical-oil use, moderate potential for release, crossgradient	Petroleum, solvents, unknown chemical use
RAD-22	2914	16	Hercules Food Service Equipment Inc.	Metal Product mfg	(1951)	7k	Low		
RAD-23	2914	16	Payton Products Co.	Plastic Toy mfg	(1965)	7l	Low		
RAD-24	2914	16	Unknown	Manufacturing	(1994-2014)	7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7aq	Low		
RAD-25	2914	16	Perfect Color Dyeworks	Manufacturing (UST)	(1997-2005)	7ap	Low		
RAD-26	2914	35	Bilt-Rite Baby Carriage Co. Inc.	Carriage mfg	(1933-1993)	7j, 7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z	Low		
RAD-27	2927	10	Unknown	Linseed Oil Factory	(1886-1893)	7a, 7ai	Low		
RAD-28	2927	10	Bushwick Varnish Works	Varnish Works	(1888)	7b	Low		
RAD-29	2927	10	The Chapman Docks Co./ Rader Fire Proofing Co.	Unknown	(1904-1929)	7d, 7j, 7al	Low		
RAD-29	2927	15	The Chapman Docks Co./ Rader Fire Proofing Co.	Unknown, Gas & Oil Tanks	(1907-1933)	7e, 7j, 7al	Low		
RAD-30	2927	10	The Chapman Docks Co./J.A. Crombie & Co.	Oil & Drug mfg, Distillery	(1907)	7e, 7i	Low		
RAD-30	2927	90	Newtown Creek Development Corp./ Sea Land Service Inc.	Truck Service, Motor Freight Station	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7an	Low		
RAD-31	2927	10	The Chapman Docks Co./ Unknown	Color Works	(1933)	7j	Low		
RAD-31	2927	90	Newtown Creek Development Corp./ J.B. Williams Express Inc.	Truck Service, Motor Freight Station	(1986-1987)	7s, 7t	Low		
RAD-32	2927	10	The Chapman Docks Co./ Unknown	Gas Tank	(1933-1951)	7j, 7k	Low		
RAD-32	2927	90	Newtown Creek Development Corp./ JC-Duggan Inc.	Truck Service	(1988-2014)	7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7aq	Low		
RAD-33	2927	10	The Chapman Docks Co./ George Lueders Oil & Drugs Mfg	Oil & Drug mfg, Distillery	(1933-1951)	7j, 7k	Low		
RAD-33	2927	100	J. C. Keemeth & Co. Wood Yard	Kindling Wood Factory	(1886-1893)	7a, 7b, 7ai	Low		
RAD-34	2927	10	Blinn Drug Co.	Manufacturing (UST)	(1992-2005)	7ap	Low		
RAD-34	2927	100	L.I. Kindling Wood Factory	Wood Works	(1888-1899)	7b, 7c	Low		
RAD-35	2927	15	Fred. Fries Bushwick Coal Yard	Coal Yard	(1888)	7b	Low		
RAD-35	2927	100	The Chapman Docks Co./ Buffalo Coal Co.	Coal Yard	(1933)	7j	Medium	Moderate chemical-oil use, downgradient of site, potential for co-mingled plume to Newtown Creek	Petroleum, coal
RAD-36	2927	100	The Chapman Docks Co./ Unknown	Coal Yard	(1951)	7k	Medium	Moderate chemical-oil use, downgradient of site, potential for co-mingled plume to Newtown Creek	Petroleum, coal

Table 3. Identified Potentially Responsible Parties – Parcels Within Approximately 500 Feet
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

PRP Site Code	Block	Lot	Company Name	Facility Operations	Known Years of Operation	Reference Source ID	PRP Ranking	Rationale	Potential Contaminants of Concern
RAD-37	2927	100	Newtown Creek Development Corp./ Rex Belt Co.	Leather Goods mfg	(1965)	7l	Low		
RAD-38	2927	100	Newtown Creek Development Corp./ Federbush Co. Inc.	Loose Leaf Binder mfg	(1968)	7m	Low		
RAD-39	2927	100	Newtown Creek Development Corp./Bindercraft Enterprises Inc.	Loose Leaf Binder mfg	(1972)	7an	Low		
RAD-40	2927	100	Newtown Creek Development Corp./ Unknown	Manufacturing	(1977-2007)	7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah	Low		
RAD-41	2927	125	Joseph A. Sloan	Saw & Planing Mill	(1886-1907)	7e, 7i	Low		
RAD-42	2927	150	The Chapman Docks Co./ Knapp Coal Yard	Coal Yard	(1933)	7j	Low		
RAD-43	2927	150	The Chapman Docks Co./ A.G. Feldman	Coal Yard	(1951)	7k	Low		
RAD-44	2927	150	Newtown Creek Development Corp./ Purofied Down Products Corp.	Unknown	(1965-1982)	7l, 7m, 7n, 7o, 7p, 7q, 7r	Low		
RAD-45	2927	150	Newtown Creek Development Corp./ Manhattan Door Corp.	Unknown	(1986-2007)	7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah	Low		
RAD-46	2927	175	W.M. Knappmann & Co	Whiting Works	(1904-1921)	7d, 7e, 7f, 7g, 7i, 7aj, 7ak	Low		
RAD-47	2927	175	J.P. Duffy Co	Tile, Sewer, & Drain Pipes	(1907)	7e, 7i	Low		
RAD-48	2927	175	The Chapman Docks Co./ Rossoff Coal Corp.	Coal Yard	(1933)	7j	Low		
RAD-49	2927	175	Newtown Creek Development Corp./ Amra Container Corp.	Cardboard Box mfg	(1965-2007)	7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah, 7an	Low		
RAD-50	2927	325	Unknown	Plaster Works	(1886-1893)	7a, 7ai	Low		
RAD-51	2927	325	The Chapman Docks Co./ Whittaker Clark & Daniels Kalsomines	Whiting Works	(1929-1933)	7j, 7al	Low		
RAD-52	2927	325	The Chapman Docks Co./ M. Greenspan Co.	Lumber Yard, Planing Mill	(1933)	7j	Low		
RAD-53	2927	325	Newtown Creek Development Corp./ American Steel Products Corp.	Metal Works	(1965)	7l	Low		
RAD-54	2927	325	Newtown Creek Development Corp./ Unknown	Manufacturing	(1977-1993)	7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z	Low		

Table 4. Source Summary Table
Equity Works MGP, Brooklyn, NY
PRP Research Summary of Findings
National Grid

Source ID	Description/Title	Source
7a	Atlas of Brooklyn - Robinson - 1886 [Plate 16]	NYPL Digital Collection
7b	Atlas 89 Vol. 8 - Sanborn - 1888 [Plates 242, 244]	NYPL Digital Collection
7c	Atlas of the Brooklyn Borough of the City of New York, Ullitz H. 1898-99 [Plate 36]	NYPL Digital Collection
7d	Atlas of the Borough of Brooklyn, Vol. 3 - Hyde, 1904 [Plate 19]	NYPL Digital Collection
7e	Atlas 90 Vol. 9, Sanborn - 1907 [Plates 77, 78]	NYPL Digital Collection
7f	Atlas of the Borough of Brooklyn, Vol. 1 - Bromley. 1907-1908 [Plate 16]	NYPL Digital Collection
7g	Atlas of the Borough of Brooklyn Vol.1 - Hyde. 1916 [Plate 36]	NYPL Digital Collection
7h, 7i, 7j, 7k, 7l, 7m, 7n, 7o, 7p, 7q, 7r, 7s, 7t, 7u, 7v, 7w, 7x, 7y, 7z, 7aa, 7ab, 7ac, 7ad, 7ae, 7af, 7ag, 7ah	Sanborn Maps 1888, 1907, 1933, 1951, 1965, 1968, 1977, 1979, 1980, 1981, 1982, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 2001, 2002, 2003, 2004, 2005, 2006, 2007	EDR - Certified Sanborn Map Report
7ai	Atlas of the Borough of Brooklyn - Bromley, 1893	NYPL Physical Collection
7aj	Atlas of the Borough of Brooklyn Vol. 3 - Hyde, 1904	NYPL Physical Collection
7ak	Desk Atlas of the Borough of Brooklyn Vol. 2 - Hyde, 1921	NYPL Physical Collection
7al	Desk Atlas of the Borough of Brooklyn Vol. 2 - Hyde, 1929	NYPL Physical Collection
7am	New York City Sectional Map, 1947	NYPL Physical Collection
7an	Sanborn Map 1933, revised 1972	NYPL Physical Collection
7ao *	Historic site information provided by others, 2015	AECOM, email dated June 24, 2015
7ap *	EDR Report - 2005	EDR - Radius Map with GeoCheck
7aq *	Google Maps Street View	Google
7ar *	Oasis Map	www.oasisnyc.net/map.aspx

* Electronic information from these sources are not included in Appendix A.

Greenpoint/Equity
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1991	1983	1977
2006	1996	1990	1982	1968
2005	1995	1989	1981	1965
2004	1994	1988	1980	1951
2003	1993	1987	1979	1942
2002	1992	1986	1978	1933

1916
1907
1905
1888
1887

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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Volume 9, Sheet 69



Volume 4, Sheet 59



Volume 4, Sheet 60

2006 Source Sheets



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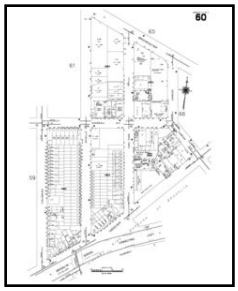

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Volume 9, Sheet 64



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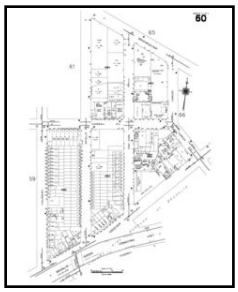
2005 Source Sheets



Volume 4, Sheet 59



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2004 Source Sheets



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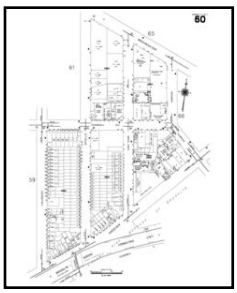
Volume 4, Sheet 59



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2003 Source Sheets



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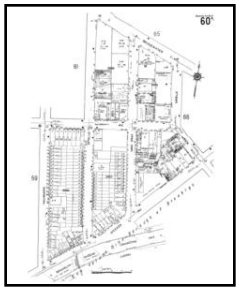

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2002 Source Sheets



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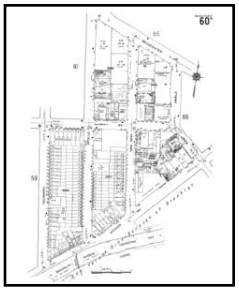
Volume 4, Sheet 59



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2001 Source Sheets



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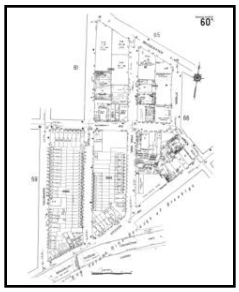

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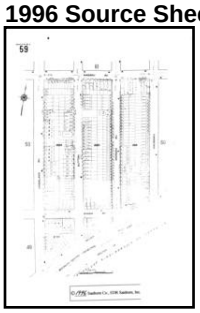
1996 Source Sheets



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1995 Source Sheets



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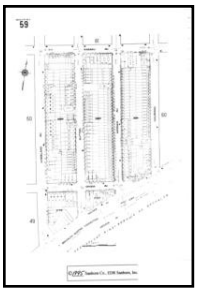

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1994 Source Sheets



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1993 Source Sheets



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1992 Source Sheets



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1991 Source Sheets



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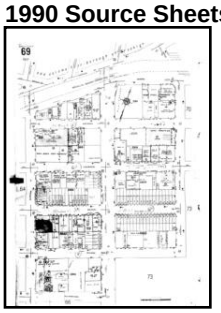
1990 Source Sheets



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1989 Source Sheets



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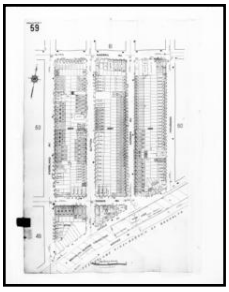

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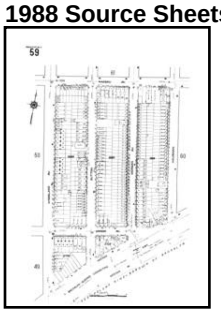
1988 Source Sheets



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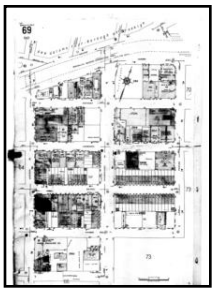

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1987 Source Sheets



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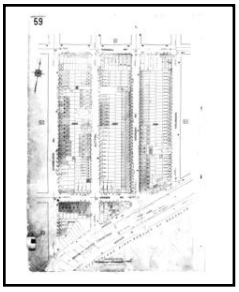

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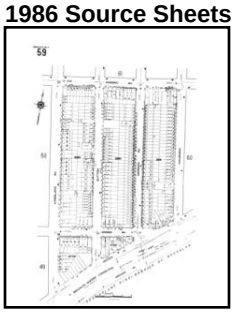
1986 Source Sheets



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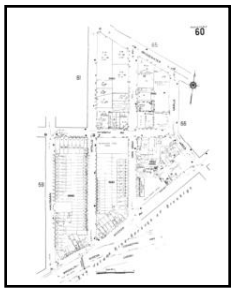

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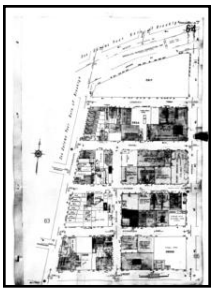

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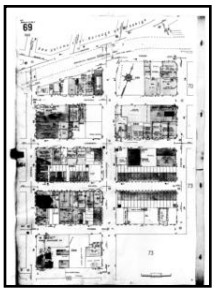

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1983 Source Sheets



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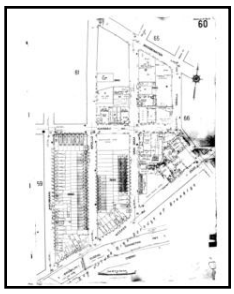

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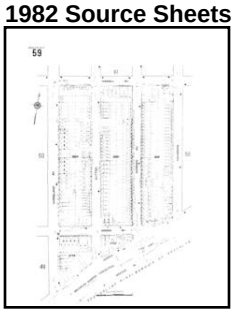
1982 Source Sheets



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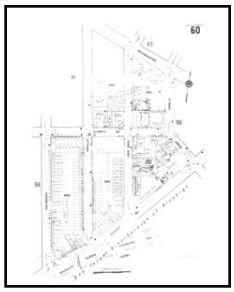

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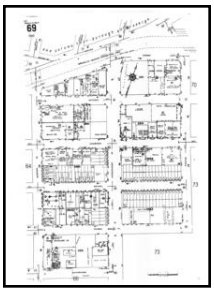

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1981 Source Sheets



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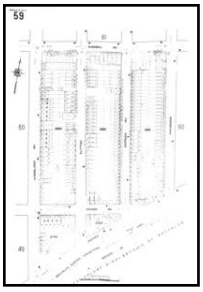

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1980 Source Sheets



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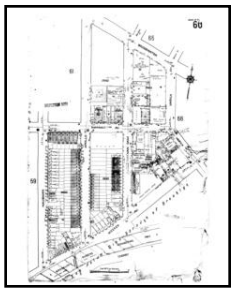

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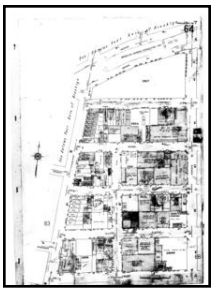

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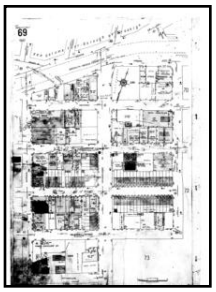

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1979 Source Sheets



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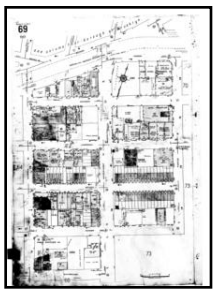

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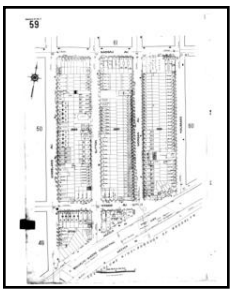

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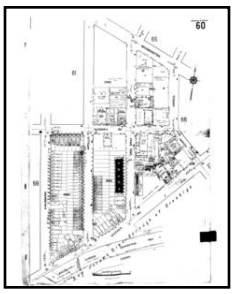

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1978 Source Sheets



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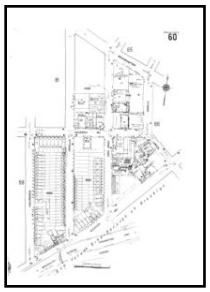

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1977 Source Sheets



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1968 Source Sheets



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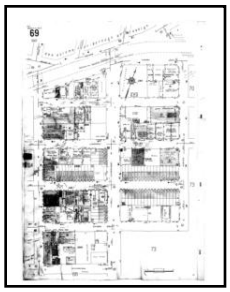

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1965 Source Sheets



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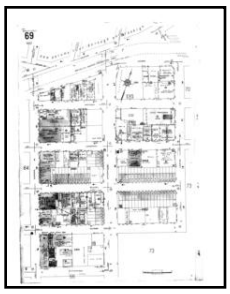

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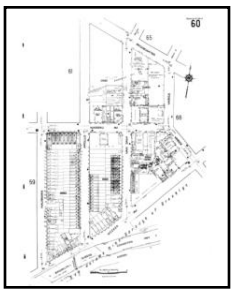

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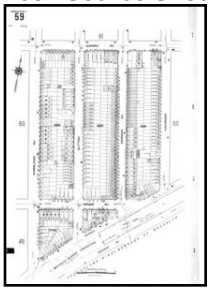
1951 Source Sheets



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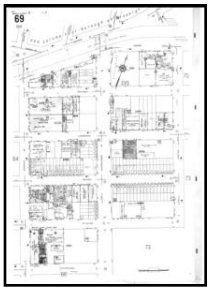

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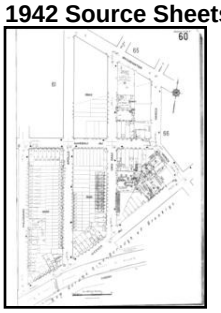
1942 Source Sheets



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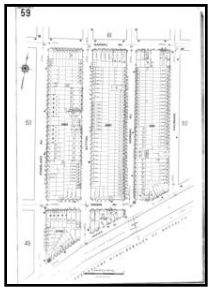

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1933 Source Sheets



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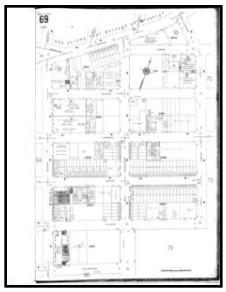

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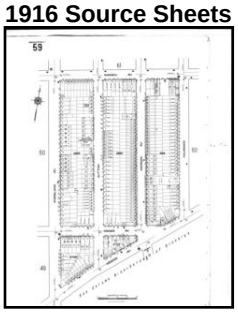
1916 Source Sheets



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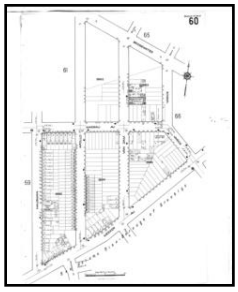

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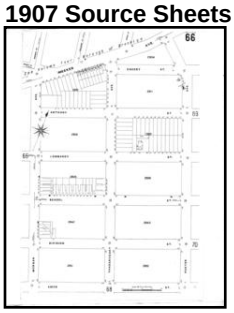

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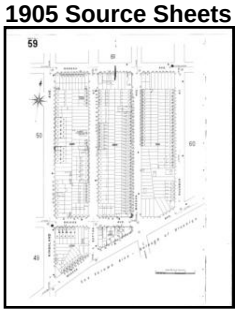

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1888 Source Sheets



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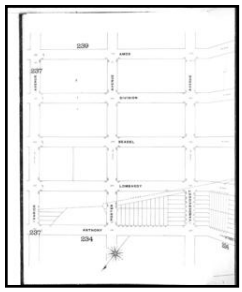

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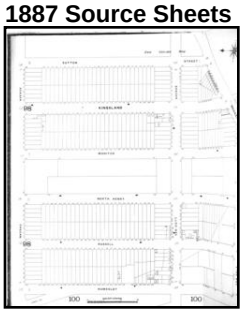
1887 Source Sheets



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2007 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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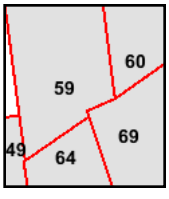

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0 Feet 165 330 660

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2006 Certified Sanborn Map

Site Name: Greenpoint
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EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
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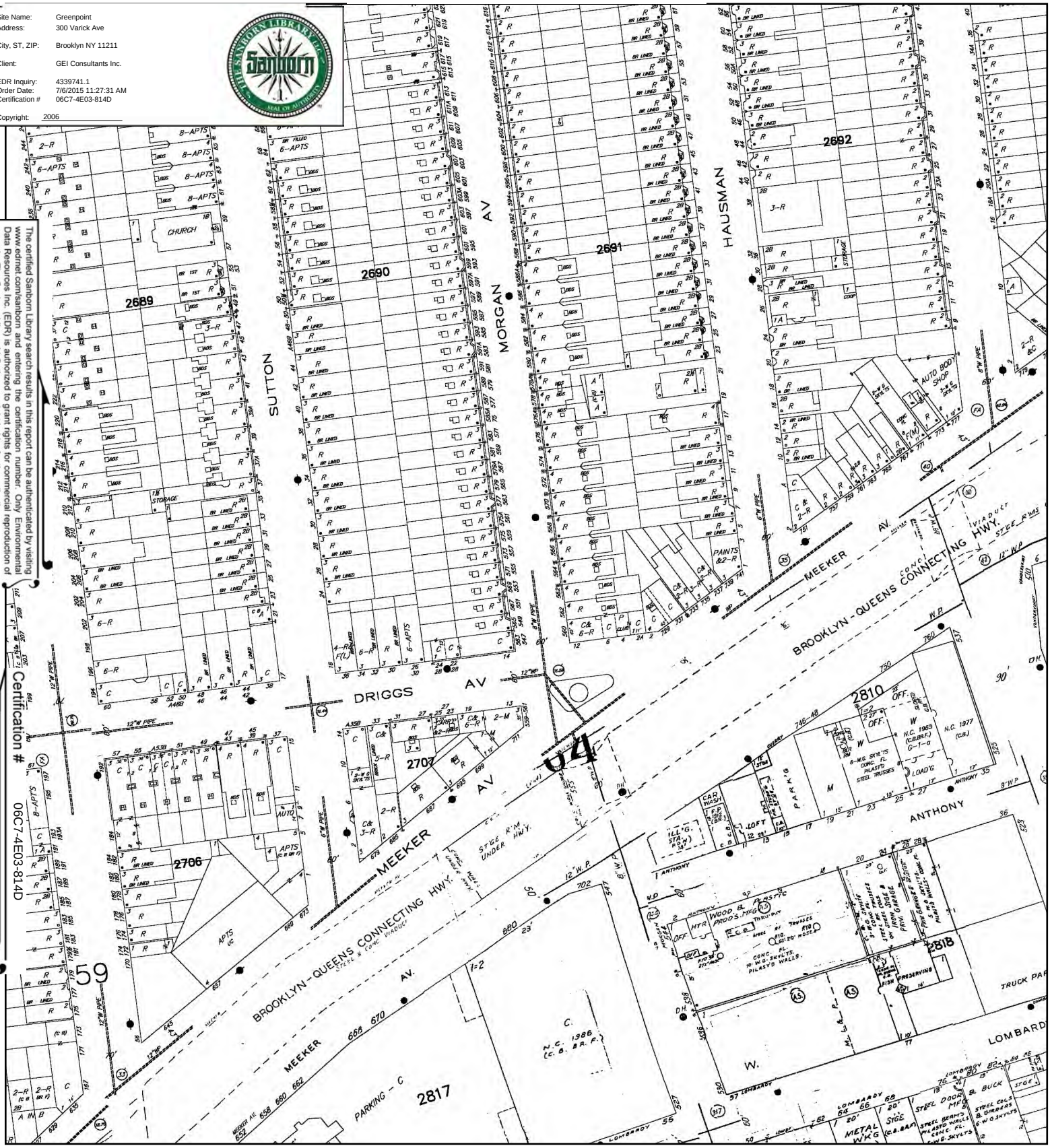

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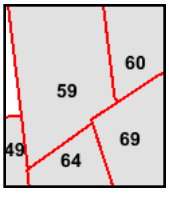

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N

2005 Certified Sanborn Map

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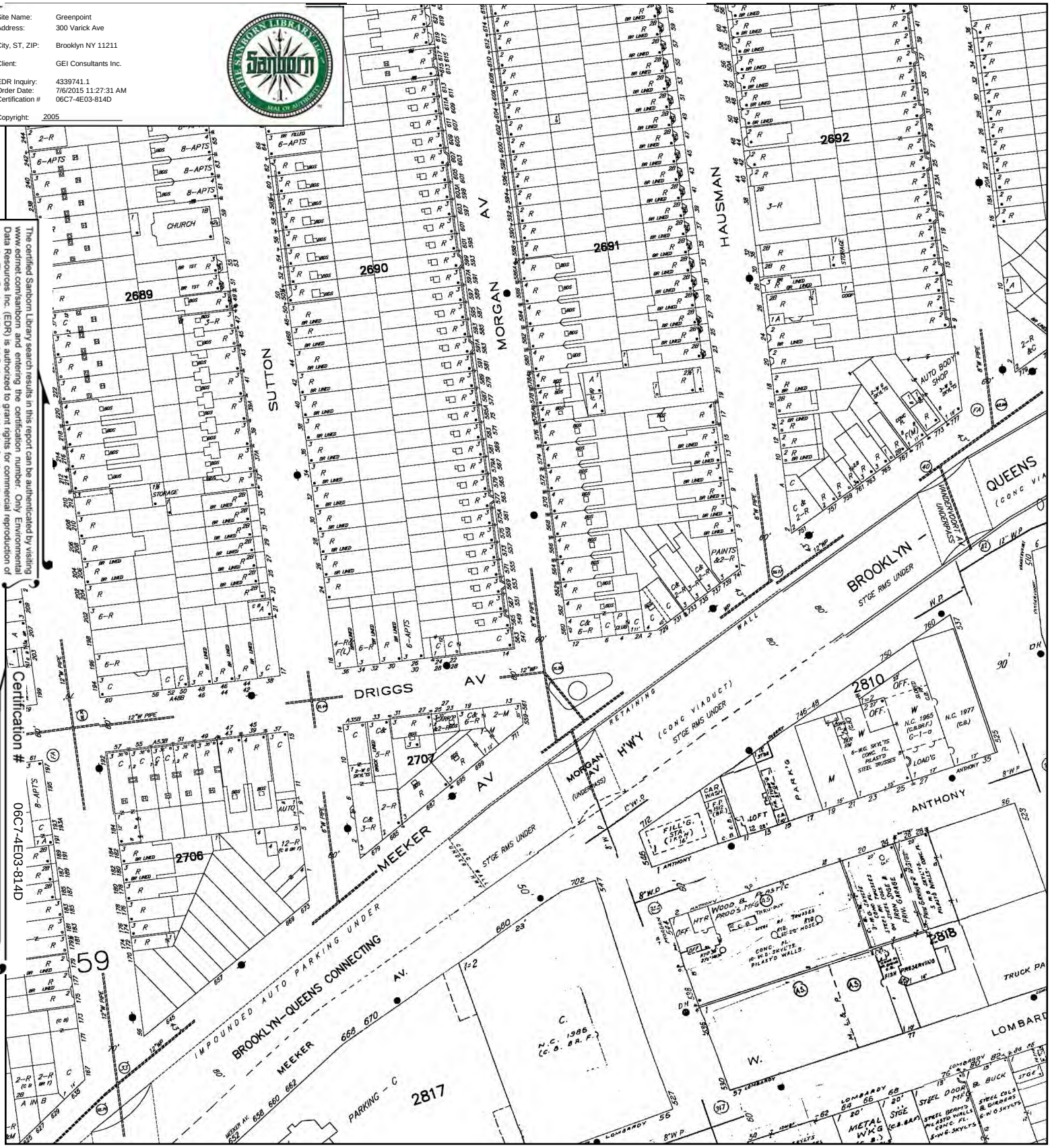

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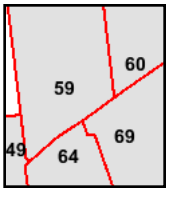

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N

2004 Certified Sanborn Map

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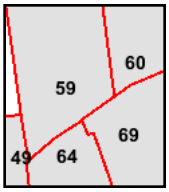

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Volume 4, Sheet 60

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2003 Certified Sanborn Map

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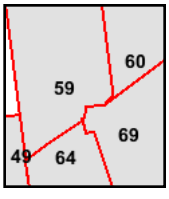

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N

2002 Certified Sanborn Map

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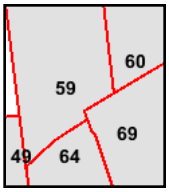

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2001 Certified Sanborn Map

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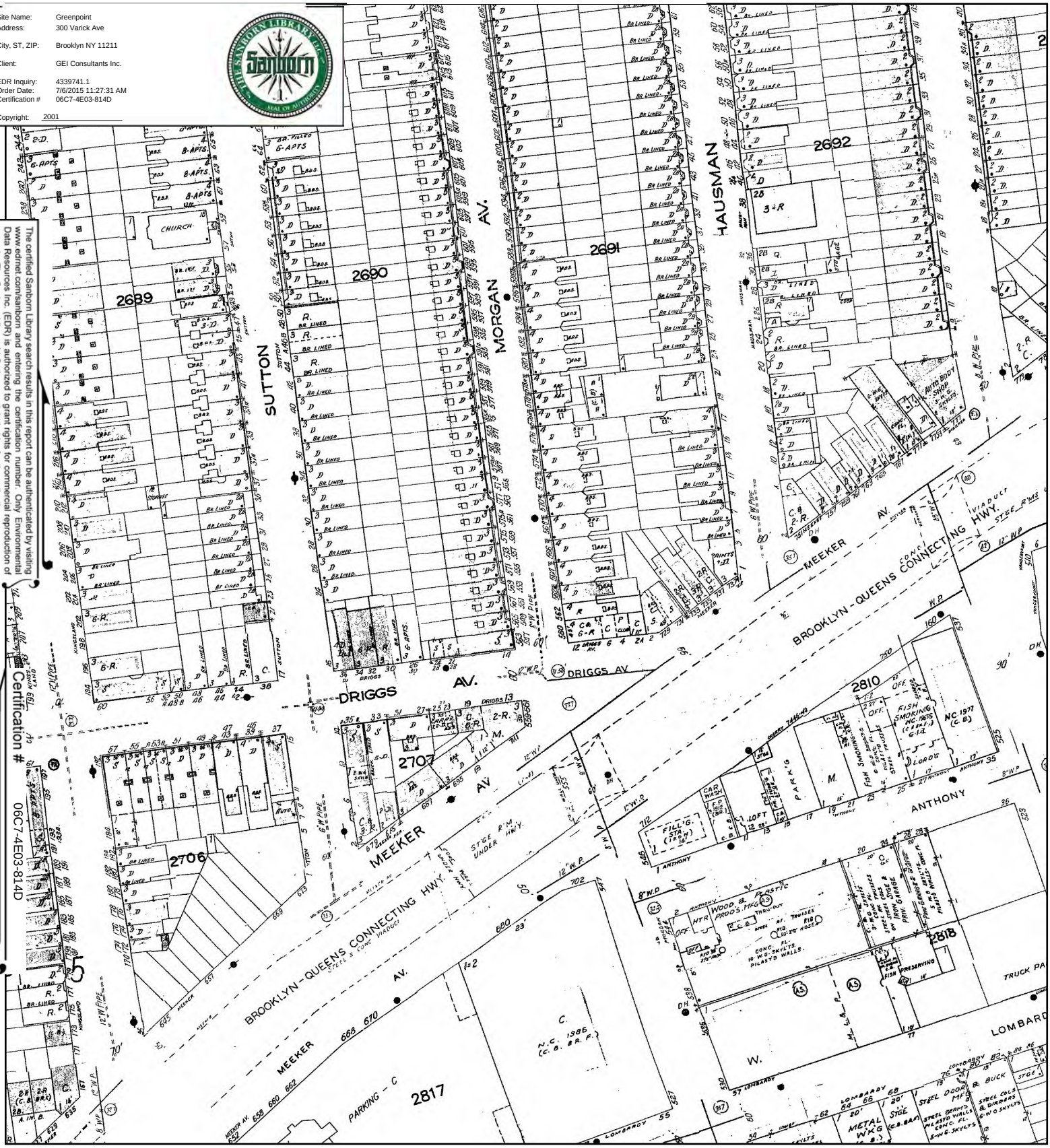

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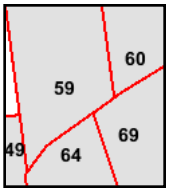

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N

1996 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
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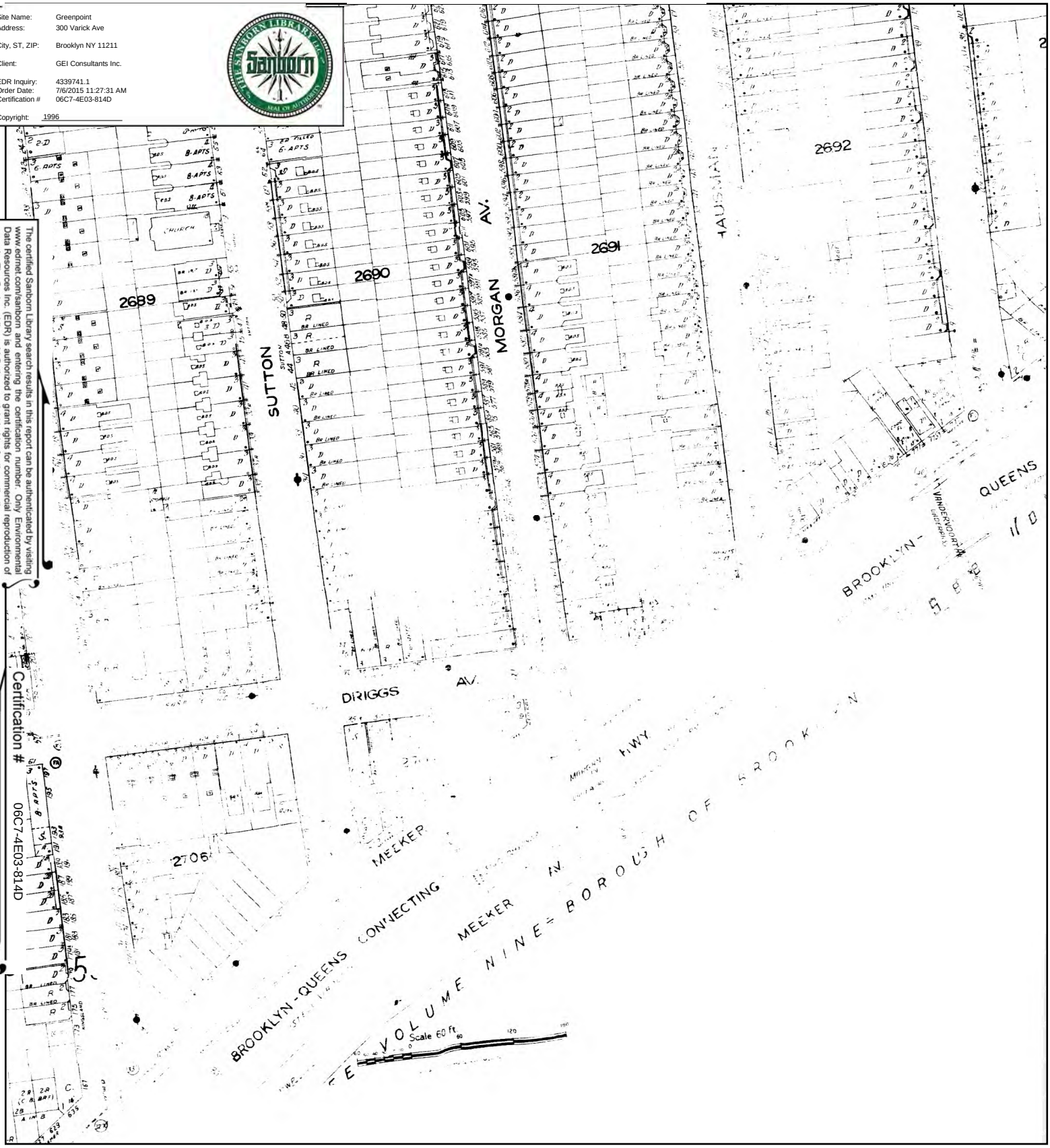

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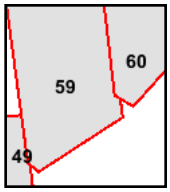

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1995 Certified Sanborn Map

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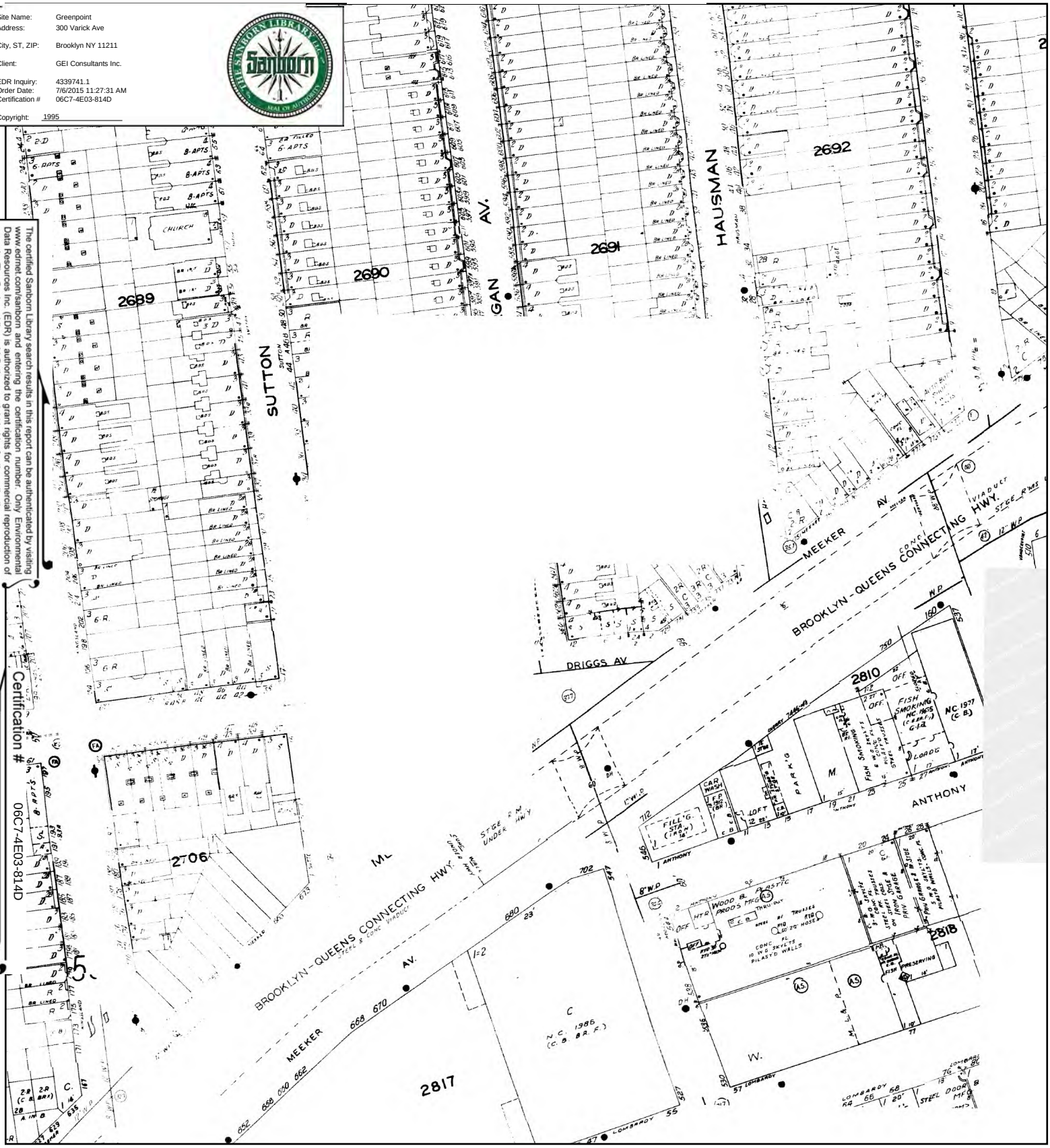

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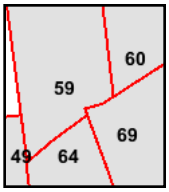

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1994 Certified Sanborn Map

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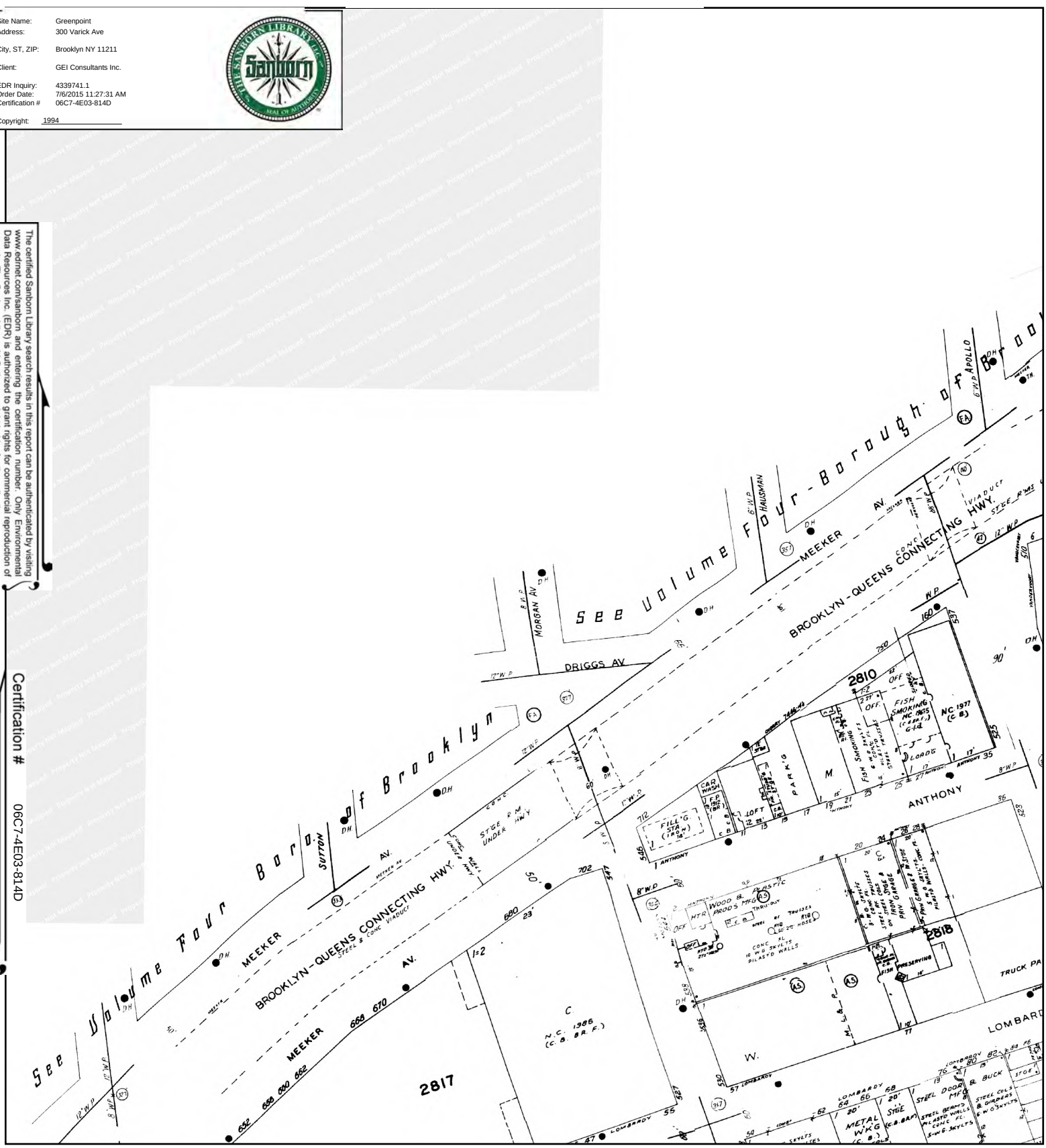

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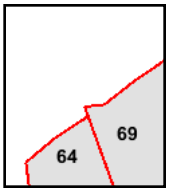

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1993 Certified Sanborn Map

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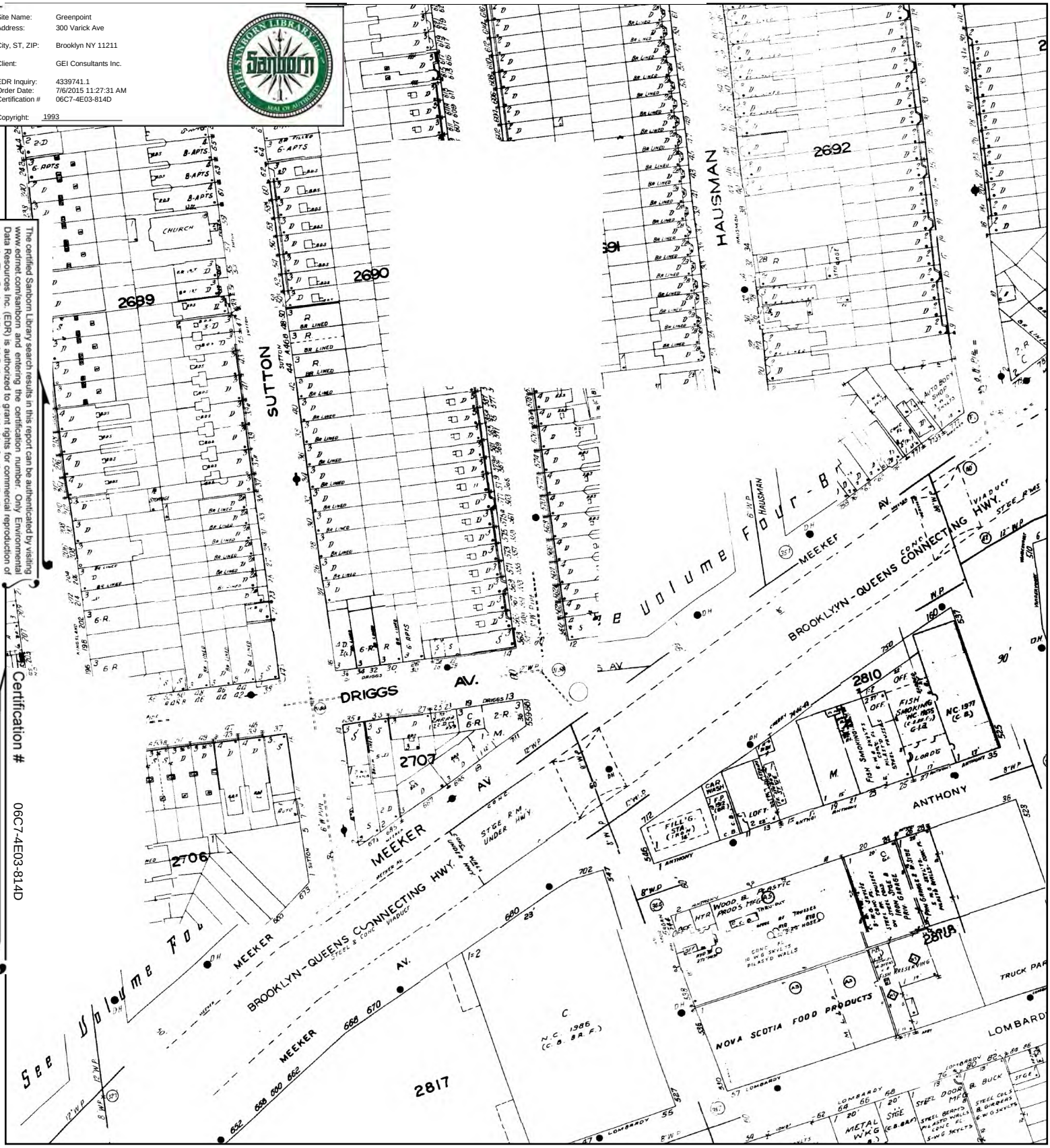

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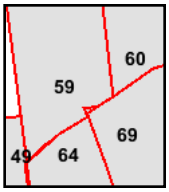

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1992 Certified Sanborn Map

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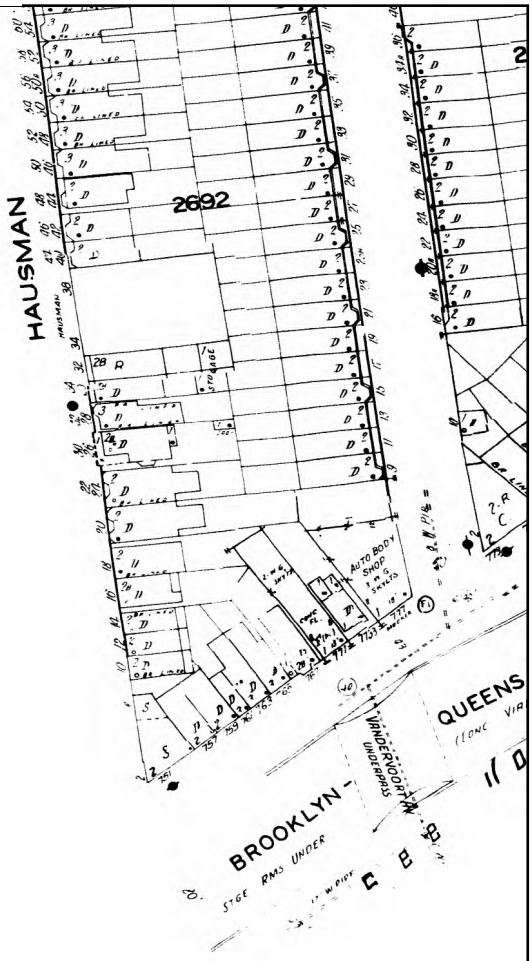

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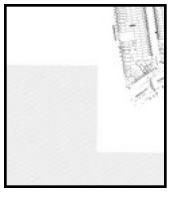

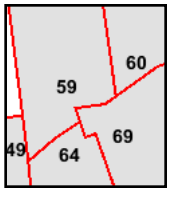

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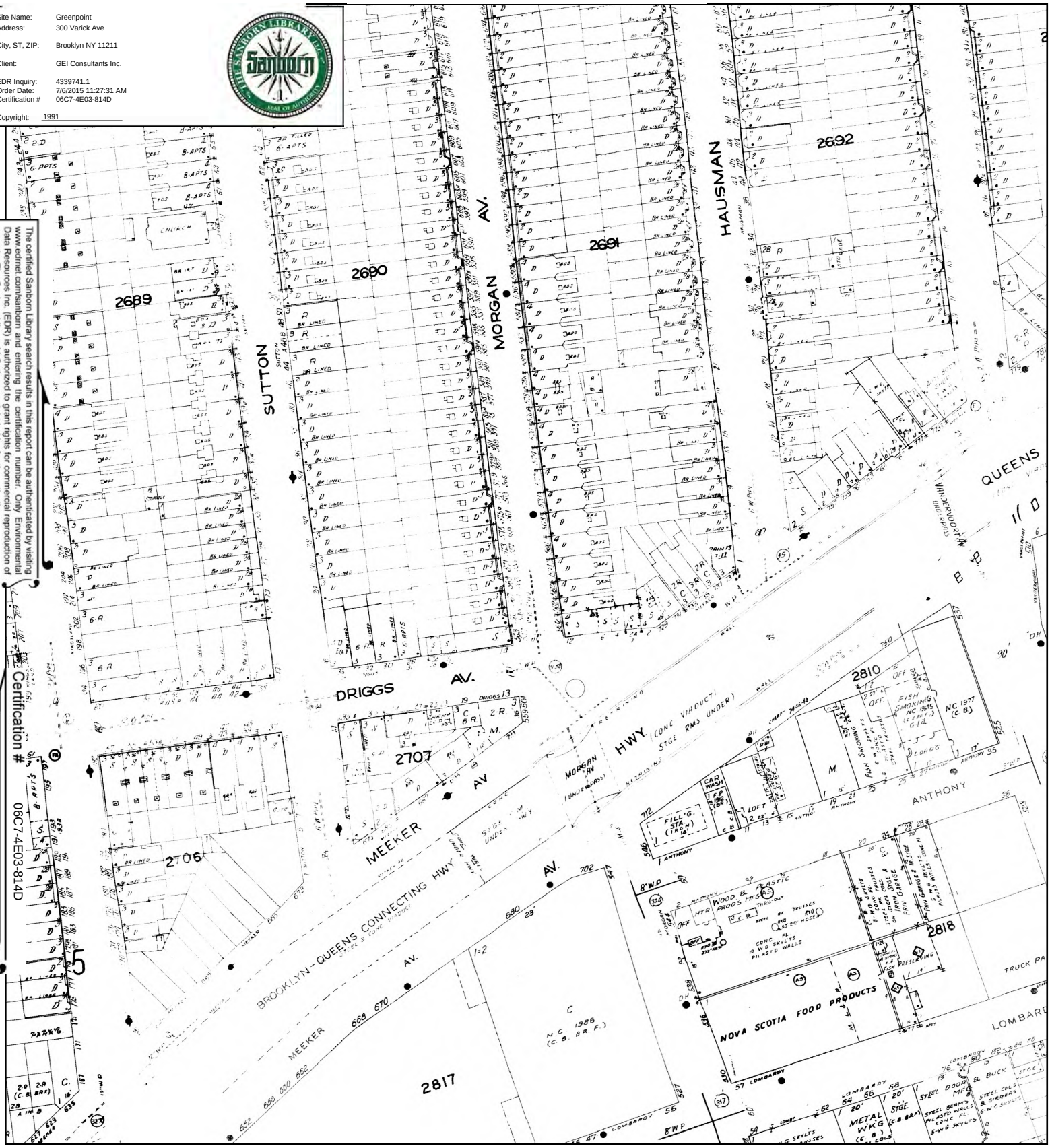

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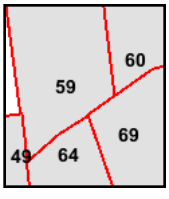

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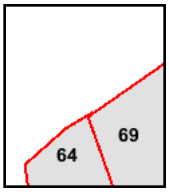

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1989 Certified Sanborn Map

Site Name: Greenpoint
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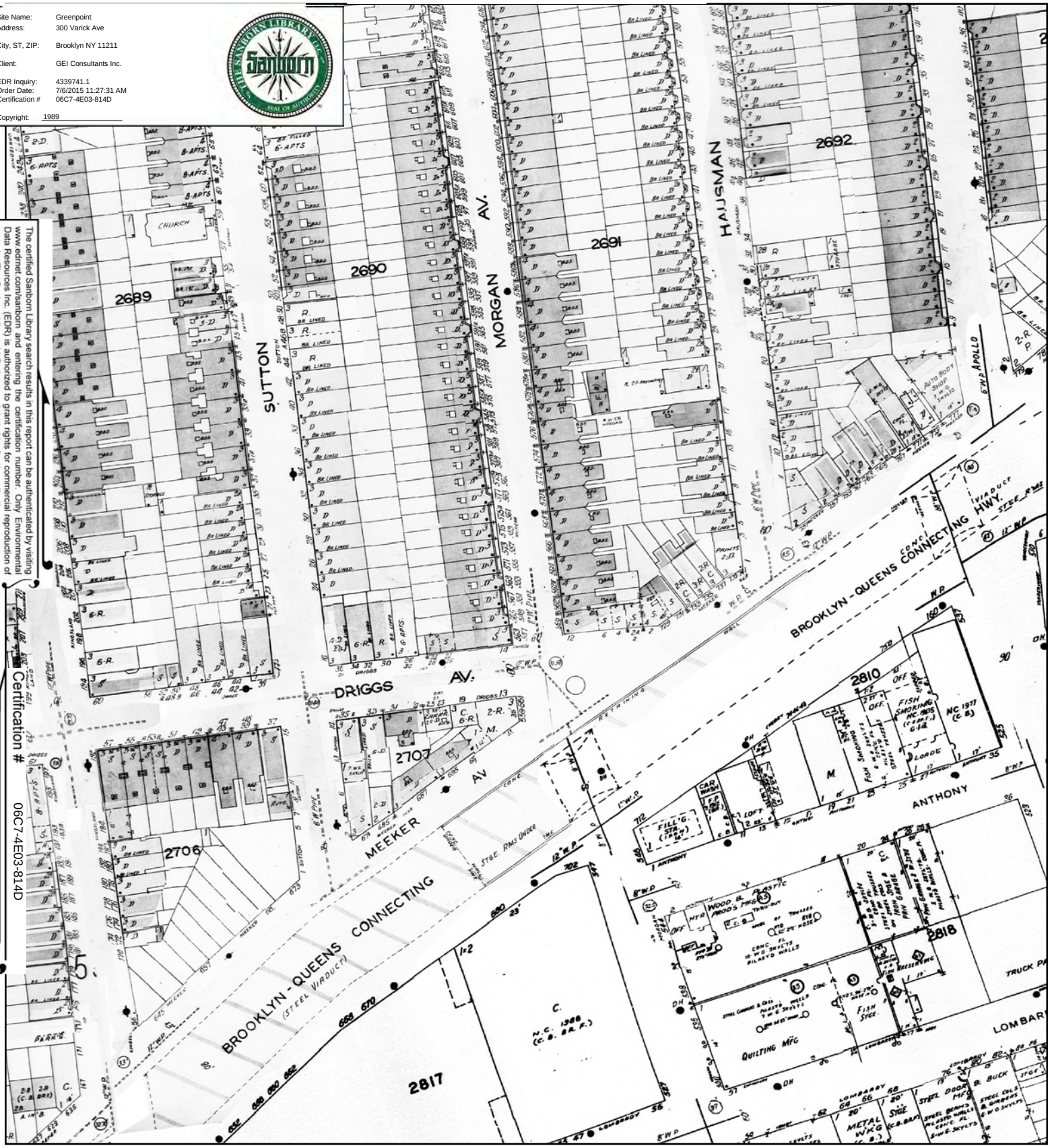

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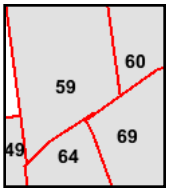

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1988 Certified Sanborn Map

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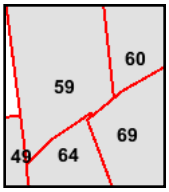

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Volume 4, Sheet 60
Volume 9, Sheet 64
Volume 9, Sheet 69

1987 Certified Sanborn Map

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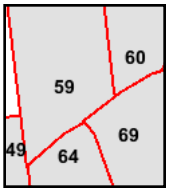

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1986 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
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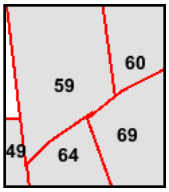

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N

1983 Certified Sanborn Map

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EDR Inquiry: 4339741.1
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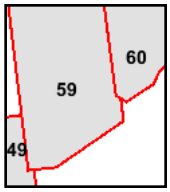

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N

1982 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1982

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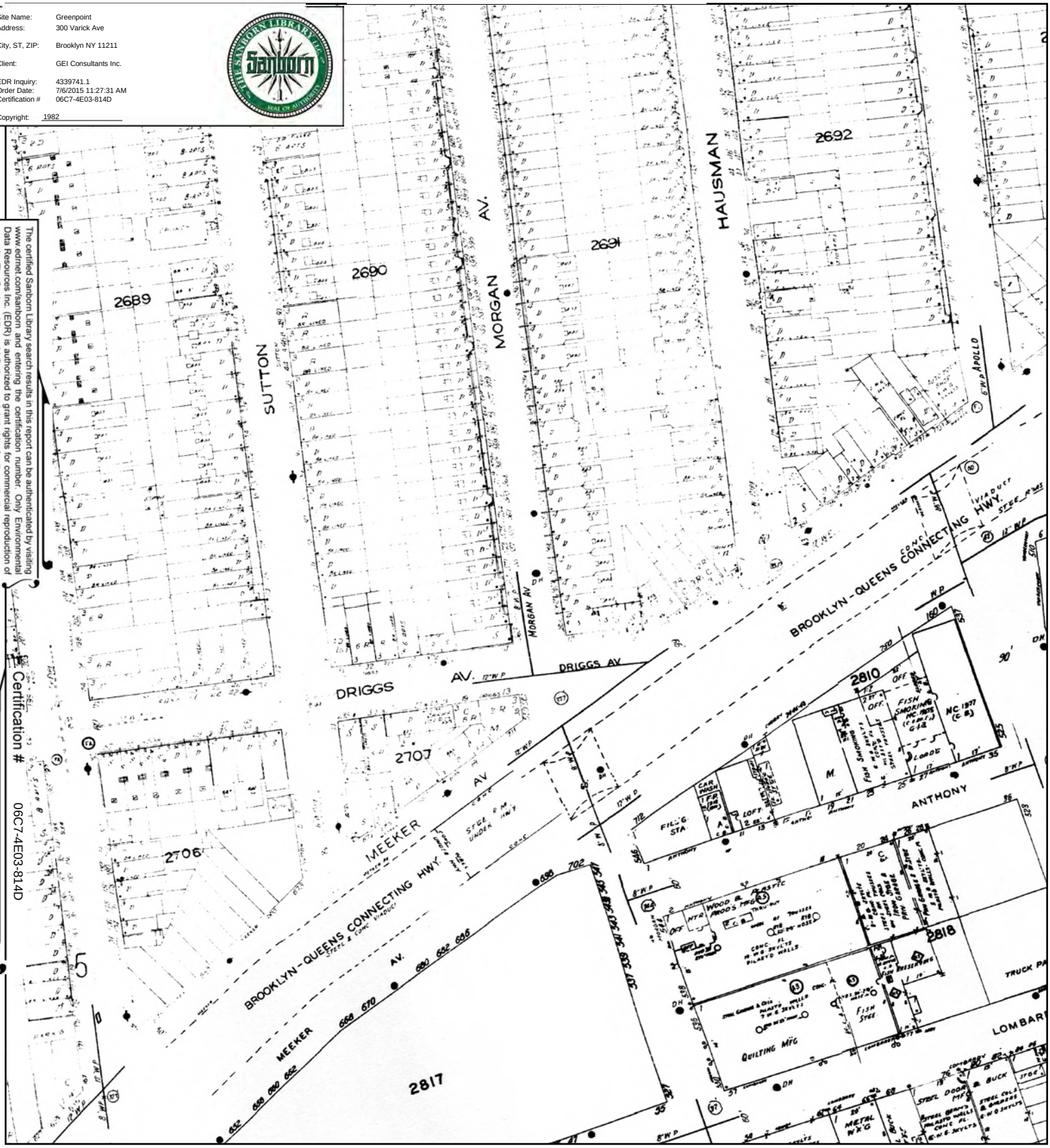

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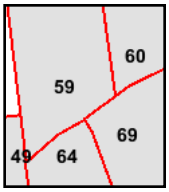

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Volume 9, Sheet 69
Volume 9, Sheet 64

N

1981 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
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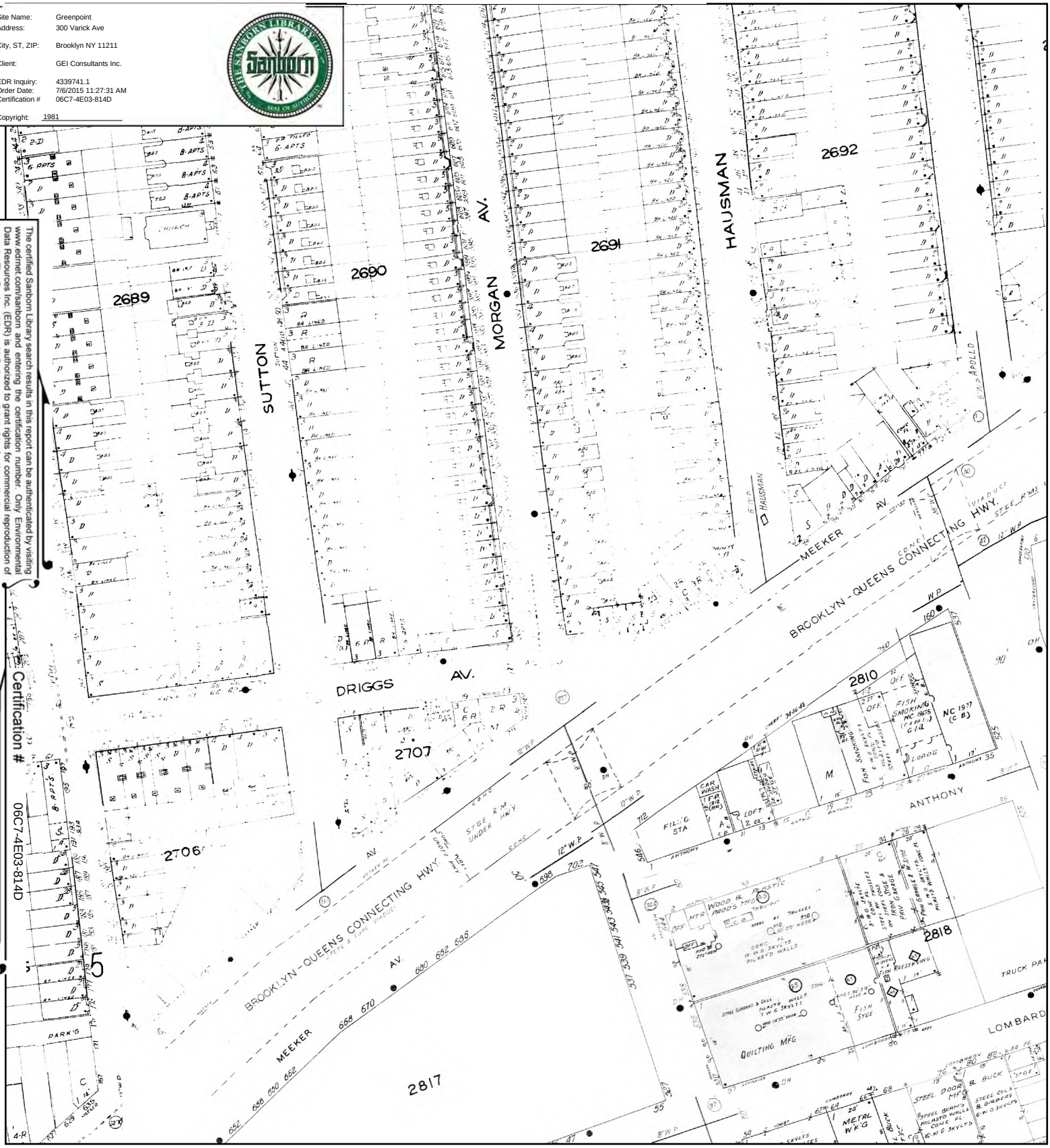

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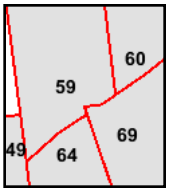

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Volume 4, Sheet 59
Volume 4, Sheet 60

N

1980 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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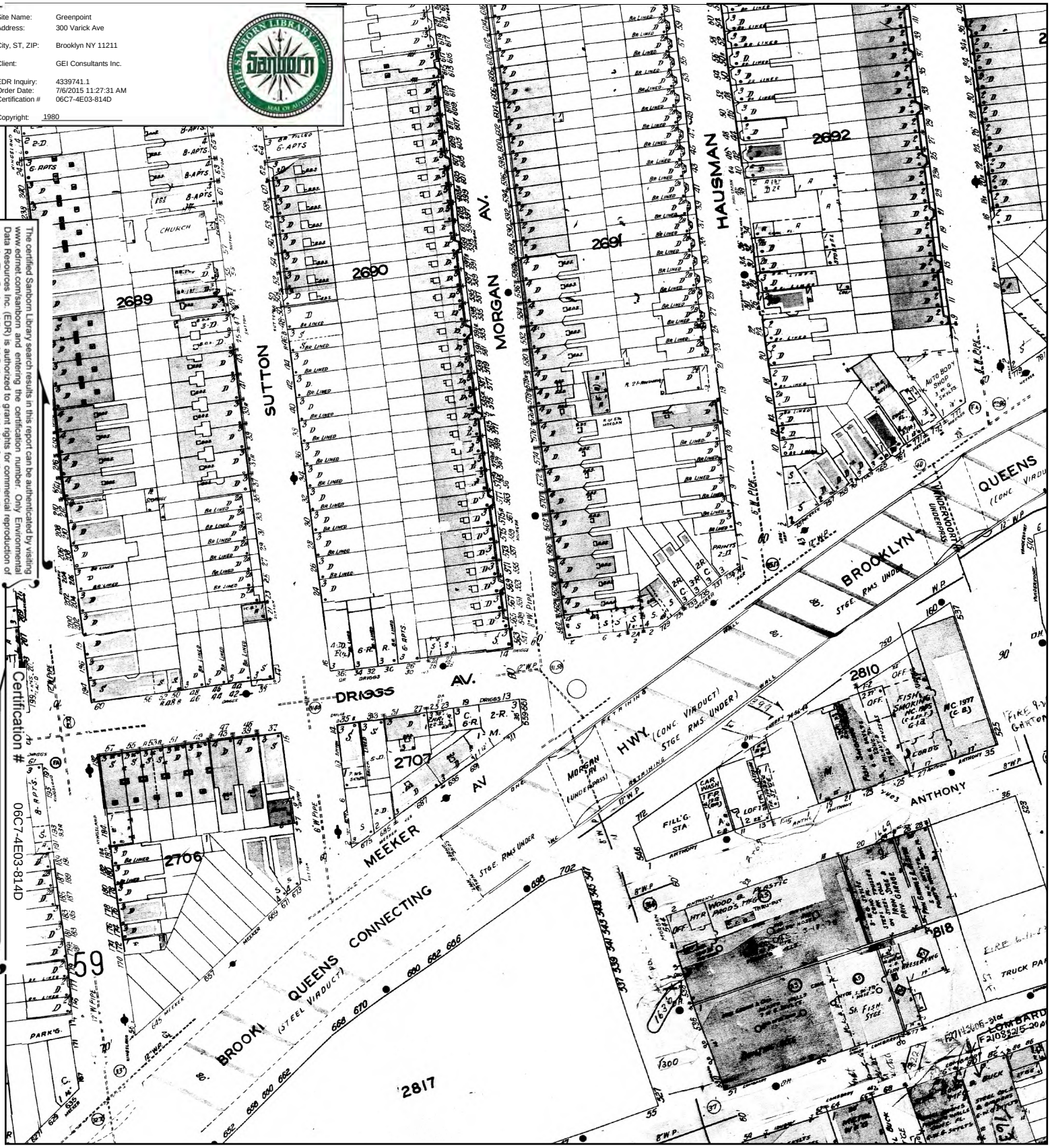

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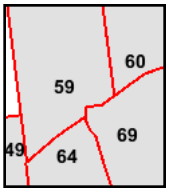

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Volume 9, Sheet 64
Volume 9, Sheet 69

N

1979 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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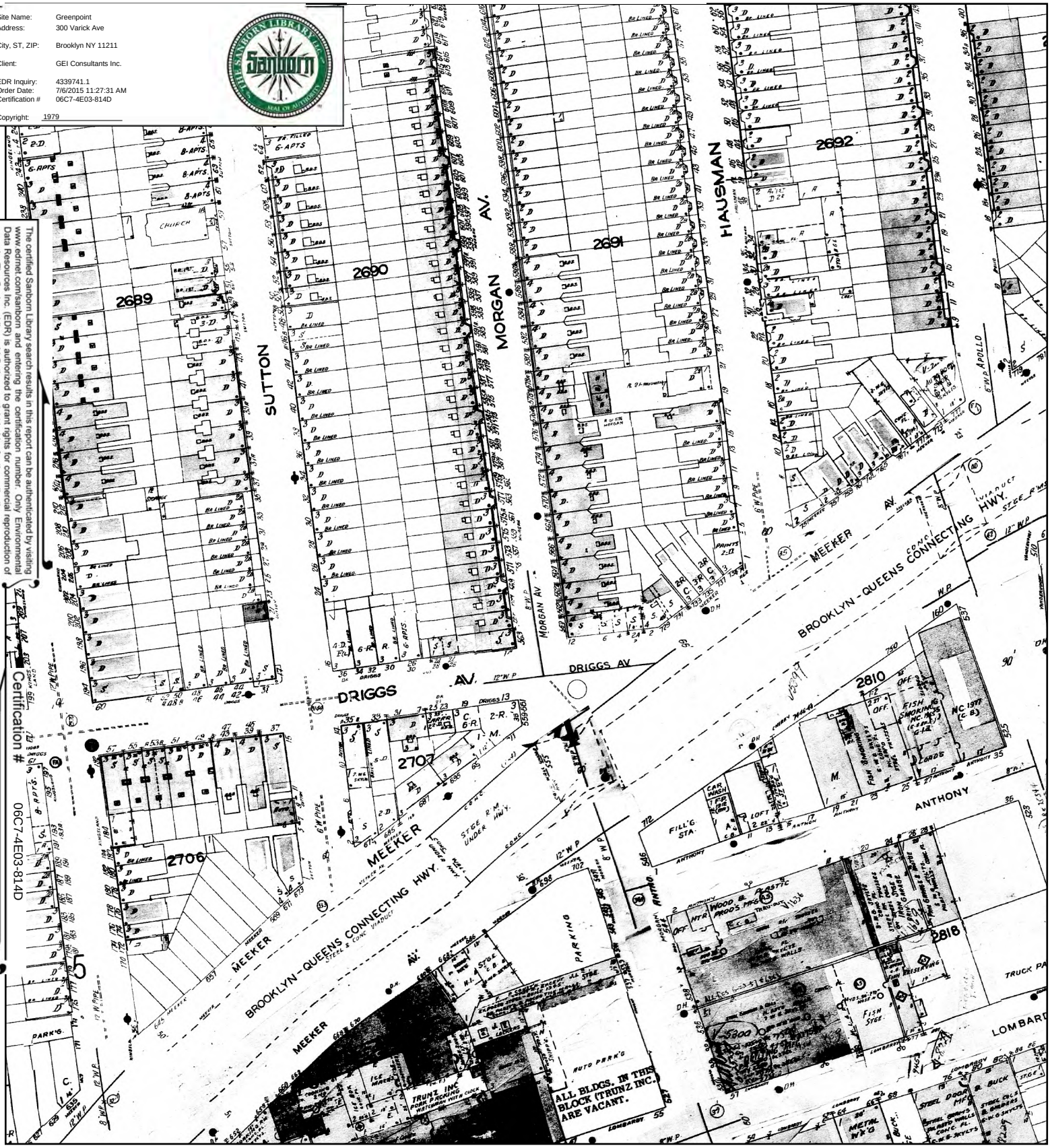
Certification # 06C7-4E03-814D



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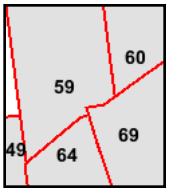

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Volume 4, Sheet 59
Volume 4, Sheet 60

N

1978 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1978

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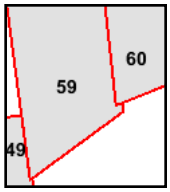

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N

1977 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1977

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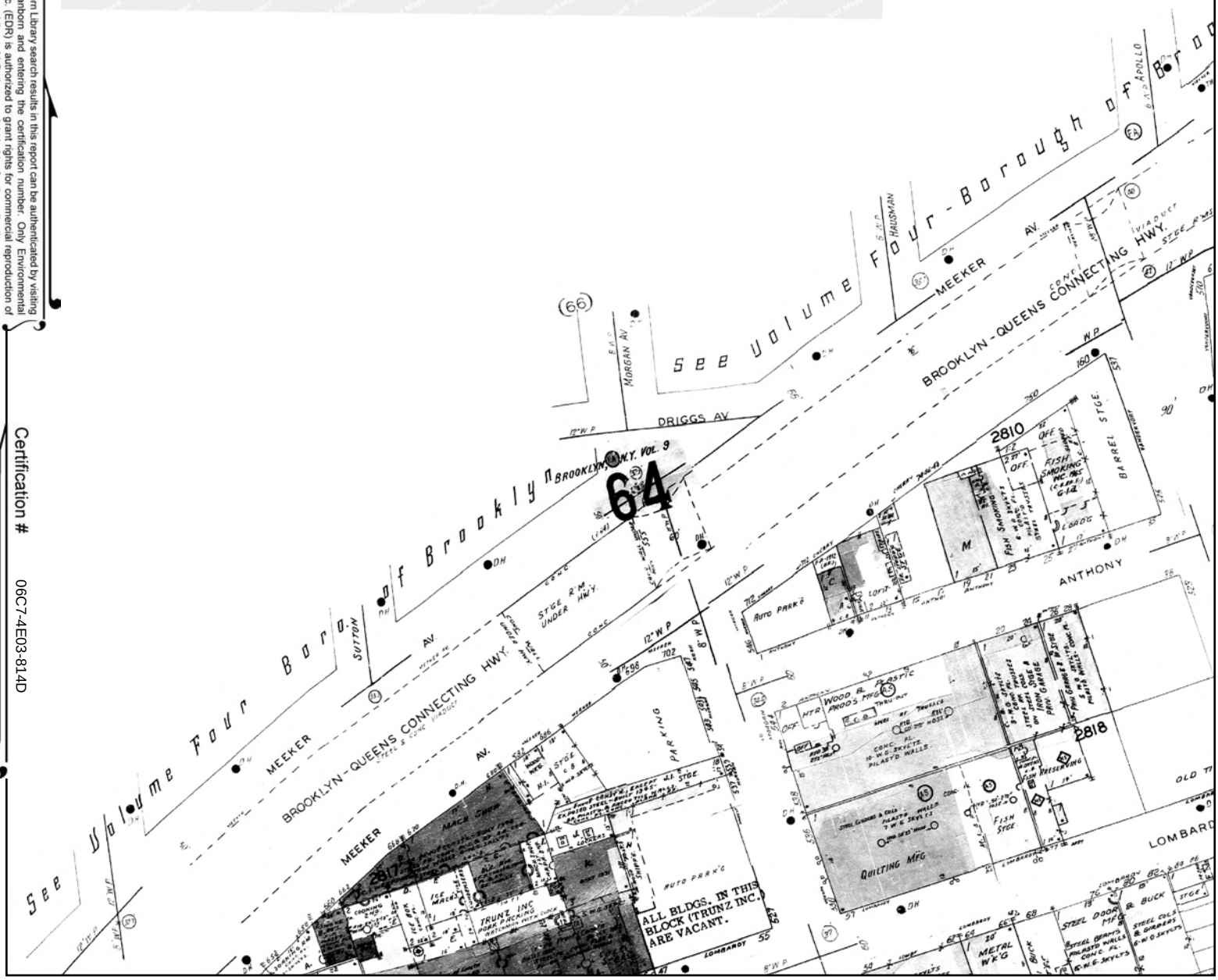
Certification # 06C7-4E03-814D



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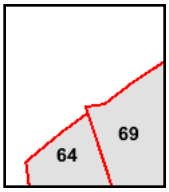

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N

1968 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1968

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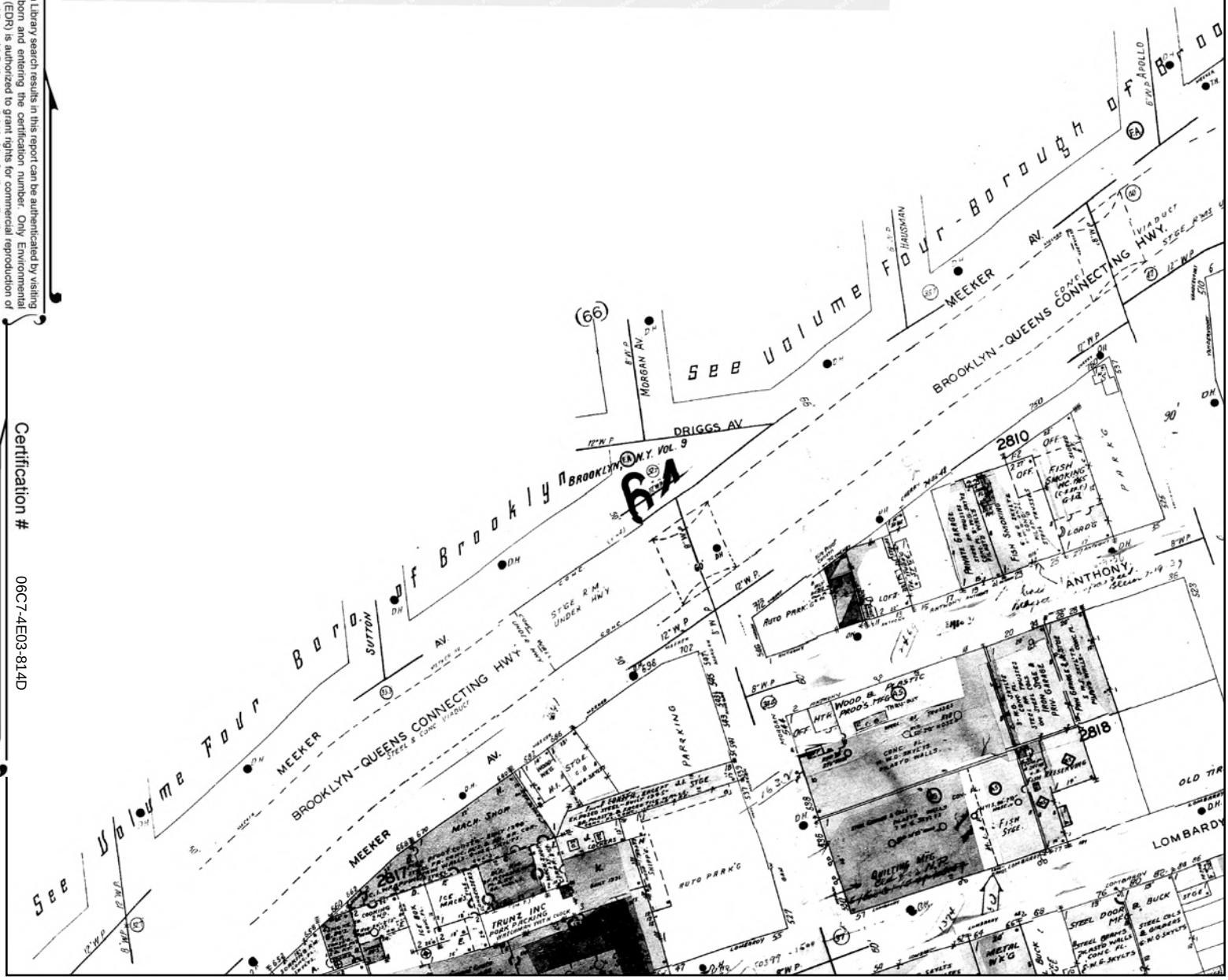
Certification # 06C7-4E03-814D



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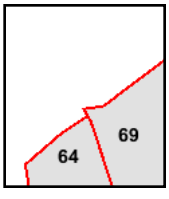

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N

1965 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1965

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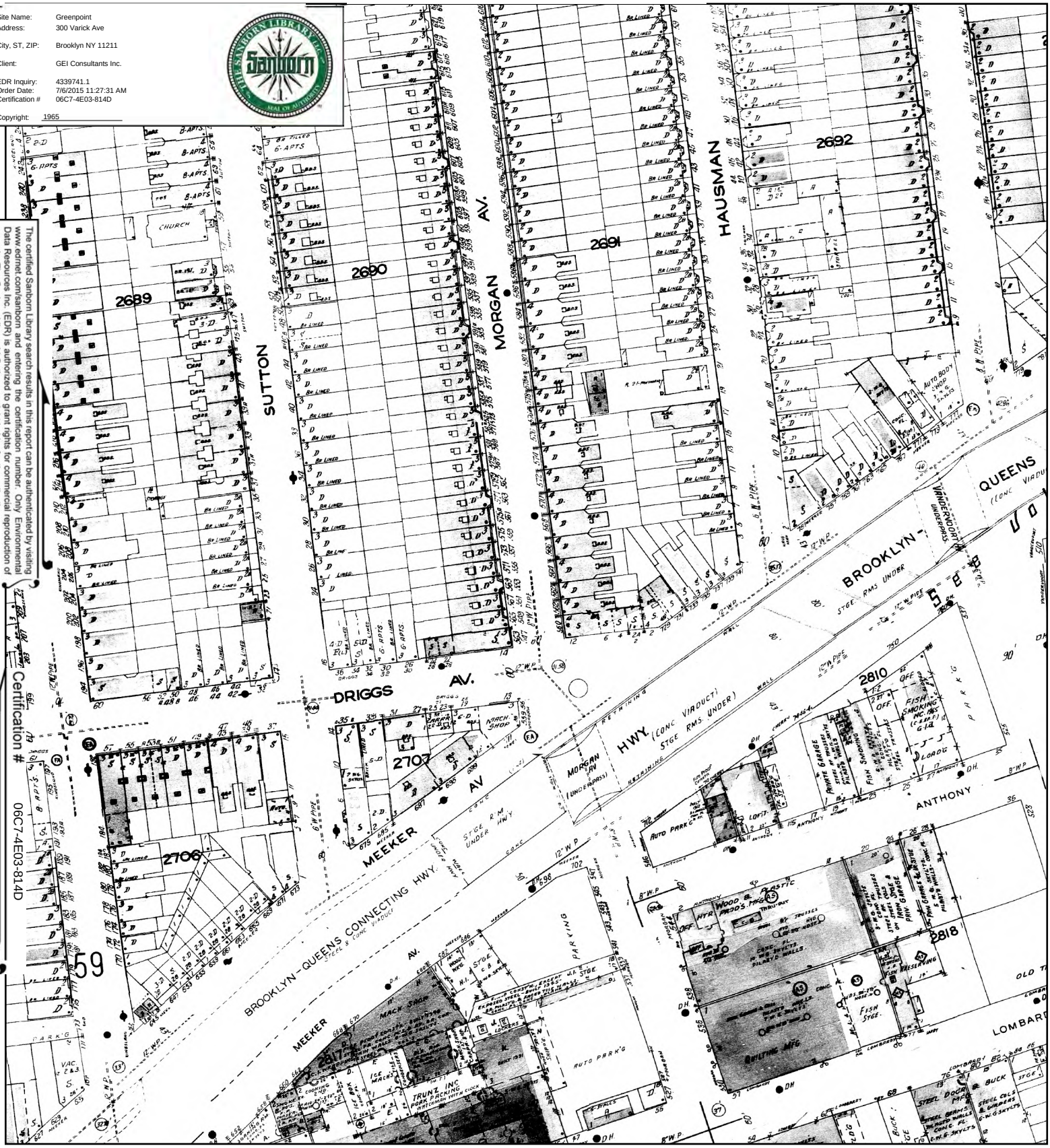
Certification # 06C7-4E03-814D



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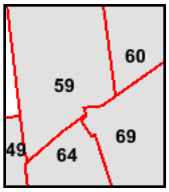

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N

1951 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1951

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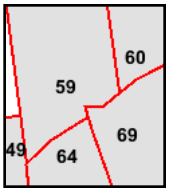

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Volume 9, Sheet 64
Volume 9, Sheet 69

1942 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1942

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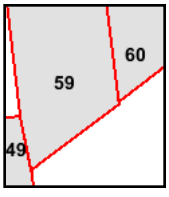

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Volume 4, Sheet 59

0 Feet 165 330 660

N

1933 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1933

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Certification # 06C7-4E03-814D



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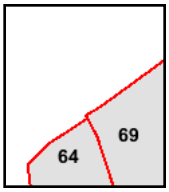

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N

1916 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave

City, ST, ZIP: Brooklyn NY 11211

Client: GEI Consultants Inc.

EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D

Copyright: 1916

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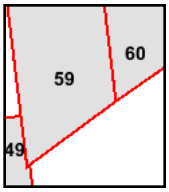

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0 Feet 165 330 660

N

1907 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1907

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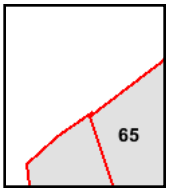

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N

1905 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1905

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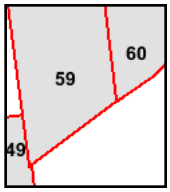

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N

1888 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1888

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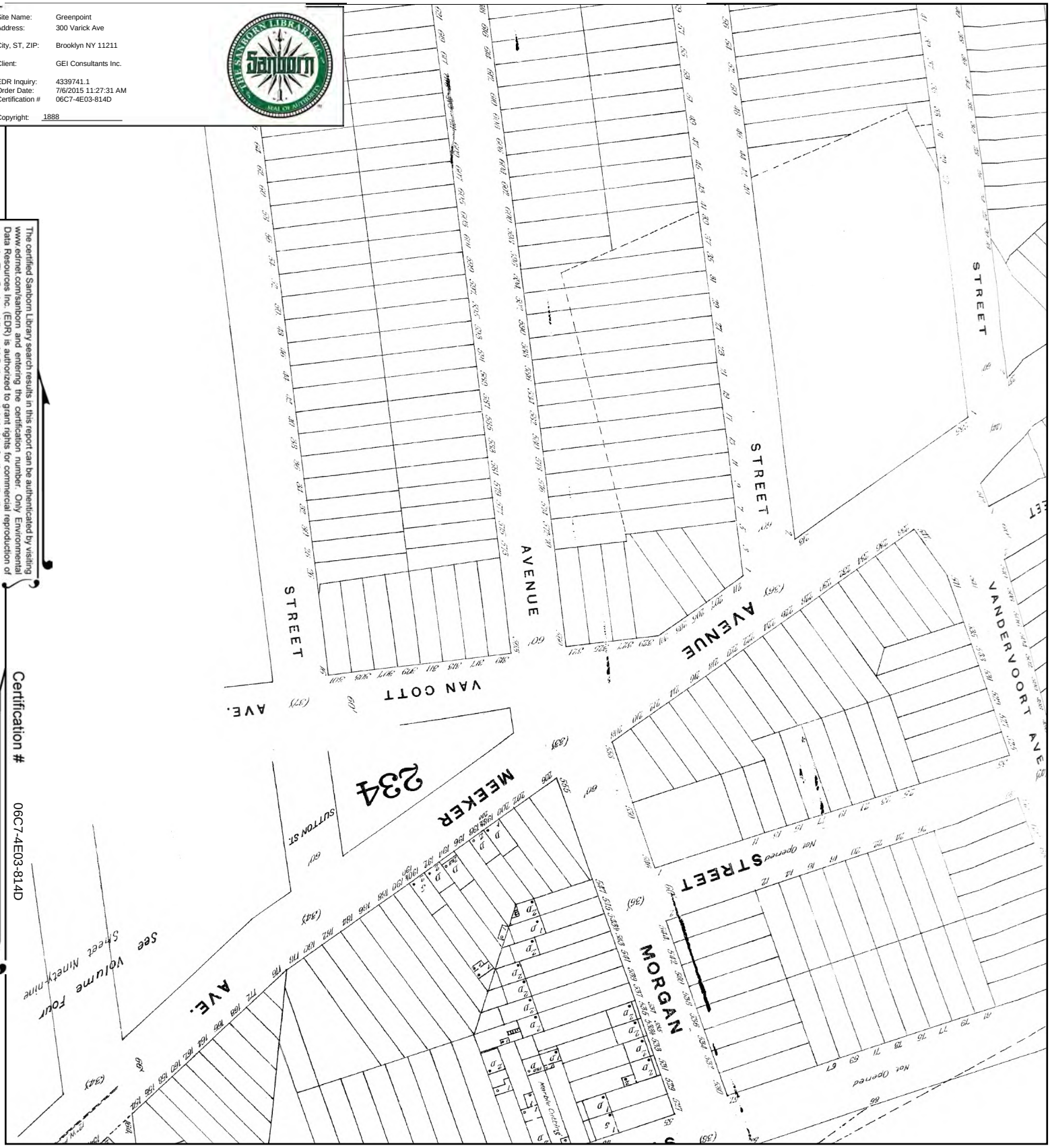
Certification # 06C7-4E03-814D



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Outlined areas indicate map sheets within the collection.

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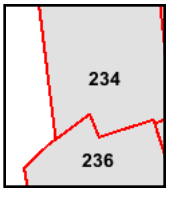

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Volume 9, Sheet 236
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N

1887 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1887

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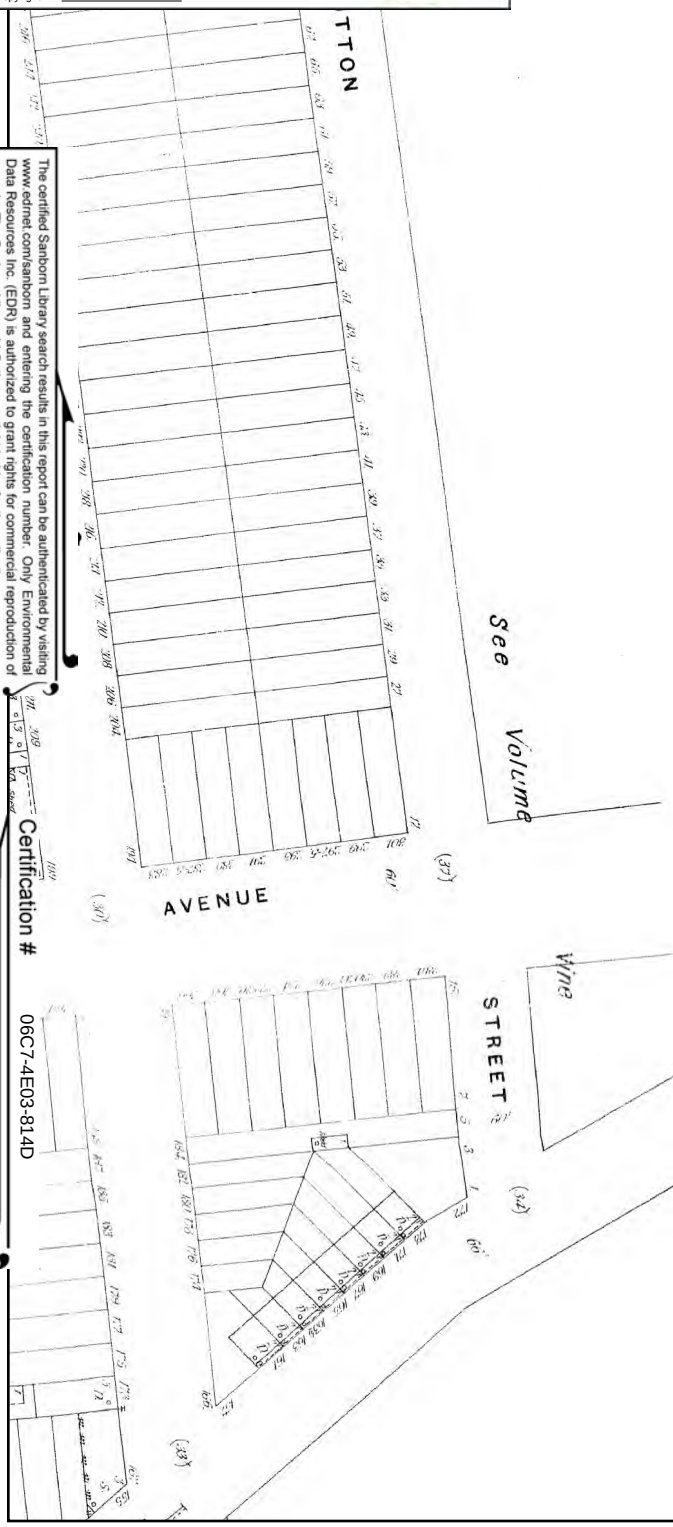
Certification # 06C7-4E03-814D



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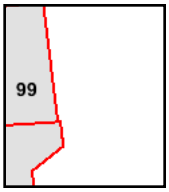

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Volume 4, Sheet 99

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1991	1983	1977
2006	1996	1990	1982	1968
2005	1995	1989	1981	1965
2004	1994	1988	1980	1951
2003	1993	1987	1979	1942
2002	1992	1986	1978	1933

1916
1907
1905
1888

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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Volume 9, Sheet 70

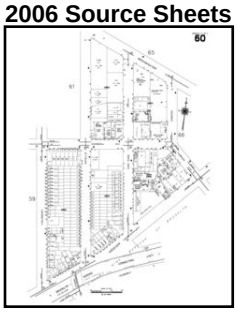


Volume 9, Sheet 73



Volume 4, Sheet 60

2006 Source Sheets



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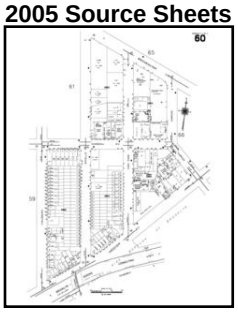
2005 Source Sheets



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2004 Source Sheets



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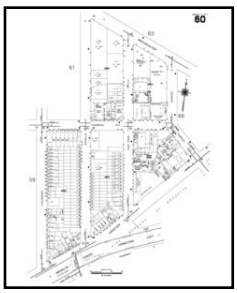

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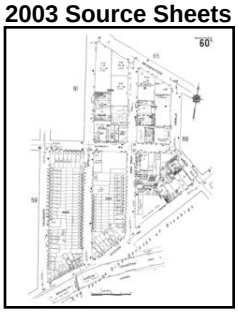
2003 Source Sheets



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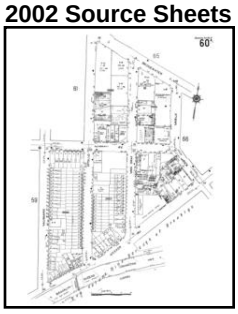
2002 Source Sheets



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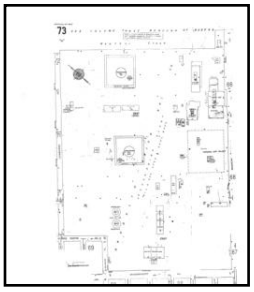

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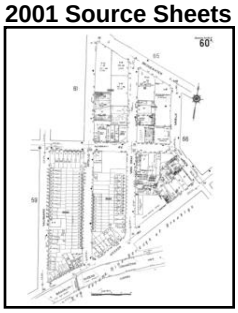

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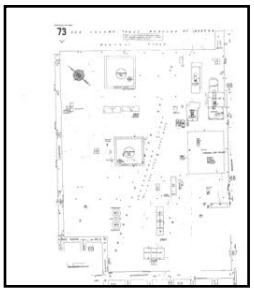

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1996 Source Sheets



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1995 Source Sheets



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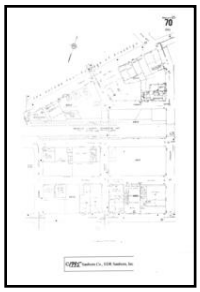

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1994 Source Sheets



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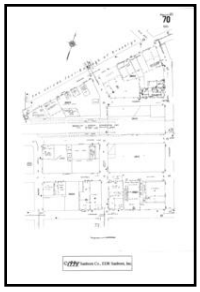

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1993 Source Sheets



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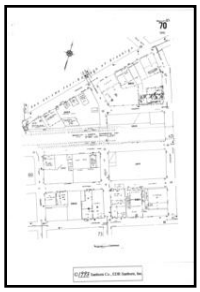

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1992 Source Sheets



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1991 Source Sheets



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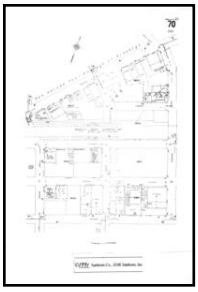

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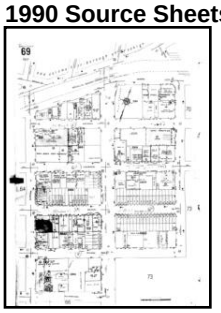

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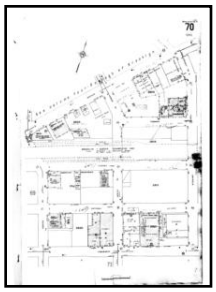

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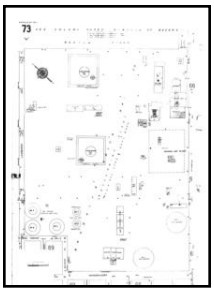

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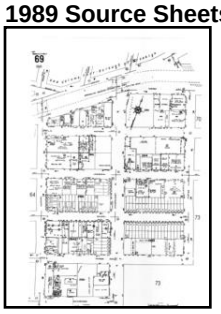

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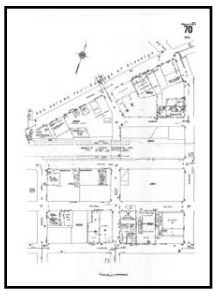

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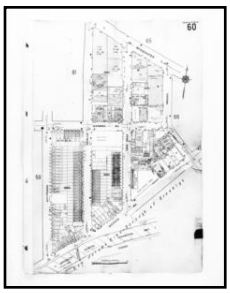

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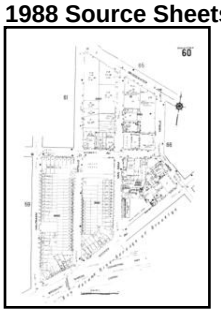
1988 Source Sheets



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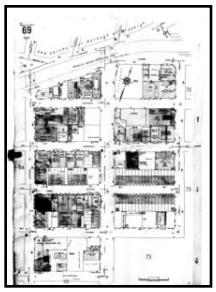

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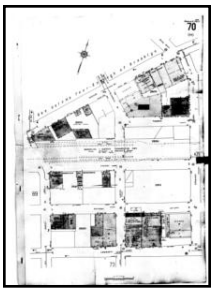

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1987 Source Sheets



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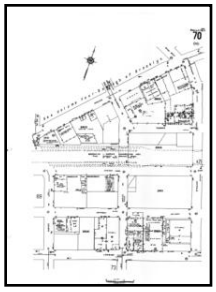

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1986 Source Sheets



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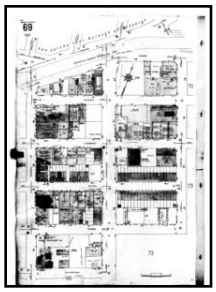

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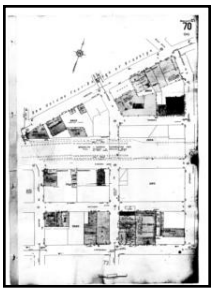

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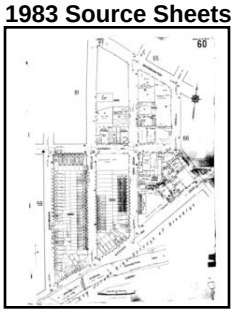

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1982 Source Sheets



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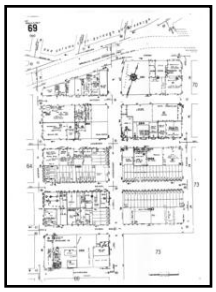

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1981 Source Sheets



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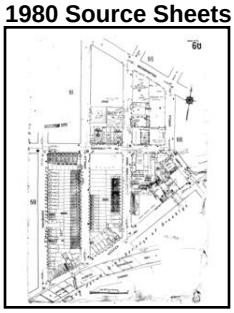
1980 Source Sheets



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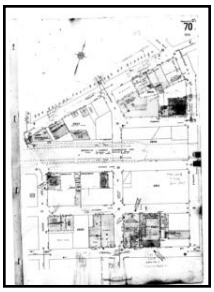

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1979 Source Sheets



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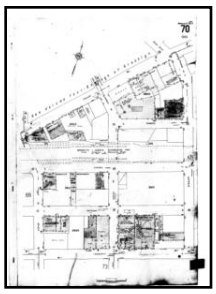

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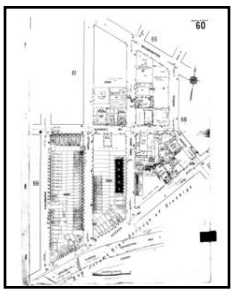

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1978 Source Sheets



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1977 Source Sheets



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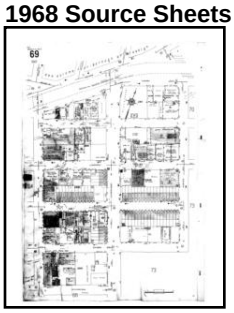
1968 Source Sheets



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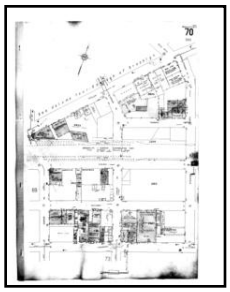

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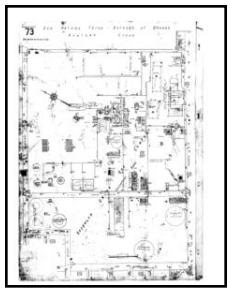

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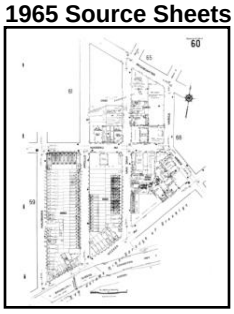

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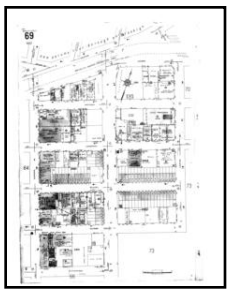

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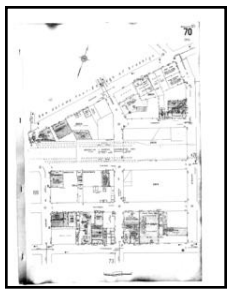

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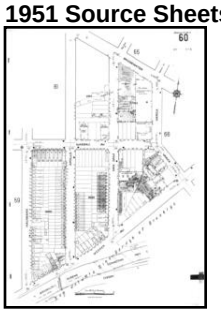
1951 Source Sheets



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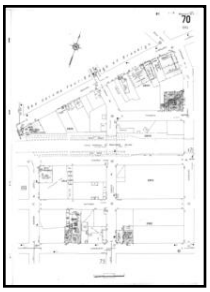

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1942 Source Sheets



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1933 Source Sheets



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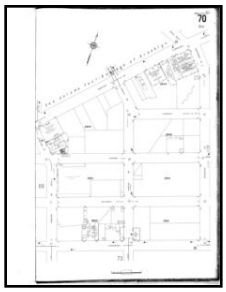

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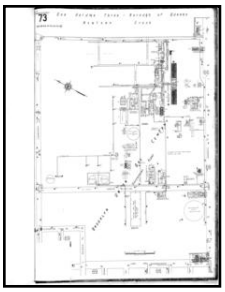

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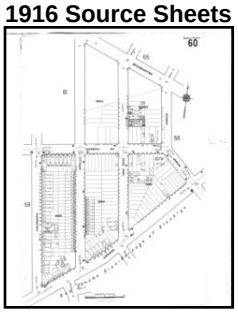

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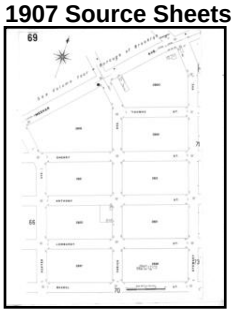
1907 Source Sheets



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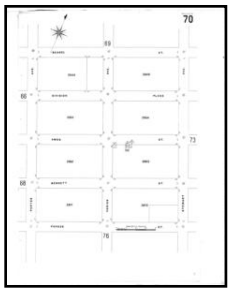

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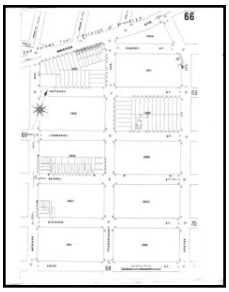

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1905 Source Sheets



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1888 Source Sheets



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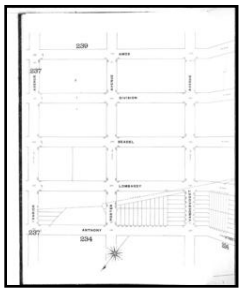

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2007 Certified Sanborn Map

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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 2007

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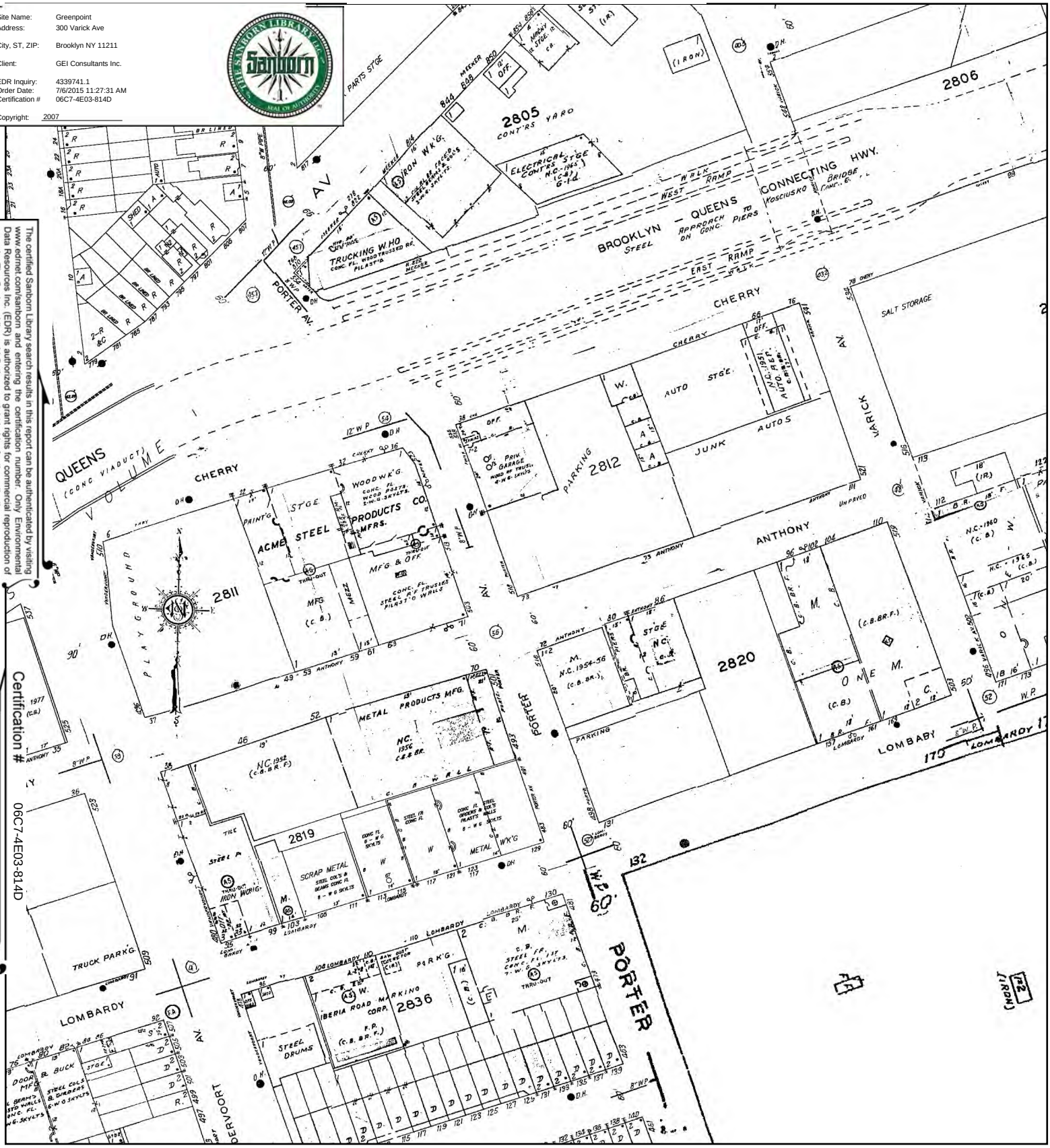
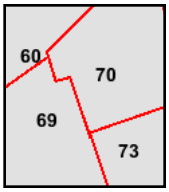


This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 165 330 660





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Volume 4, Sheet 60

N

2006 Certified Sanborn Map

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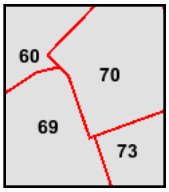

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Volume 9, Sheet 69
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Volume 9, Sheet 73

N

2005 Certified Sanborn Map

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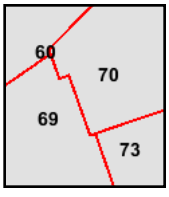

Volume 4, Sheet 60
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2004 Certified Sanborn Map

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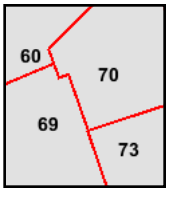

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2003 Certified Sanborn Map

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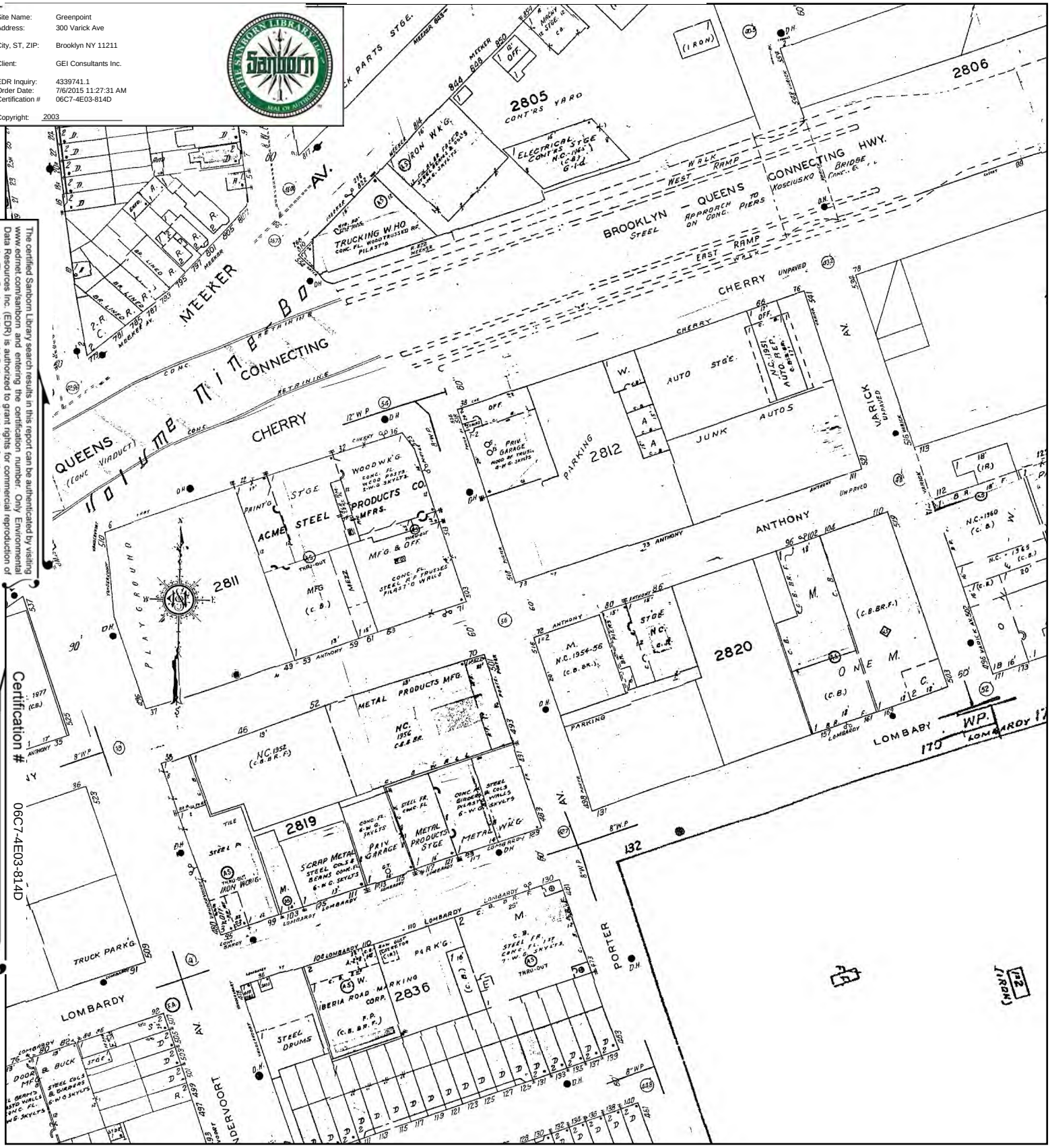

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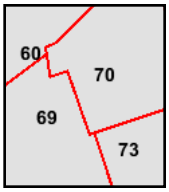

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N

2002 Certified Sanborn Map

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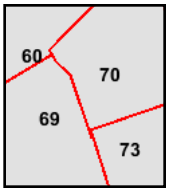

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N

2001 Certified Sanborn Map

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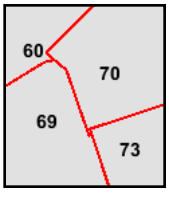

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1996 Certified Sanborn Map

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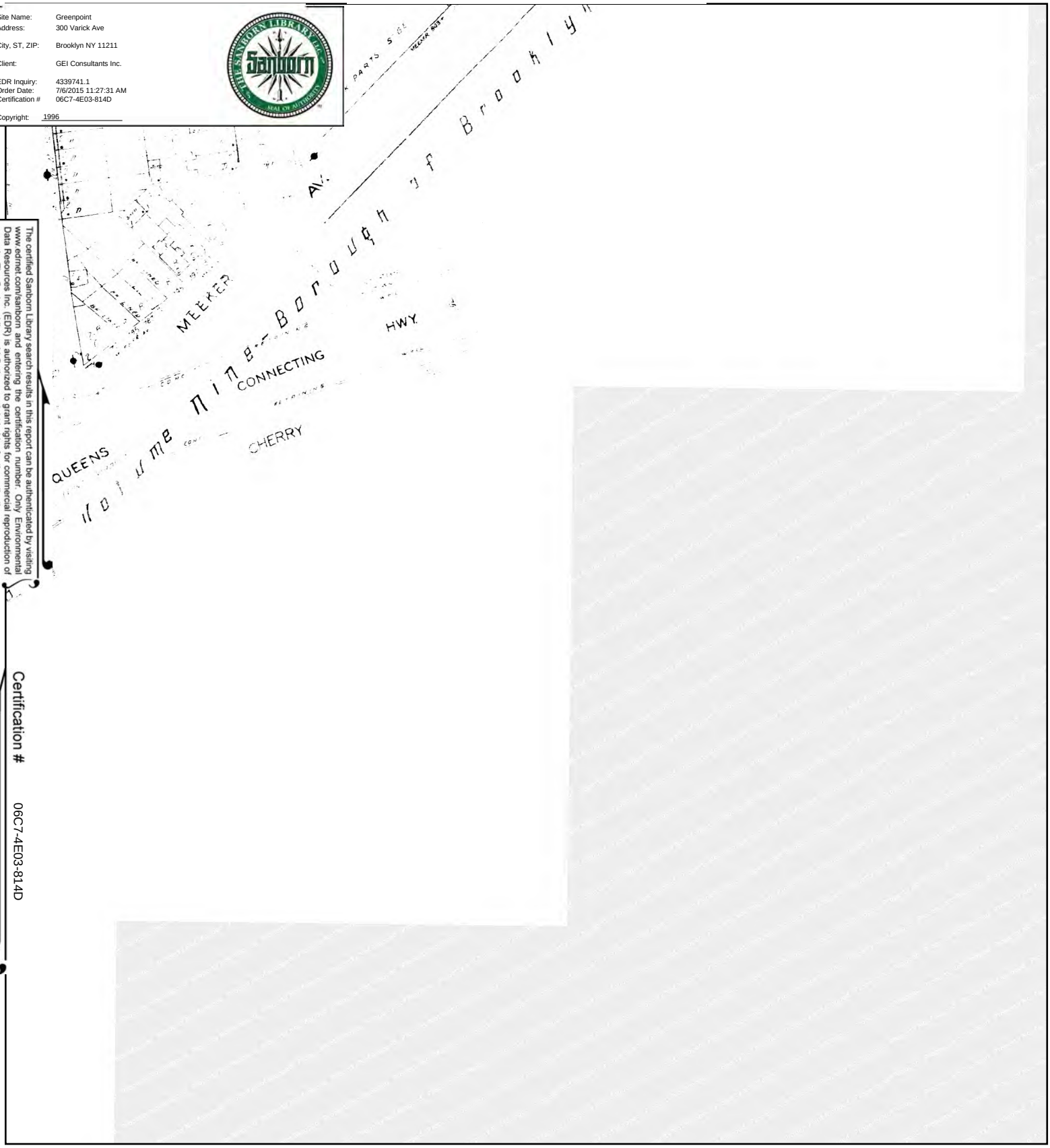
Copyright: 1996



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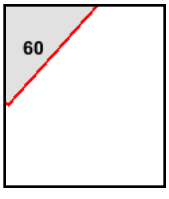

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1995 Certified Sanborn Map

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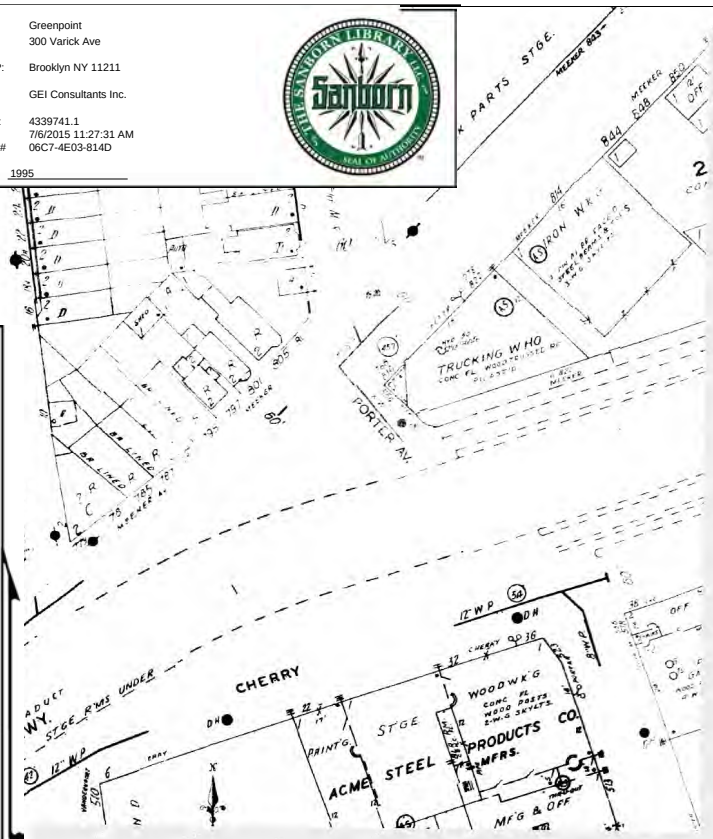

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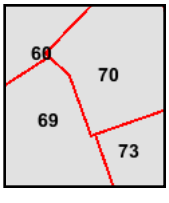

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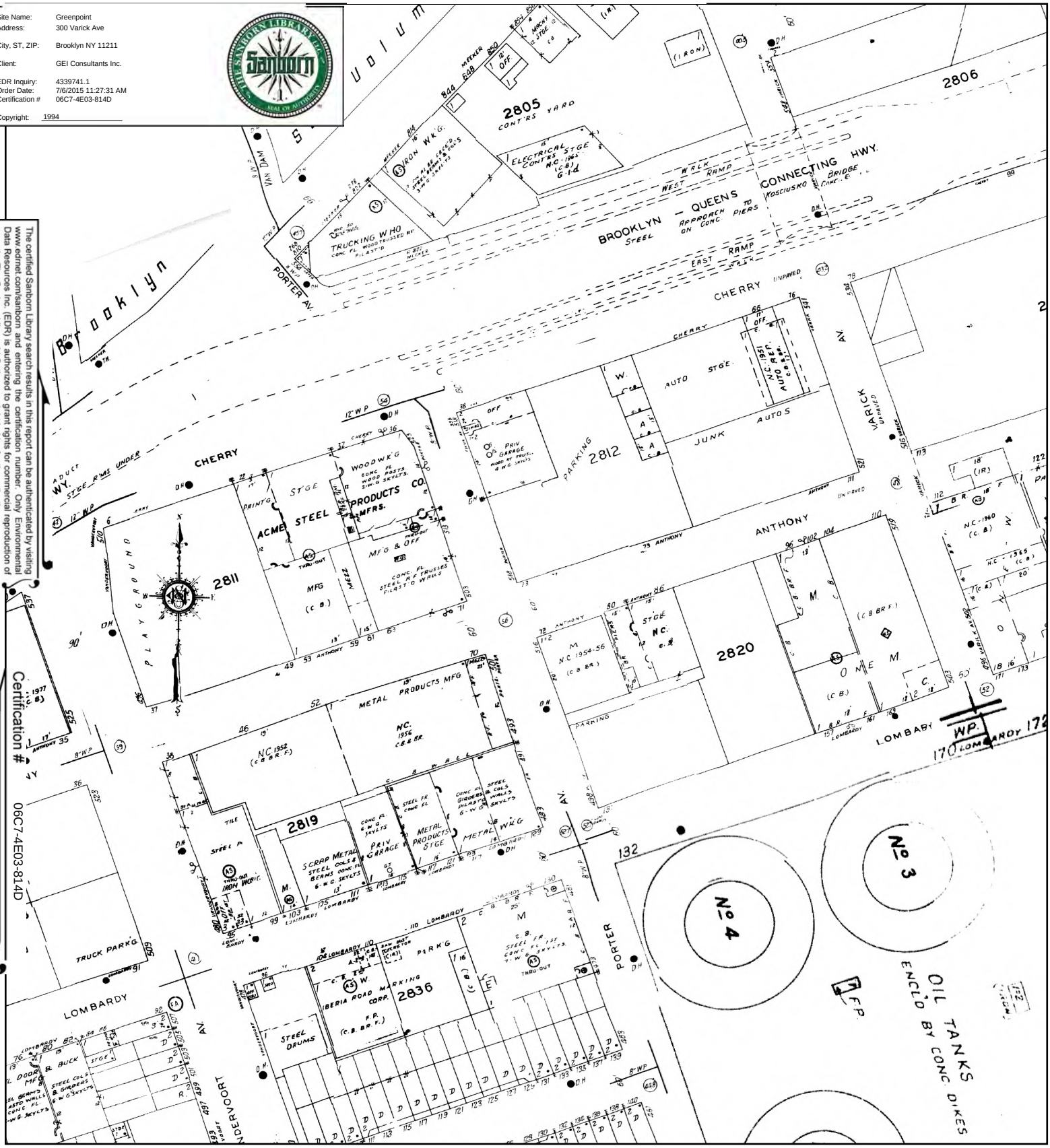

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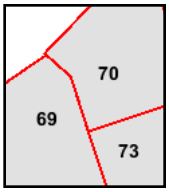

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0 Feet 165 330 660

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1993 Certified Sanborn Map

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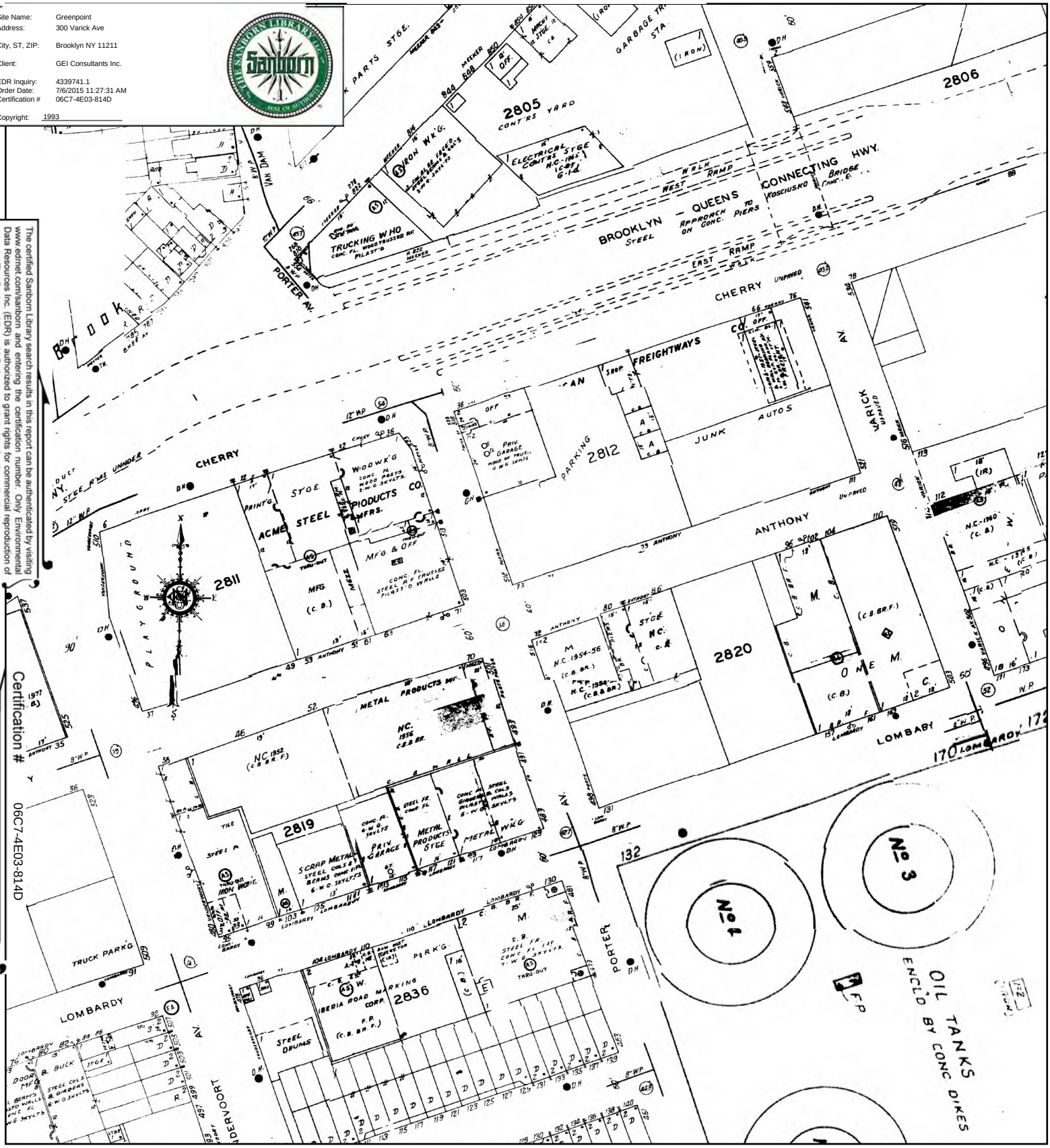

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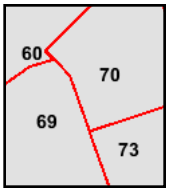

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Volume 9, Sheet 69
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1992 Certified Sanborn Map

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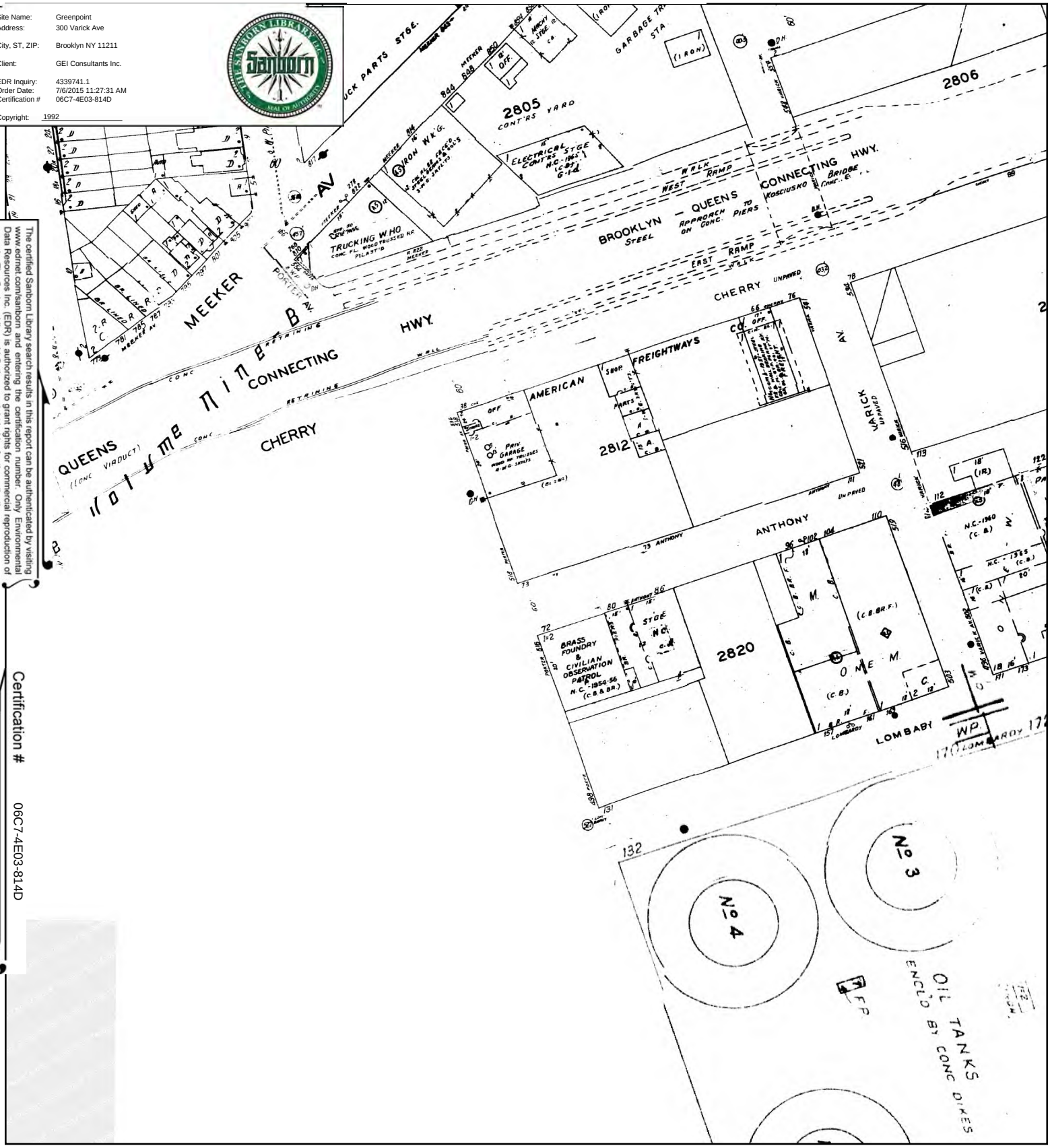

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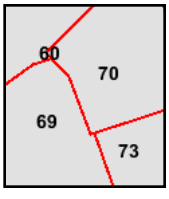

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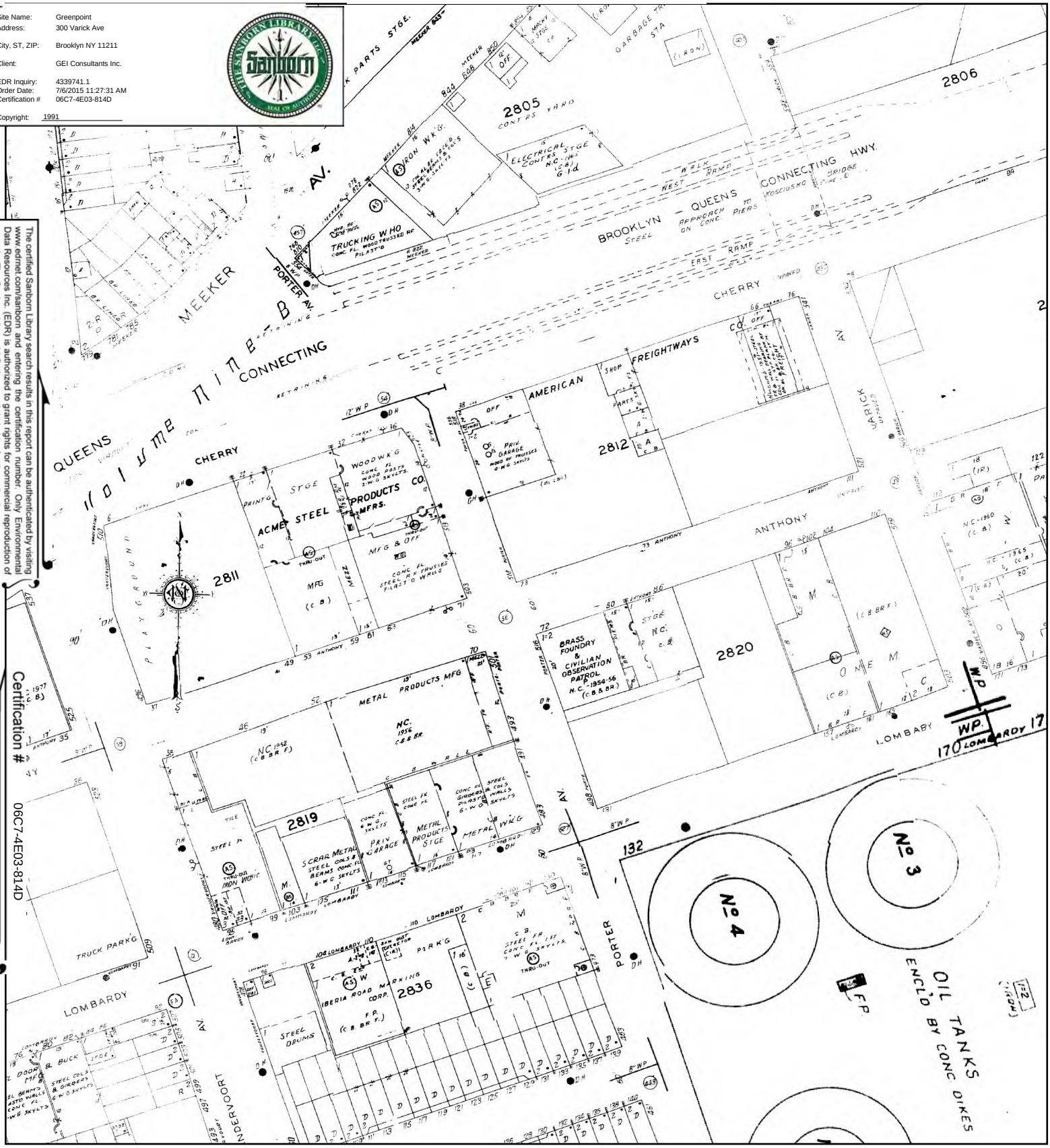

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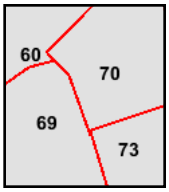

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Volume 9, Sheet 73

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1990 Certified Sanborn Map

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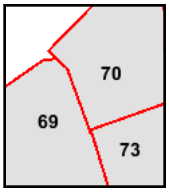

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Volume 9, Sheet 70
Volume 9, Sheet 73

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1989 Certified Sanborn Map

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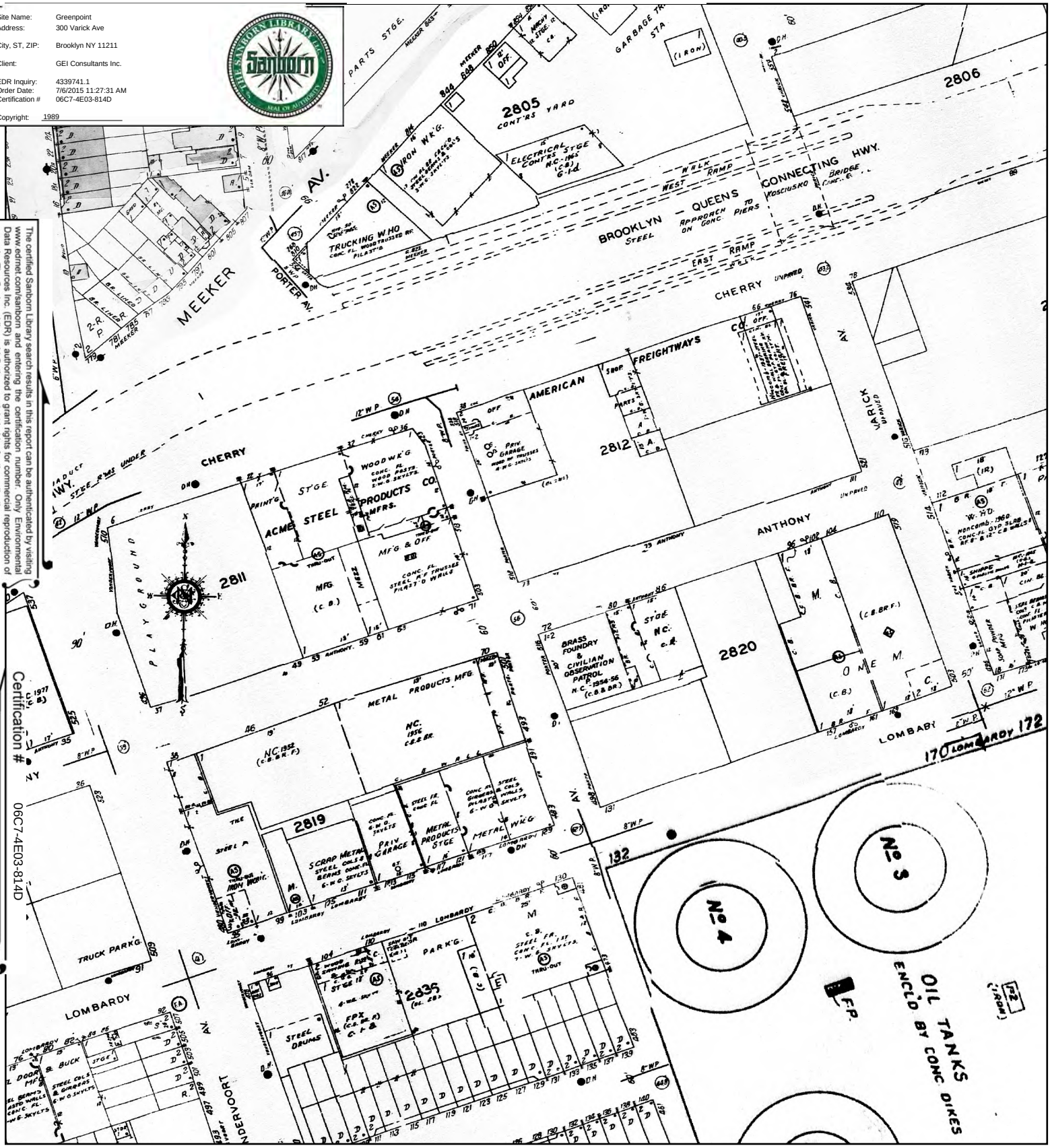

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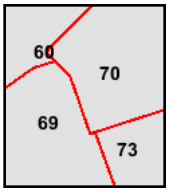

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N

1988 Certified Sanborn Map

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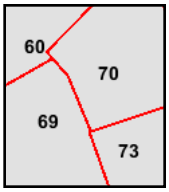

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Volume 9, Sheet 73

1987 Certified Sanborn Map

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Certification #: 06C7-4E03-814D
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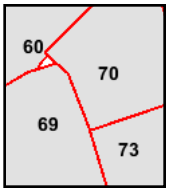

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1986 Certified Sanborn Map

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Certification #: 06C7-4E03-814D
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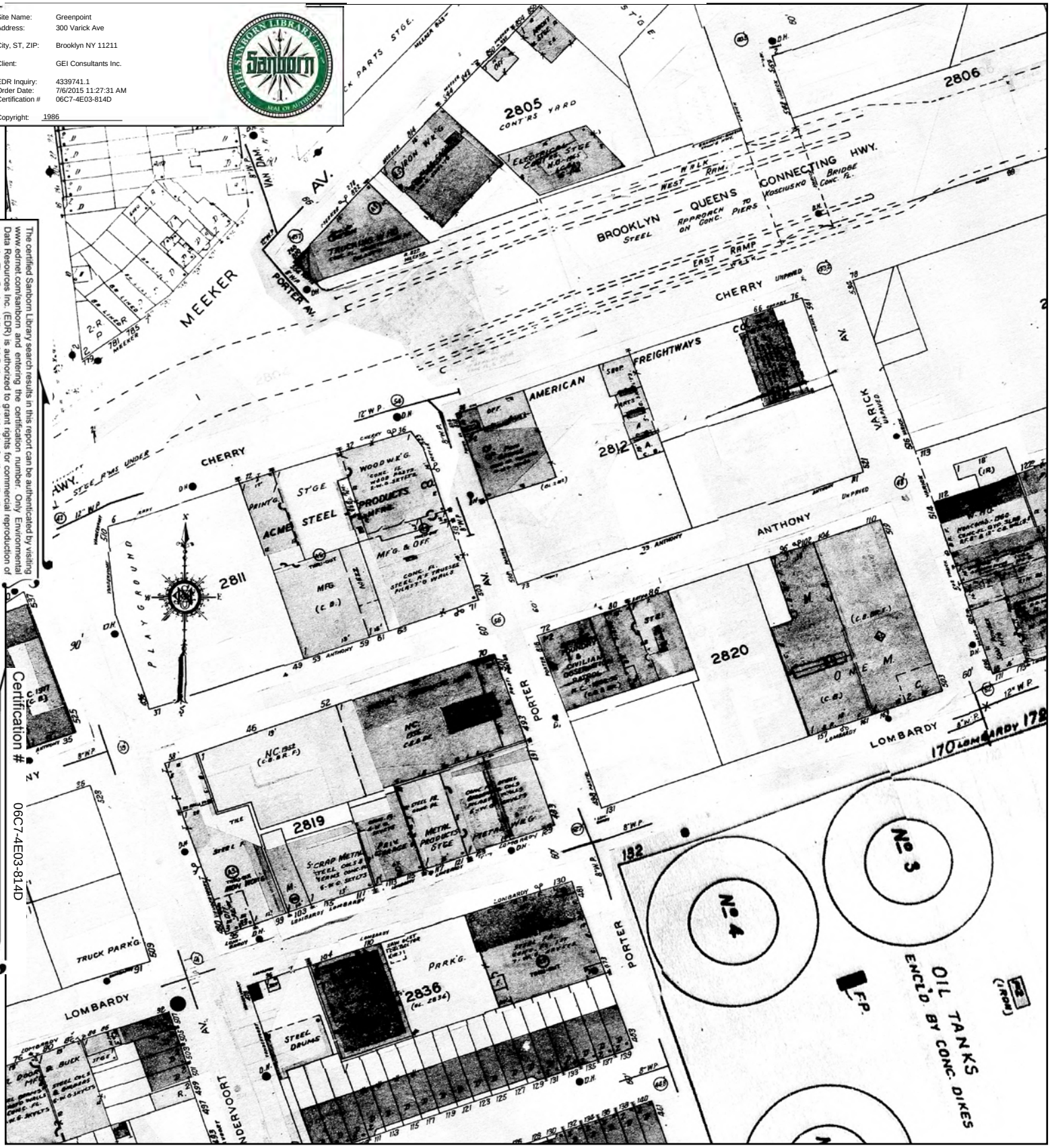

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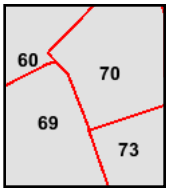

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Volume 9, Sheet 73

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N

1983 Certified Sanborn Map

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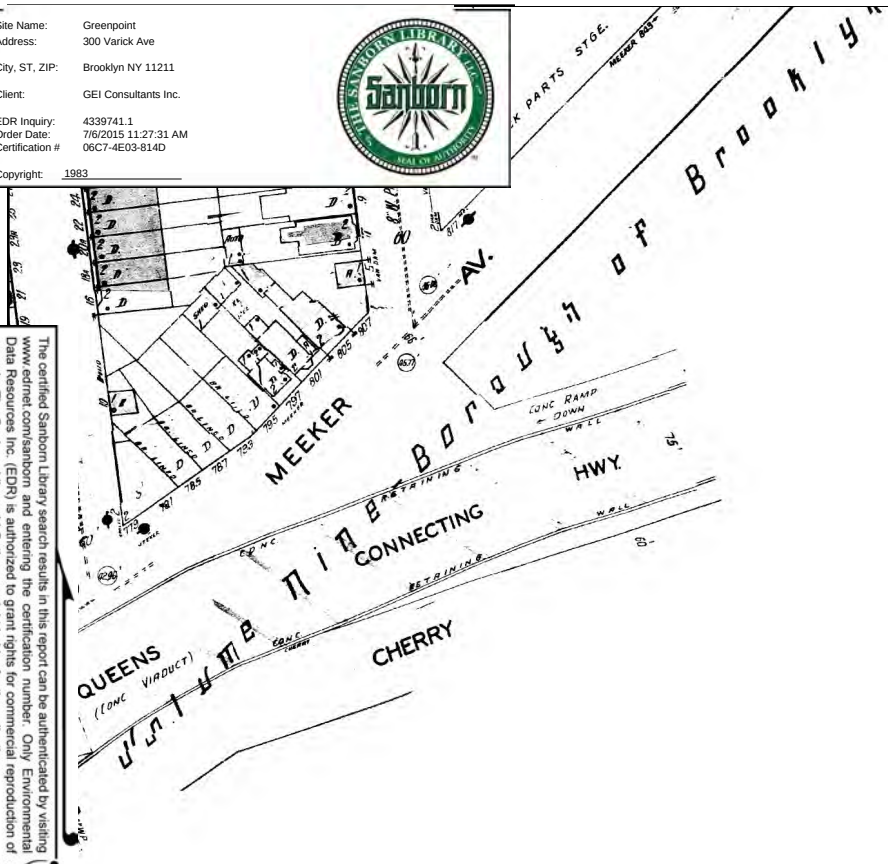

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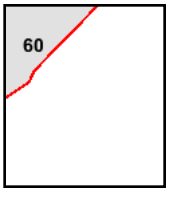

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N

1982 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1982

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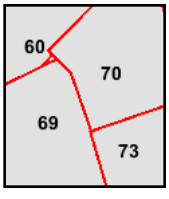

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Volume 9, Sheet 70
Volume 9, Sheet 73

1981 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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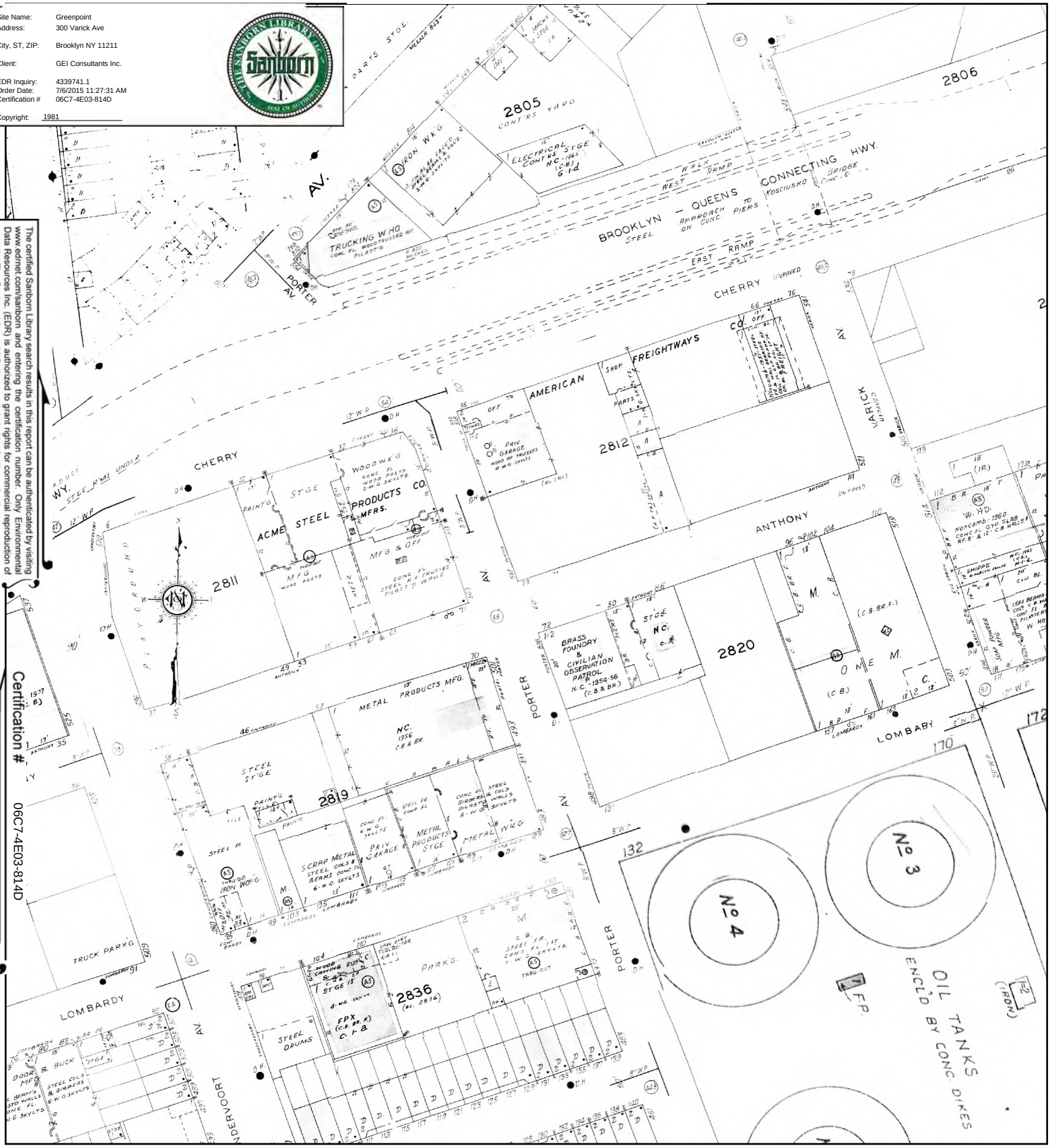
Certification # 06C7-4E03-814D



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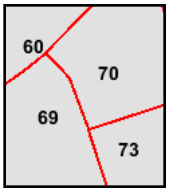

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Volume 9, Sheet 69
Volume 9, Sheet 70
Volume 4, Sheet 60

0 Feet 165 330 660

N

1980 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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Certification # 06C7-4E03-814D

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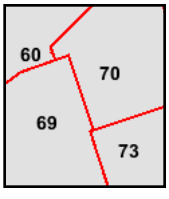

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Volume 9, Sheet 70
Volume 9, Sheet 73

1979 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1979

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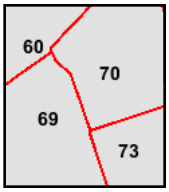

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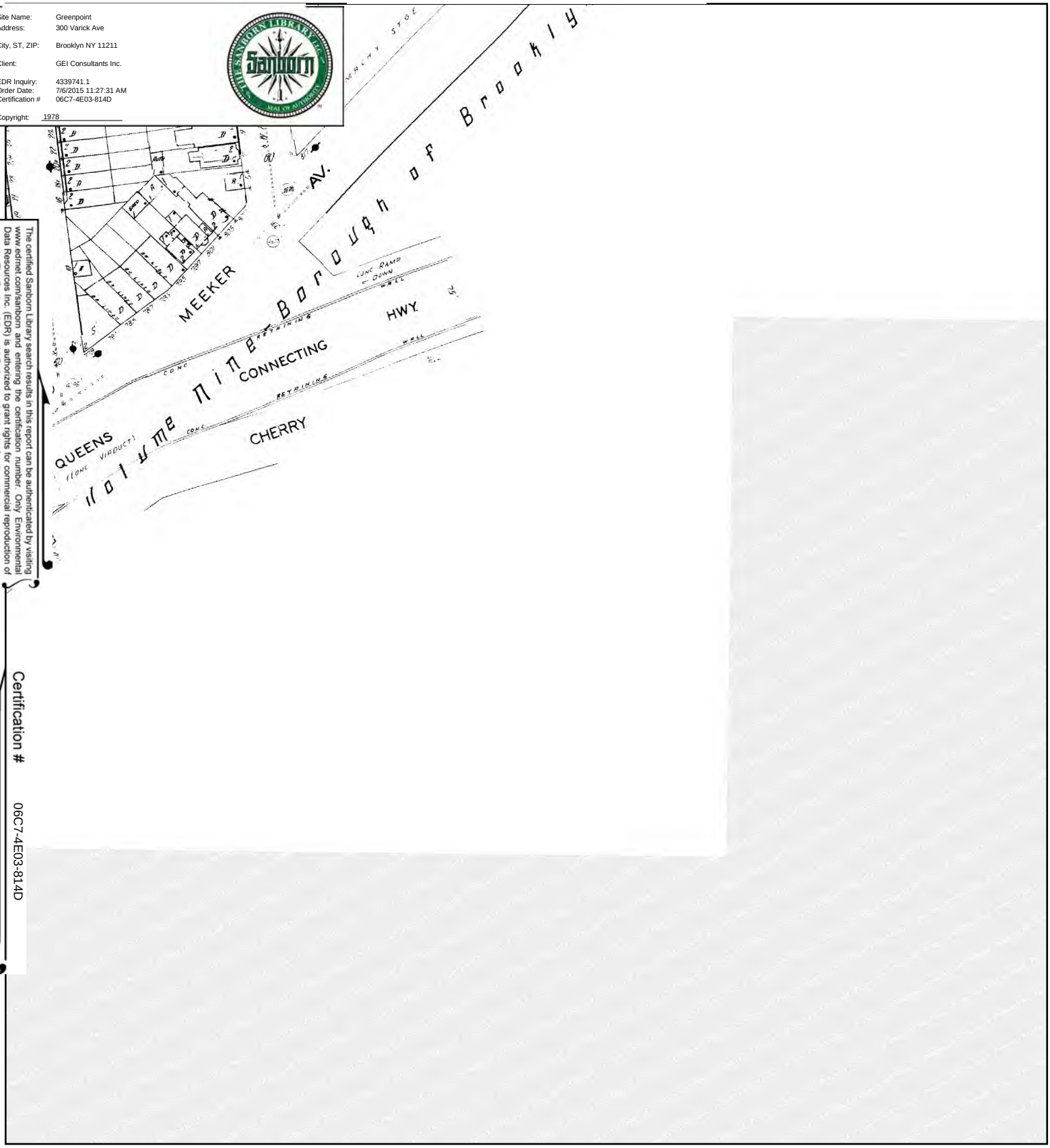
1978 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1978



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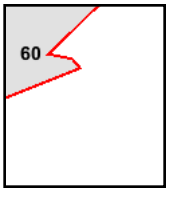

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0 Feet 165 330 660

N

1977 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1977

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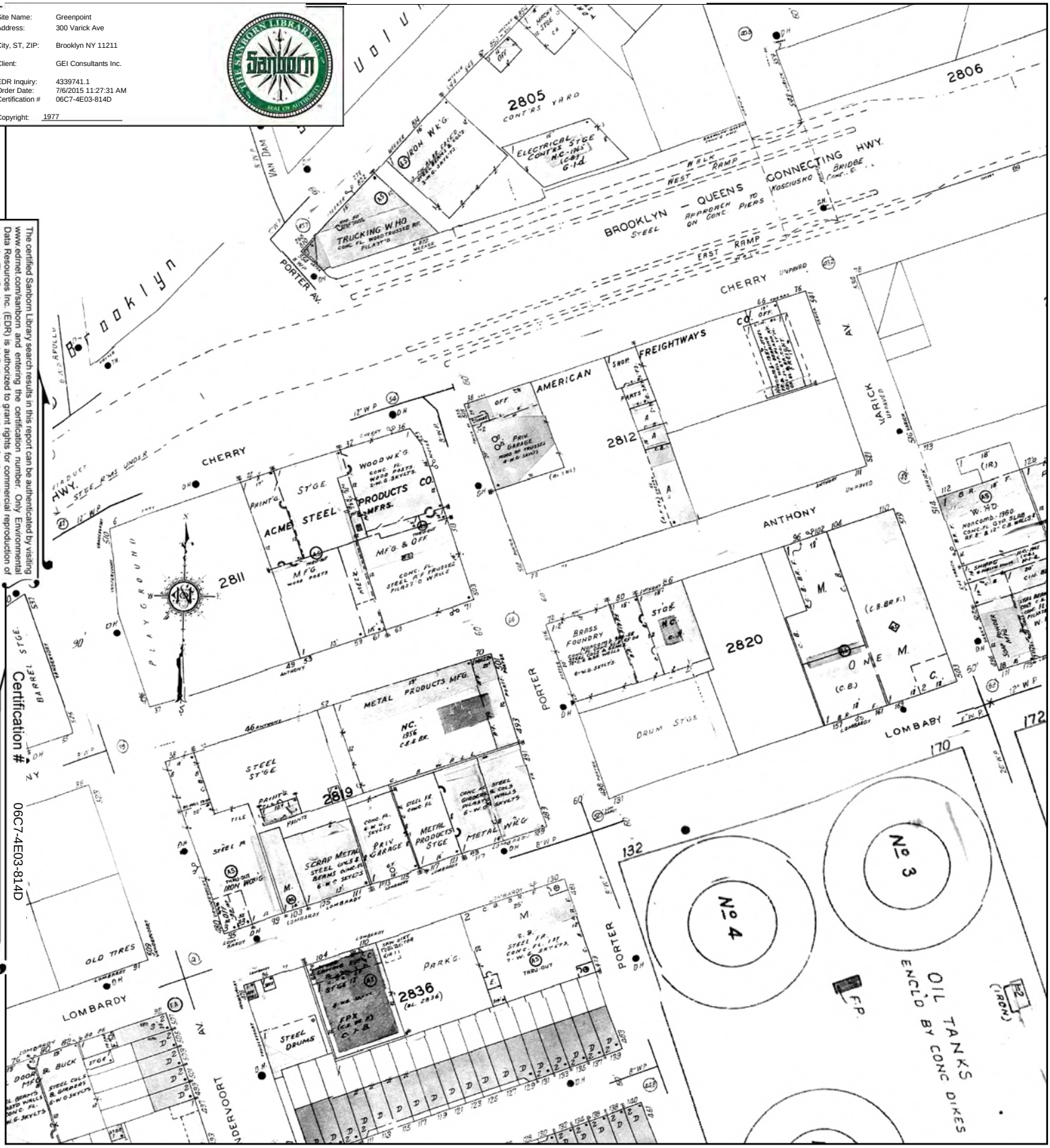
Certification # 06C7-4E03-814D



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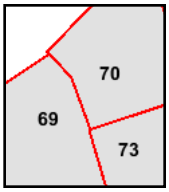

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N

1968 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1968

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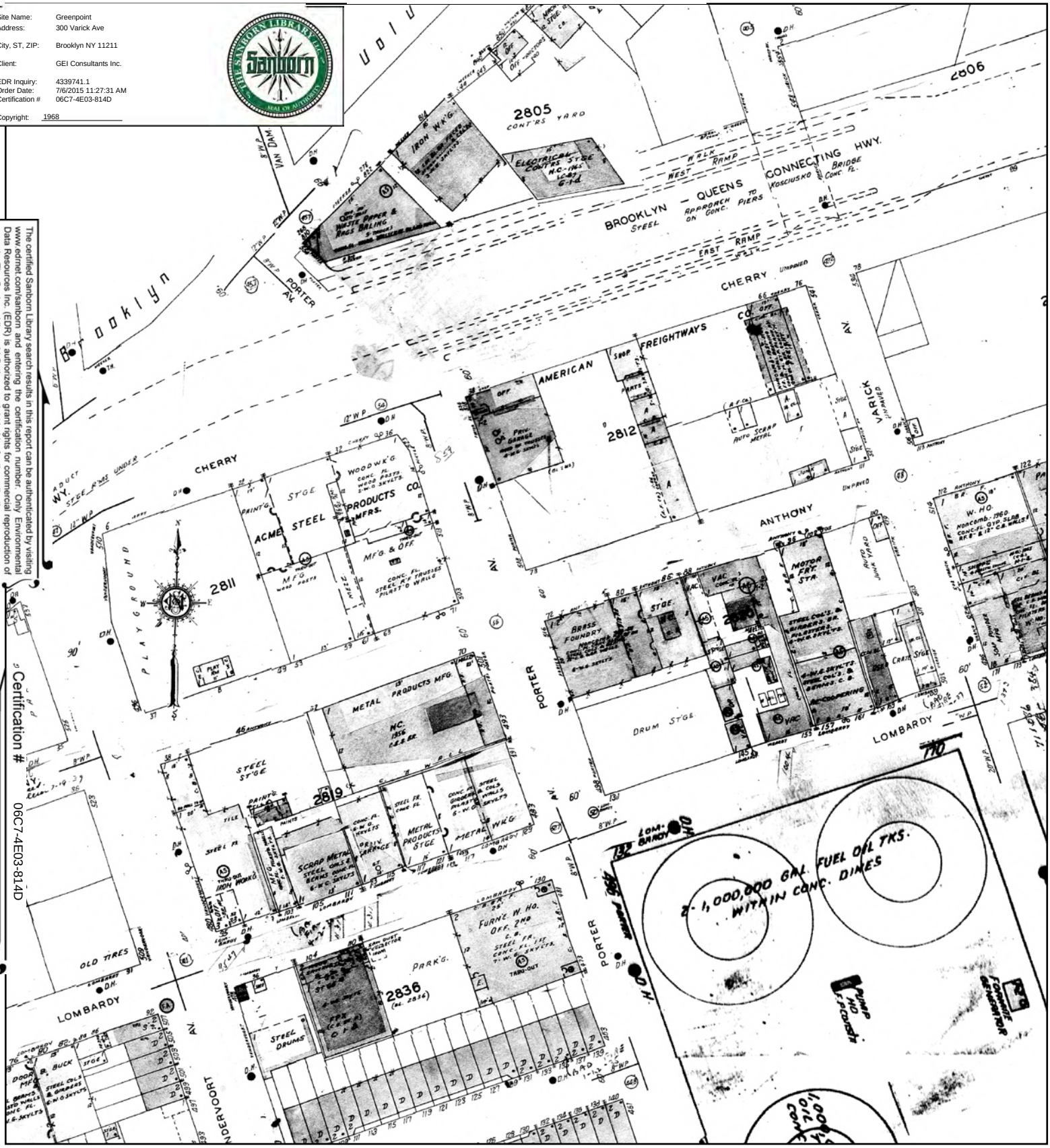
Certification # 06C7-4E03-814D



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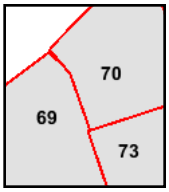

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N

1965 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1965

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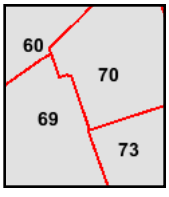

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Volume 9, Sheet 70
Volume 9, Sheet 73

N

1951 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1951

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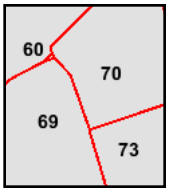

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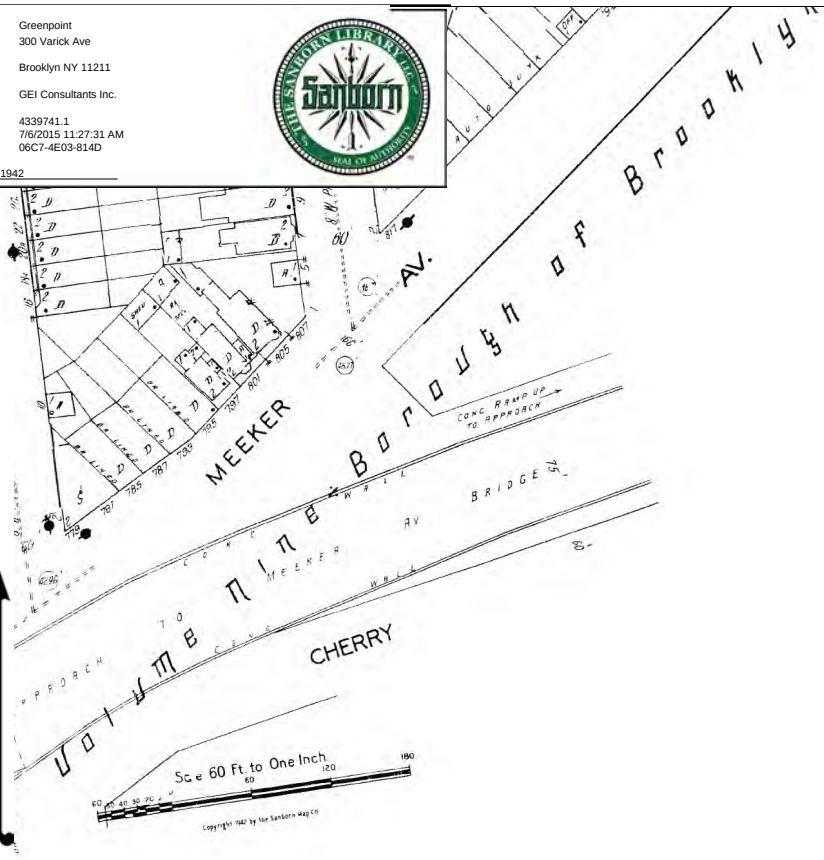
Volume 9, Sheet 73

N

1942 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1942



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Certification # 06C7-4E03-814D

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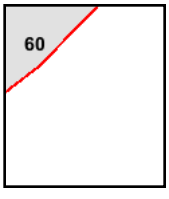

Volume 4, Sheet 60

N

1933 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave

City, ST, ZIP: Brooklyn NY 11211

Client: GEI Consultants Inc.

EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D

Copyright: 1933

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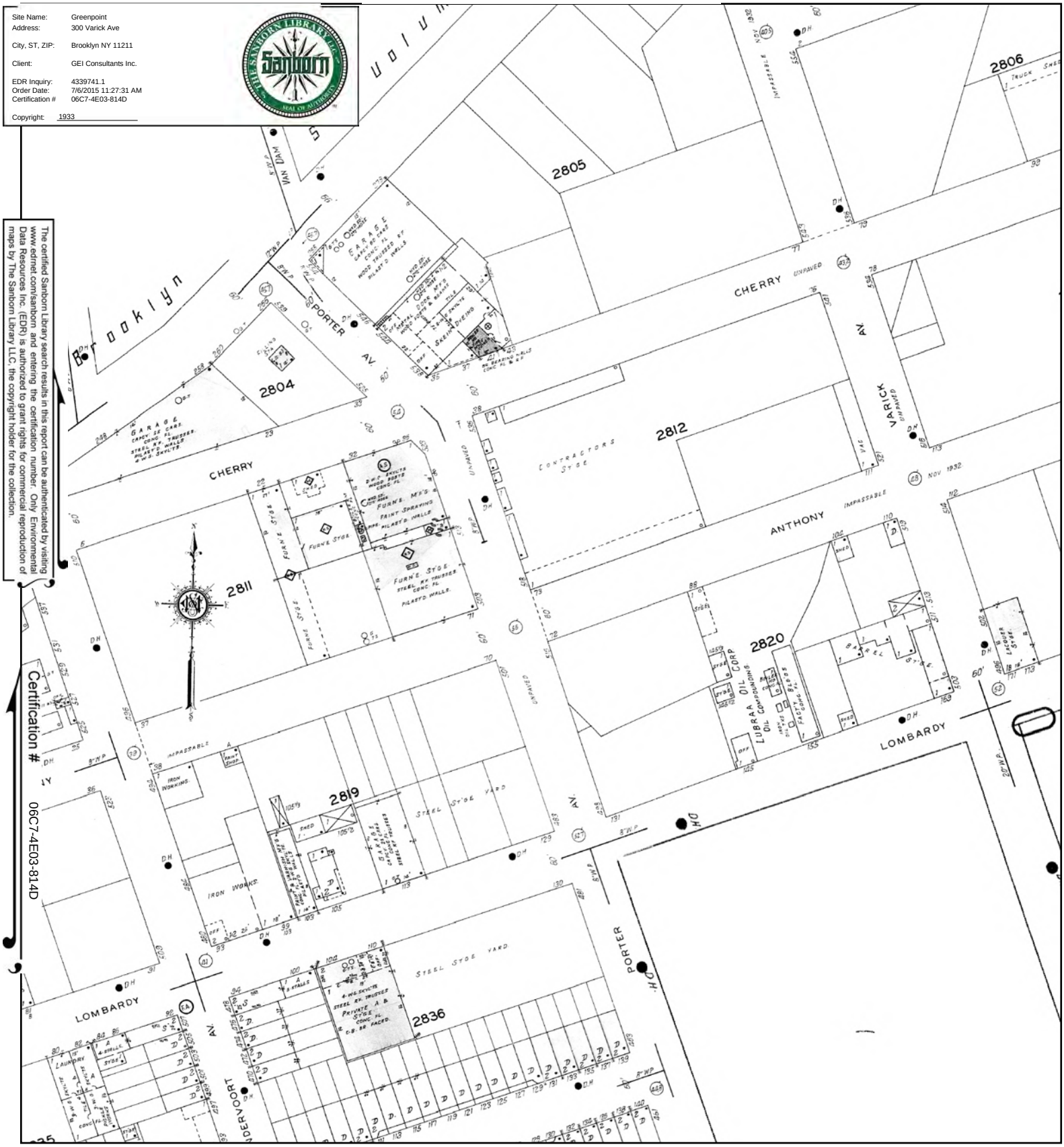

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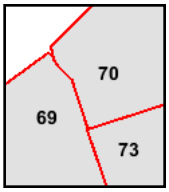

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N

1916 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1916



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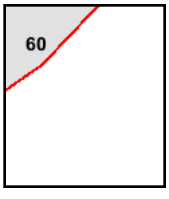

Volume 4, Sheet 60

N

1907 Certified Sanborn Map

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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1907

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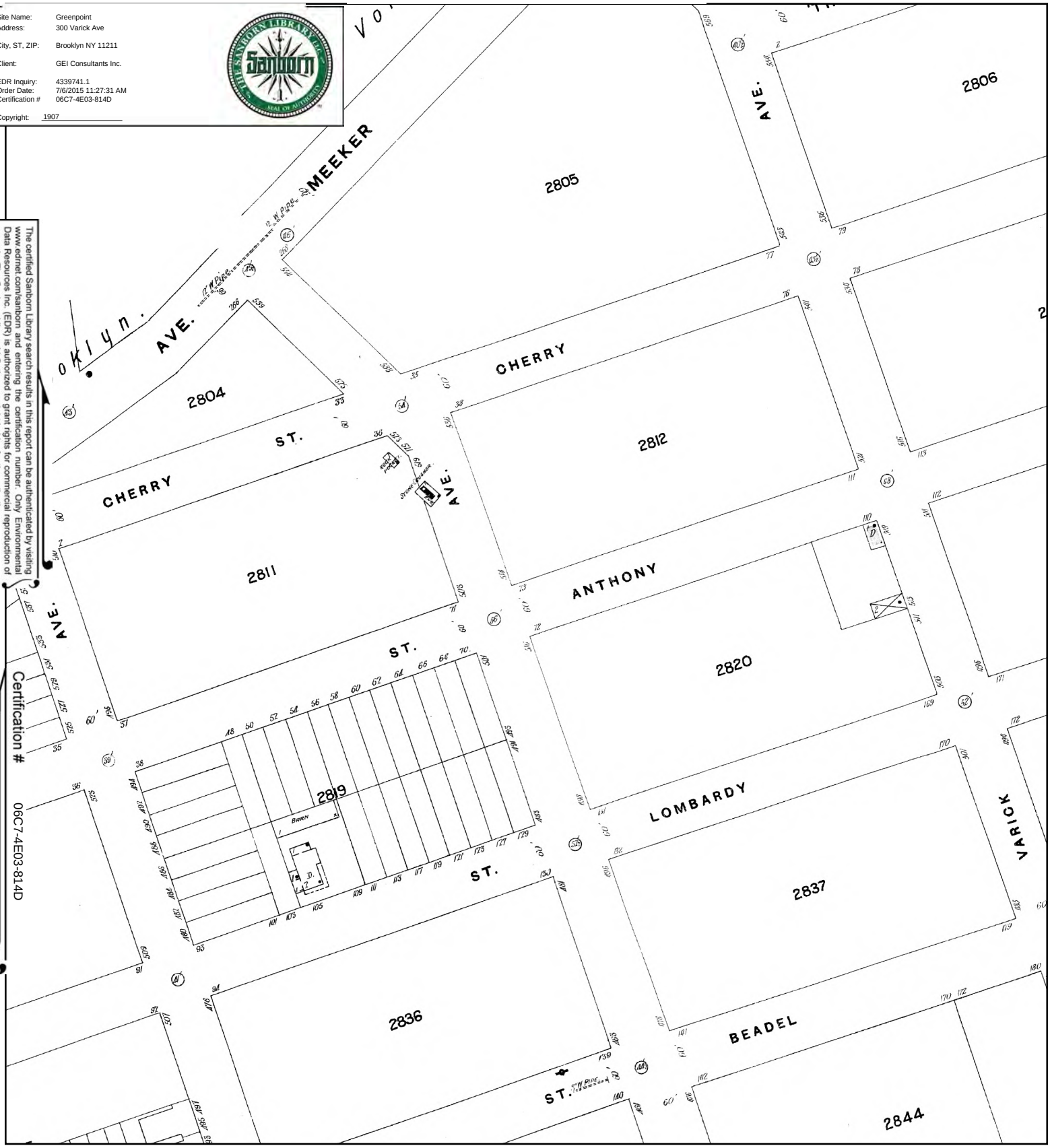

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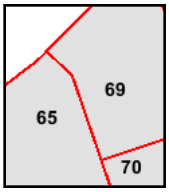

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Volume 9, Sheet 65

N

1905 Certified Sanborn Map

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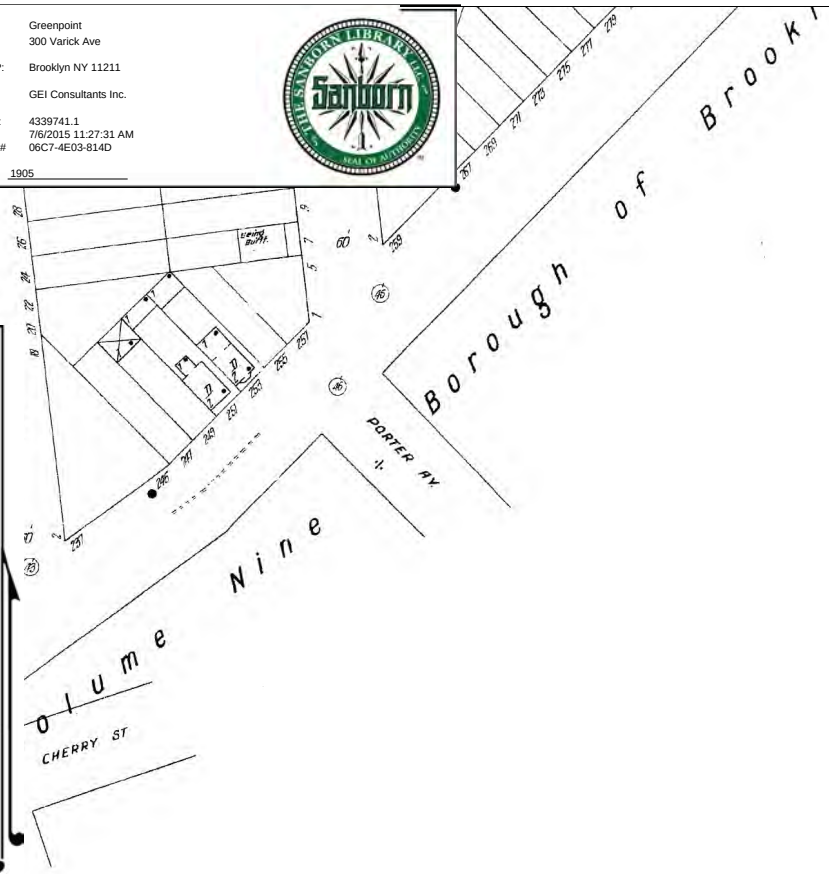
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1905



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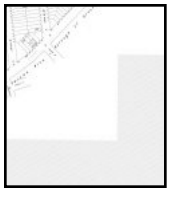

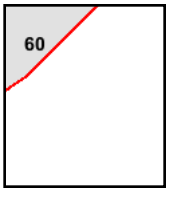

Volume 4, Sheet 60

N

1888 Certified Sanborn Map

Site Name: Greenpoint
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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1888

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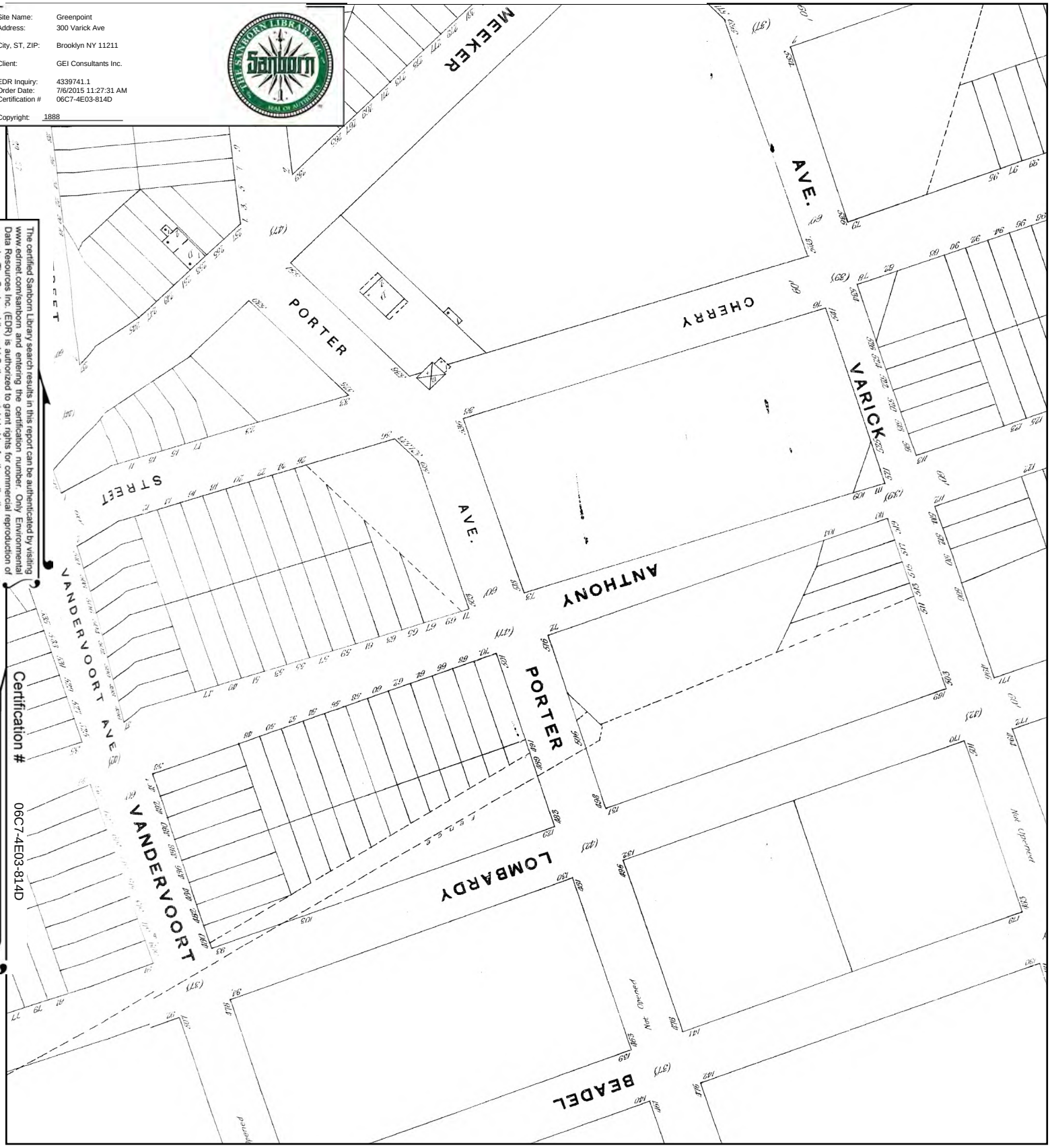
Certification # 06C7-4E03-814D



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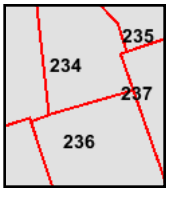

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Volume 9, Sheet 237
Volume 9, Sheet 234
Volume 9, Sheet 234

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

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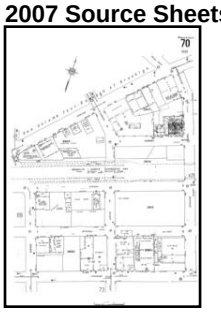

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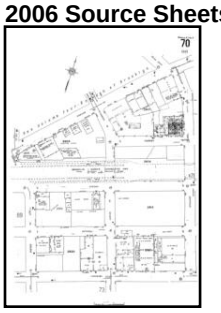

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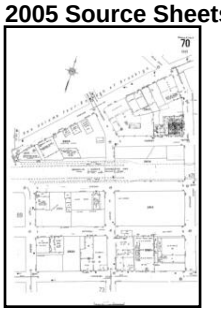

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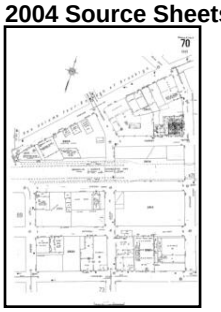

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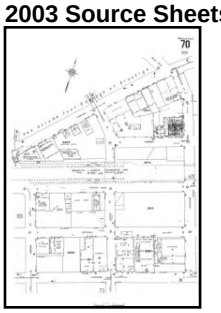

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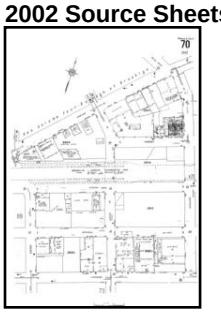

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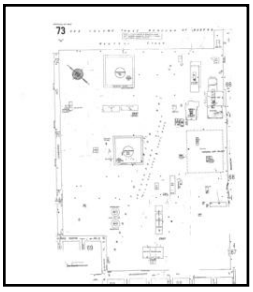

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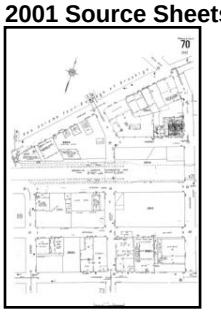

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Volume 9, Sheet 73

1995 Source Sheets



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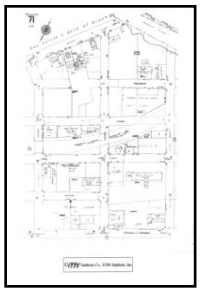
1994 Source Sheets



Volume 9, Sheet 70



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1993 Source Sheets



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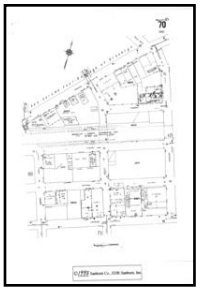

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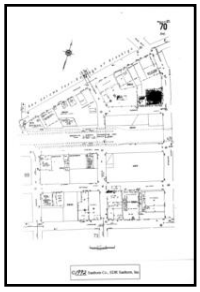

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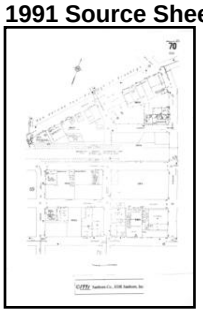

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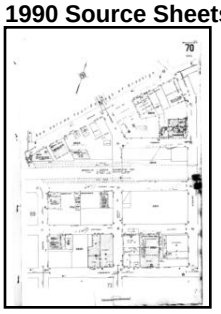

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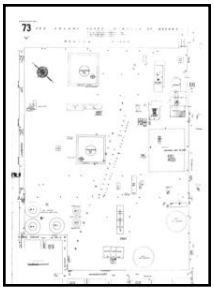

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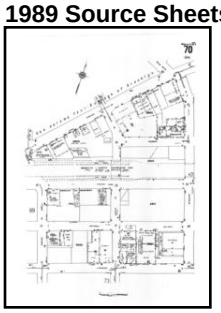

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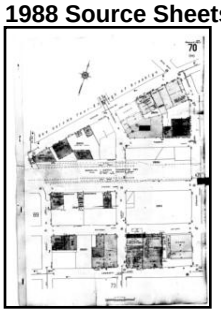

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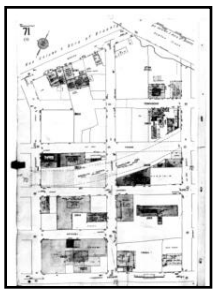

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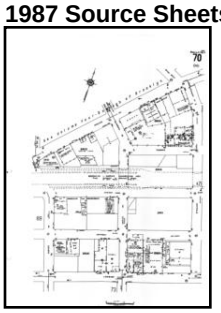

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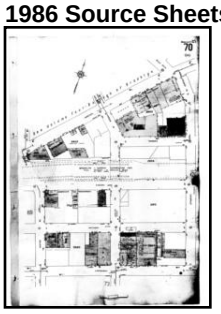

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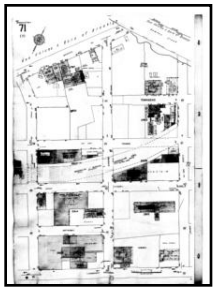

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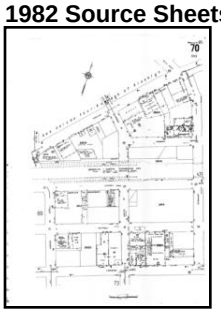

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1981 Source Sheets



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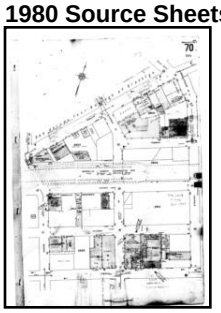
1980 Source Sheets



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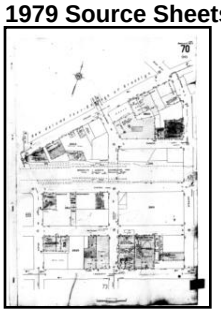

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1977 Source Sheets



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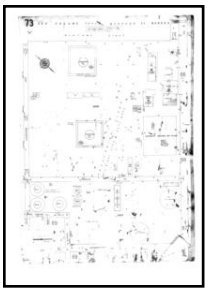

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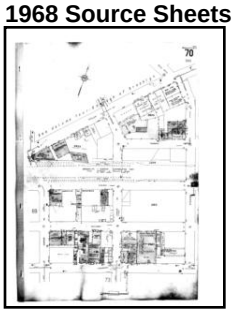

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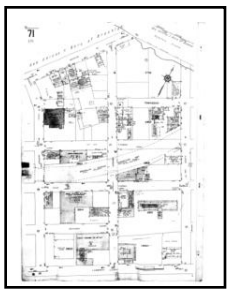

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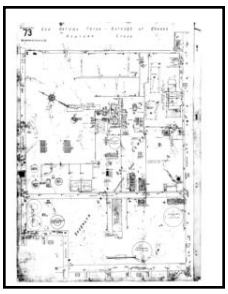

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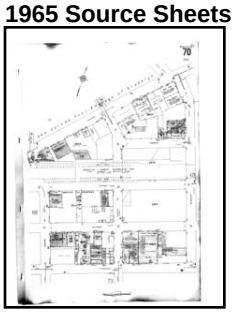

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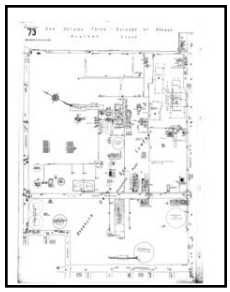

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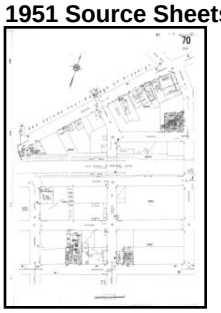

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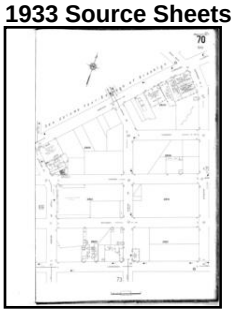

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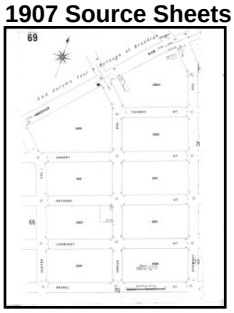

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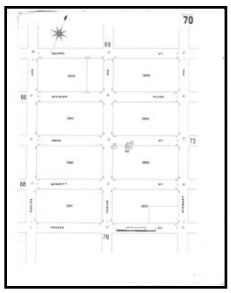

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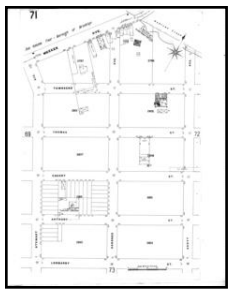

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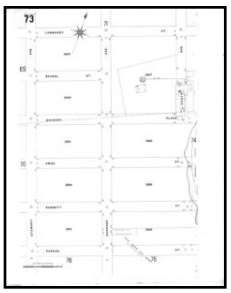

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1888 Source Sheets



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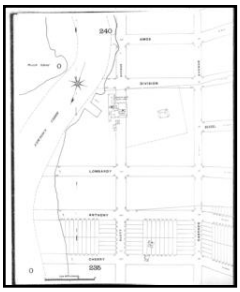

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2007 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
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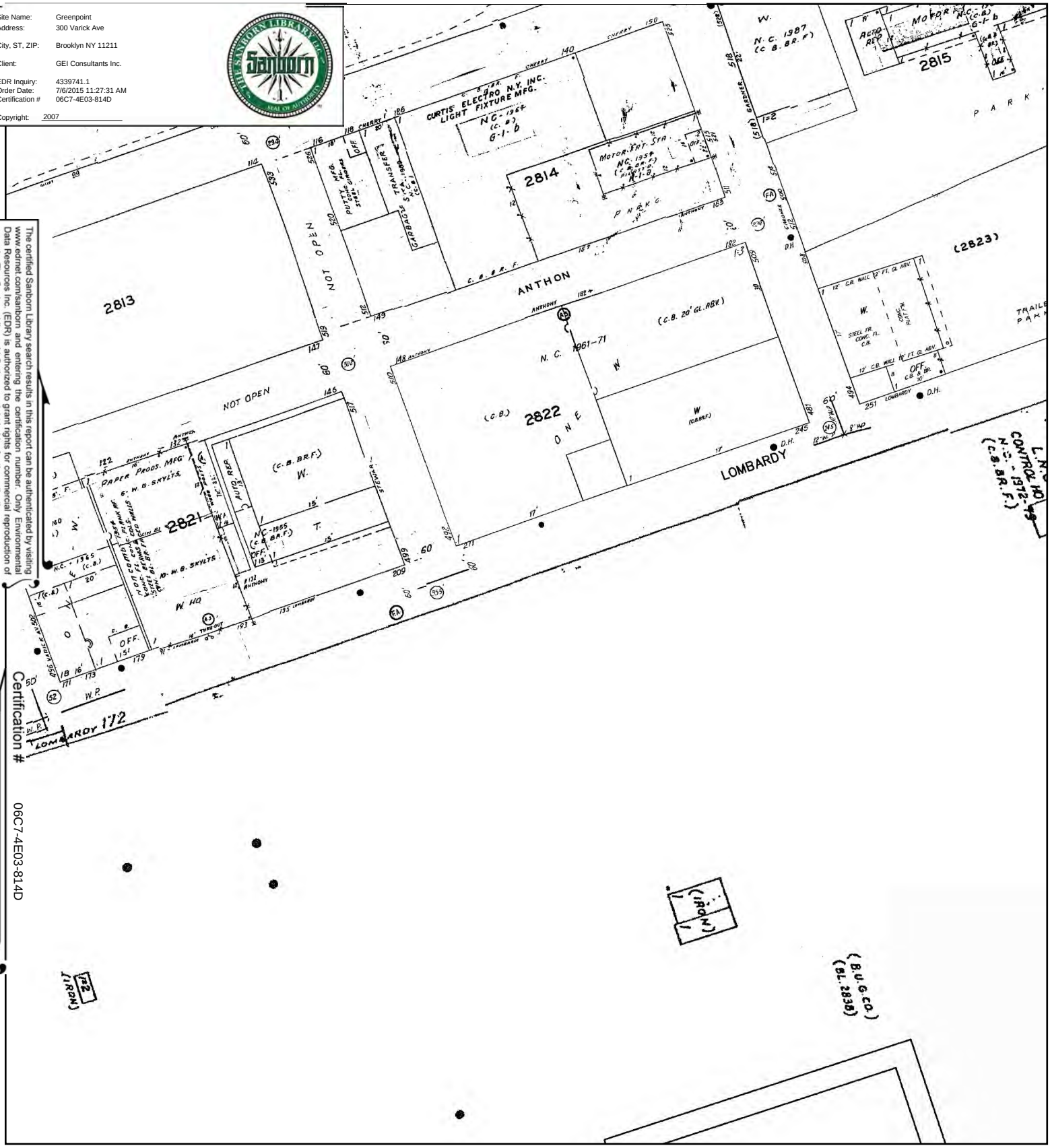

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Outlined areas indicate map sheets within the collection.

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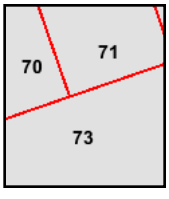

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2006 Certified Sanborn Map

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Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
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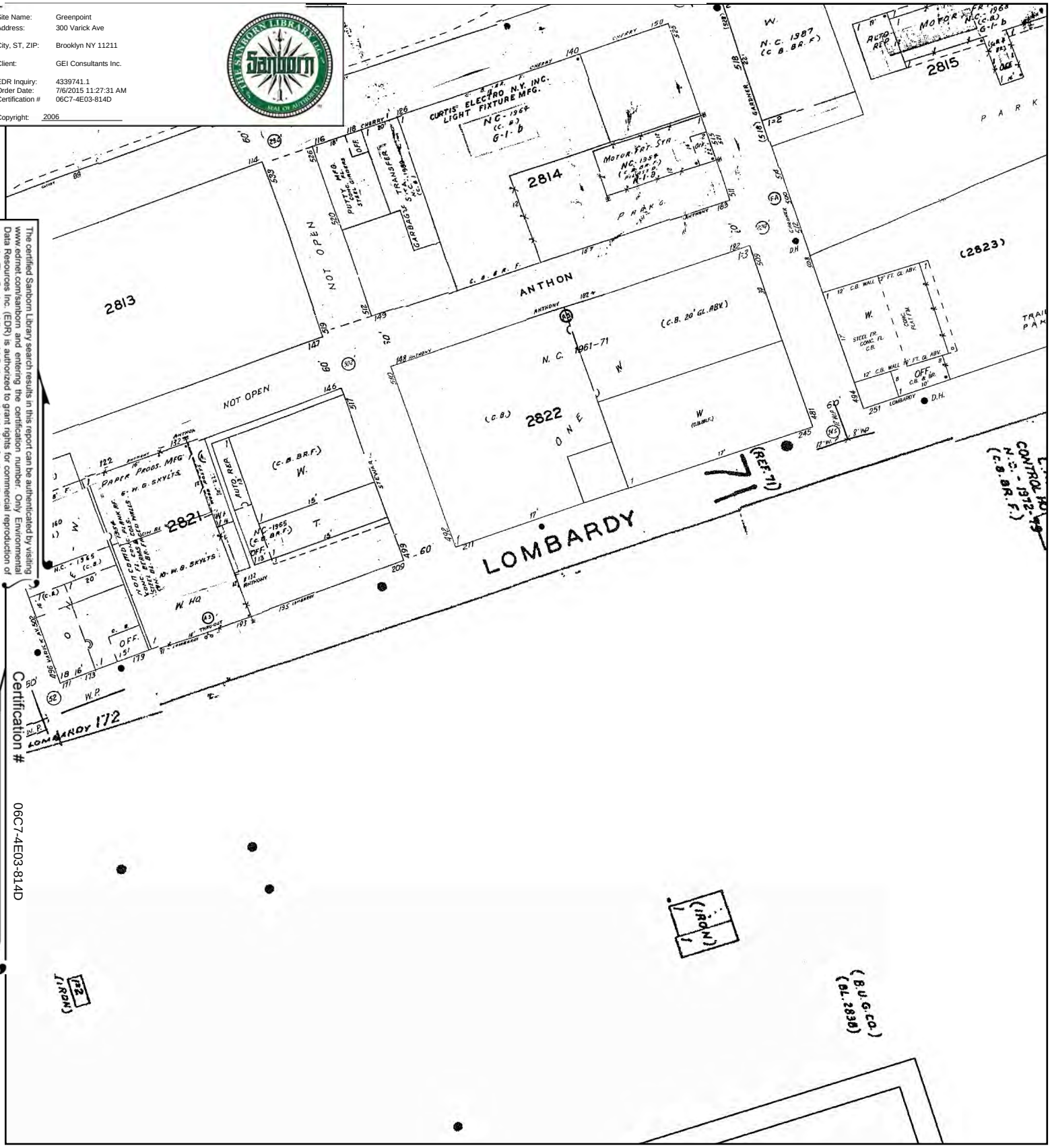

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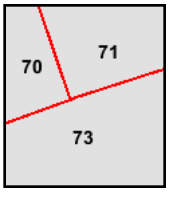

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2005 Certified Sanborn Map

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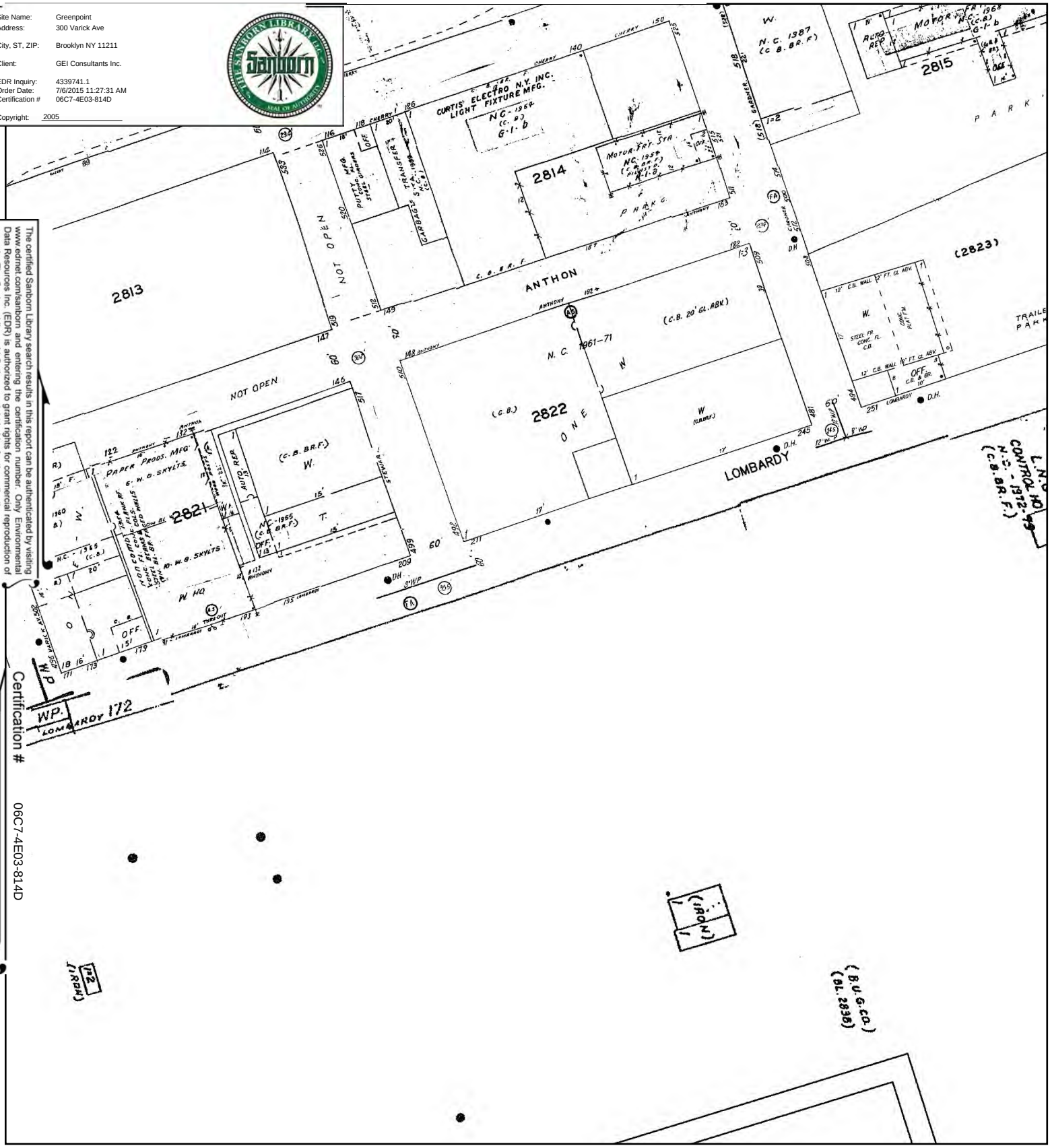

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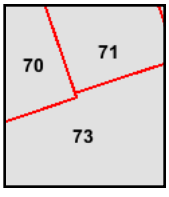

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2004 Certified Sanborn Map

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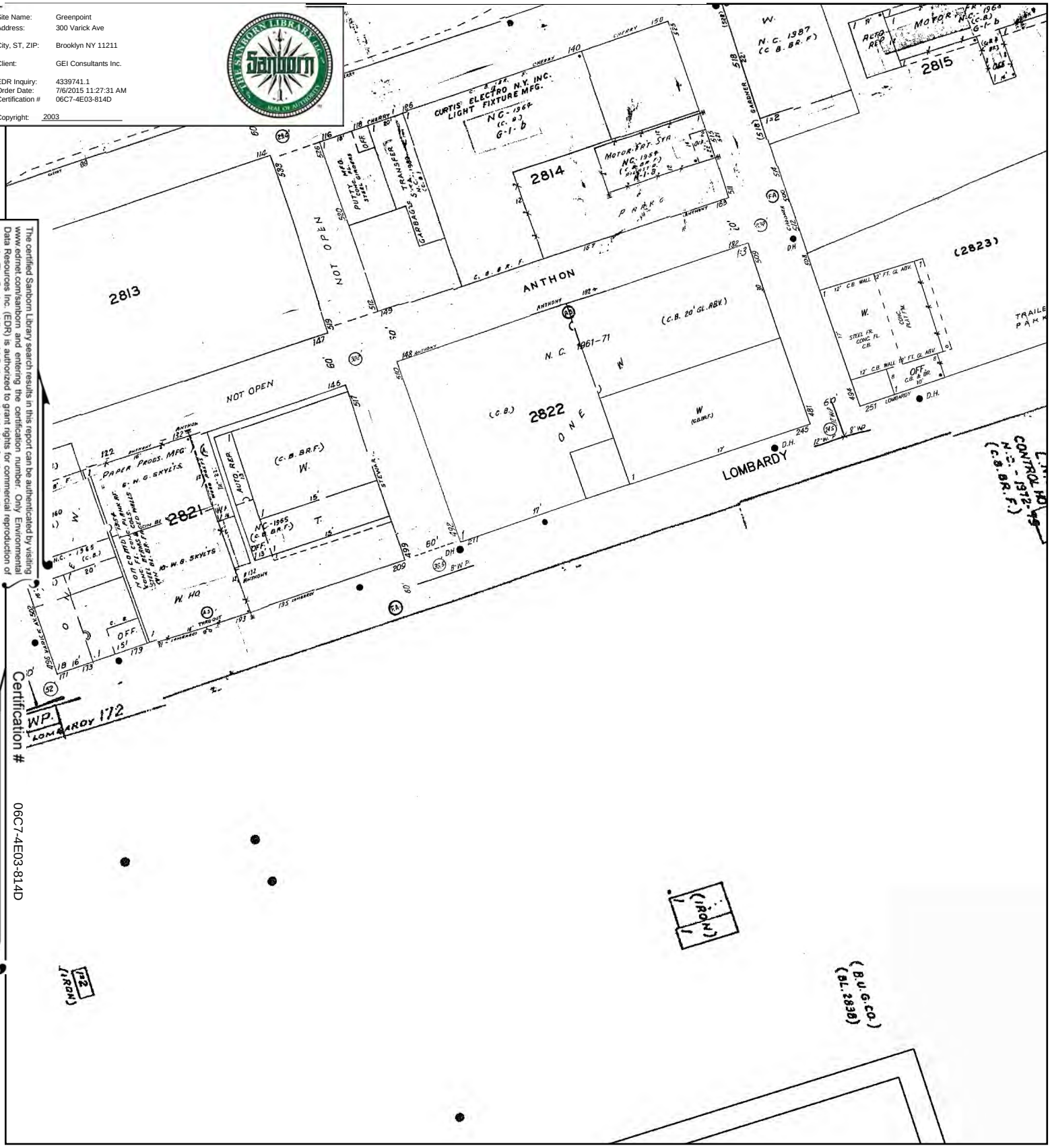

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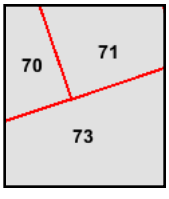

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N

2002 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
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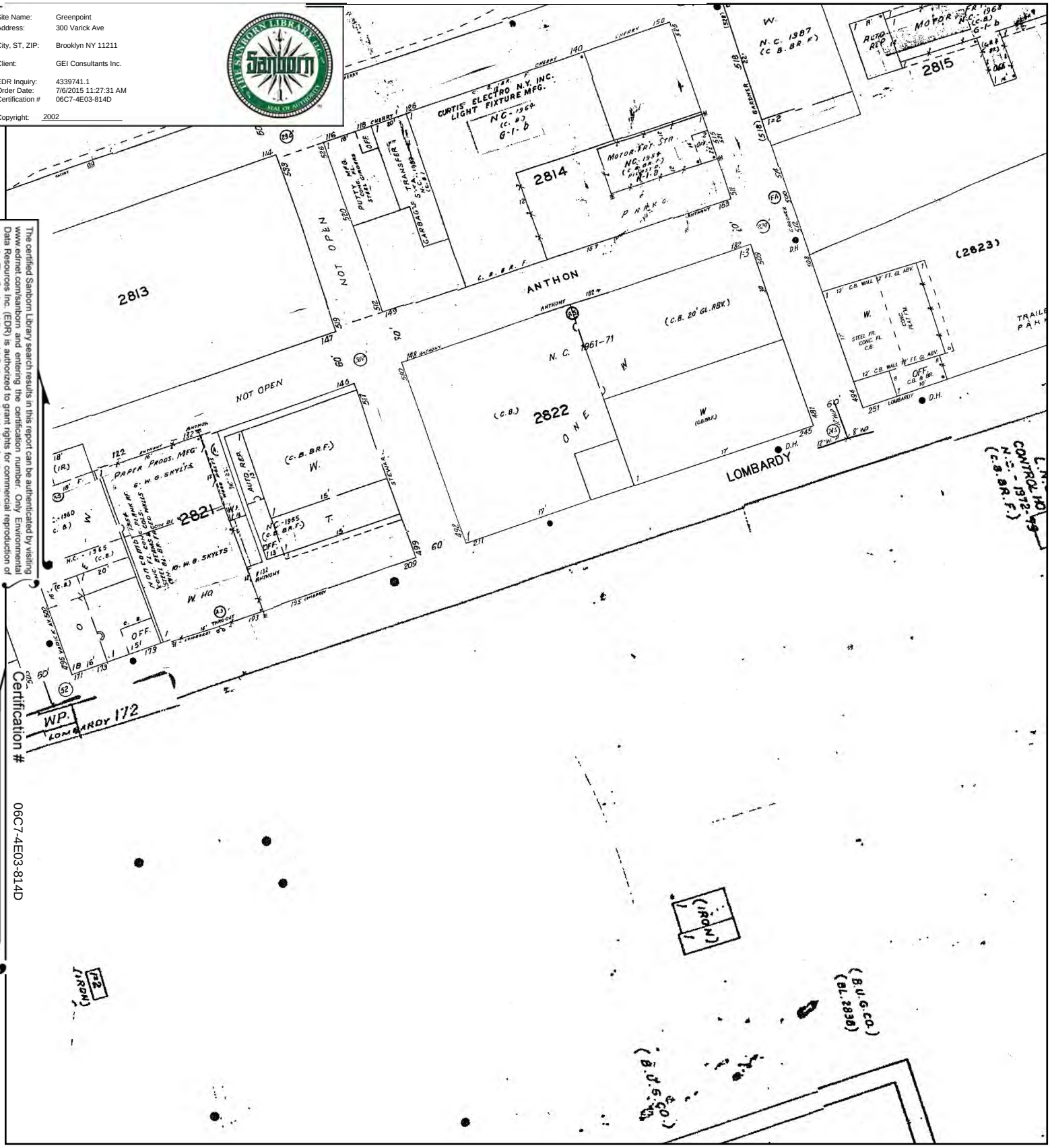

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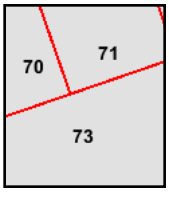

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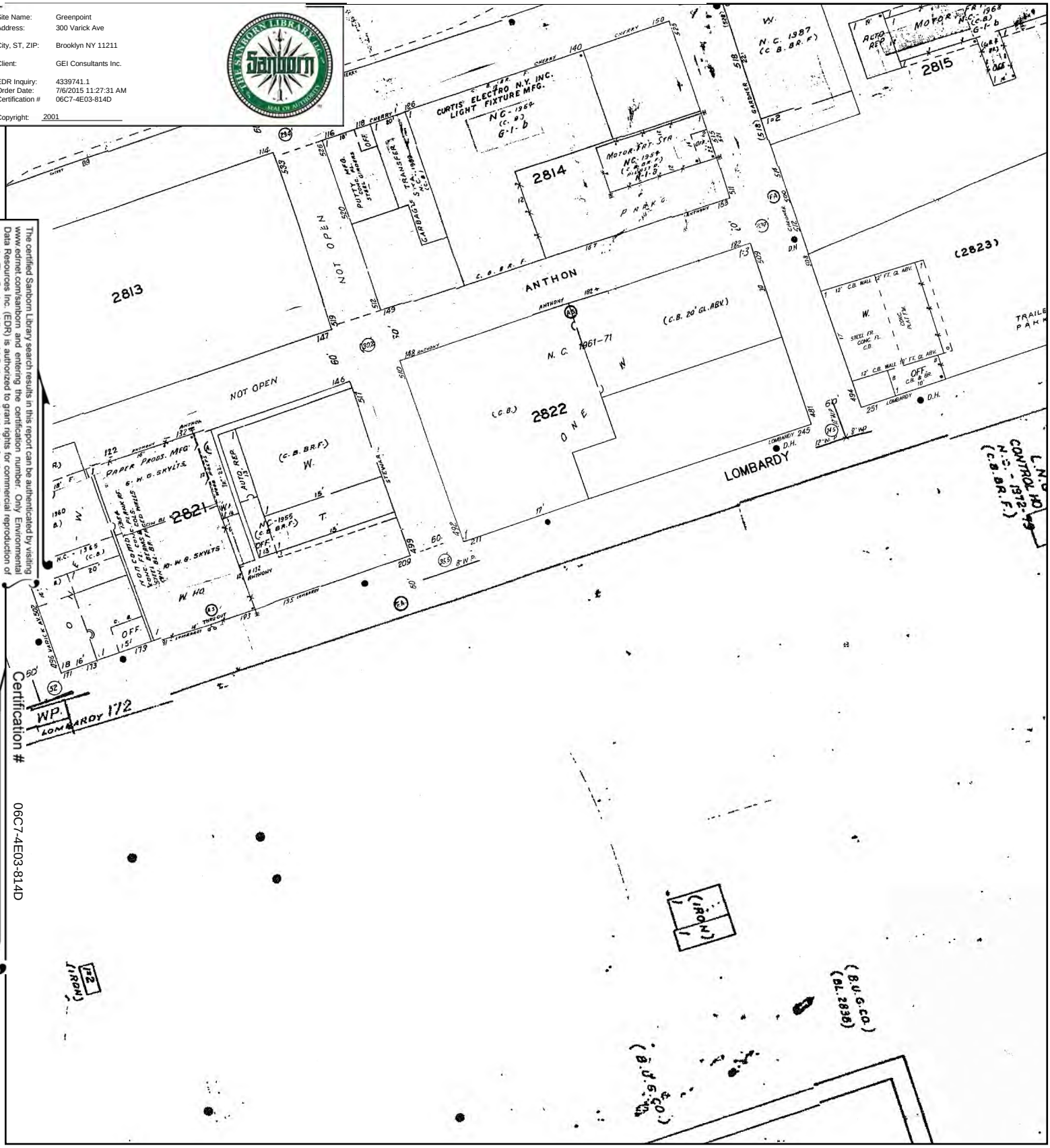

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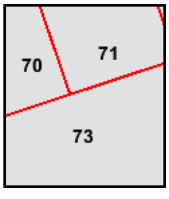

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1995 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211

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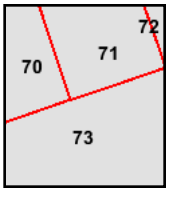

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1994 Certified Sanborn Map

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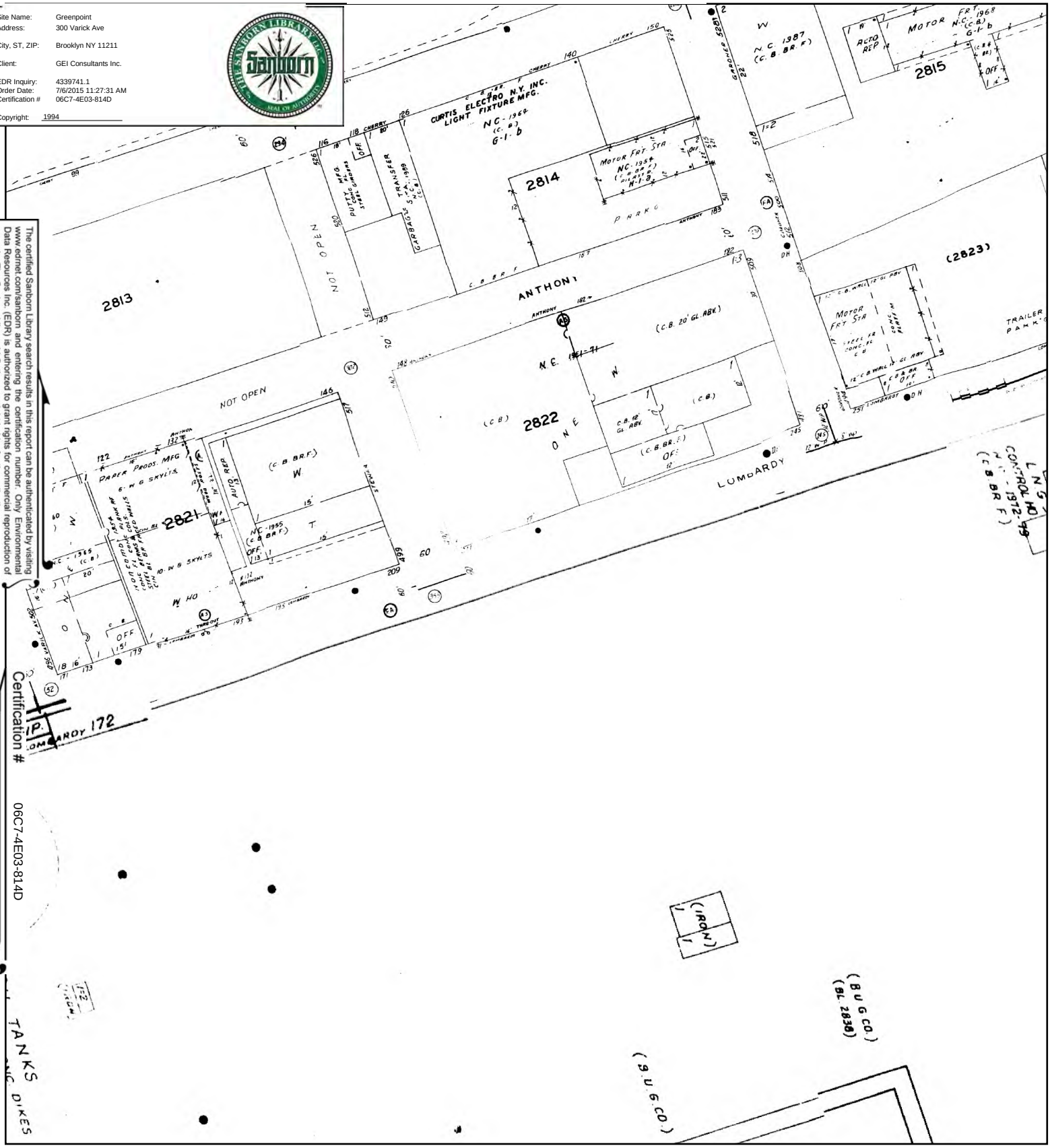

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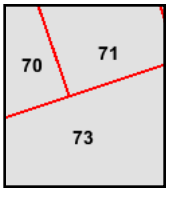

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1993 Certified Sanborn Map

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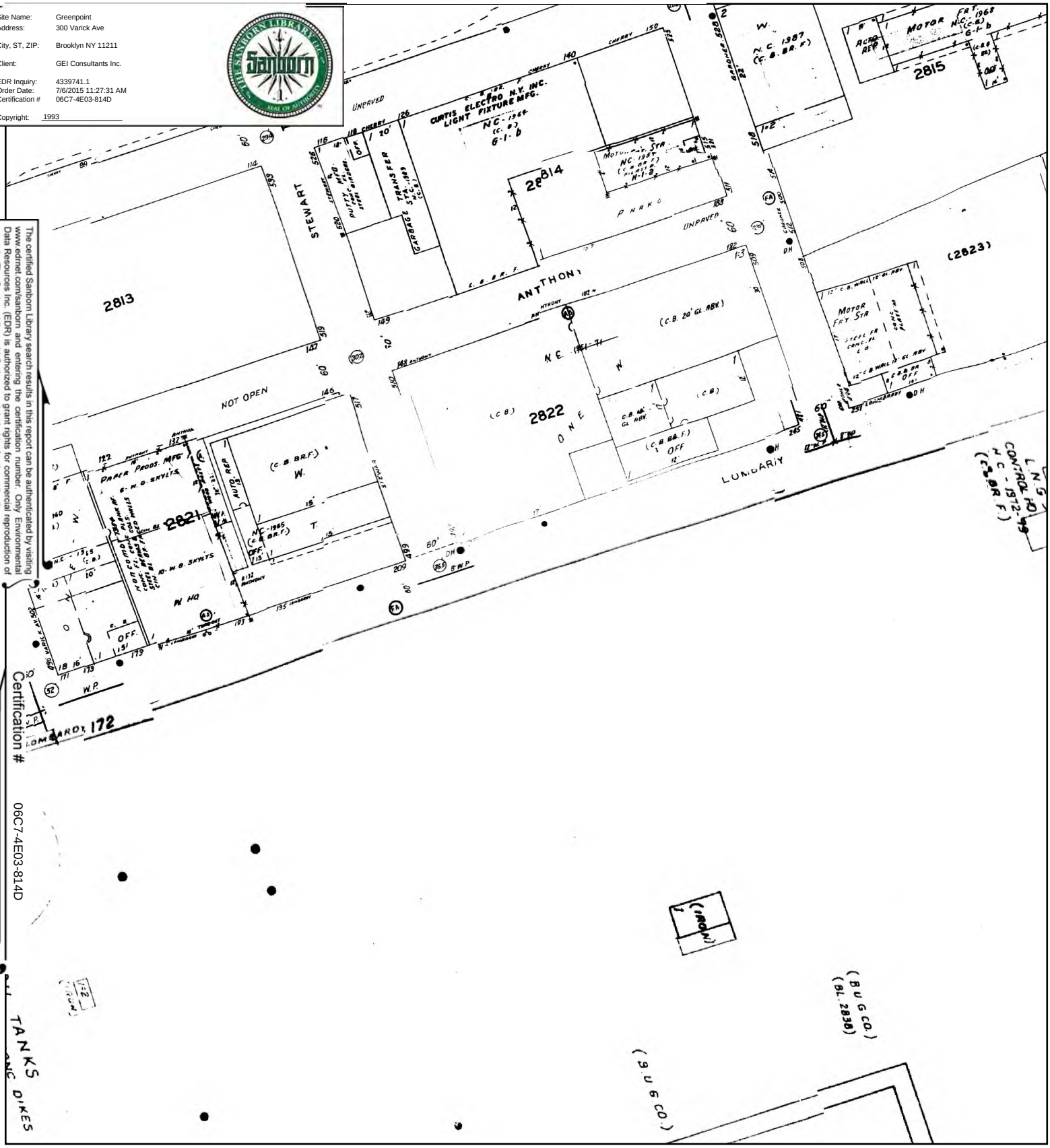

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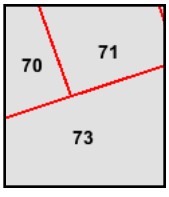

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1992 Certified Sanborn Map

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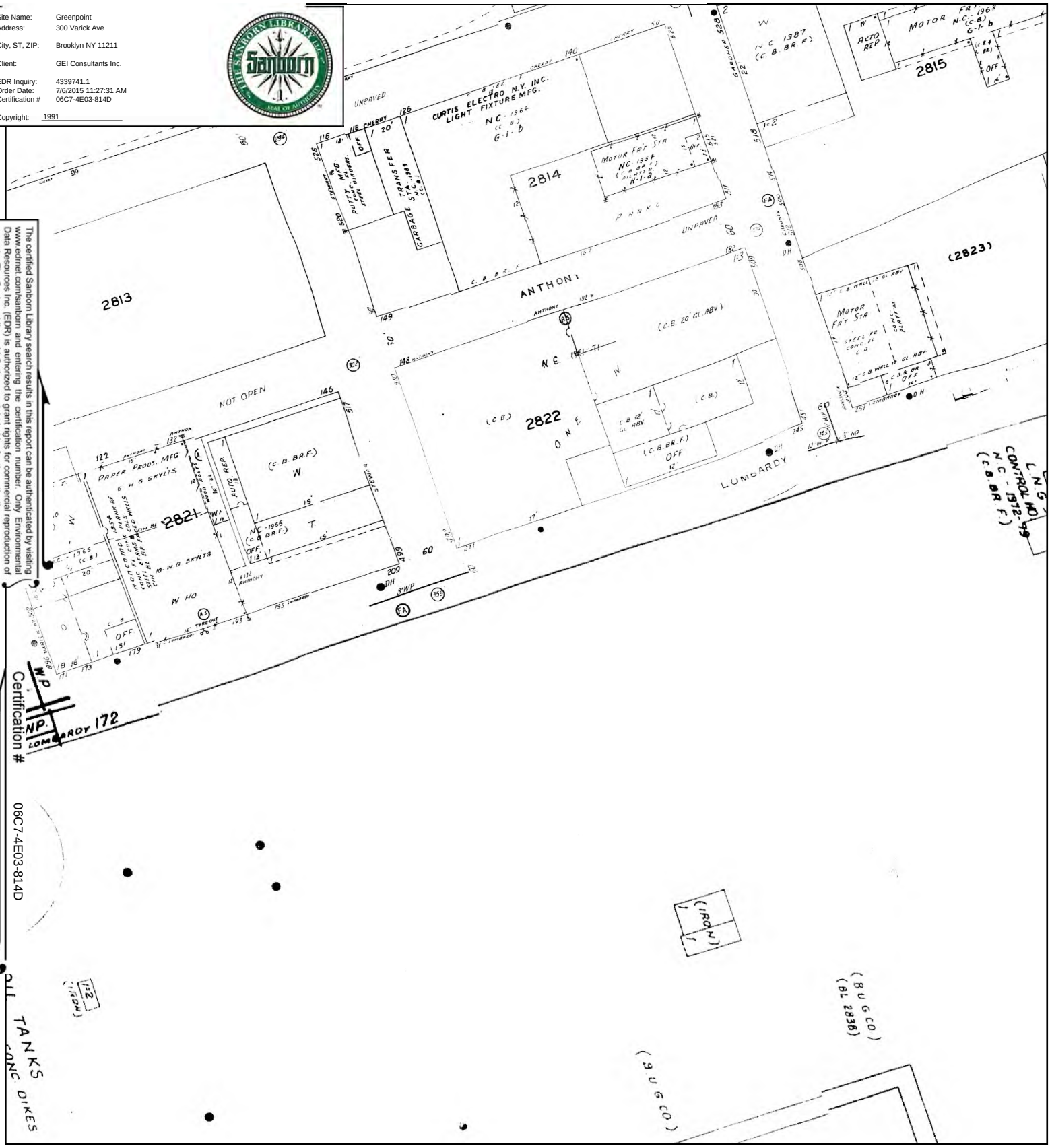

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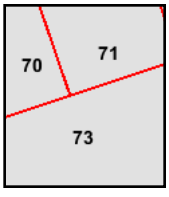

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1990 Certified Sanborn Map

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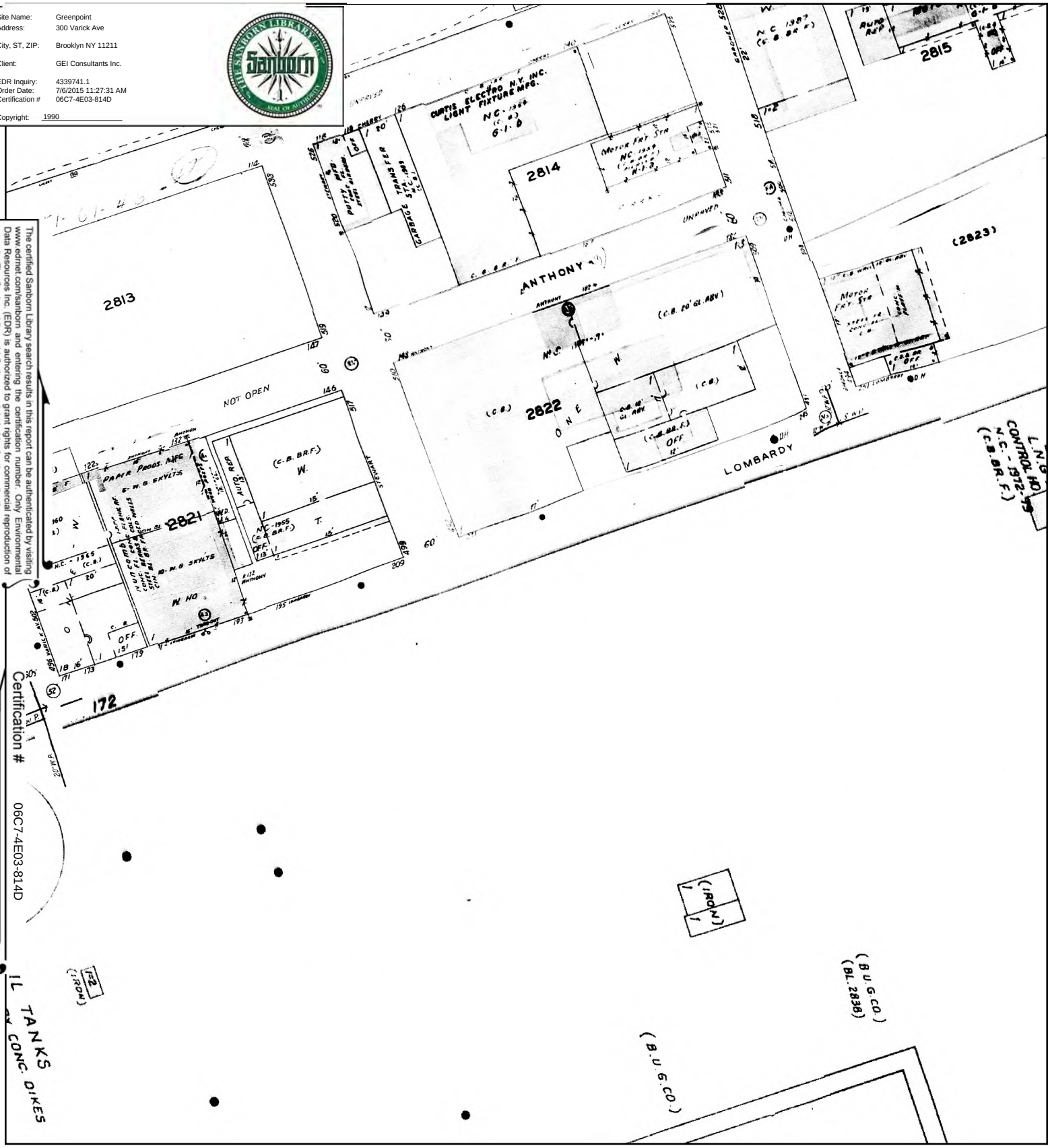

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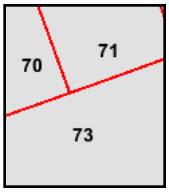

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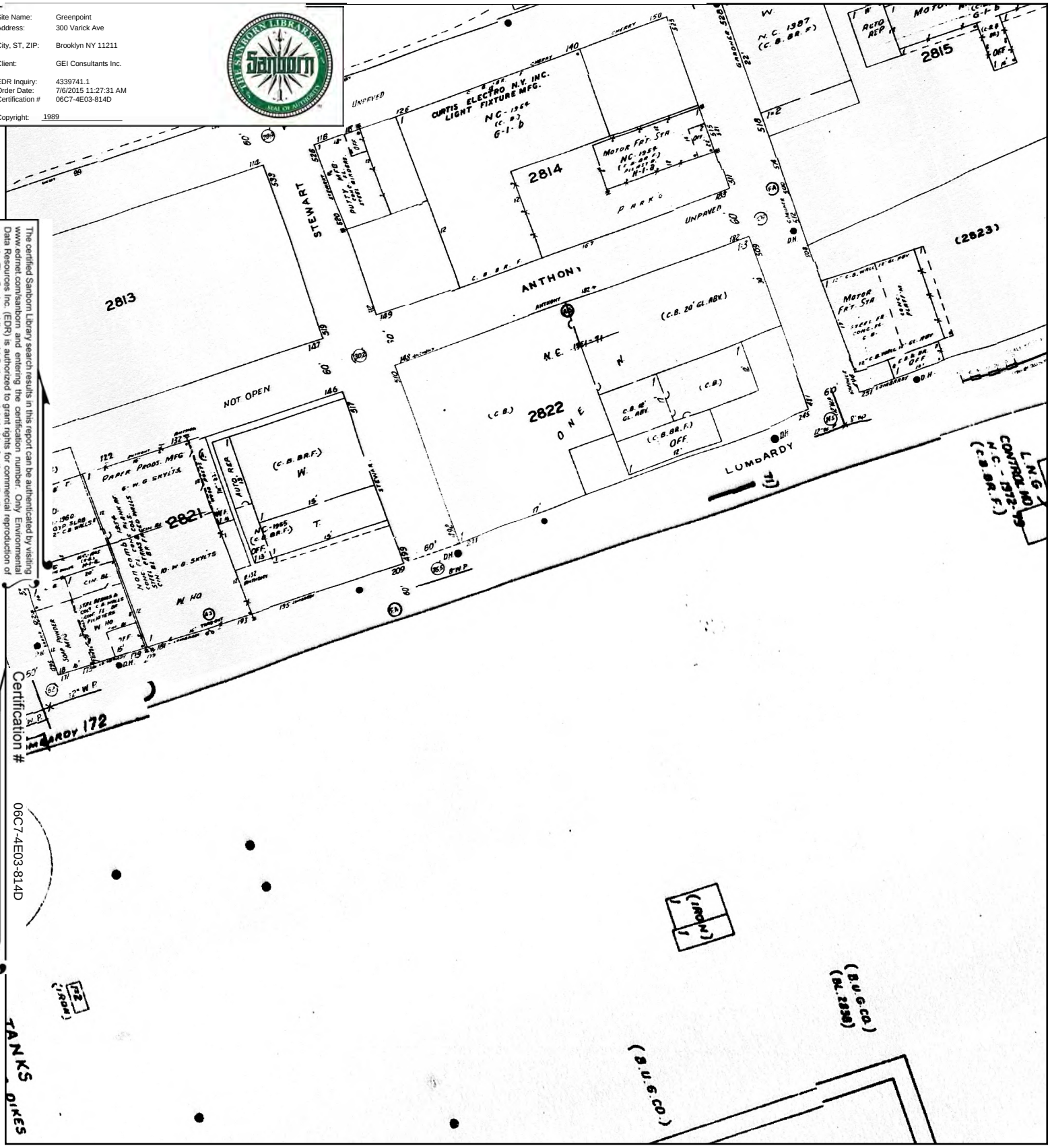

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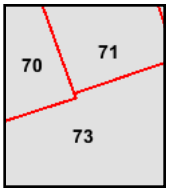

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1988 Certified Sanborn Map

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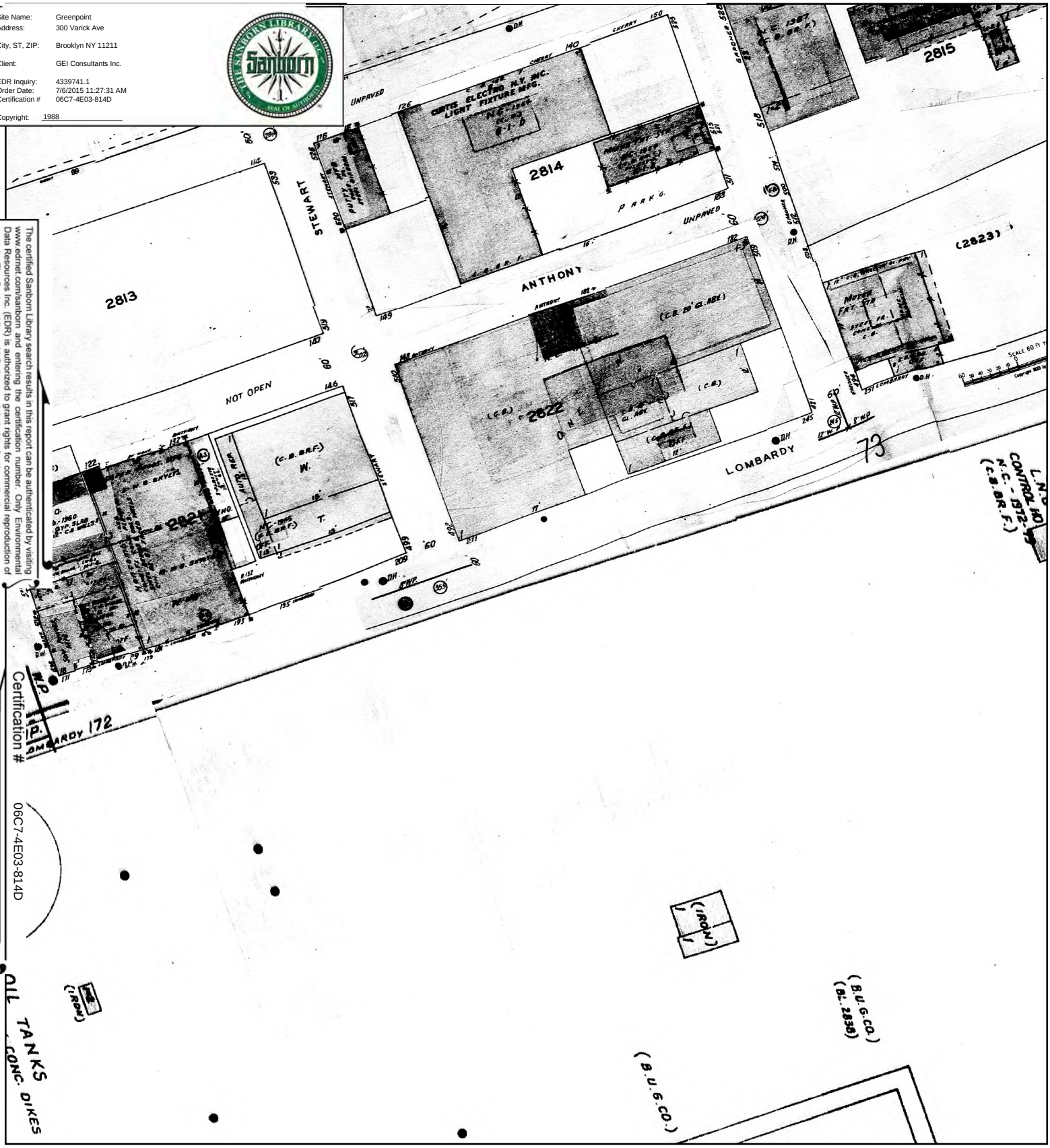

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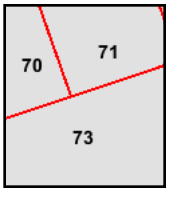

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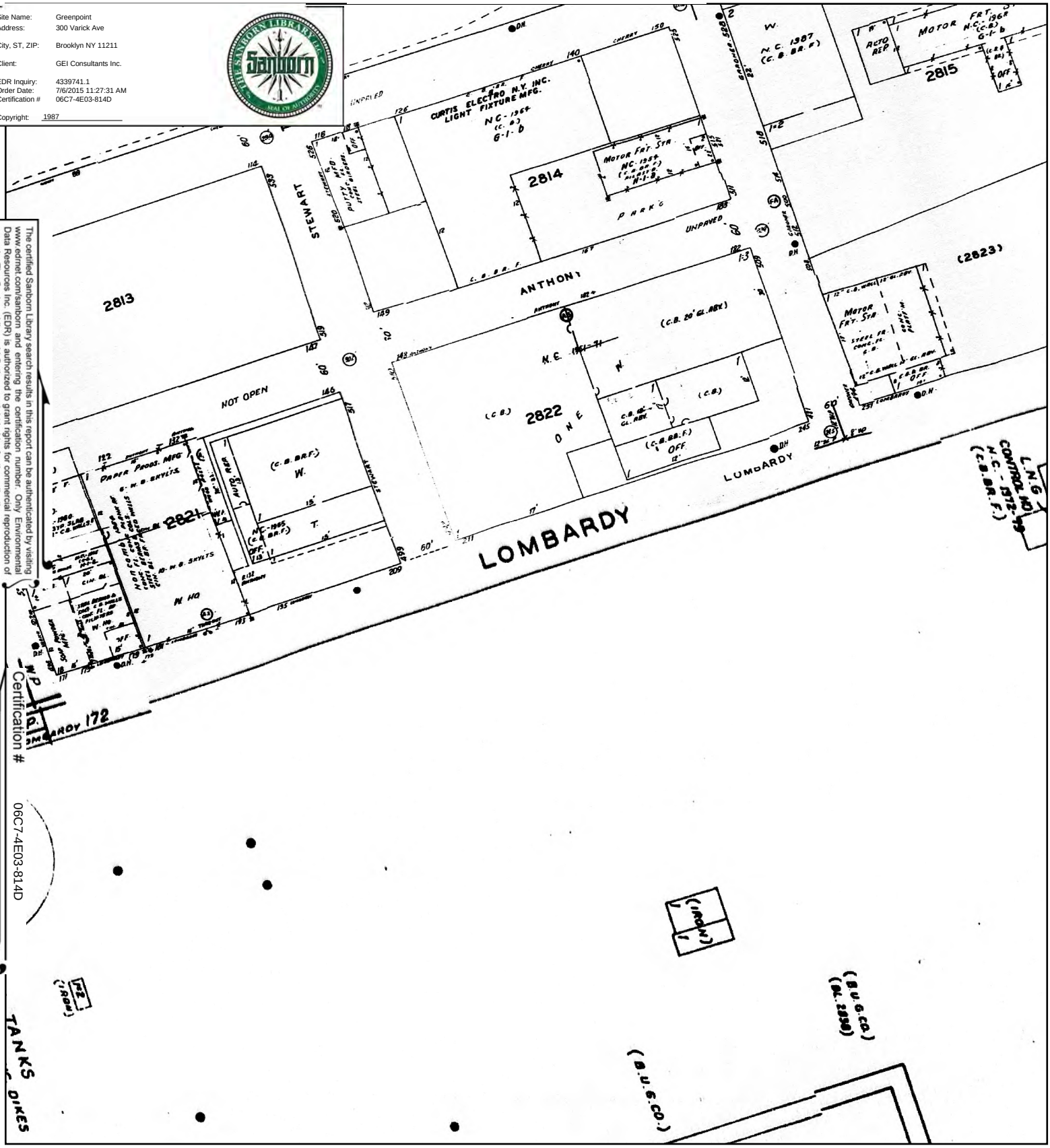

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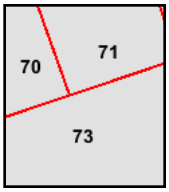

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1986 Certified Sanborn Map

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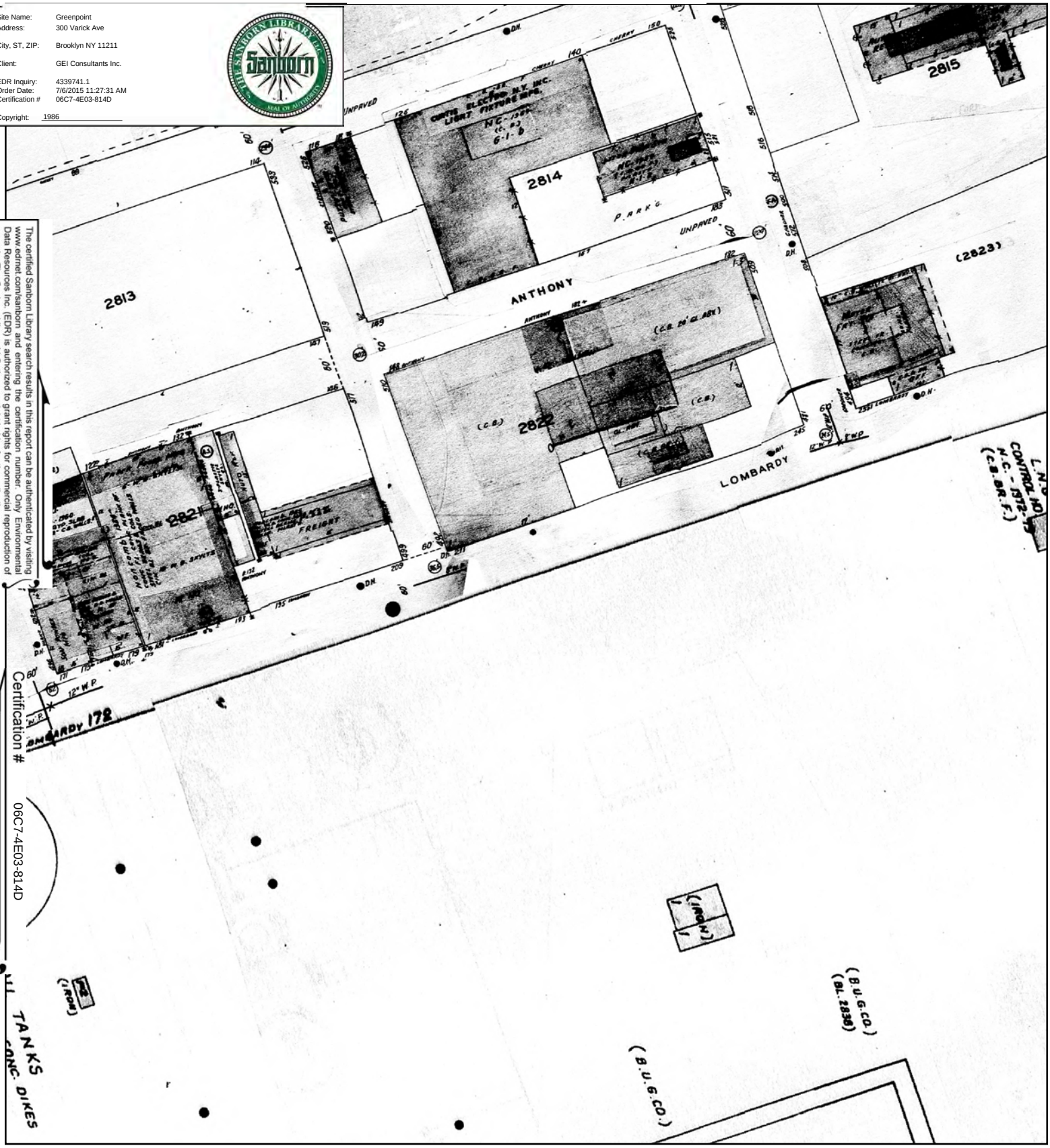

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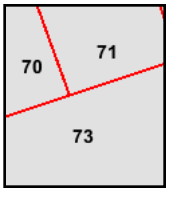

Volume 9, Sheet 70
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1982 Certified Sanborn Map

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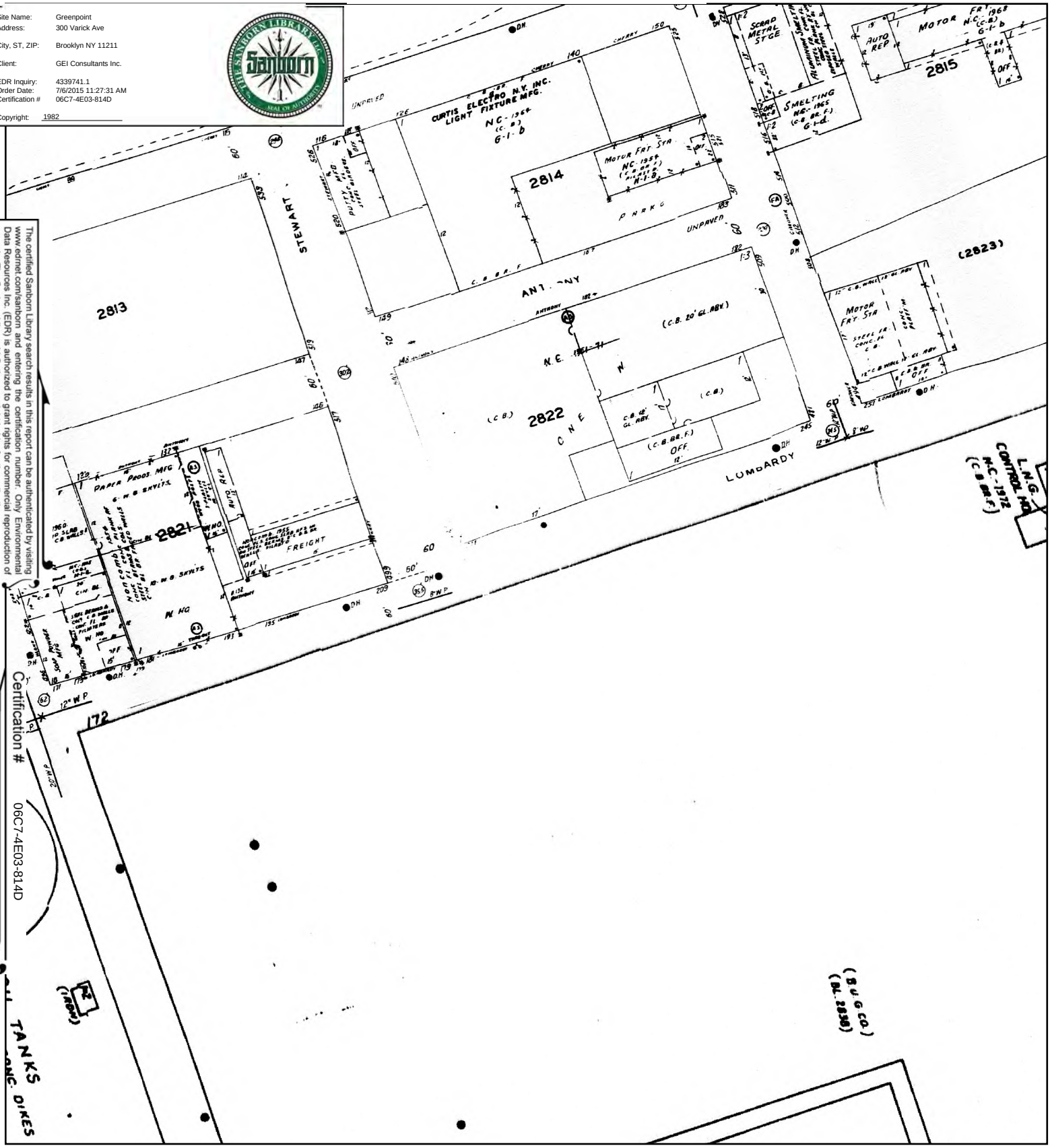

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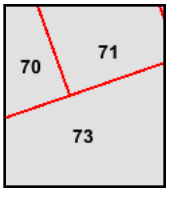

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1981 Certified Sanborn Map

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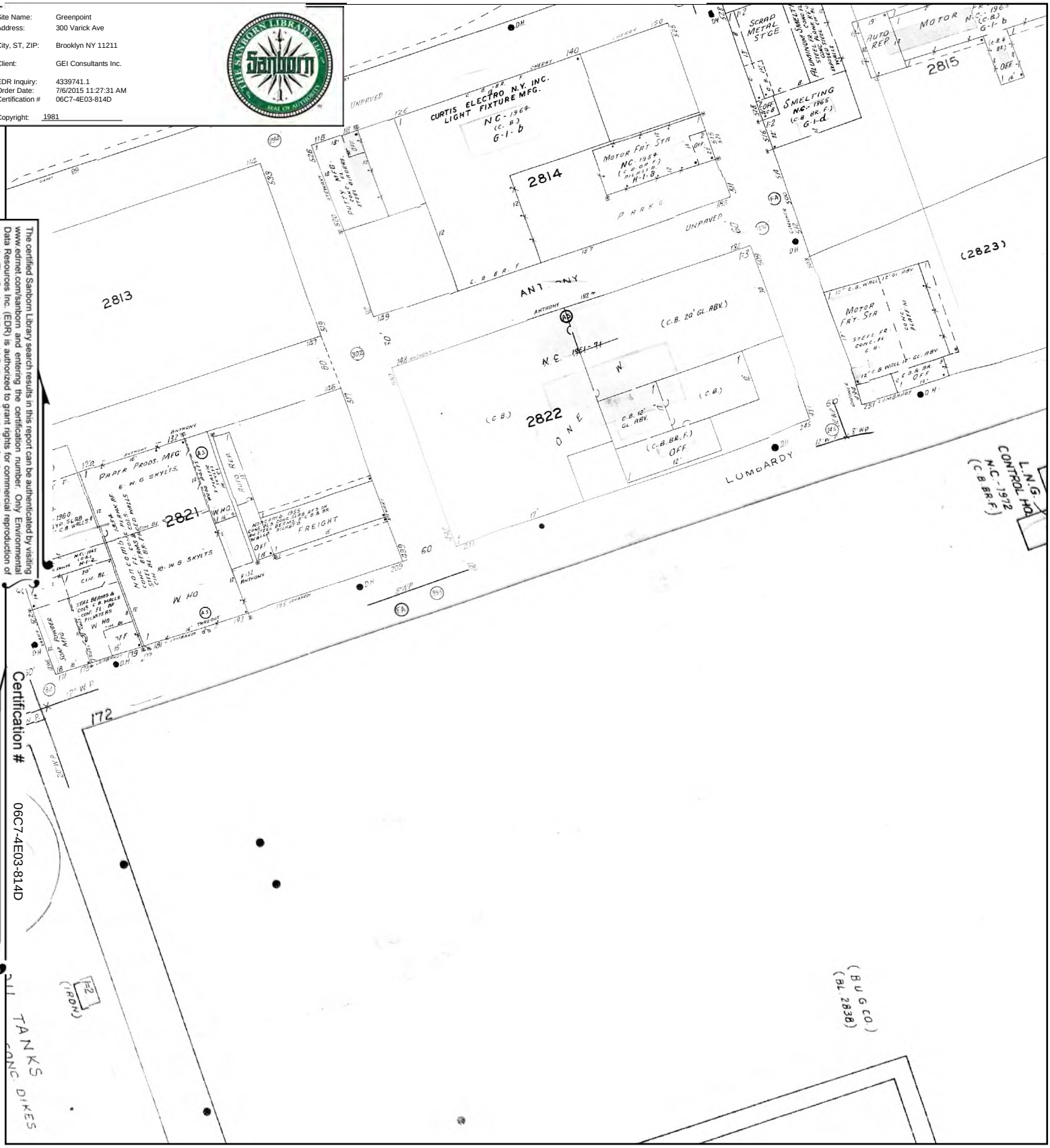

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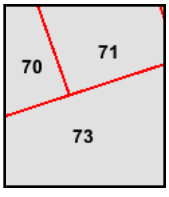

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1980 Certified Sanborn Map

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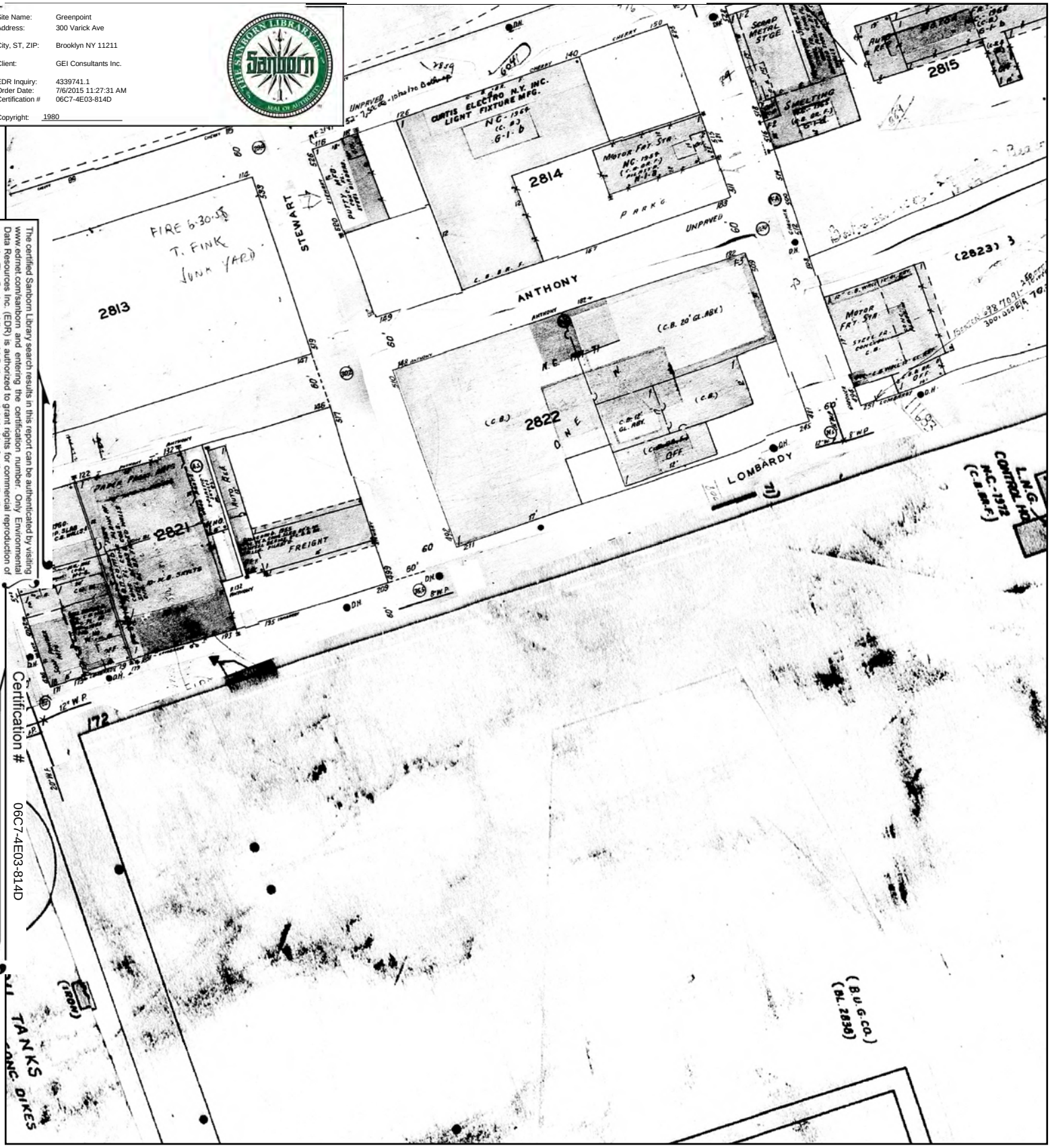

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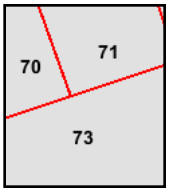

Volume 9, Sheet 70
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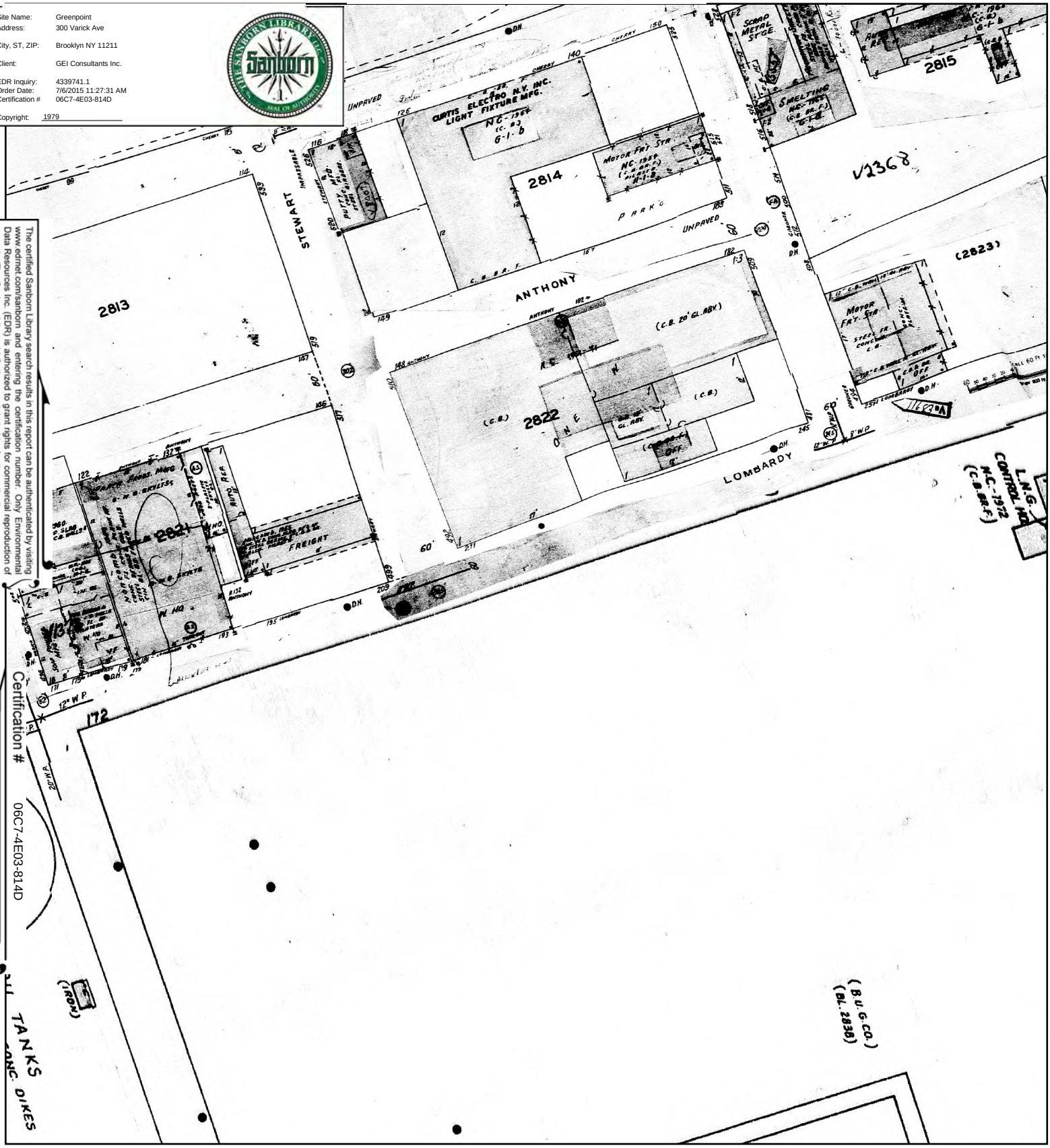

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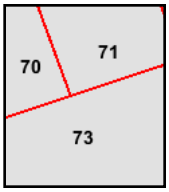

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N

1977 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1977

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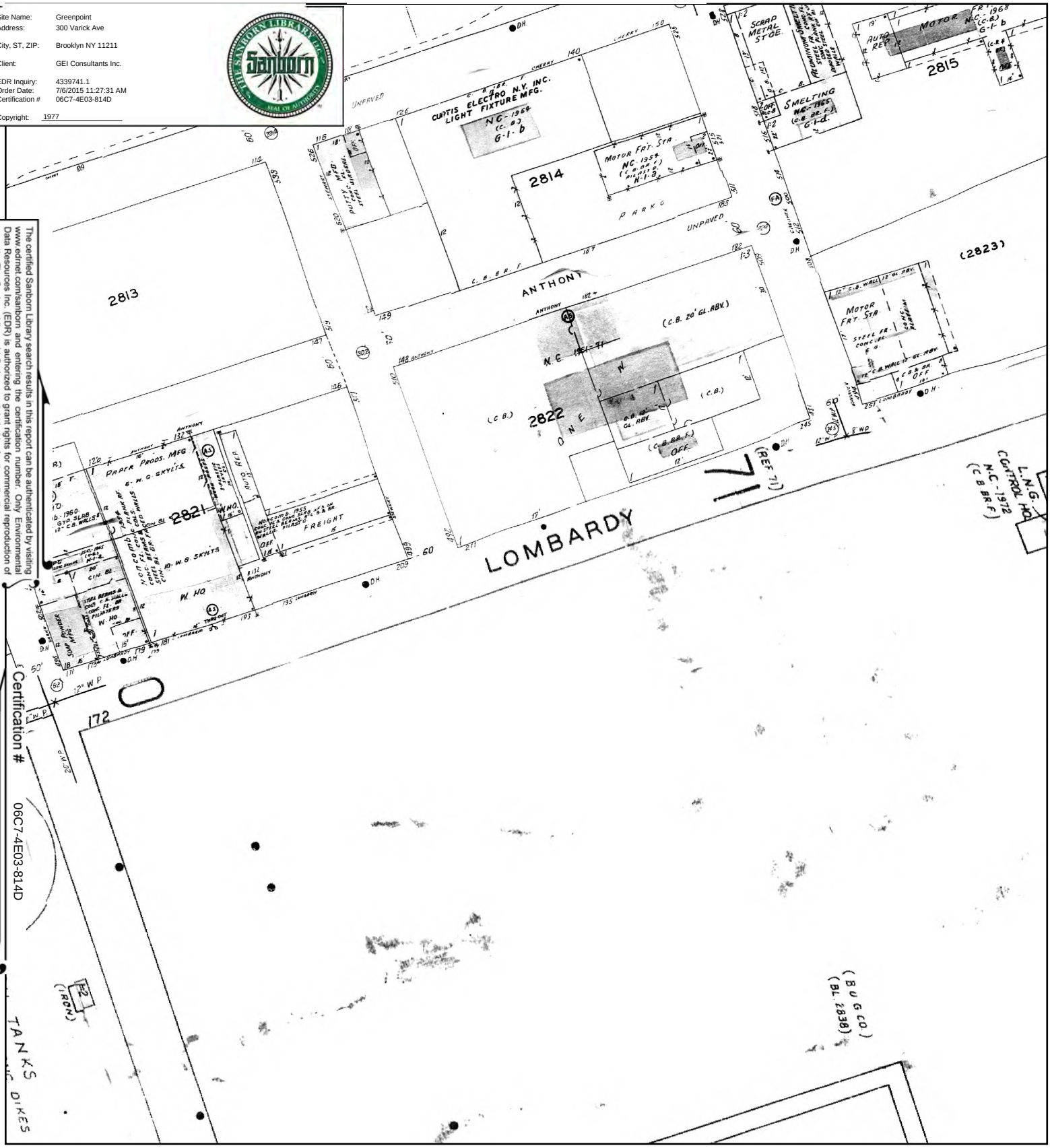
Certification # 06C7-4E03-814D



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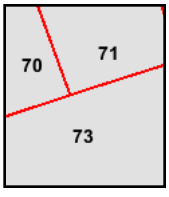
Outlined areas indicate map sheets within the collection.





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0 Feet 165 330 660

N

1968 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1968

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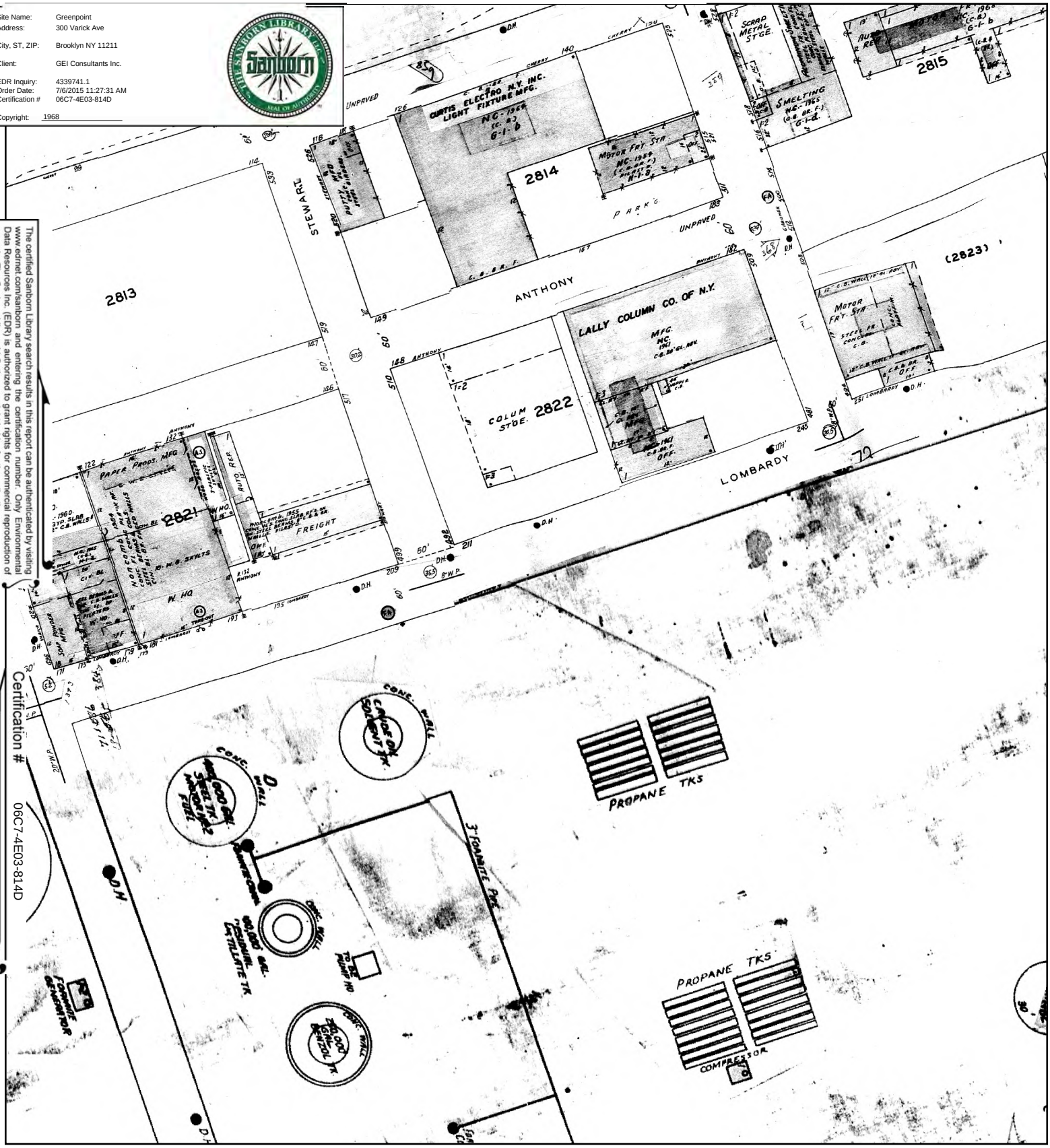
Certification # 06C7-4E03-814D



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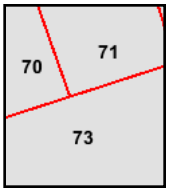

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N

1965 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1965

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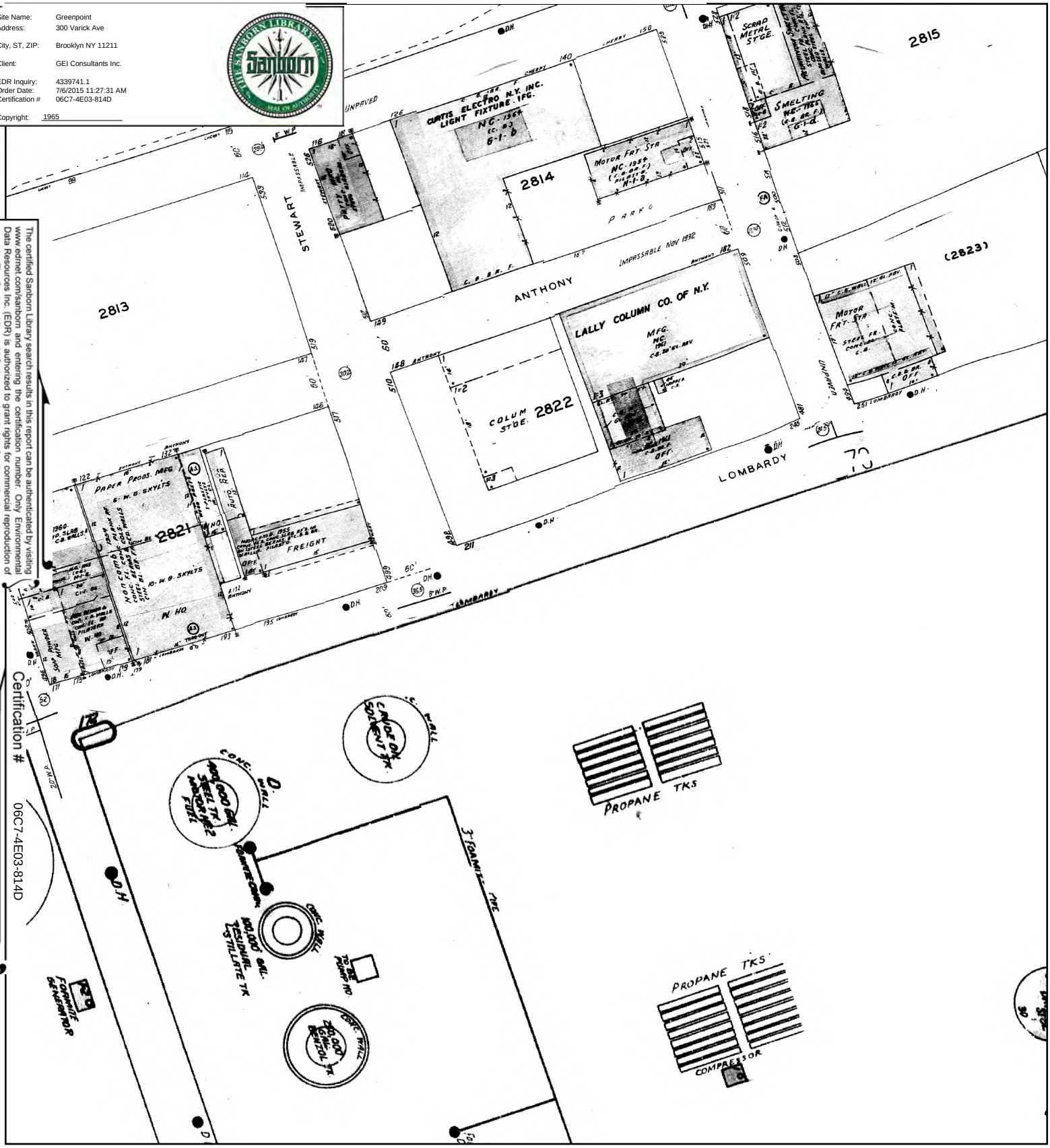

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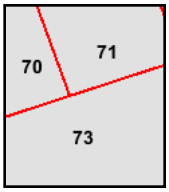

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N

1951 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1951

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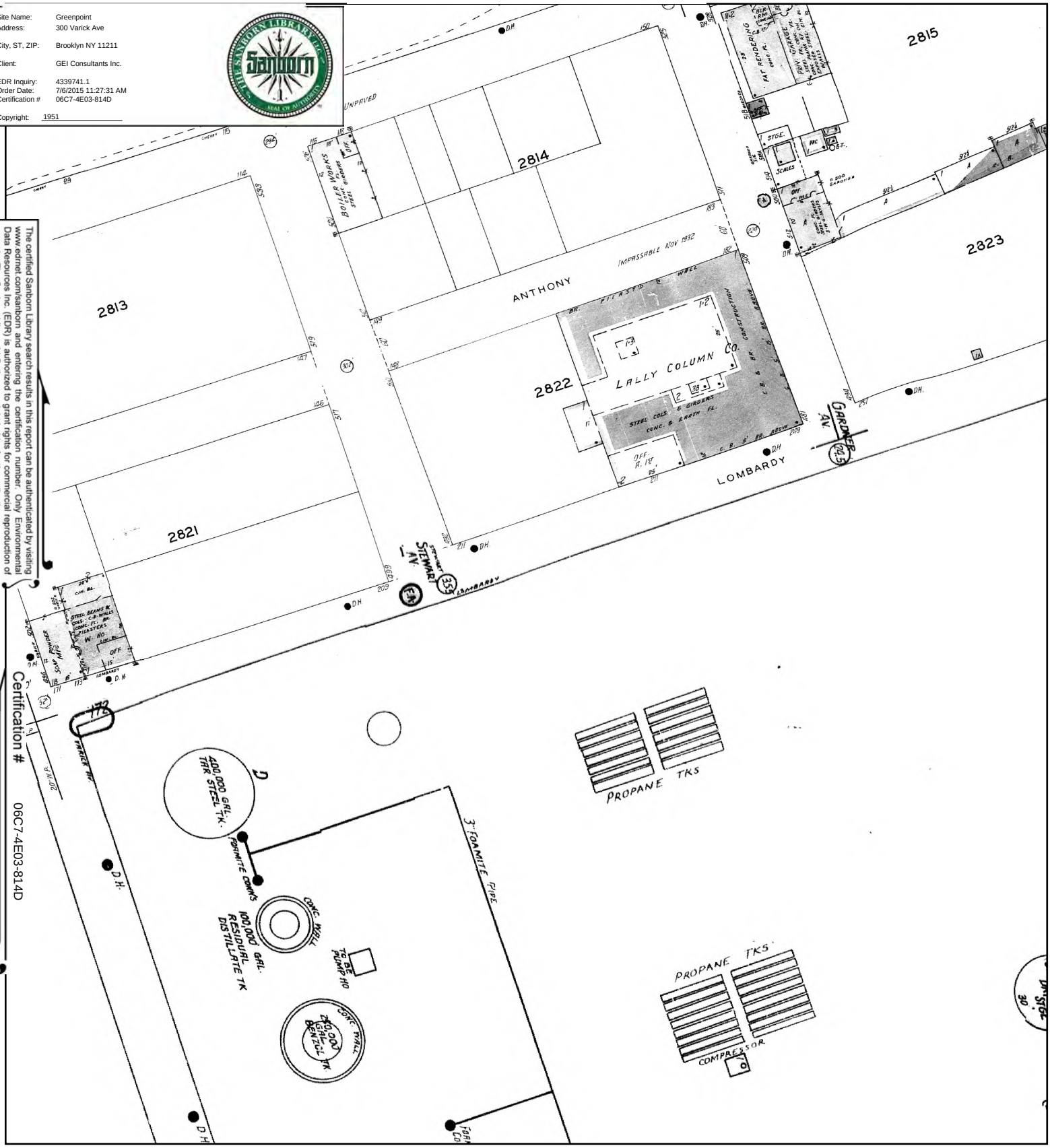
Certification # 06C7-4E03-814D



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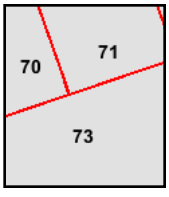

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N

1933 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1933

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1907 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1907

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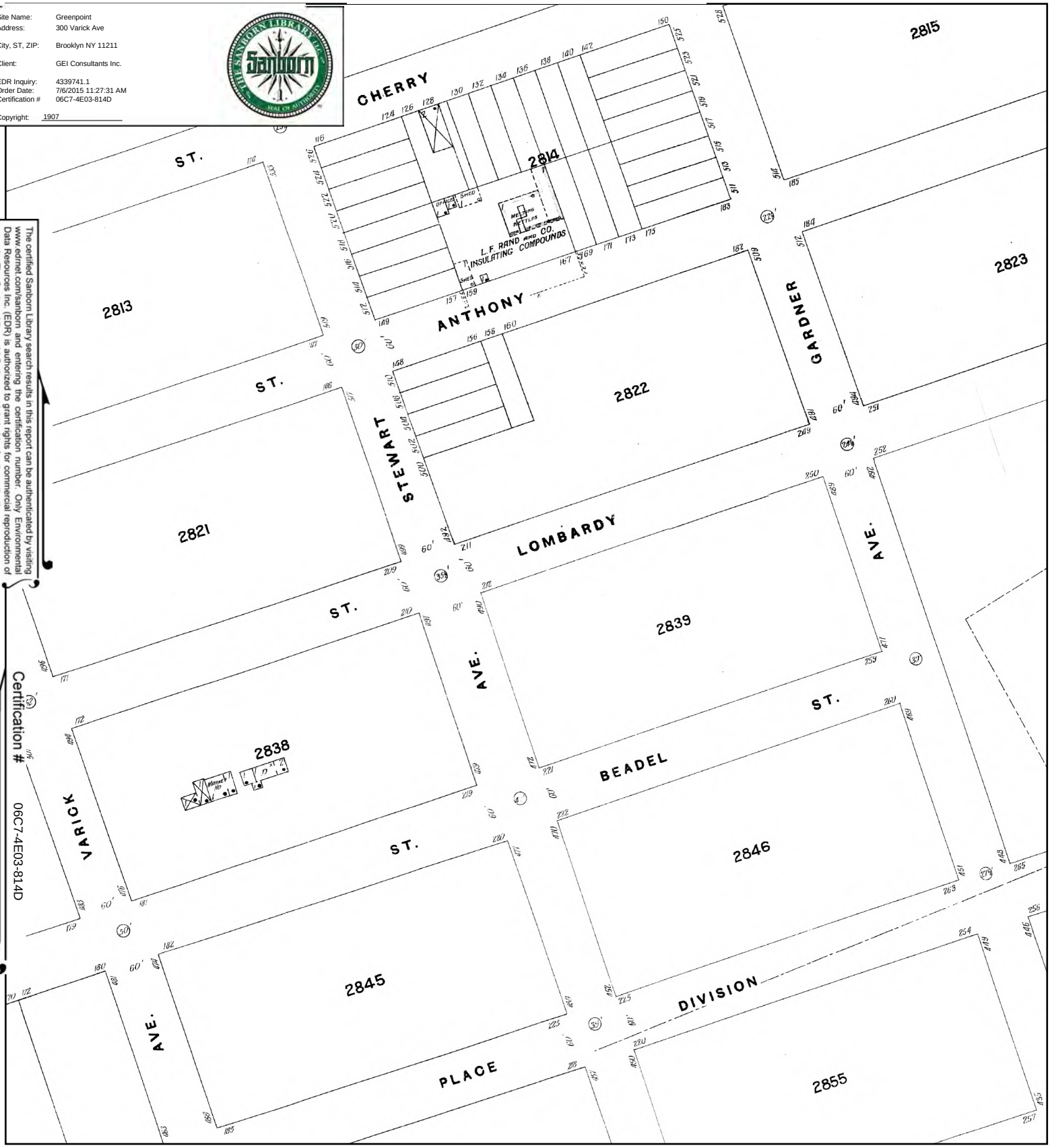
Certification # 06C7-4E03-814D



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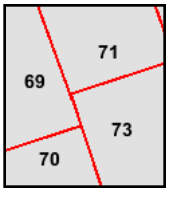

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N

1888 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1888

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Certification # 06C7-4E03-814D

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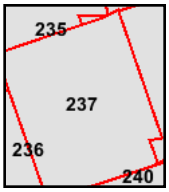

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Volume 9, Sheet 237
Volume 9, Sheet 237

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1965
2006	1995	1989	1980	1951
2005	1994	1988	1979	1933
2004	1993	1987	1977	1907
2003	1992	1986	1971	1902
2002	1991	1982	1968	1888

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

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2007 Source Sheets



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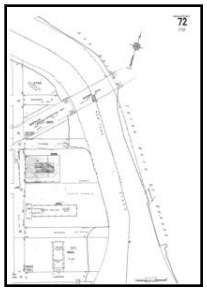

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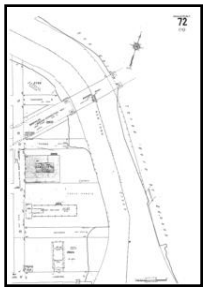
2006 Source Sheets



Volume 9, Sheet 71



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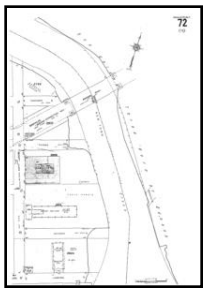
2005 Source Sheets



Volume 9, Sheet 71



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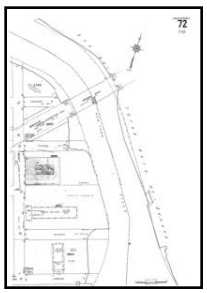
2004 Source Sheets



Volume 9, Sheet 71



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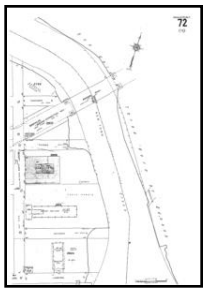
2003 Source Sheets



Volume 9, Sheet 71



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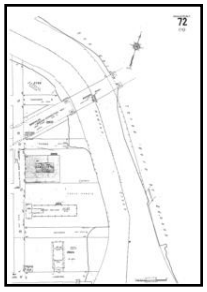
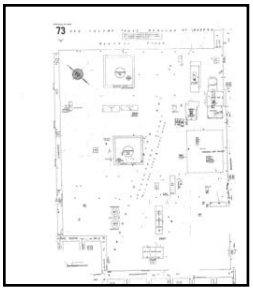
2002 Source Sheets



Volume 9, Sheet 71



Volume 9, Sheet 72



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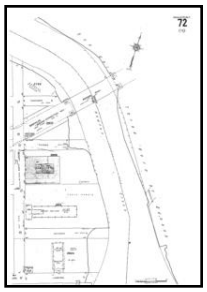
2001 Source Sheets



Volume 9, Sheet 71



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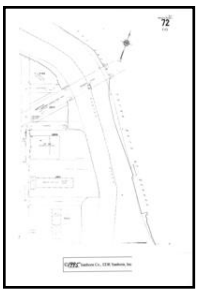
1995 Source Sheets



Volume 3, Sheet 4



Volume 9, Sheet 71



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1994 Source Sheets



Volume 9, Sheet 71



Volume 9, Sheet 72

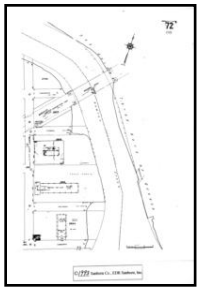


Volume 9, Sheet 73

1993 Source Sheets



Volume 9, Sheet 71



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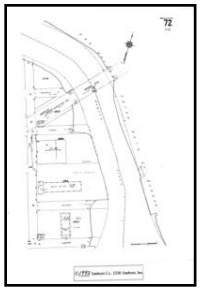

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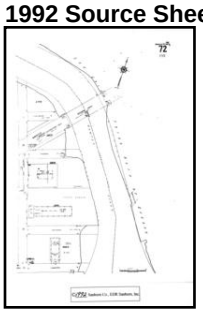

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Volume 9, Sheet 71

1991 Source Sheets



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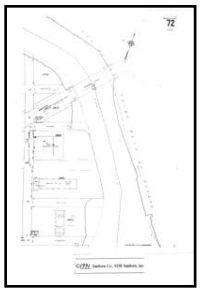

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1990 Source Sheets



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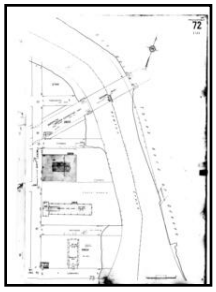
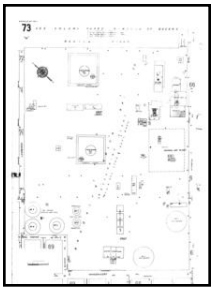


Volume 9, Sheet 72



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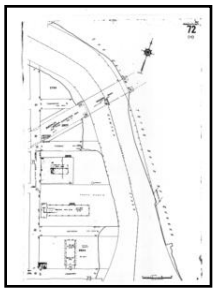
1989 Source Sheets



Volume 9, Sheet 71



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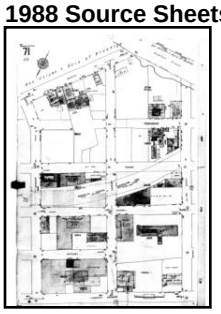
1988 Source Sheets



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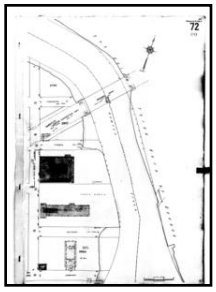

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1987 Source Sheets



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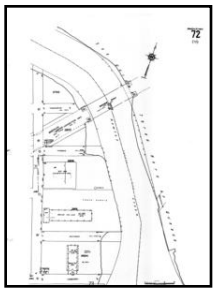

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1986 Source Sheets



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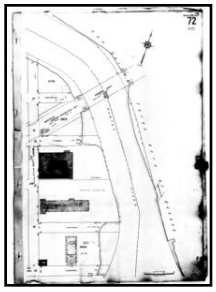

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1982 Source Sheets



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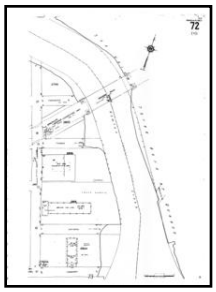

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1981 Source Sheets



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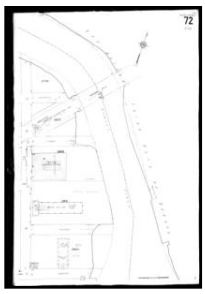

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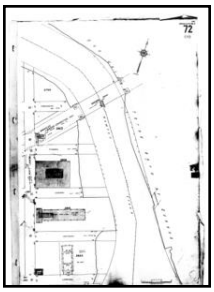
1980 Source Sheets



Volume 3, Sheet 4



Volume 9, Sheet 71



Volume 9, Sheet 72

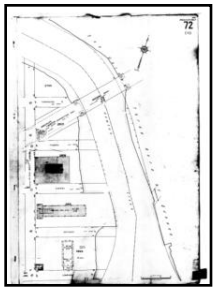


Volume 9, Sheet 73

1979 Source Sheets



Volume 9, Sheet 71



Volume 9, Sheet 72

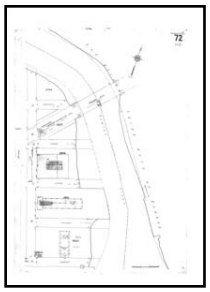


Volume 9, Sheet 73

1977 Source Sheets



Volume 9, Sheet 71



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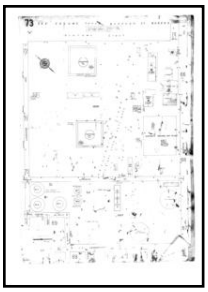


Volume 9, Sheet 73

1971 Source Sheets

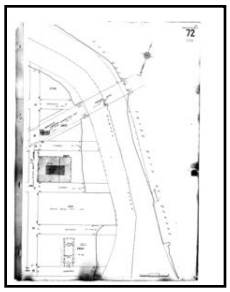


Volume 3, Sheet 4

1968 Source Sheets



Volume 9, Sheet 71



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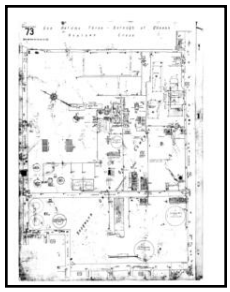

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1965 Source Sheets



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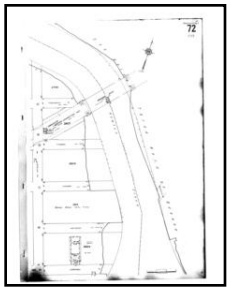

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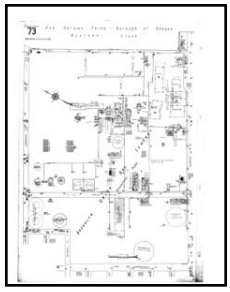

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1951 Source Sheets



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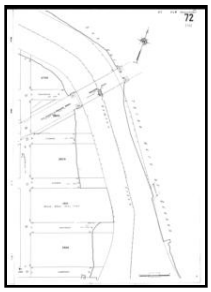

Volume 9, Sheet 72



Volume 9, Sheet 73

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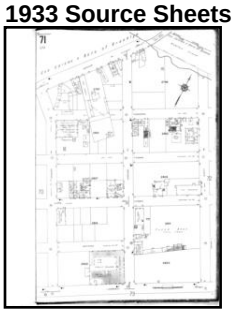
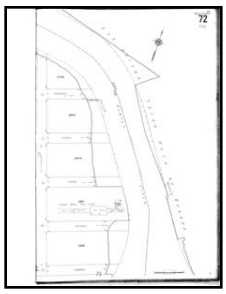


Volume 9, Sheet 71

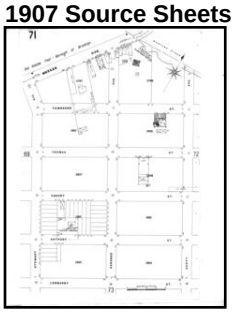


Volume 9, Sheet 72



Volume 9, Sheet 73

1907 Source Sheets



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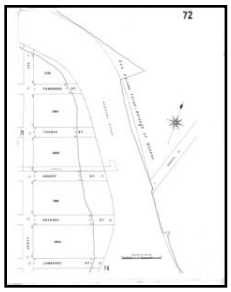

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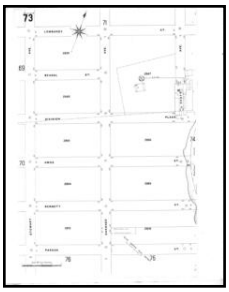

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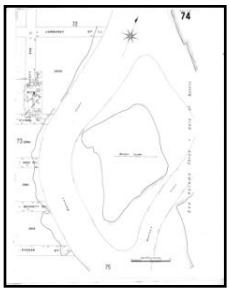

Volume 9, Sheet 74

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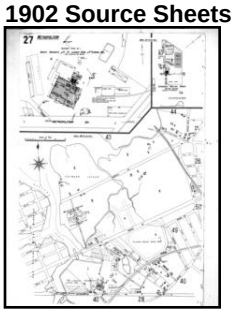
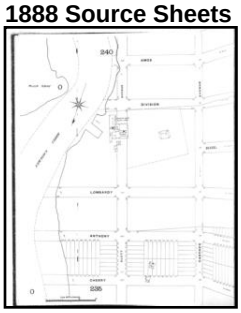


Volume 3, Sheet 27

1888 Source Sheets



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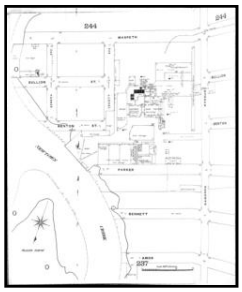

Volume 9, Sheet 239

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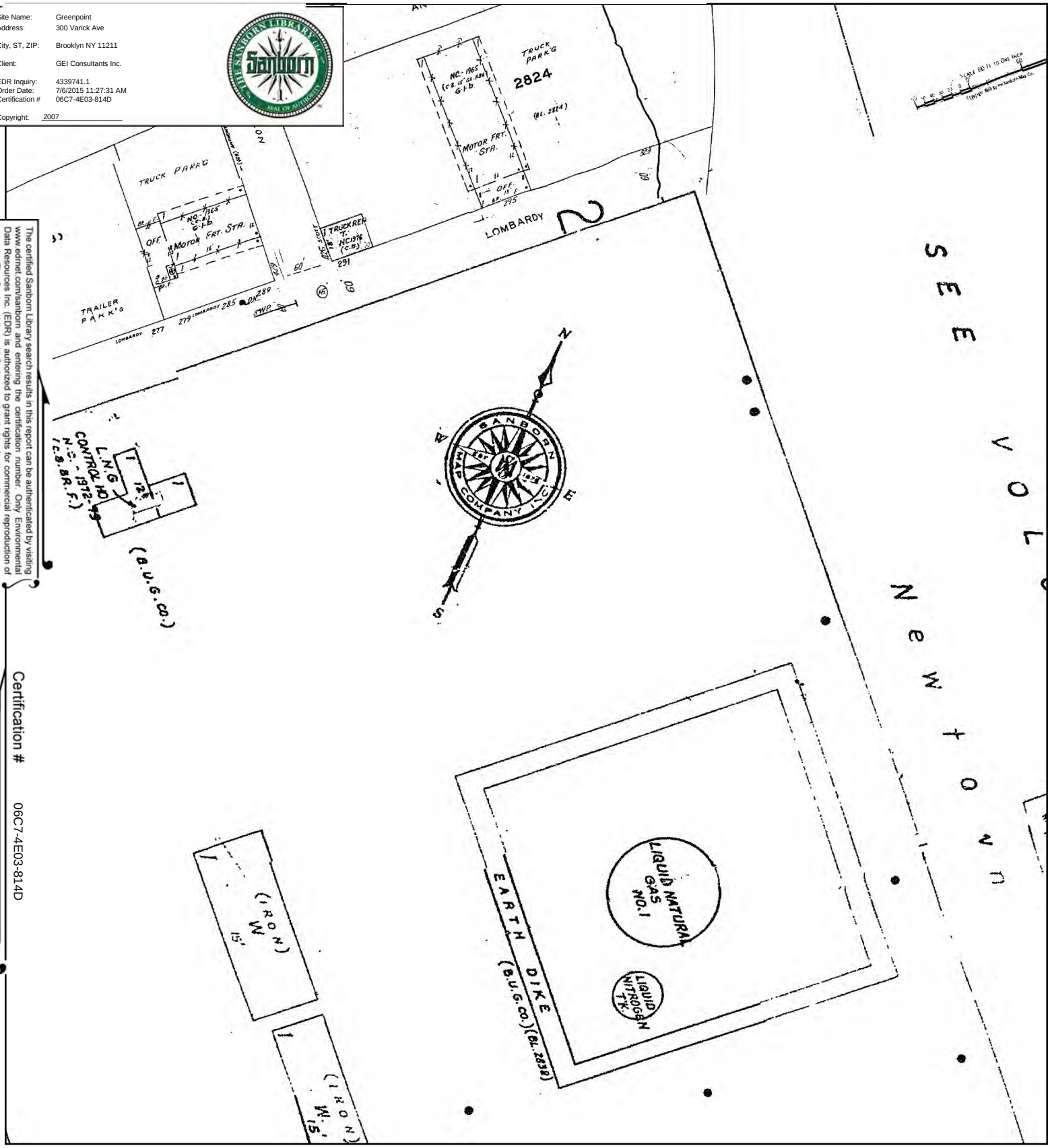

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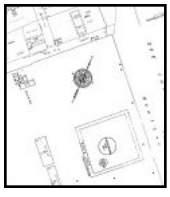

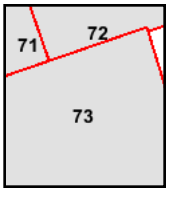

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Volume 9, Sheet 73

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2006 Certified Sanborn Map

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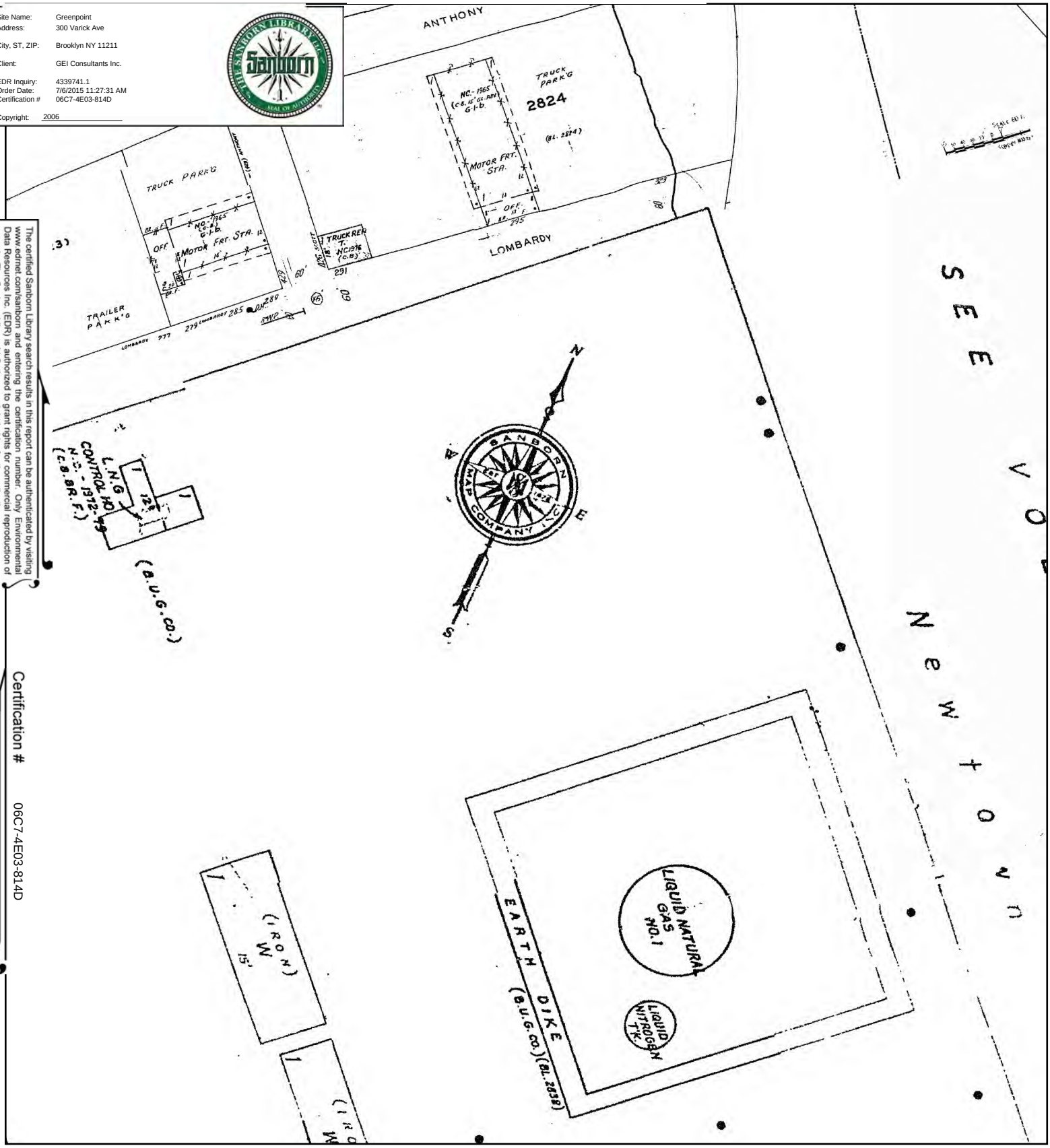

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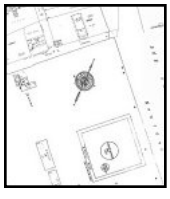

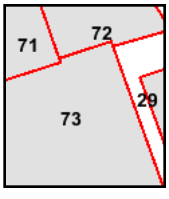

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2006 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
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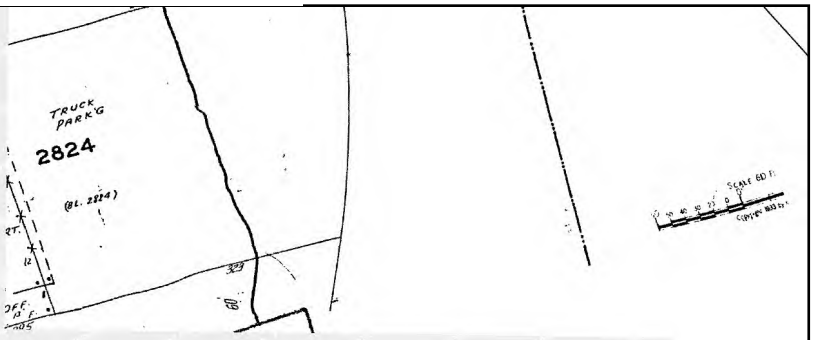

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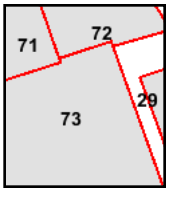

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2005 Certified Sanborn Map

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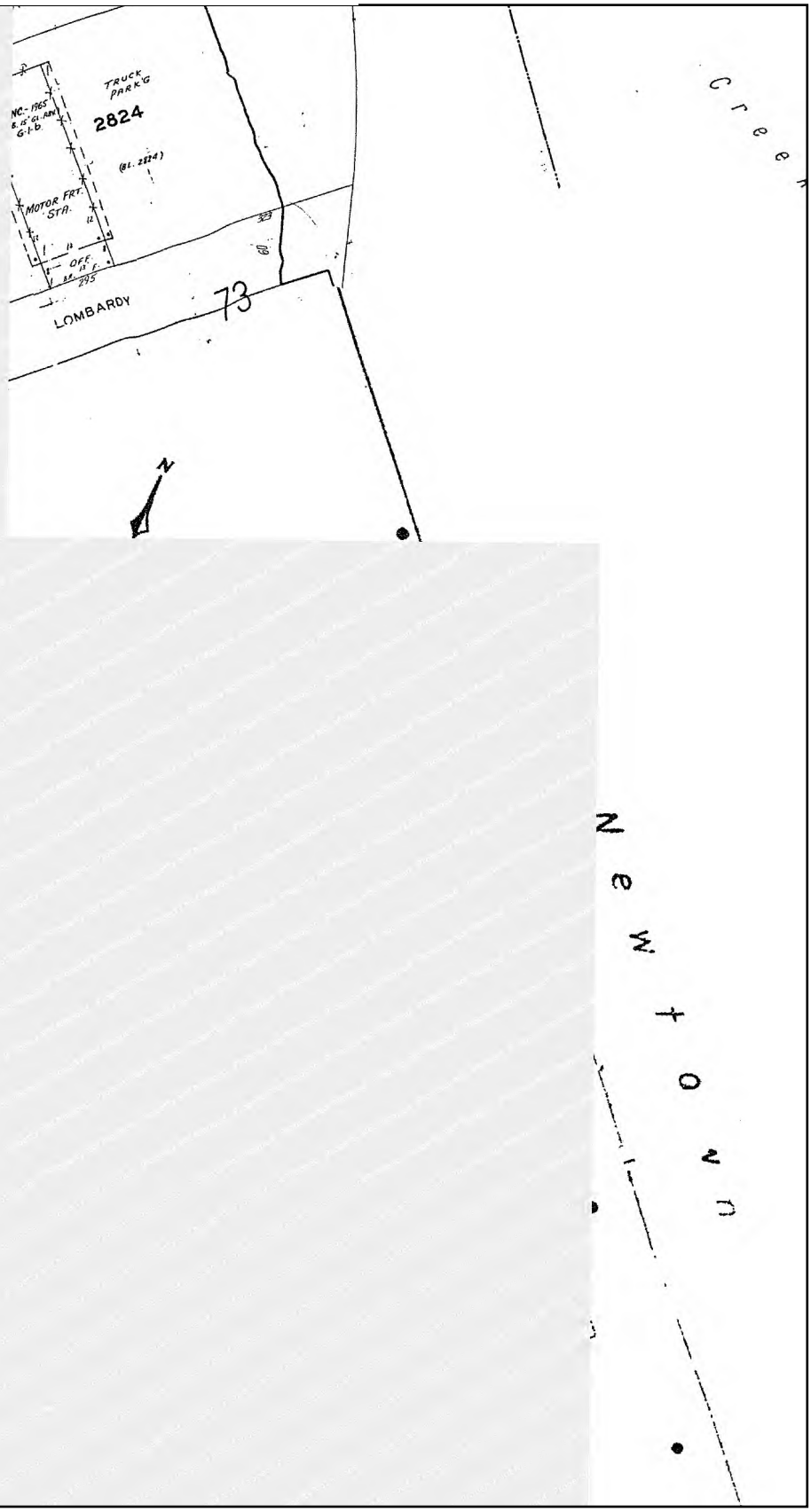

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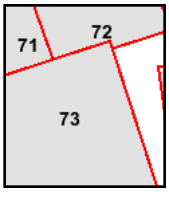

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Volume 9, Sheet 73

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EDR Inquiry: 4339741.1
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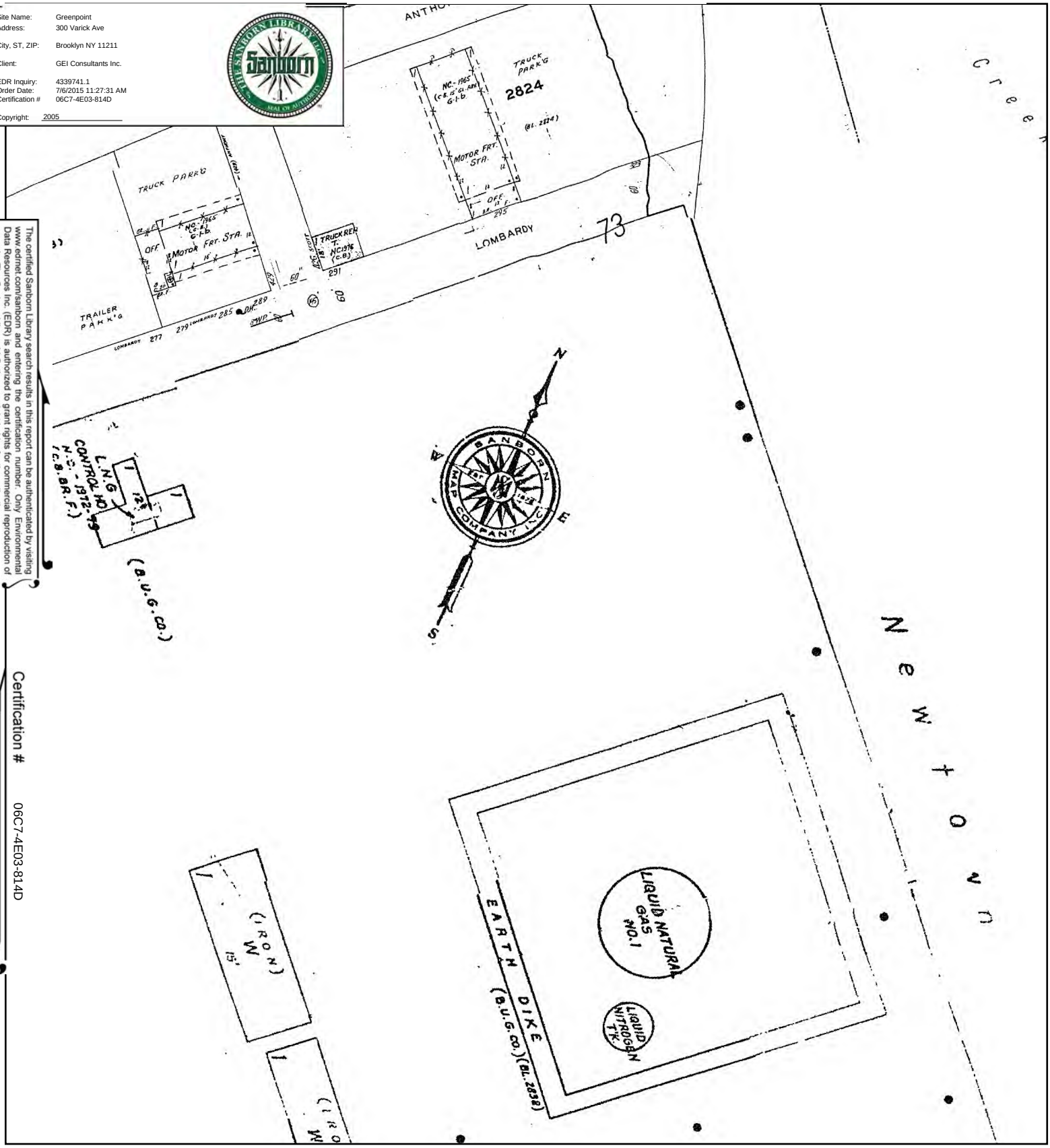

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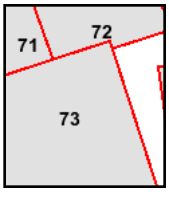

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2004 Certified Sanborn Map

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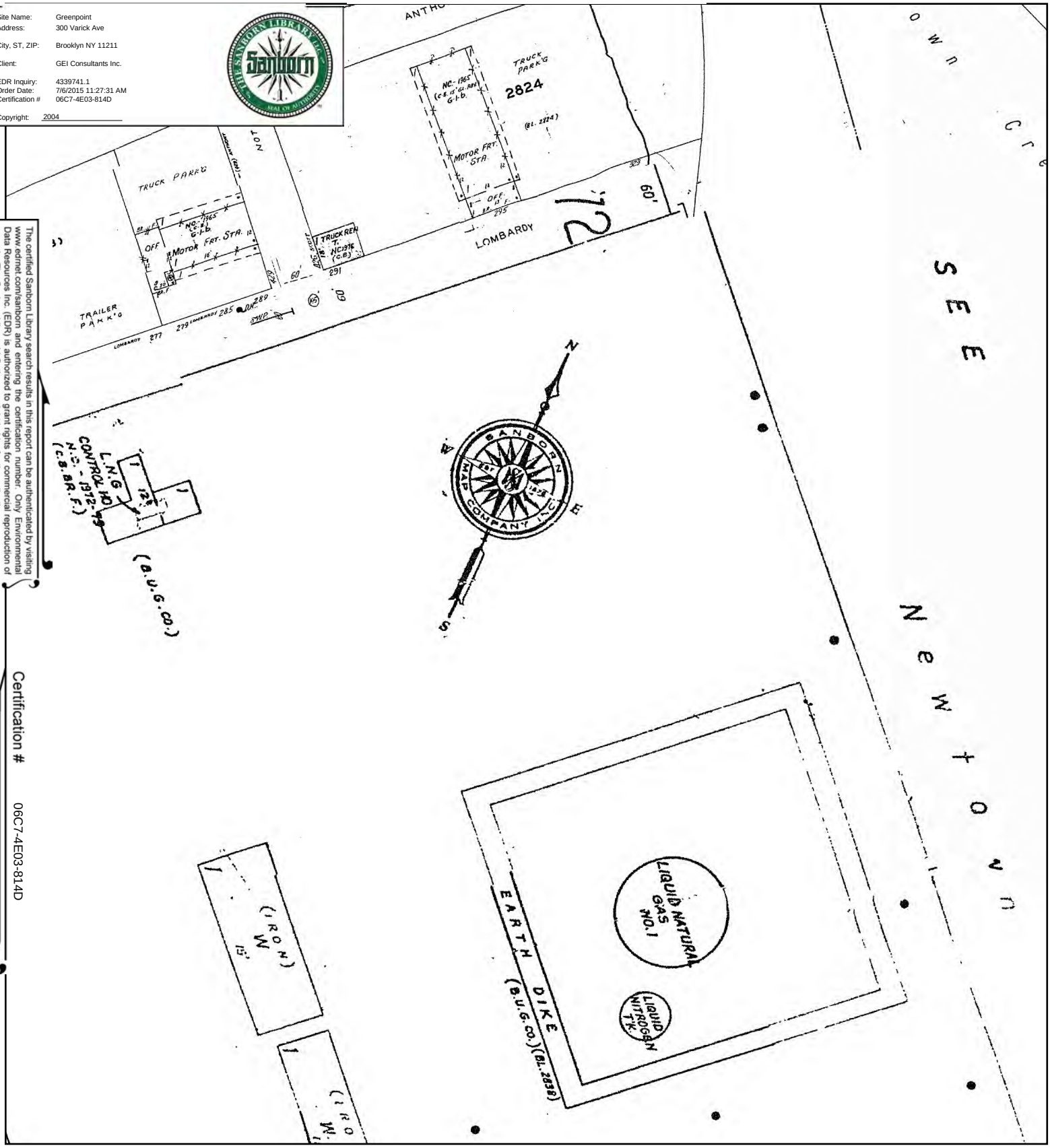

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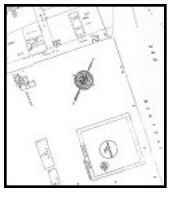

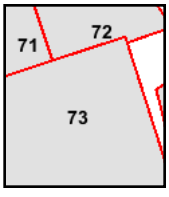

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Volume 9, Sheet 73

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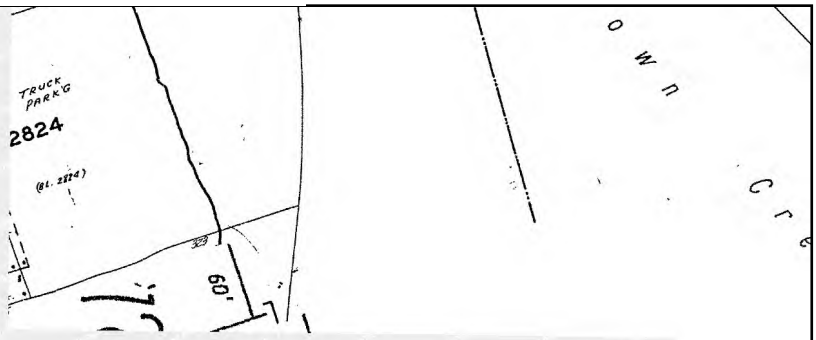

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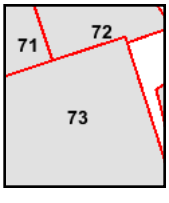

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2003 Certified Sanborn Map

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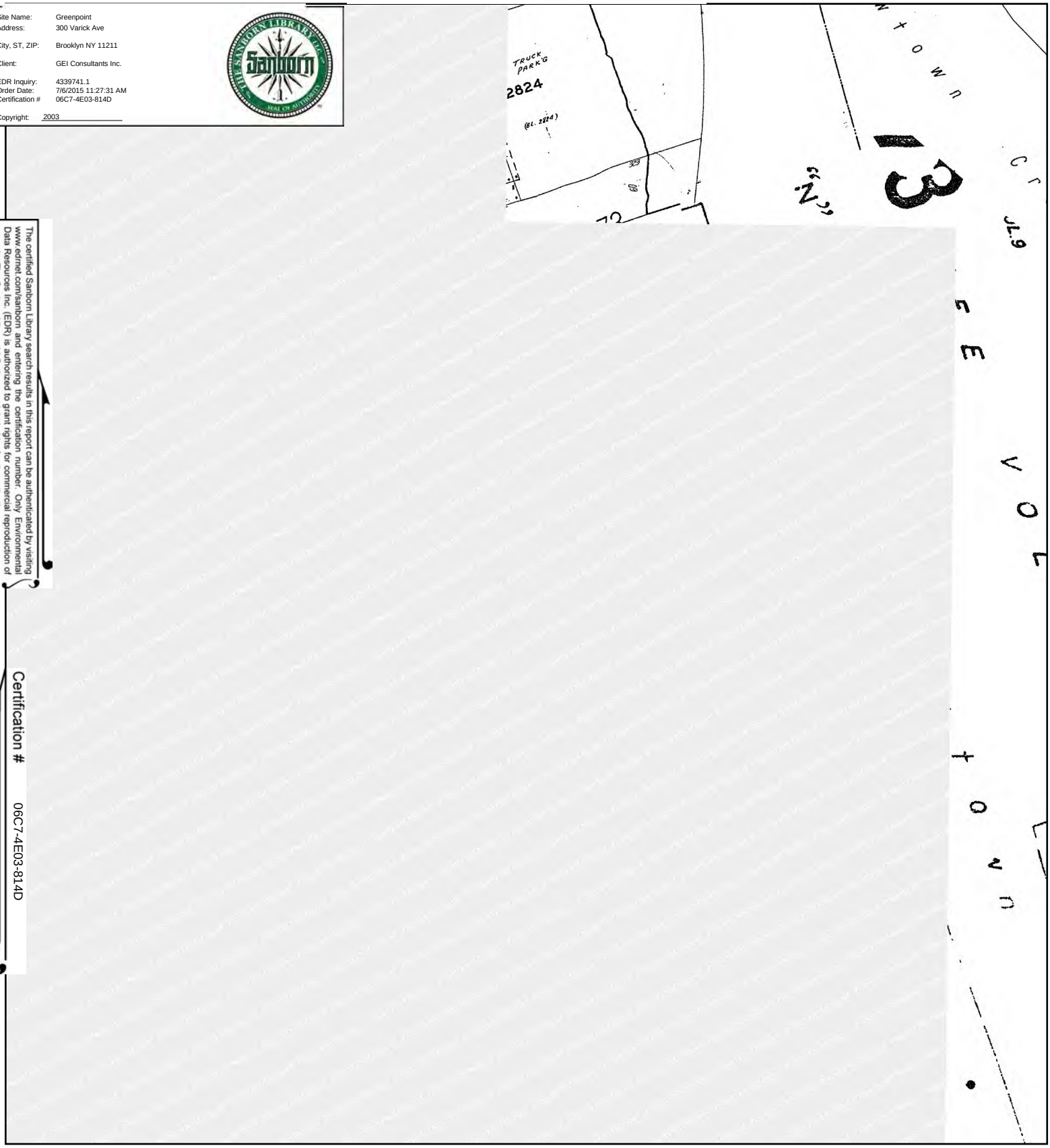

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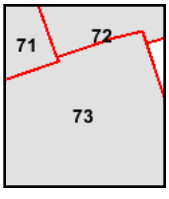

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Volume 9, Sheet 73

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2003 Certified Sanborn Map

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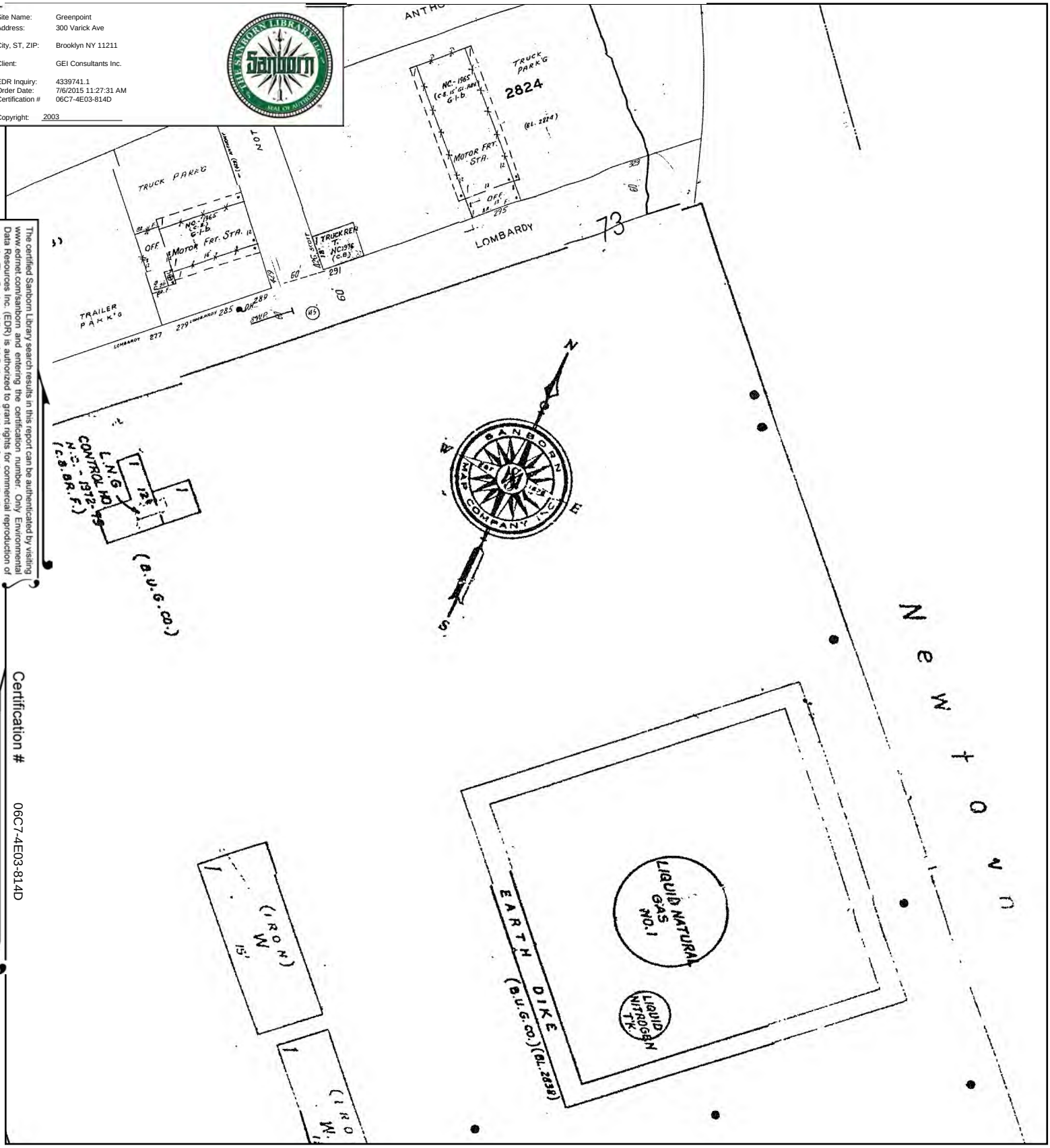

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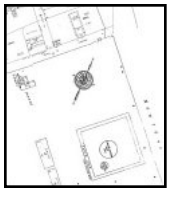

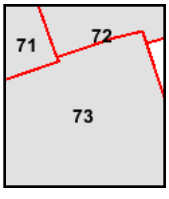

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2002 Certified Sanborn Map

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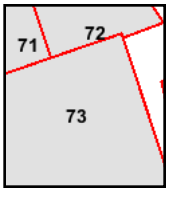

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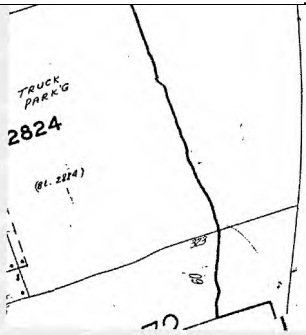

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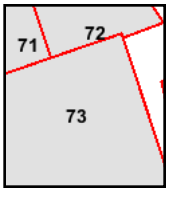

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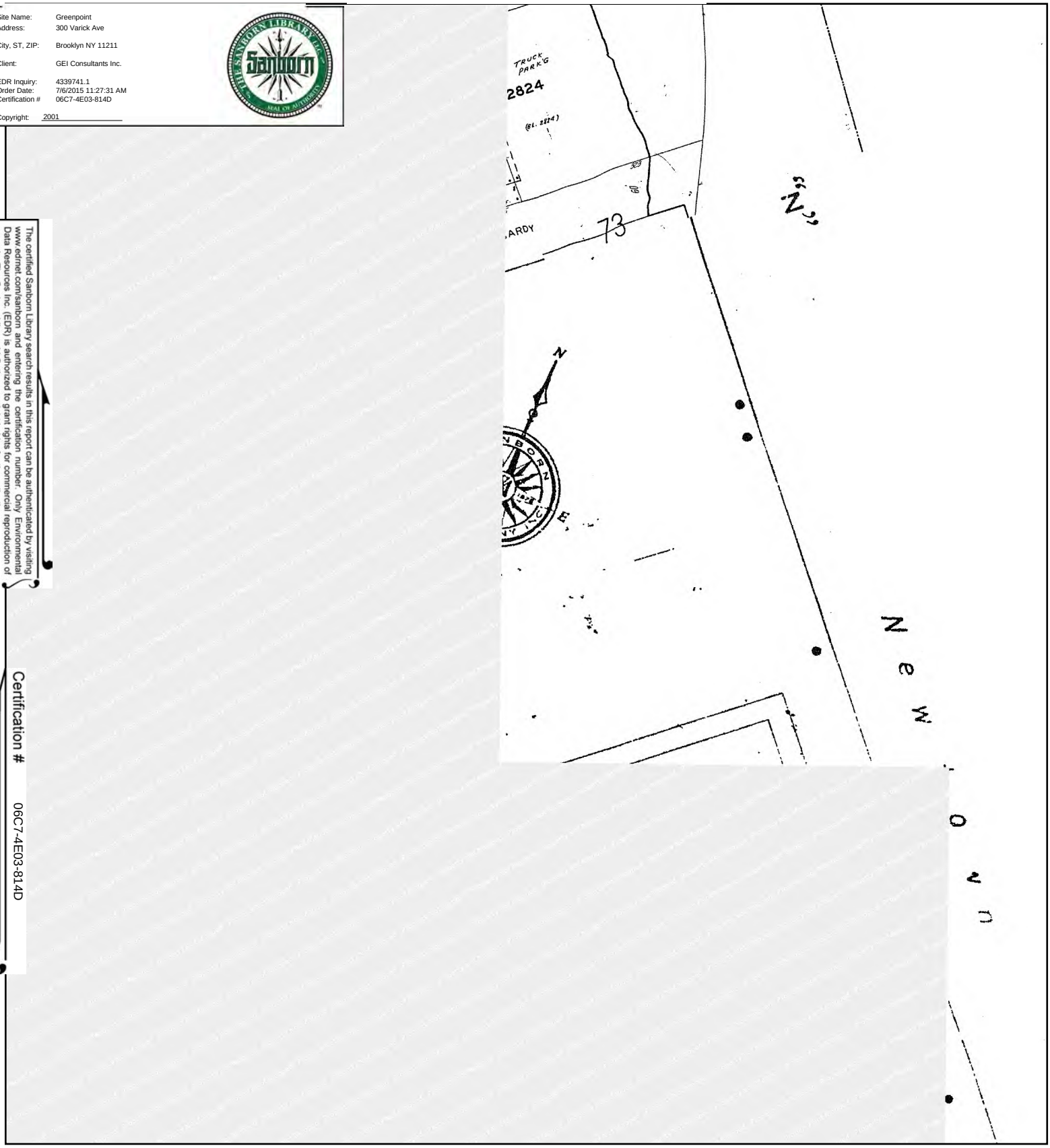

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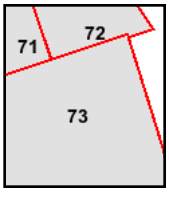

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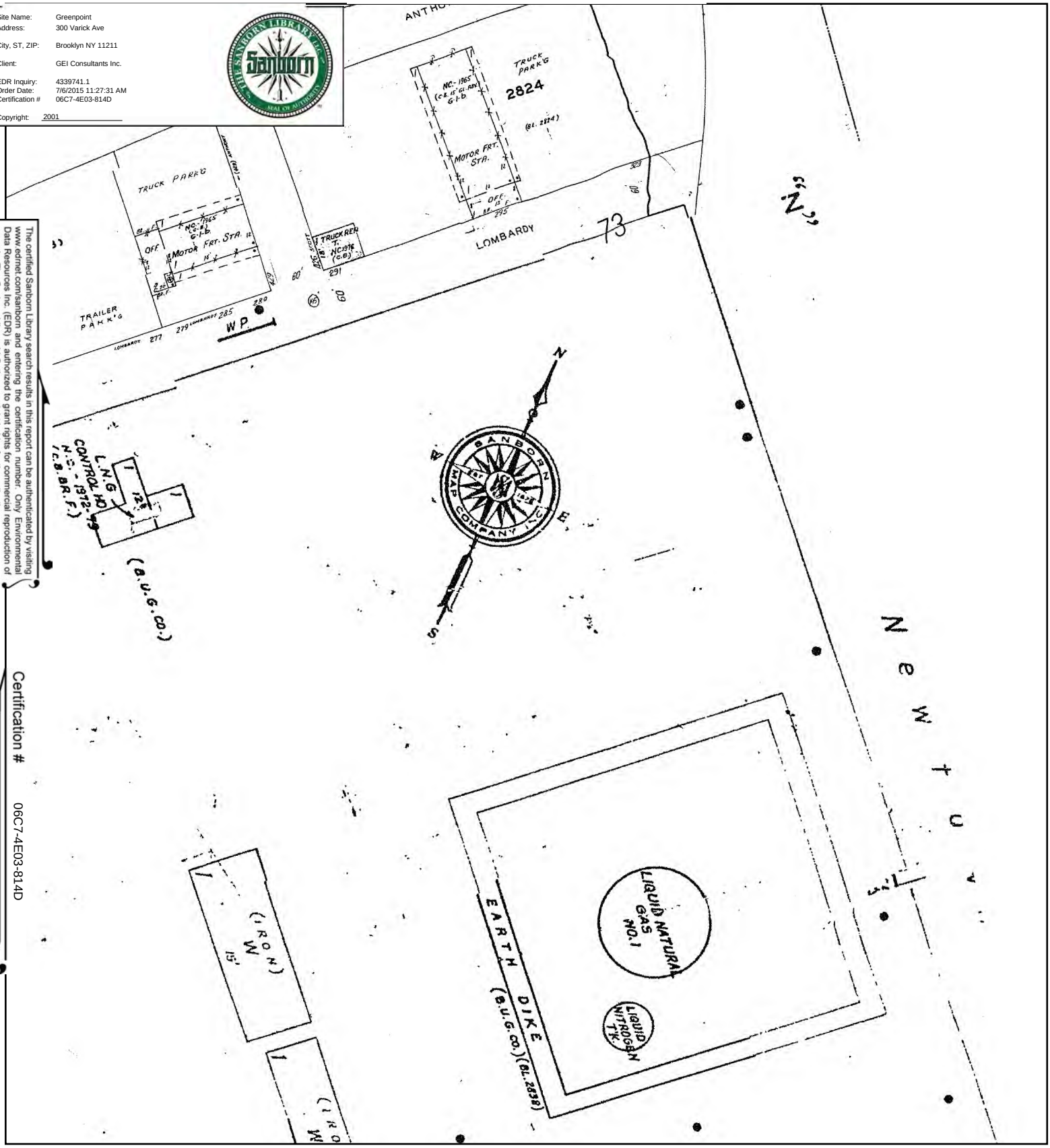

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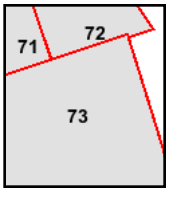

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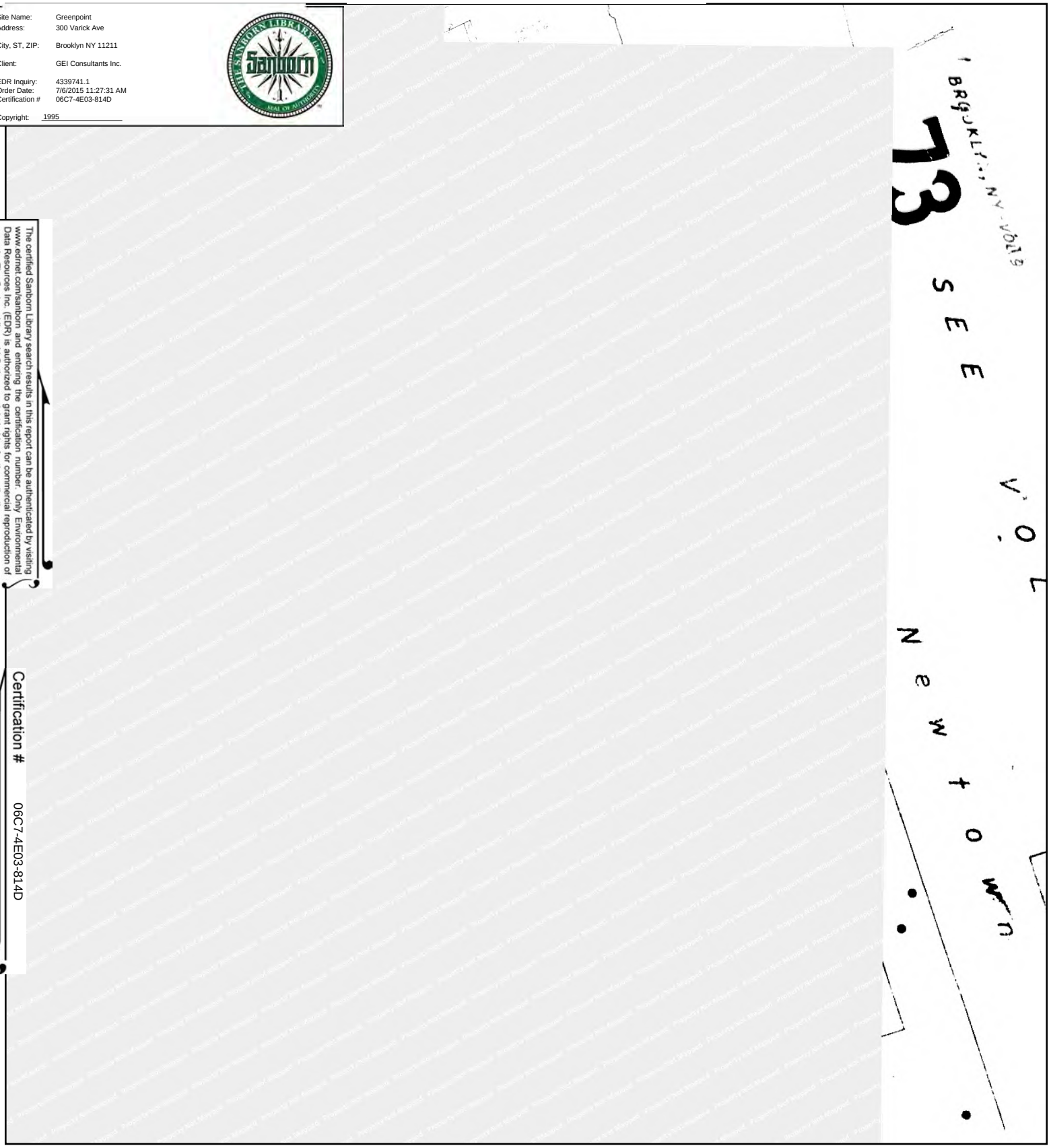

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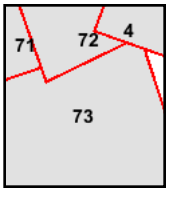

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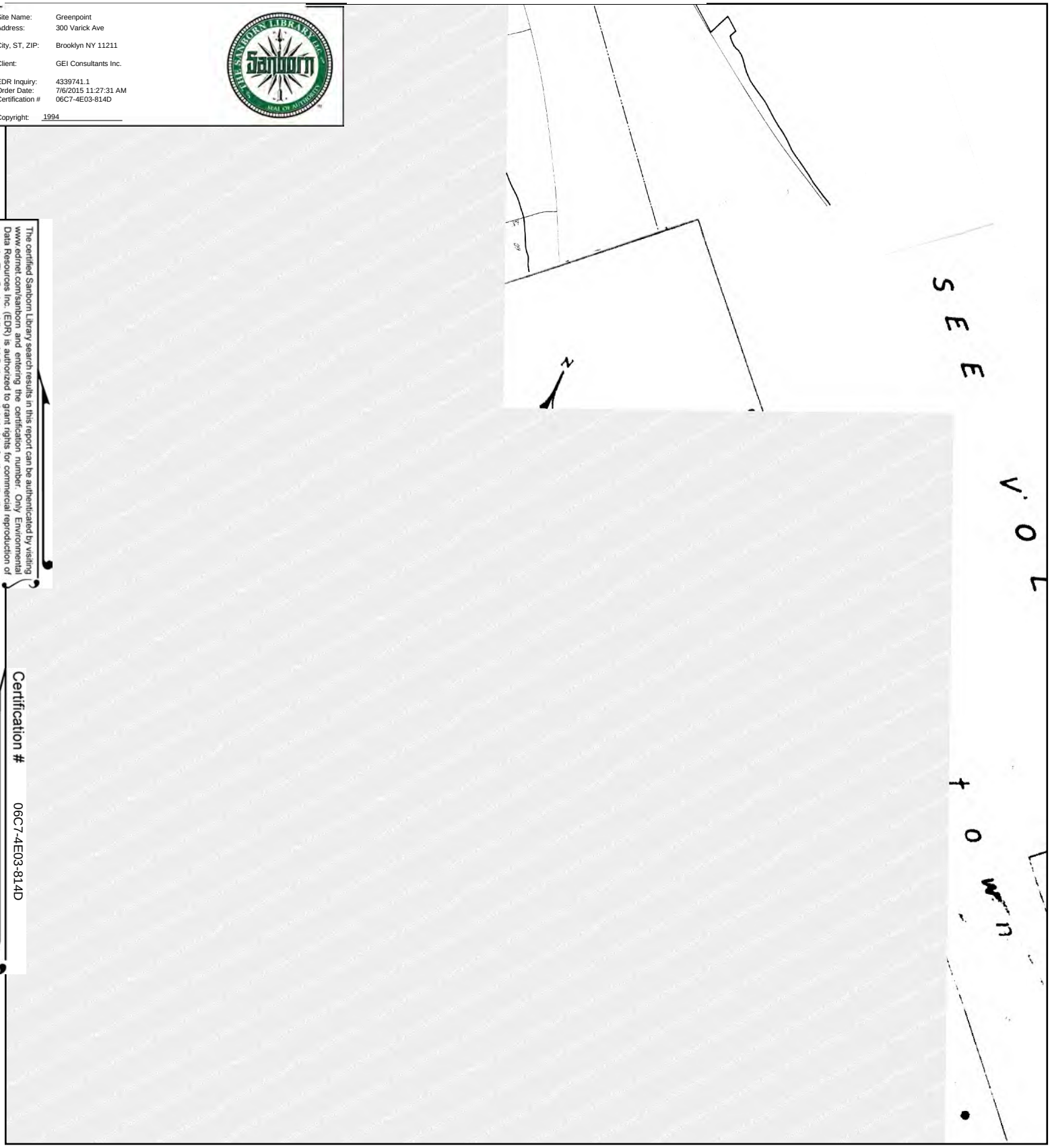

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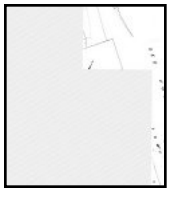

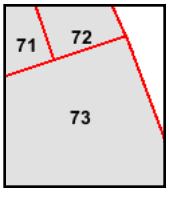

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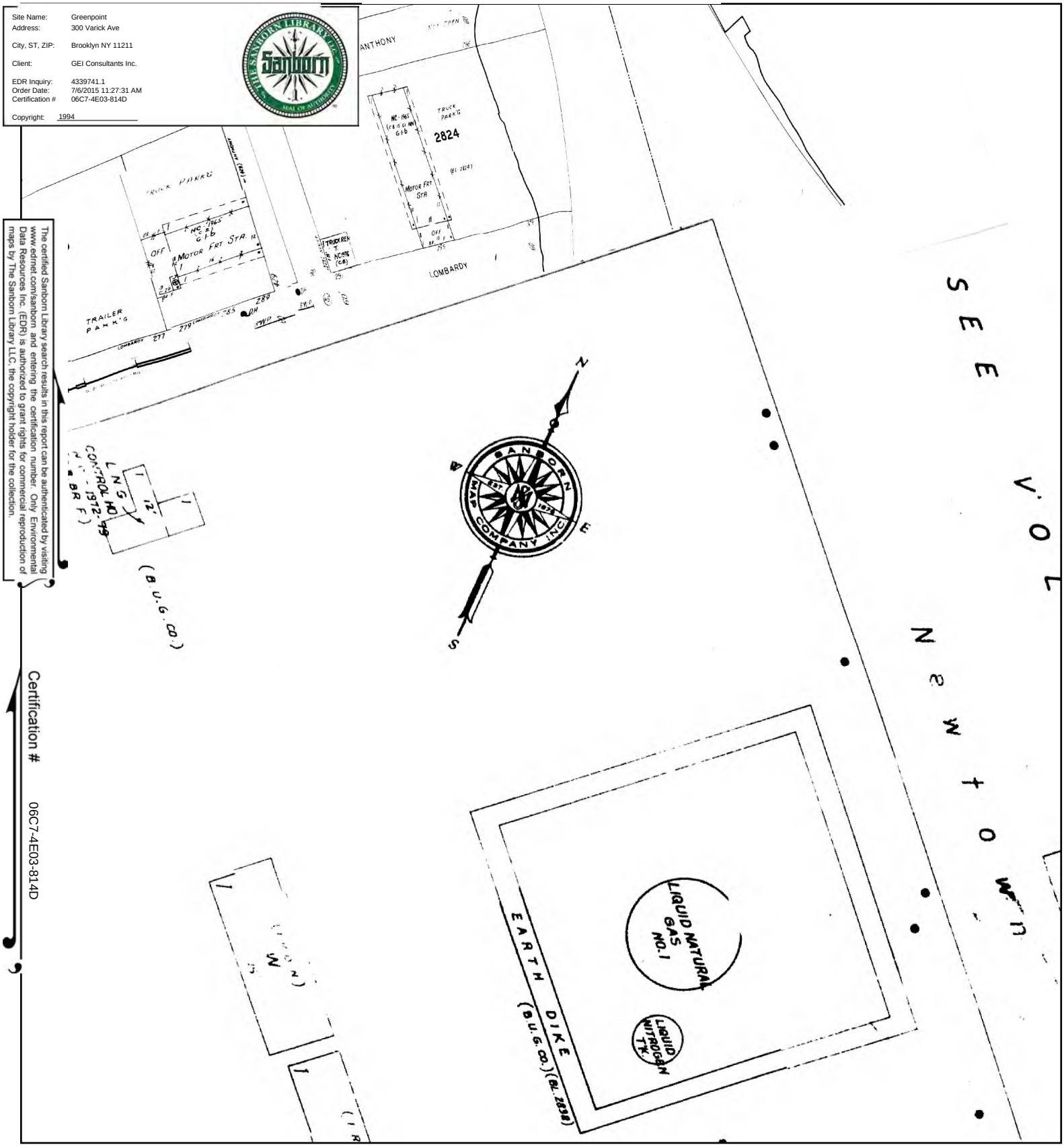

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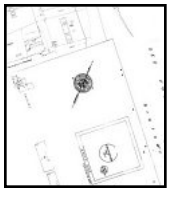

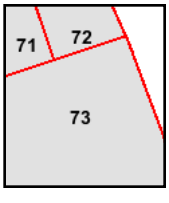

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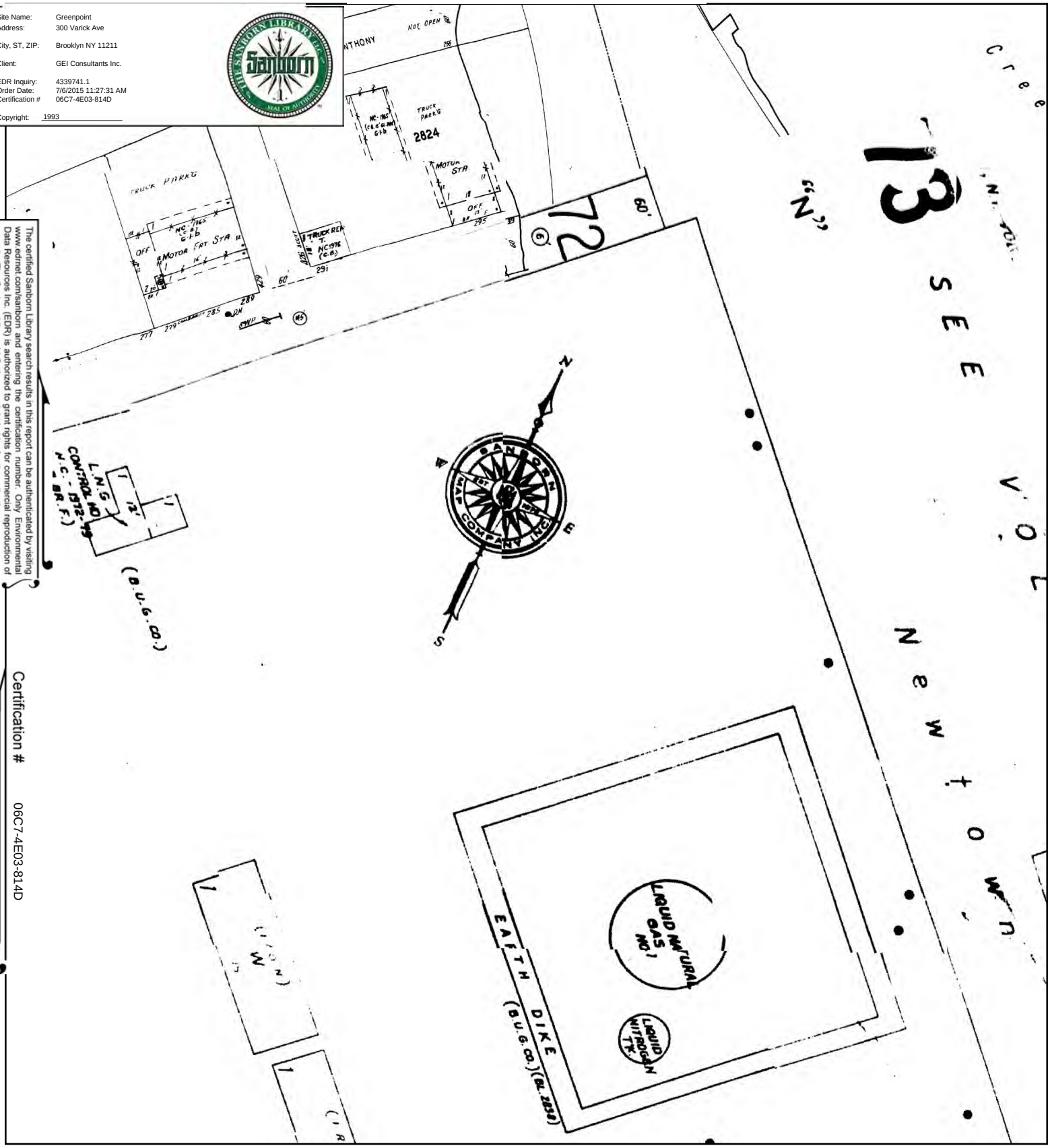

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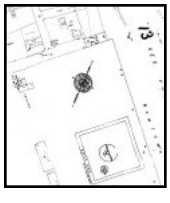

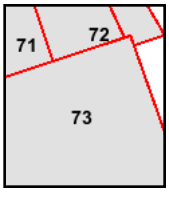

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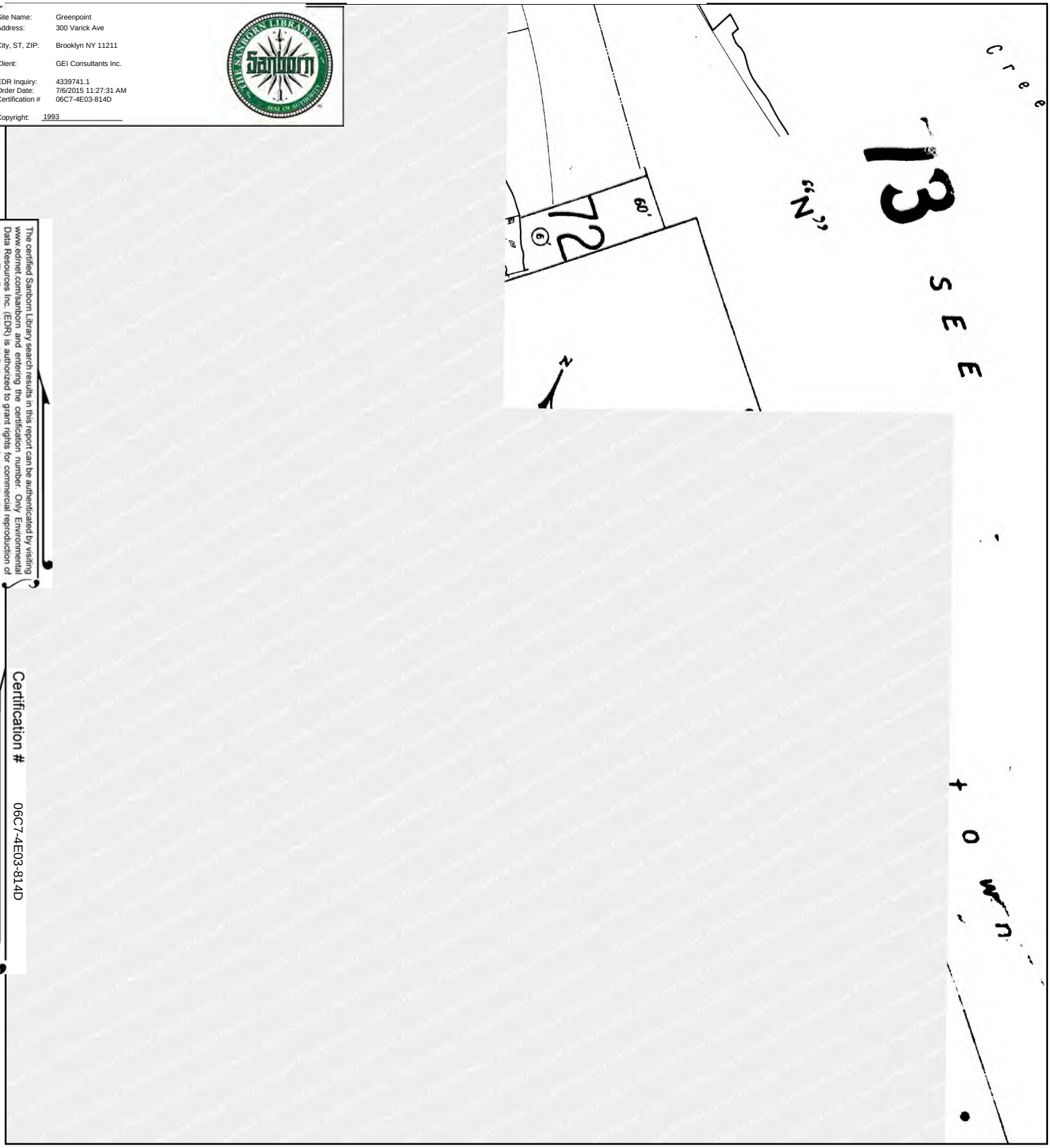

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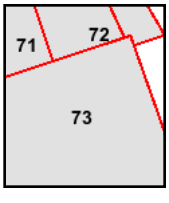

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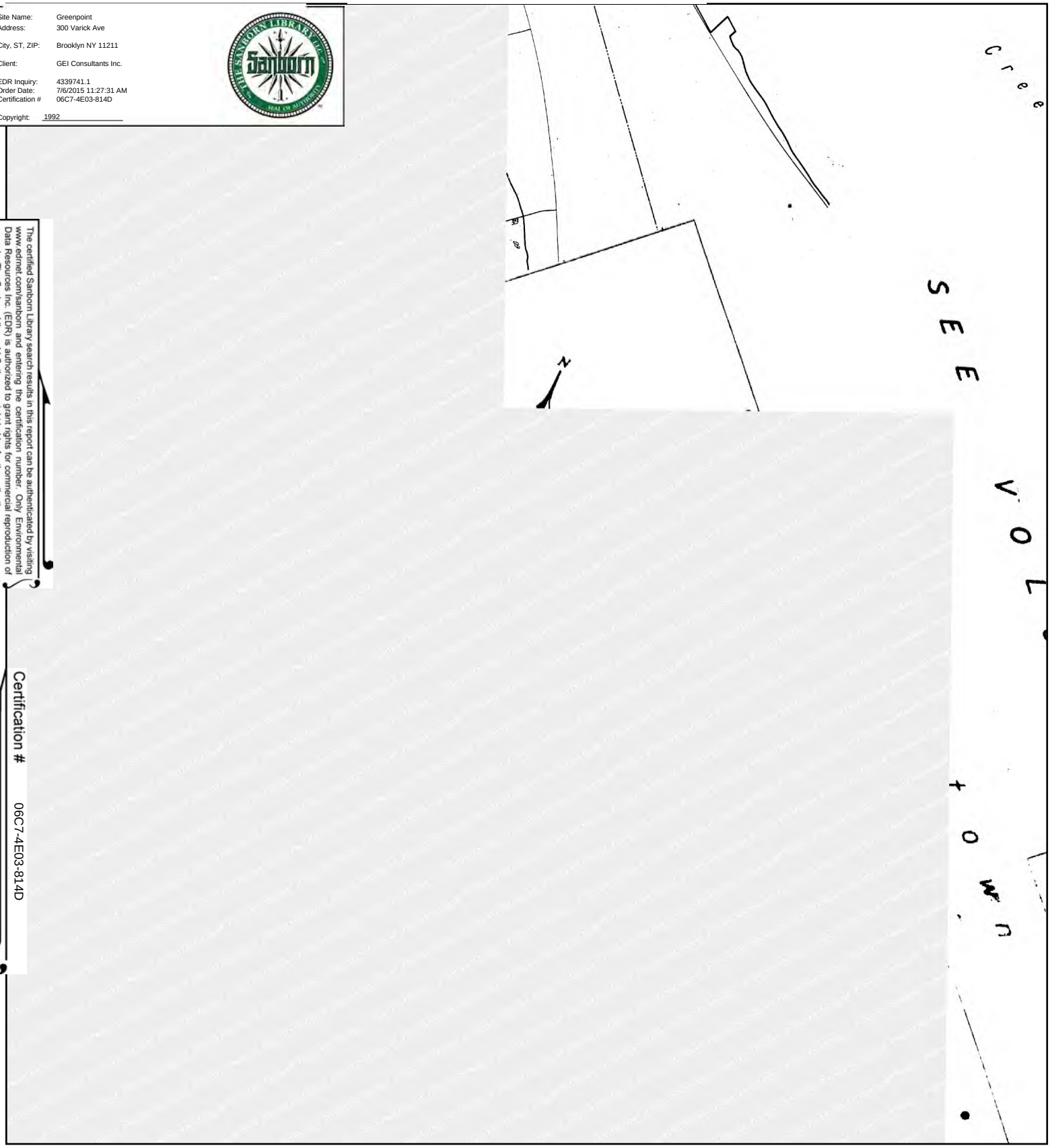

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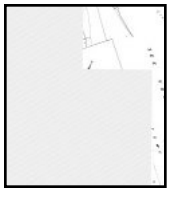

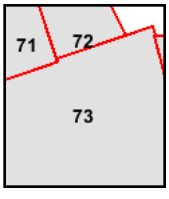

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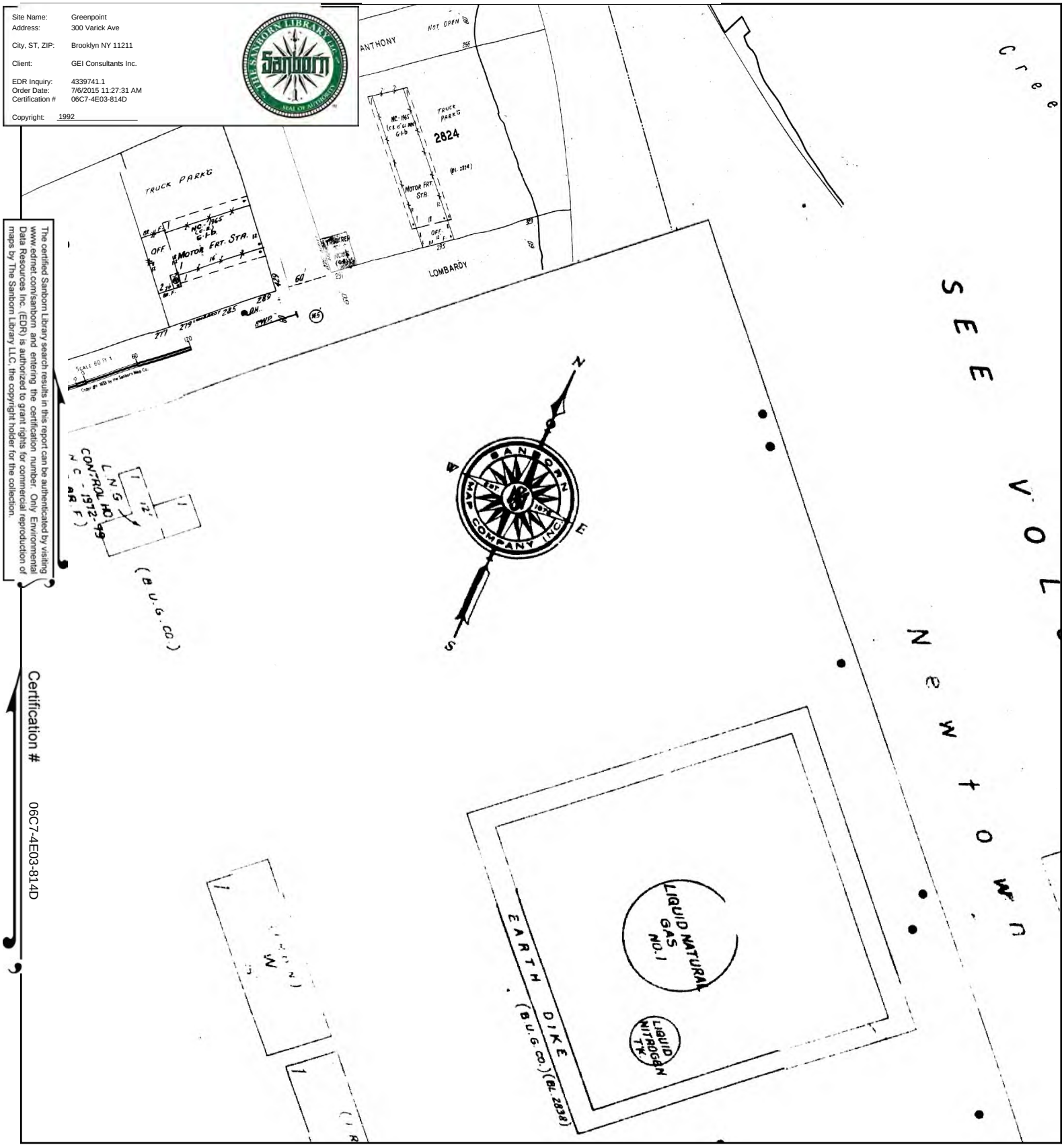

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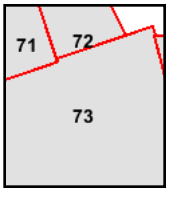

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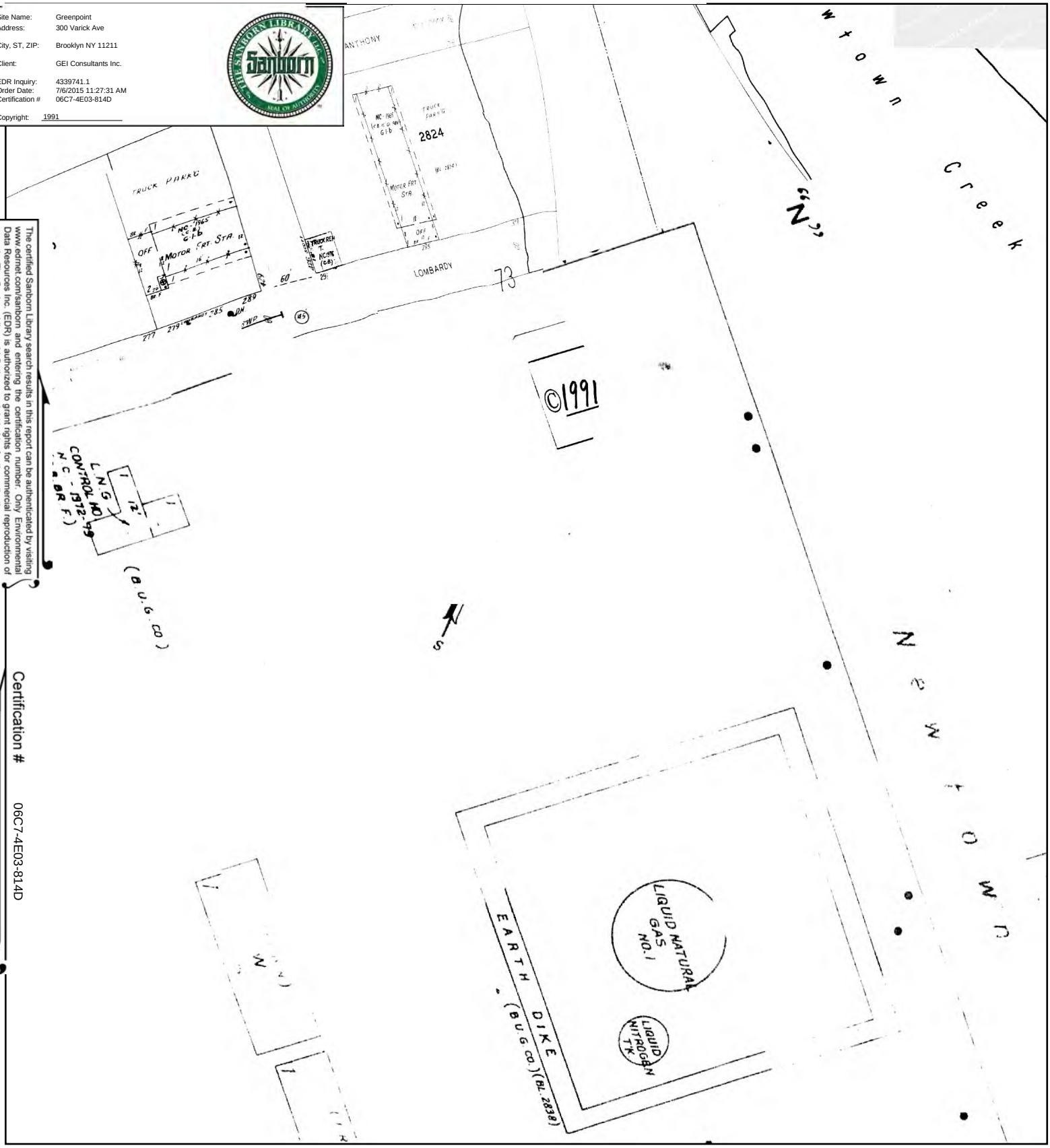

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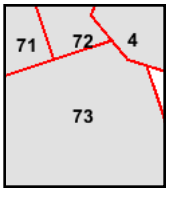

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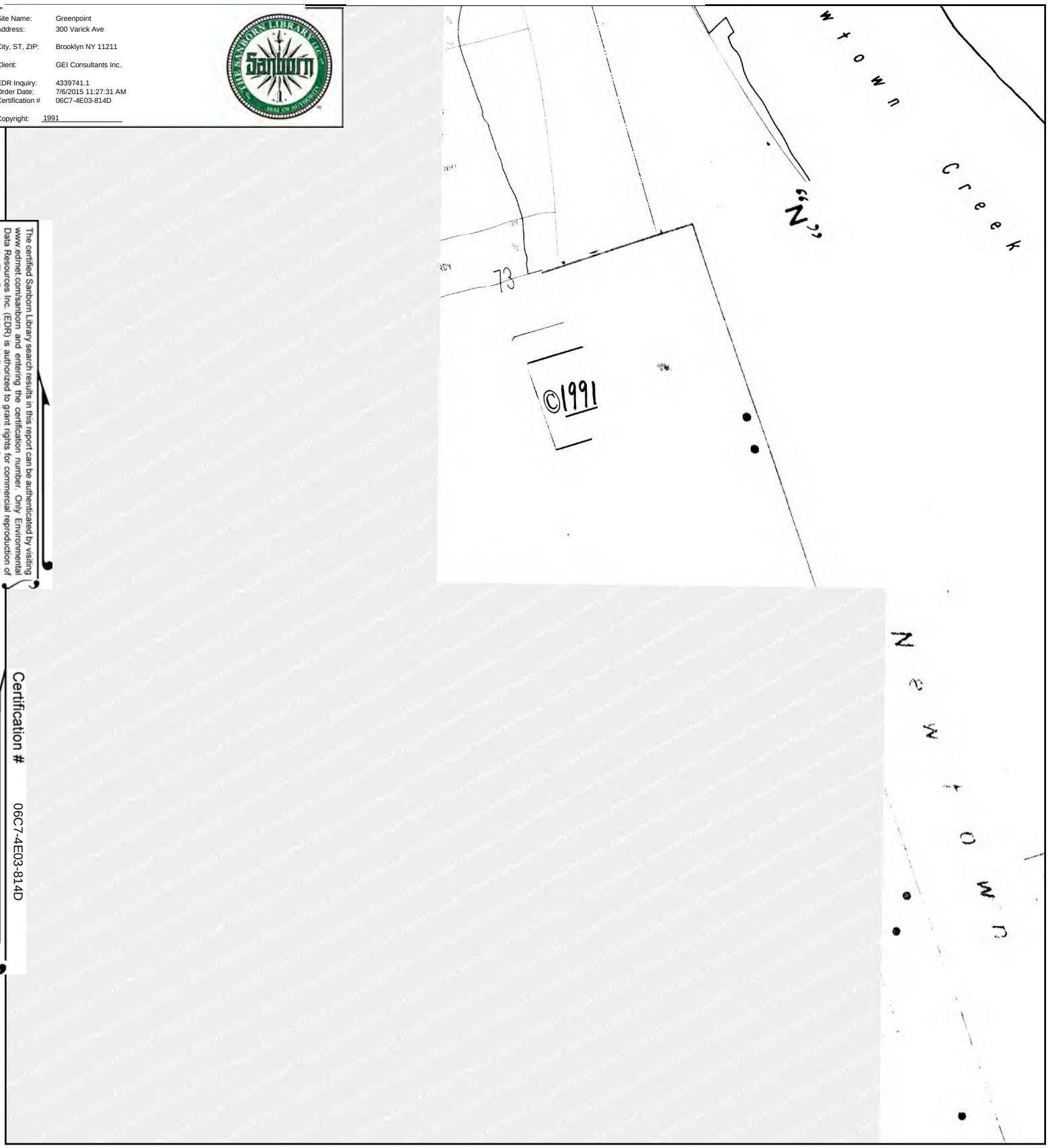

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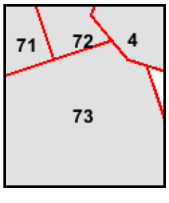

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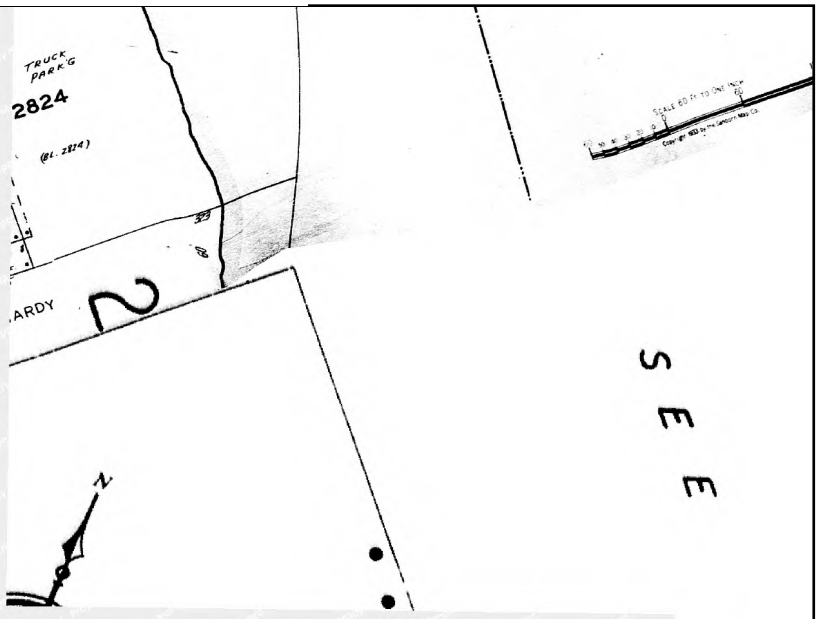

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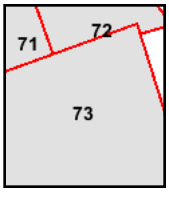

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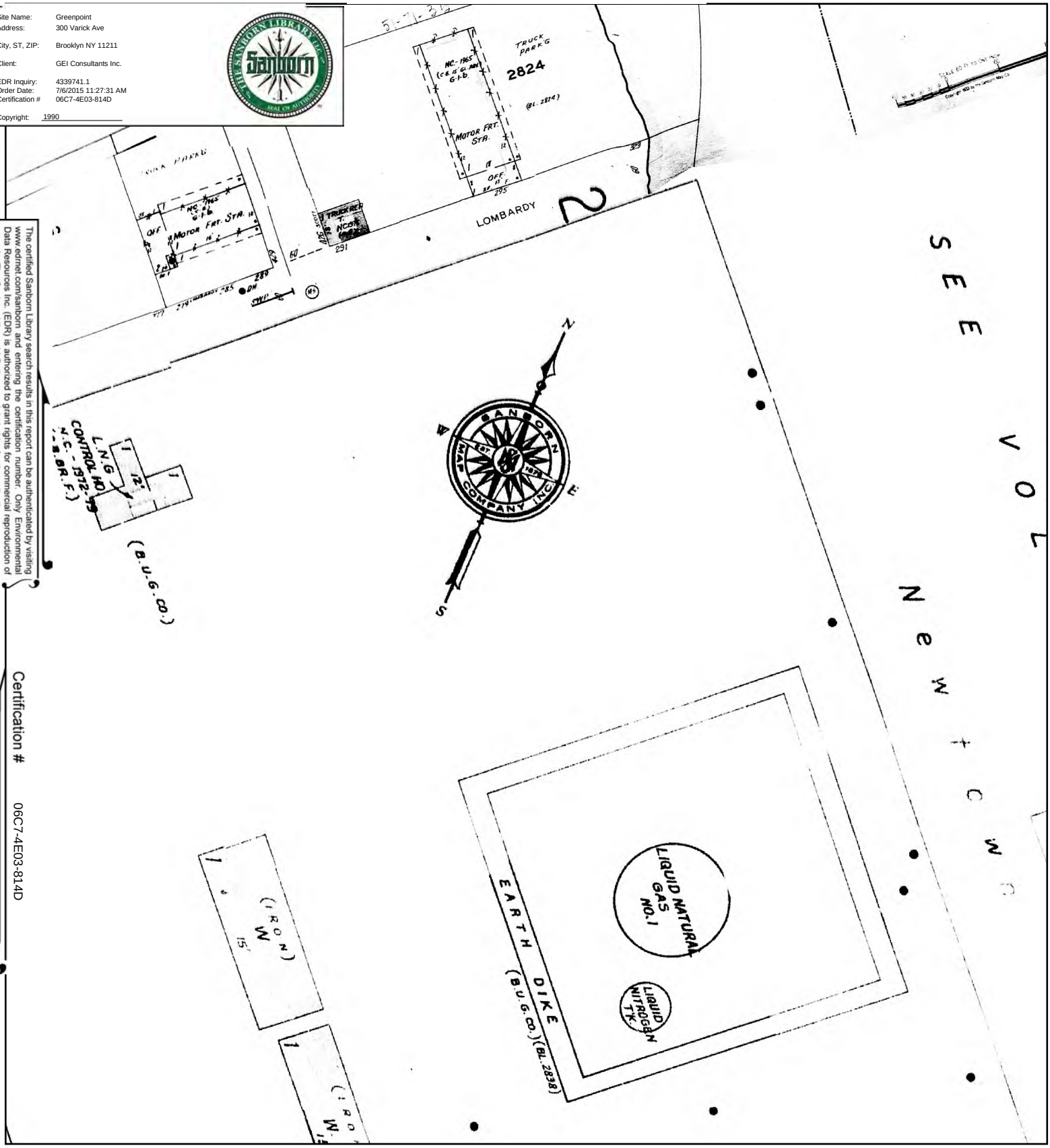

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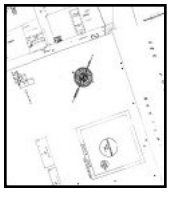

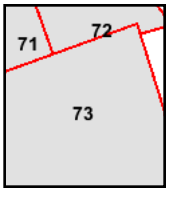

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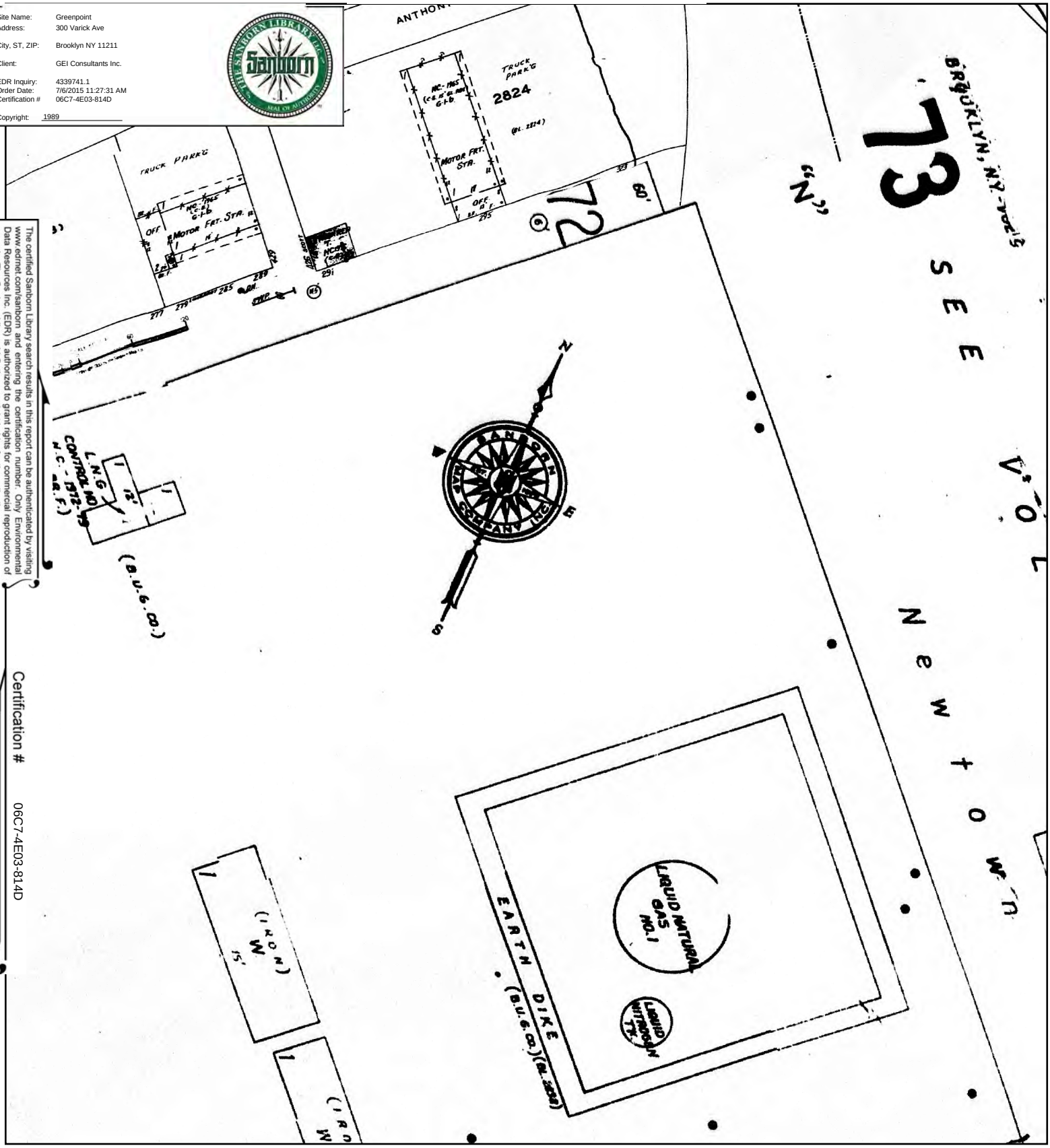

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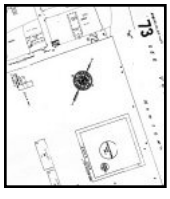

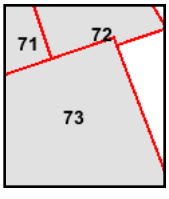

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1988 Certified Sanborn Map

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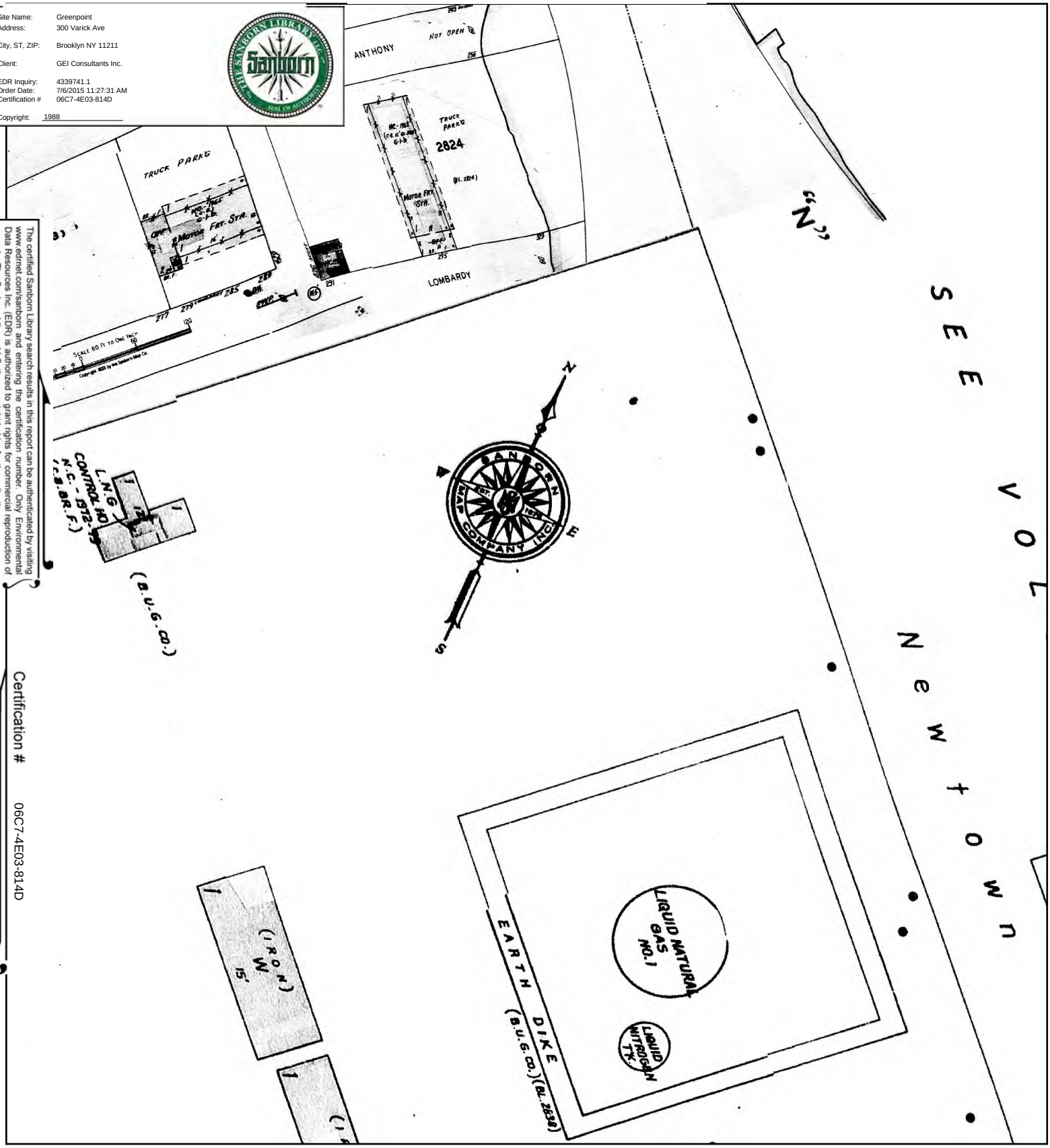

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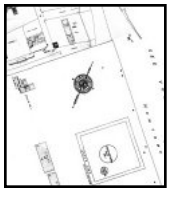

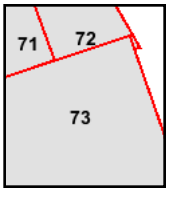

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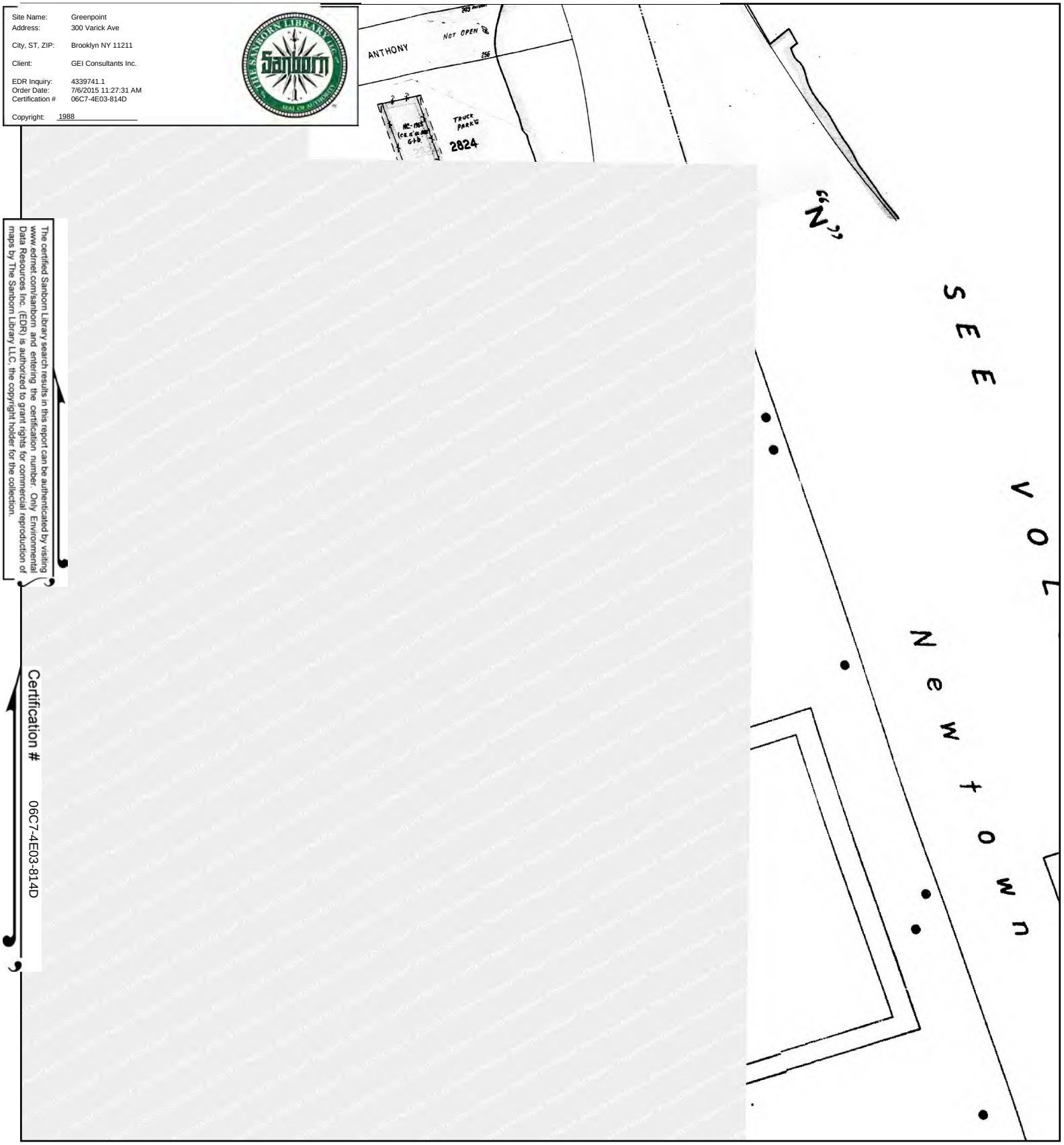

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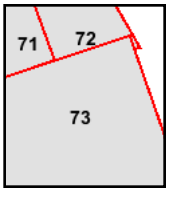

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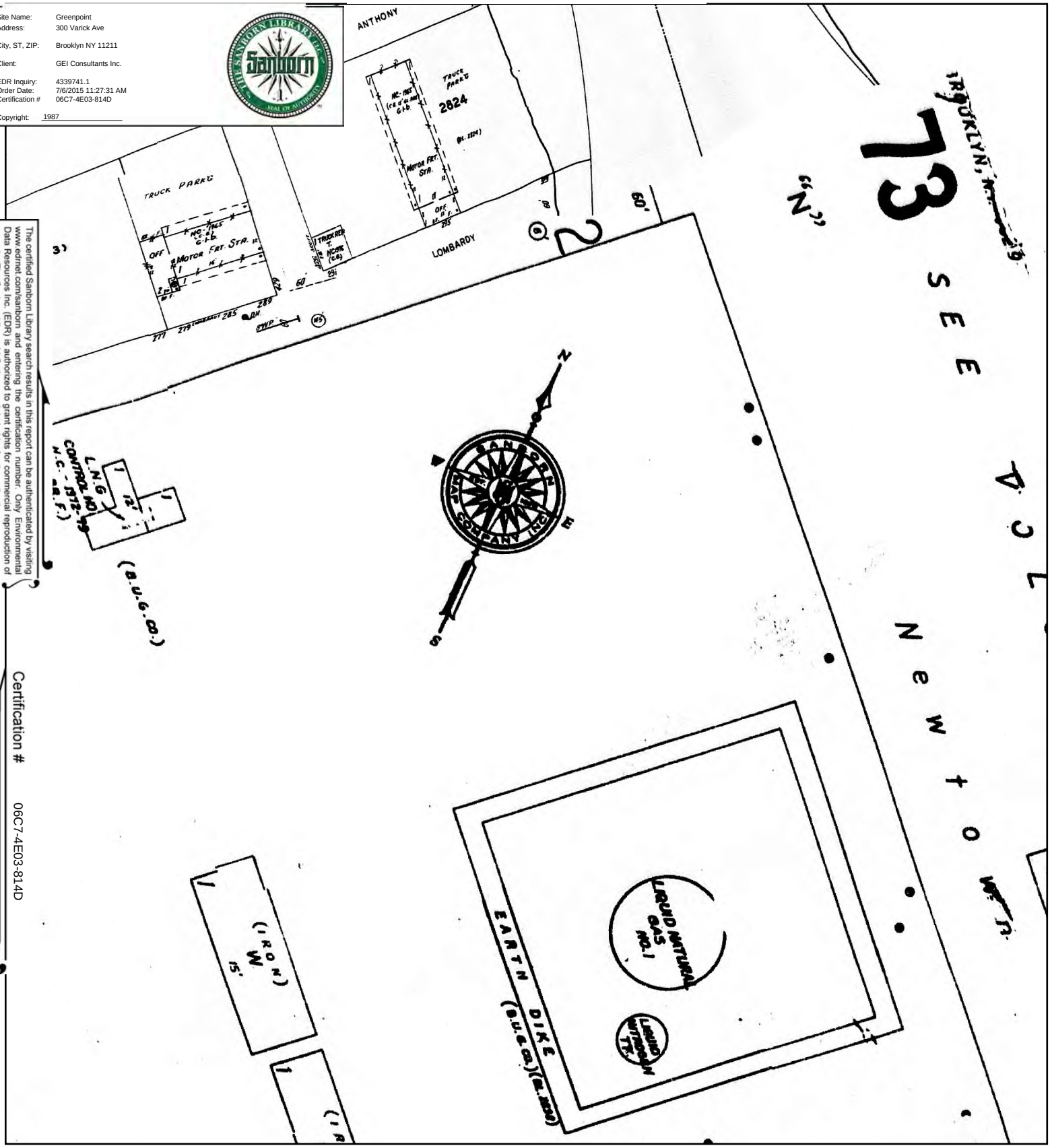

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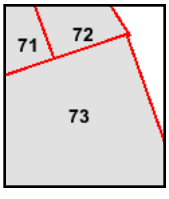

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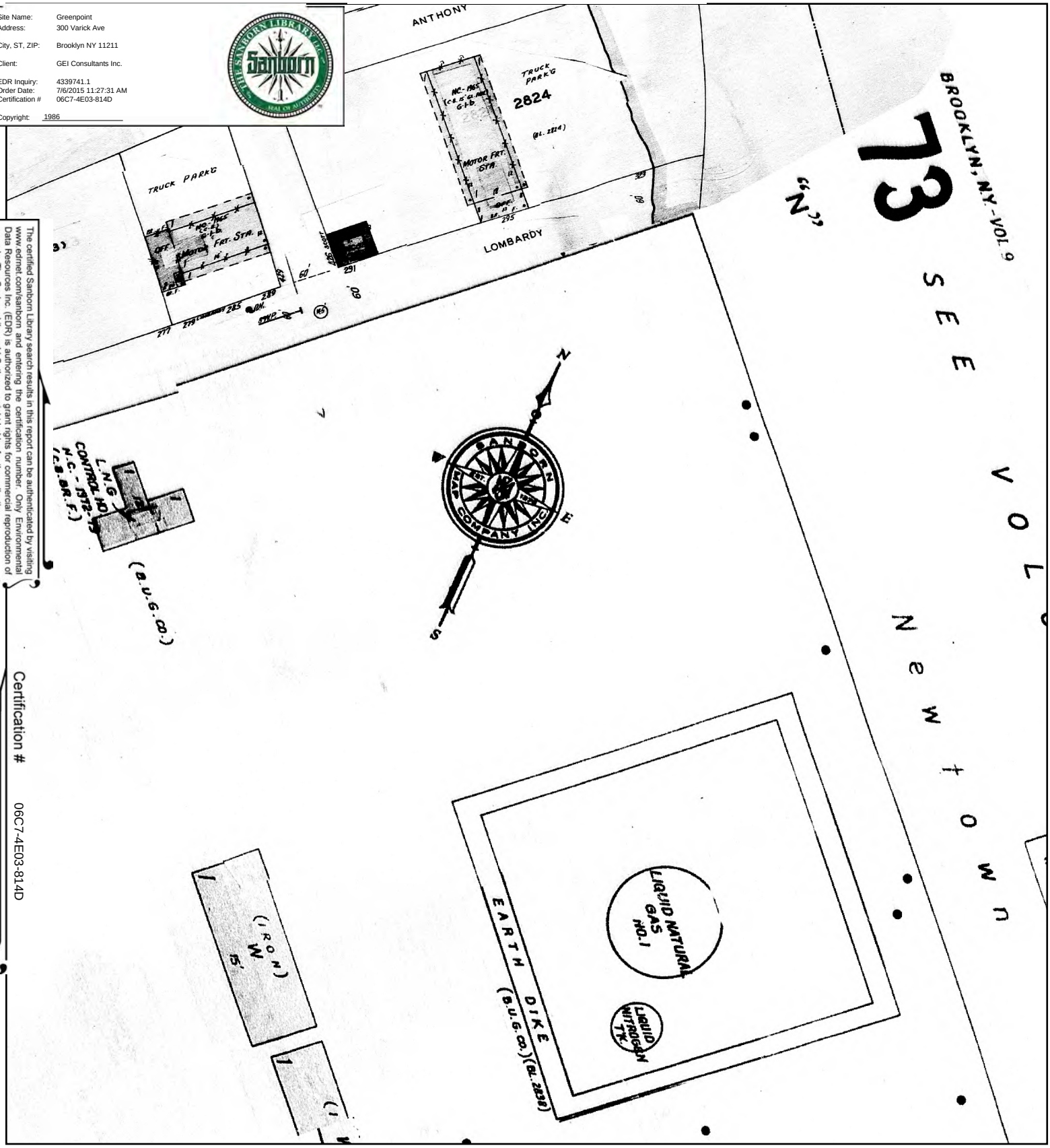

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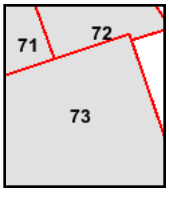

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1986 Certified Sanborn Map

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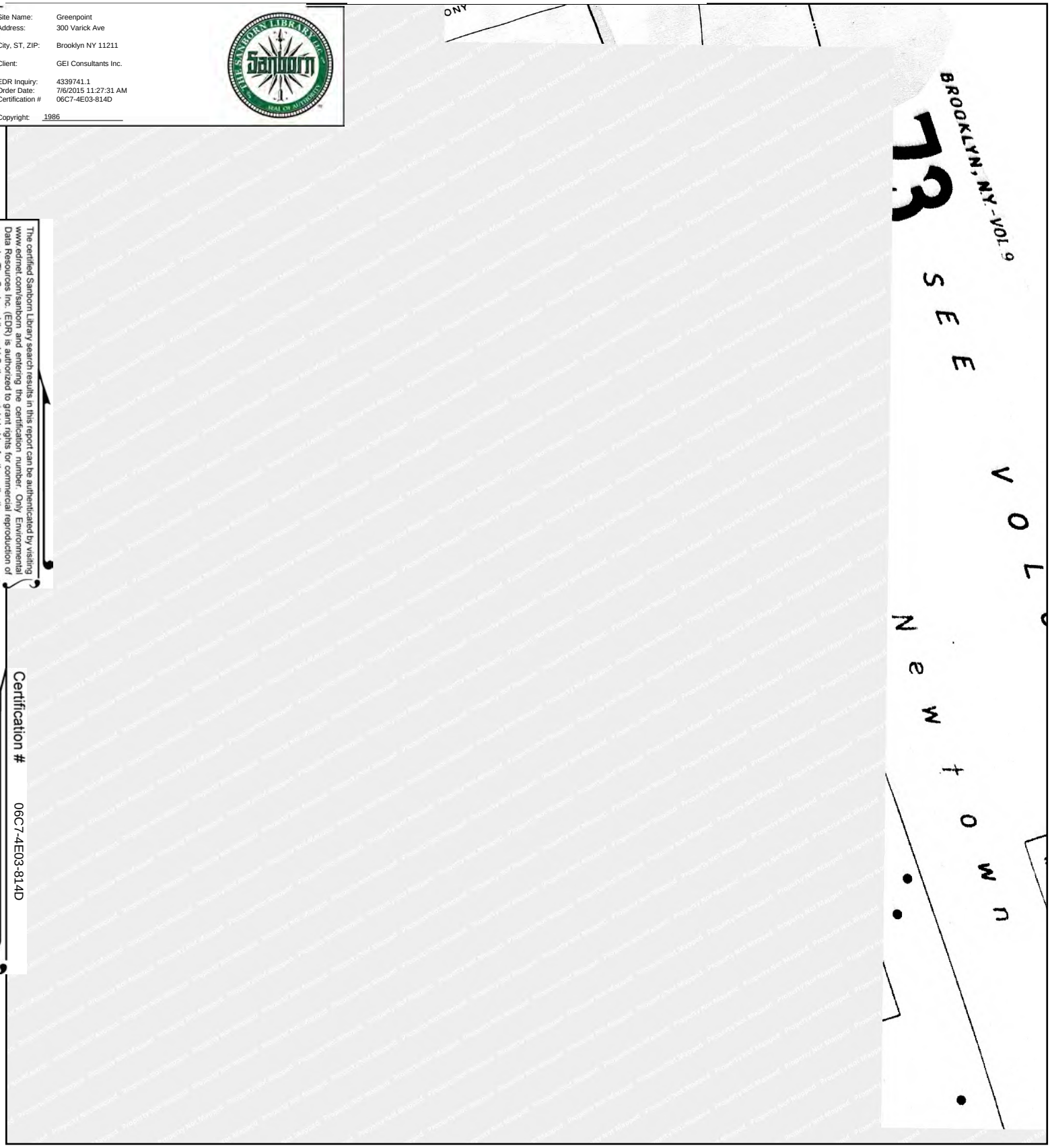

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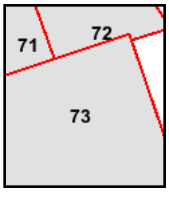

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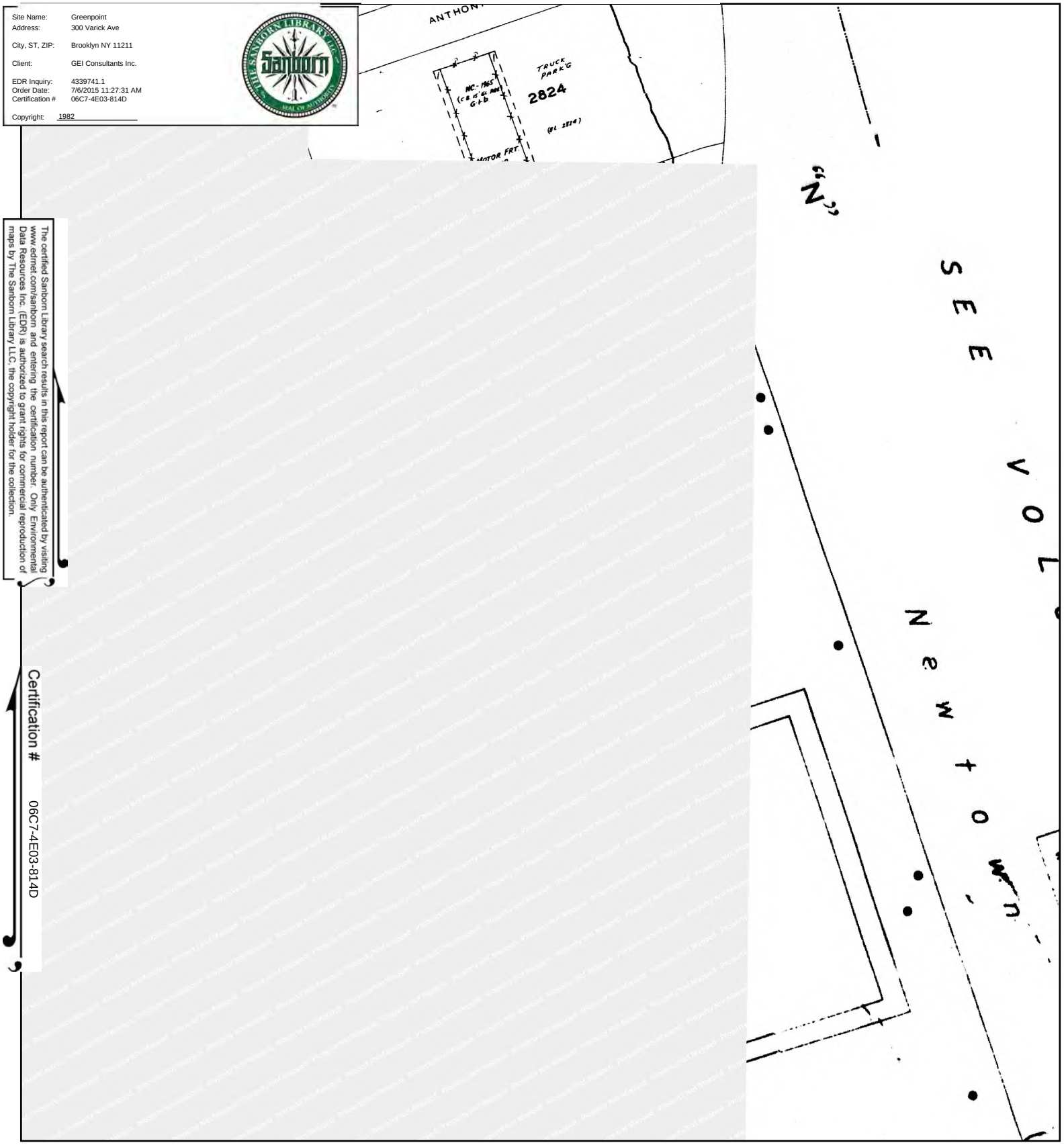

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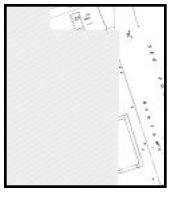

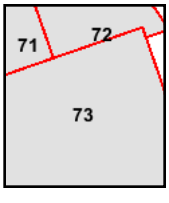

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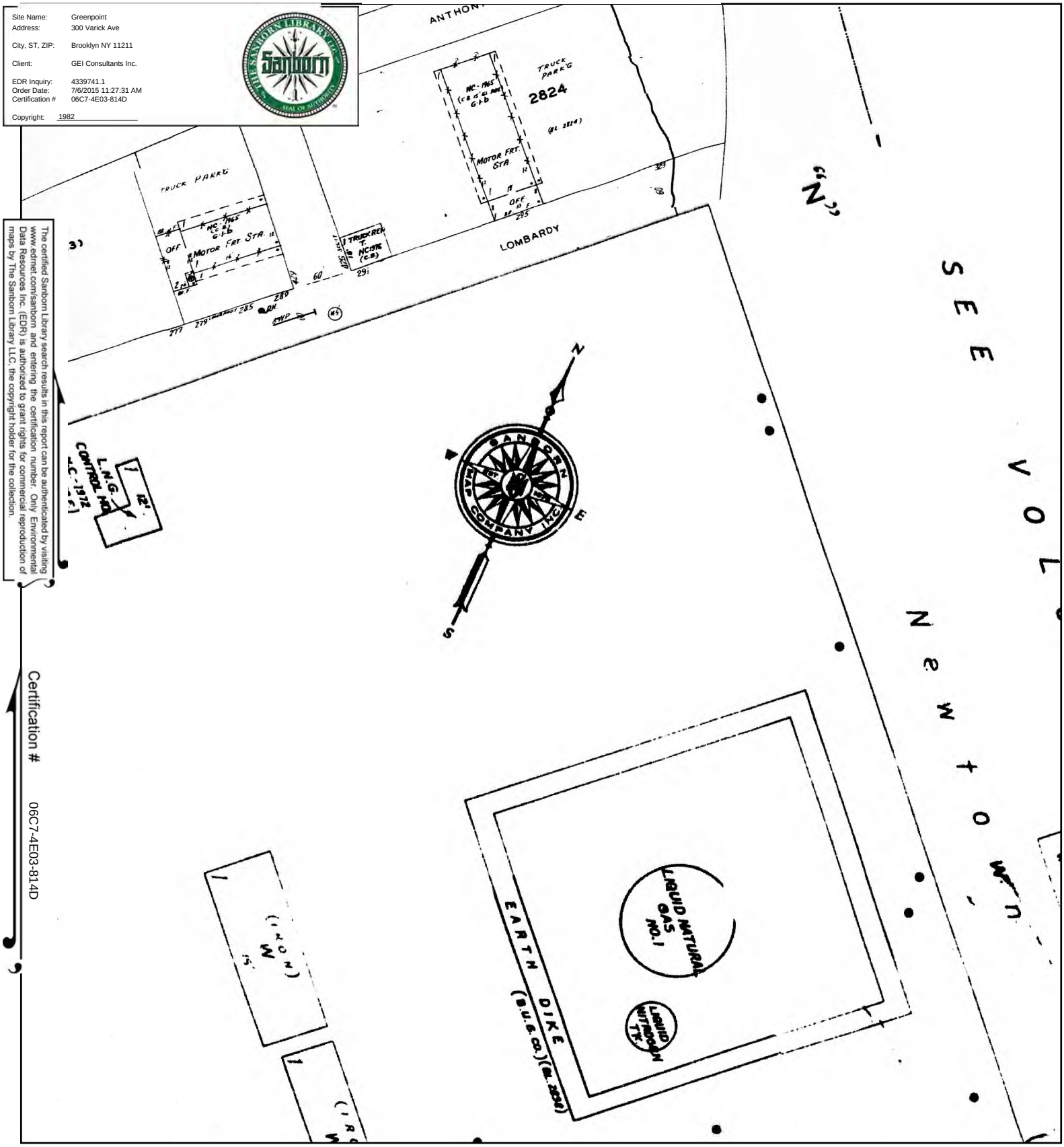

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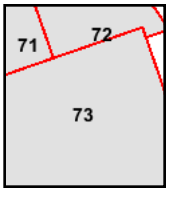

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1981 Certified Sanborn Map

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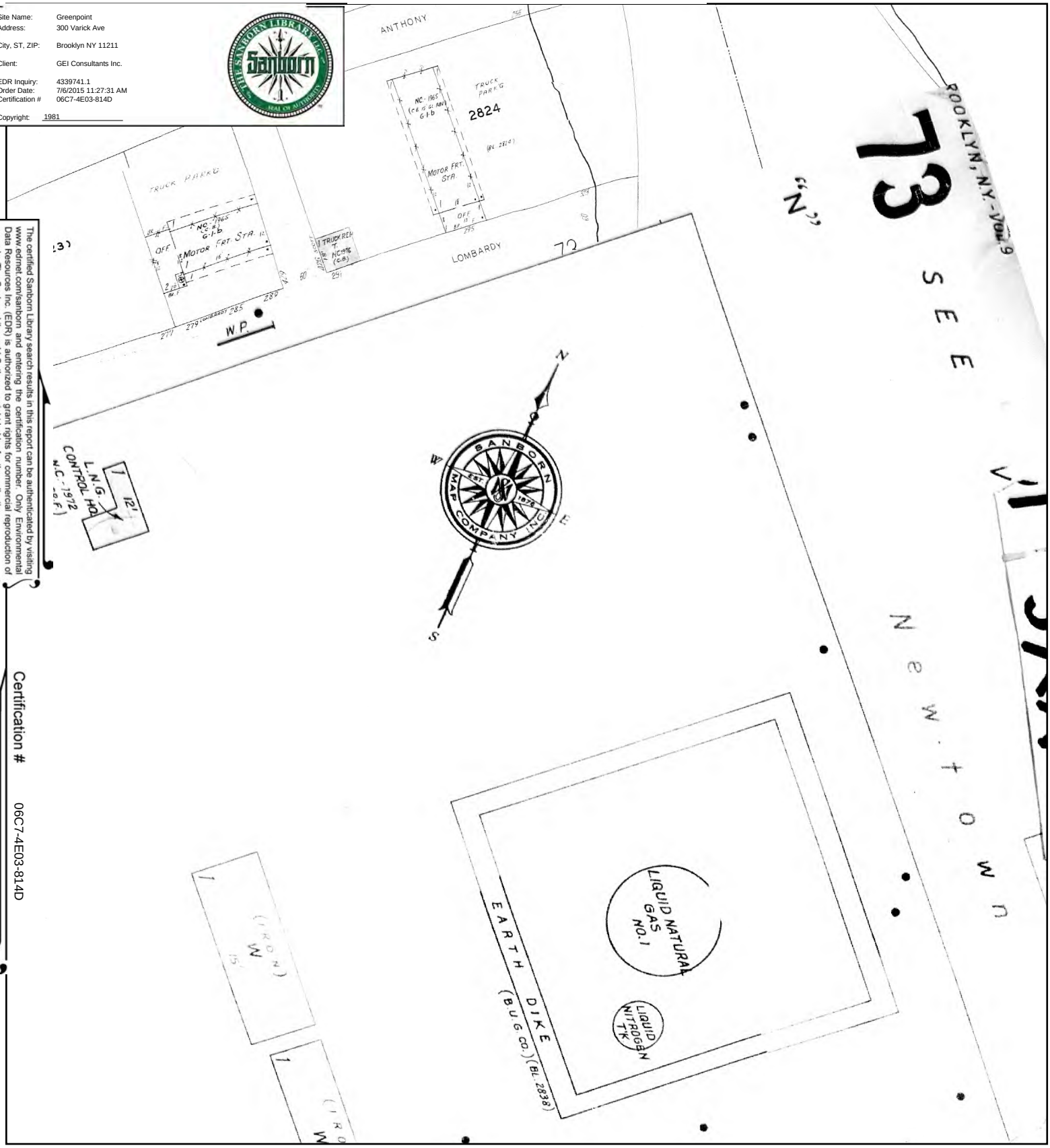

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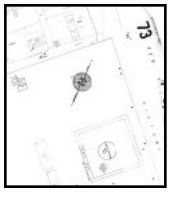

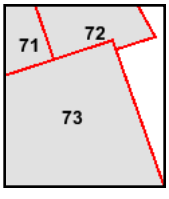

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0 Feet 165 330 660

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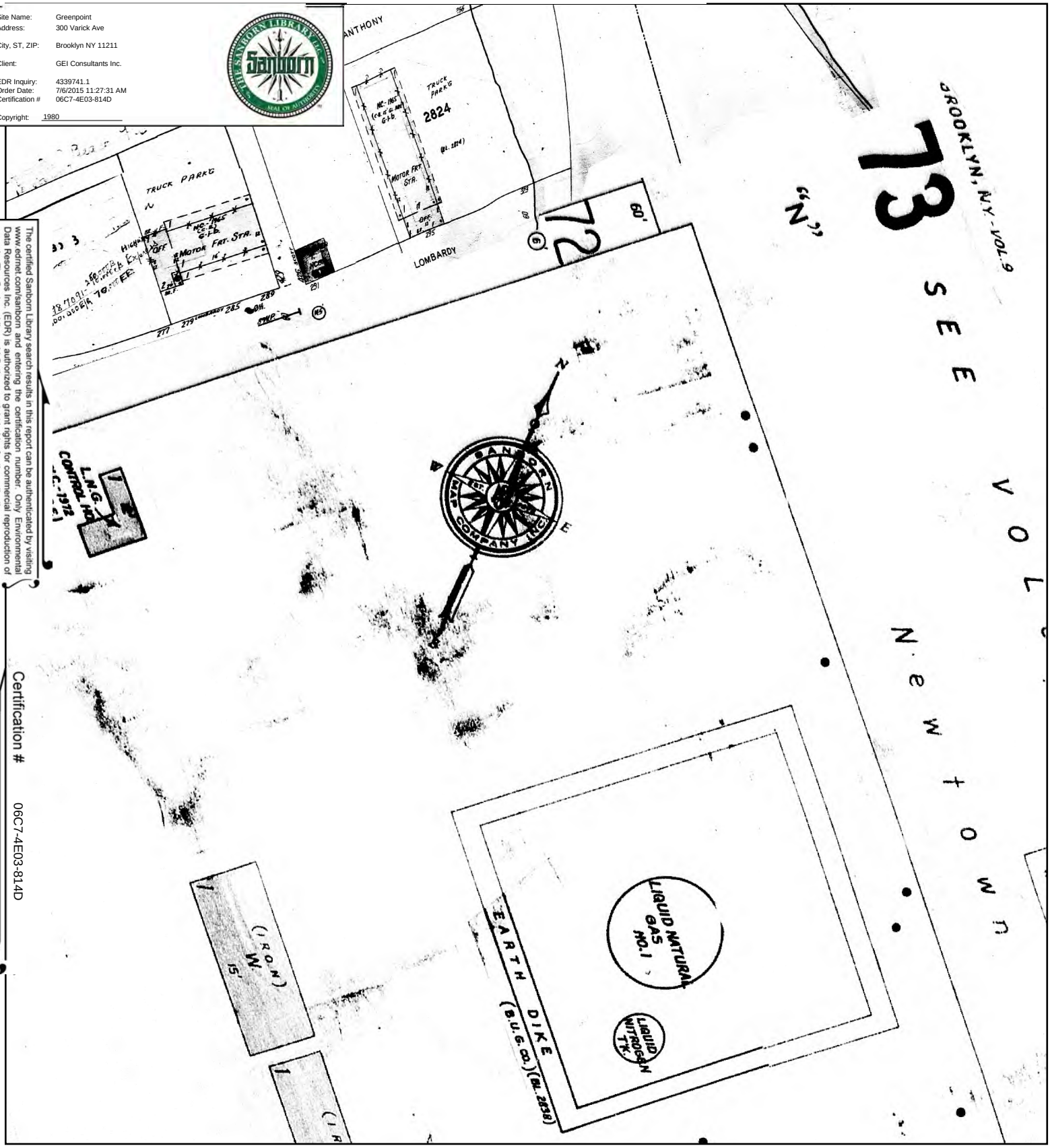

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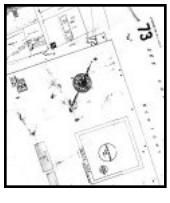

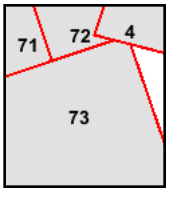

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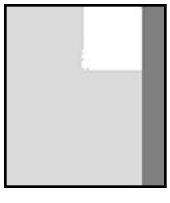

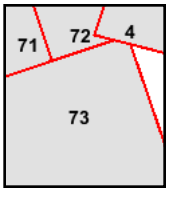

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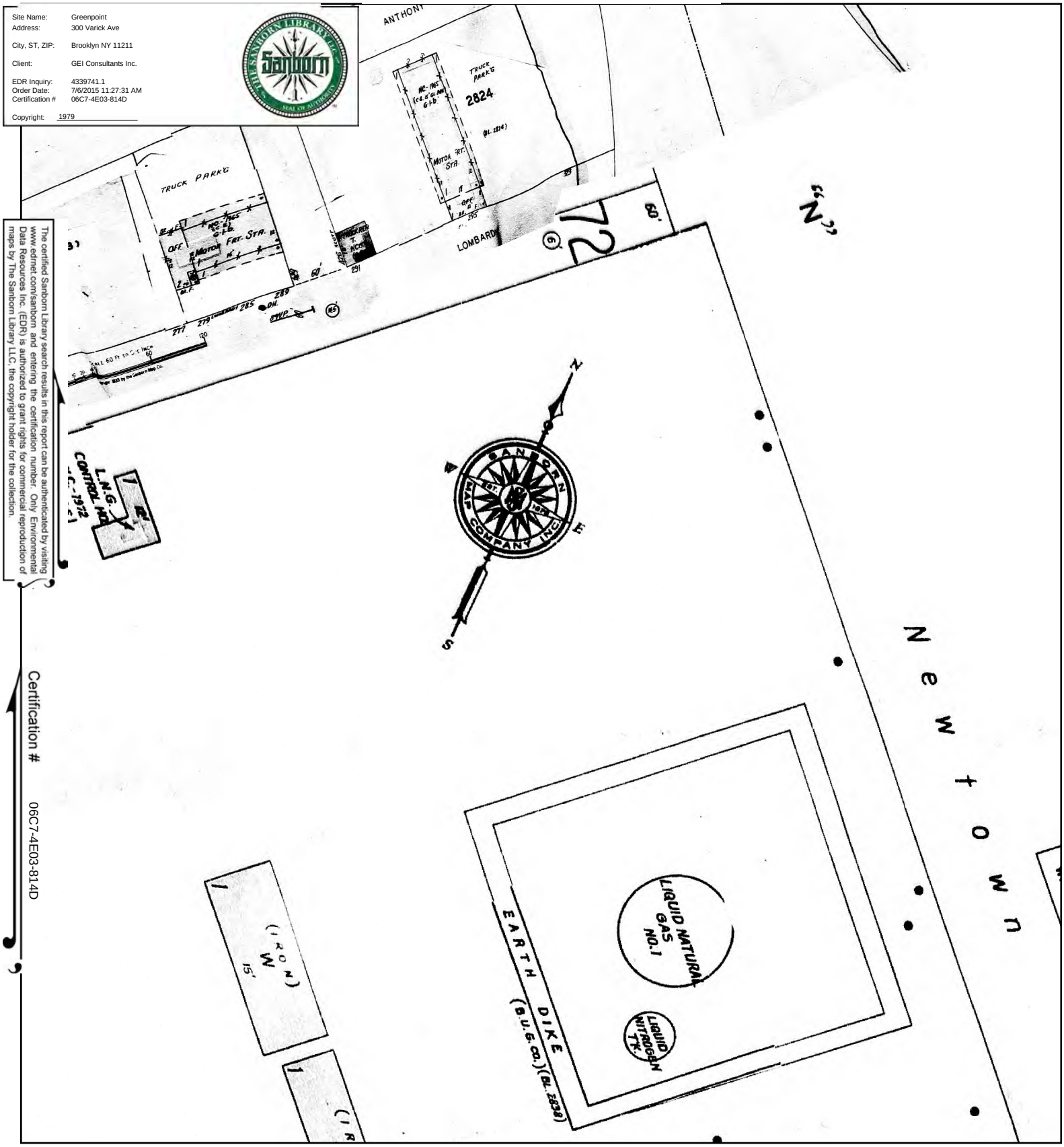

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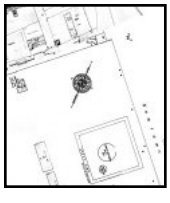

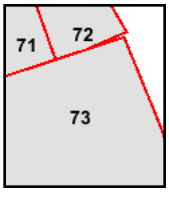

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1977 Certified Sanborn Map

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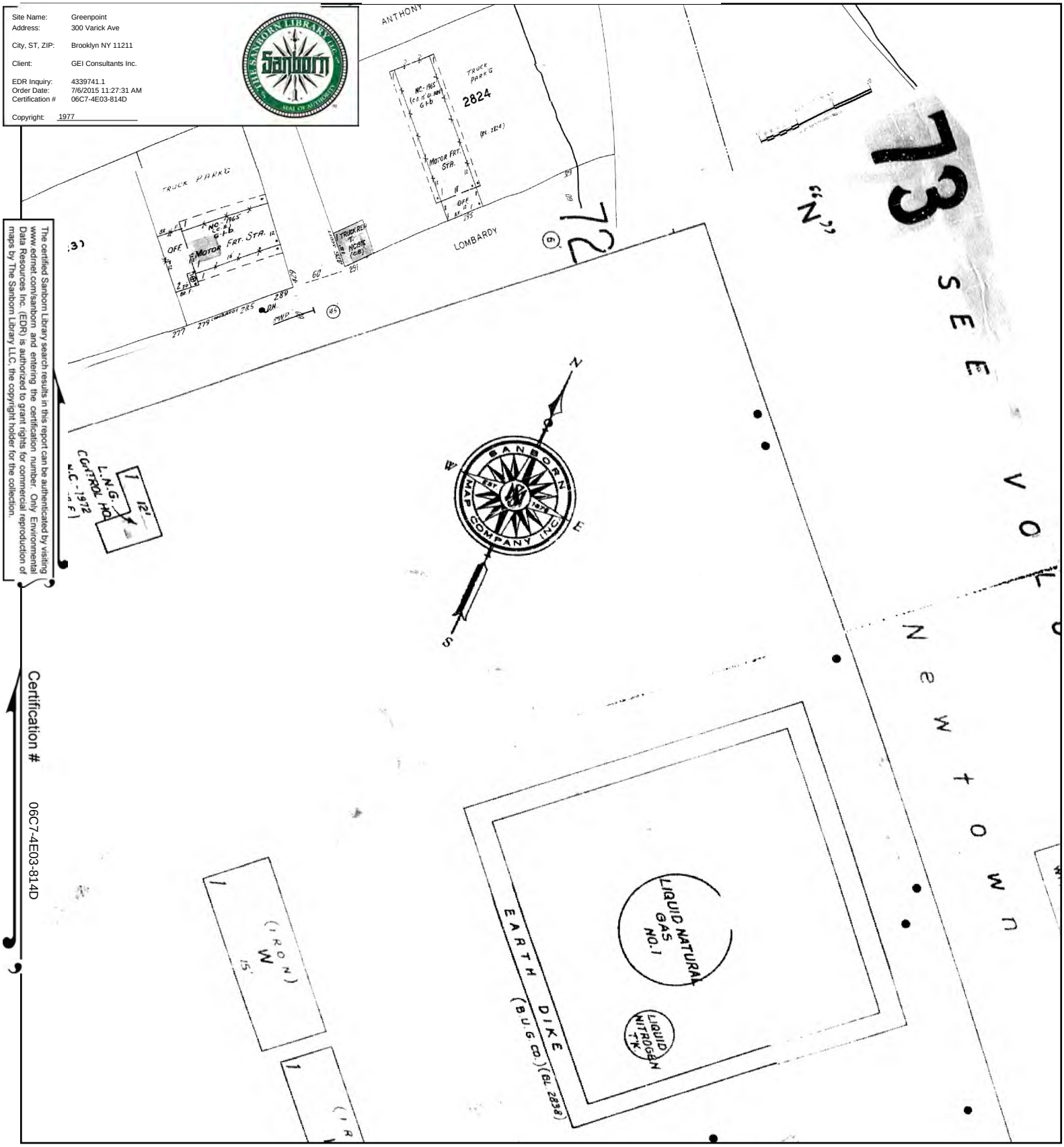

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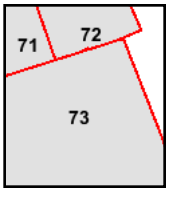

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1971 Certified Sanborn Map

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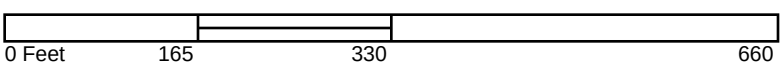

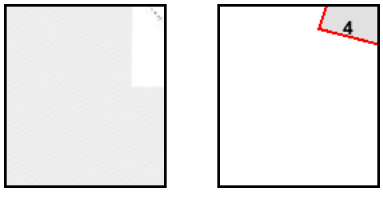

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1968 Certified Sanborn Map

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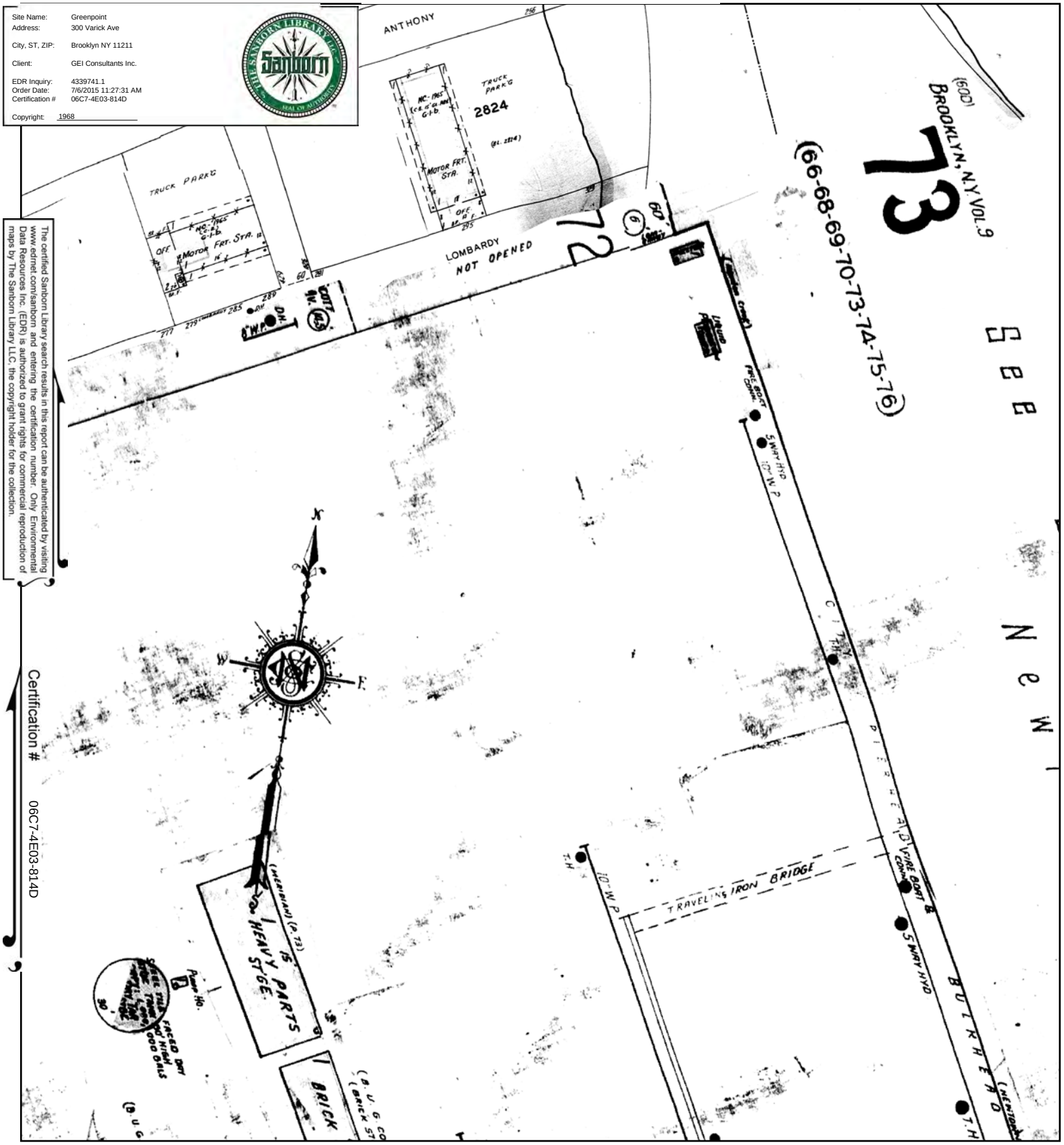

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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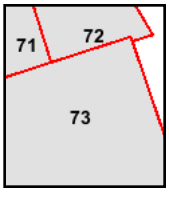

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Volume 9, Sheet 73

N

1965 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1965

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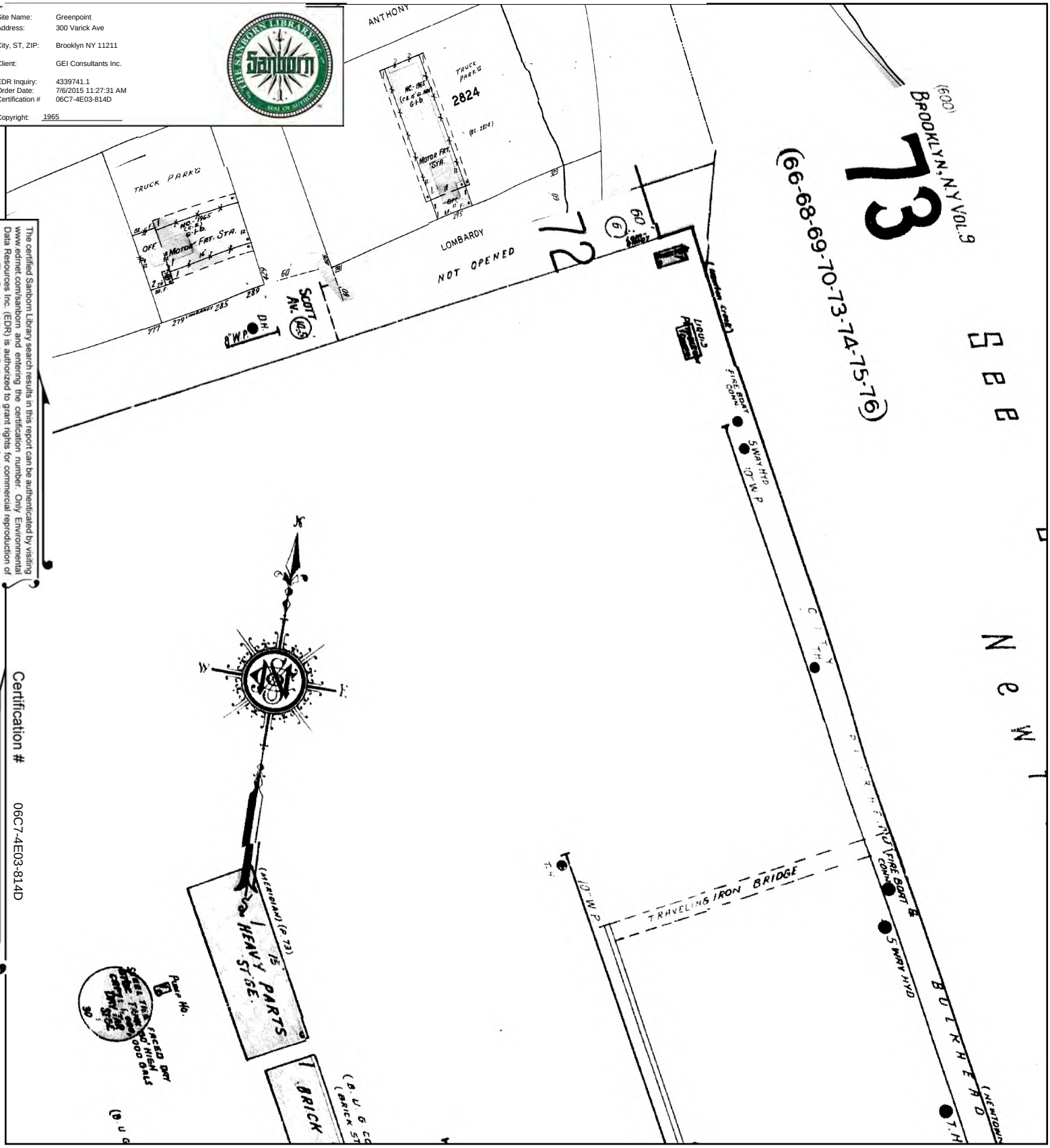
Certification # 06C7-4E03-814D



This Certified Sanborn Map combines the following sheets.
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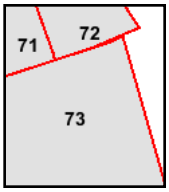

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N

1951 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1951

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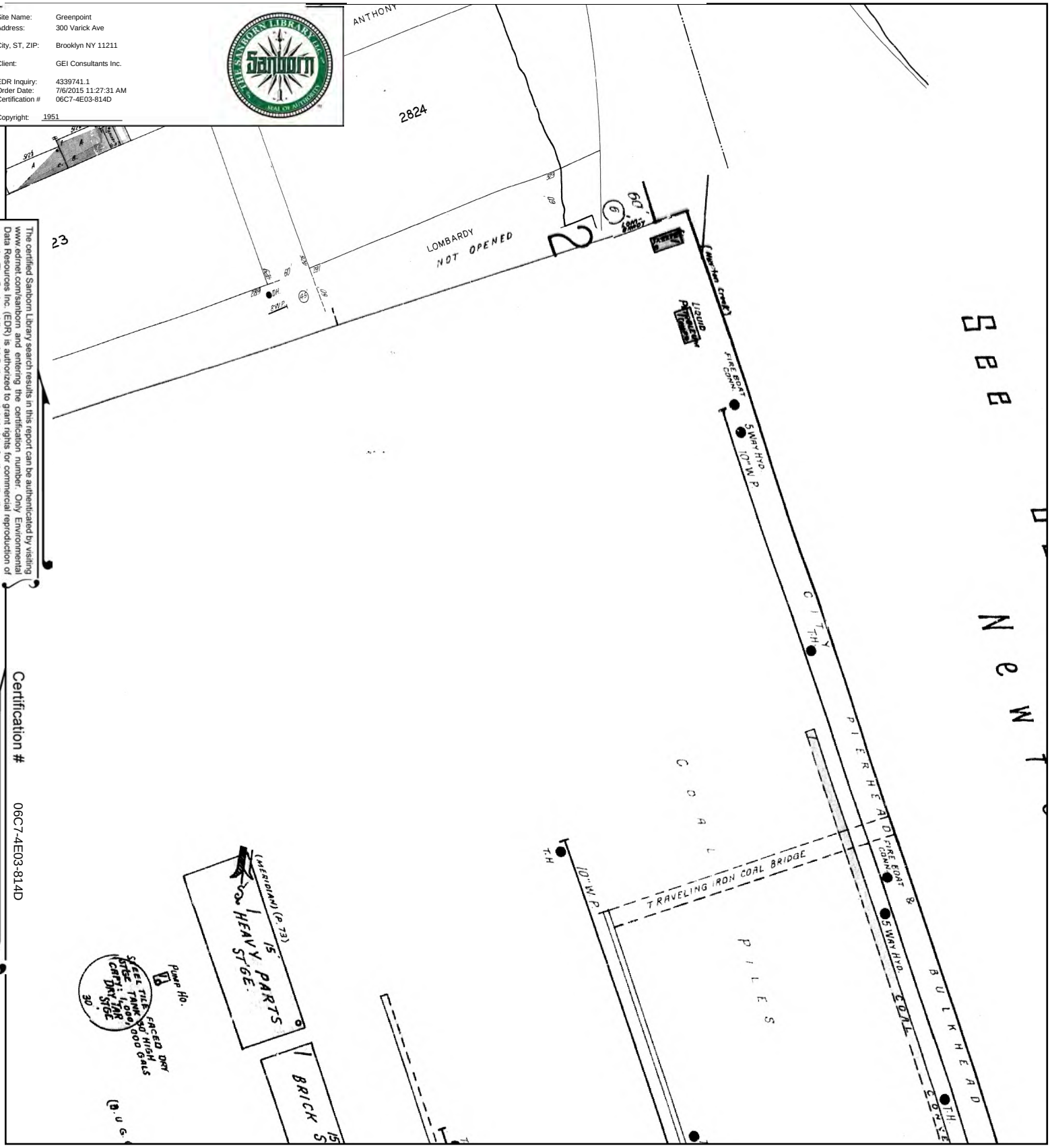
Certification # 06C7-4E03-814D



This Certified Sanborn Map combines the following sheets.
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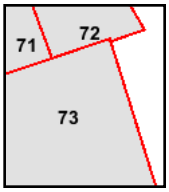

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N

1933 Certified Sanborn Map

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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1933

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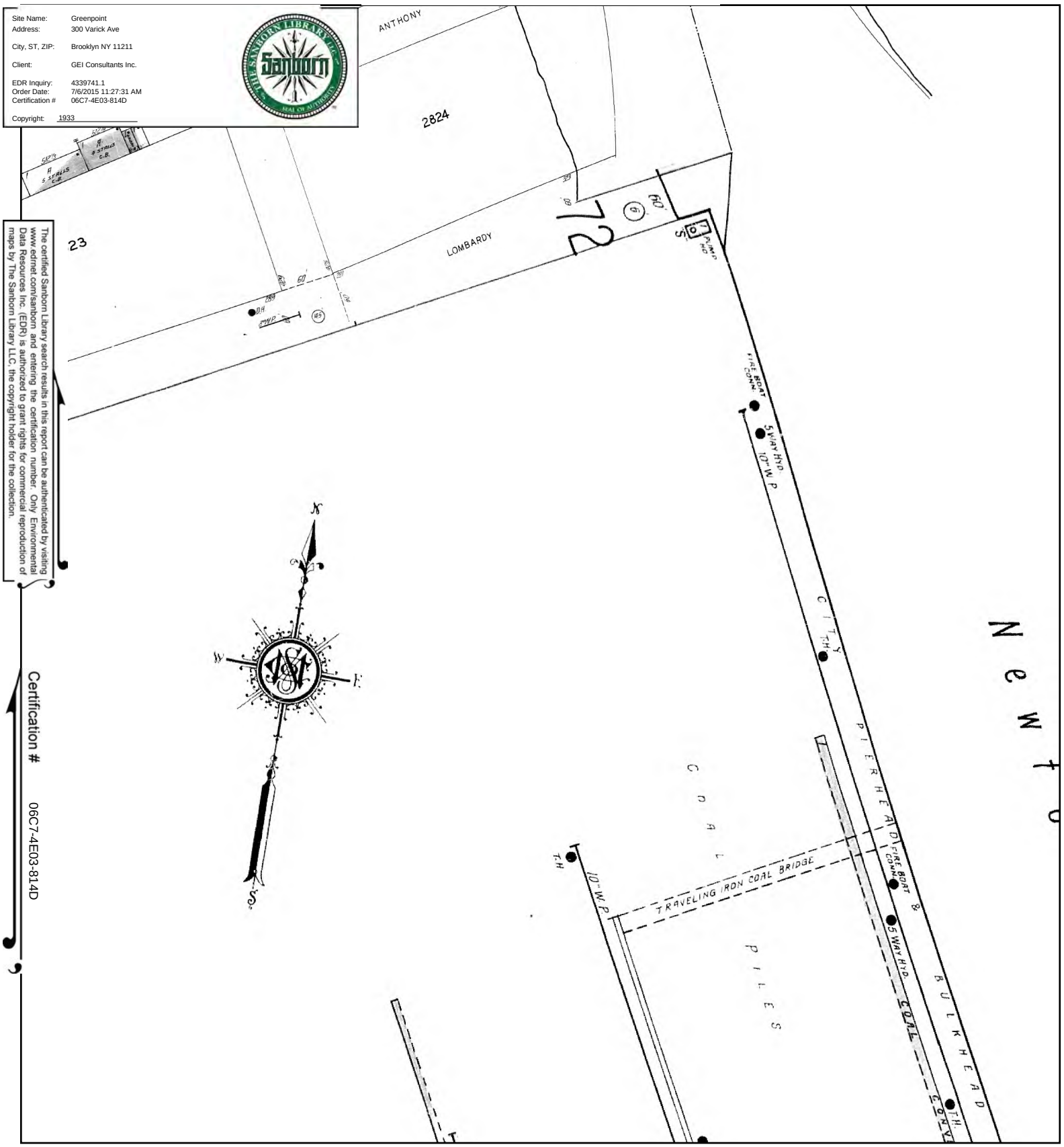
Certification # 06C7-4E03-814D



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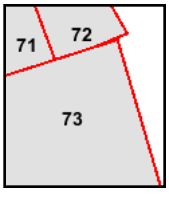

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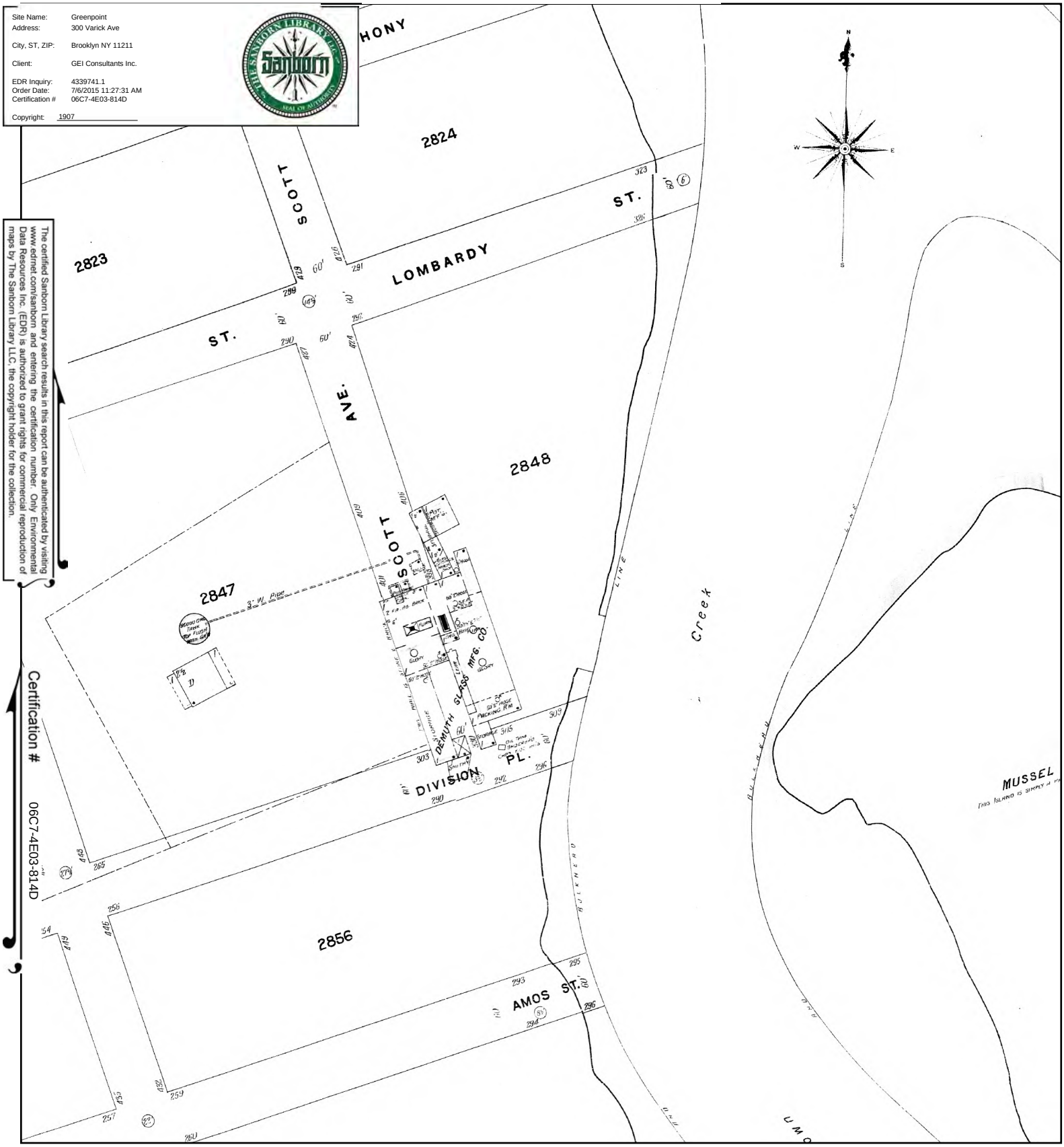
N

1907 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1907



Certification # 06C7-4E03-814D

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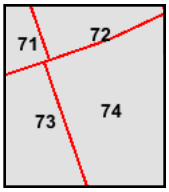

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0 Feet 165 330 660

1902 Certified Sanborn Map

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification #: 06C7-4E03-814D
Copyright: 1902

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Certification # 06C7-4E03-814D

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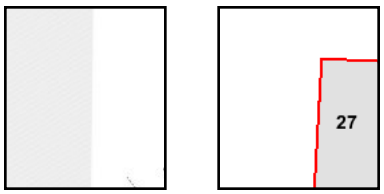

Volume 3, Sheet 27

0 Feet 165 330 660

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1888 Certified Sanborn Map

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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1888

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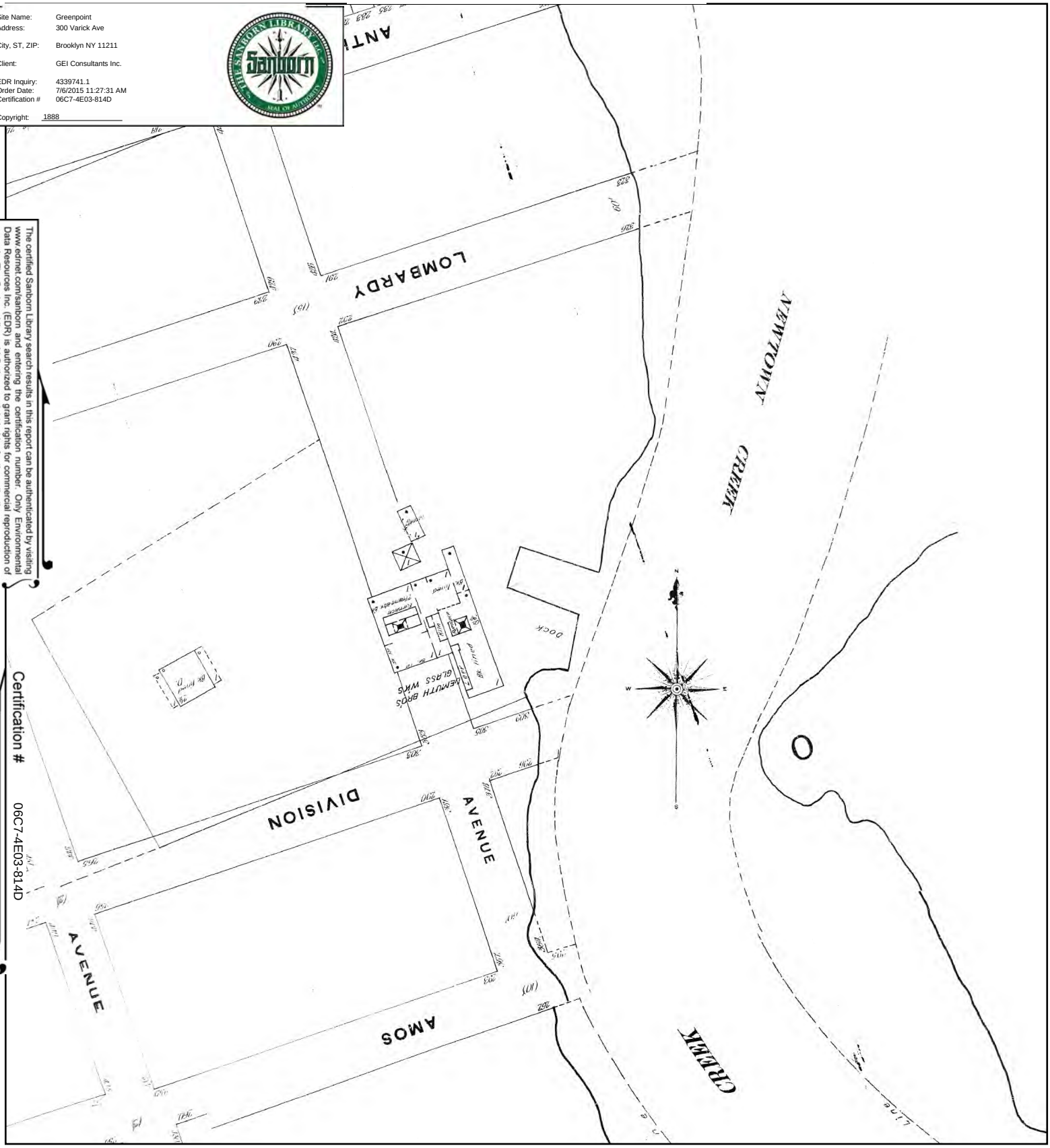
Certification # 06C7-4E03-814D



This Certified Sanborn Map combines the following sheets.
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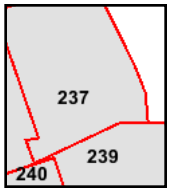

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N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1991	1983	1977
2006	1996	1990	1982	1968
2005	1995	1989	1981	1965
2004	1994	1988	1980	1951
2003	1993	1987	1979	1942
2002	1992	1986	1978	1933

1916
1907
1905
1888
1887

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets


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Volume 9, Sheet 64


Volume 9, Sheet 69


Volume 4, Sheet 49


Volume 4, Sheet 59

2006 Source Sheets


Volume 4, Sheet 59


Volume 4, Sheet 49


Volume 9, Sheet 63


Volume 9, Sheet 64


Volume 9, Sheet 69

2005 Source Sheets


Volume 4, Sheet 49


Volume 4, Sheet 59


Volume 9, Sheet 63


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2004 Source Sheets


Volume 9, Sheet 63


Volume 9, Sheet 64


Volume 9, Sheet 69


Volume 4, Sheet 49


Volume 4, Sheet 59

2003 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

2002 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59



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Volume 9, Sheet 69

2001 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59



Volume 9, Sheet 63



Volume 9, Sheet 64

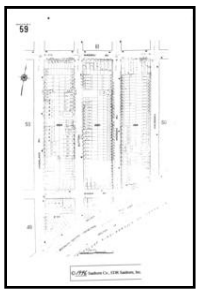


Volume 9, Sheet 69

1996 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59

1995 Source Sheets



Volume 9, Sheet 63



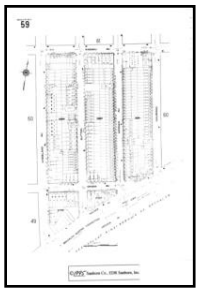
Volume 9, Sheet 64



Volume 9, Sheet 69



Volume 4, Sheet 49



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1994 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 65



Volume 9, Sheet 69

1993 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69



Volume 4, Sheet 49

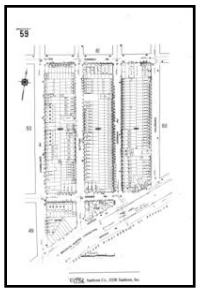


Volume 4, Sheet 59

1992 Source Sheets



Volume 4, Sheet 49



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Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

1991 Source Sheets



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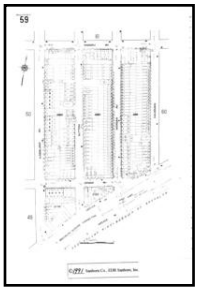
Volume 9, Sheet 64



Volume 4, Sheet 49



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Volume 9, Sheet 69

1990 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

1989 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

1988 Source Sheets



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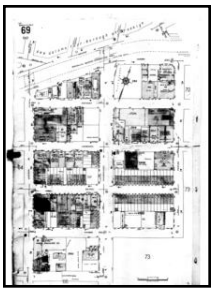
Volume 9, Sheet 64



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Volume 4, Sheet 49



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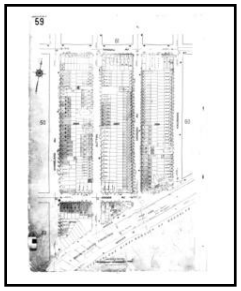
1987 Source Sheets



Volume 4, Sheet 49



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Volume 9, Sheet 63



Volume 9, Sheet 64



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1986 Source Sheets



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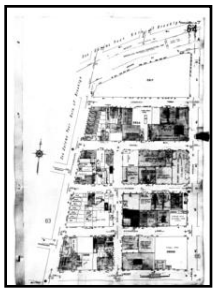
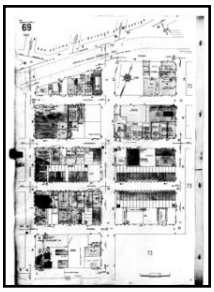


Volume 9, Sheet 64



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Volume 4, Sheet 49

1983 Source Sheets



Volume 4, Sheet 49

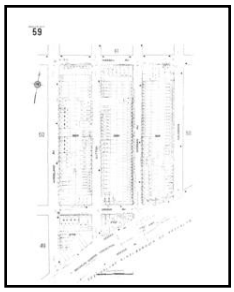


Volume 4, Sheet 59

1982 Source Sheets



Volume 4, Sheet 49



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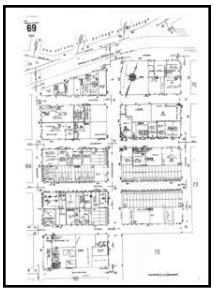

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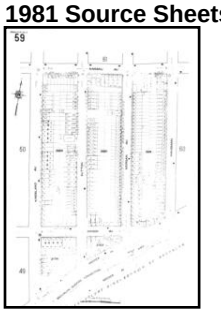
Volume 9, Sheet 64

1981 Source Sheets



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Volume 9, Sheet 69



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 4, Sheet 49

1980 Source Sheets



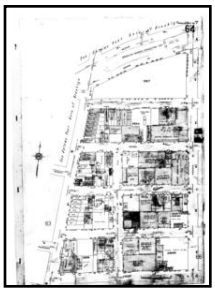
Volume 4, Sheet 49



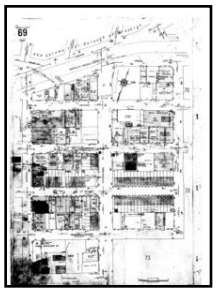
Volume 4, Sheet 59



Volume 9, Sheet 63



Volume 9, Sheet 64



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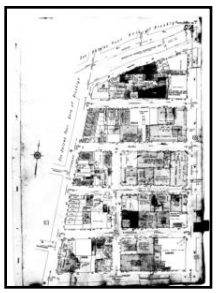
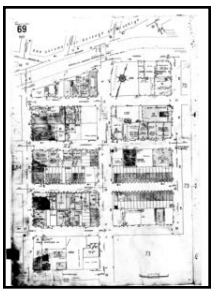
1979 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



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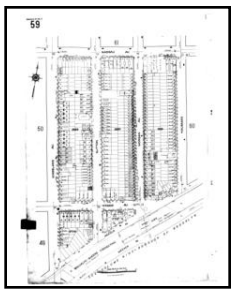

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1978 Source Sheets



Volume 4, Sheet 49



Volume 4, Sheet 59

1977 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

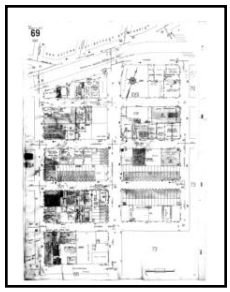
1968 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



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1965 Source Sheets



Volume 4, Sheet 49



Volume 9, Sheet 63



Volume 9, Sheet 64

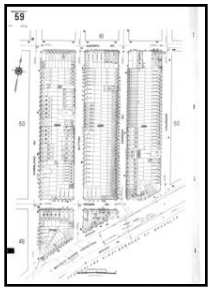


Volume 9, Sheet 69

1951 Source Sheets



Volume 4, Sheet 49



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Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

1942 Source Sheets



Volume 4, Sheet 49

1933 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 69

1916 Source Sheets



Volume 4, Sheet 49

1907 Source Sheets



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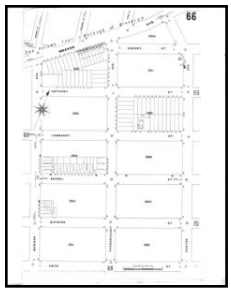

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1905 Source Sheets



Volume 4, Sheet 49

1888 Source Sheets



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1887 Source Sheets



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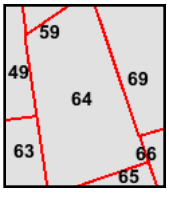

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N

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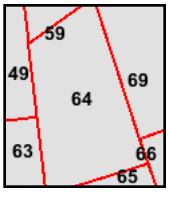

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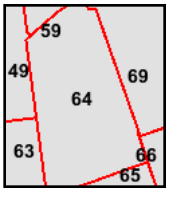

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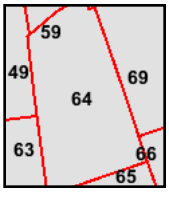

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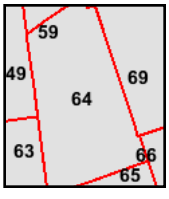

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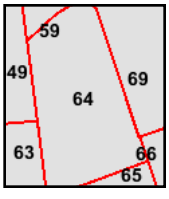

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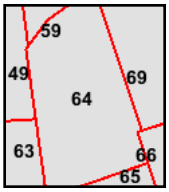

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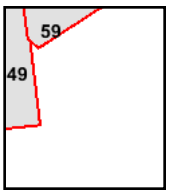

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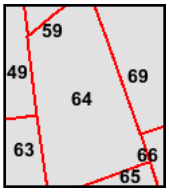

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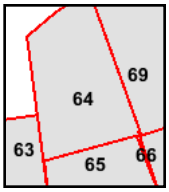

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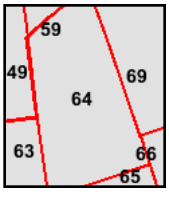

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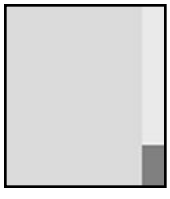

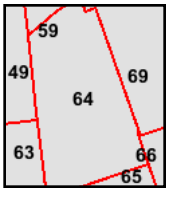

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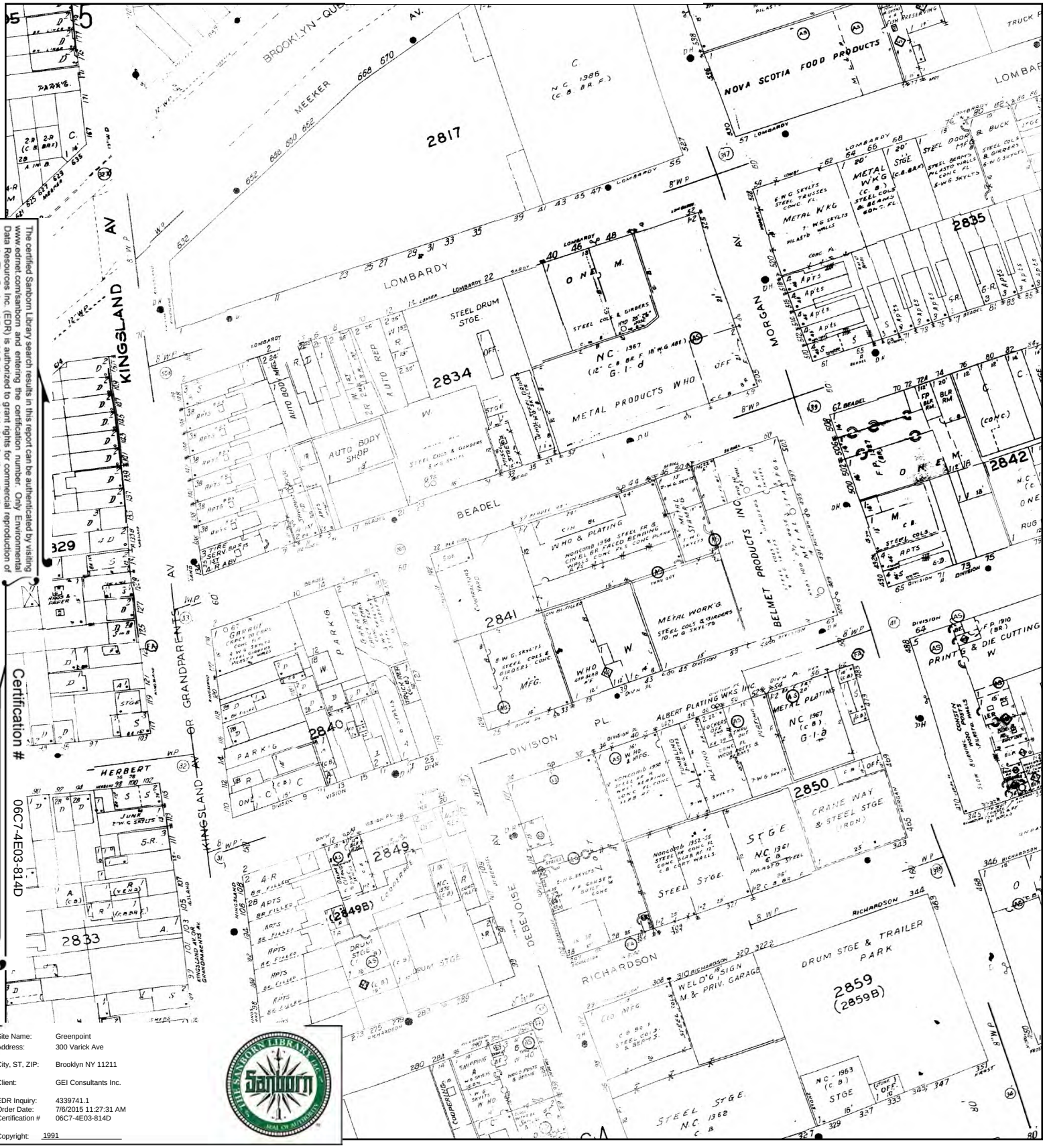
1991 Certified Sanborn Map



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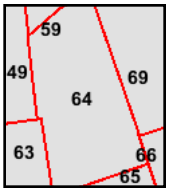

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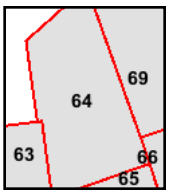

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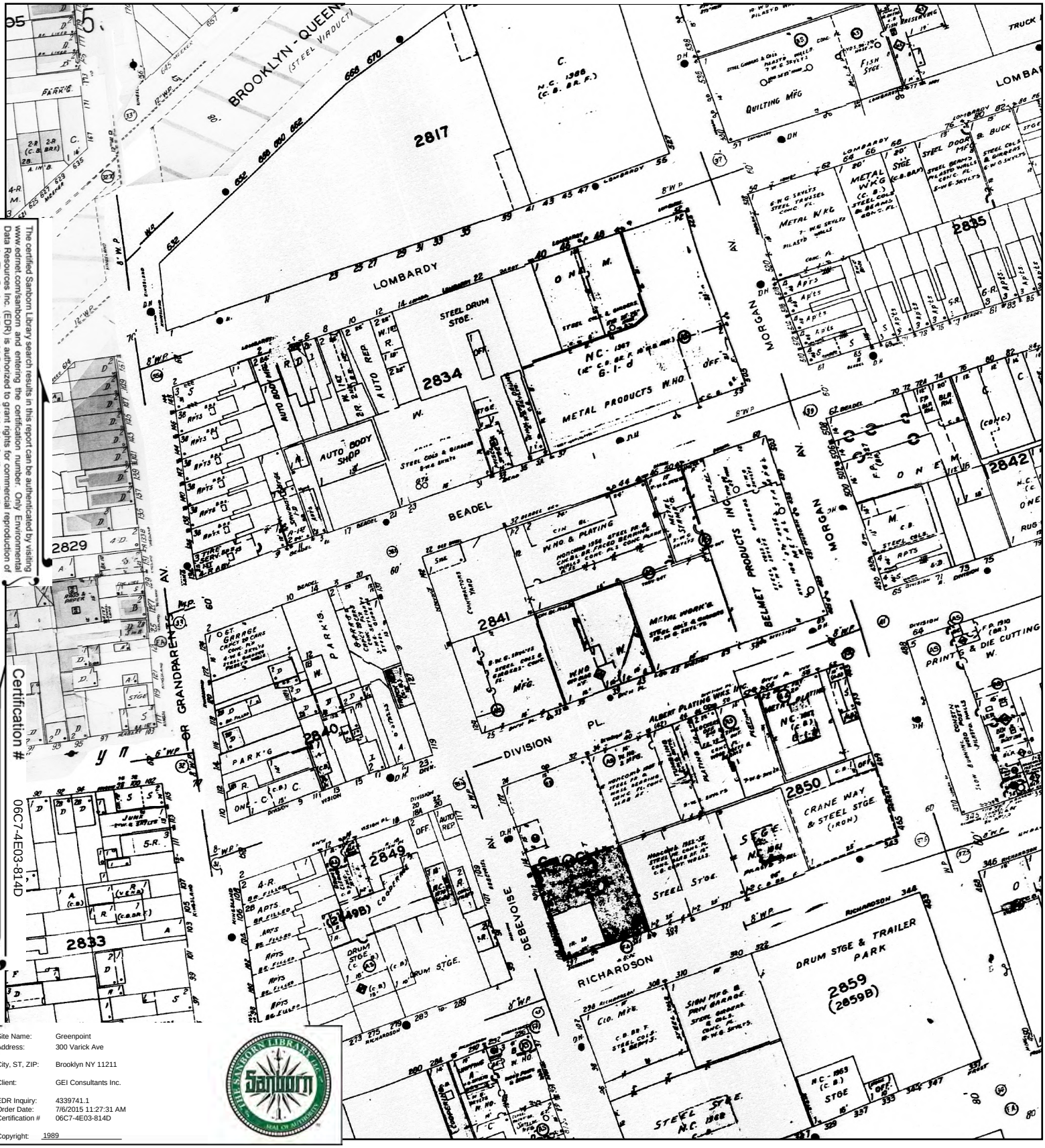
1989 Certified Sanborn Map



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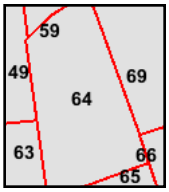

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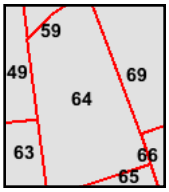

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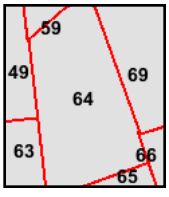

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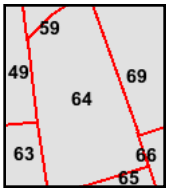

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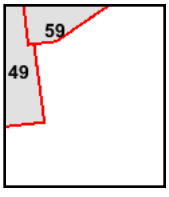

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EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1982

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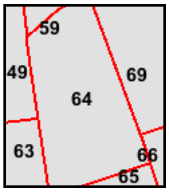

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Volume 9, Sheet 69
Volume 9, Sheet 63
Volume 9, Sheet 64

0 Feet 165 330 660

N

1981 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1981

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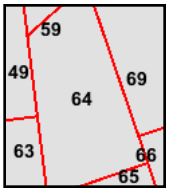

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Volume 9, Sheet 69
Volume 9, Sheet 63
Volume 9, Sheet 64
Volume 4, Sheet 49

0 Feet 165 330 660

N

1980 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1980

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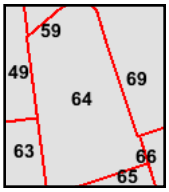

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Volume 9, Sheet 69

0 Feet 165 330 660

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1979 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1979

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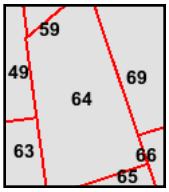

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Volume 9, Sheet 69
Volume 4, Sheet 49
Volume 4, Sheet 59

0 Feet 165 330 660

N

1978 Certified Sanborn Map



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City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1978

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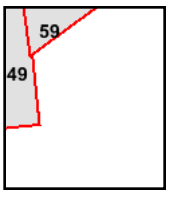

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0 Feet 165 330 660

N

1977 Certified Sanborn Map



Certification # 06C7-4E03-814D

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Address:	300 Varick Ave
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Certification #	06C7-4E03-814D
Copyright:	1977

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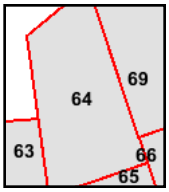

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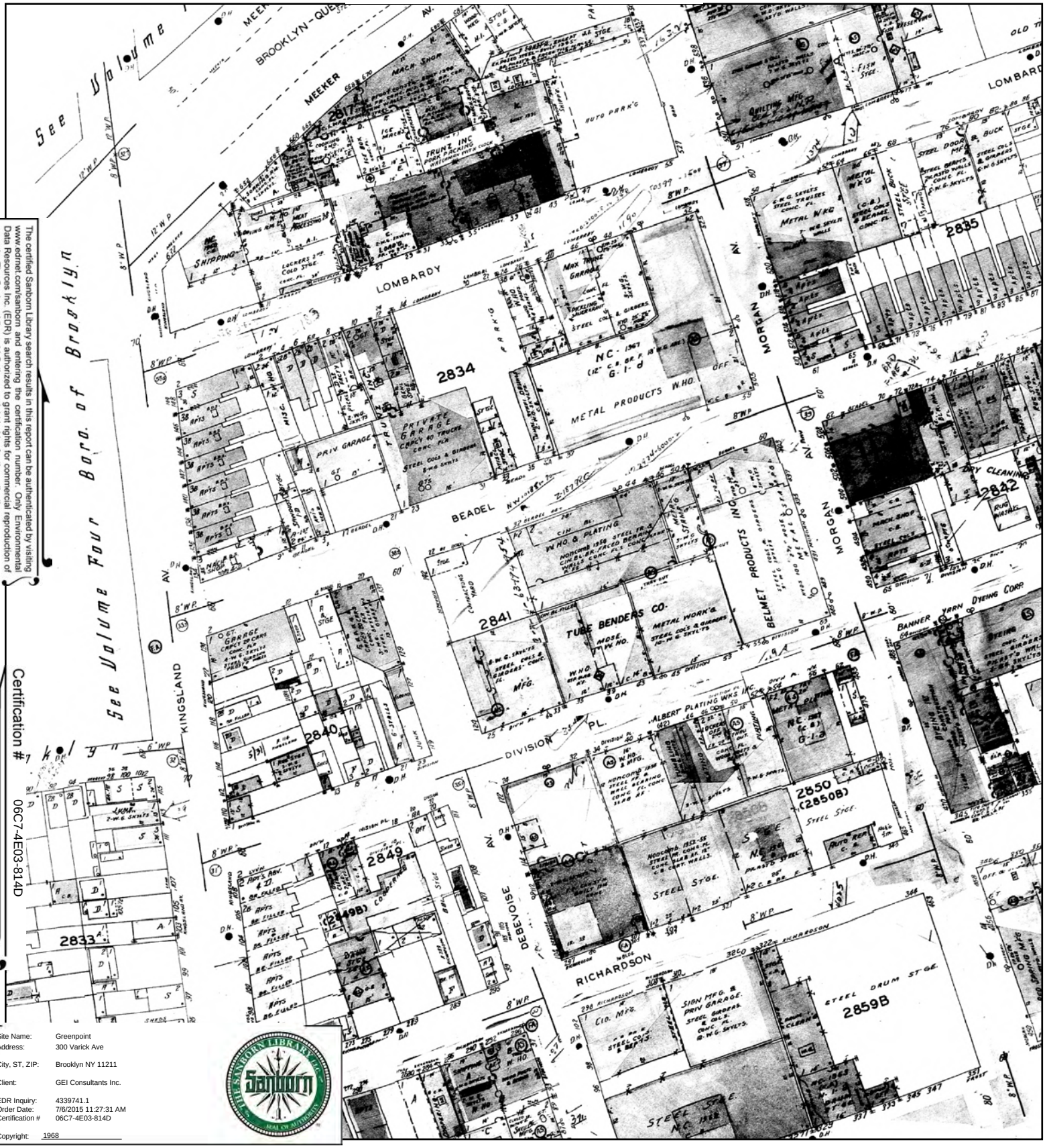
N

1968 Certified Sanborn Map



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Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1968

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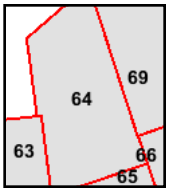

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0 Feet 165 330 660

N

1965 Certified Sanborn Map



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Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1965

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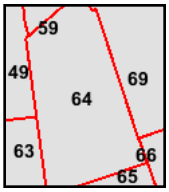

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N

1951 Certified Sanborn Map



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City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1951

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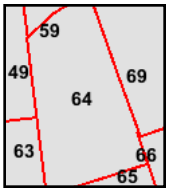

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N

1942 Certified Sanborn Map



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Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1942

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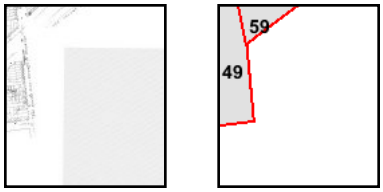

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1933 Certified Sanborn Map



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Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
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Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1933

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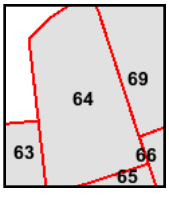
0 Feet 165 330 660





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N

1916 Certified Sanborn Map



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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1916

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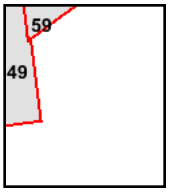

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1907 Certified Sanborn Map



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City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Certification #	06C7-4E03-814D
Copyright:	1907

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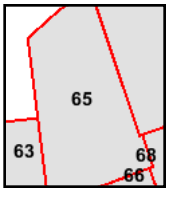
0 Feet 165 330 660





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1905 Certified Sanborn Map



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City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Certification #	06C7-4E03-814D
Copyright:	1905

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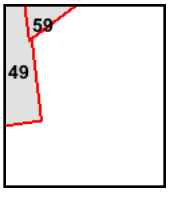

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1888 Certified Sanborn Map



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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
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EDR Inquiry: 4339741.1
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Certification # 06C7-4E03-814D
Copyright: 1888

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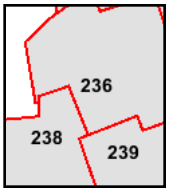

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1887 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
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Copyright:	1887

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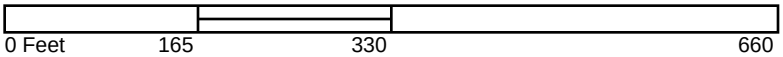



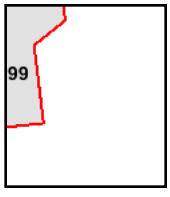

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

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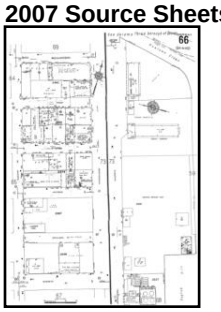
2007 Source Sheets



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2006 Source Sheets



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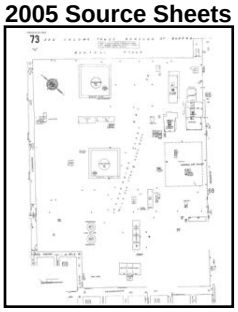
2005 Source Sheets



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2004 Source Sheets



Volume 9, Sheet 66

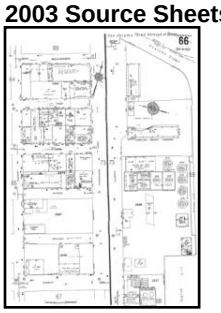


Volume 9, Sheet 69



Volume 9, Sheet 73

2003 Source Sheets



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2002 Source Sheets



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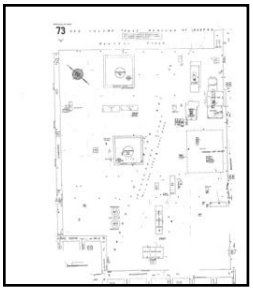

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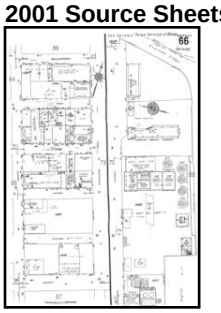
2001 Source Sheets



Volume 9, Sheet 66

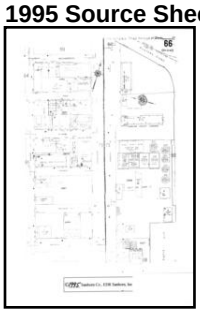


Volume 9, Sheet 69



Volume 9, Sheet 73

1995 Source Sheets



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Volume 9, Sheet 69



Volume 9, Sheet 73

1994 Source Sheets



Volume 9, Sheet 66

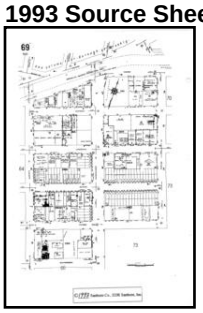


Volume 9, Sheet 69



Volume 9, Sheet 73

1993 Source Sheets



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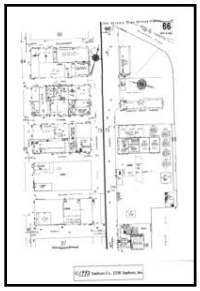

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Volume 9, Sheet 73



Volume 9, Sheet 66

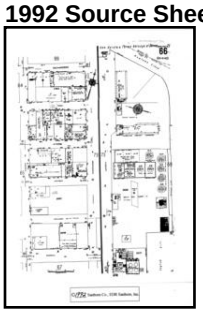


Volume 9, Sheet 69



Volume 9, Sheet 73

1992 Source Sheets



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Volume 9, Sheet 73



Volume 9, Sheet 69

1991 Source Sheets



Volume 9, Sheet 66

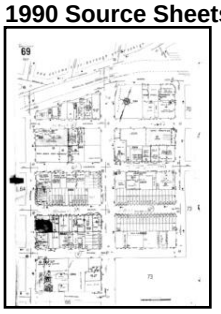


Volume 9, Sheet 69



Volume 9, Sheet 73

1990 Source Sheets



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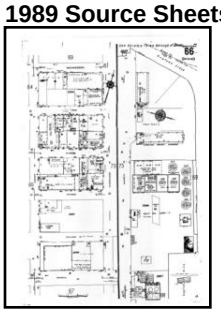

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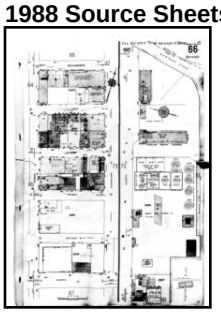
Volume 9, Sheet 69



Volume 9, Sheet 73

1988 Source Sheets



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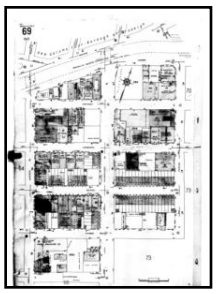

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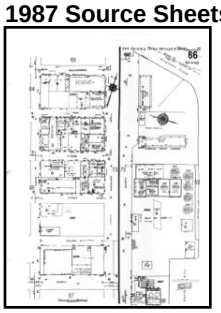
Volume 9, Sheet 73

1987 Source Sheets



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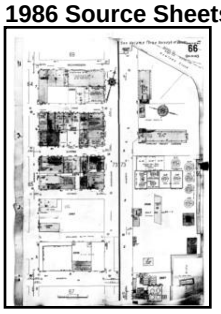
1986 Source Sheets



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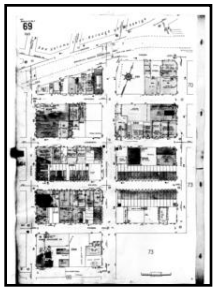

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1982 Source Sheets



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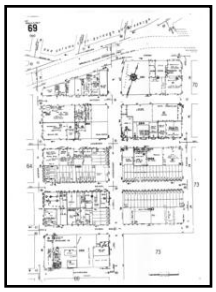

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Volume 9, Sheet 73

1981 Source Sheets



Volume 9, Sheet 73



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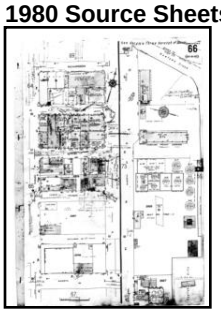
1980 Source Sheets



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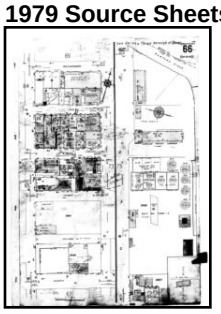
1979 Source Sheets



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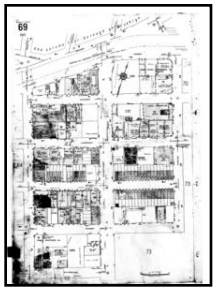

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1977 Source Sheets



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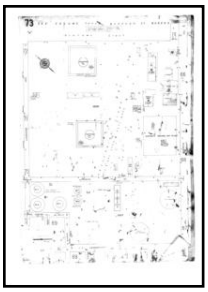

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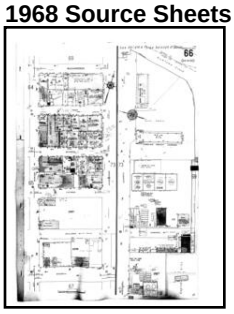
1968 Source Sheets



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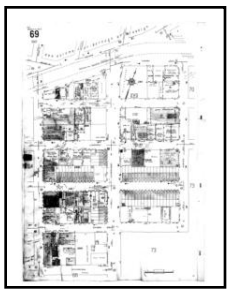

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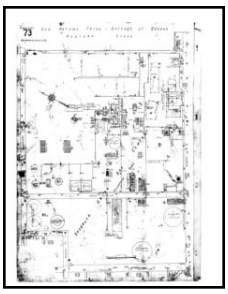

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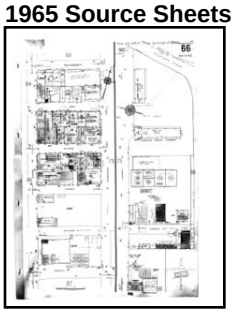
1965 Source Sheets



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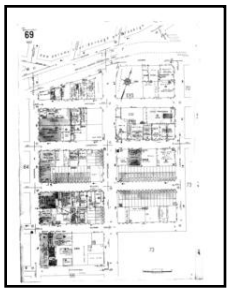

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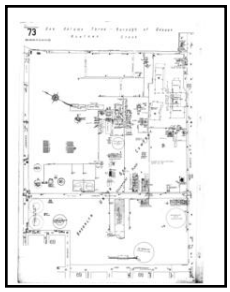

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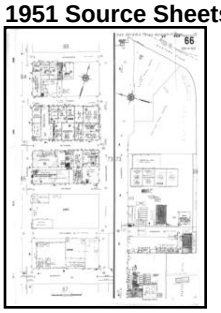
1951 Source Sheets



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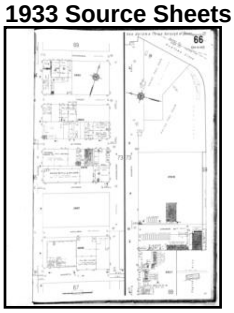
1933 Source Sheets



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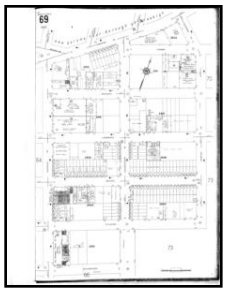

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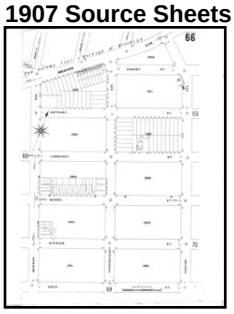
1907 Source Sheets



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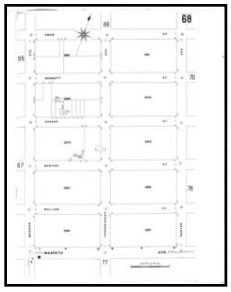

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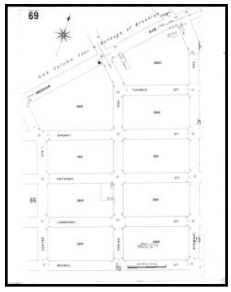

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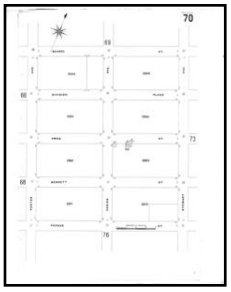

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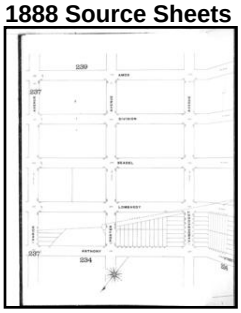

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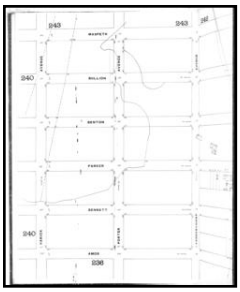

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2007 Certified Sanborn Map



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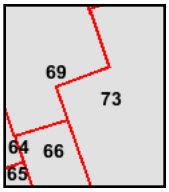

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0 Feet 165 330 660

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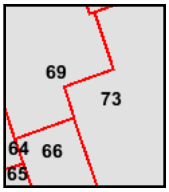

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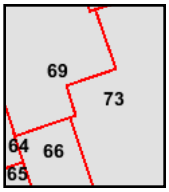

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2004 Certified Sanborn Map



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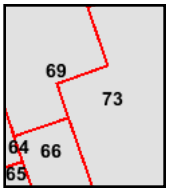

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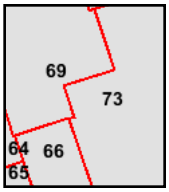

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0 Feet 165 330 660

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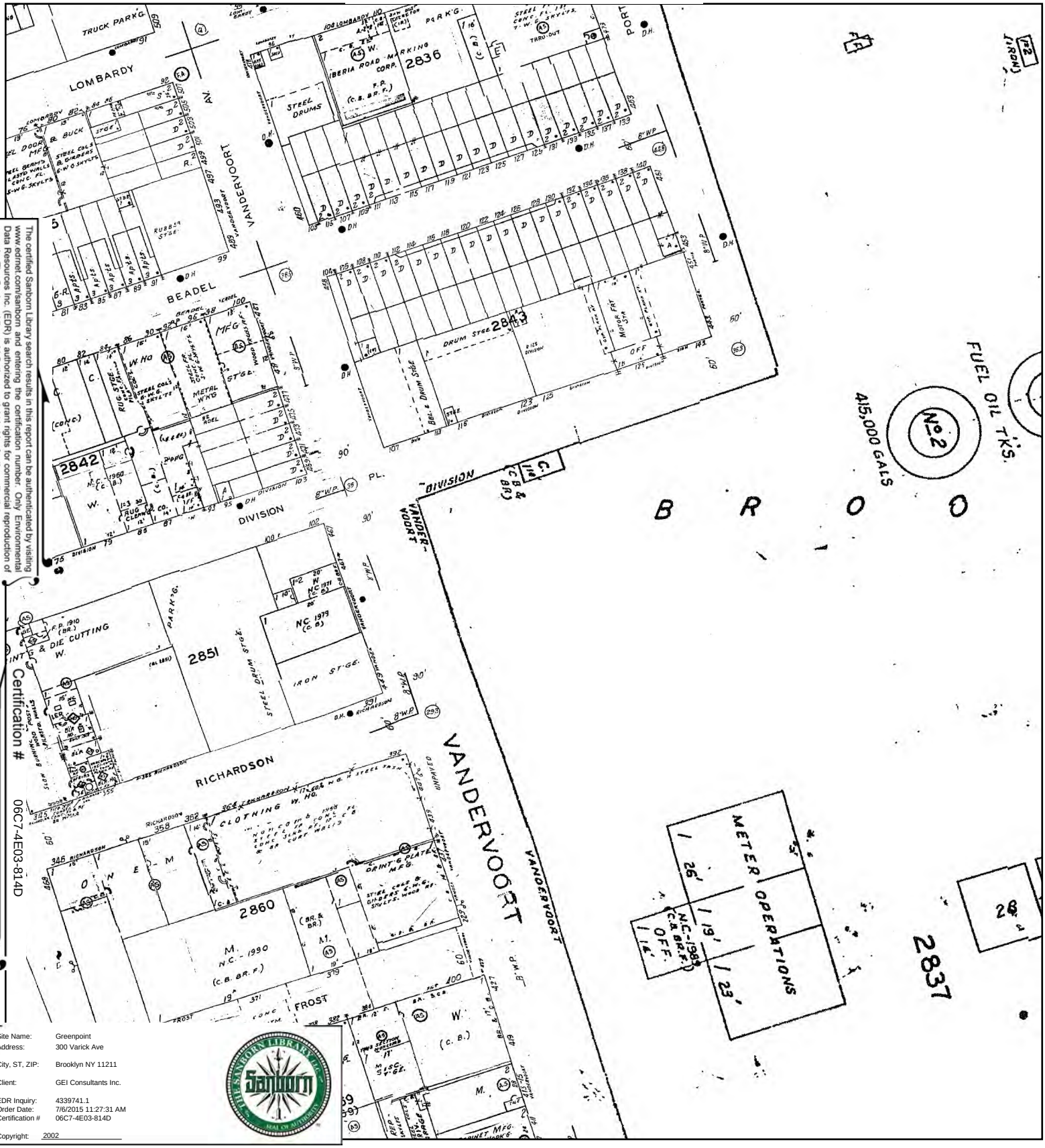
2002 Certified Sanborn Map



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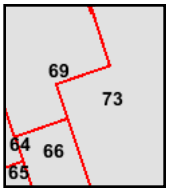

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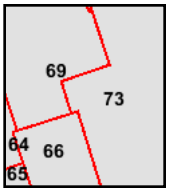

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0 Feet 165 330 660

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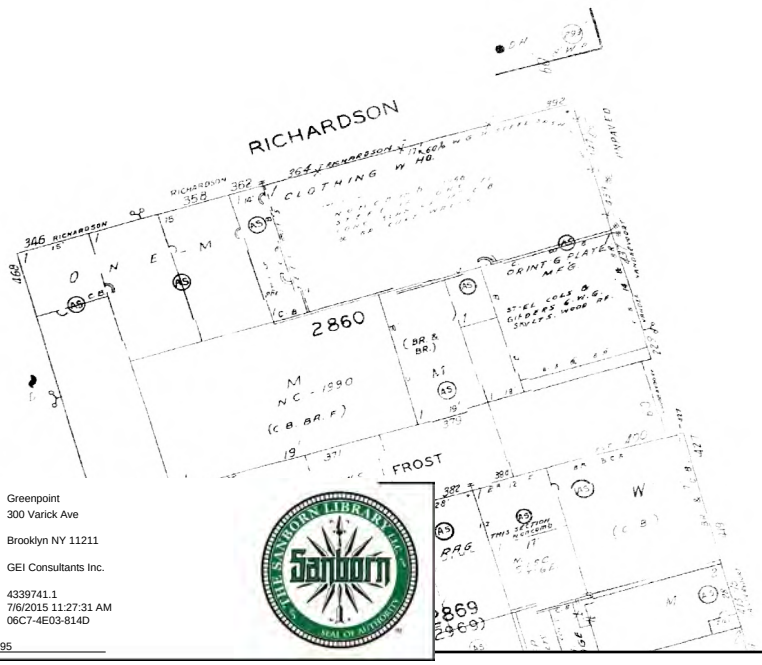

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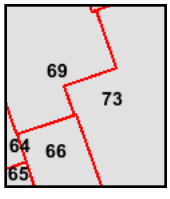

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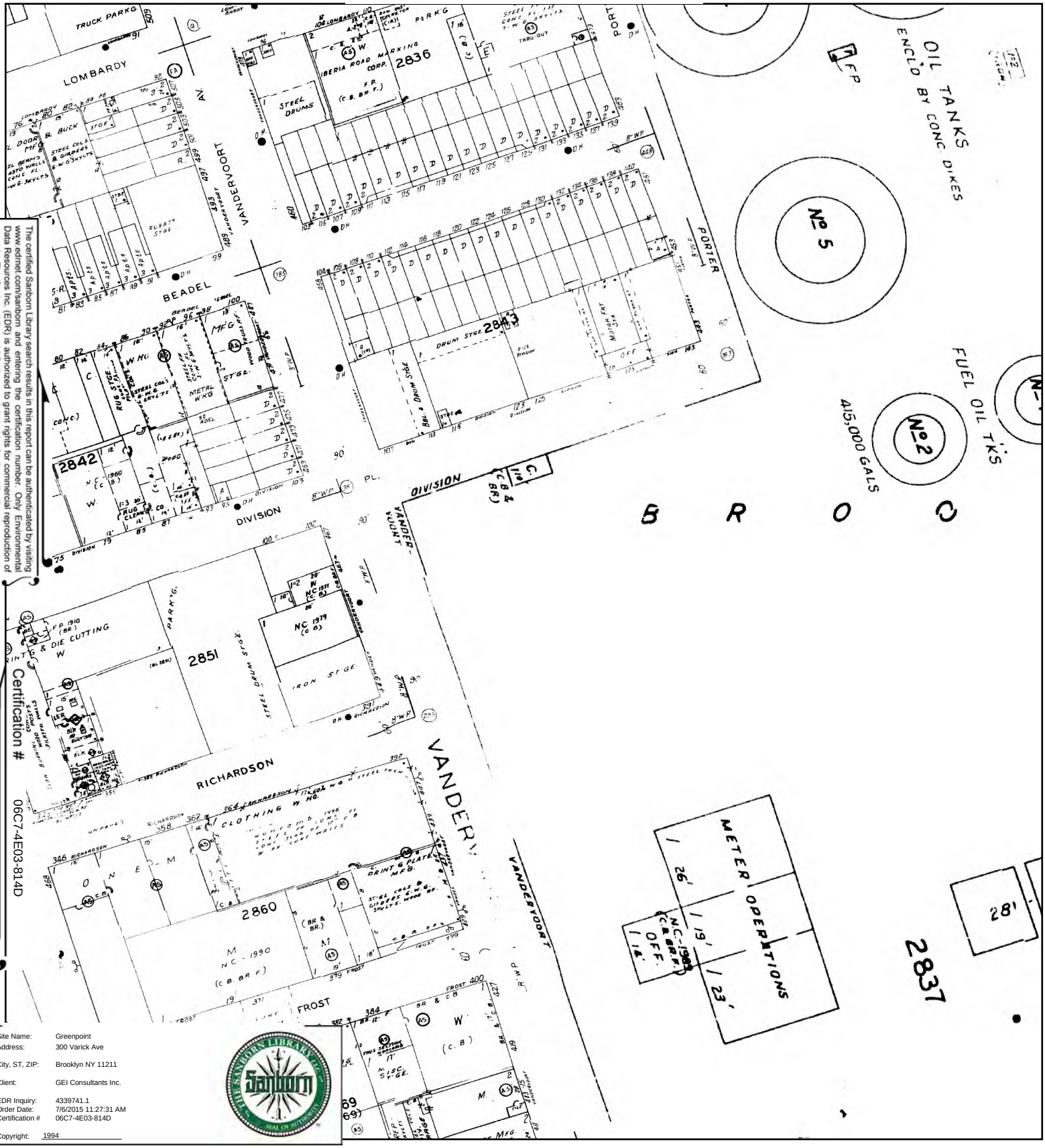

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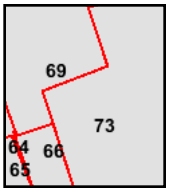

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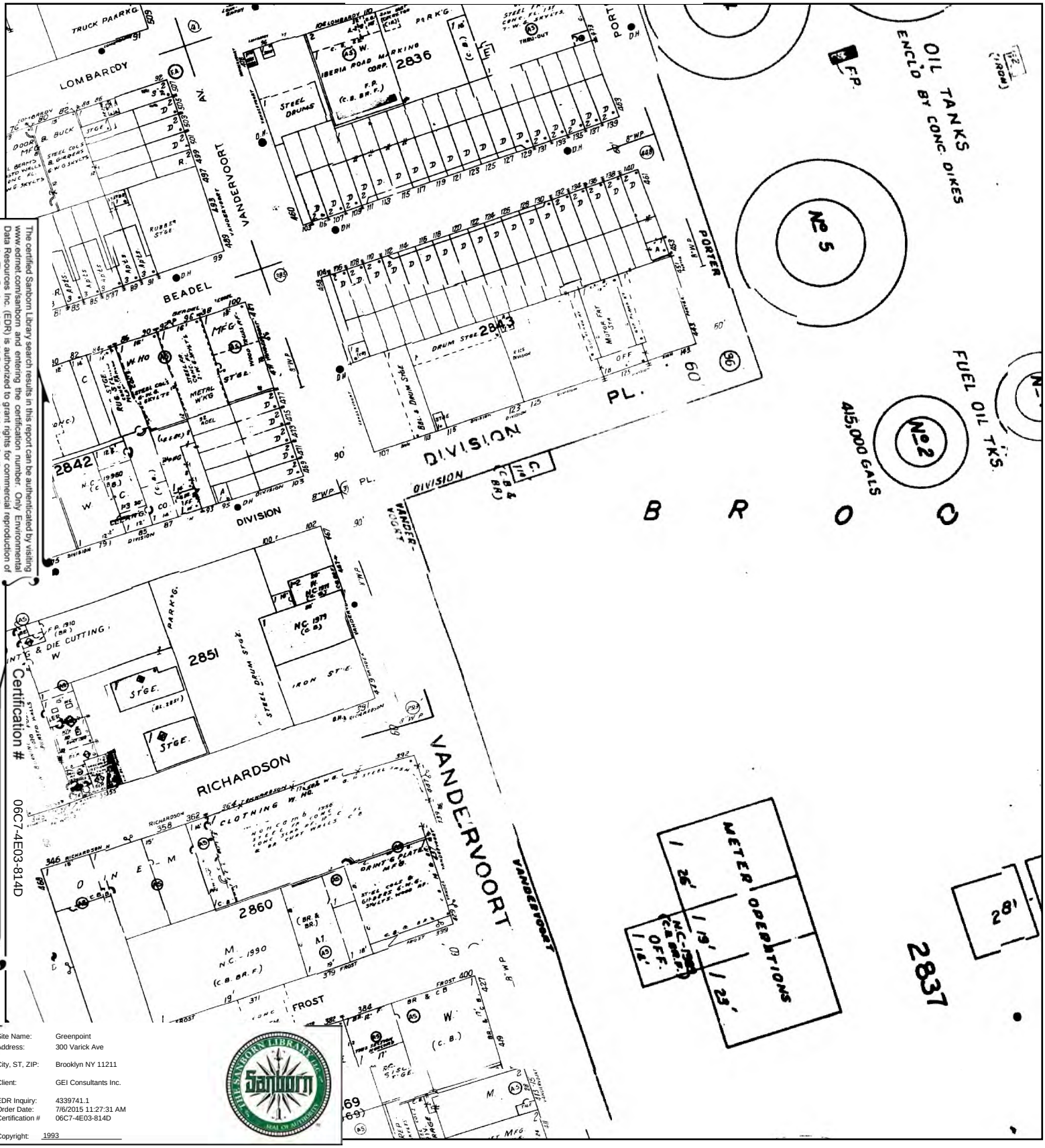
1993 Certified Sanborn Map



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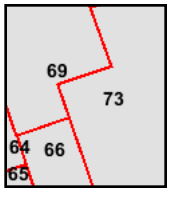

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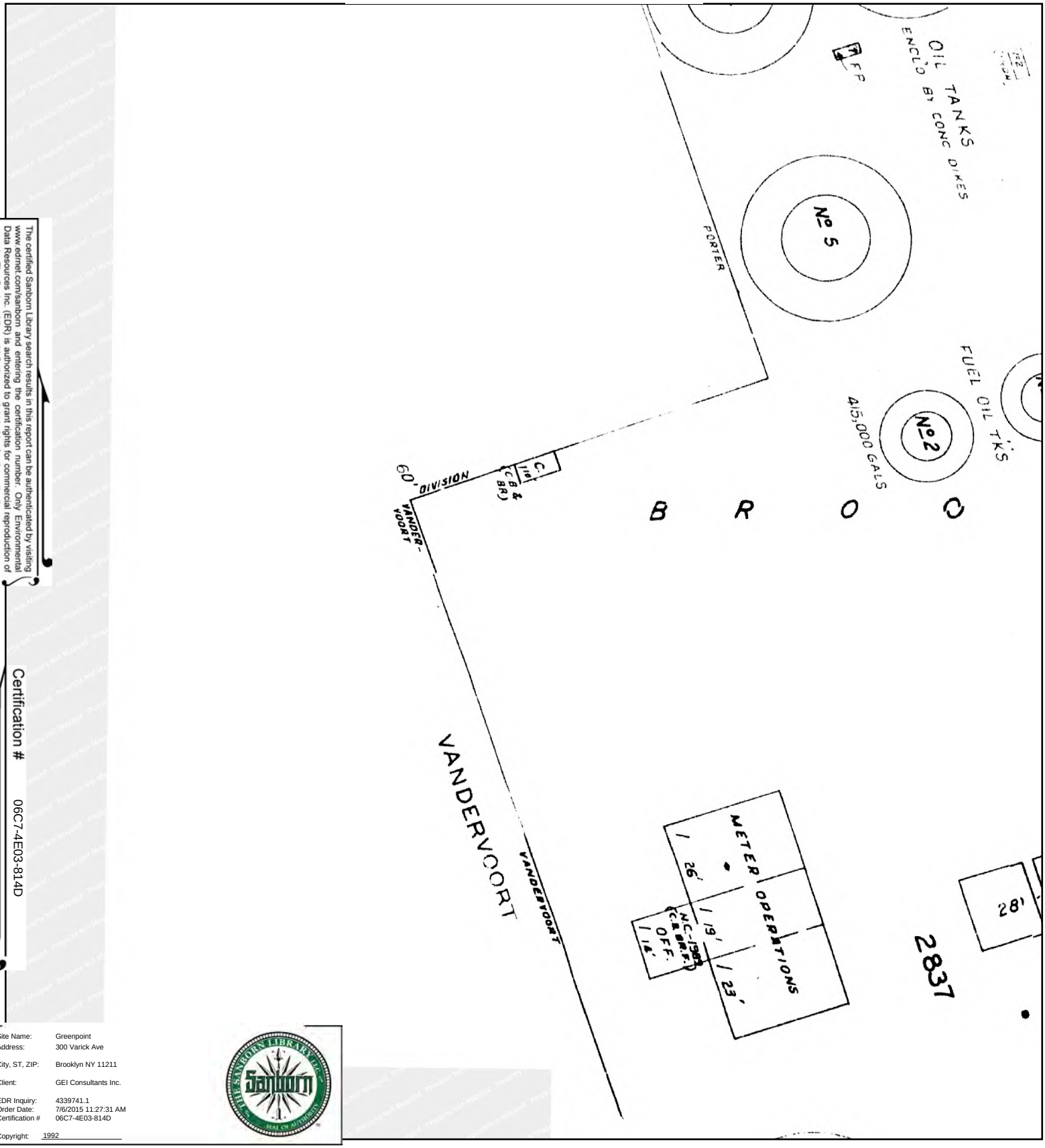
1992 Certified Sanborn Map



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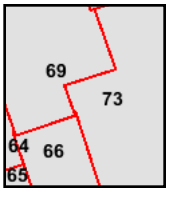

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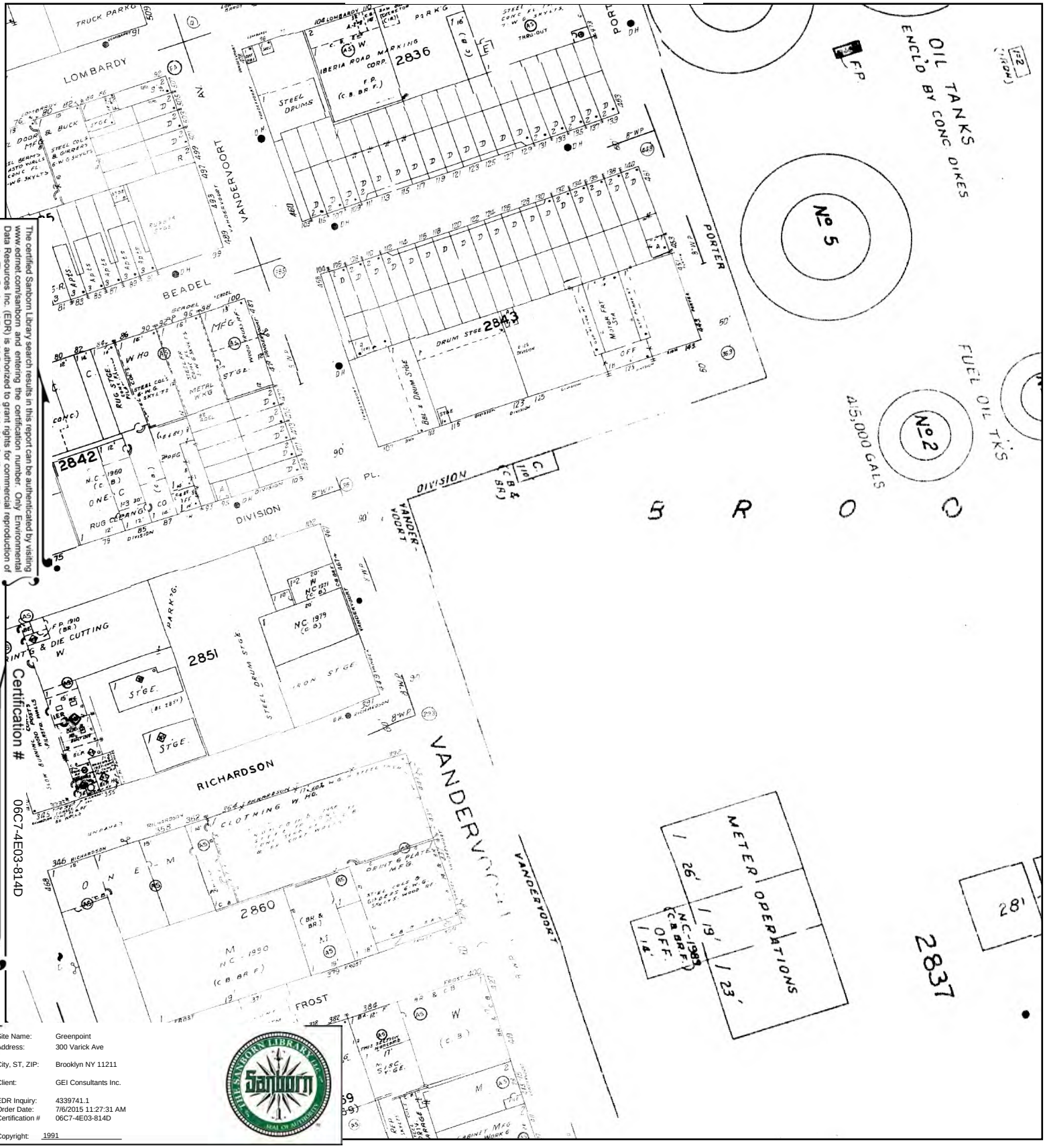

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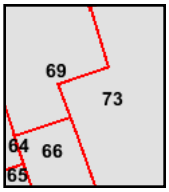

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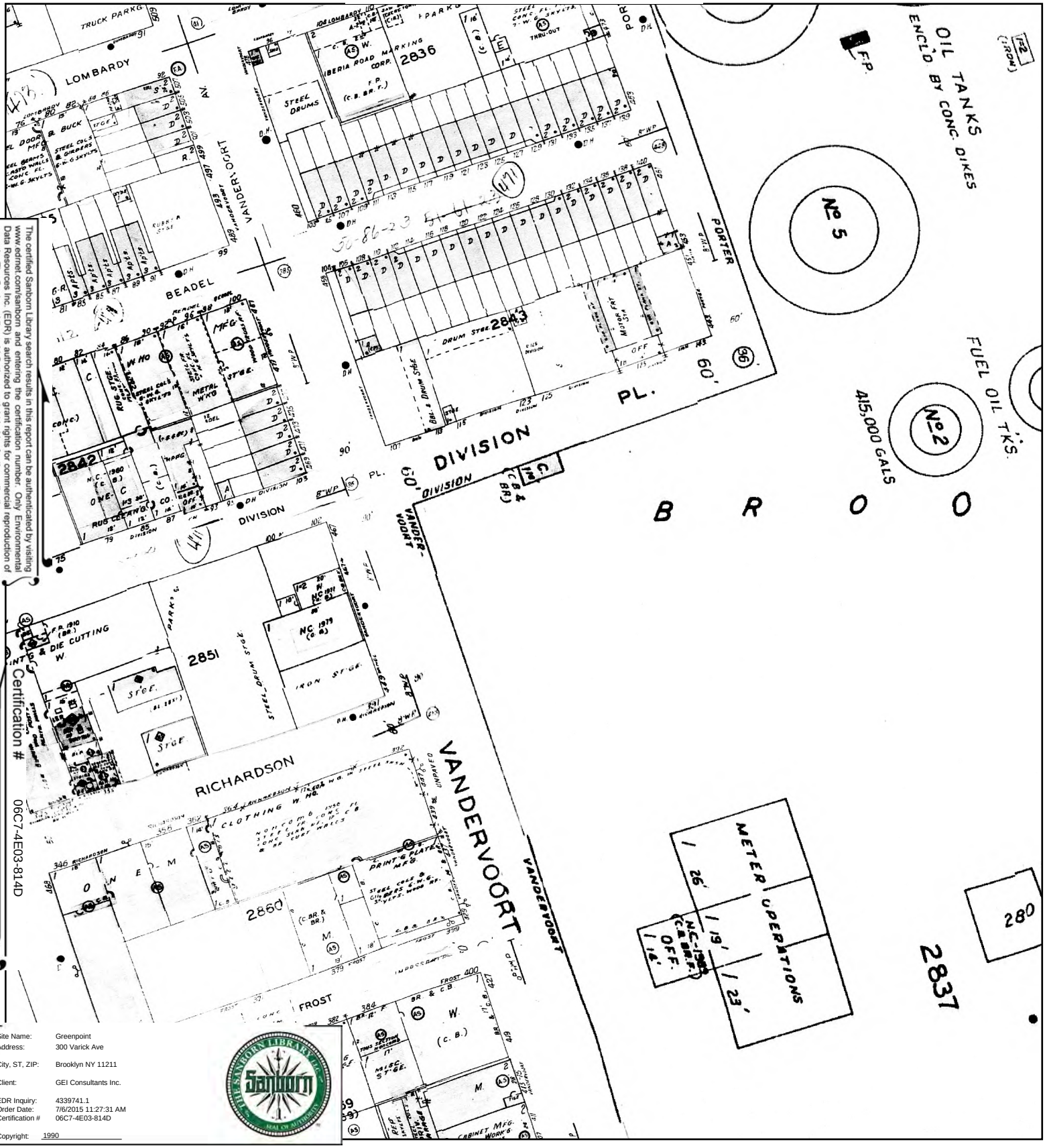

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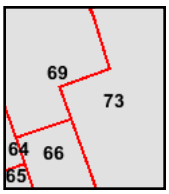

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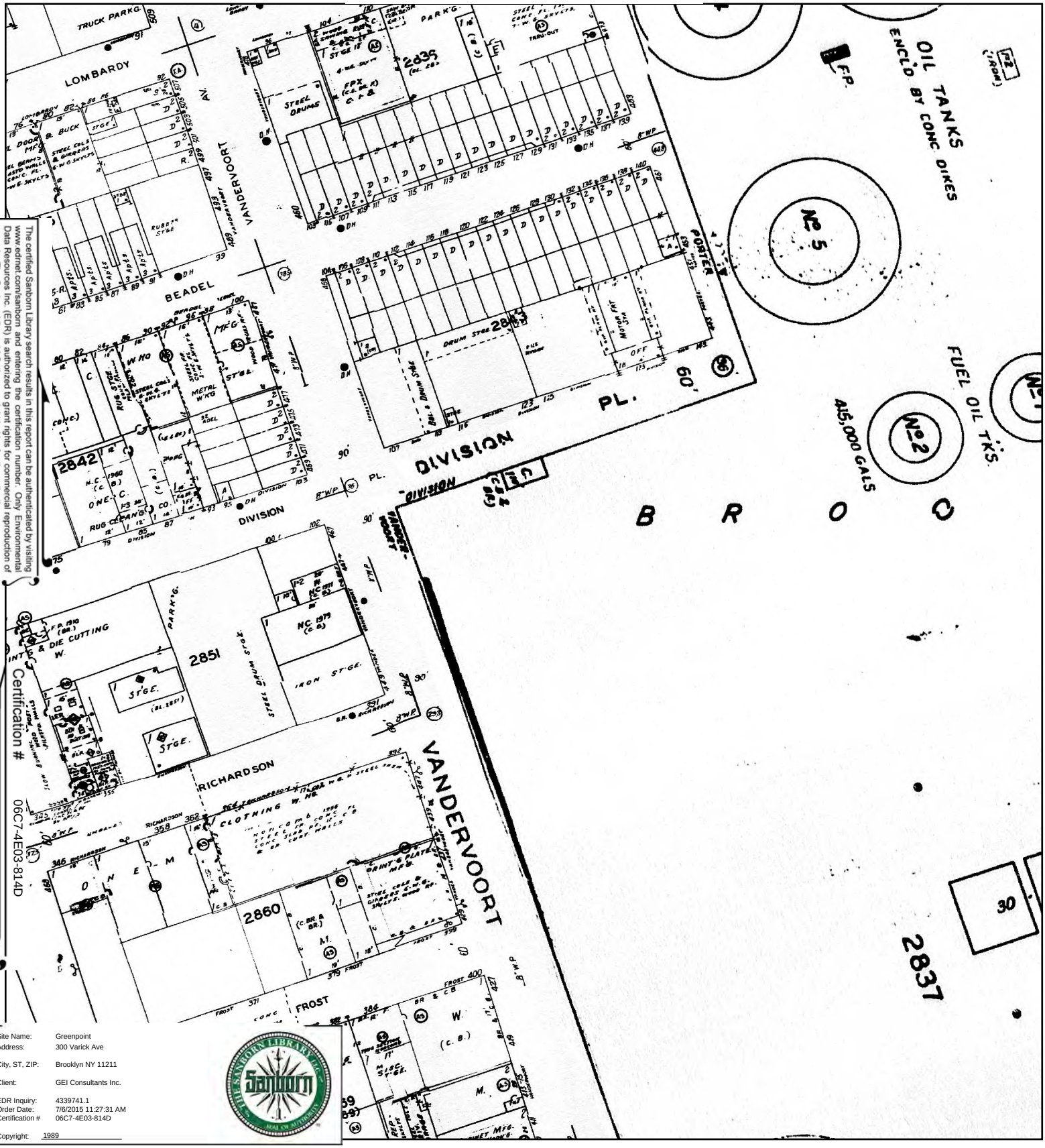

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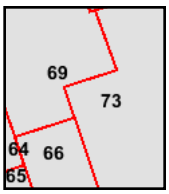

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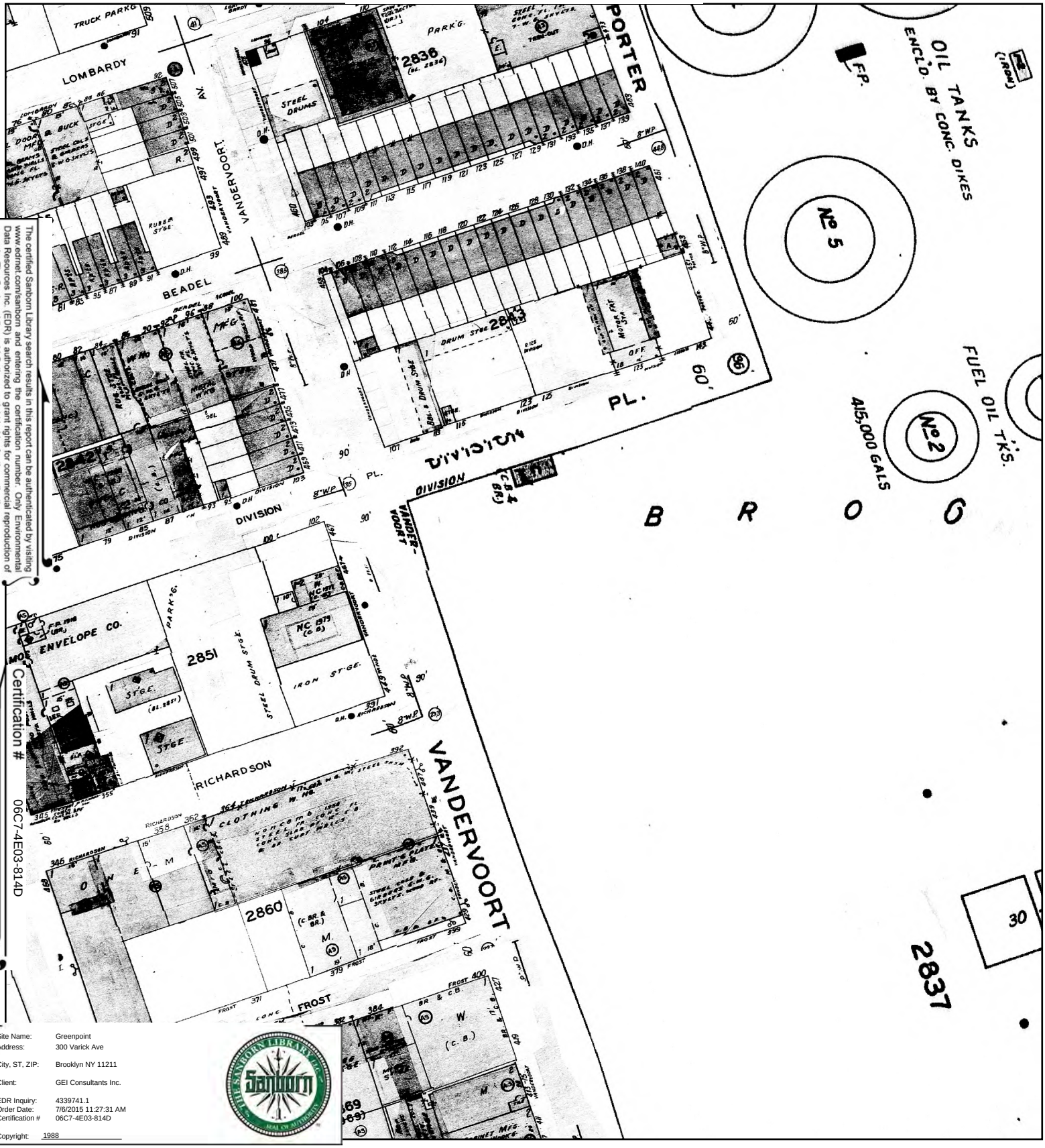

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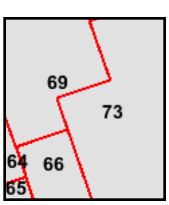

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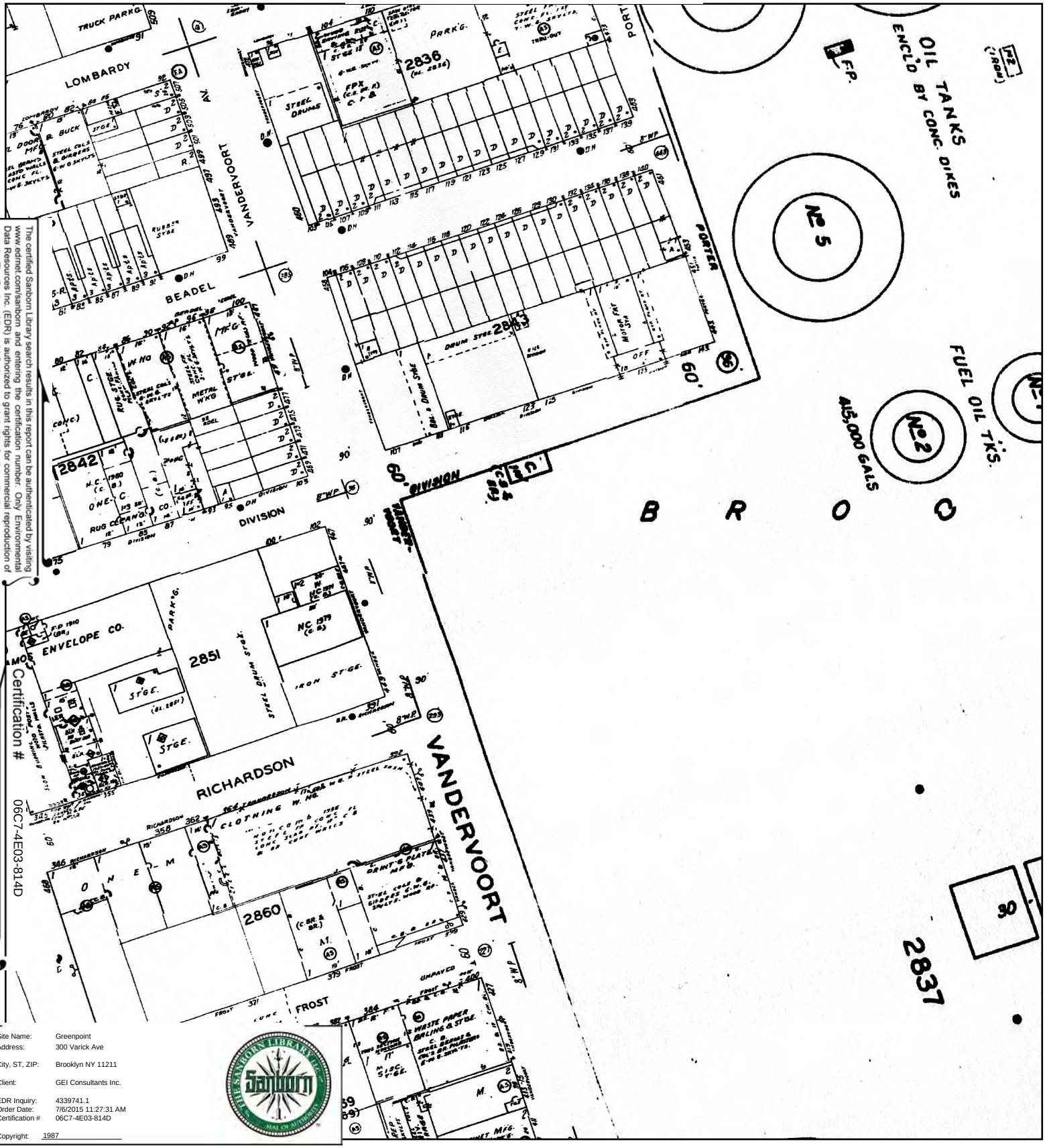
1987 Certified Sanborn Map



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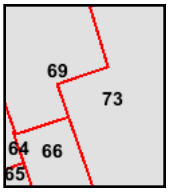

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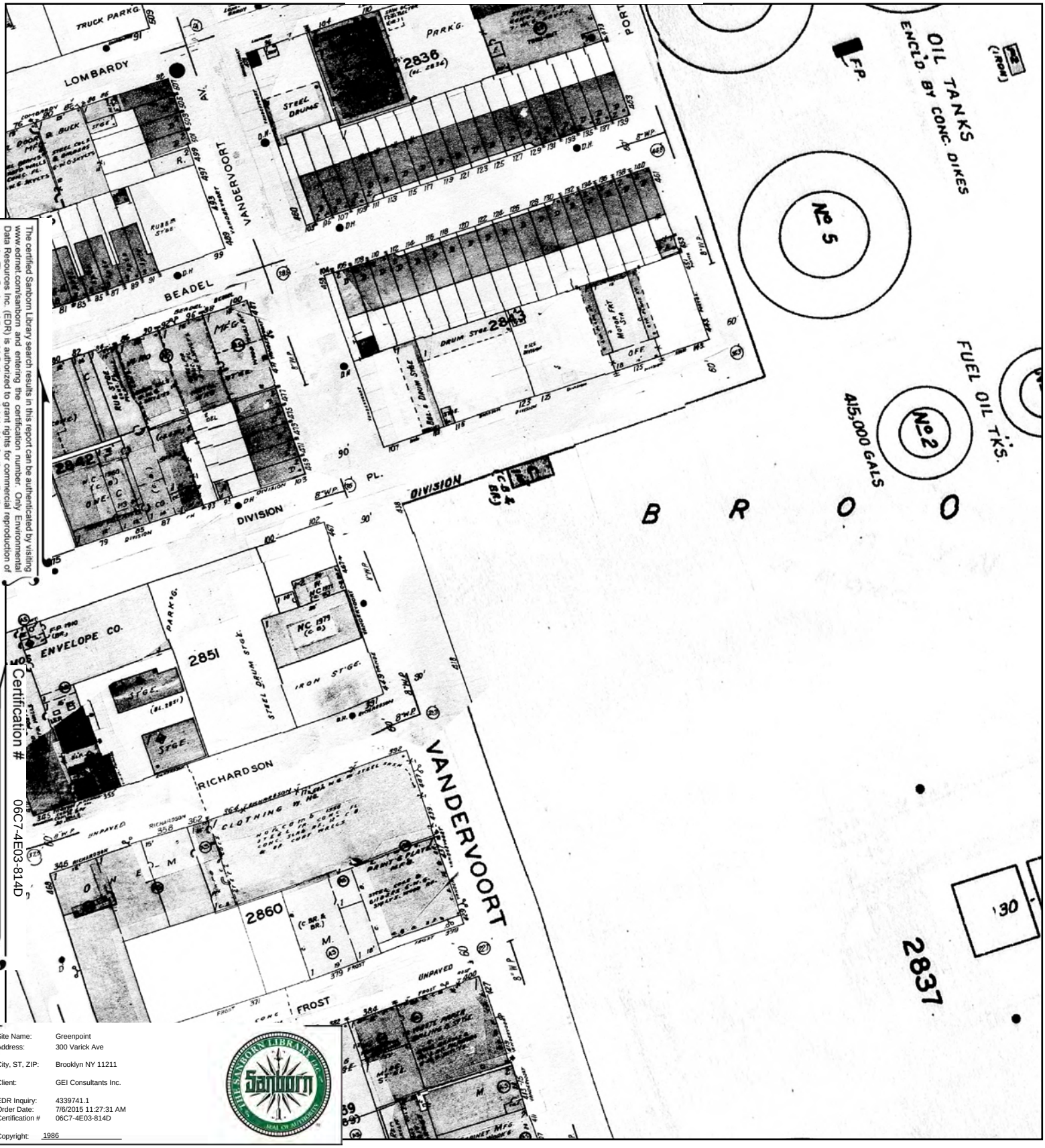
1986 Certified Sanborn Map



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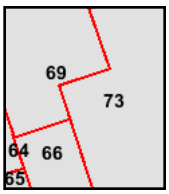

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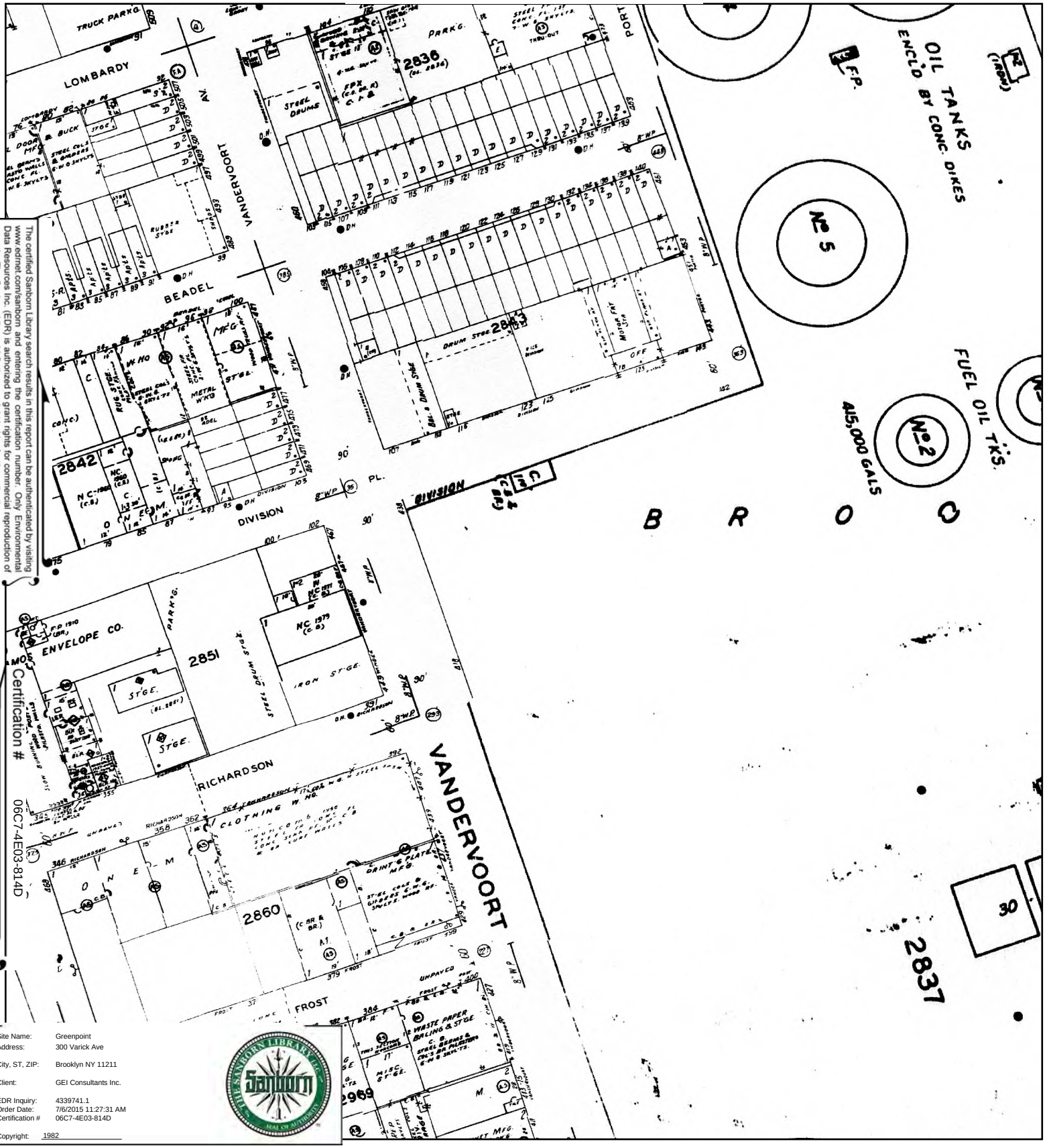
1982 Certified Sanborn Map



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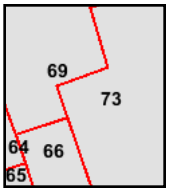

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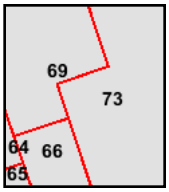

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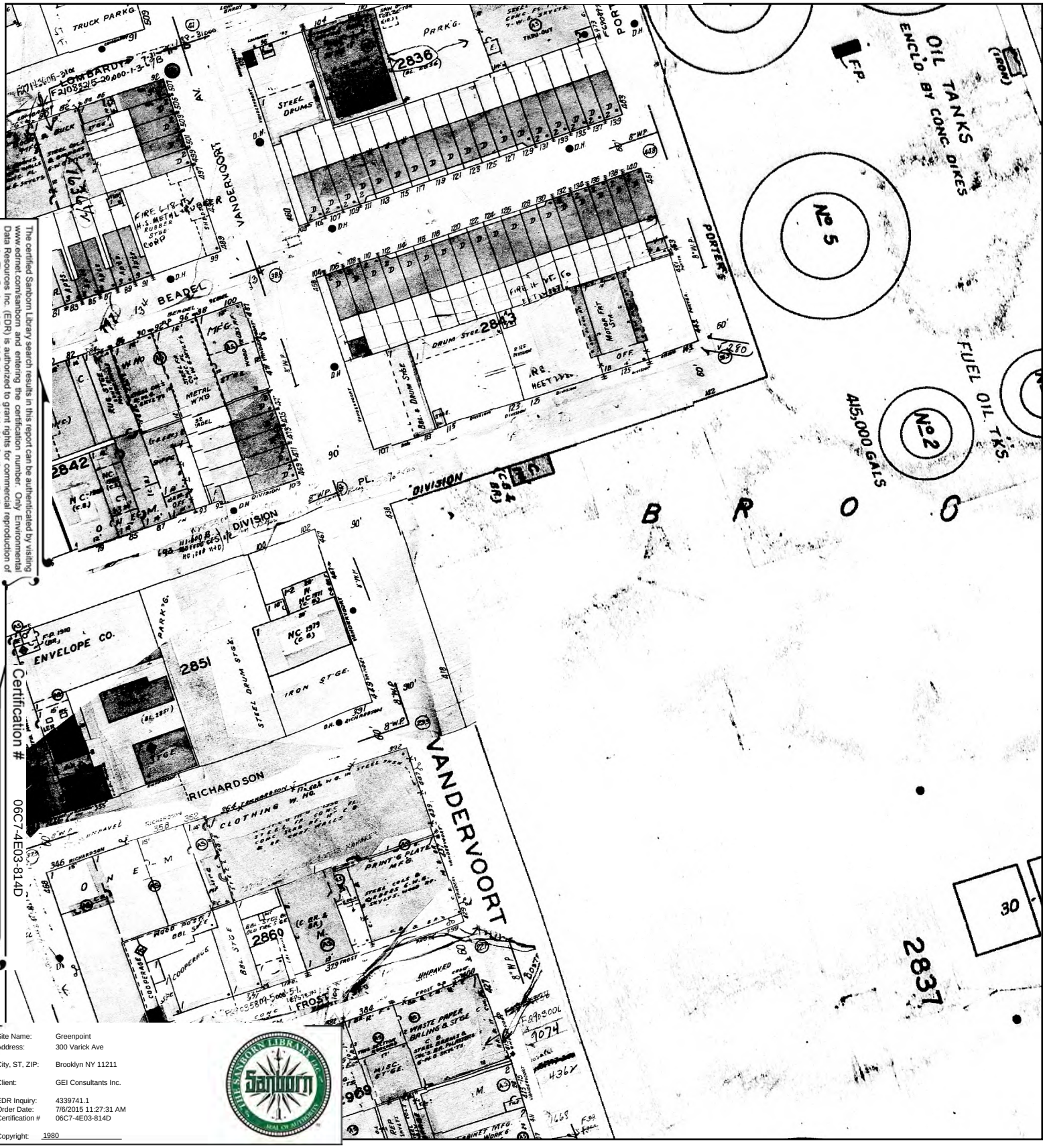
1980 Certified Sanborn Map



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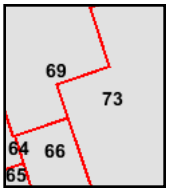

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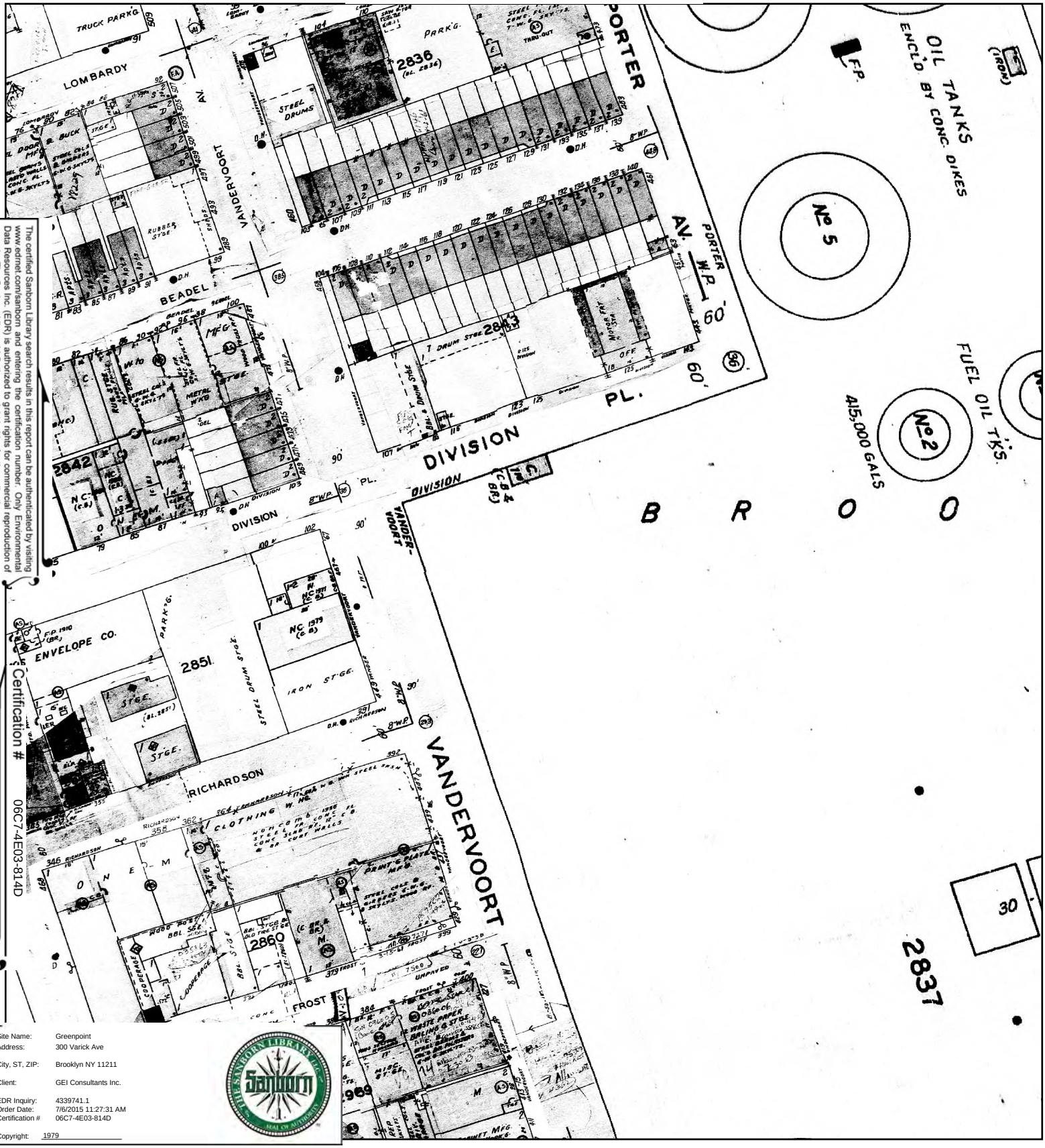
1979 Certified Sanborn Map



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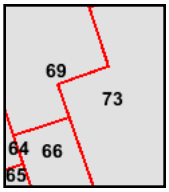

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1977 Certified Sanborn Map



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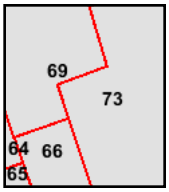

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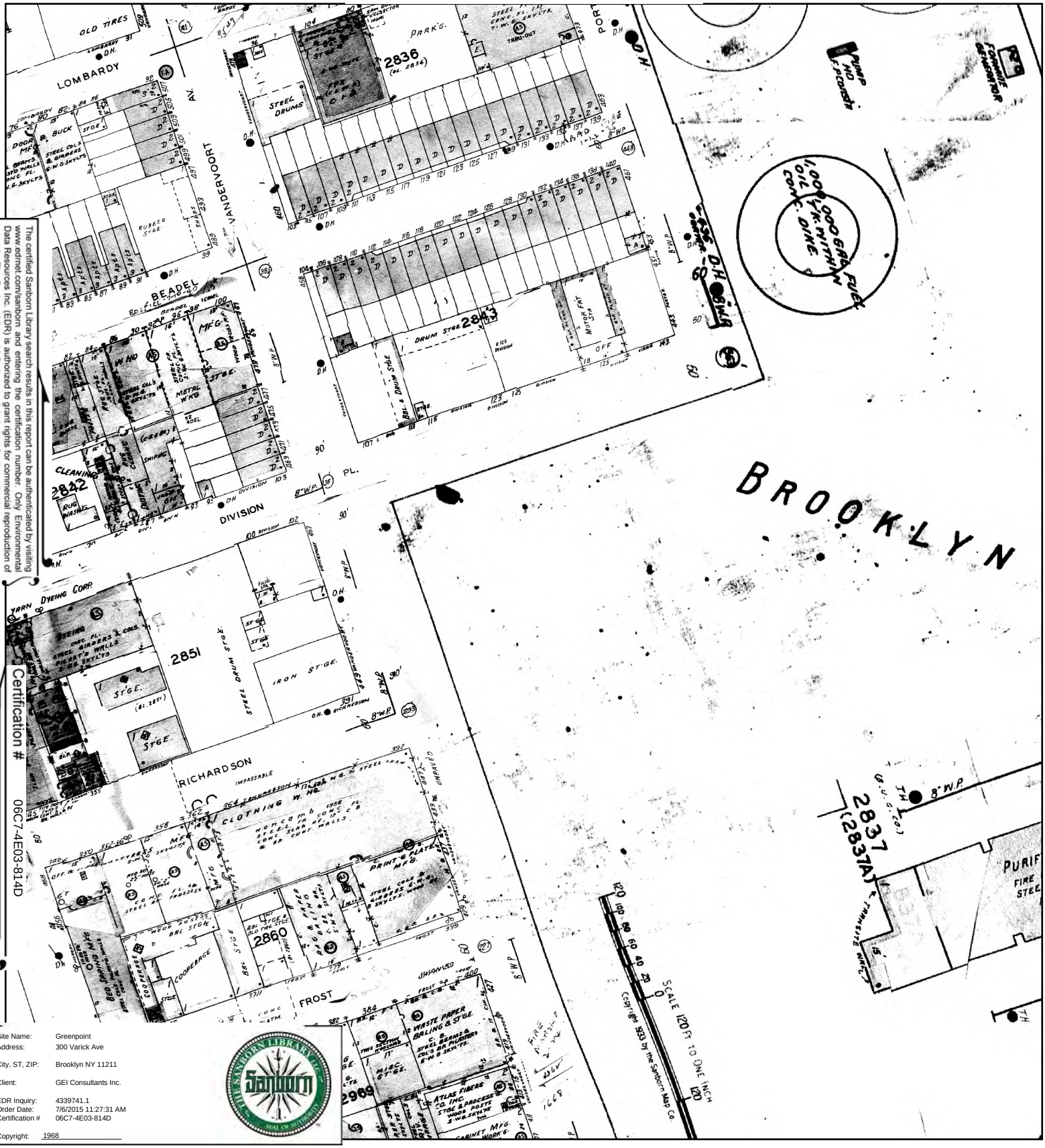
1968 Certified Sanborn Map



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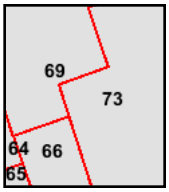

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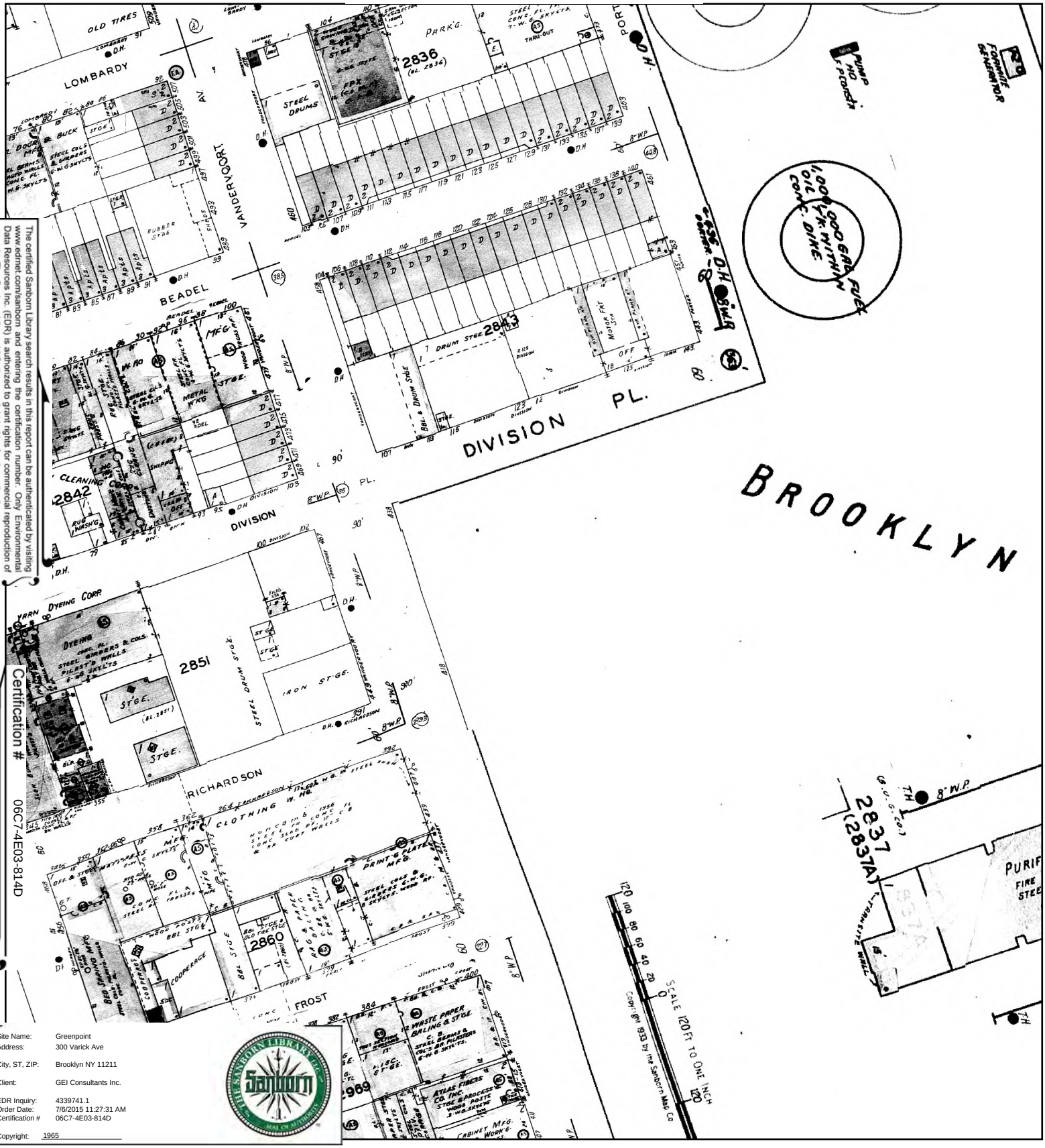
1965 Certified Sanborn Map



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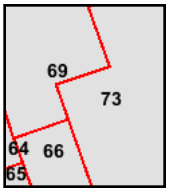

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Volume 9, Sheet 73

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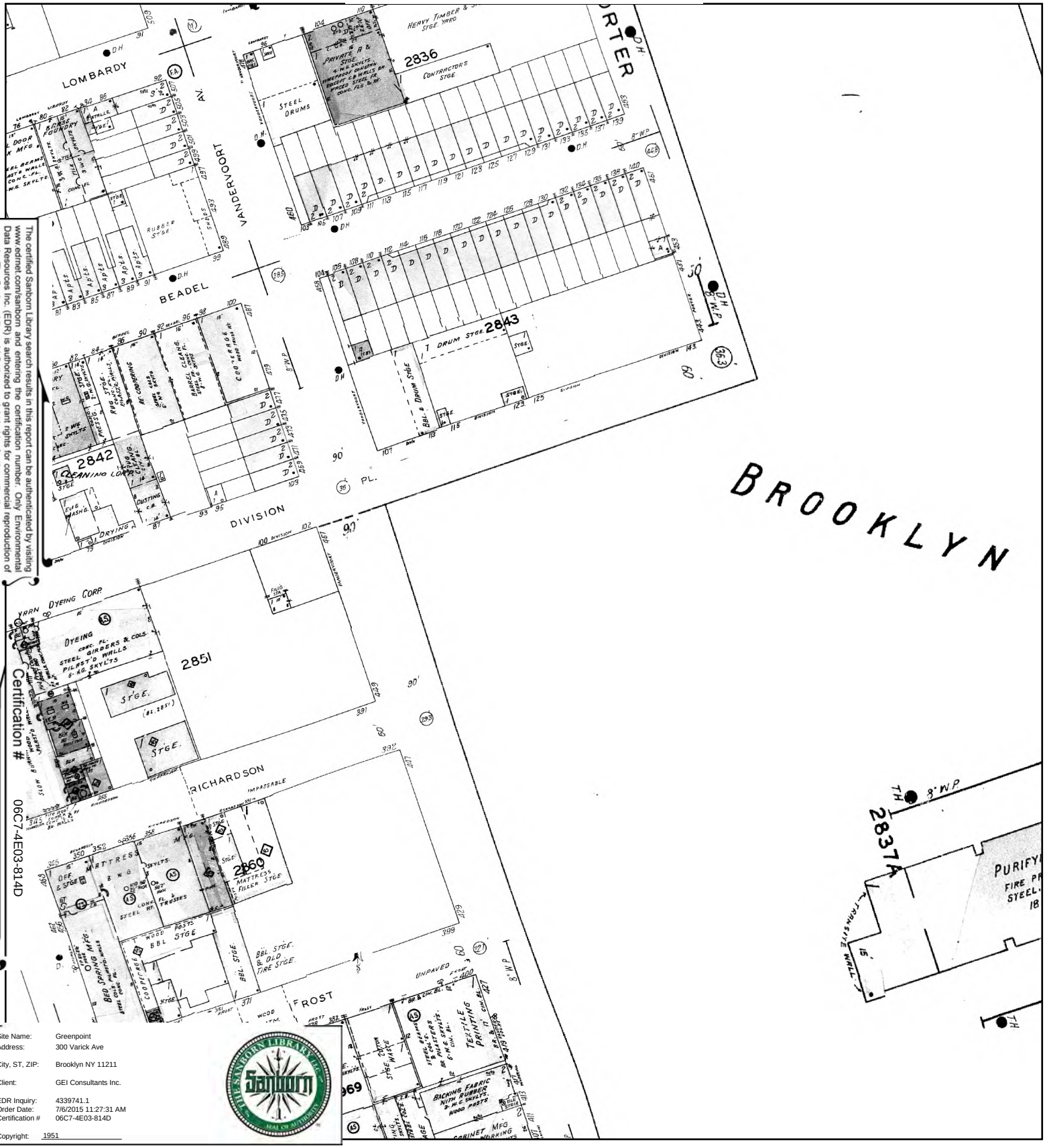
1951 Certified Sanborn Map



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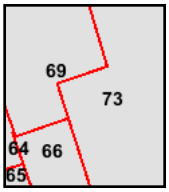

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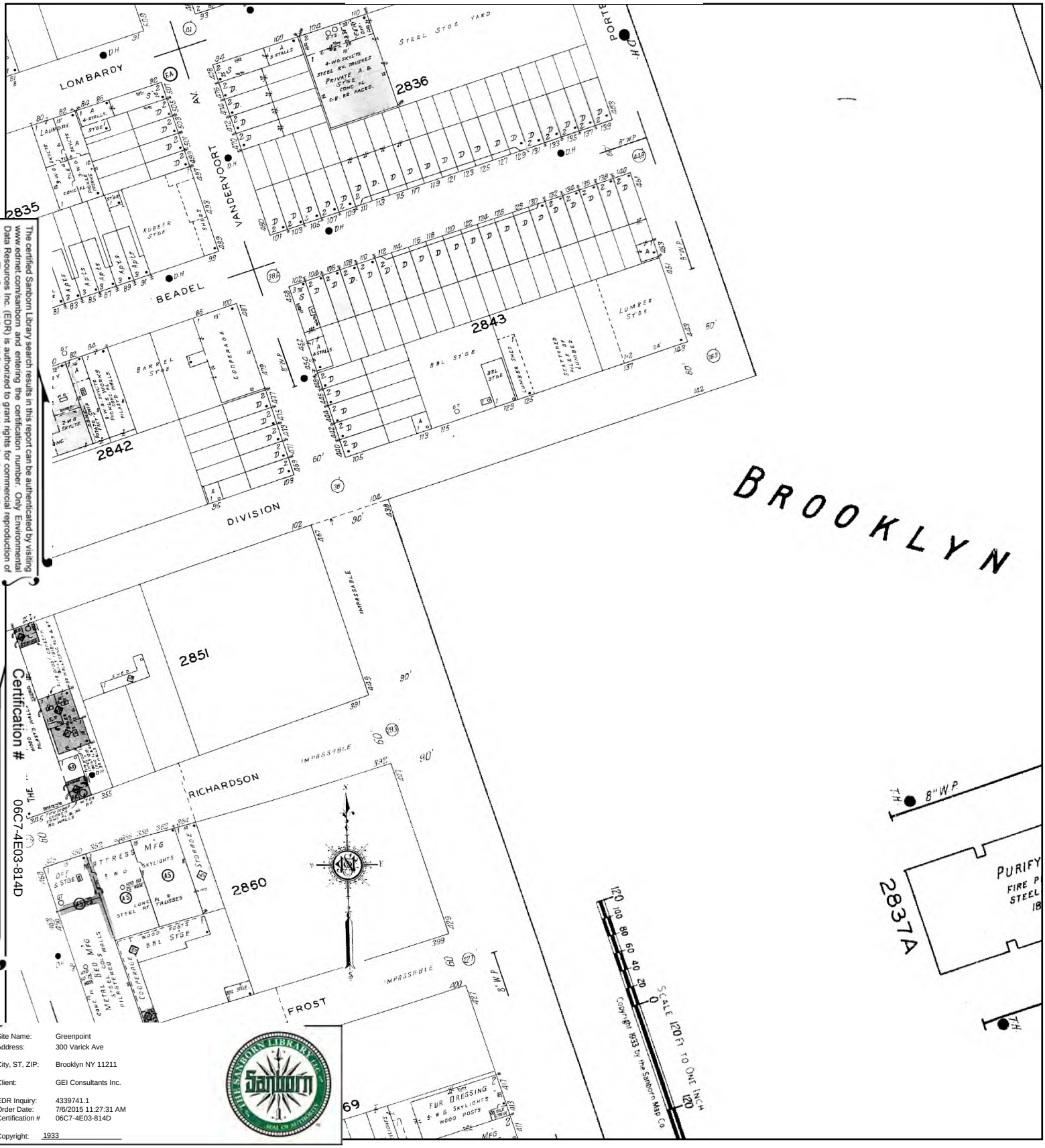
1933 Certified Sanborn Map



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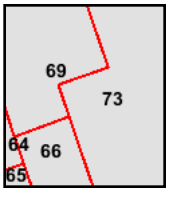

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1907 Certified Sanborn Map



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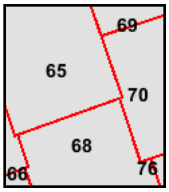

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Volume 9, Sheet 69
Volume 9, Sheet 70

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1888 Certified Sanborn Map



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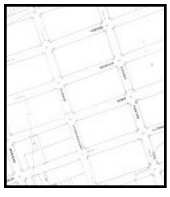

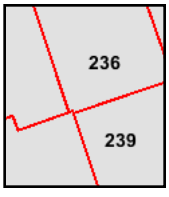

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Volume 9, Sheet 236
Volume 9, Sheet 239
Volume 9, Sheet 239

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

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Shelton, Connecticut 06484
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Certified Sanborn® Map Report

7/06/15

Site Name:
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300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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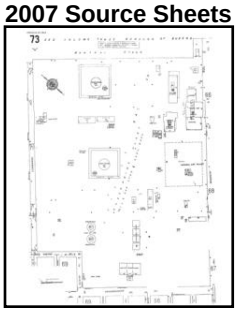
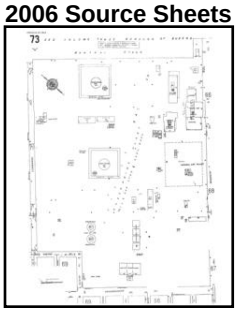


Volume 9, Sheet 73

2006 Source Sheets



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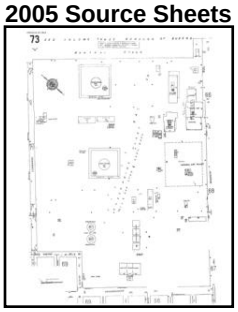

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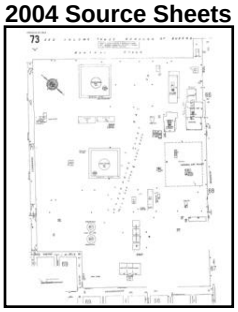
2004 Source Sheets



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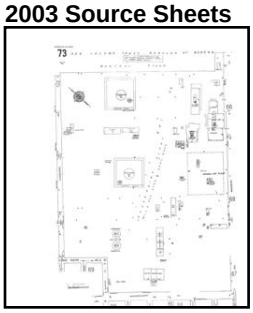

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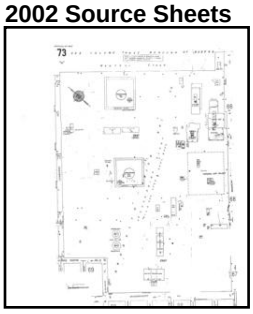
2002 Source Sheets



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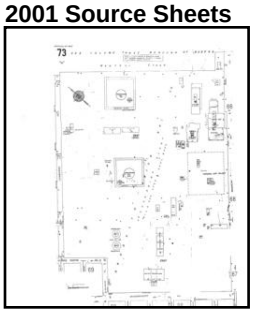
2001 Source Sheets



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1995 Source Sheets



Volume 9, Sheet 73

1994 Source Sheets



Volume 9, Sheet 73

1993 Source Sheets



Volume 9, Sheet 73



Volume 9, Sheet 73

1992 Source Sheets



Volume 9, Sheet 73

1991 Source Sheets



Volume 9, Sheet 73

1990 Source Sheets



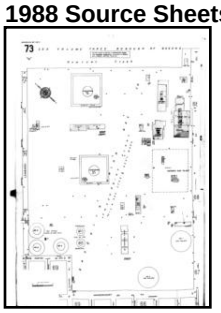
Volume 9, Sheet 73

1989 Source Sheets



Volume 9, Sheet 73

1988 Source Sheets



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1987 Source Sheets



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1986 Source Sheets



Volume 9, Sheet 73

1982 Source Sheets



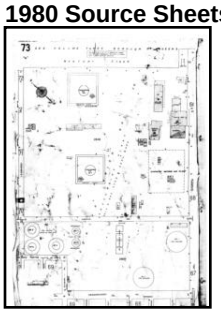
Volume 9, Sheet 73

1981 Source Sheets



Volume 9, Sheet 73

1980 Source Sheets



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1977 Source Sheets



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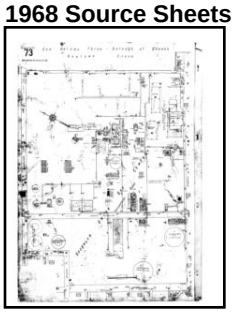

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1965 Source Sheets



Volume 9, Sheet 73

1951 Source Sheets



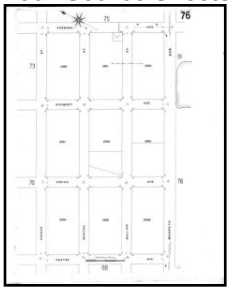
Volume 9, Sheet 73

1933 Source Sheets



Volume 9, Sheet 73

1907 Source Sheets



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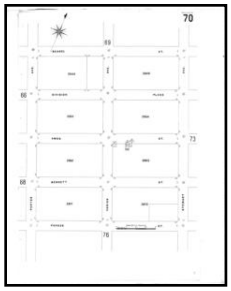

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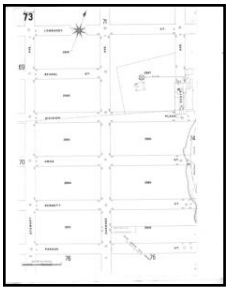

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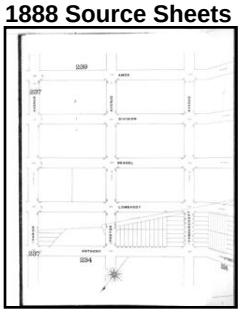
1888 Source Sheets



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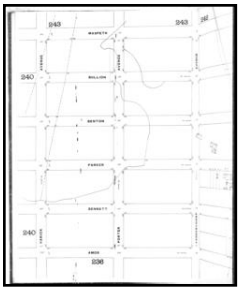

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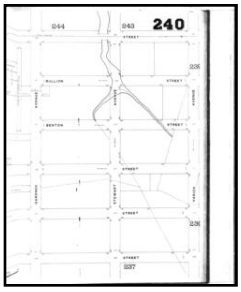

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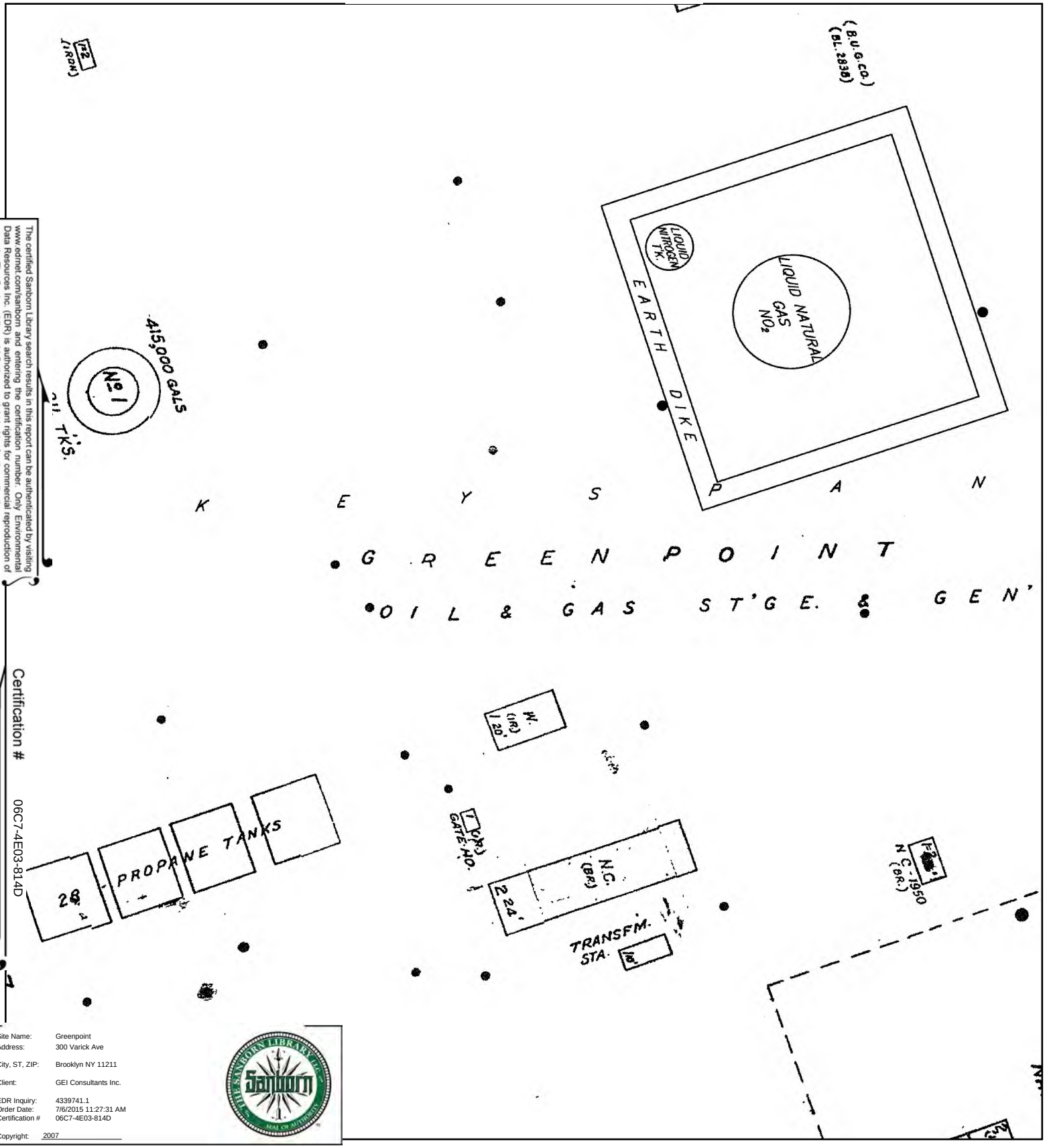

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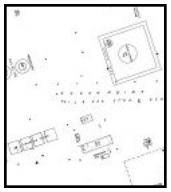

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Volume 9, Sheet 73

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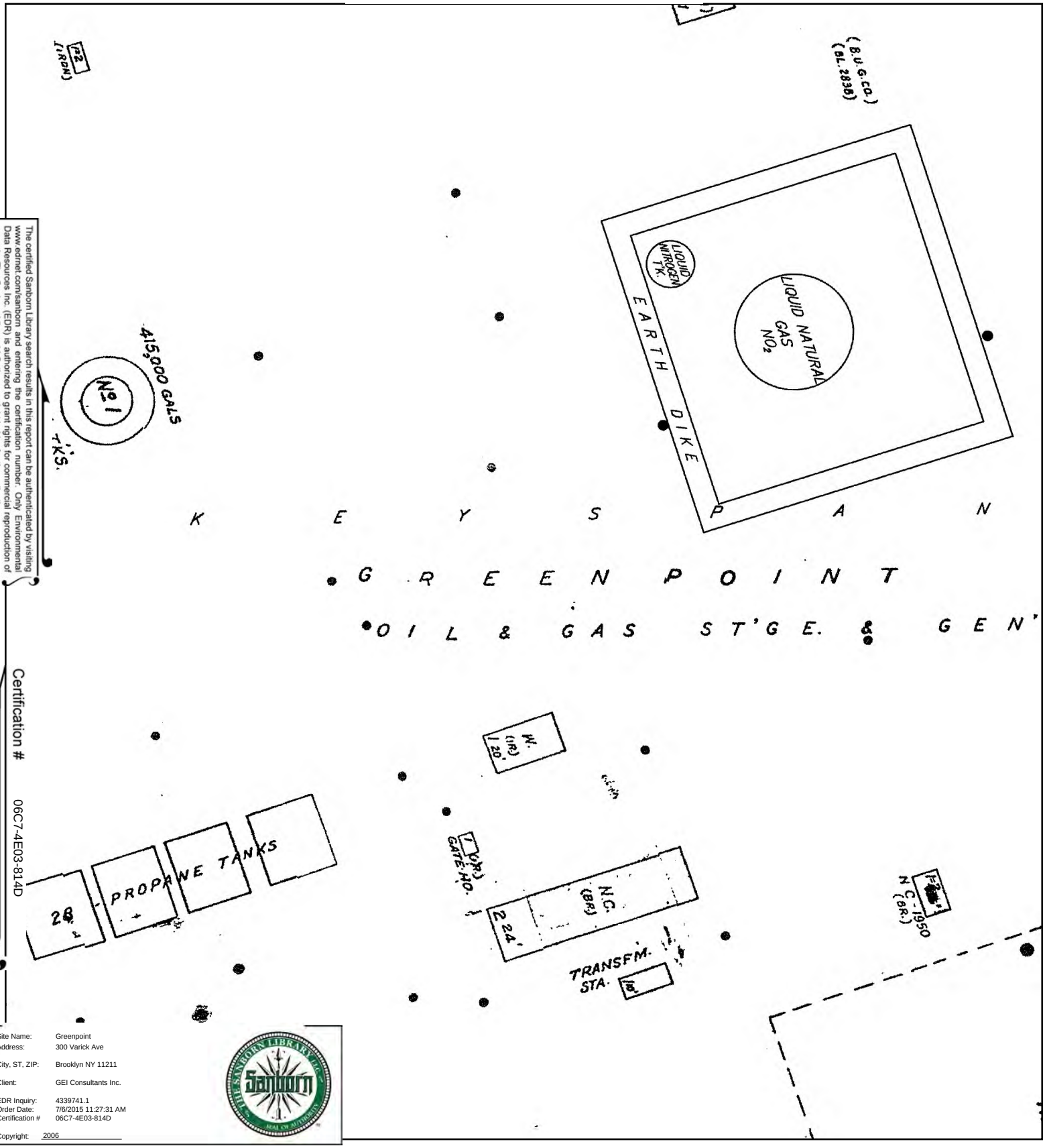
2006 Certified Sanborn Map



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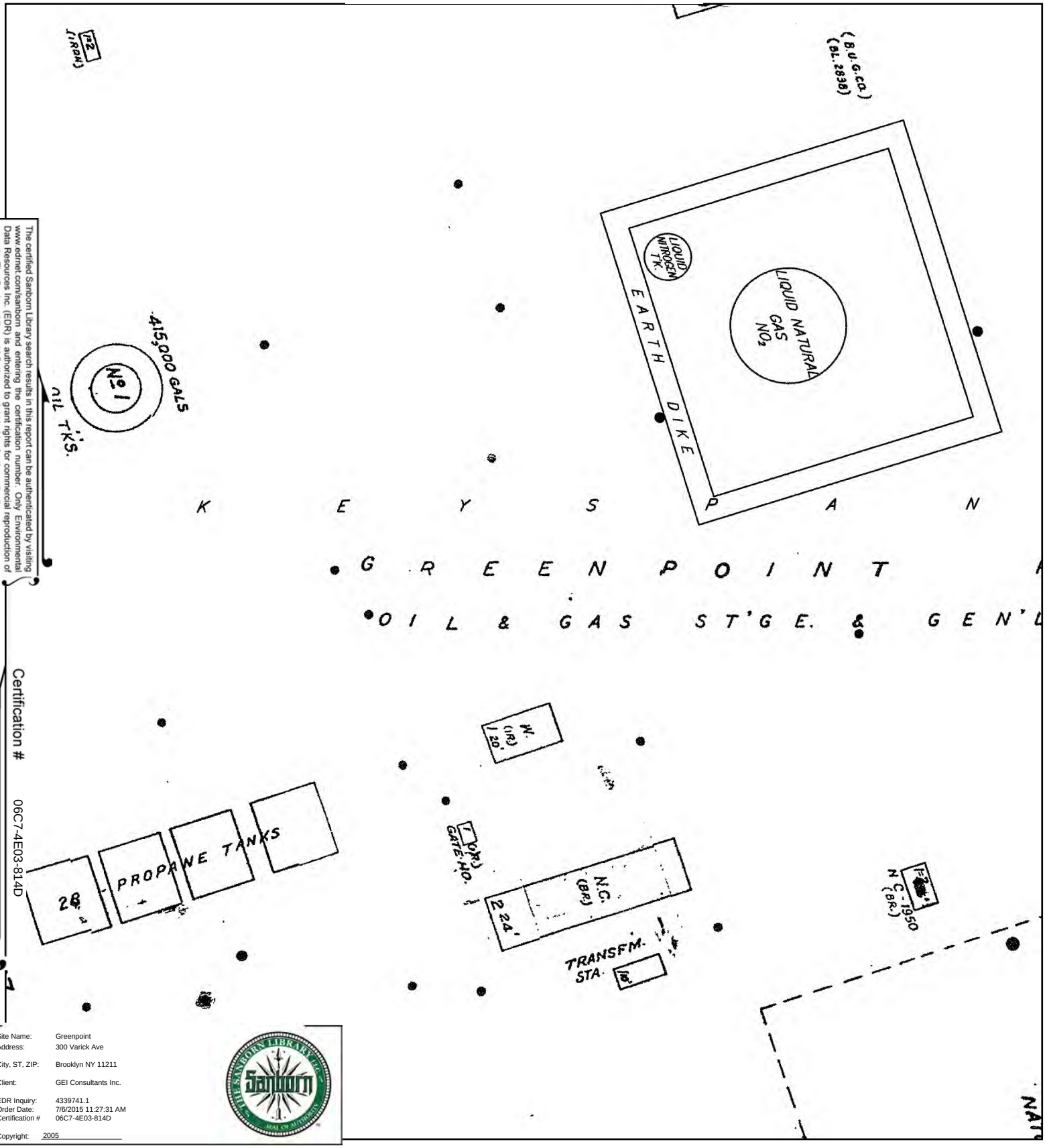

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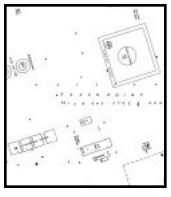

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Volume 9, Sheet 73

N

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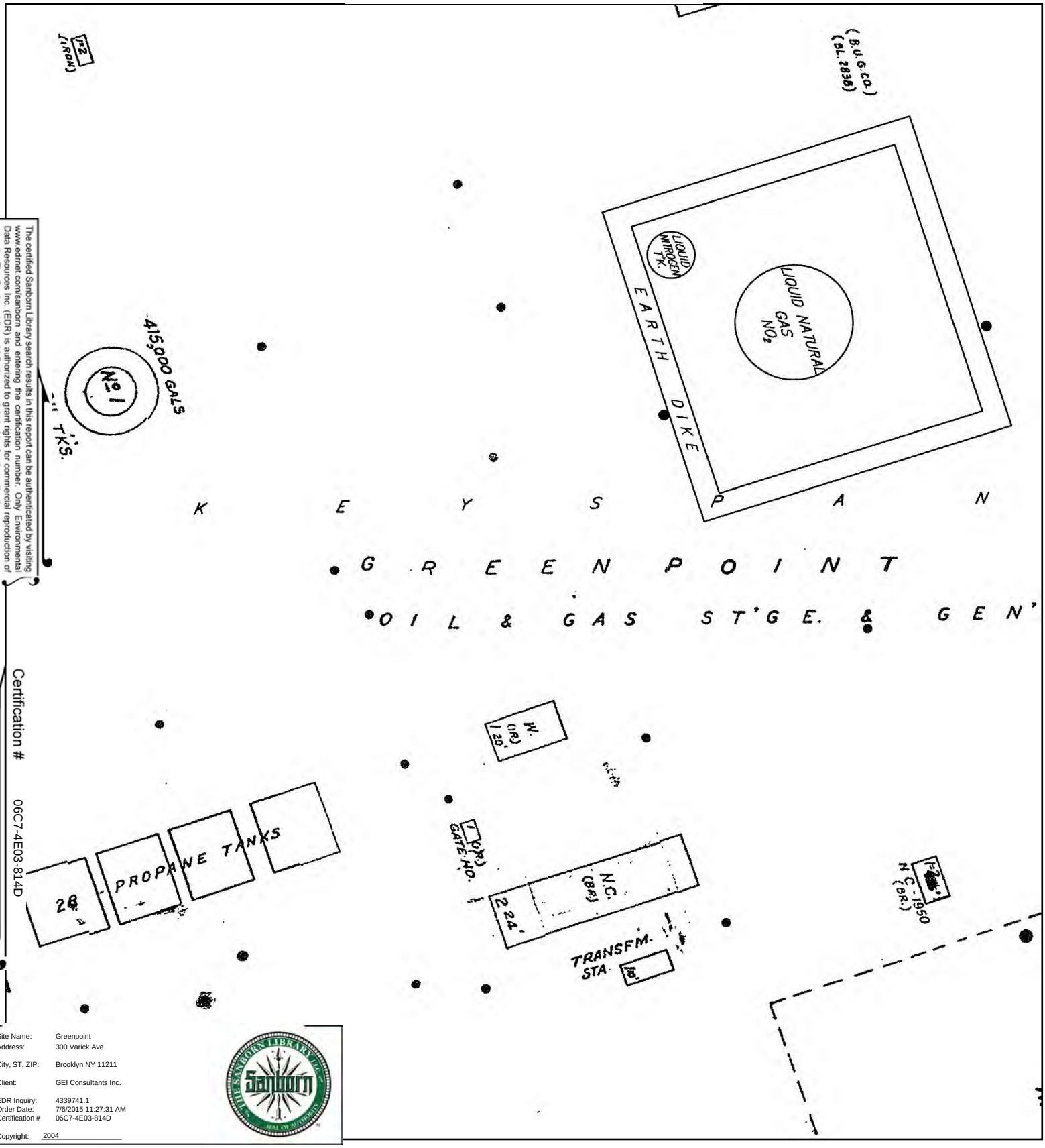

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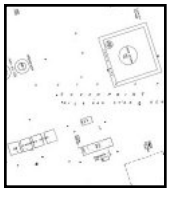

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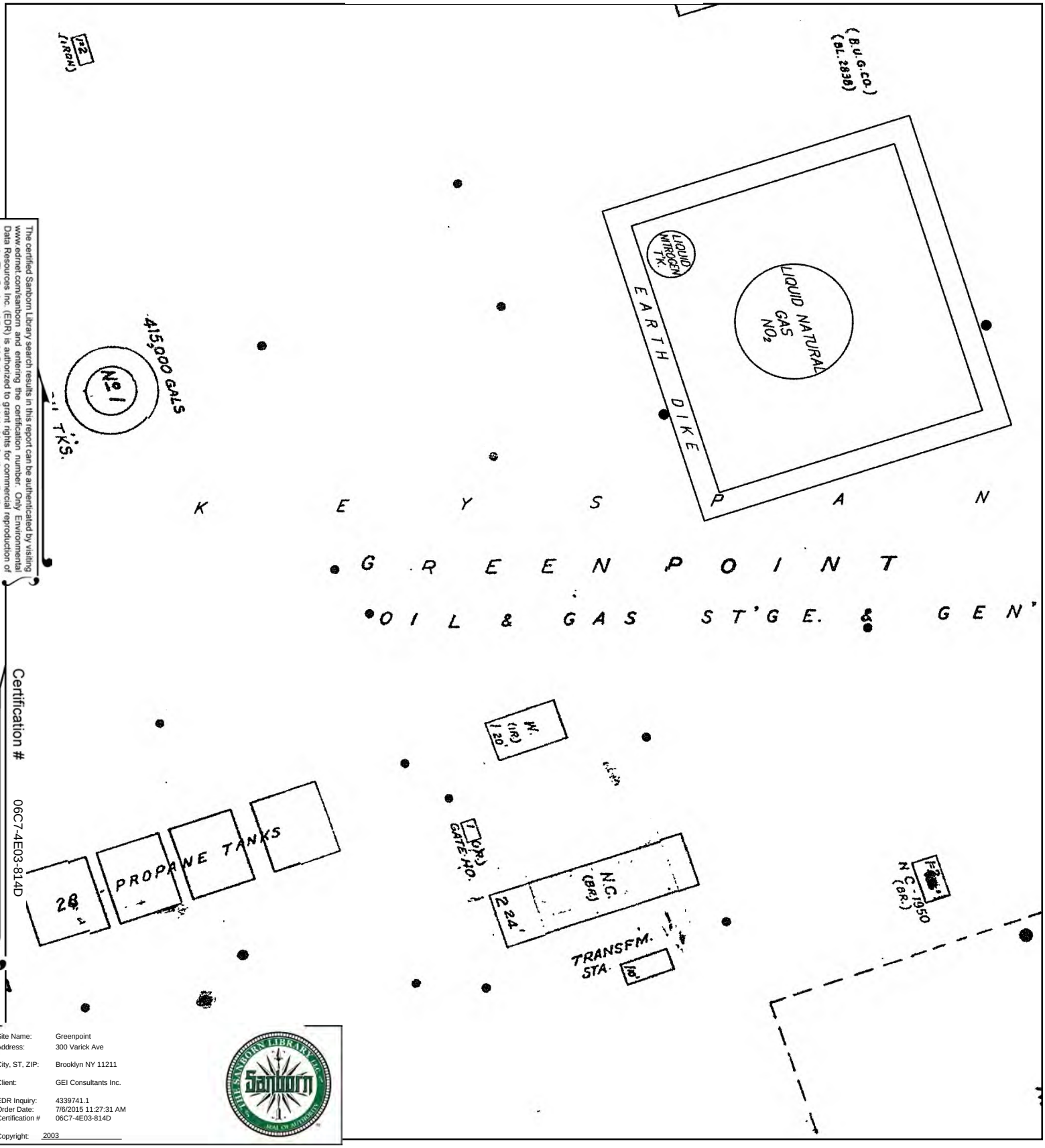

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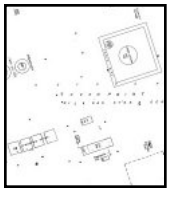

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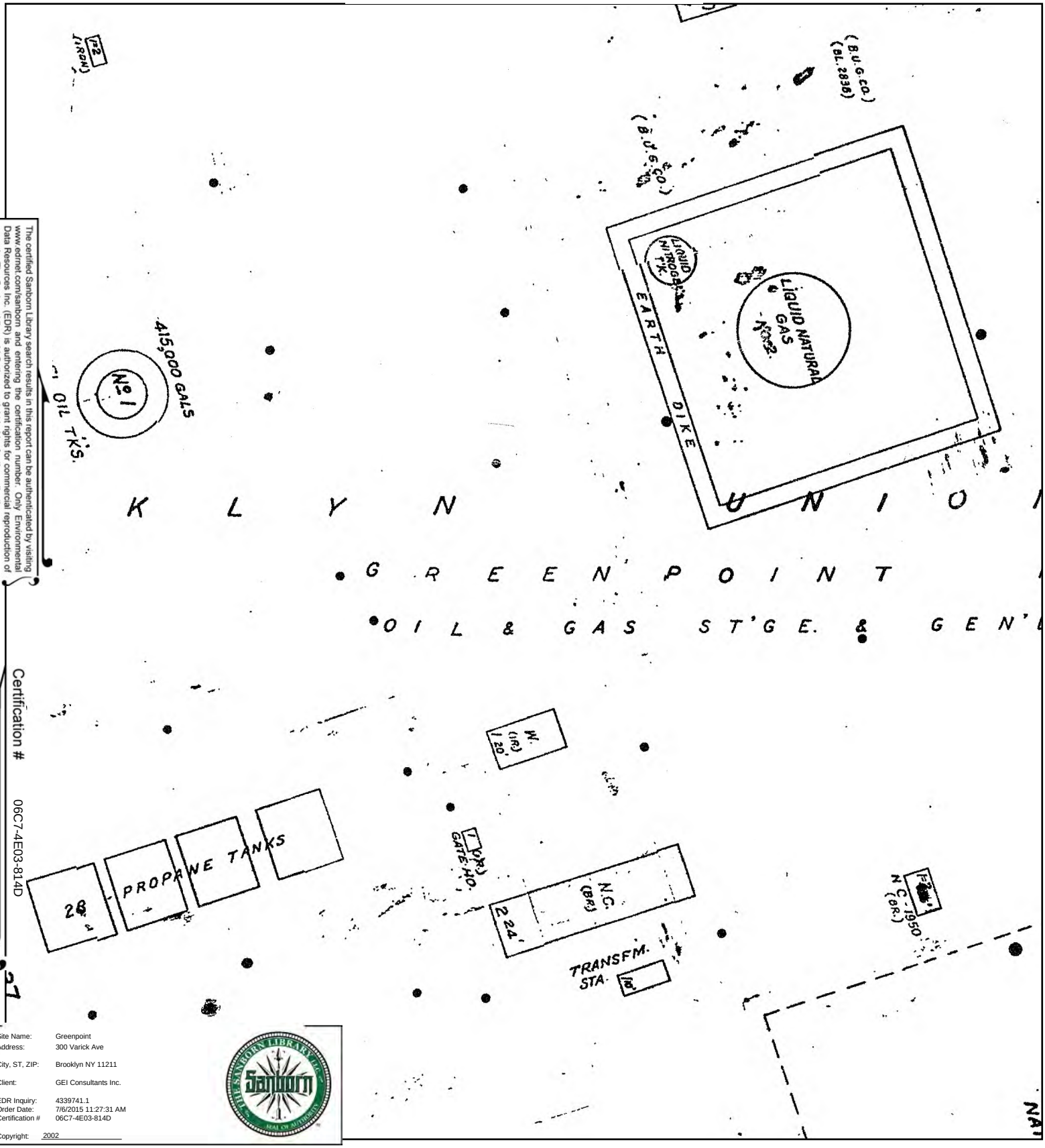

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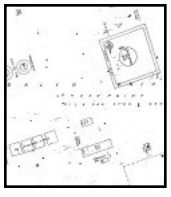

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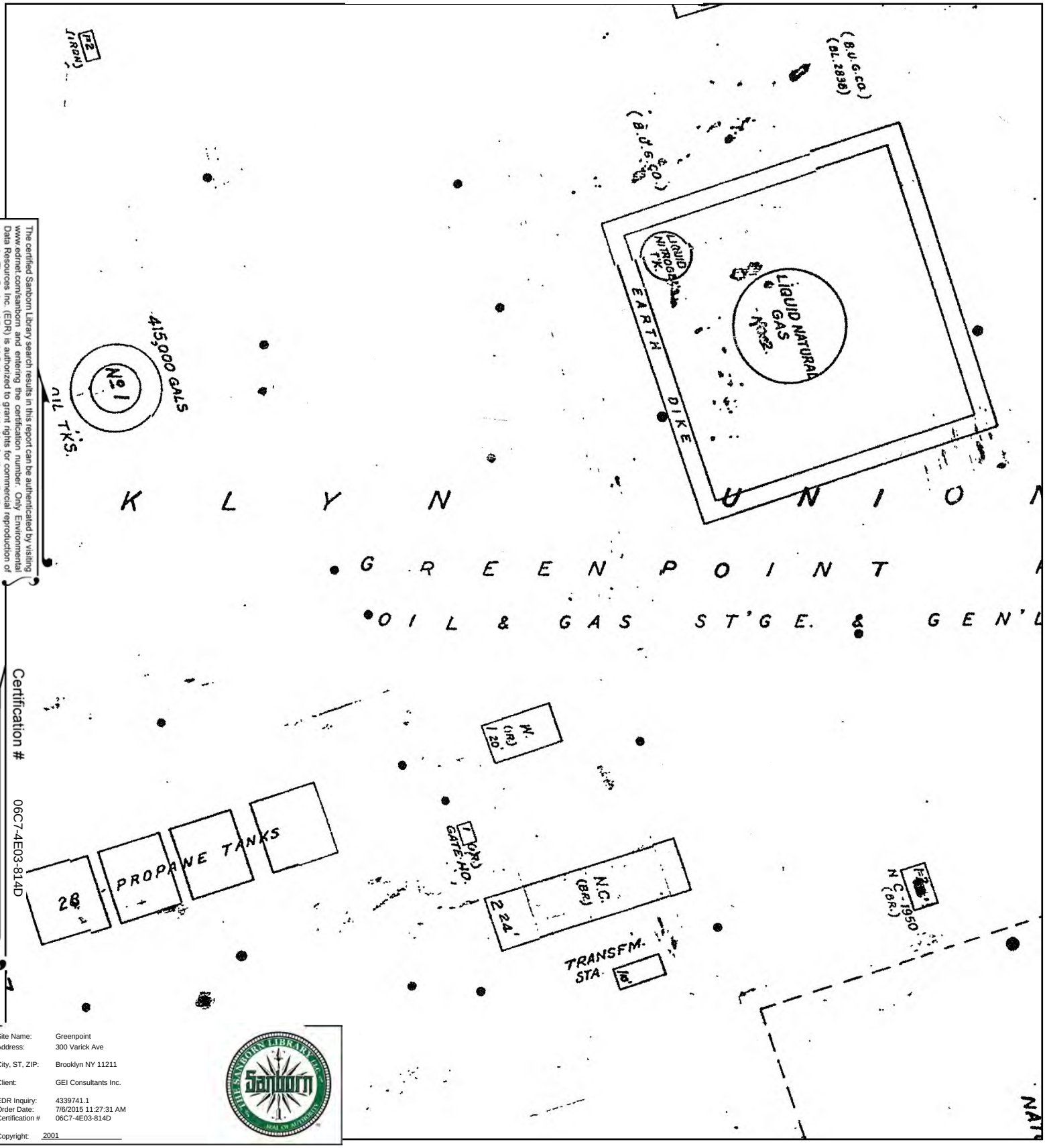

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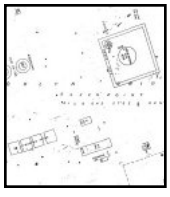

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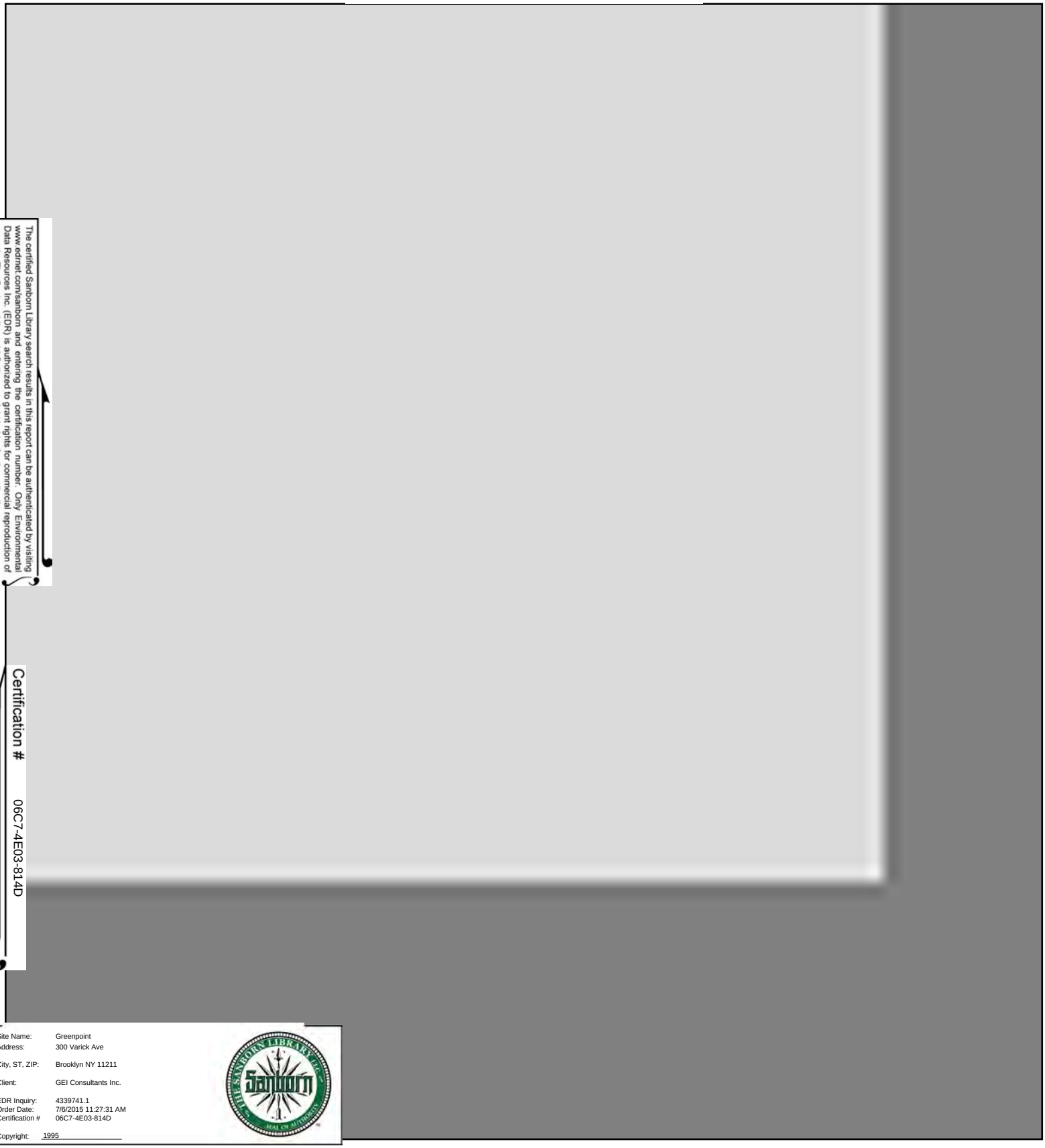

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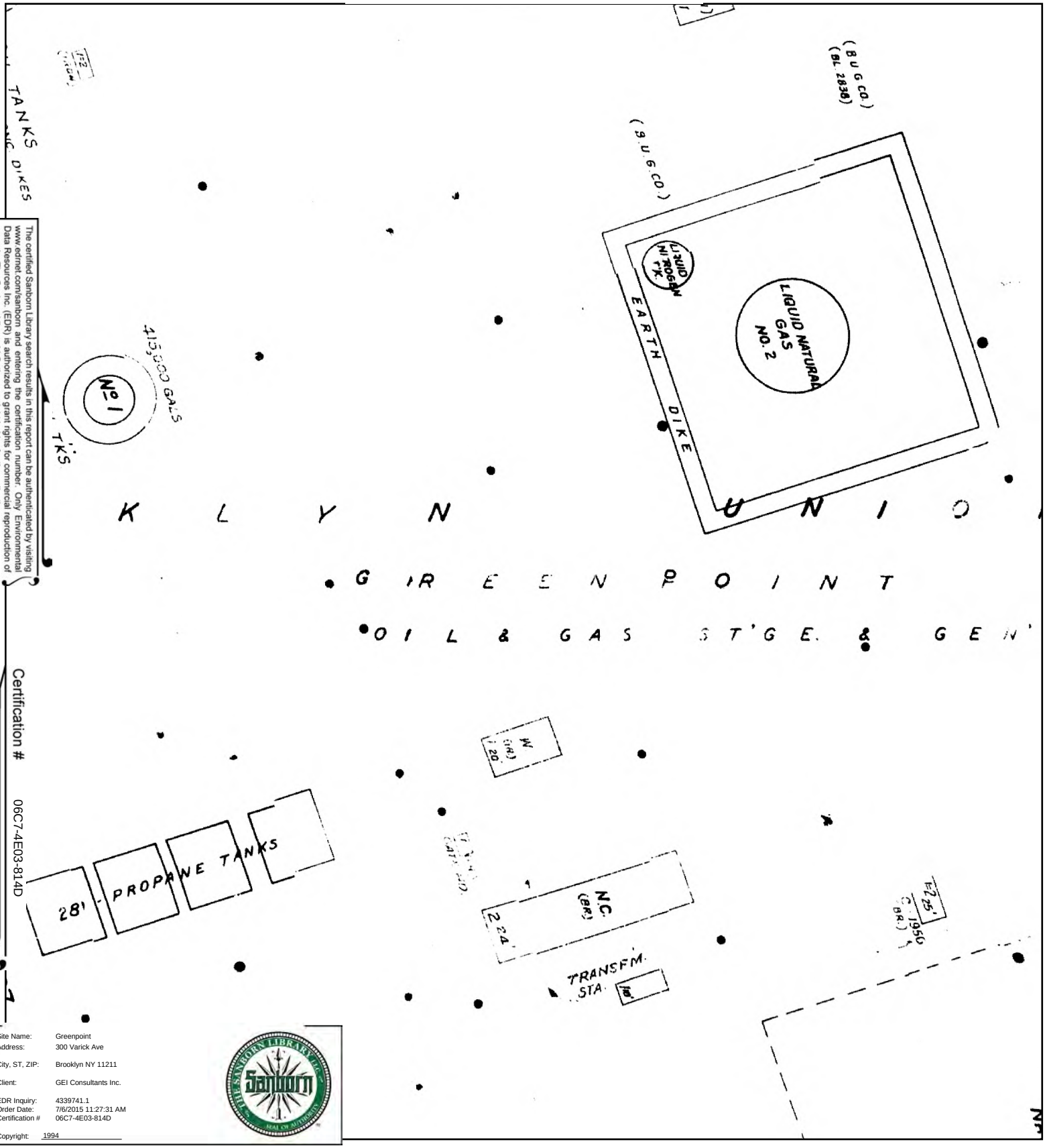

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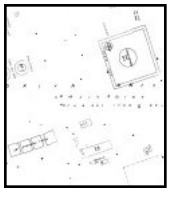

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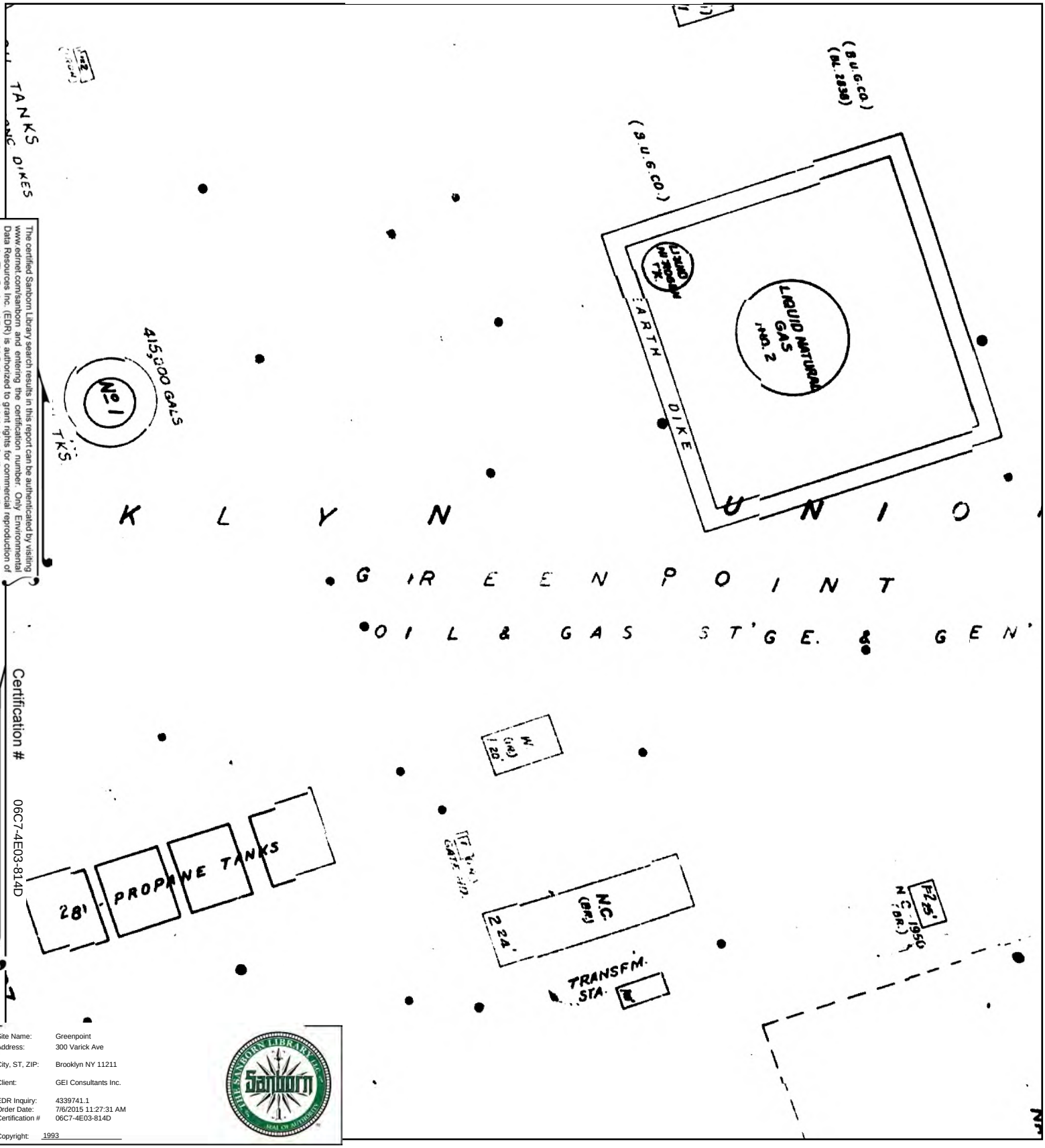

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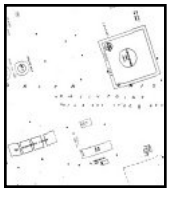

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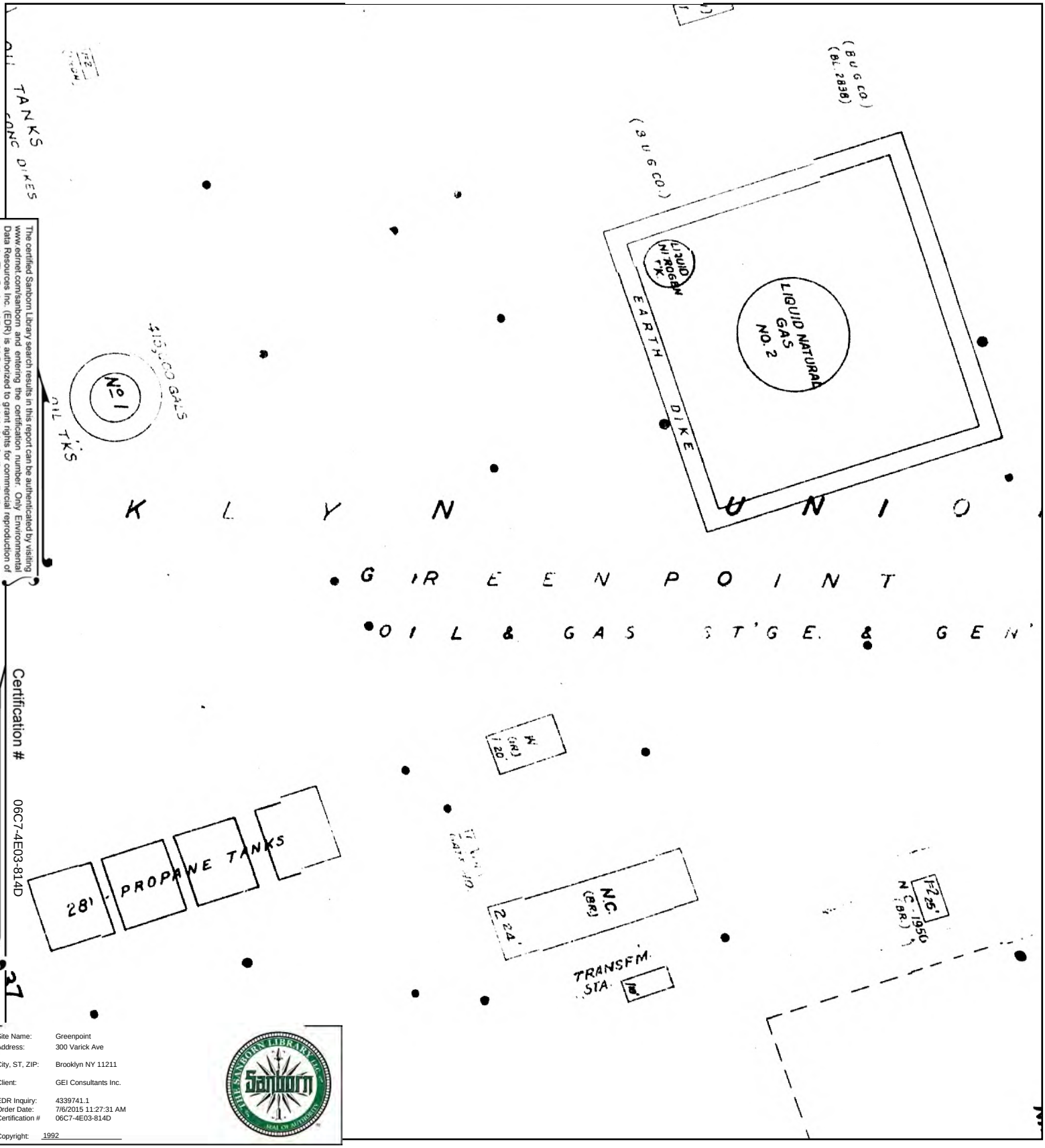

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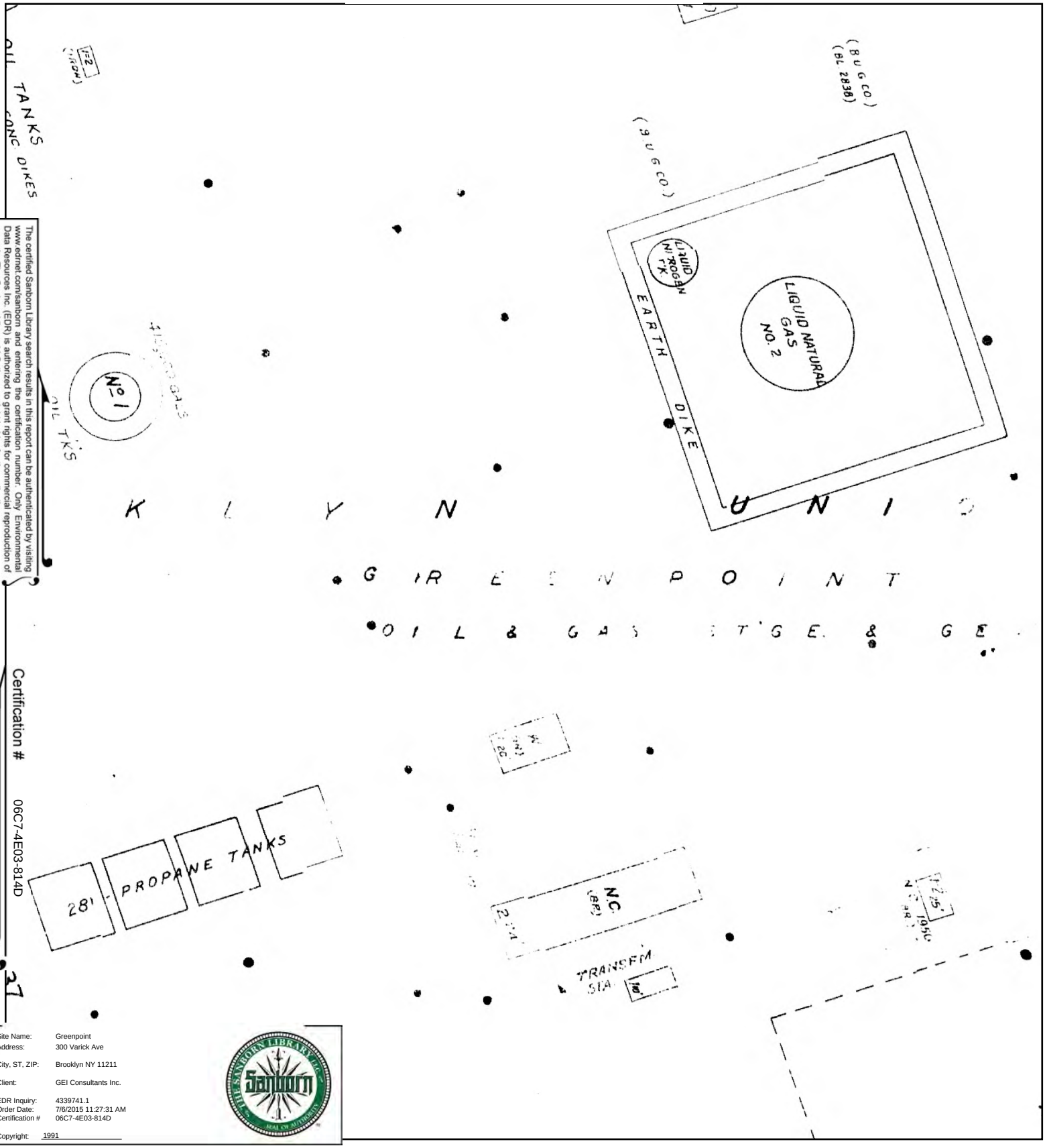

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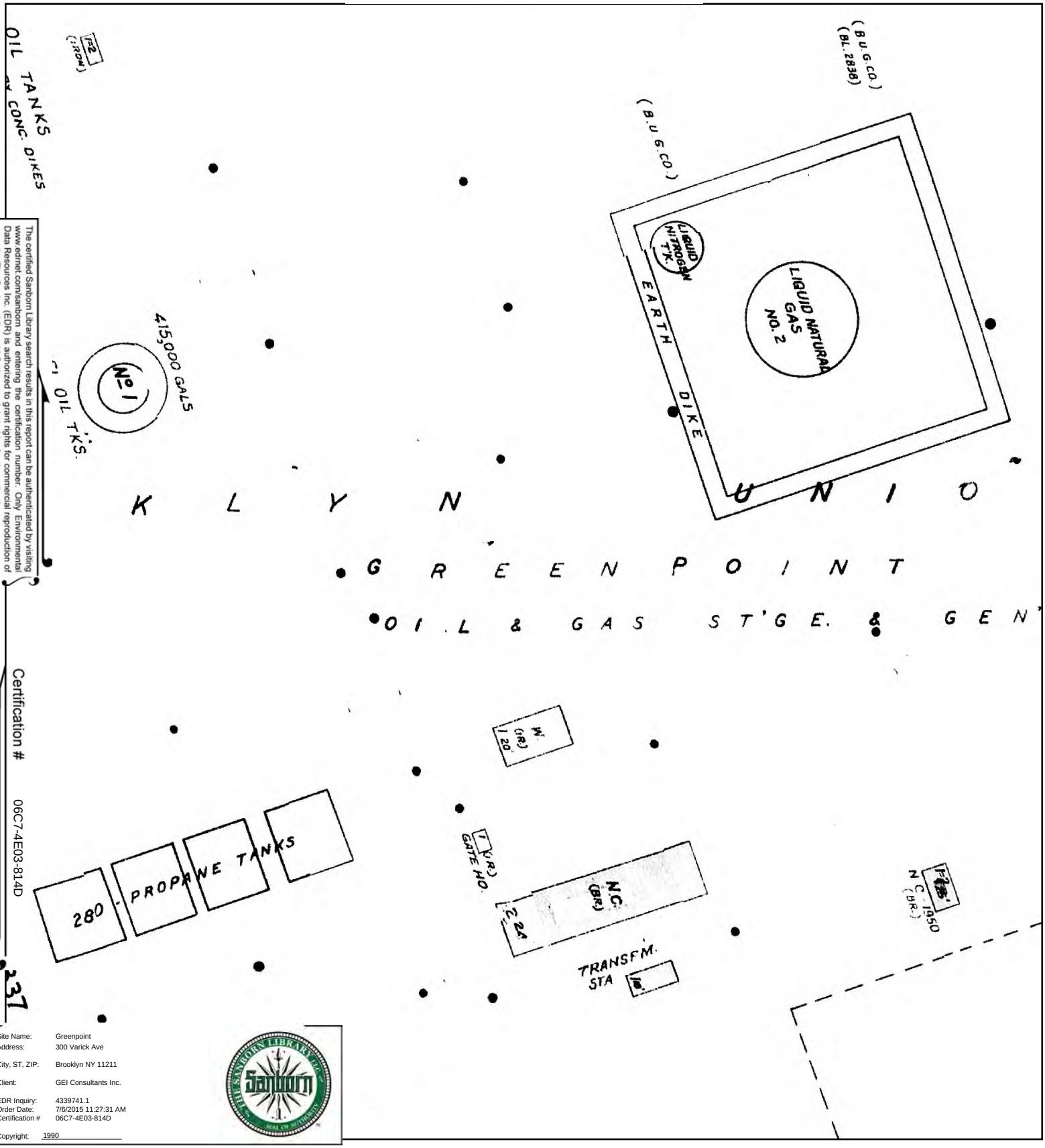

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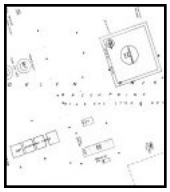

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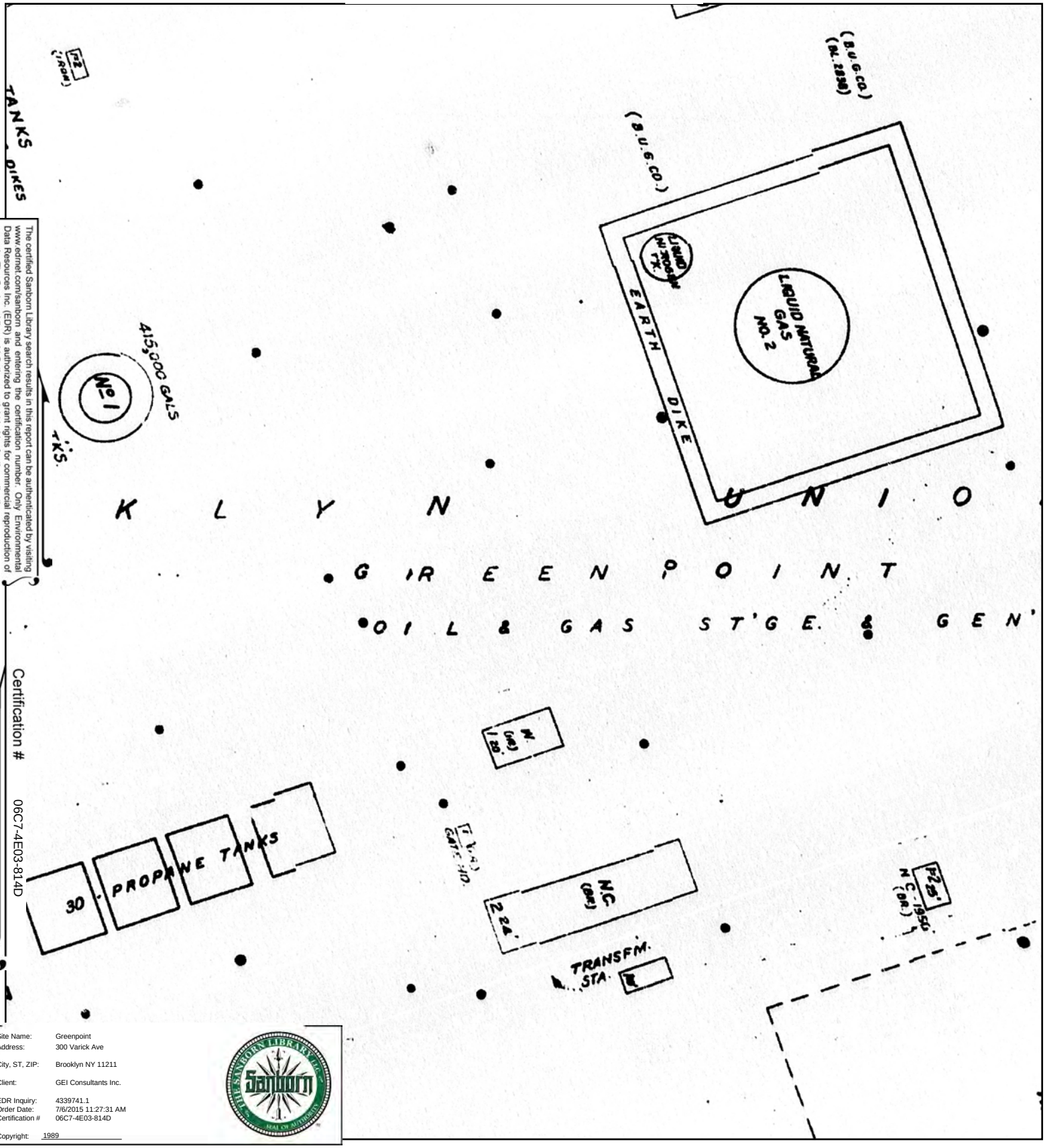

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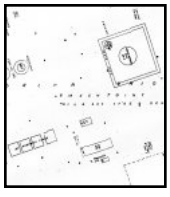

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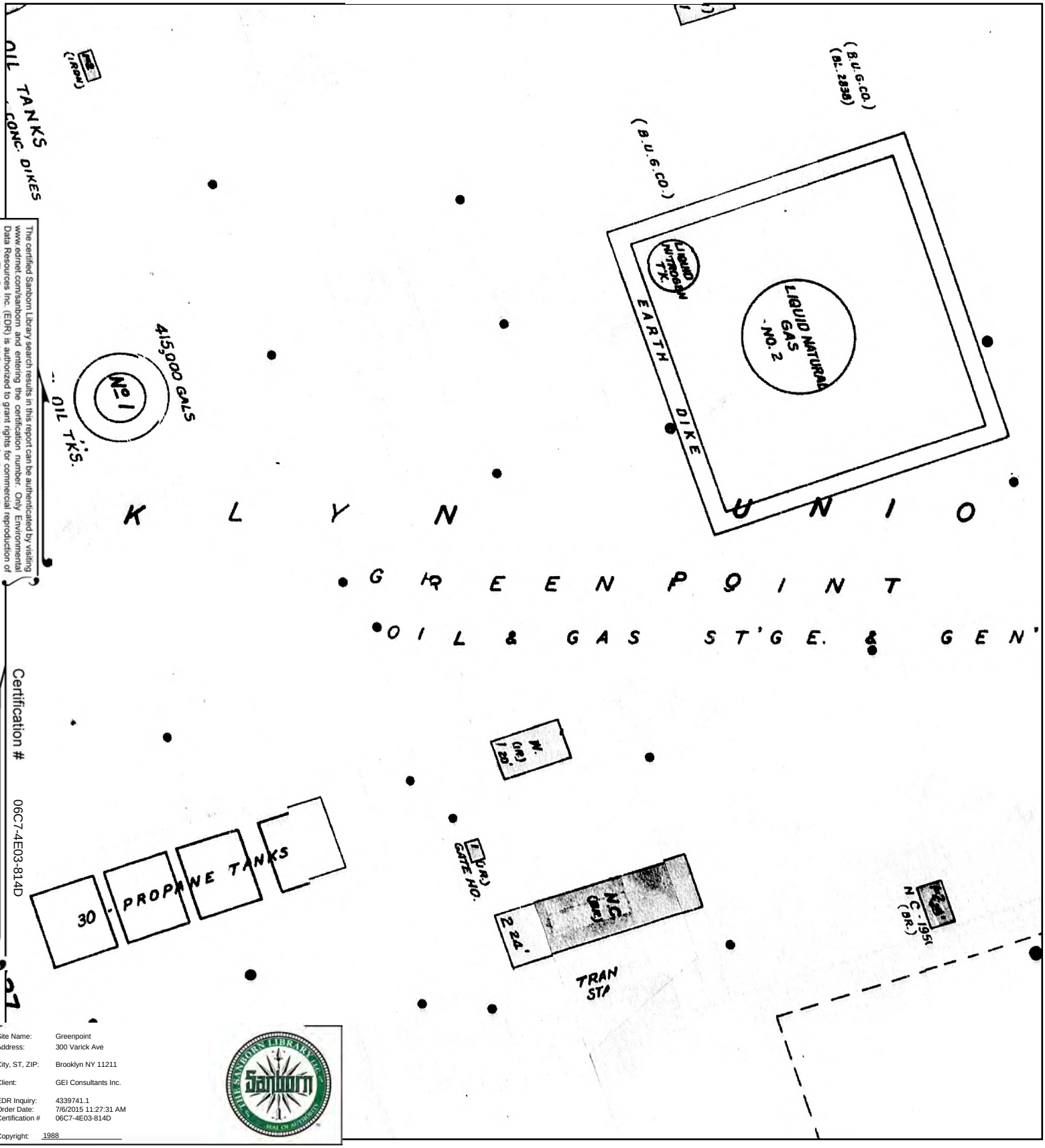

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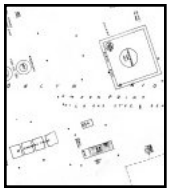

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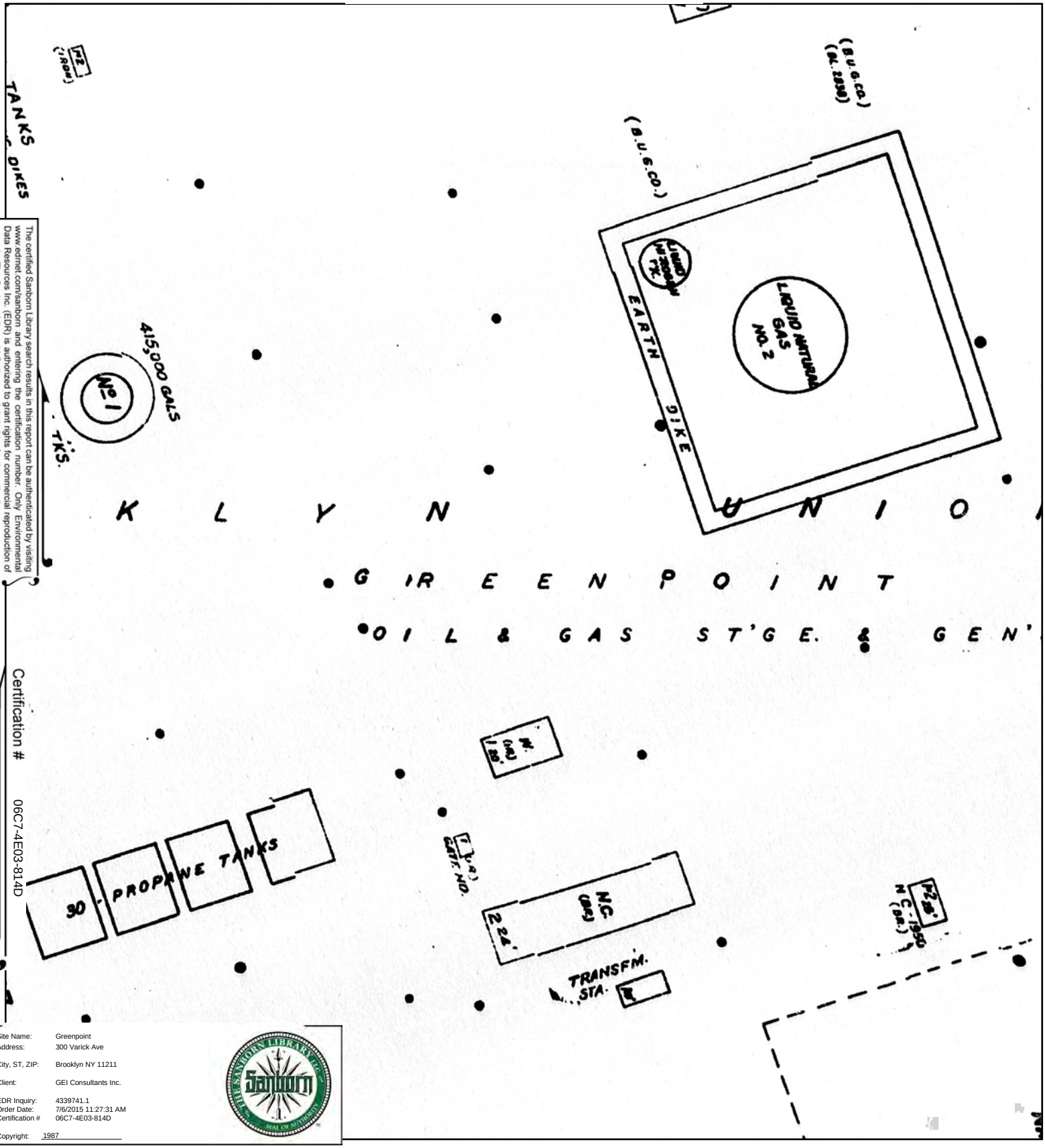

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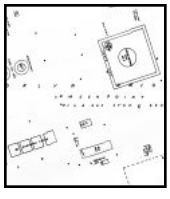

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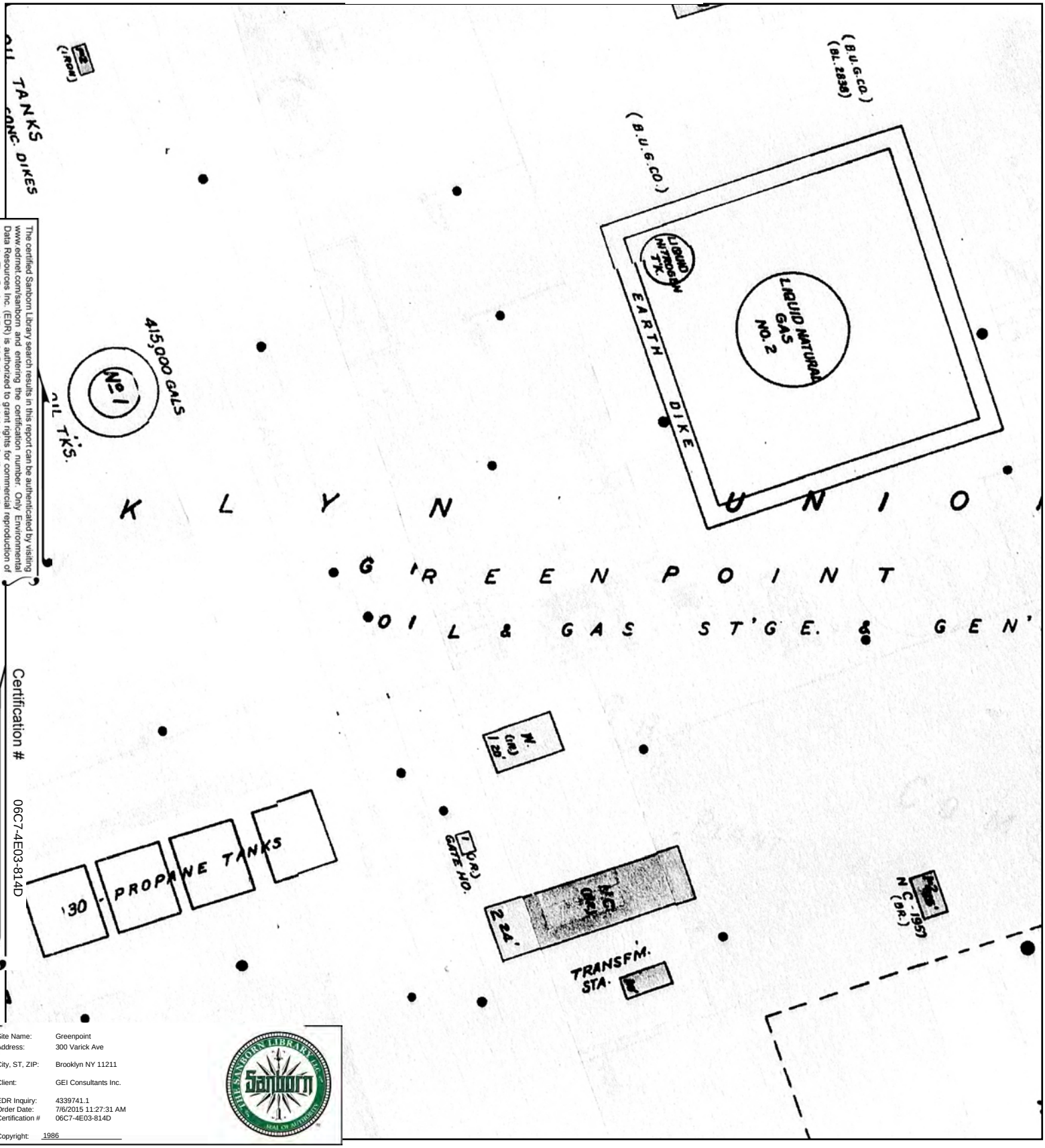

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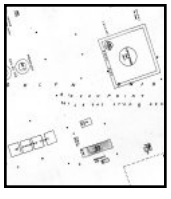

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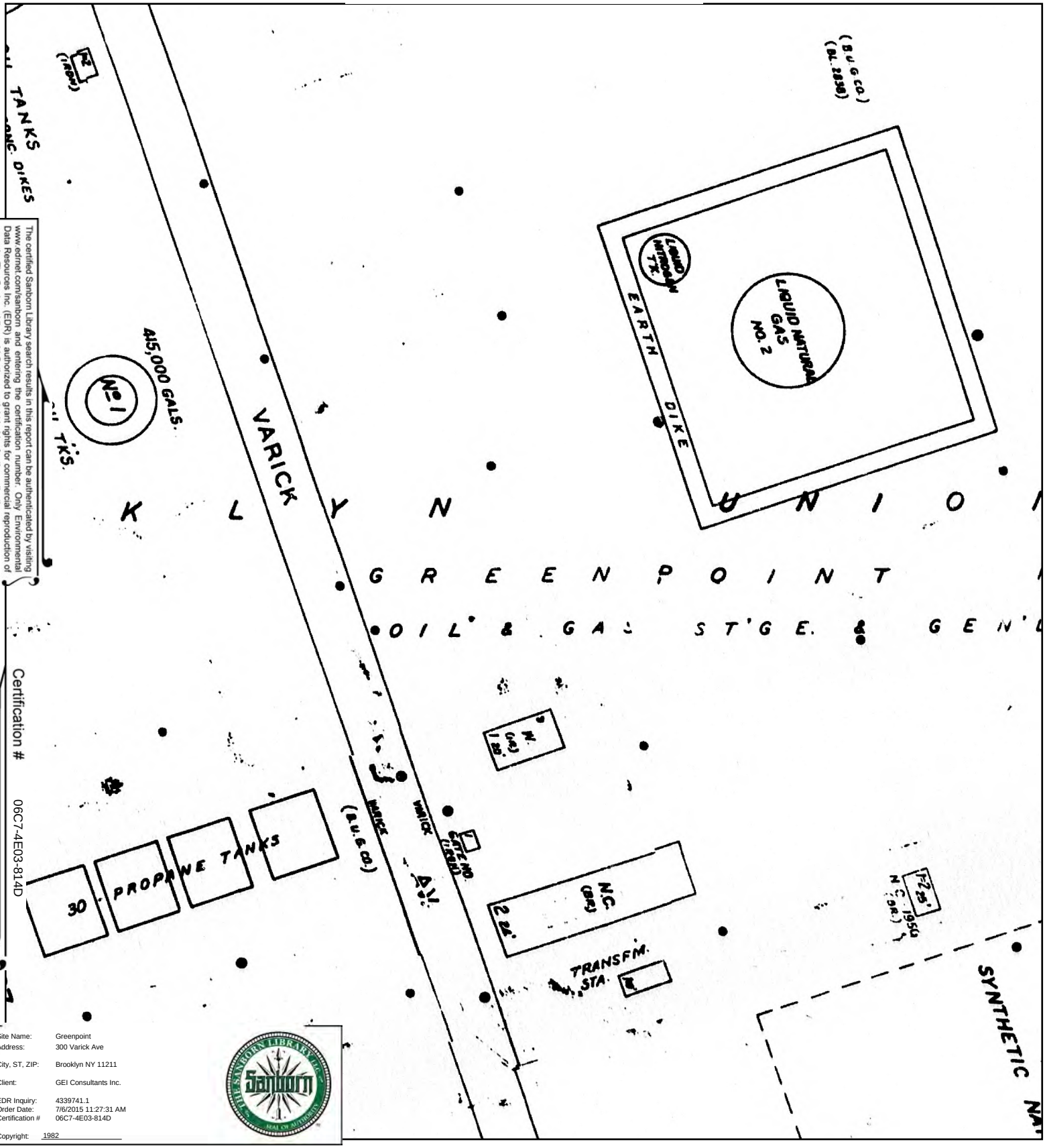

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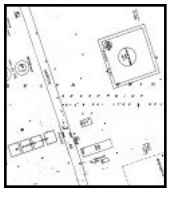

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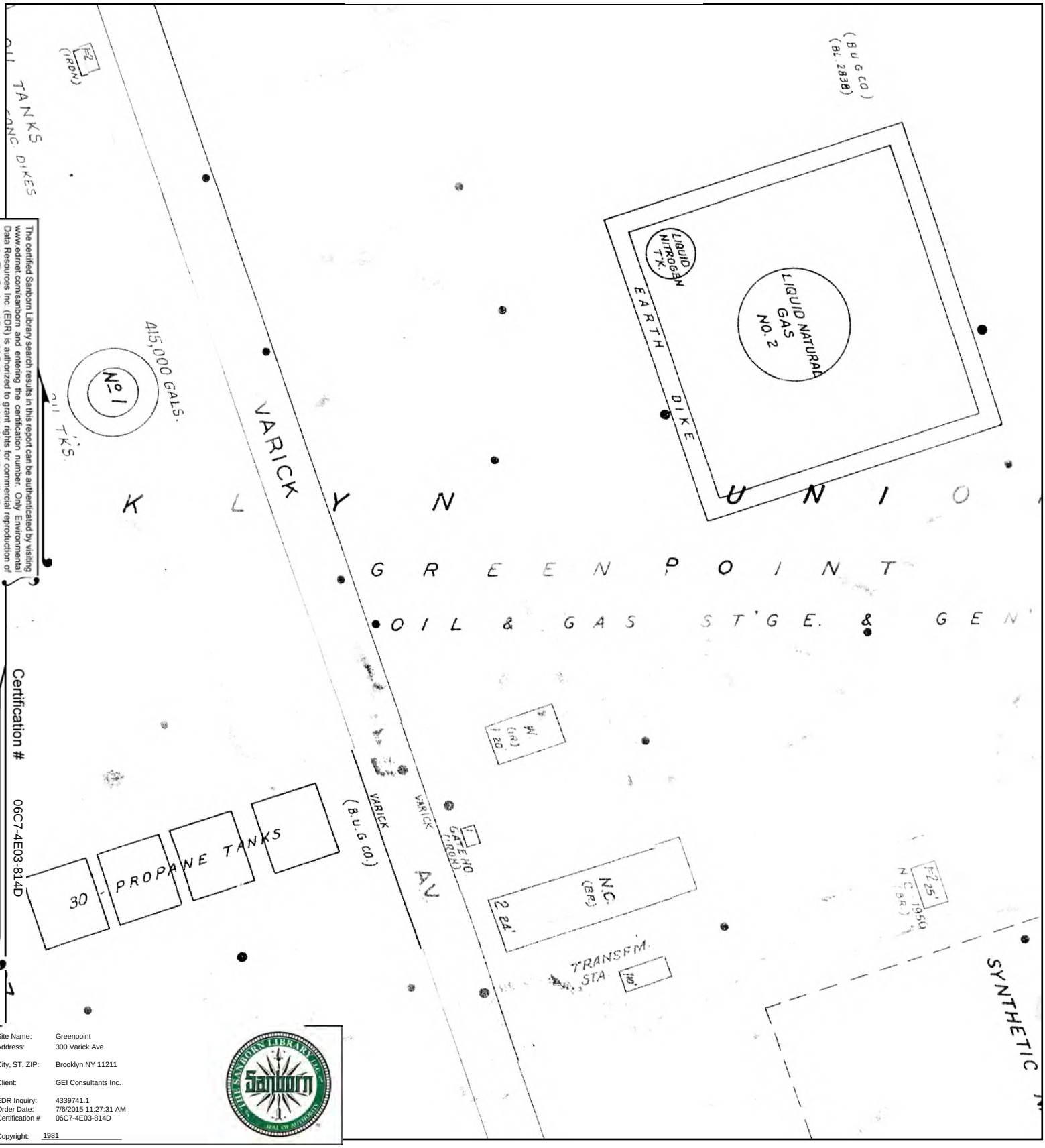

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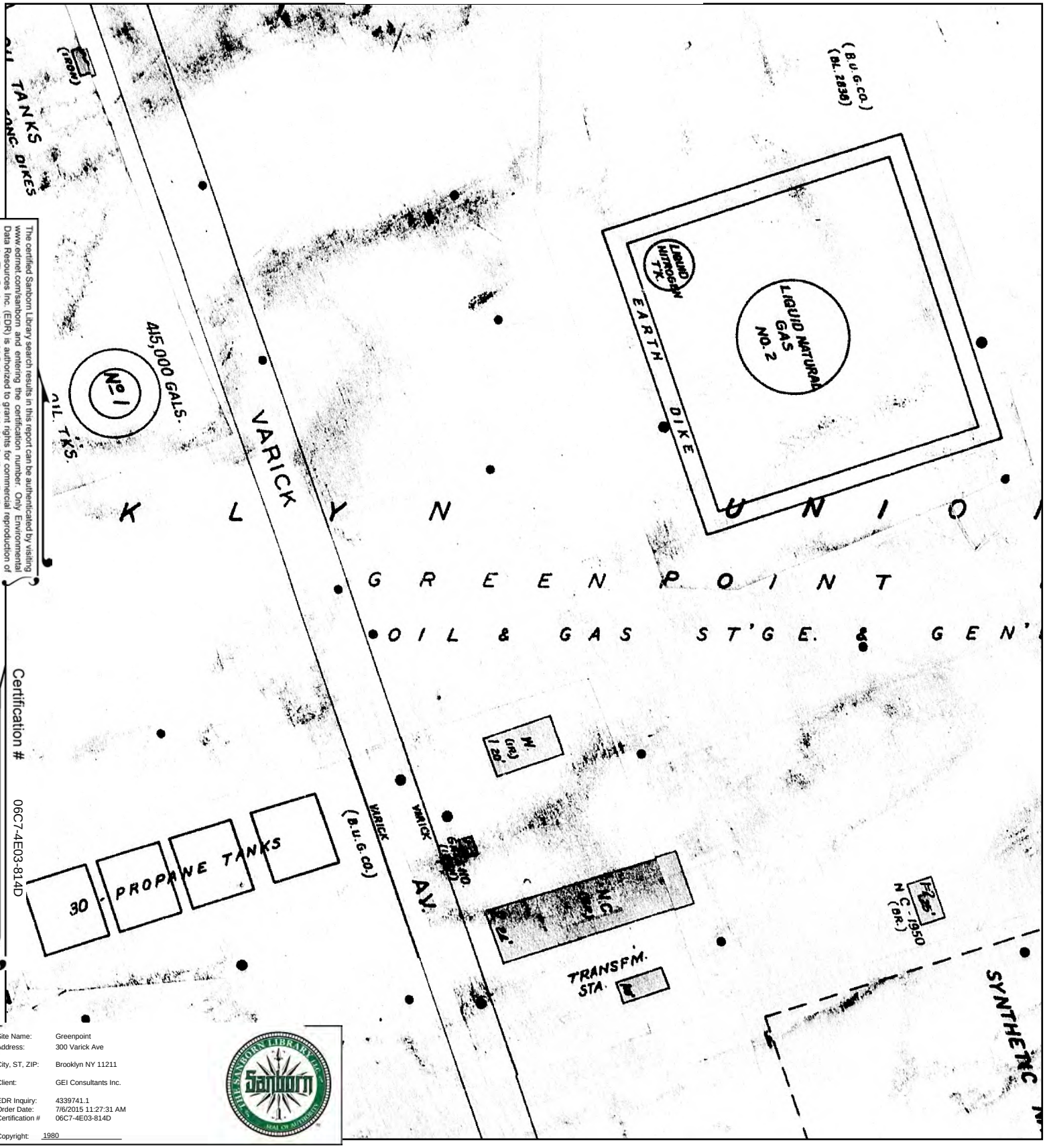

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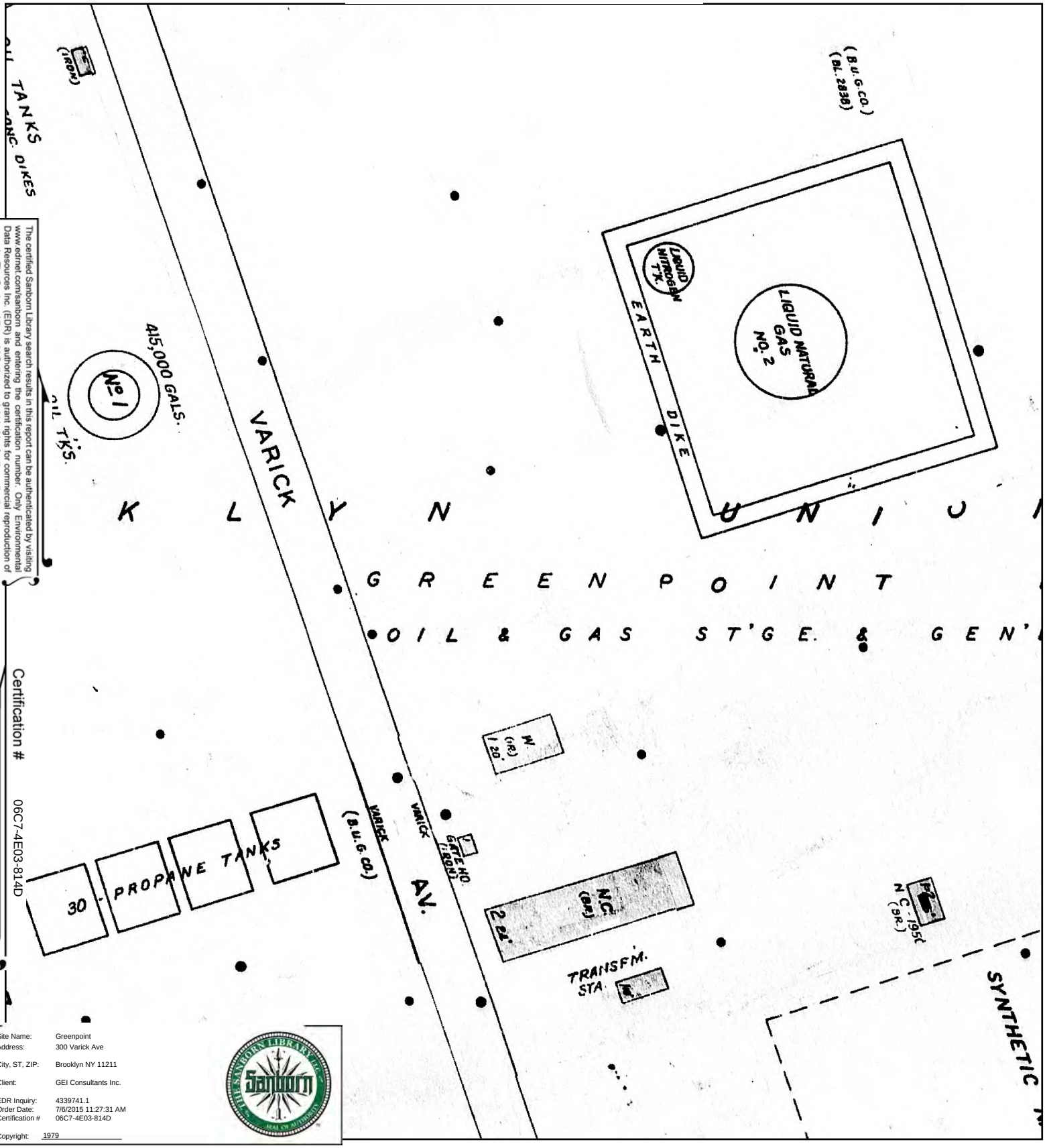
1979 Certified Sanborn Map



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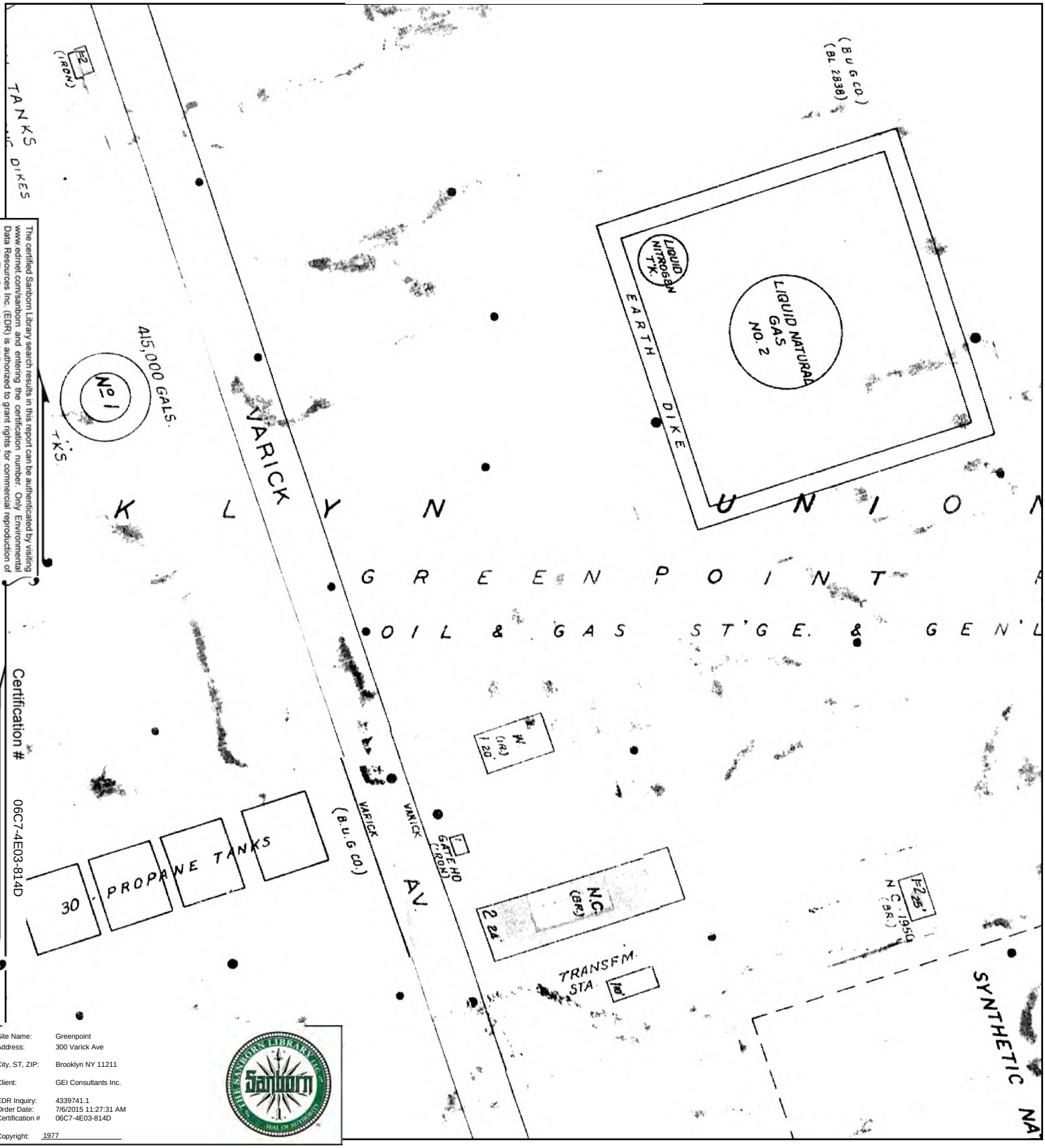

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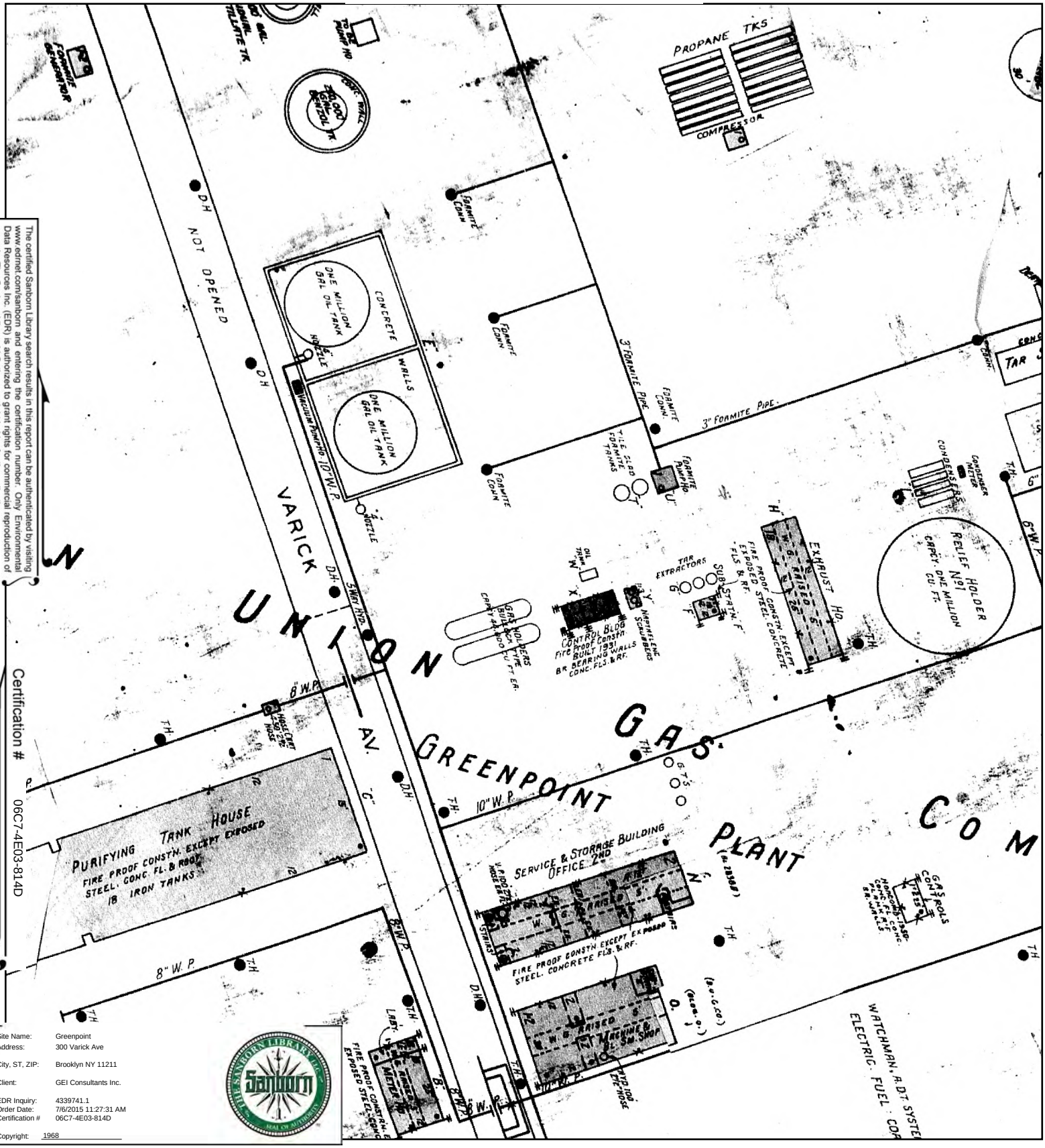

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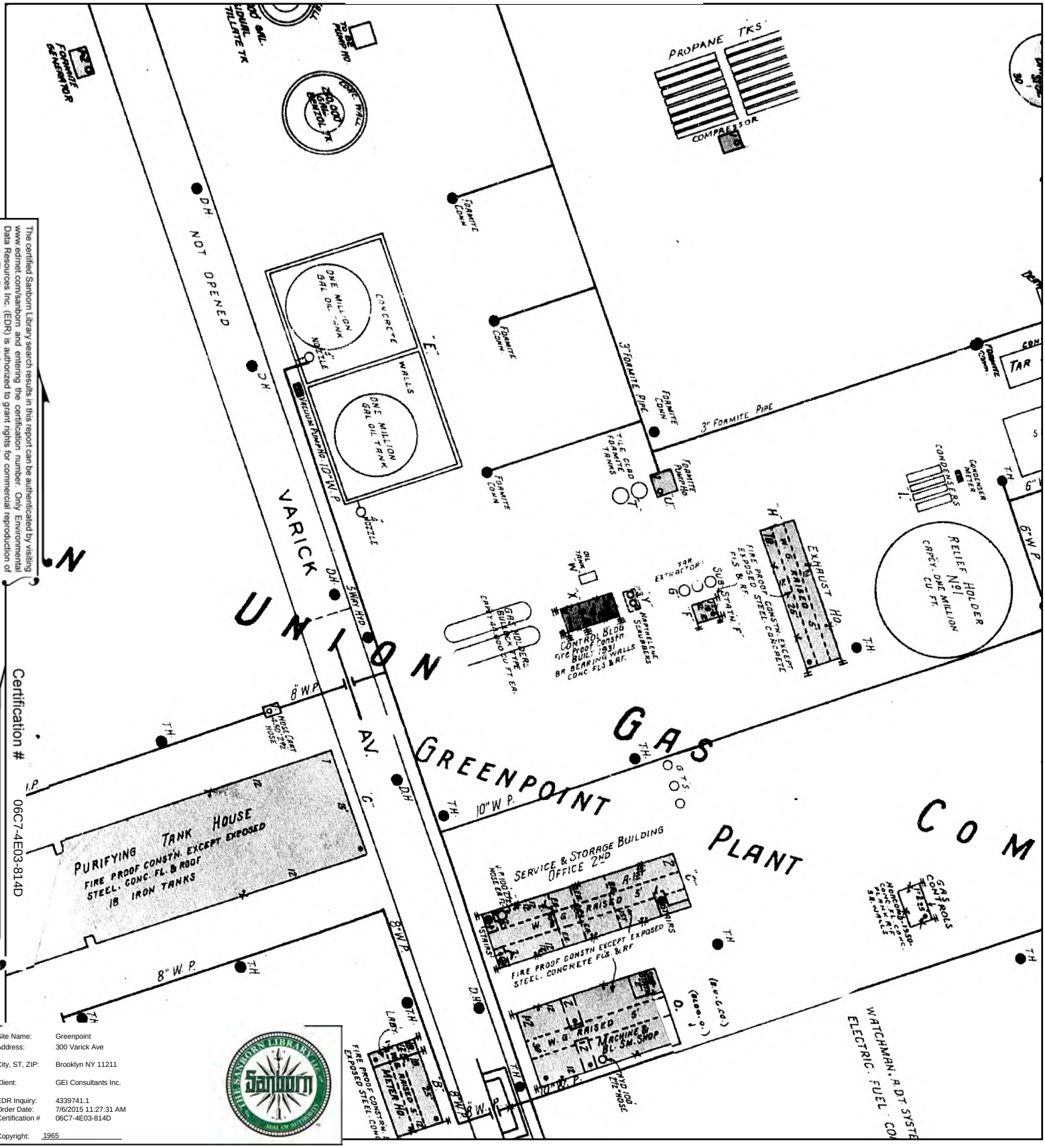
1965 Certified Sanborn Map



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73

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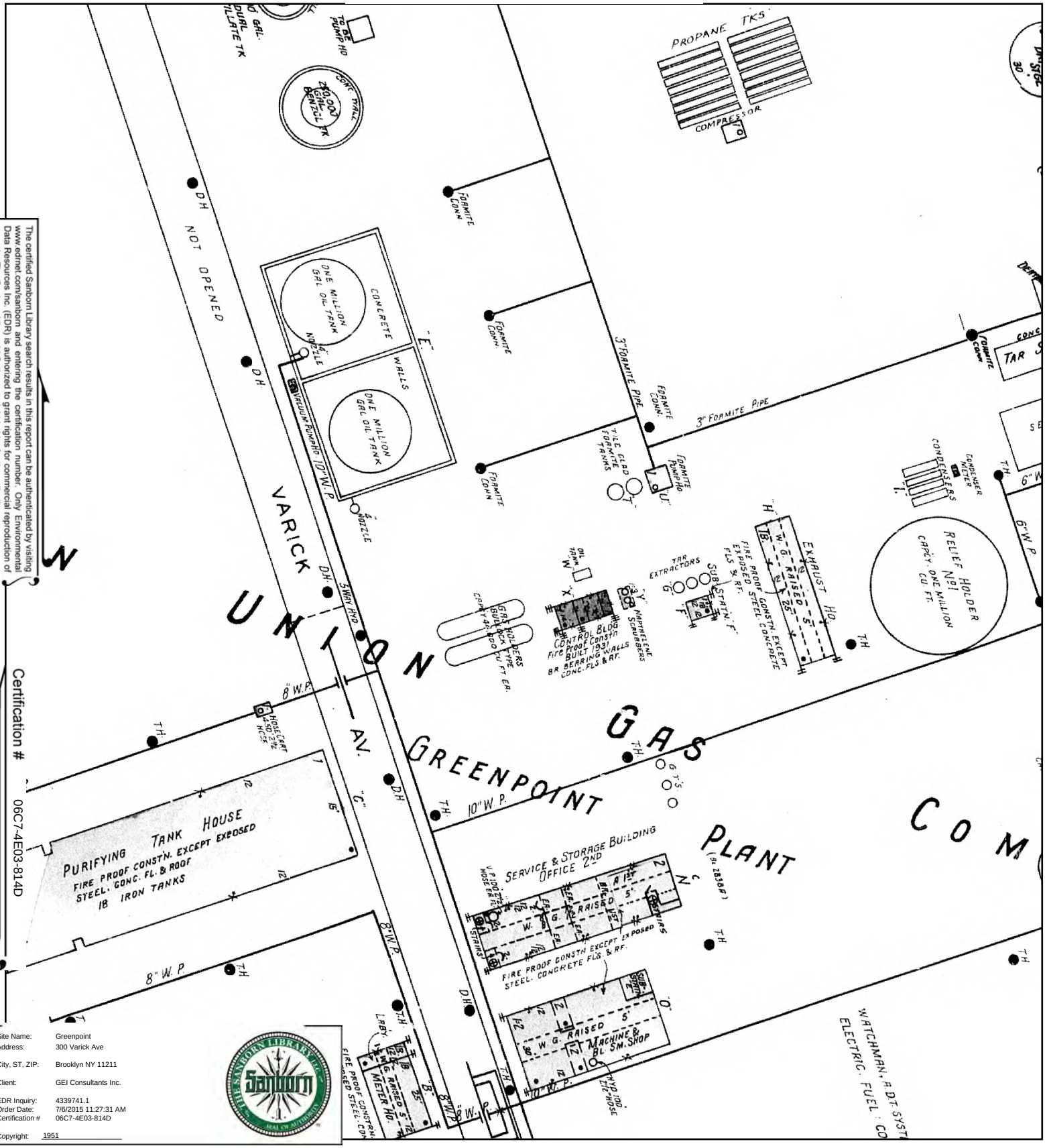
1951 Certified Sanborn Map



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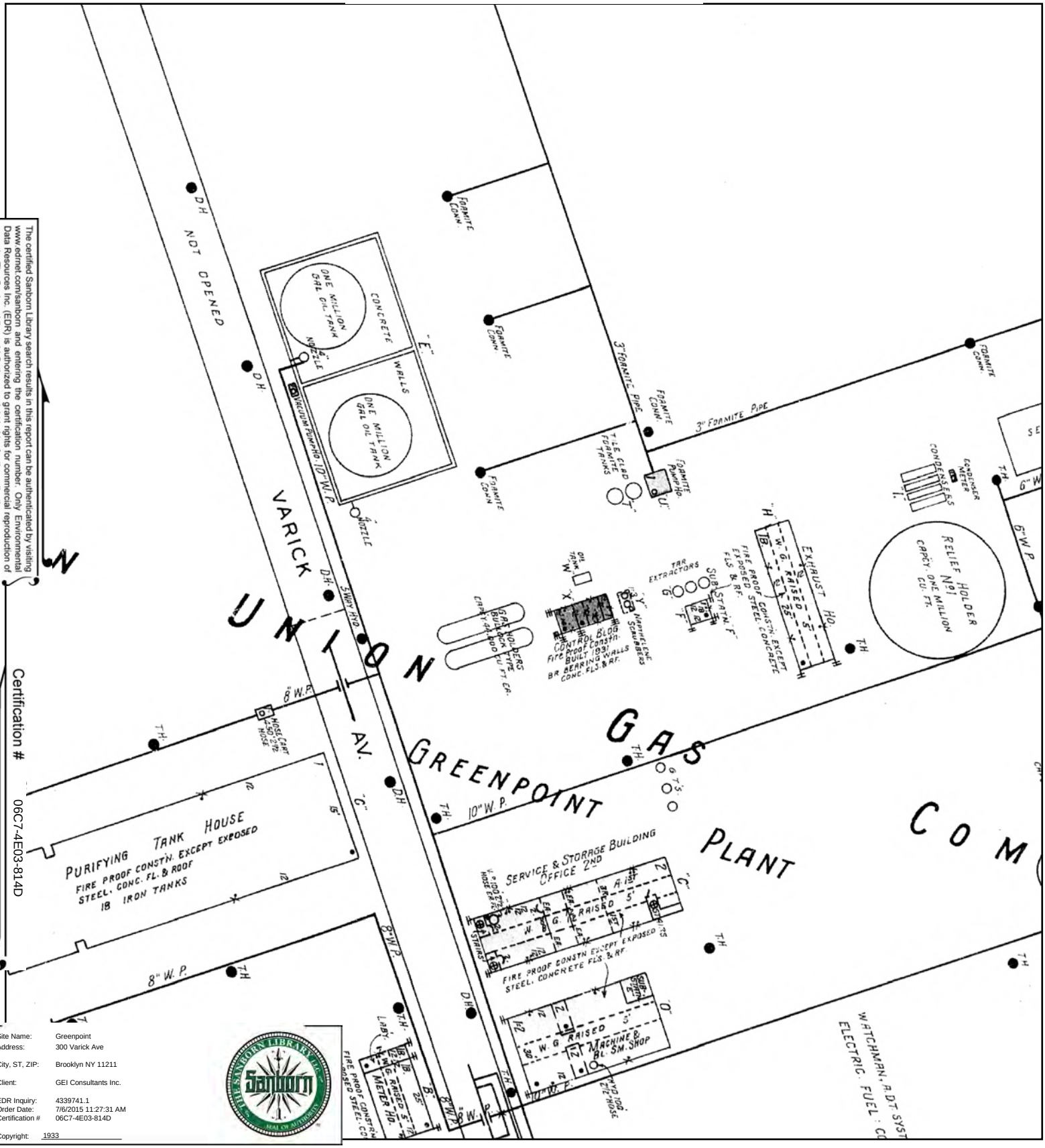
1933 Certified Sanborn Map



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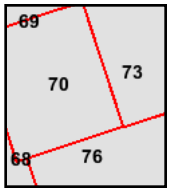

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Volume 9, Sheet 70
Volume 9, Sheet 73

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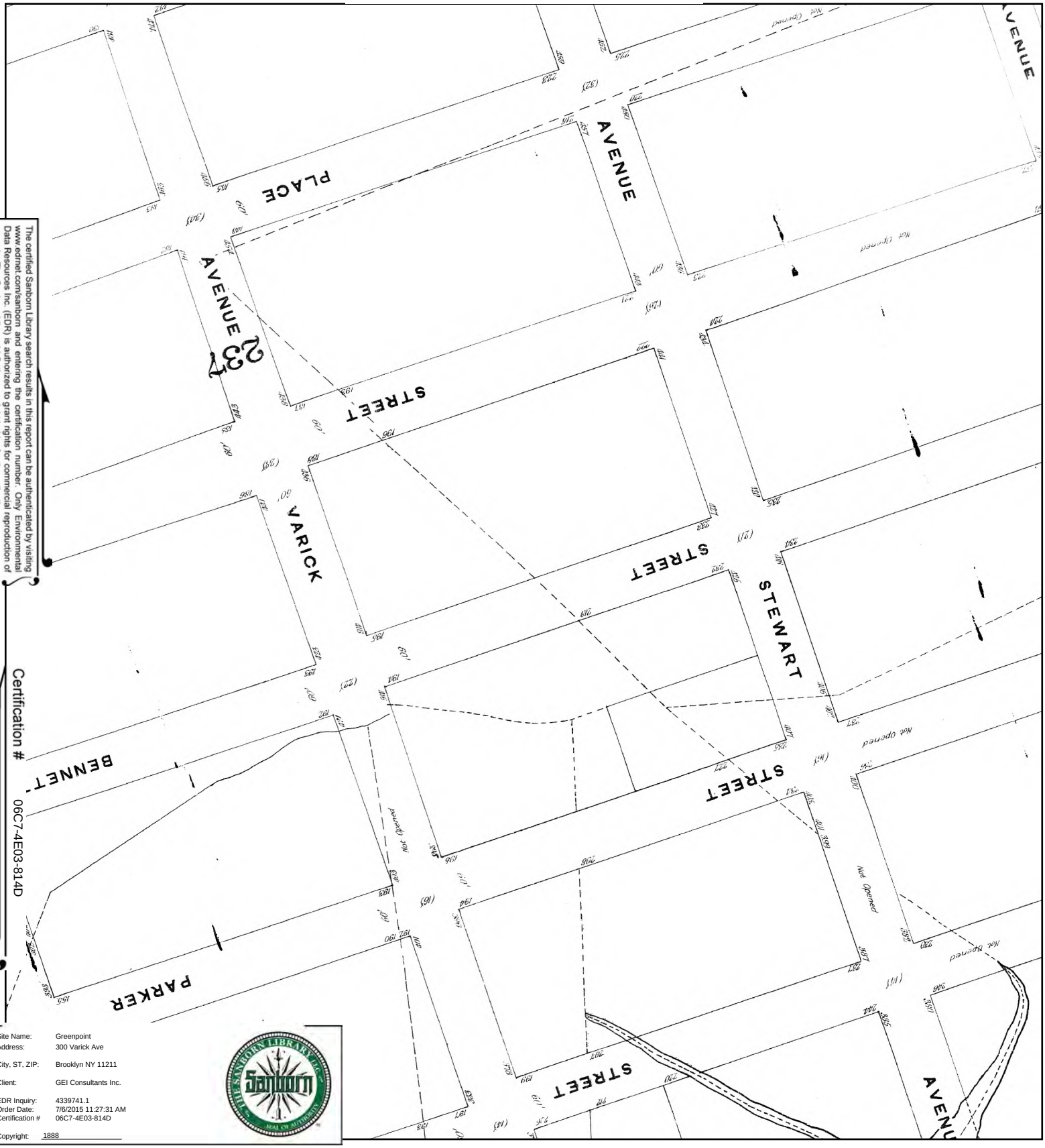
1888 Certified Sanborn Map



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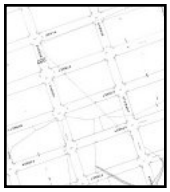

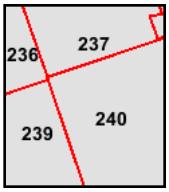

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Volume 9, Sheet 237
Volume 9, Sheet 239
Volume 9, Sheet 240

0 Feet 165 330 660

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

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Certified Sanborn® Map Report

7/06/15

Site Name:
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300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Cross Street:
P.O. # NA
Project: 1509790-1-1102
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Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1902
2003	1992	1986	1968	1888
2002	1991	1982	1965	

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- ✓ Library of Congress
- ✓ University Publications of America
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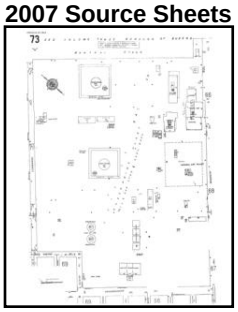

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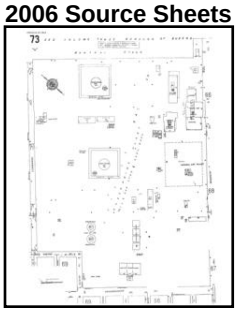
2006 Source Sheets



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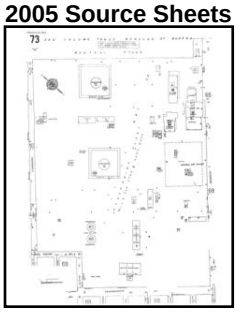

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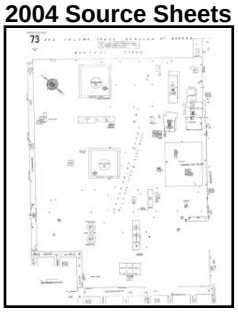

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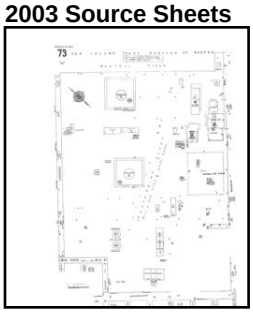

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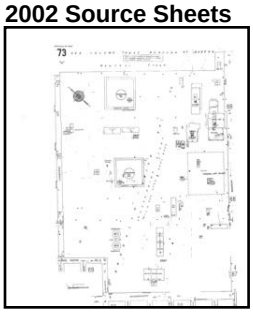

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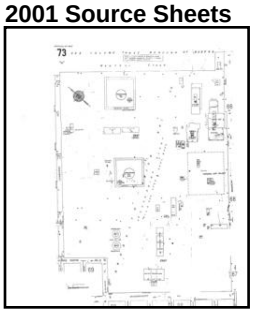

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1995 Source Sheets



Volume 9, Sheet 73

1994 Source Sheets



Volume 9, Sheet 73

1993 Source Sheets



Volume 9, Sheet 73



Volume 9, Sheet 73

1992 Source Sheets



Volume 9, Sheet 73

1991 Source Sheets



Volume 9, Sheet 73

1990 Source Sheets



Volume 9, Sheet 73

1989 Source Sheets



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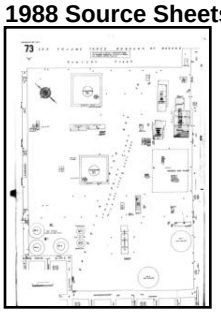
1988 Source Sheets



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1986 Source Sheets



Volume 9, Sheet 73

1982 Source Sheets



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1981 Source Sheets



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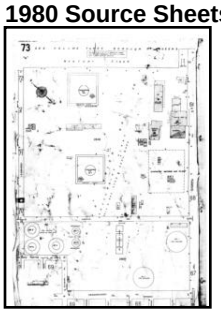
1980 Source Sheets



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1977 Source Sheets



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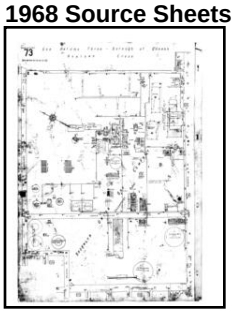
1968 Source Sheets



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1965 Source Sheets



Volume 9, Sheet 73

1951 Source Sheets



Volume 9, Sheet 73

1933 Source Sheets



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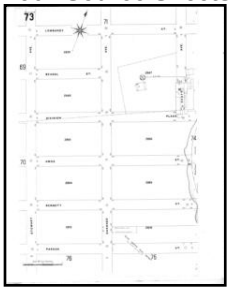
1907 Source Sheets



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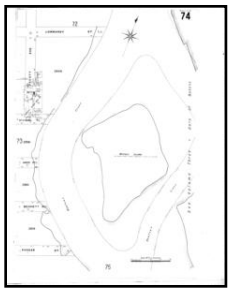

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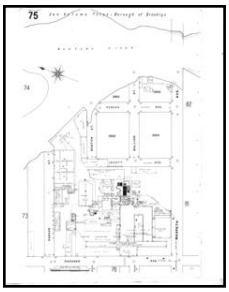

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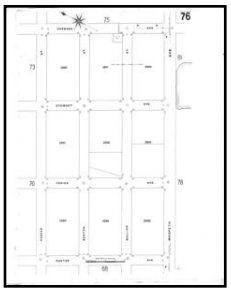

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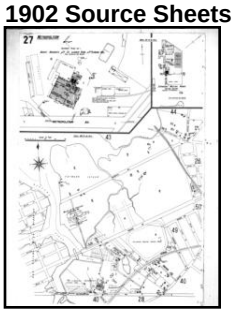

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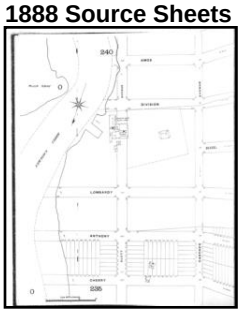
1888 Source Sheets



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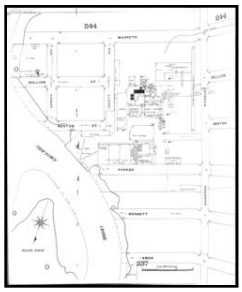

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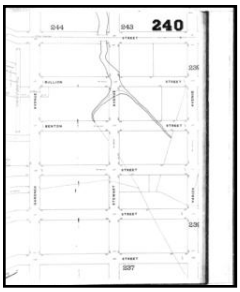

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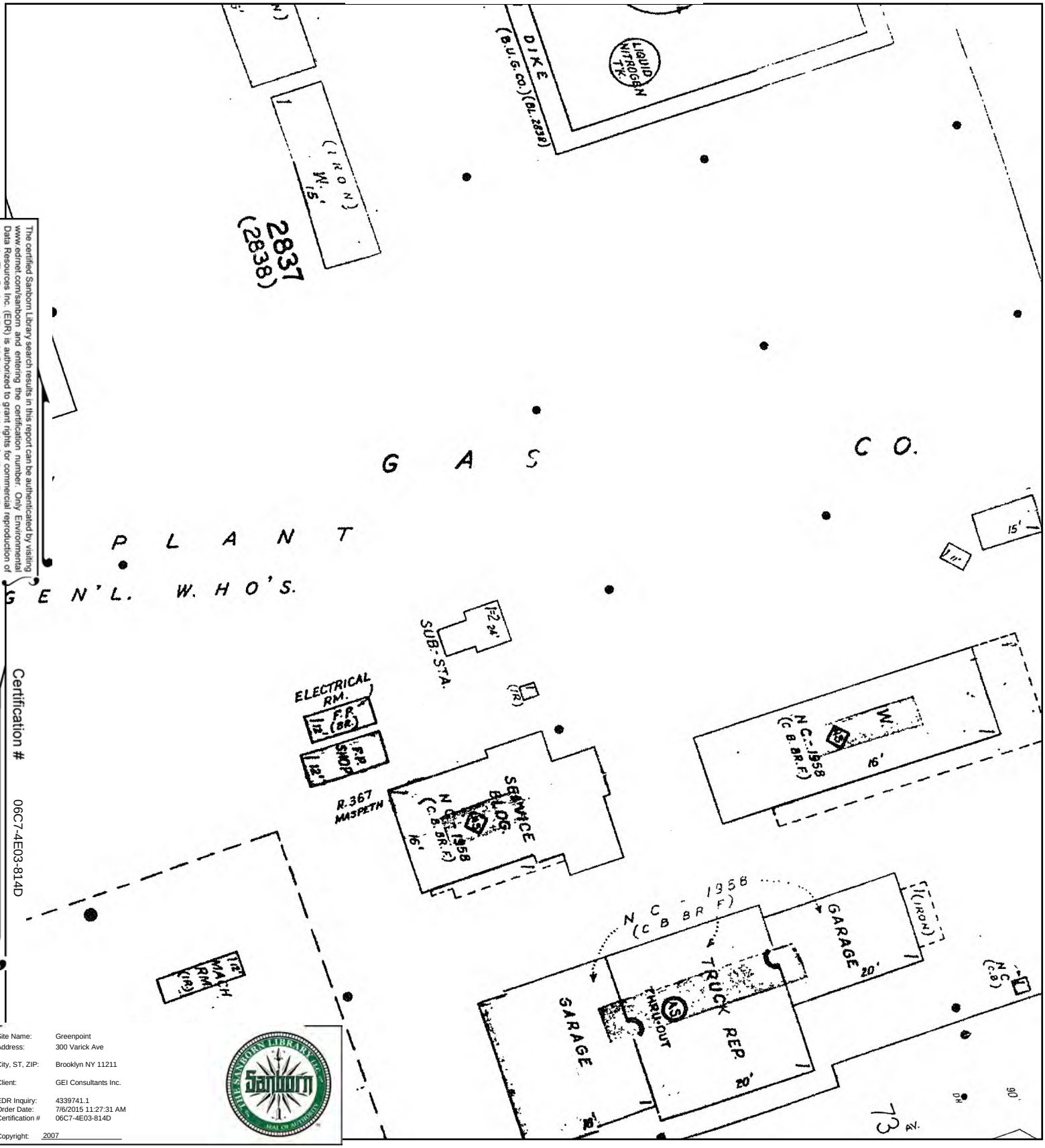

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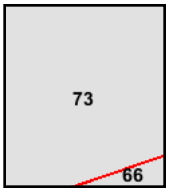

Volume 9, Sheet 73

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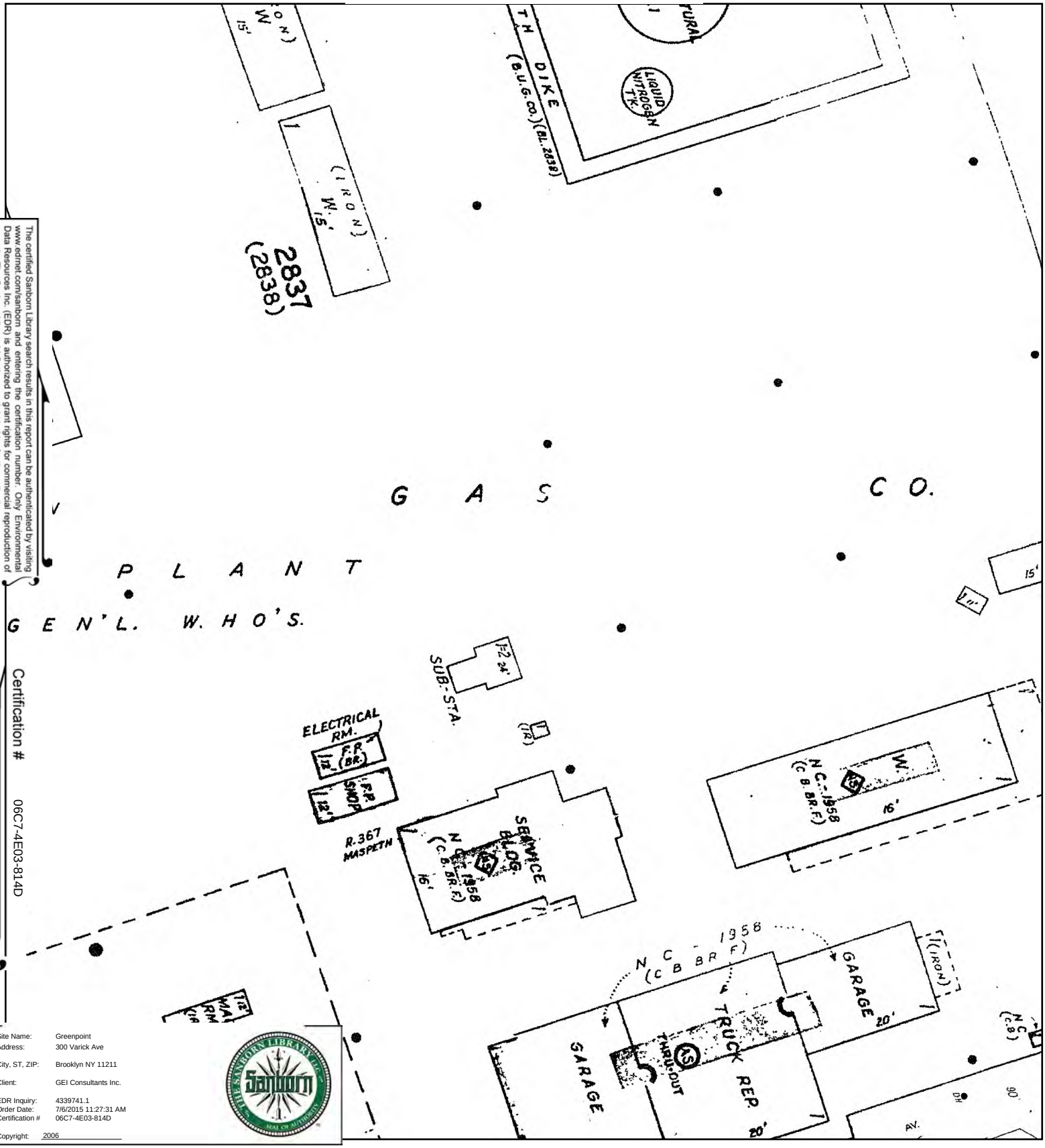
2006 Certified Sanborn Map



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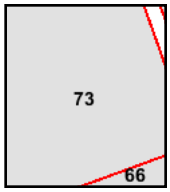

Volume 9, Sheet 73

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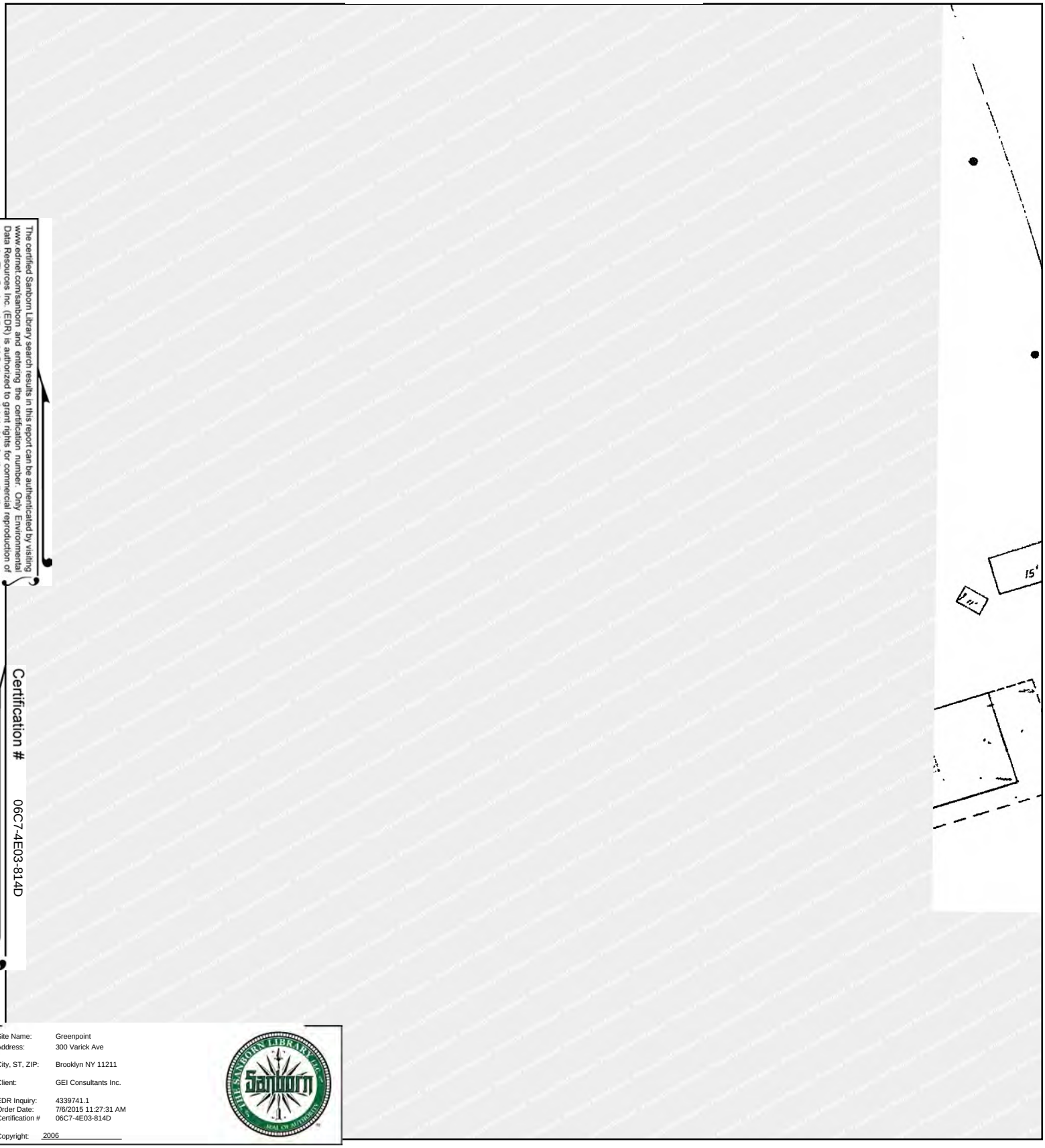
2006 Certified Sanborn Map



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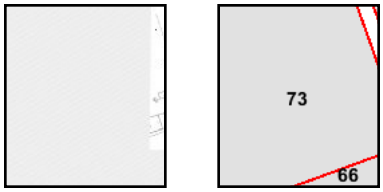

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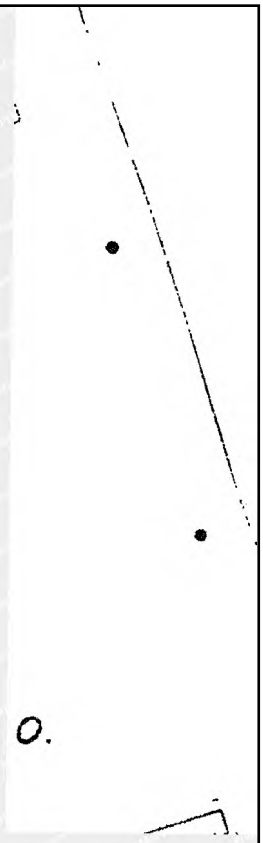

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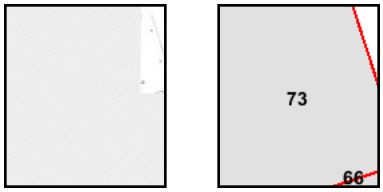

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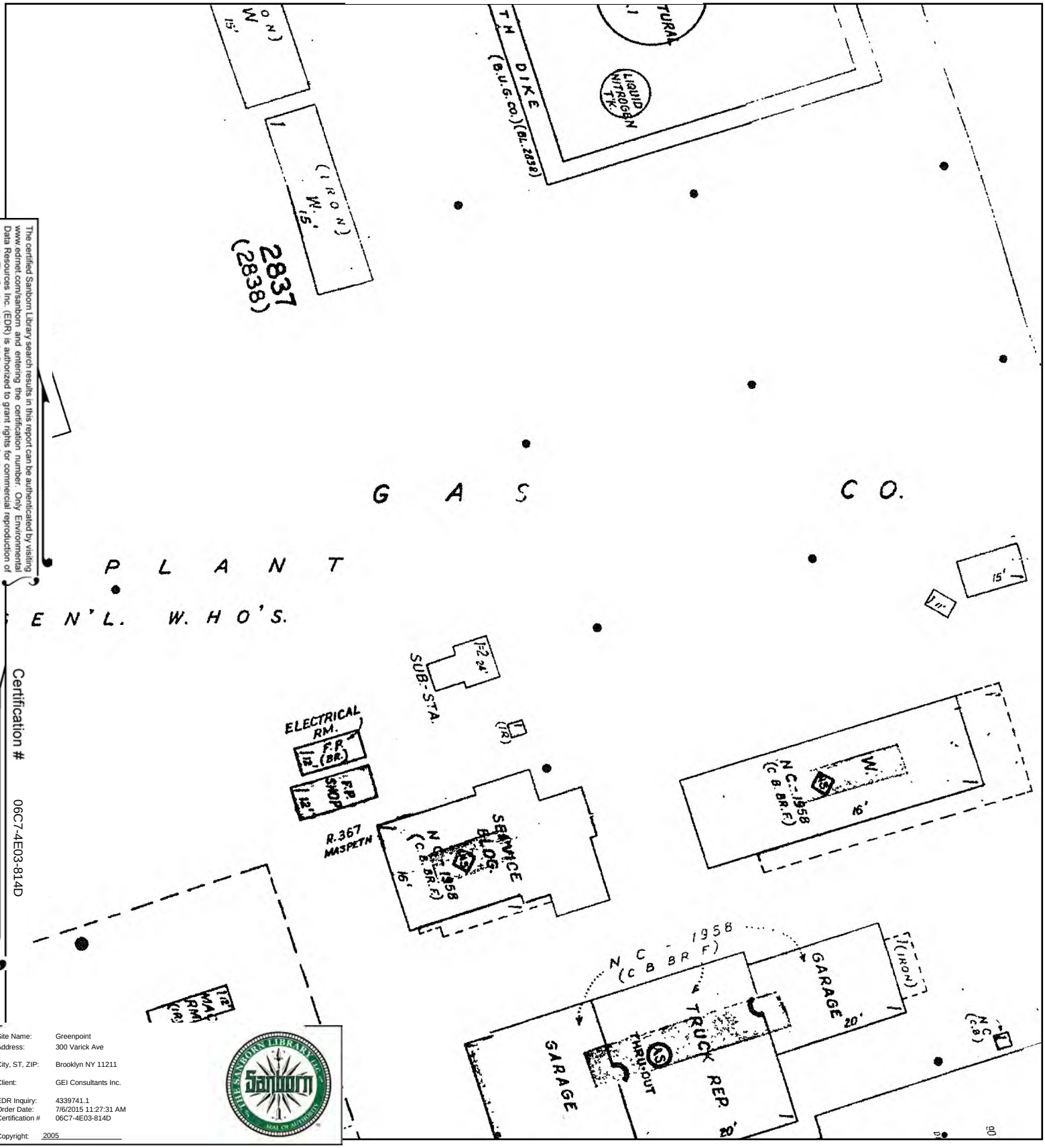

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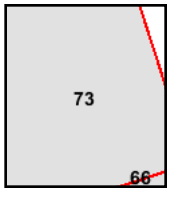

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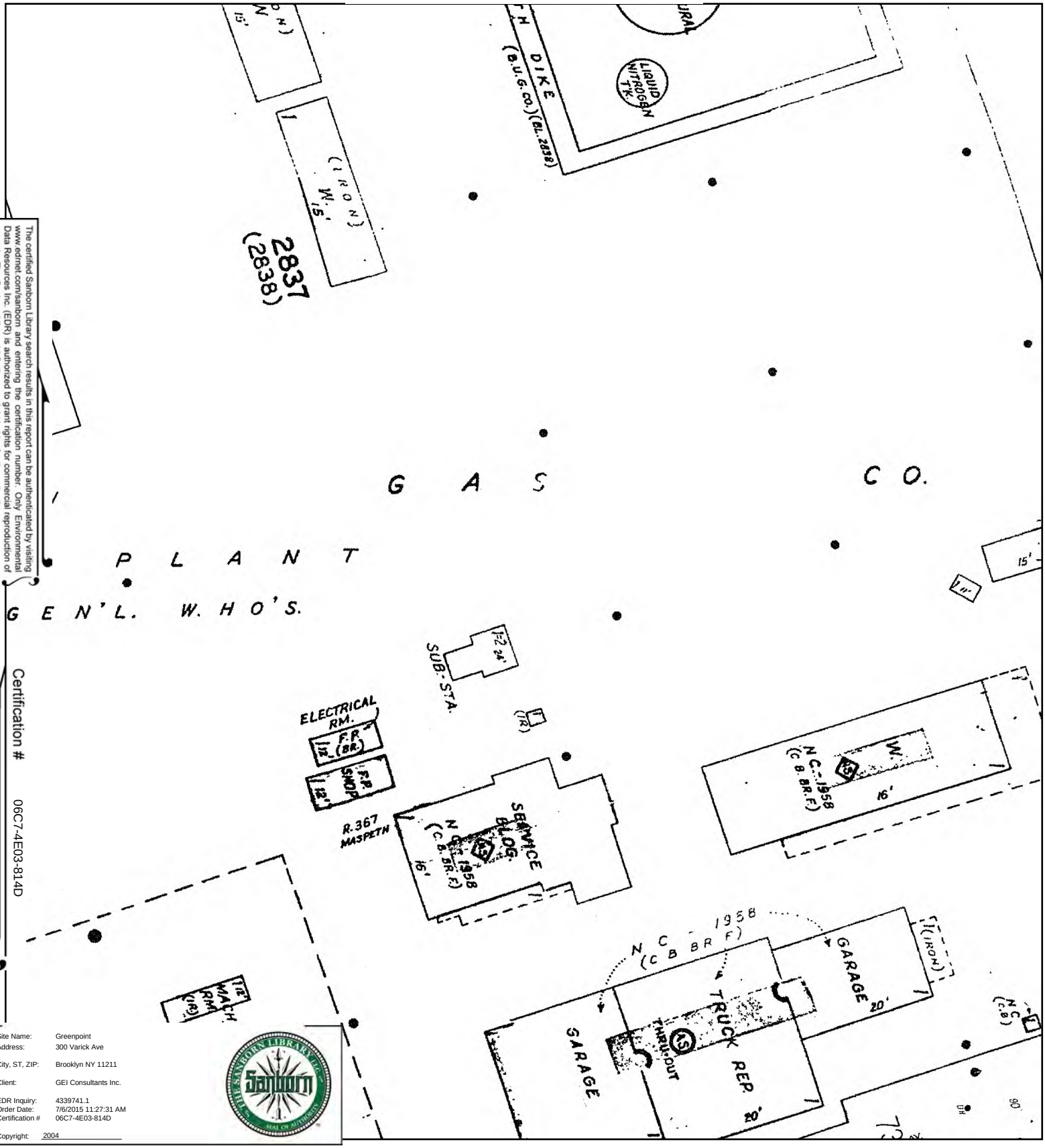

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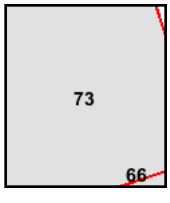

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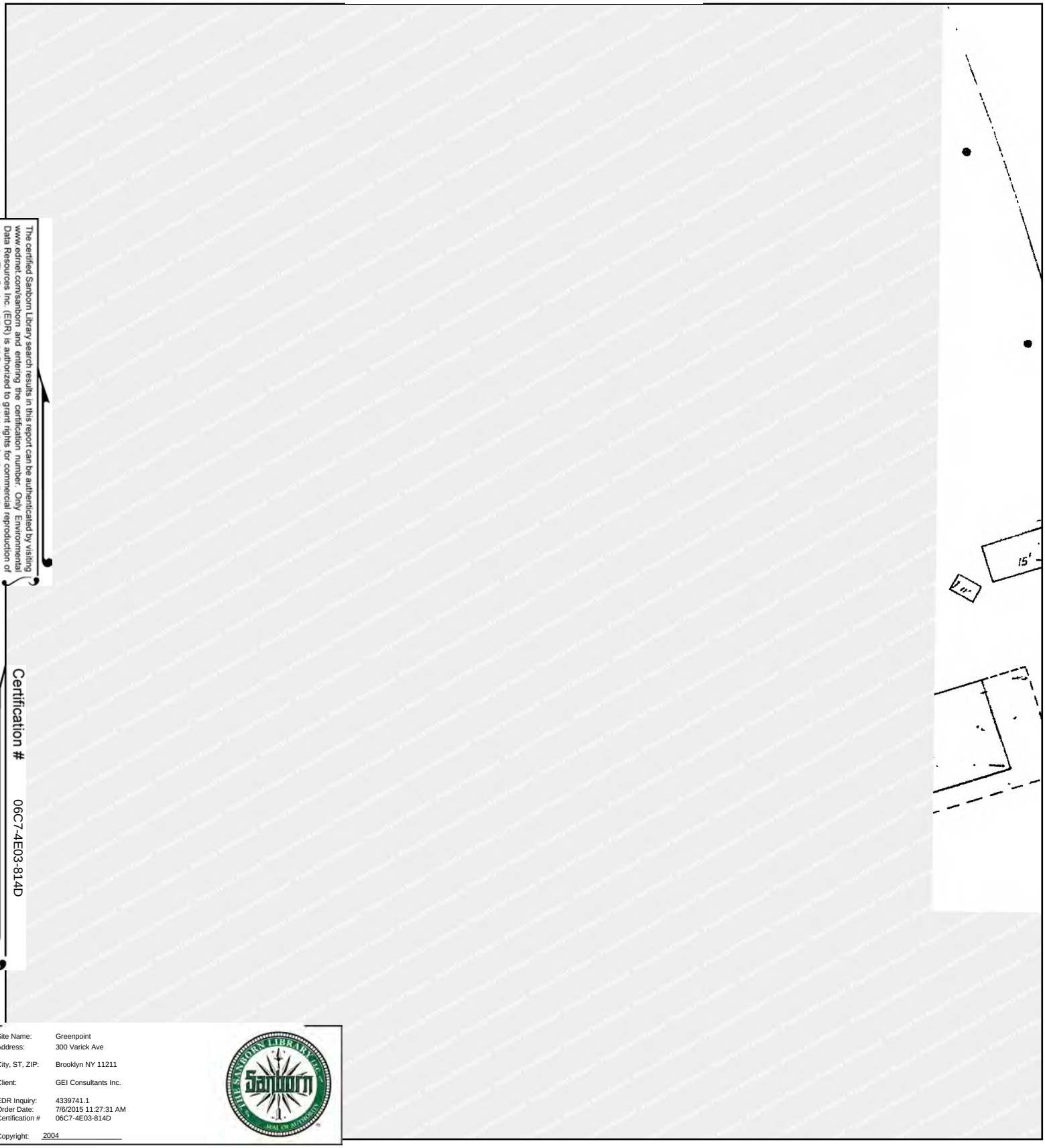

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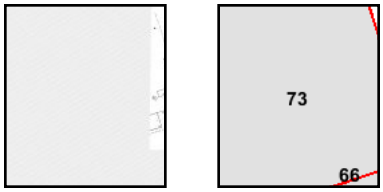

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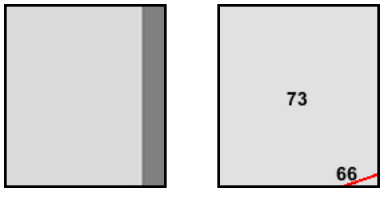

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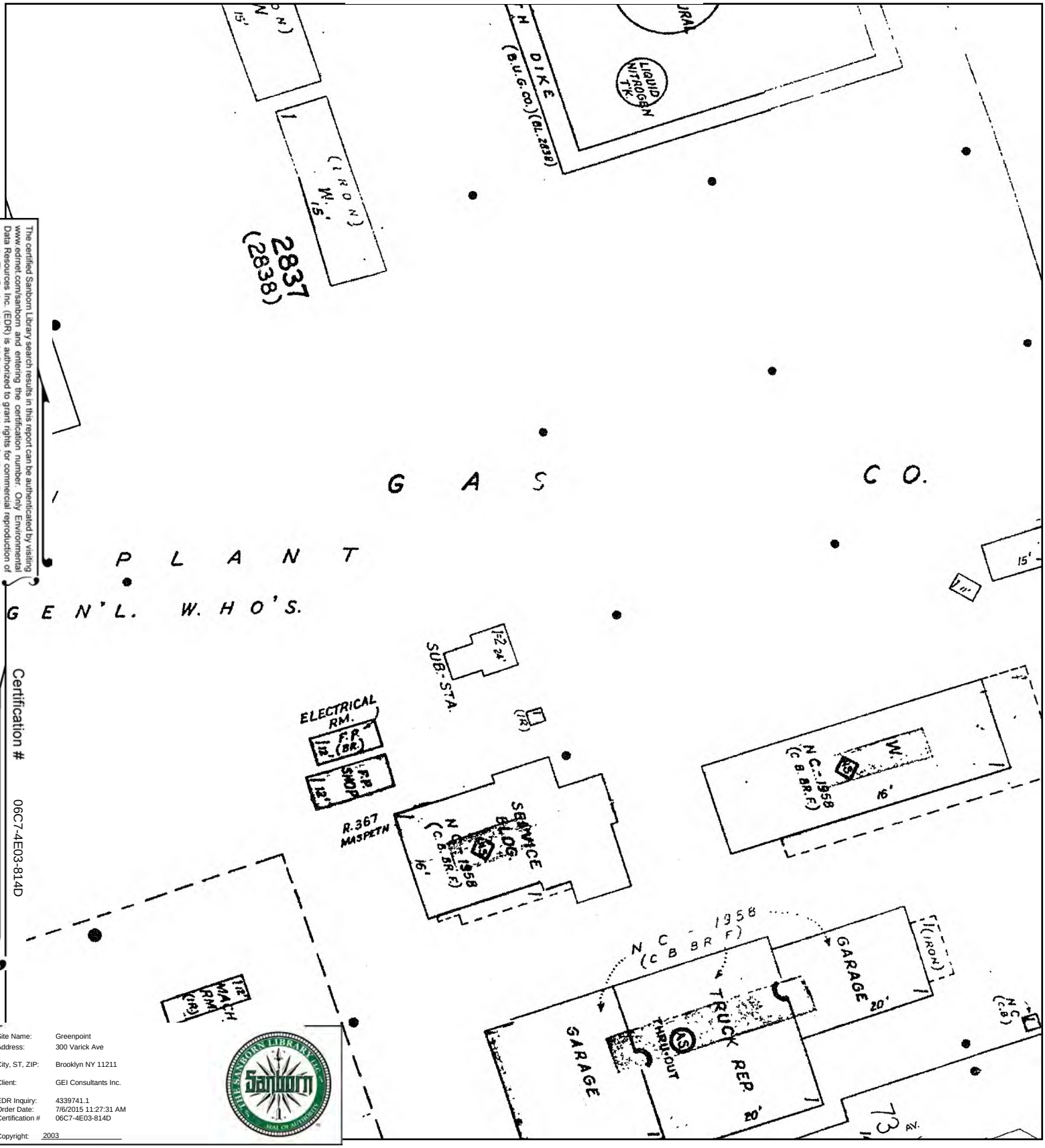

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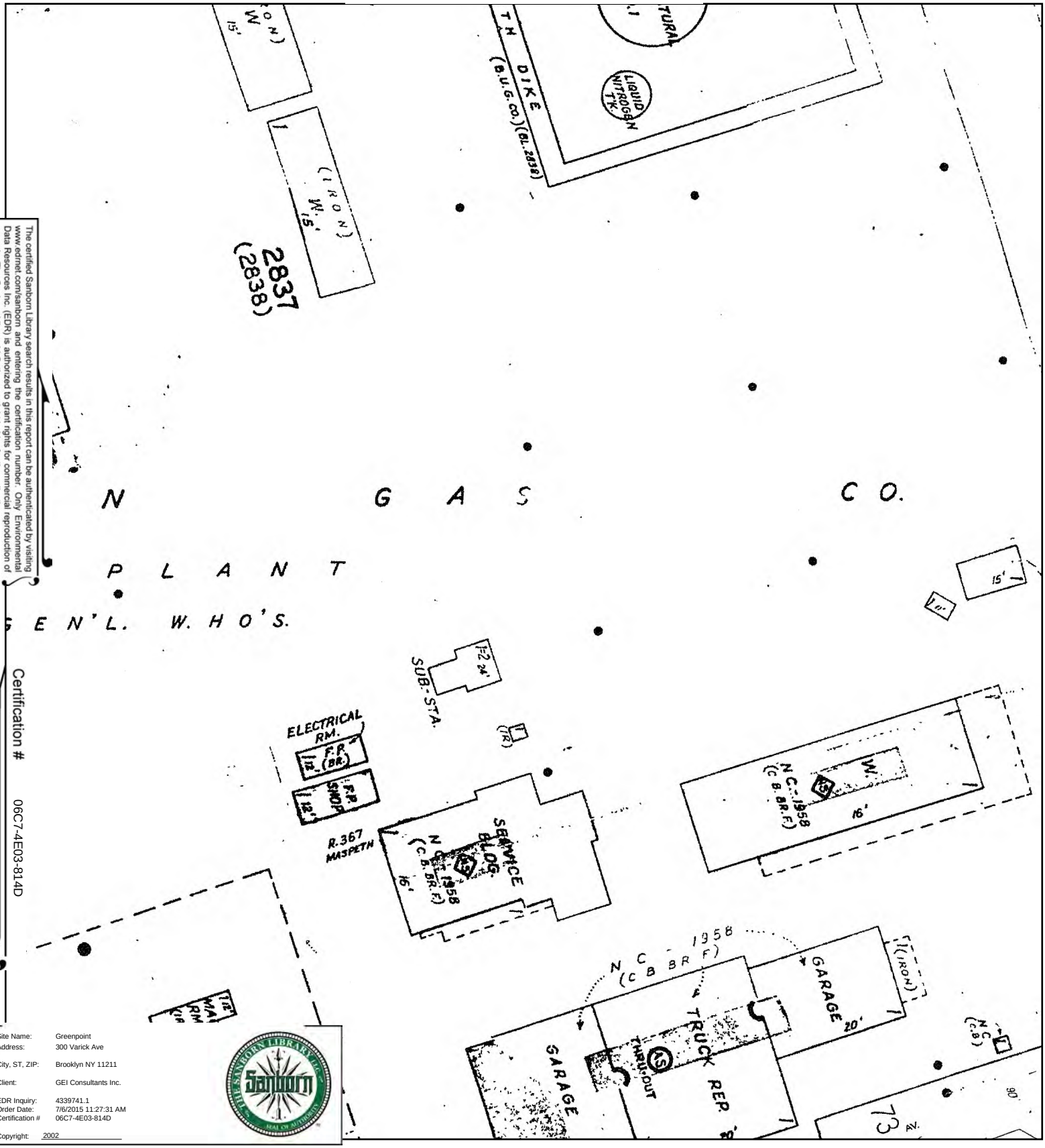

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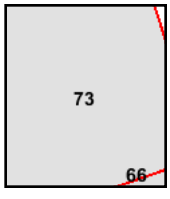

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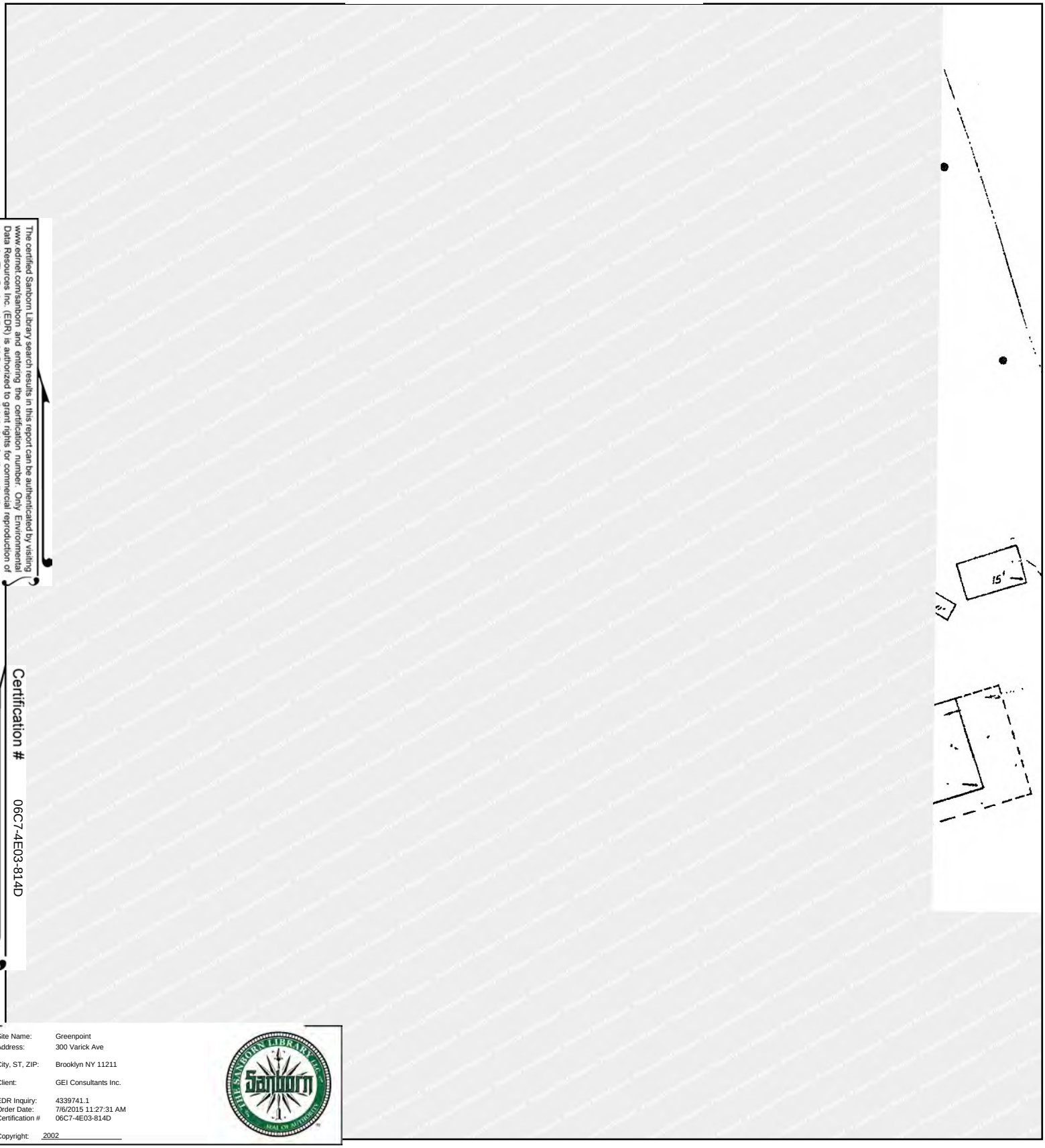

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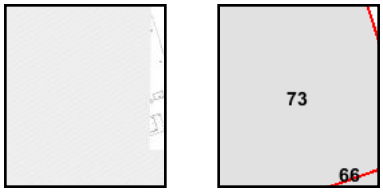

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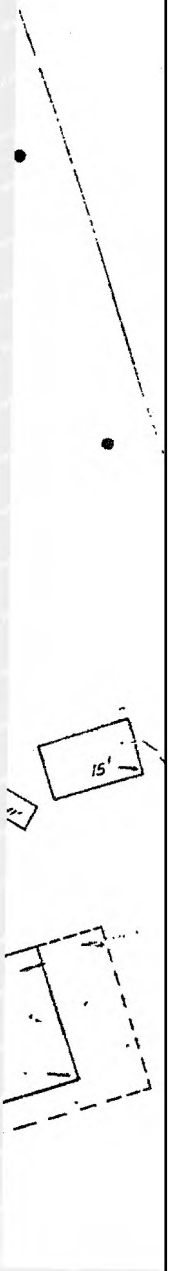

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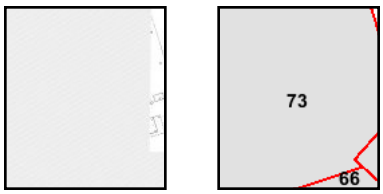

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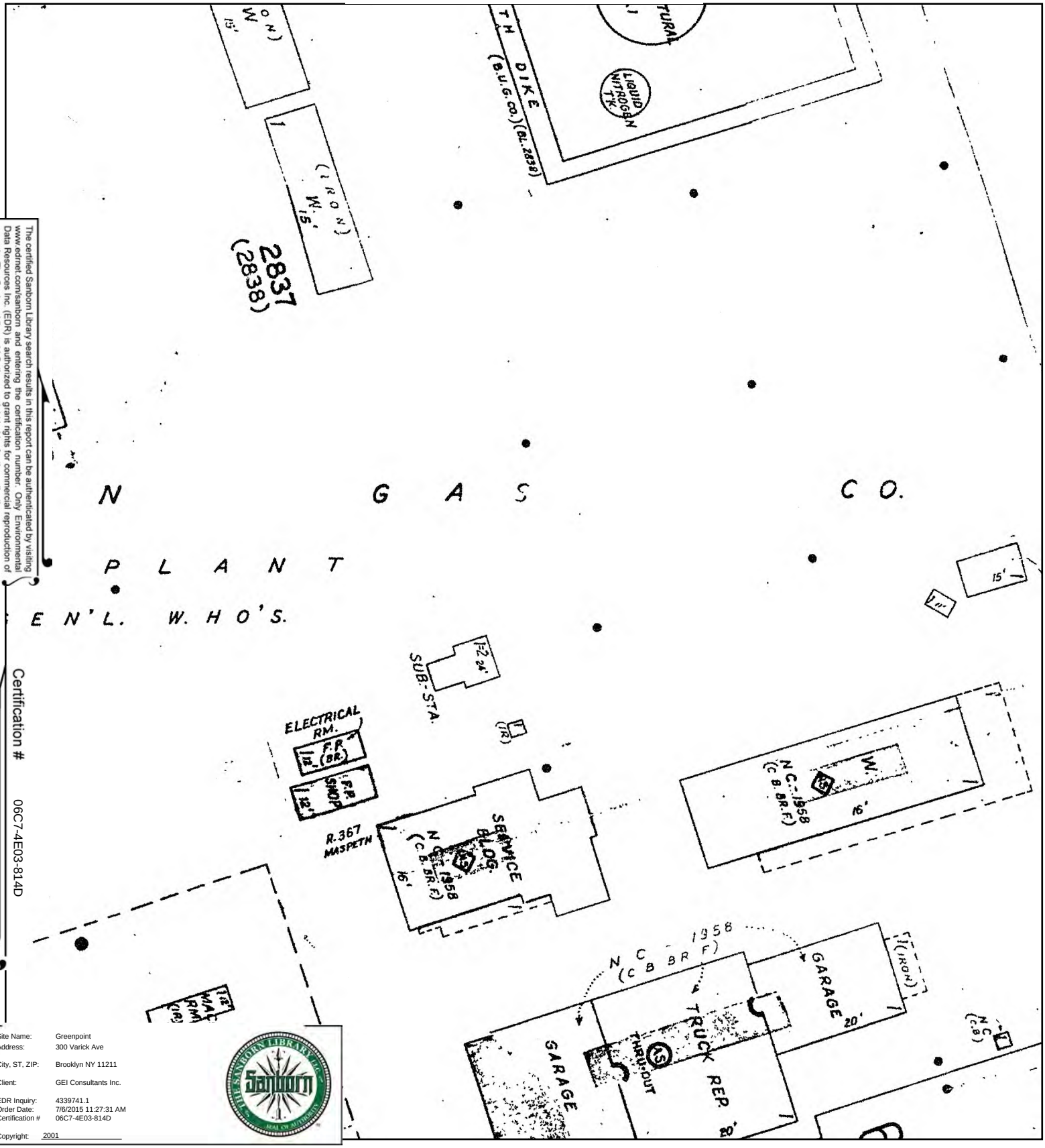

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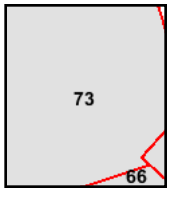

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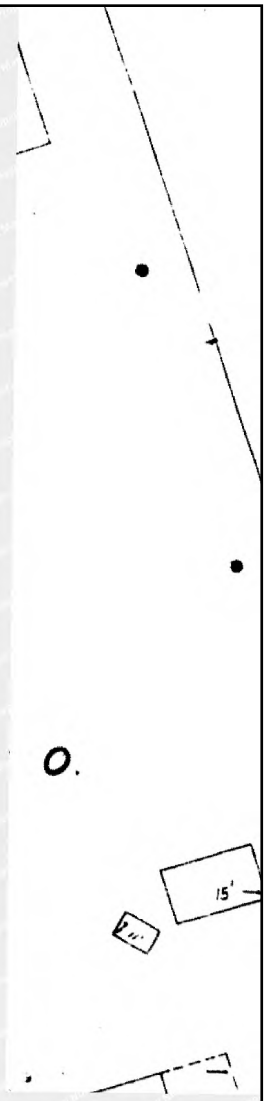

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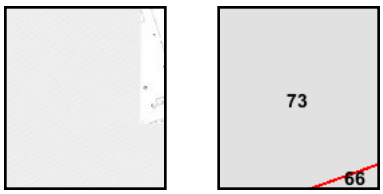

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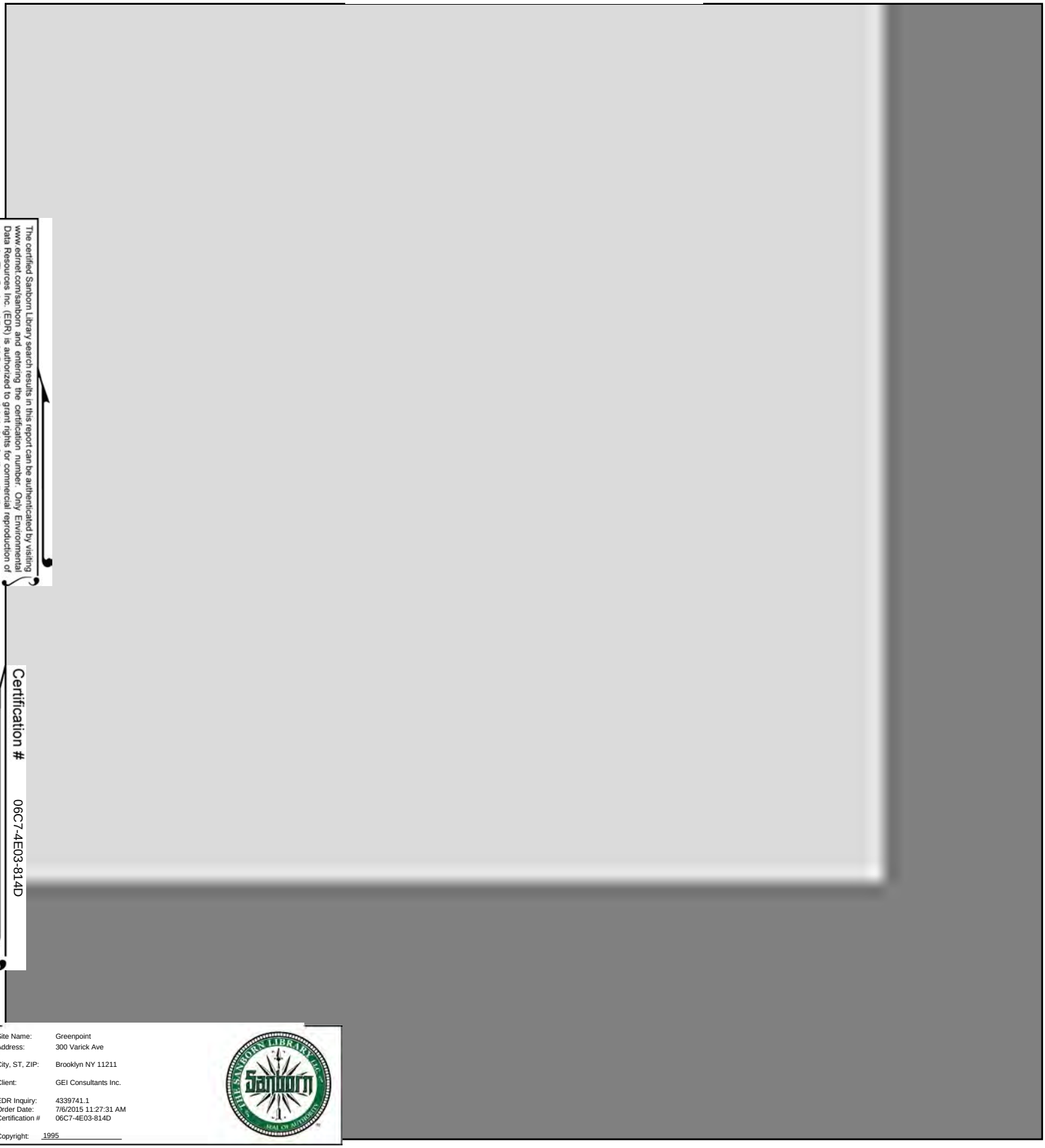

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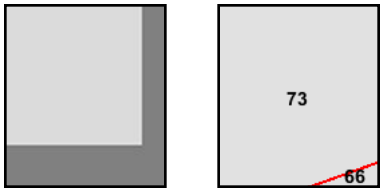

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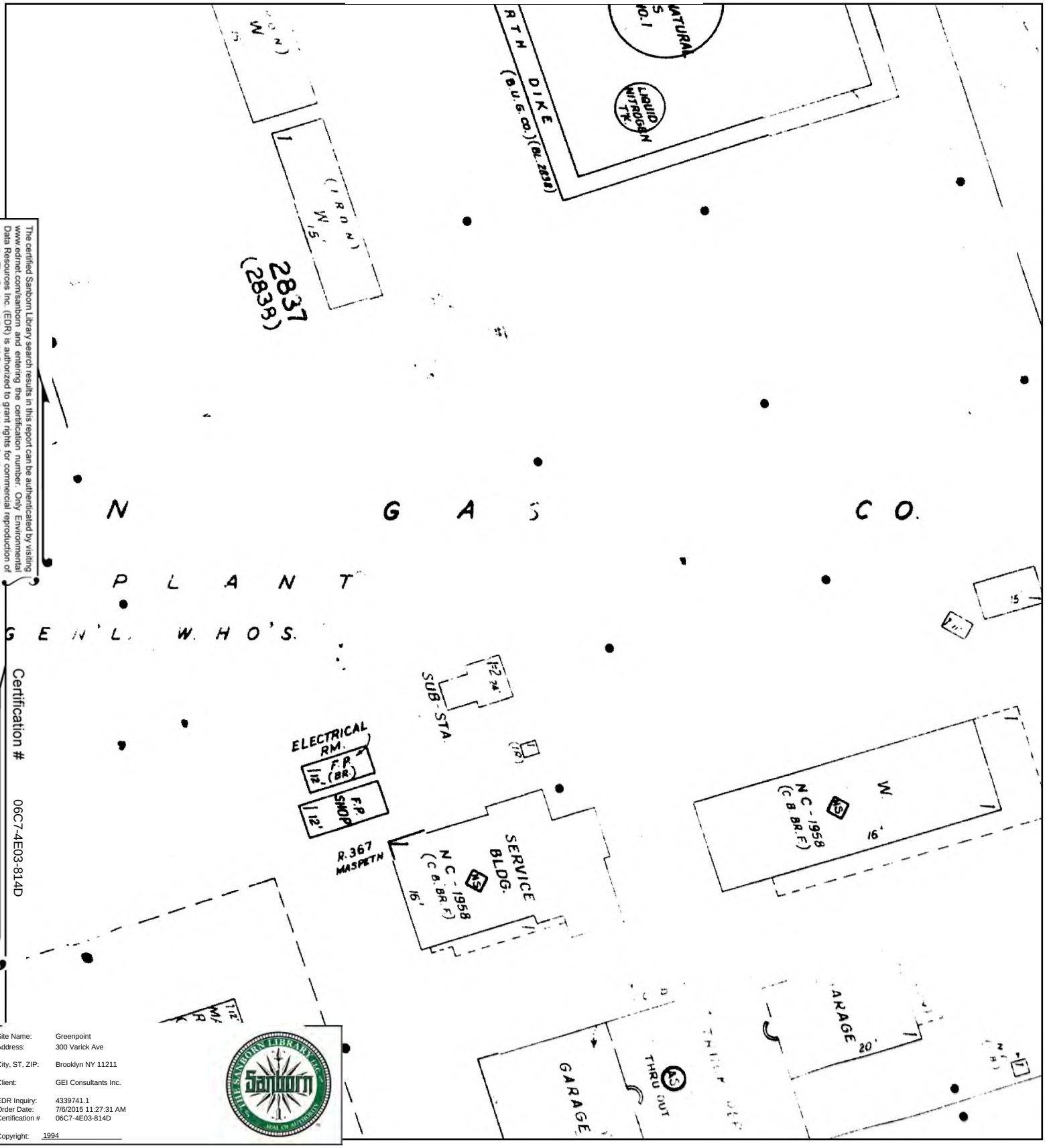

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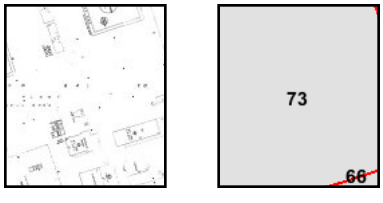

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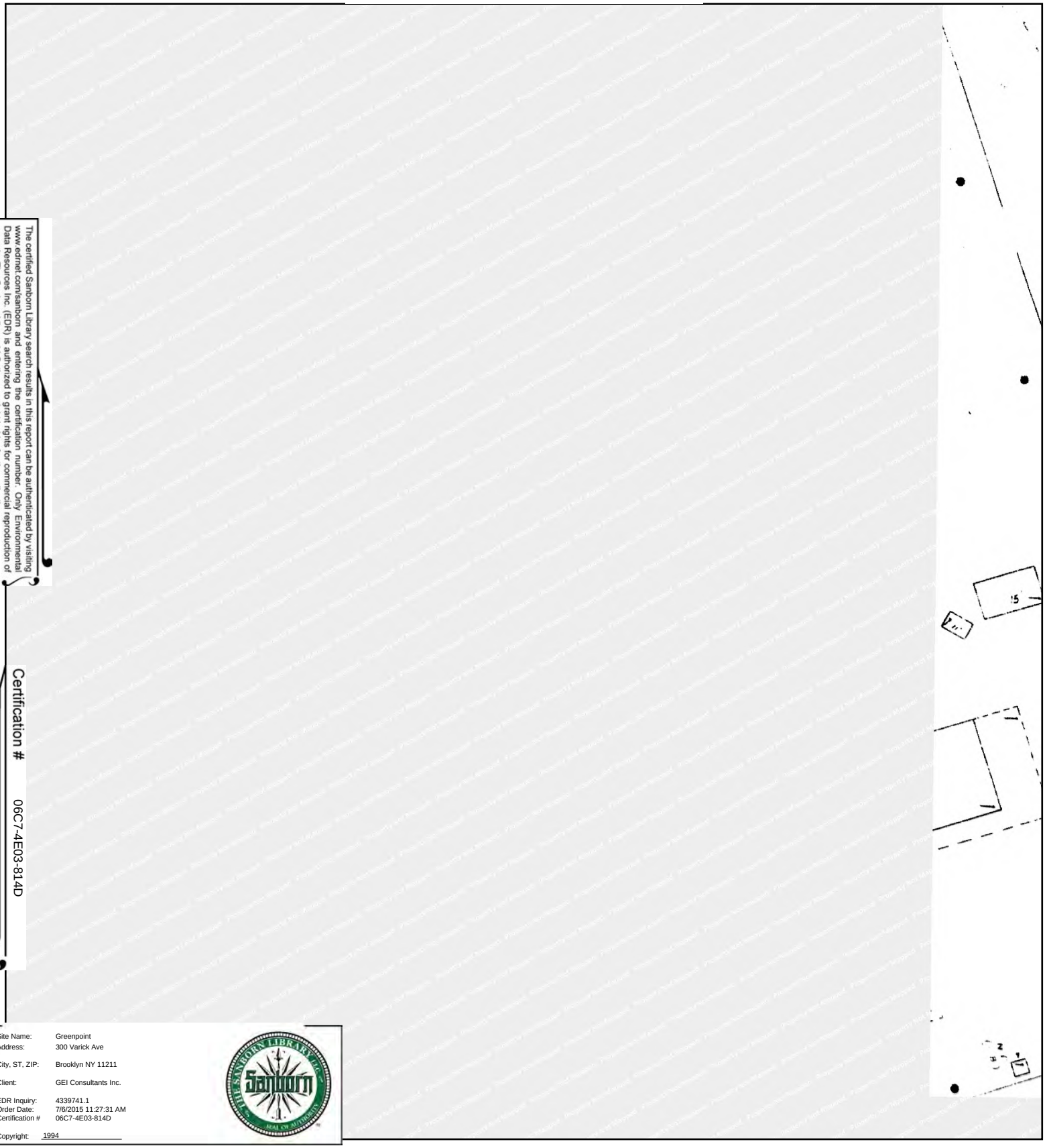

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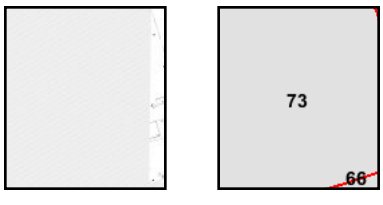

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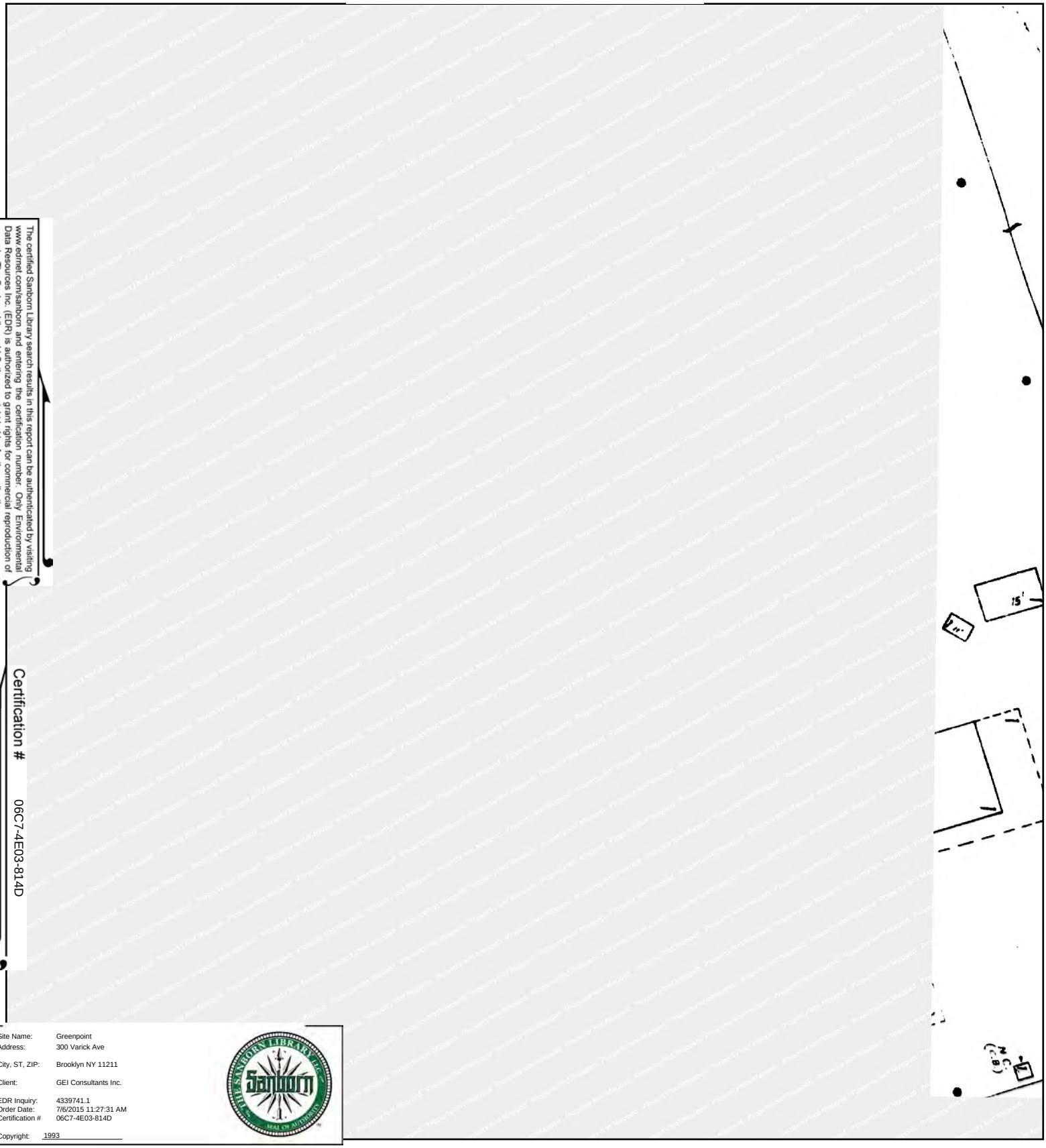

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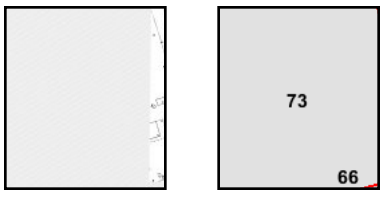

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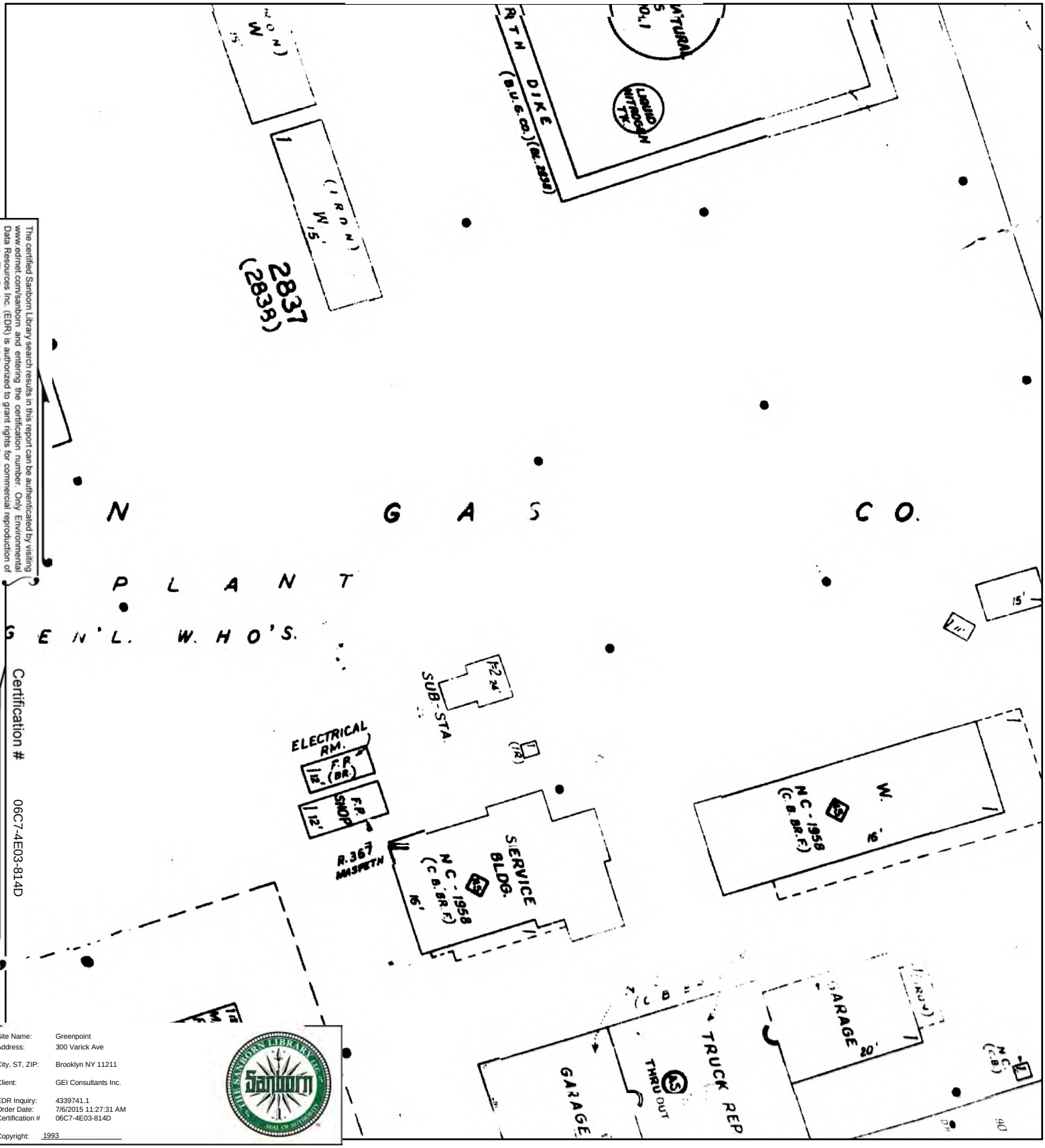

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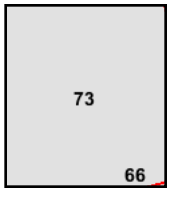

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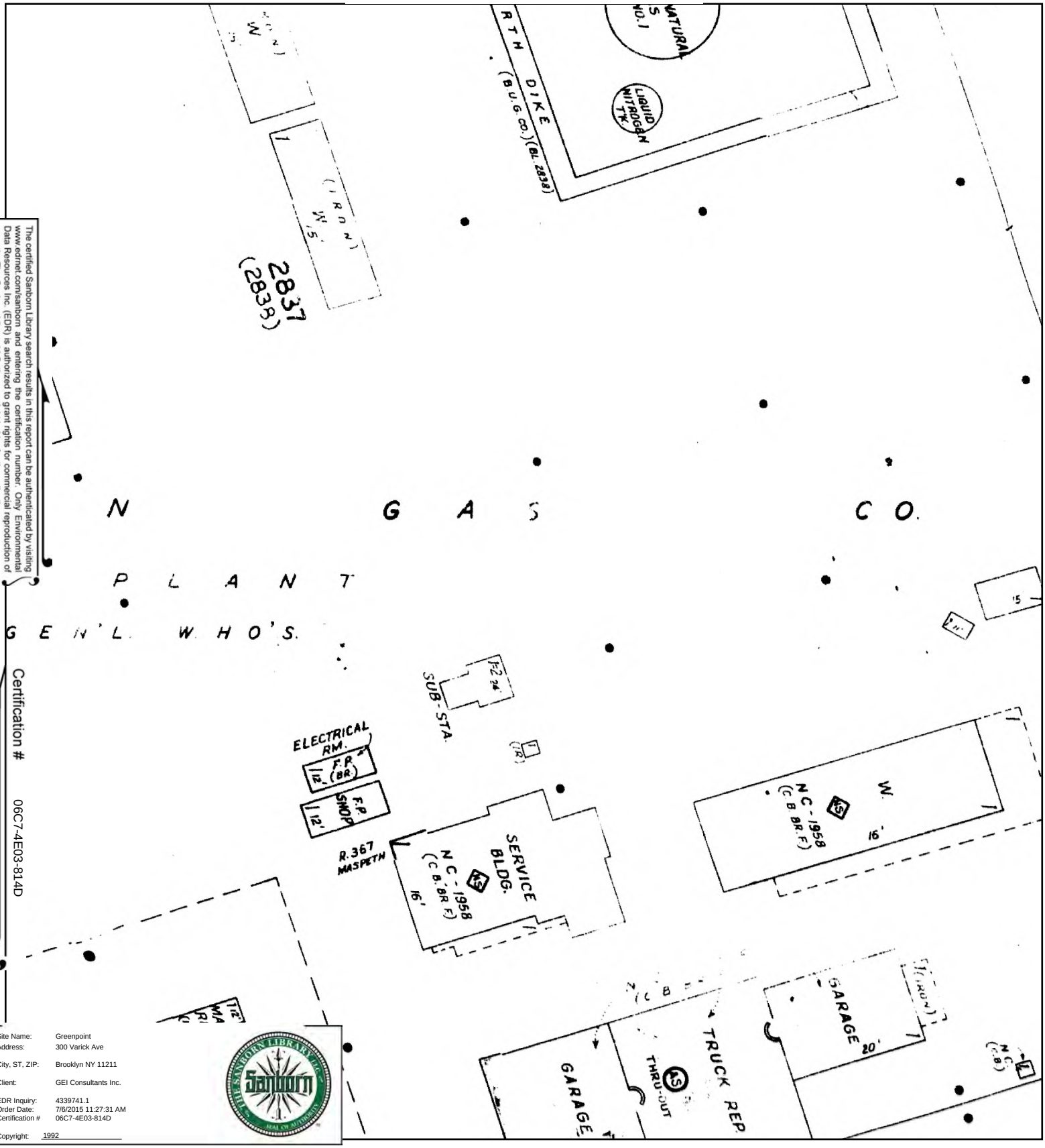

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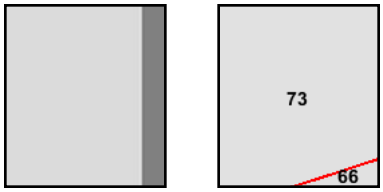

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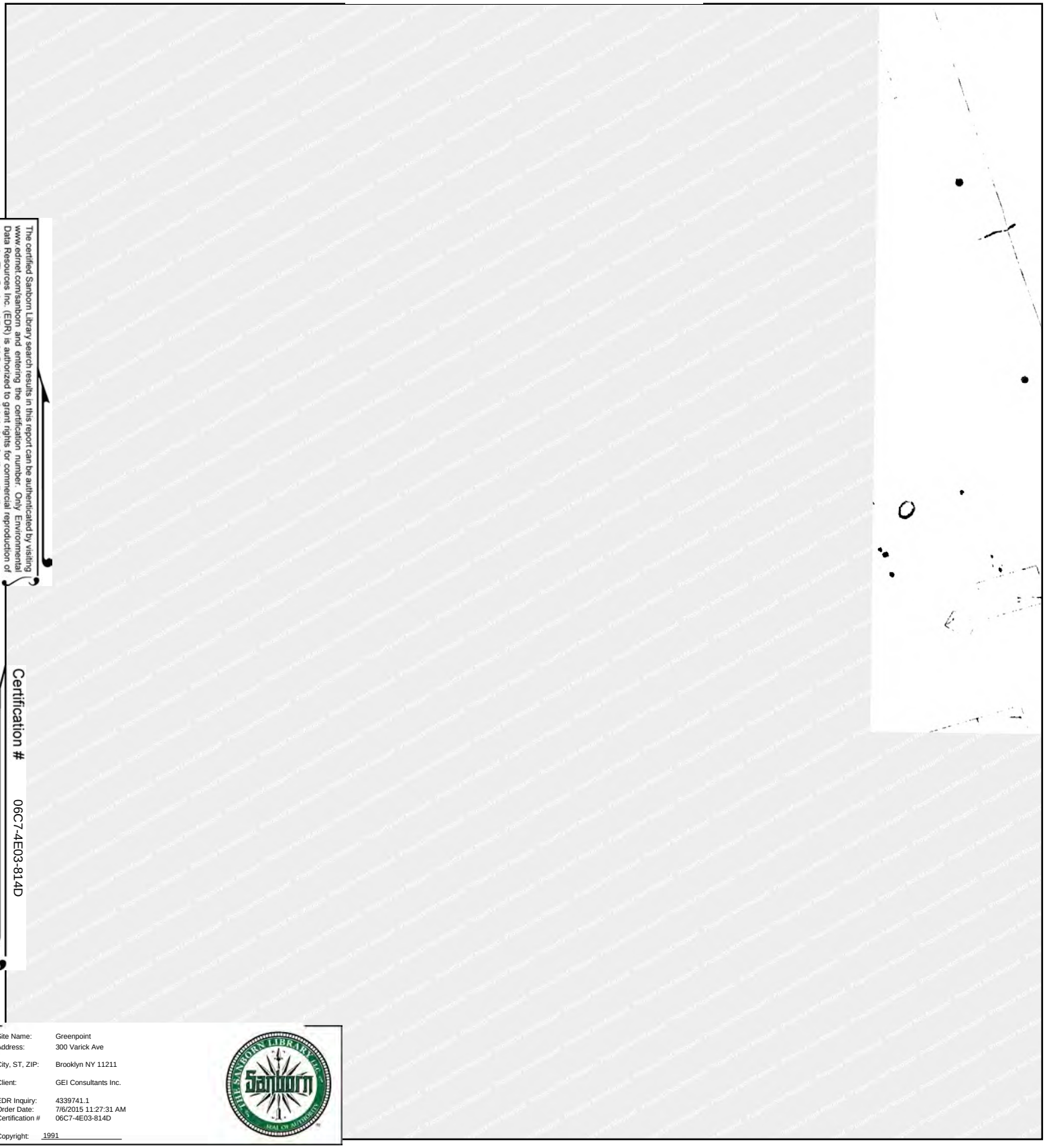

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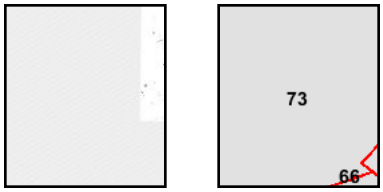

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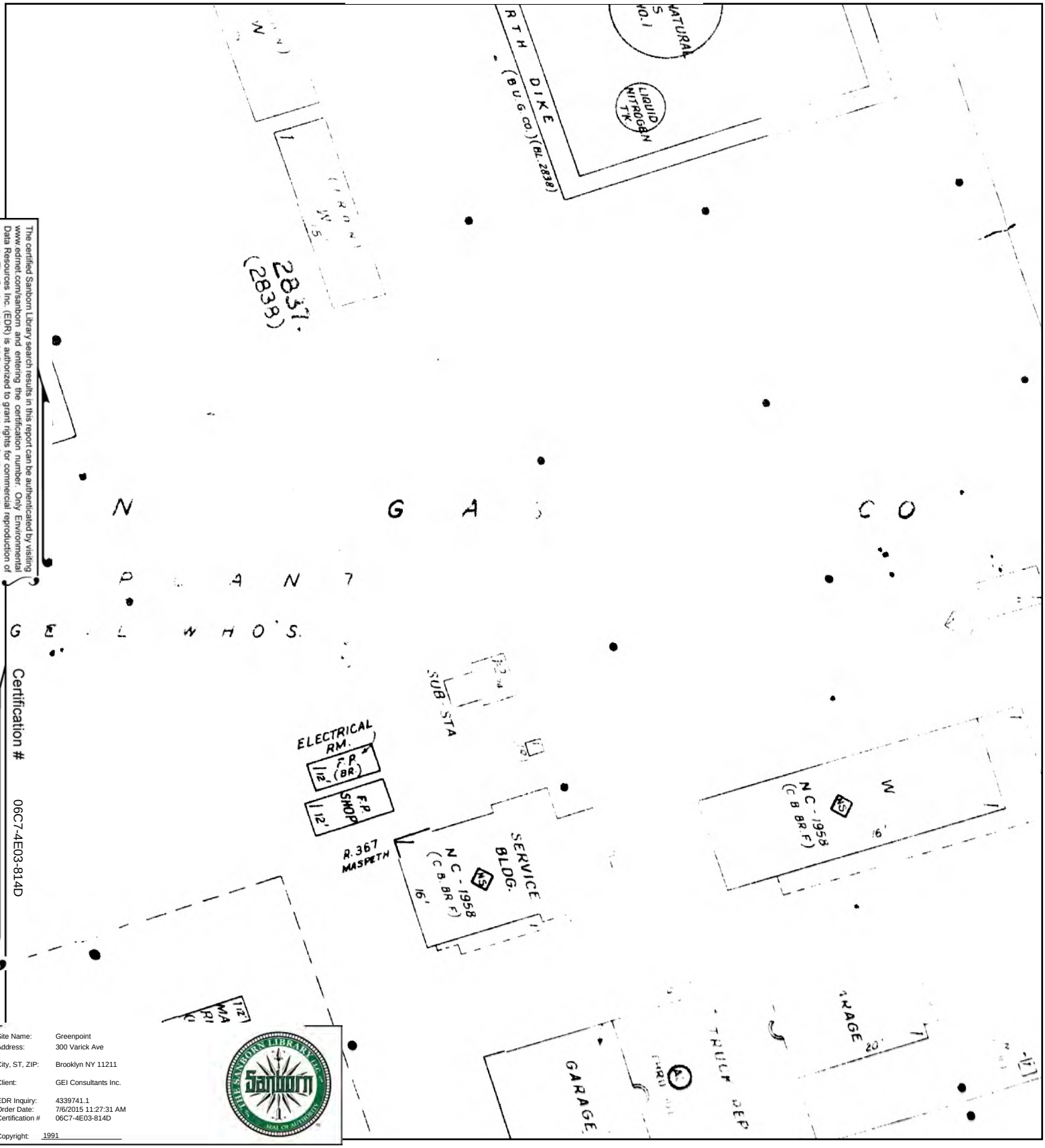

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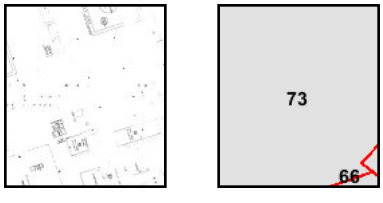

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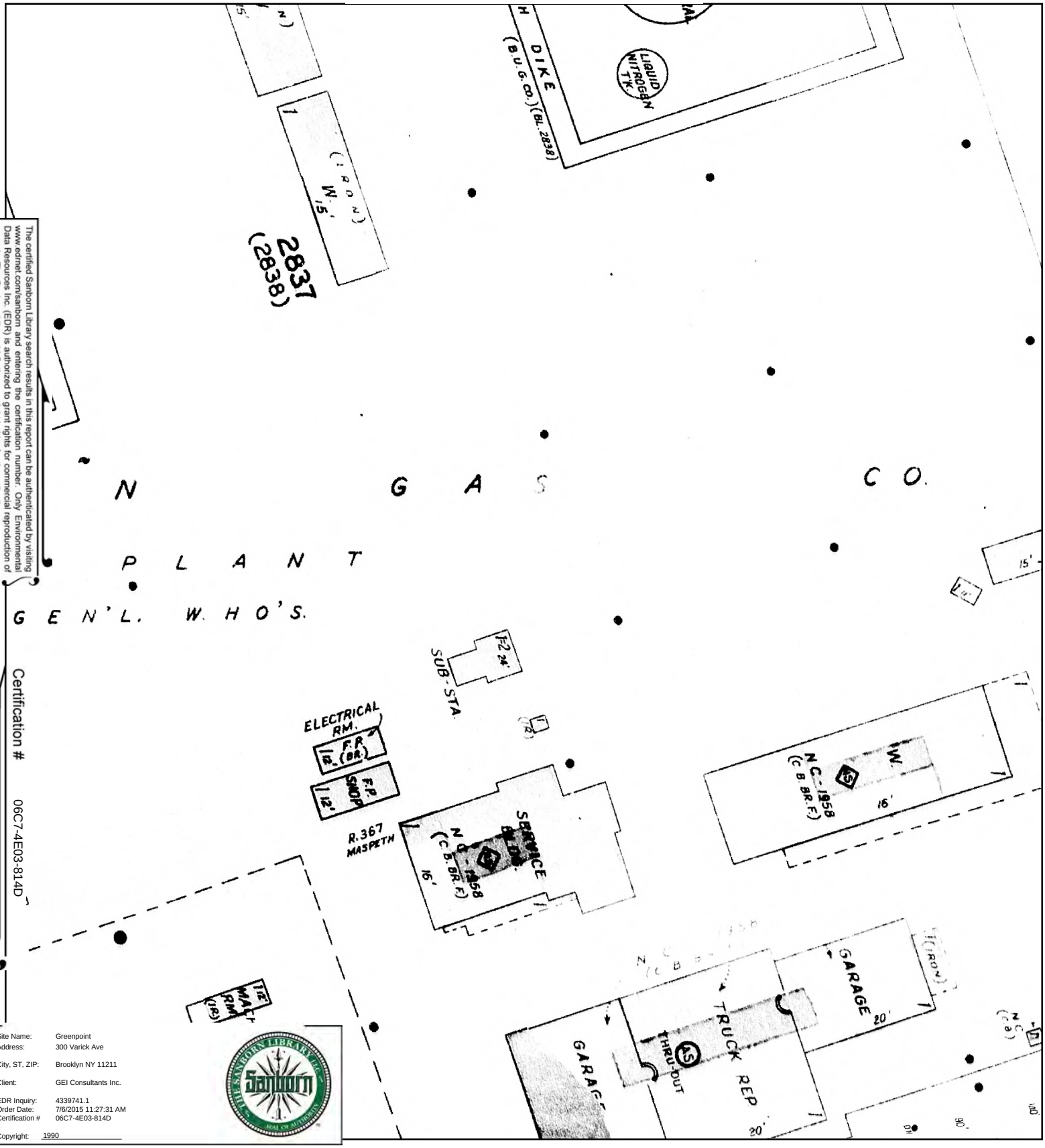

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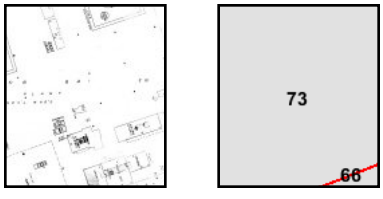

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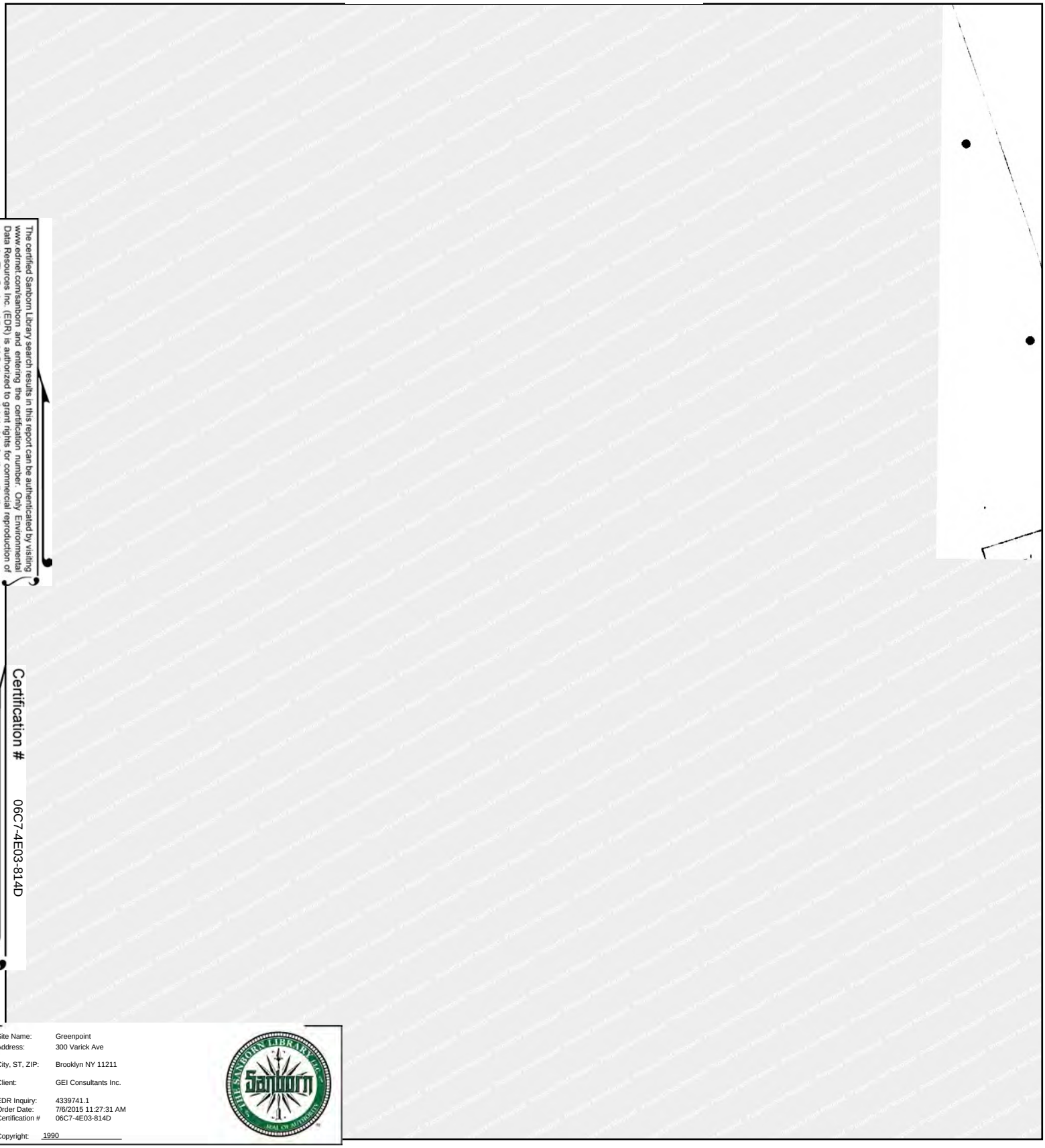

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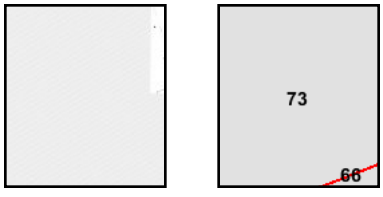

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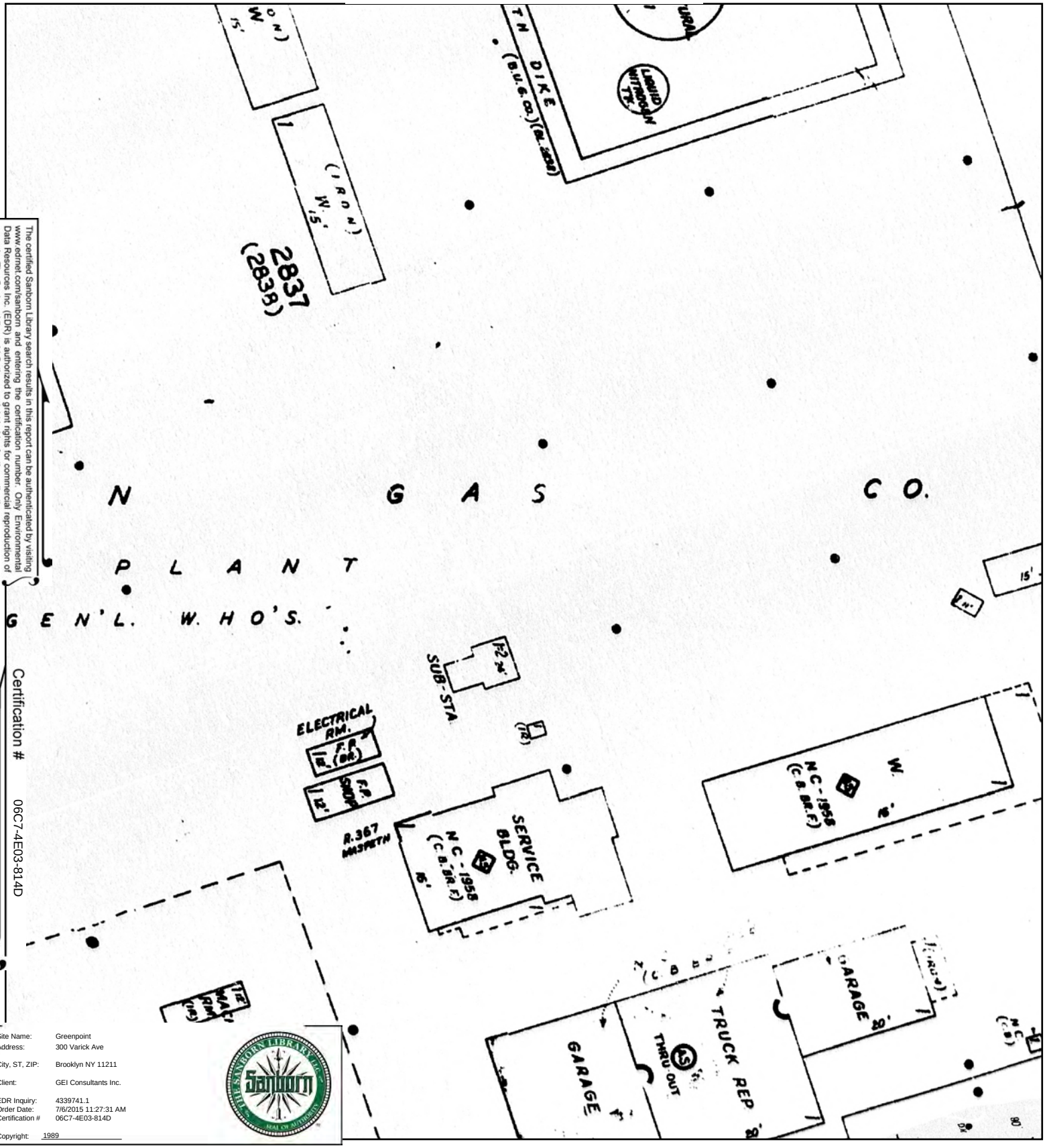

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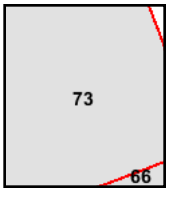

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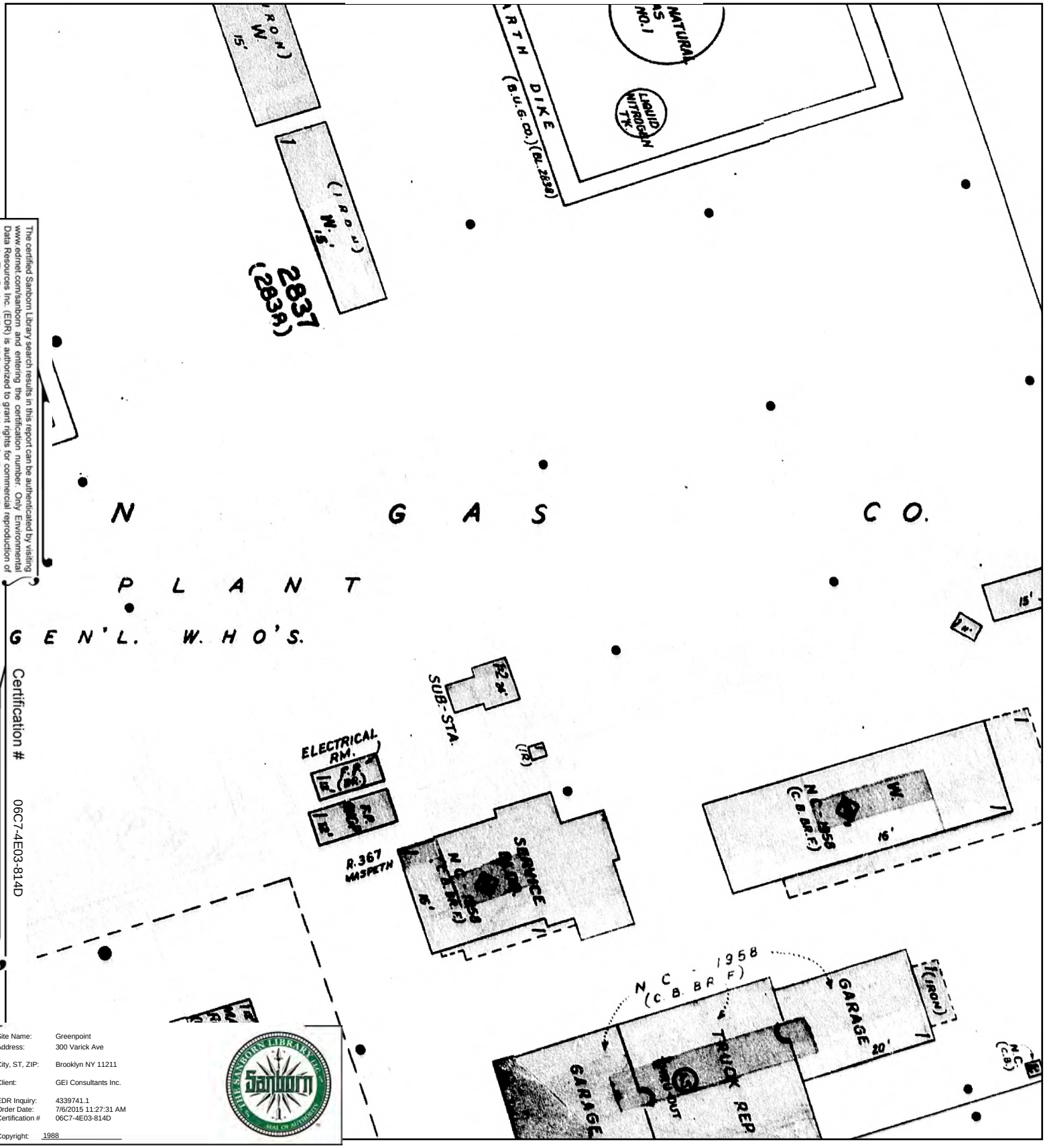

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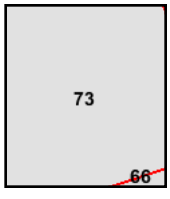

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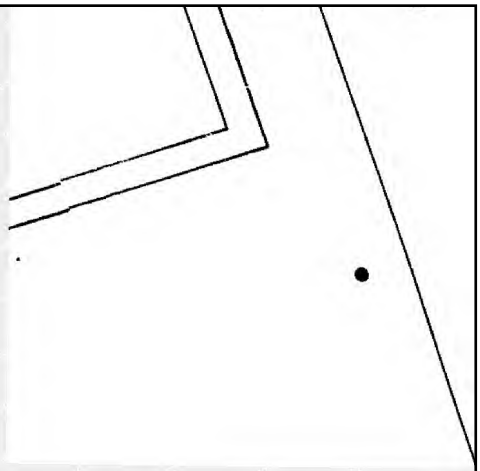

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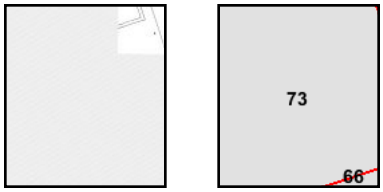

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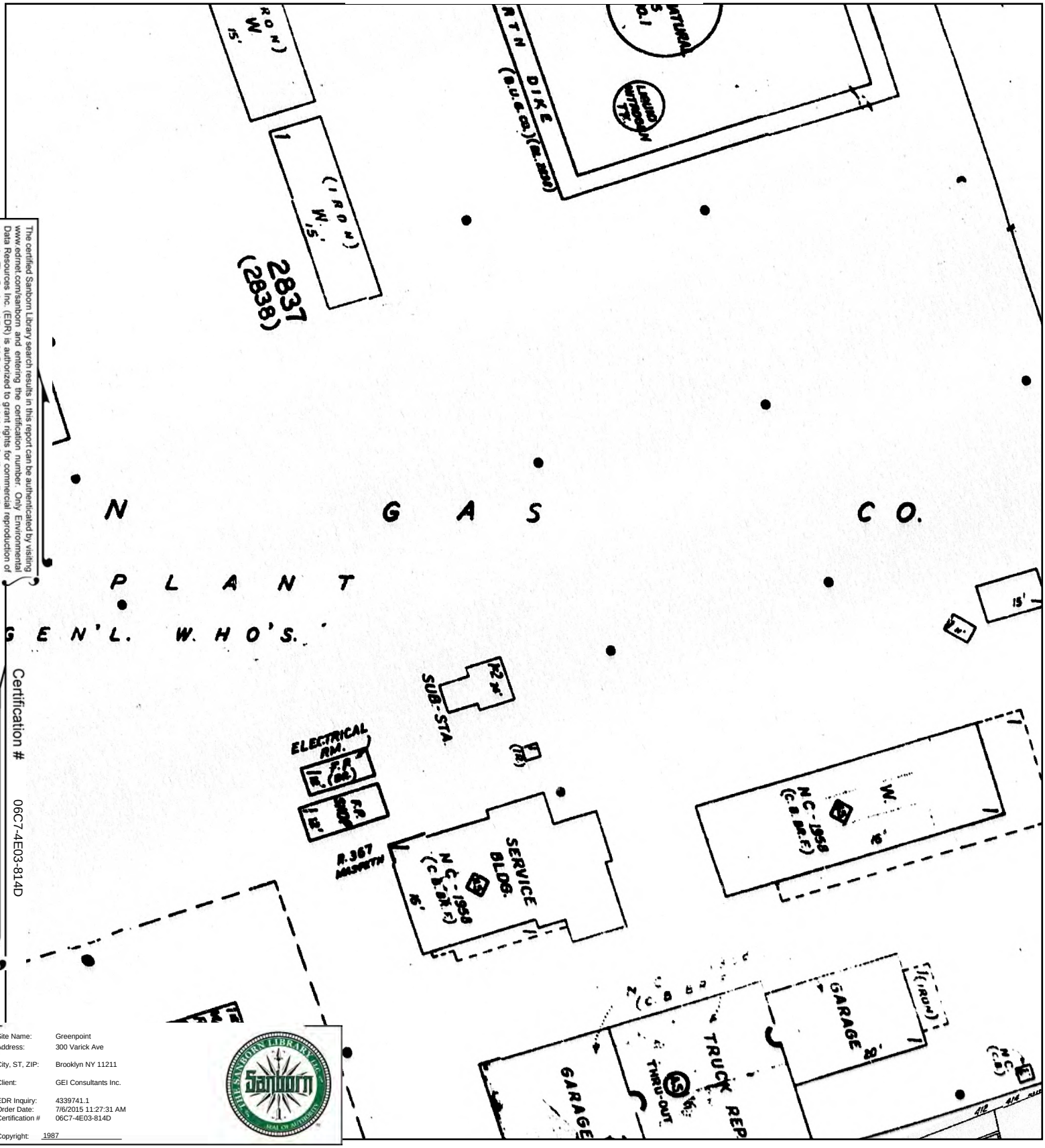

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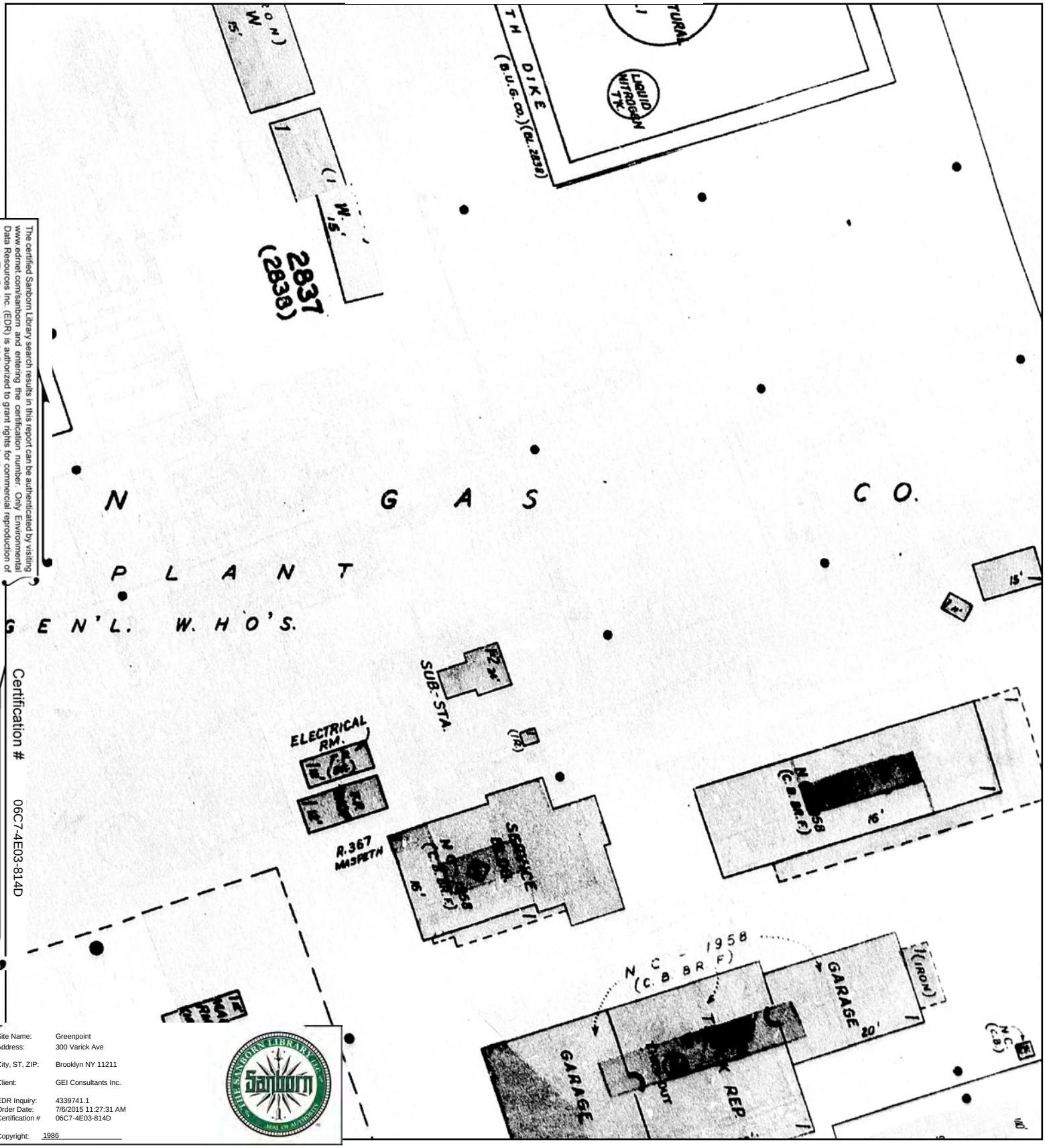

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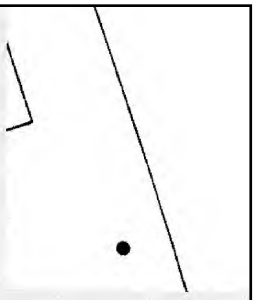

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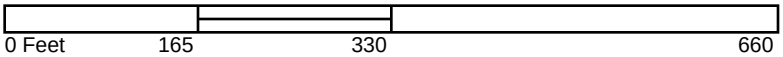



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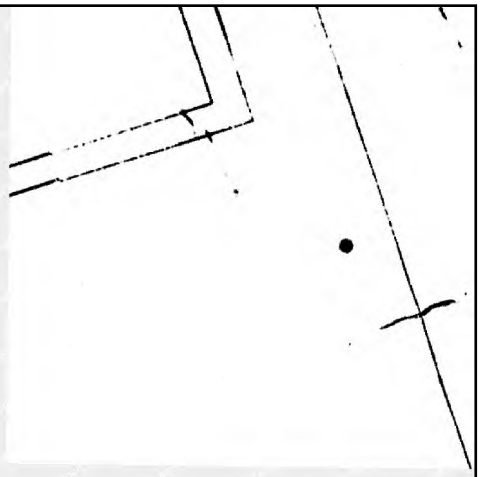

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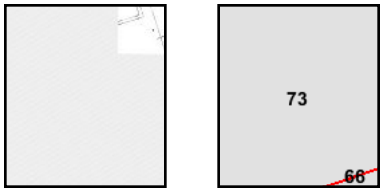

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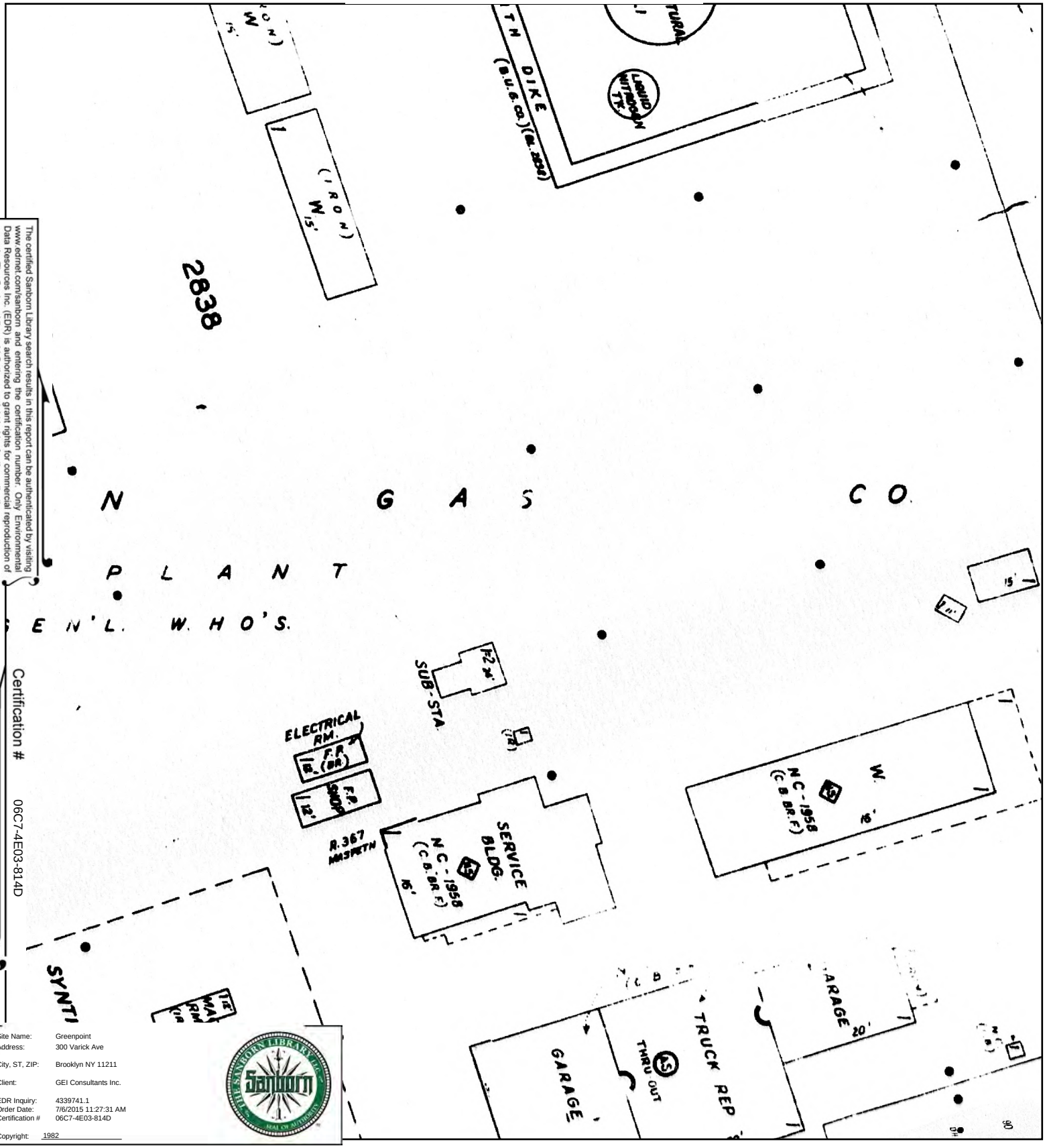

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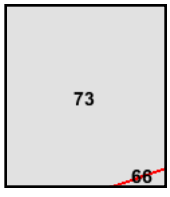

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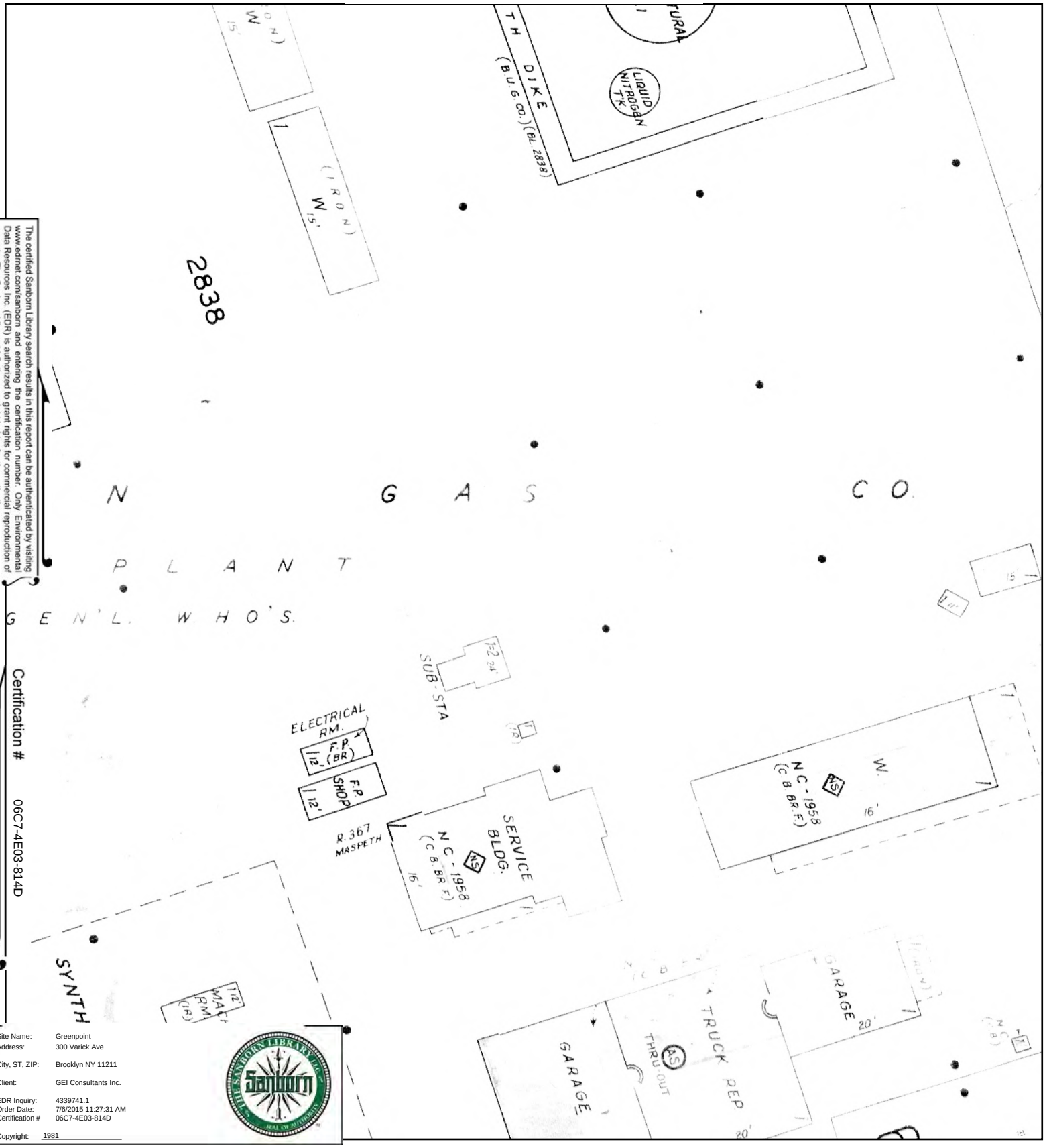

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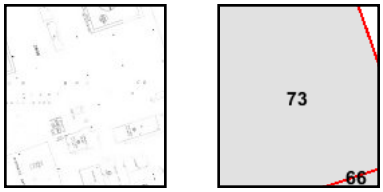

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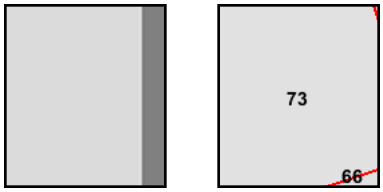

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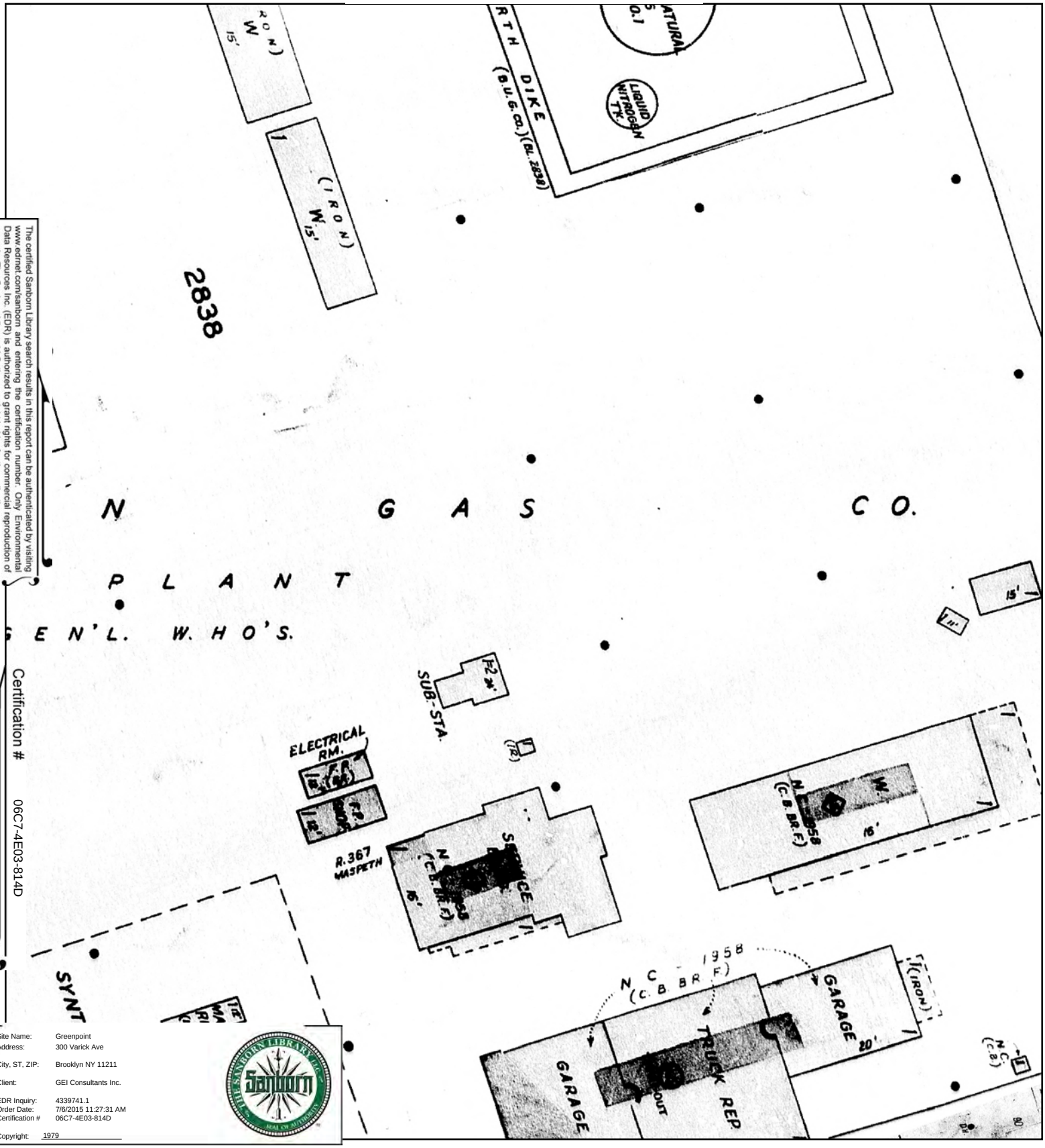

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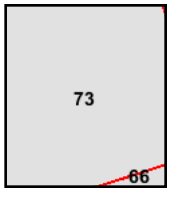

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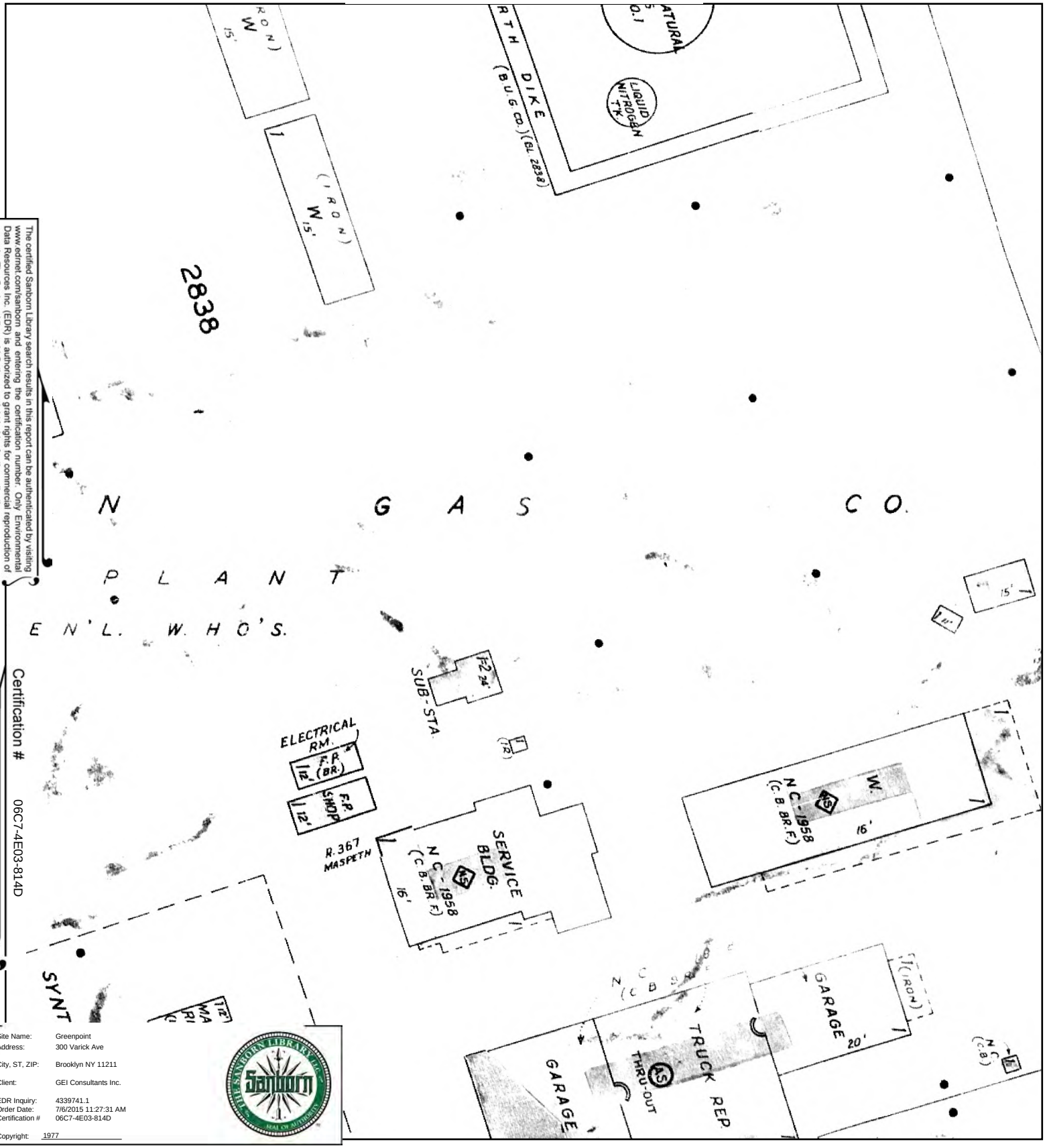

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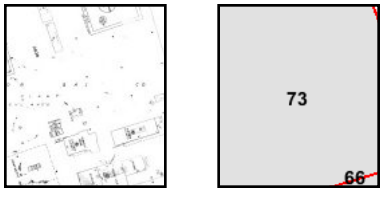

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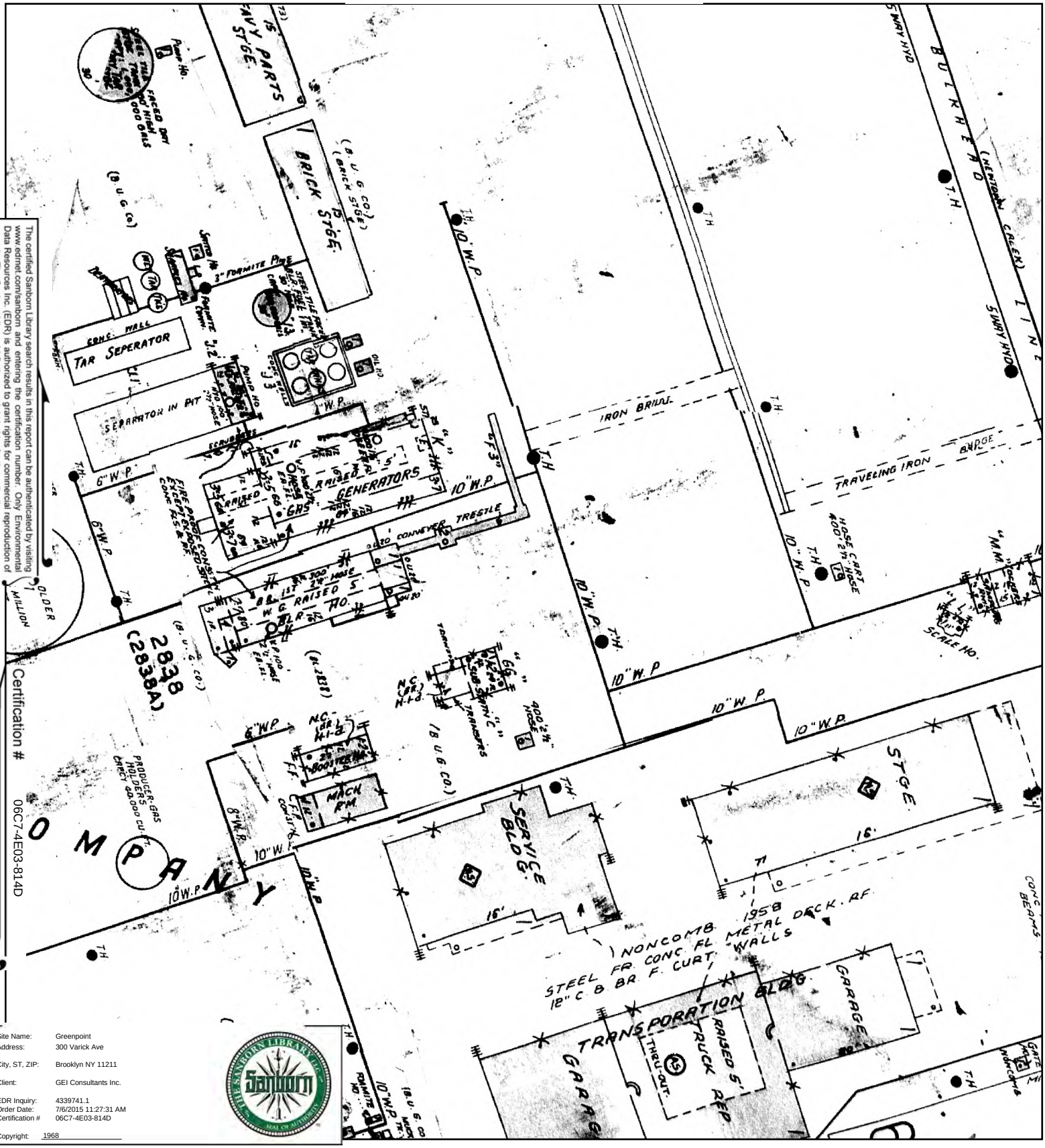

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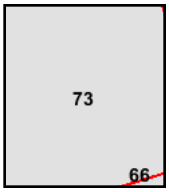

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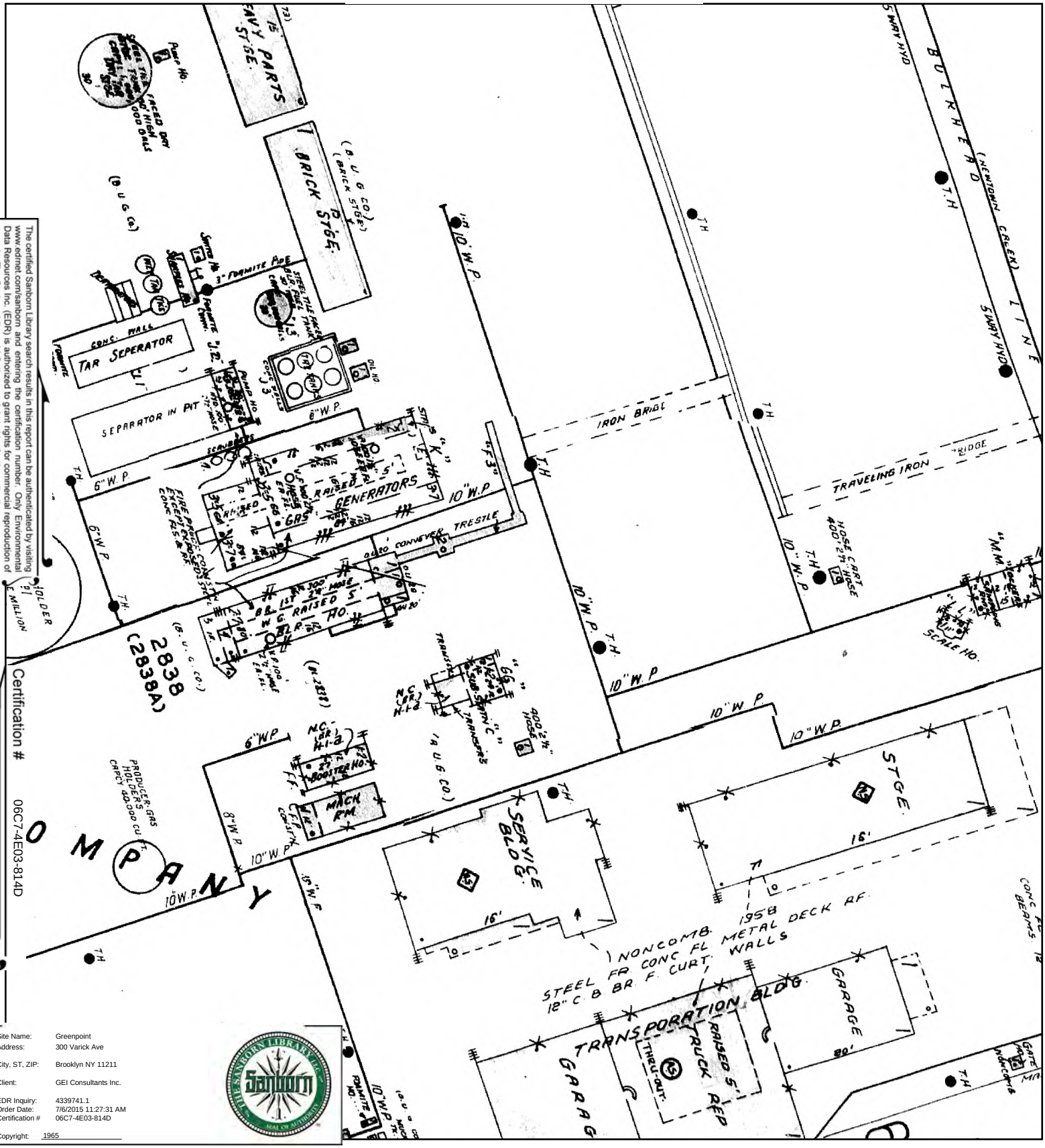
N

1965 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
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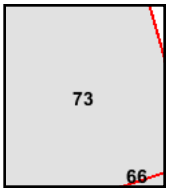

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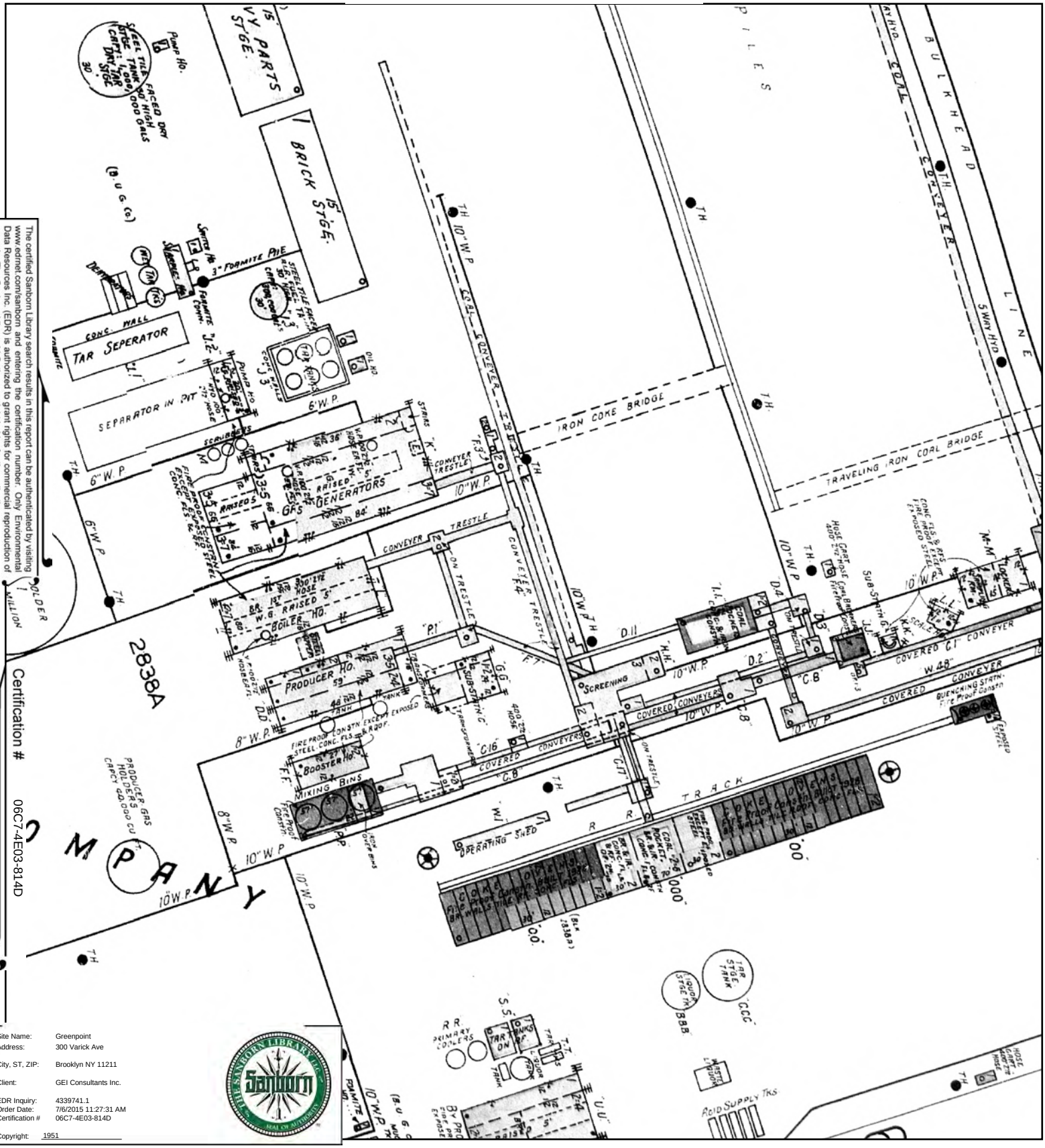
N

1951 Certified Sanborn Map



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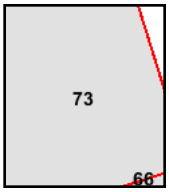

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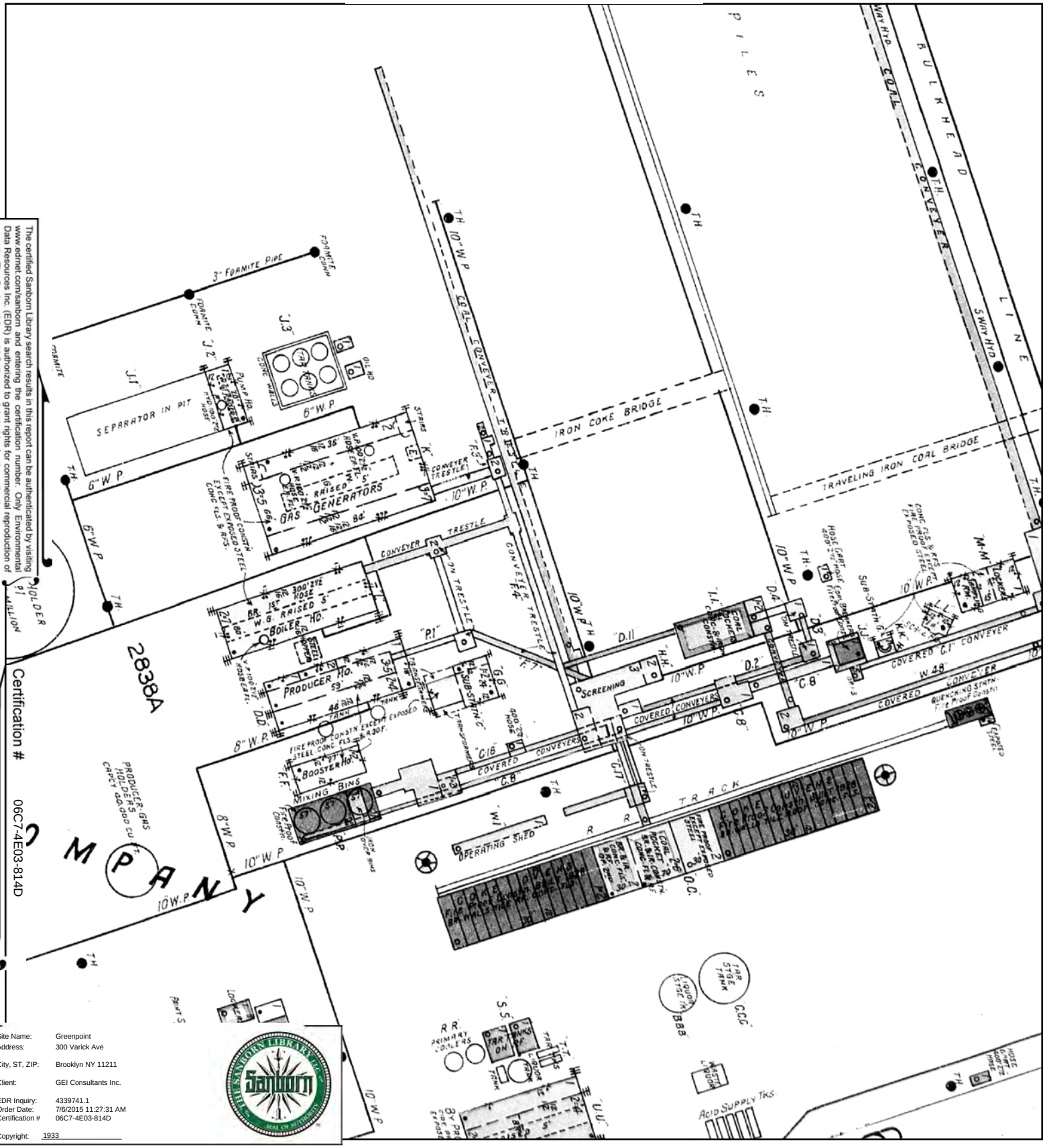
N

1933 Certified Sanborn Map



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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1933

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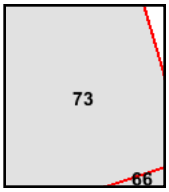

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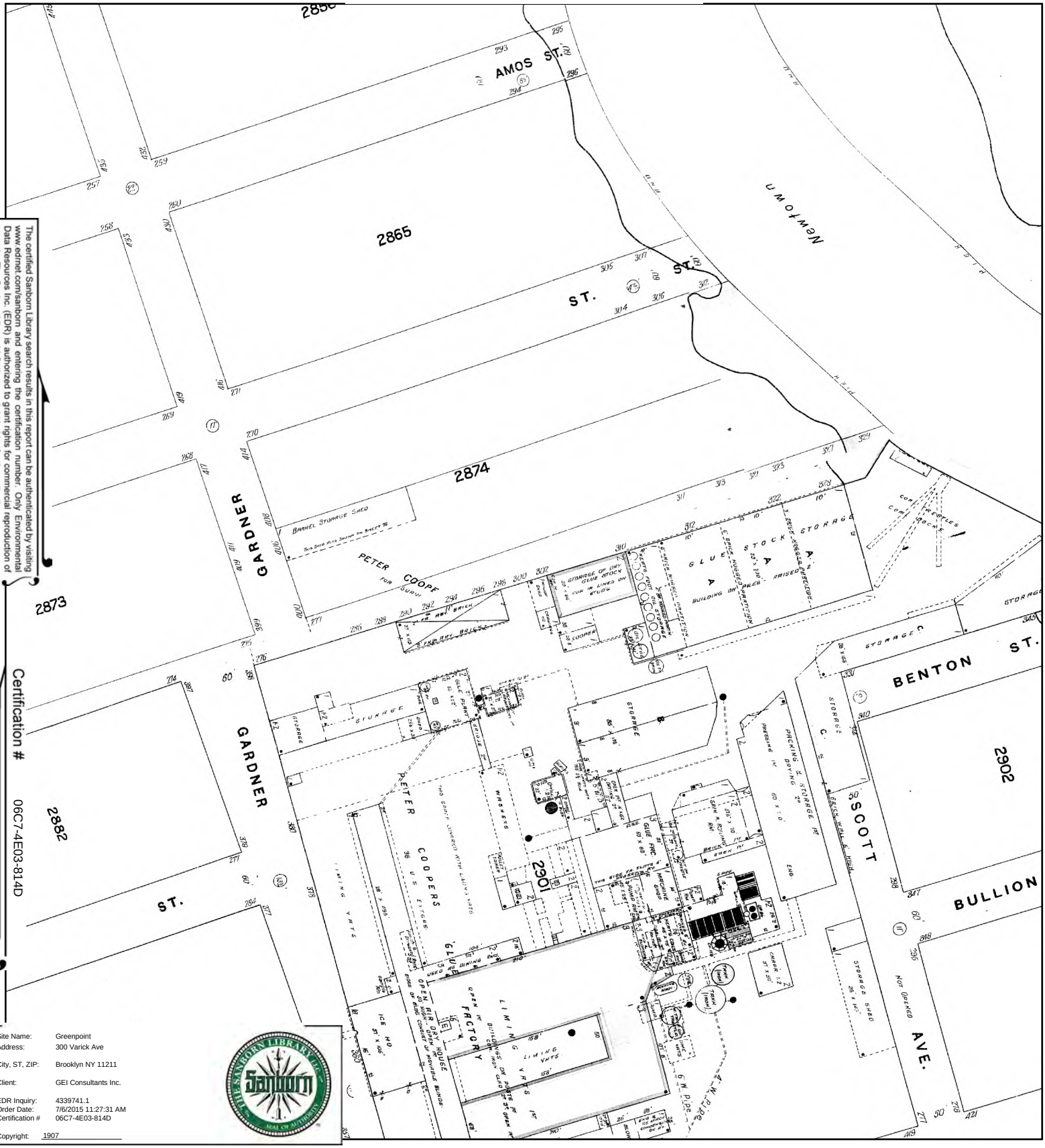
N

1907 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
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Copyright:	1907

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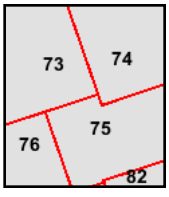

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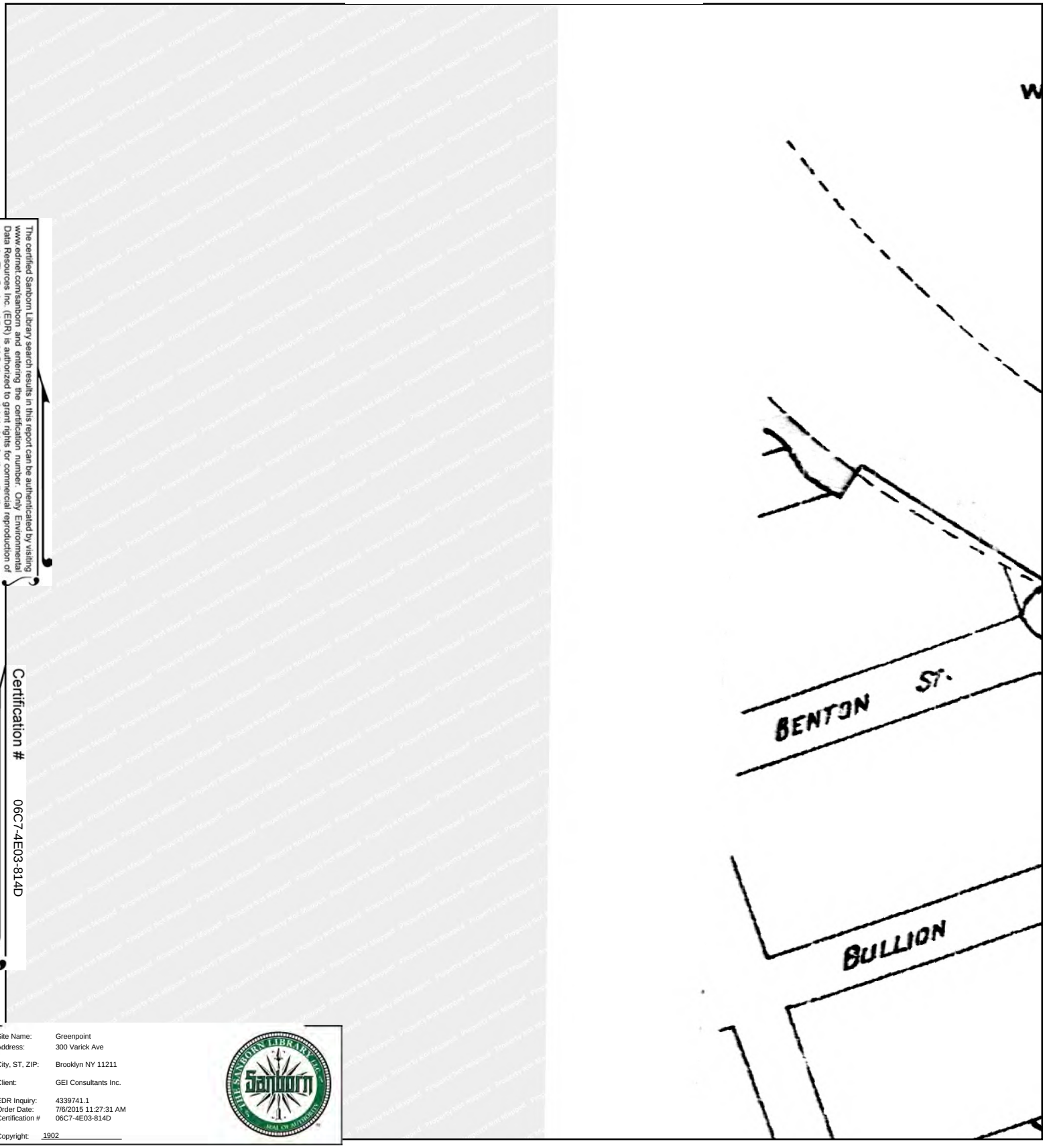
Volume 9, Sheet 74
Volume 9, Sheet 75
Volume 9, Sheet 76

N

1902 Certified Sanborn Map



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City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1902

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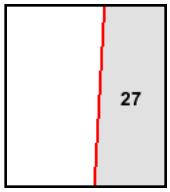

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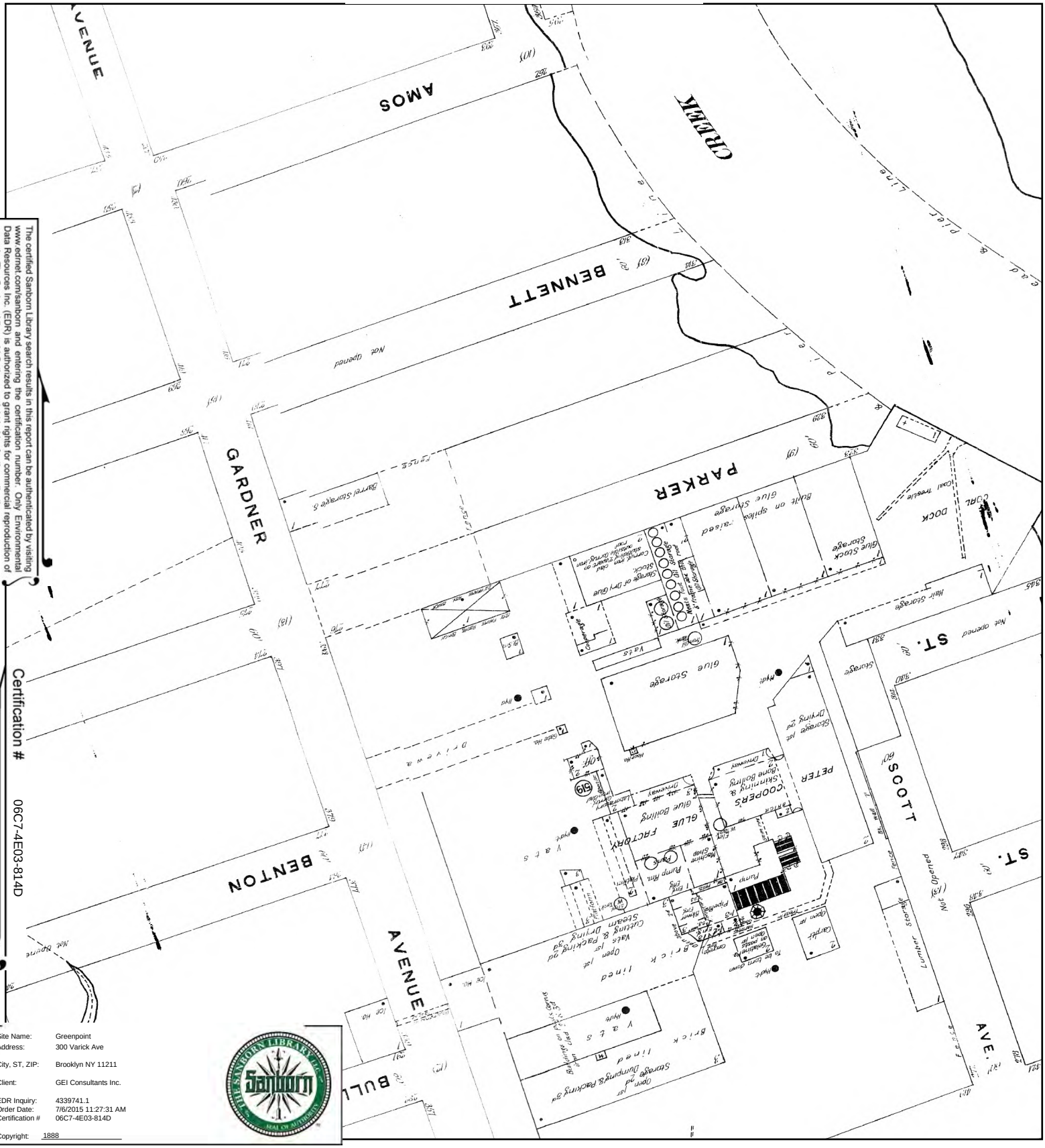
1888 Certified Sanborn Map


AMOS
BENNETT
GARDNER
PARKER
BENTON
AVENUE
SCOTT
ST.
AVE.
CREEK
DOCK
PETER
COOPERS
GLUE
FACTORY
Glue Storage
Glue Boiling
Glue Stock
Storage of Dry Glue
Not opened
Not opened
Not opened

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

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Shelton, Connecticut 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1992	1986	1977
2006	1999	1991	1985	1971
2005	1996	1990	1982	1968
2004	1995	1989	1981	1965
2003	1994	1988	1980	1951
2002	1993	1987	1979	1933

1914
1907
1902
1888

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

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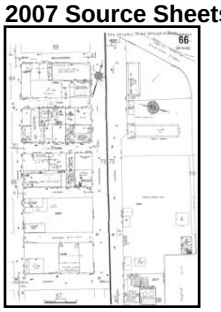

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Volume 9, Sheet 73

2006 Source Sheets



Volume 9, Sheet 66



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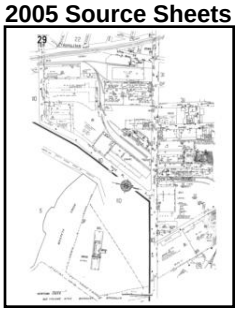
2005 Source Sheets



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2004 Source Sheets



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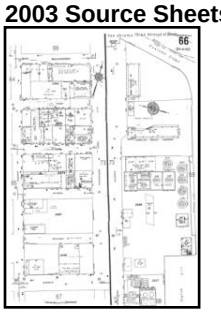
2003 Source Sheets



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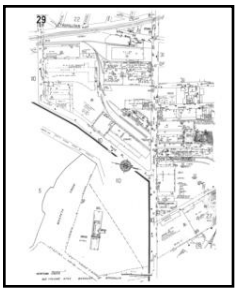

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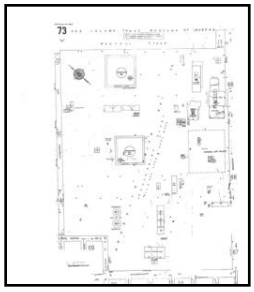
2002 Source Sheets



Volume 9, Sheet 66



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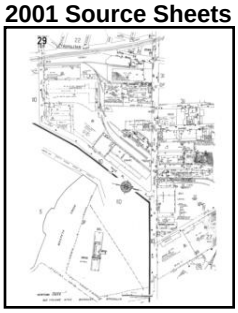

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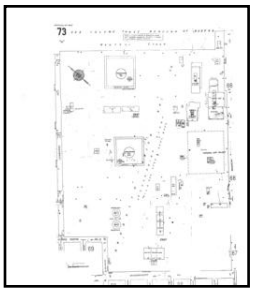

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1999 Source Sheets



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Volume 3, Sheet 110

1996 Source Sheets



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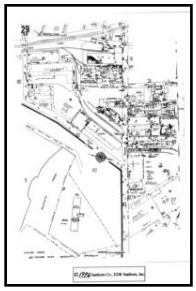

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1995 Source Sheets



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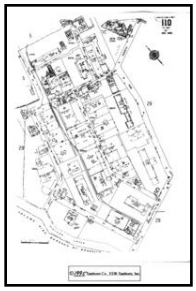

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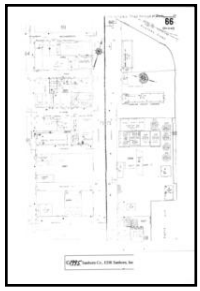

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1994 Source Sheets



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1993 Source Sheets



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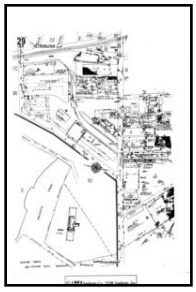

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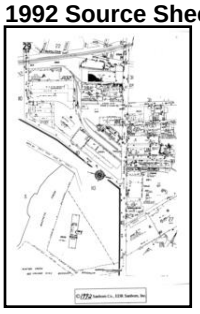

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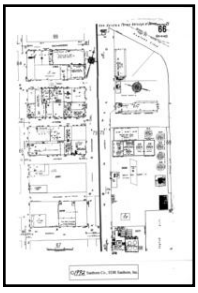

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1991 Source Sheets



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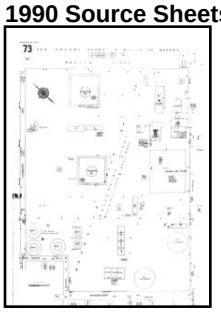
1990 Source Sheets



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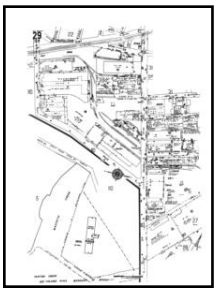

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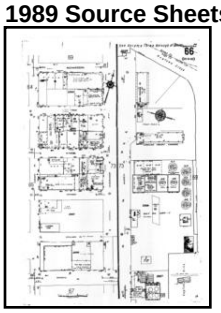

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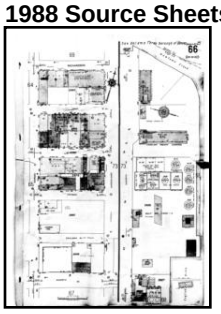

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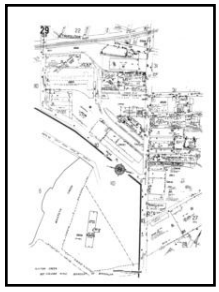

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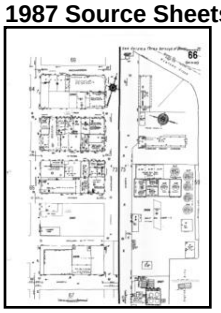

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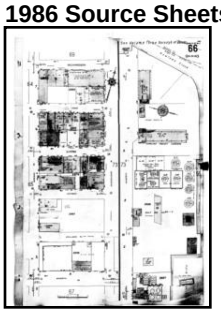

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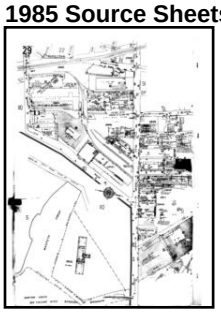
1985 Source Sheets



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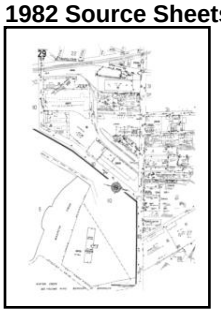
1982 Source Sheets



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1981 Source Sheets



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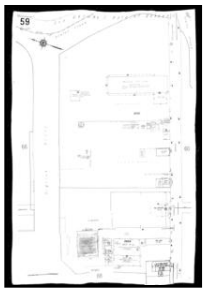

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1980 Source Sheets



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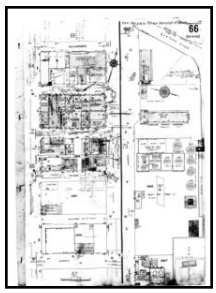

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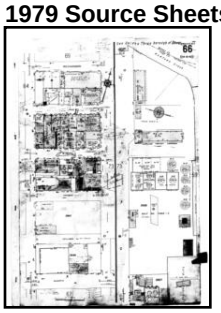
1979 Source Sheets



Volume 9, Sheet 66



Volume 9, Sheet 73

1977 Source Sheets

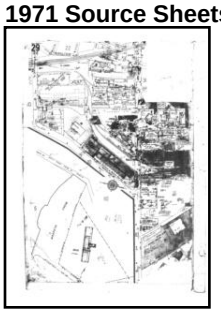


Volume 9, Sheet 66



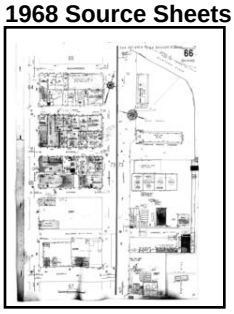
Volume 9, Sheet 73

1971 Source Sheets



Volume 3, Sheet 29

1968 Source Sheets



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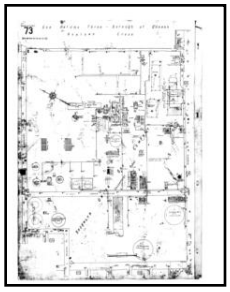

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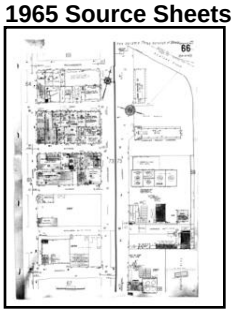
1965 Source Sheets



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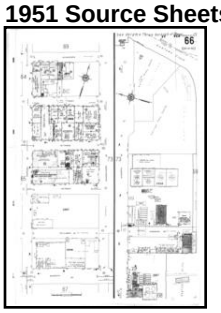
Volume 9, Sheet 73

1951 Source Sheets

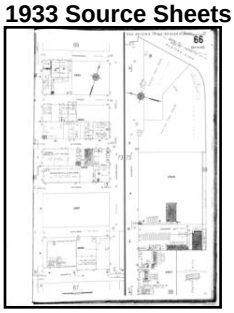


Volume 9, Sheet 66



Volume 9, Sheet 73

1933 Source Sheets



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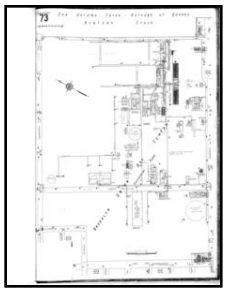
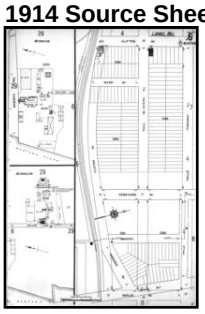


Volume 9, Sheet 73

1914 Source Sheets

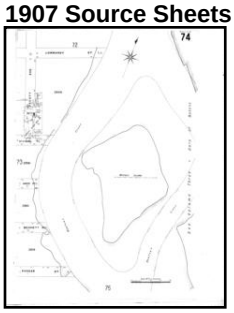


Volume 3, Sheet 6



Volume 3, Sheet 29

1907 Source Sheets



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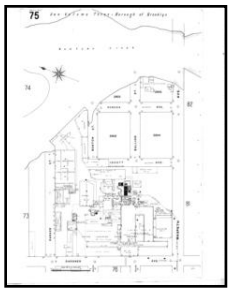

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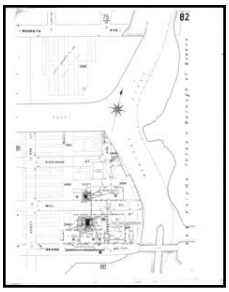
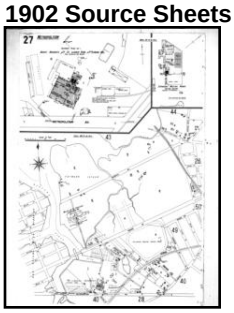


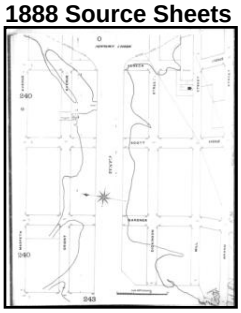
Volume 9, Sheet 82

1902 Source Sheets

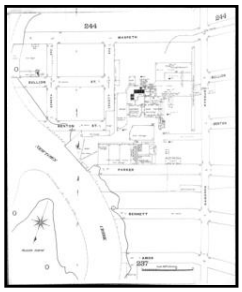


Volume 3, Sheet 27

1888 Source Sheets



Volume 9, Sheet 243



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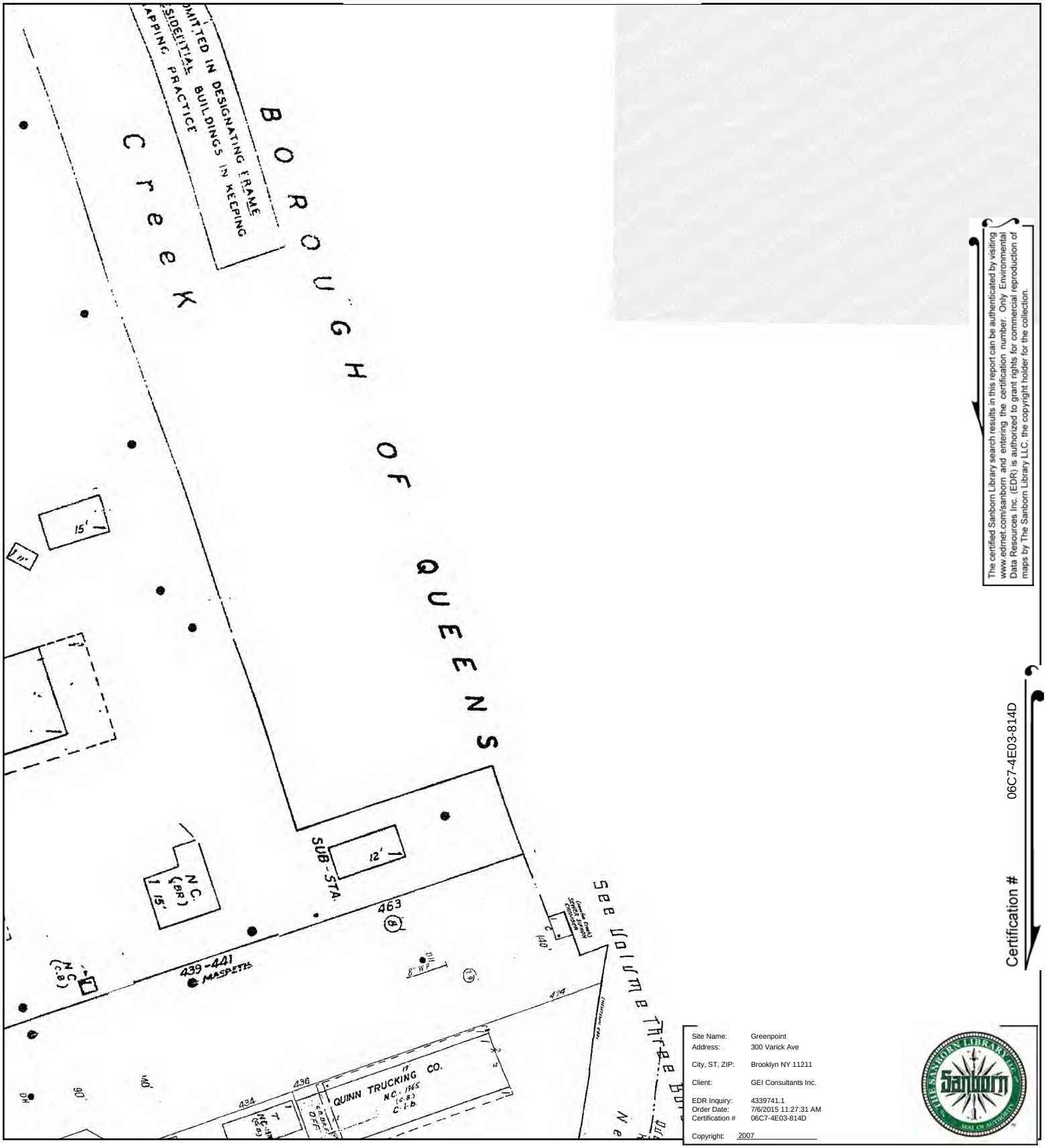

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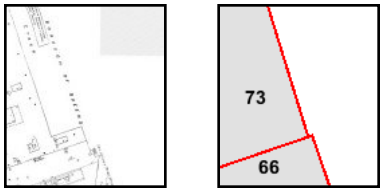

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Volume 9, Sheet 73

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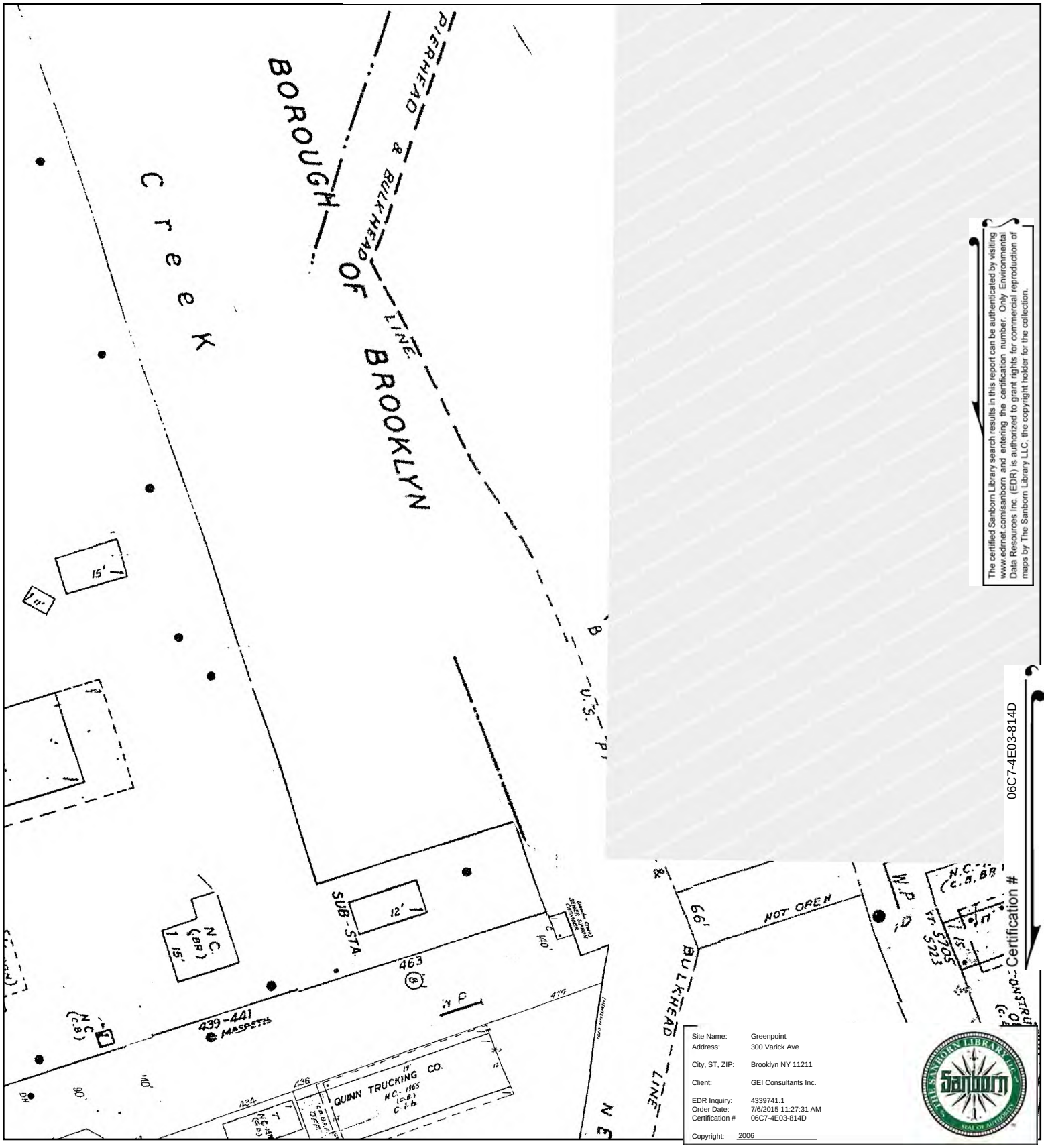
2006 Certified Sanborn Map



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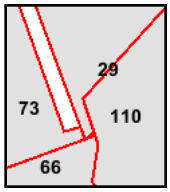

Volume 9, Sheet 66
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Volume 3, Sheet 29
Volume 3, Sheet 110

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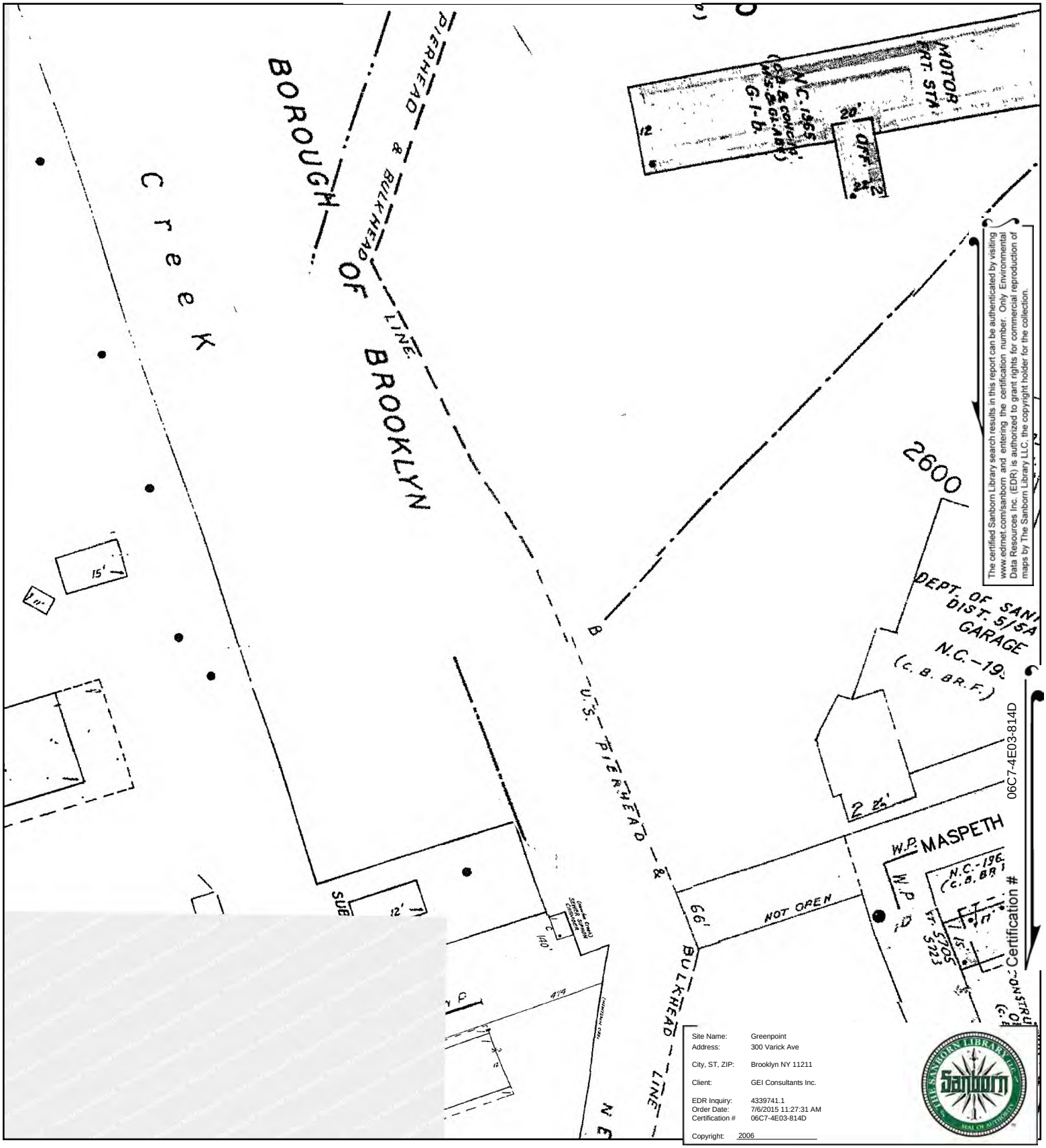

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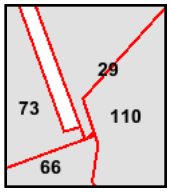

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Volume 3, Sheet 29
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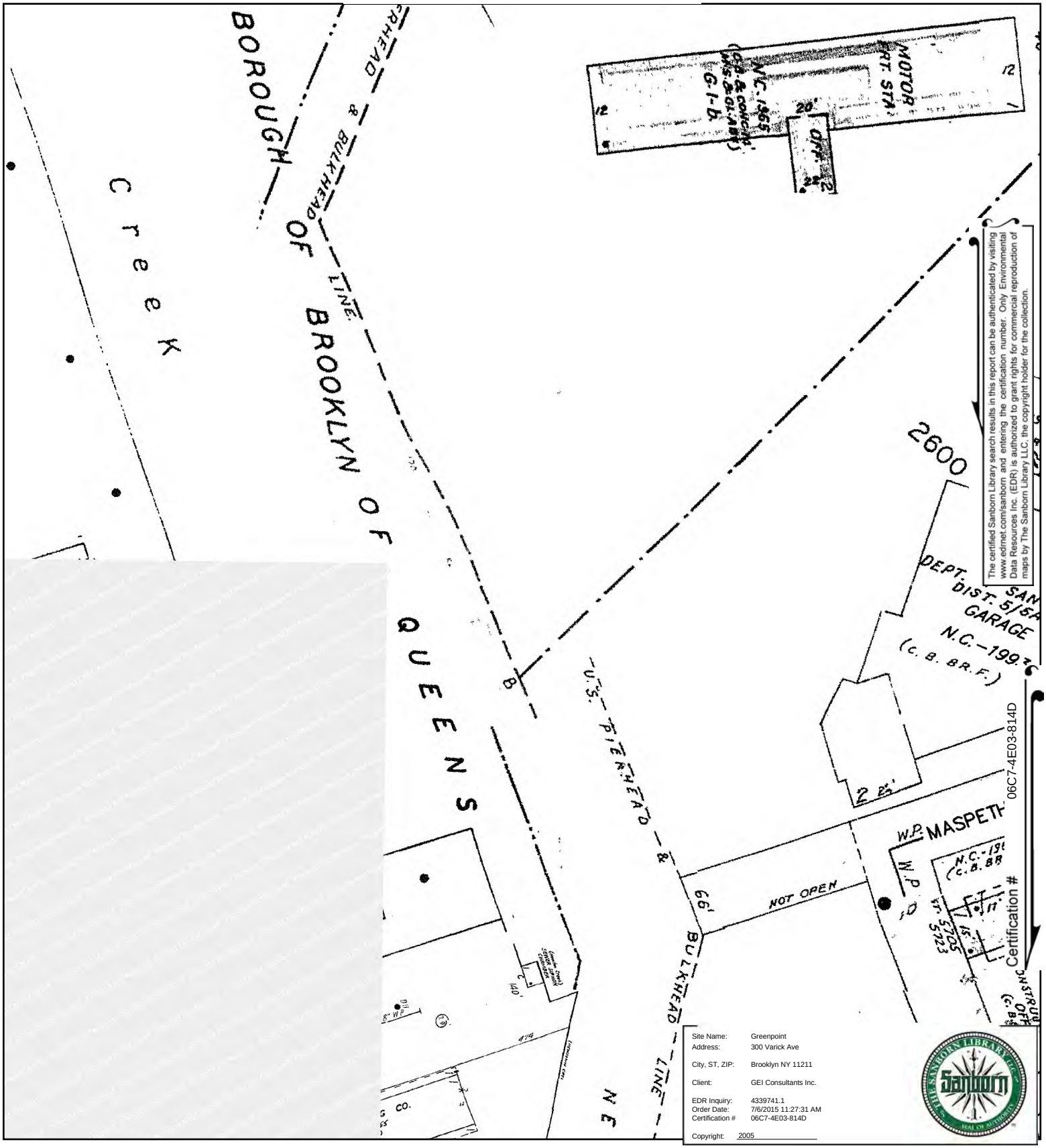

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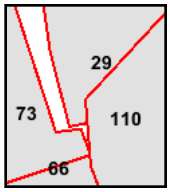

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Volume 9, Sheet 66

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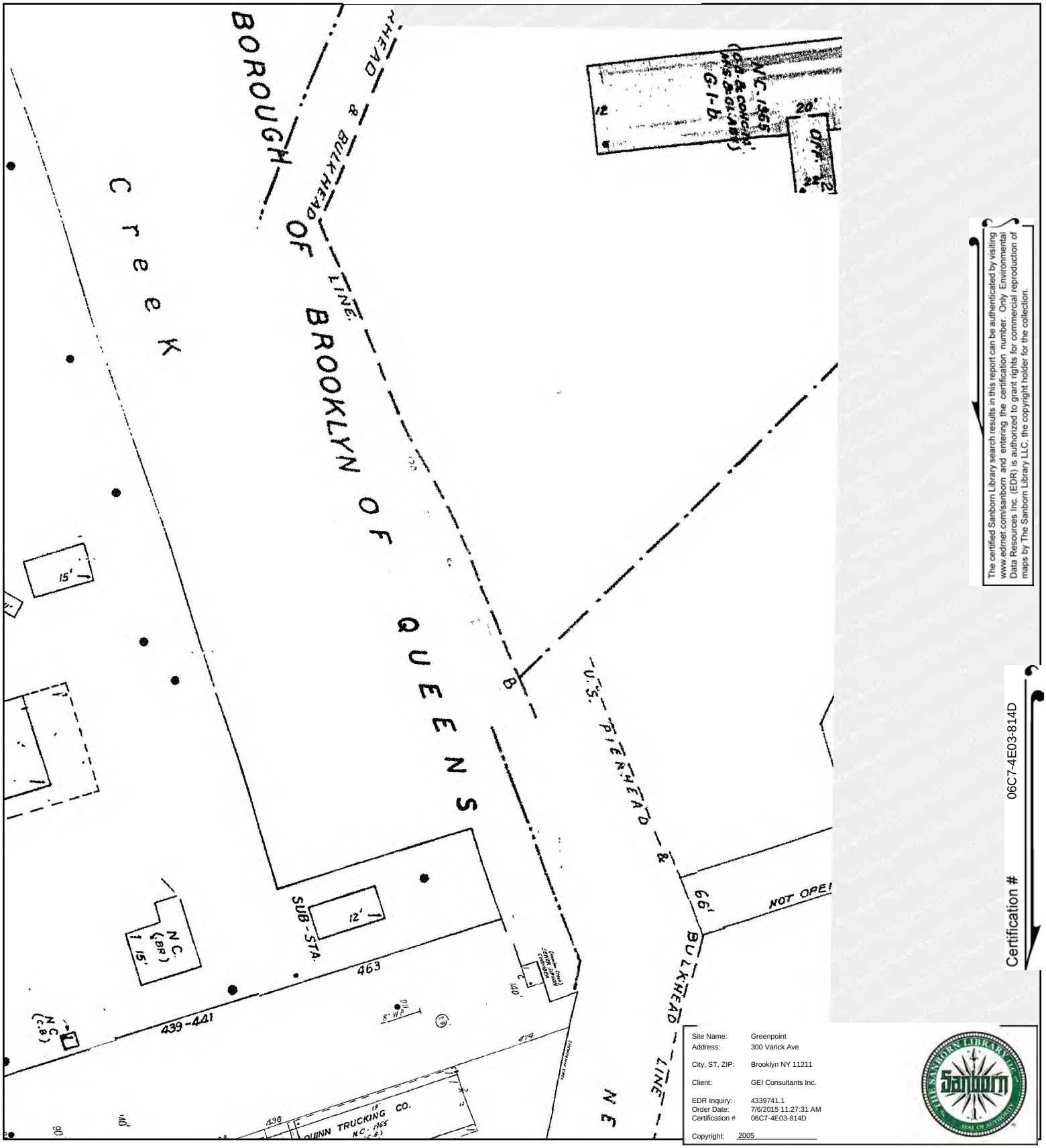

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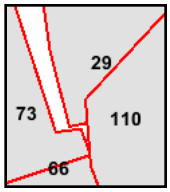

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Volume 3, Sheet 110
Volume 9, Sheet 73
Volume 9, Sheet 66

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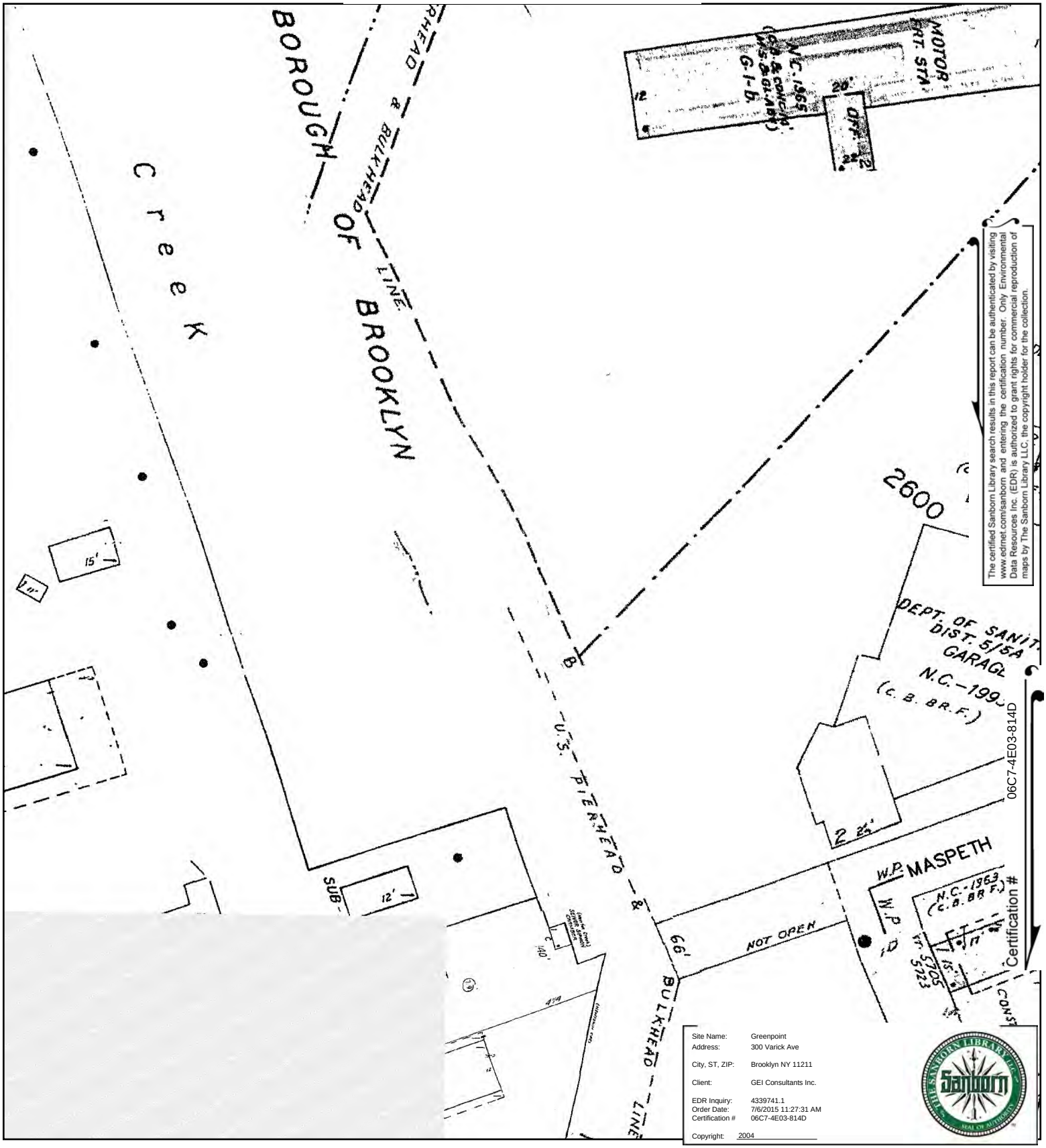

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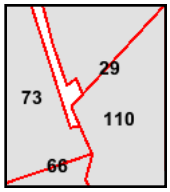

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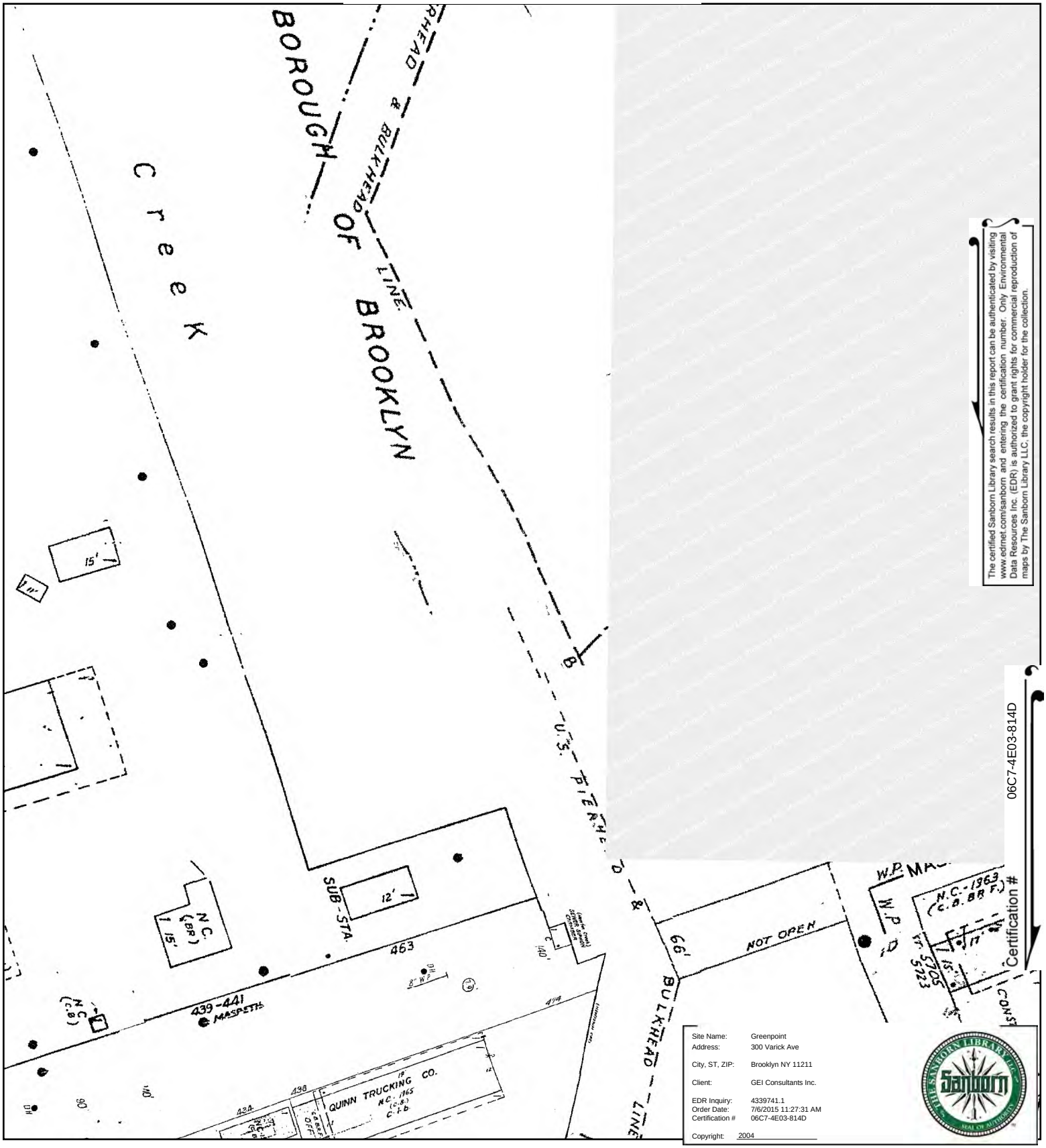

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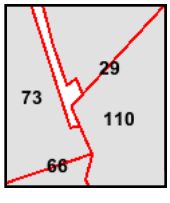

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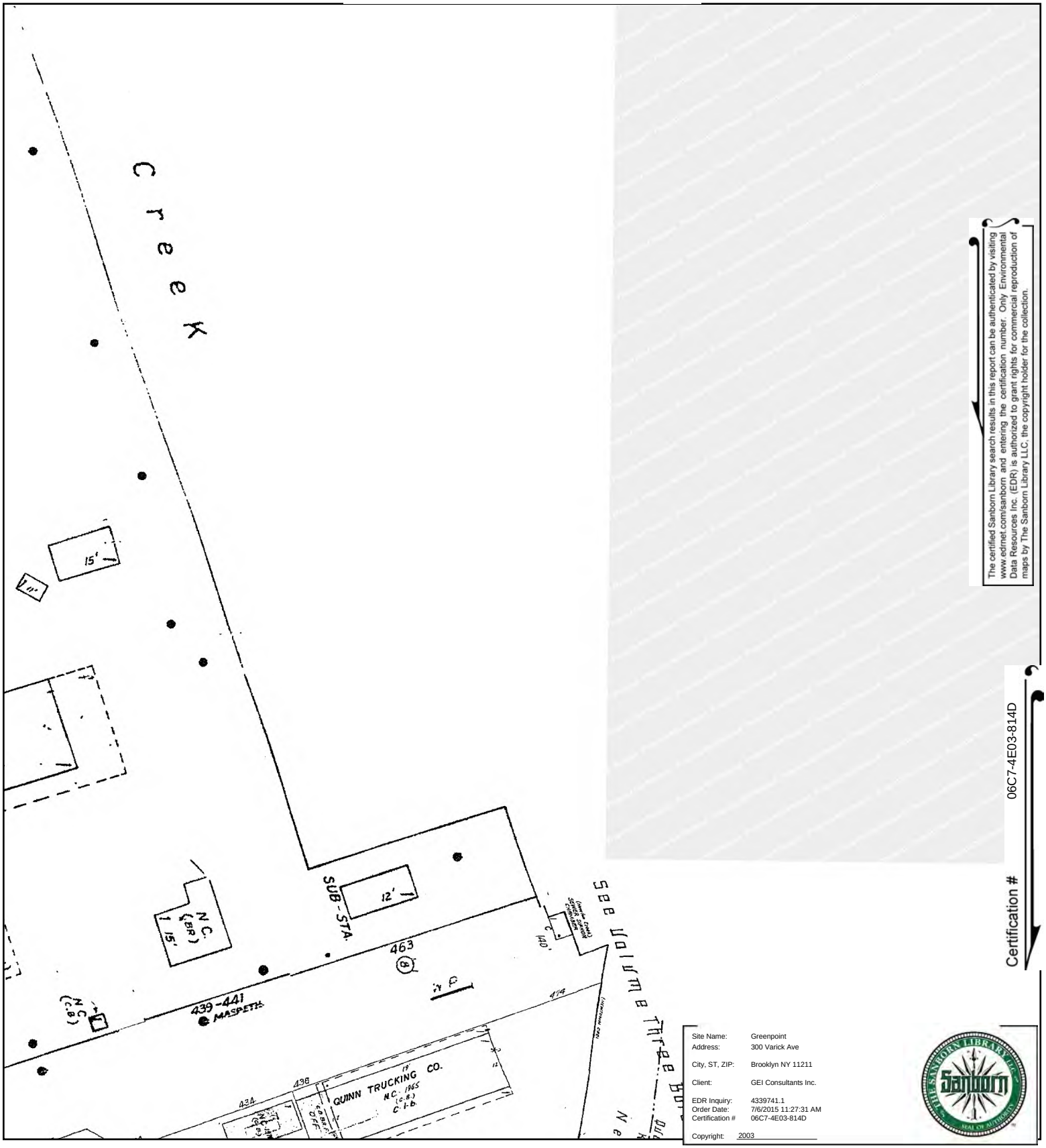

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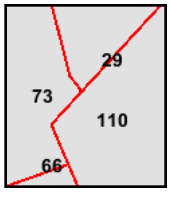

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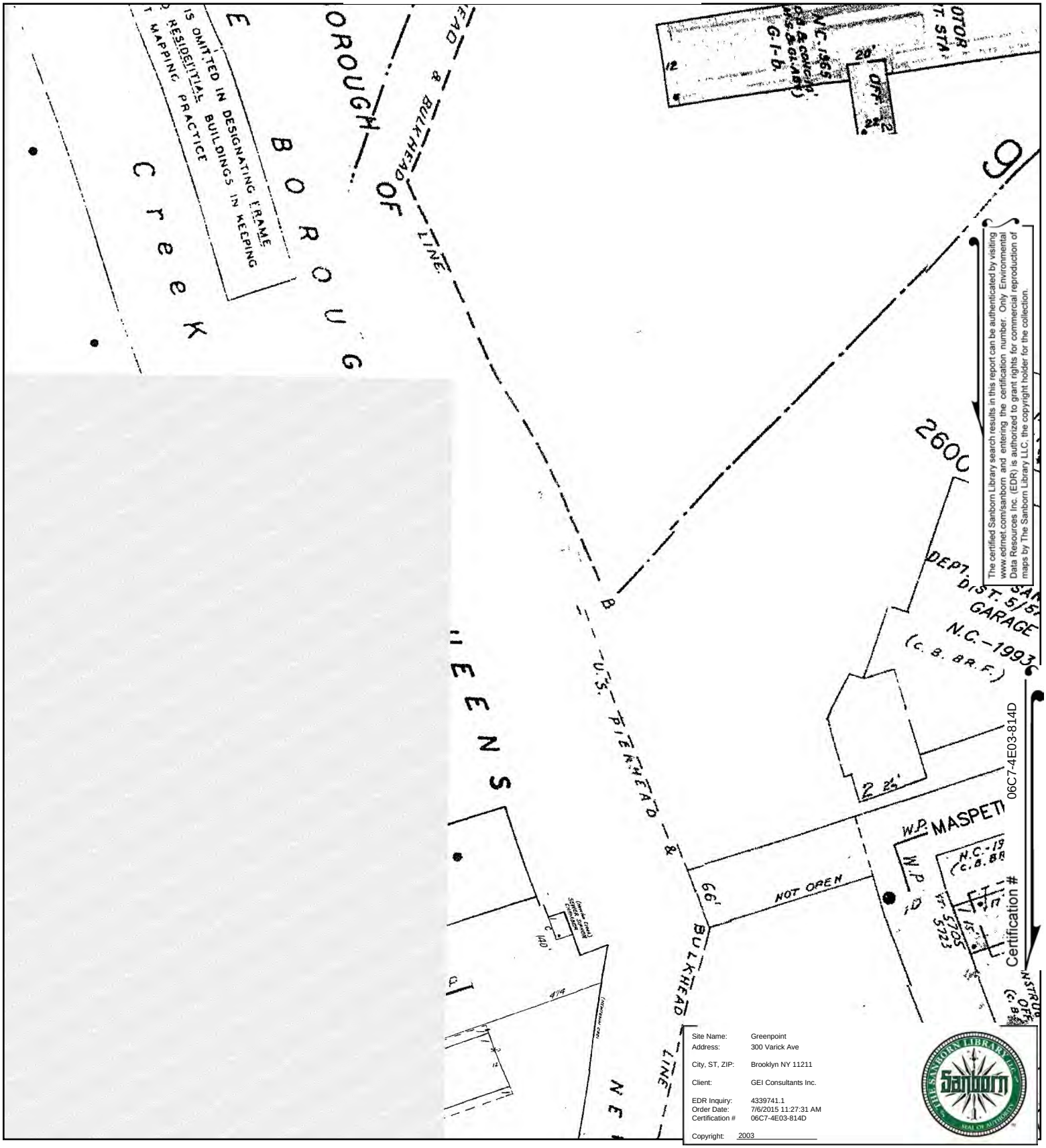

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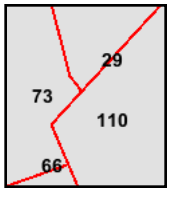

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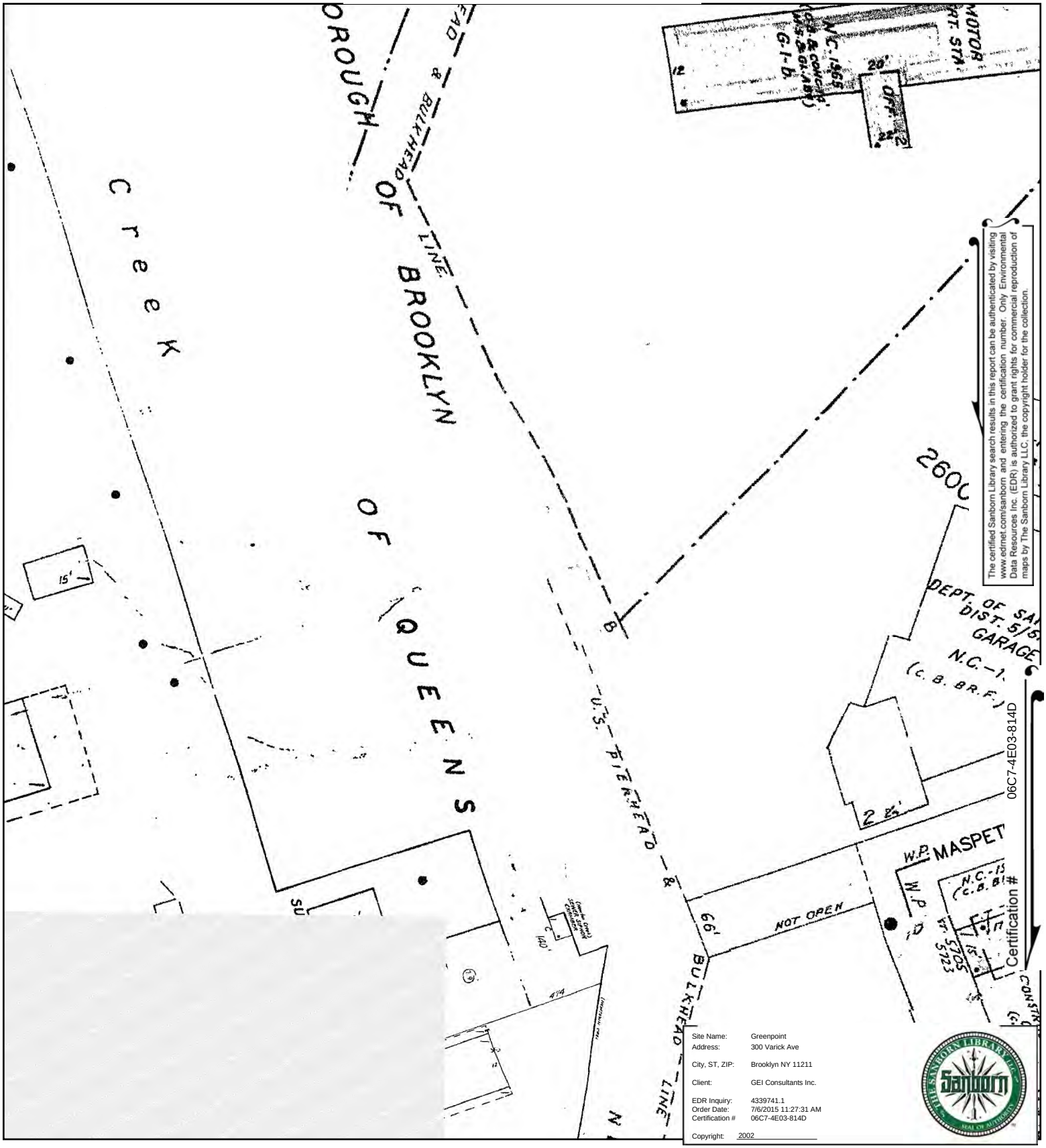

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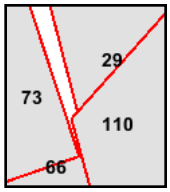

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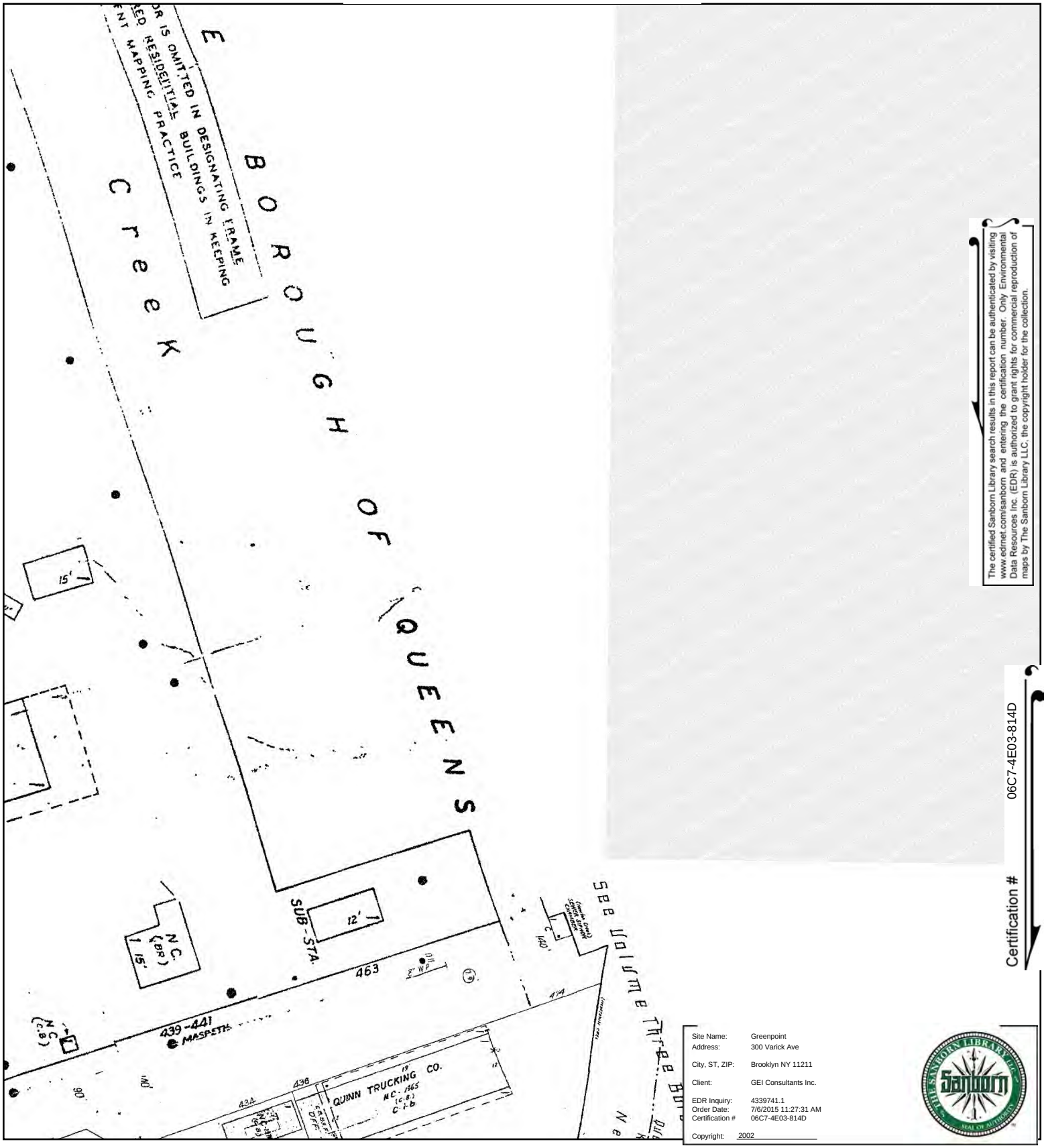

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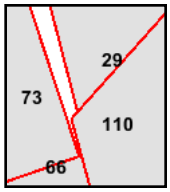

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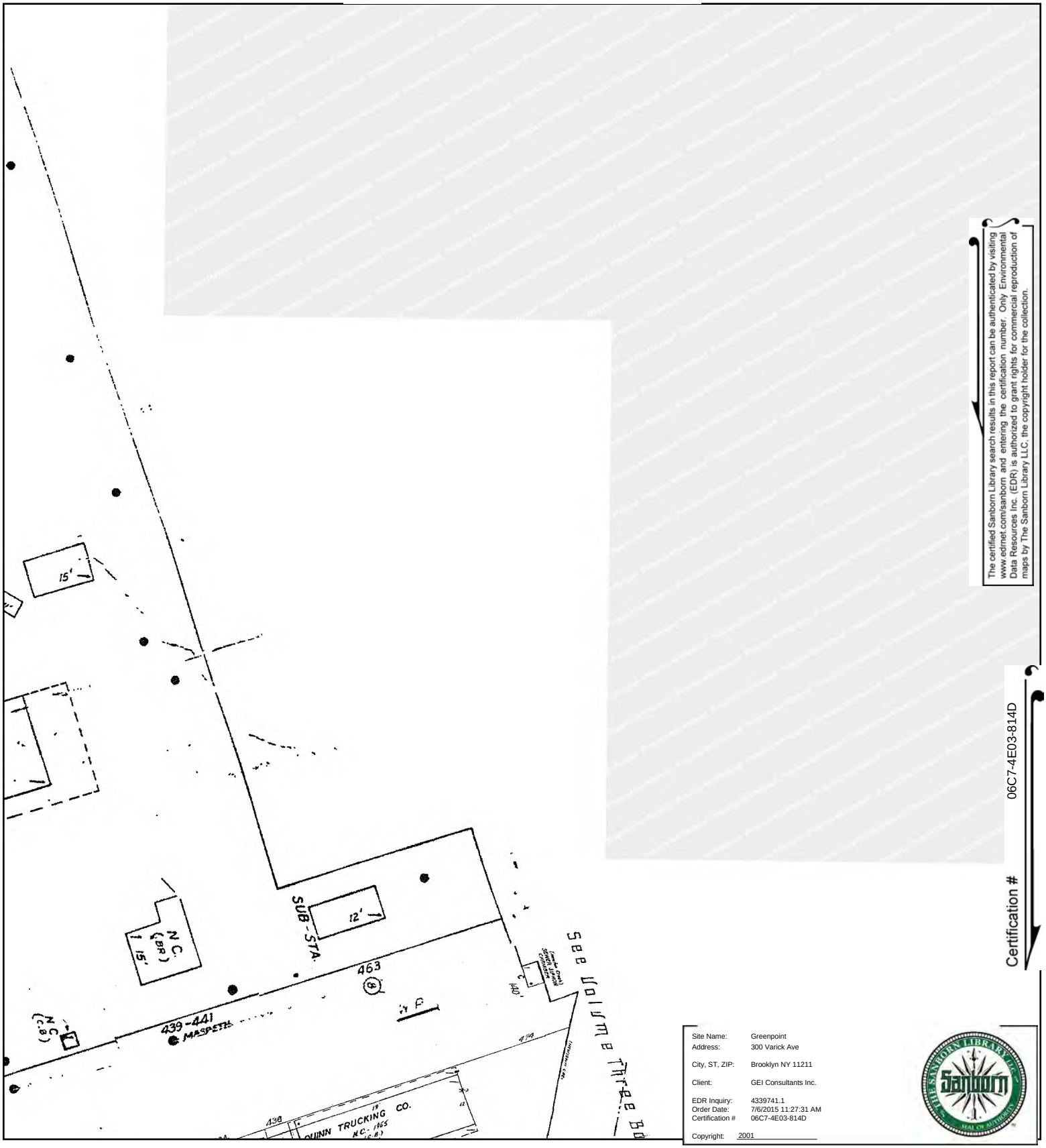
2001 Certified Sanborn Map



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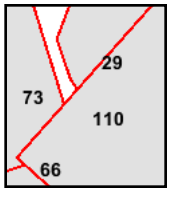

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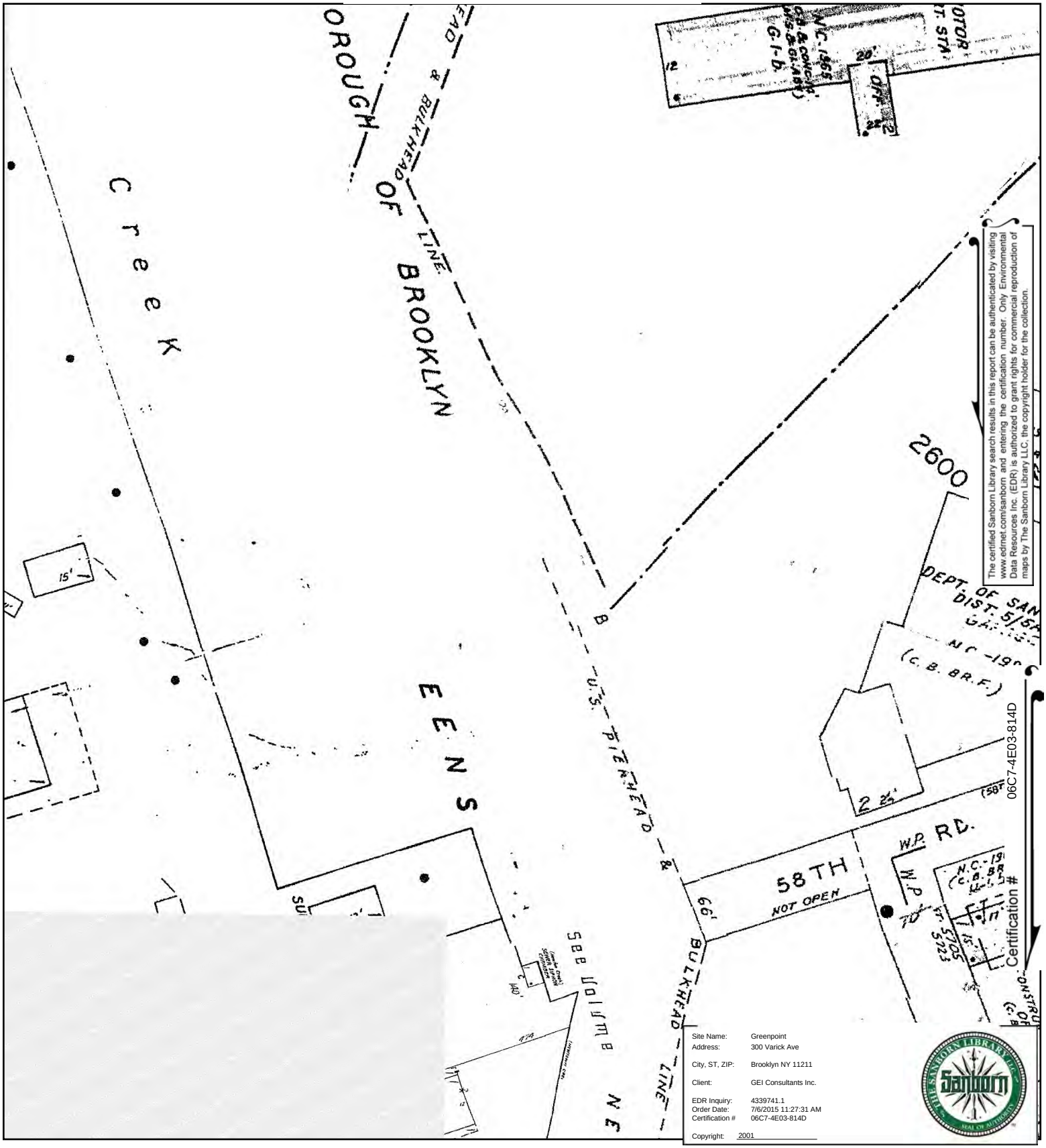

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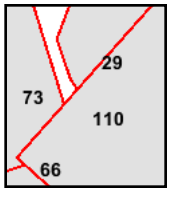

Volume 3, Sheet 29
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Volume 9, Sheet 73

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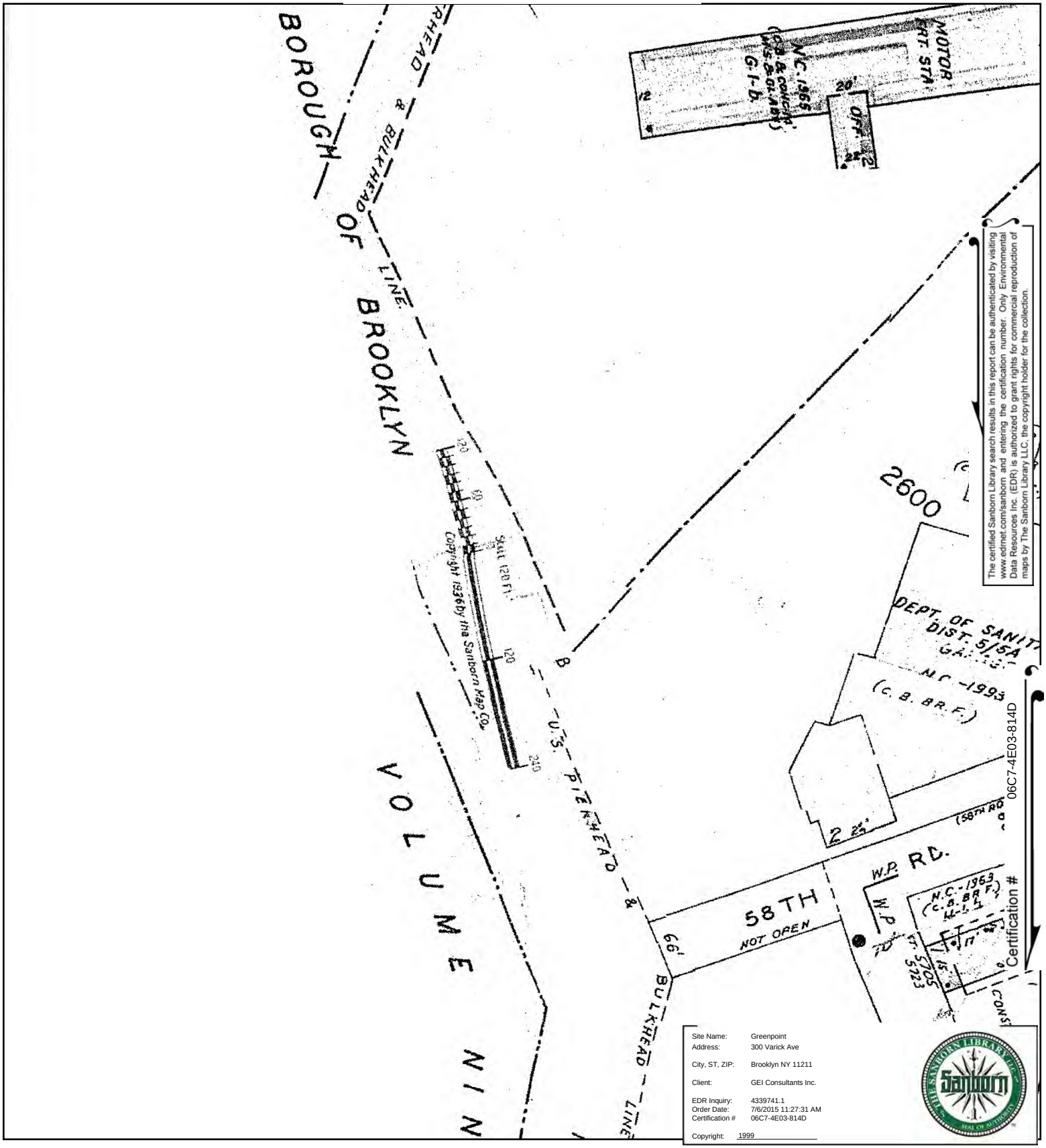

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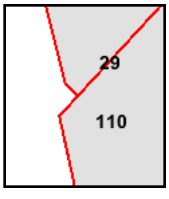

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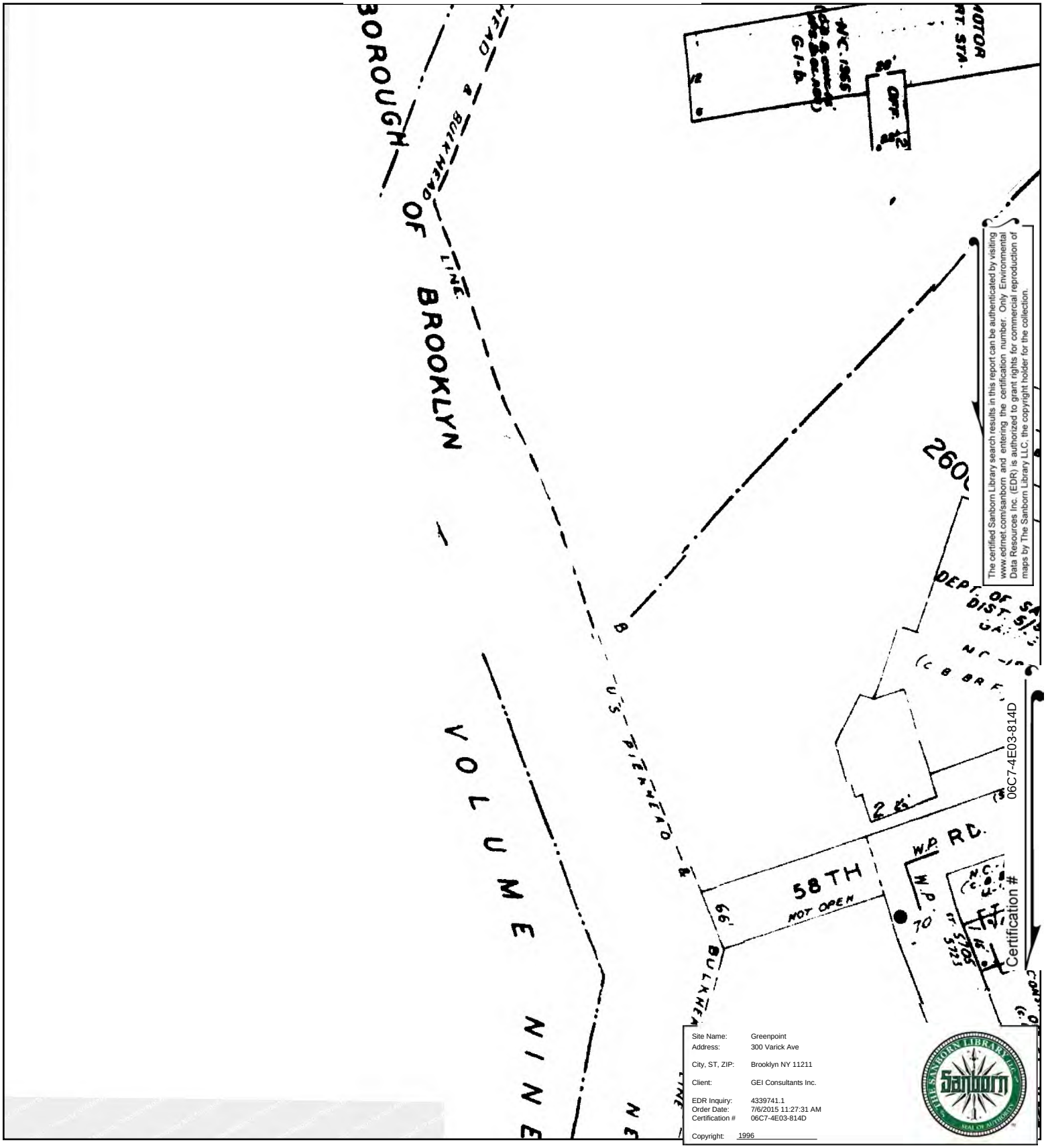

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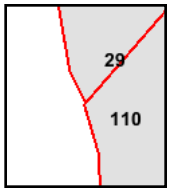

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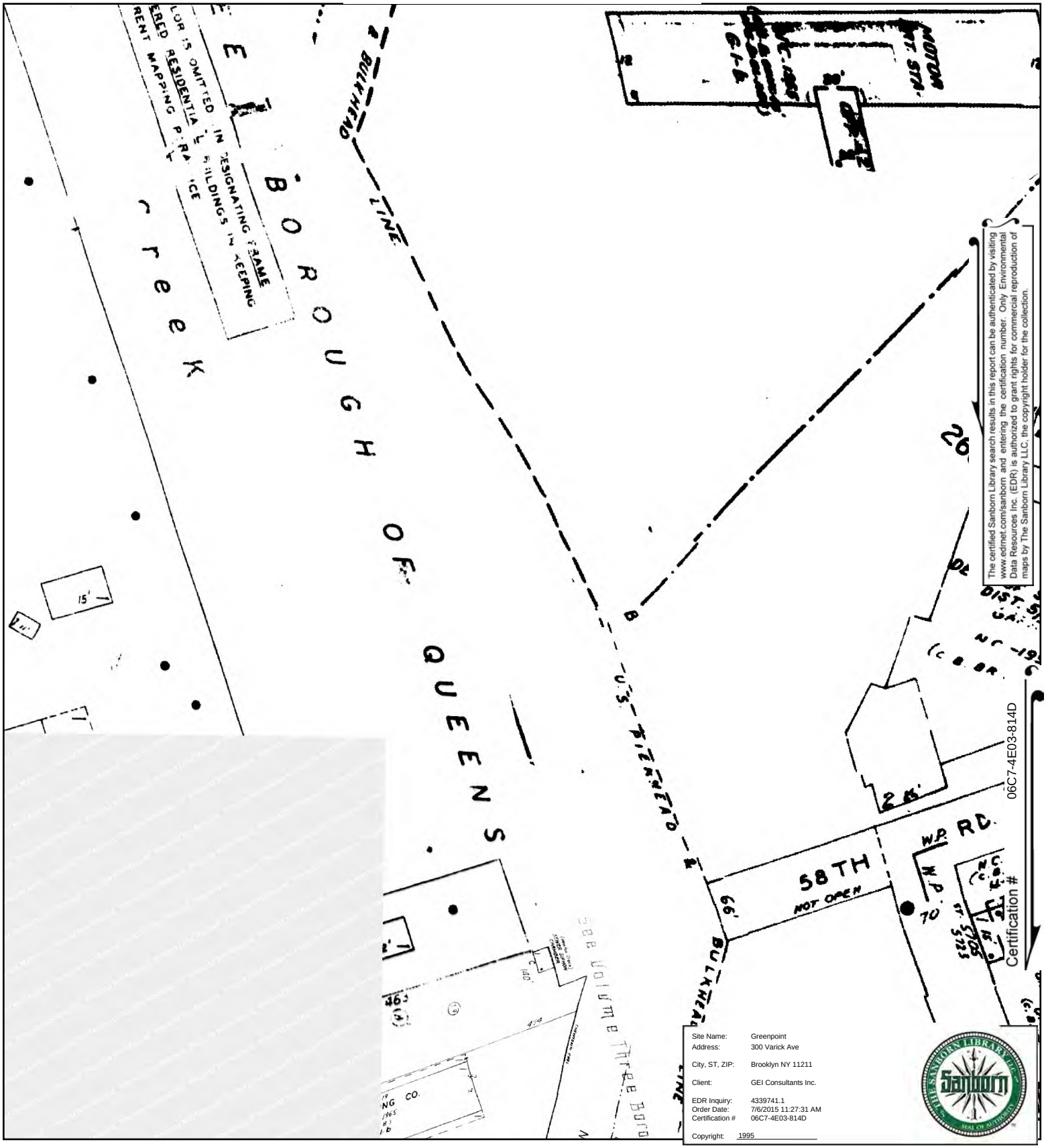

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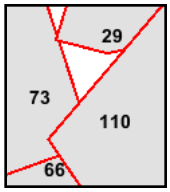

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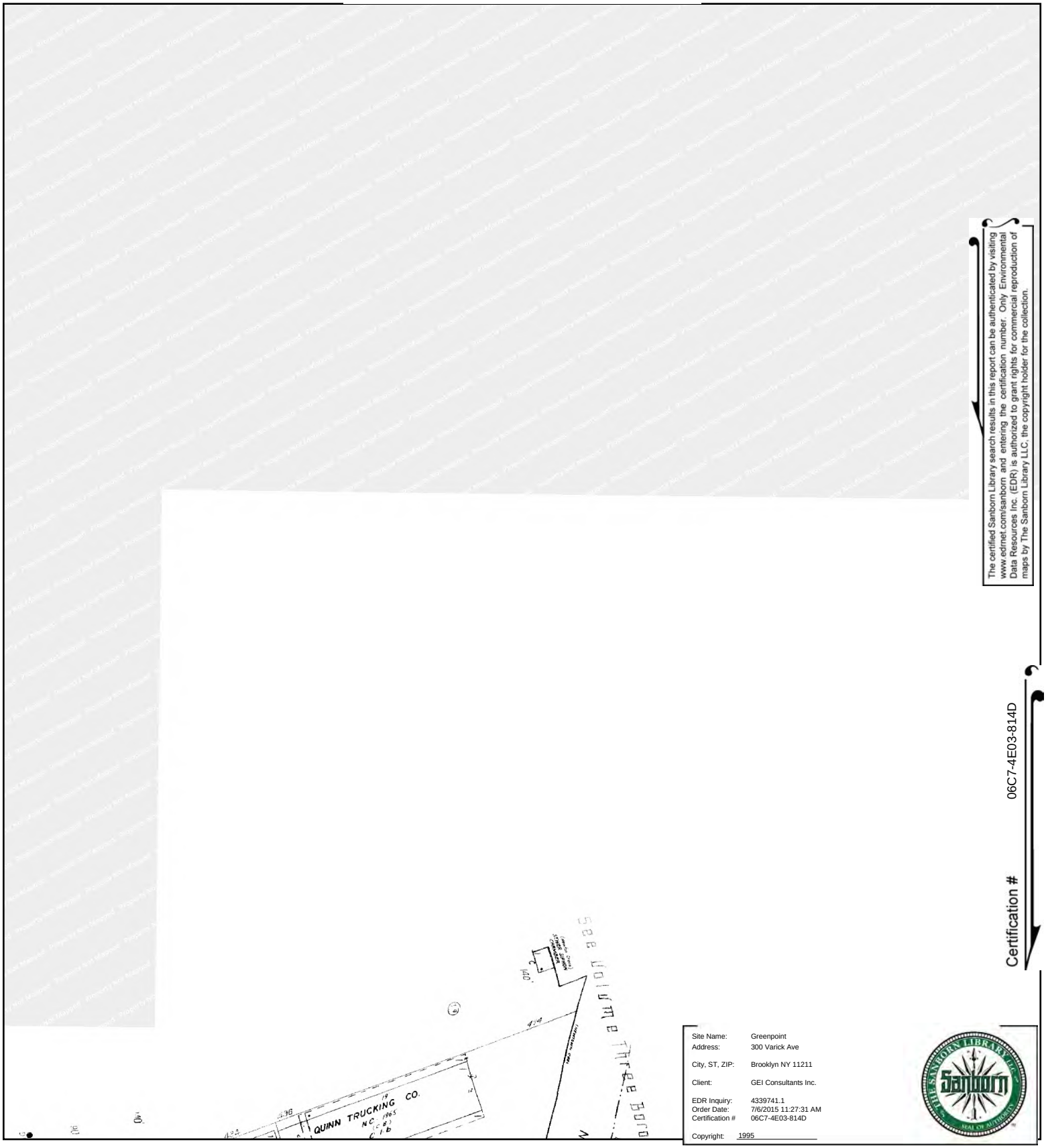

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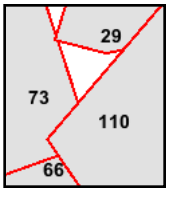

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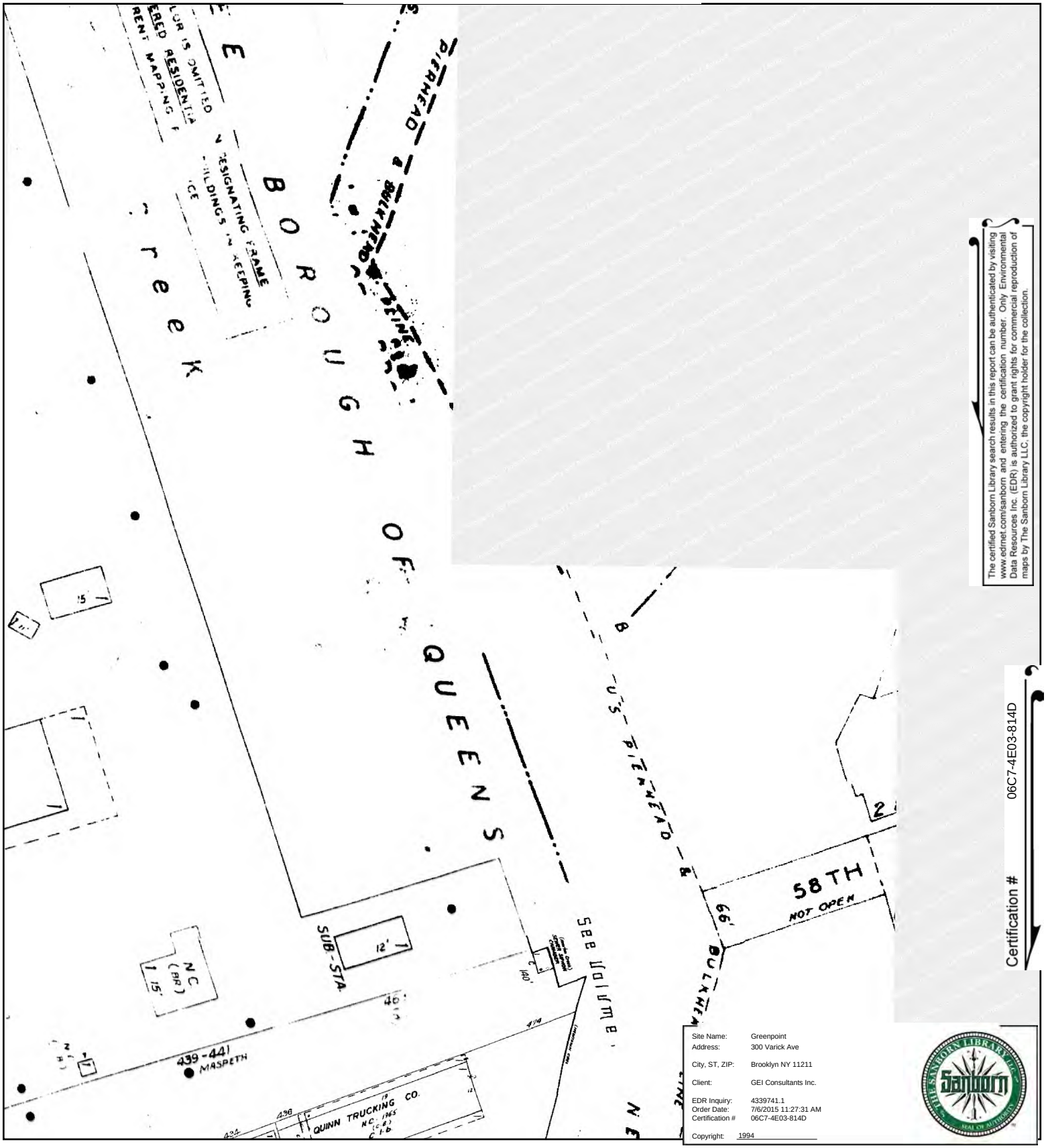

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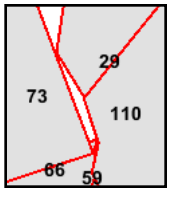

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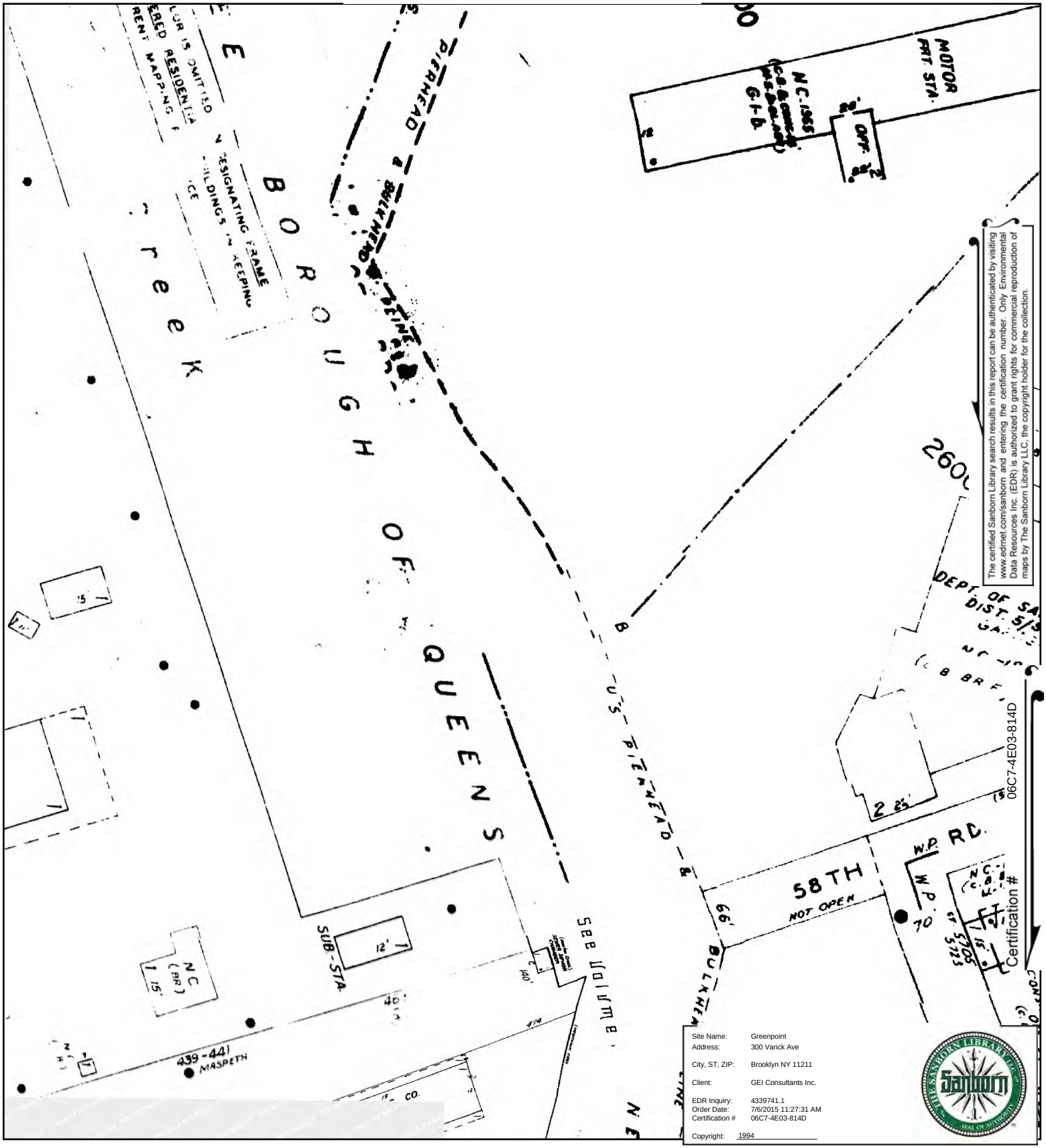

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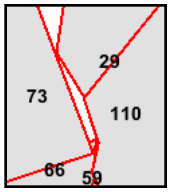

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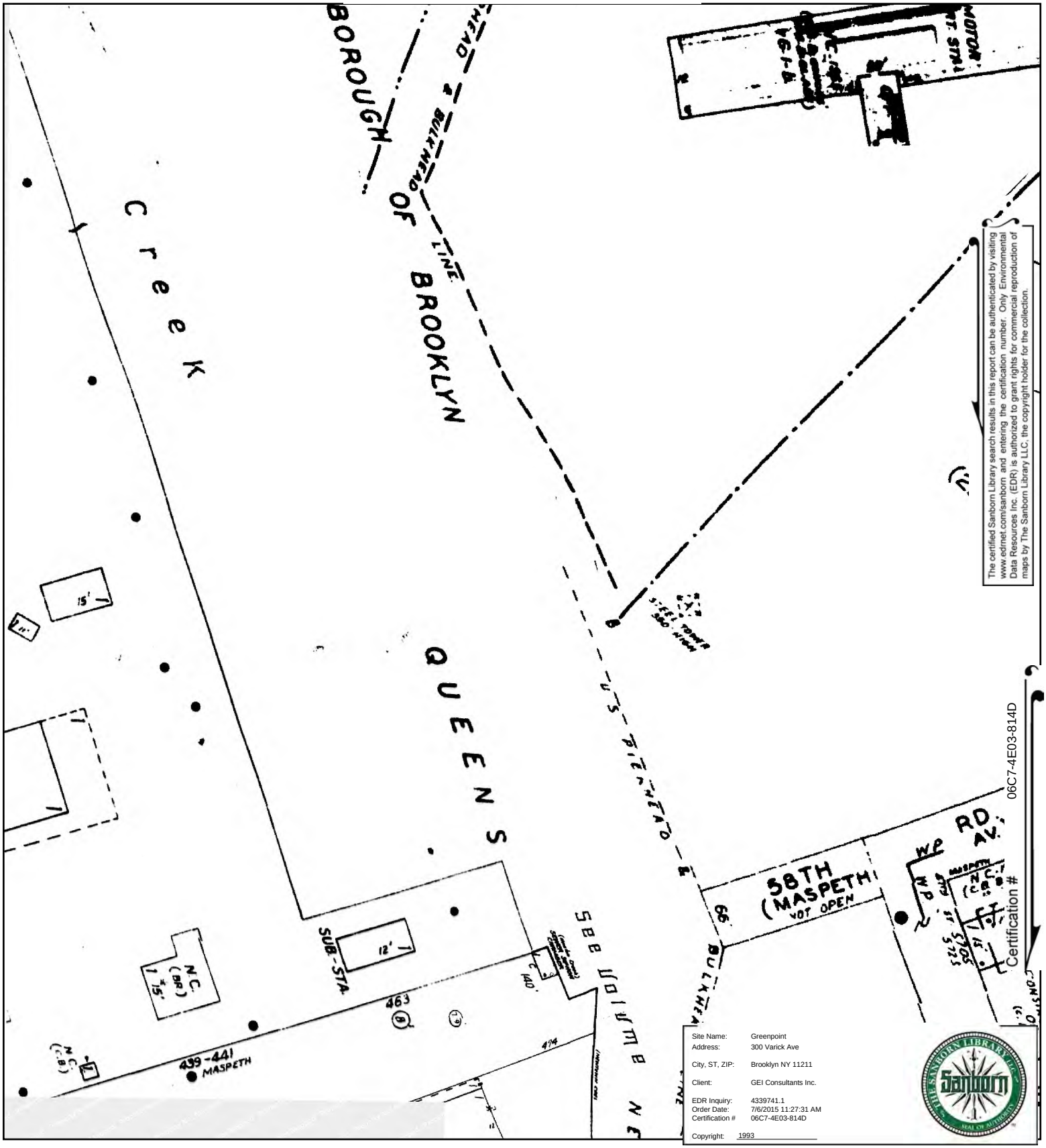

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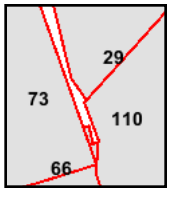

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Volume 3, Sheet 29

Volume 3, Sheet 110

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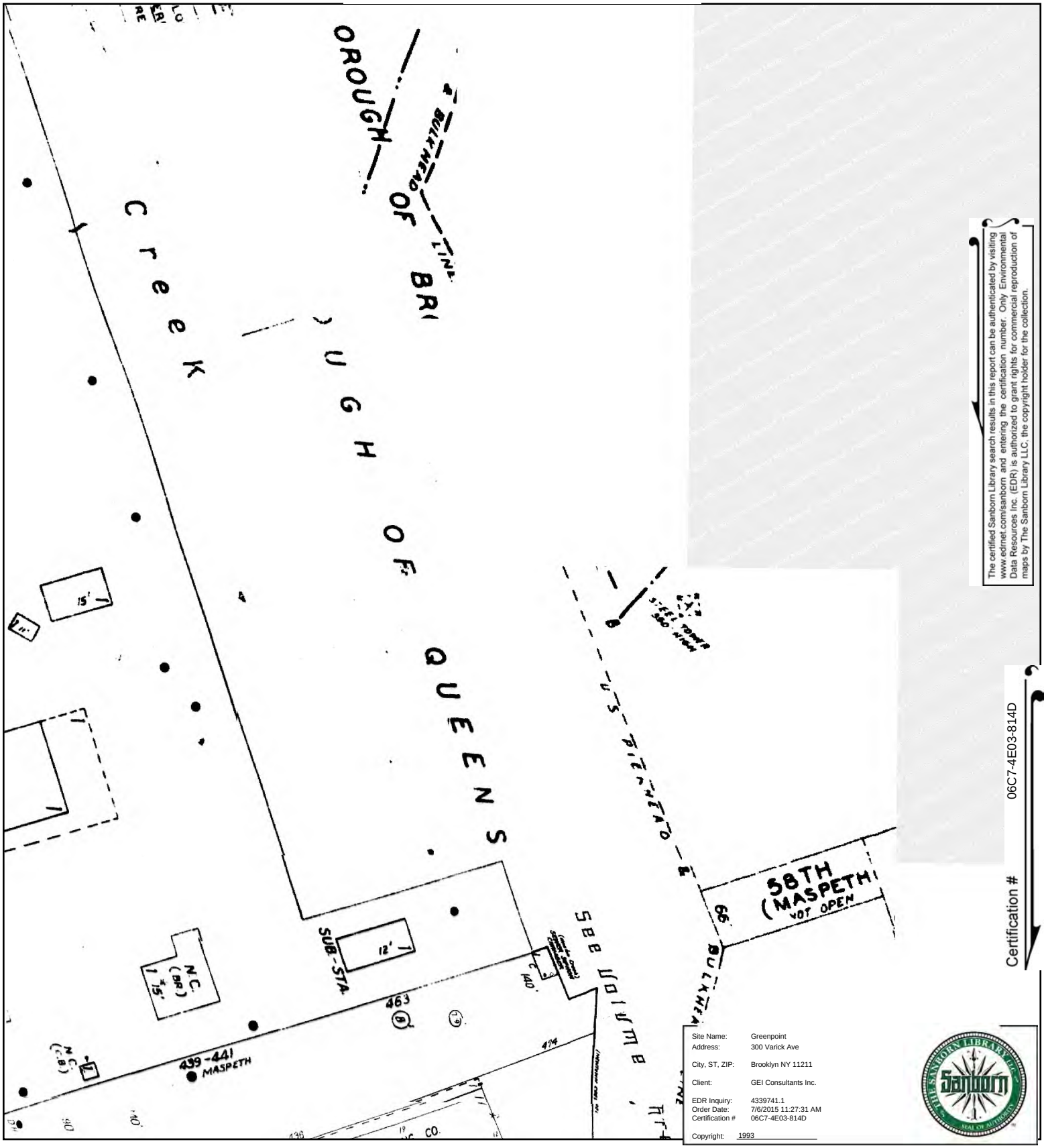

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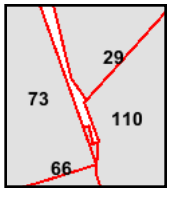

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Volume 9, Sheet 73
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Volume 3, Sheet 29

Volume 3, Sheet 110

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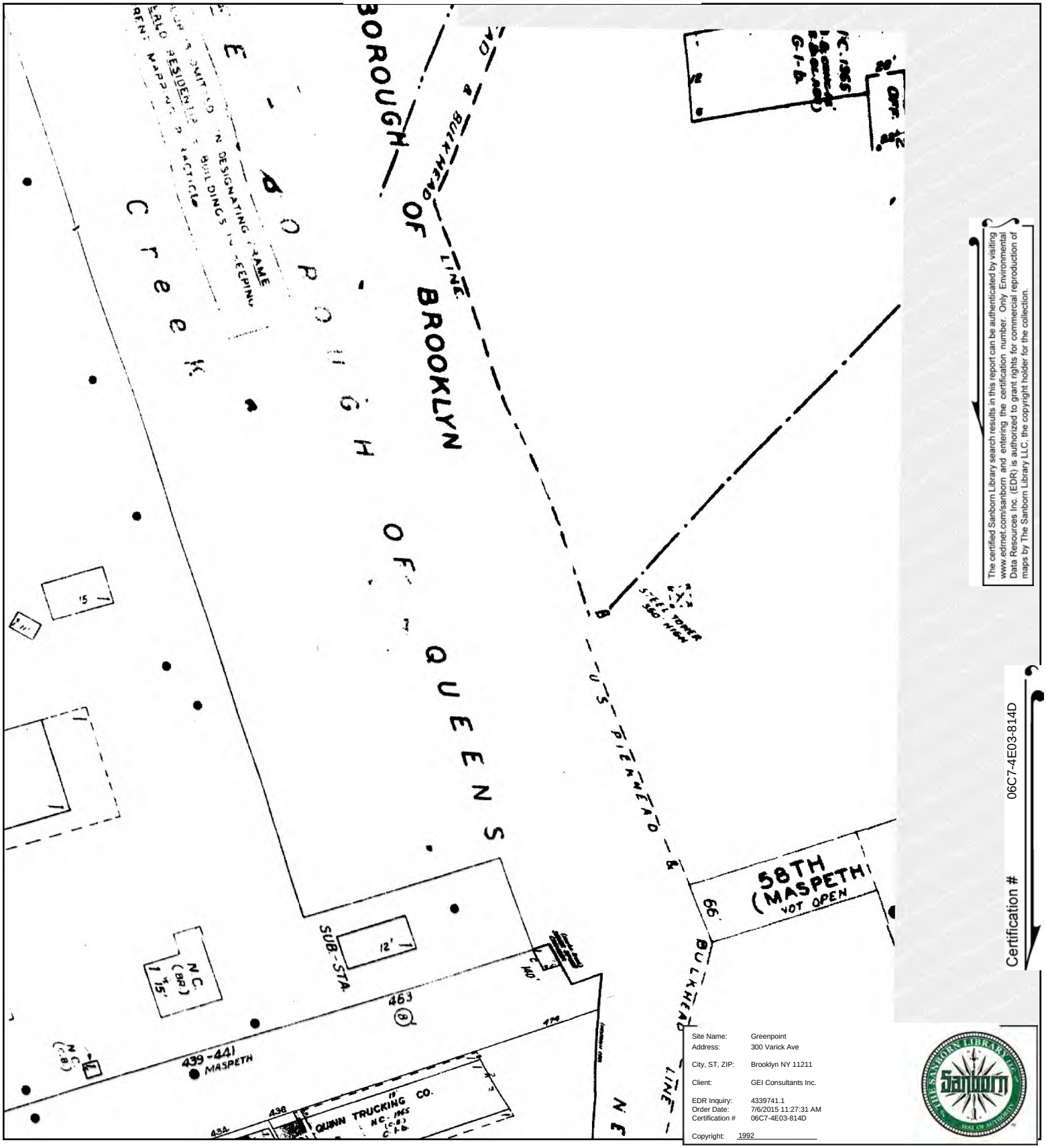

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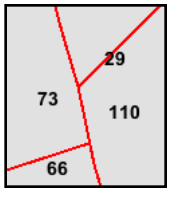

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Volume 9, Sheet 73

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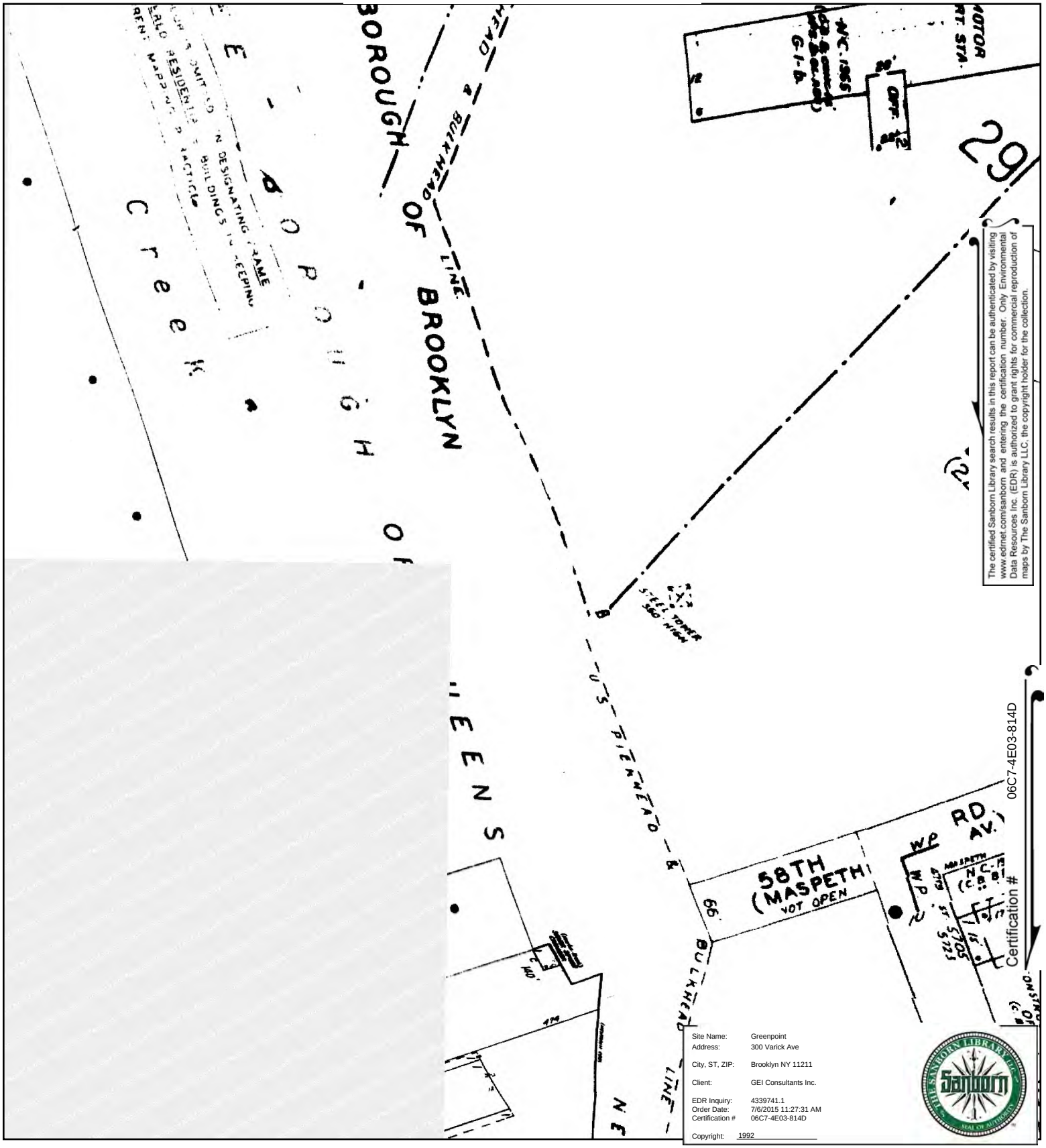

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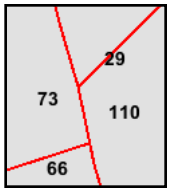

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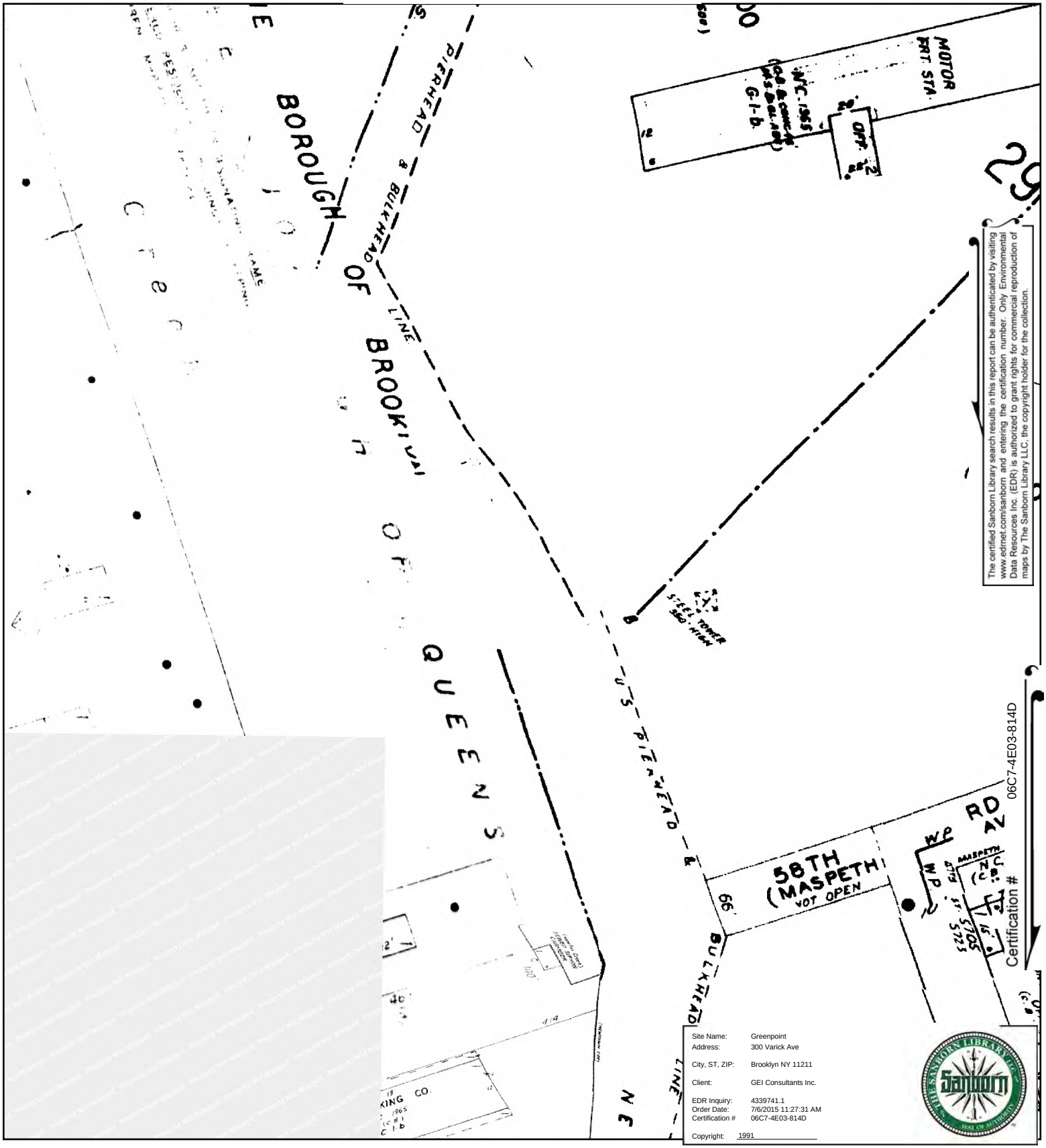

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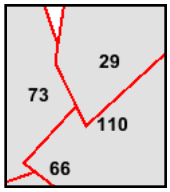

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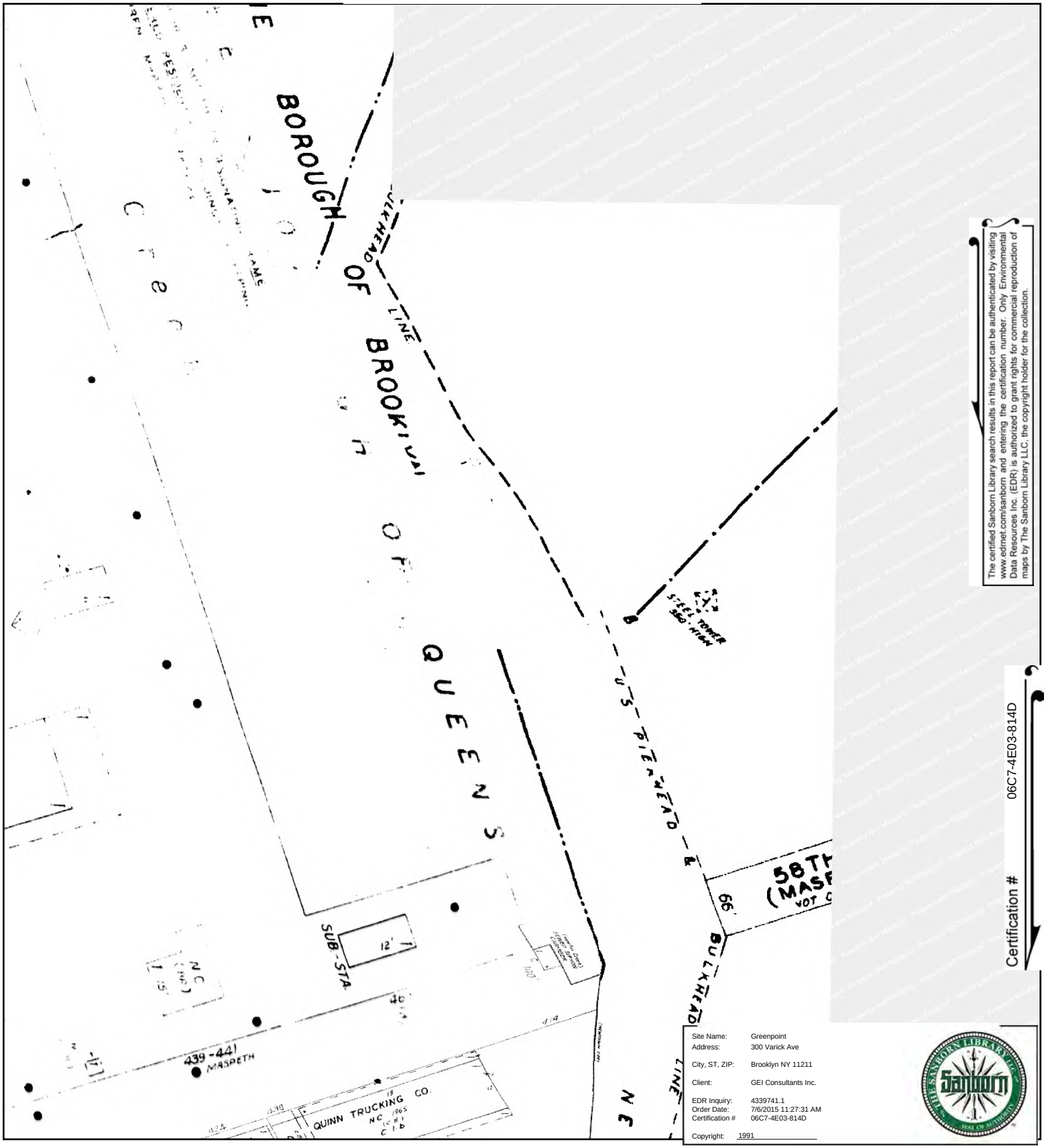

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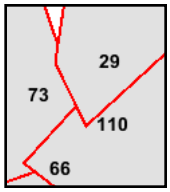

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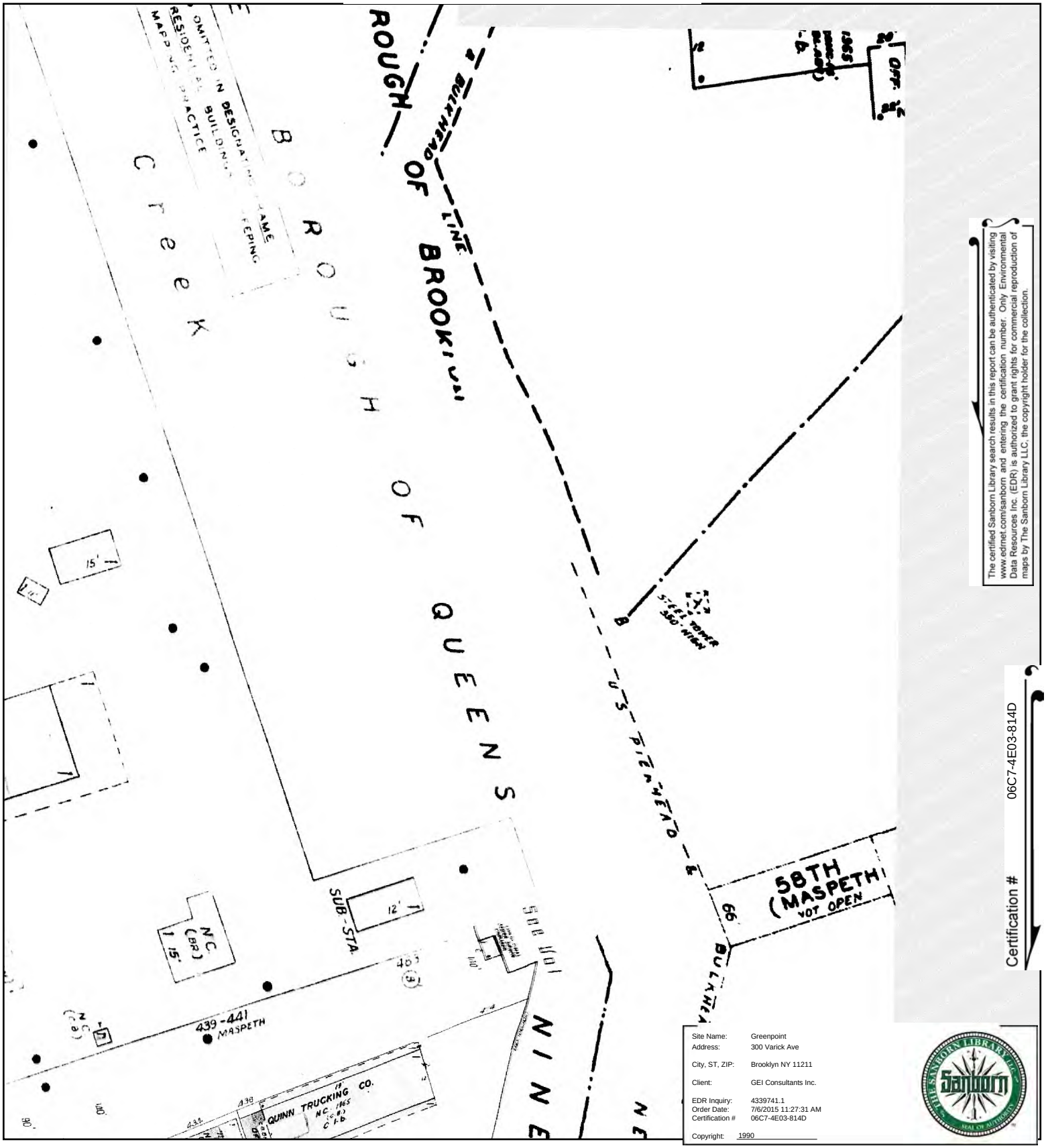

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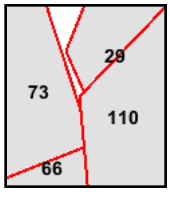

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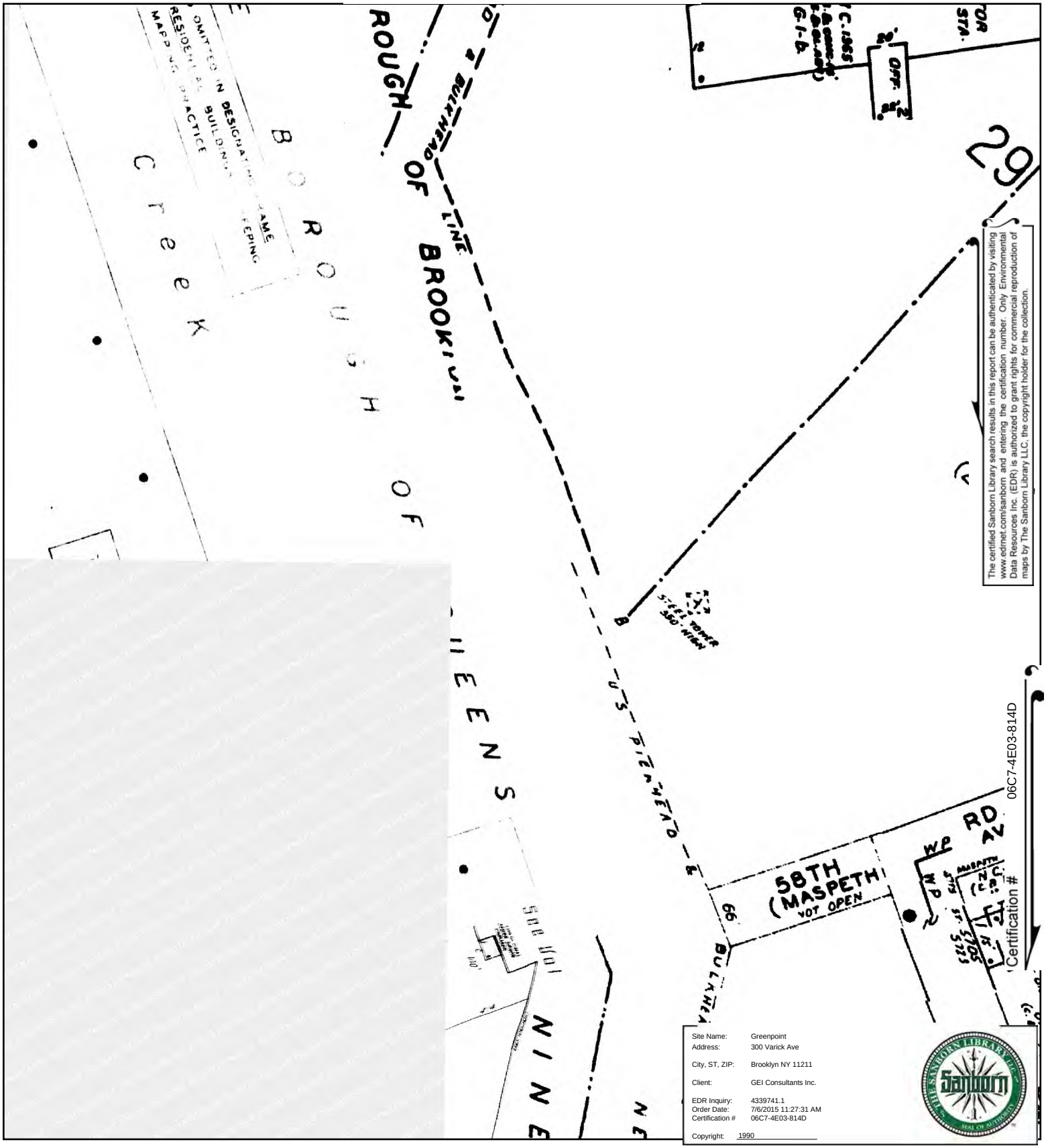

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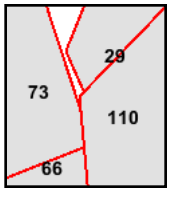

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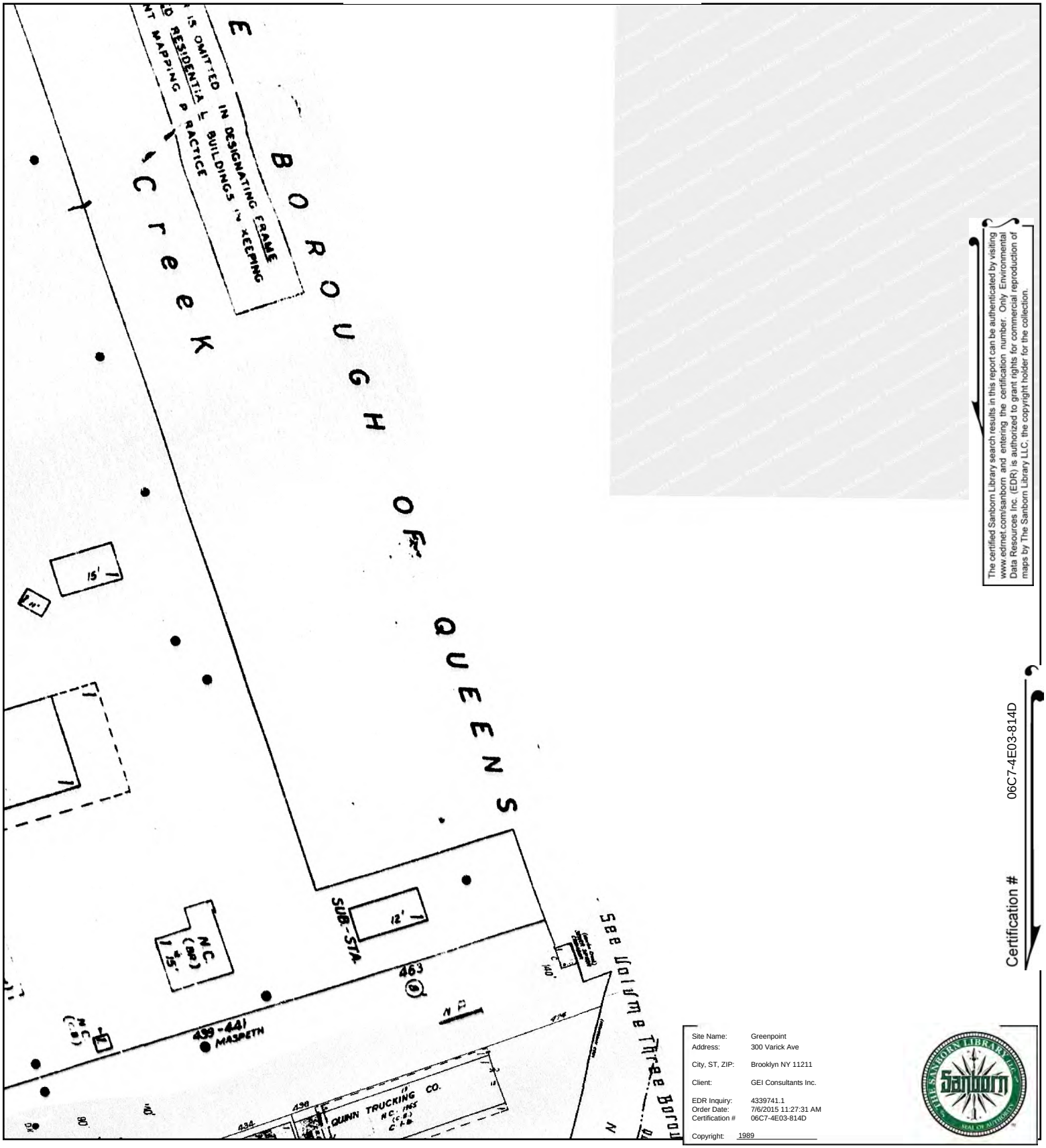

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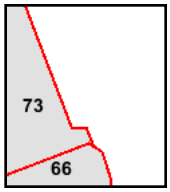

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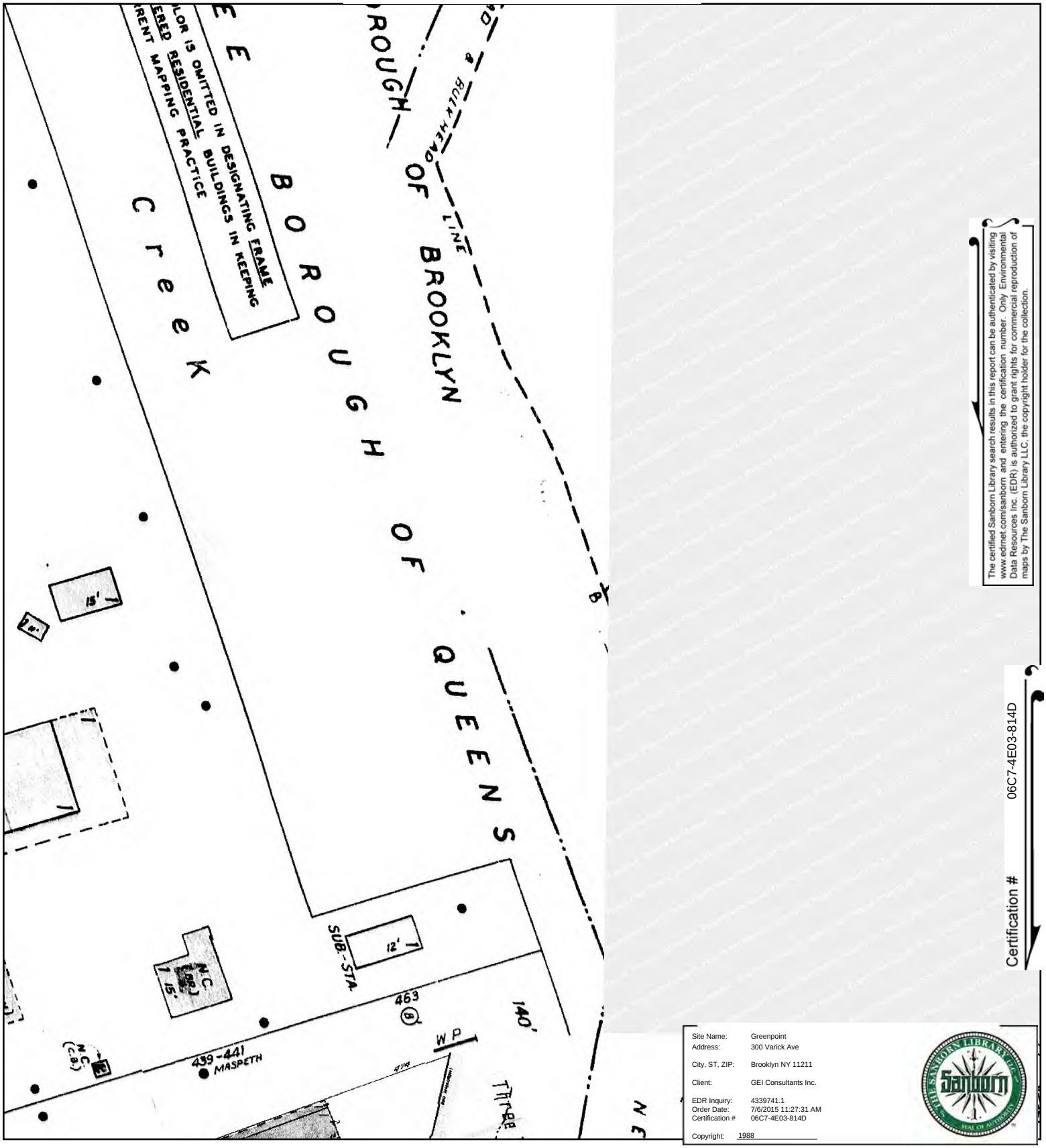

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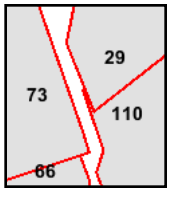

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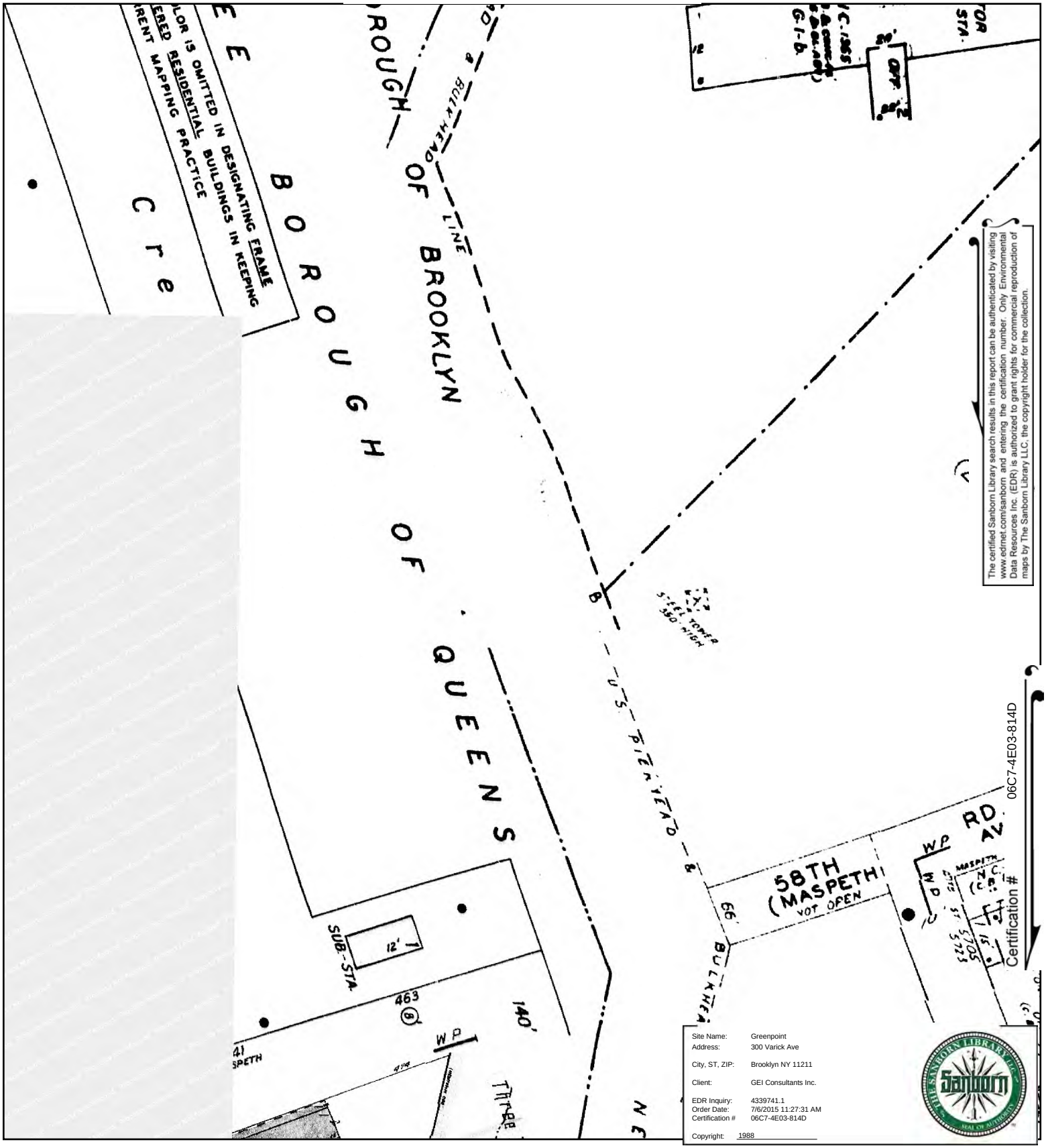

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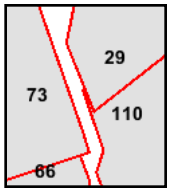

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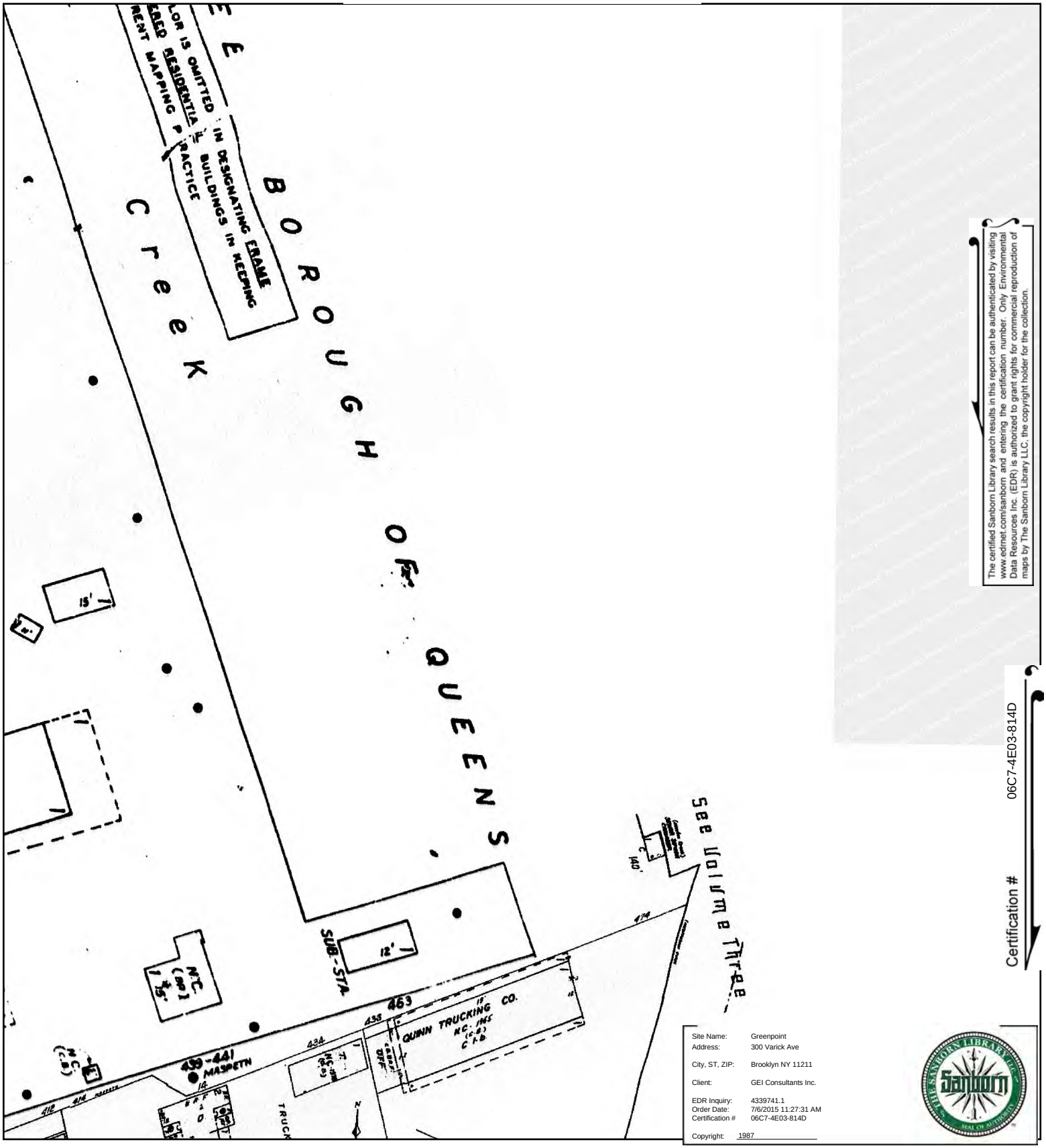

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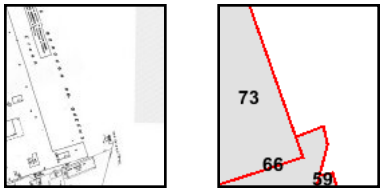

Volume 9, Sheet 66
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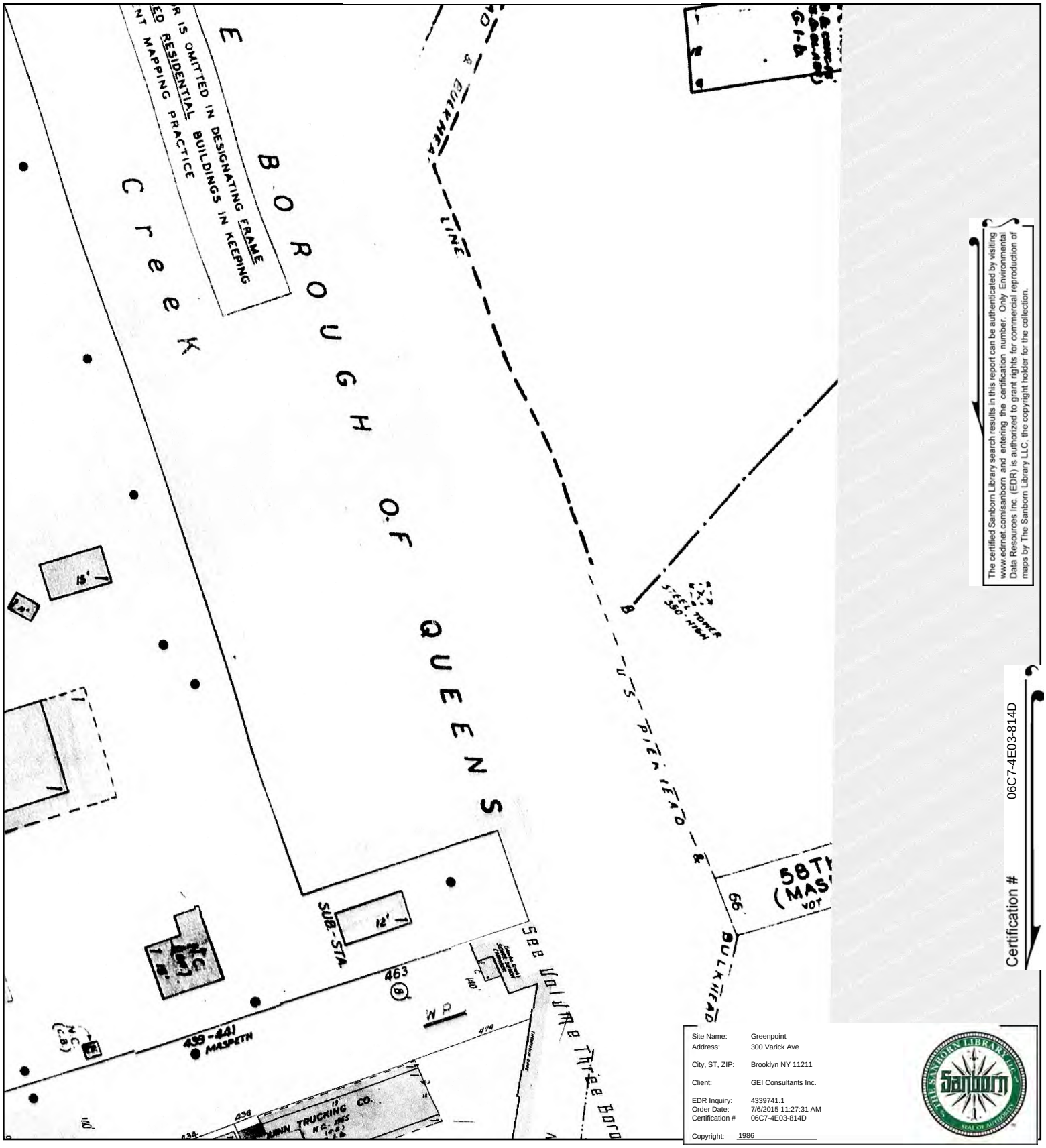
1986 Certified Sanborn Map



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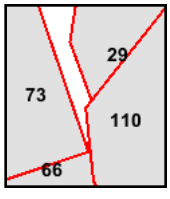

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Volume 3, Sheet 29

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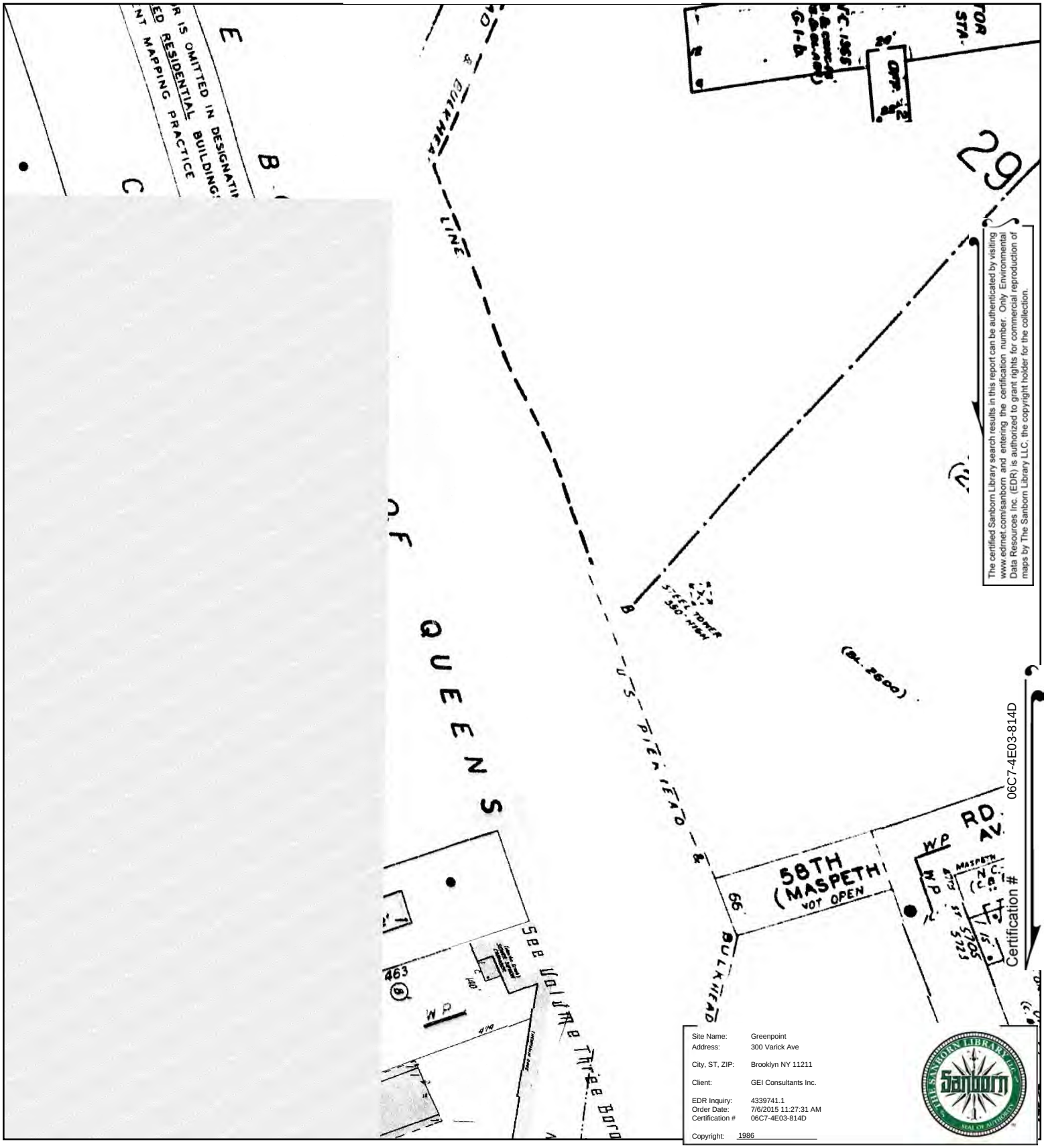

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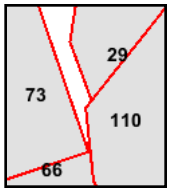

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Volume 9, Sheet 73
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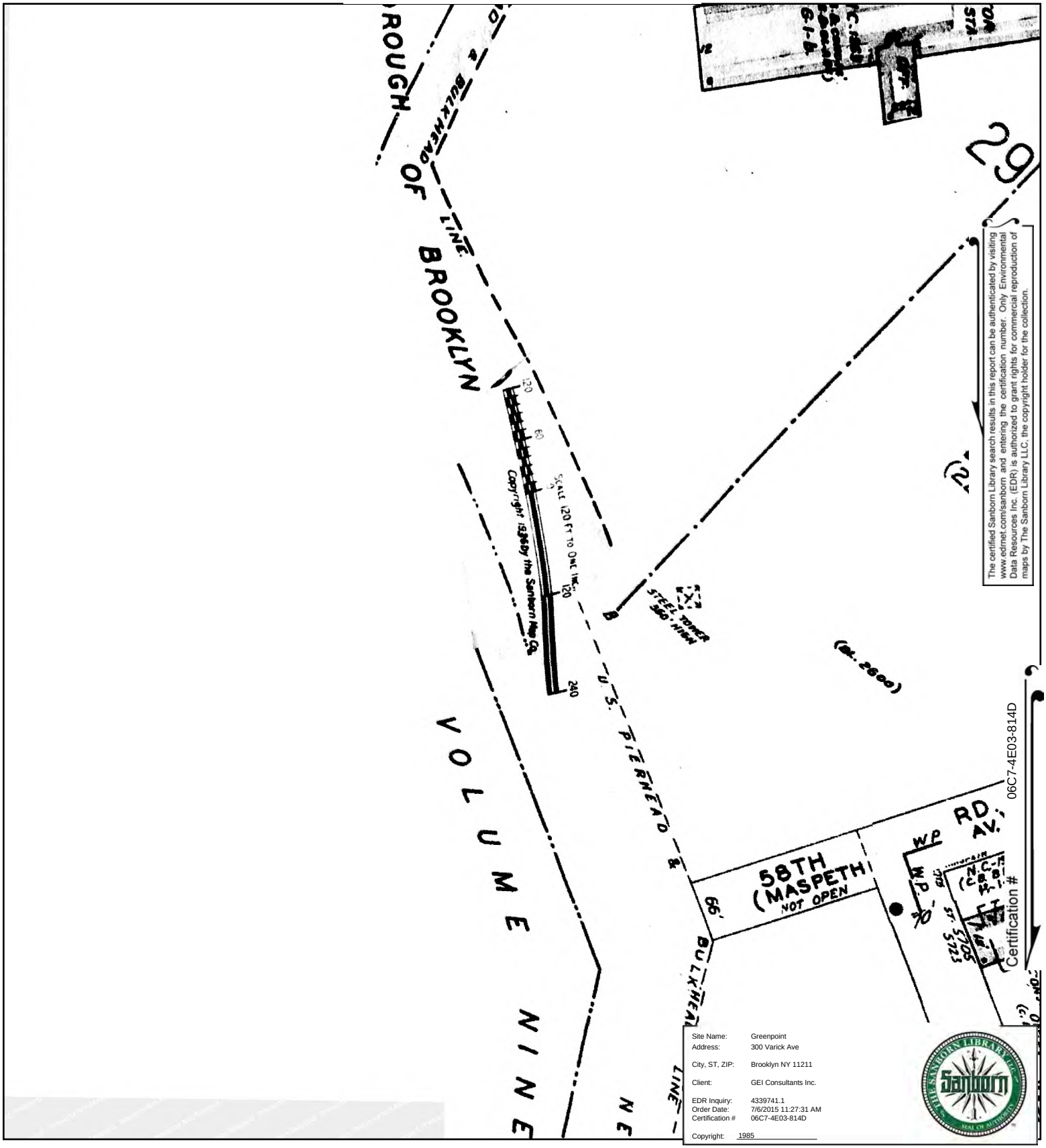
1985 Certified Sanborn Map



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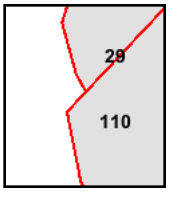

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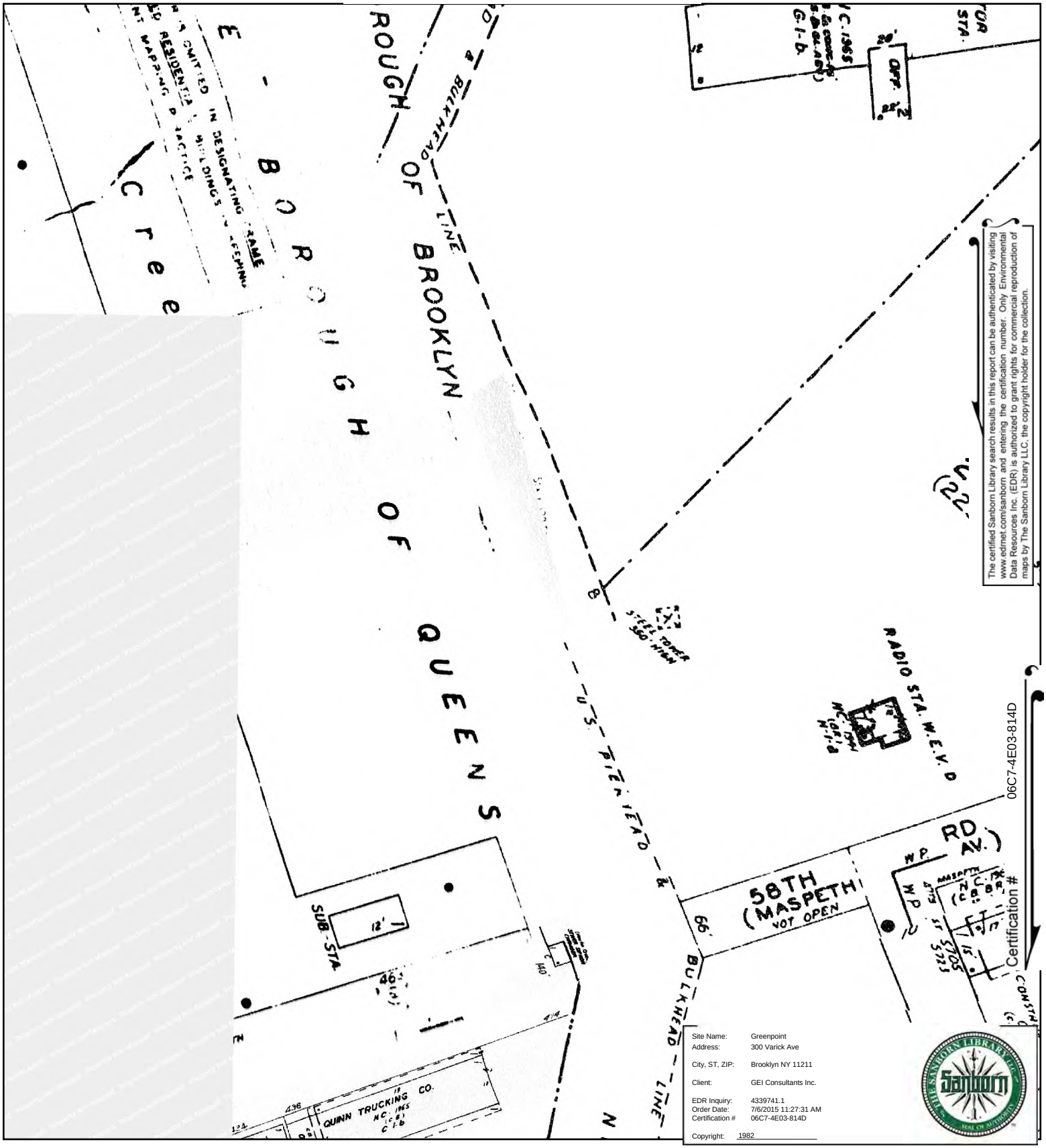
1982 Certified Sanborn Map



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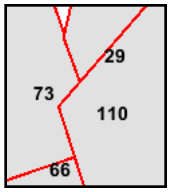

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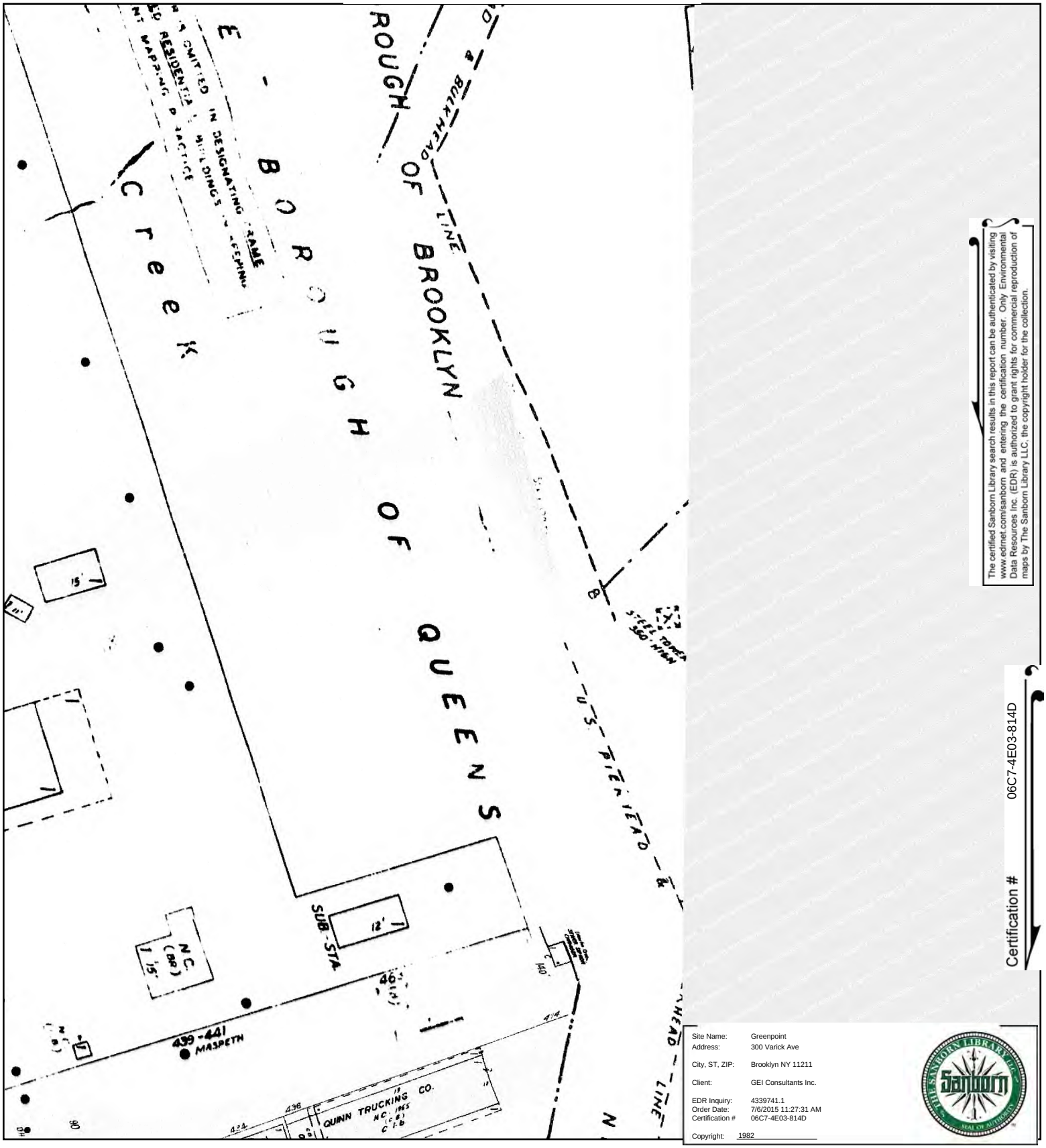

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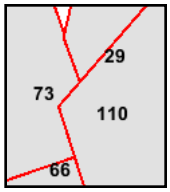

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Volume 9, Sheet 73

0 Feet 165 330 660

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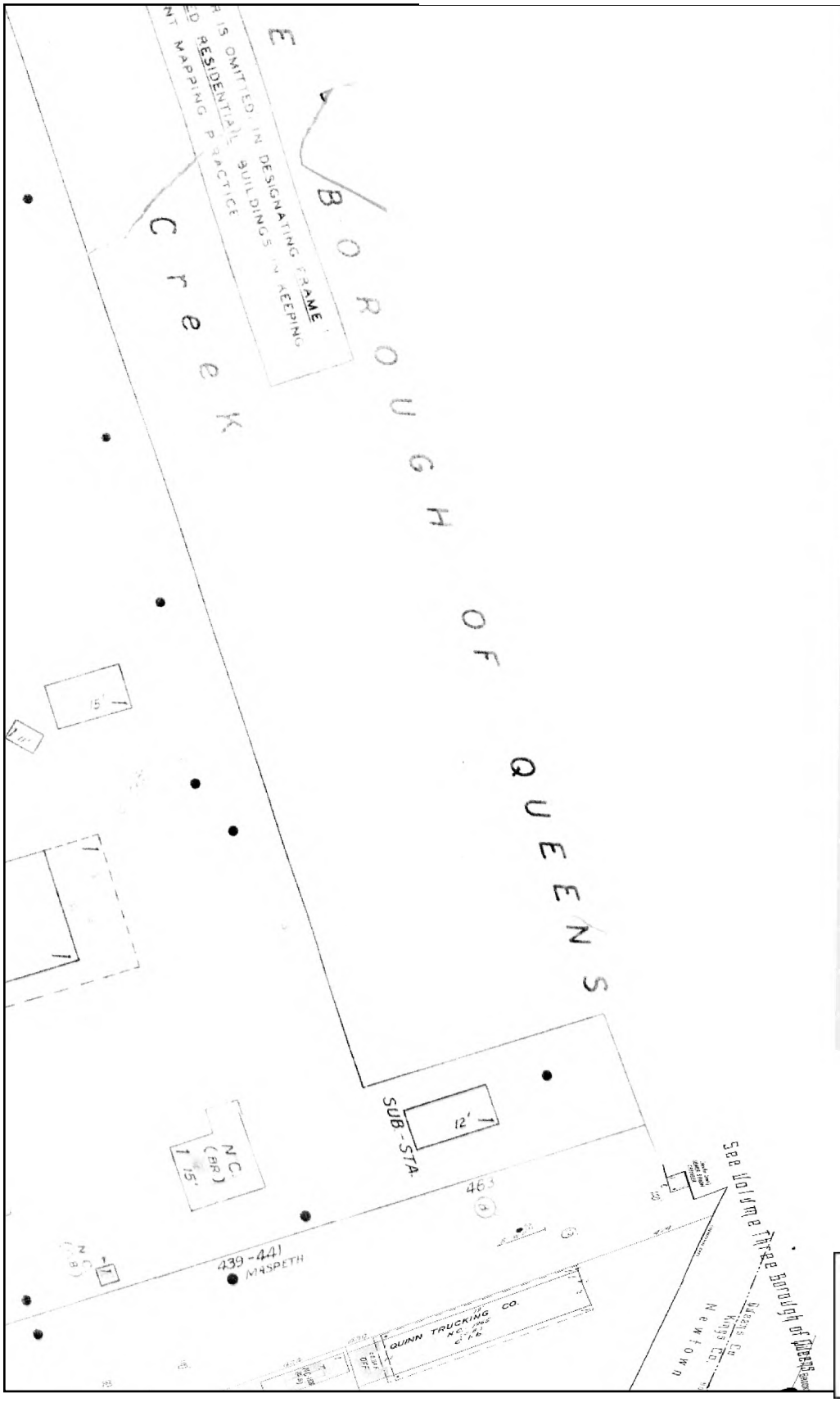
1981 Certified Sanborn Map



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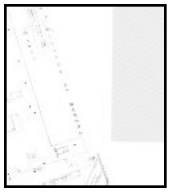

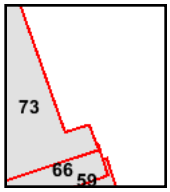

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Volume 9, Sheet 59
Volume 9, Sheet 66

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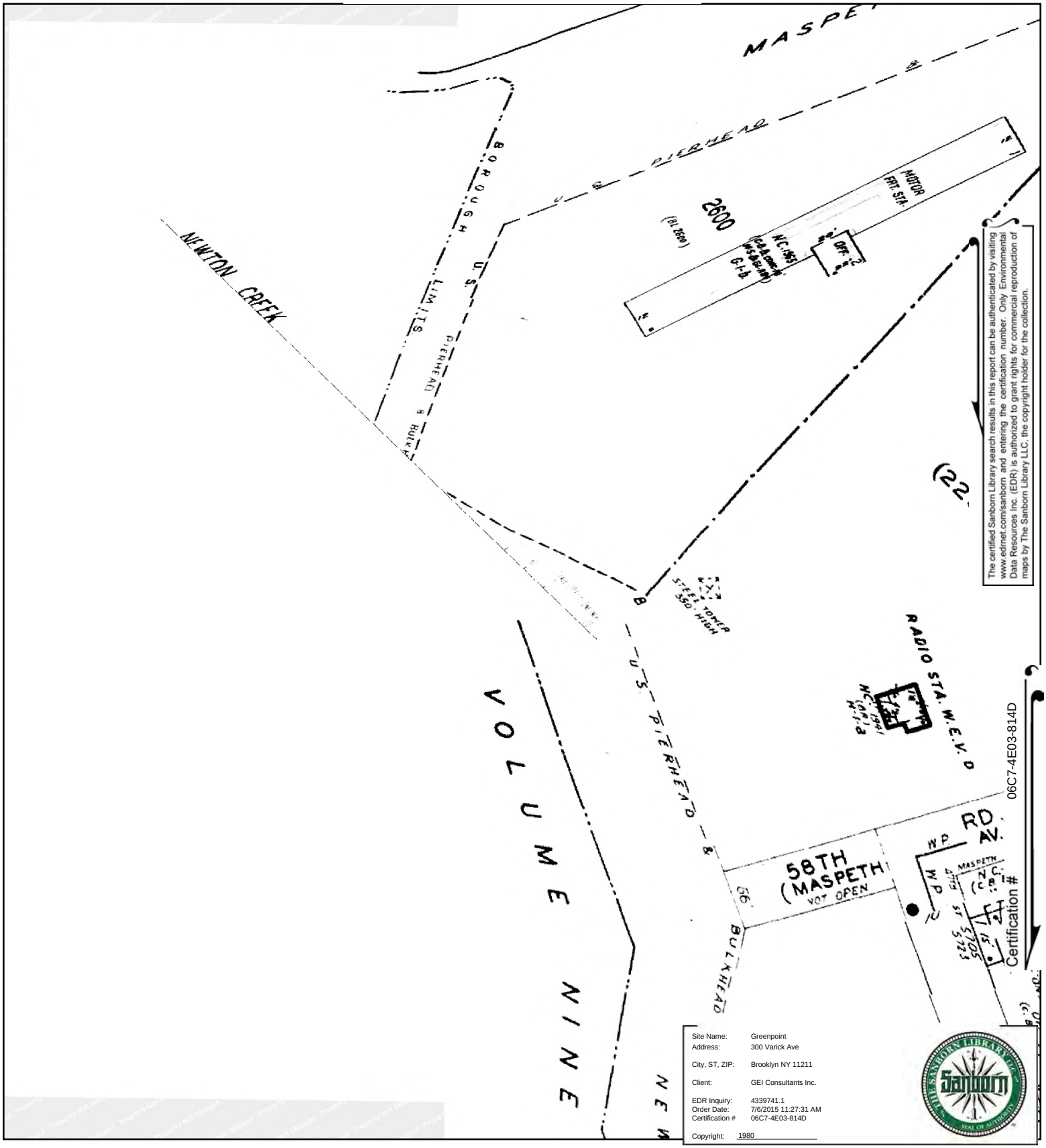

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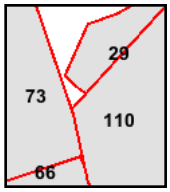

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Volume 9, Sheet 66
Volume 9, Sheet 73

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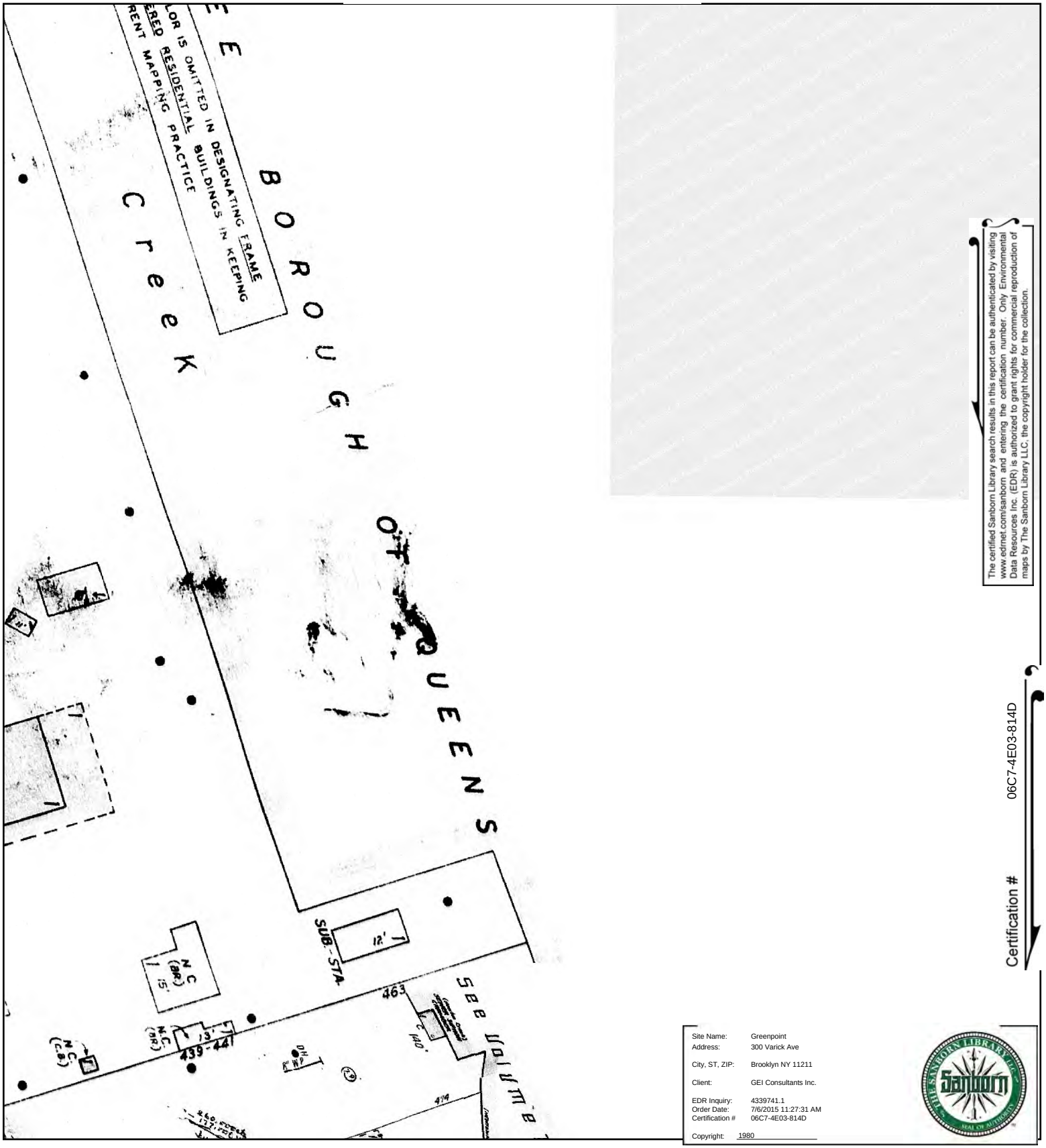

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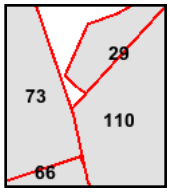

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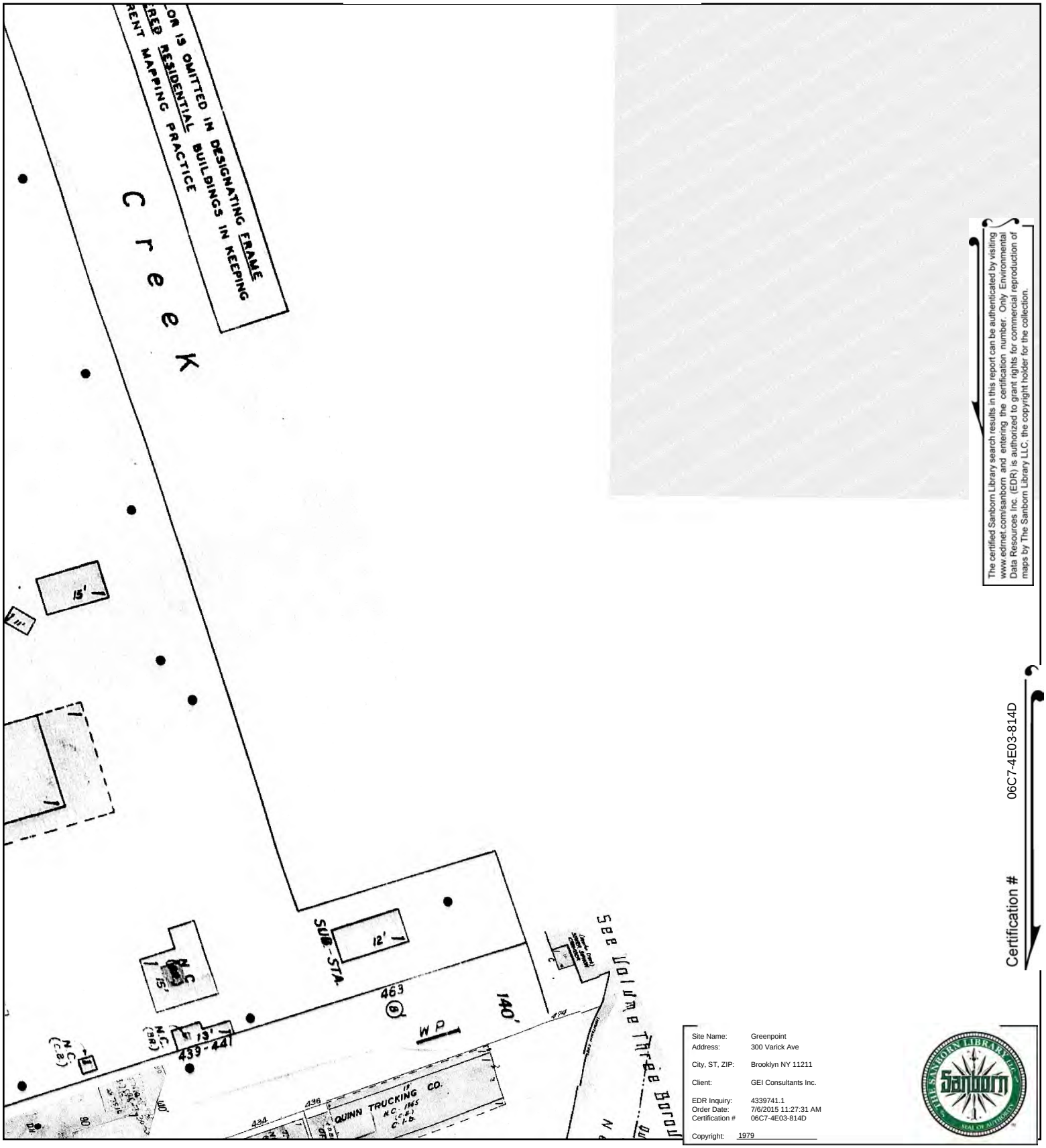

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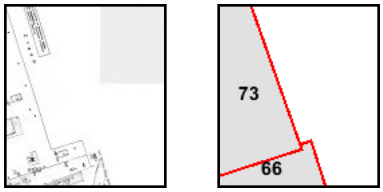

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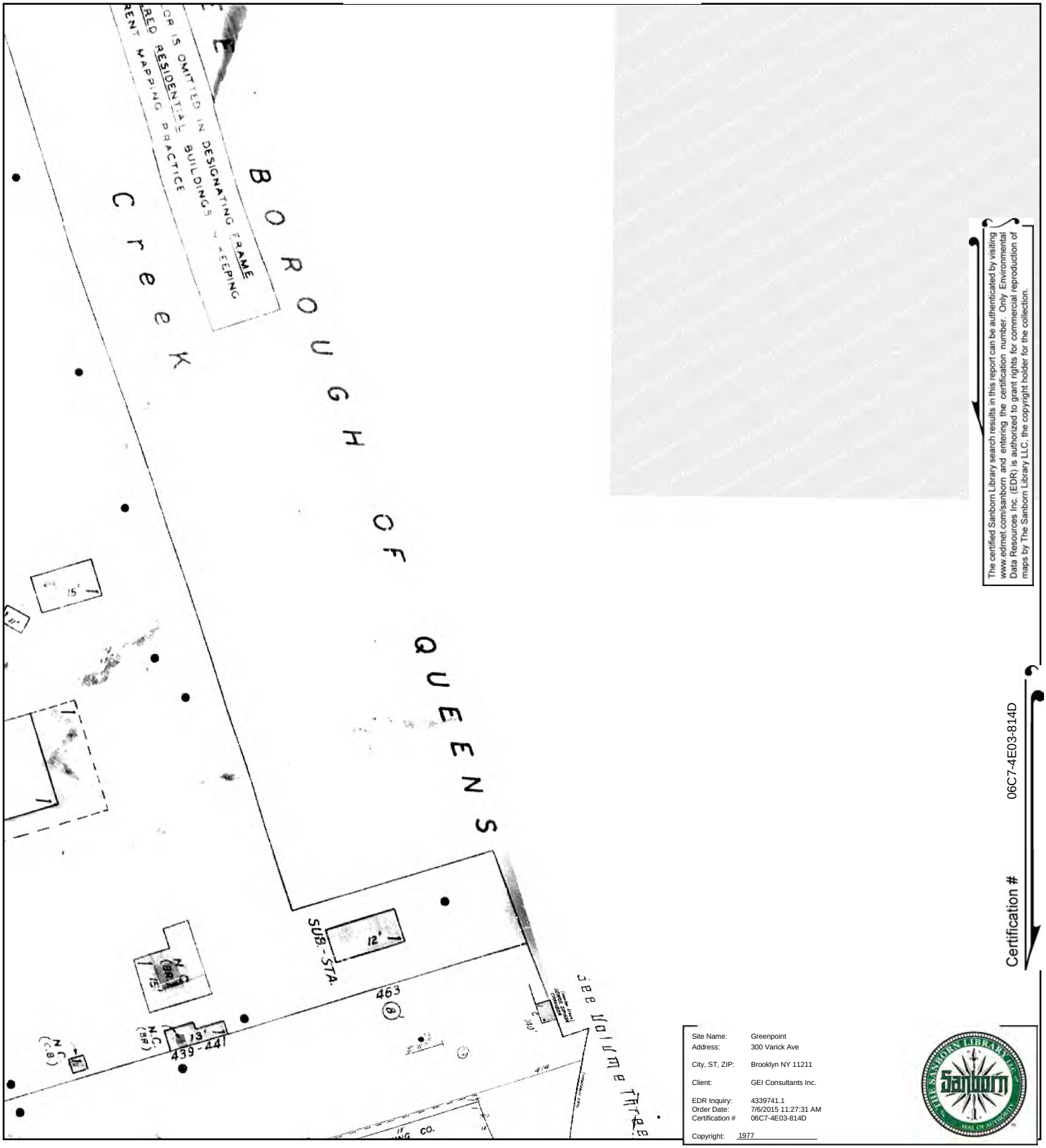
1977 Certified Sanborn Map



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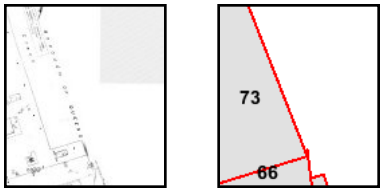

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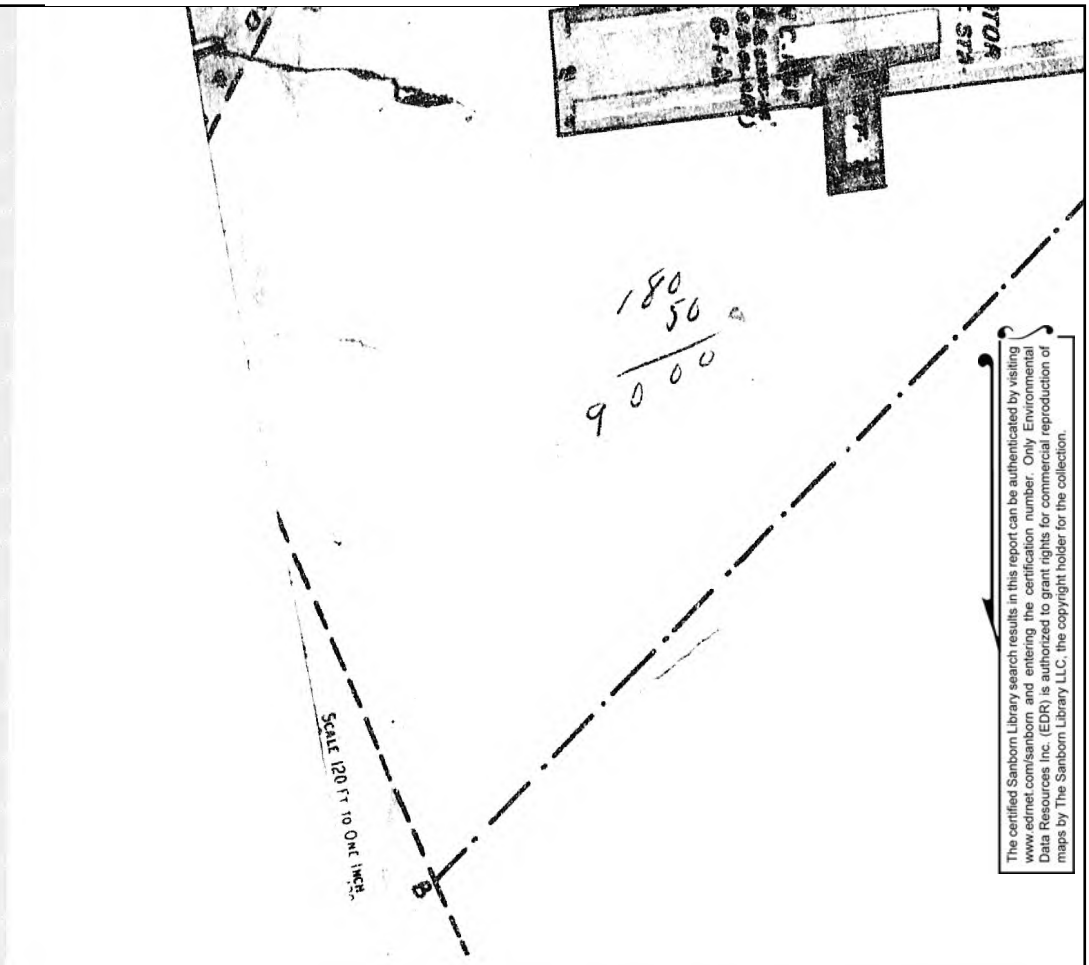
1971 Certified Sanborn Map



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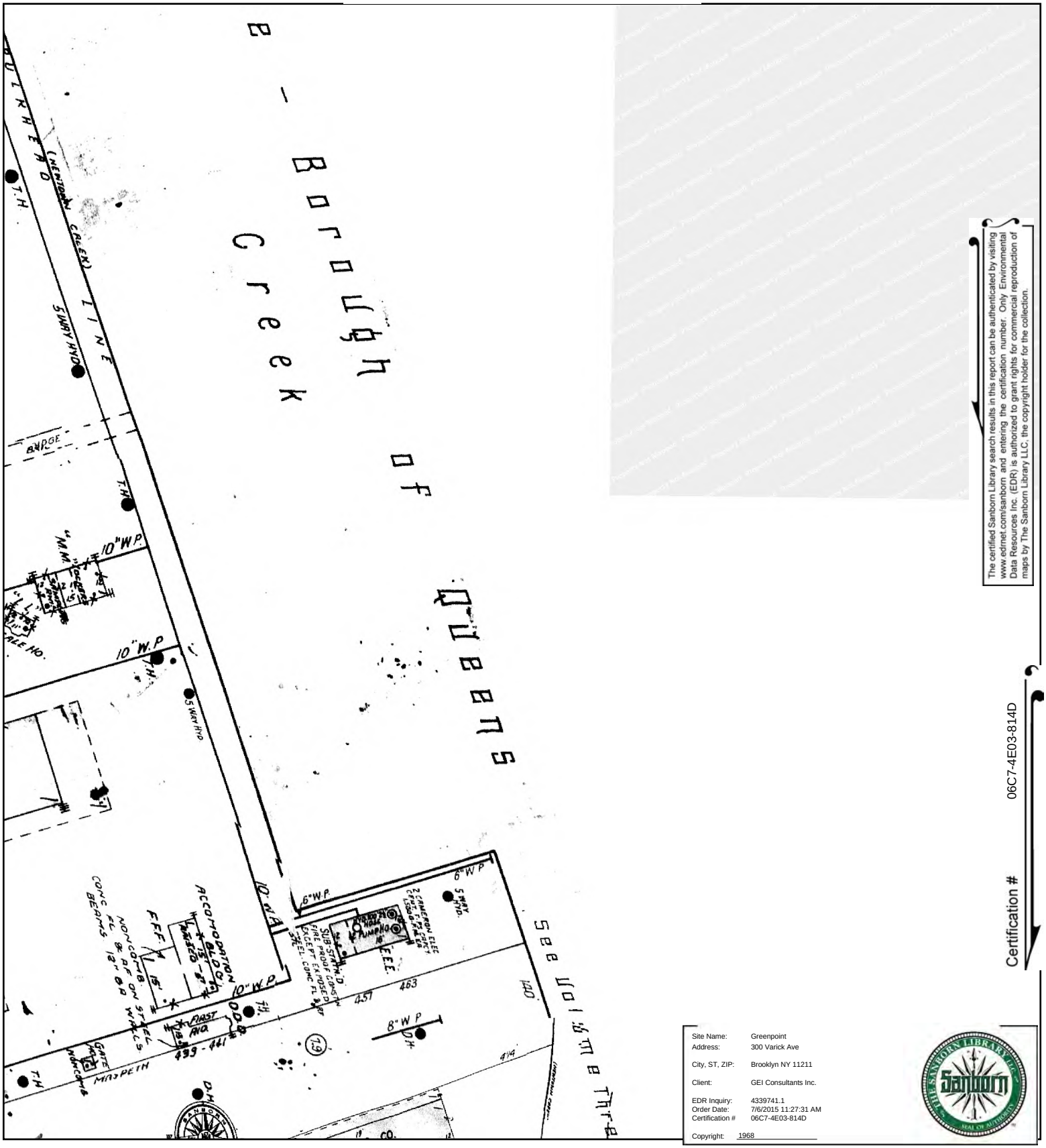

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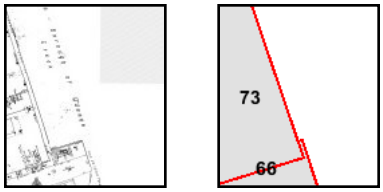

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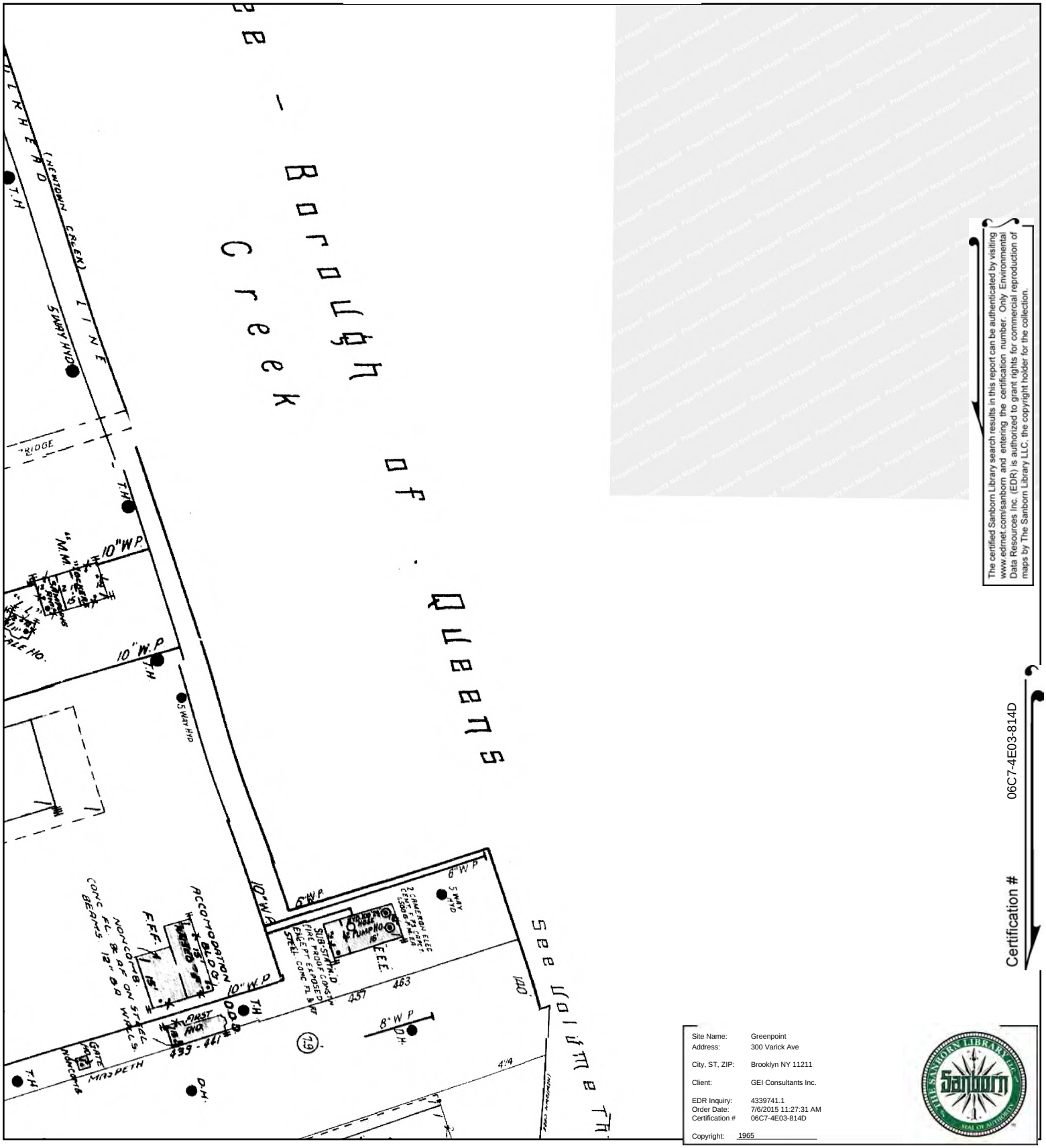
1965 Certified Sanborn Map



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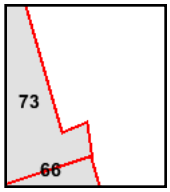

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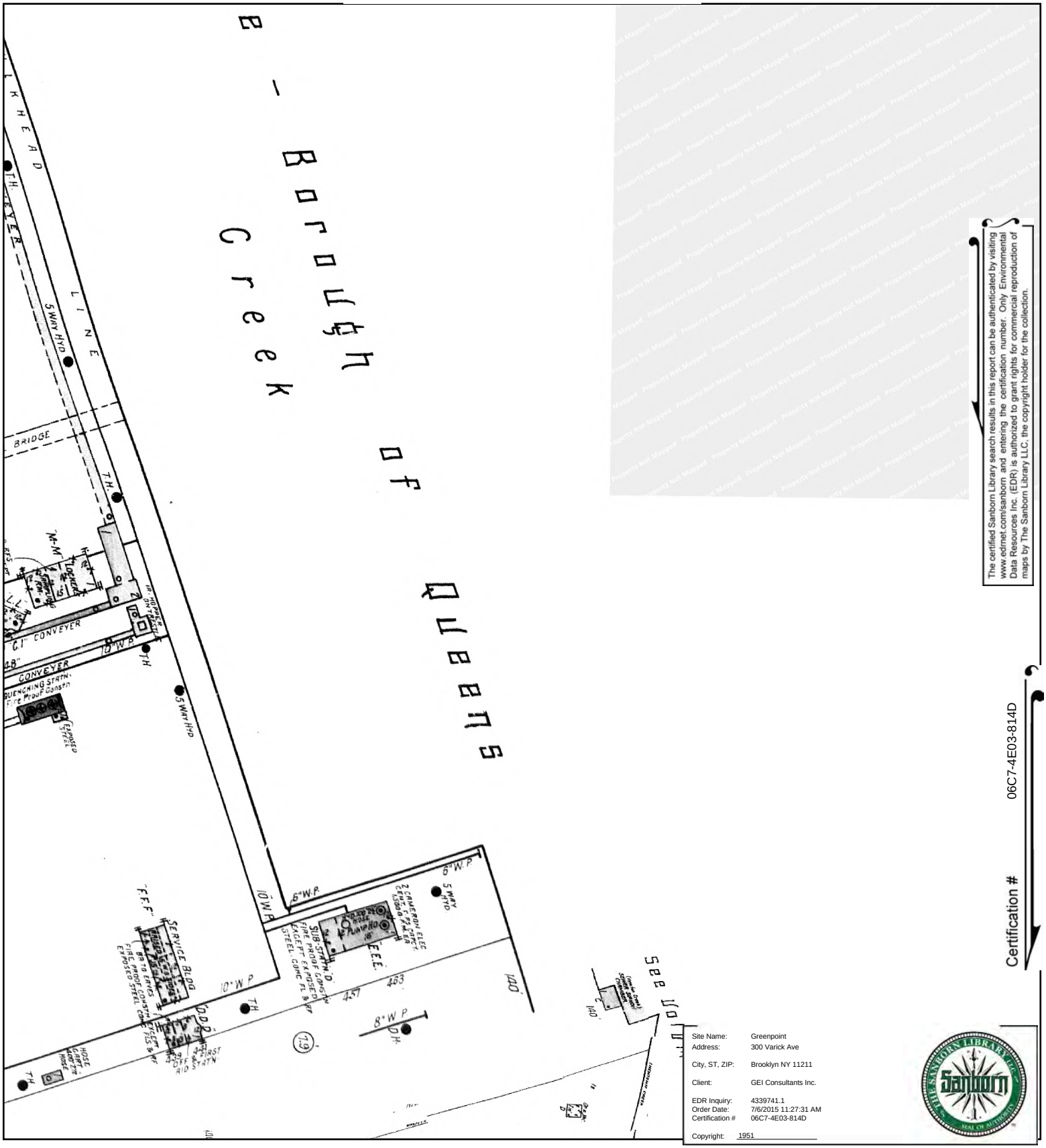

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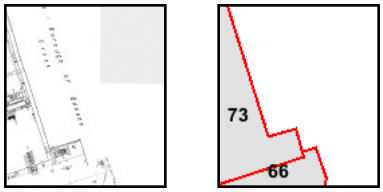

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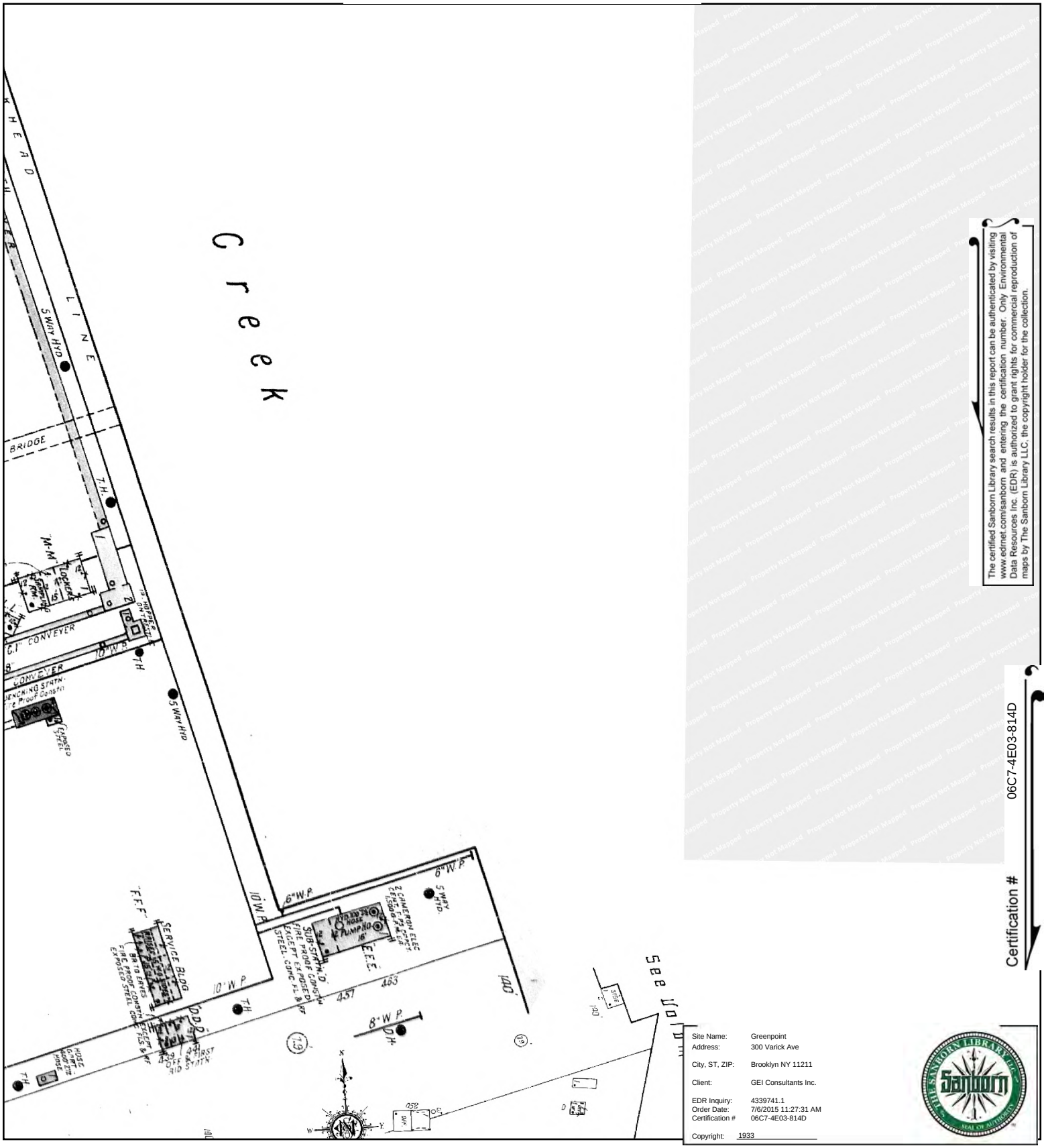
1933 Certified Sanborn Map



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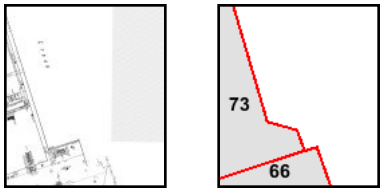

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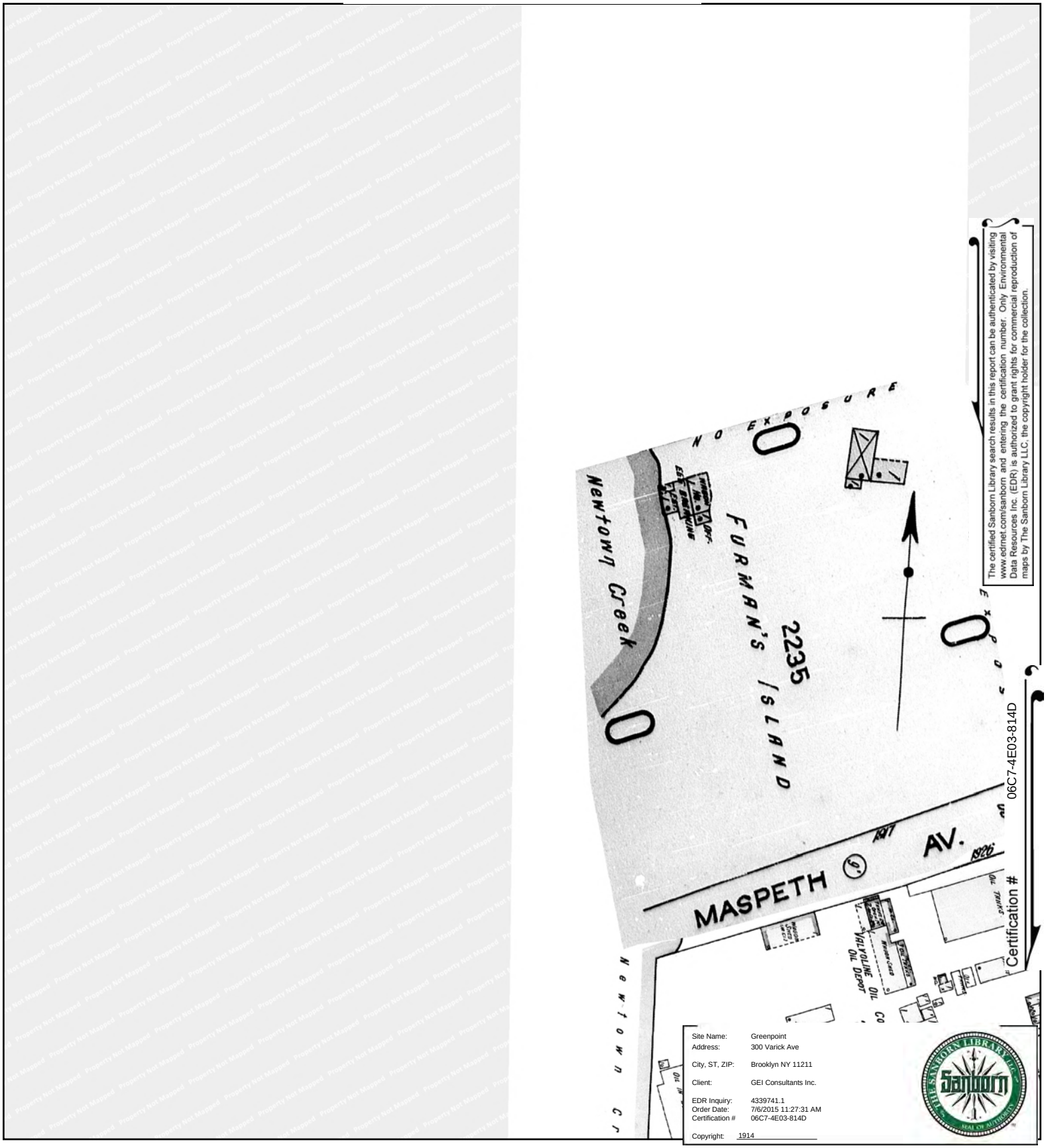
1914 Certified Sanborn Map



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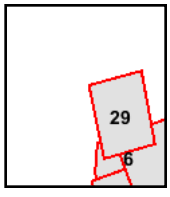

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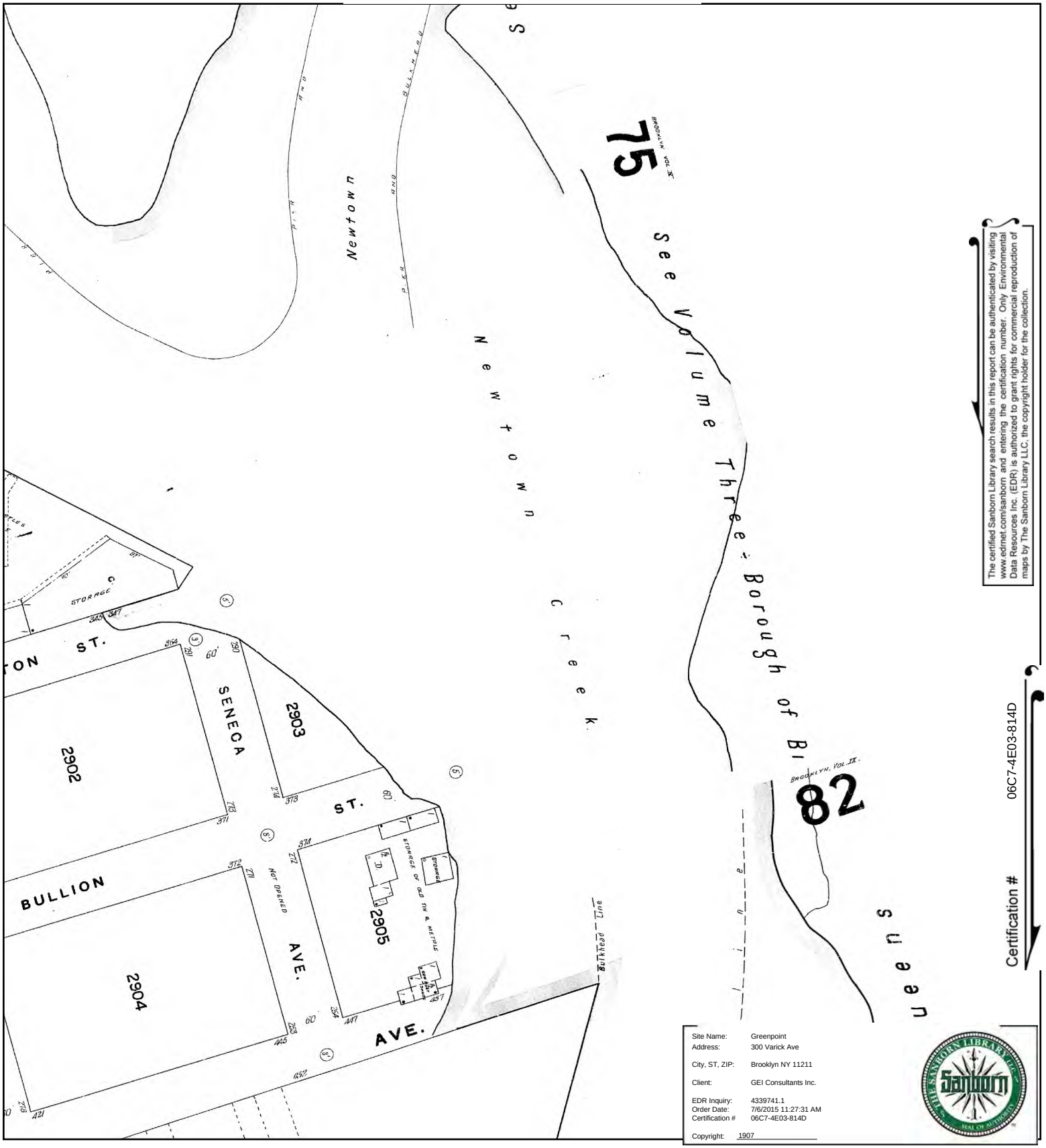

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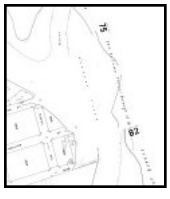

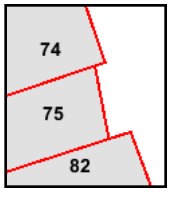

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Volume 9, Sheet 75
Volume 9, Sheet 82

0 Feet 165 330 660

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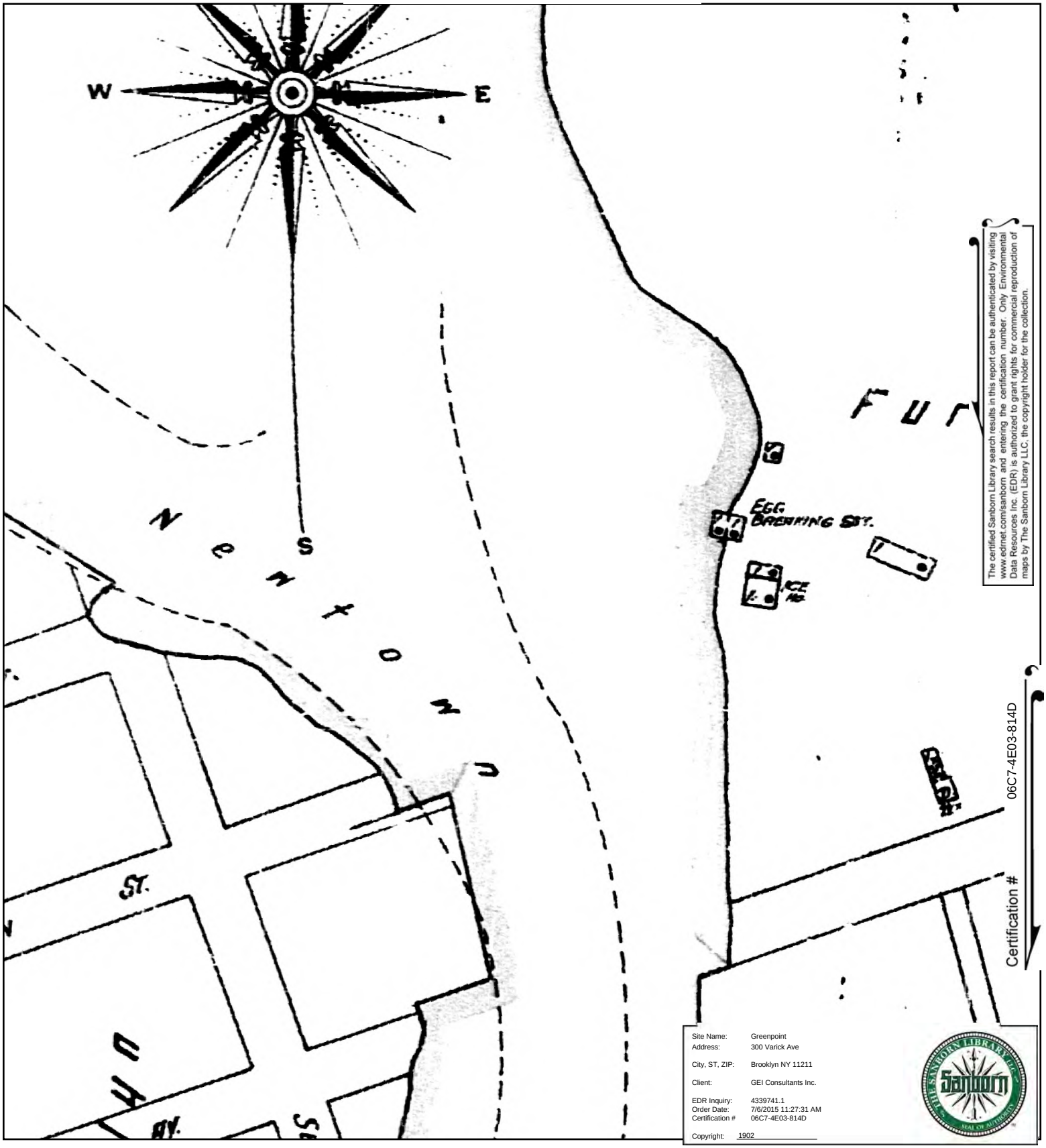
1902 Certified Sanborn Map



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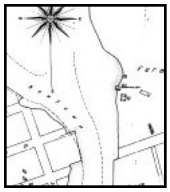

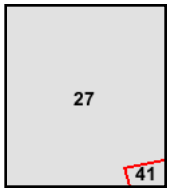

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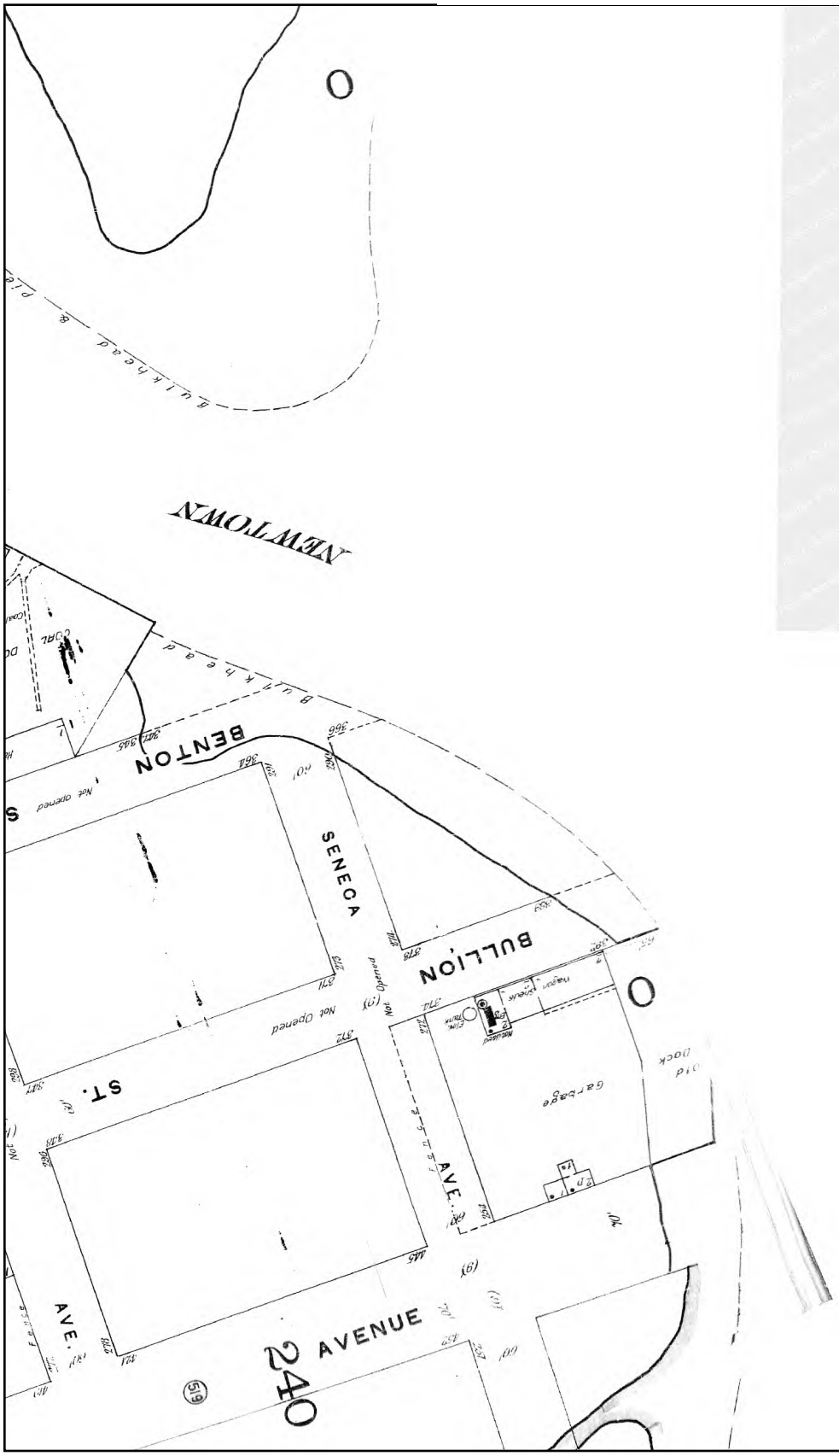
1888 Certified Sanborn Map



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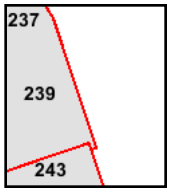

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

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Shelton, Connecticut 06484
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Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
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Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
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- ✓ Library of Congress
- ✓ University Publications of America
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Sanborn Sheet Thumbnails

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2007 Source Sheets



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Volume 9, Sheet 65

2006 Source Sheets



Volume 9, Sheet 63



Volume 9, Sheet 64



Volume 9, Sheet 65

2005 Source Sheets



Volume 9, Sheet 63



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Volume 9, Sheet 65

2004 Source Sheets



Volume 9, Sheet 63



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Volume 9, Sheet 65

2003 Source Sheets



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2002 Source Sheets



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Volume 9, Sheet 65

2001 Source Sheets



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1995 Source Sheets



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1994 Source Sheets



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Volume 9, Sheet 65

1993 Source Sheets



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Volume 9, Sheet 64



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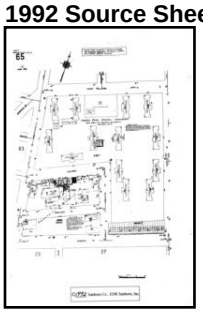
1992 Source Sheets



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1991 Source Sheets



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Volume 9, Sheet 63

1990 Source Sheets



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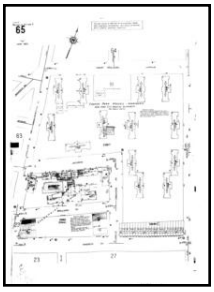

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1989 Source Sheets



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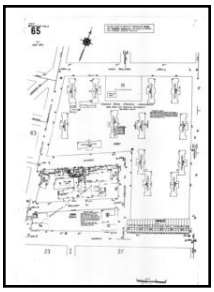

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1988 Source Sheets



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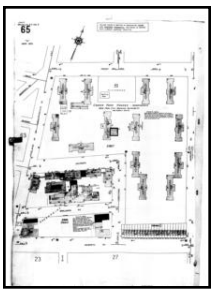

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1987 Source Sheets



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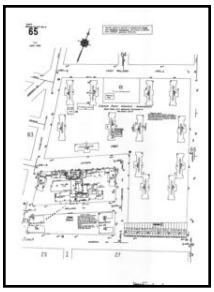

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1986 Source Sheets



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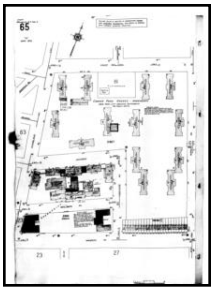

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1982 Source Sheets



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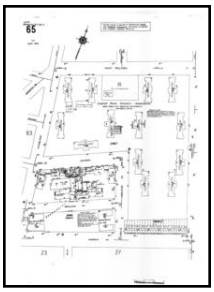

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1981 Source Sheets



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1980 Source Sheets



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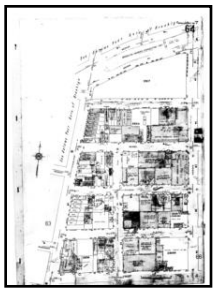

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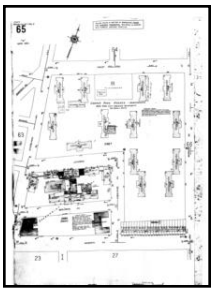

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1979 Source Sheets



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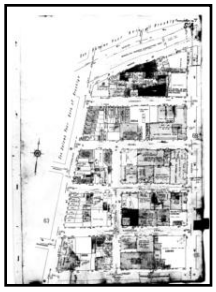

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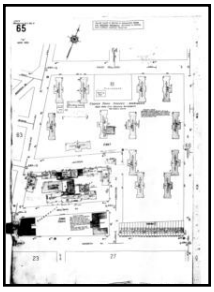

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1977 Source Sheets



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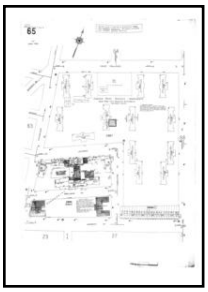

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1968 Source Sheets



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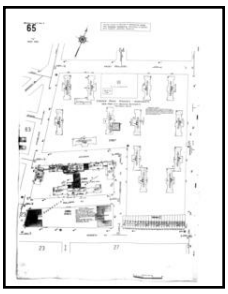

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1965 Source Sheets



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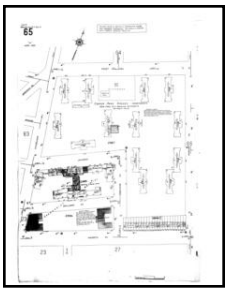

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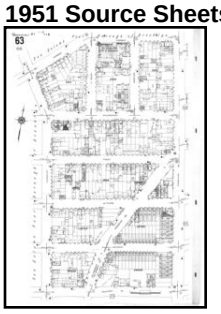

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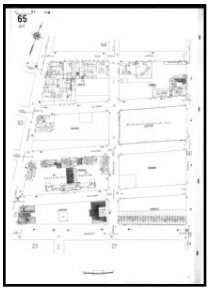

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1933 Source Sheets



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1888 Source Sheets



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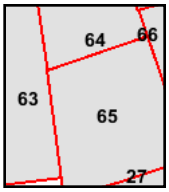

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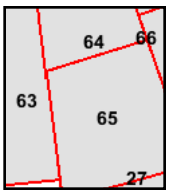

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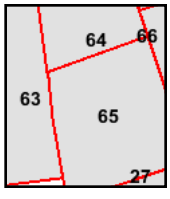

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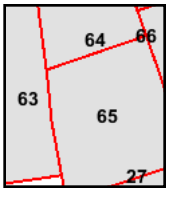

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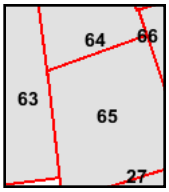

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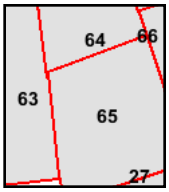

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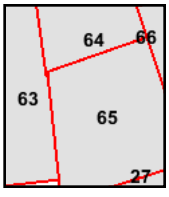

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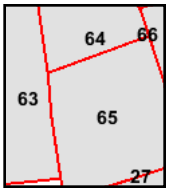

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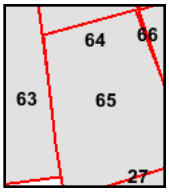

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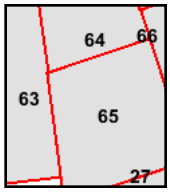

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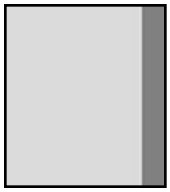

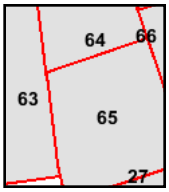

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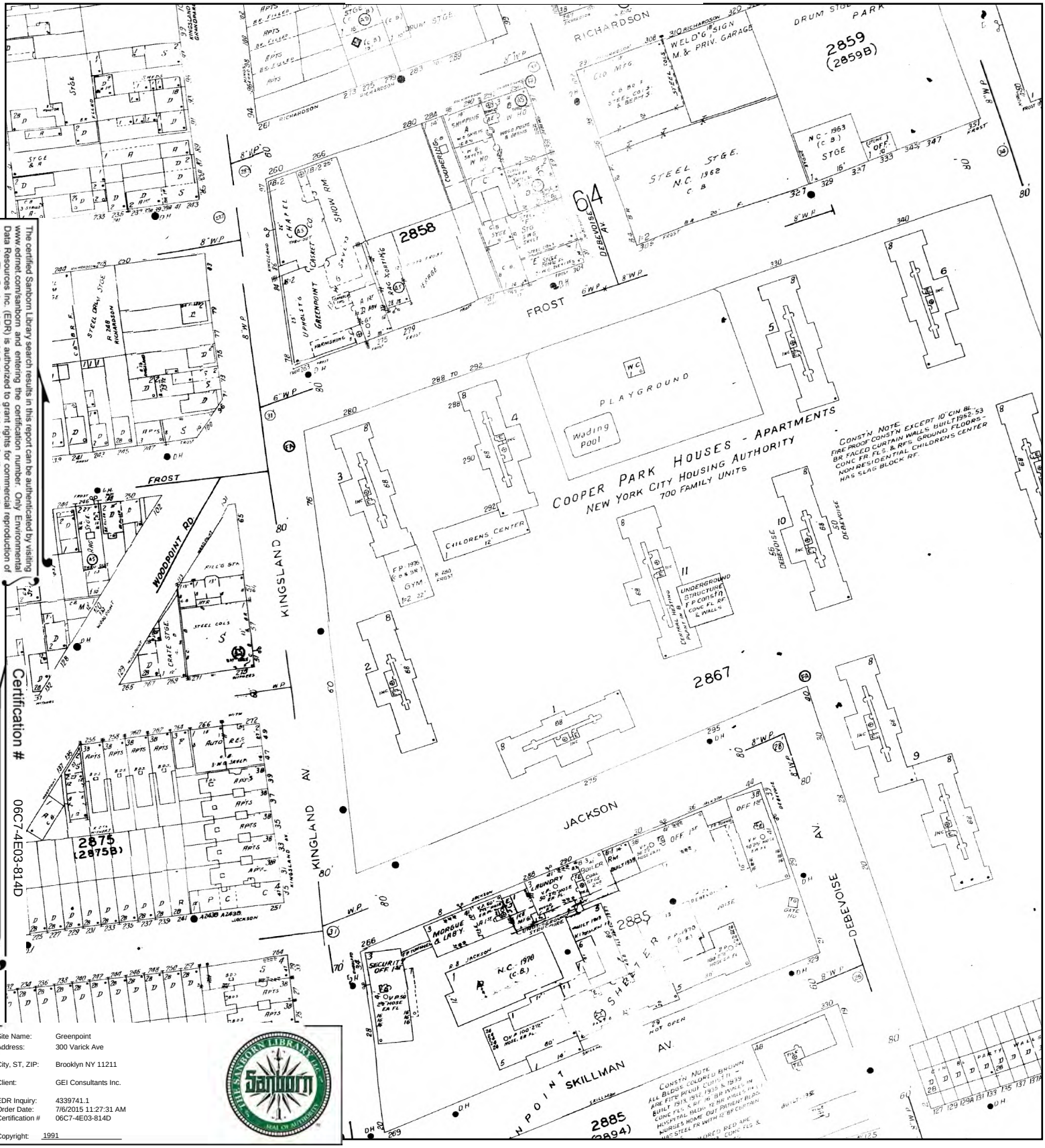

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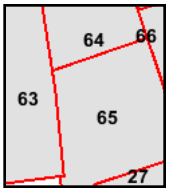

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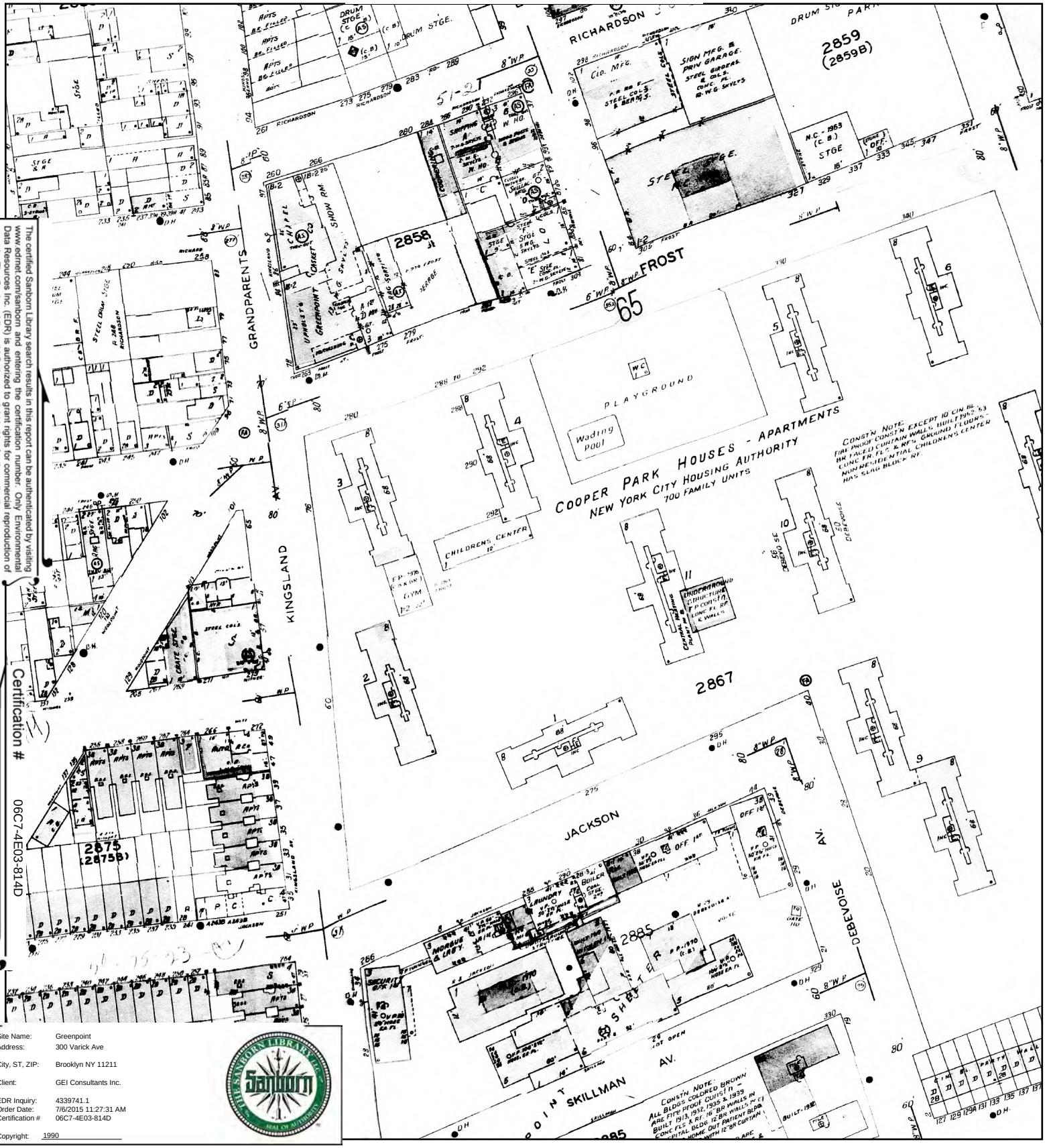

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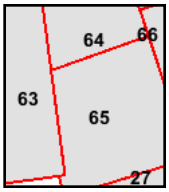

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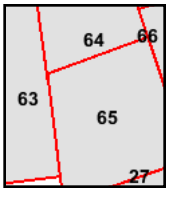

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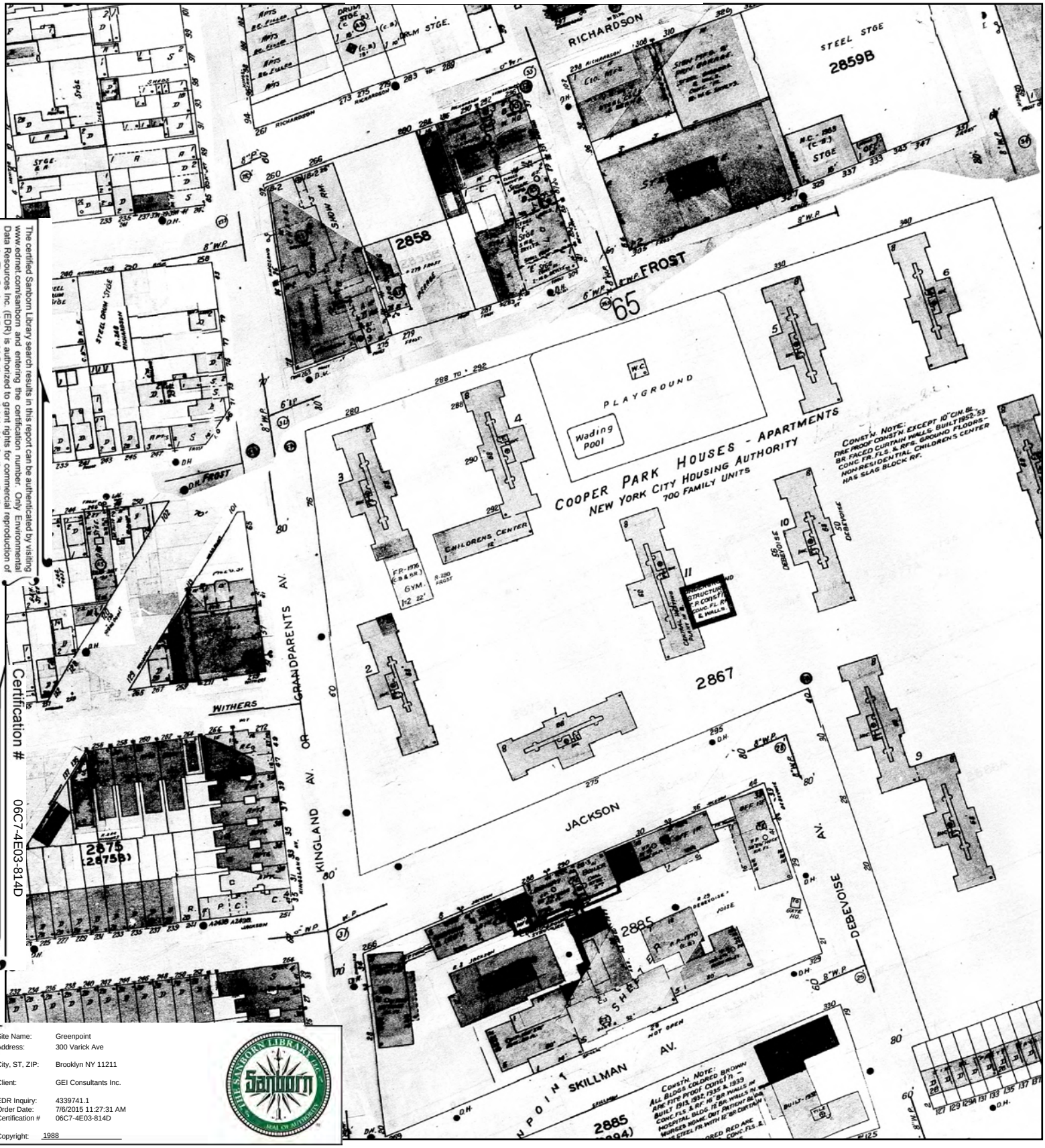
1988 Certified Sanborn Map



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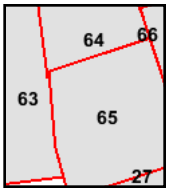

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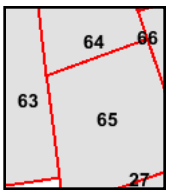

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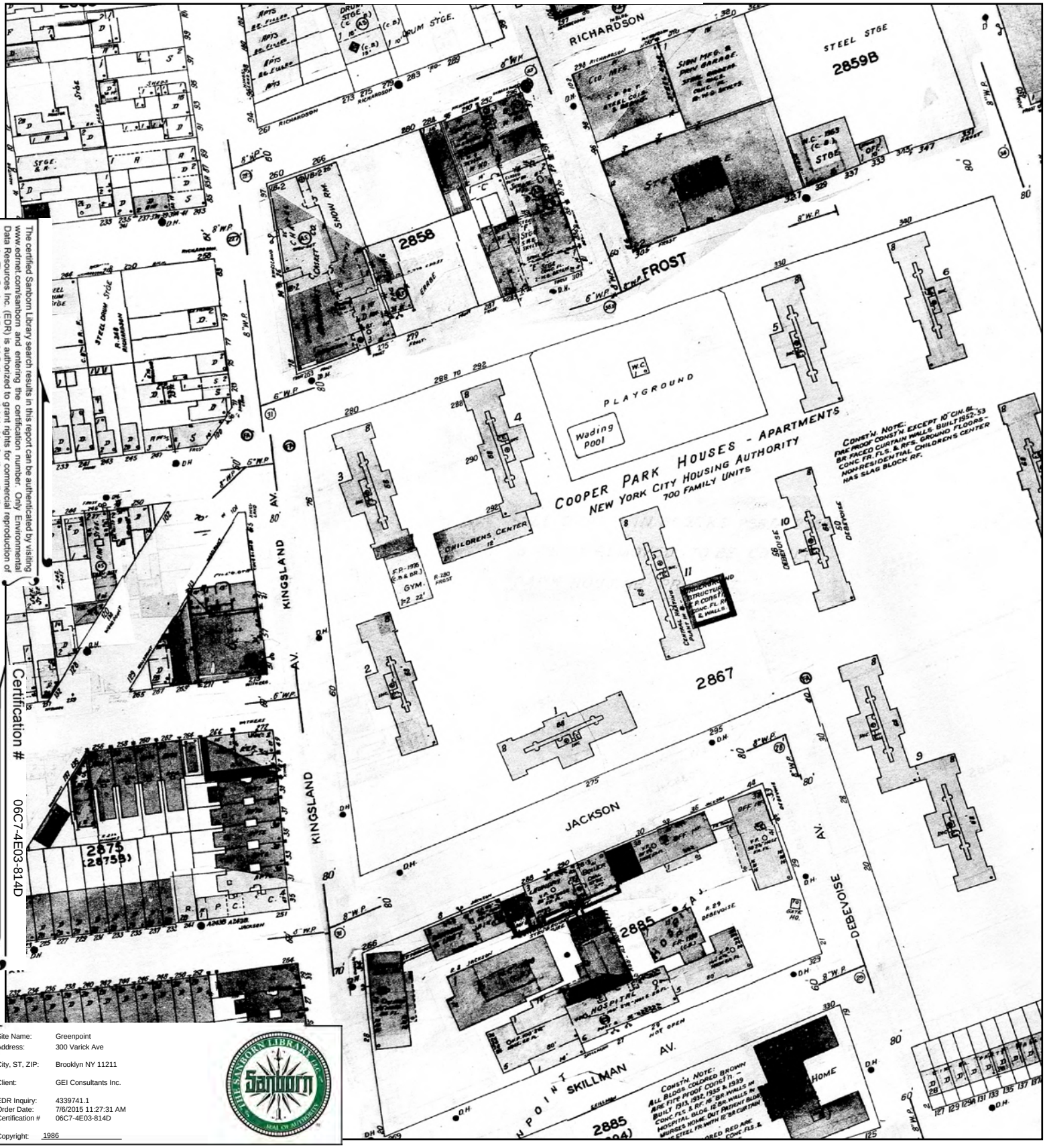
1986 Certified Sanborn Map



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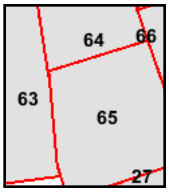

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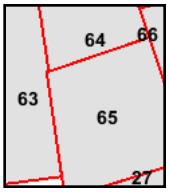

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1981 Certified Sanborn Map



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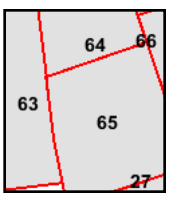

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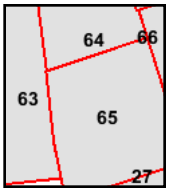

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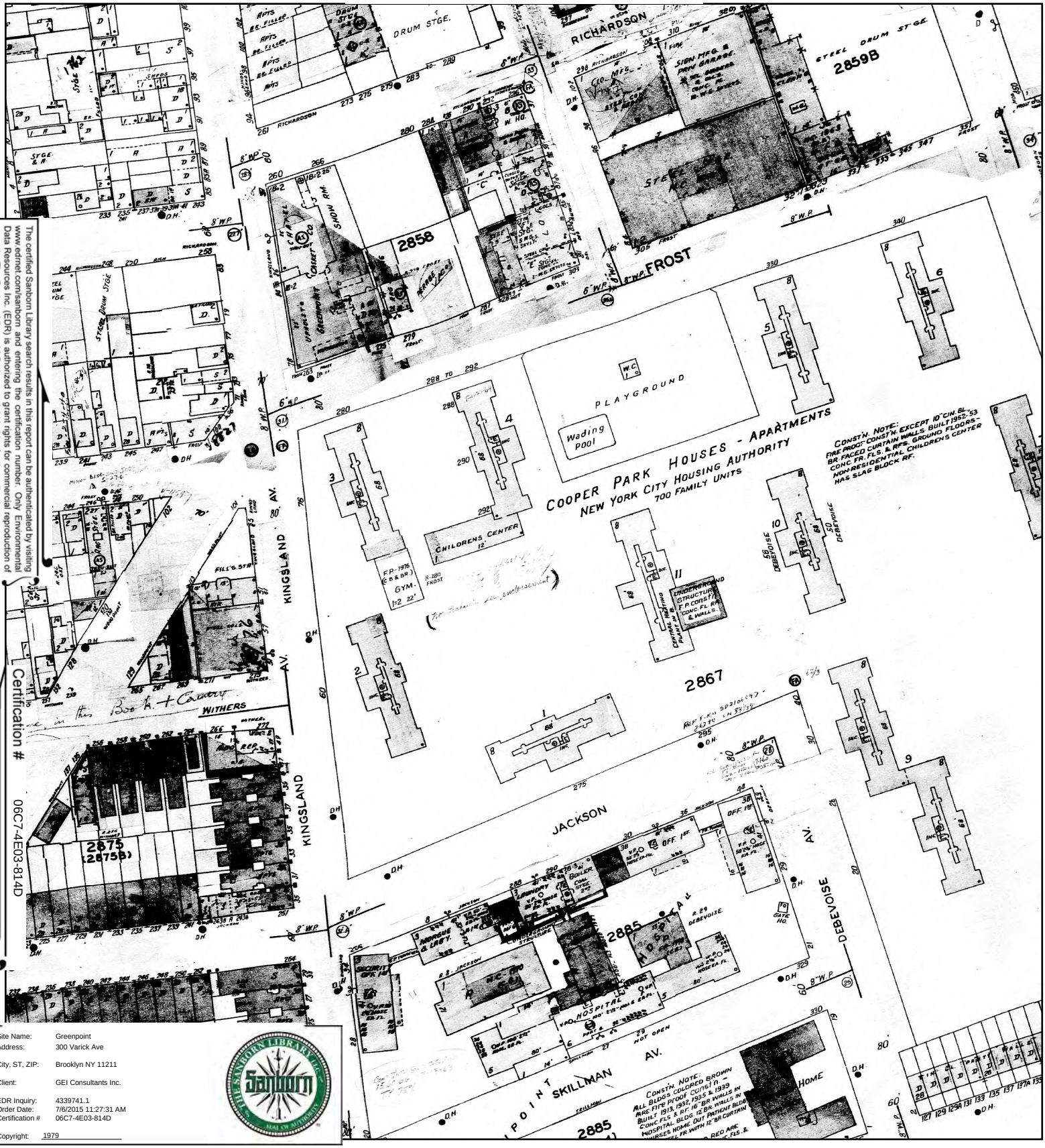
1979 Certified Sanborn Map



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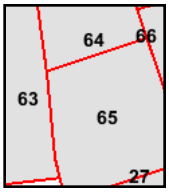

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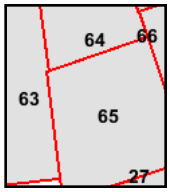

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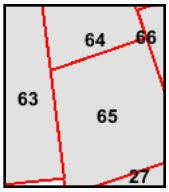

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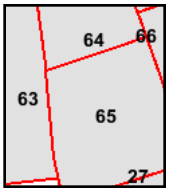

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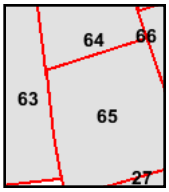

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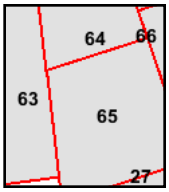

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Volume 9, Sheet 64
Volume 9, Sheet 65

0 Feet 165 330 660

N

1907 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1907

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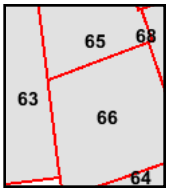

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Volume 9, Sheet 66

0 Feet 165 330 660

N

1888 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1888

This Certified Sanborn Map combines the following sheets.
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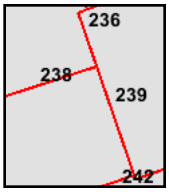

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Volume 9, Sheet 238
Volume 9, Sheet 238
Volume 9, Sheet 239

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by GEI Consultants Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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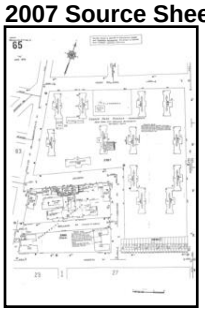
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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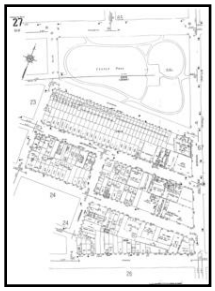

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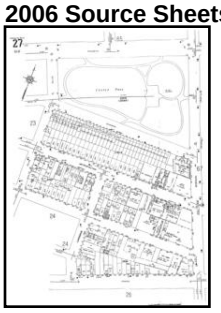
2006 Source Sheets



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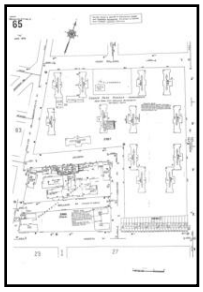

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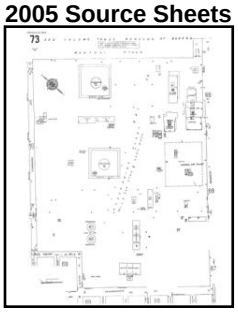

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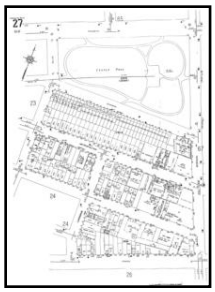

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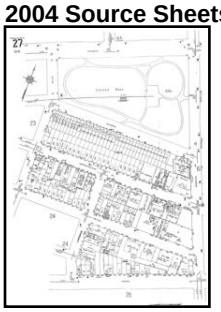

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2003 Source Sheets



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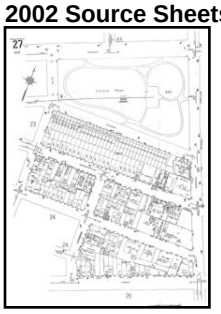
2002 Source Sheets



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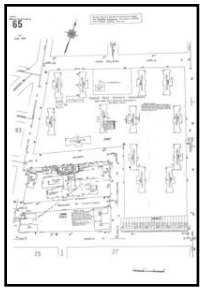

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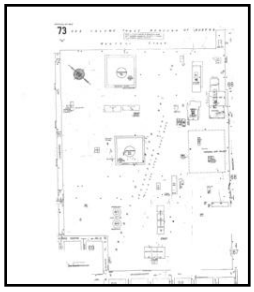

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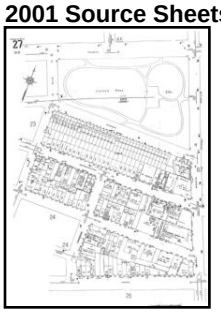

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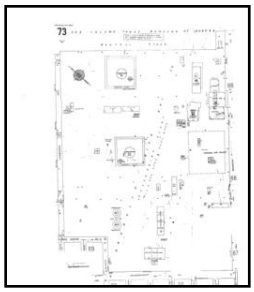

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1995 Source Sheets



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1994 Source Sheets



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1993 Source Sheets



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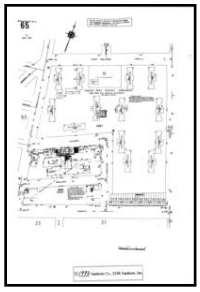

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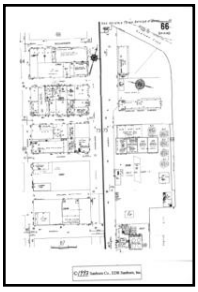

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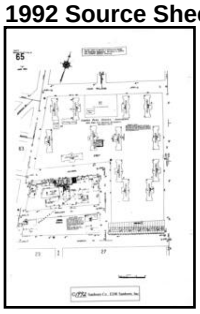
1992 Source Sheets



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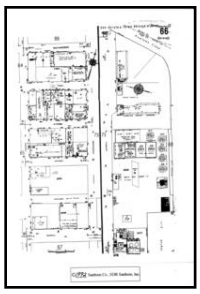

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1991 Source Sheets



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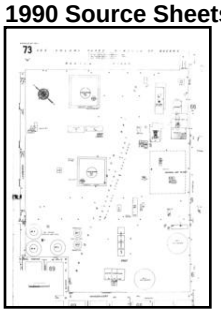
1990 Source Sheets



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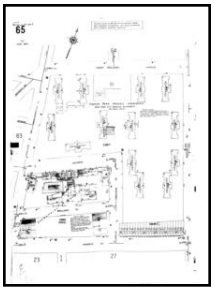

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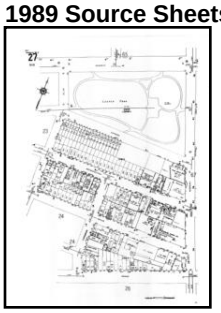

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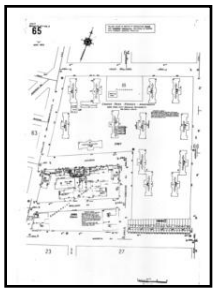

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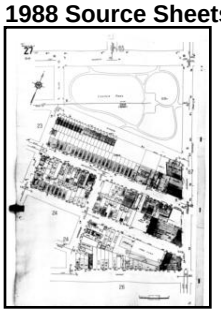

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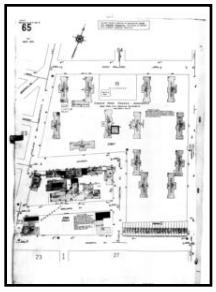

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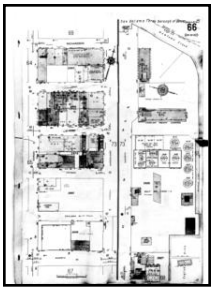

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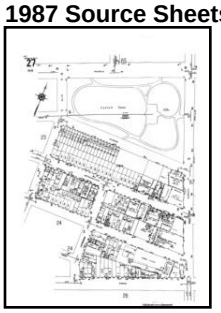
1987 Source Sheets



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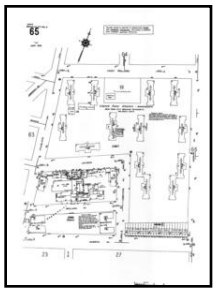

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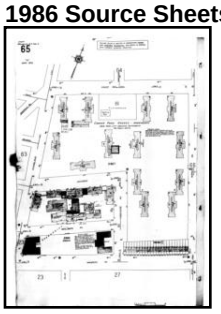
1986 Source Sheets



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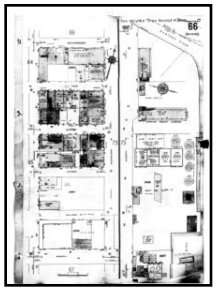

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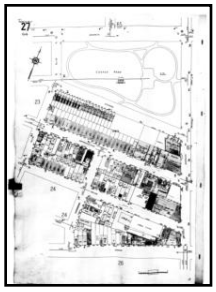

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1982 Source Sheets



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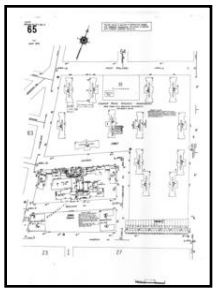

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1981 Source Sheets



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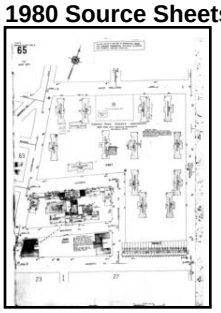
1980 Source Sheets



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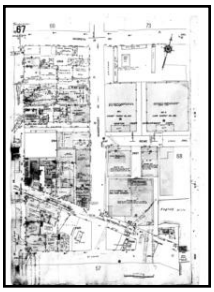

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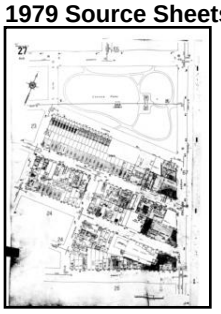
1979 Source Sheets



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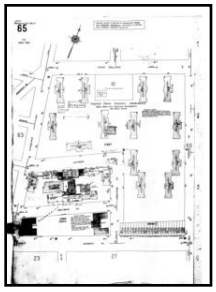

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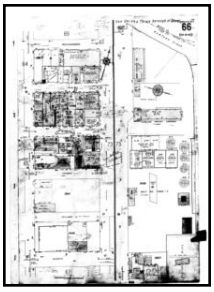

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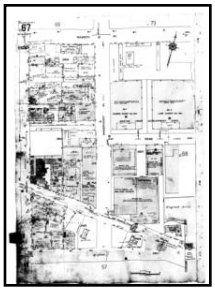

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1977 Source Sheets



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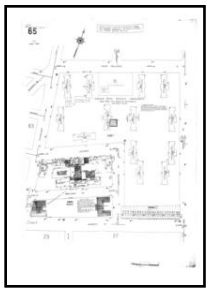

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1968 Source Sheets



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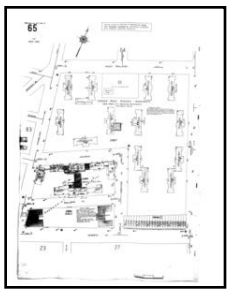

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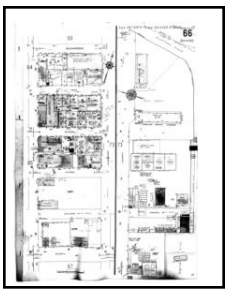

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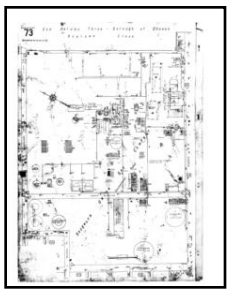

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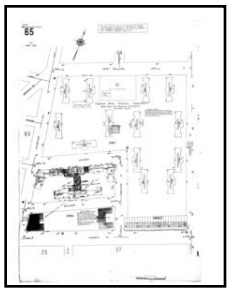
1965 Source Sheets



Volume 9, Sheet 27



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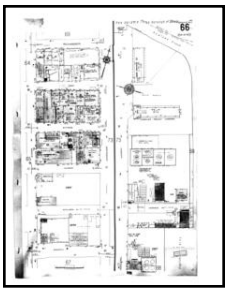

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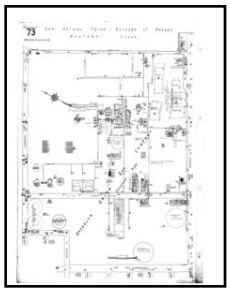

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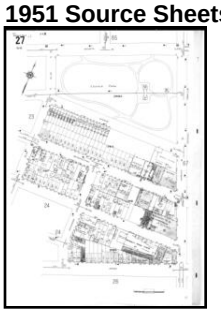
1951 Source Sheets



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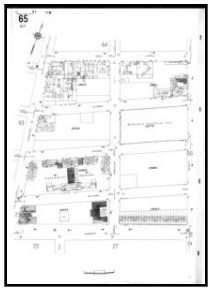

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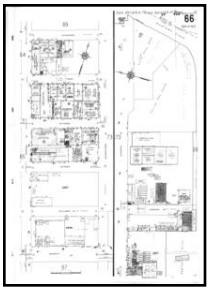

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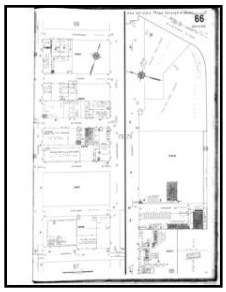
Volume 9, Sheet 73

1933 Source Sheets



Volume 9, Sheet 65



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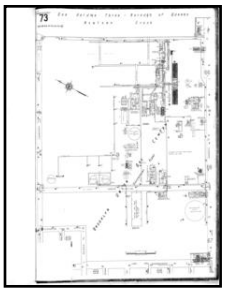

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Volume 9, Sheet 27

1907 Source Sheets



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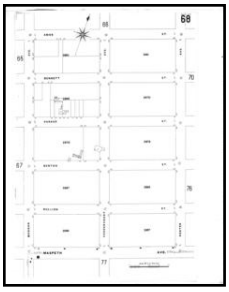
Volume 9, Sheet 66



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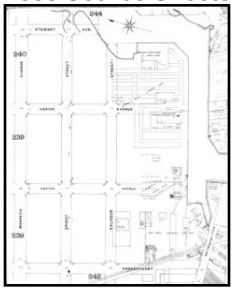
1888 Source Sheets



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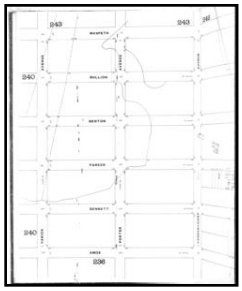

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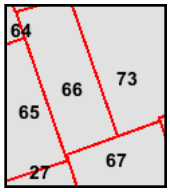

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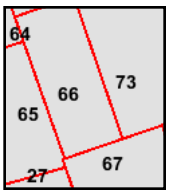

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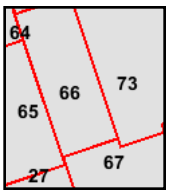

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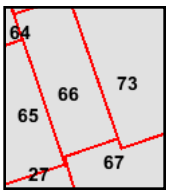

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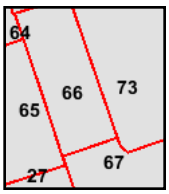

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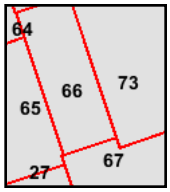

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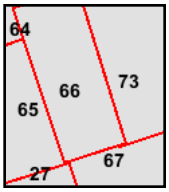

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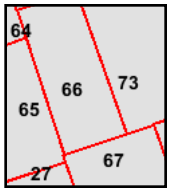

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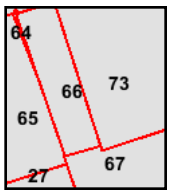

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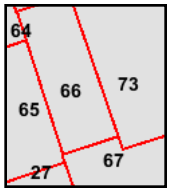

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Volume 9, Sheet 65	Volume 9, Sheet 66
Volume 9, Sheet 66	Volume 9, Sheet 67
Volume 9, Sheet 73	Volume 9, Sheet 73
Volume 9, Sheet 27	Volume 9, Sheet 27

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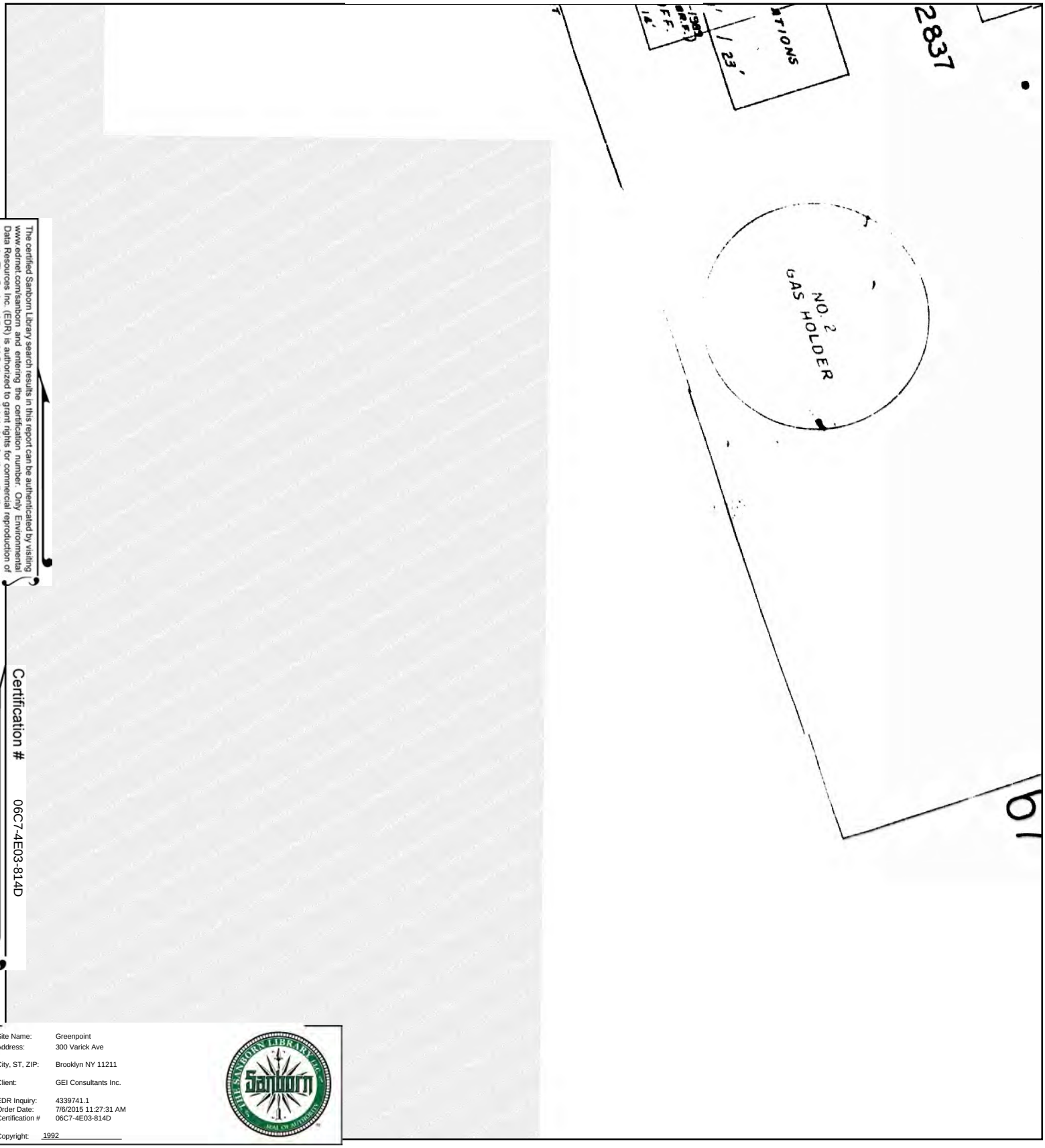
1992 Certified Sanborn Map



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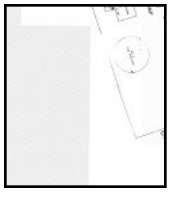

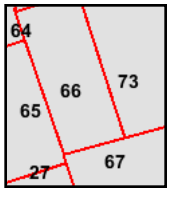

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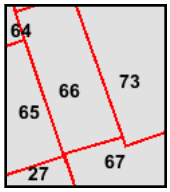

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Volume 9, Sheet 27

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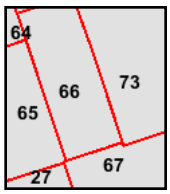

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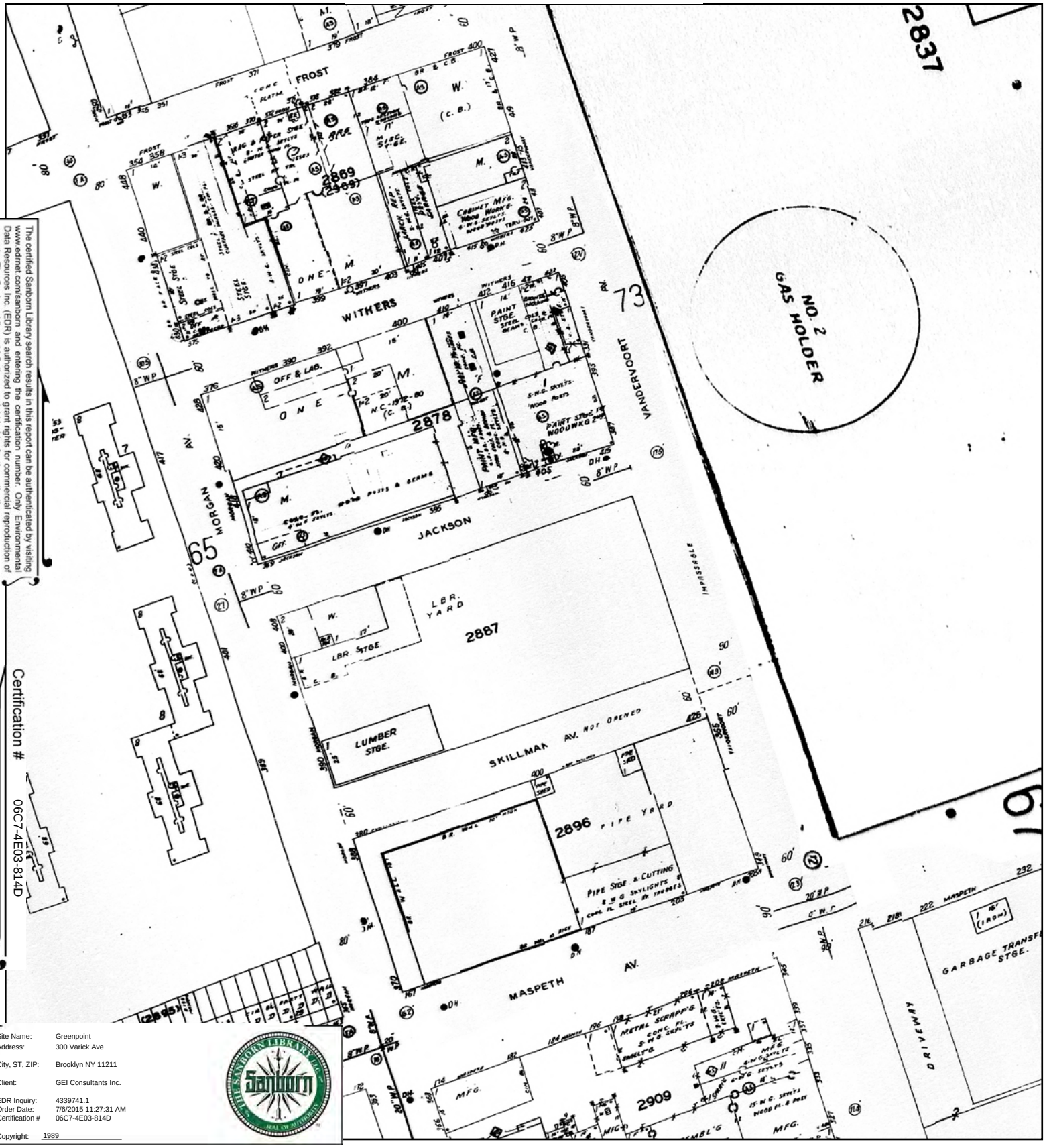
1989 Certified Sanborn Map



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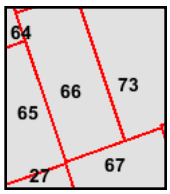

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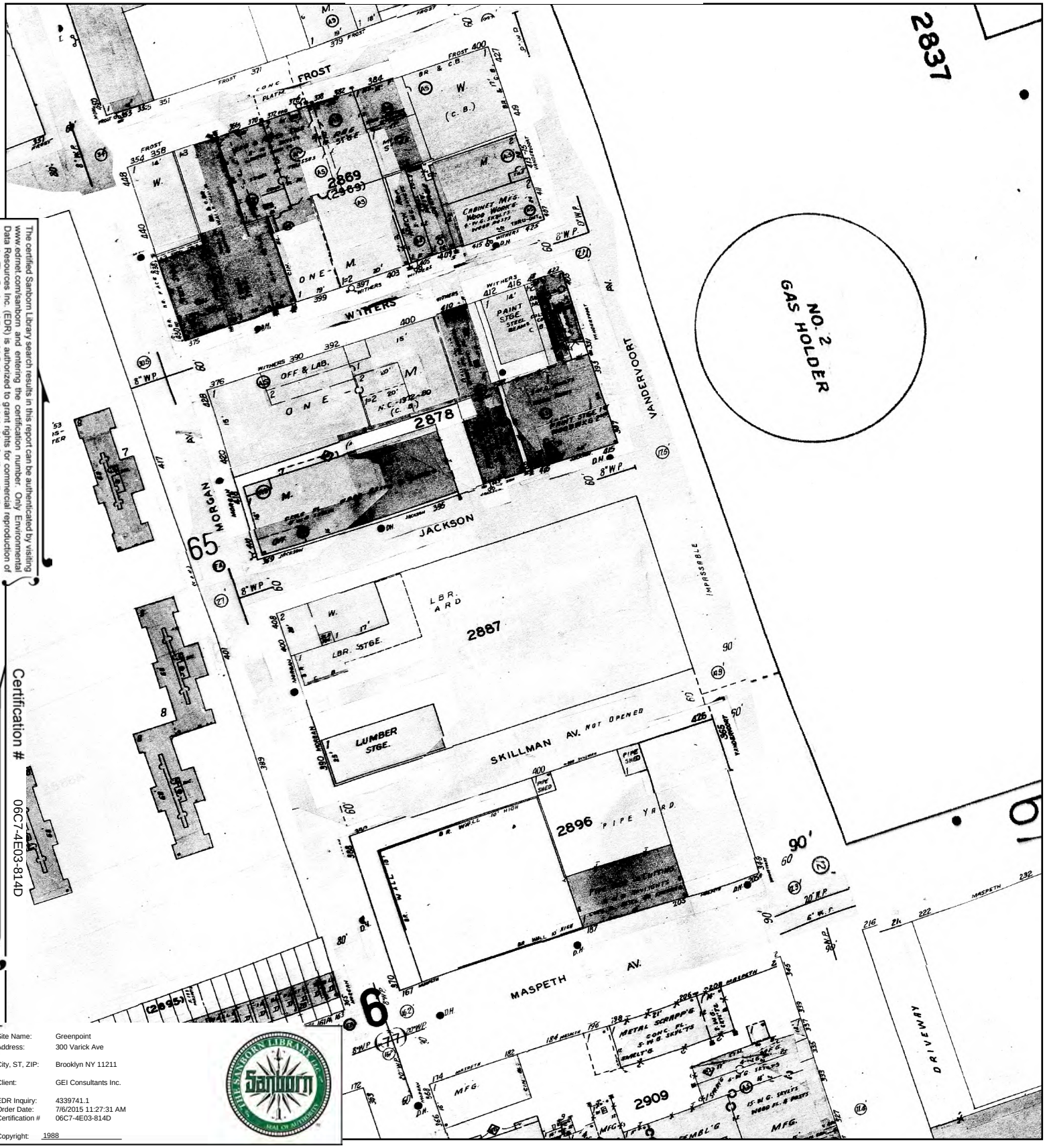
1988 Certified Sanborn Map



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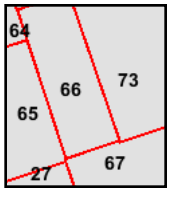

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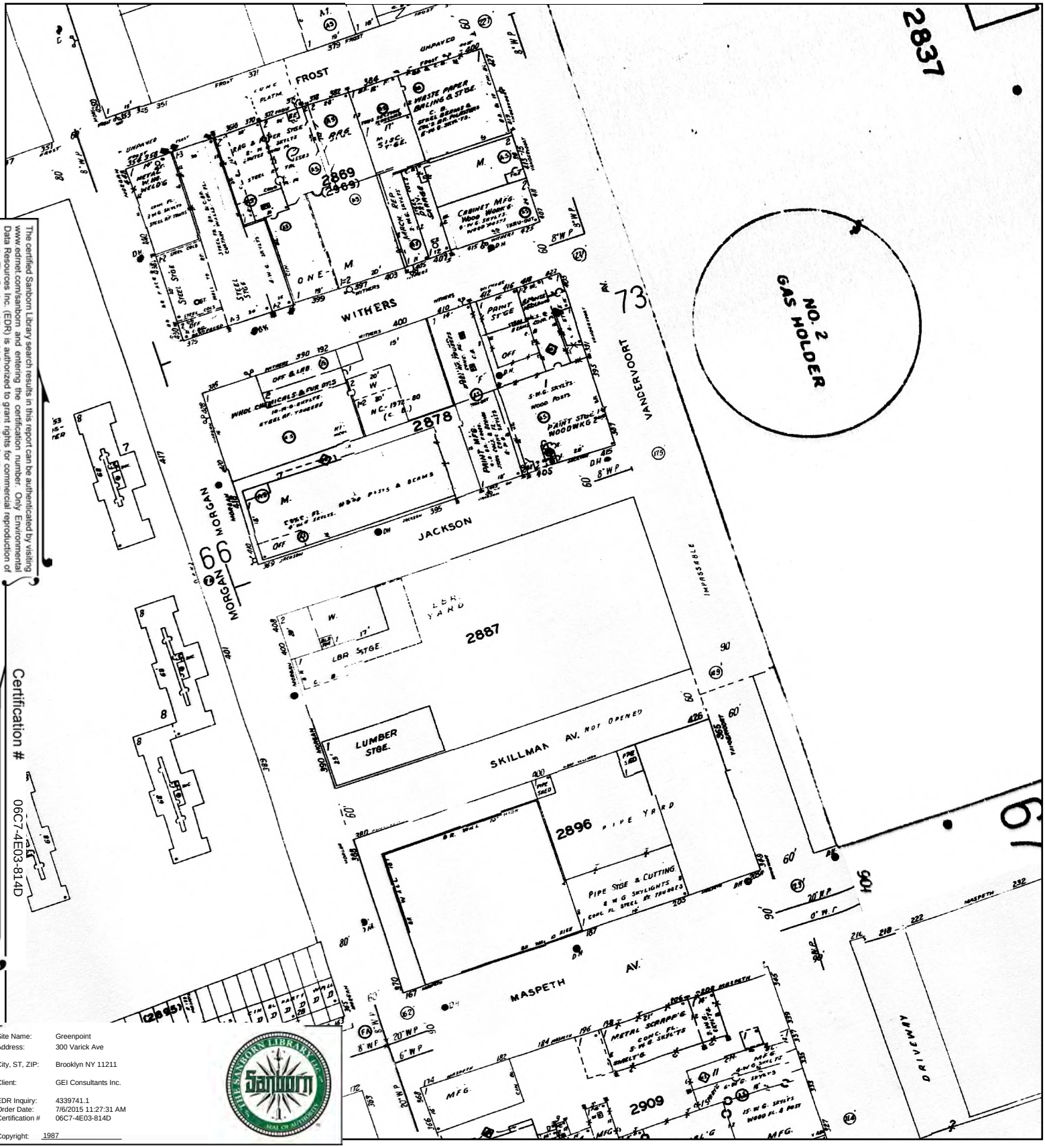
Volume 9, Sheet 67
Volume 9, Sheet 73

0 Feet 165 330 660

N

1987 Certified Sanborn Map



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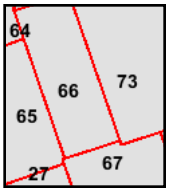

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Volume 9, Sheet 73

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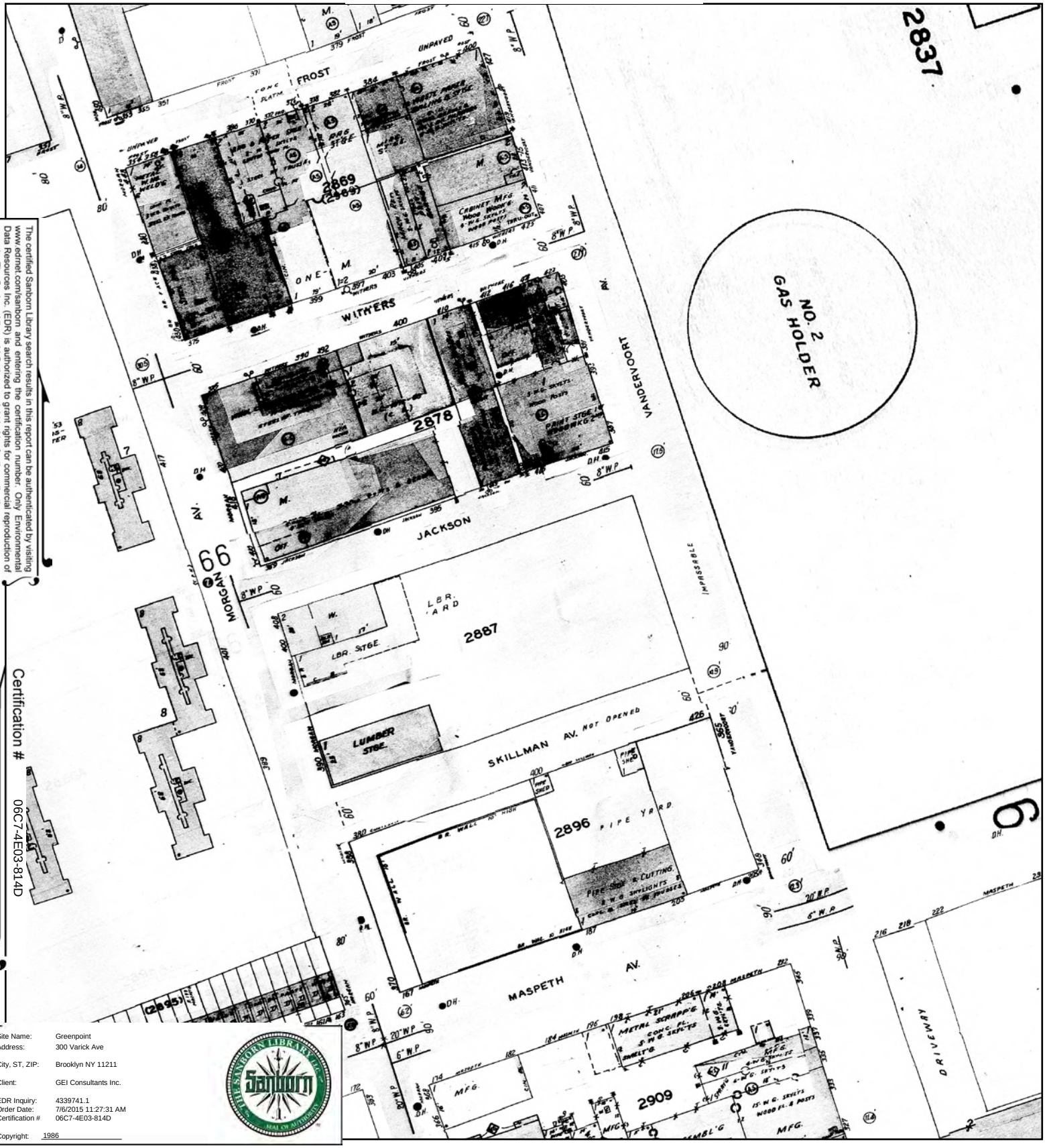
1986 Certified Sanborn Map



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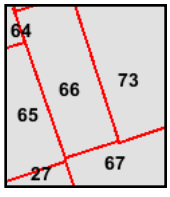

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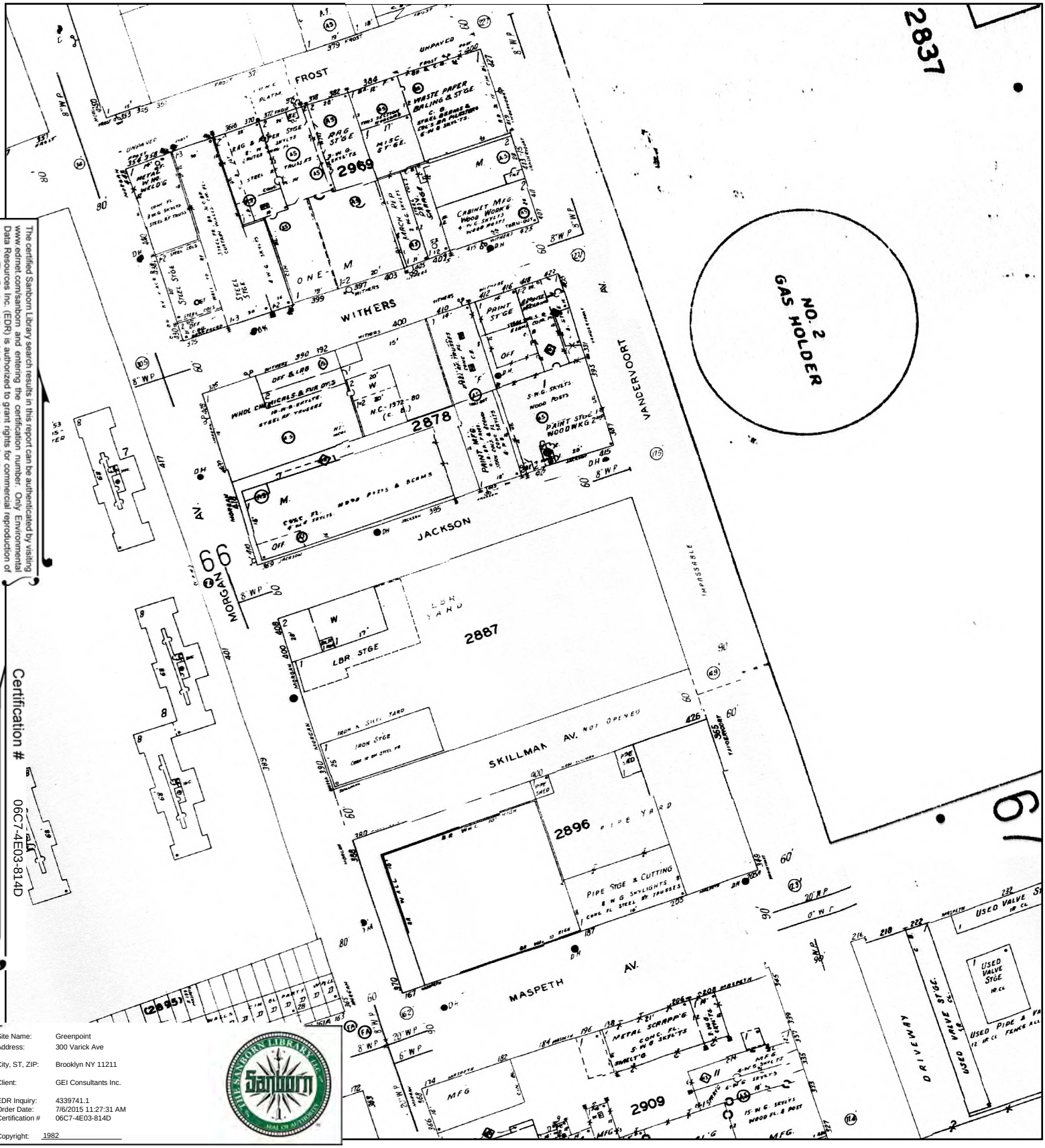
Volume 9, Sheet 67
Volume 9, Sheet 73
Volume 9, Sheet 27

0 Feet 165 330 660

N

1982 Certified Sanborn Map



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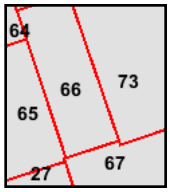

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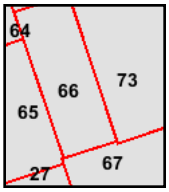

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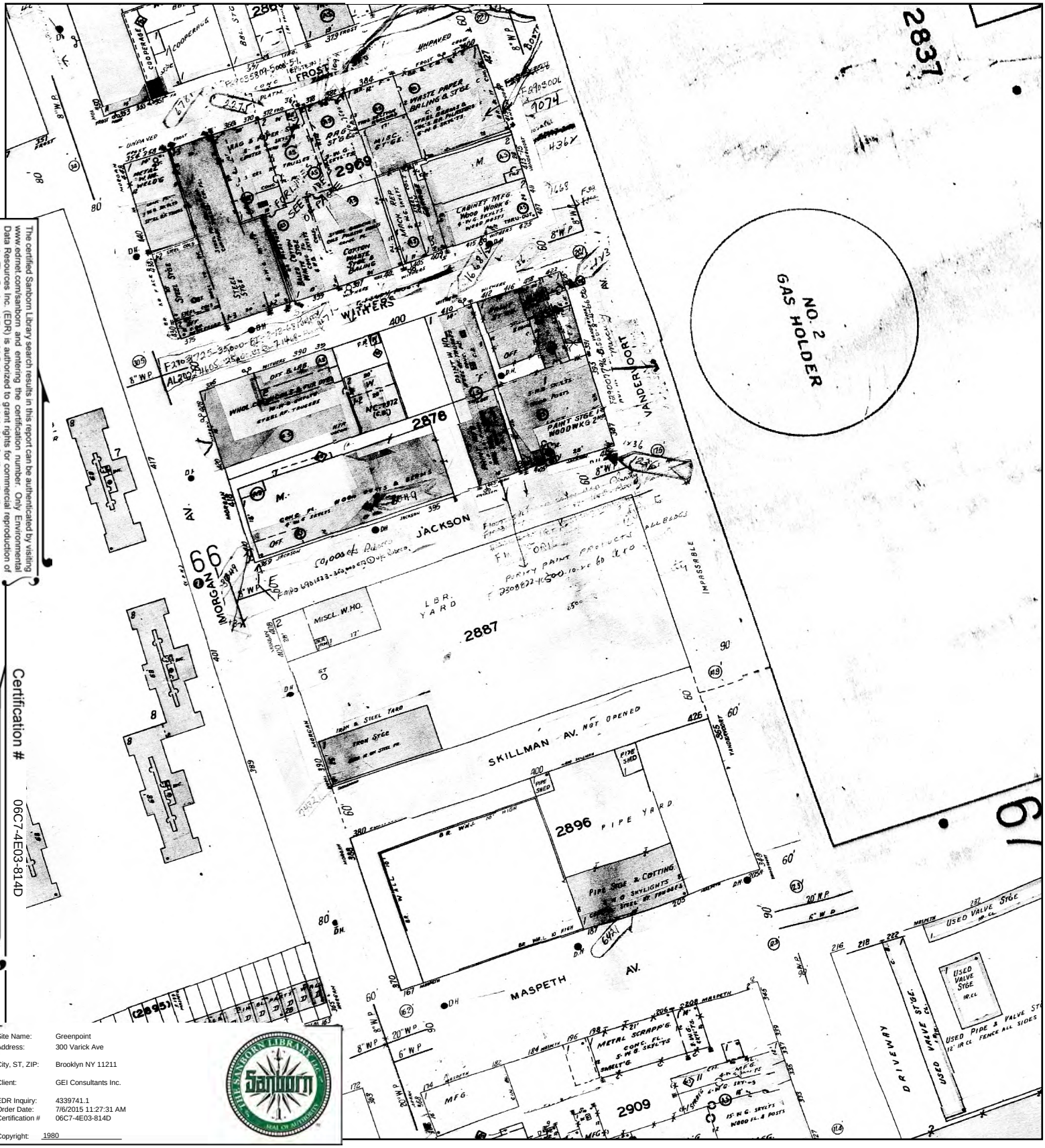
Volume 9, Sheet 67

0 Feet 165 330 660

N

1980 Certified Sanborn Map



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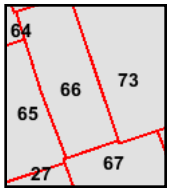

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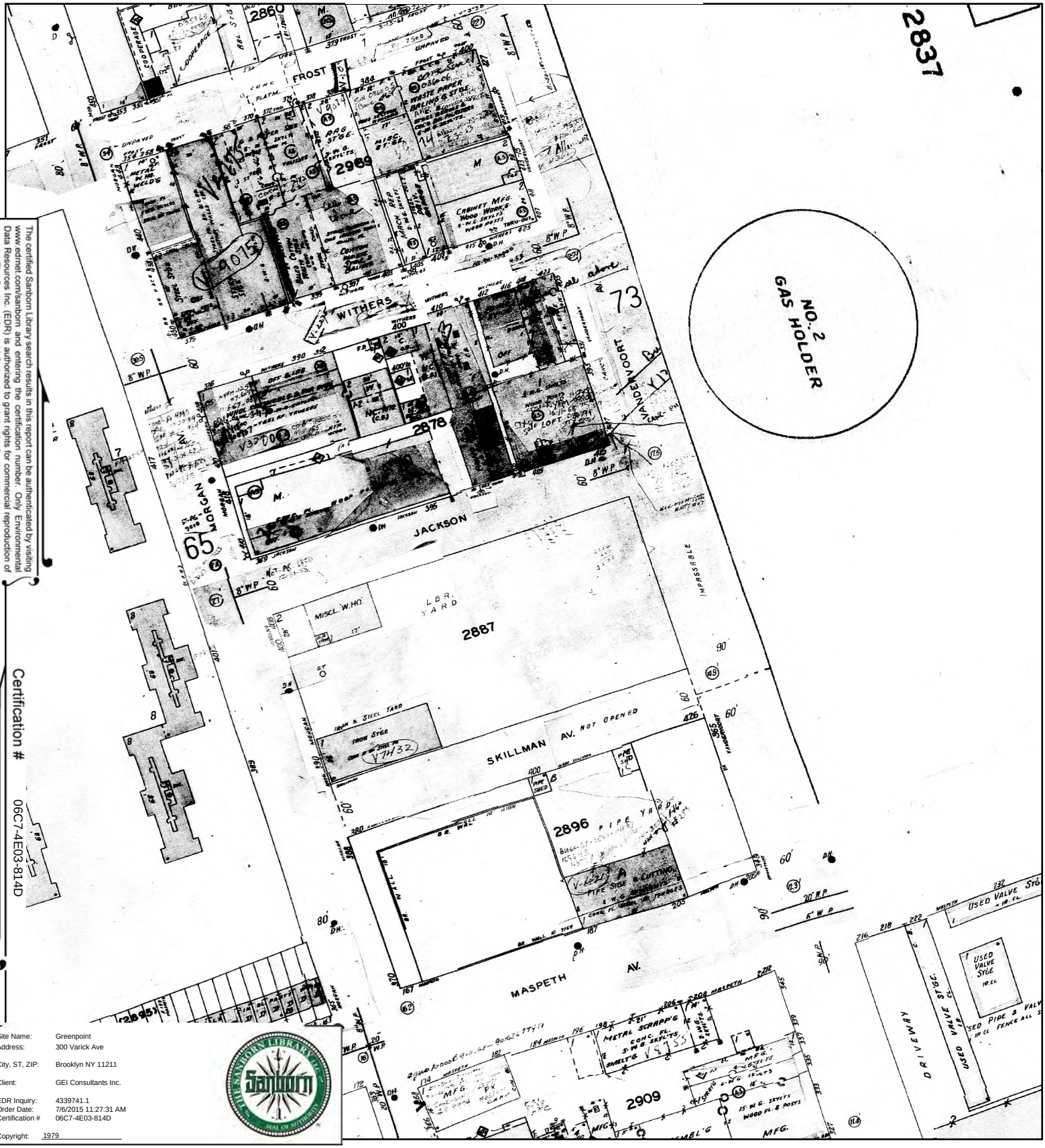
Volume 9, Sheet 27

0 Feet 165 330 660

N

1979 Certified Sanborn Map



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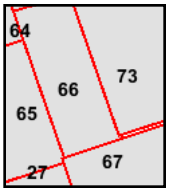

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1977 Certified Sanborn Map



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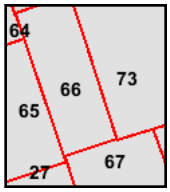

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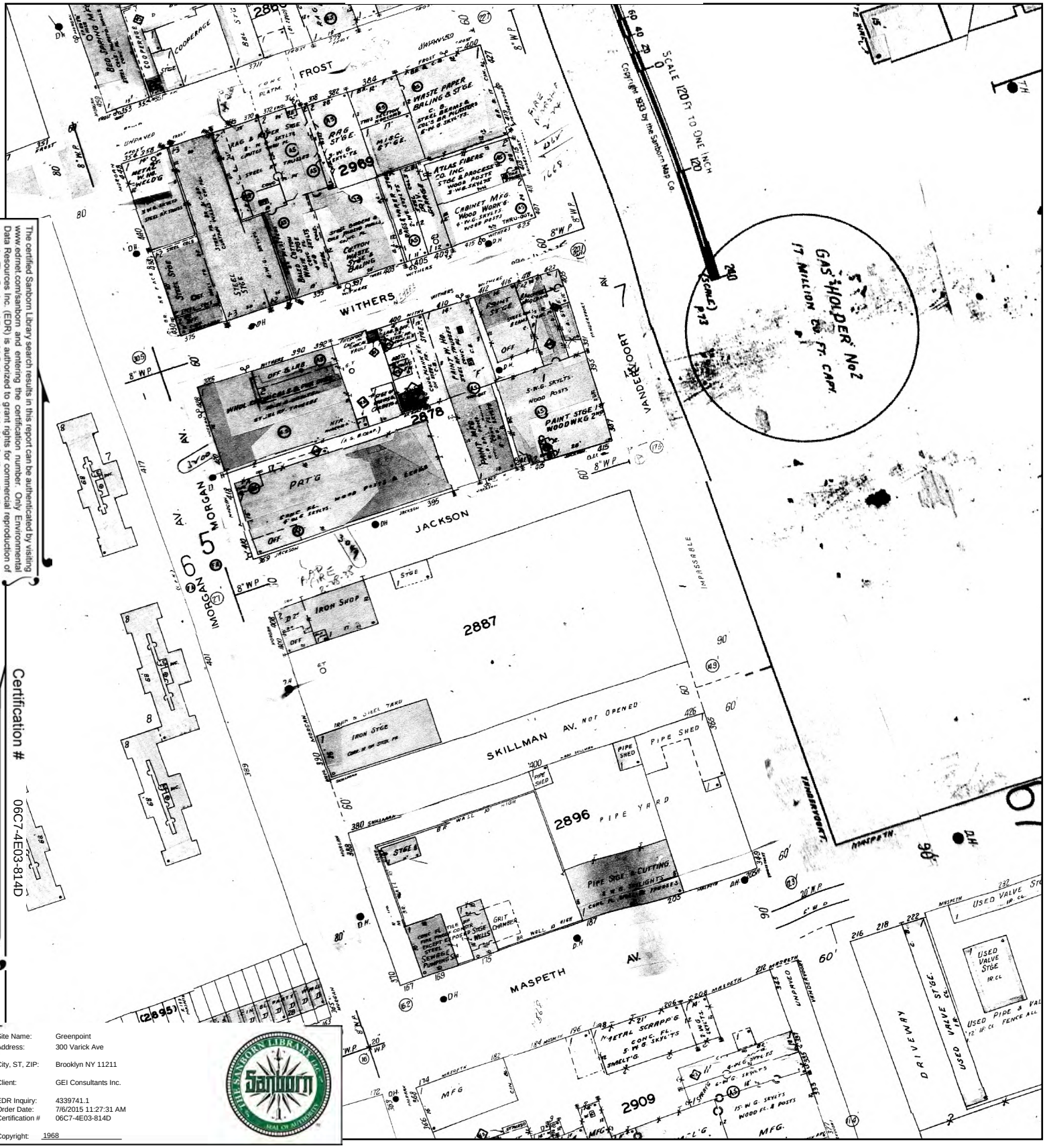
0 Feet 165 330 660

N

1968 Certified Sanborn Map



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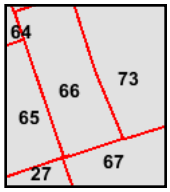

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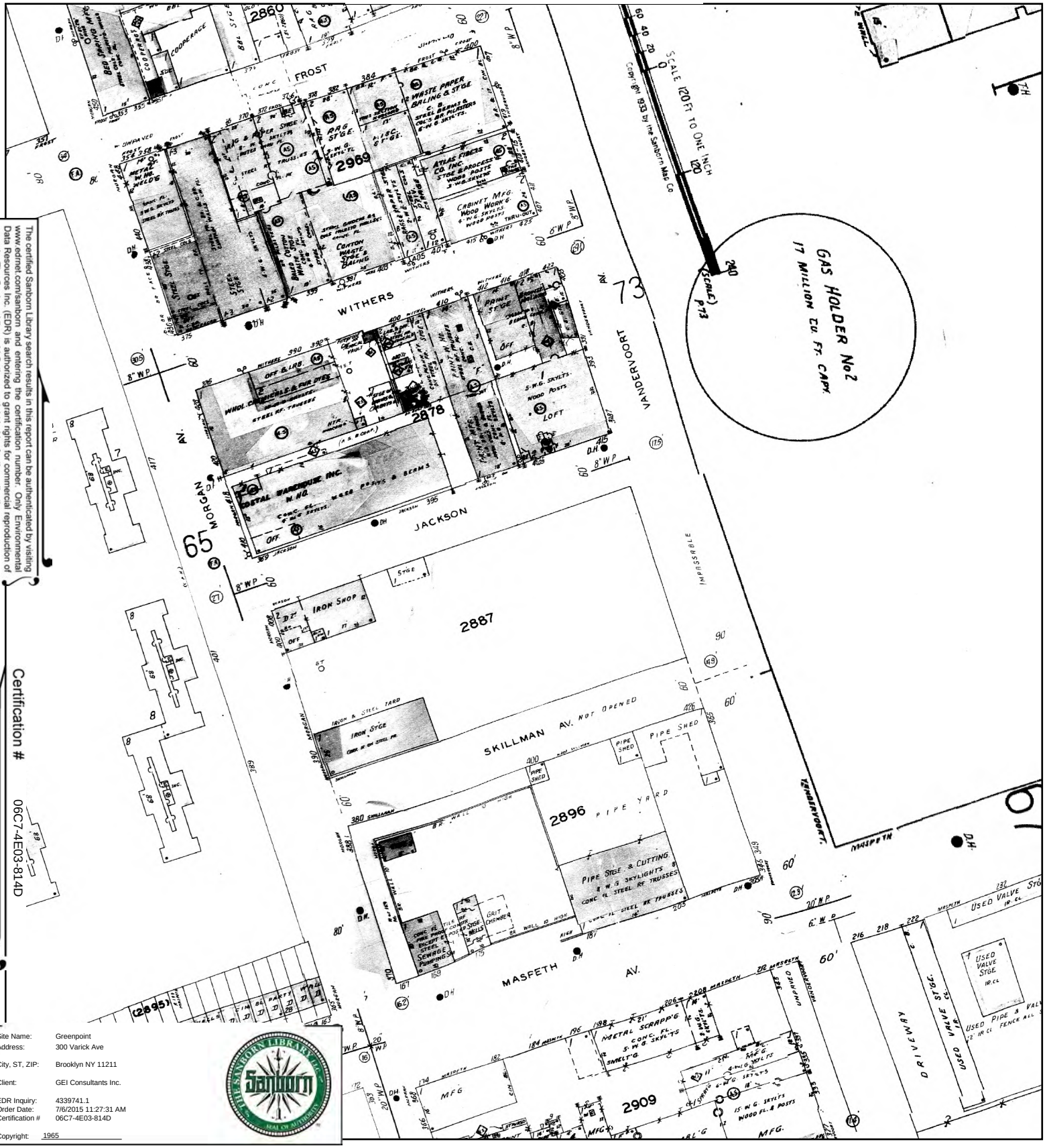
N

1965 Certified Sanborn Map



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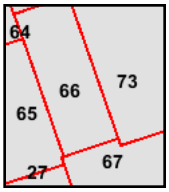

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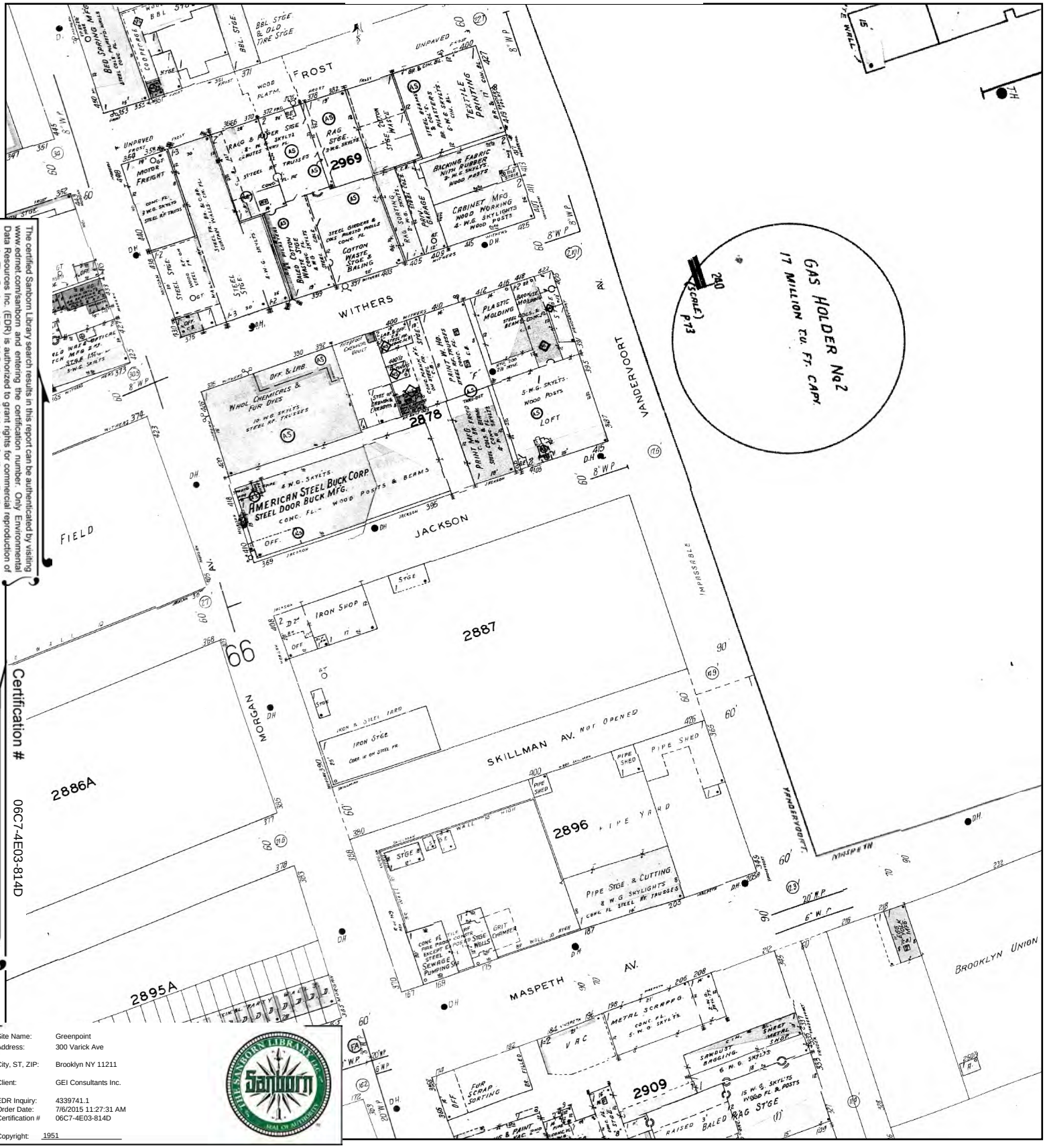
N

1951 Certified Sanborn Map



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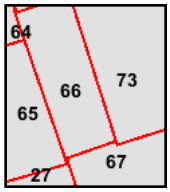

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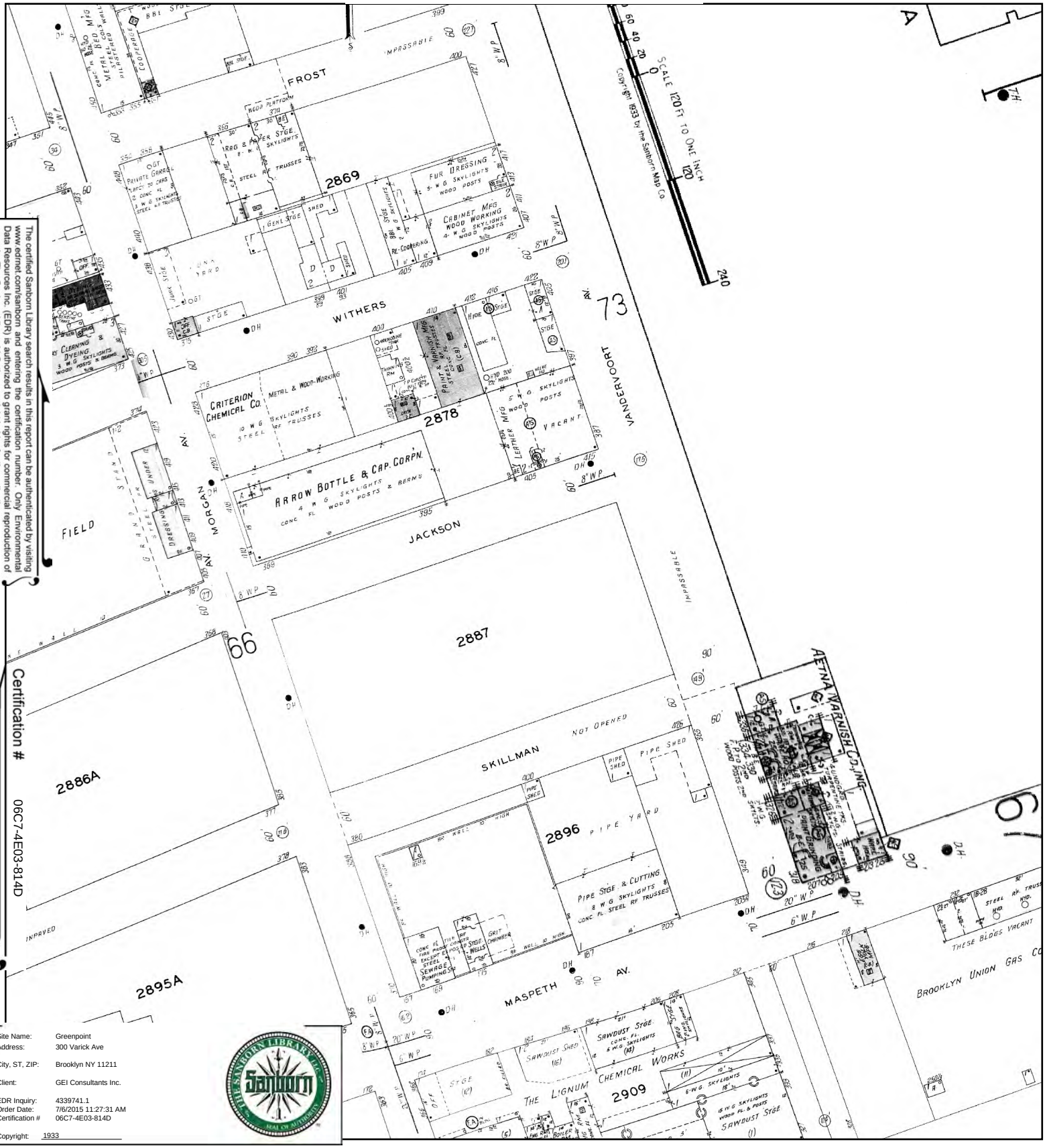
1933 Certified Sanborn Map



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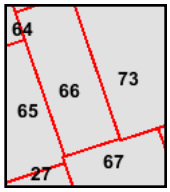

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Volume 9, Sheet 73
Volume 9, Sheet 27

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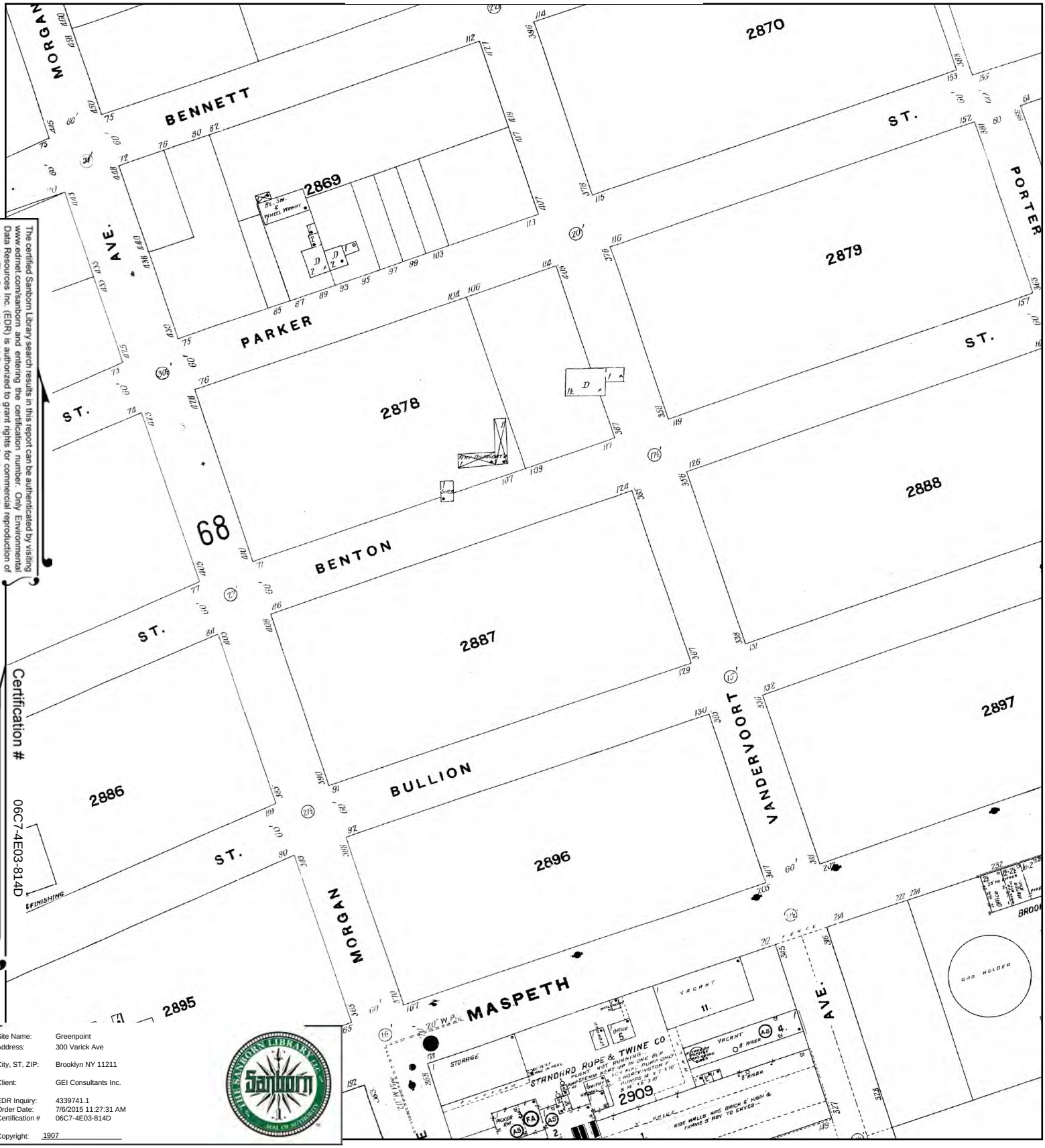
N

1907 Certified Sanborn Map



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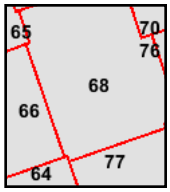

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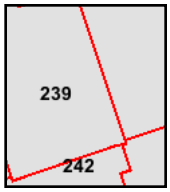

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Volume 9, Sheet 239
Volume 9, Sheet 239
Volume 9, Sheet 242

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

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July 06, 2015

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Certified Sanborn® Map Report

7/06/15

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Project: 1509790-1-1102
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Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

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- ✓ Library of Congress
- ✓ University Publications of America
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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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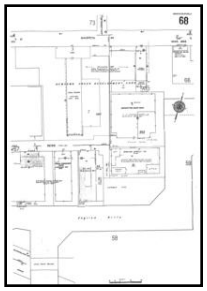

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2006 Source Sheets



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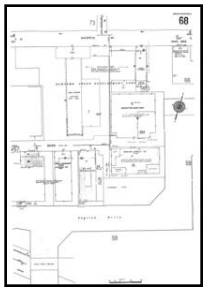

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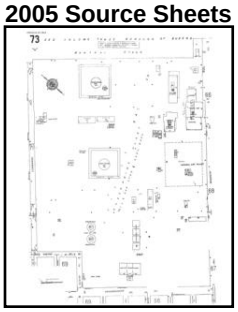
2005 Source Sheets



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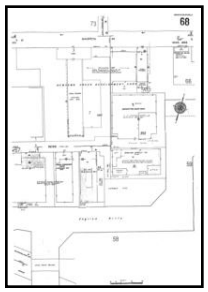

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2004 Source Sheets



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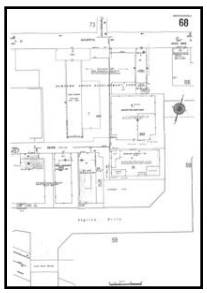

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2003 Source Sheets



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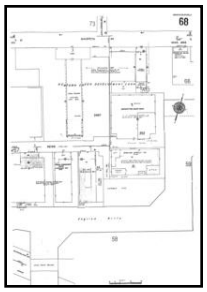

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2002 Source Sheets



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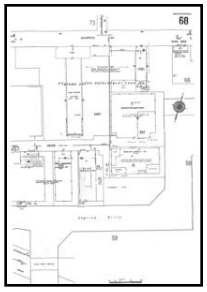

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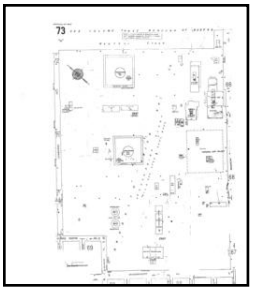

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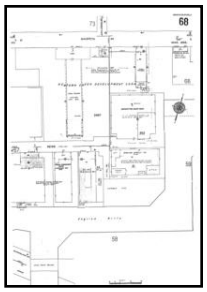

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1995 Source Sheets



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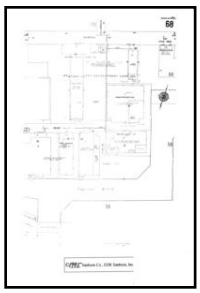

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1994 Source Sheets



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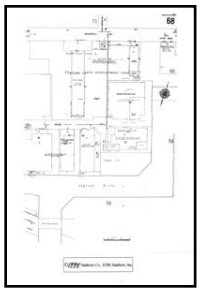

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1993 Source Sheets



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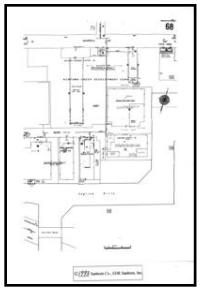

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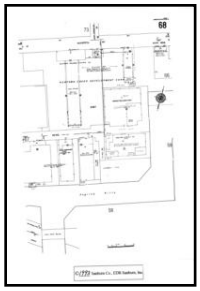

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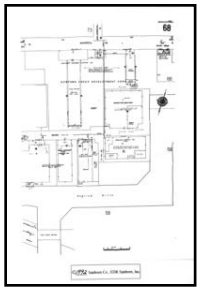

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1991 Source Sheets



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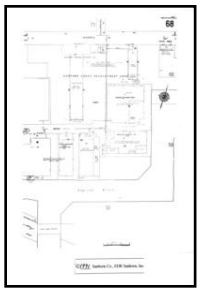

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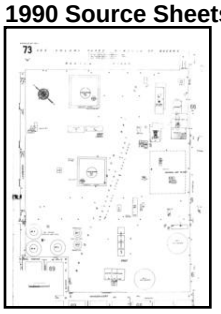
1990 Source Sheets



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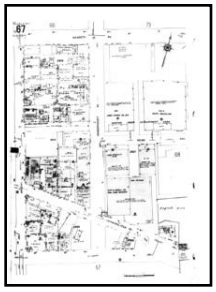

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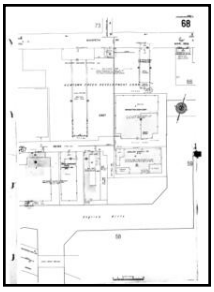

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1989 Source Sheets



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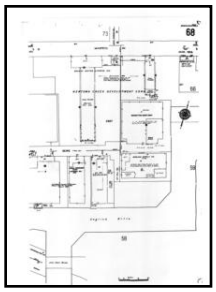

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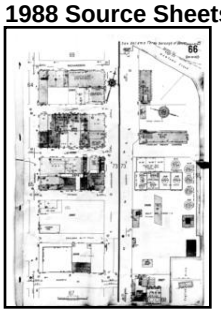

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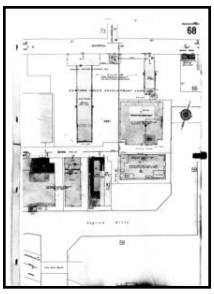

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1987 Source Sheets



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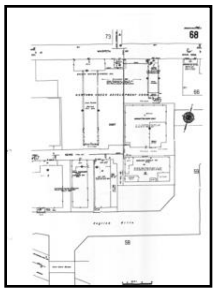

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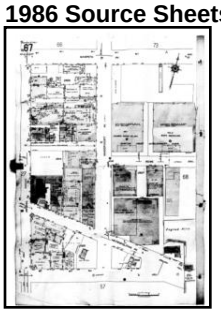

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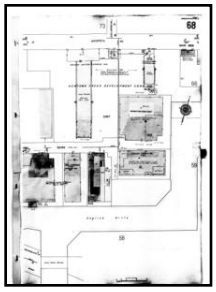

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1982 Source Sheets



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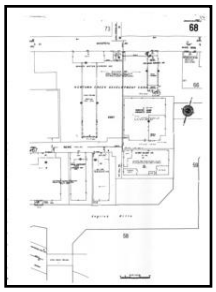

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1981 Source Sheets



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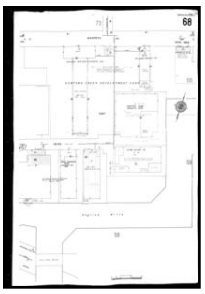

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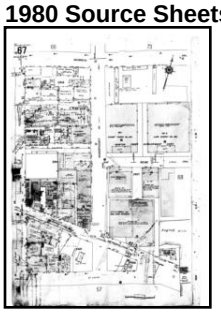

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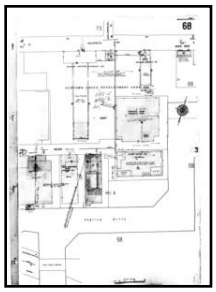

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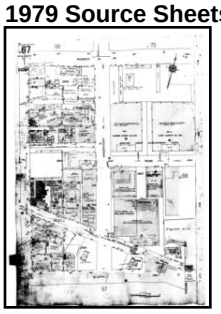

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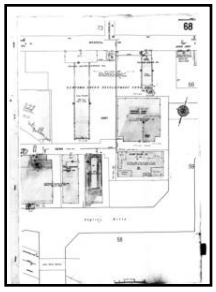

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1977 Source Sheets



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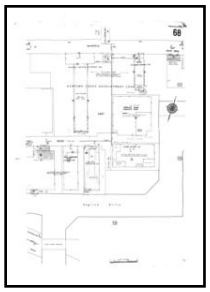

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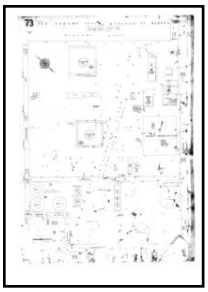

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1968 Source Sheets



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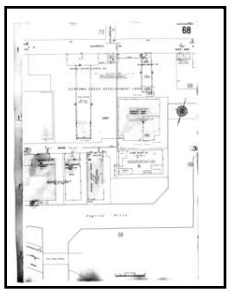

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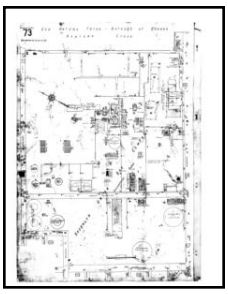

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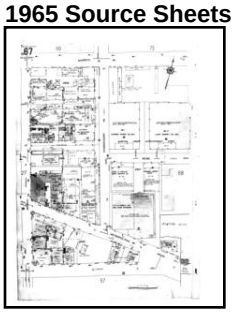

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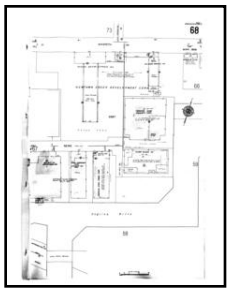

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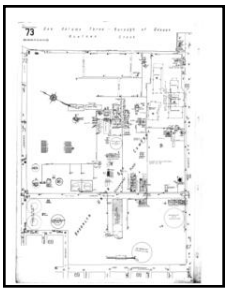

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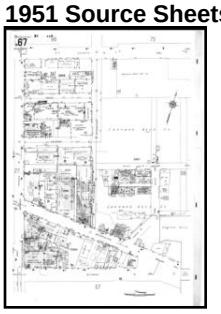

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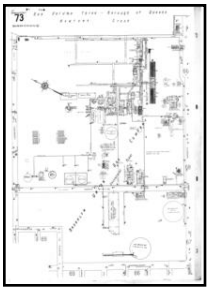

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1933 Source Sheets



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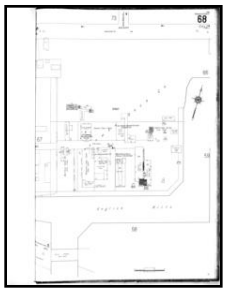

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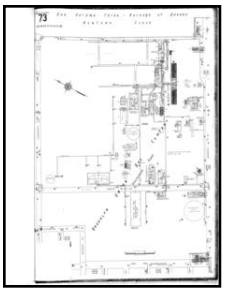

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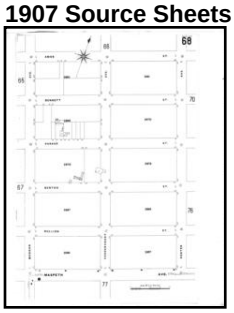

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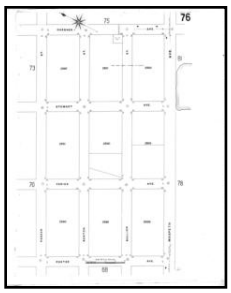

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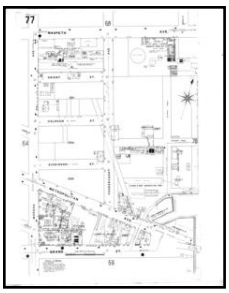

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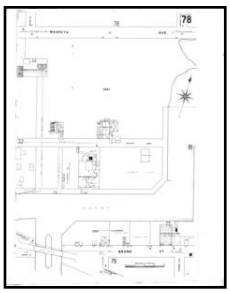

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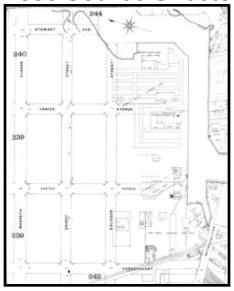
1888 Source Sheets



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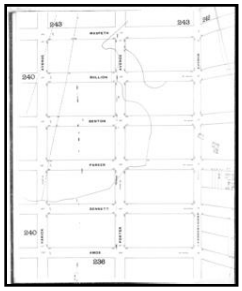

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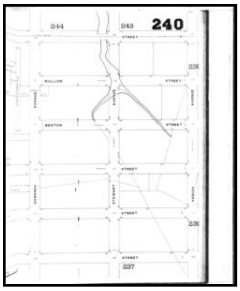

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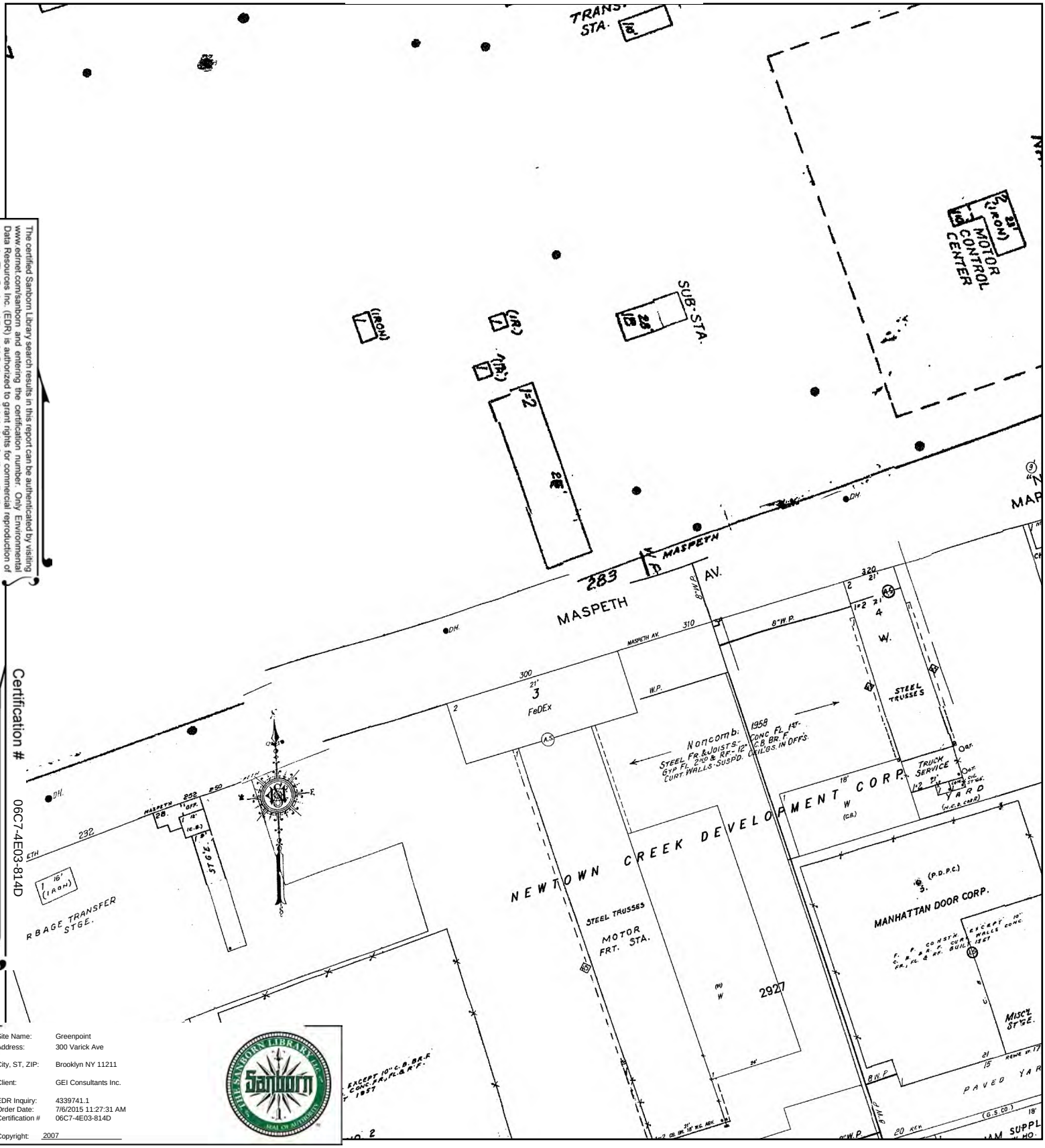
2007 Certified Sanborn Map



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Certification # 06C7-4E03-814D

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Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
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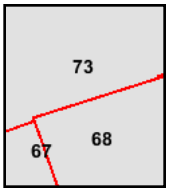
Outlined areas indicate map sheets within the collection.





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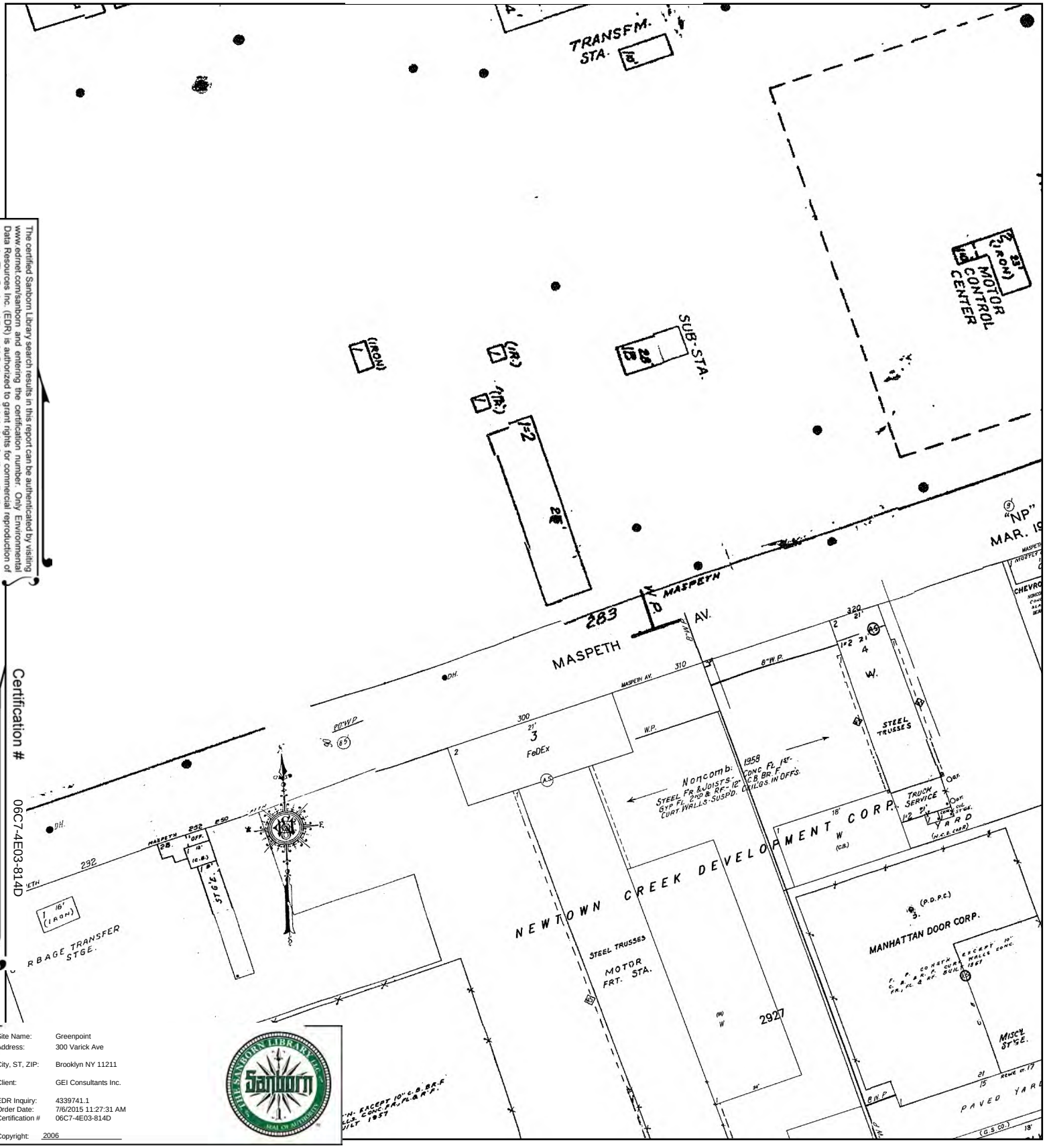
2006 Certified Sanborn Map



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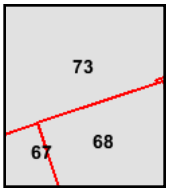

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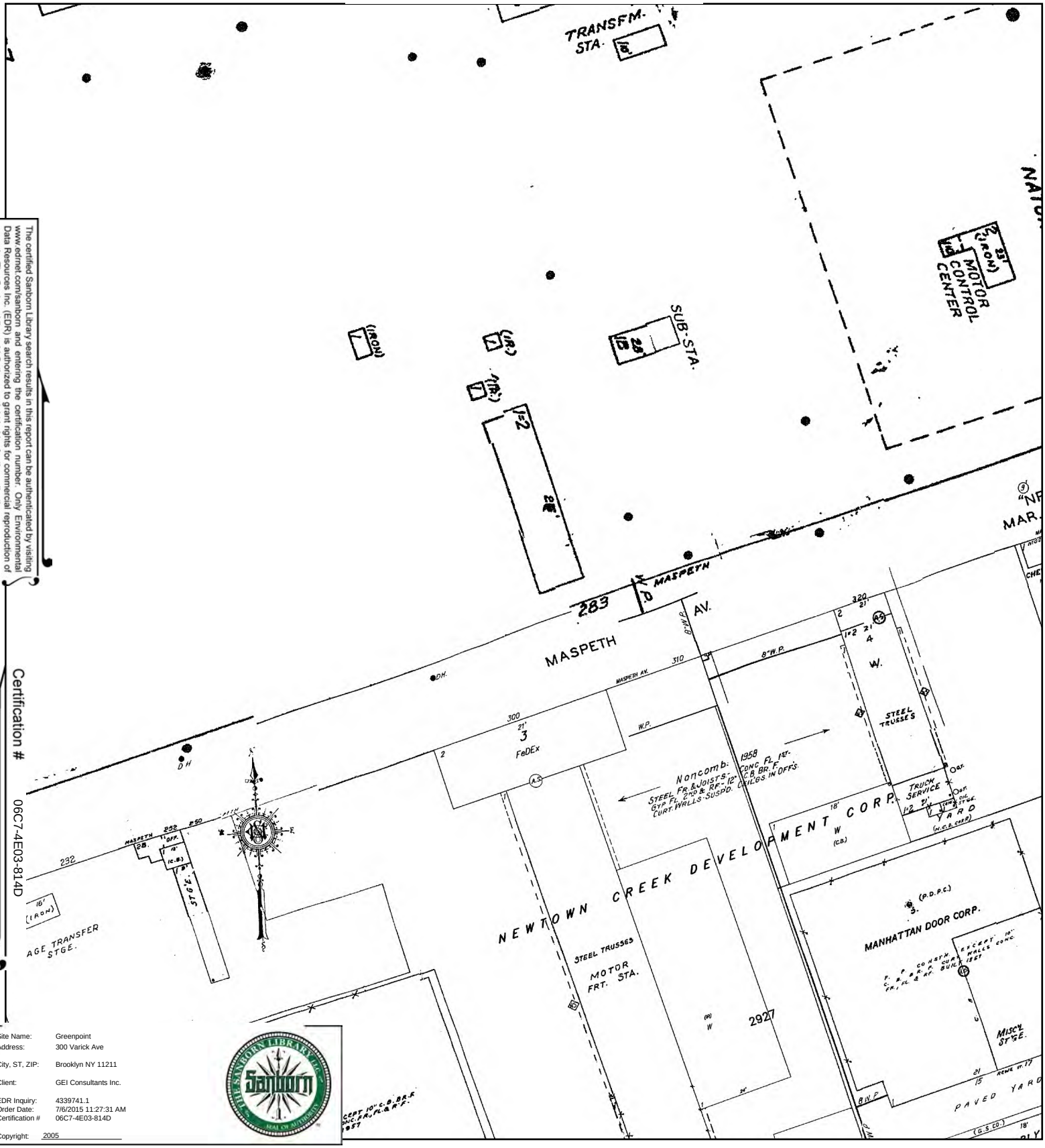
2005 Certified Sanborn Map



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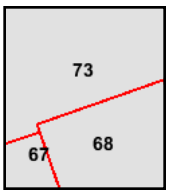

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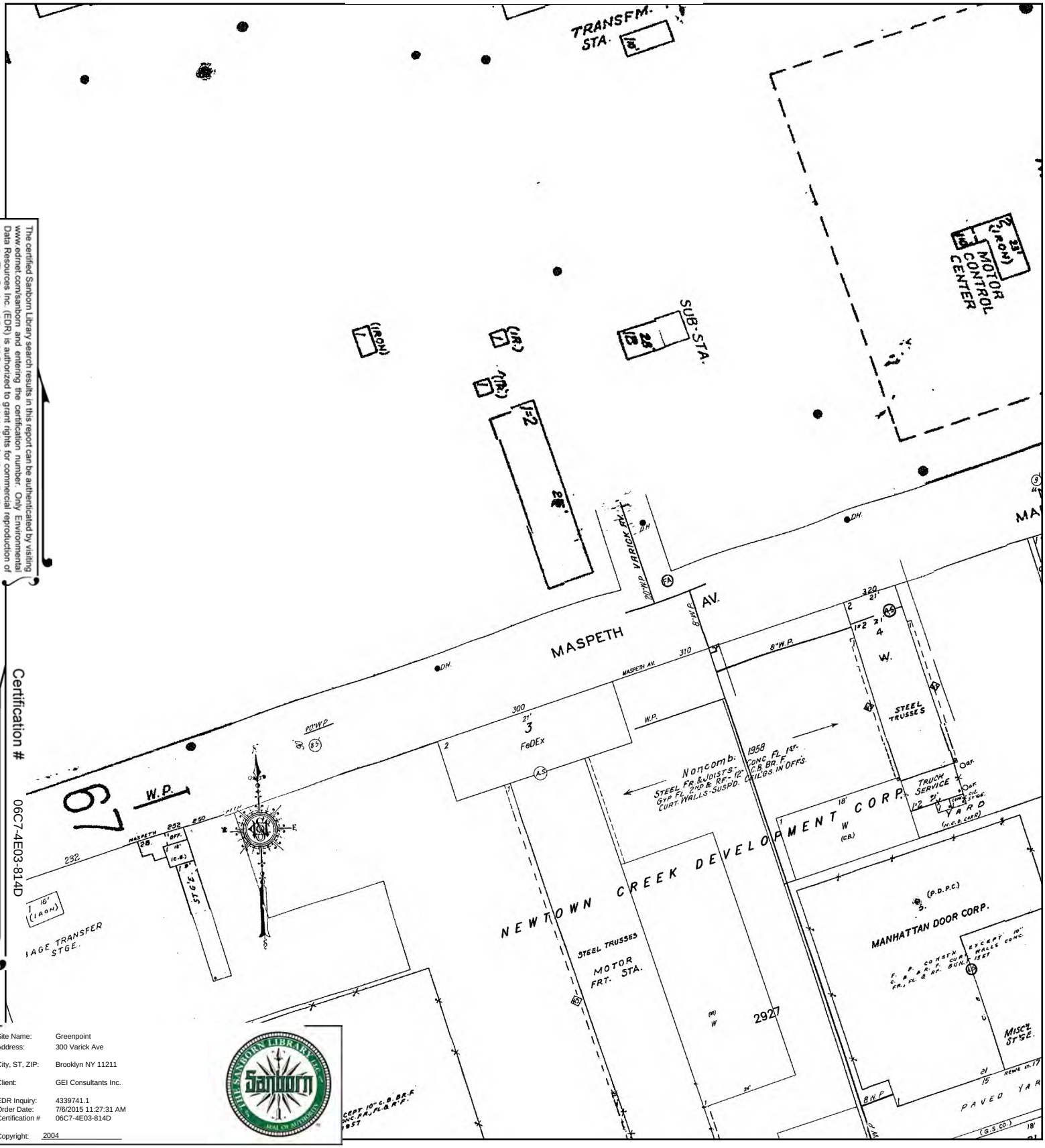

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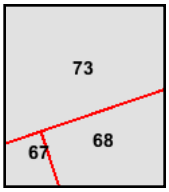

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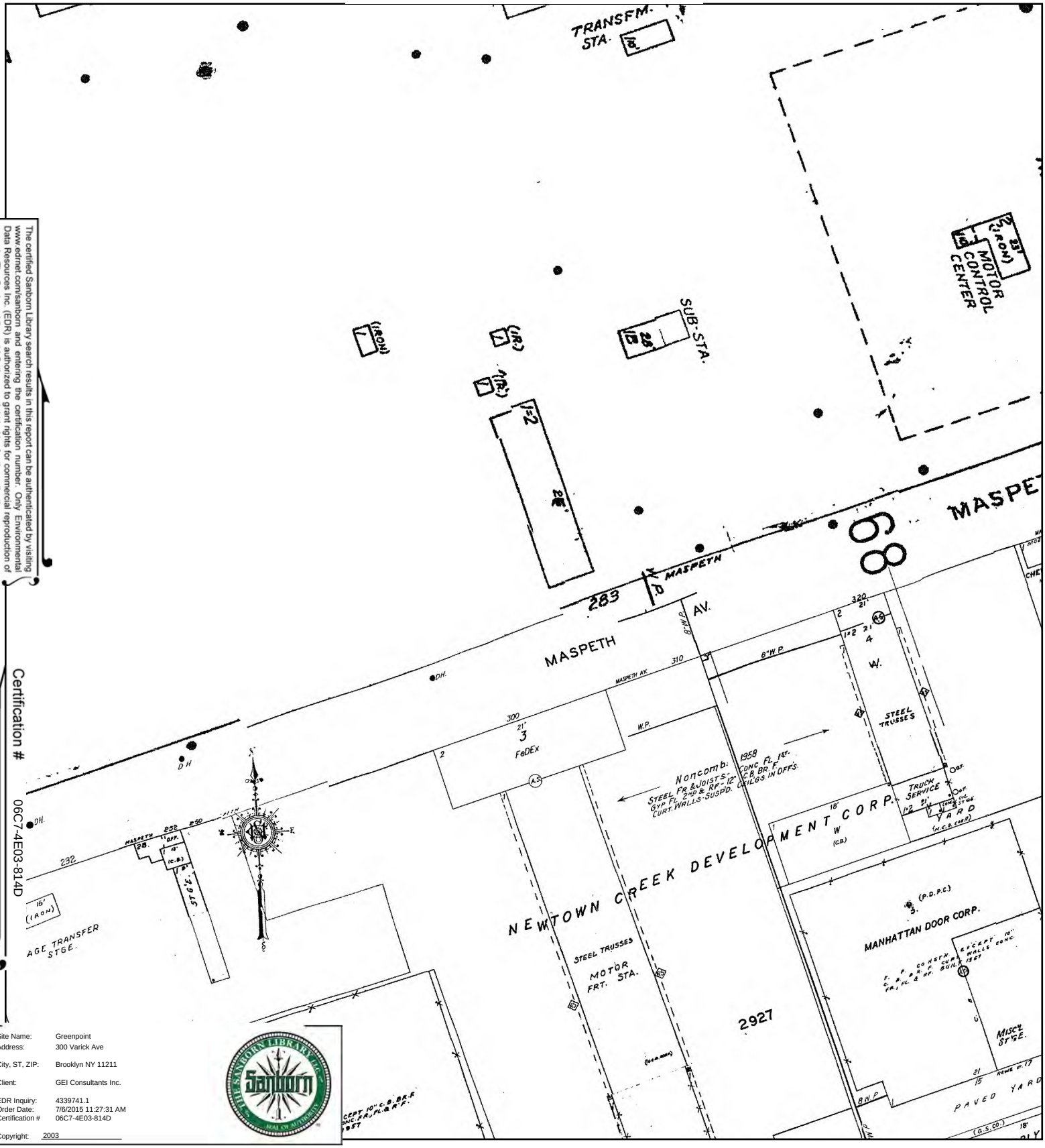

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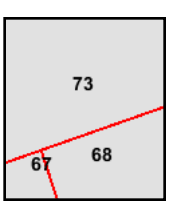

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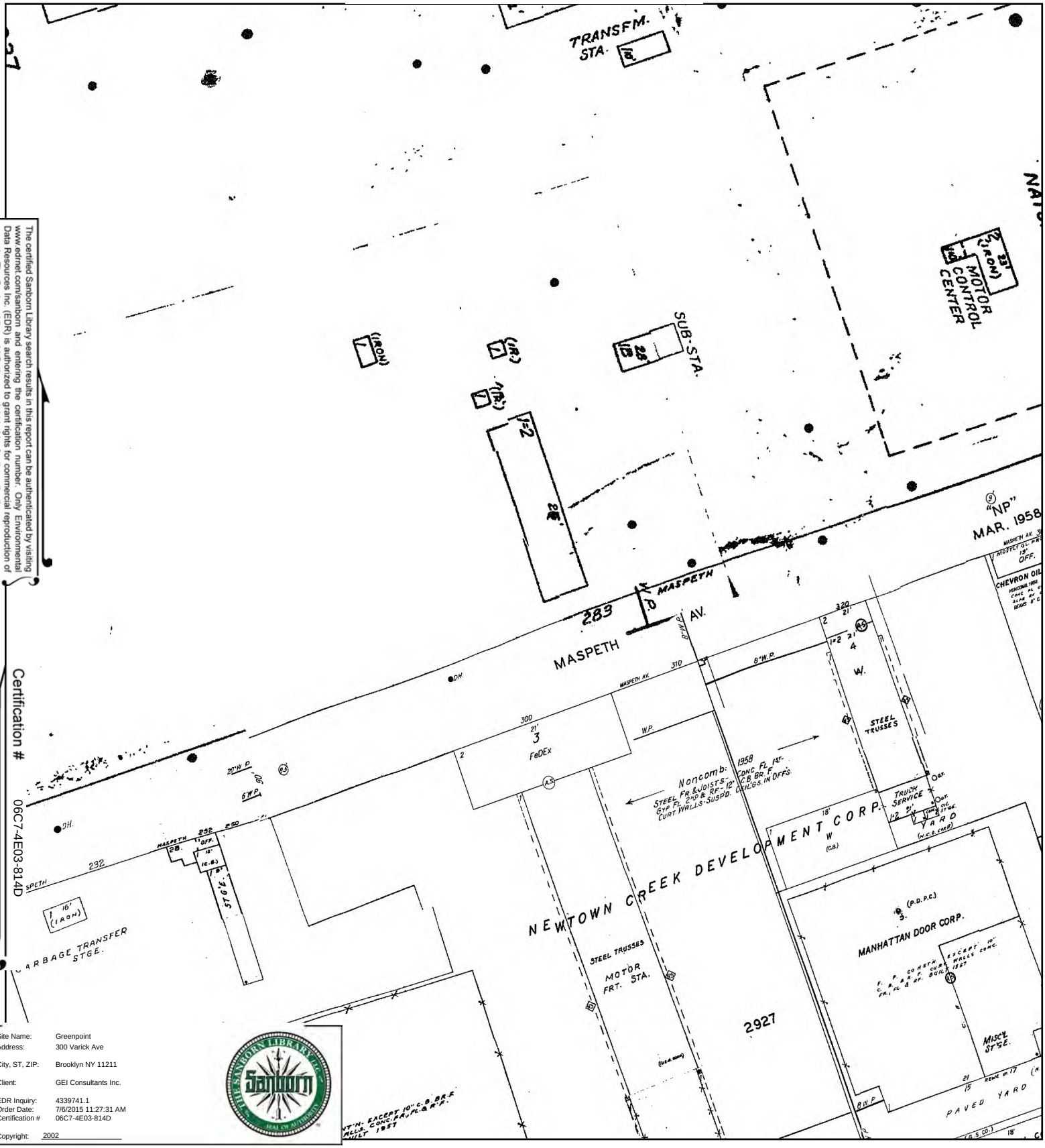
2002 Certified Sanborn Map



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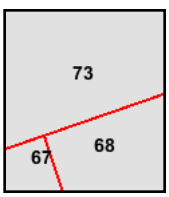

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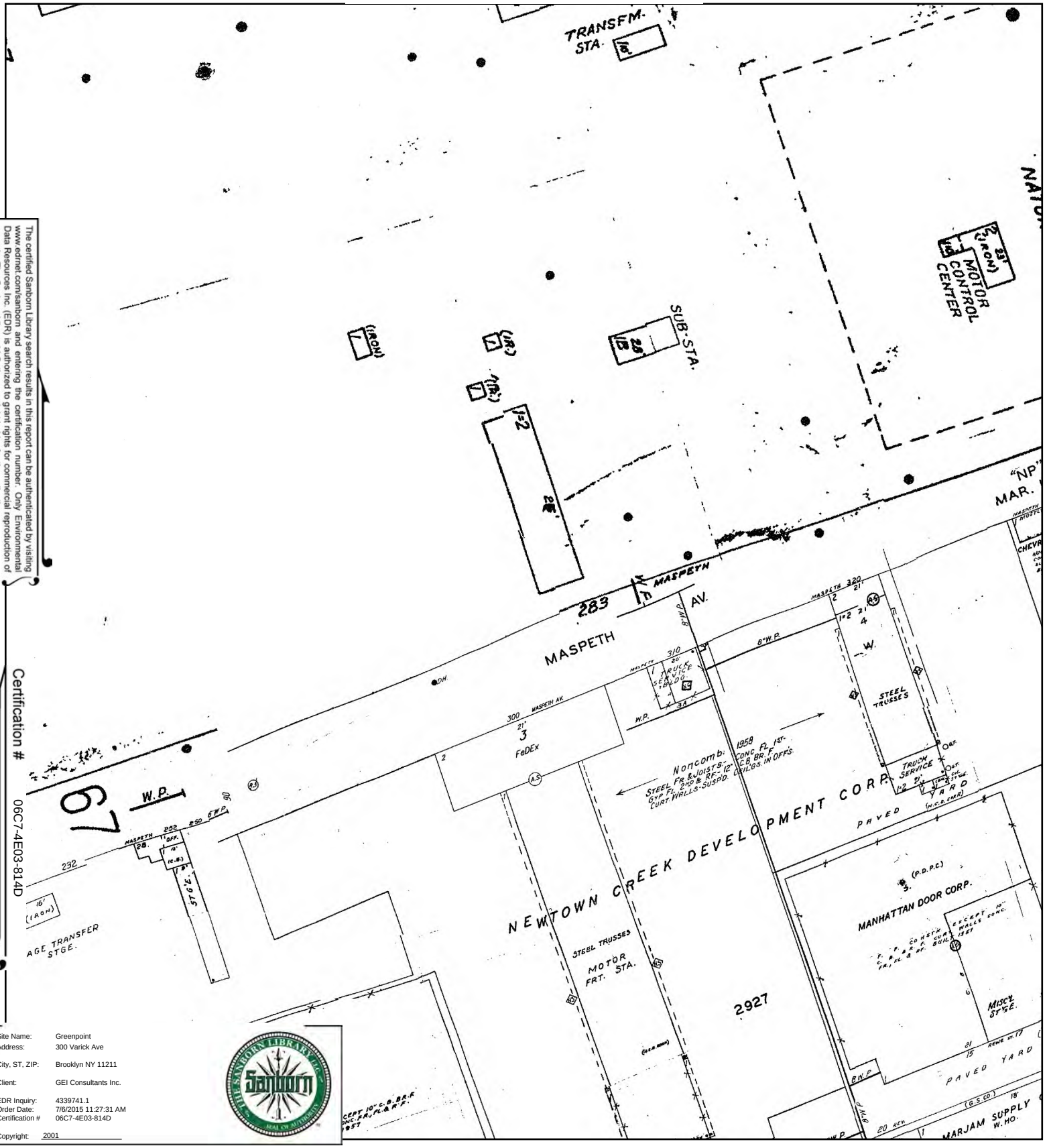
2001 Certified Sanborn Map



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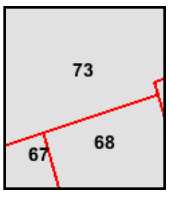

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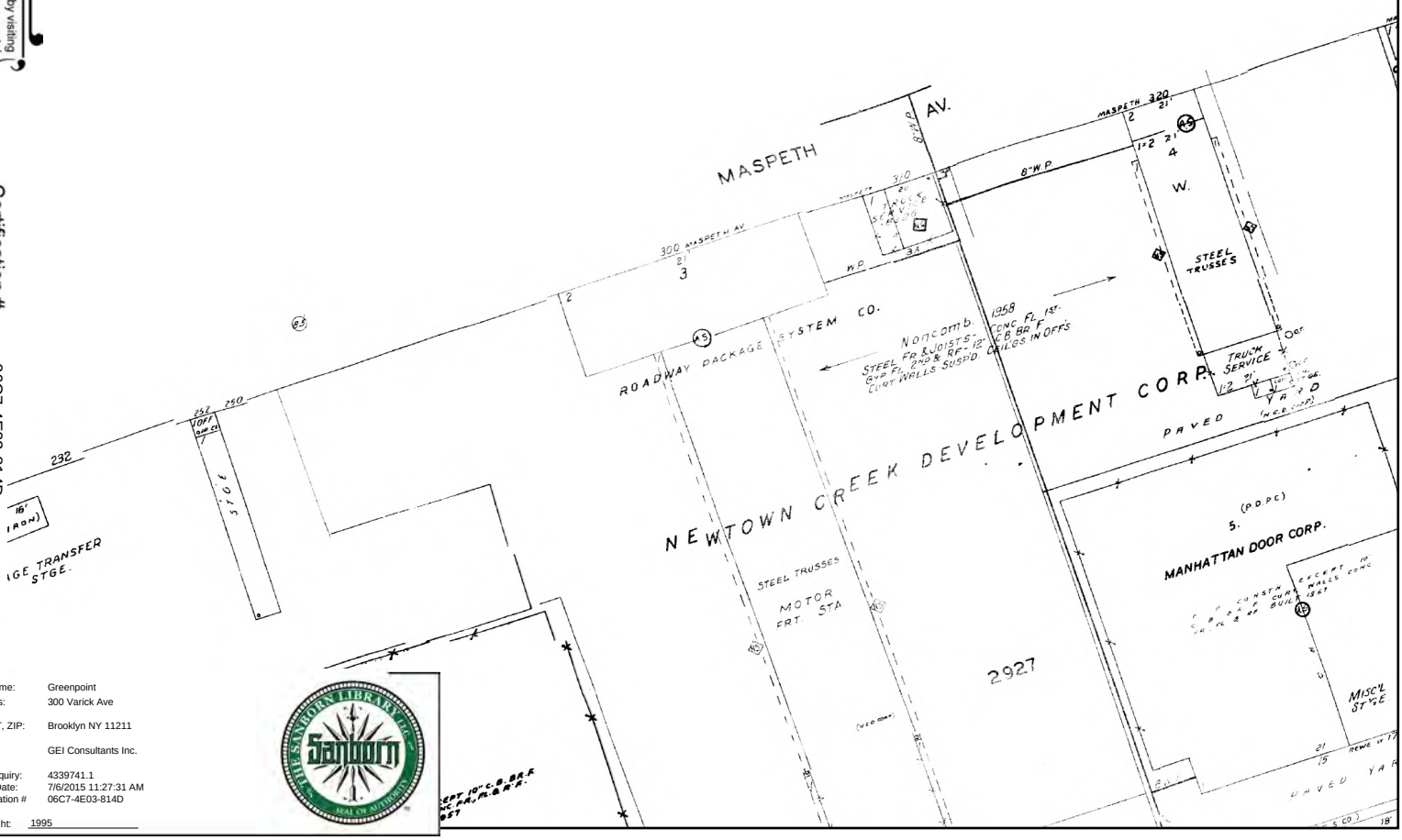

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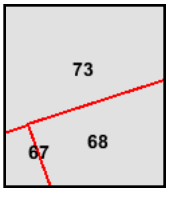

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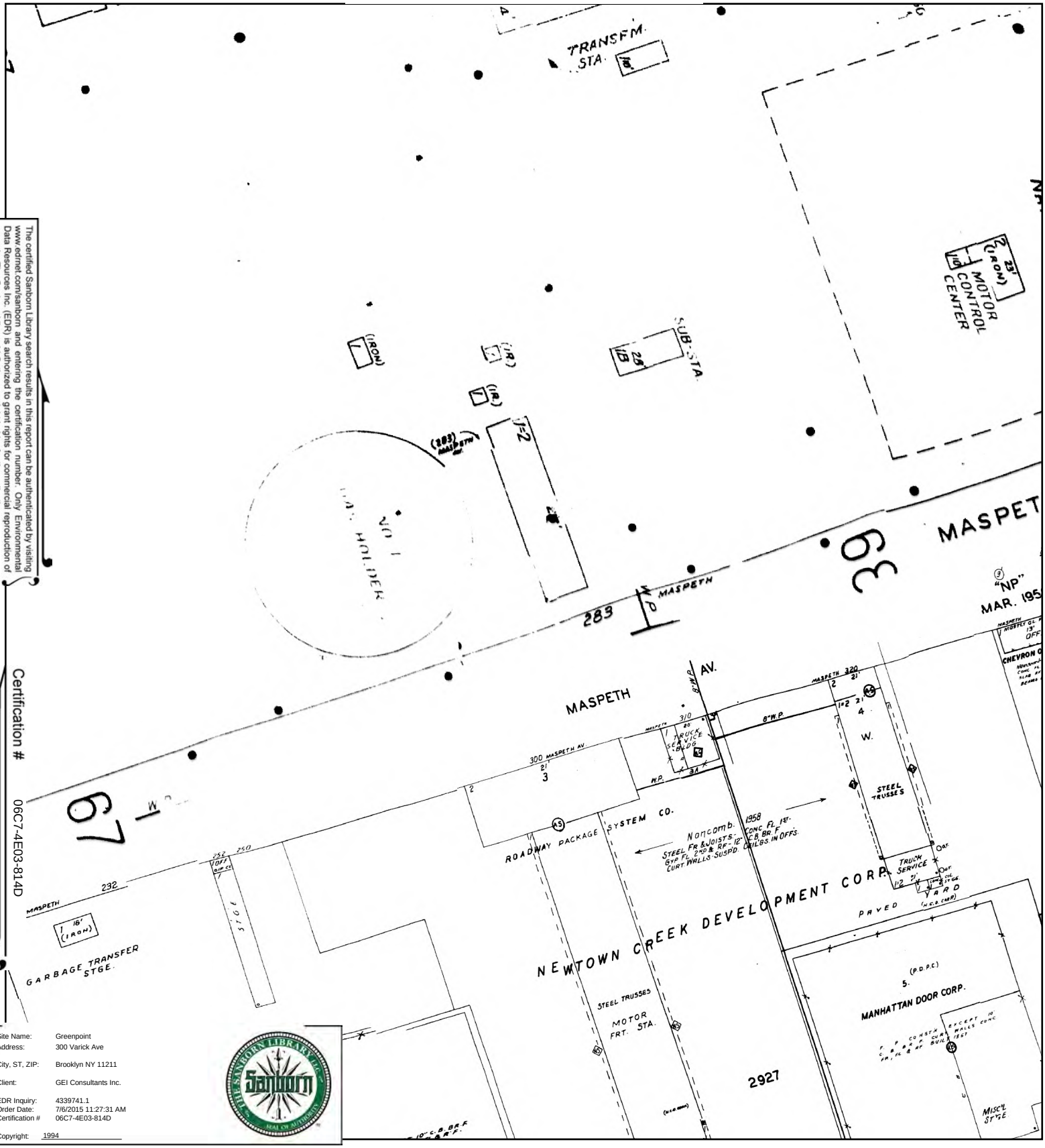
1994 Certified Sanborn Map



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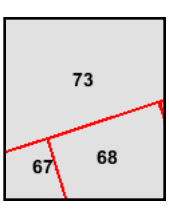

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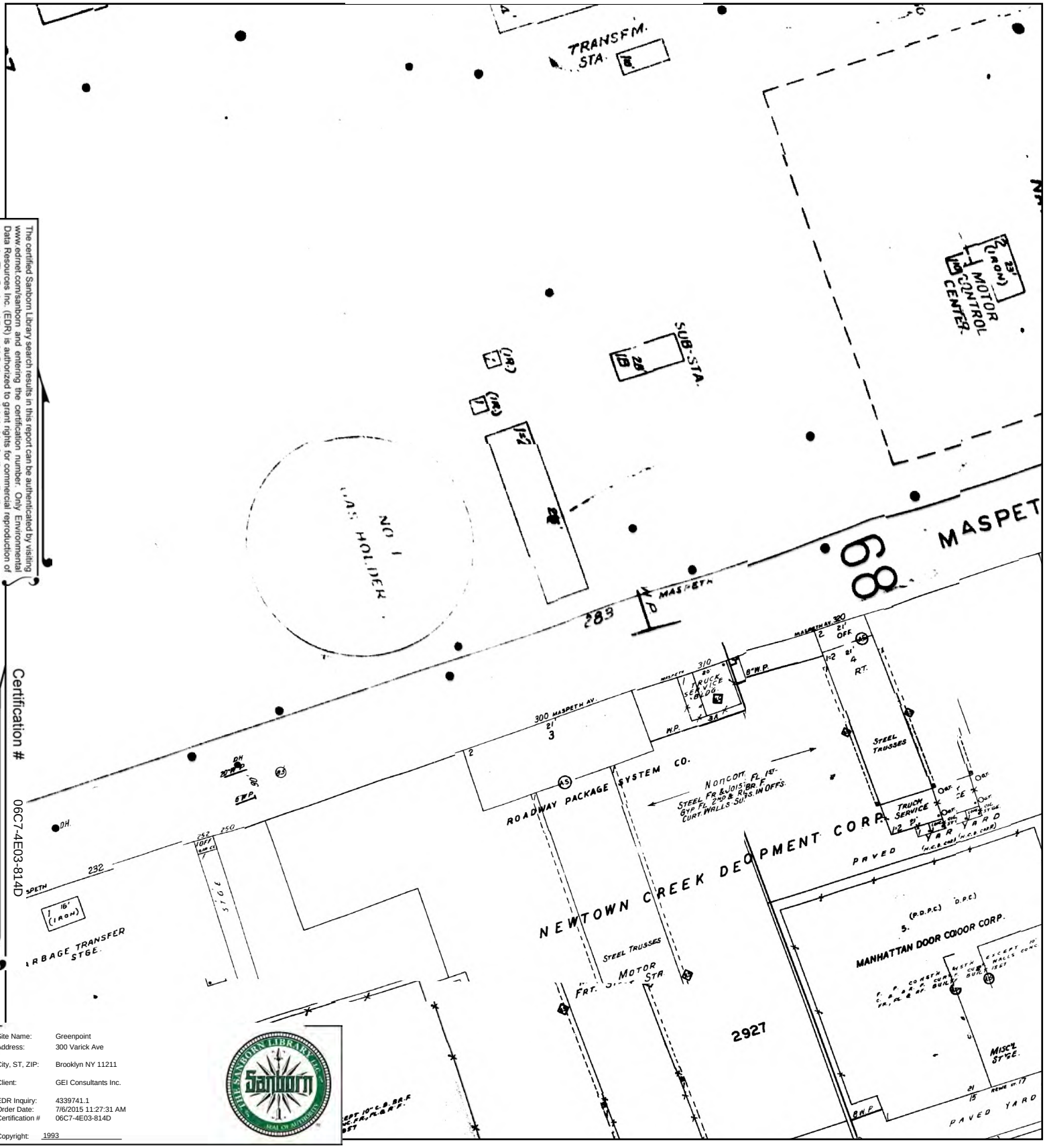

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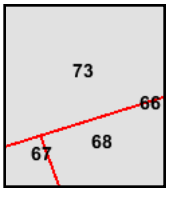

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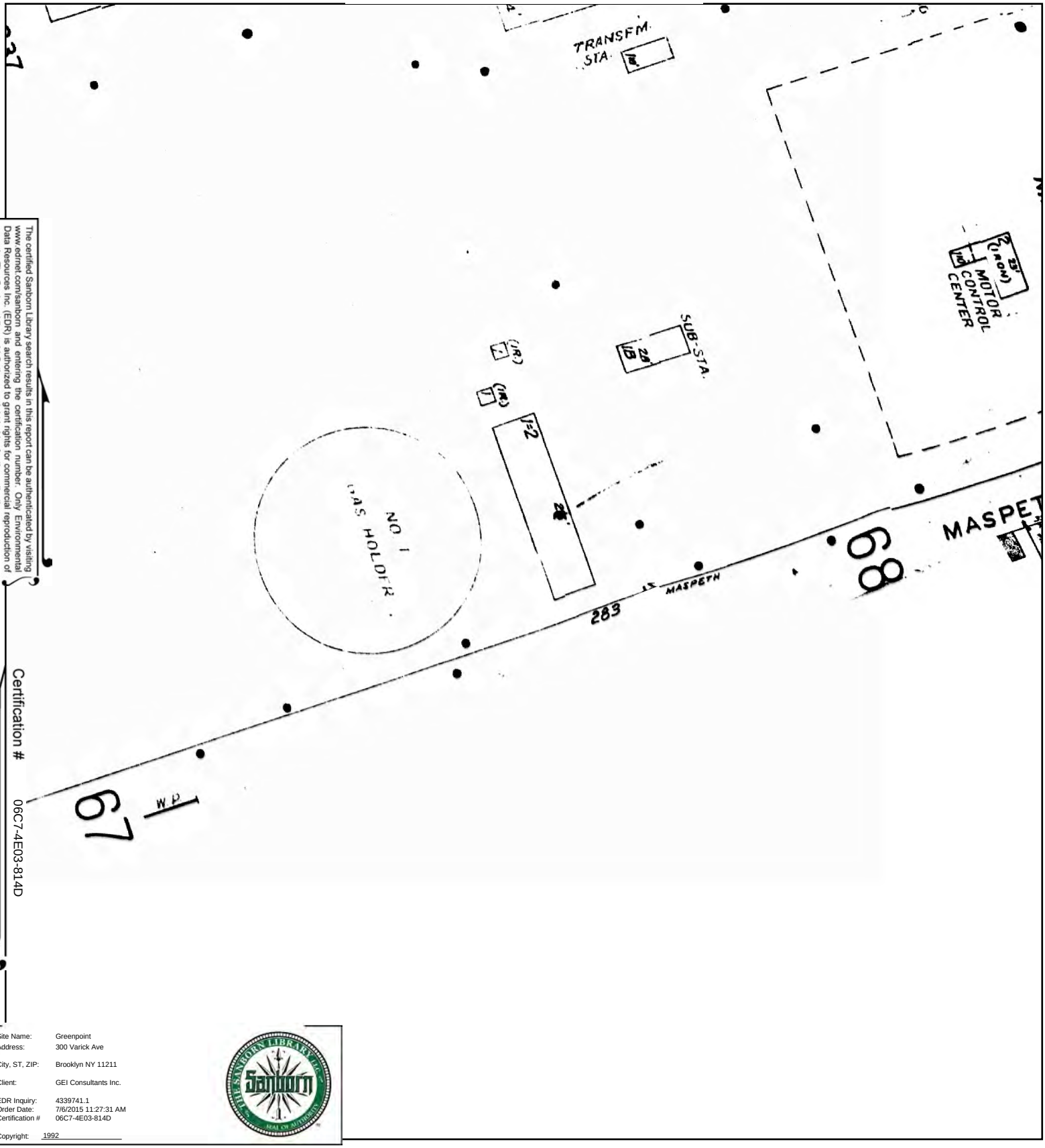
1992 Certified Sanborn Map



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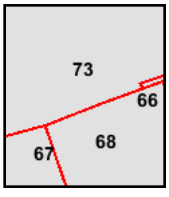

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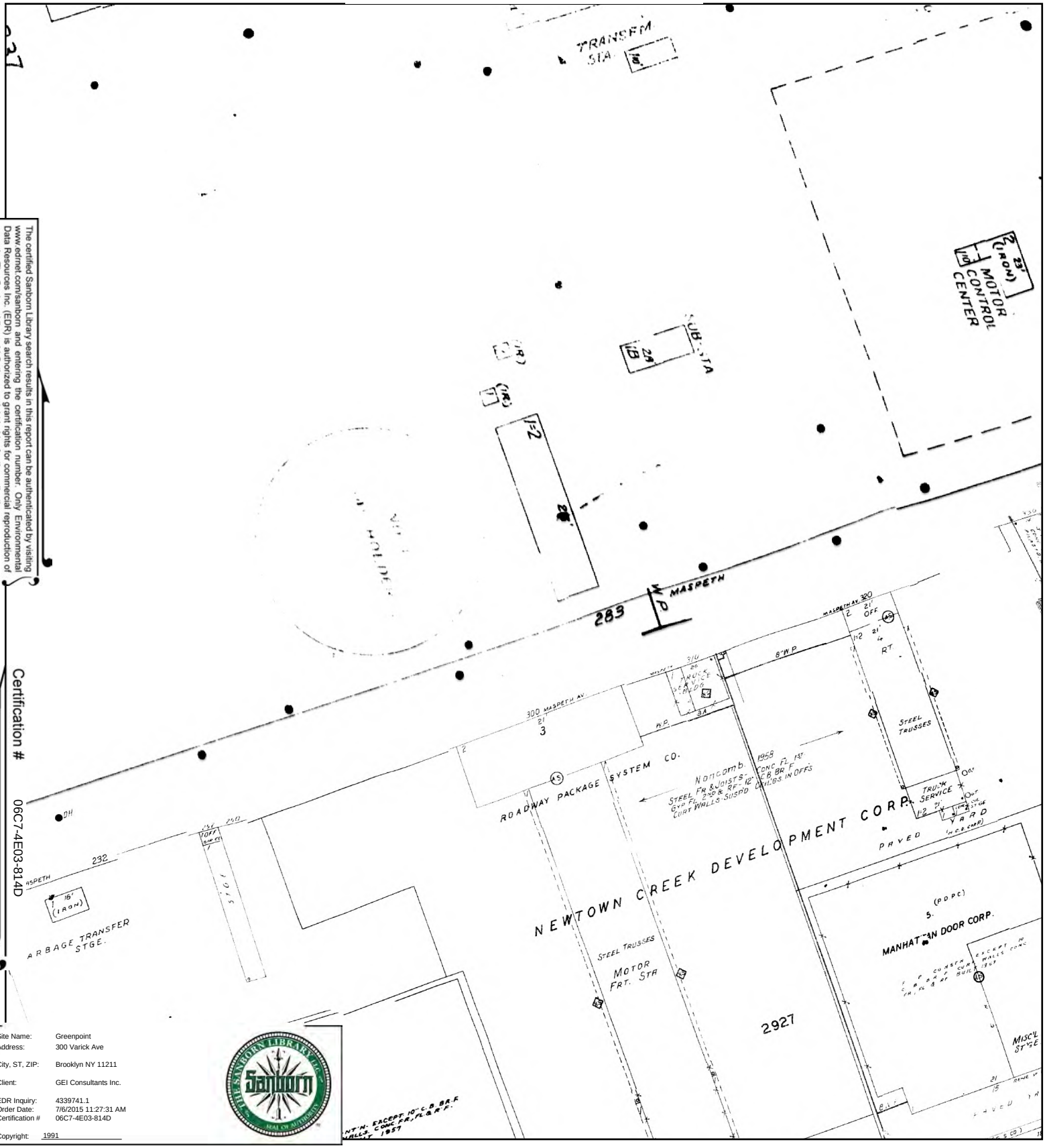

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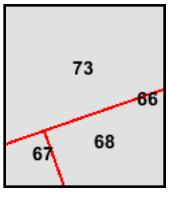

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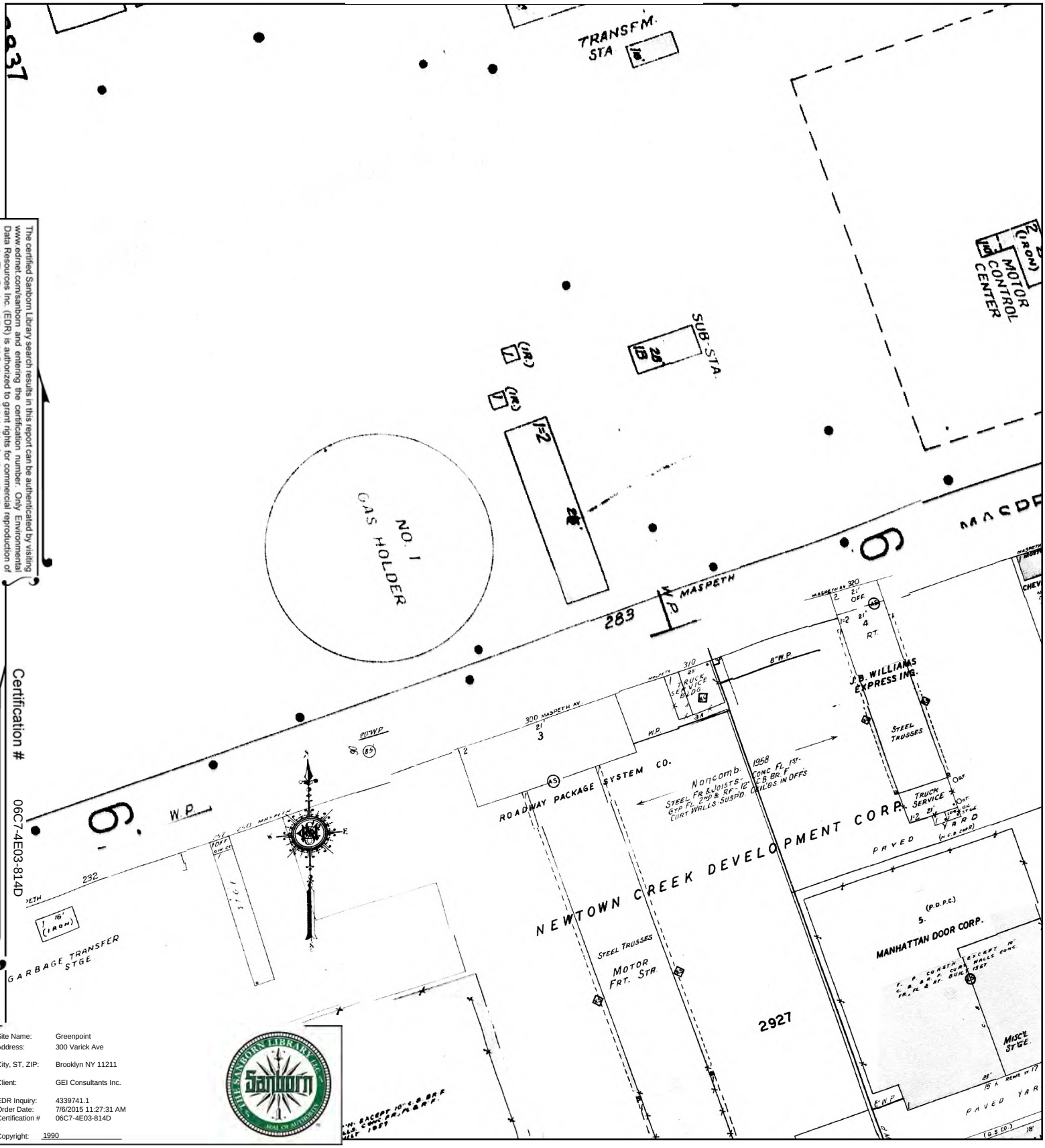

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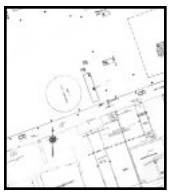

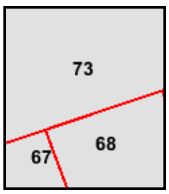

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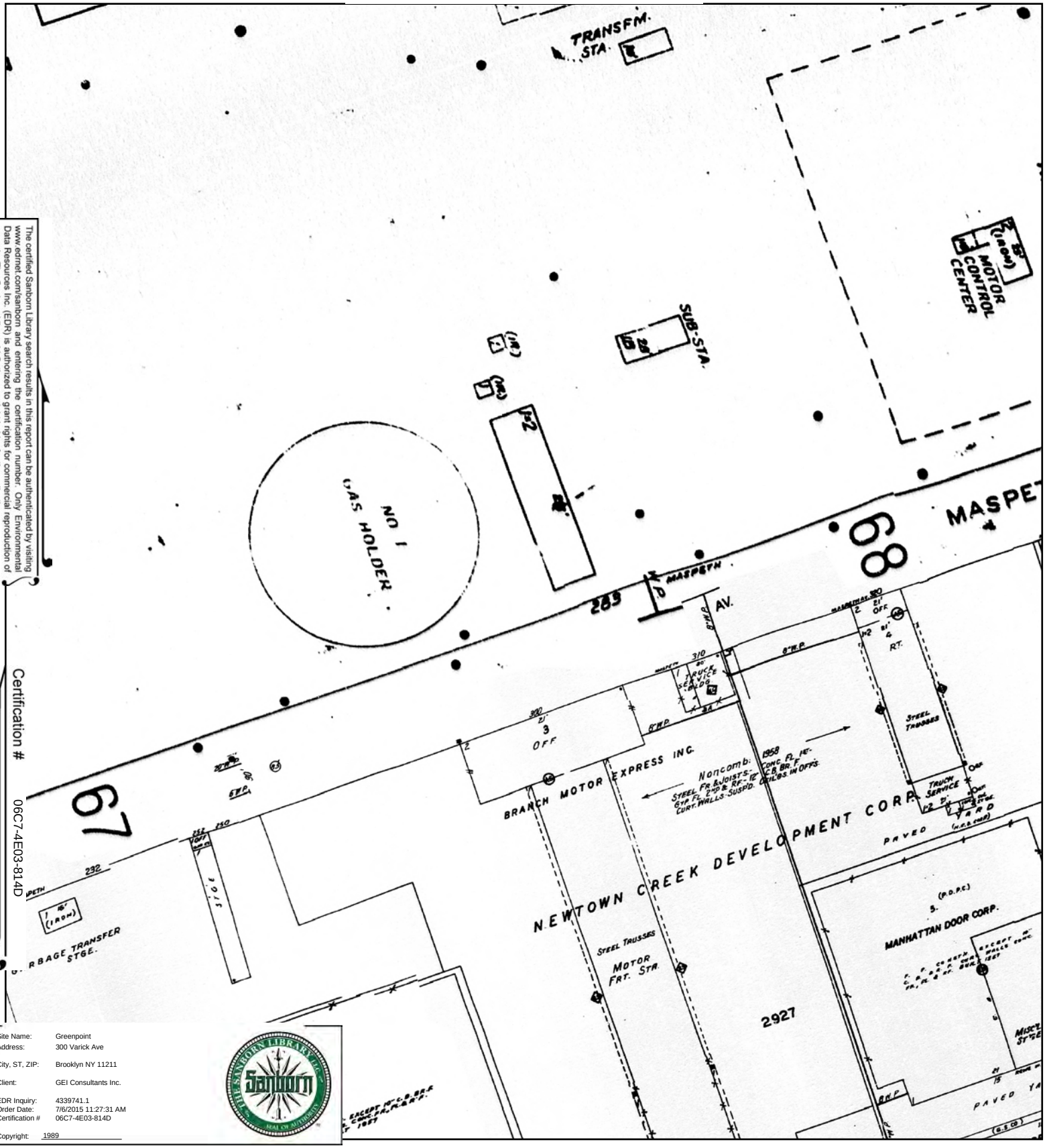

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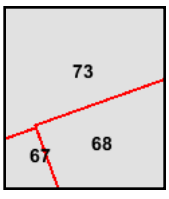

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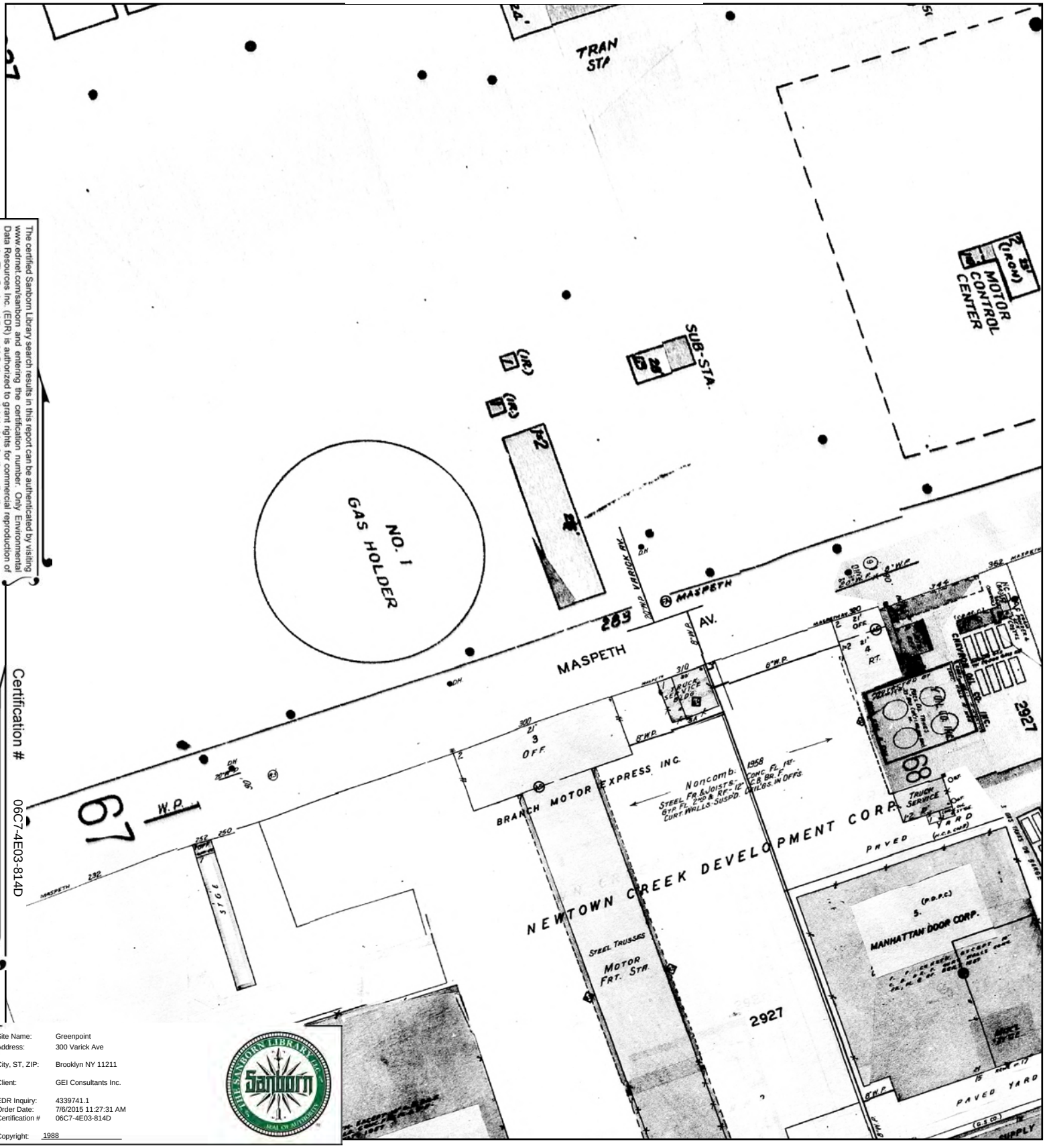
1988 Certified Sanborn Map



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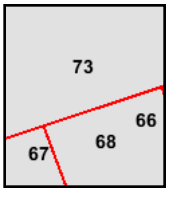

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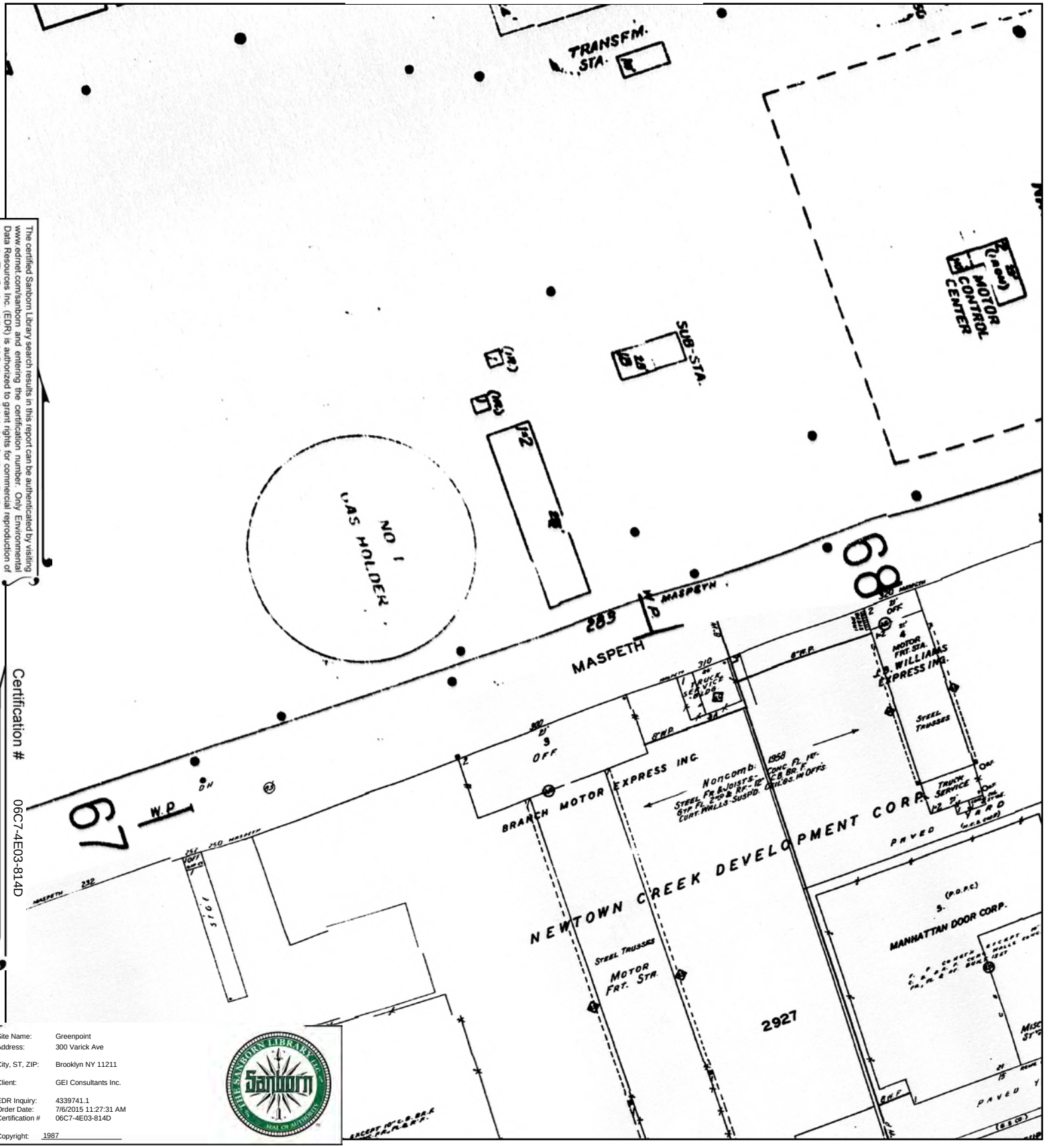

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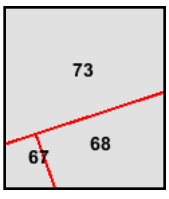

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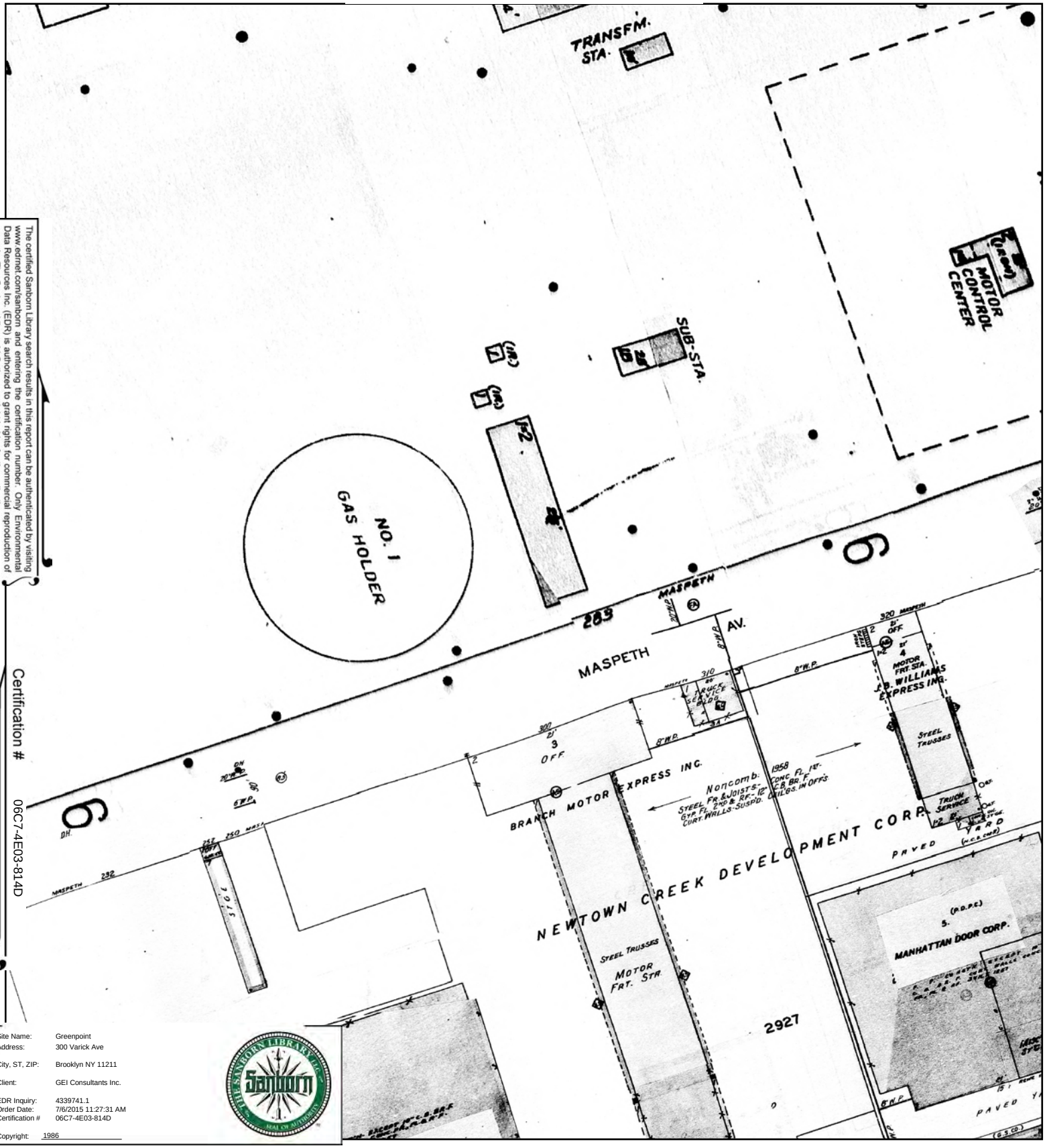
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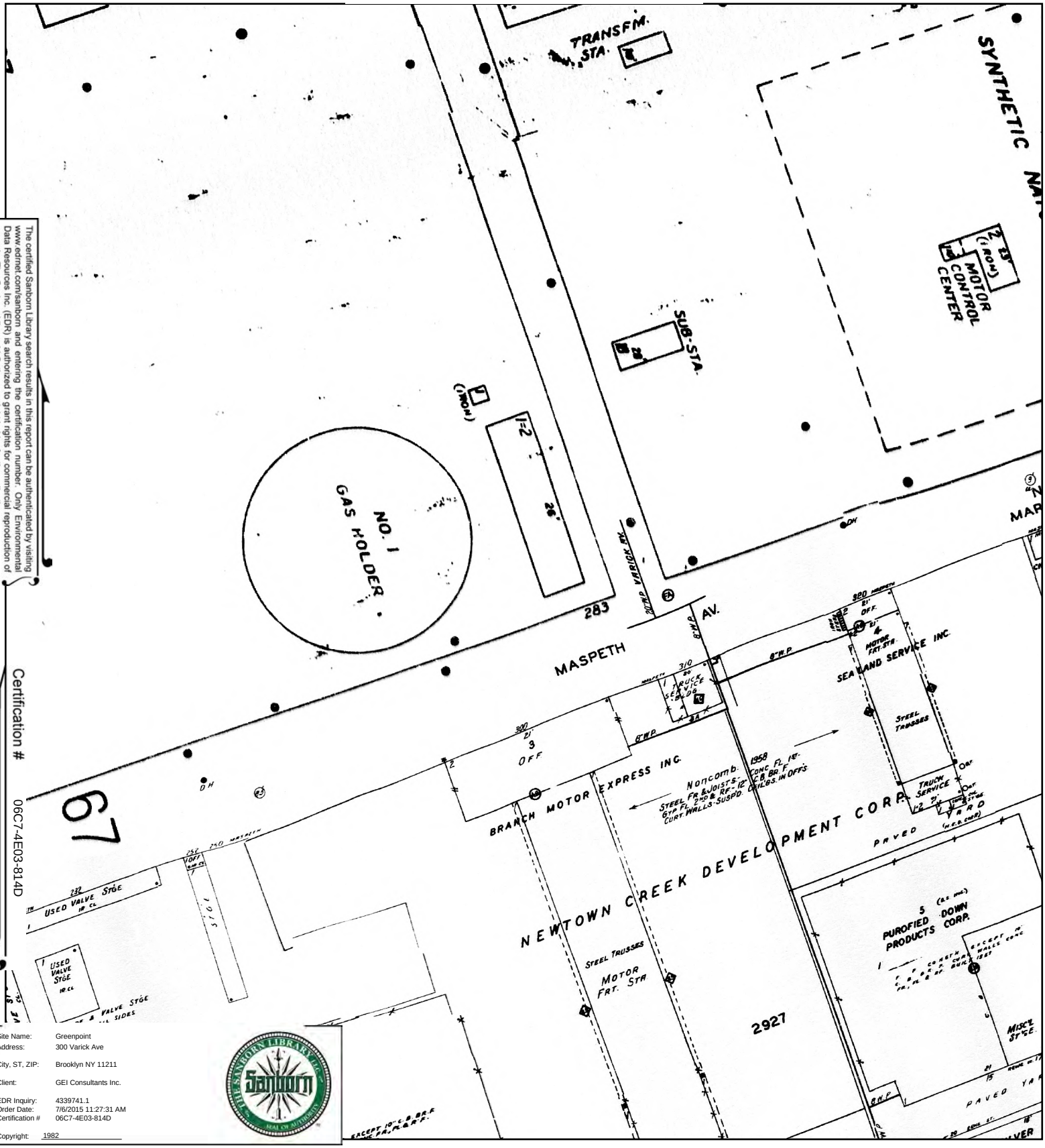
BRANCH MOTOR EXPRESS INC.
NEWTOWN CREEK DEVELOPMENT CORP.
MANHATTAN DOOR CORP.
STEEL TRUSSES
MOTOR FRT. STA.
2927
6
6
6

1982 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Certification #	06C7-4E03-814D
Copyright:	1982

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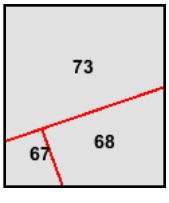

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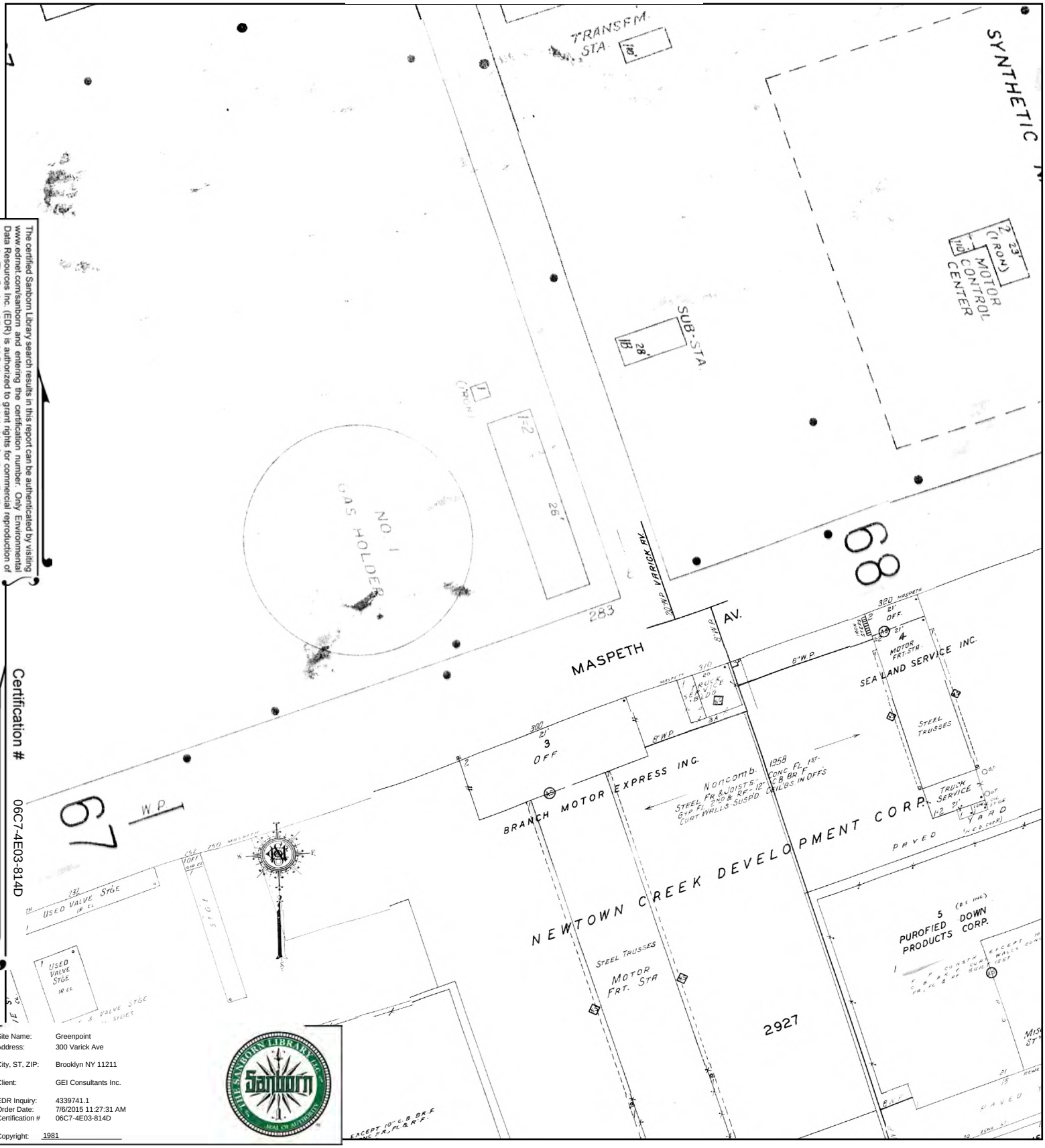
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1981 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1981

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Volume 9, Sheet 73
Volume 9, Sheet 67
Volume 9, Sheet 68

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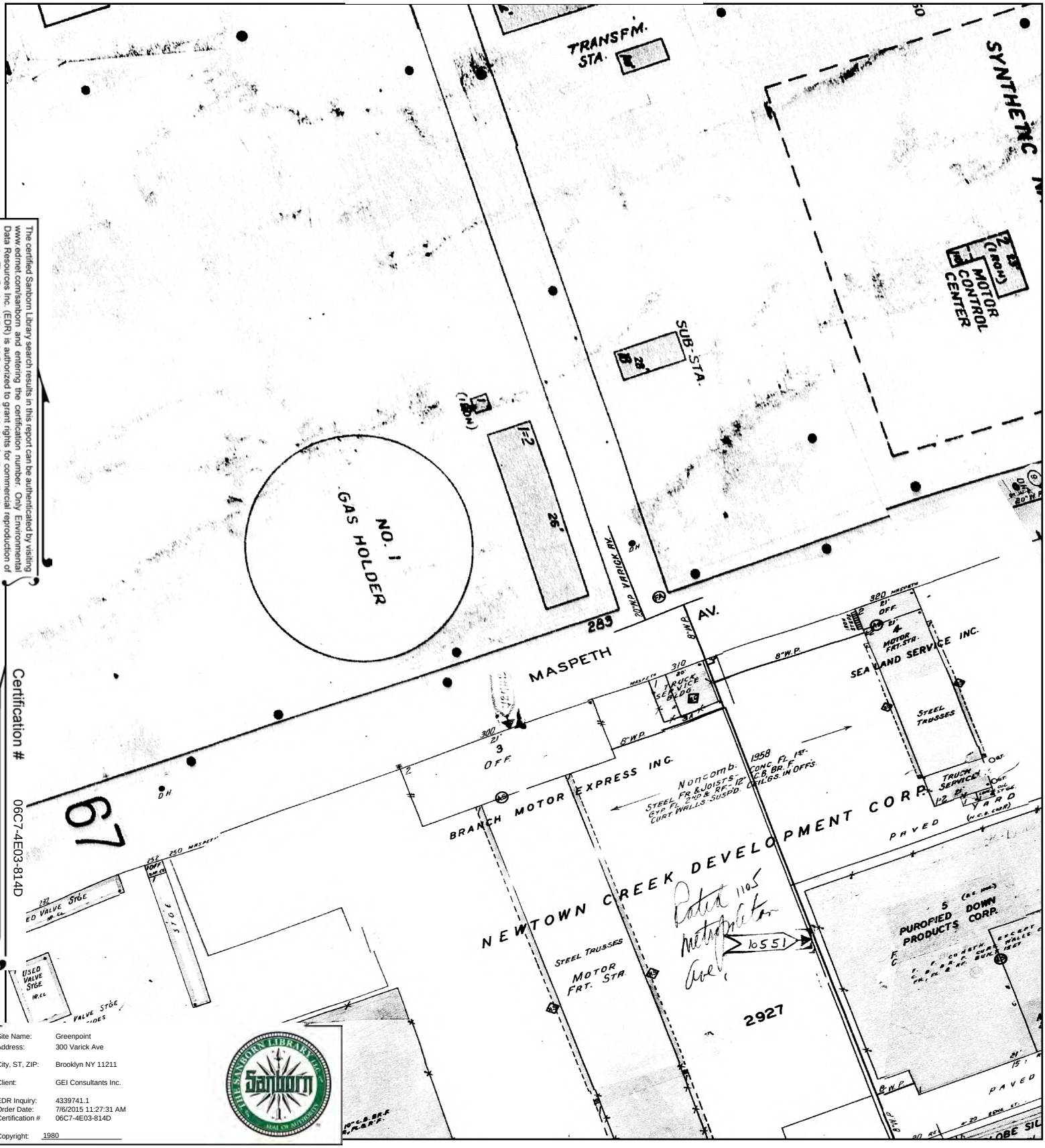
1980 Certified Sanborn Map



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Client:	GEI Consultants Inc.
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Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
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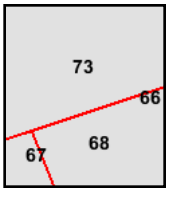

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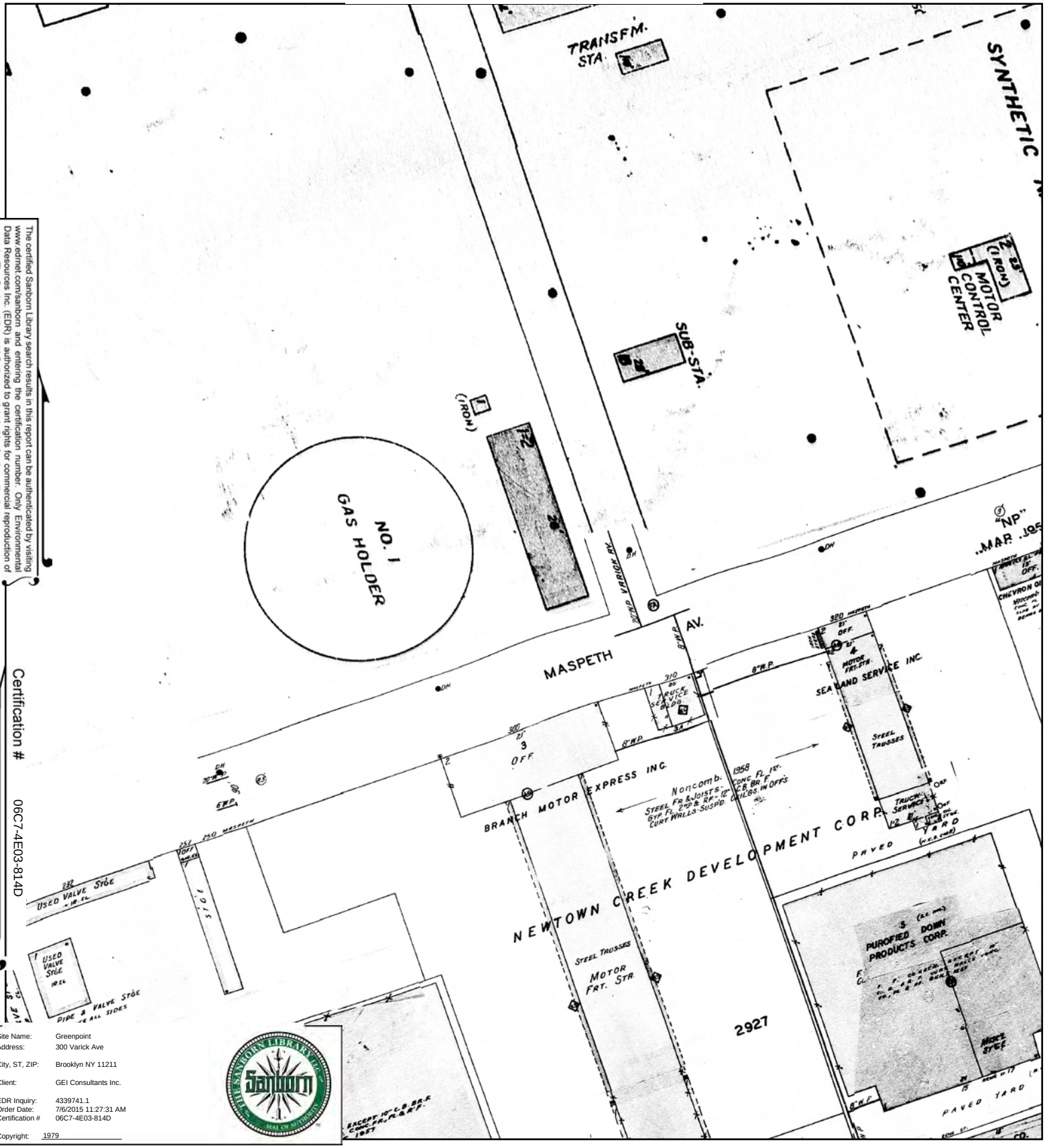
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1979 Certified Sanborn Map



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Client:	GEI Consultants Inc.
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Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1979

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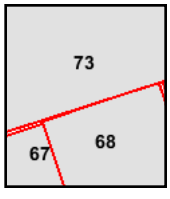

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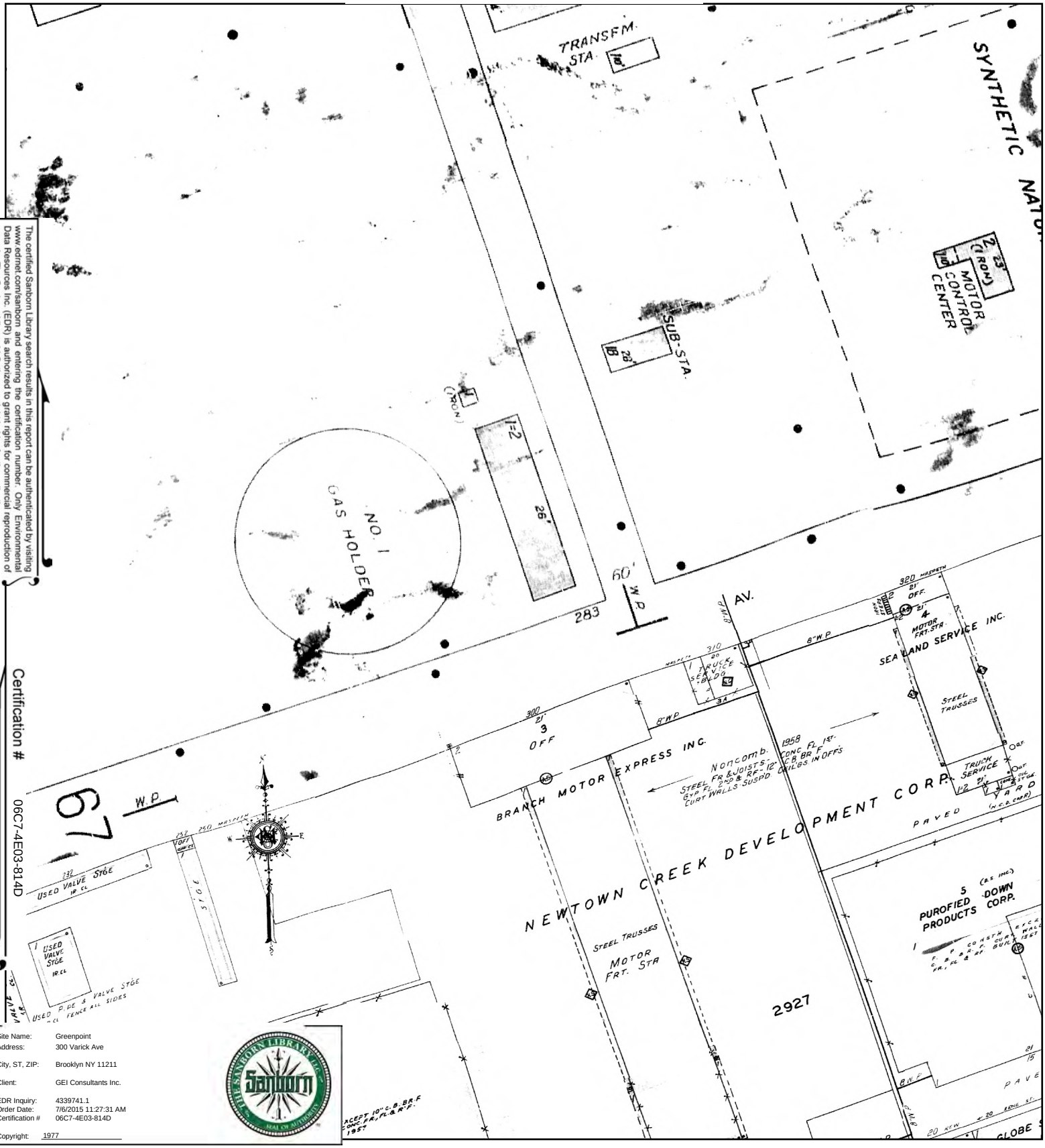
Volume 9, Sheet 73

N

1977 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1977

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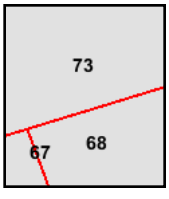

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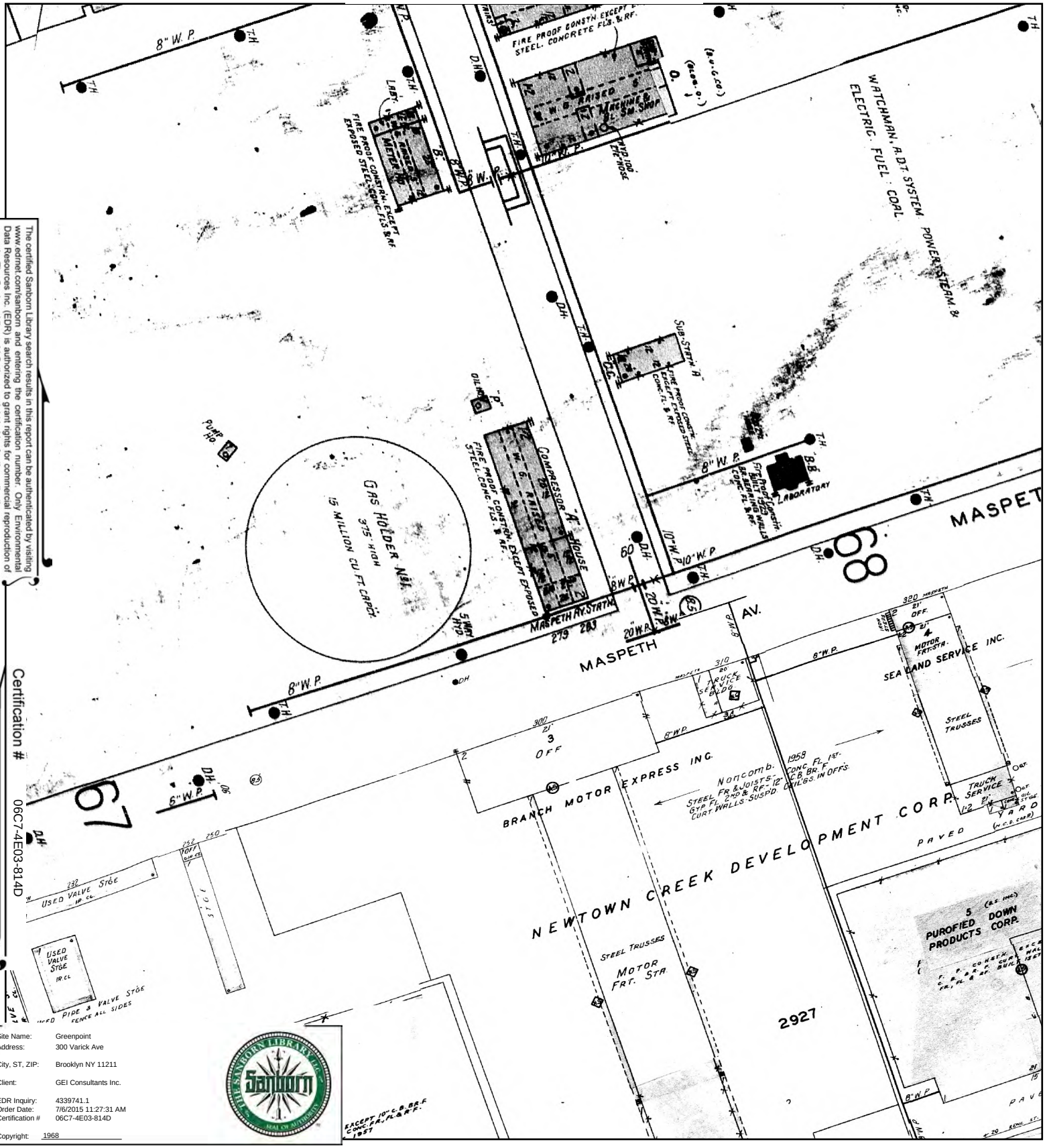
N

1968 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1968

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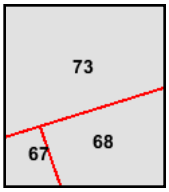

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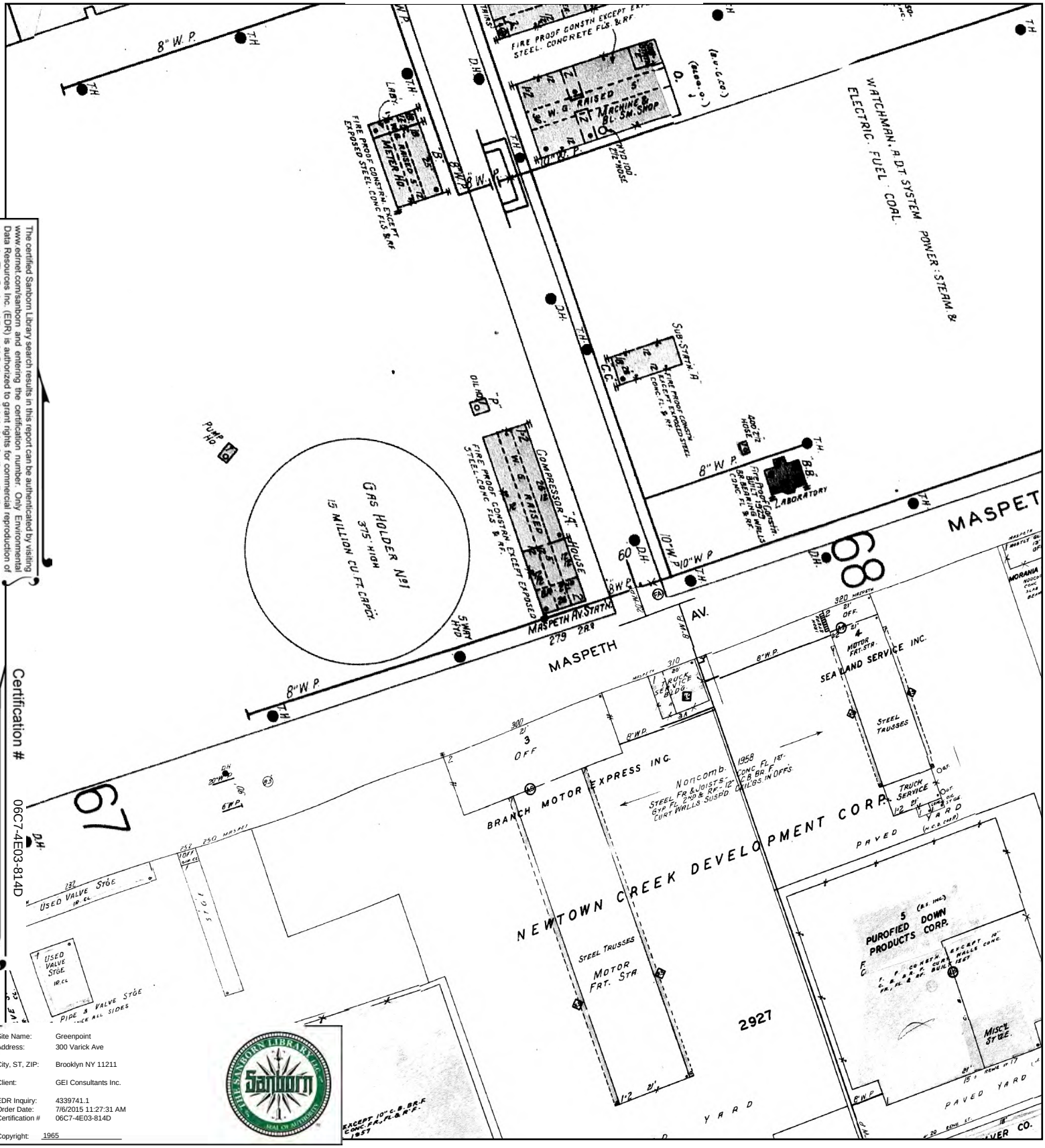
N

1965 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1965

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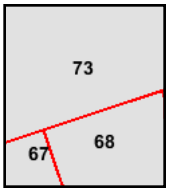

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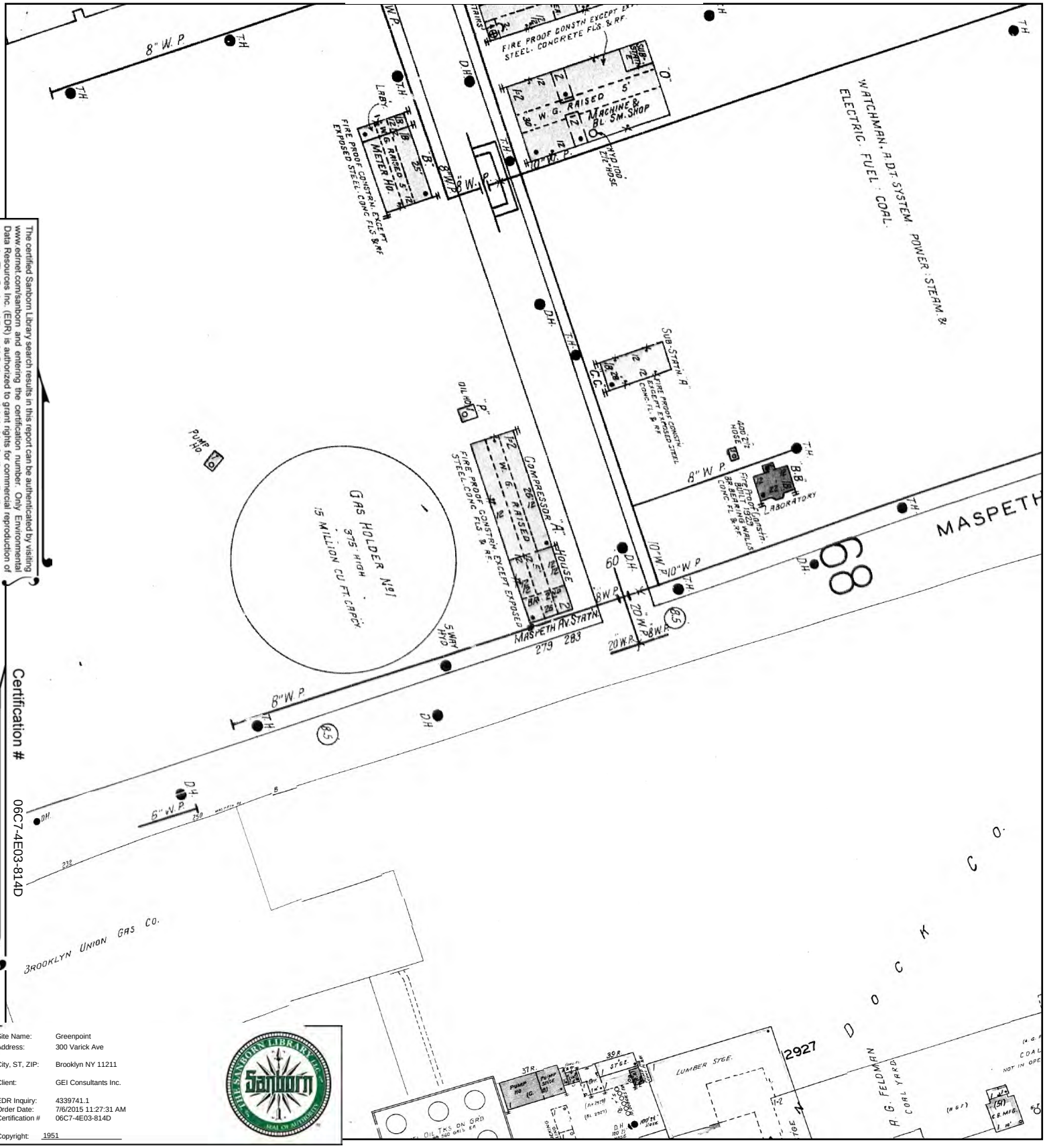
1951 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1951

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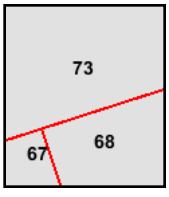

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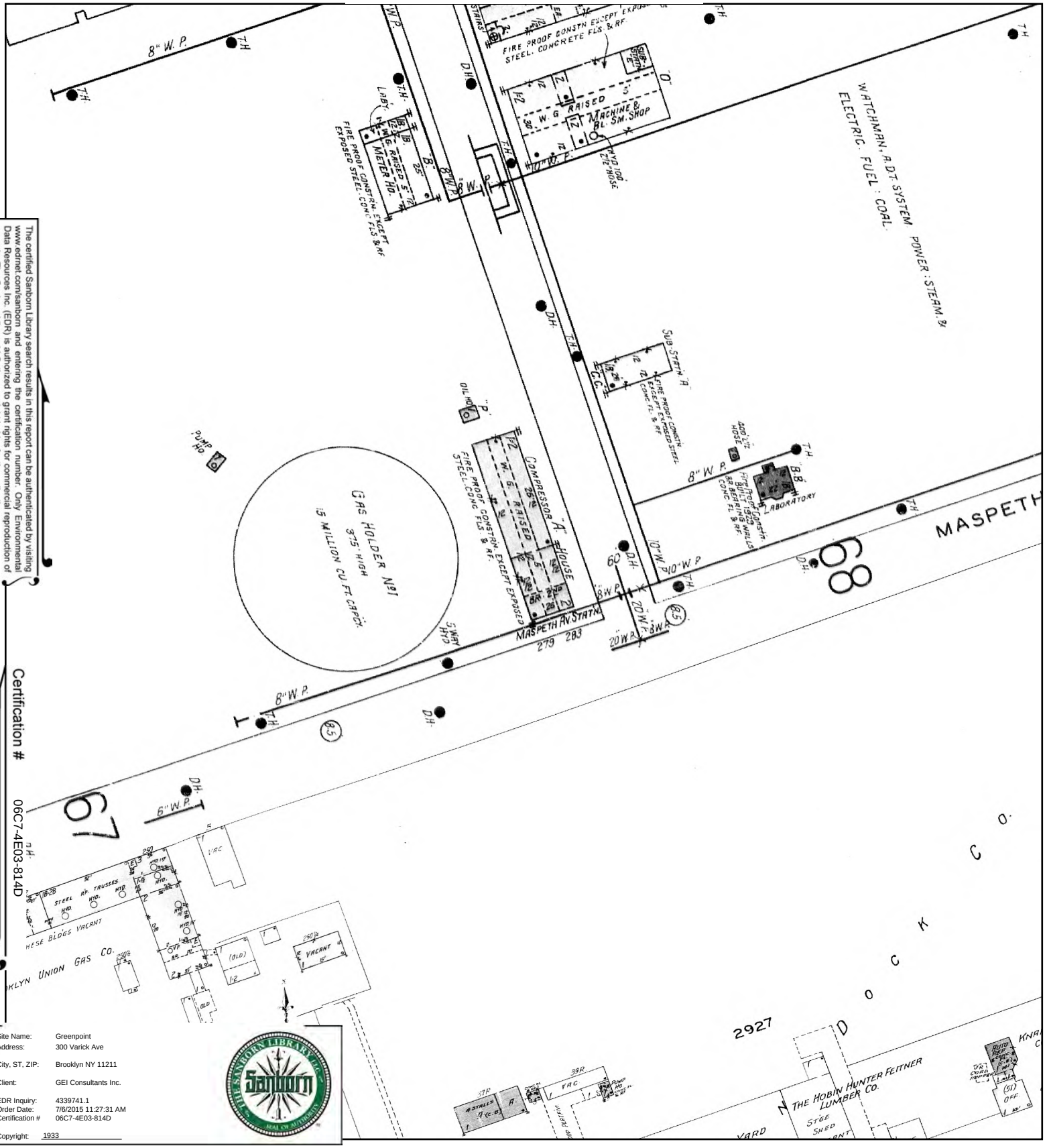
Volume 9, Sheet 73

0 Feet 165 330 660

N

1933 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1933

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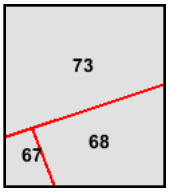

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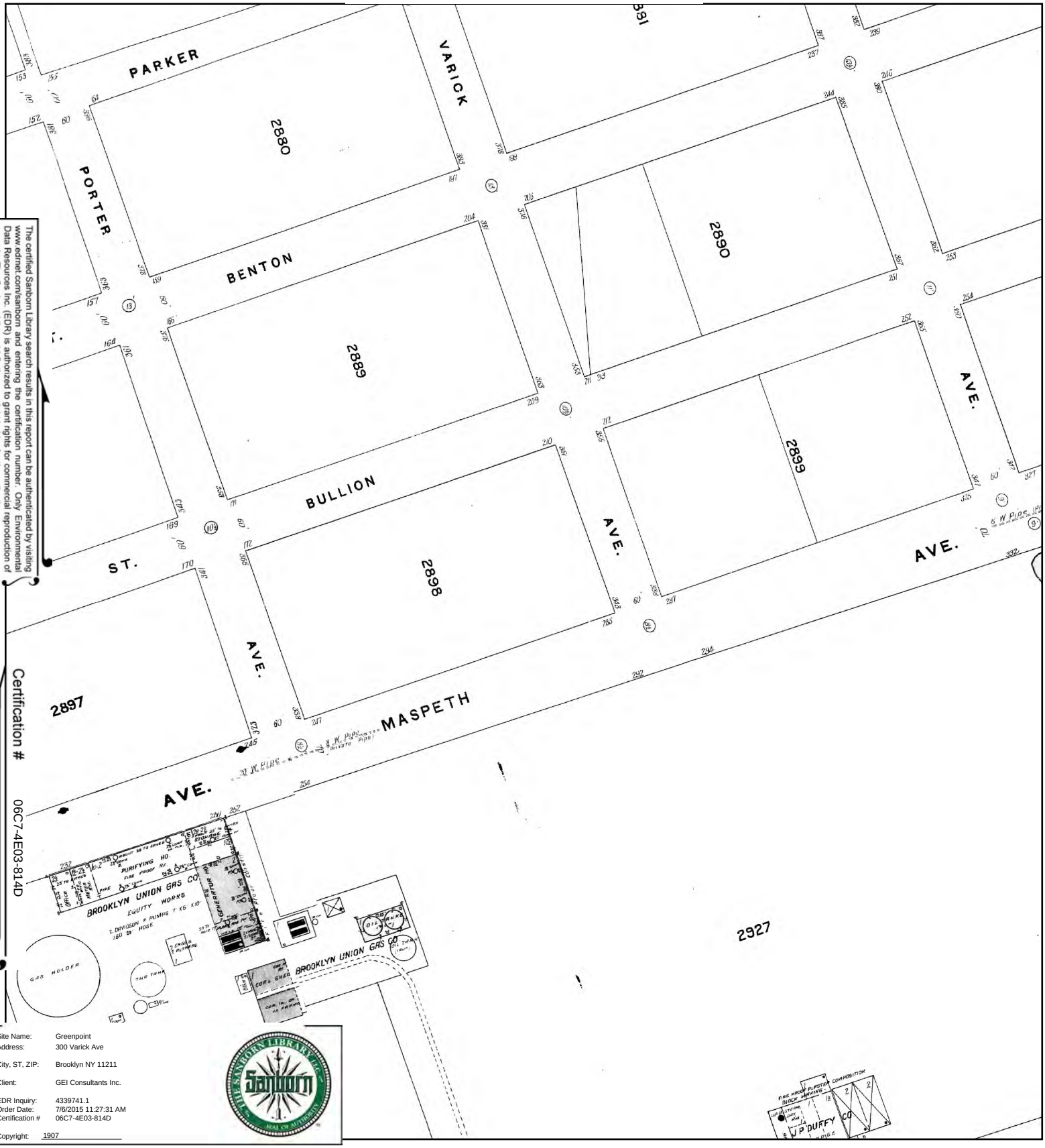
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1907 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1907

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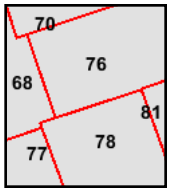

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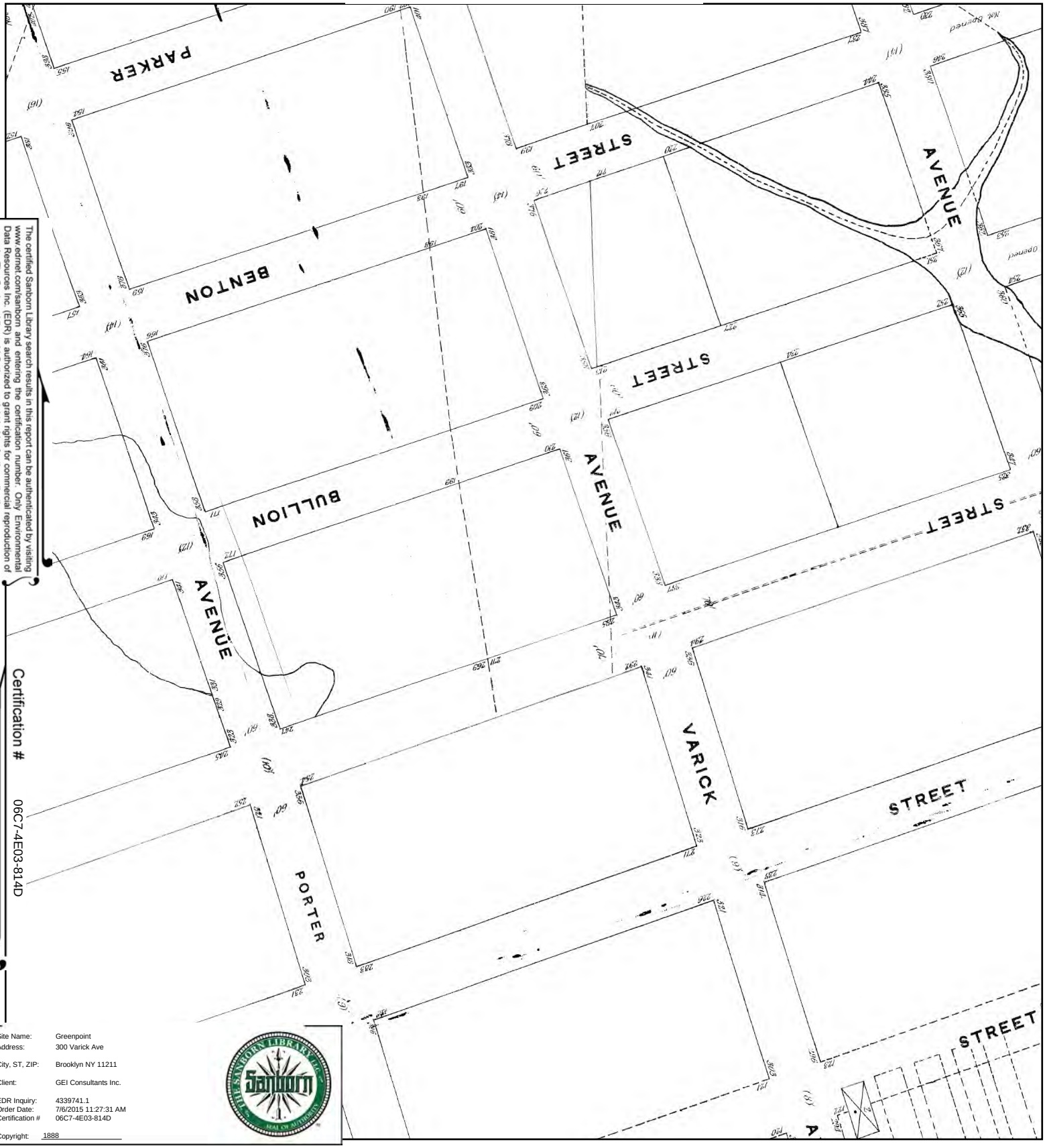
Volume 9, Sheet 77
Volume 9, Sheet 78

0 Feet 165 330 660

N

1888 Certified Sanborn Map



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Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1888

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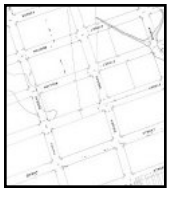

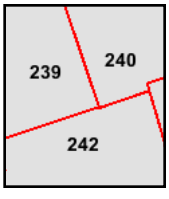

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Volume 9, Sheet 239
Volume 9, Sheet 240

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1902
2003	1992	1986	1968	1888
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

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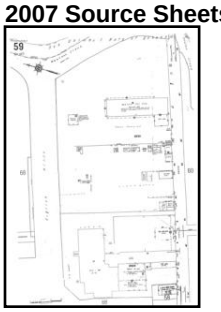
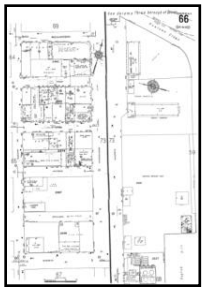
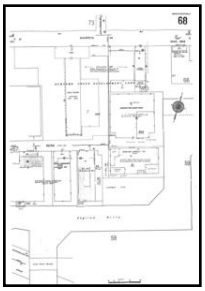
2007 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66



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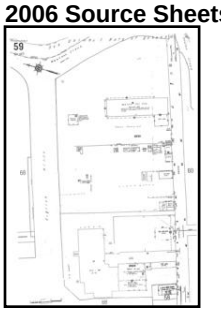
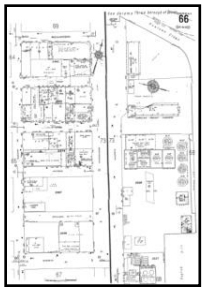
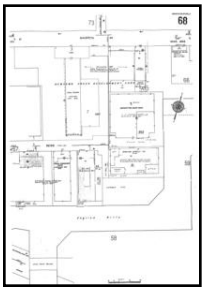
2006 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66



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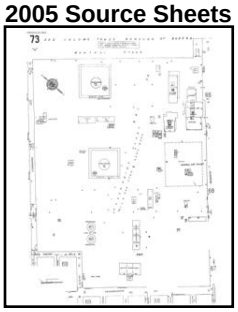
2005 Source Sheets



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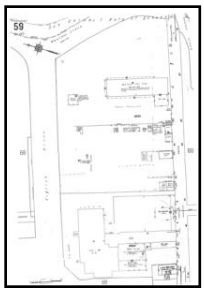

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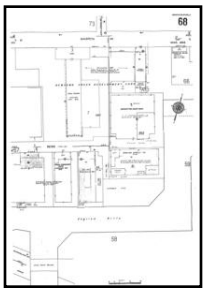

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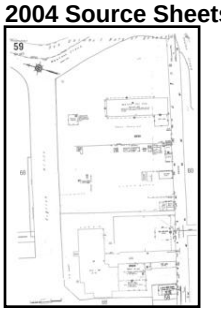

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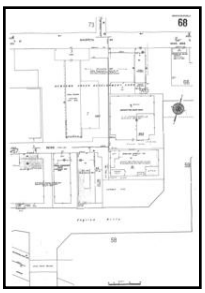

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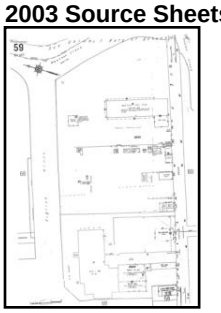

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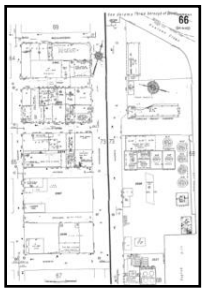

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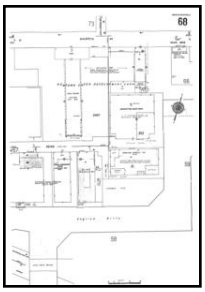

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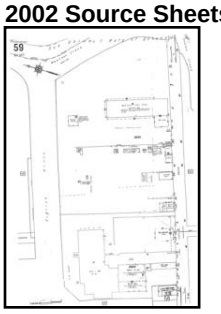

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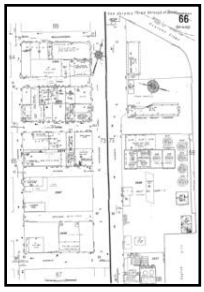

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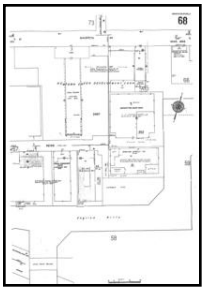

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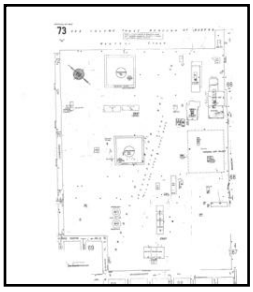

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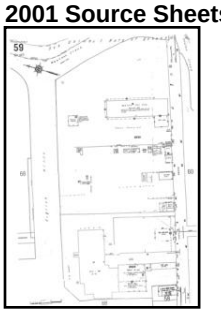

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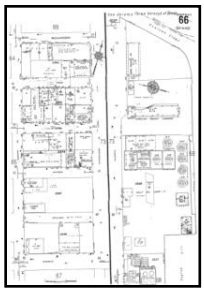

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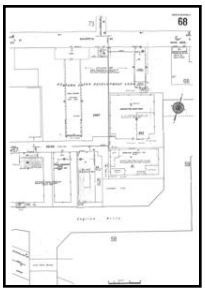

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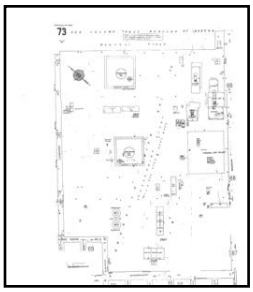

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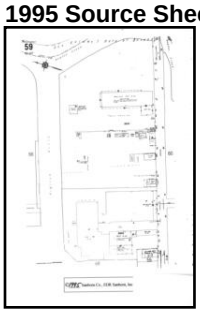

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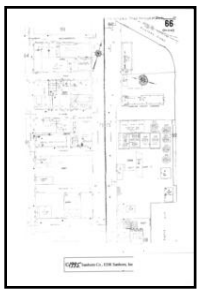

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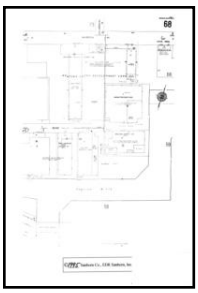

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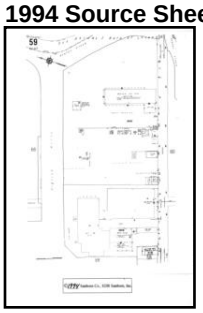

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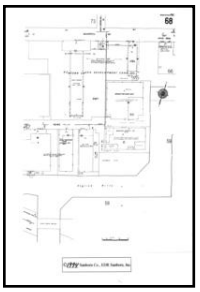

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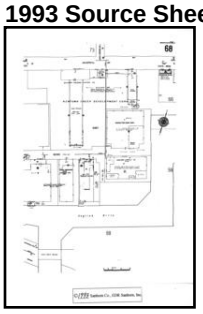

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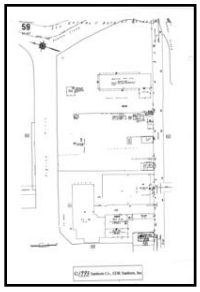

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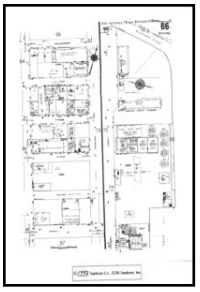

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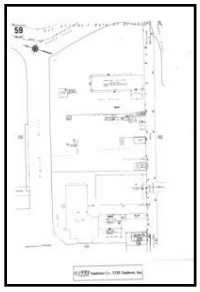

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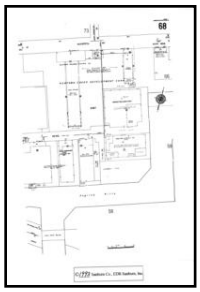

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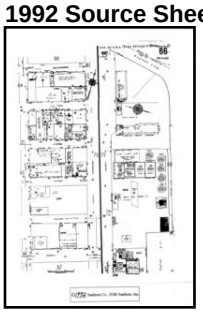

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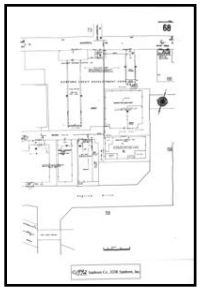

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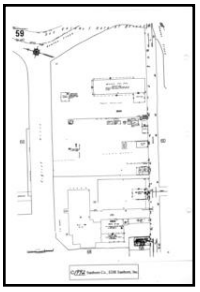

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1991 Source Sheets



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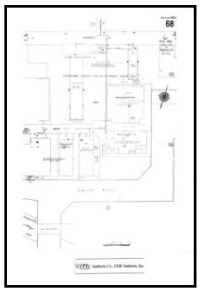

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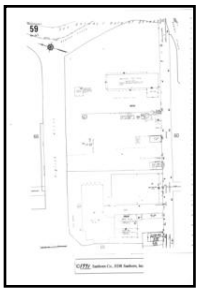

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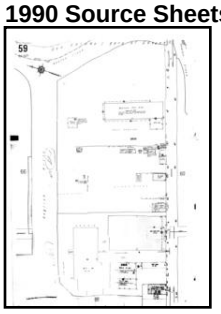

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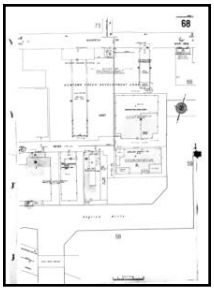

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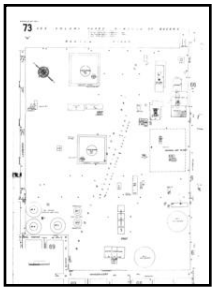

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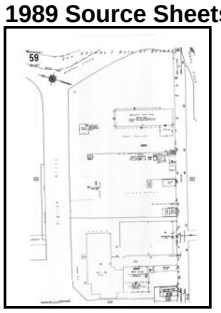

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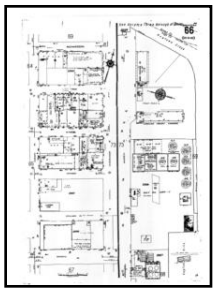

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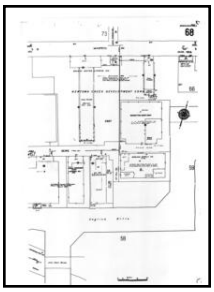

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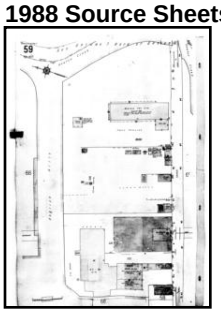

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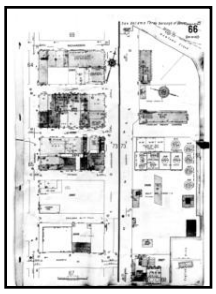

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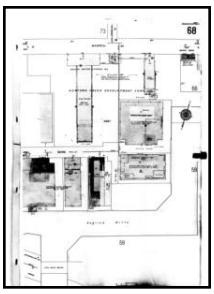

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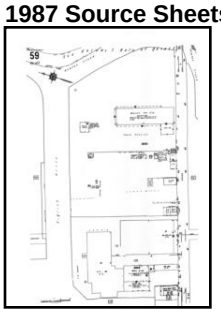

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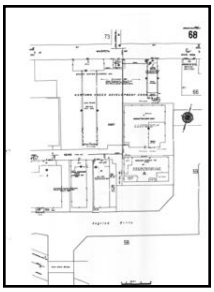

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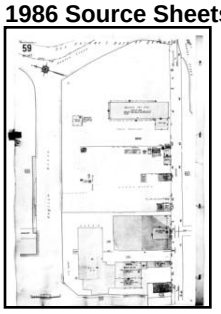

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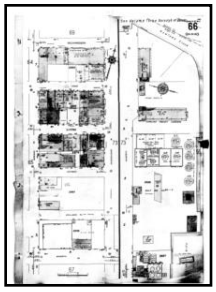

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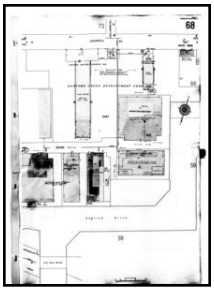

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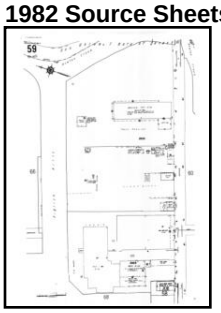

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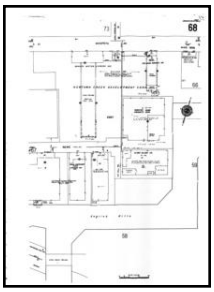

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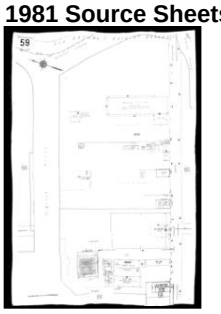

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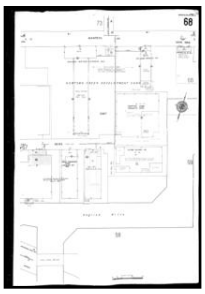

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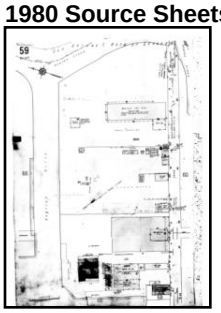

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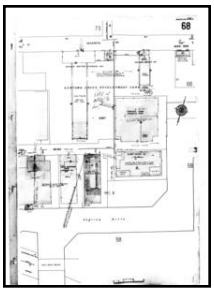

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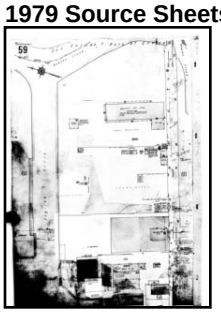

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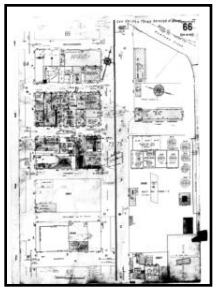

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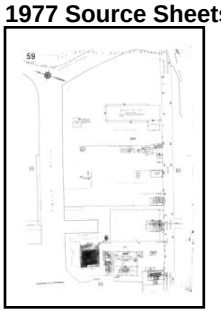

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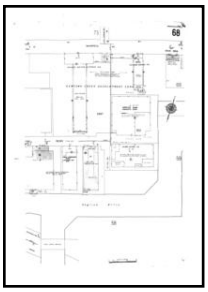

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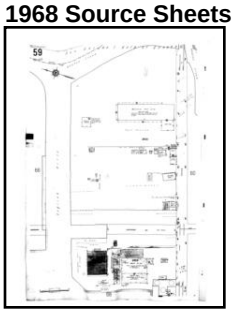

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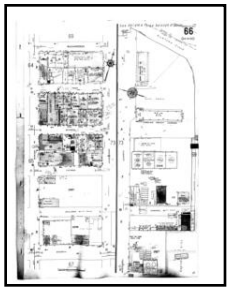

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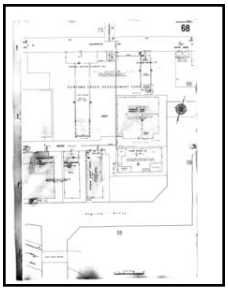

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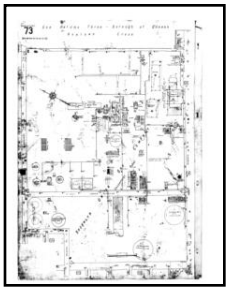

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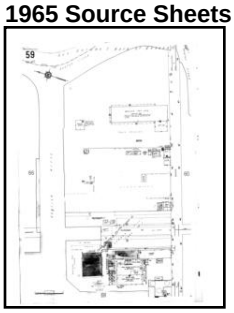
1965 Source Sheets



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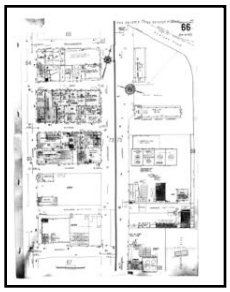

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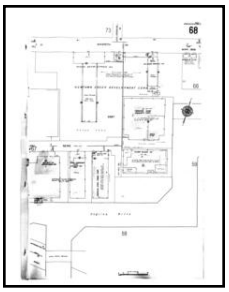

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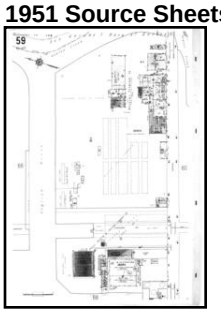
1951 Source Sheets



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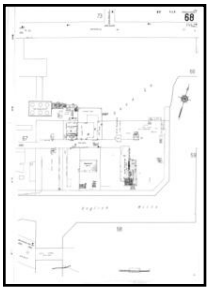

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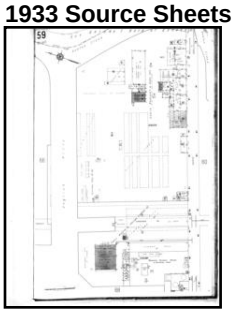
1933 Source Sheets



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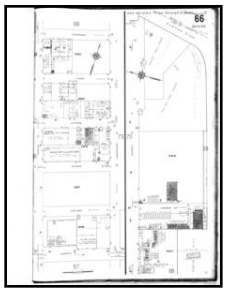

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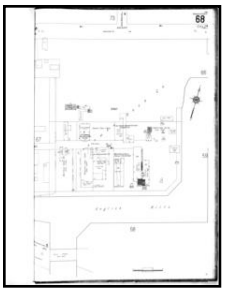

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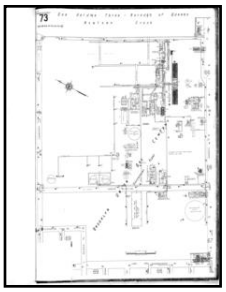

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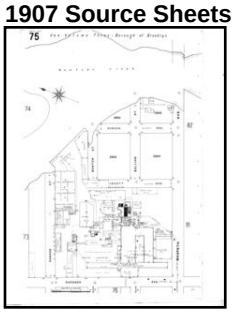

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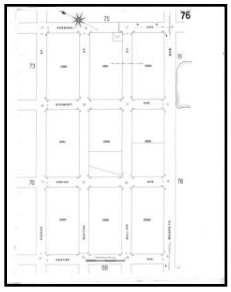

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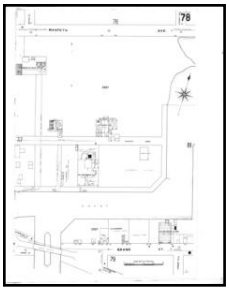

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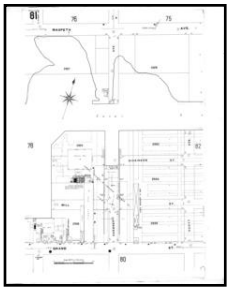

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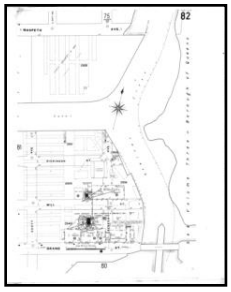

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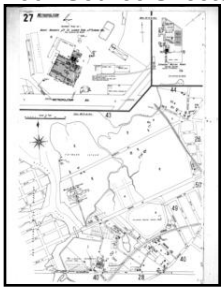

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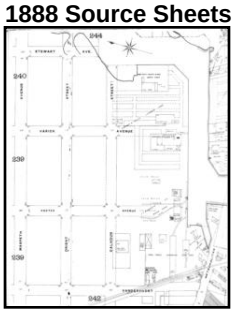

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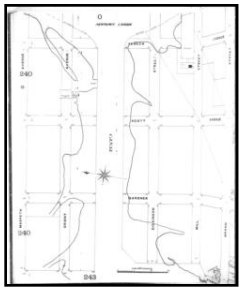

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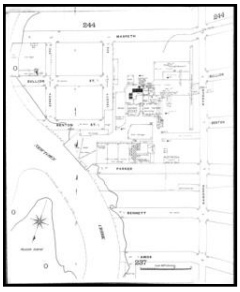

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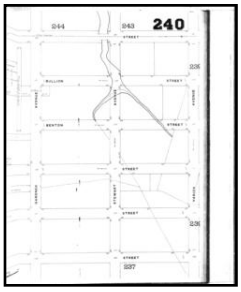

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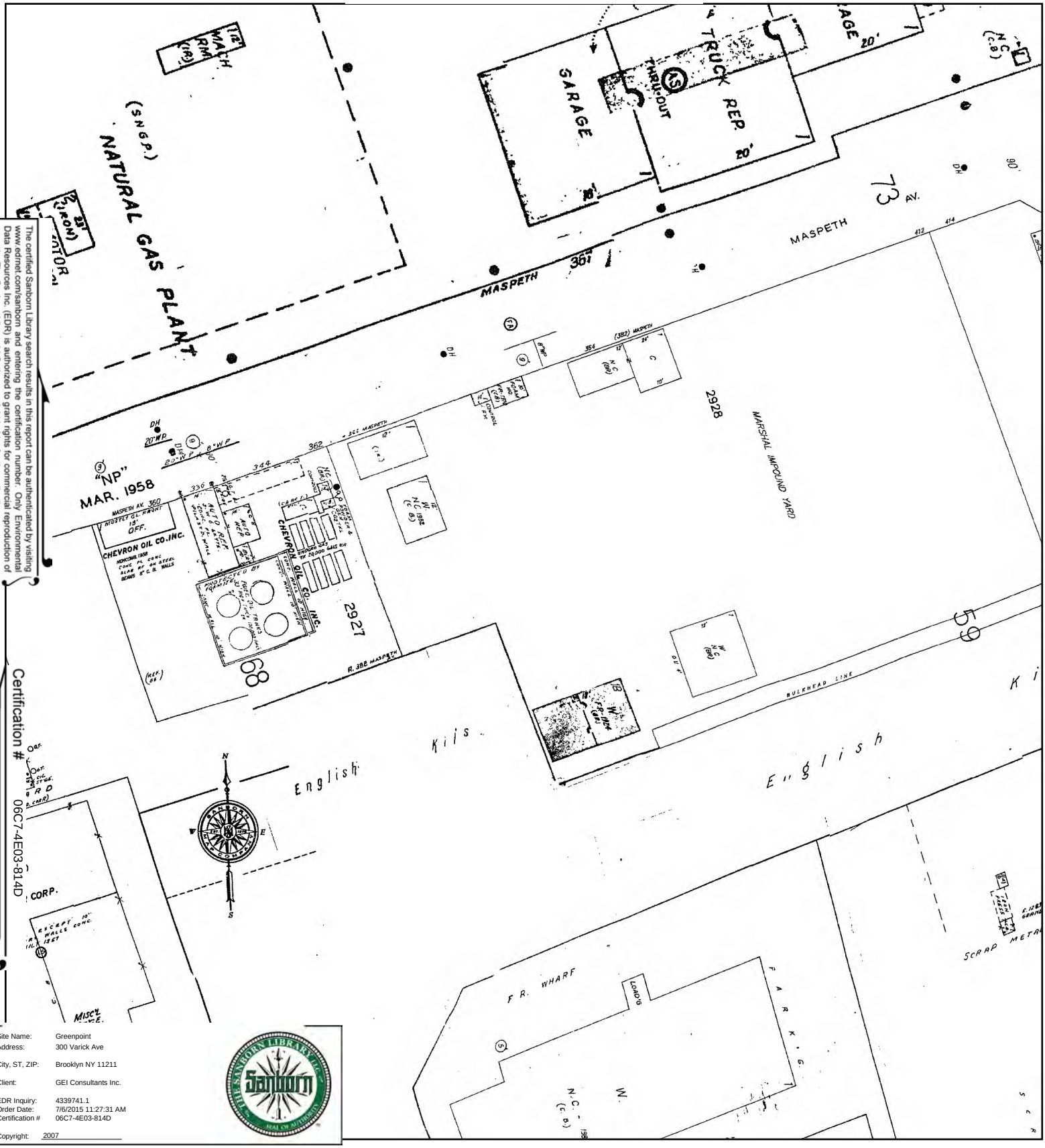
2007 Certified Sanborn Map



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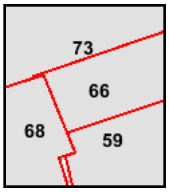

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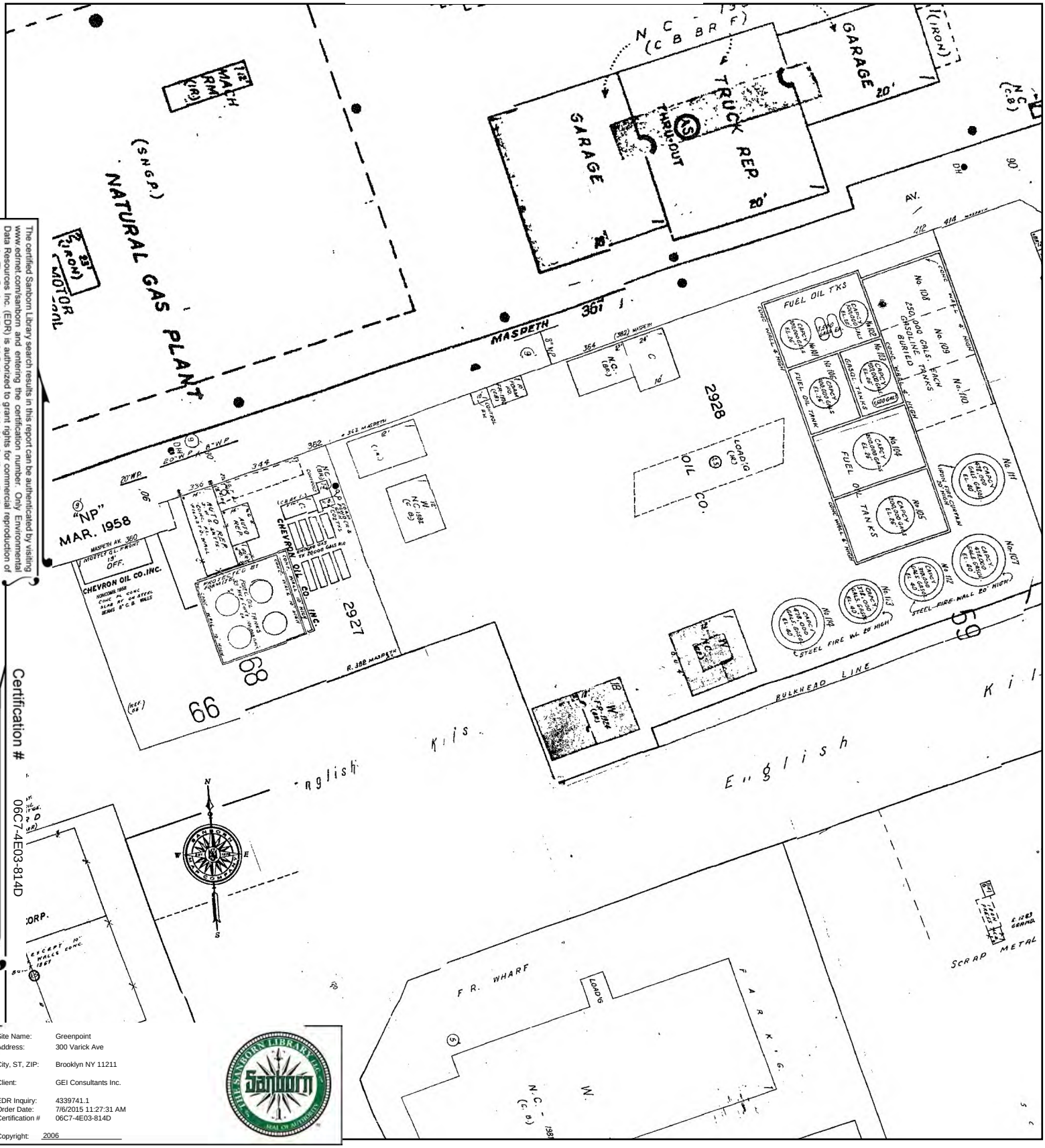
2006 Certified Sanborn Map



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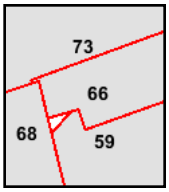

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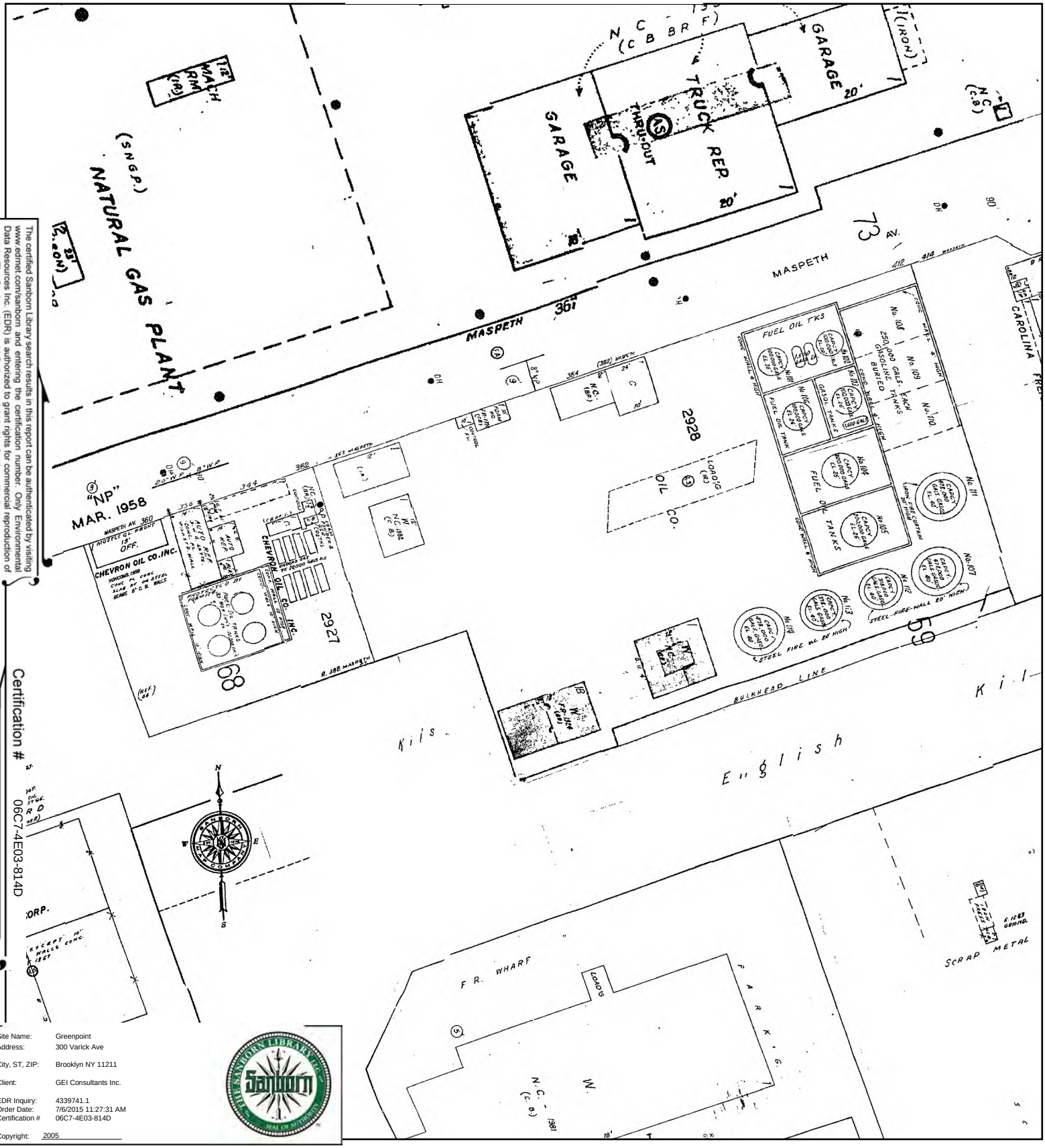
2005 Certified Sanborn Map



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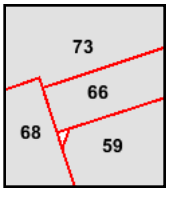

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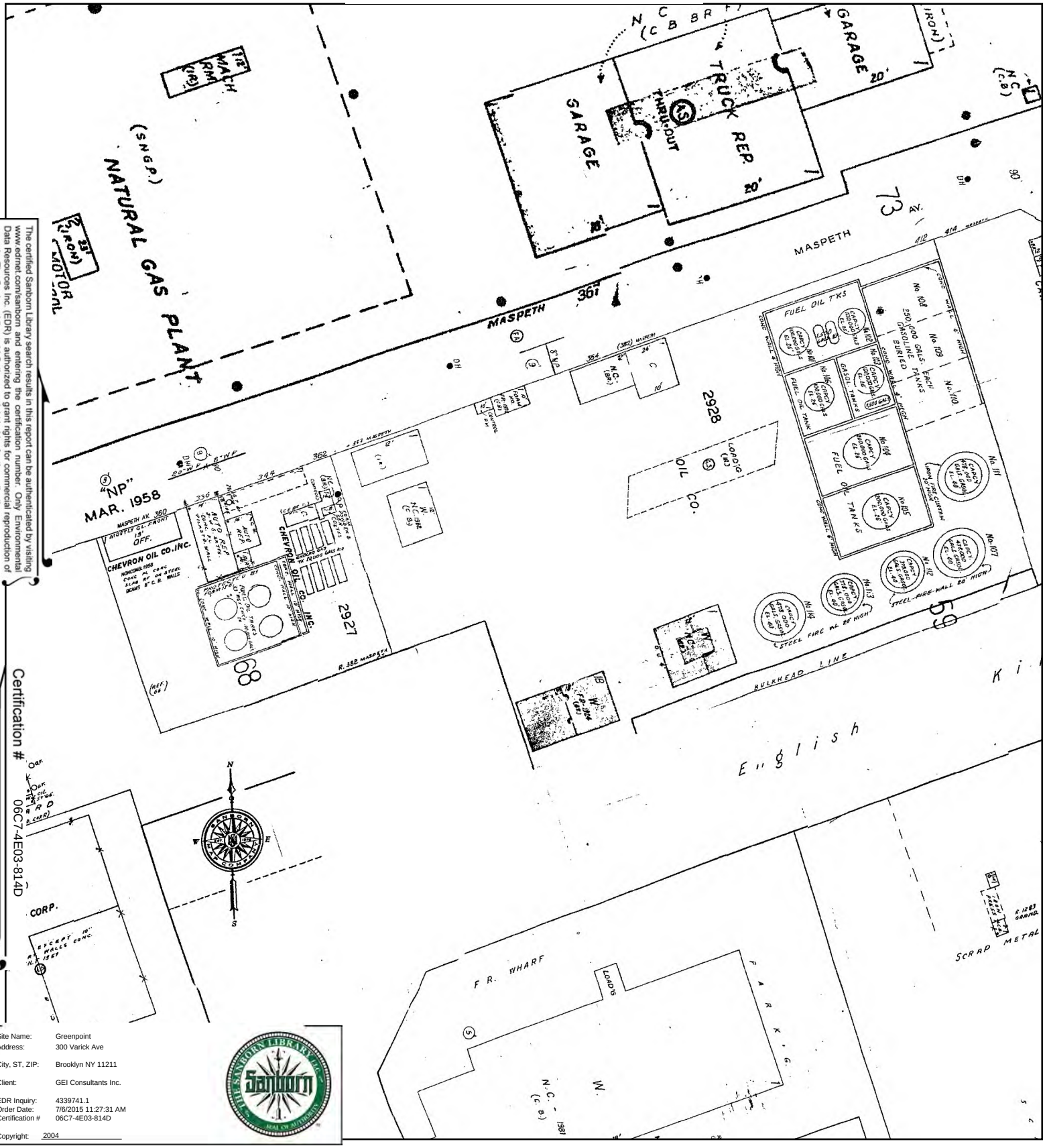
2004 Certified Sanborn Map



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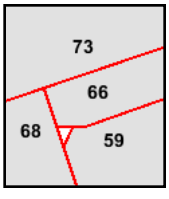

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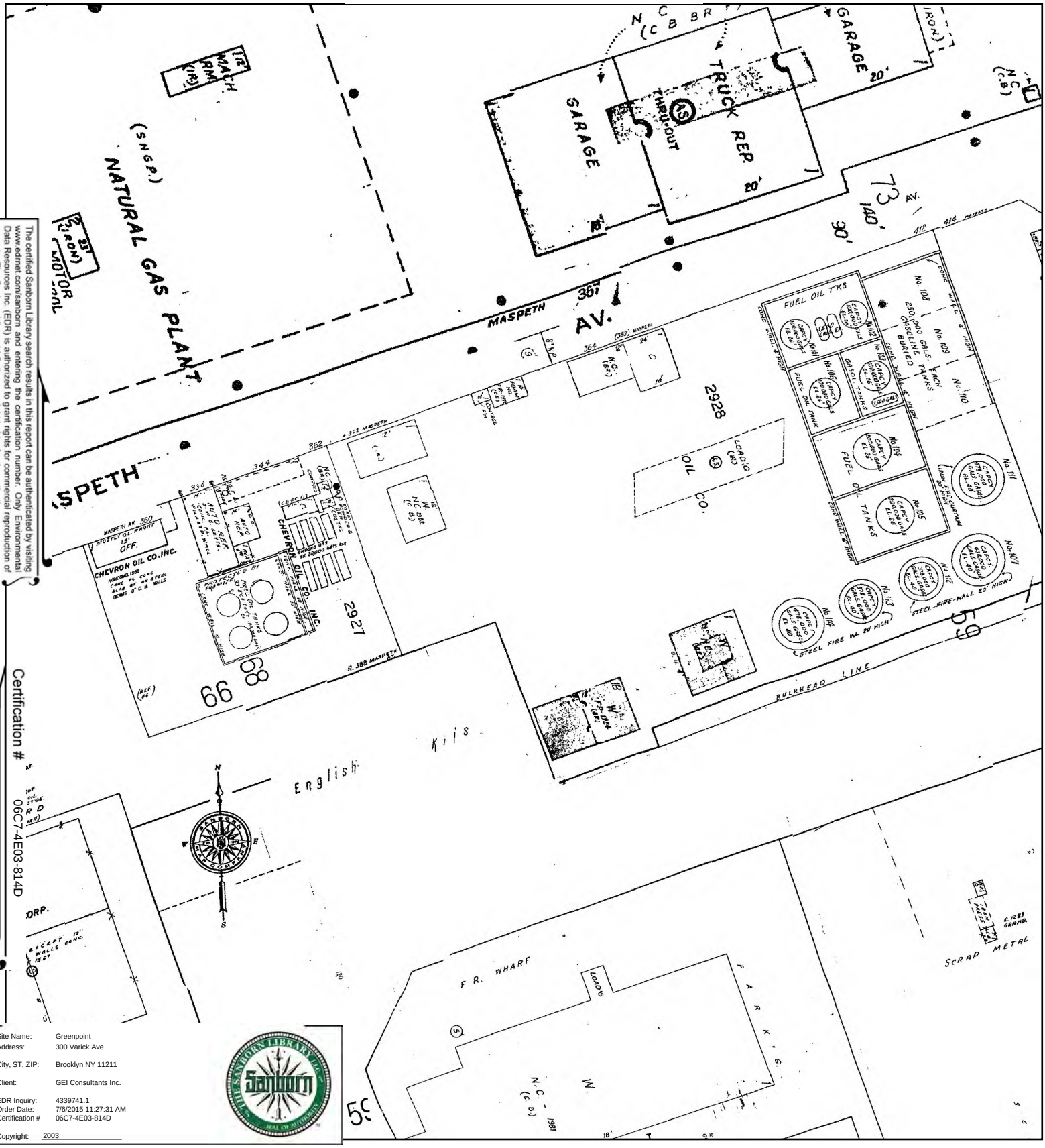
2003 Certified Sanborn Map



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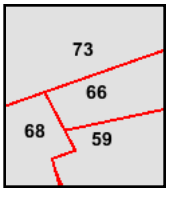

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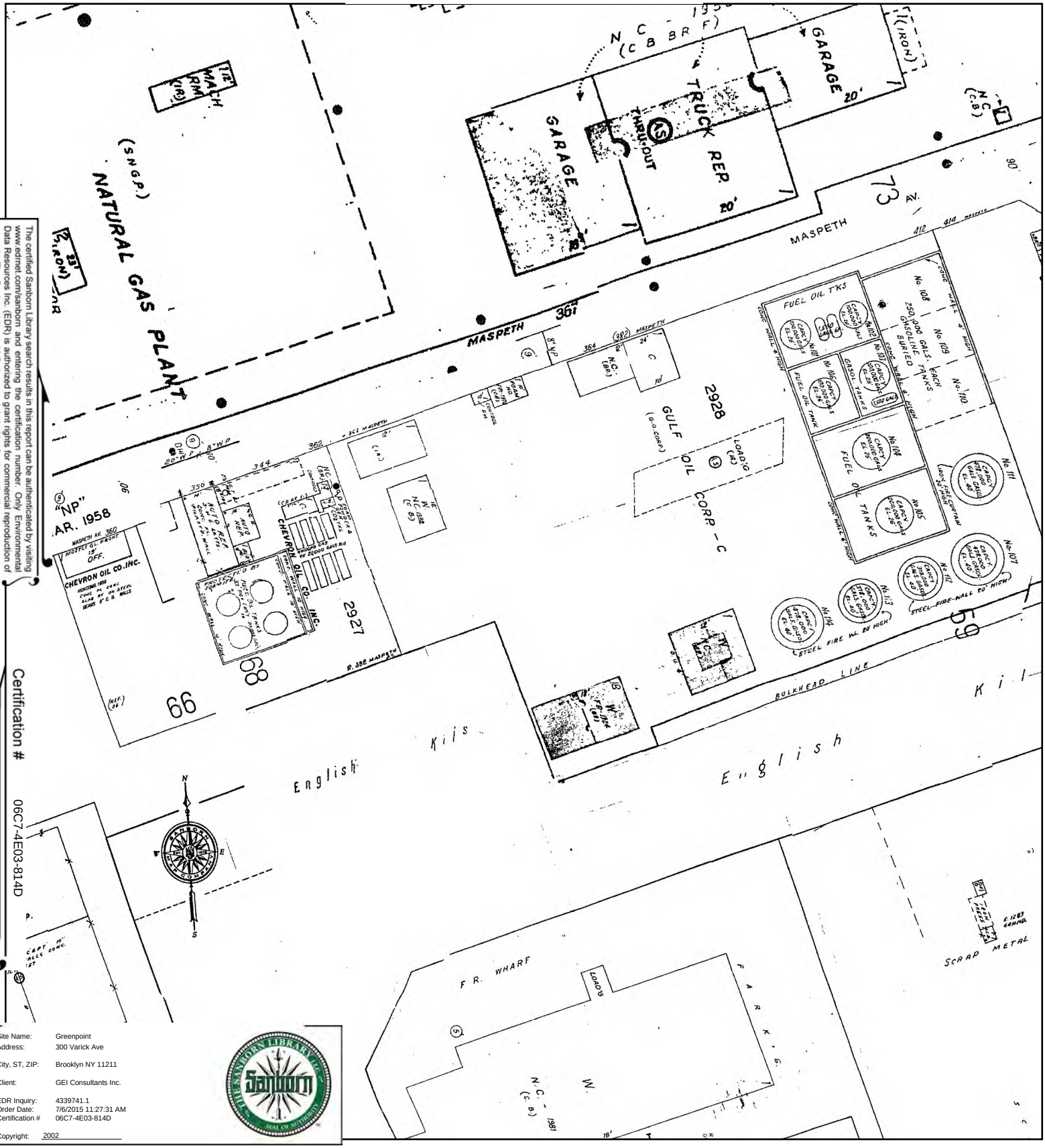
2002 Certified Sanborn Map



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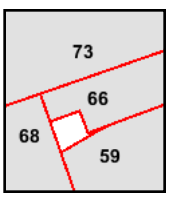

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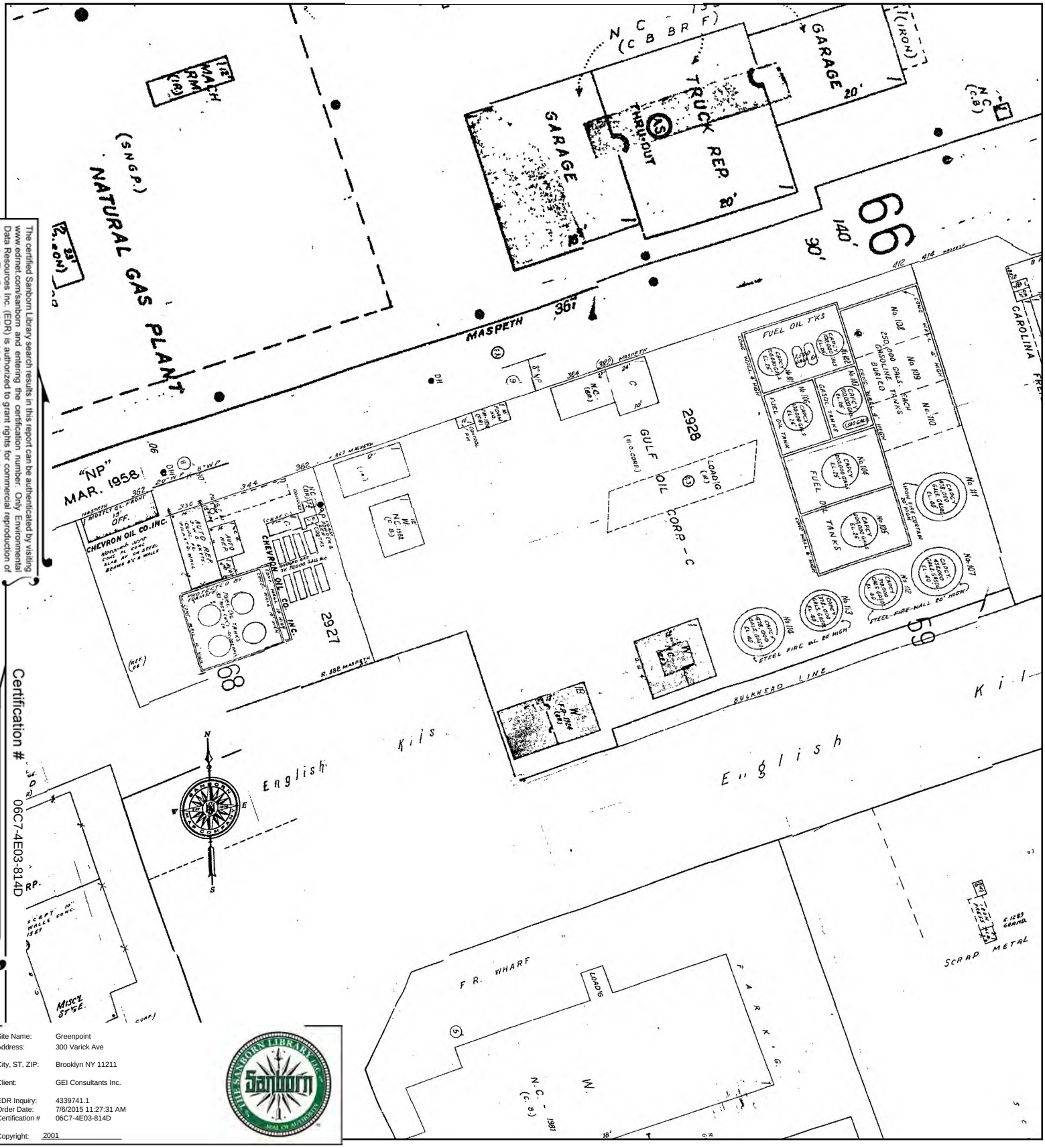

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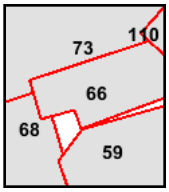

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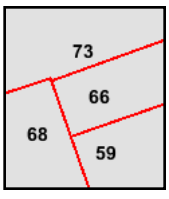

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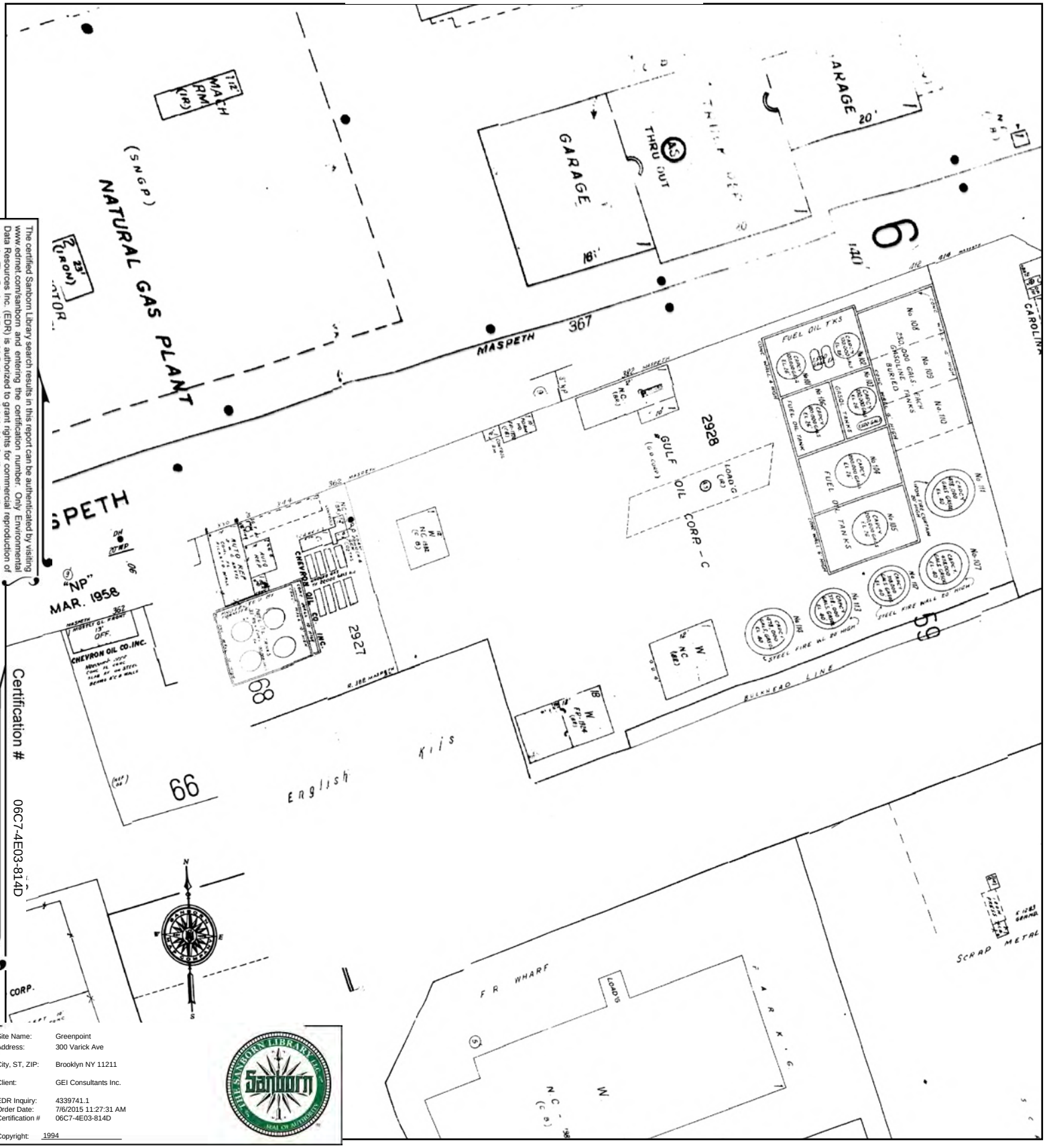
1994 Certified Sanborn Map



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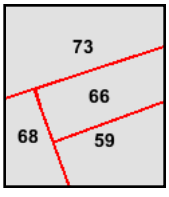

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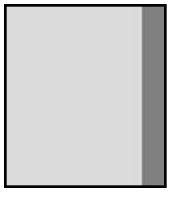

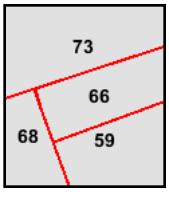

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Volume 9, Sheet 73

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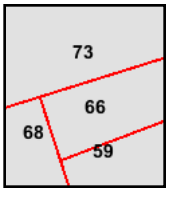

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Volume 9, Sheet 73

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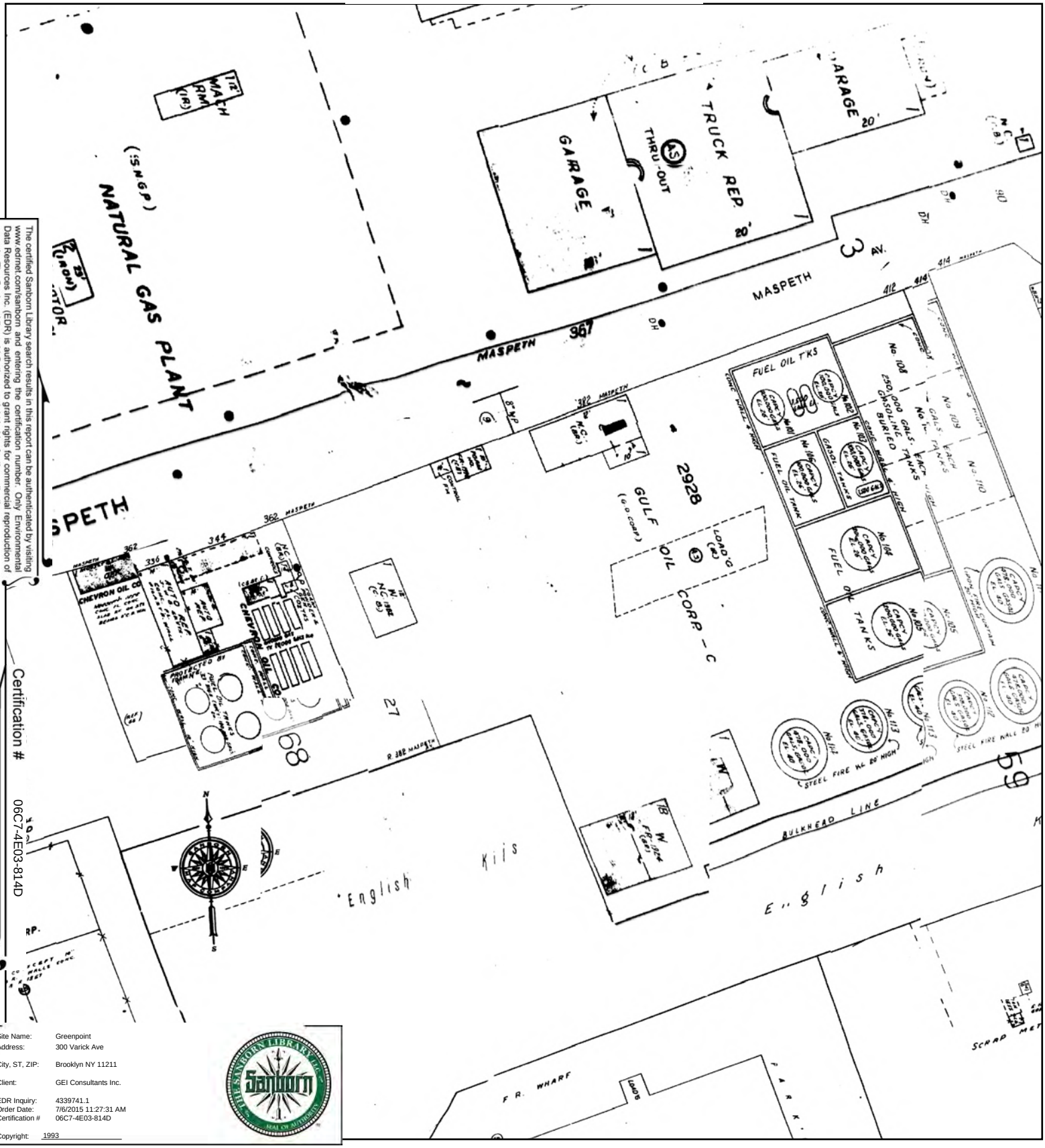

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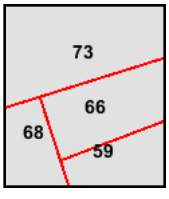

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Volume 9, Sheet 66
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Volume 9, Sheet 73

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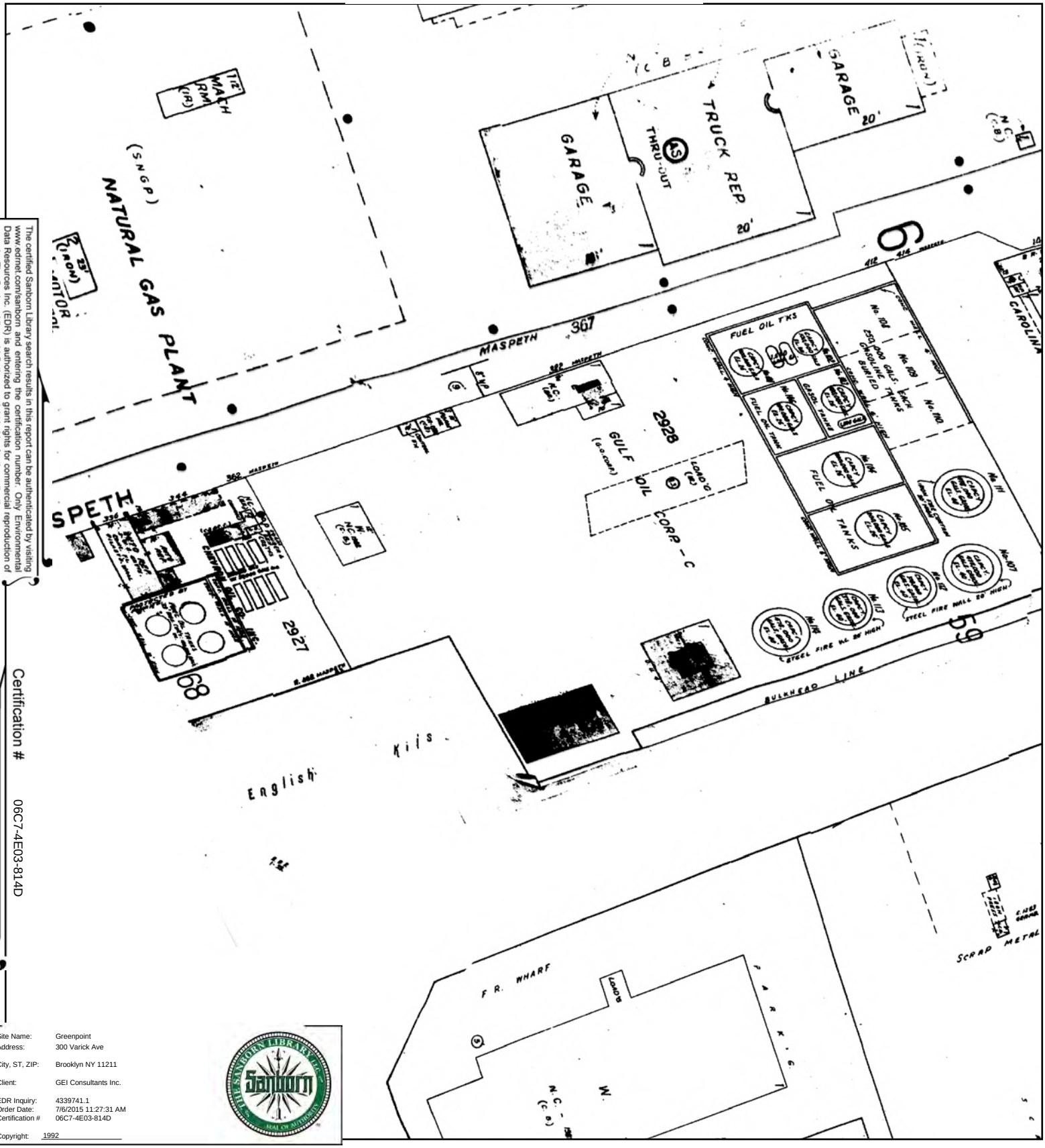
1992 Certified Sanborn Map



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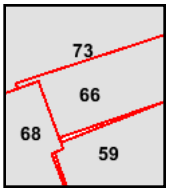

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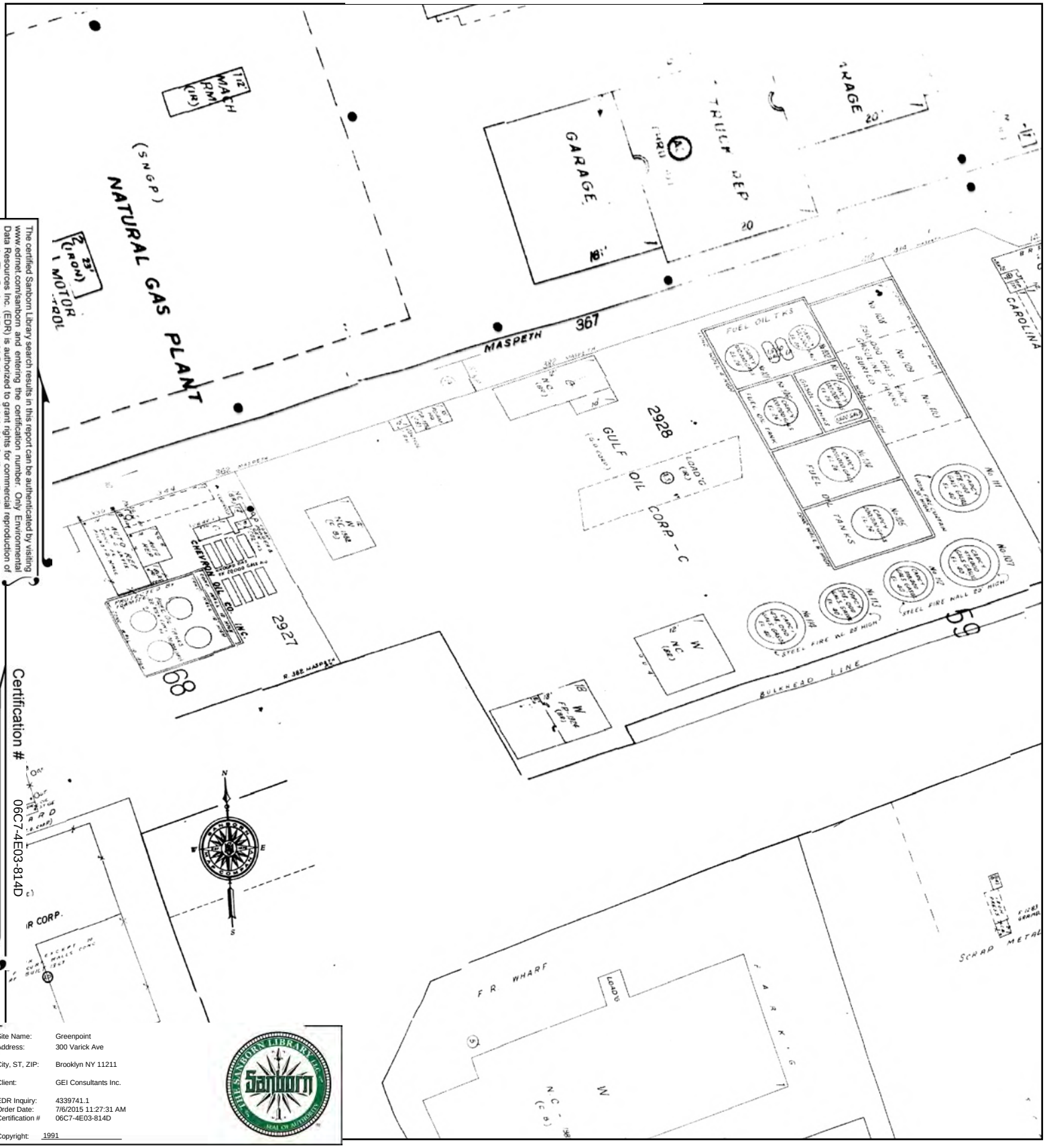

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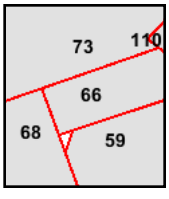

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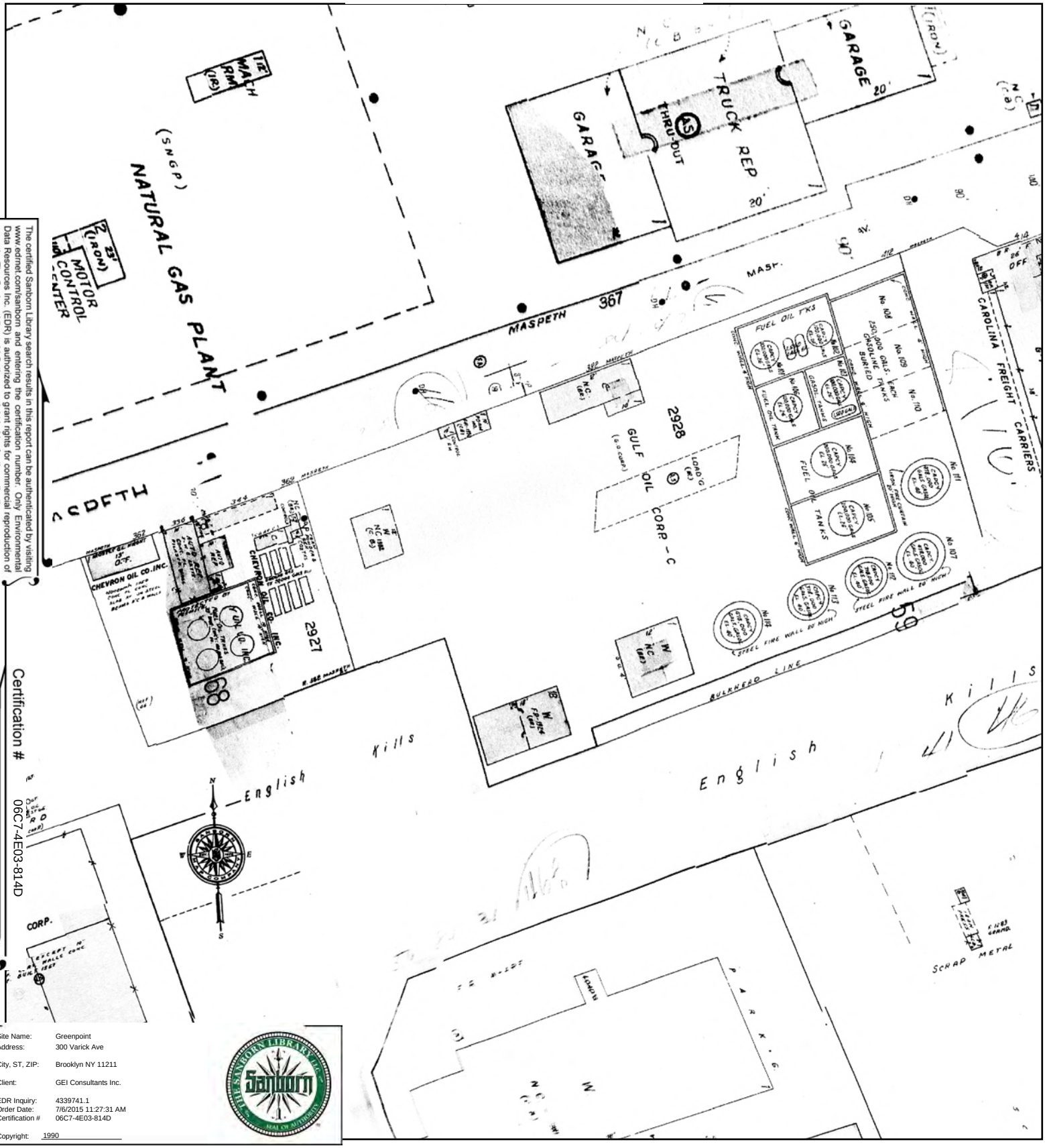

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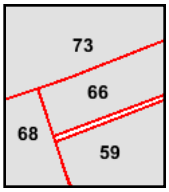

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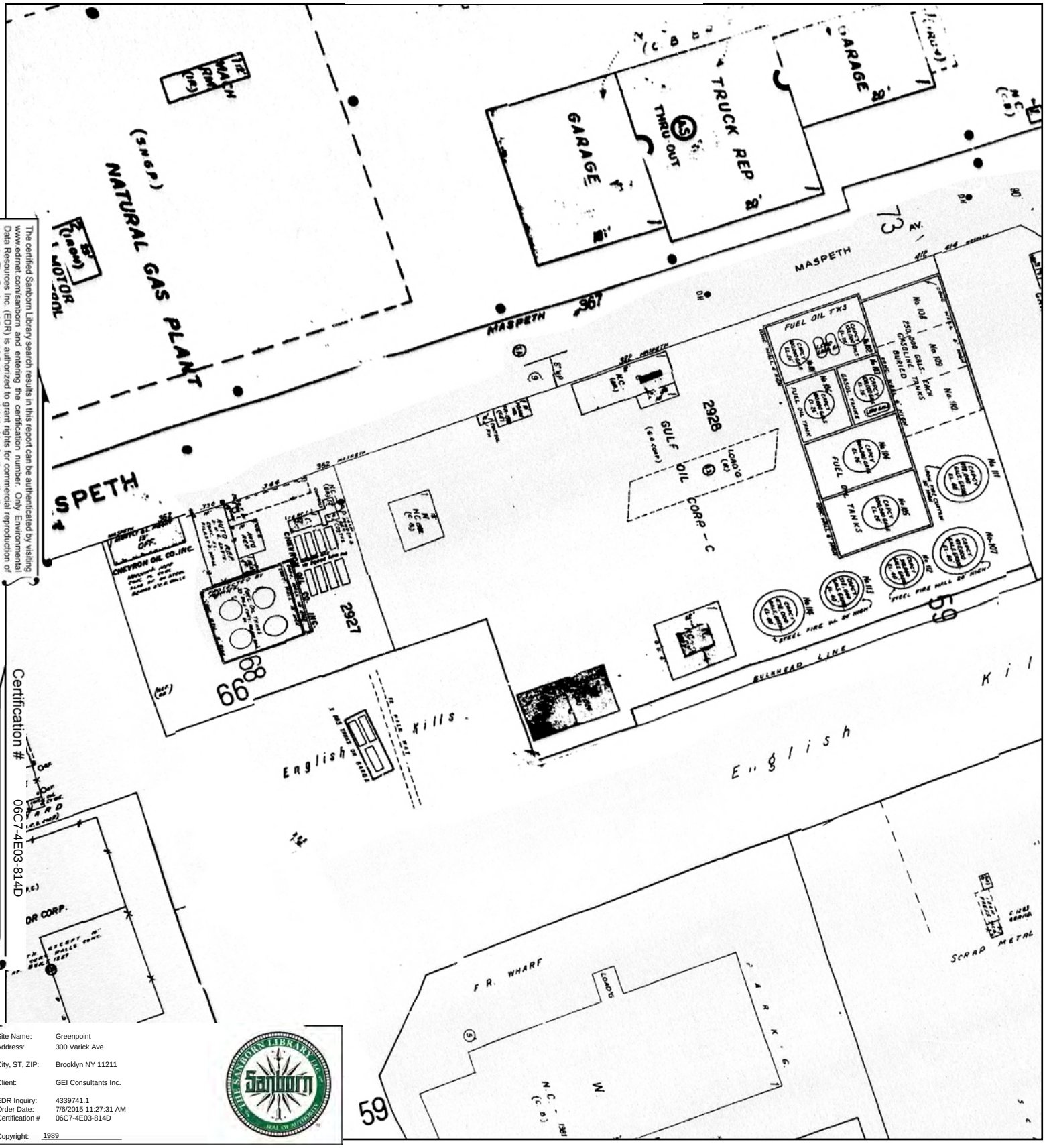

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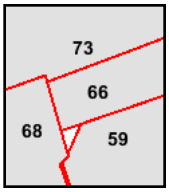

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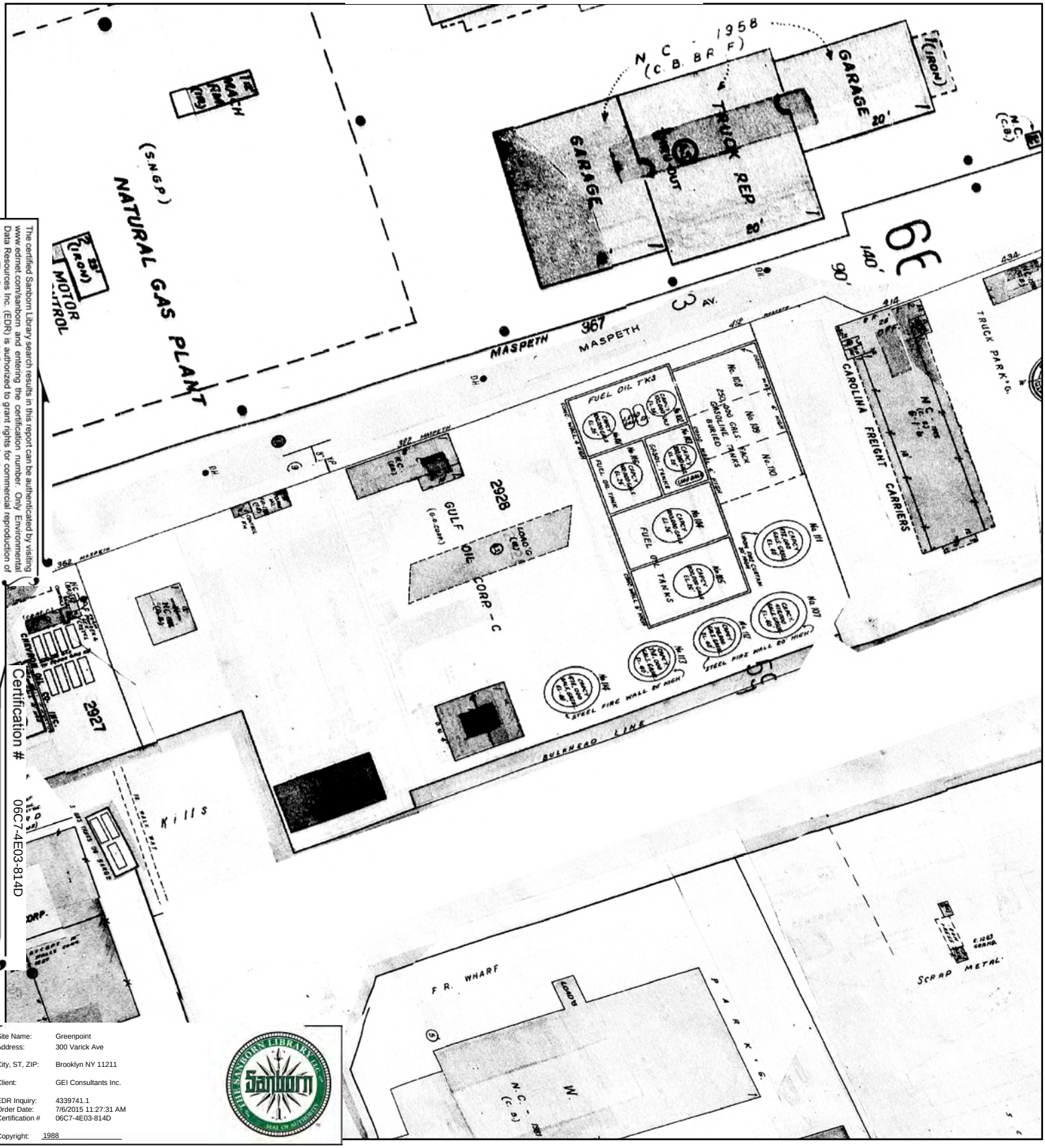

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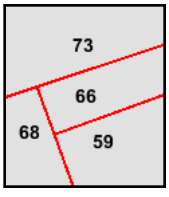

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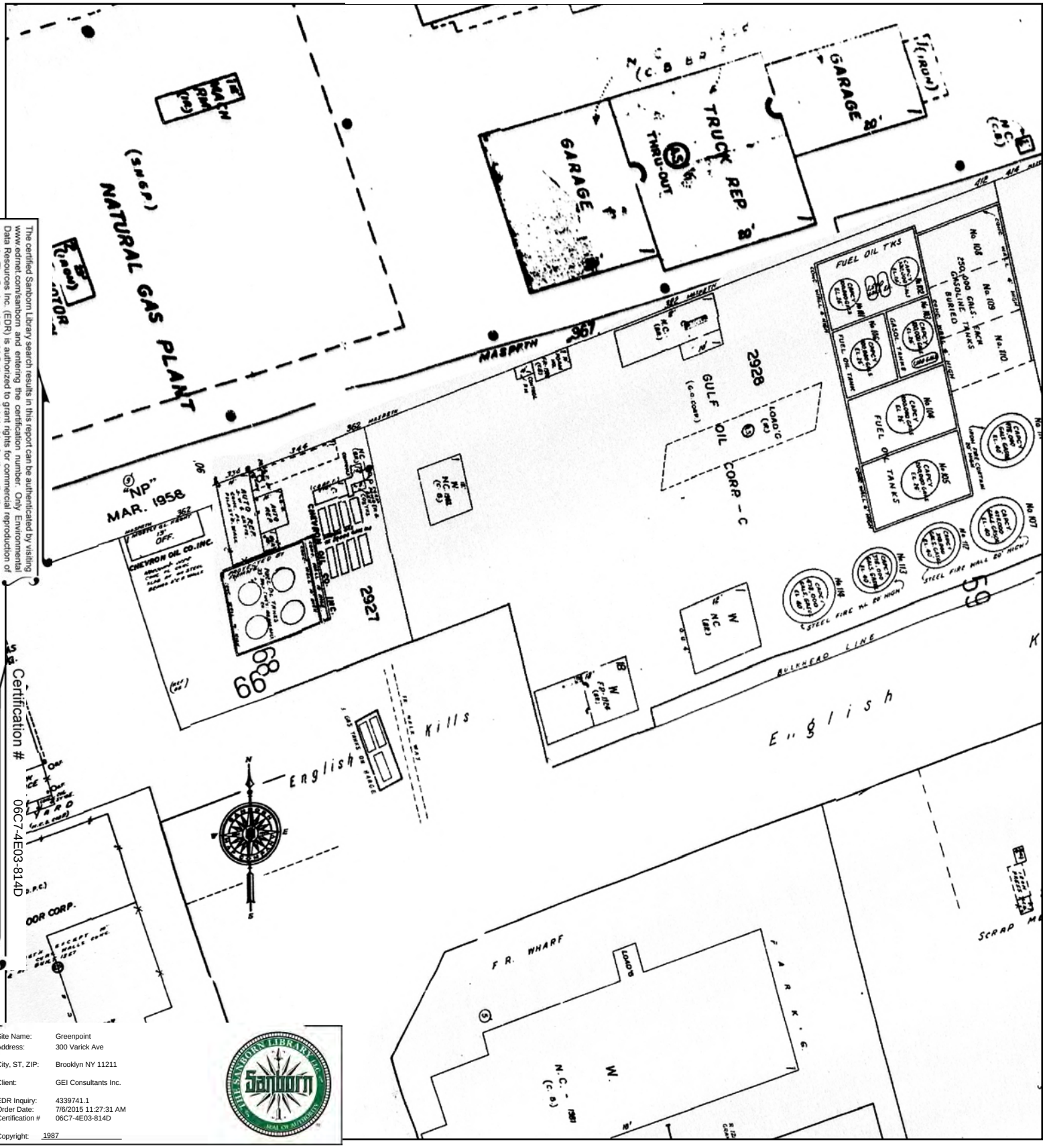
1987 Certified Sanborn Map



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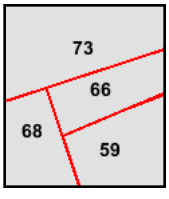

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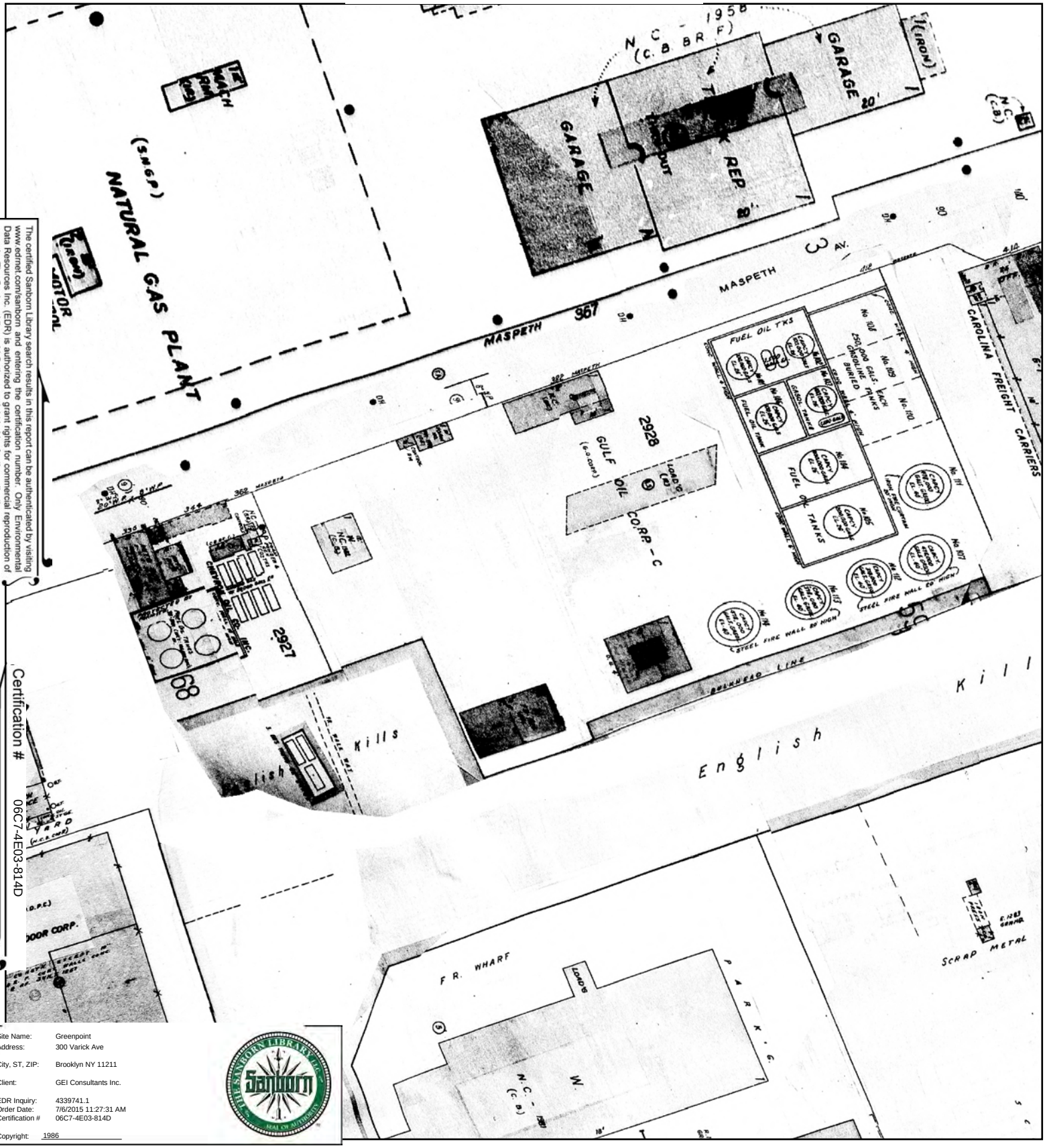
1986 Certified Sanborn Map



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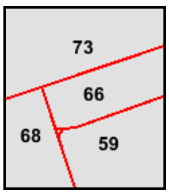

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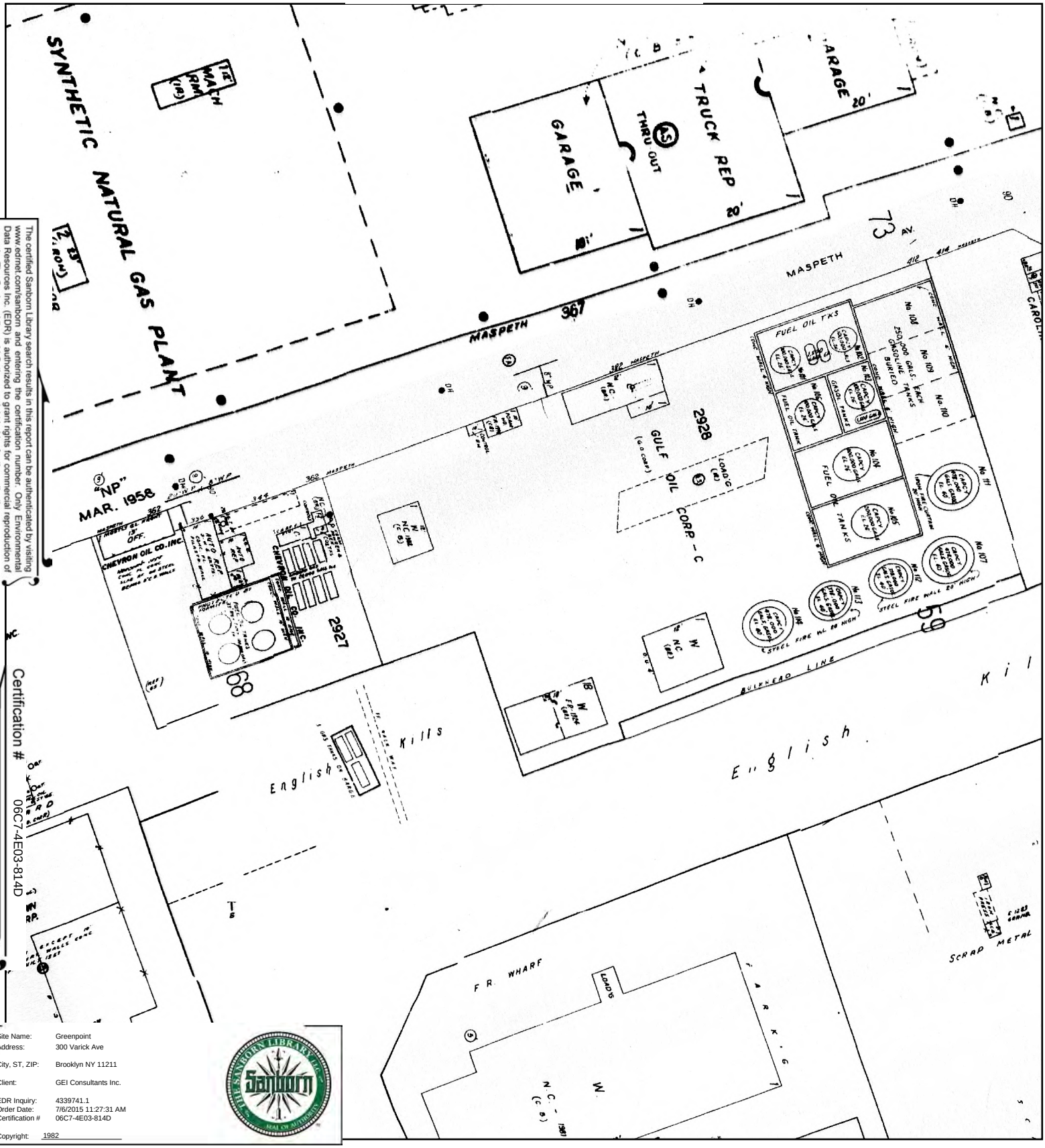
1982 Certified Sanborn Map



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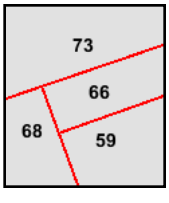

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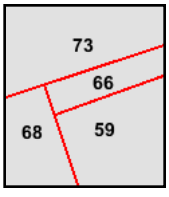

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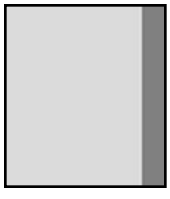

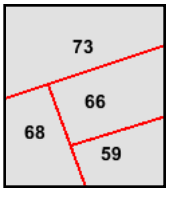

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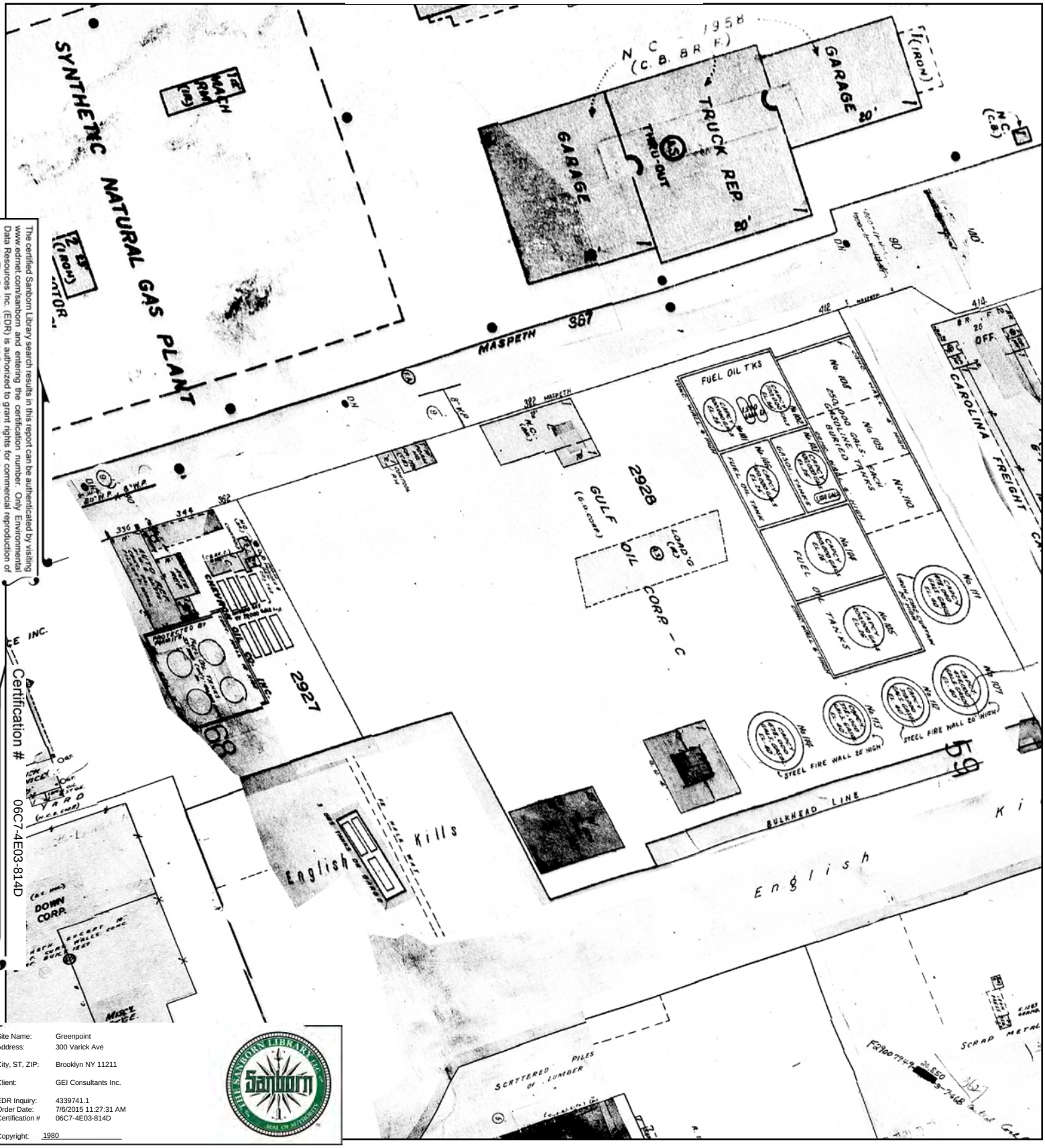

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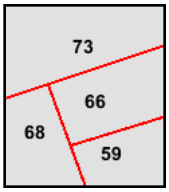

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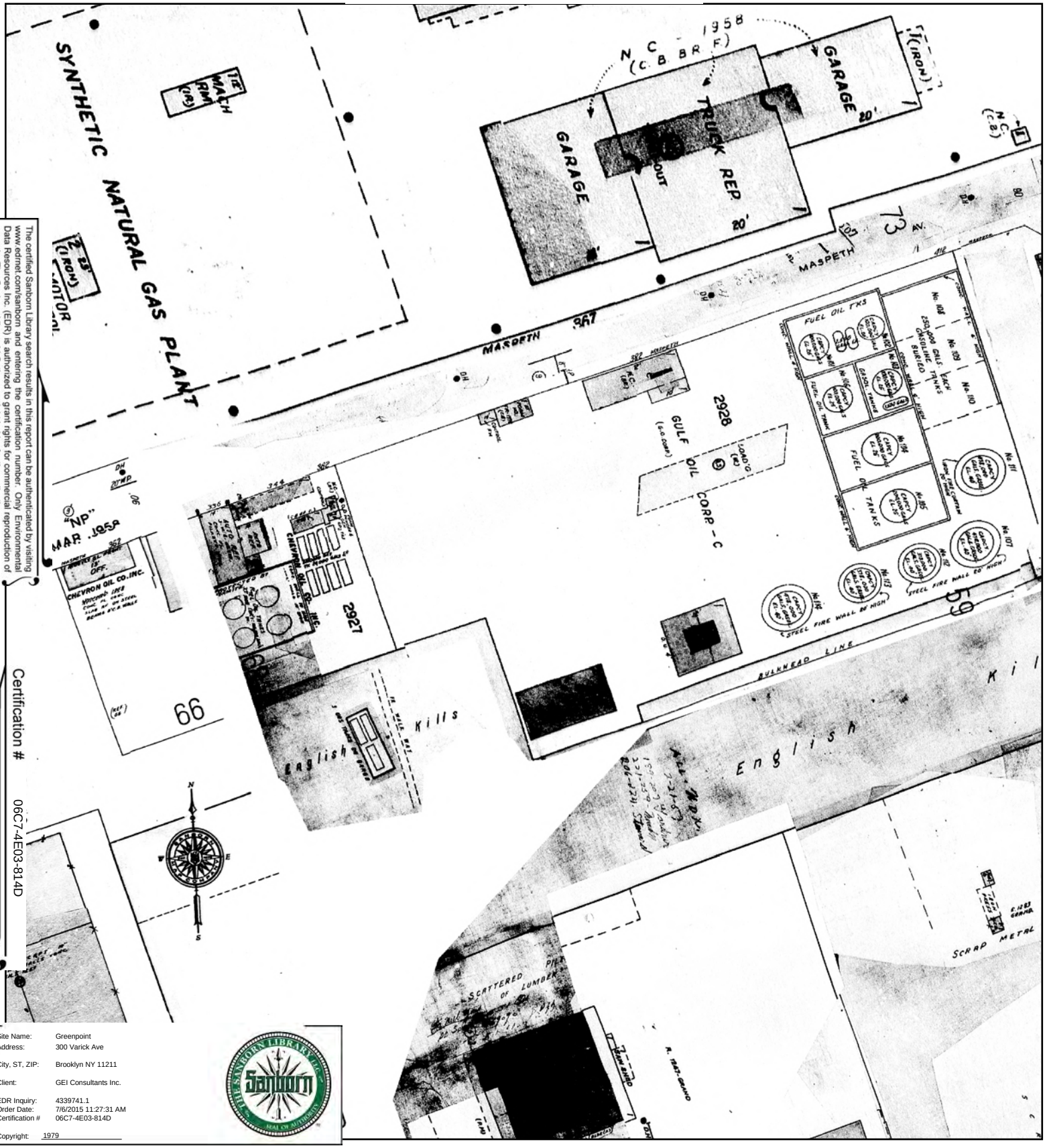

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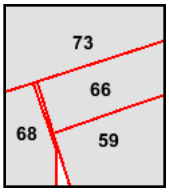

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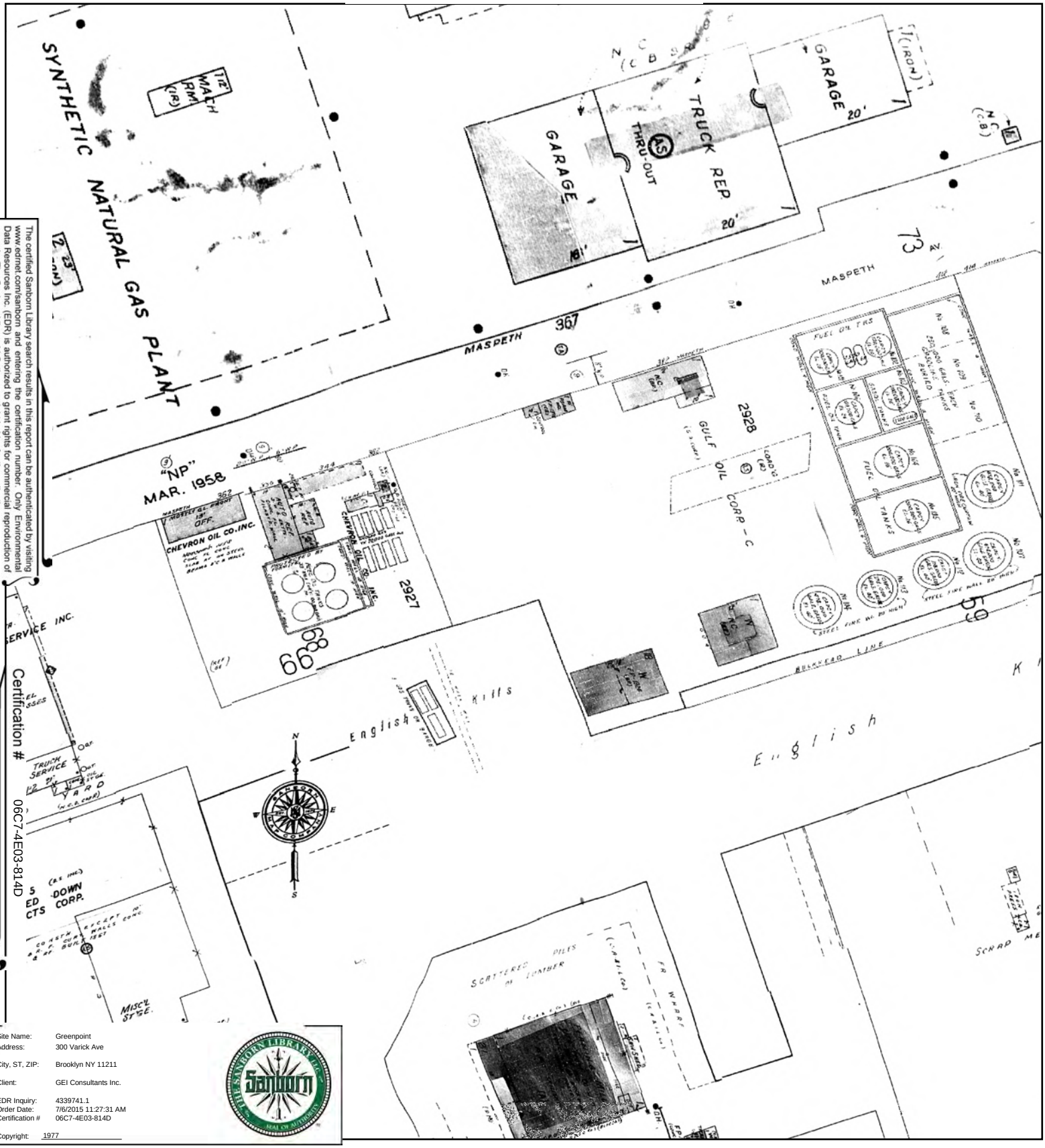
1977 Certified Sanborn Map



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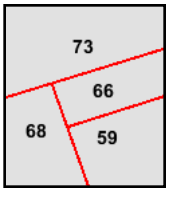

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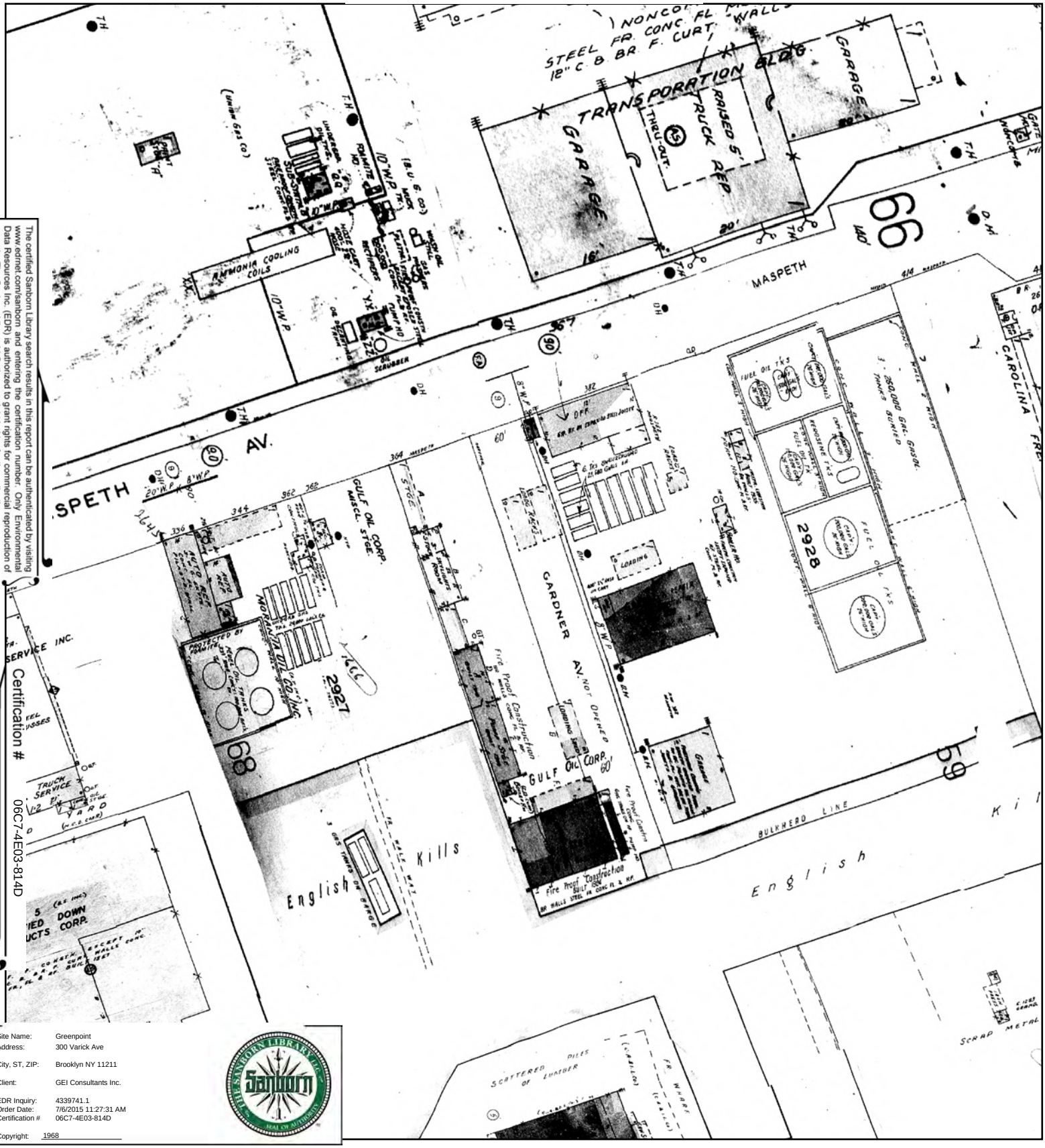
1968 Certified Sanborn Map



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Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1968

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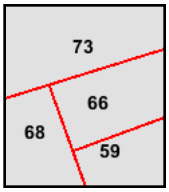

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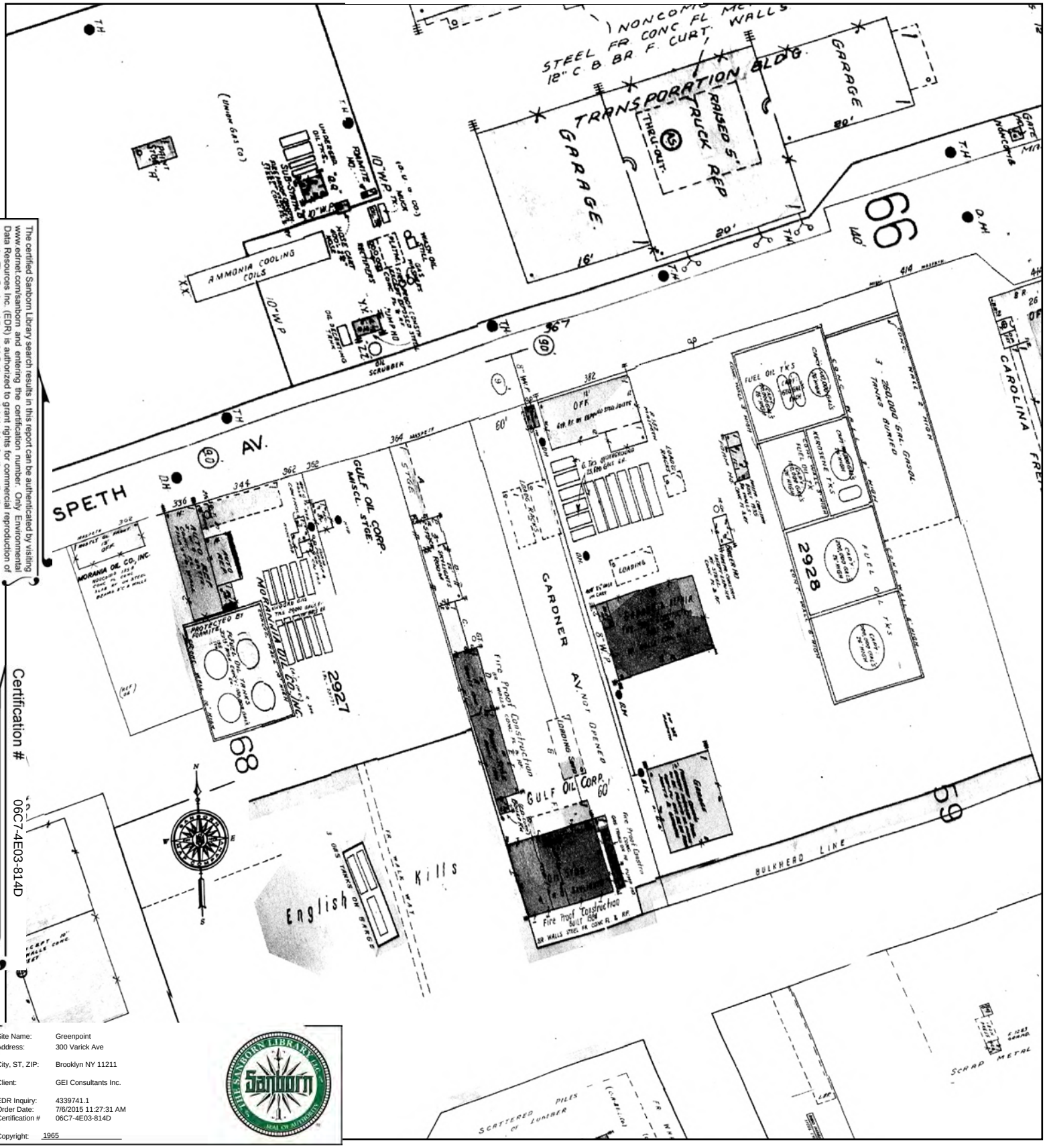
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1965 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1965

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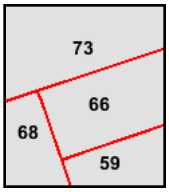

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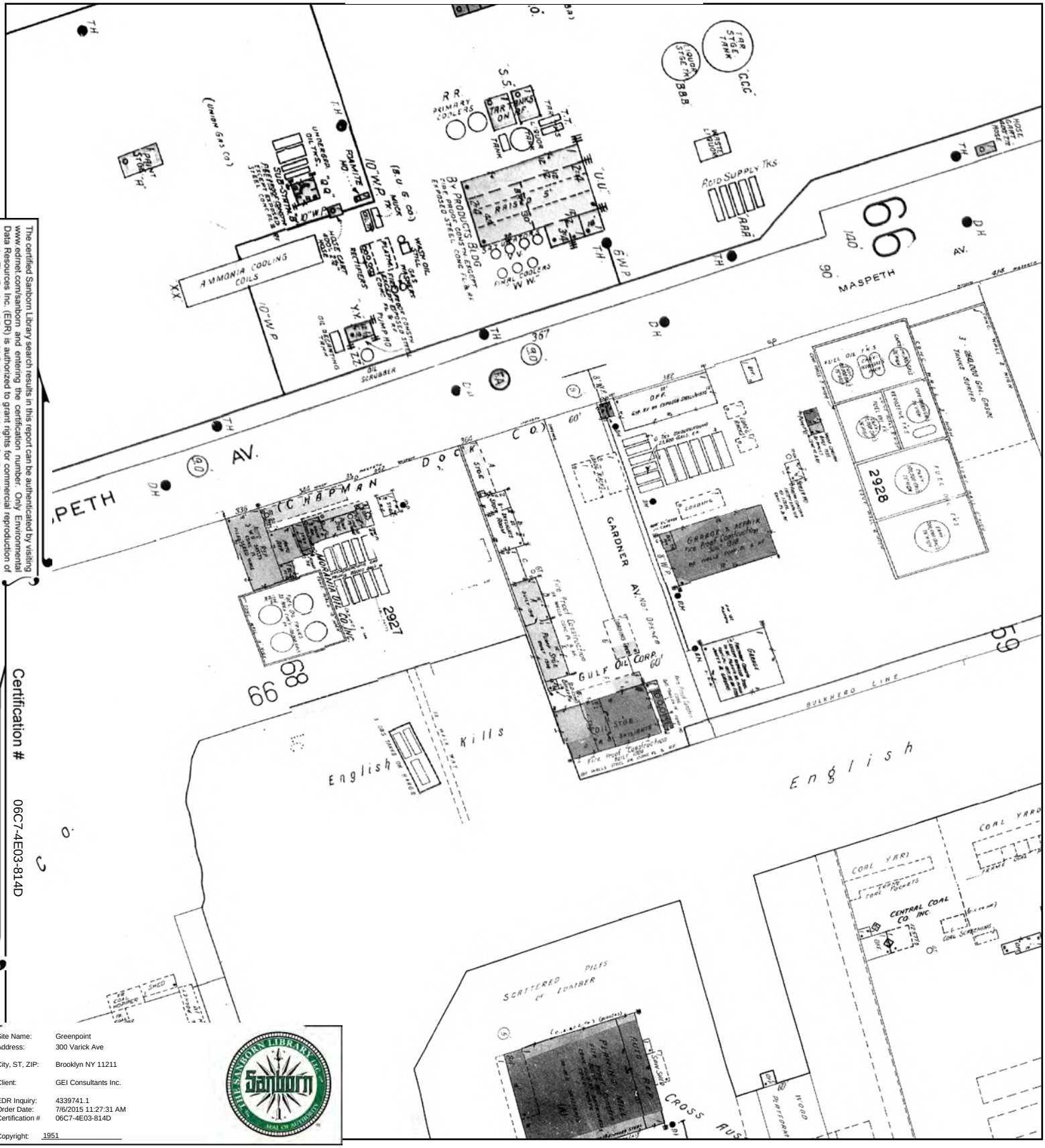
Volume 9, Sheet 73

0 Feet 165 330 660

N

1951 Certified Sanborn Map



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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
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Certification # 06C7-4E03-814D
Copyright: 1951

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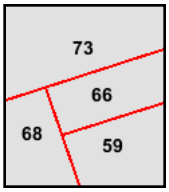

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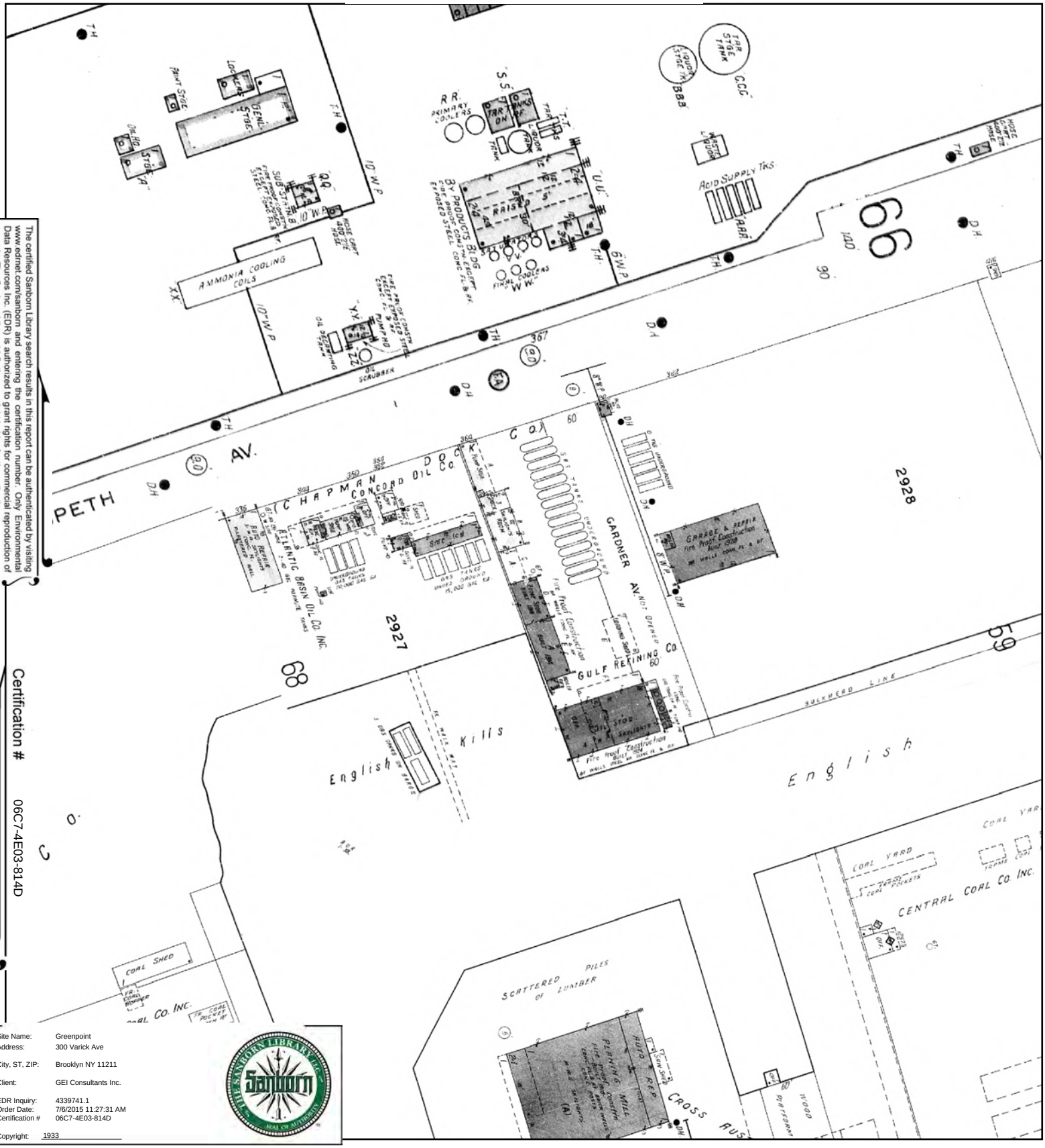
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1933 Certified Sanborn Map



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Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1933

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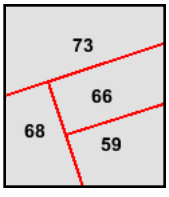

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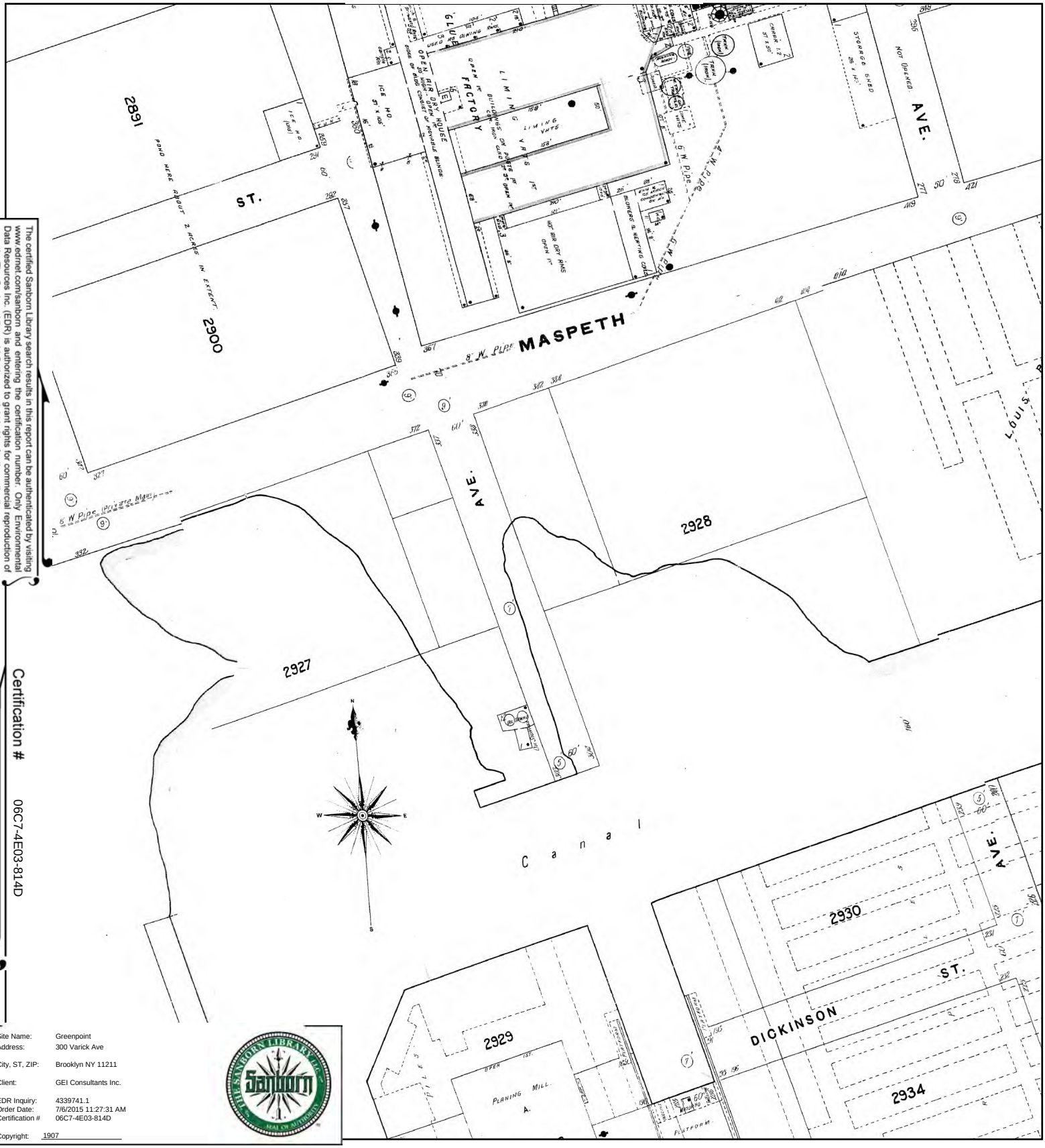
Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 165 330 660

N

1907 Certified Sanborn Map



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Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Certification #	06C7-4E03-814D
Copyright:	1907

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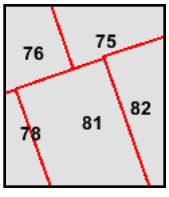

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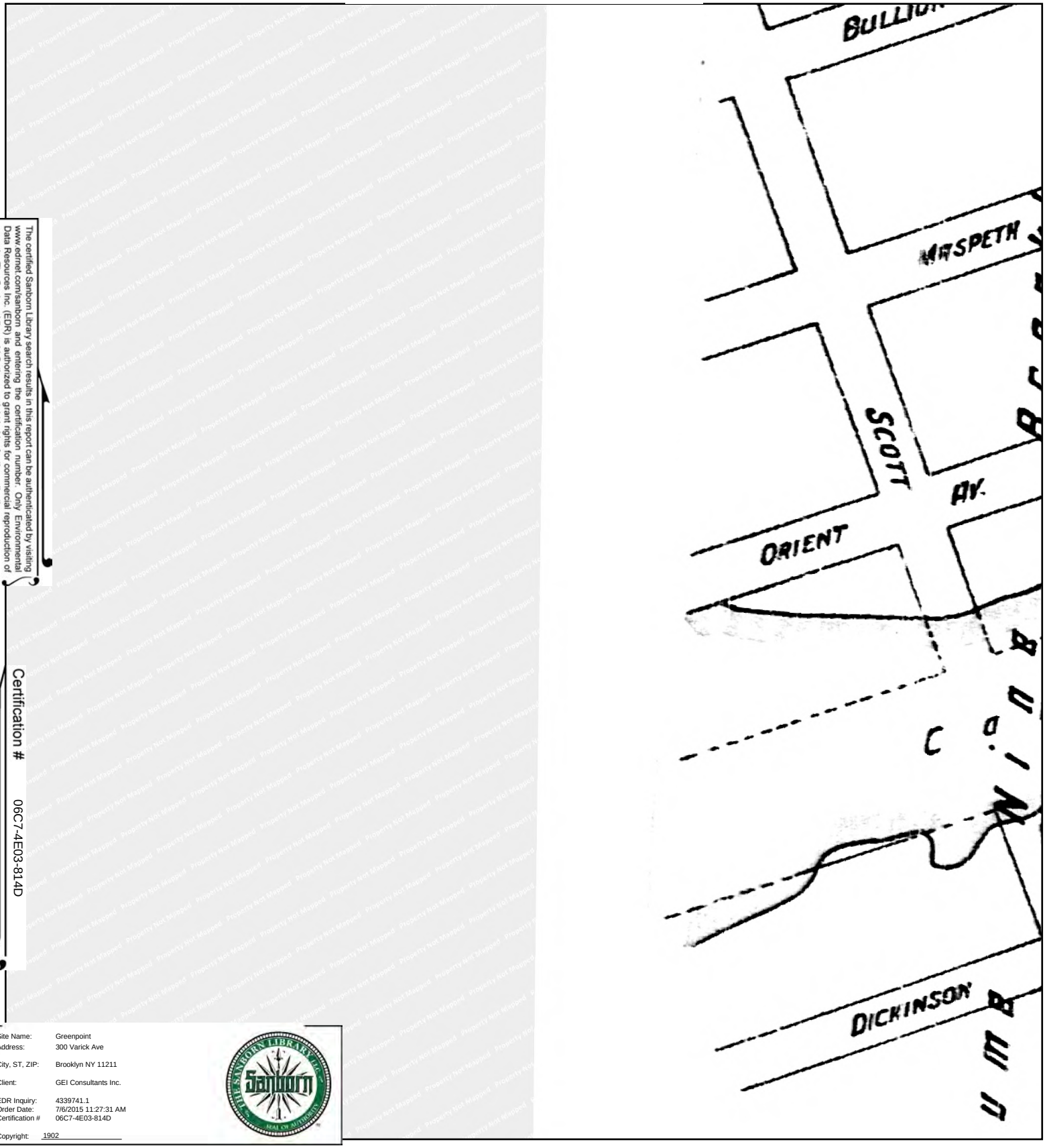
Volume 9, Sheet 78
Volume 9, Sheet 81
Volume 9, Sheet 82

0 Feet 165 330 660

N

1902 Certified Sanborn Map



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Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1902

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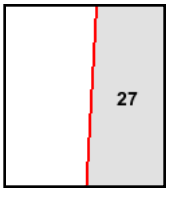

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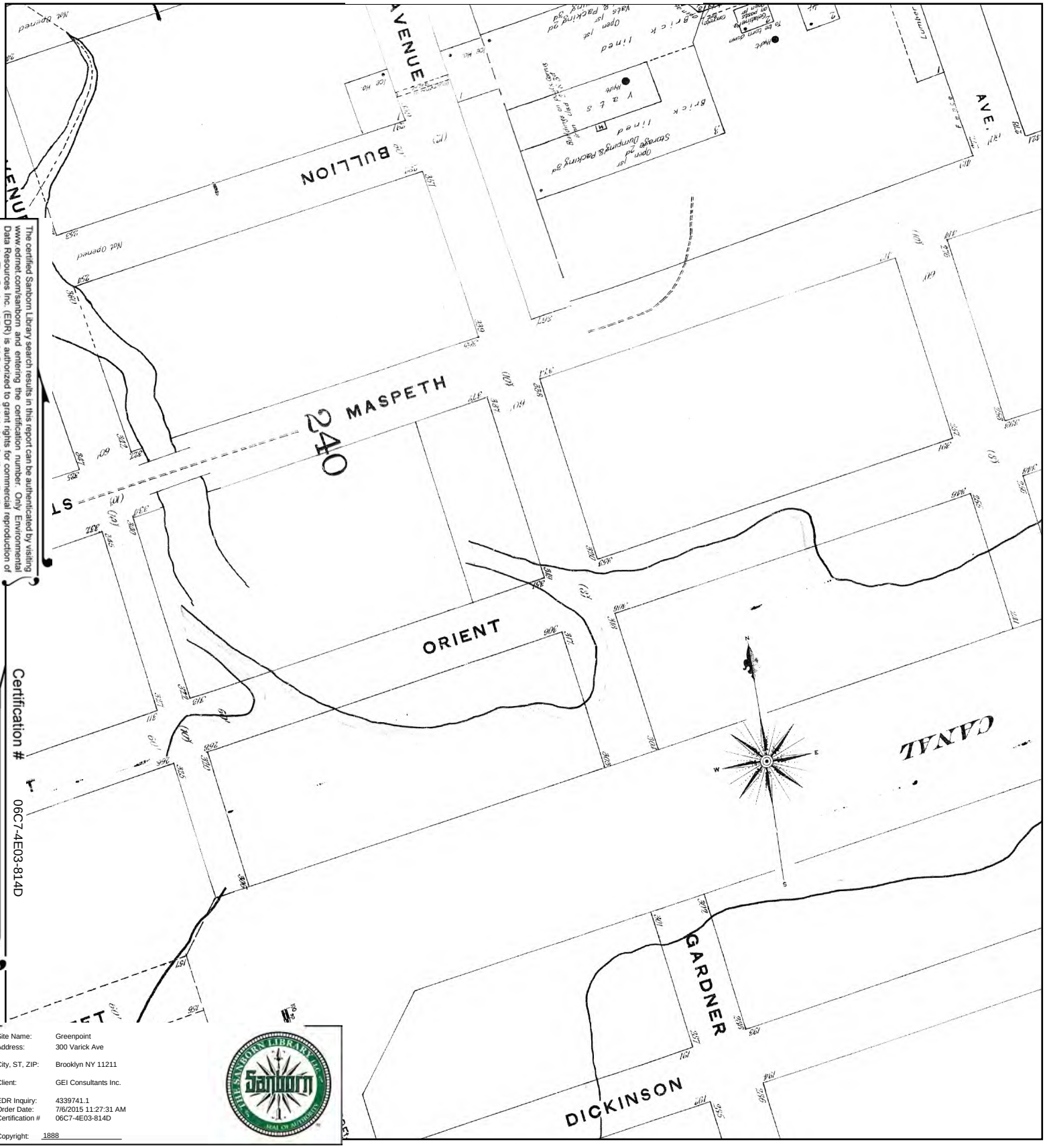
0 Feet 165 330 660

N

1888 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1888

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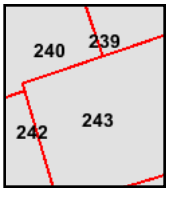

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Volume 9, Sheet 243
Volume 9, Sheet 239
Volume 9, Sheet 240

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1992	1986	1977
2006	1999	1991	1985	1968
2005	1996	1990	1982	1965
2004	1995	1989	1981	1951
2003	1994	1988	1980	1933
2002	1993	1987	1979	1914

1907
1902
1888

Sanborn® Library search results
Certification # 06C7-4E03-814D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

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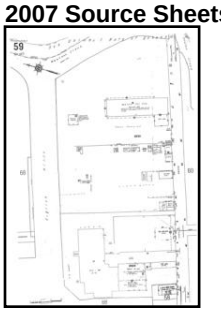

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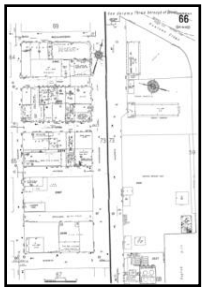

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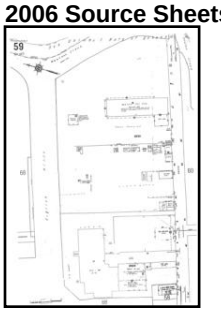
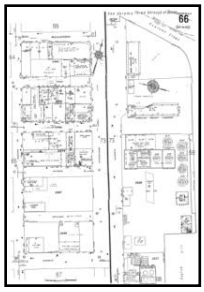
2006 Source Sheets



Volume 9, Sheet 59



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Volume 9, Sheet 73



Volume 3, Sheet 110

2005 Source Sheets



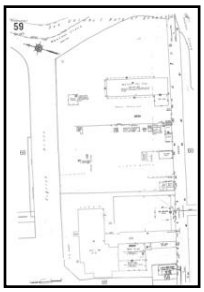
Volume 3, Sheet 28



Volume 3, Sheet 110



Volume 9, Sheet 73



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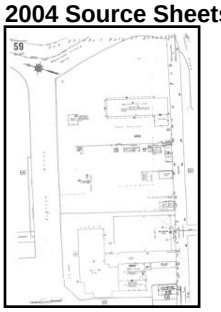
2004 Source Sheets



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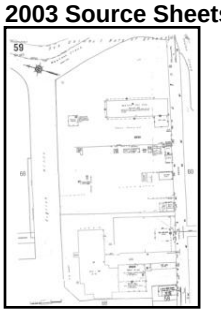
2003 Source Sheets



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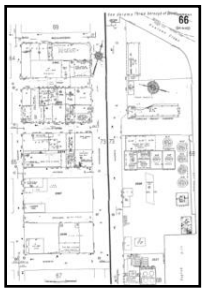

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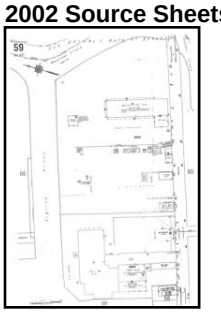
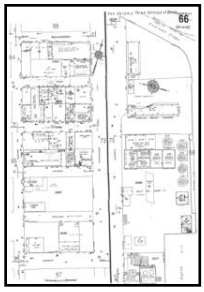
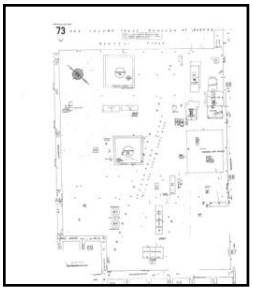
2002 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66



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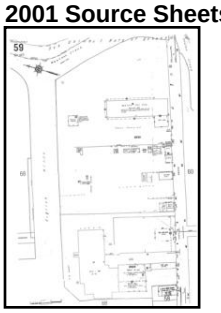
2001 Source Sheets



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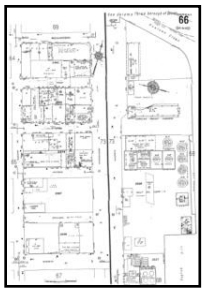

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1999 Source Sheets



Volume 3, Sheet 110

1996 Source Sheets

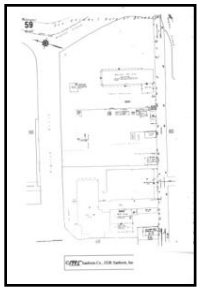


Volume 3, Sheet 110

1995 Source Sheets



Volume 3, Sheet 110



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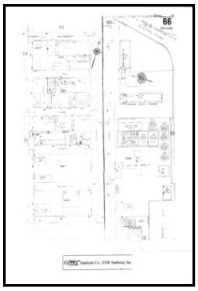

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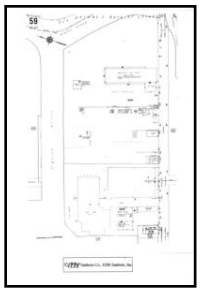
1994 Source Sheets



Volume 3, Sheet 110



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Volume 9, Sheet 66



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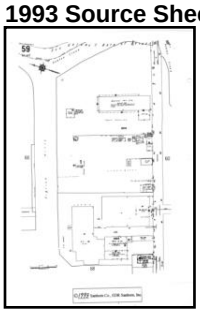
1993 Source Sheets



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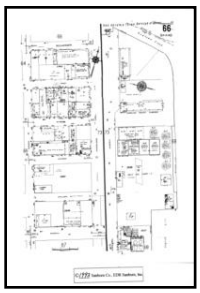

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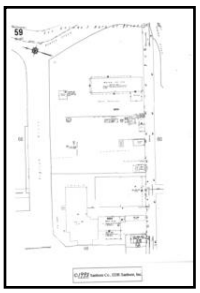
Volume 9, Sheet 73



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Volume 3, Sheet 110



1992 Source Sheets



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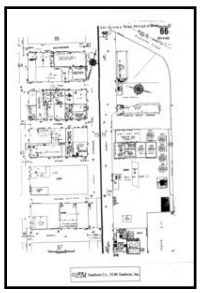

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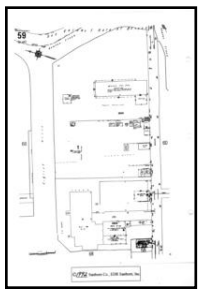

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1991 Source Sheets



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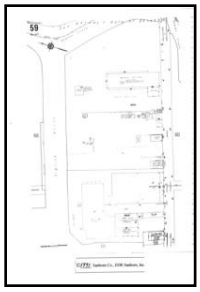

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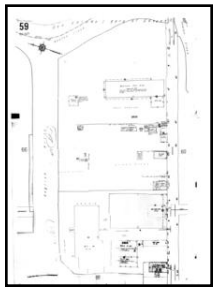
1990 Source Sheets



Volume 3, Sheet 28



Volume 3, Sheet 110



Volume 9, Sheet 59

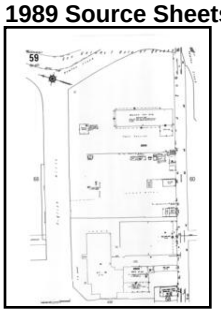


Volume 9, Sheet 66

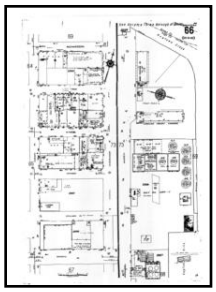


Volume 9, Sheet 73

1989 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66



Volume 9, Sheet 73

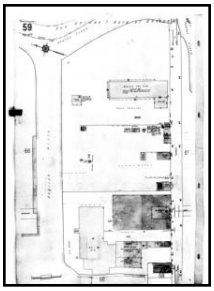
1988 Source Sheets



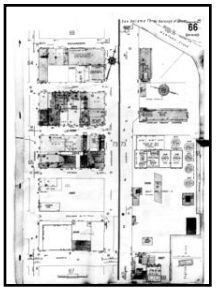
Volume 3, Sheet 28



Volume 3, Sheet 110



Volume 9, Sheet 59

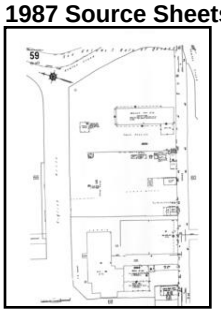


Volume 9, Sheet 66



Volume 9, Sheet 73

1987 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66



Volume 9, Sheet 73

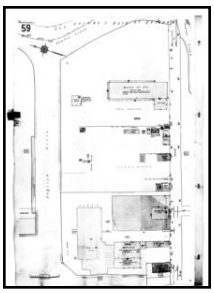
1986 Source Sheets



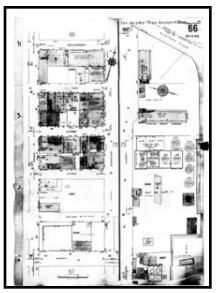
Volume 3, Sheet 110



Volume 3, Sheet 28



Volume 9, Sheet 59



Volume 9, Sheet 66



Volume 9, Sheet 73

1985 Source Sheets



Volume 3, Sheet 28



Volume 3, Sheet 110

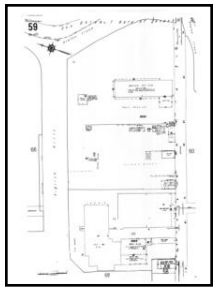
1982 Source Sheets



Volume 3, Sheet 28



Volume 3, Sheet 110



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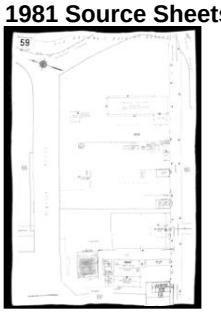
Volume 9, Sheet 66



Volume 9, Sheet 73

1981 Source Sheets



Volume 9, Sheet 59



Volume 9, Sheet 66

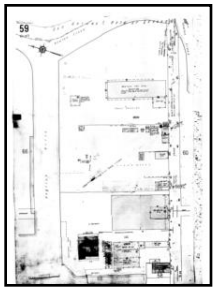


Volume 9, Sheet 73

1980 Source Sheets



Volume 3, Sheet 110



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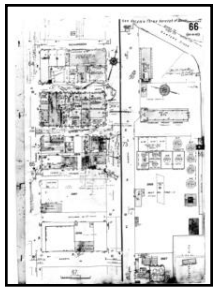

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Volume 9, Sheet 73

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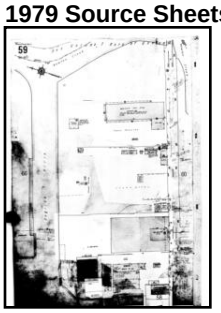

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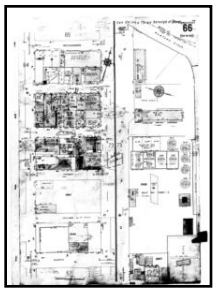

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Volume 9, Sheet 73

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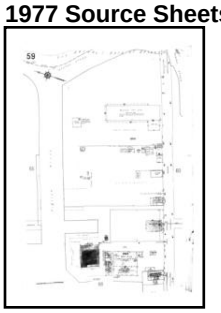

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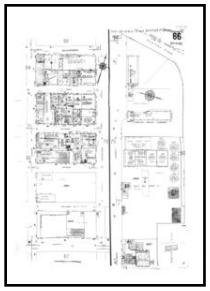

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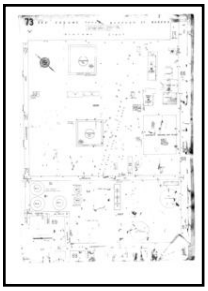
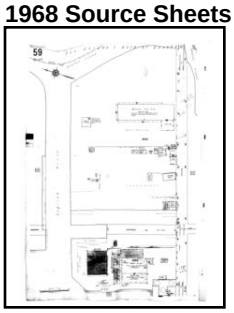


Volume 9, Sheet 73

1968 Source Sheets



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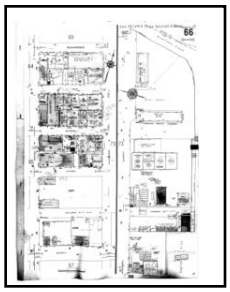

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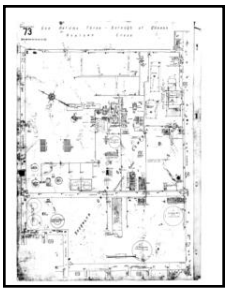

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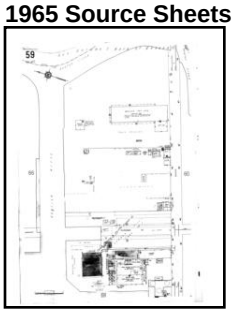
1965 Source Sheets



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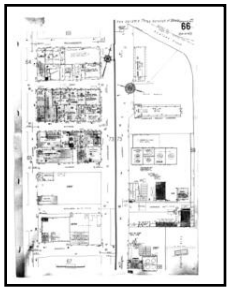

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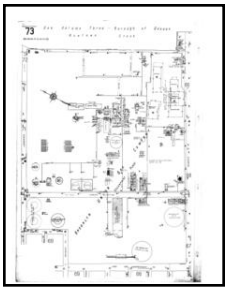

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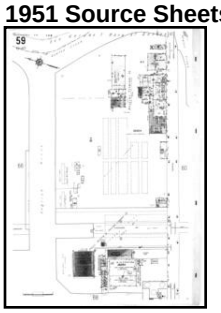

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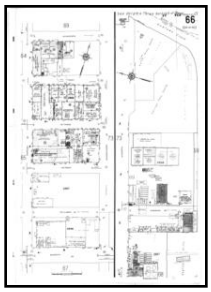

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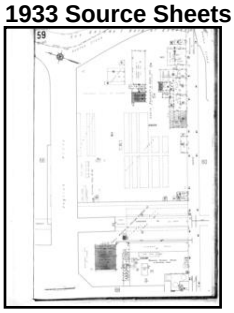
1933 Source Sheets



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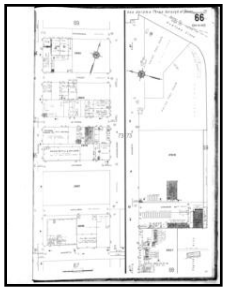

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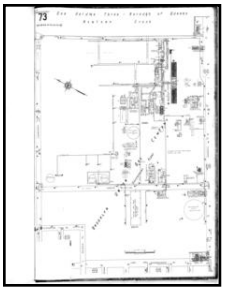

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1914 Source Sheets



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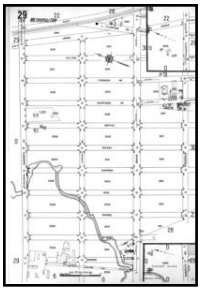
Volume 3, Sheet 28



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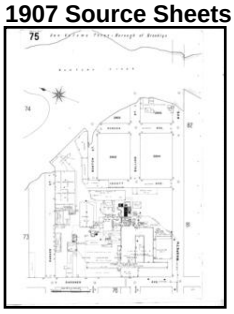
1907 Source Sheets



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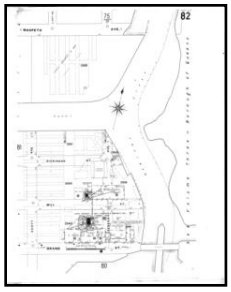

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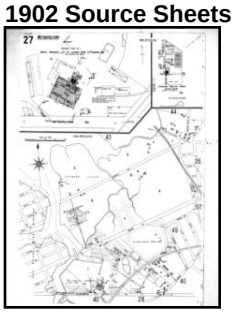
1902 Source Sheets



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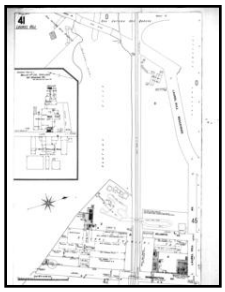

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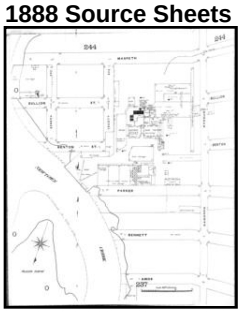
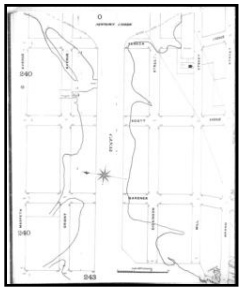
1888 Source Sheets



Volume 9, Sheet 239



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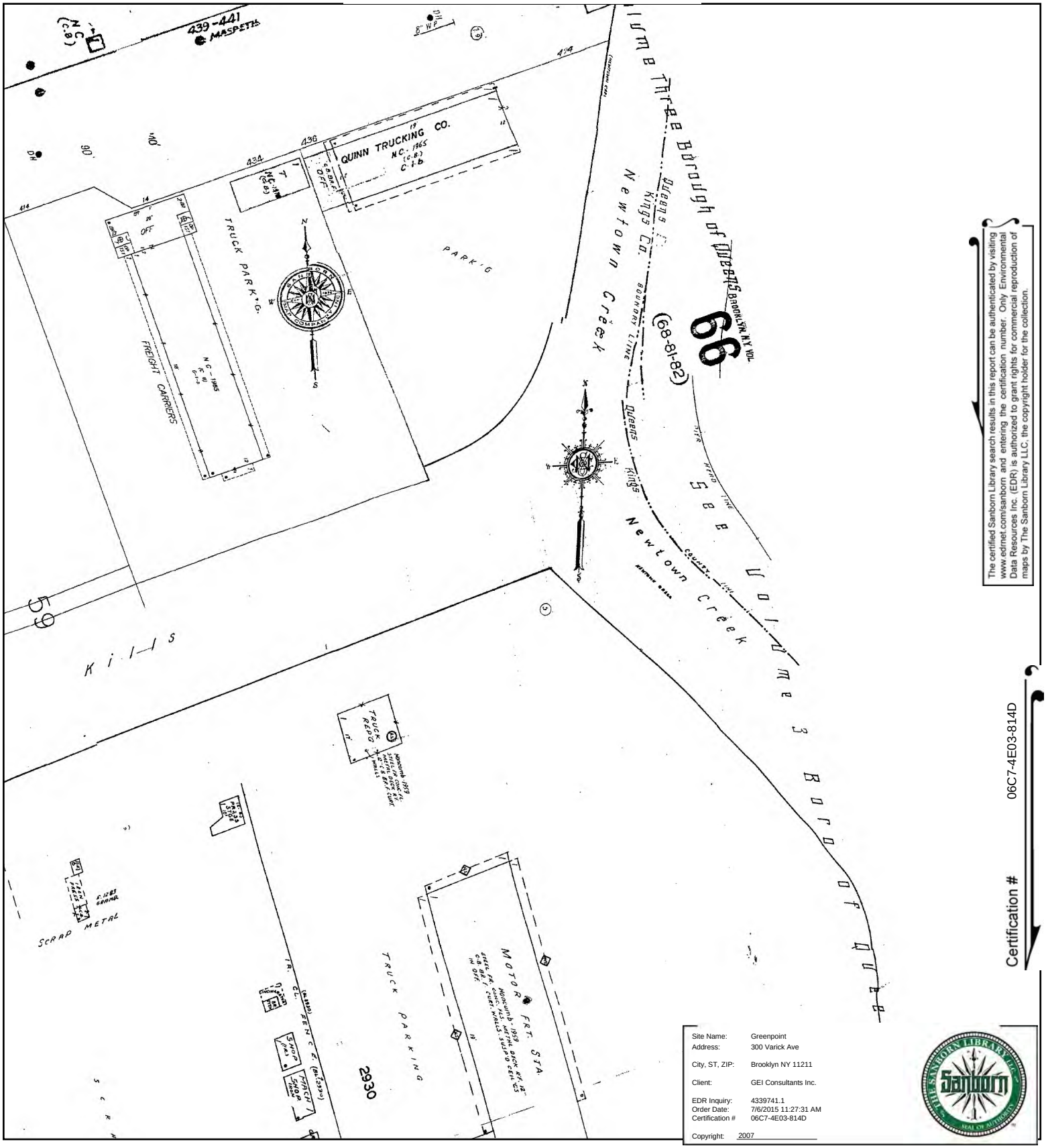
2007 Certified Sanborn Map



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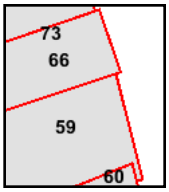

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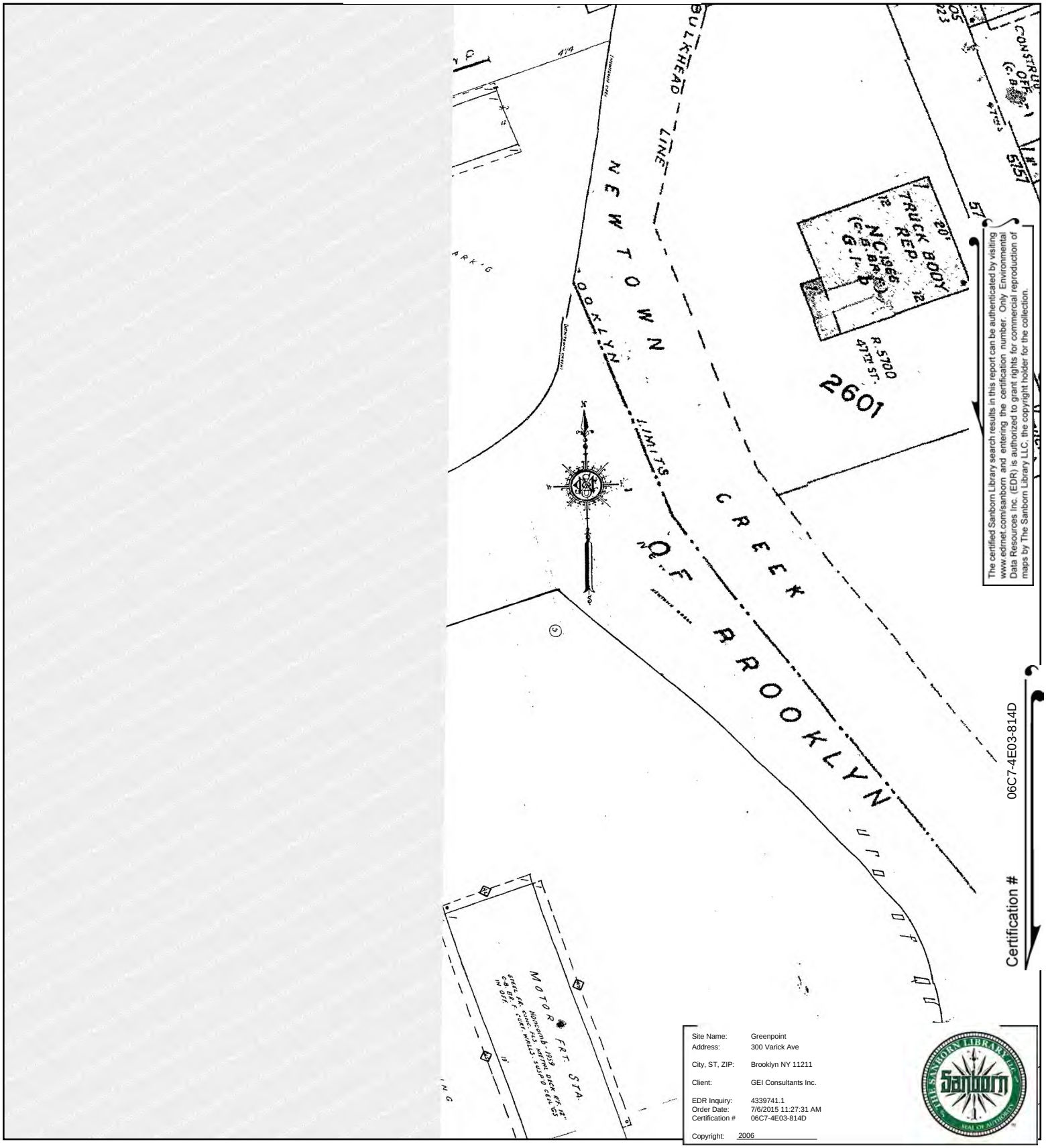
N

2006 Certified Sanborn Map



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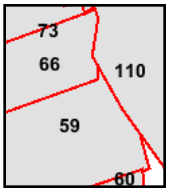

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Volume 9, Sheet 66
Volume 9, Sheet 73
Volume 3, Sheet 110

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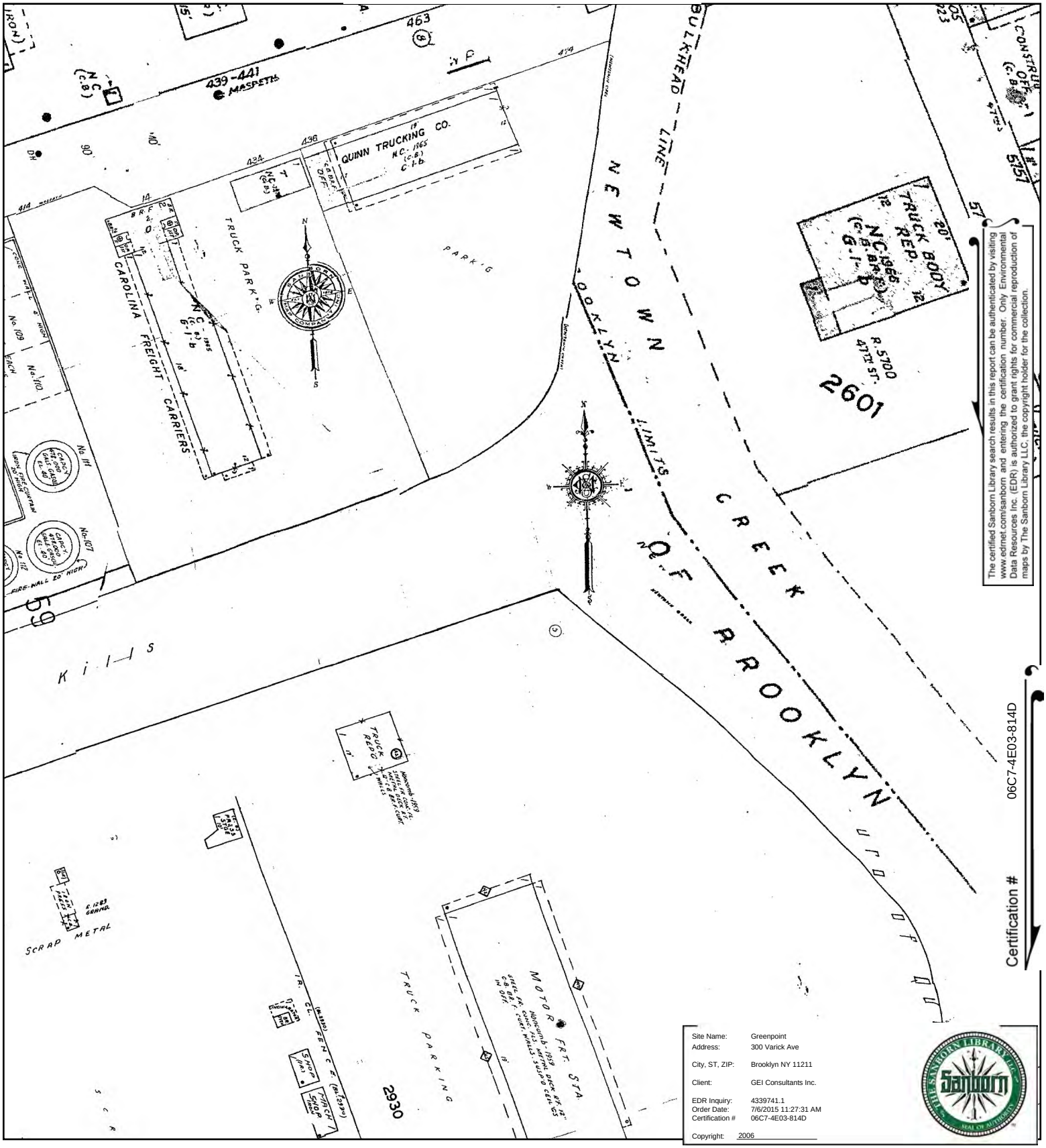

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City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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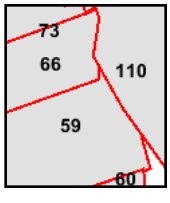

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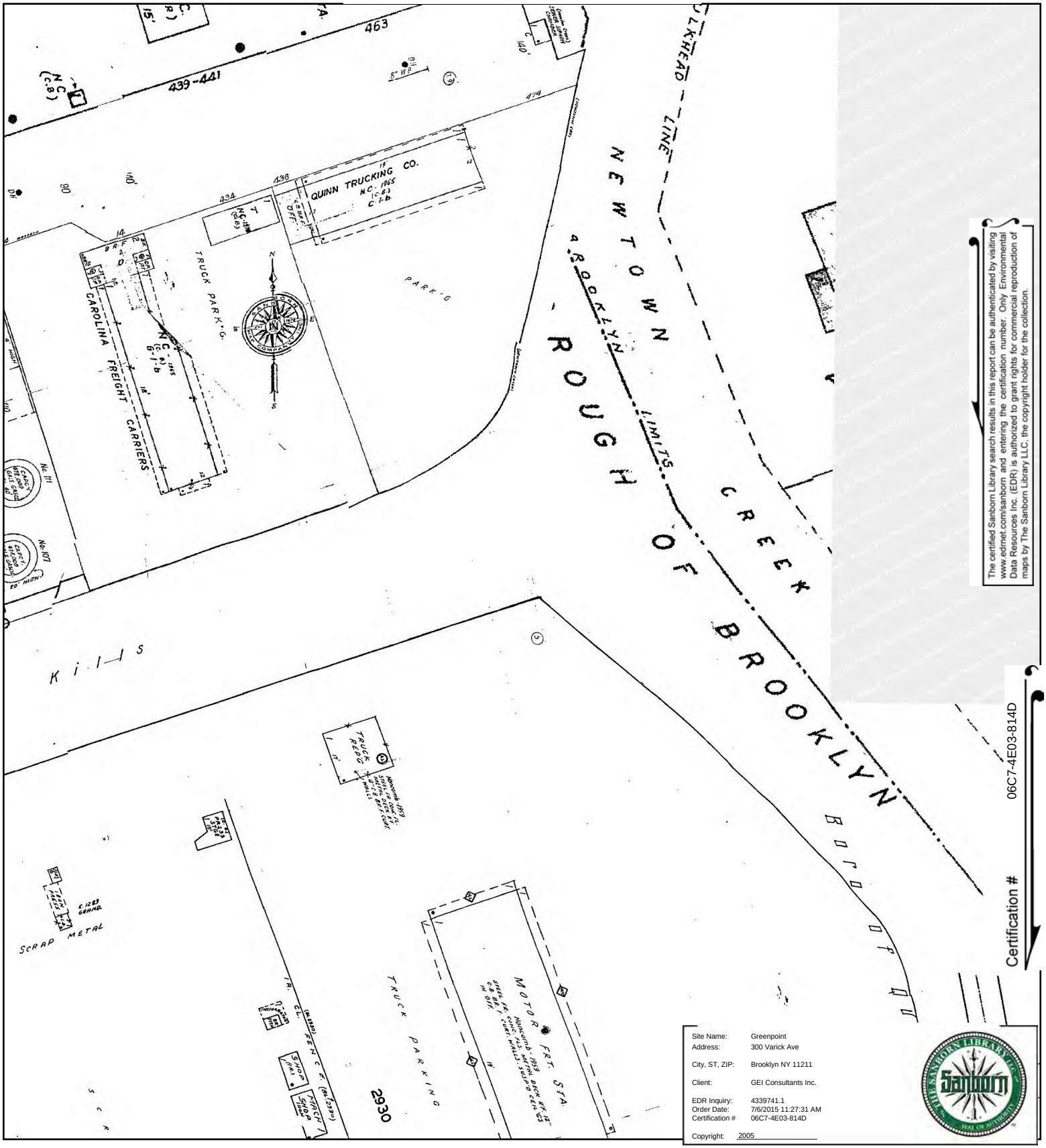
N

2005 Certified Sanborn Map



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Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
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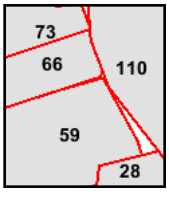

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Volume 9, Sheet 73
Volume 9, Sheet 59
Volume 9, Sheet 66

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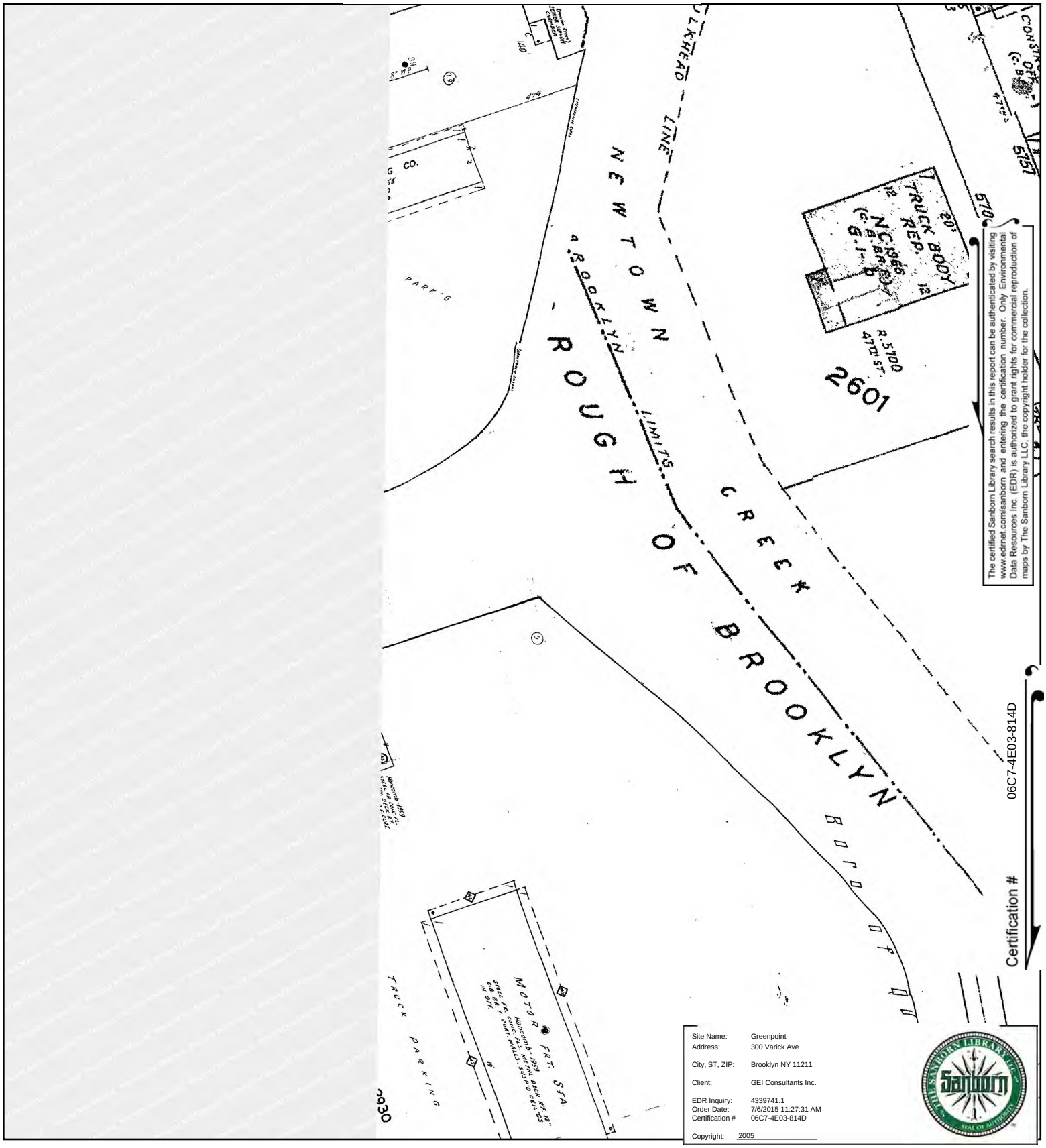

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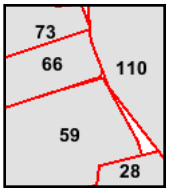

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Volume 9, Sheet 73
Volume 9, Sheet 59
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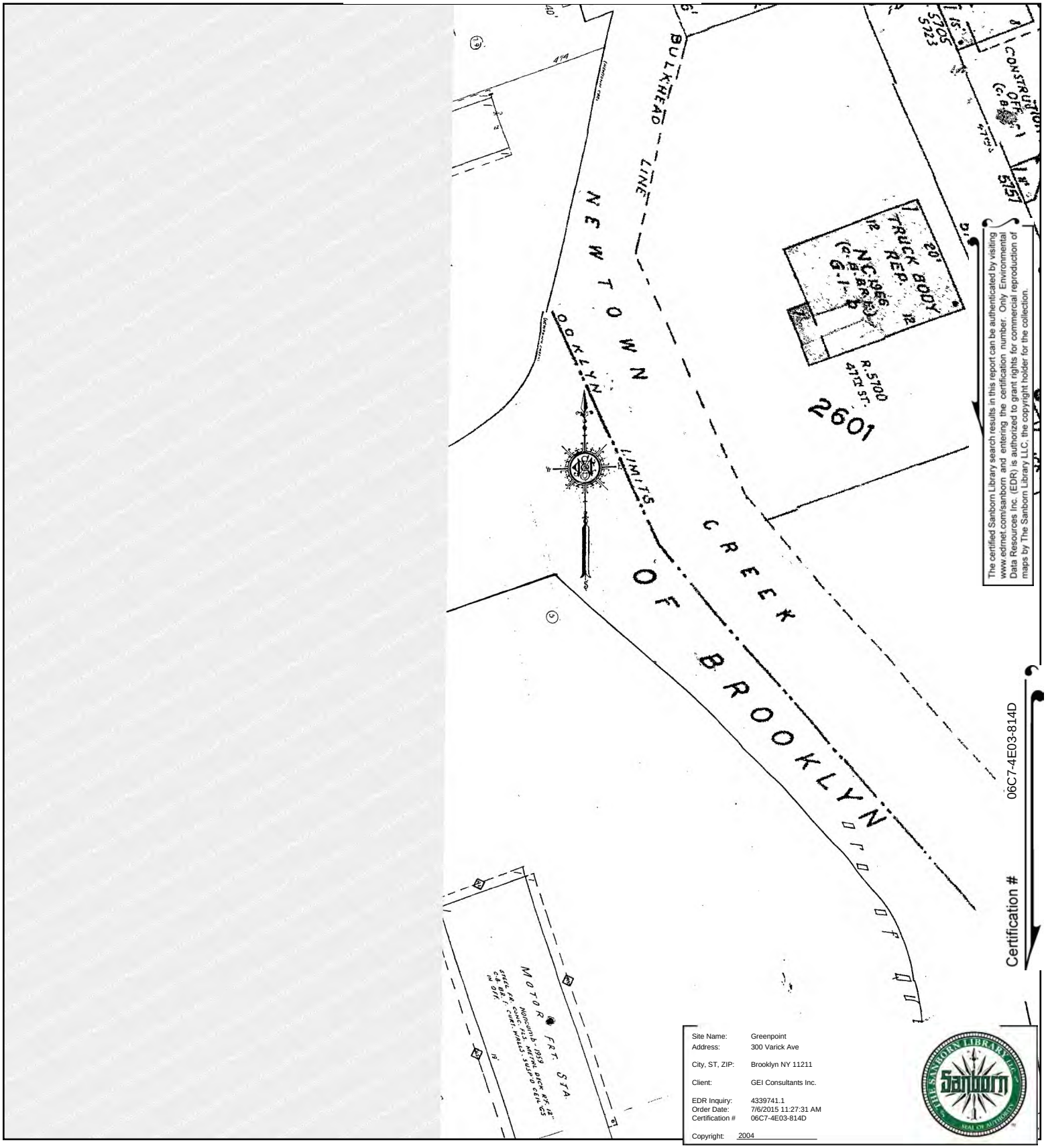

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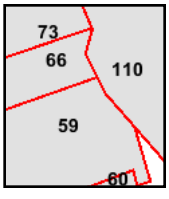

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Volume 3, Sheet 110

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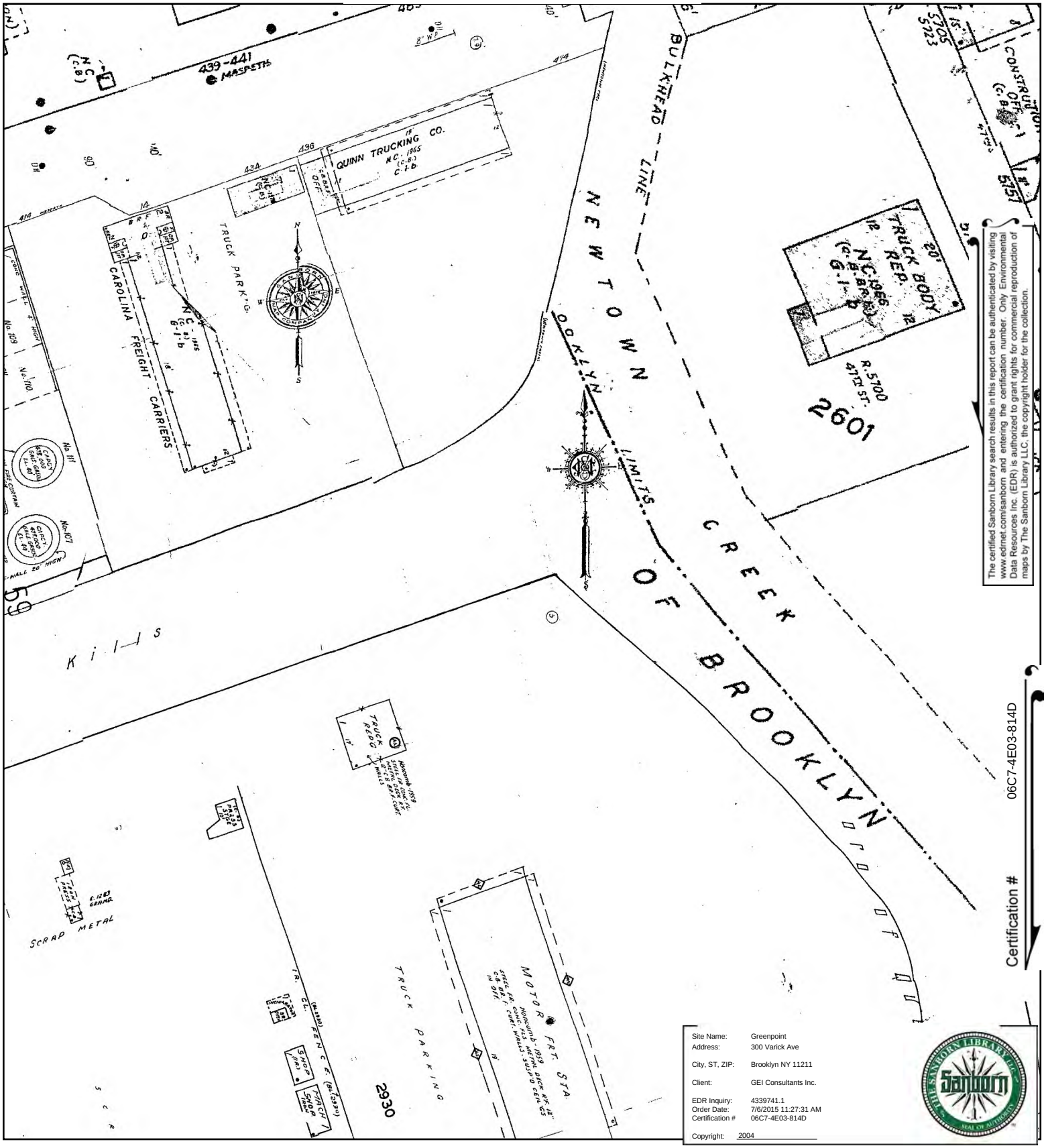

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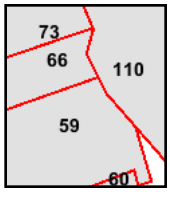

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Volume 9, Sheet 73
Volume 3, Sheet 110

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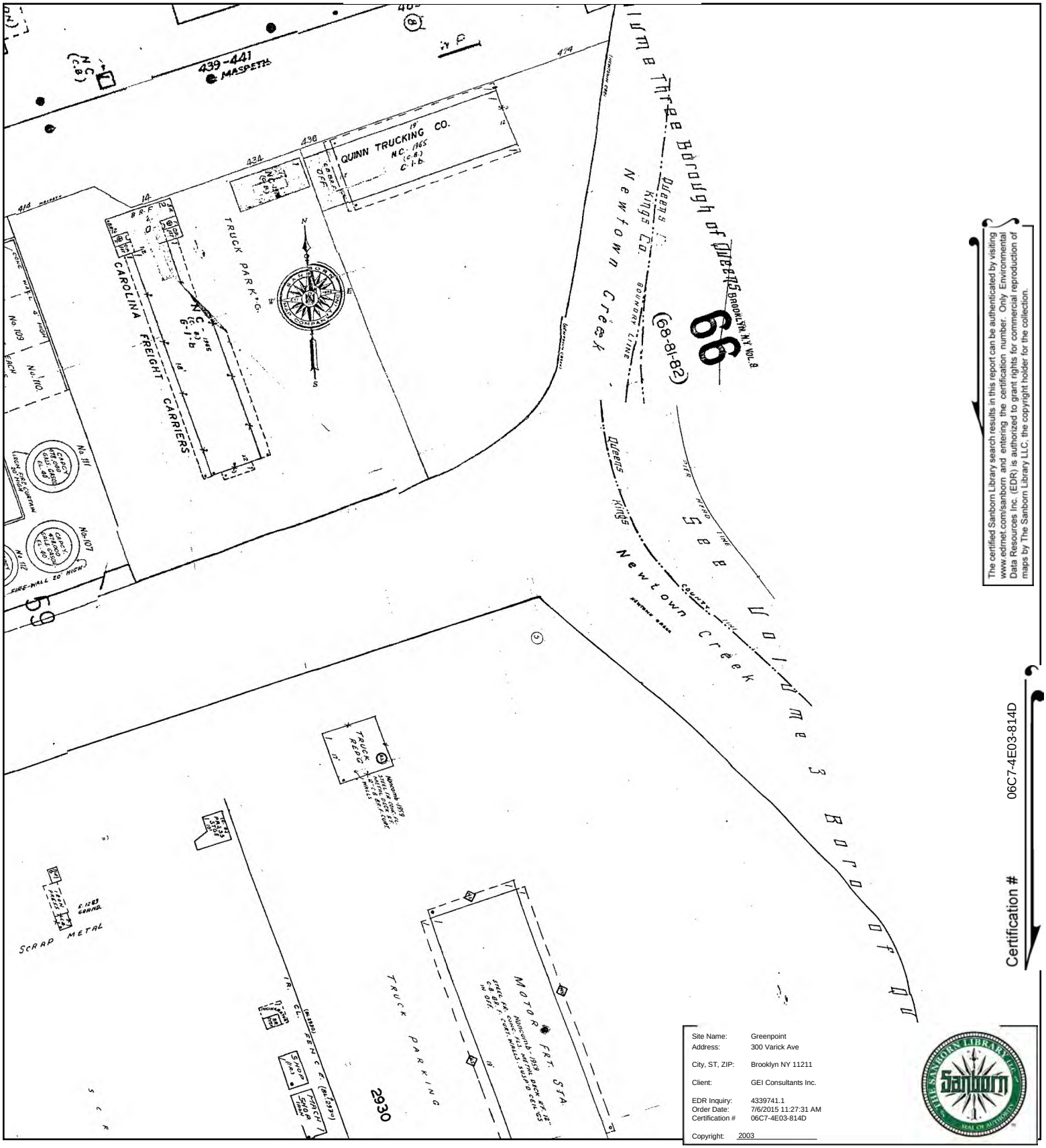

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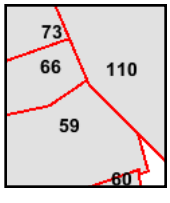

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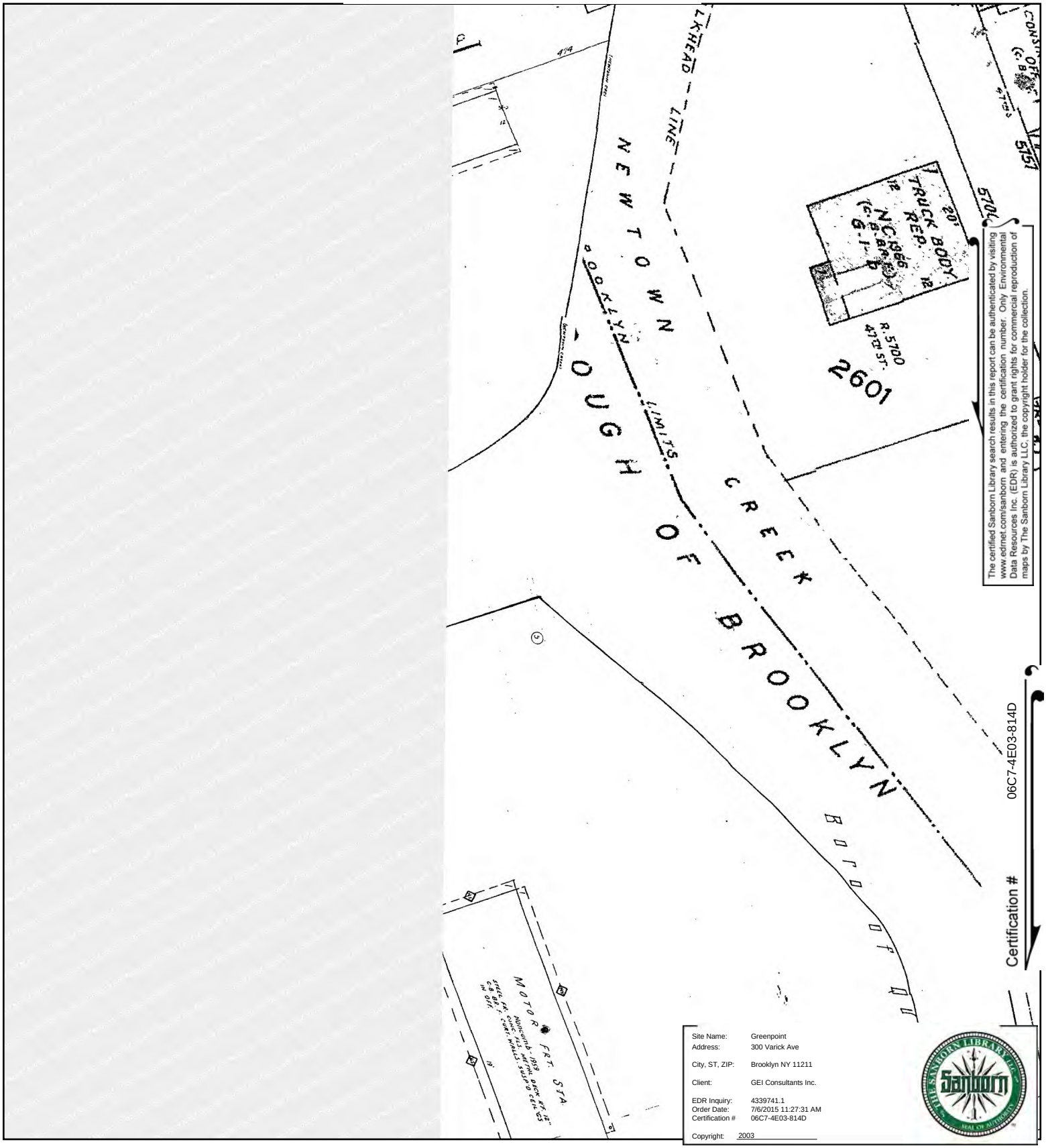

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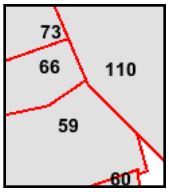

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Volume 9, Sheet 73
Volume 3, Sheet 110

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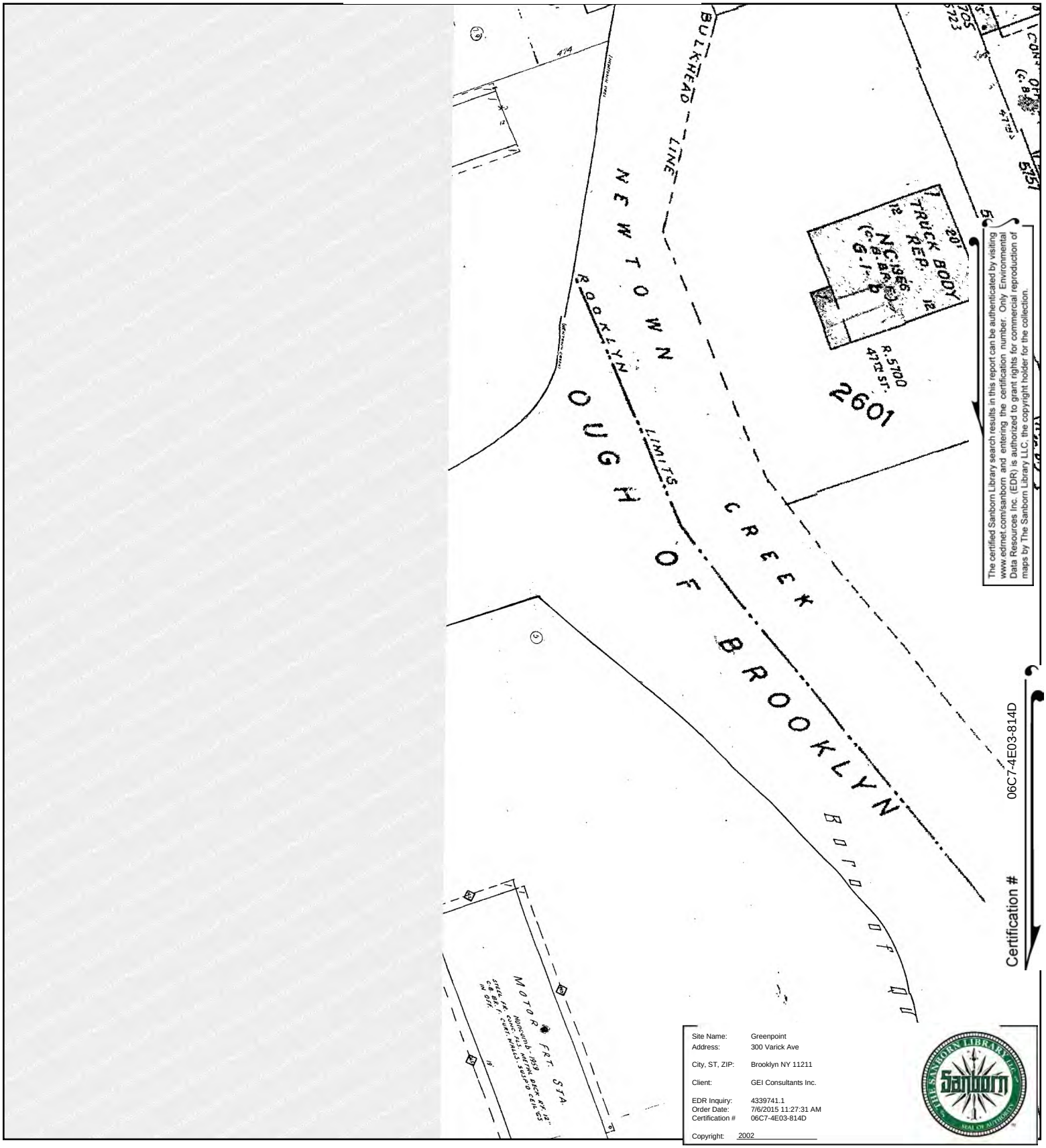

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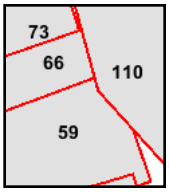

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Volume 9, Sheet 73
Volume 3, Sheet 110

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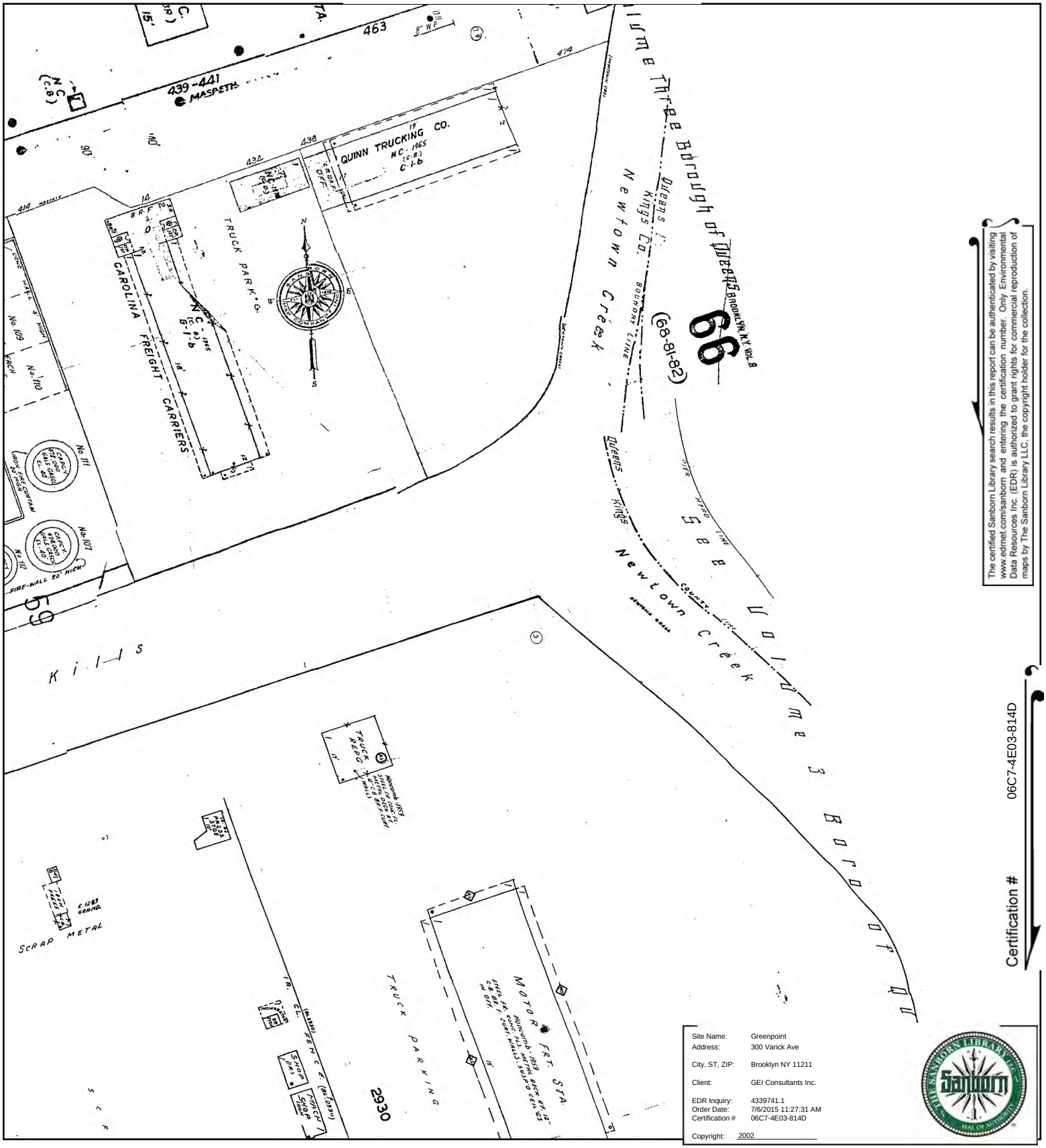

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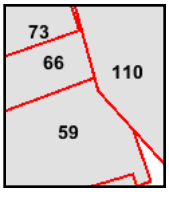

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Volume 9, Sheet 73
Volume 3, Sheet 110

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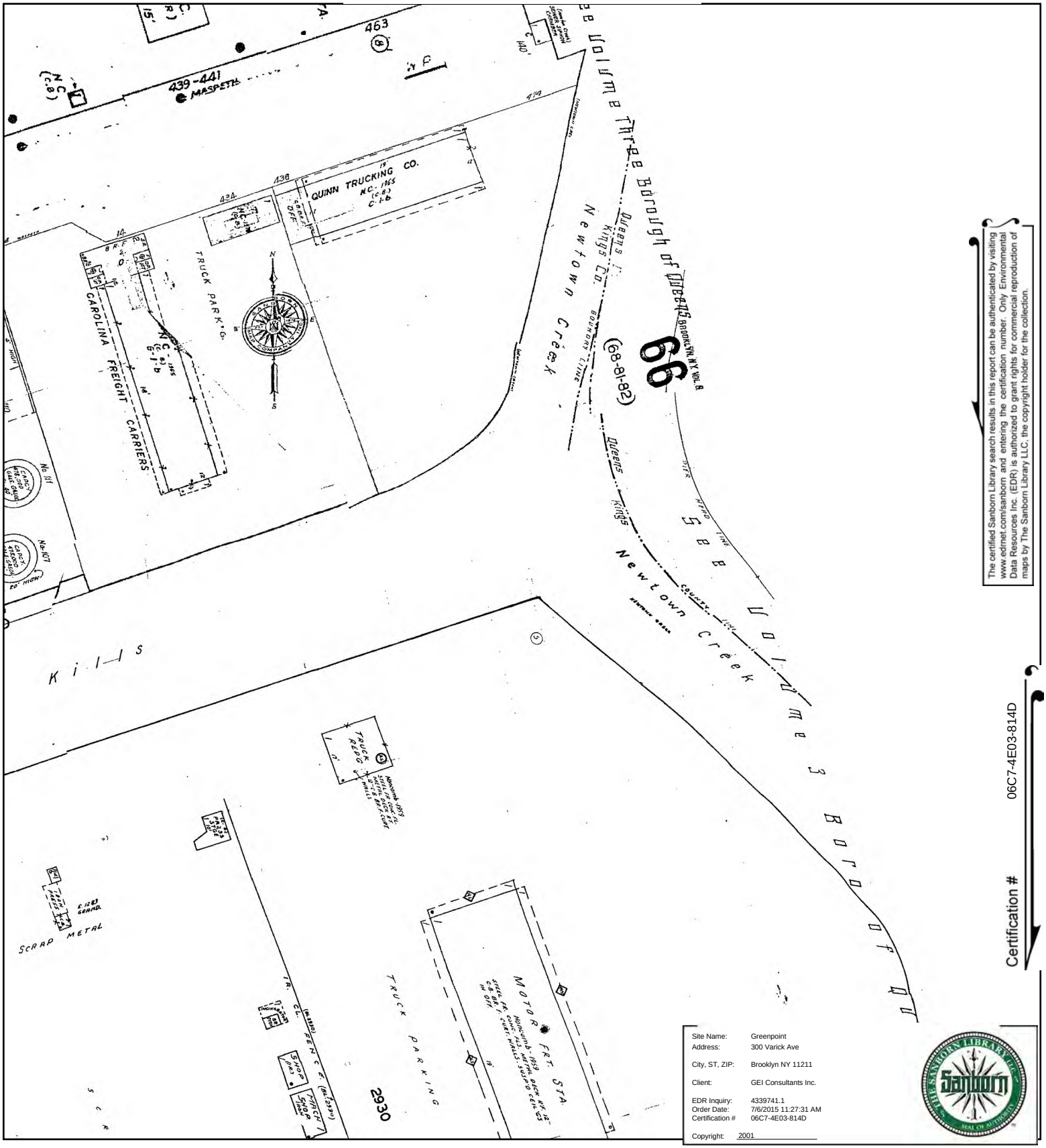

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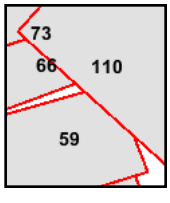

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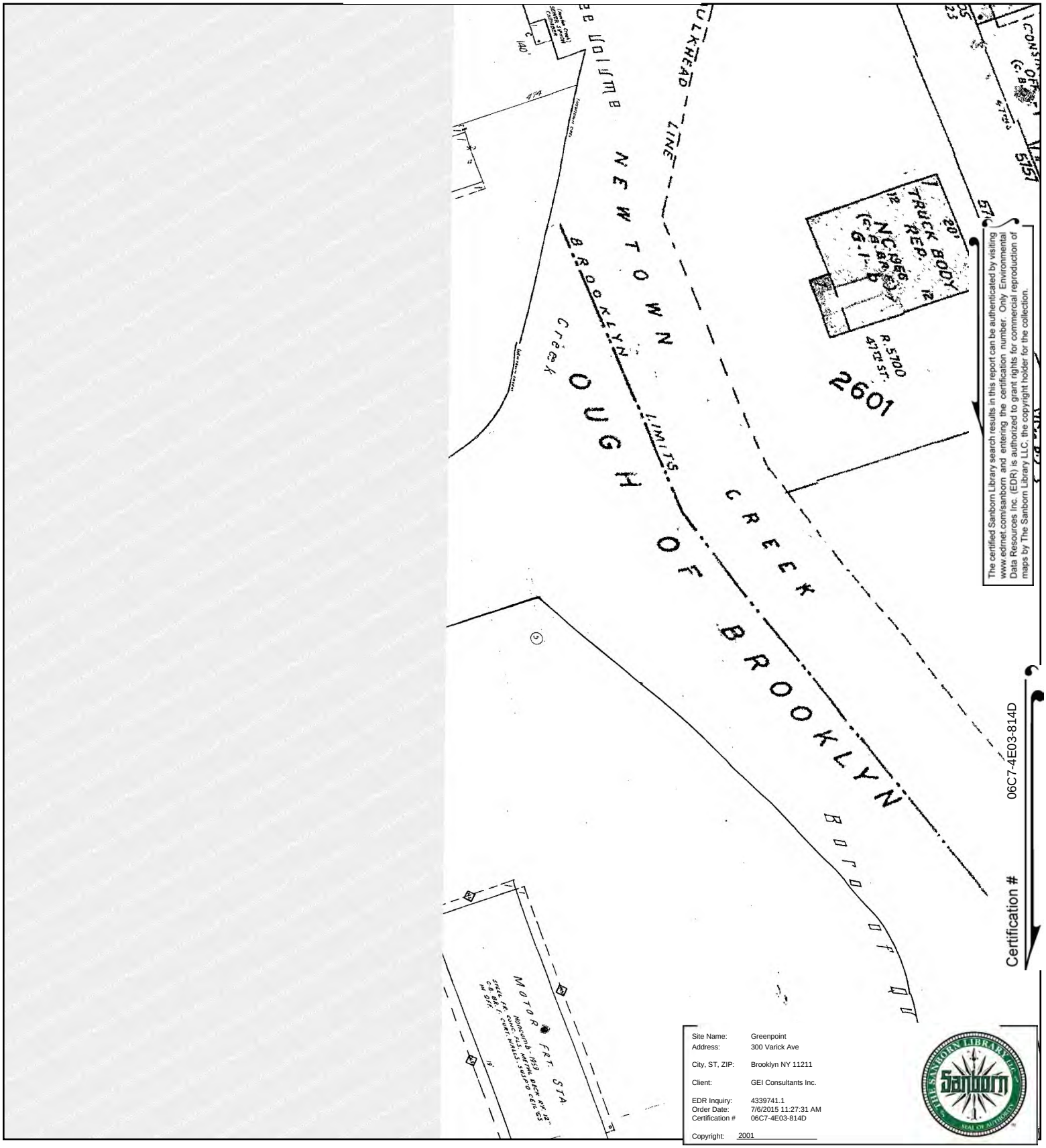

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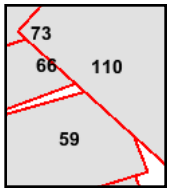

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Volume 9, Sheet 73
Volume 3, Sheet 110

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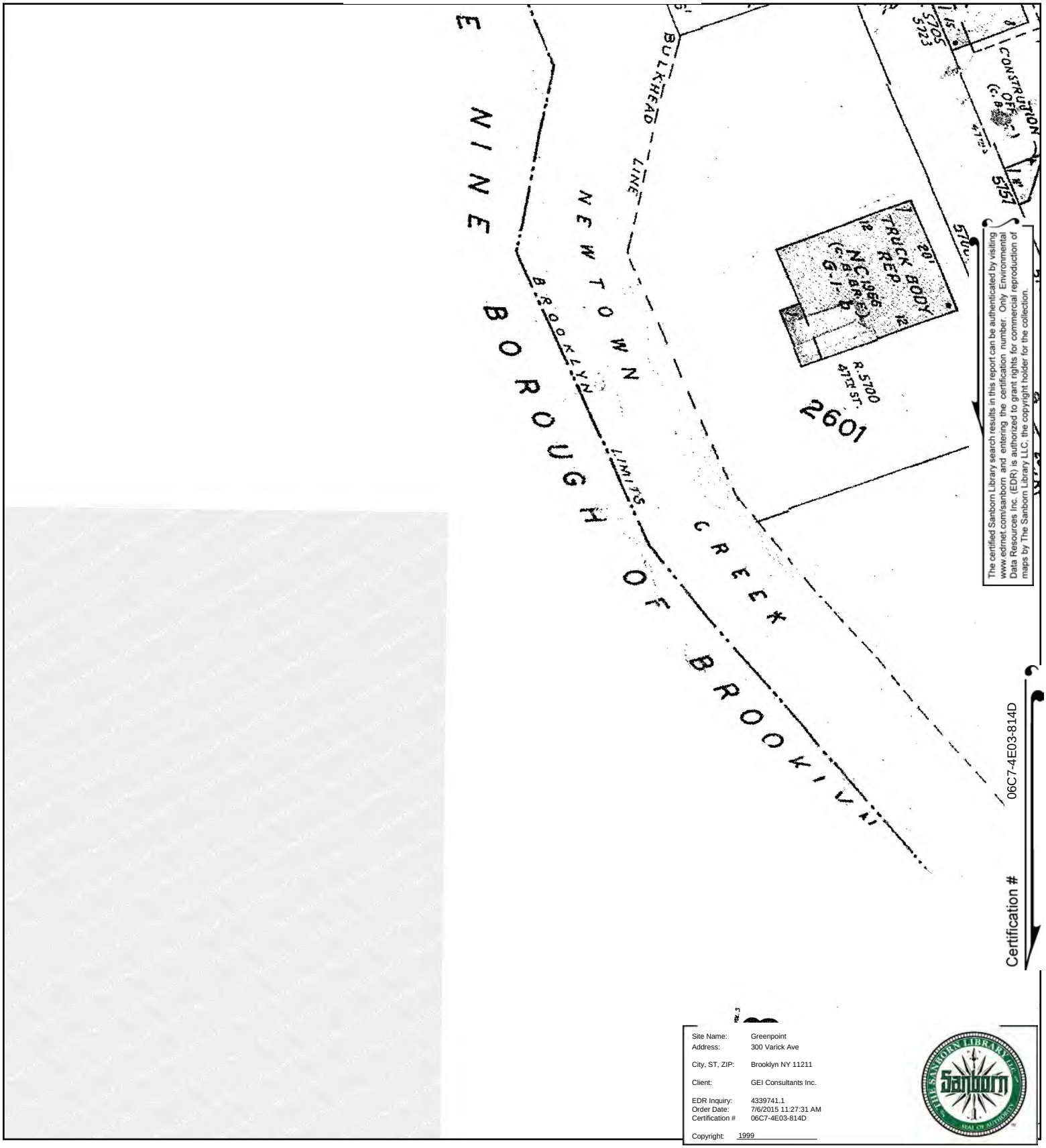

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Client: GEI Consultants Inc.
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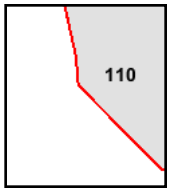

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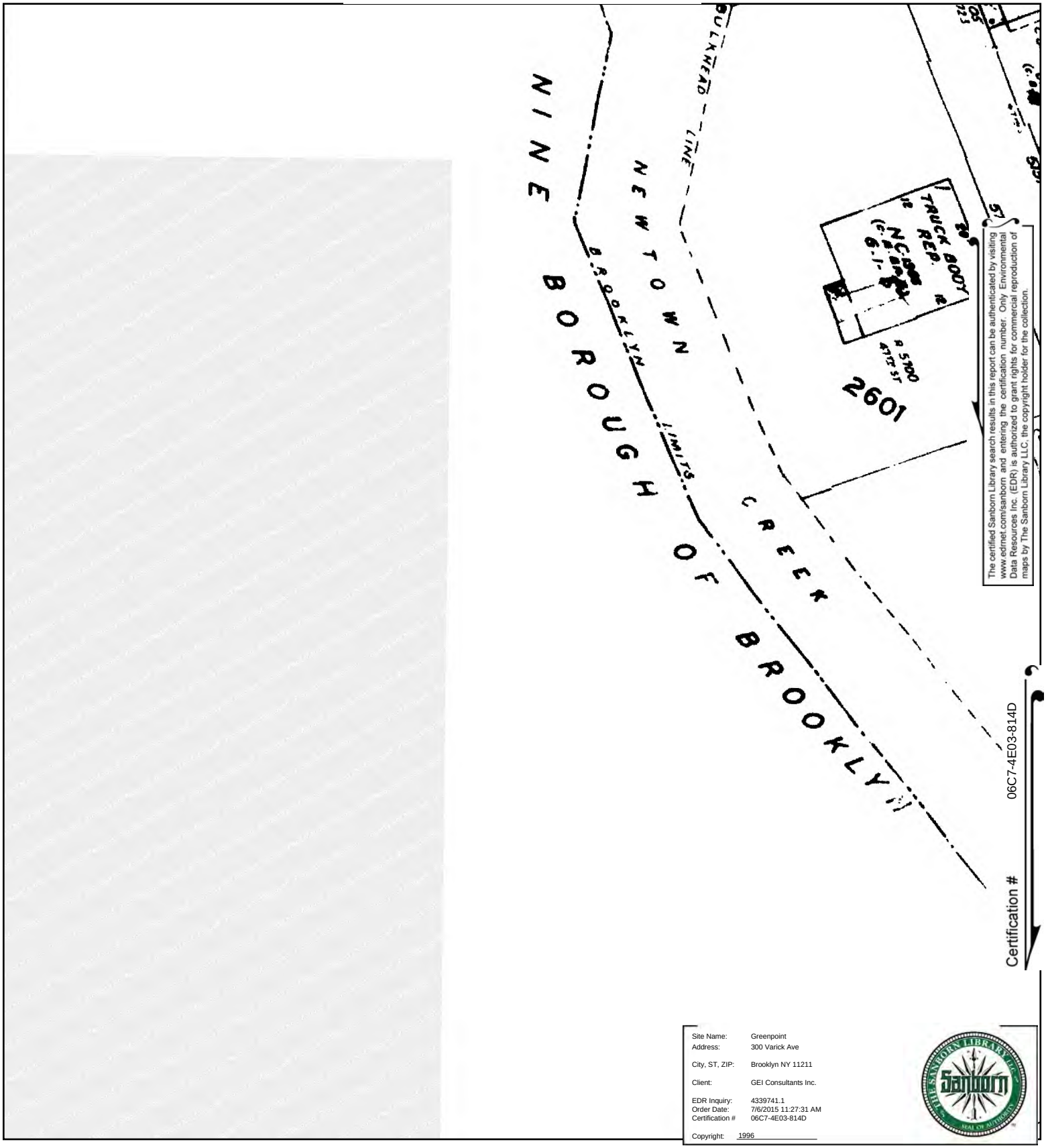

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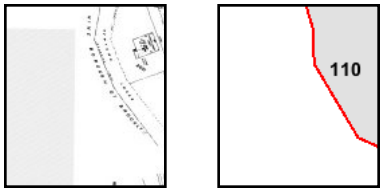

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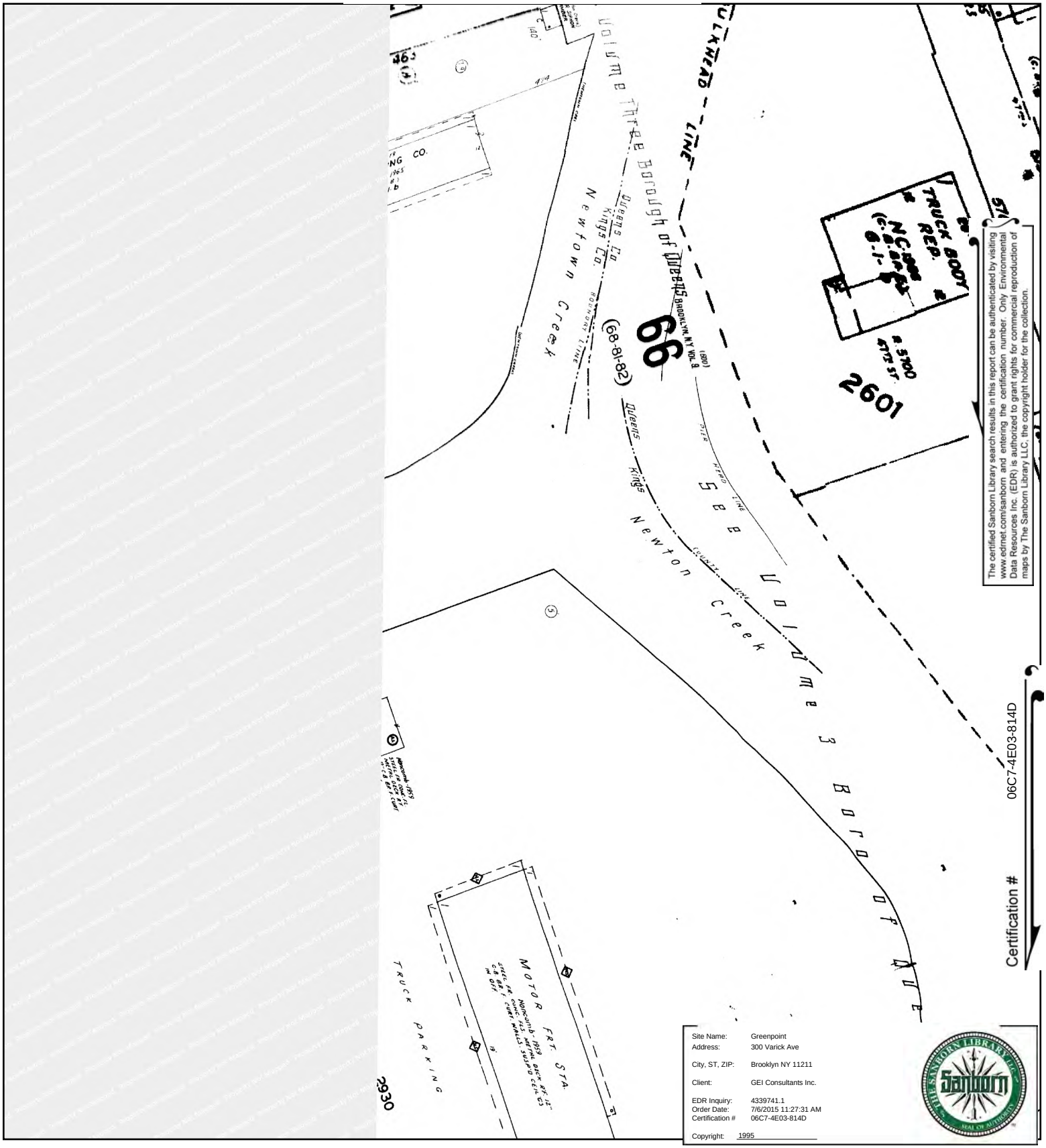

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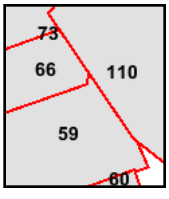

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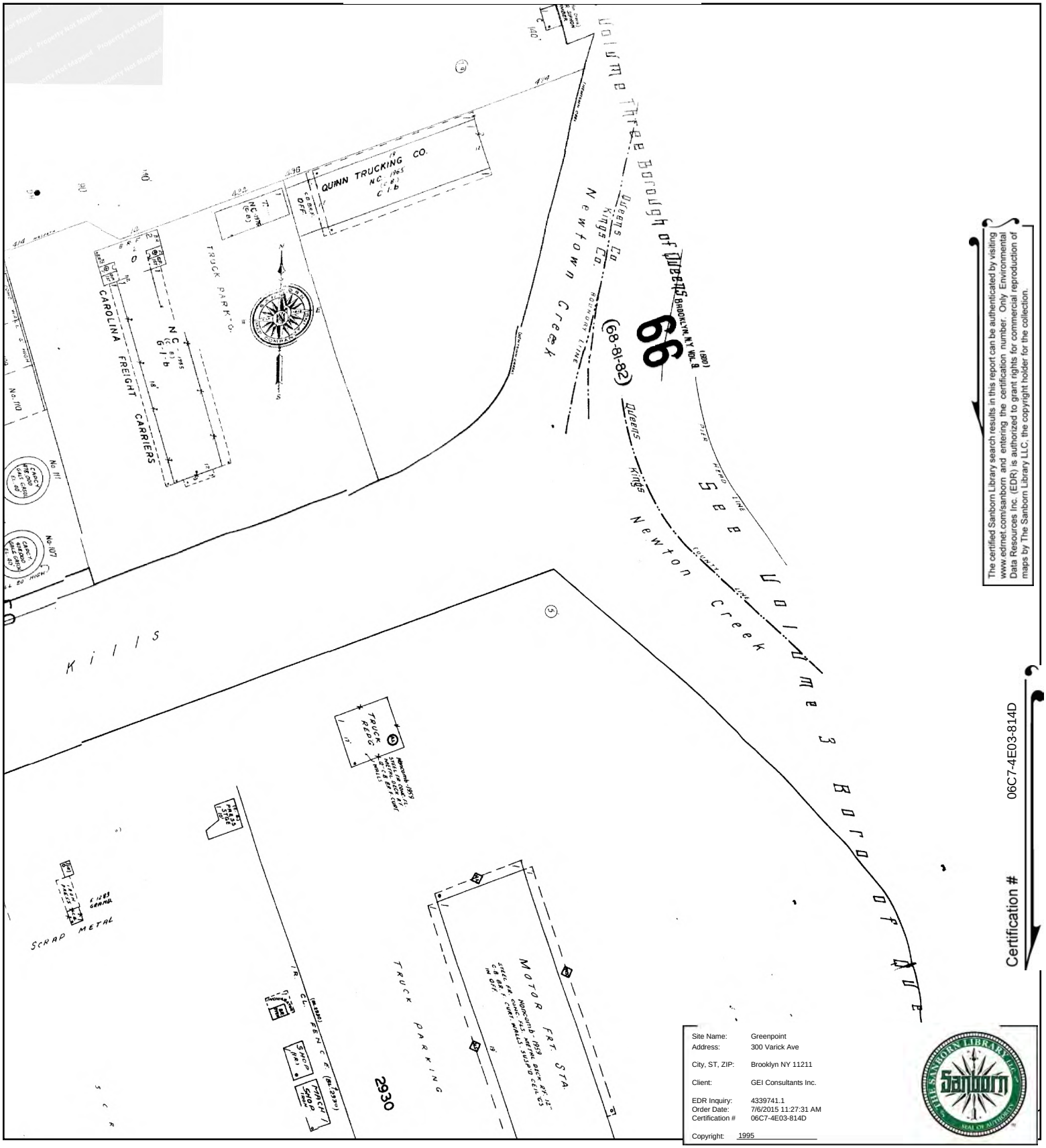

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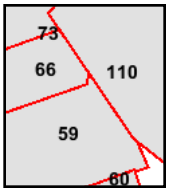

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Volume 9, Sheet 66
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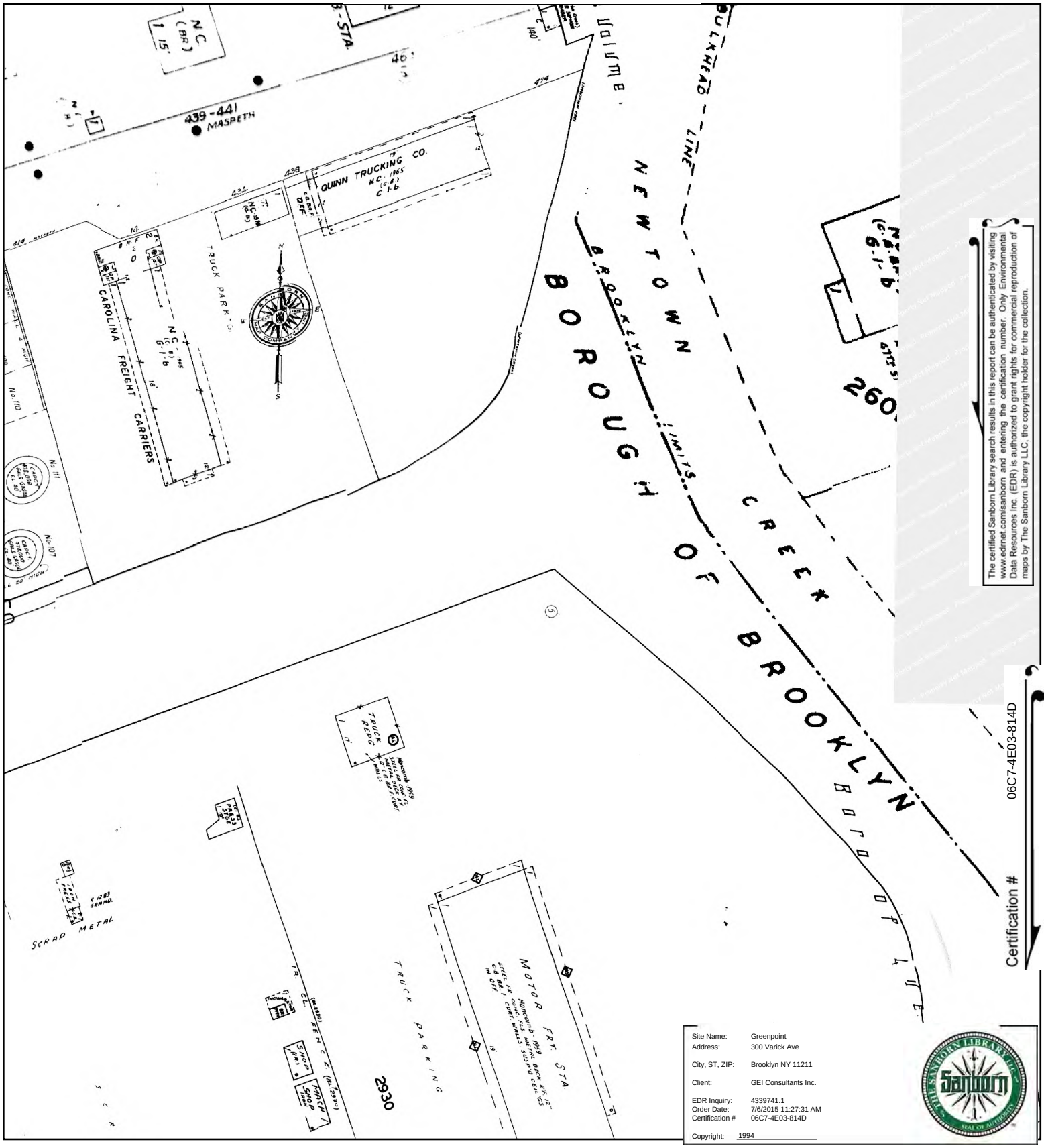

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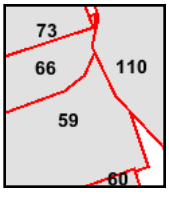

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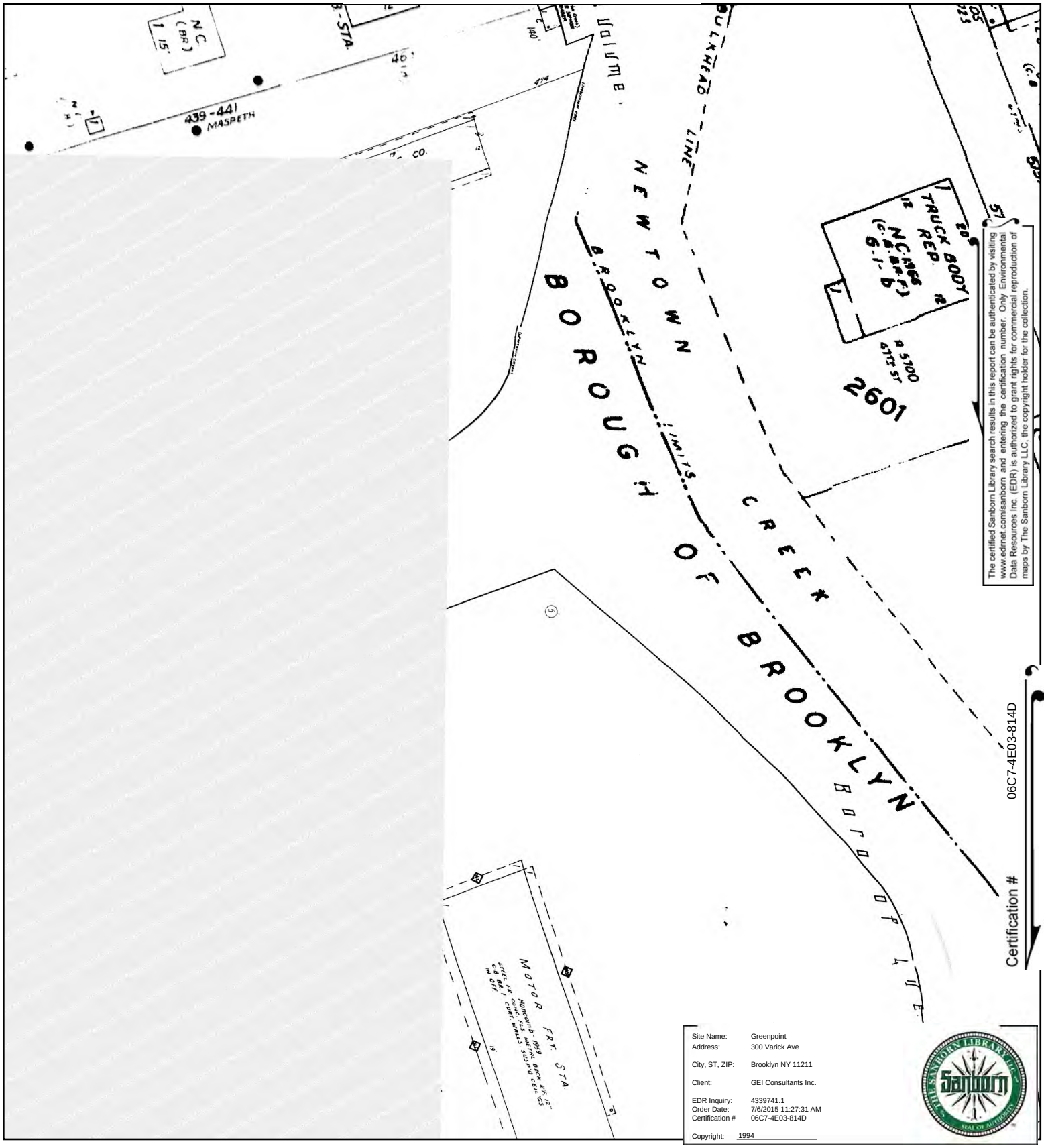

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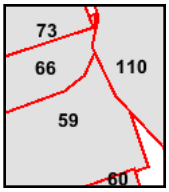

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Volume 9, Sheet 66
Volume 9, Sheet 73

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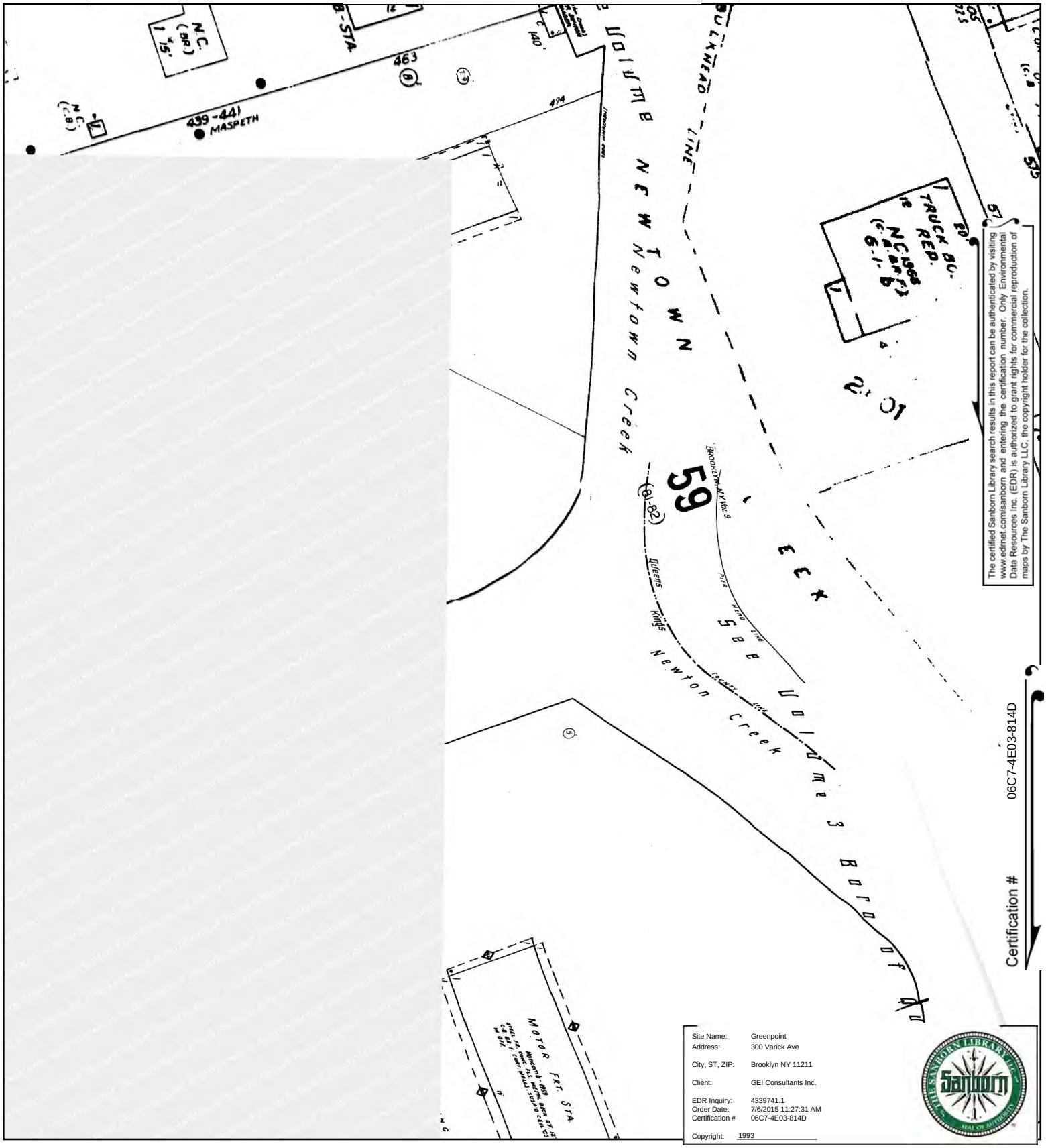
1993 Certified Sanborn Map



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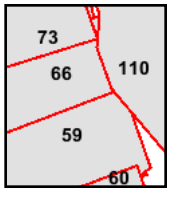

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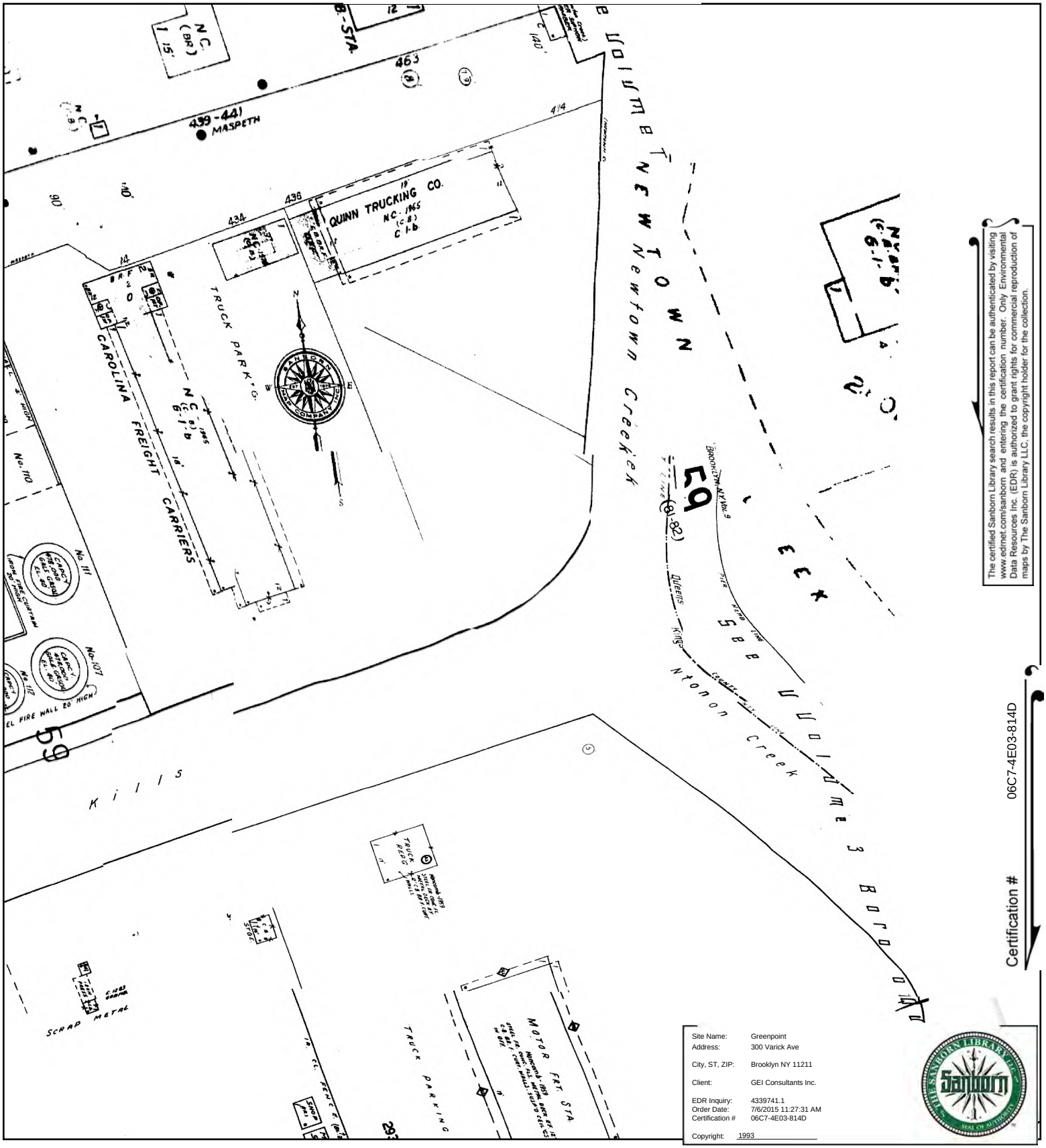

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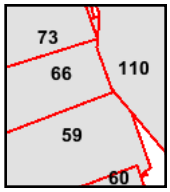

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Volume 9, Sheet 66
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Volume 9, Sheet 73
Volume 3, Sheet 110

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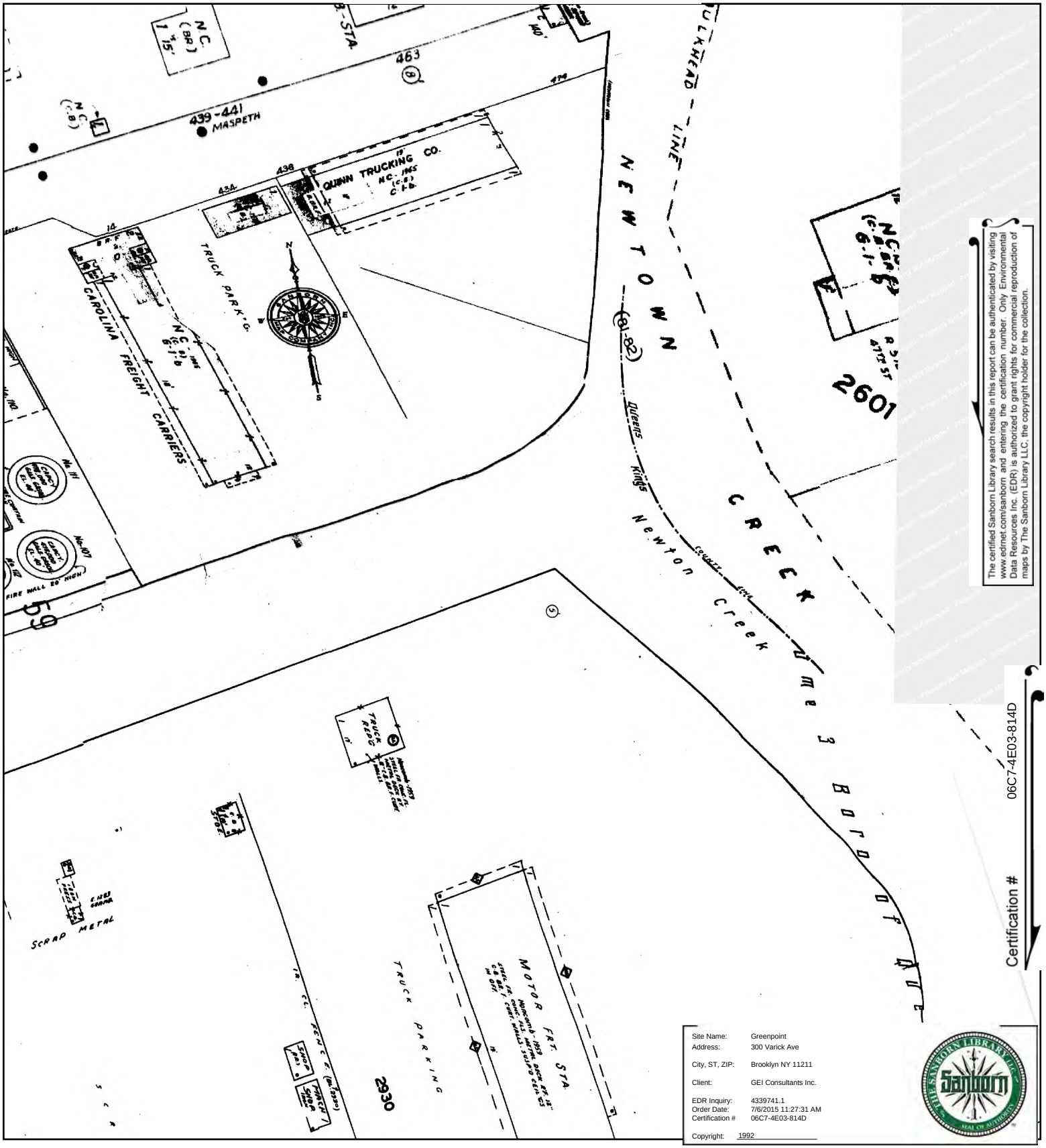
1992 Certified Sanborn Map



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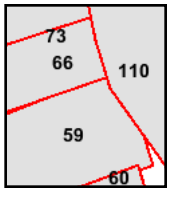

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Volume 9, Sheet 66
Volume 9, Sheet 59
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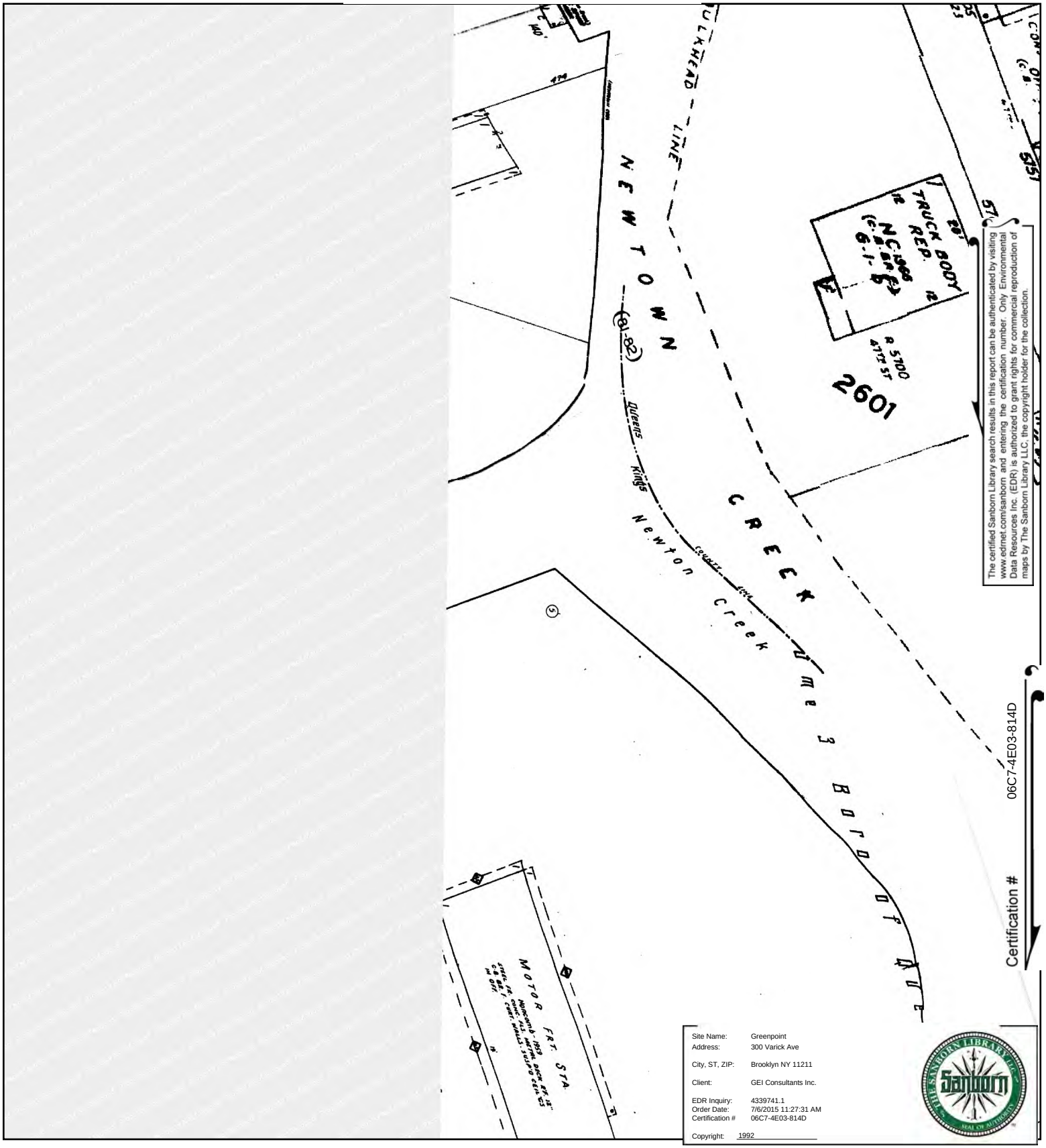

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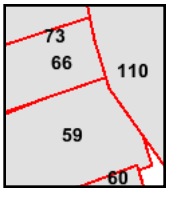

Volume 3, Sheet 110
Volume 9, Sheet 66
Volume 9, Sheet 59
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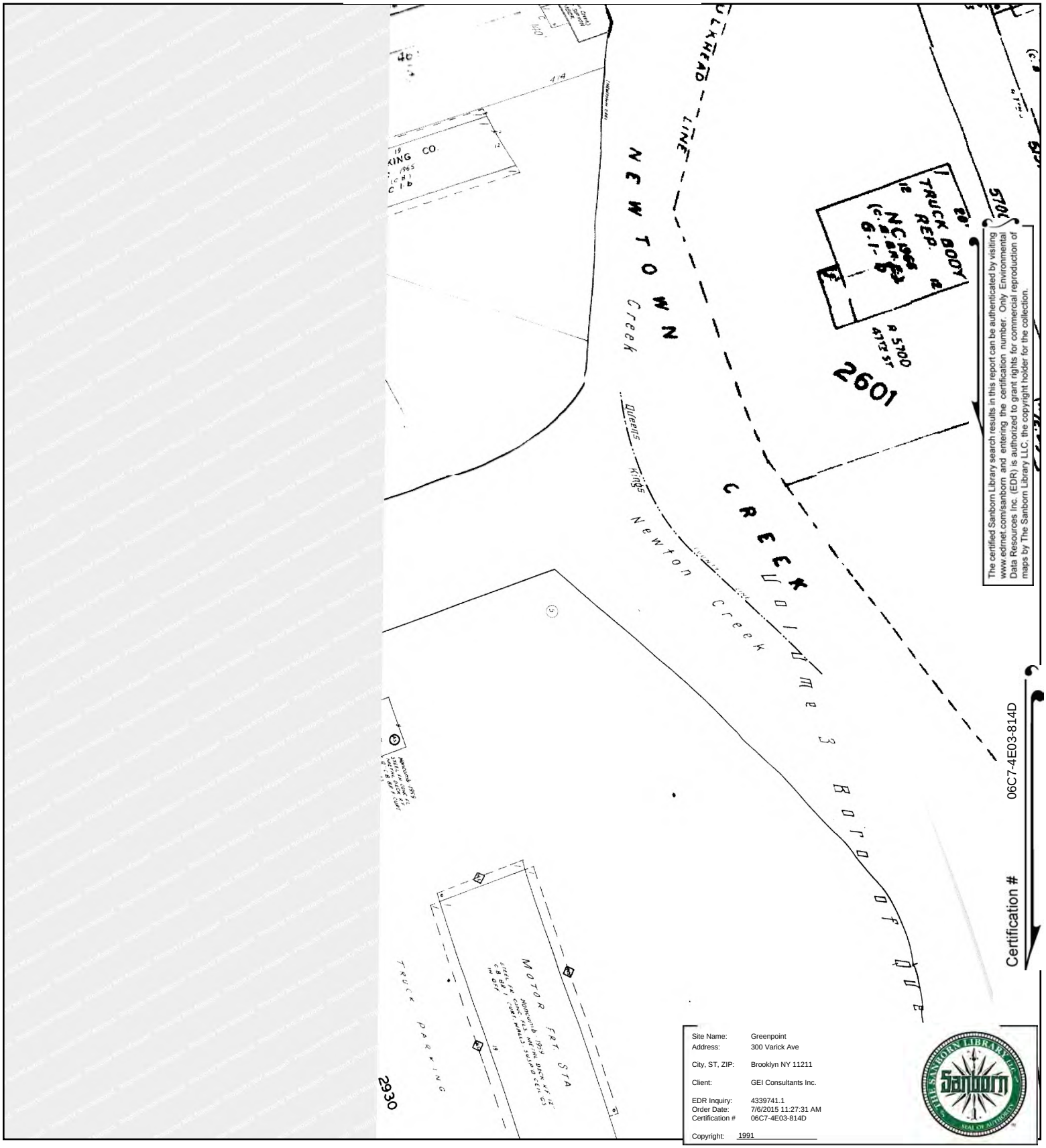
1991 Certified Sanborn Map



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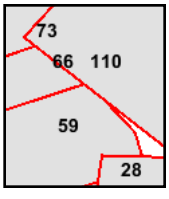

Volume 9, Sheet 66
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Volume 3, Sheet 28
Volume 3, Sheet 110
Volume 9, Sheet 59

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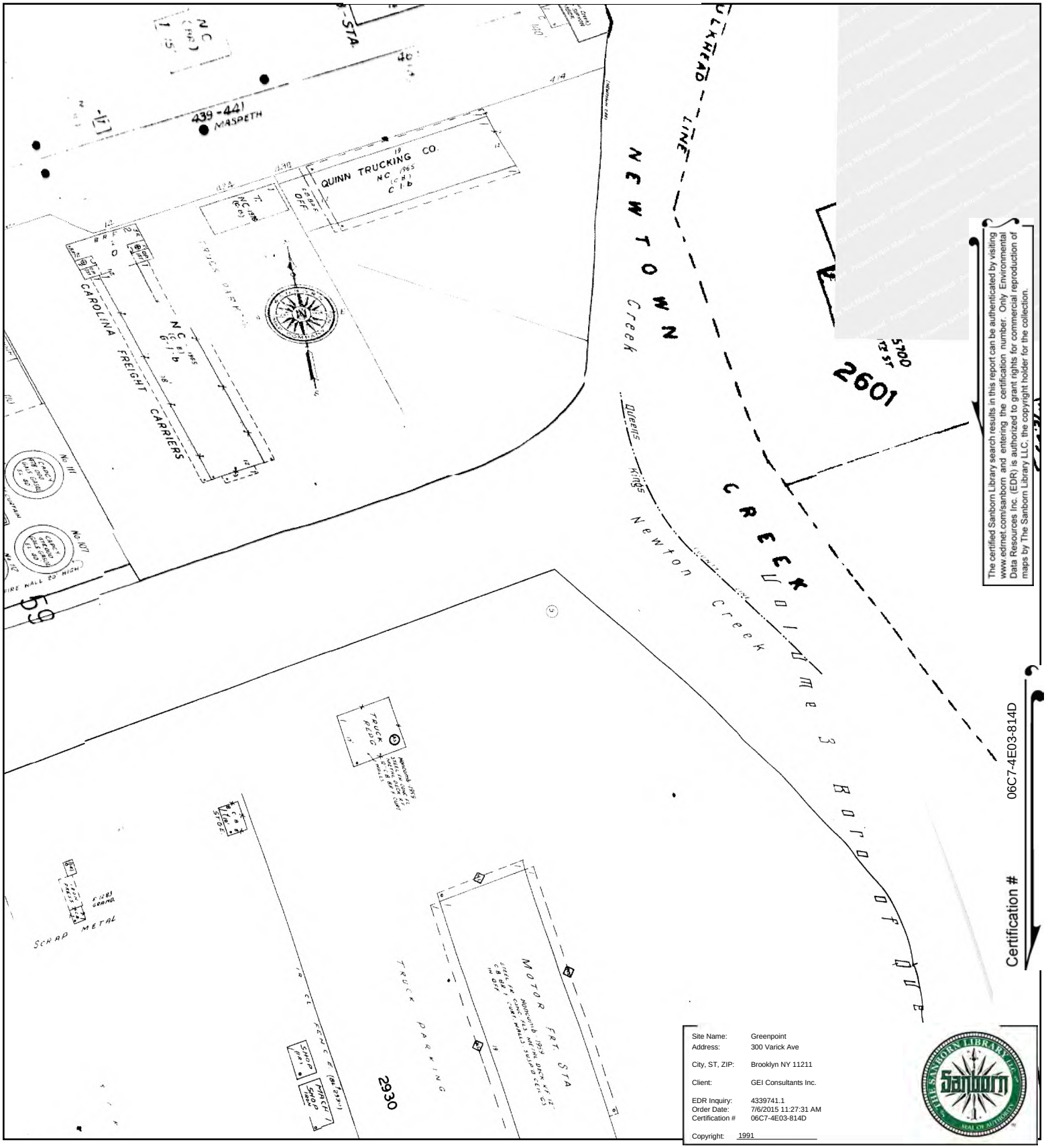

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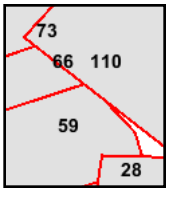

Volume 9, Sheet 66
Volume 9, Sheet 73
Volume 3, Sheet 28
Volume 3, Sheet 110
Volume 9, Sheet 59

0 Feet 165 330 660

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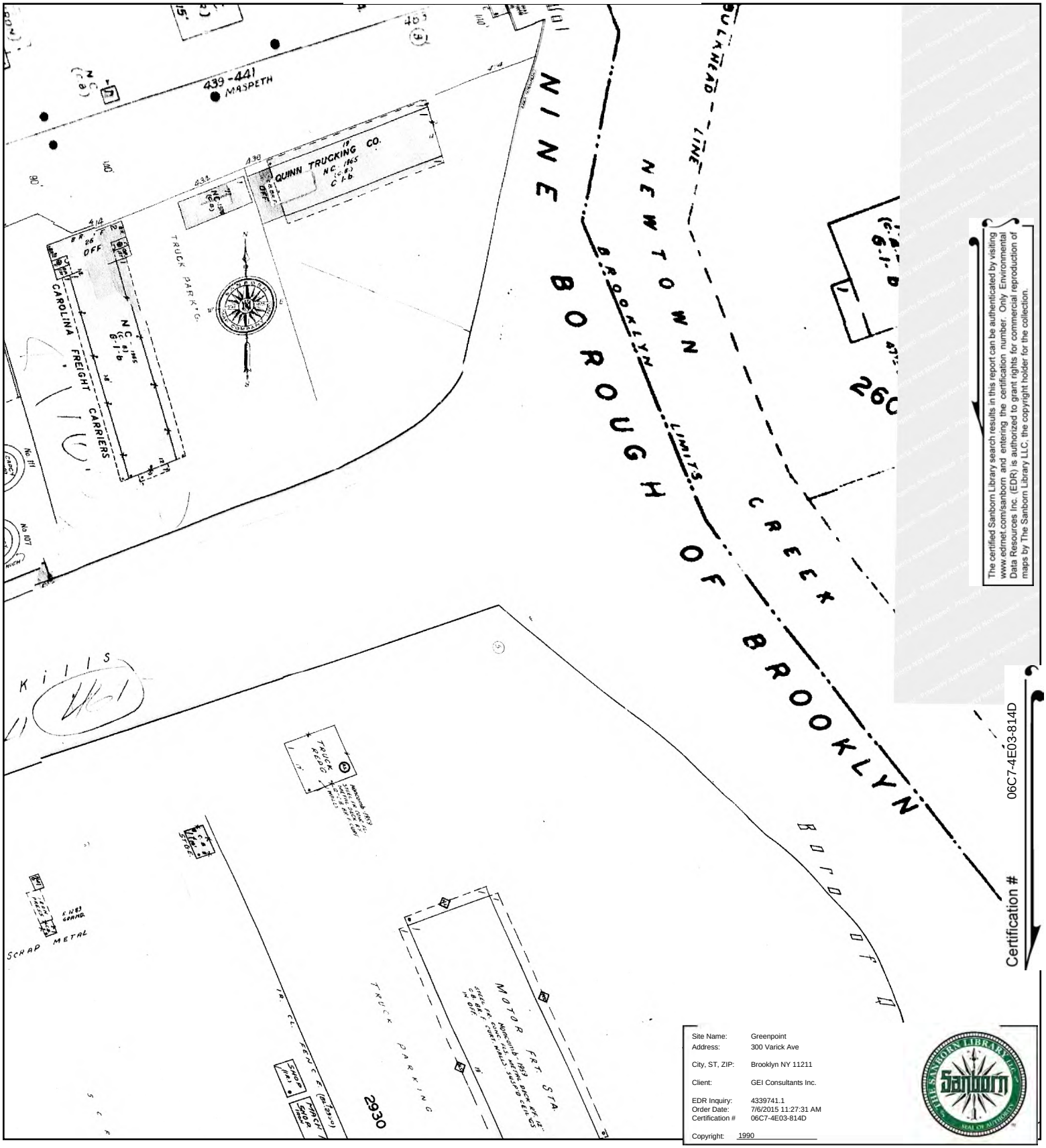
1990 Certified Sanborn Map



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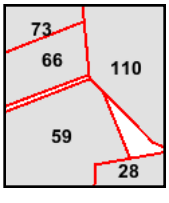

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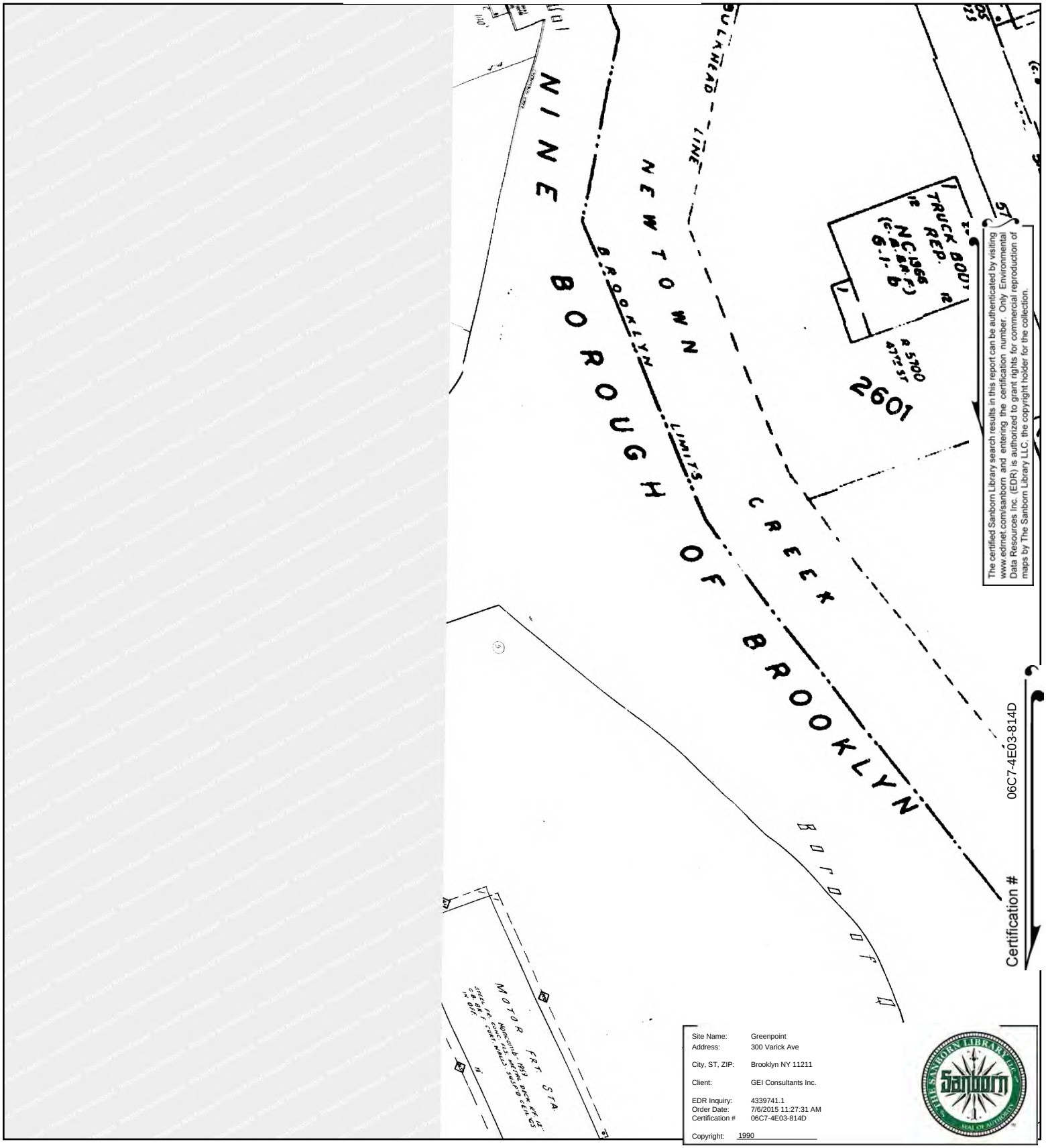
1990 Certified Sanborn Map



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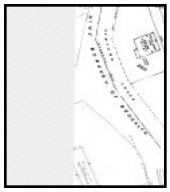

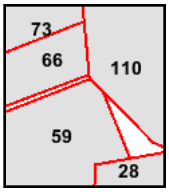

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Volume 9, Sheet 66
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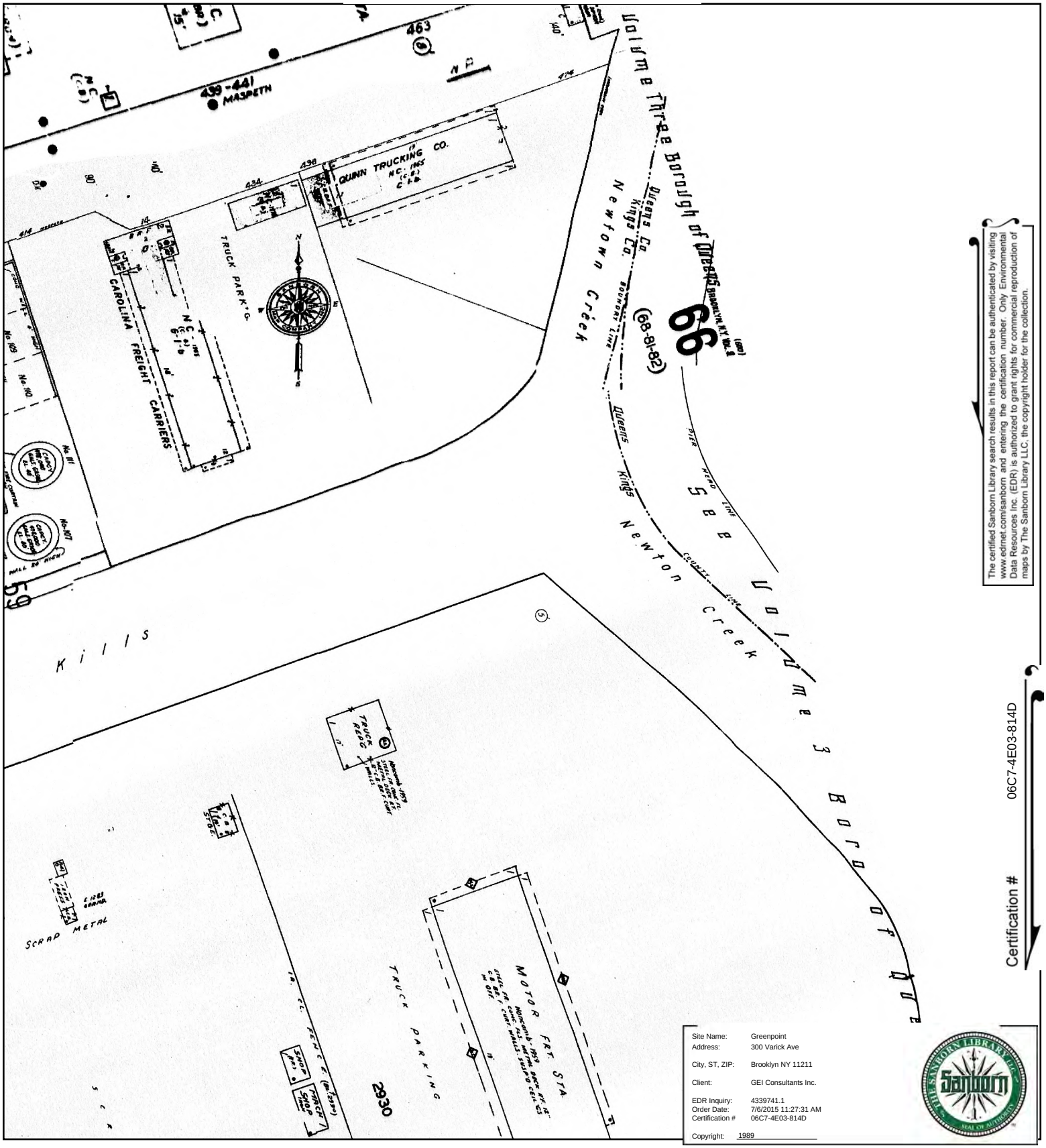
1989 Certified Sanborn Map



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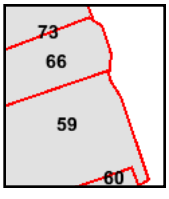

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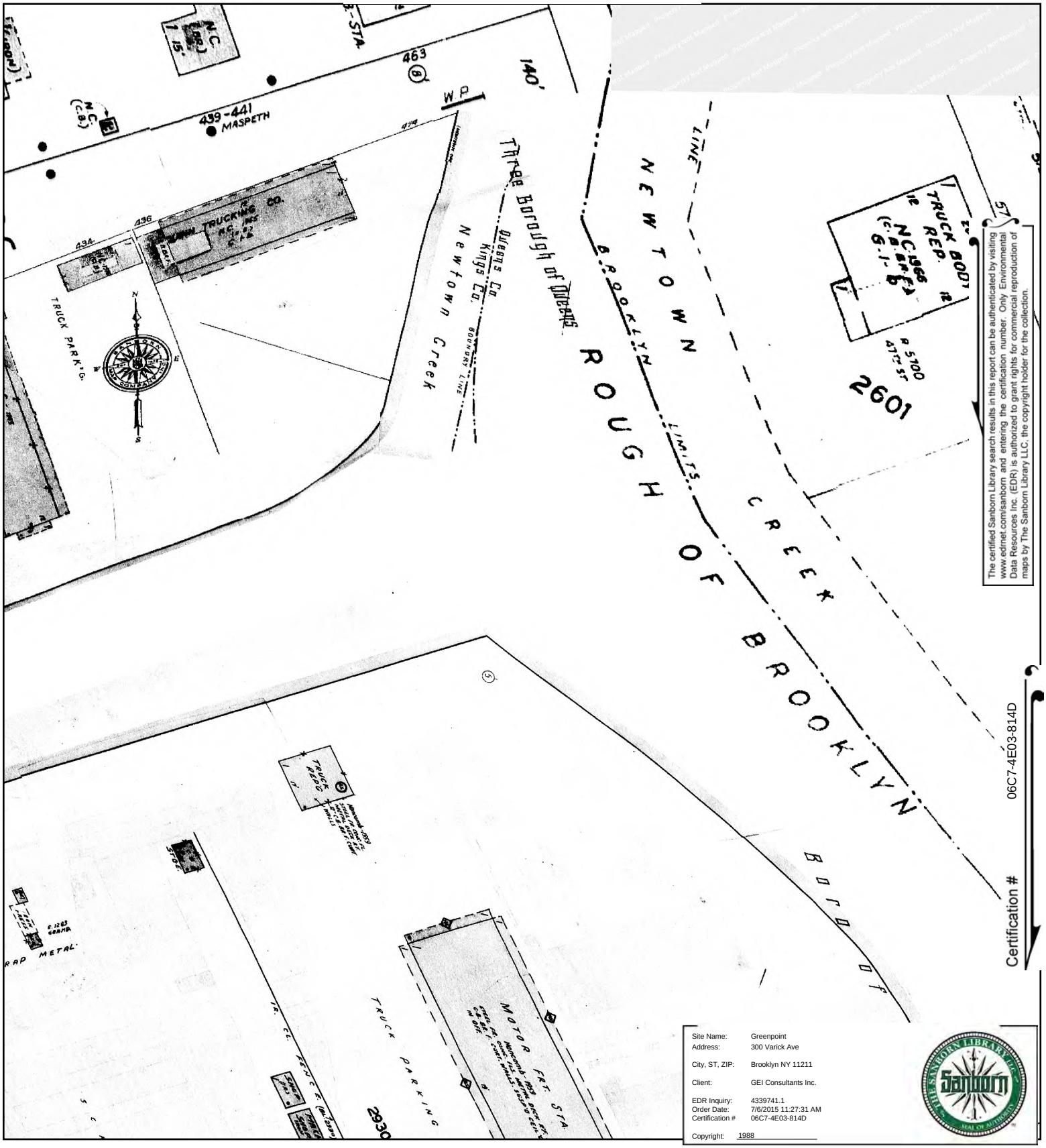

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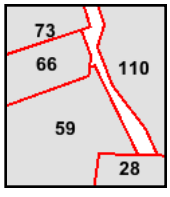

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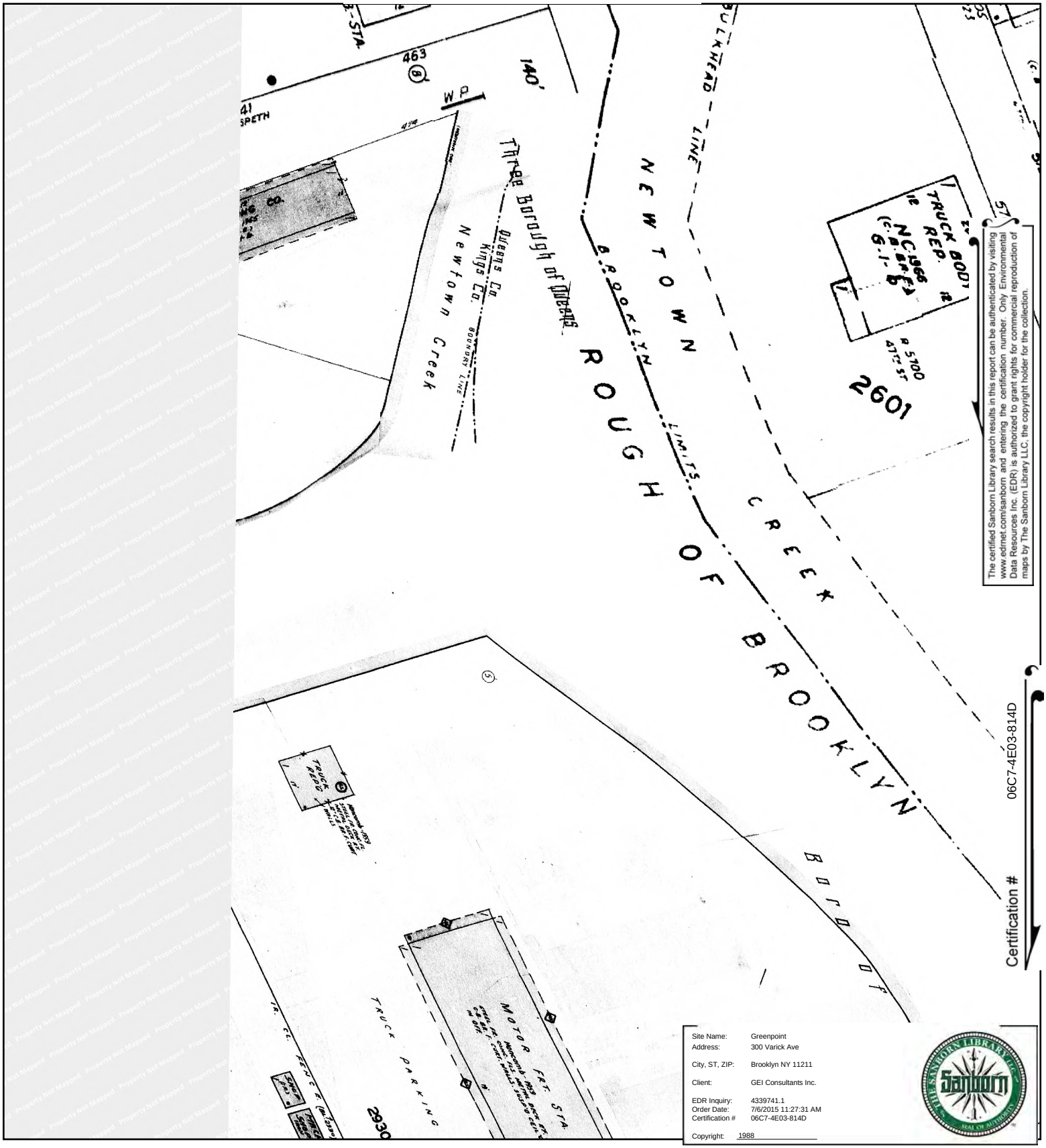

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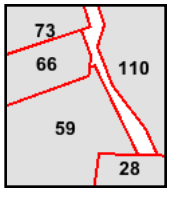

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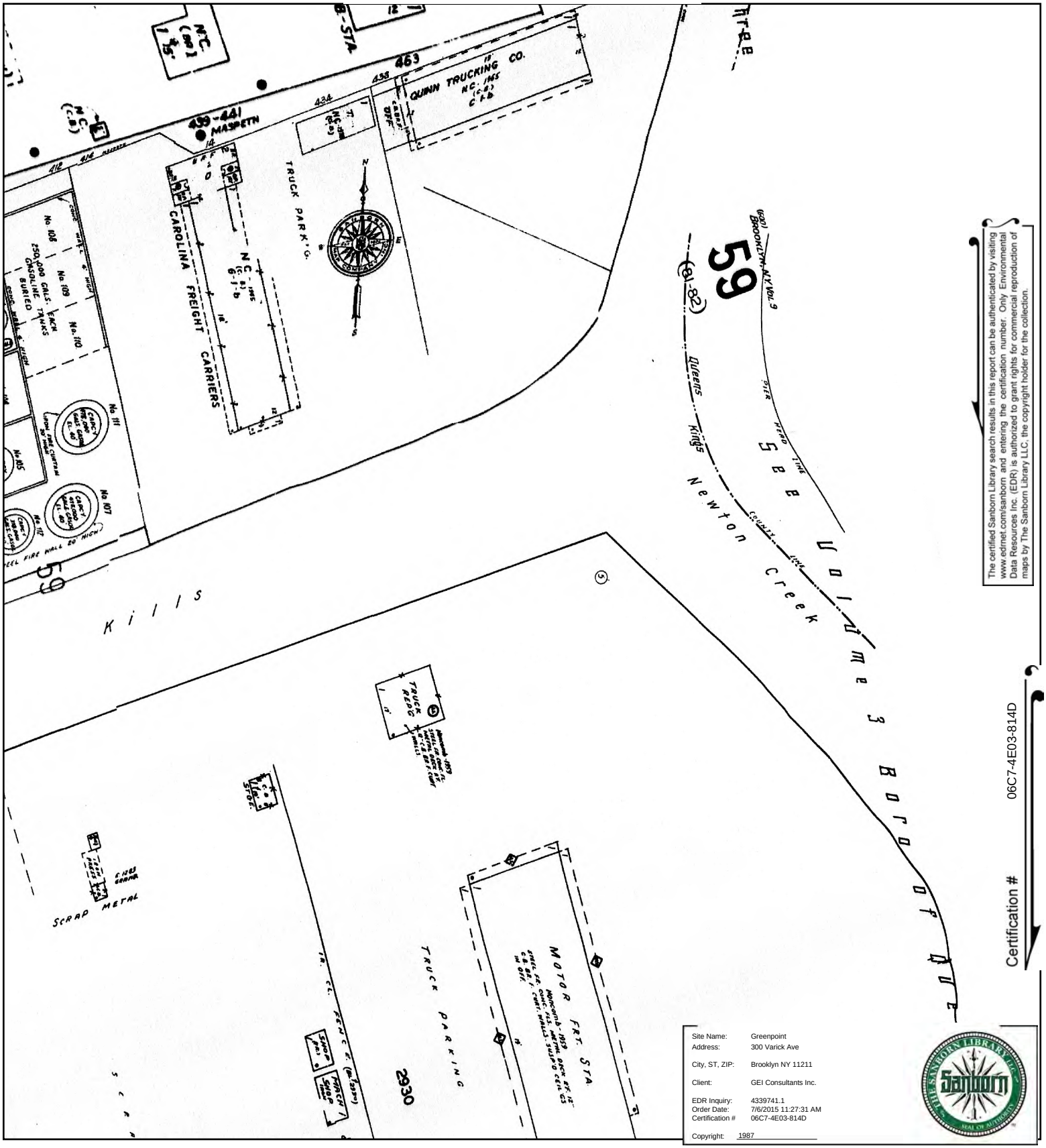

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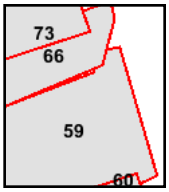

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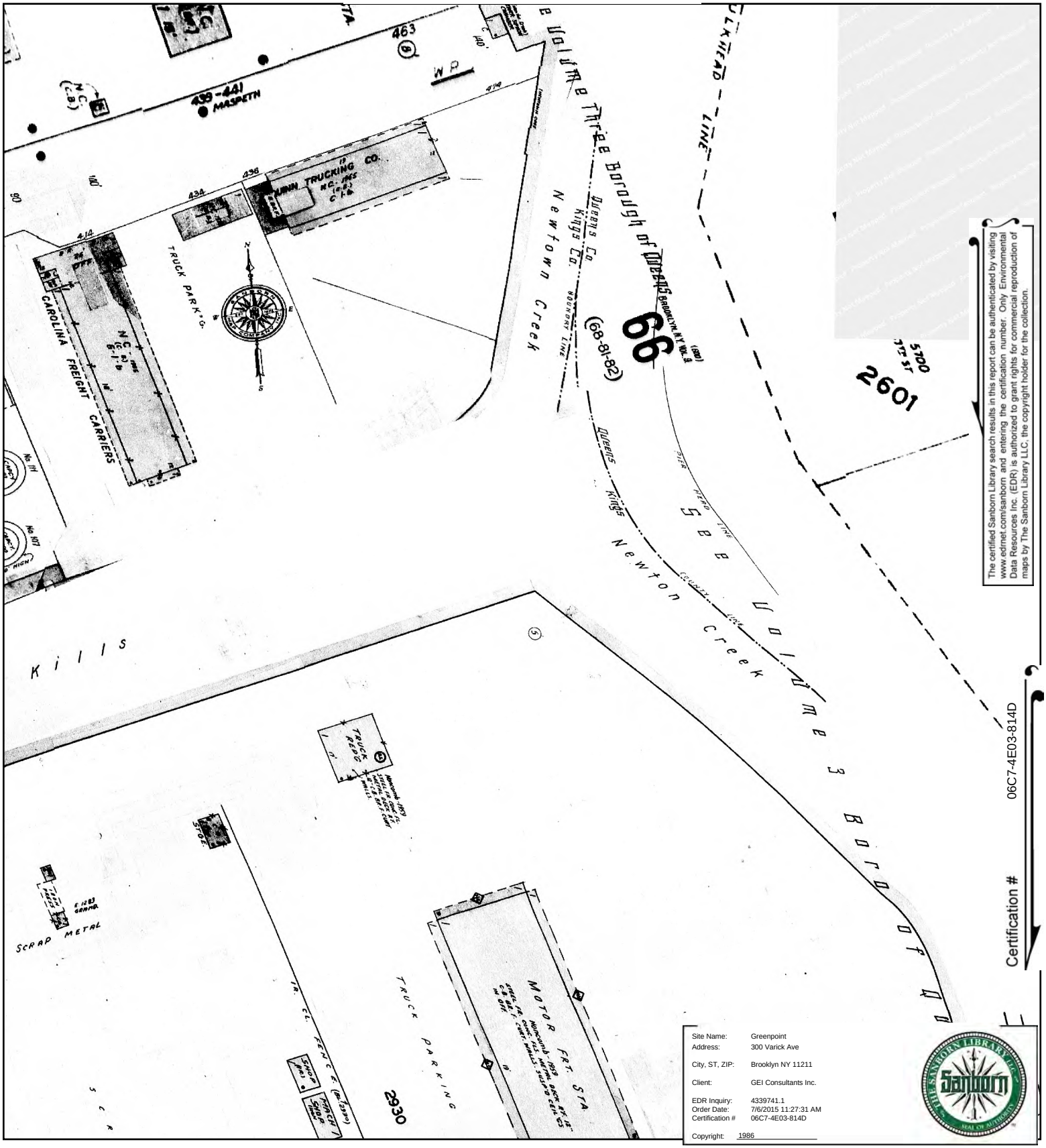

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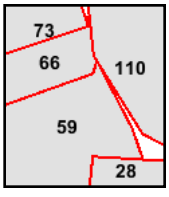

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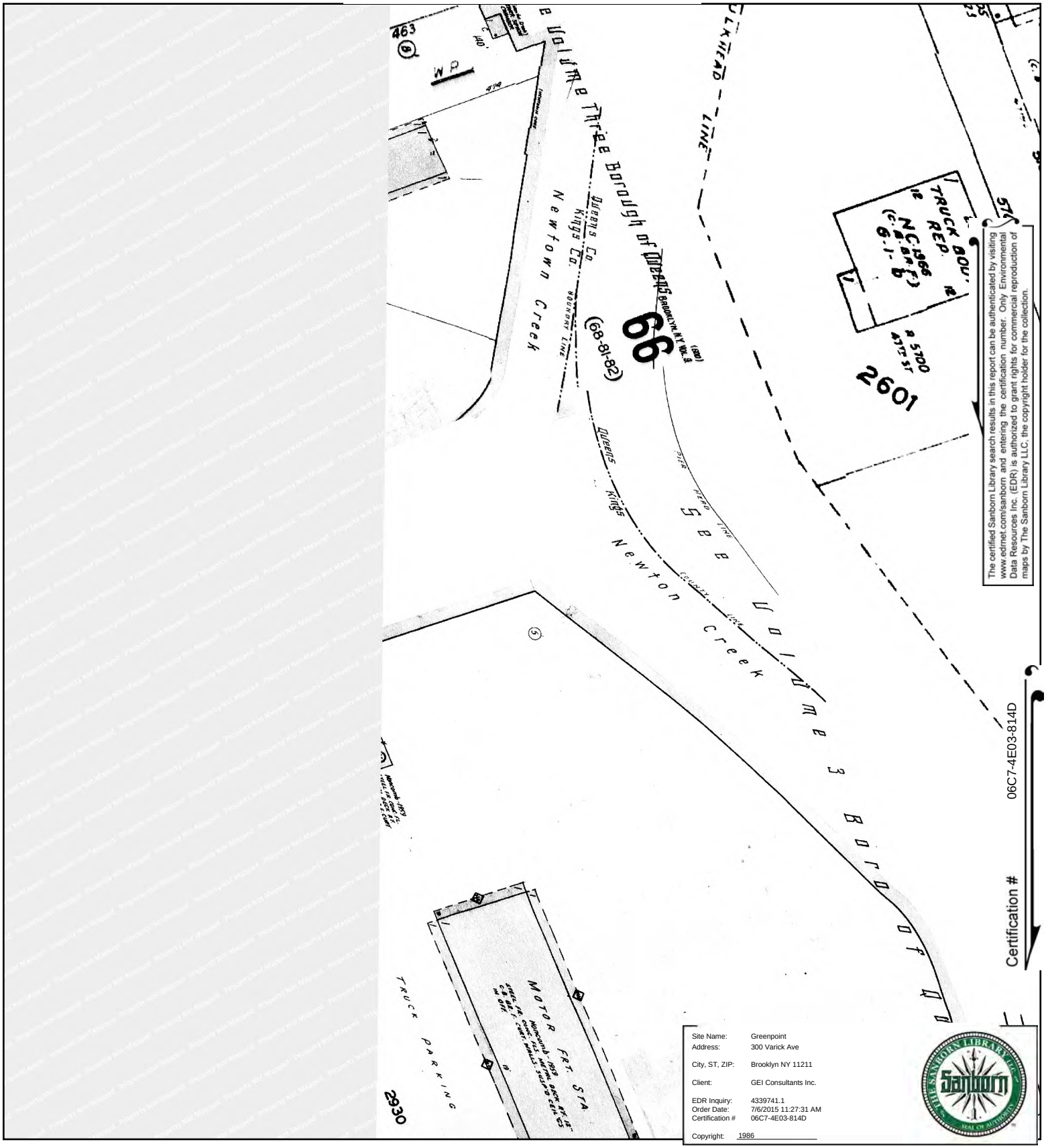

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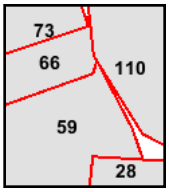

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Volume 9, Sheet 66
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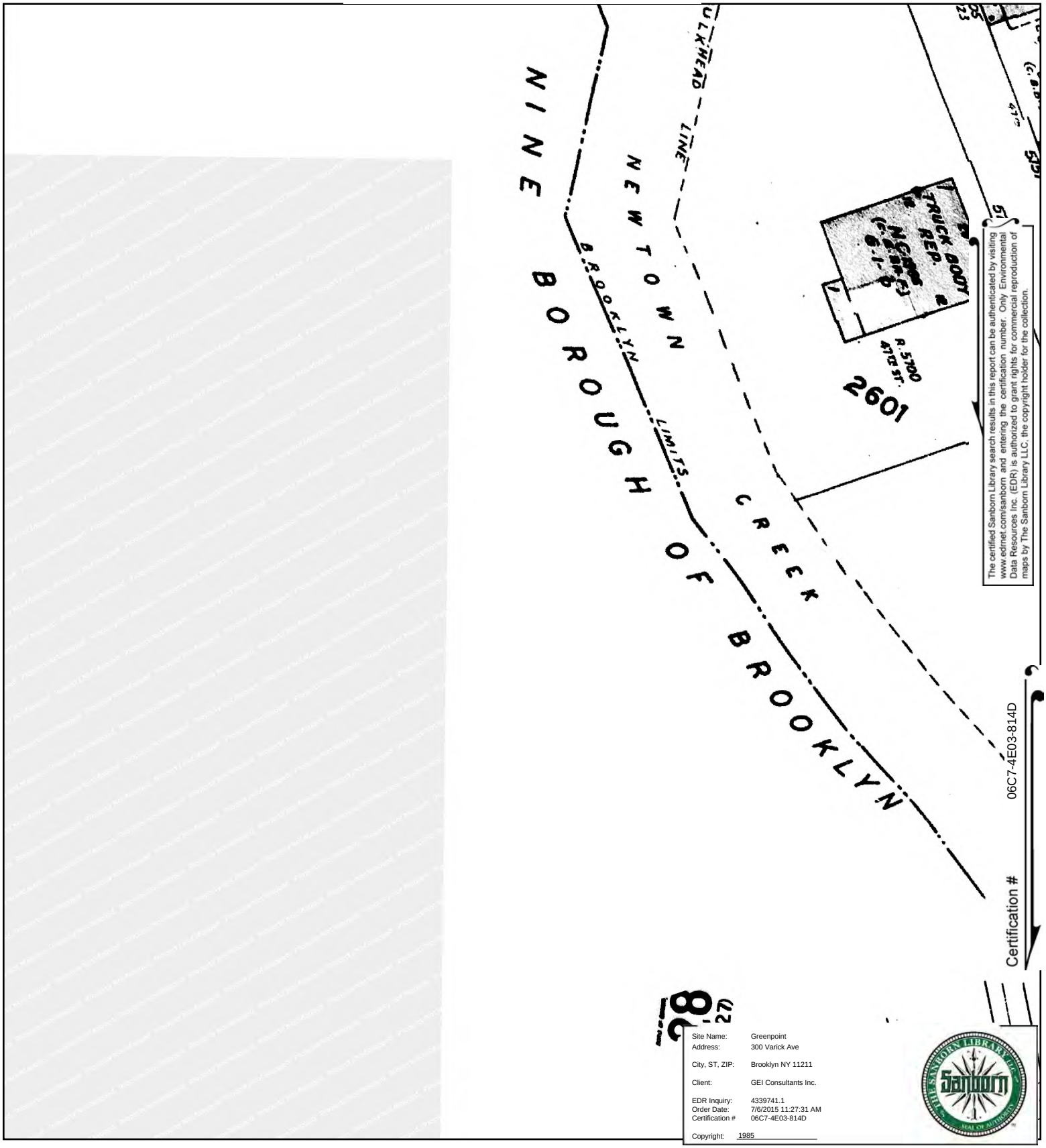
1985 Certified Sanborn Map



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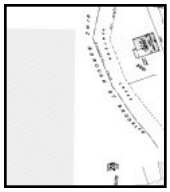

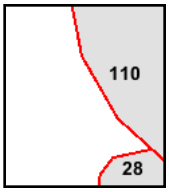

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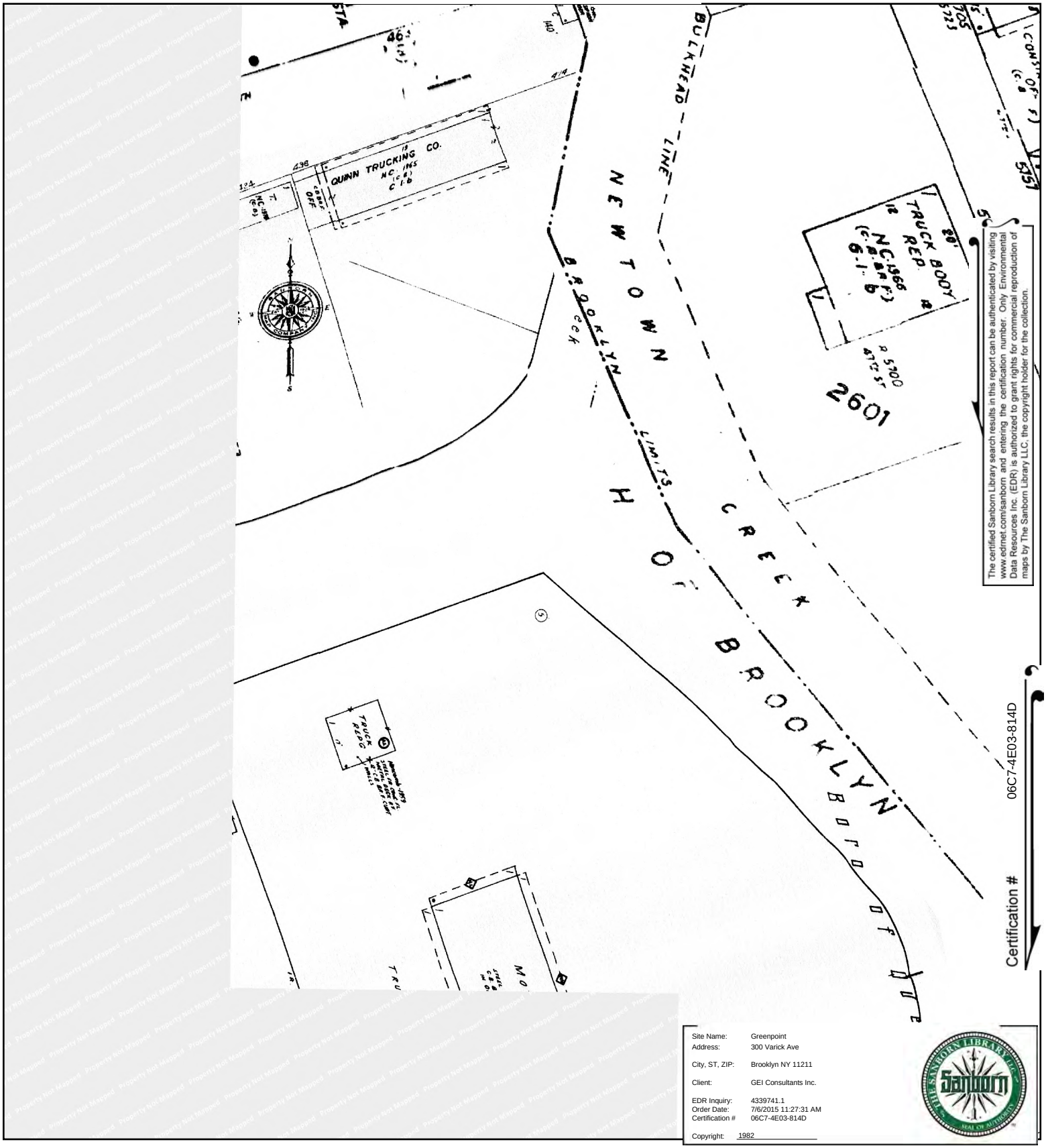

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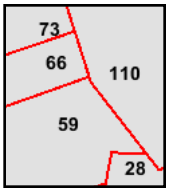

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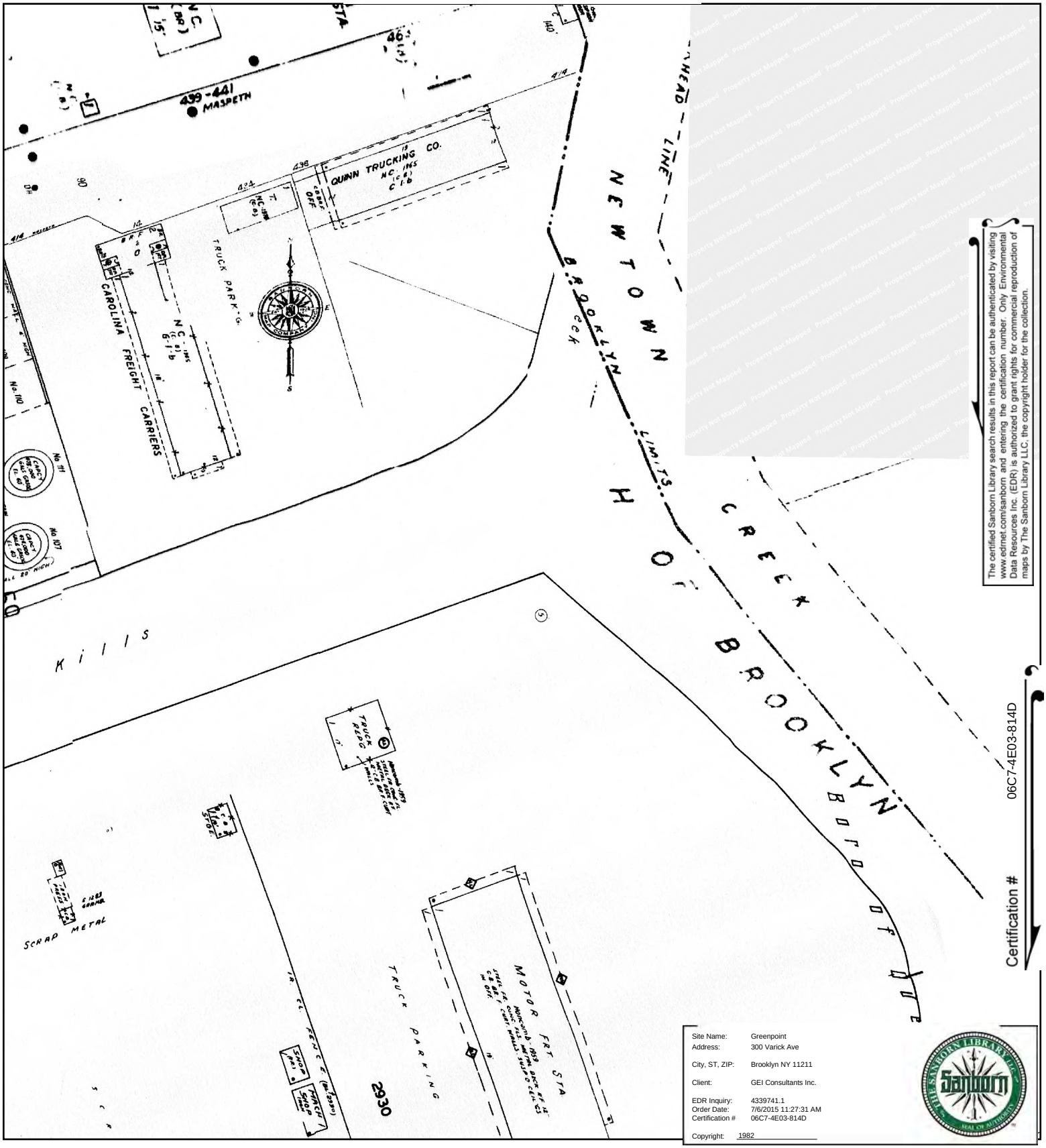
1982 Certified Sanborn Map



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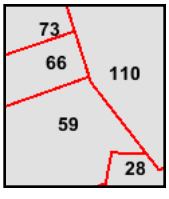

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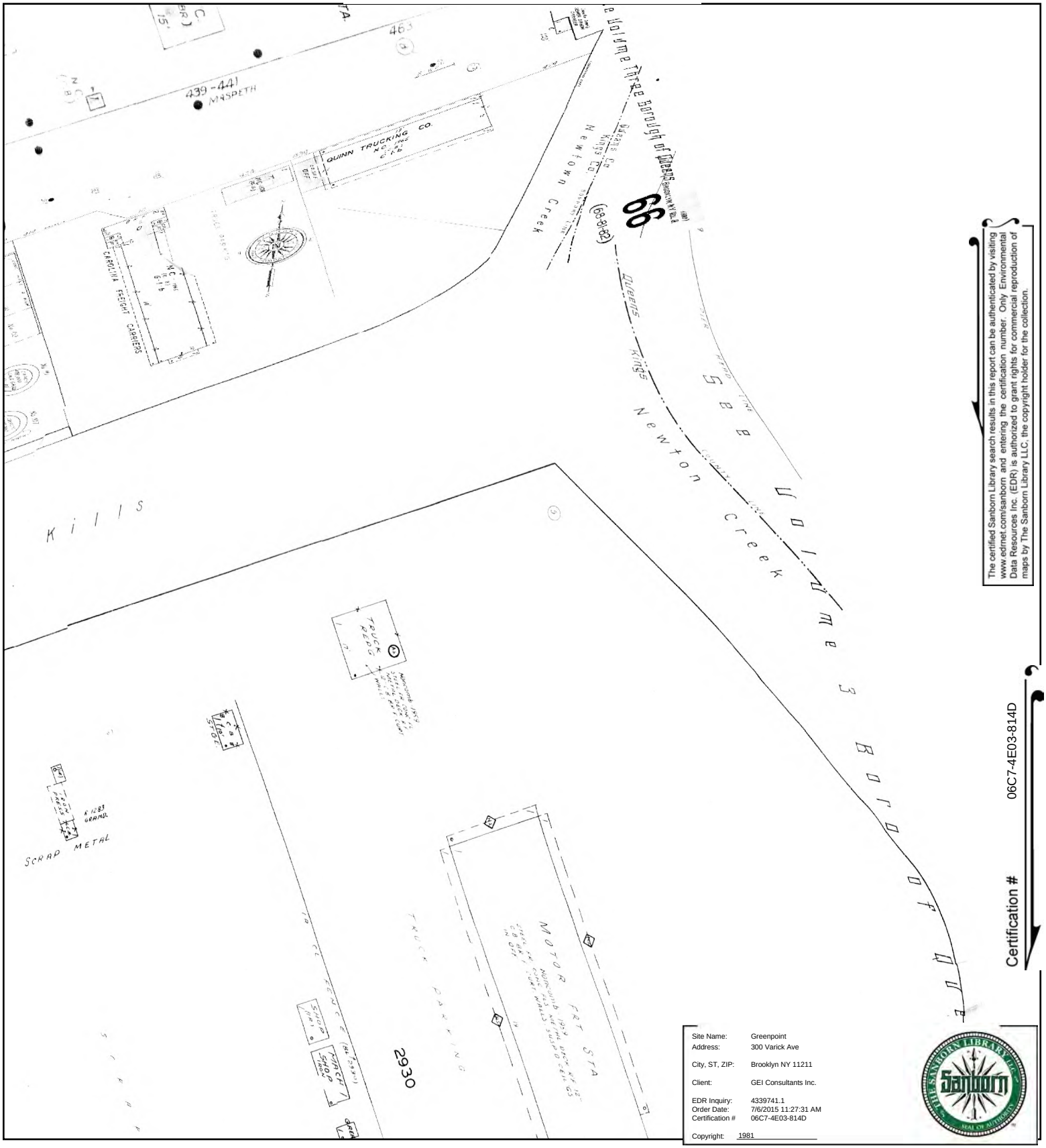
1981 Certified Sanborn Map



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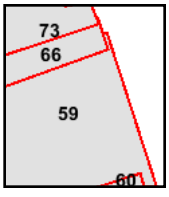

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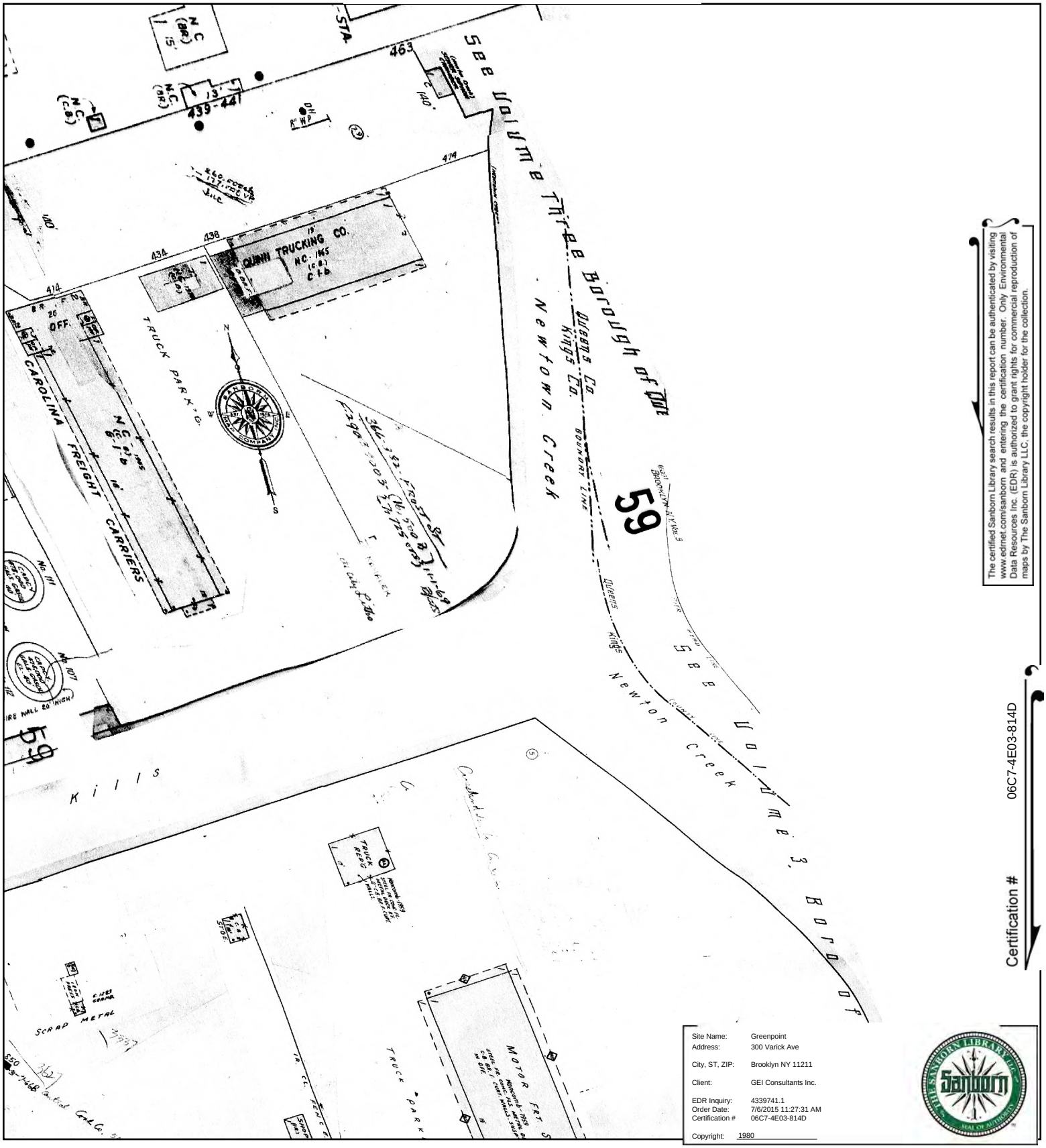
1980 Certified Sanborn Map



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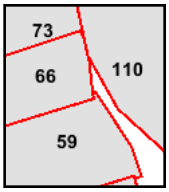

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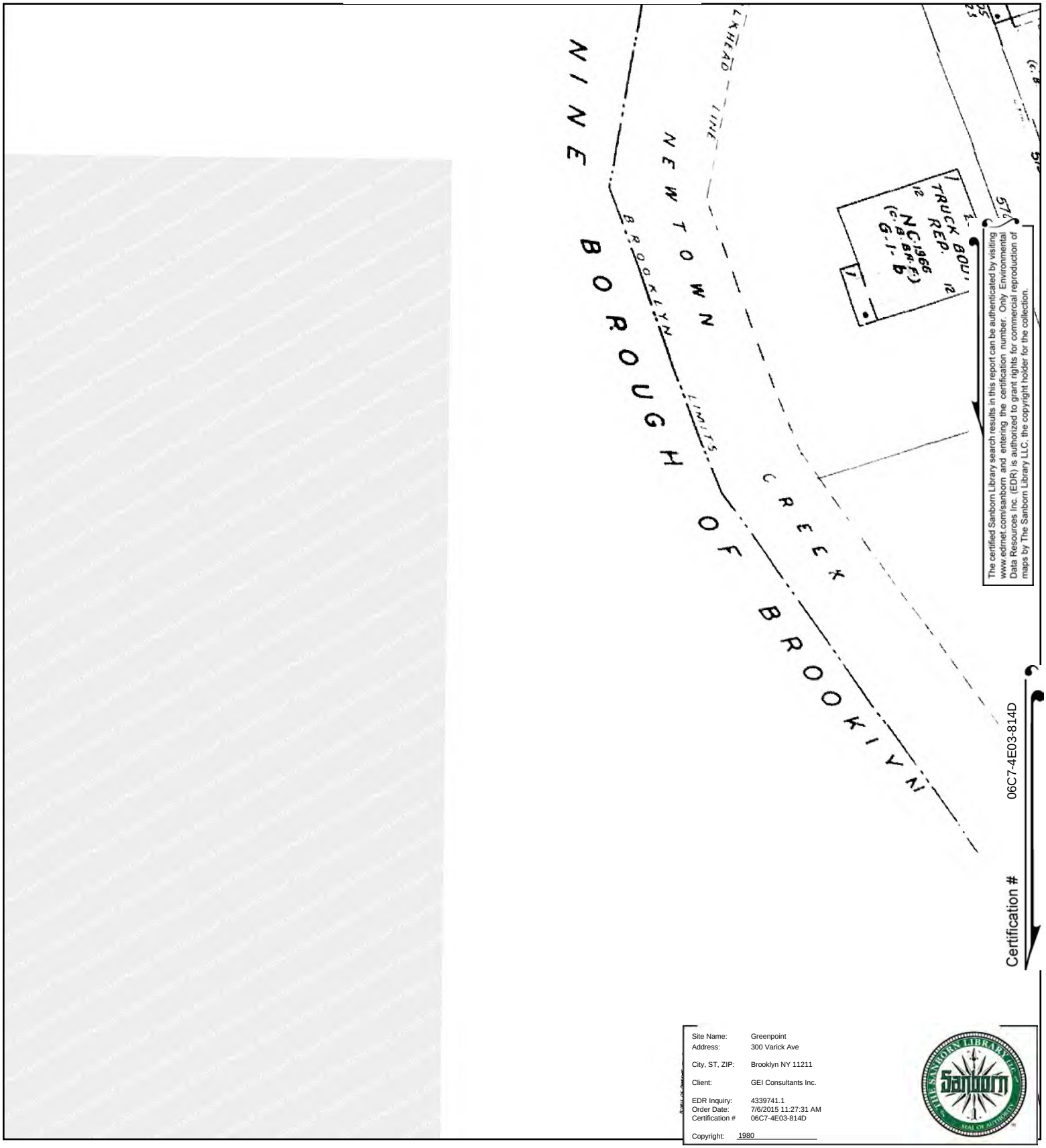

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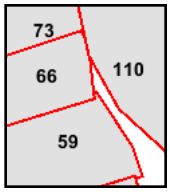

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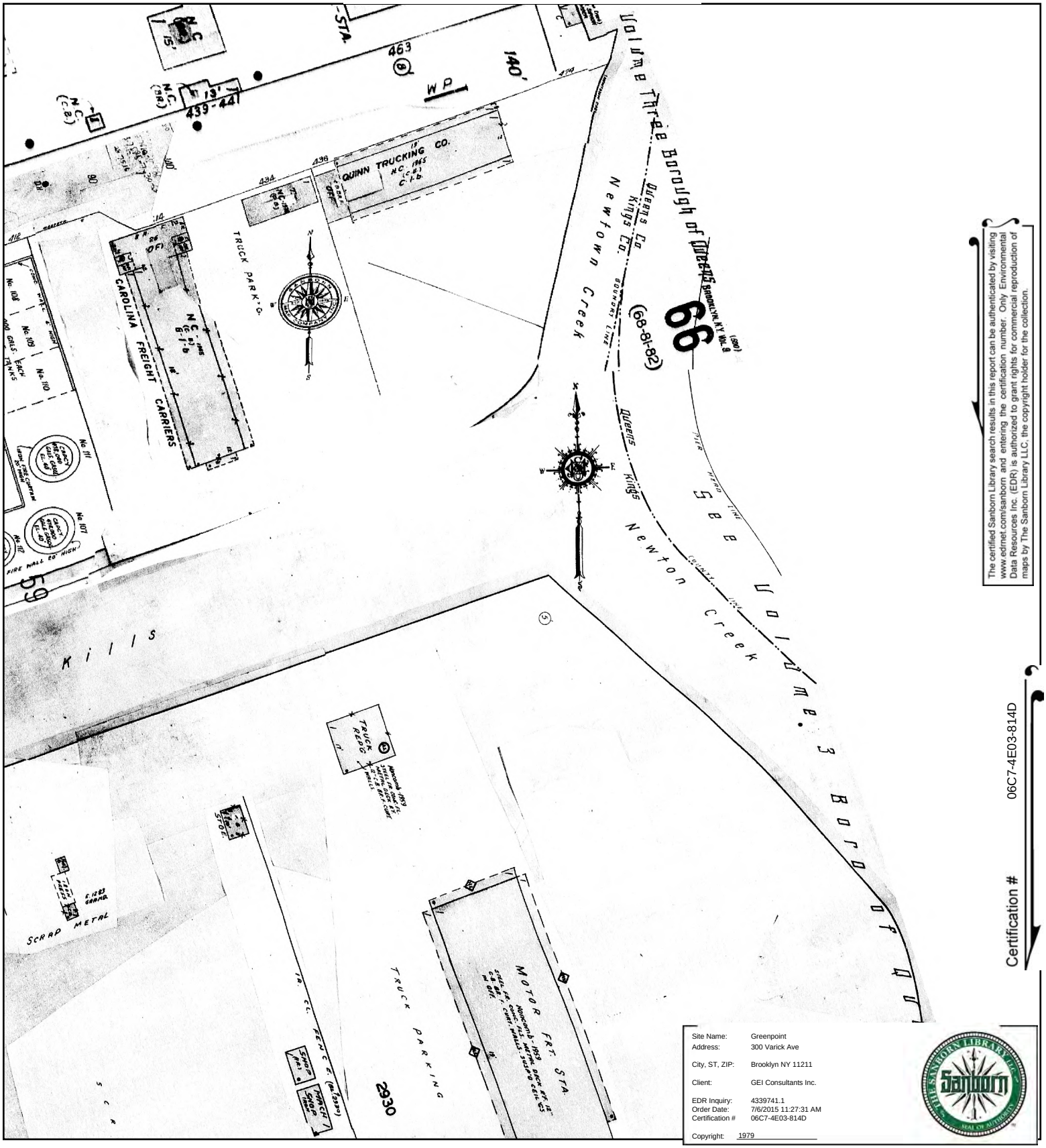
1979 Certified Sanborn Map



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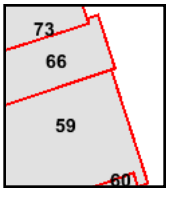

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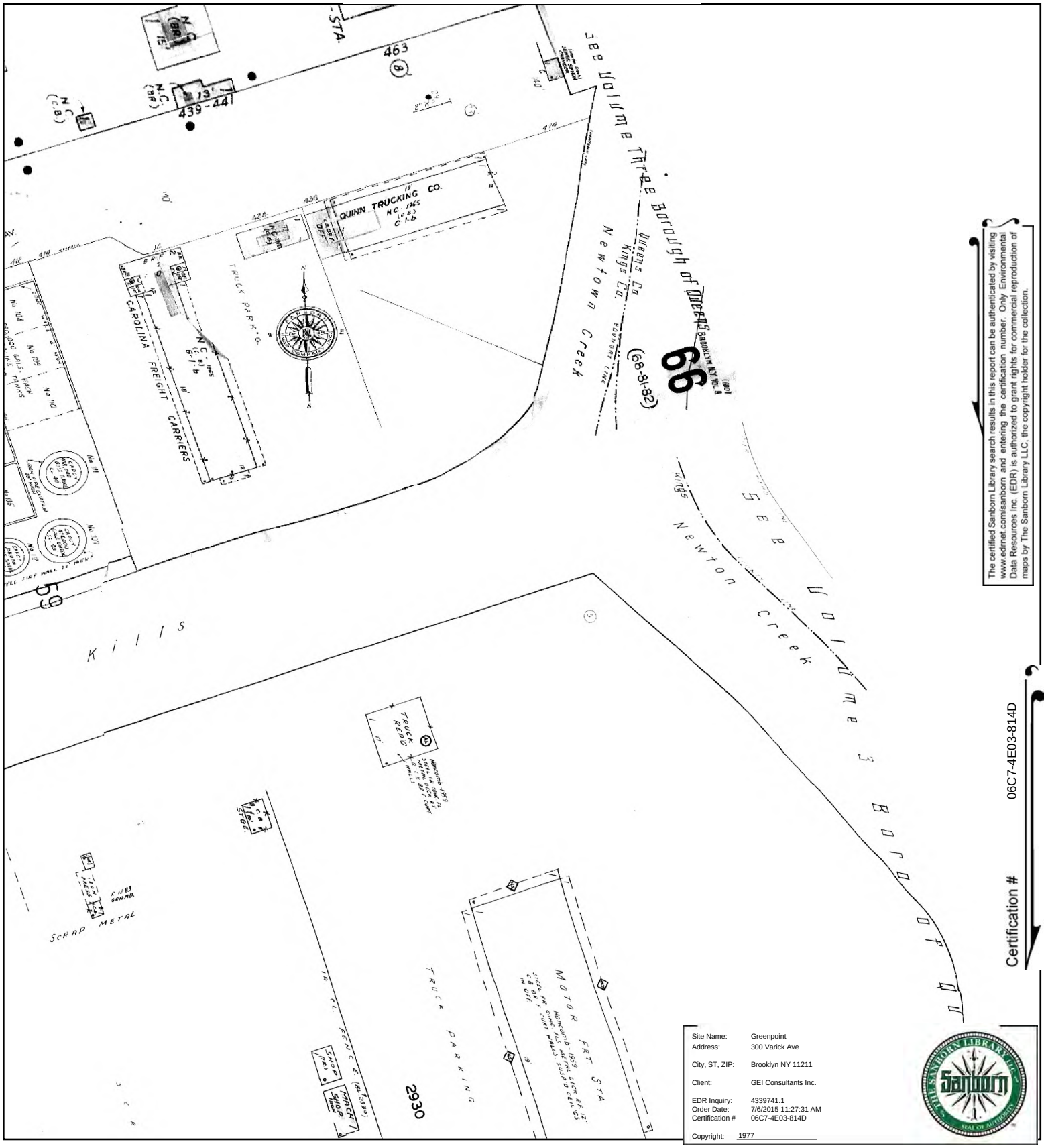

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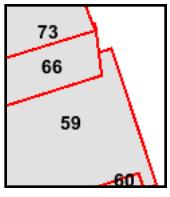

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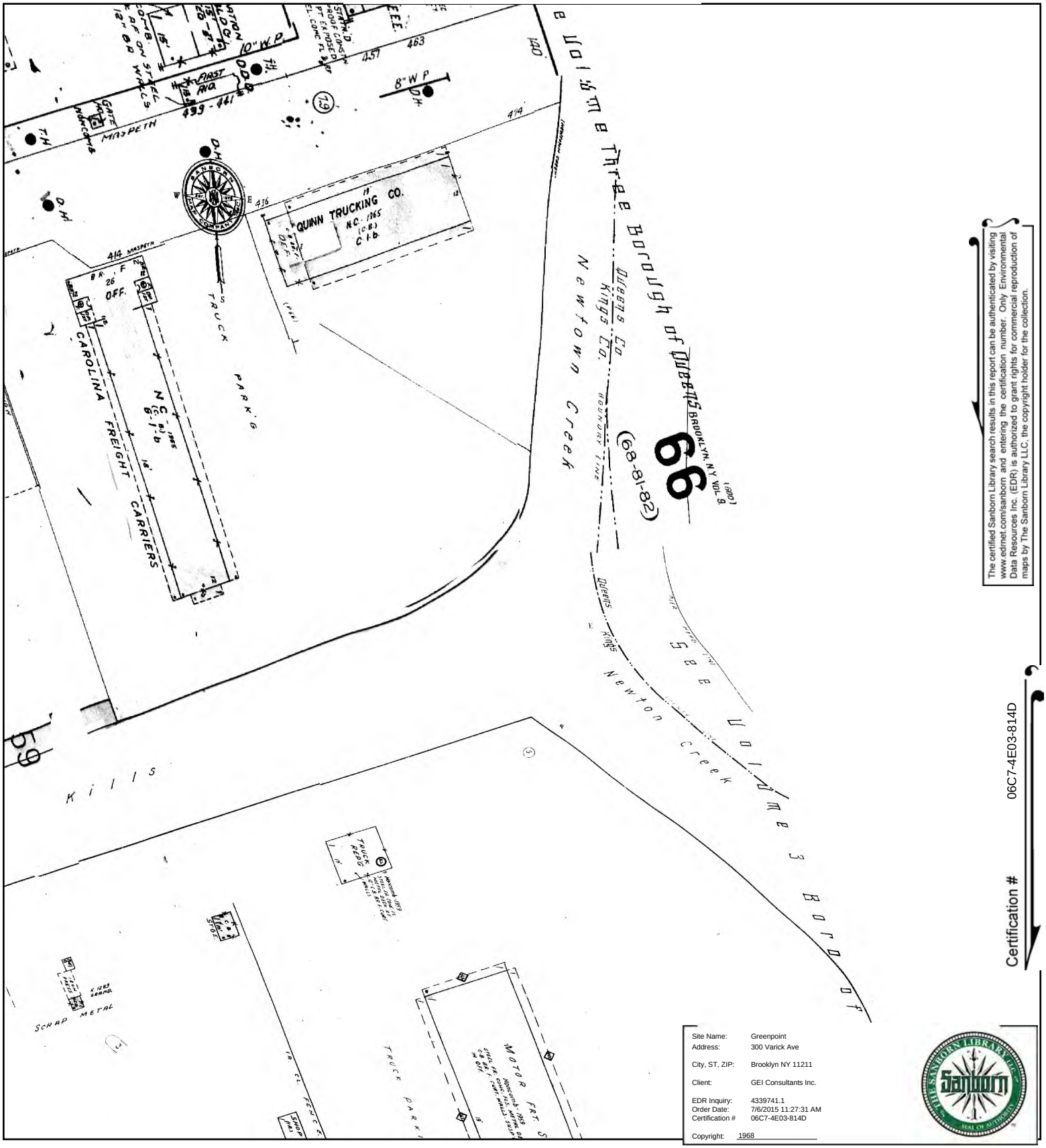
1968 Certified Sanborn Map



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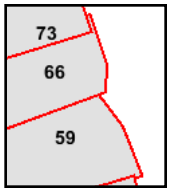

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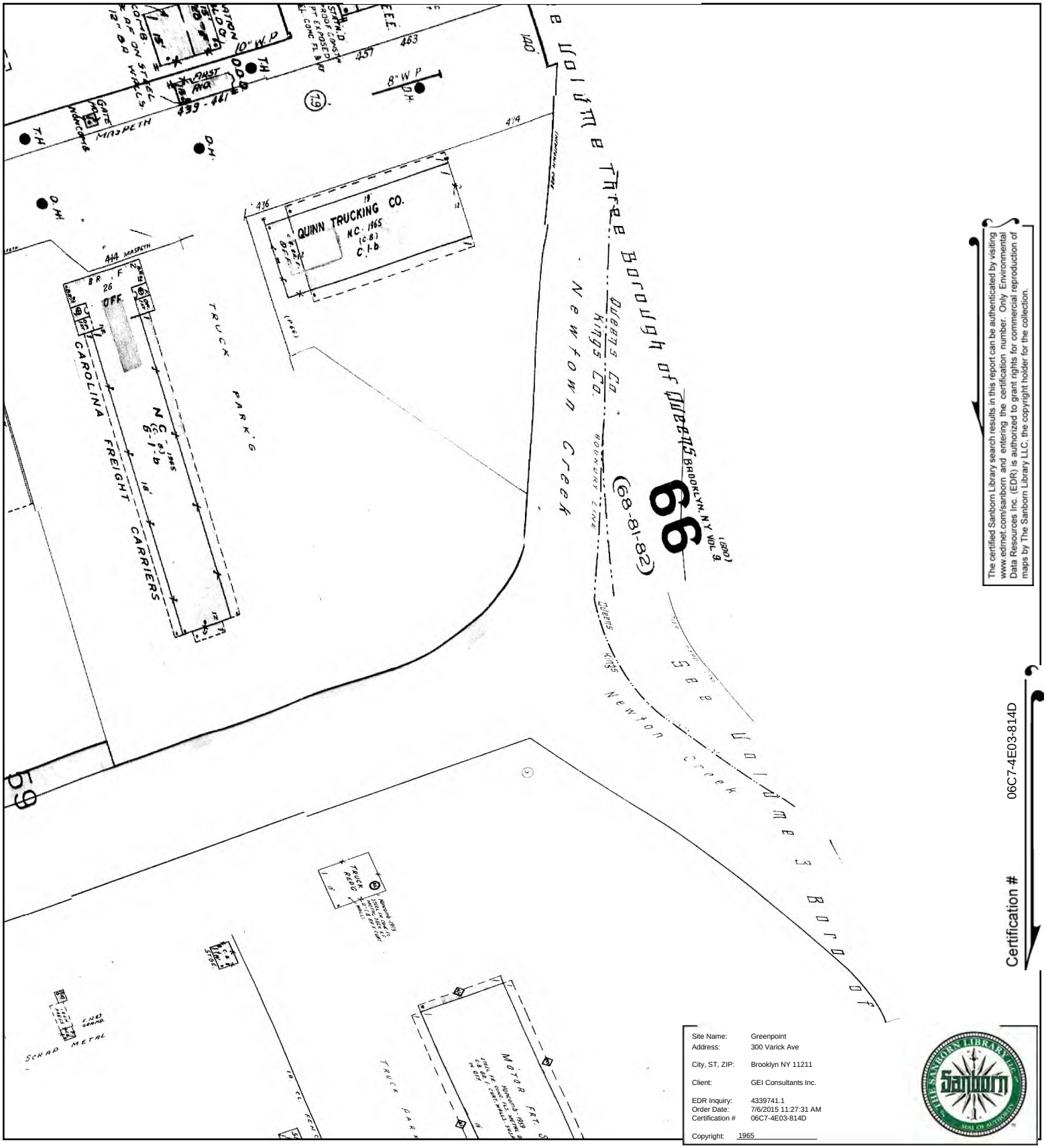
1965 Certified Sanborn Map



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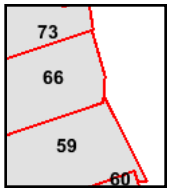

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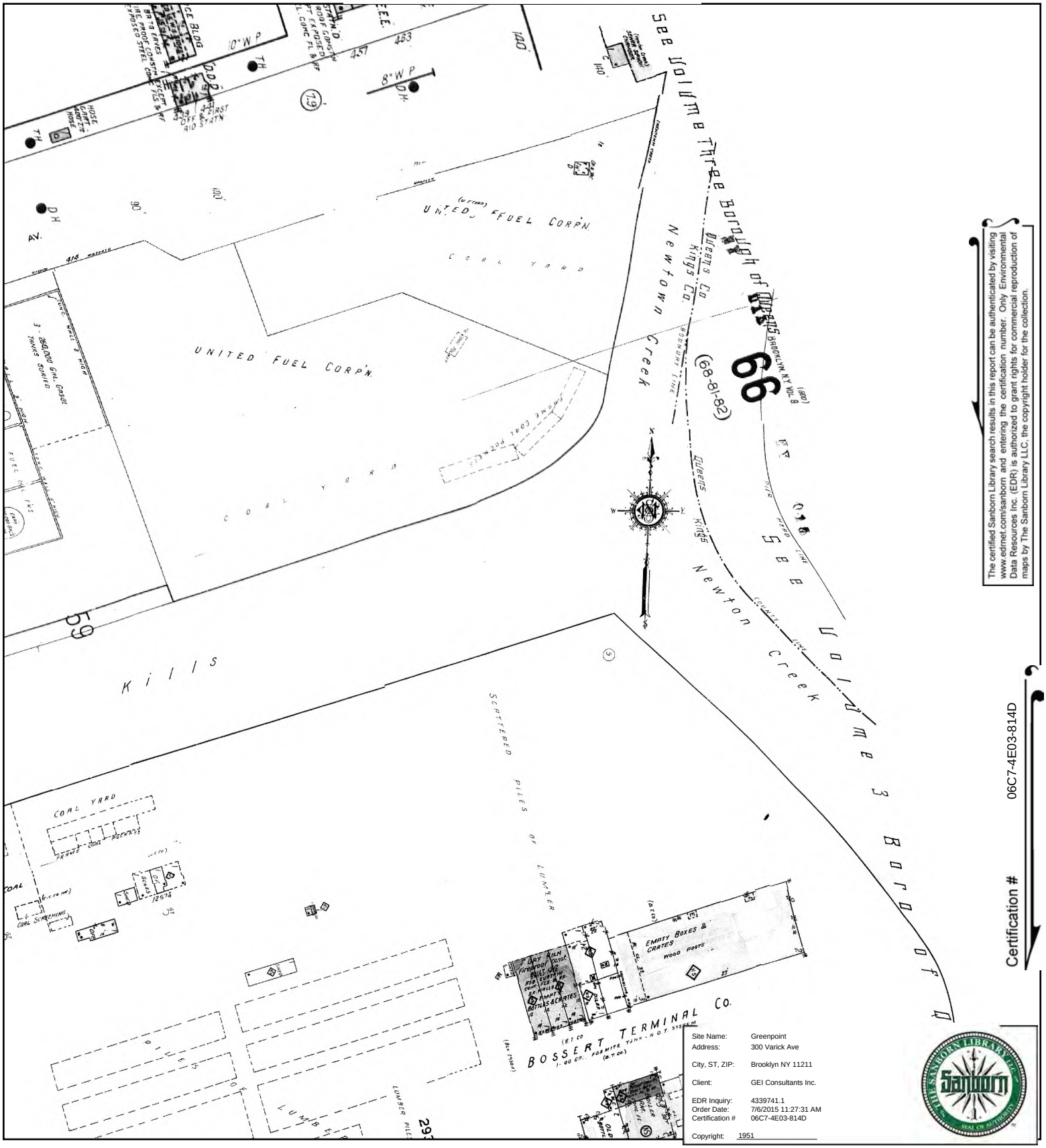
1951 Certified Sanborn Map



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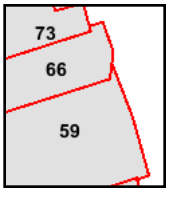
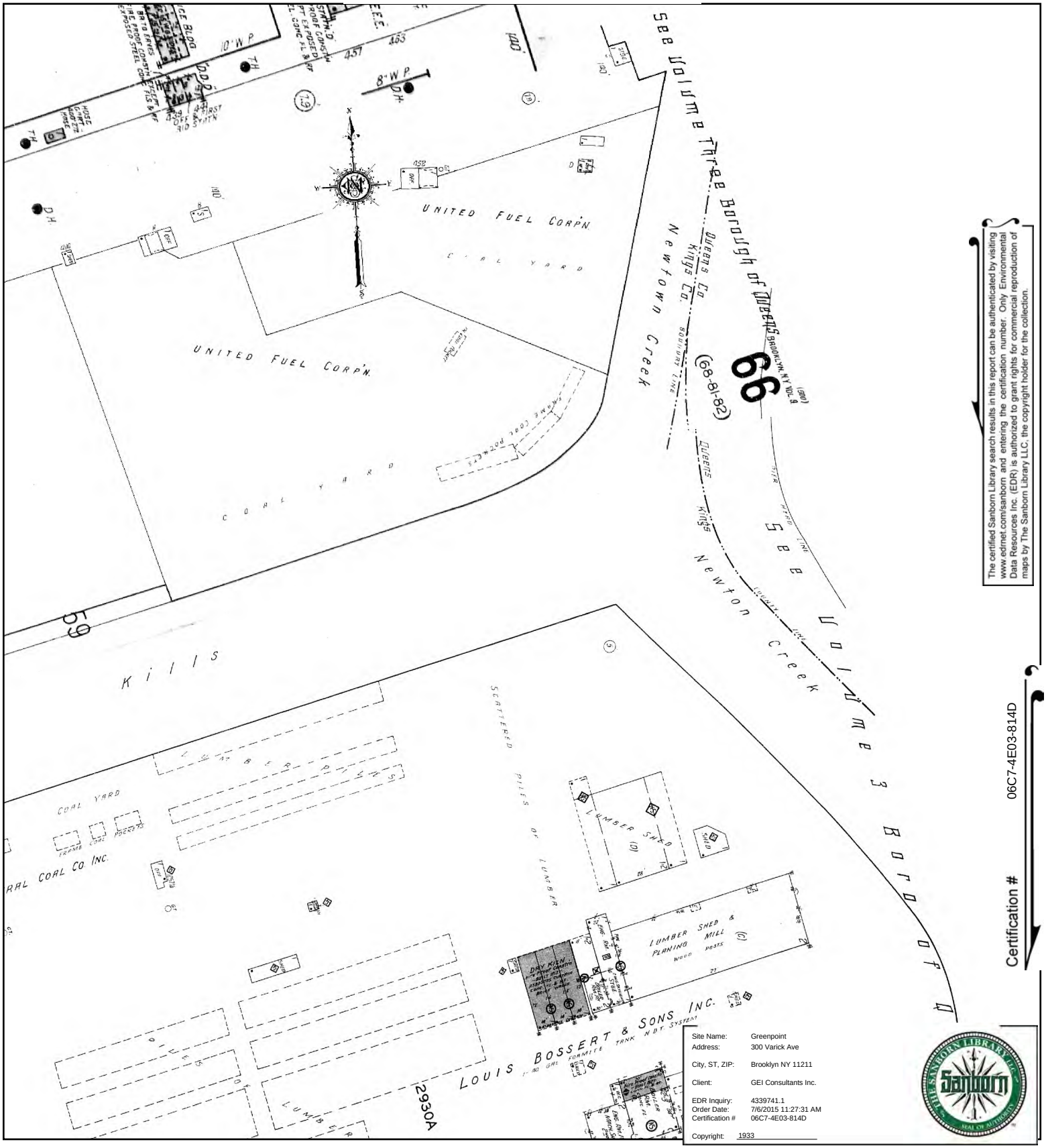


Volume 9, Sheet 59
Volume 9, Sheet 66
Volume 9, Sheet 73

0 Feet 165 330 660

N

1933 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1933

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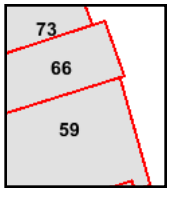
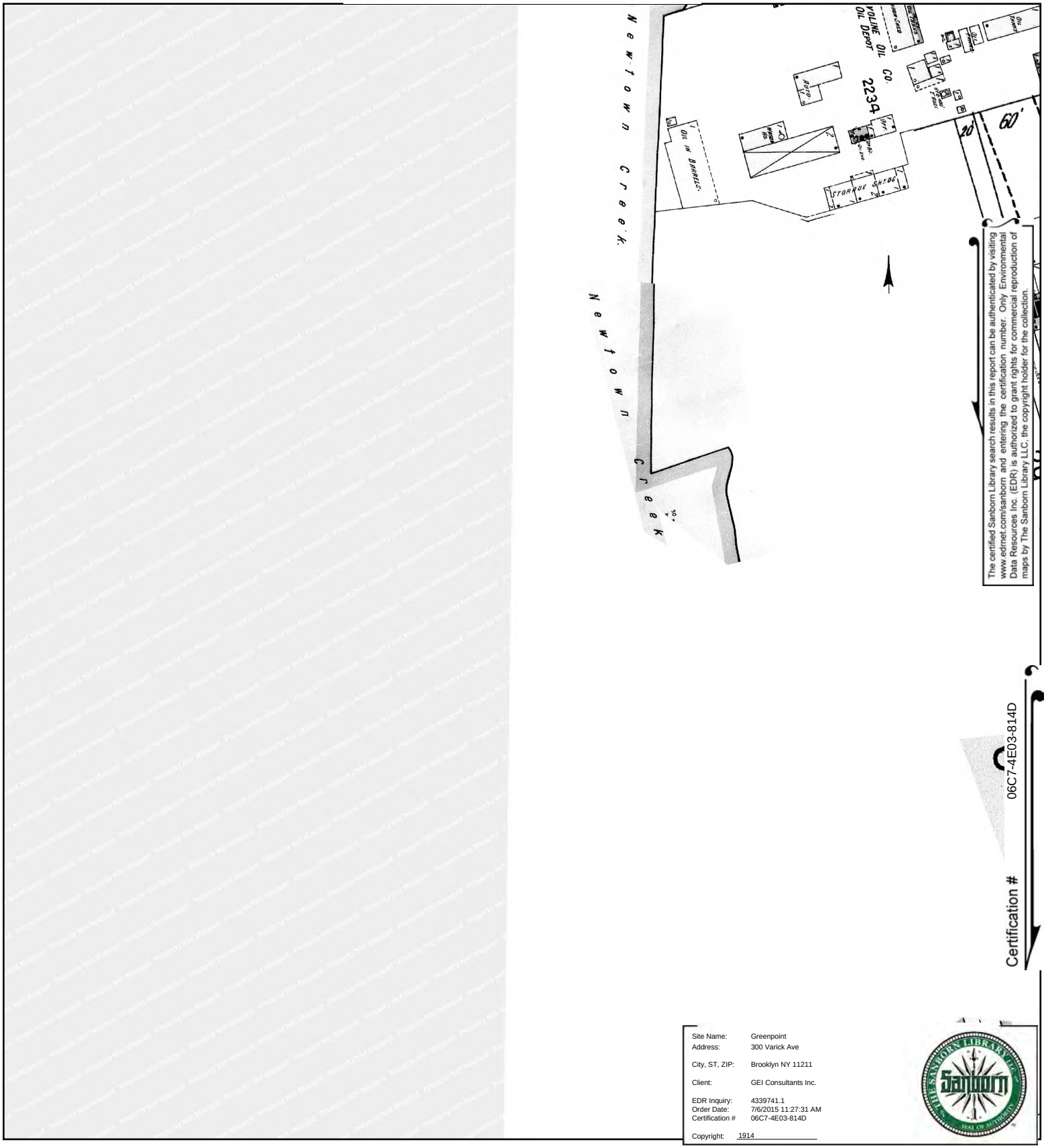


Volume 9, Sheet 59
Volume 9, Sheet 66
Volume 9, Sheet 73

0 Feet 165 330 660

N

1914 Certified Sanborn Map



Site Name: Greenpoint
Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
Order Date: 7/6/2015 11:27:31 AM
Certification # 06C7-4E03-814D
Copyright: 1914

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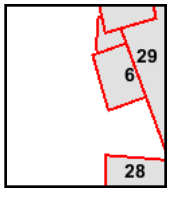

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Volume 3, Sheet 28
Volume 3, Sheet 29

0 Feet 165 330 660

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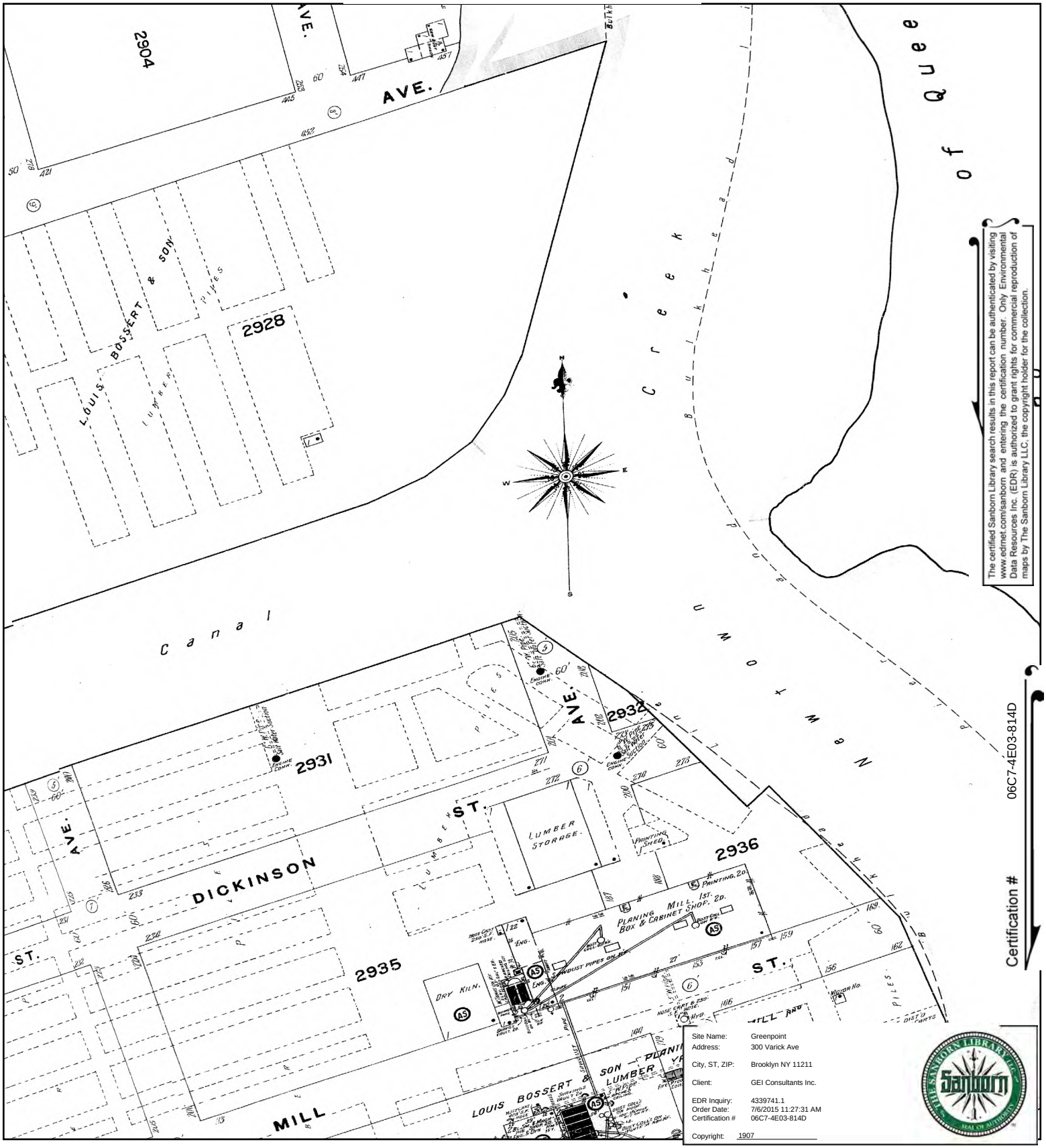
1907 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
Certification #	06C7-4E03-814D
Copyright:	1907

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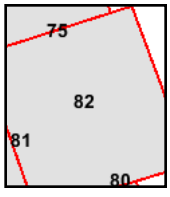
0 Feet 165 330 660





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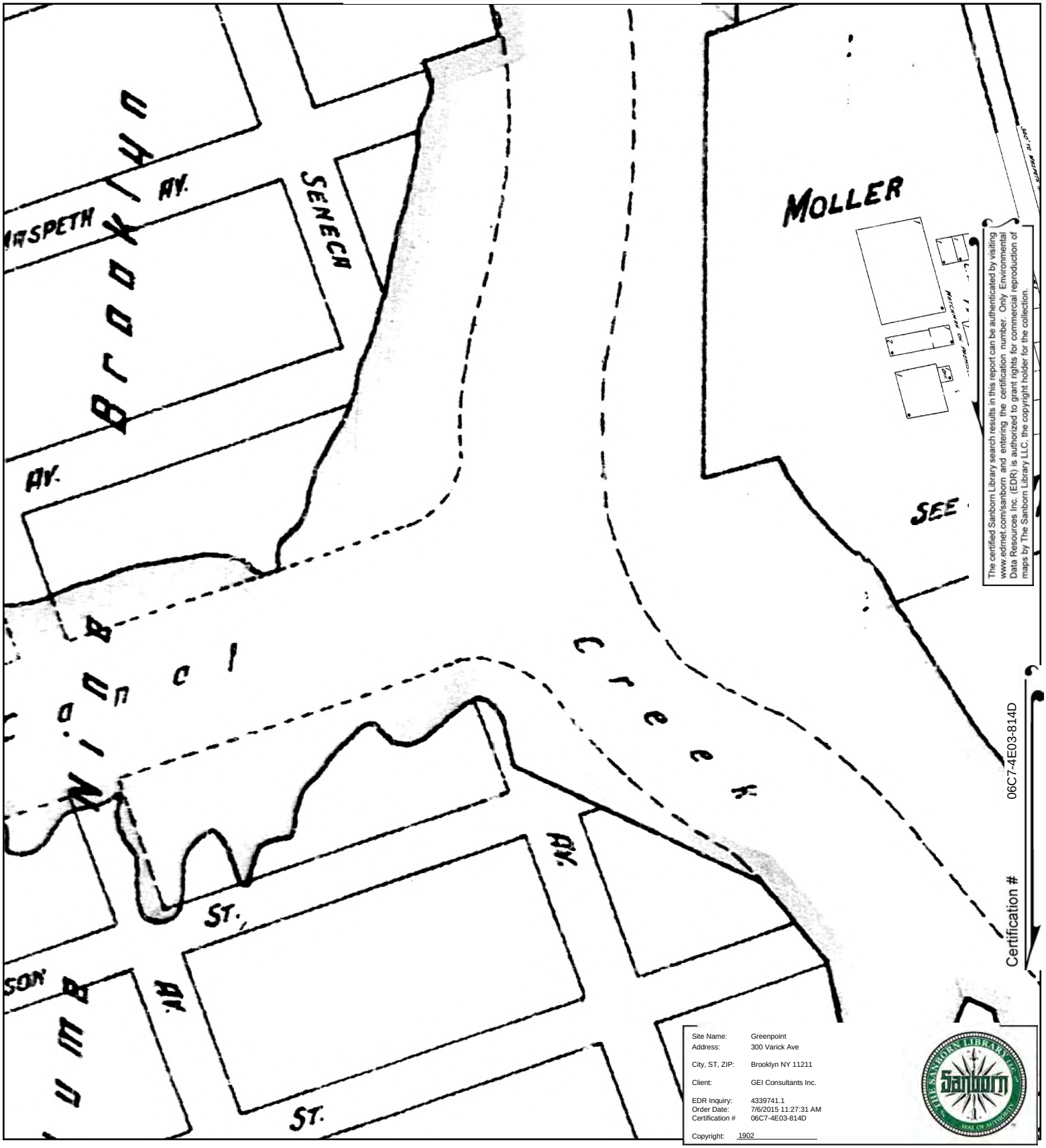
Volume 9, Sheet 82

N

1902 Certified Sanborn Map



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Certification # 06C7-4E03-814D

Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
EDR Inquiry:	4339741.1
Order Date:	7/6/2015 11:27:31 AM
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Copyright:	1902

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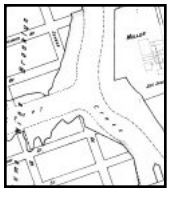

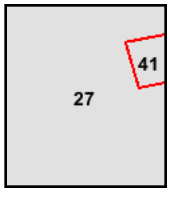

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Volume 3, Sheet 41

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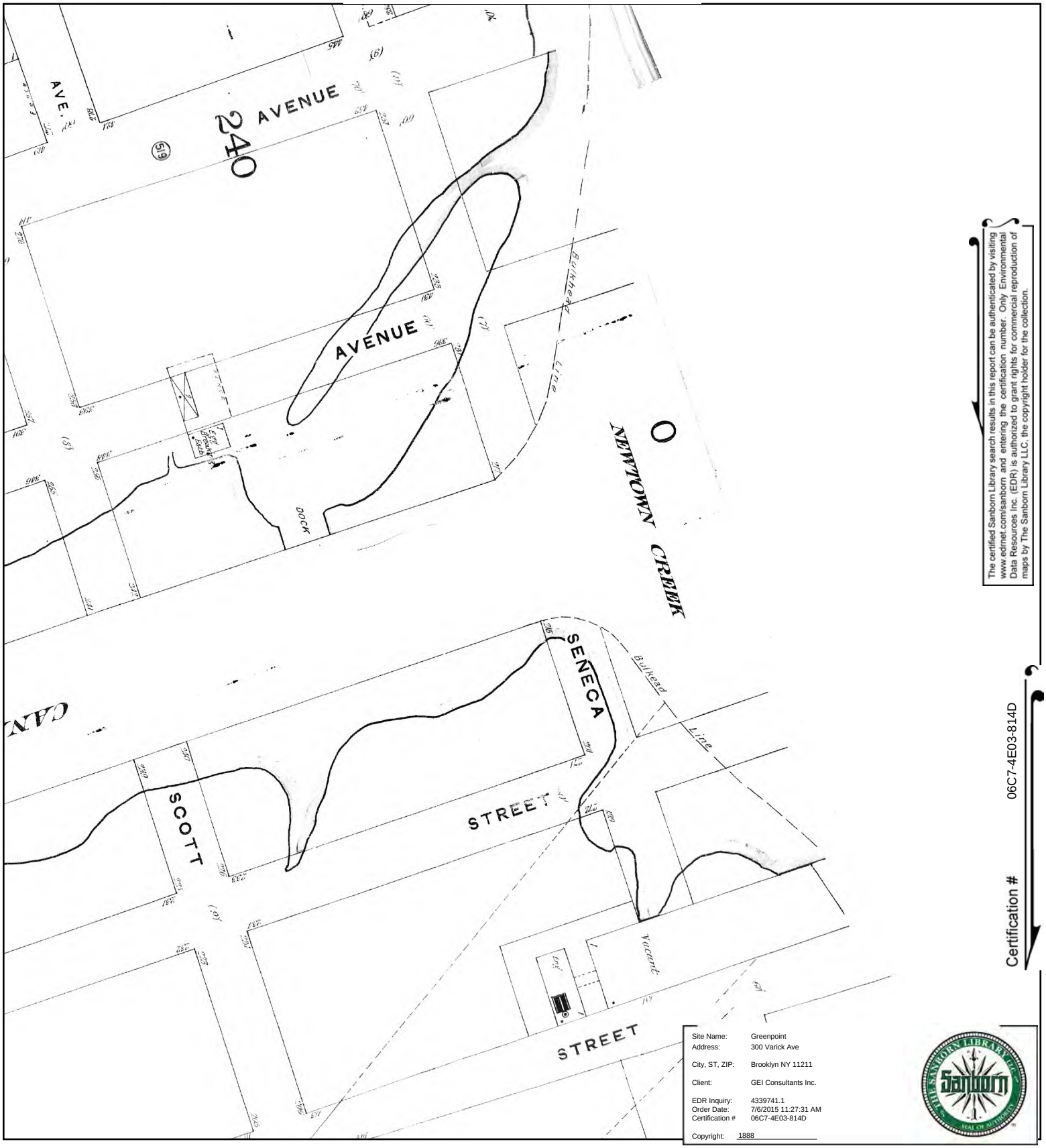
1888 Certified Sanborn Map



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Certification # 06C7-4E03-814D

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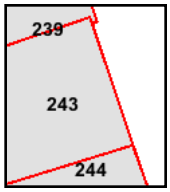
Outlined areas indicate map sheets within the collection.





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Volume 9, Sheet 243
Volume 9, Sheet 244

0 Feet 165 330 660

N

Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

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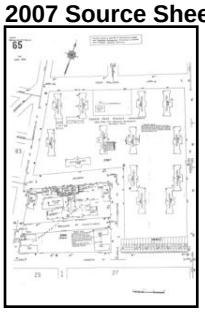
2007 Source Sheets



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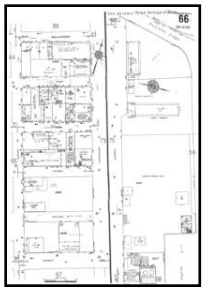

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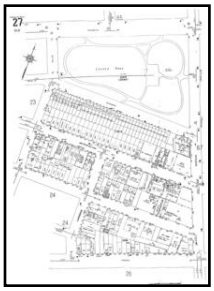

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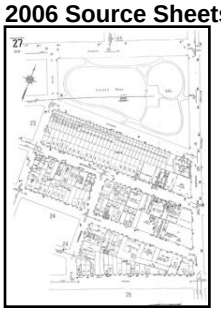
2006 Source Sheets



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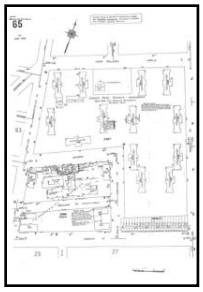

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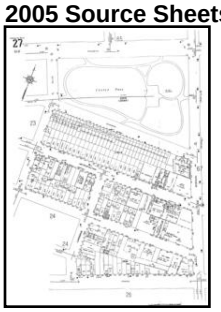
2005 Source Sheets



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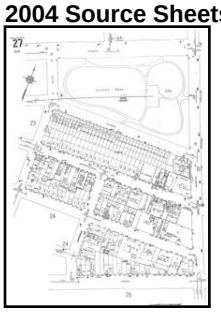
2004 Source Sheets



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2003 Source Sheets



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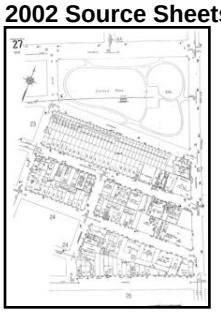
2002 Source Sheets



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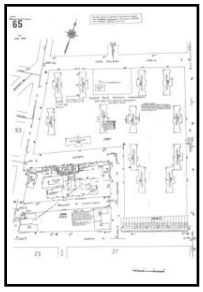

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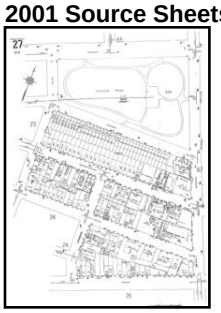
2001 Source Sheets



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1995 Source Sheets



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1994 Source Sheets



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1993 Source Sheets



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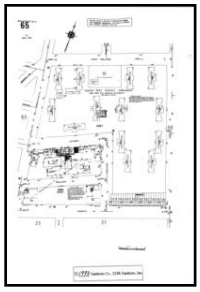

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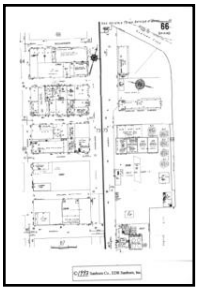

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1992 Source Sheets



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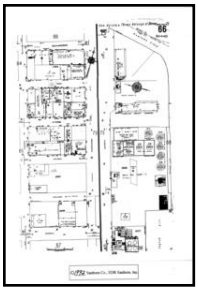

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1991 Source Sheets



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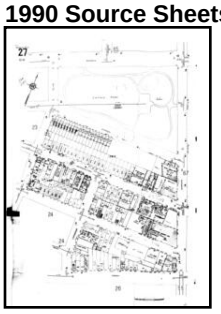
1990 Source Sheets



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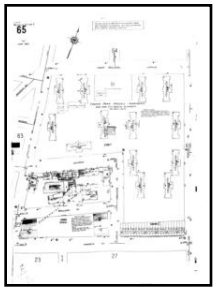

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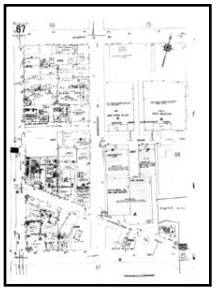

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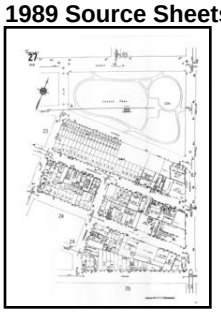

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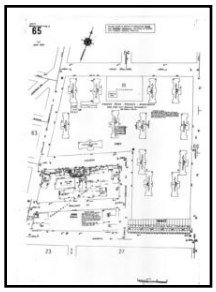

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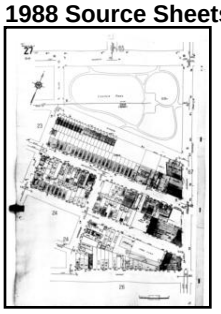
1988 Source Sheets



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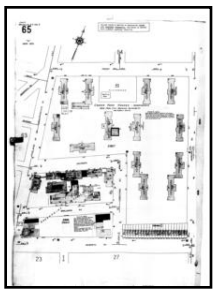

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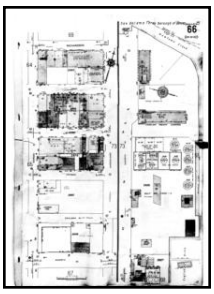

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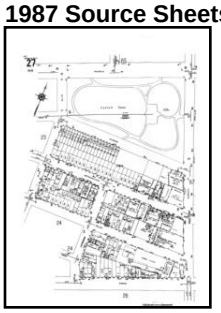

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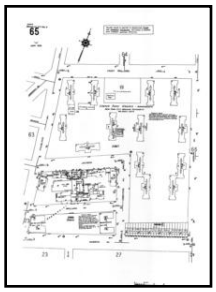

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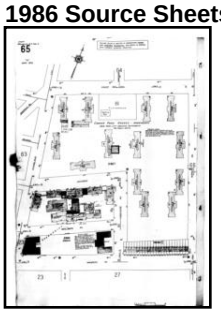
1986 Source Sheets



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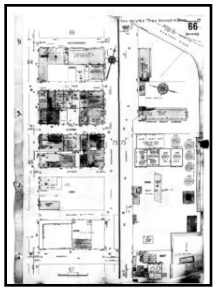

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1982 Source Sheets



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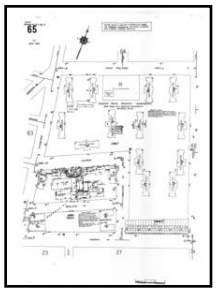

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1981 Source Sheets



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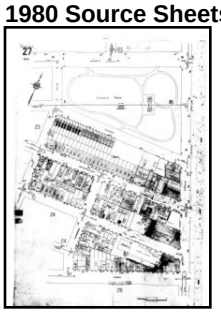
1980 Source Sheets



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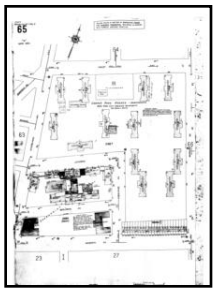

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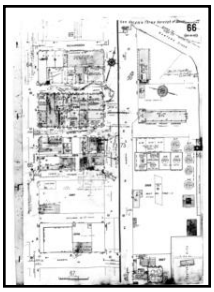

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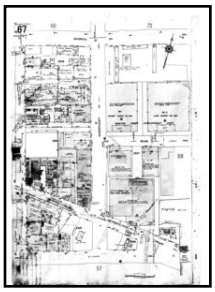

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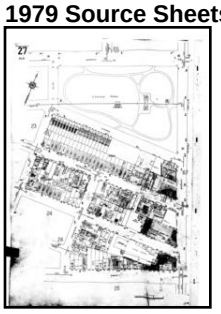

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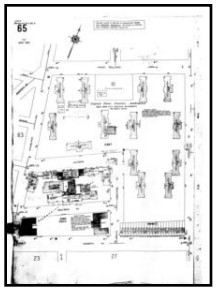

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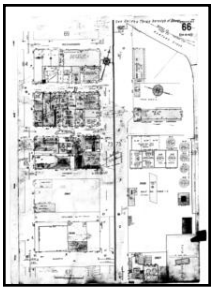

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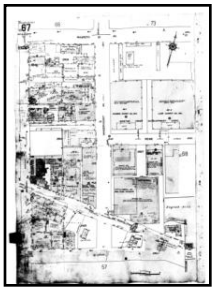

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1977 Source Sheets



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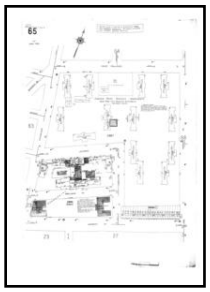

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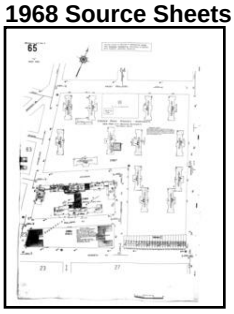
1968 Source Sheets



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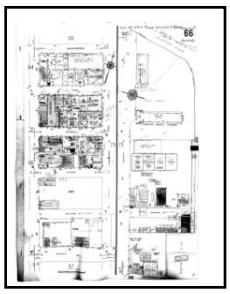

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1965 Source Sheets



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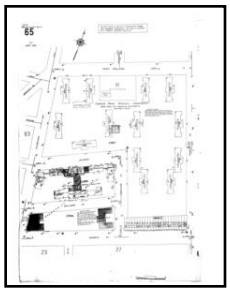

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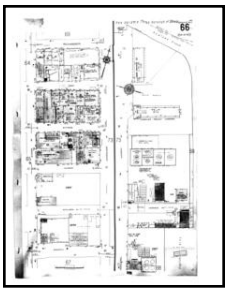

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1951 Source Sheets



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1933 Source Sheets



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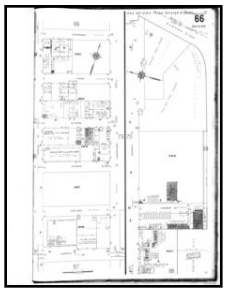

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Volume 9, Sheet 27

1907 Source Sheets



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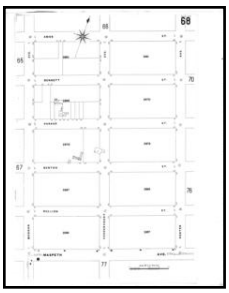
Volume 9, Sheet 66



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1888 Source Sheets



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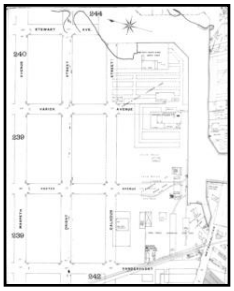

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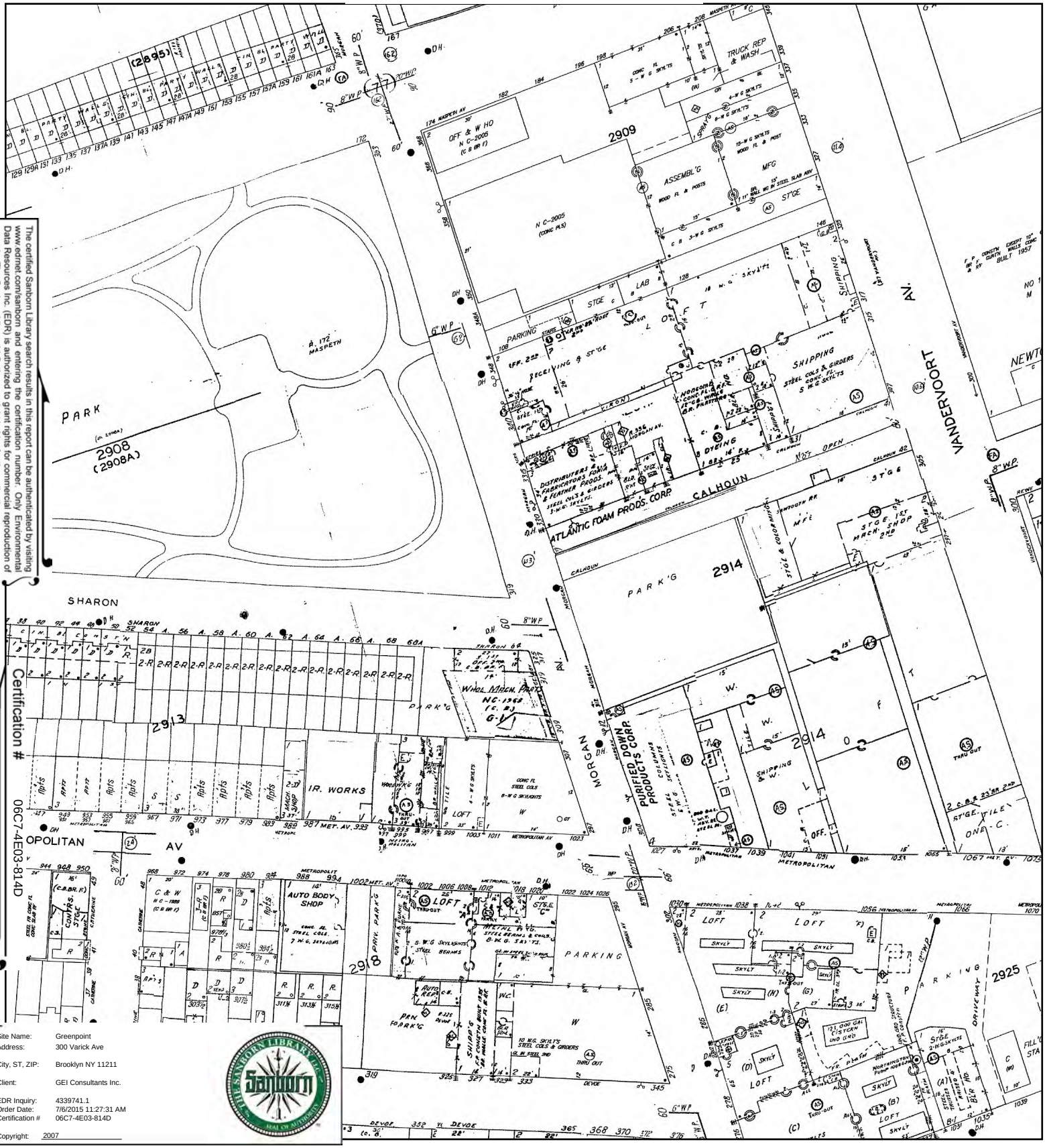
2007 Certified Sanborn Map



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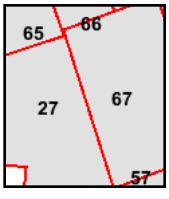

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2006 Certified Sanborn Map



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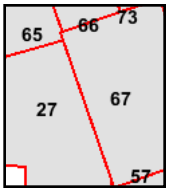

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2005 Certified Sanborn Map



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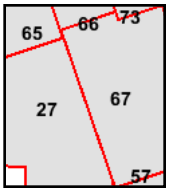

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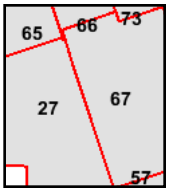

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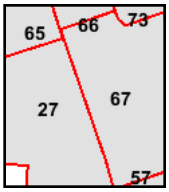

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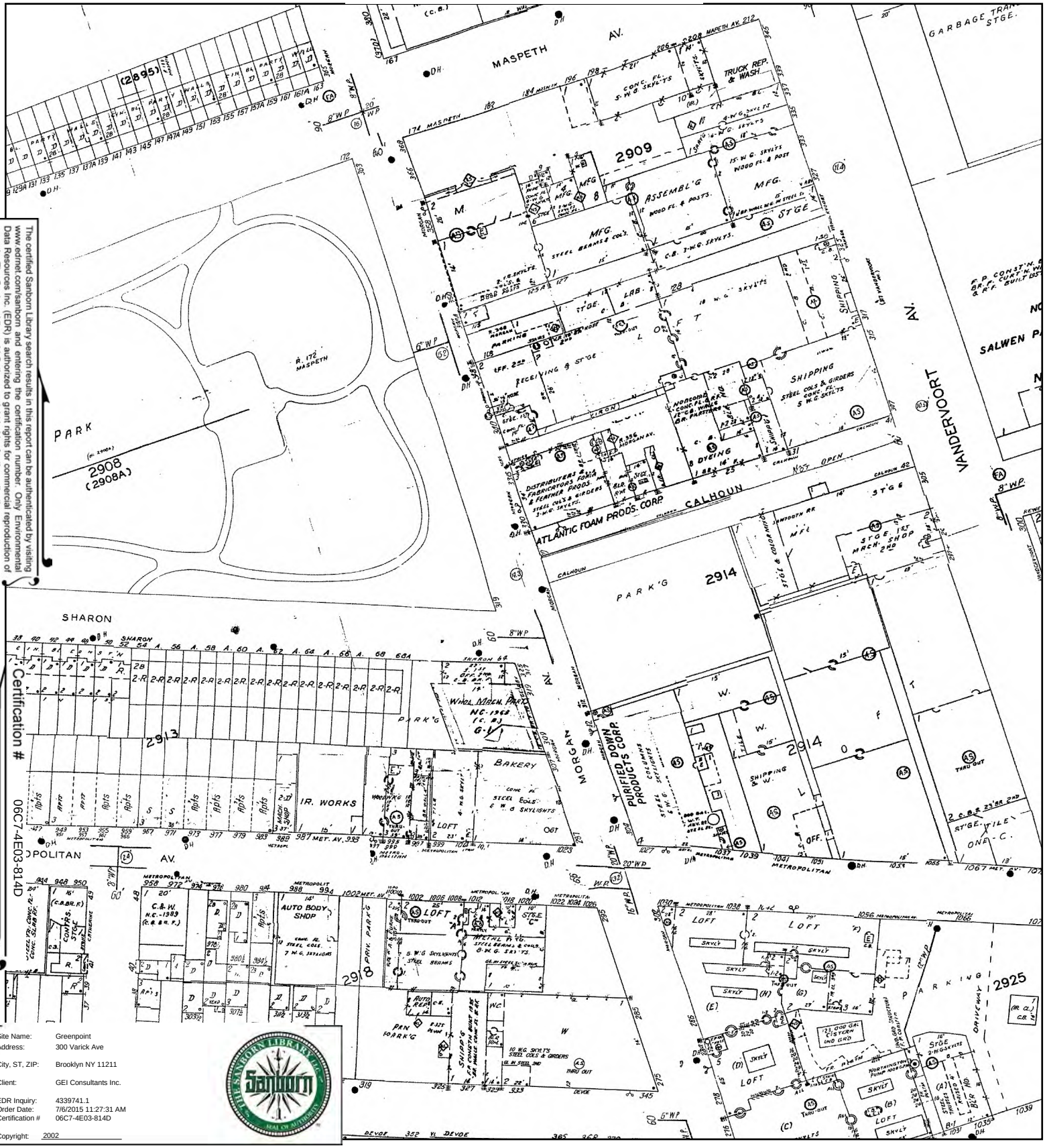

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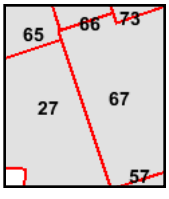

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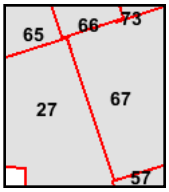

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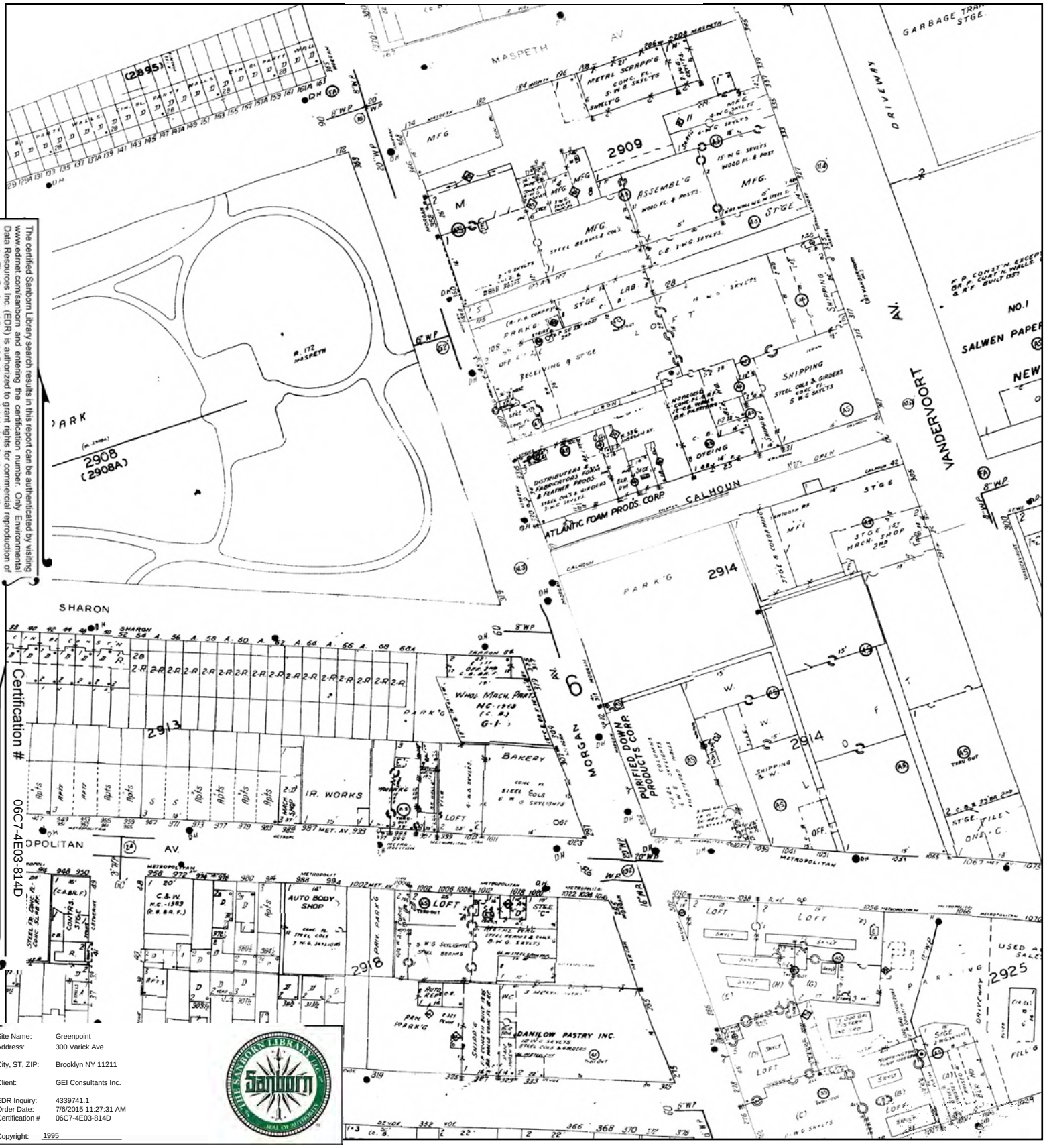
1995 Certified Sanborn Map



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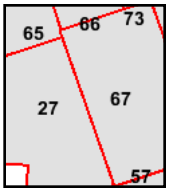

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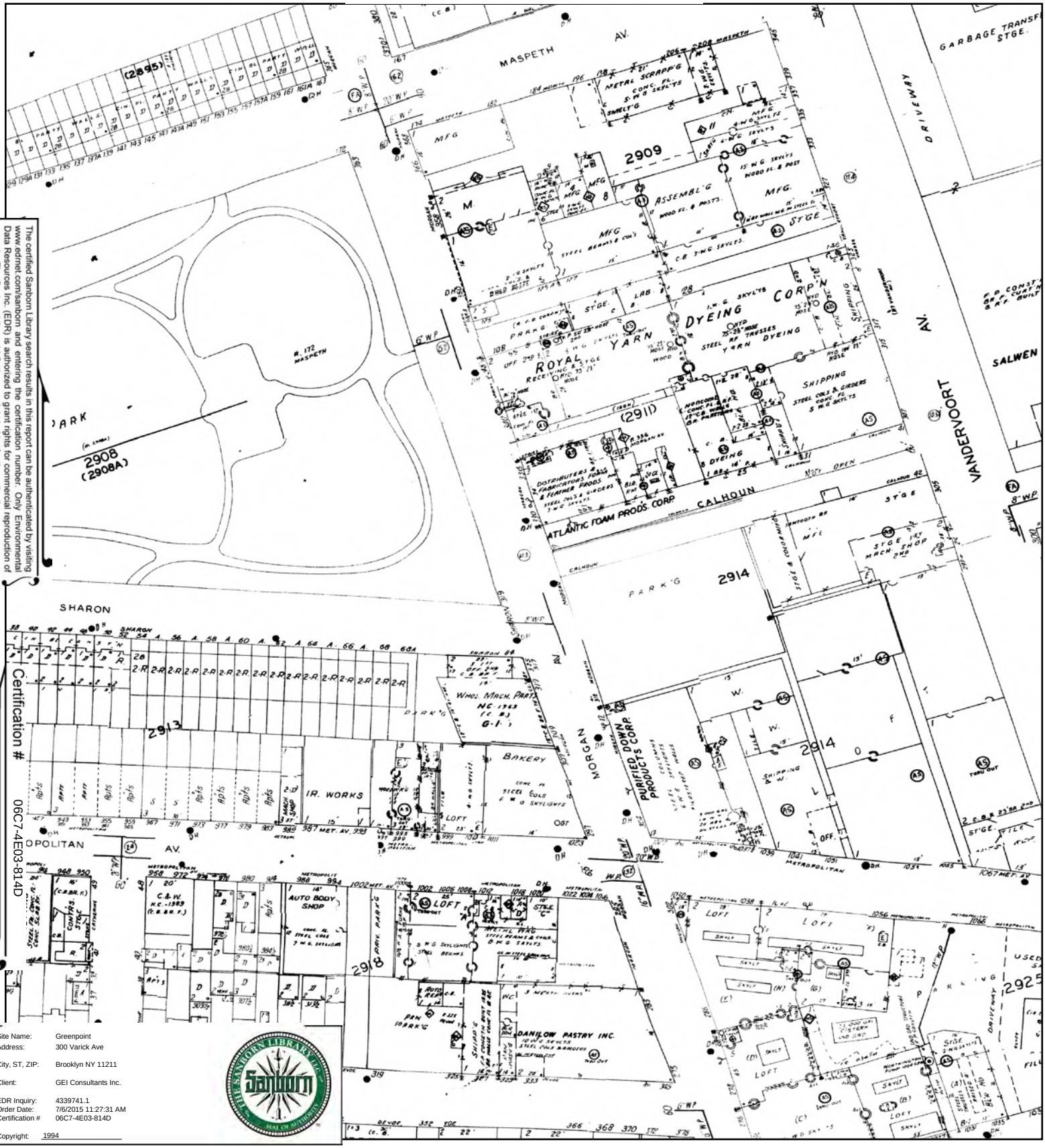
1994 Certified Sanborn Map



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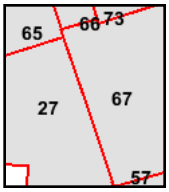

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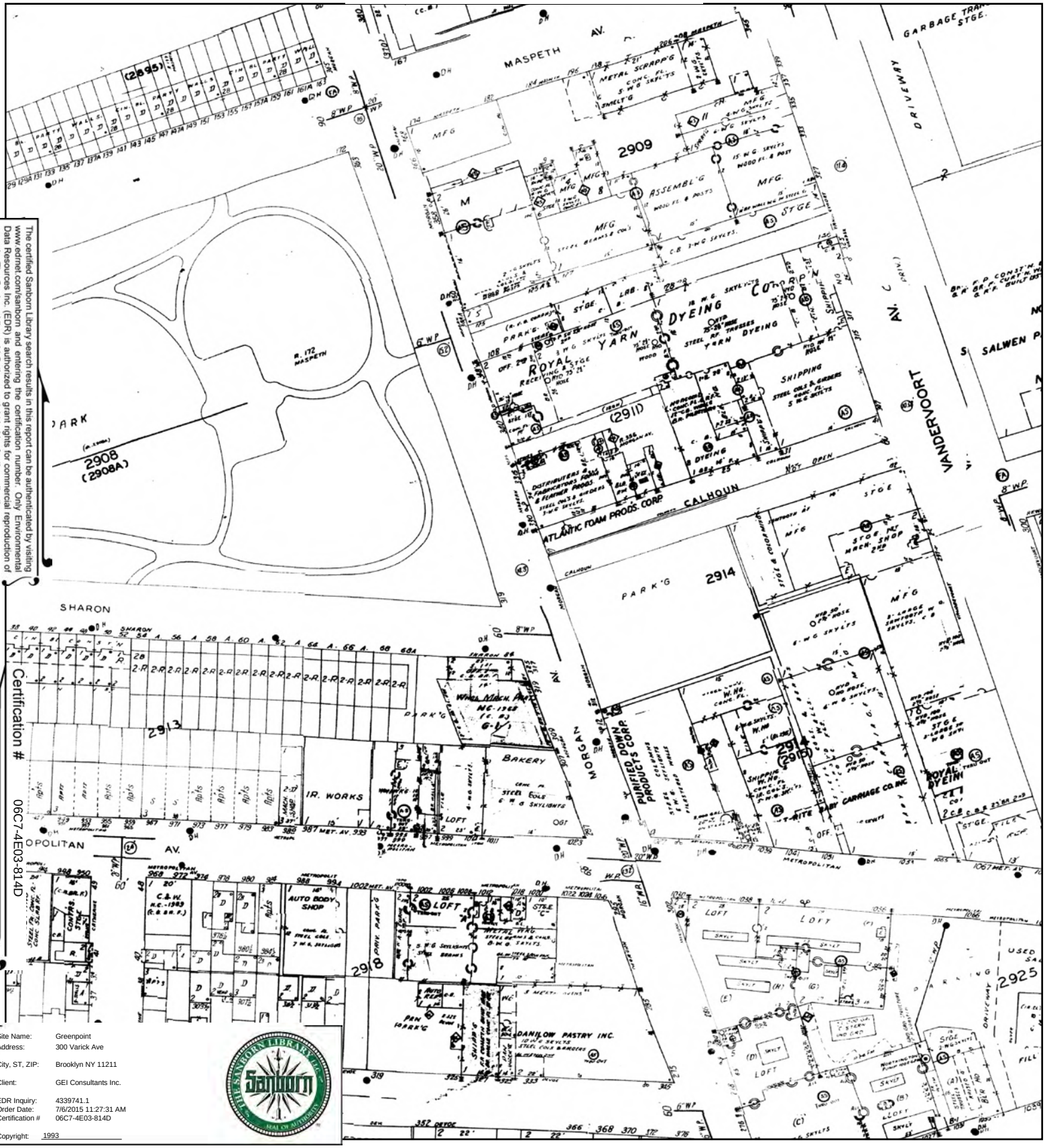
1993 Certified Sanborn Map



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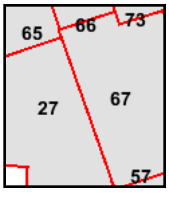

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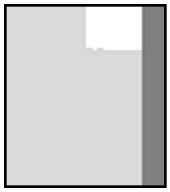

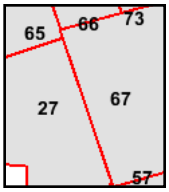

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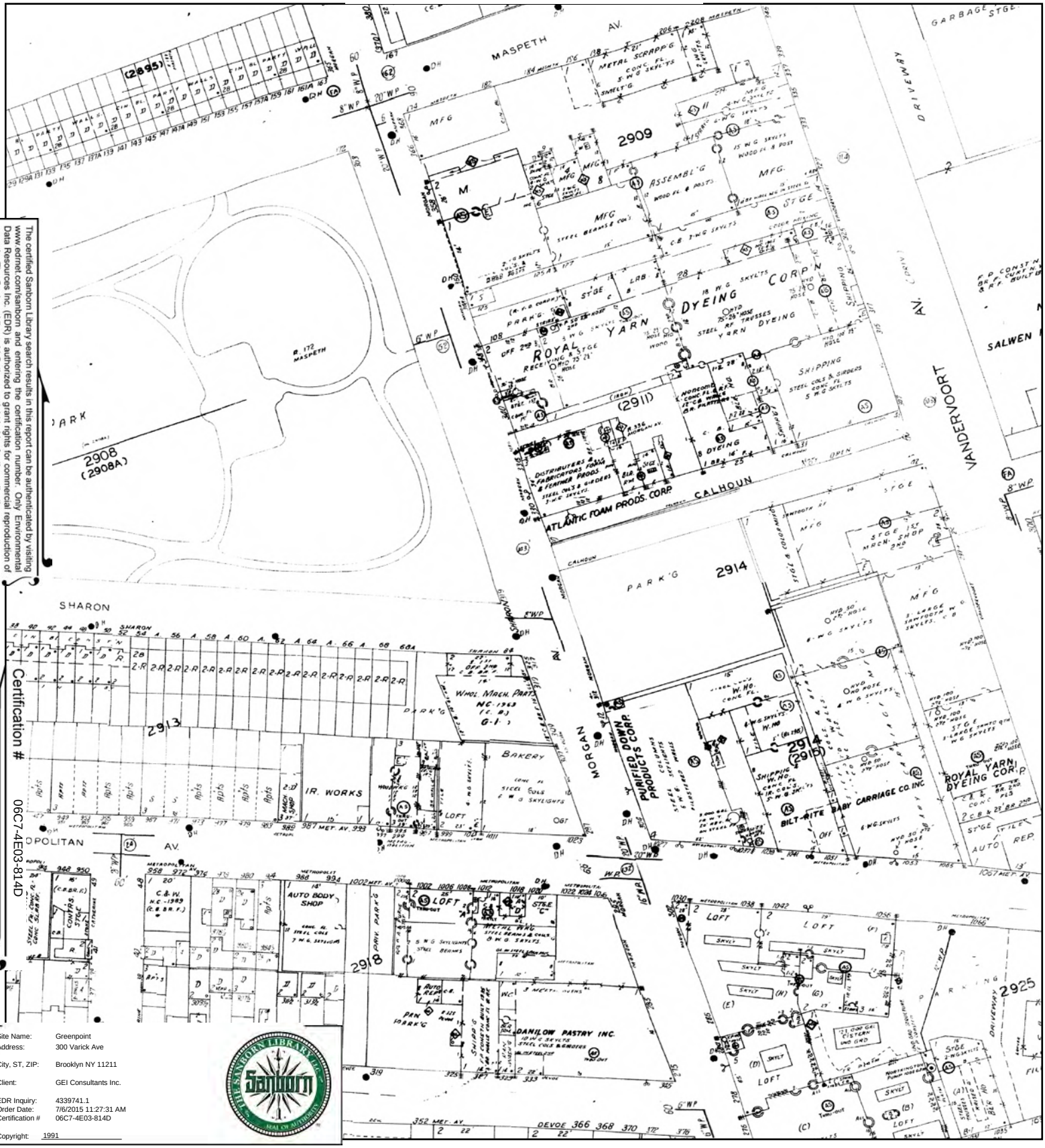

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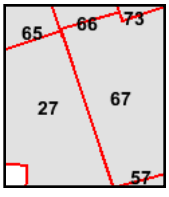

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1990 Certified Sanborn Map



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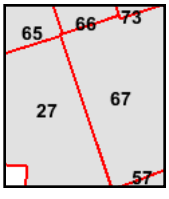

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0 Feet 165 330 660

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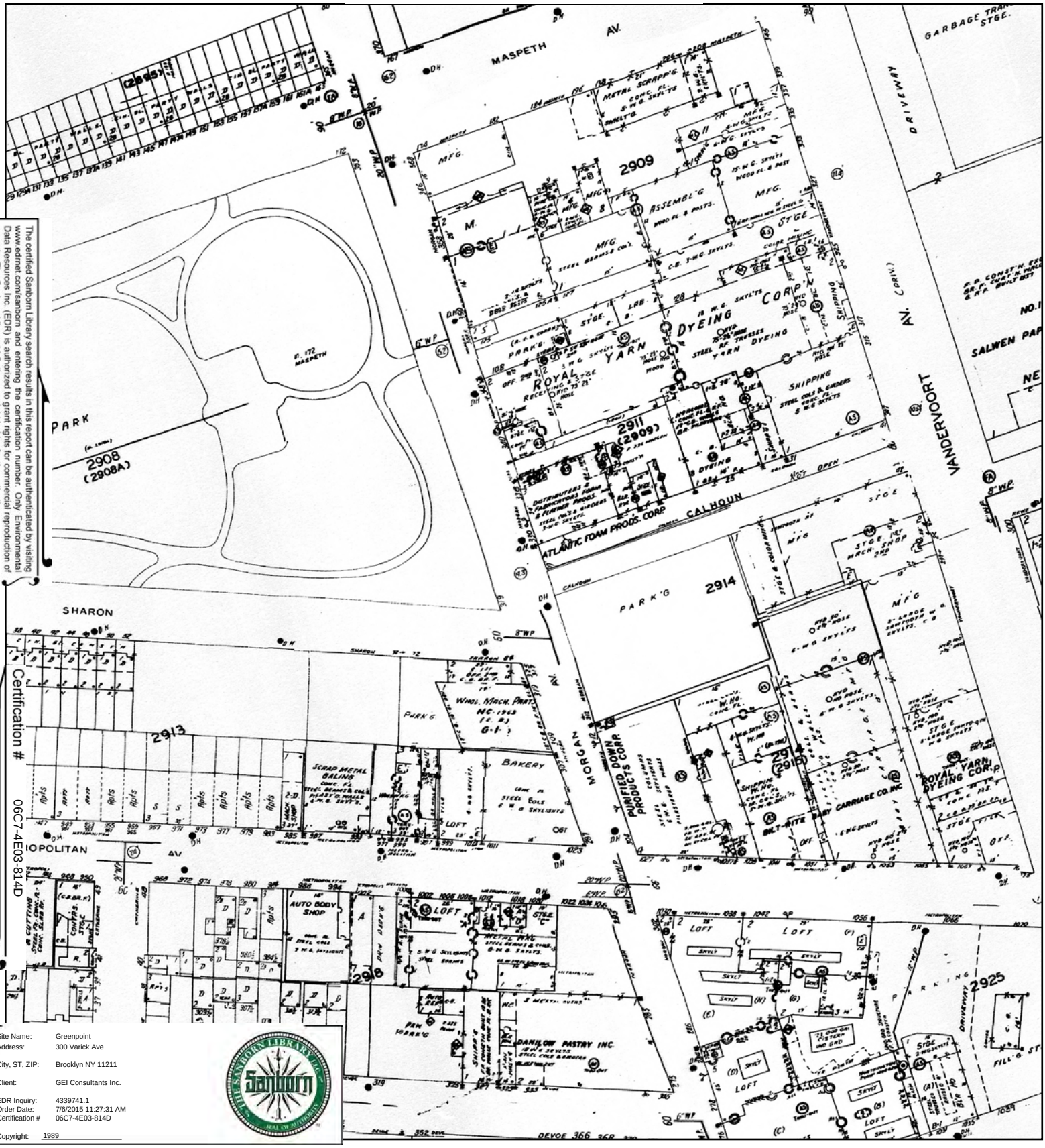
1989 Certified Sanborn Map



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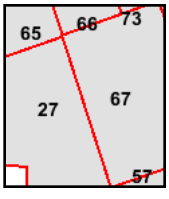

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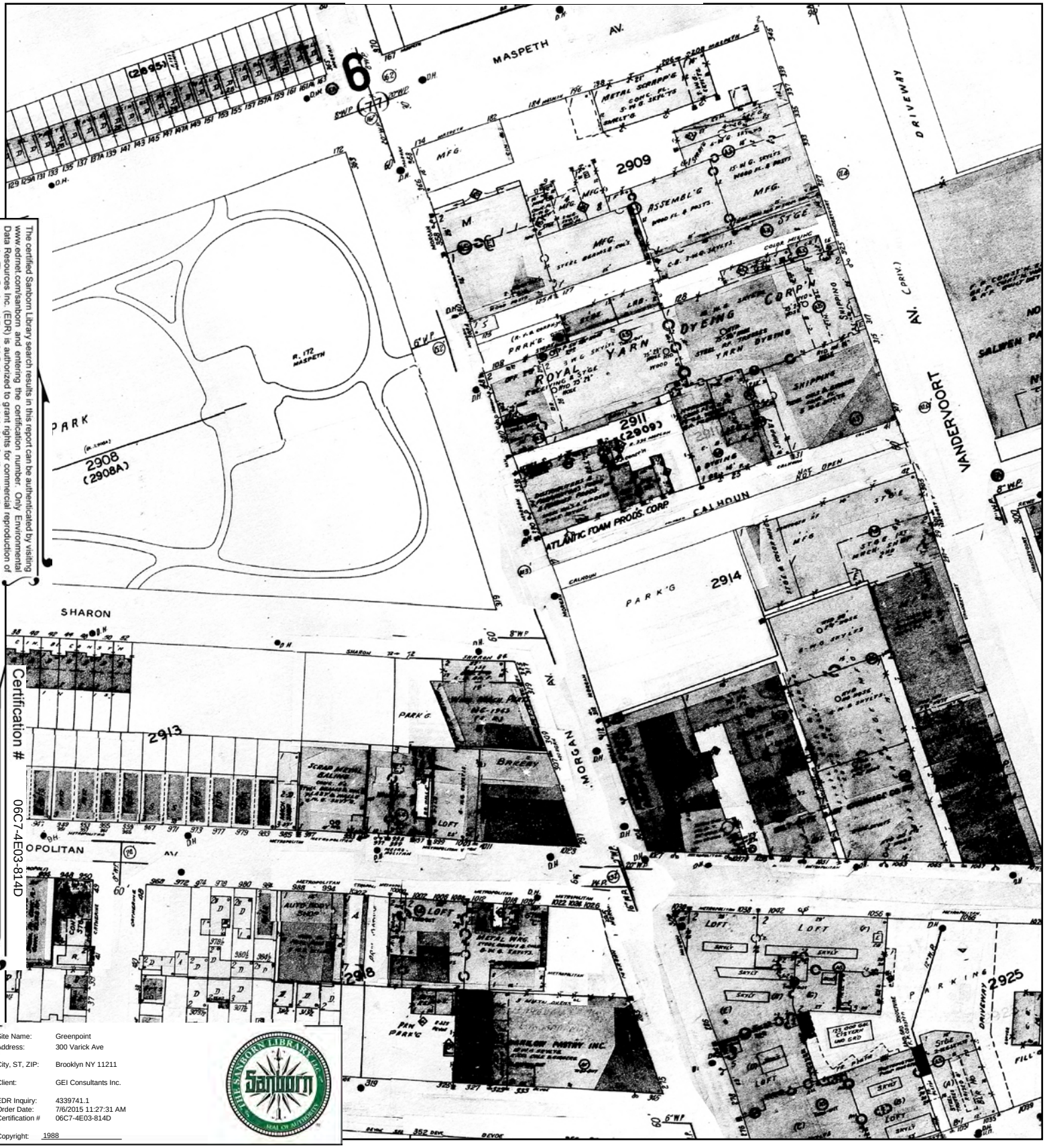
1988 Certified Sanborn Map



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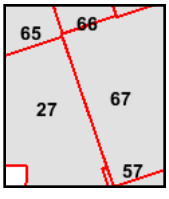

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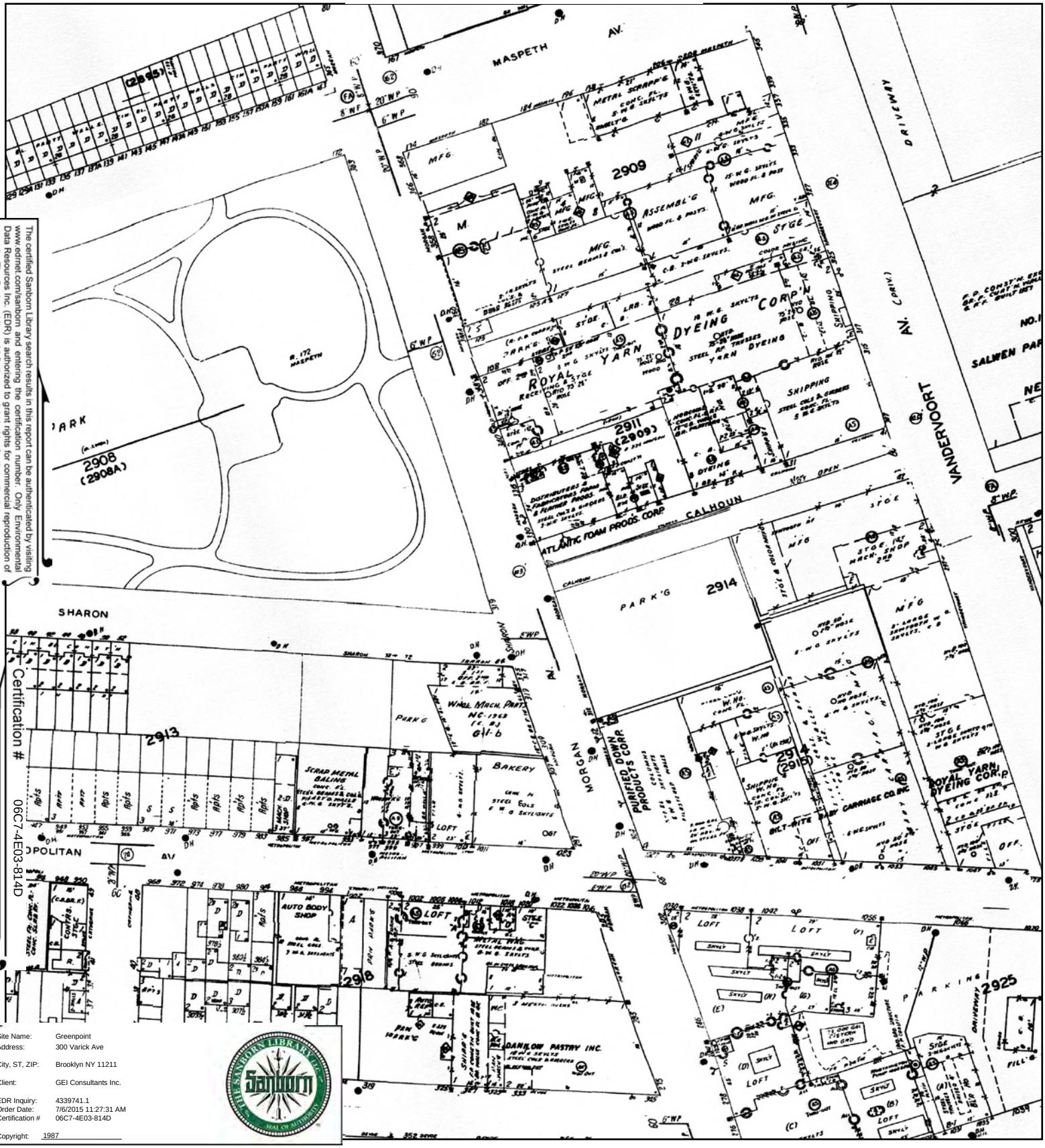
1987 Certified Sanborn Map



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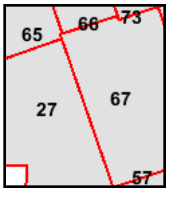

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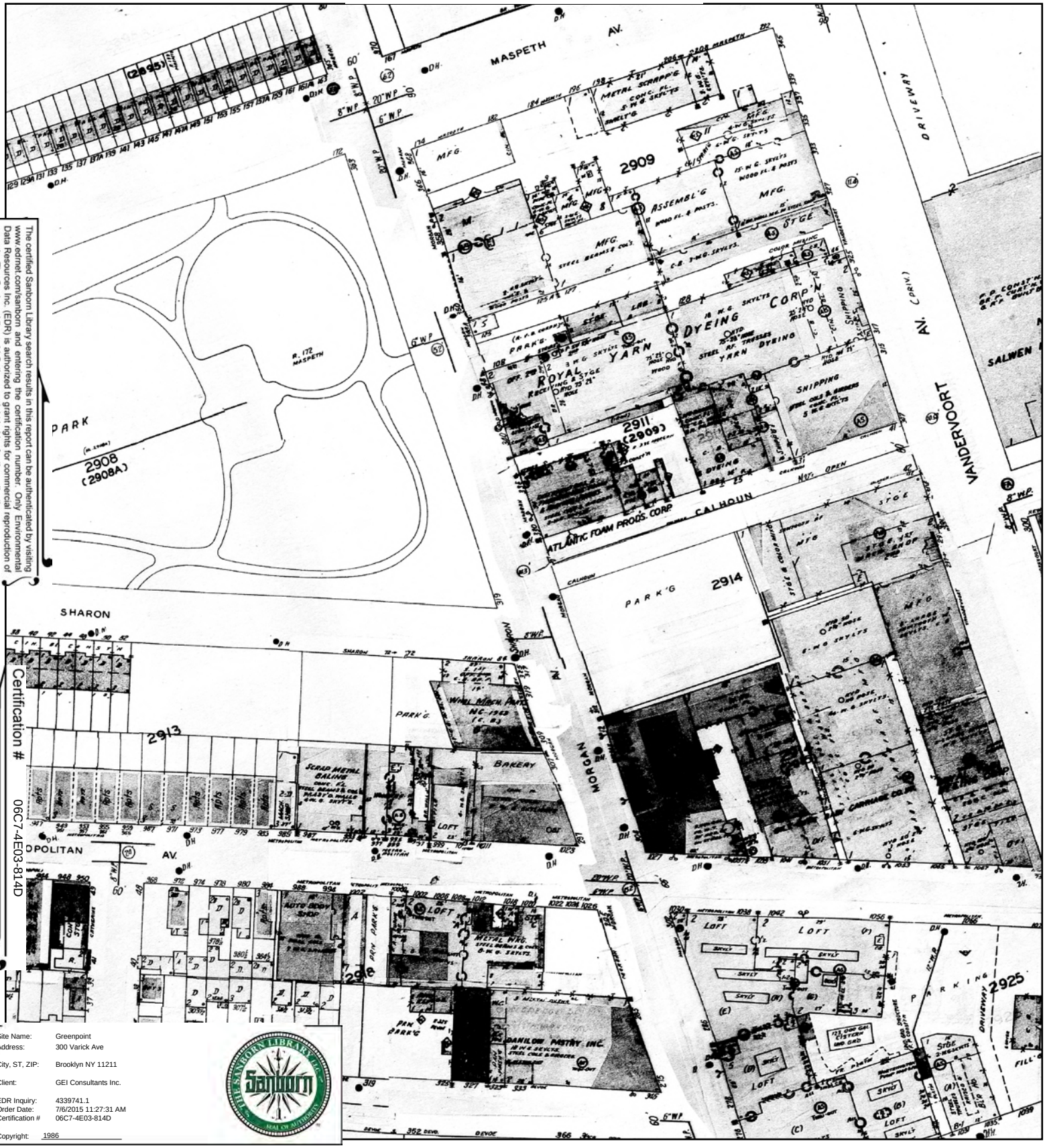
1986 Certified Sanborn Map



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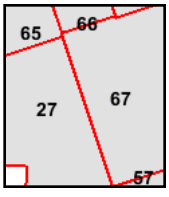

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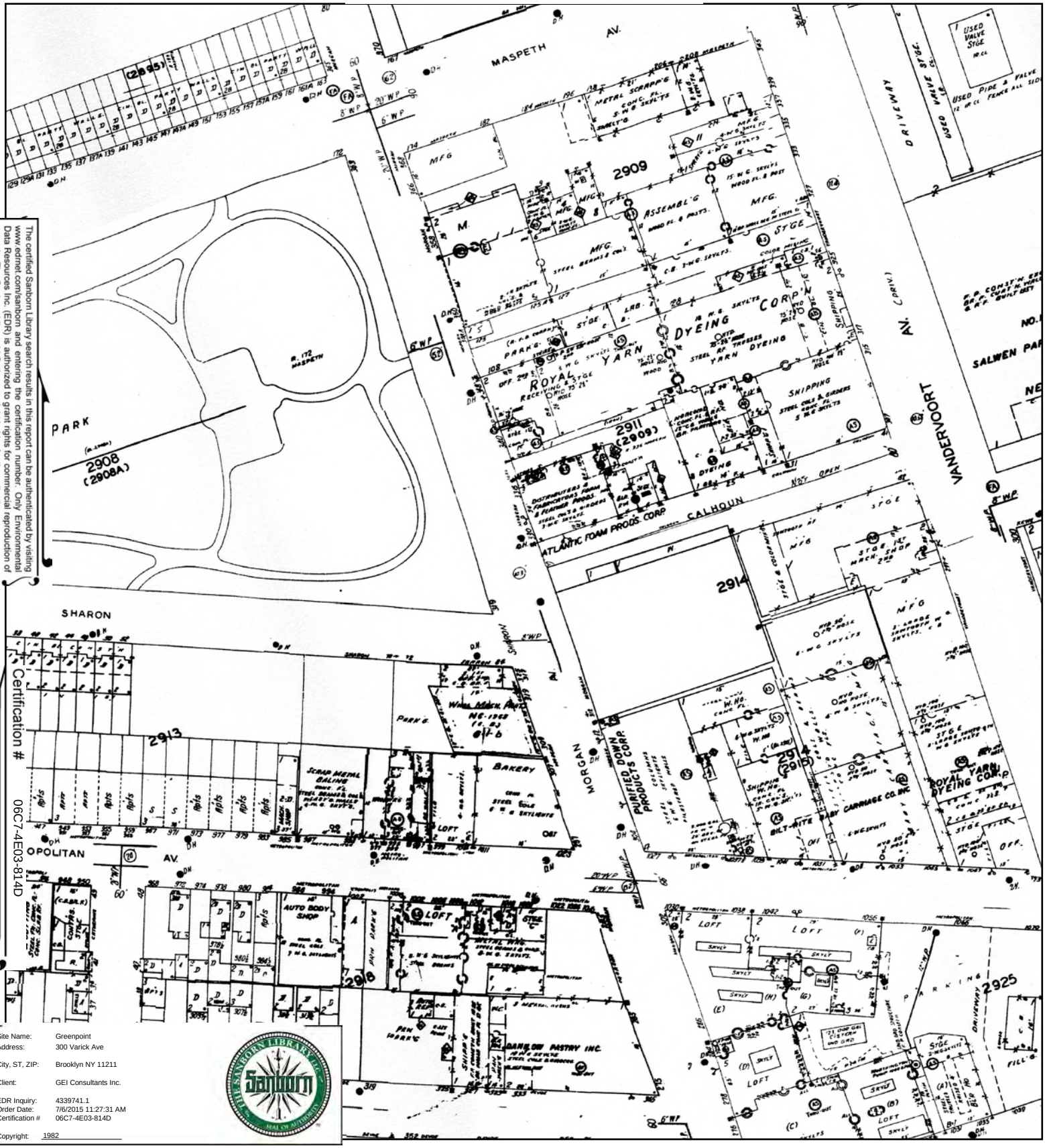
1982 Certified Sanborn Map



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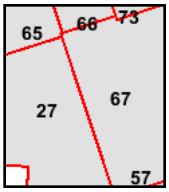

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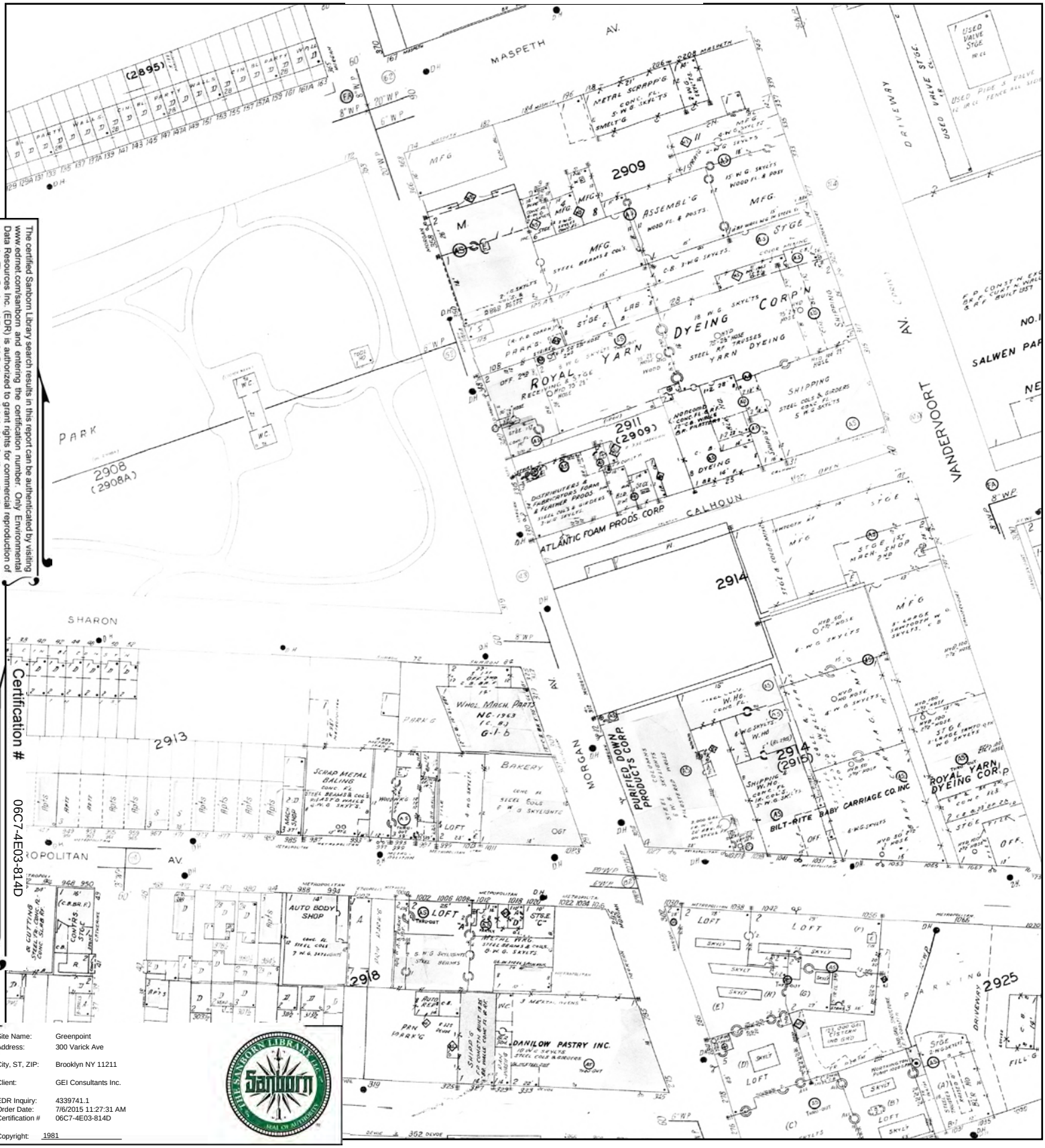
1981 Certified Sanborn Map



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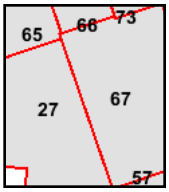

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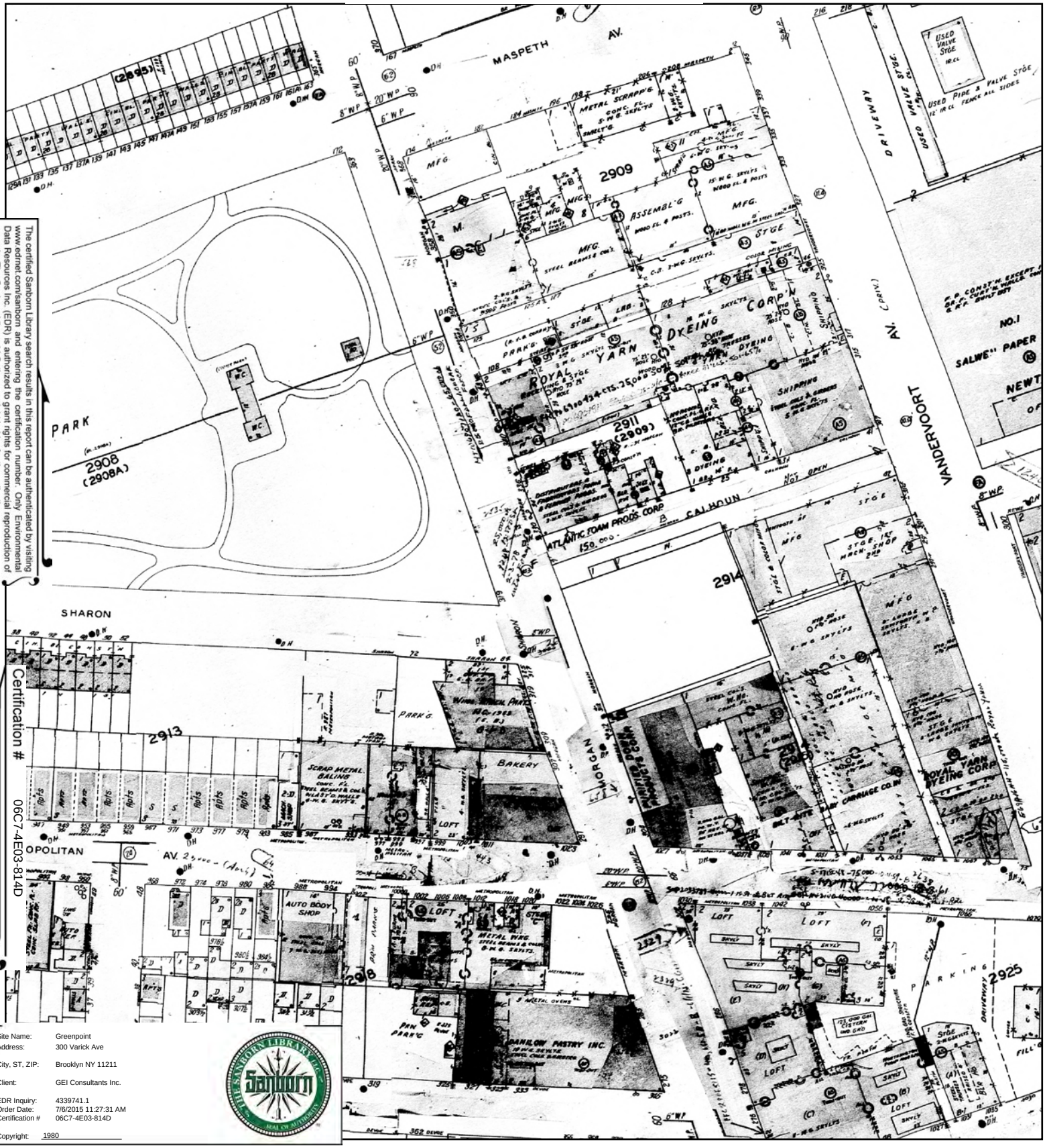
1980 Certified Sanborn Map



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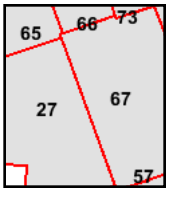

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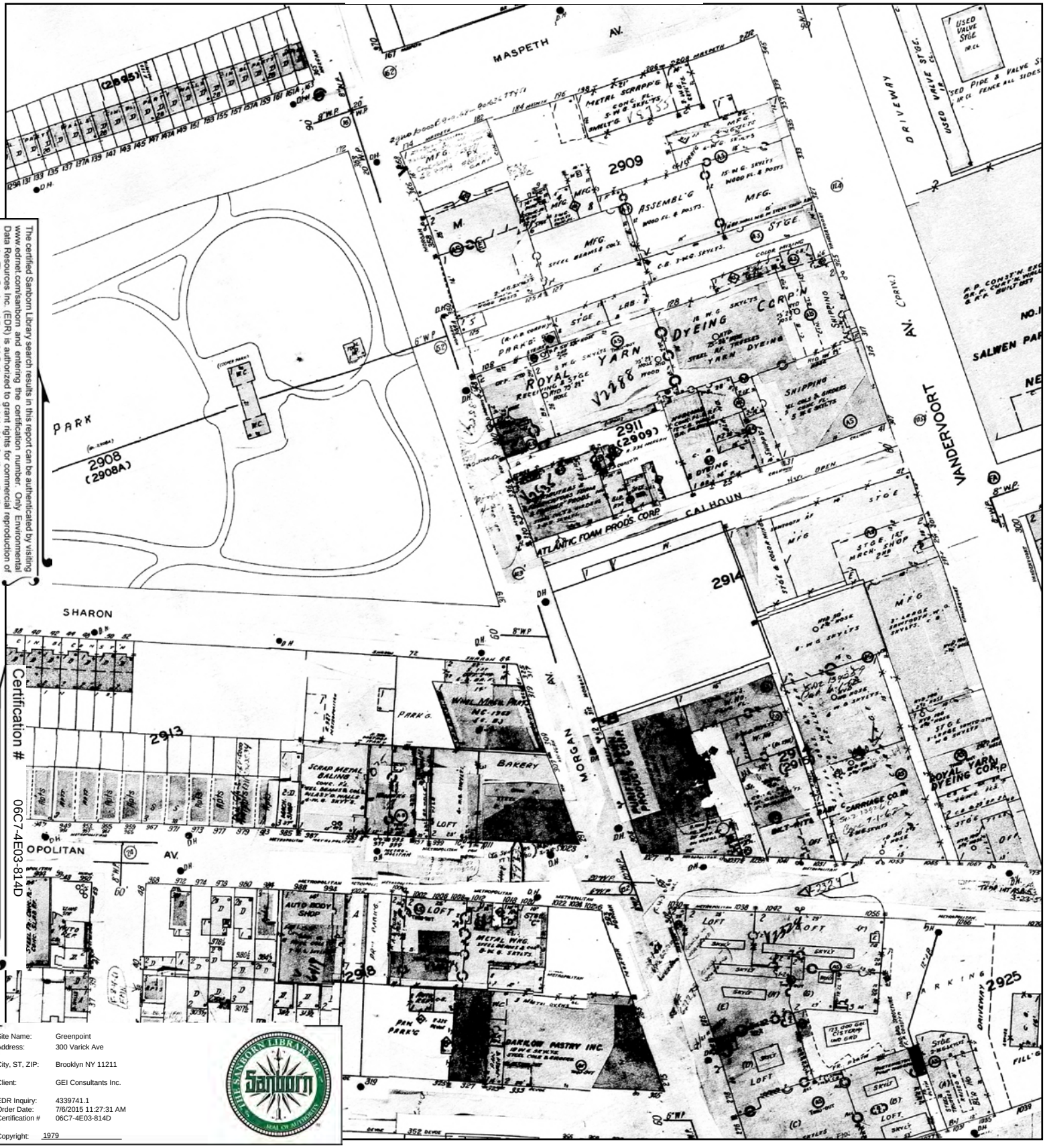
1979 Certified Sanborn Map



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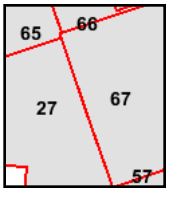

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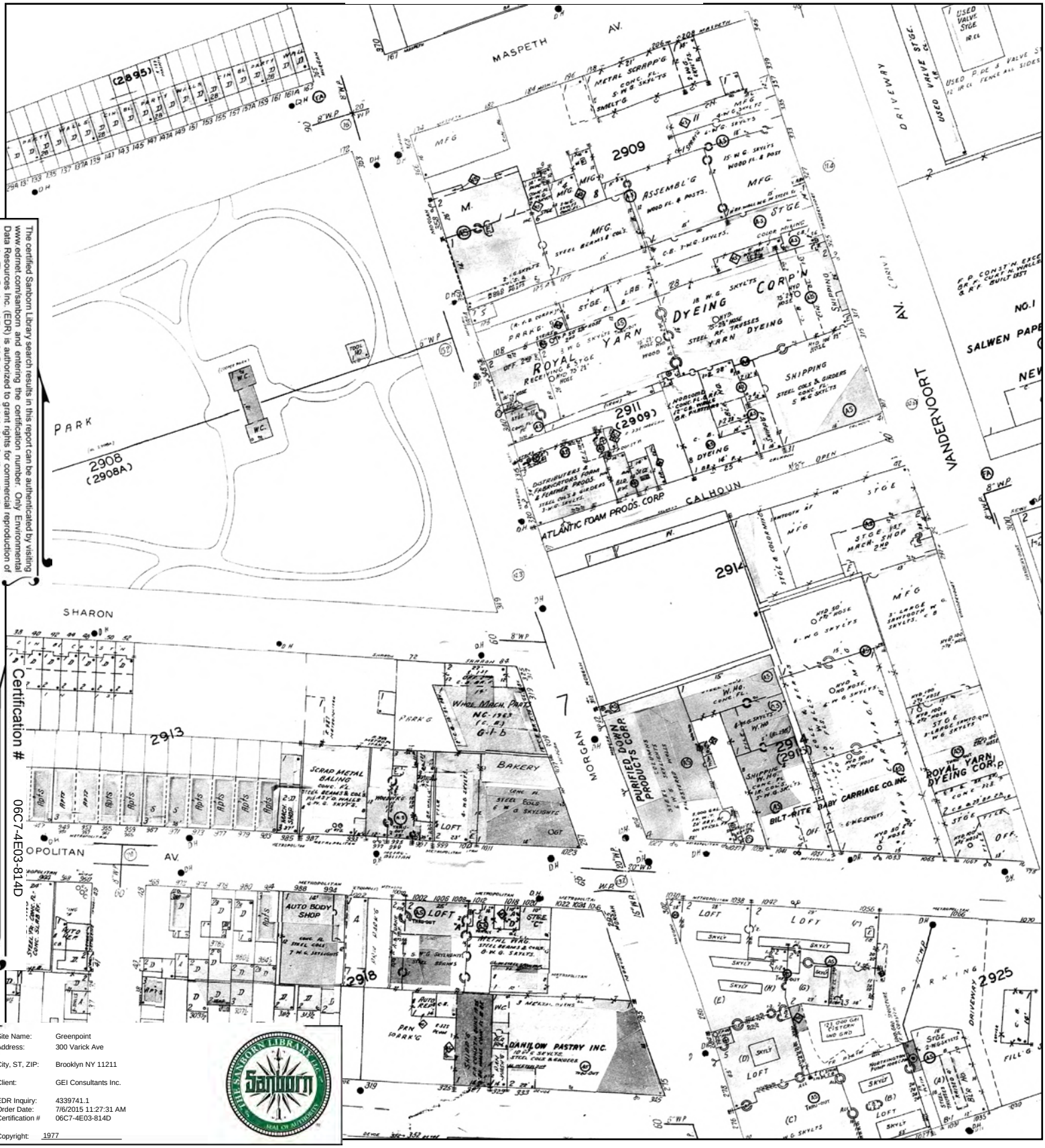
1977 Certified Sanborn Map



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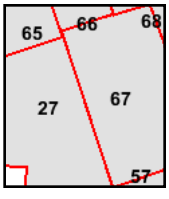

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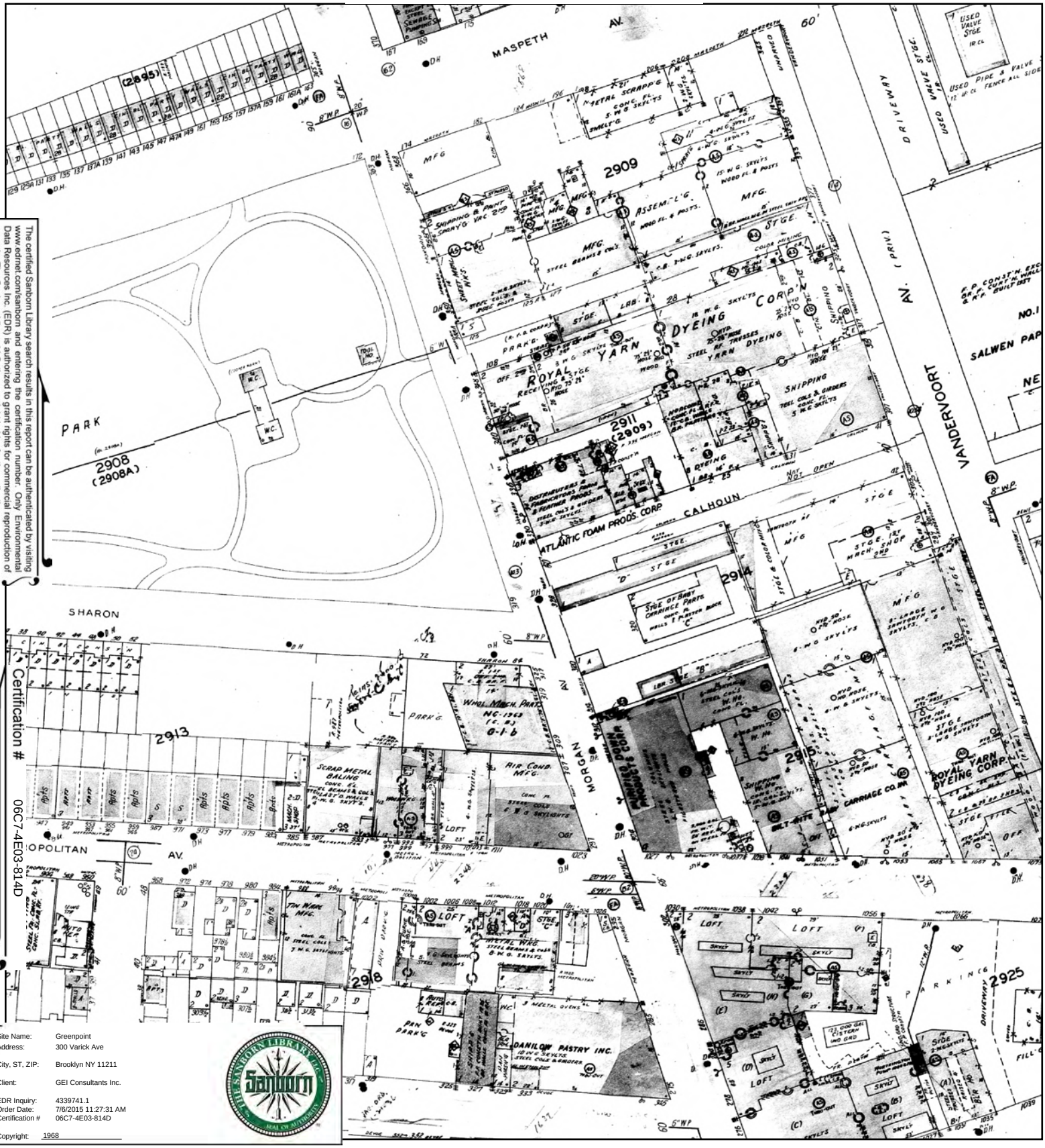
1968 Certified Sanborn Map



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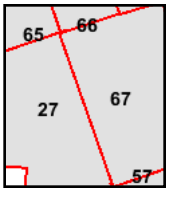

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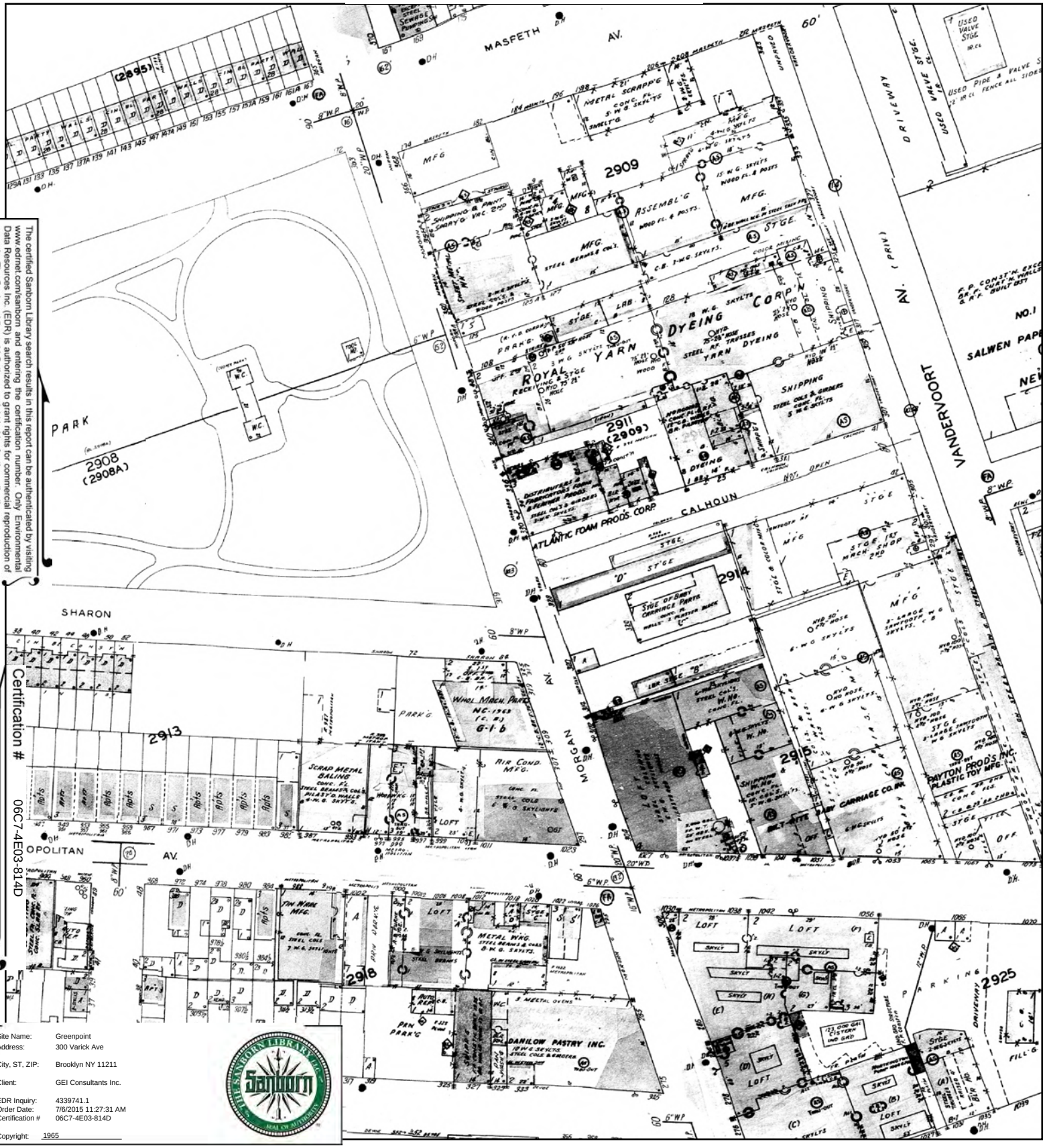
1965 Certified Sanborn Map



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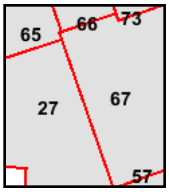

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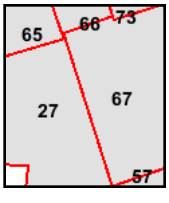

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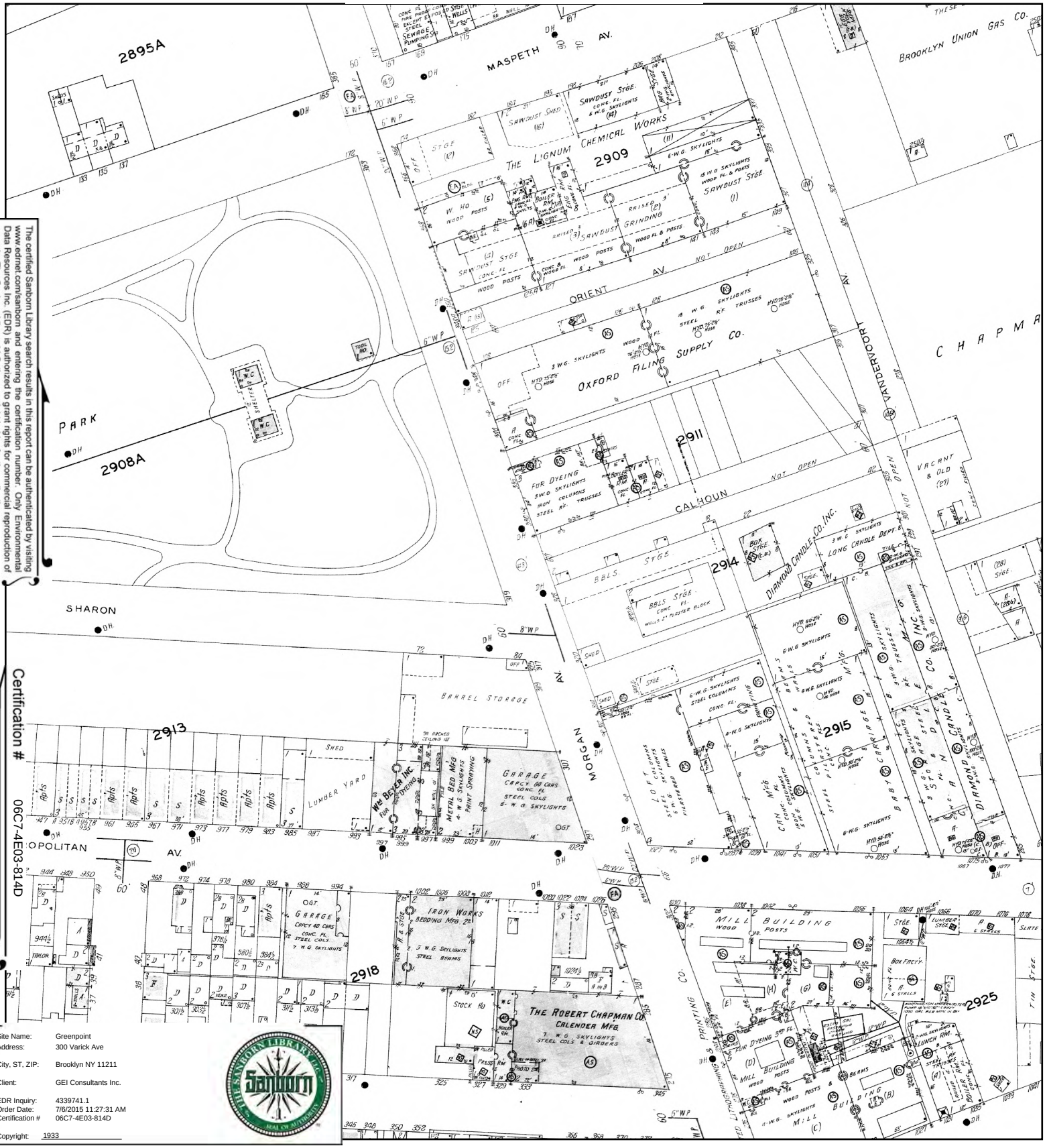
1933 Certified Sanborn Map



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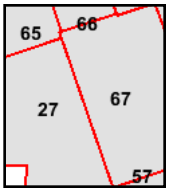

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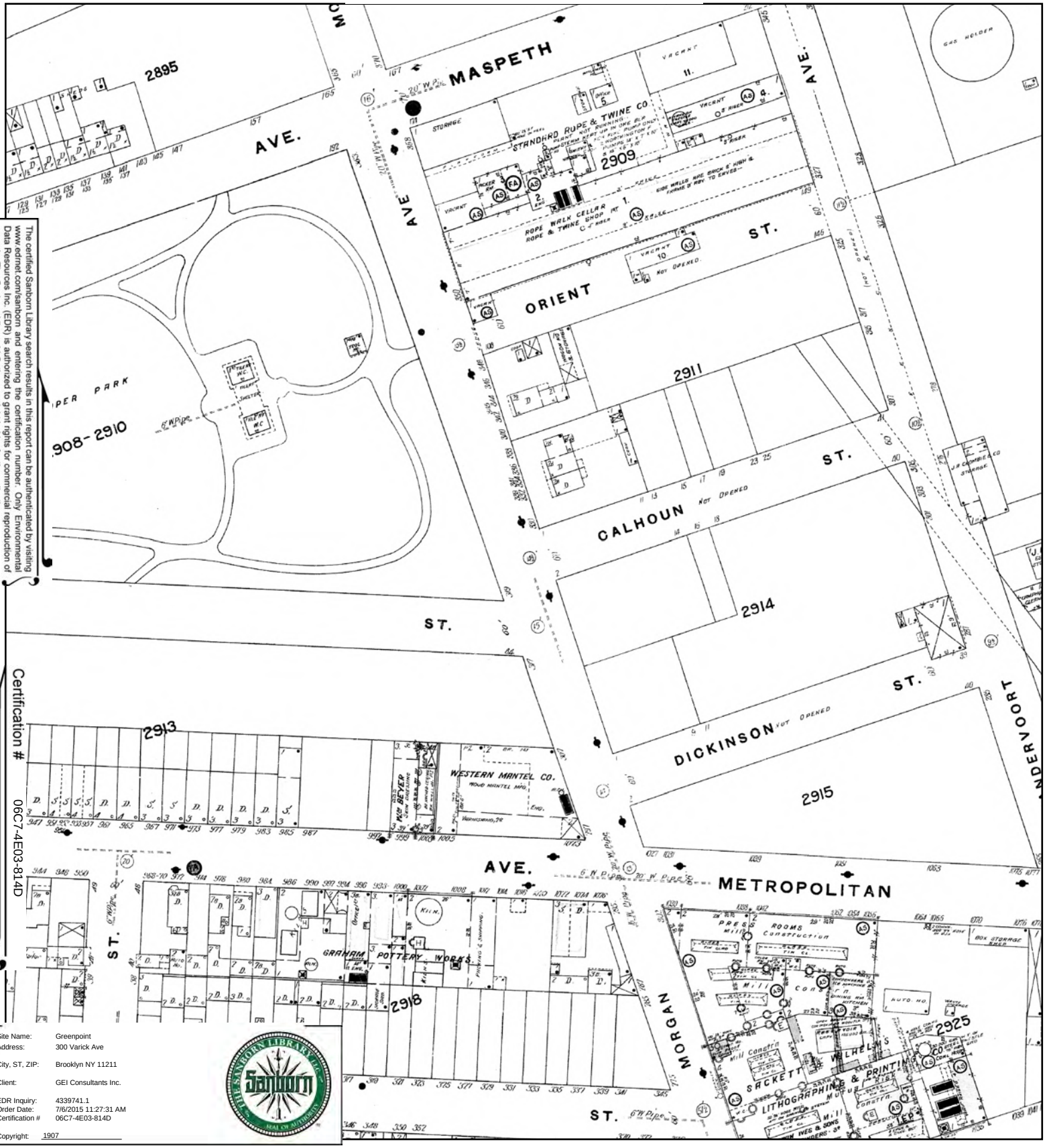
1907 Certified Sanborn Map



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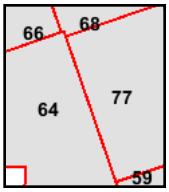

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1888 Certified Sanborn Map



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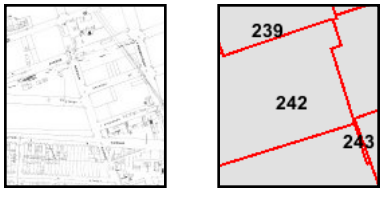

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GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by GEI Consultants Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Greenpoint
Address: 300 Varick Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
Certification # 06C7-4E03-814D

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 06C7-4E03-814D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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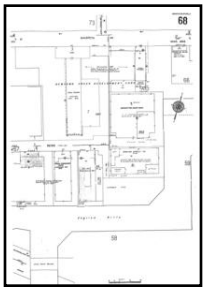

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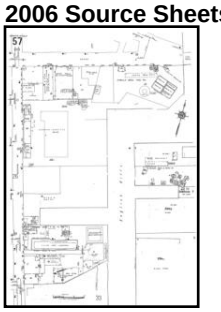
2006 Source Sheets



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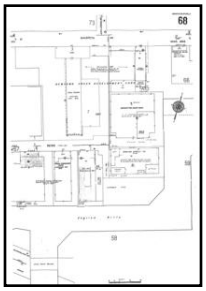

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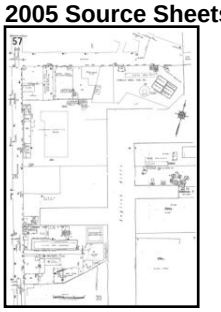

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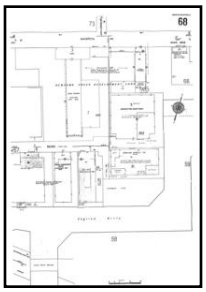

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2004 Source Sheets



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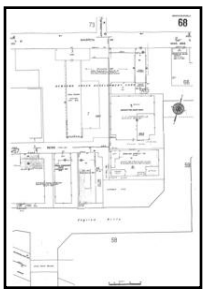

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2003 Source Sheets



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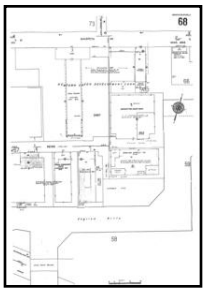

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2002 Source Sheets



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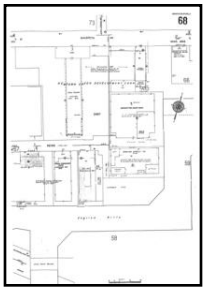

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2001 Source Sheets



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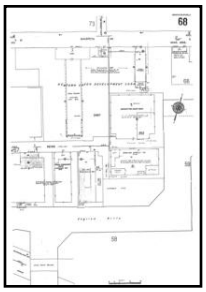

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1995 Source Sheets



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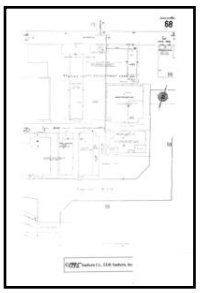

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1994 Source Sheets



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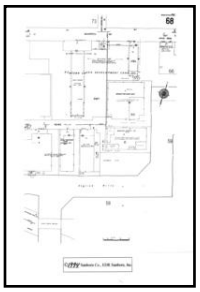

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1993 Source Sheets



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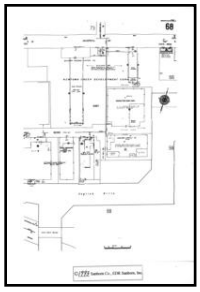

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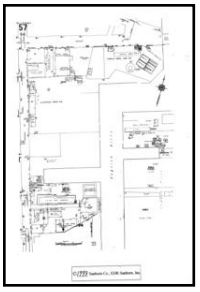

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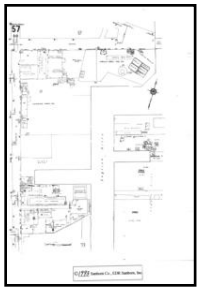

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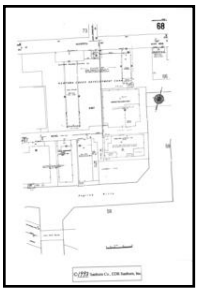

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1992 Source Sheets



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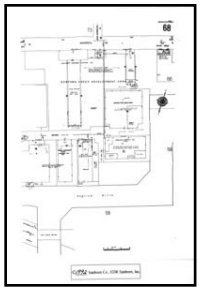

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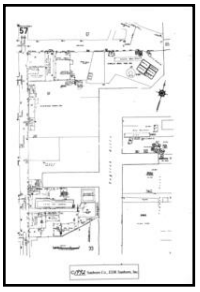

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1991 Source Sheets



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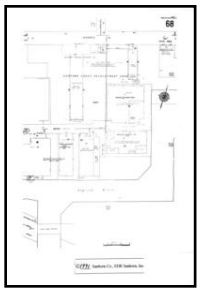

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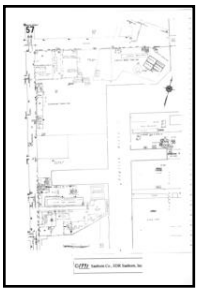

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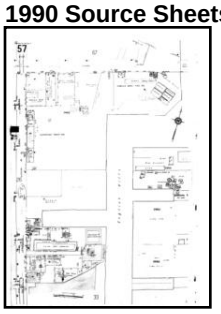

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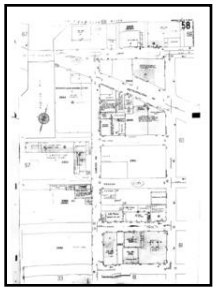

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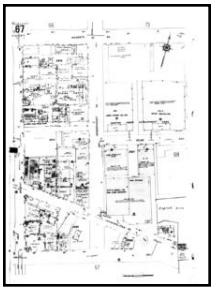

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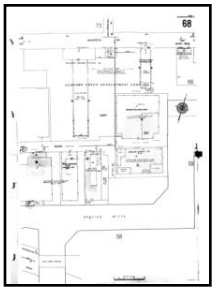

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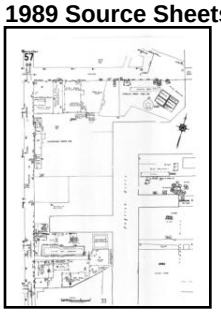

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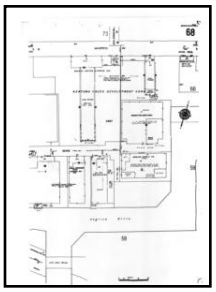

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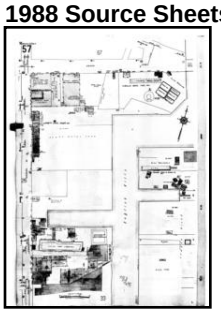

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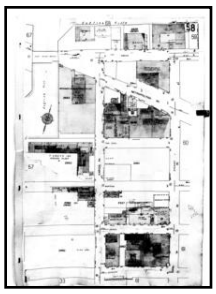

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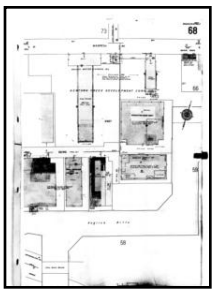

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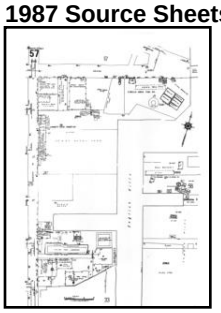

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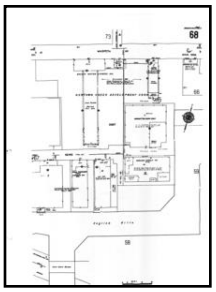

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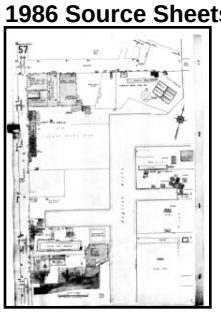

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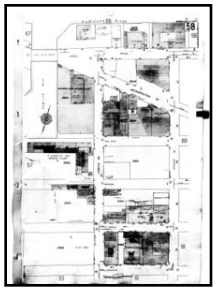

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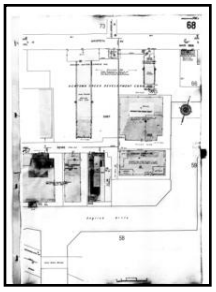

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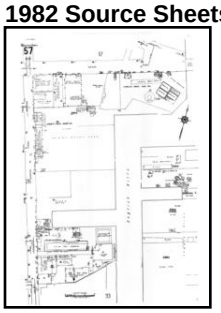

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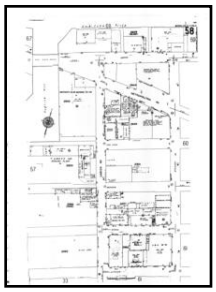

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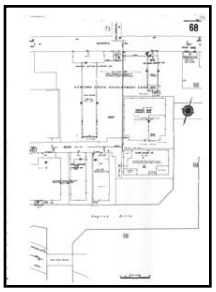

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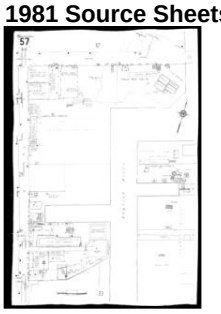

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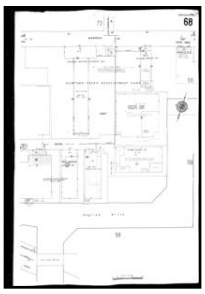

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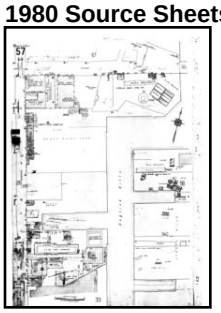

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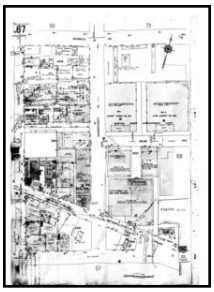

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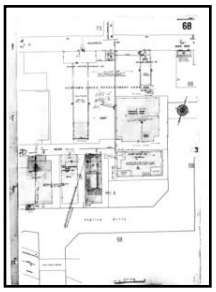

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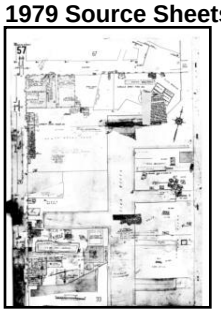

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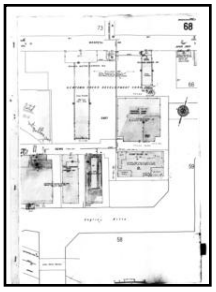

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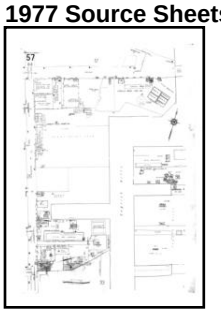

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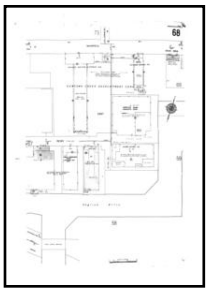

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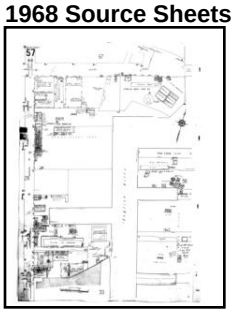

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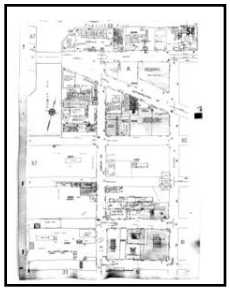

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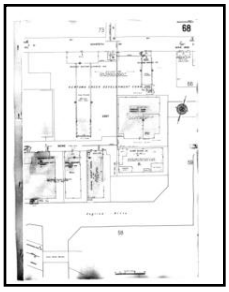

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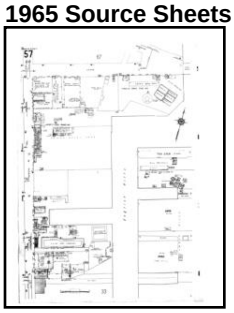
1965 Source Sheets



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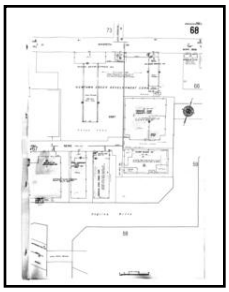

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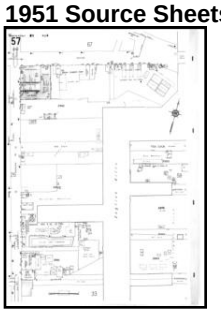

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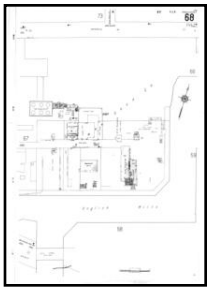

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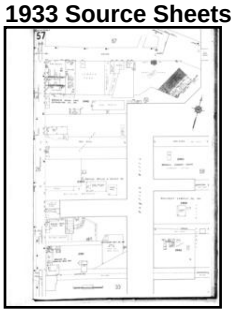
1933 Source Sheets



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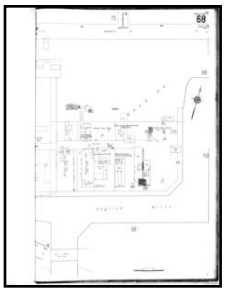

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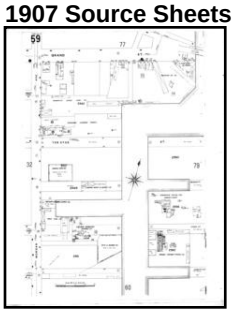
1907 Source Sheets



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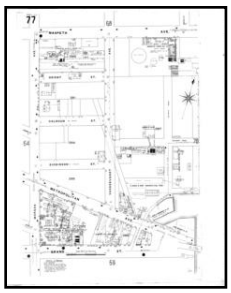

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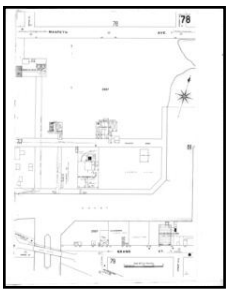

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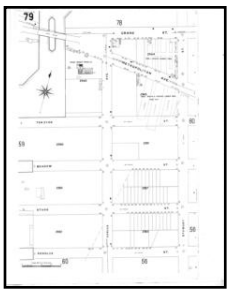

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1888 Source Sheets



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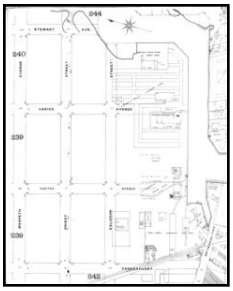

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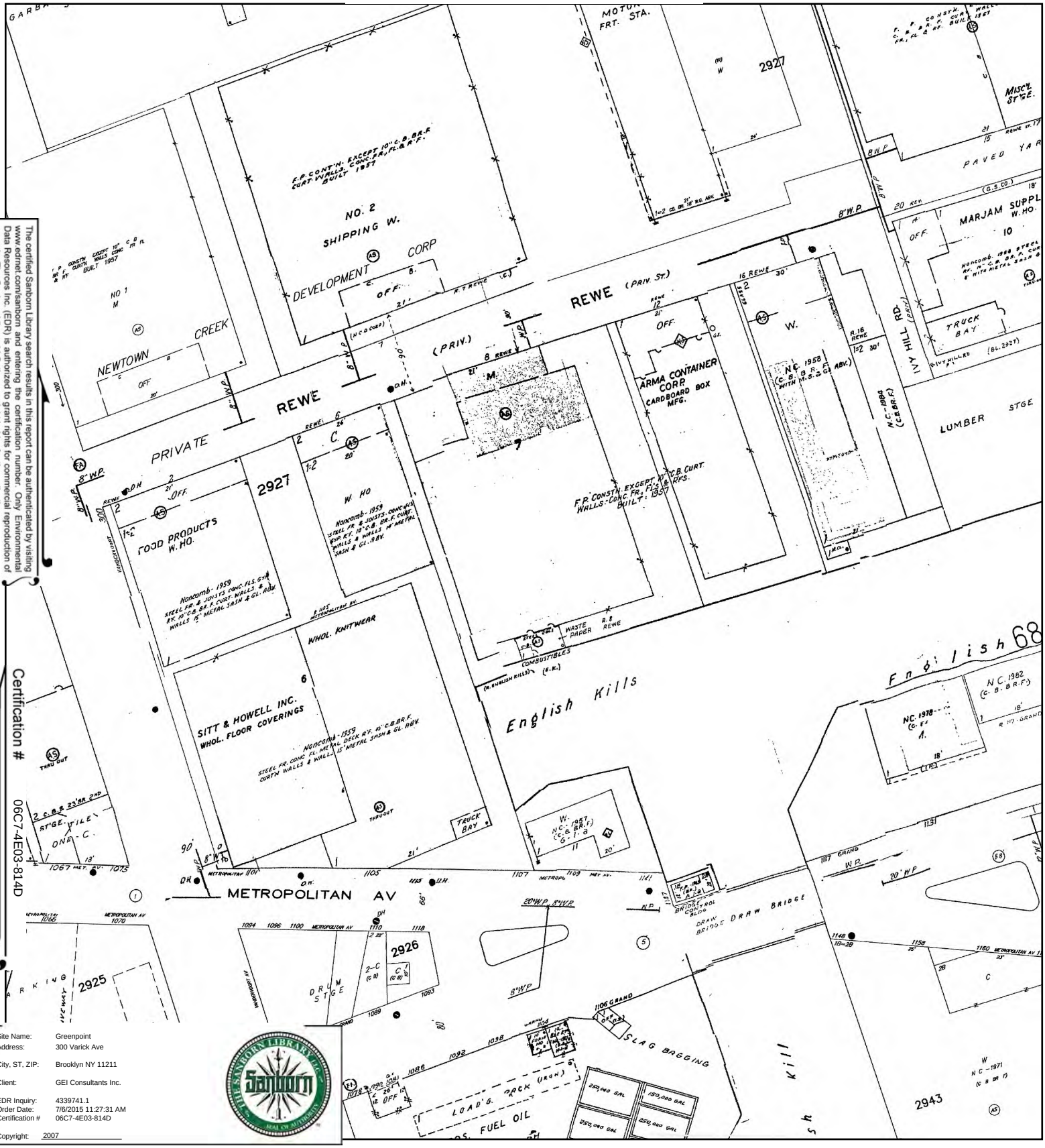
2007 Certified Sanborn Map



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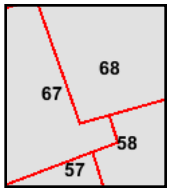

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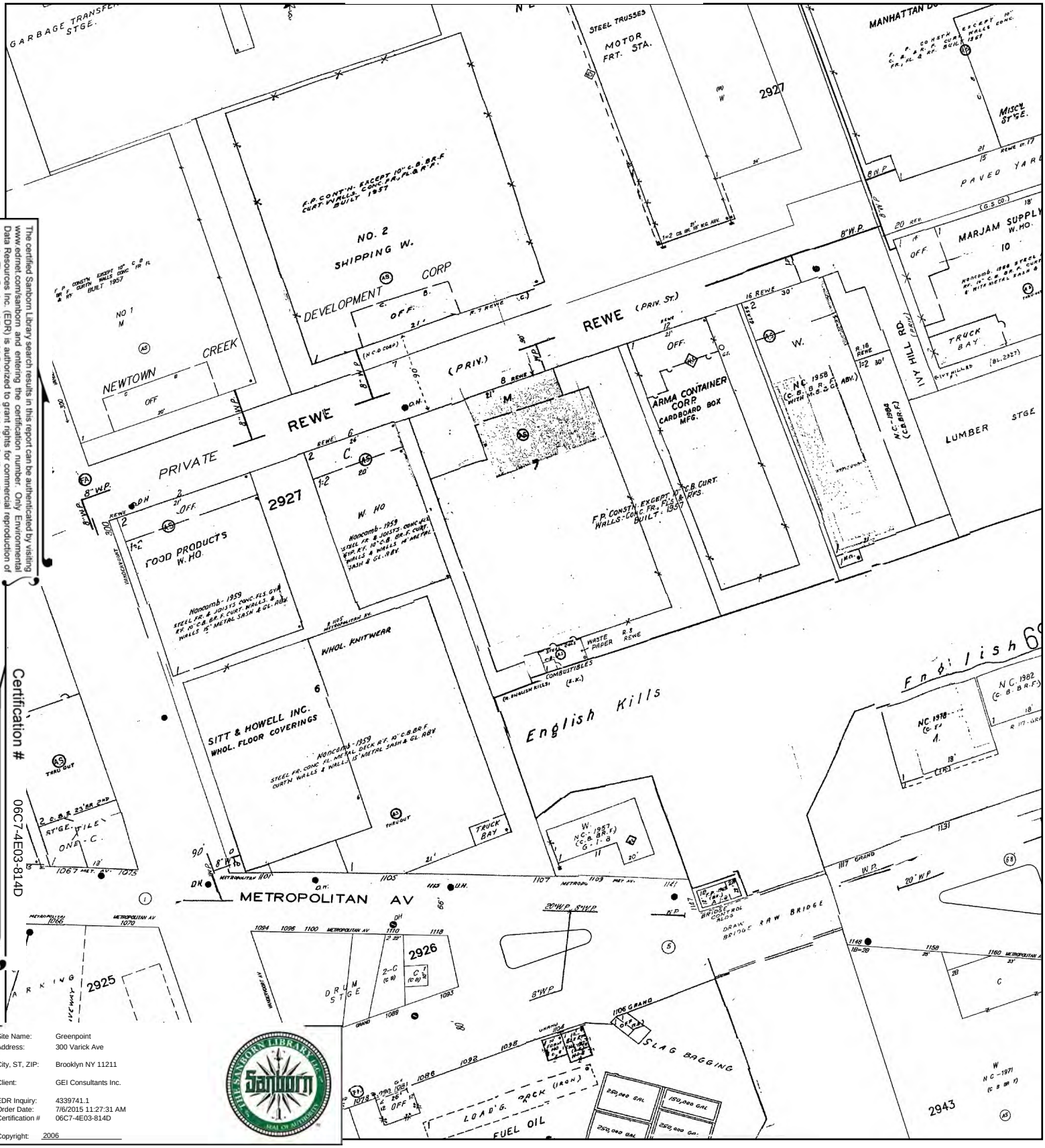
2006 Certified Sanborn Map



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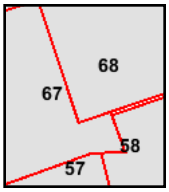

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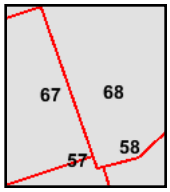

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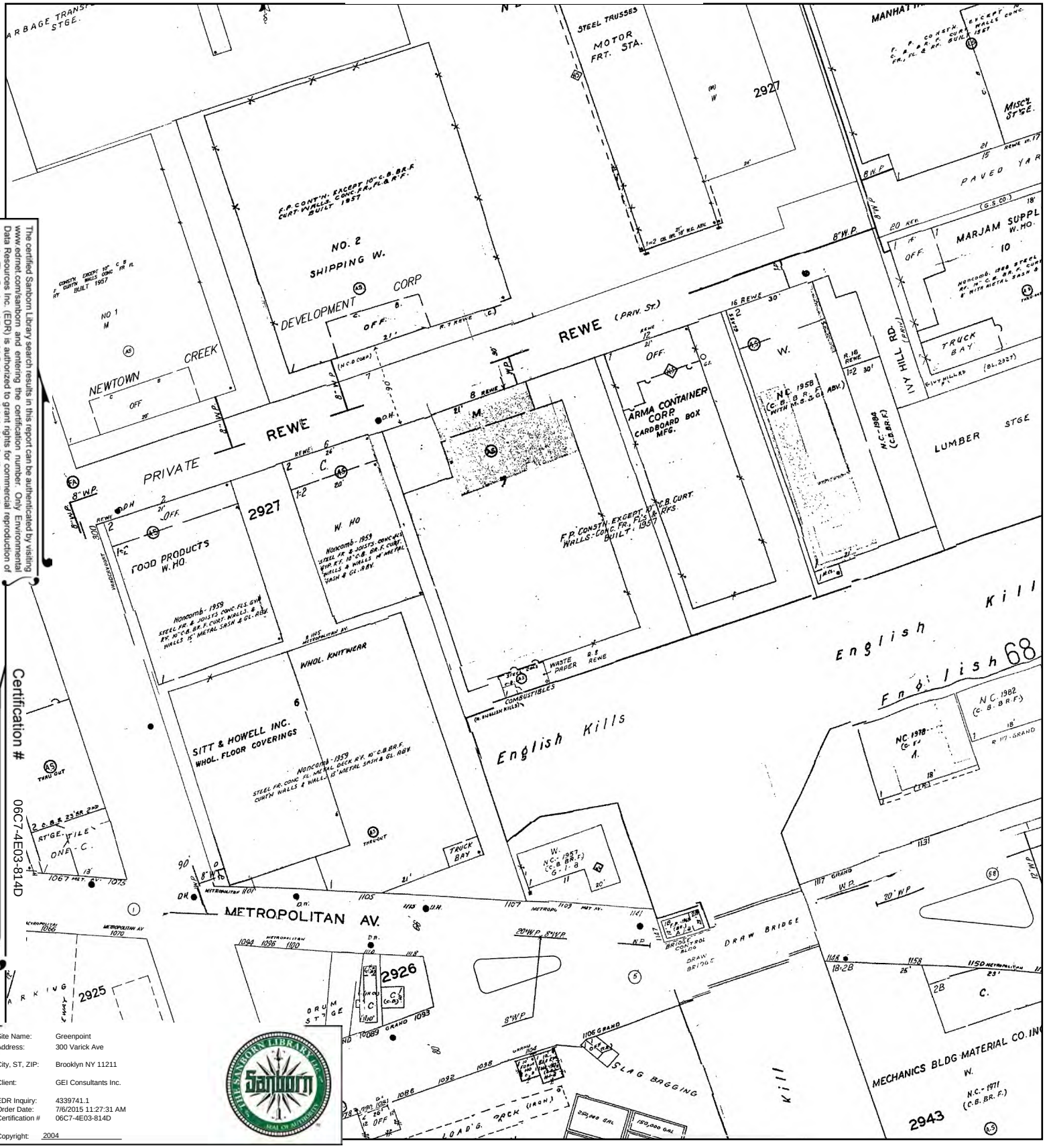
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METROPOLITAN AV.
NEWTOWN CREEK
PRIVATE
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NO 1
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2925
2943
FOOD PRODUCTS W. HO
W. HO
WHOL. KNITWEAR
SITT & HOWELL INC.
WHOL. FLOOR COVERINGS
ARMA CONTAINER CORP
CARDBOARD BOX MFG.
MOTOR FRT. STA.
STEEL TRUSSES
MARJAM SUPPL W. HO.
TRUCK BAY
LUMBER STGE
IVY HILL RD
English Kills
DRAW BRIDGE
SLAG BAGGING
MECHANICS BLDG MATERIAL CO. INC
PAVED YARD
MISCL STGE.
ARBAGE TRANSF STGE.
F.P. CONST'N. EXCEPT 10" C.B. BR.F. CURT. WALLS. CONC. FR., FL. & R.F. BUILT 1957
NC 1958 (C.B. BR.F.)
NC 1982 (C.B. BR.F.)
NC 1978 (C.F.)
NC 1959 (C.B. BR.F.)
NC 1971 (C.B. BR.F.)
NC 1984 (C.B. BR.F.)
WASTE PAPER
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TRUCK BAY
THRU OUT
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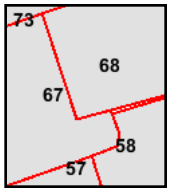

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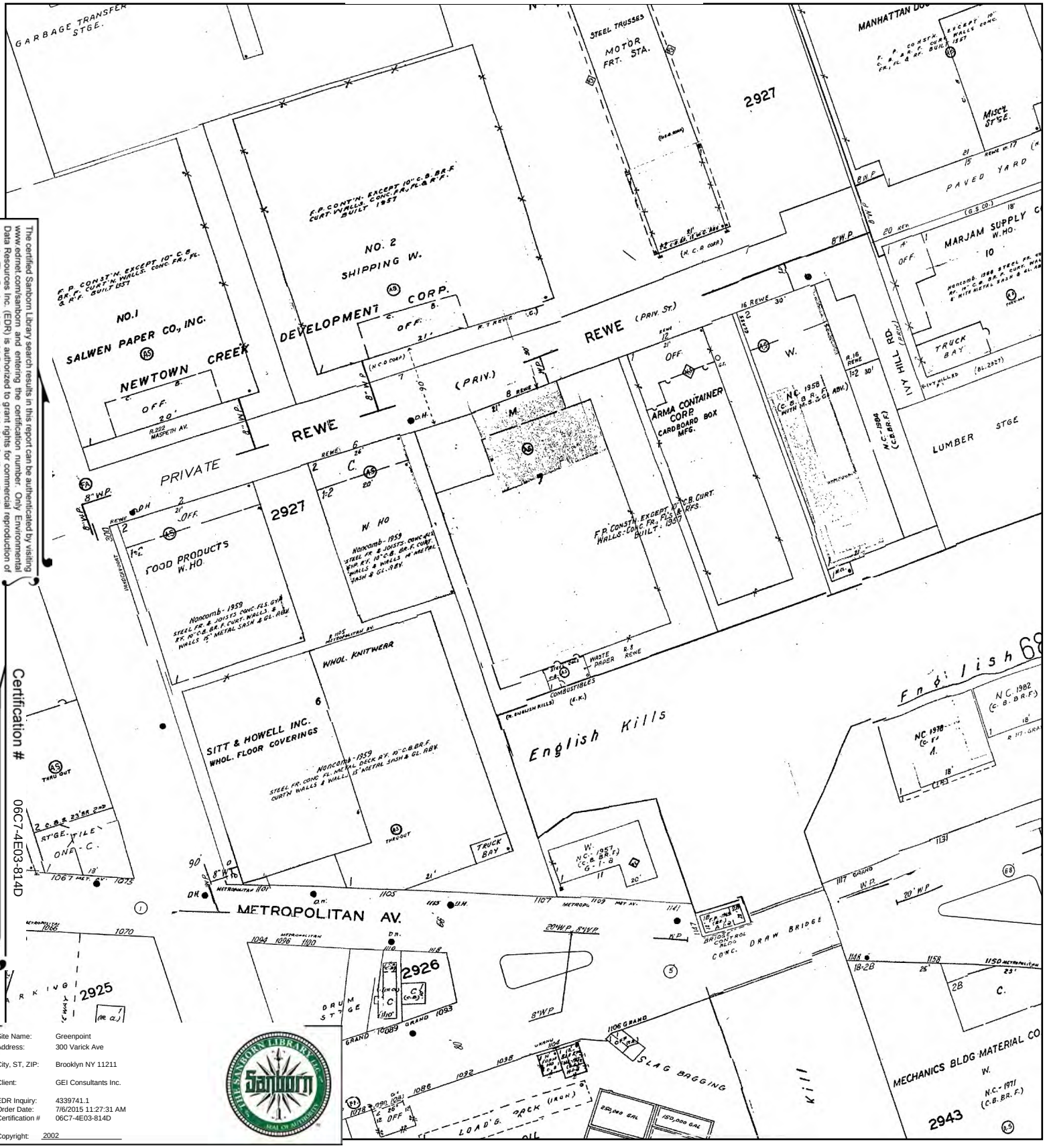

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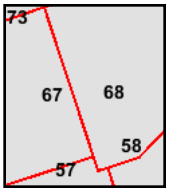

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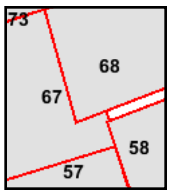

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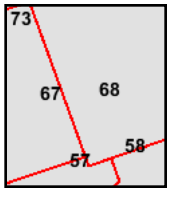

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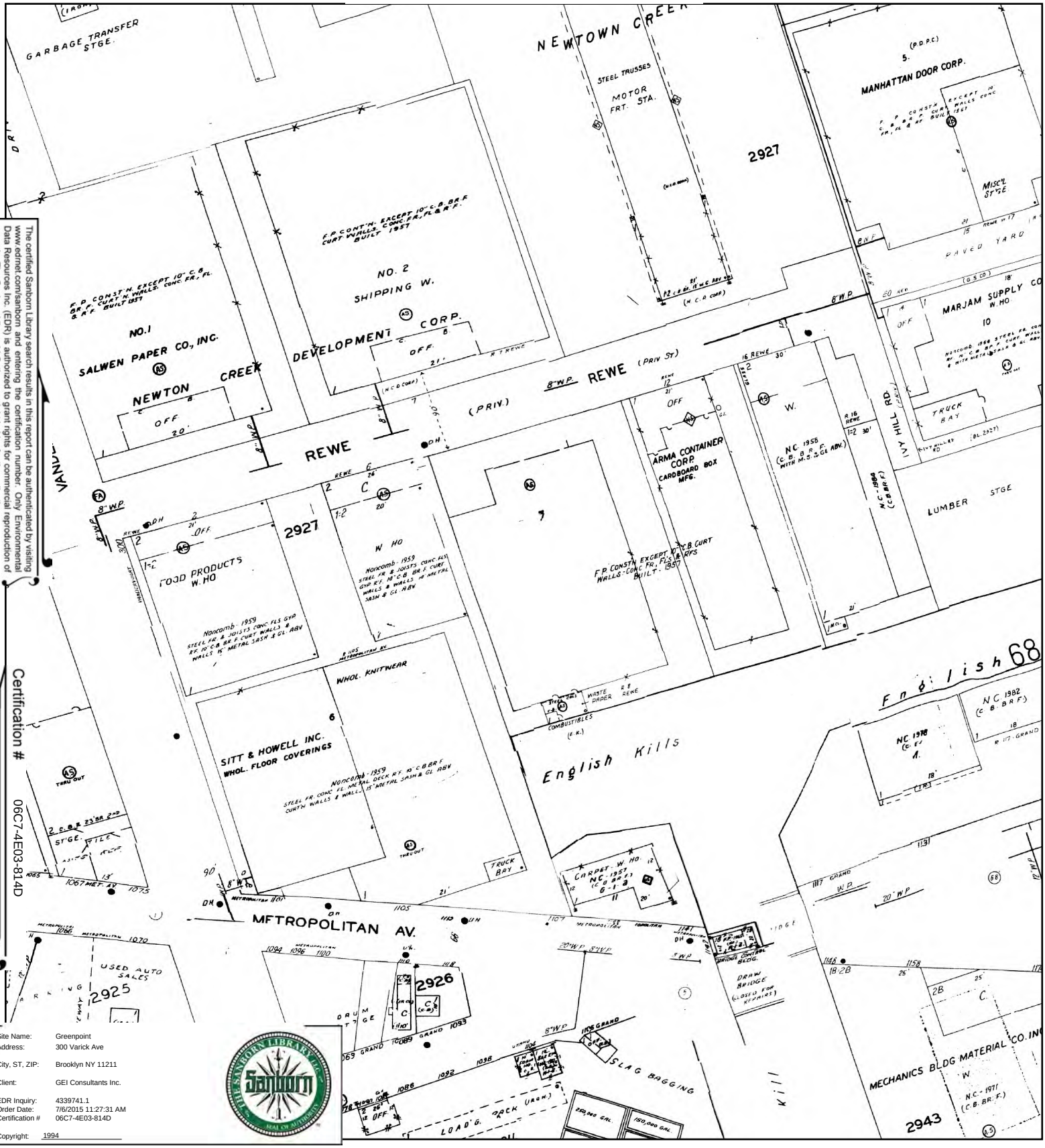
1994 Certified Sanborn Map



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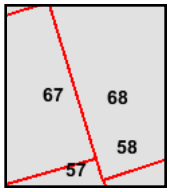

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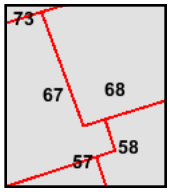

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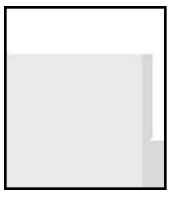

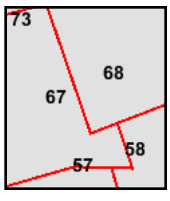

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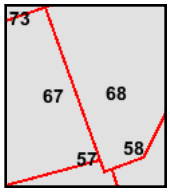

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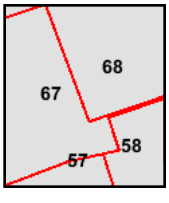

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Volume 9, Sheet 68

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1989 Certified Sanborn Map



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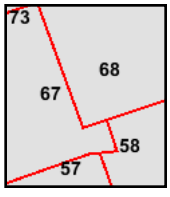

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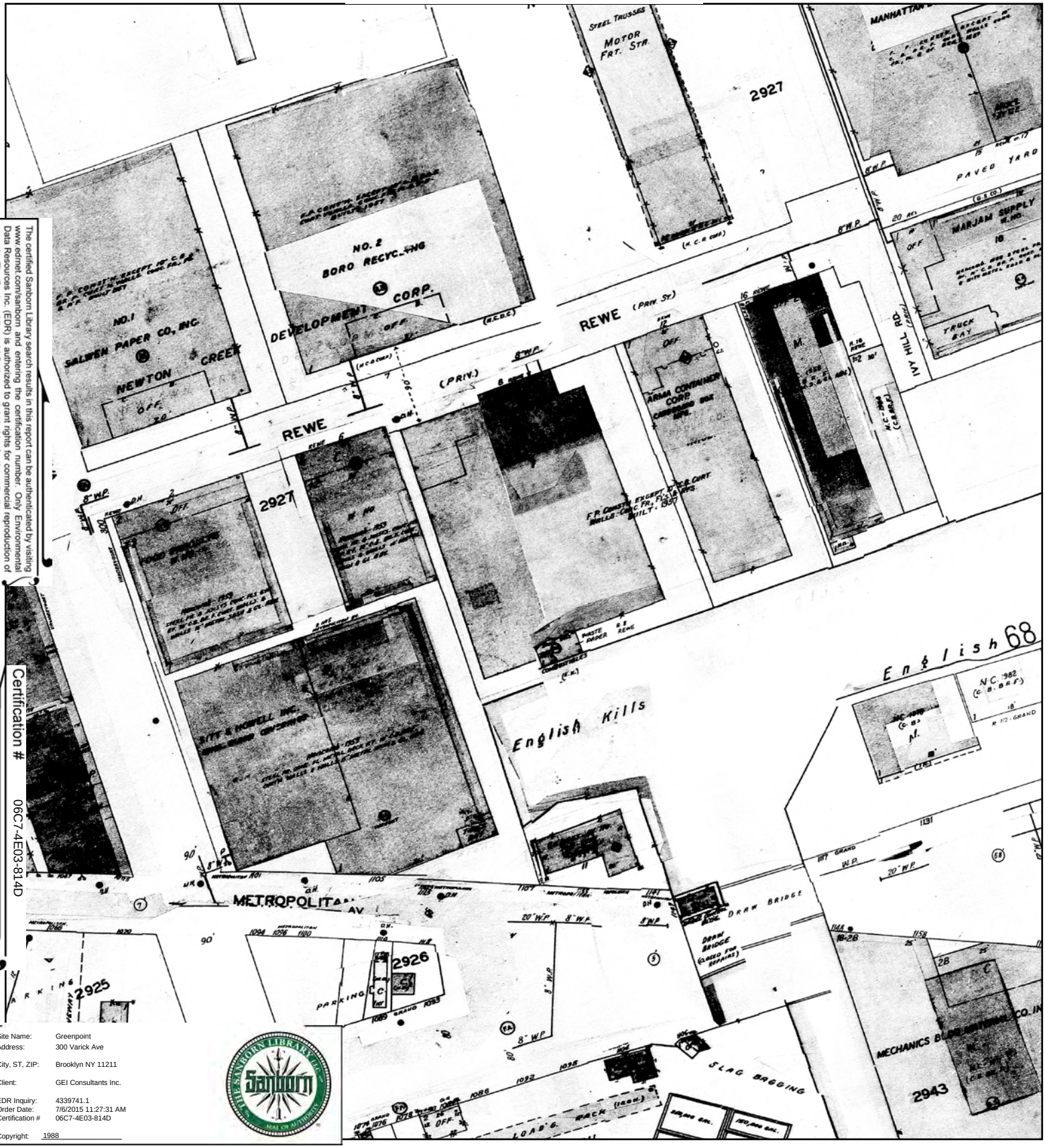

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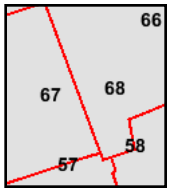

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Volume 9, Sheet 68

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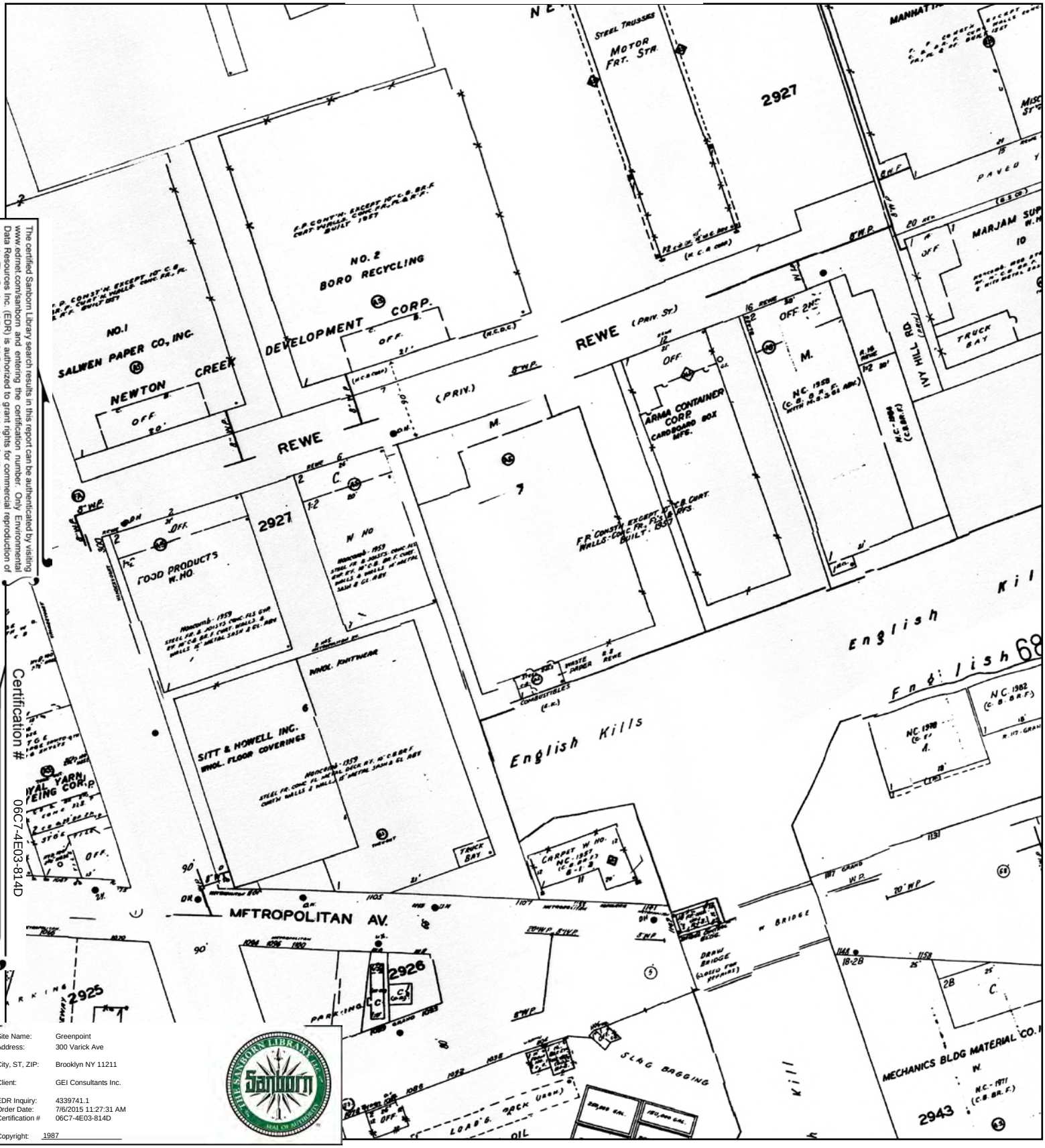
1987 Certified Sanborn Map



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Copyright:	1987

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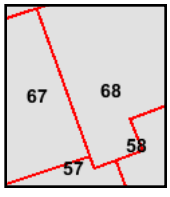

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Volume 9, Sheet 67
Volume 9, Sheet 68

0 Feet 165 330 660

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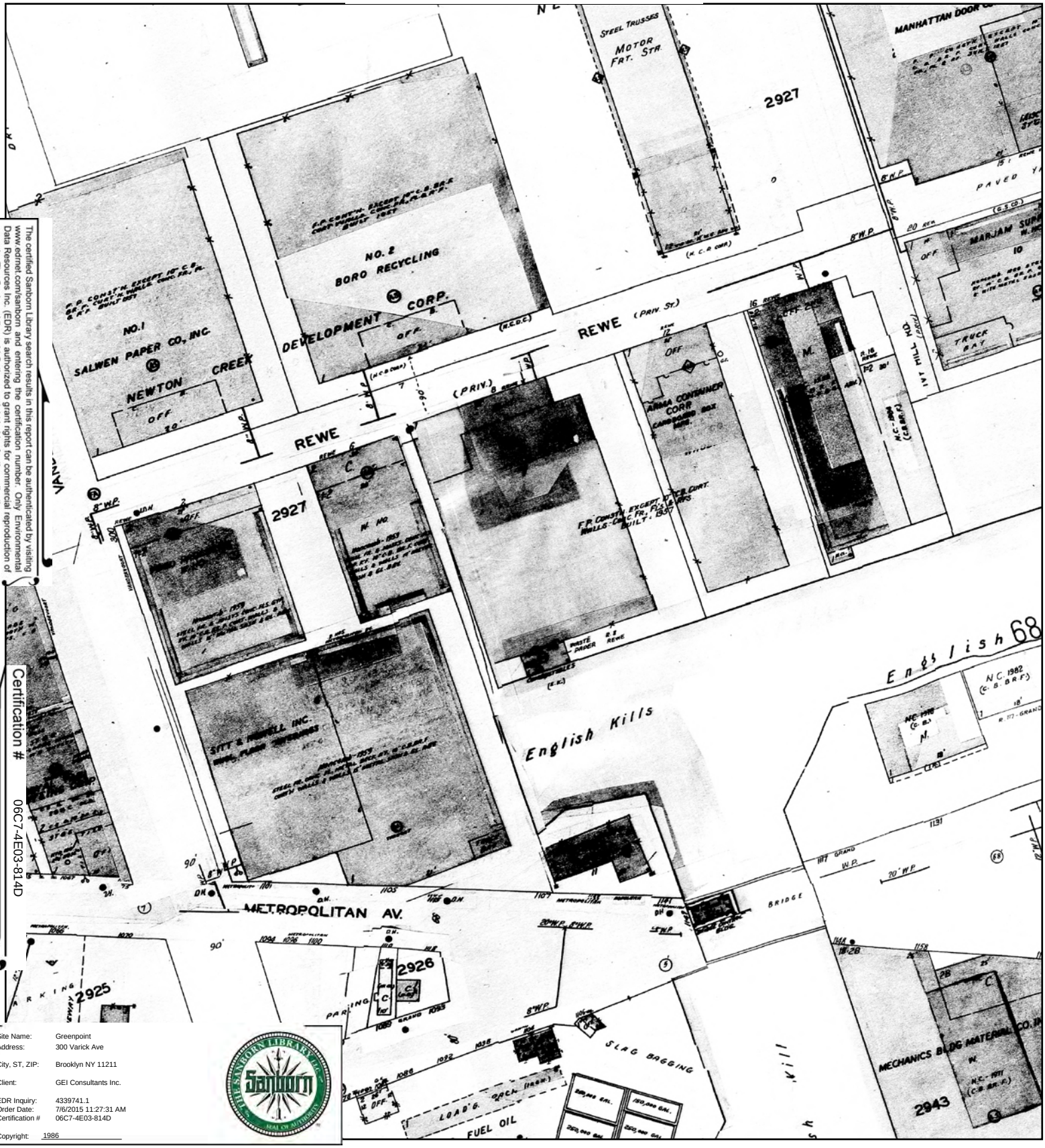
1986 Certified Sanborn Map



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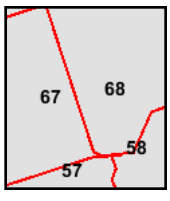

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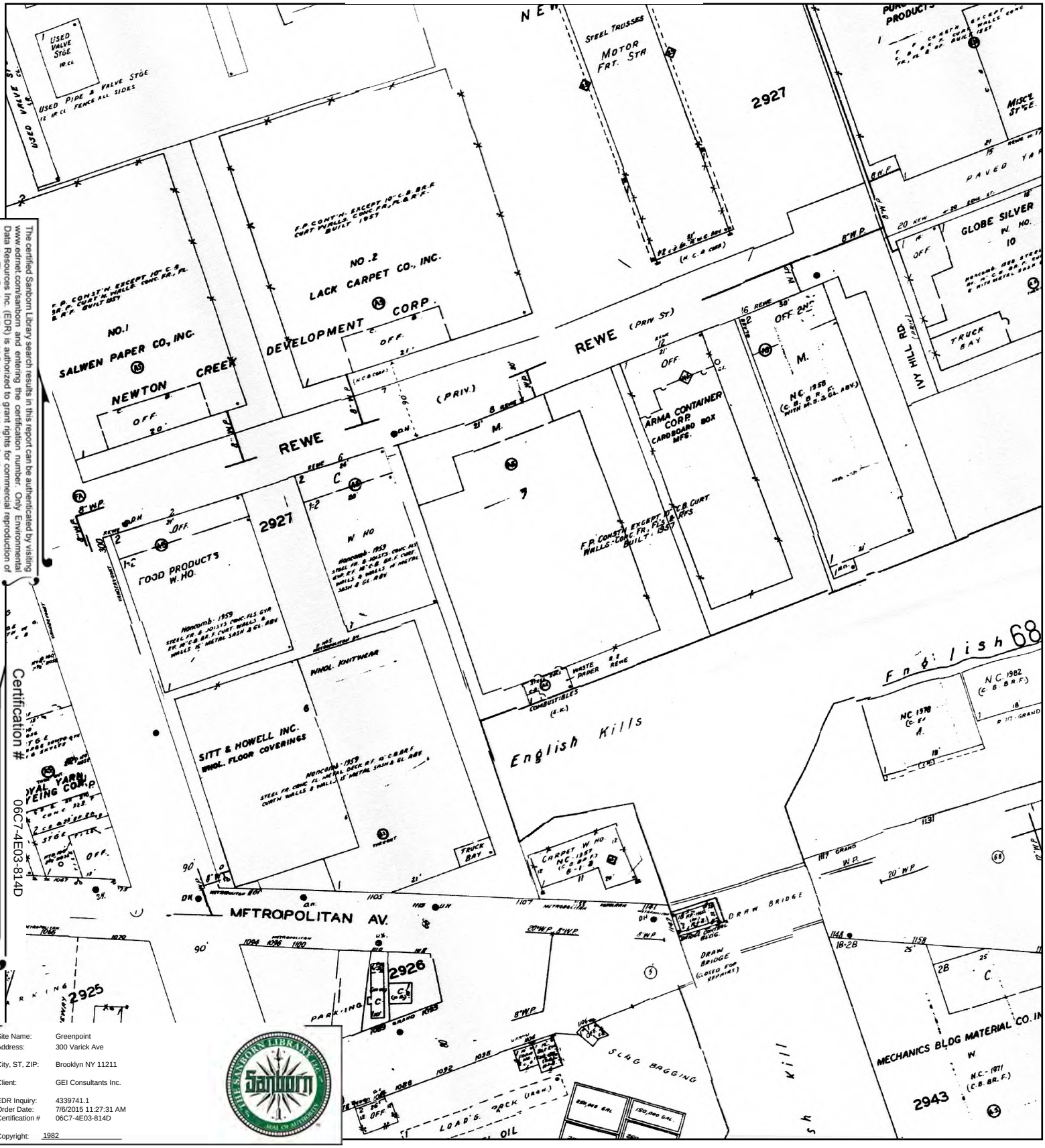
1982 Certified Sanborn Map



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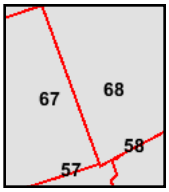

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1981 Certified Sanborn Map



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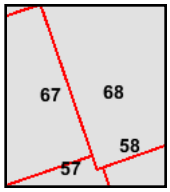

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1980 Certified Sanborn Map



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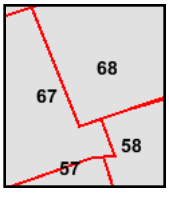

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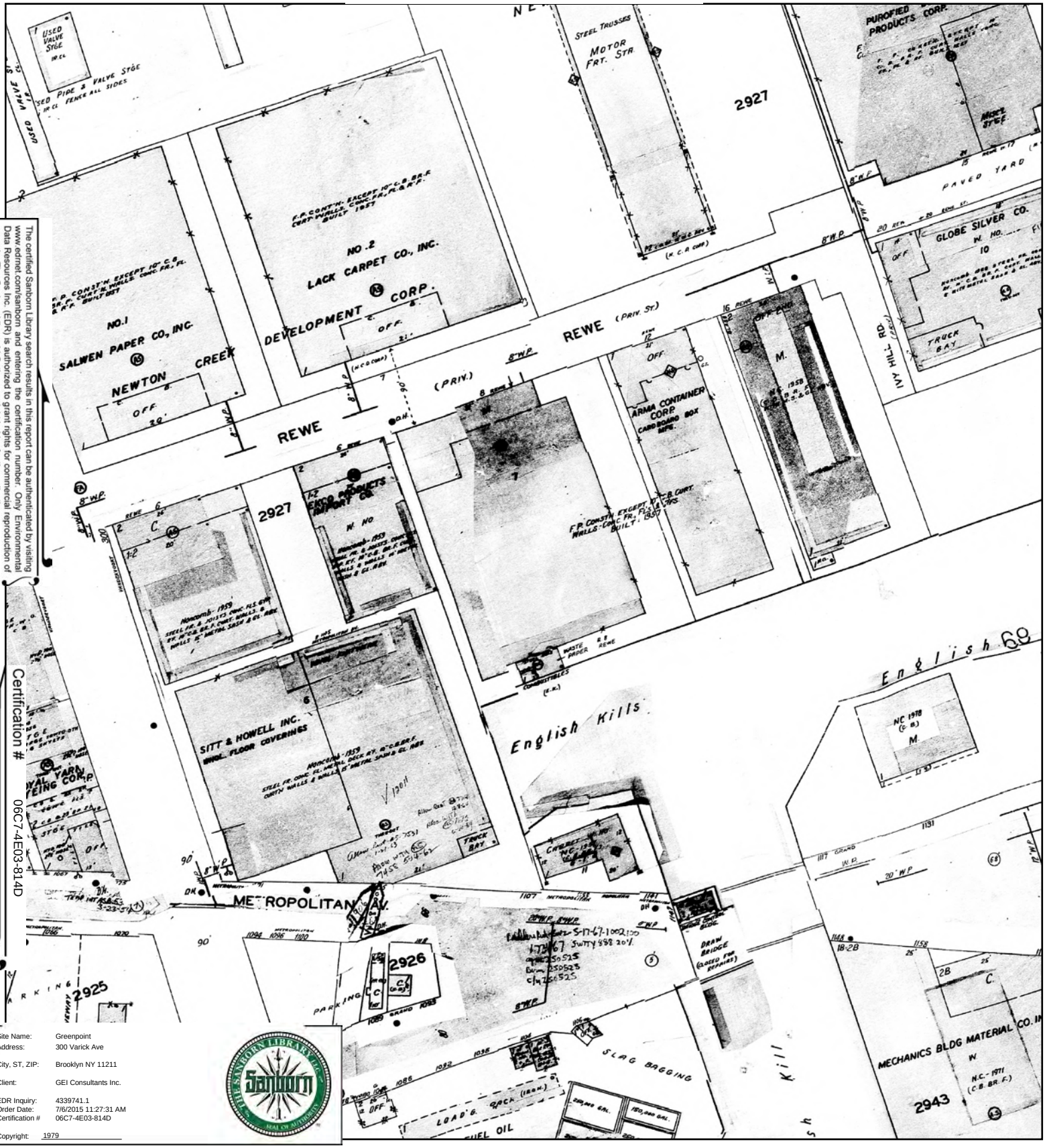
1979 Certified Sanborn Map



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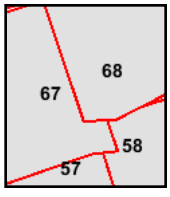

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1977 Certified Sanborn Map



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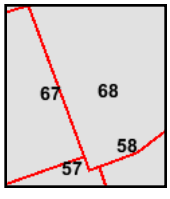

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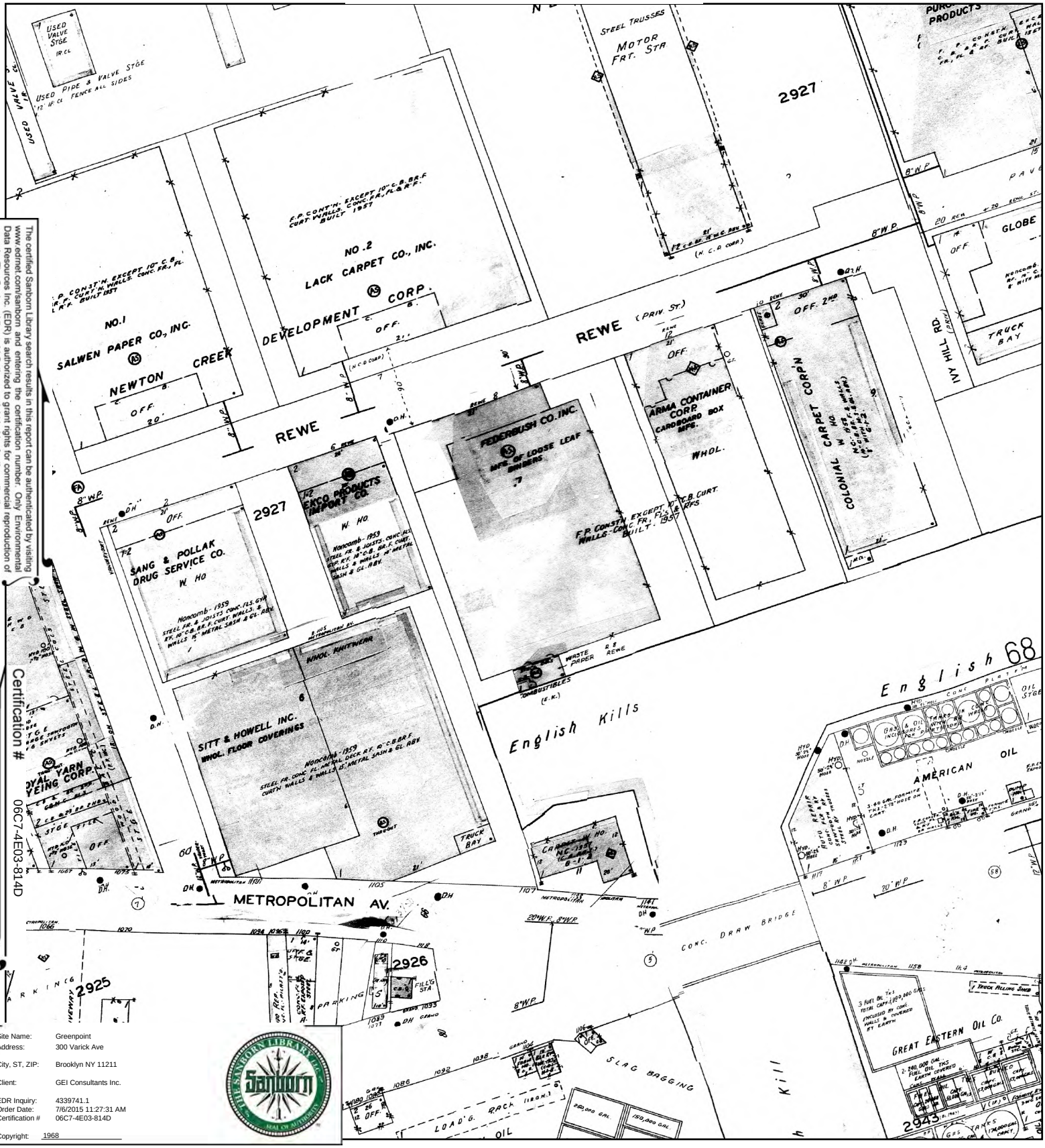
1968 Certified Sanborn Map



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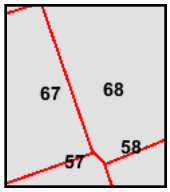

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1965 Certified Sanborn Map



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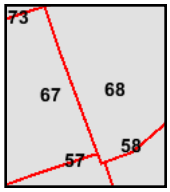

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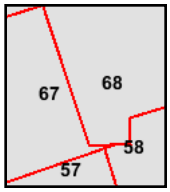

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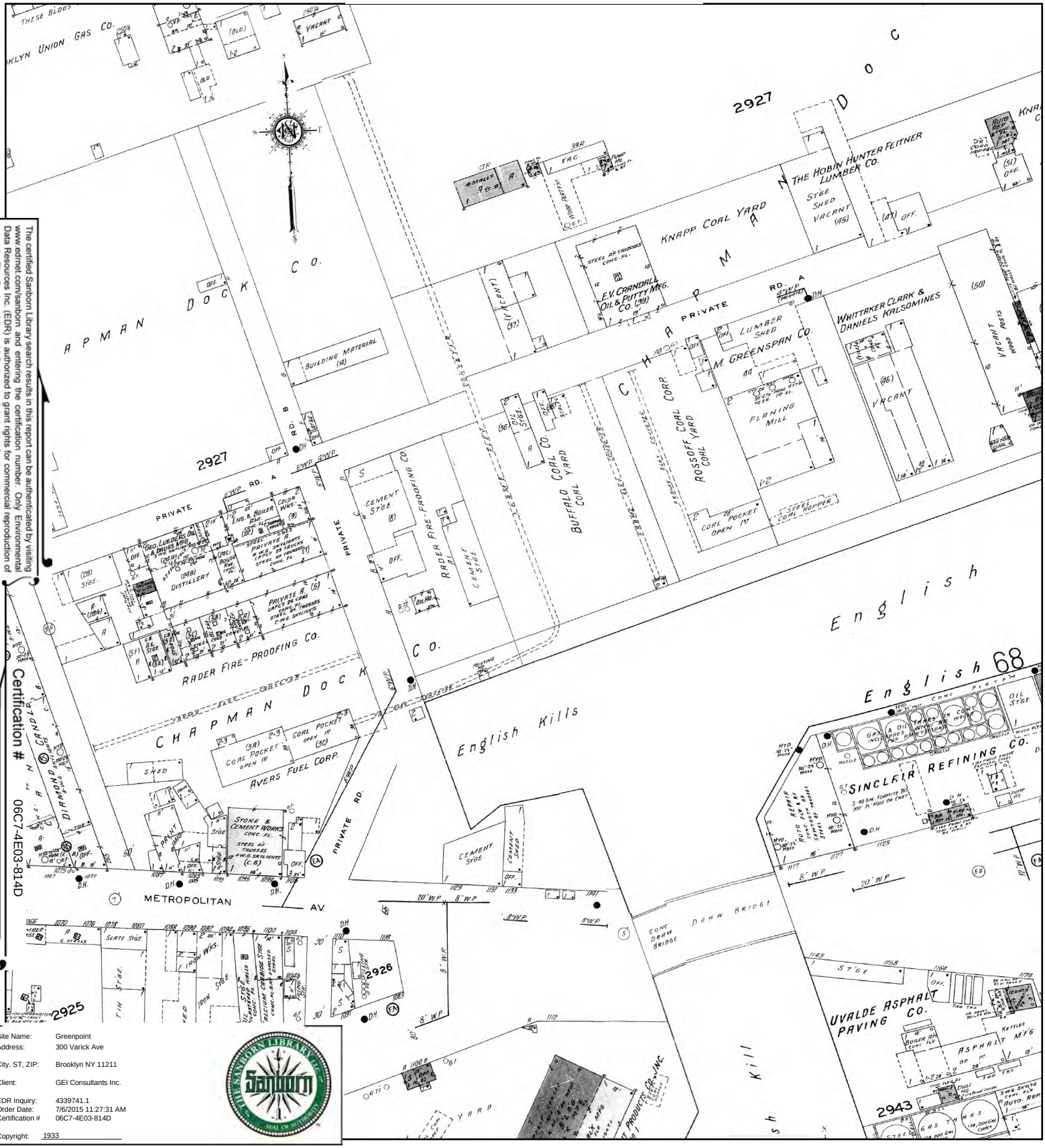
1933 Certified Sanborn Map



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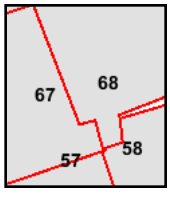

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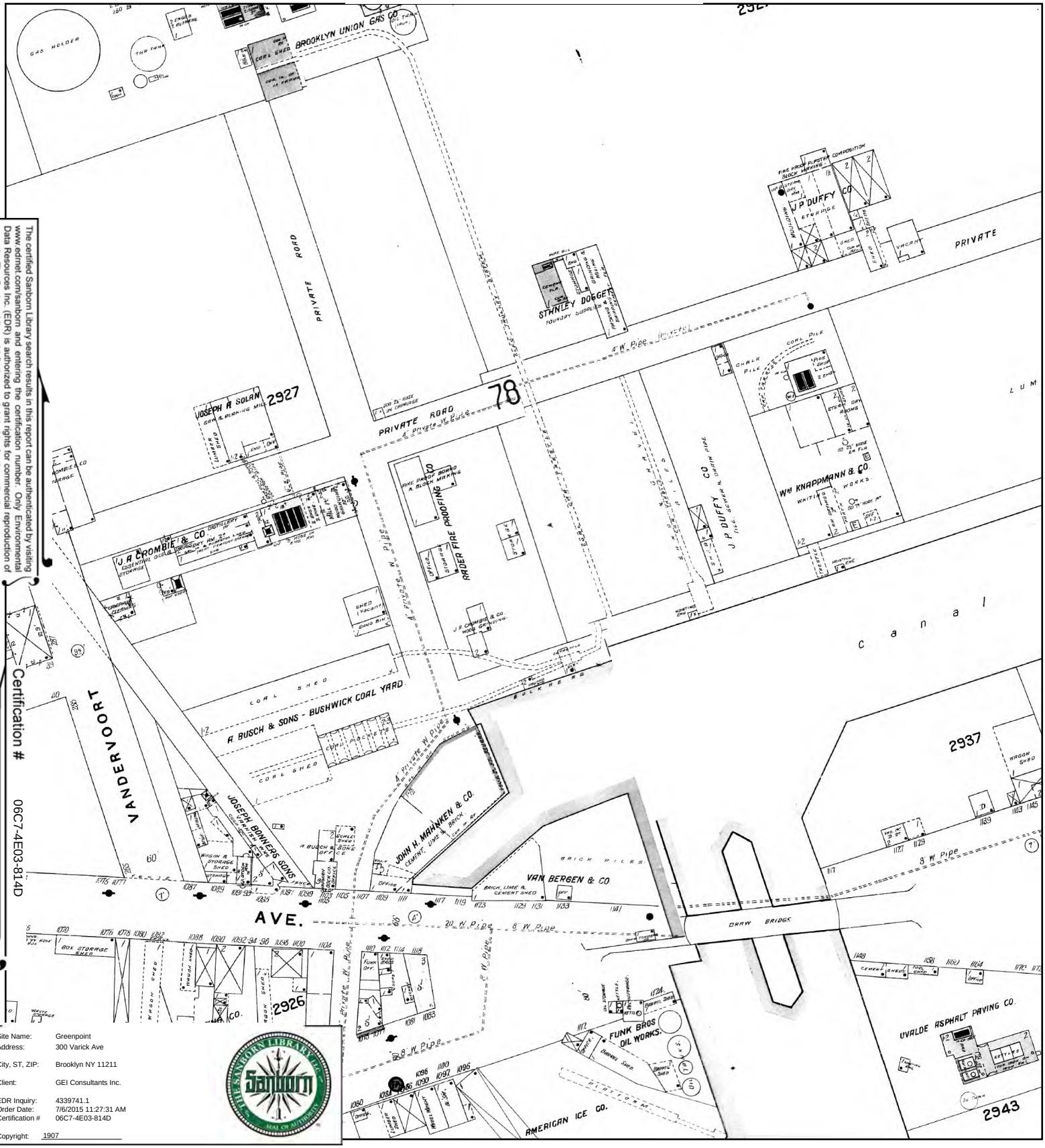
1907 Certified Sanborn Map



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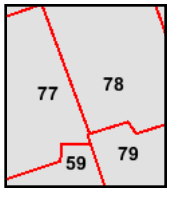

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1888 Certified Sanborn Map



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Certification #	06C7-4E03-814D
Copyright:	1888

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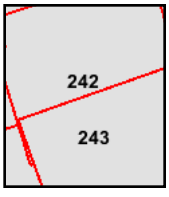

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Volume 9, Sheet 242
Volume 9, Sheet 243

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Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Inquiry Number: 4339741.1
July 06, 2015

Certified Sanborn® Map Report

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Shelton, Connecticut 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

7/06/15

Site Name:
Greenpoint
300 Varick Ave
Brooklyn, NY 11211

Client Name:
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

EDR Inquiry # 4339741.1

Contact: John Gondek

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City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: 1509790-1-1102
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Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1902
2003	1992	1986	1968	1888
2002	1991	1982	1965	

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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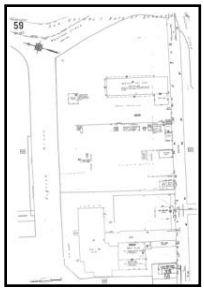

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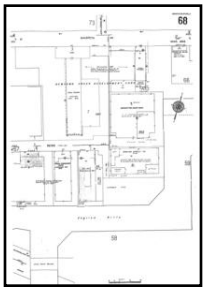

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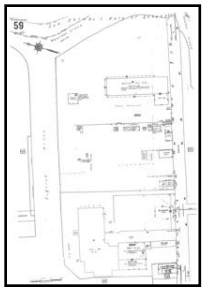

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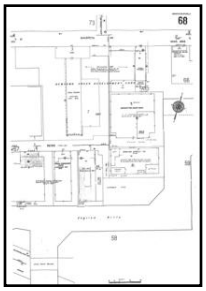

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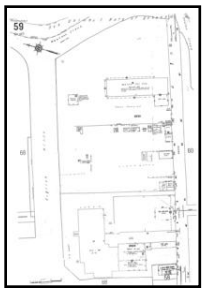

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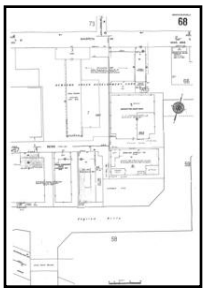

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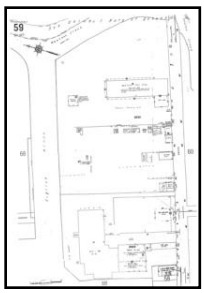

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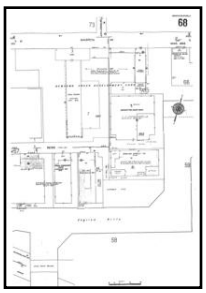

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2003 Source Sheets



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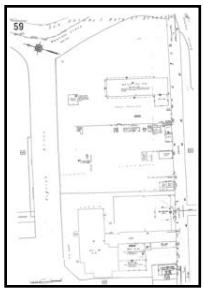

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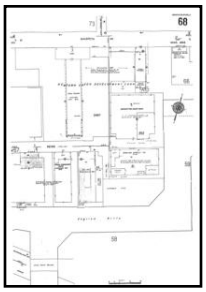

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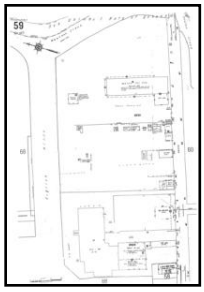

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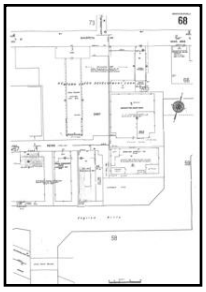

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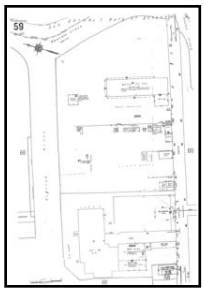

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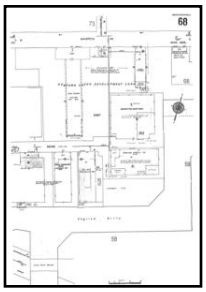

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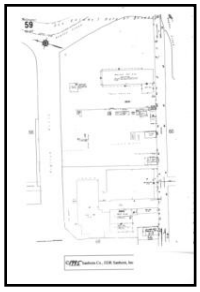

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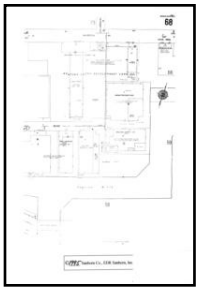

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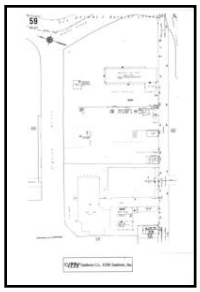

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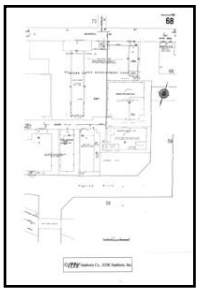

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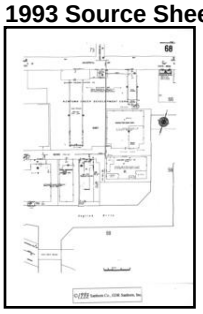

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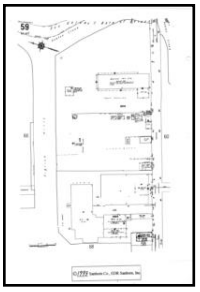

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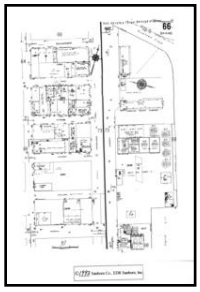

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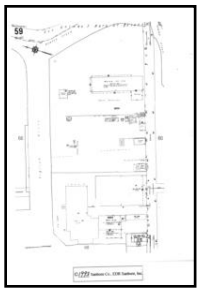

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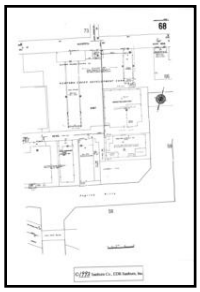

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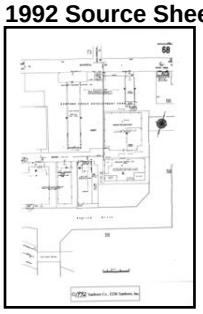

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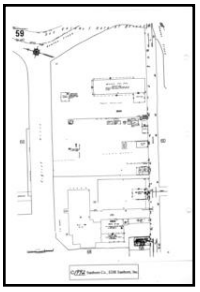

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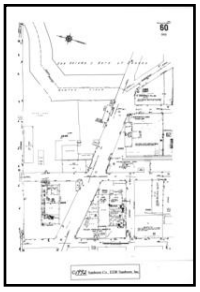

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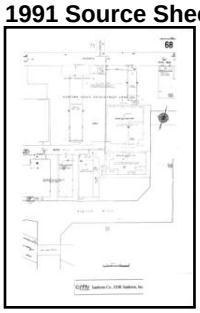

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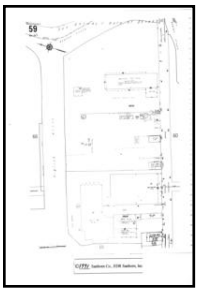

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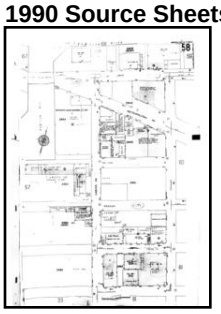

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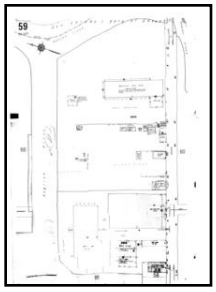

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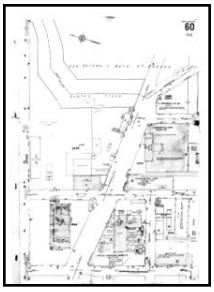

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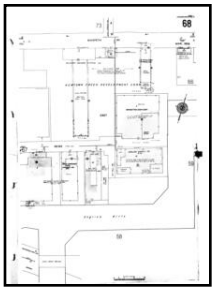

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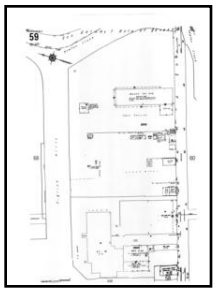

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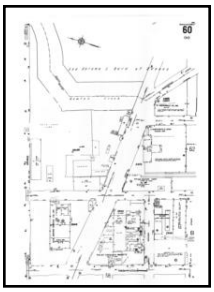

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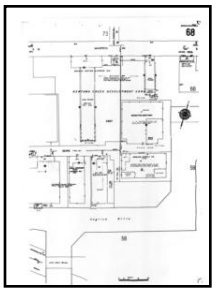

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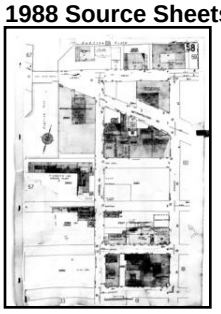

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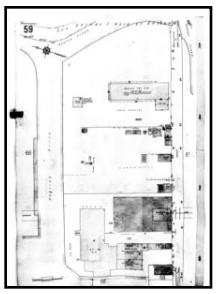

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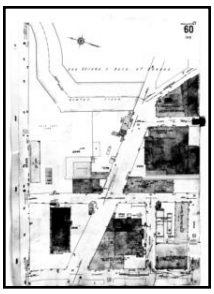

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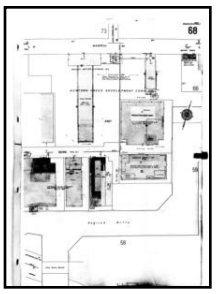

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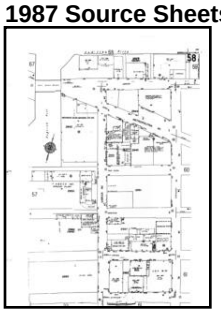

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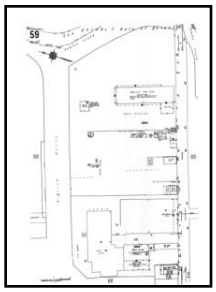

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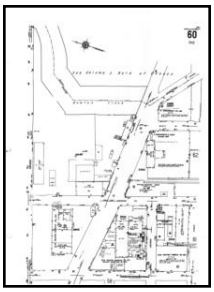

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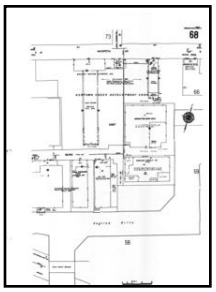

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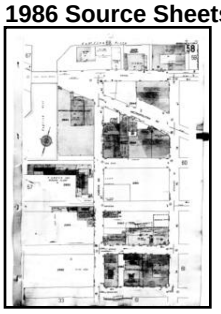

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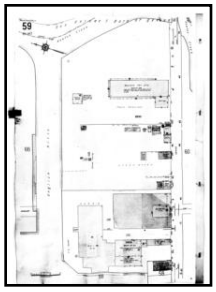

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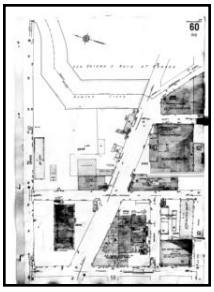

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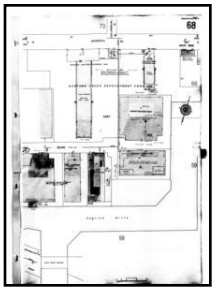

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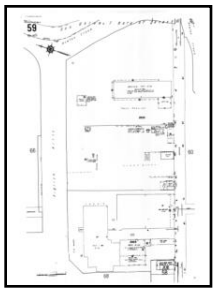

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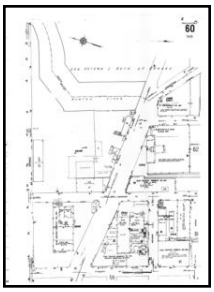

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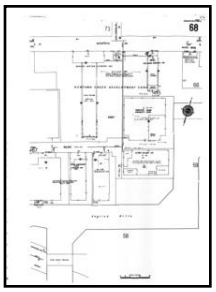

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1981 Source Sheets



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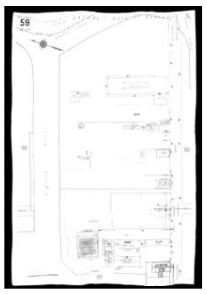

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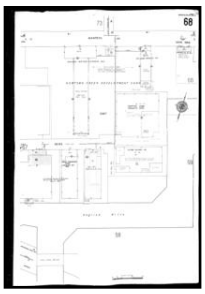

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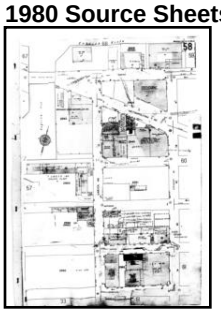
1980 Source Sheets



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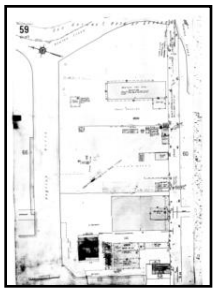

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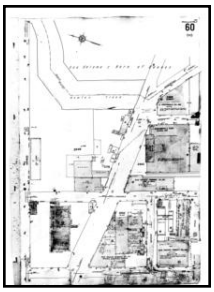

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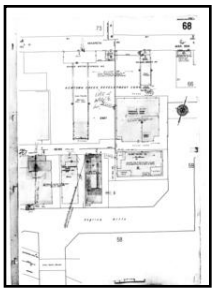

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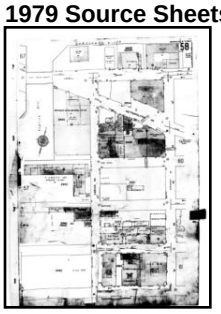
1979 Source Sheets



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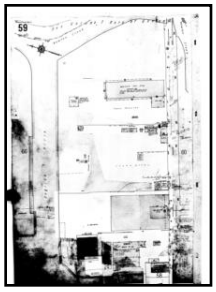

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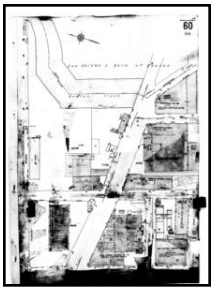

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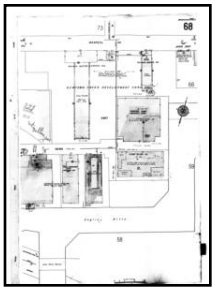

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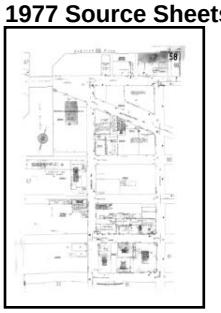
1977 Source Sheets



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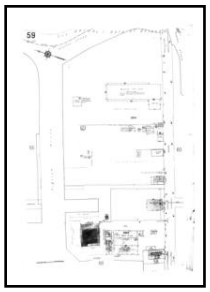

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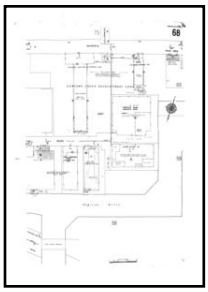

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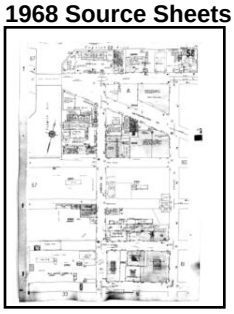
1968 Source Sheets



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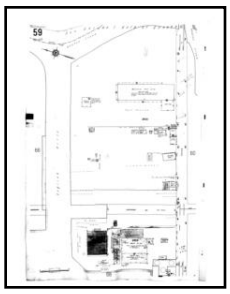

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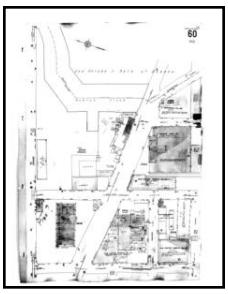

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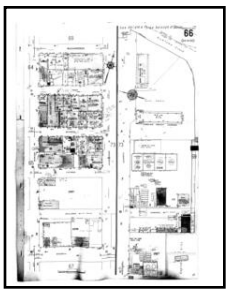

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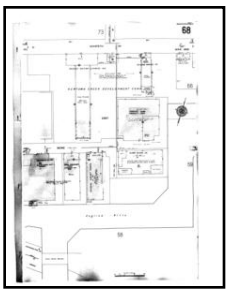

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1965 Source Sheets



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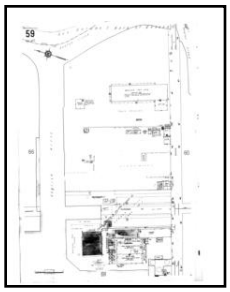

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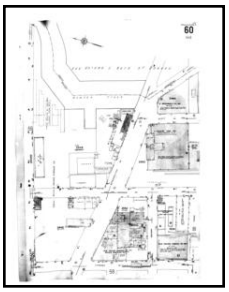

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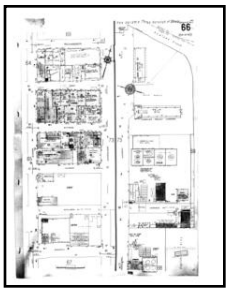

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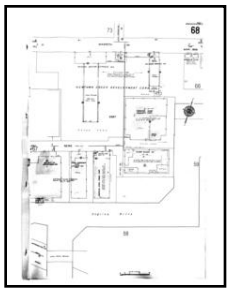

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1951 Source Sheets



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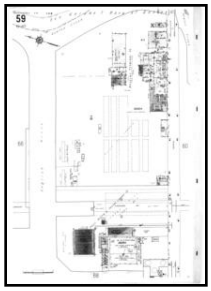

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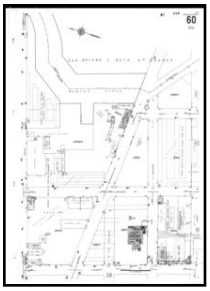

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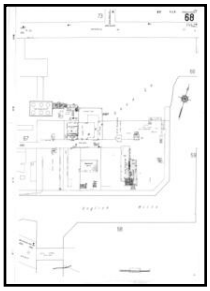

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1933 Source Sheets



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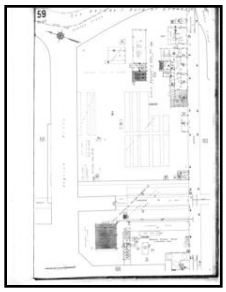

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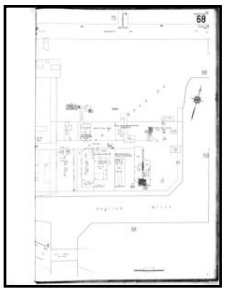
Volume 9, Sheet 60



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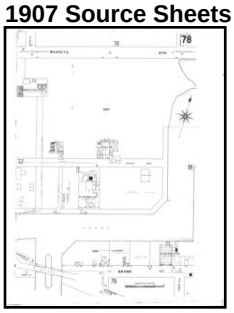
1907 Source Sheets



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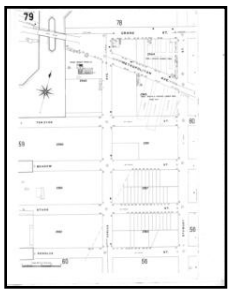

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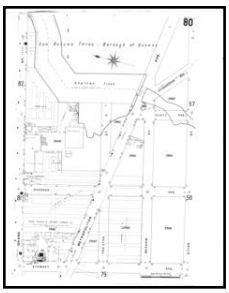

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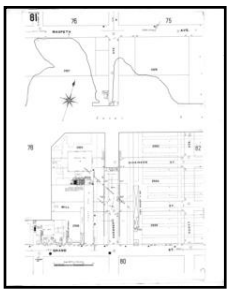

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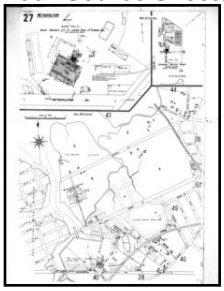

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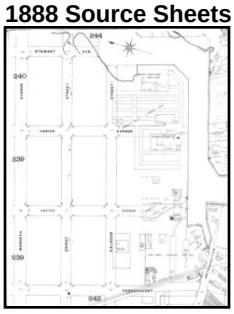
1888 Source Sheets



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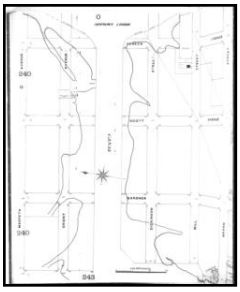

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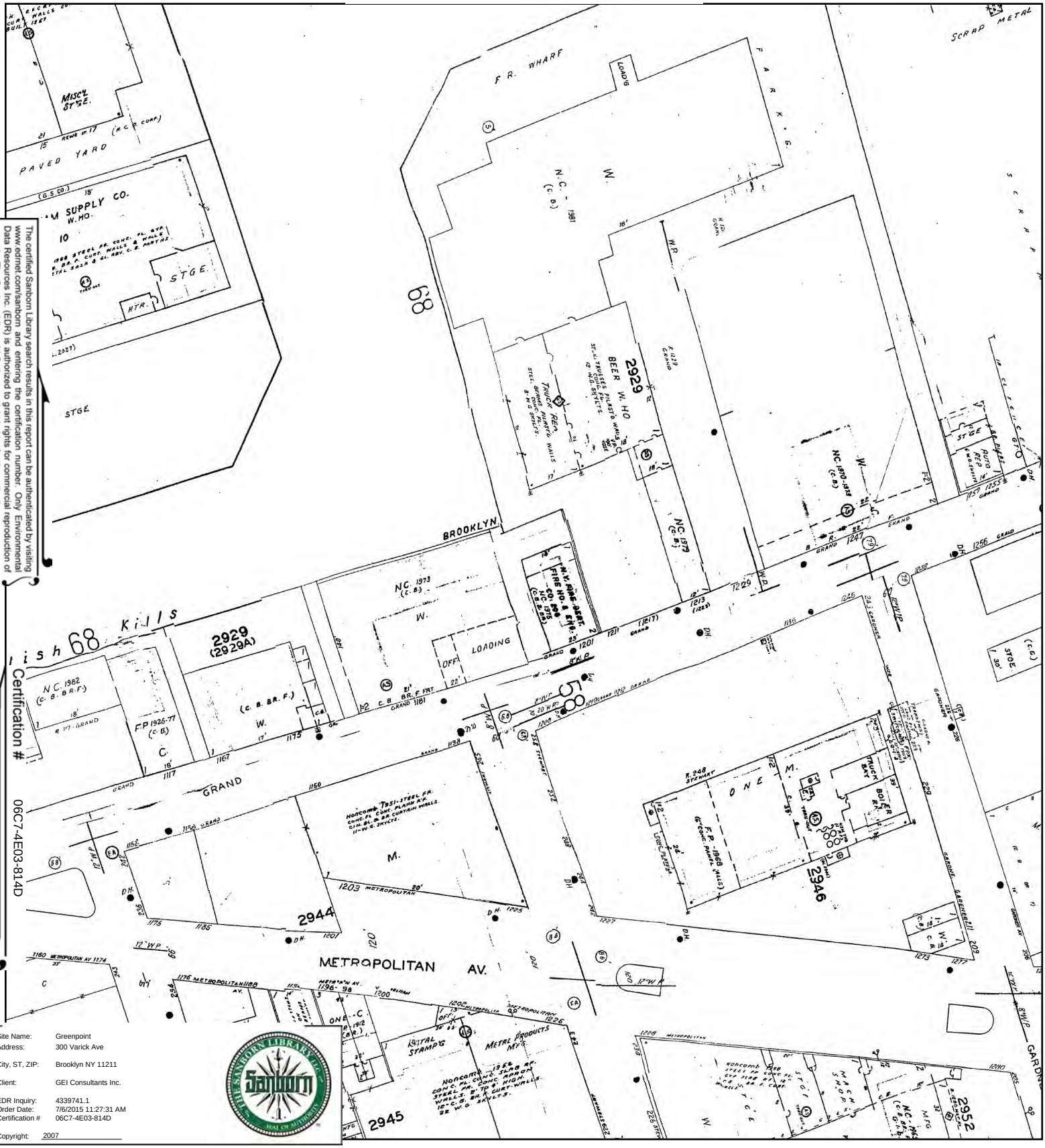
2007 Certified Sanborn Map



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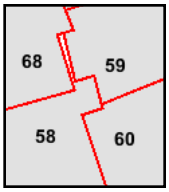

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0 Feet 165 330 660

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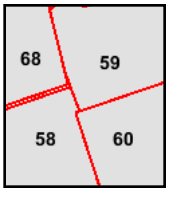

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0 Feet 165 330 660

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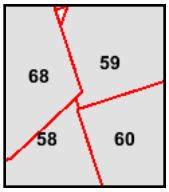

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2004 Certified Sanborn Map



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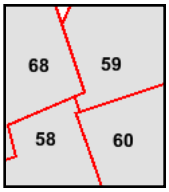

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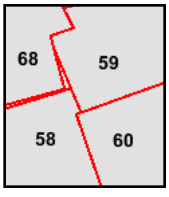

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2002 Certified Sanborn Map


F R. WHARF
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GRAND
LOADING
STGE.
MISC'L STGE.
UPPLY CO.
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(C. B. BR. F.)
F.P 1926-77
(C. B.)
NC. 1973
(C. B.)
NC. 1979
(C. B.)
NC. 1970-1978
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F.P. 1968 (WALLS)
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BOILER RM.
METRL PRODUCTS MFG.
MACH SHOP
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C.
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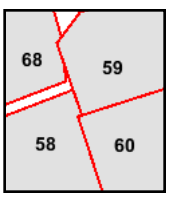

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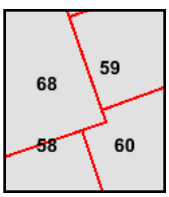

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0 Feet 165 330 660

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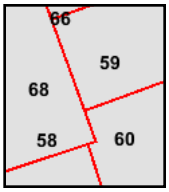

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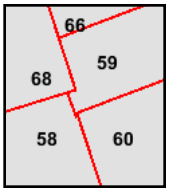

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Volume 9, Sheet 58	Volume 9, Sheet 59
Volume 9, Sheet 59	Volume 9, Sheet 60
Volume 9, Sheet 60	Volume 9, Sheet 66
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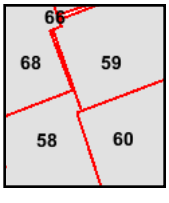

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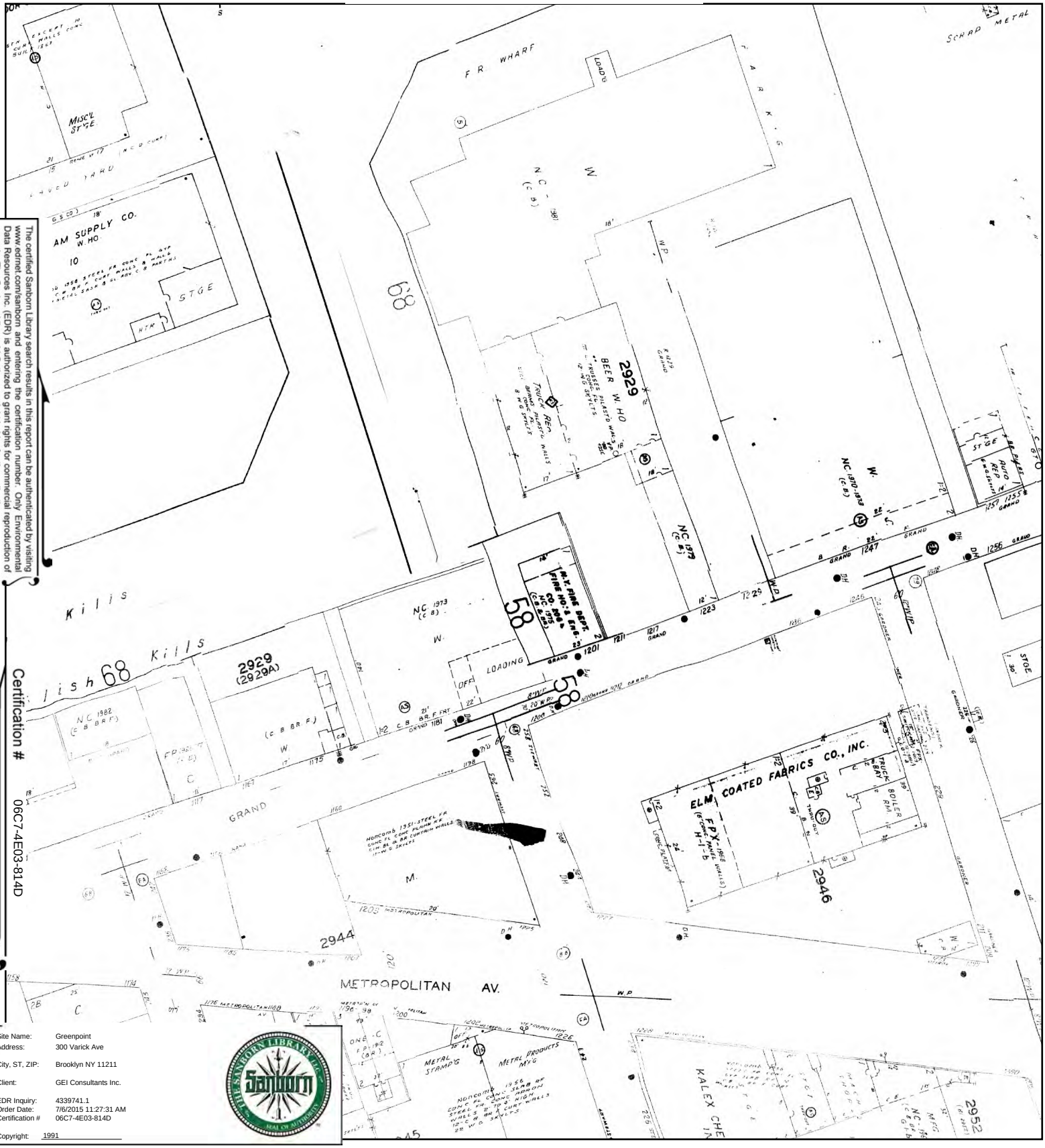
1991 Certified Sanborn Map



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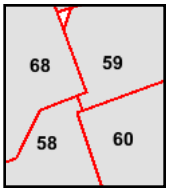

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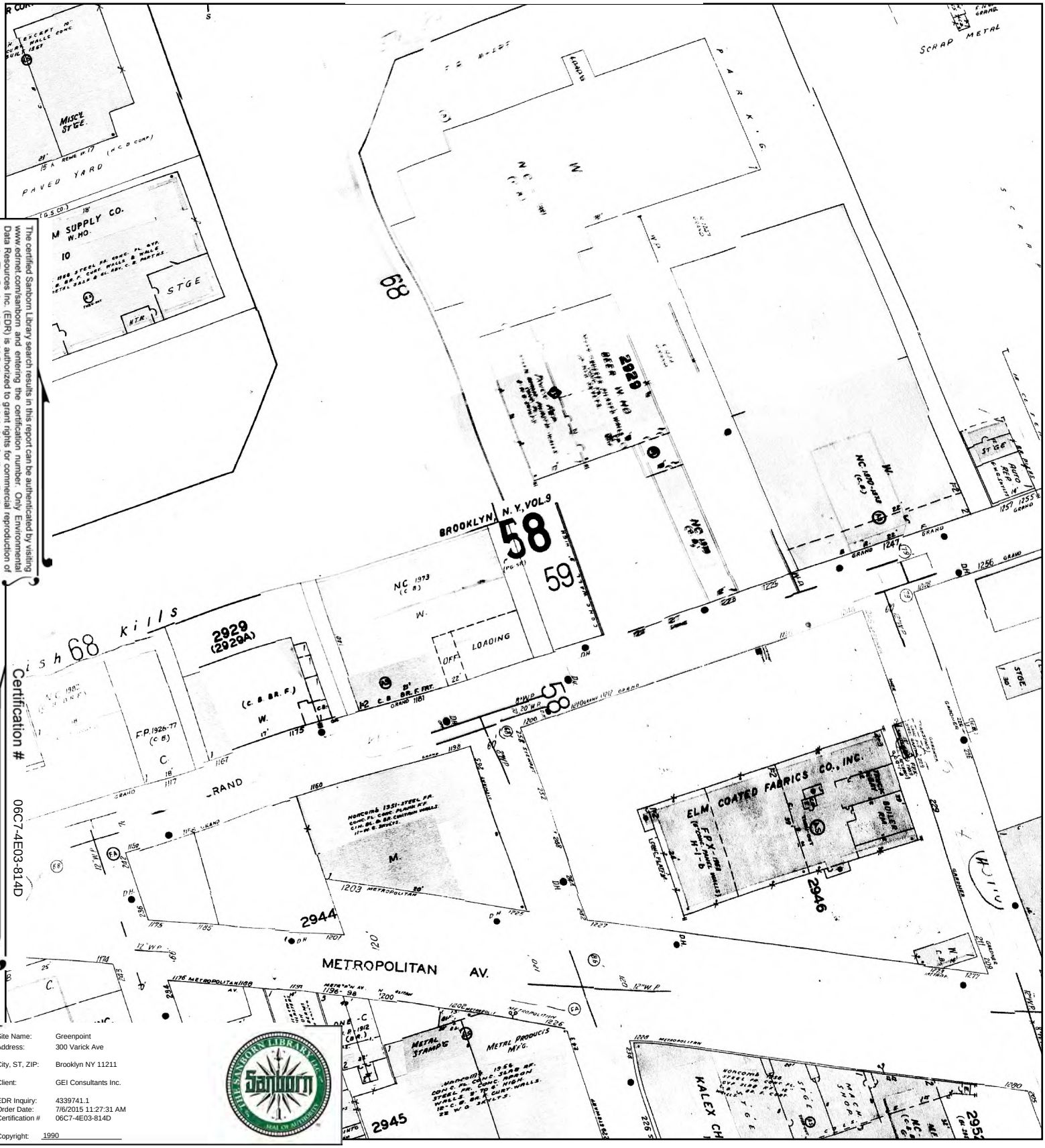

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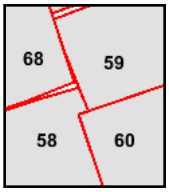

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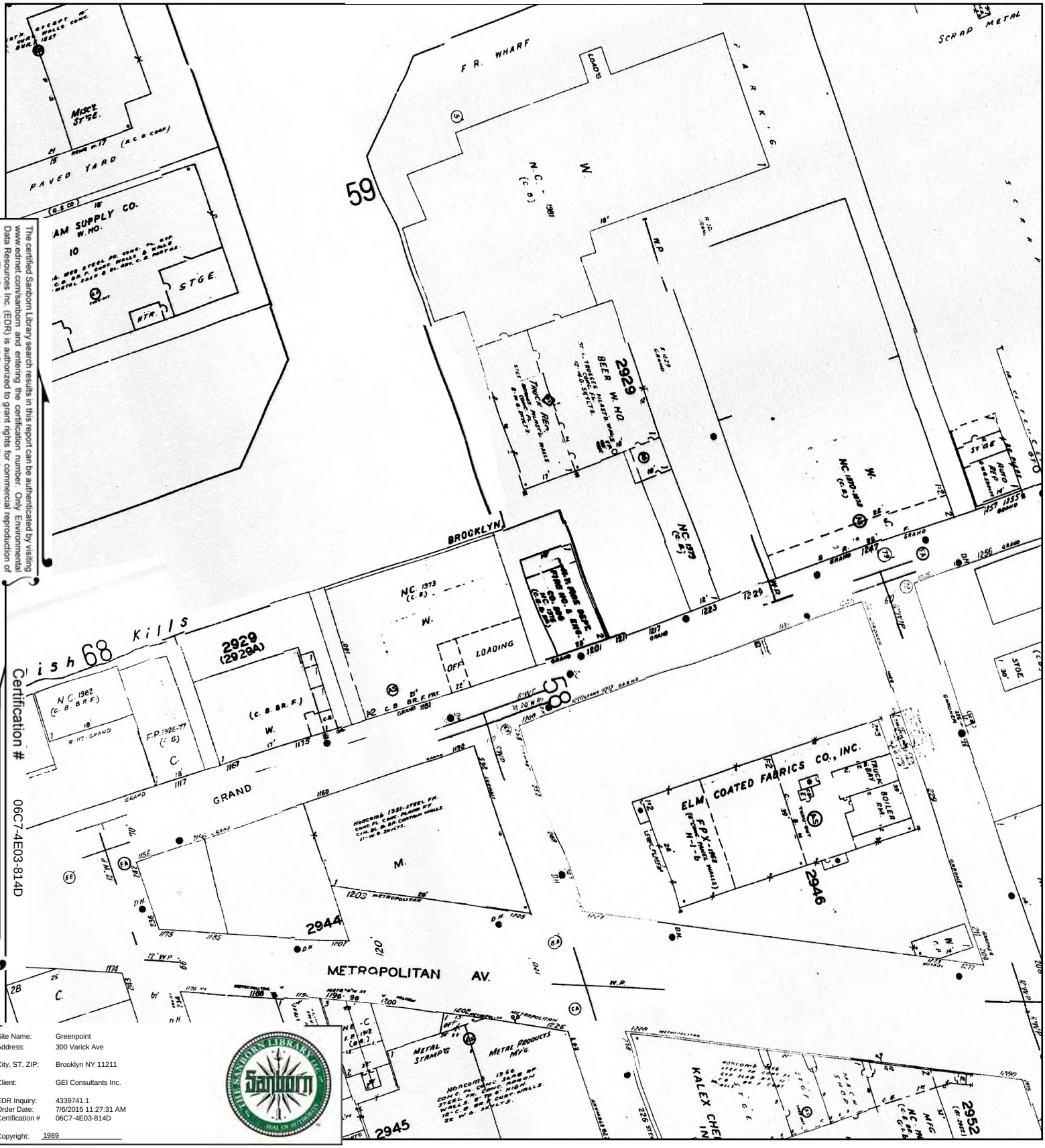
1989 Certified Sanborn Map



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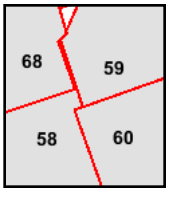

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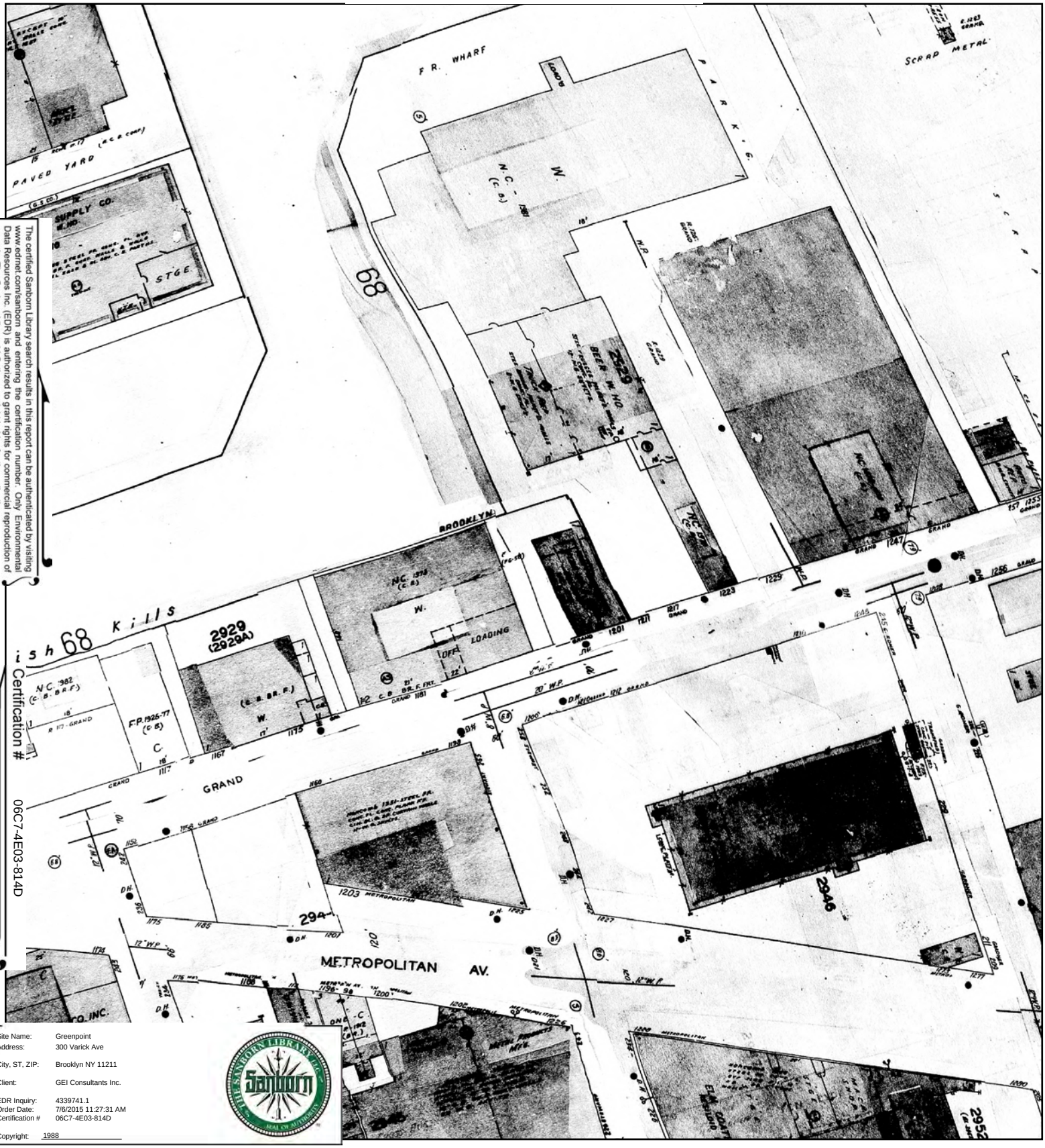
1988 Certified Sanborn Map



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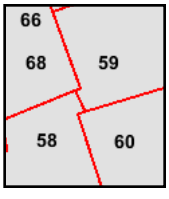

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1987 Certified Sanborn Map



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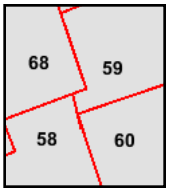

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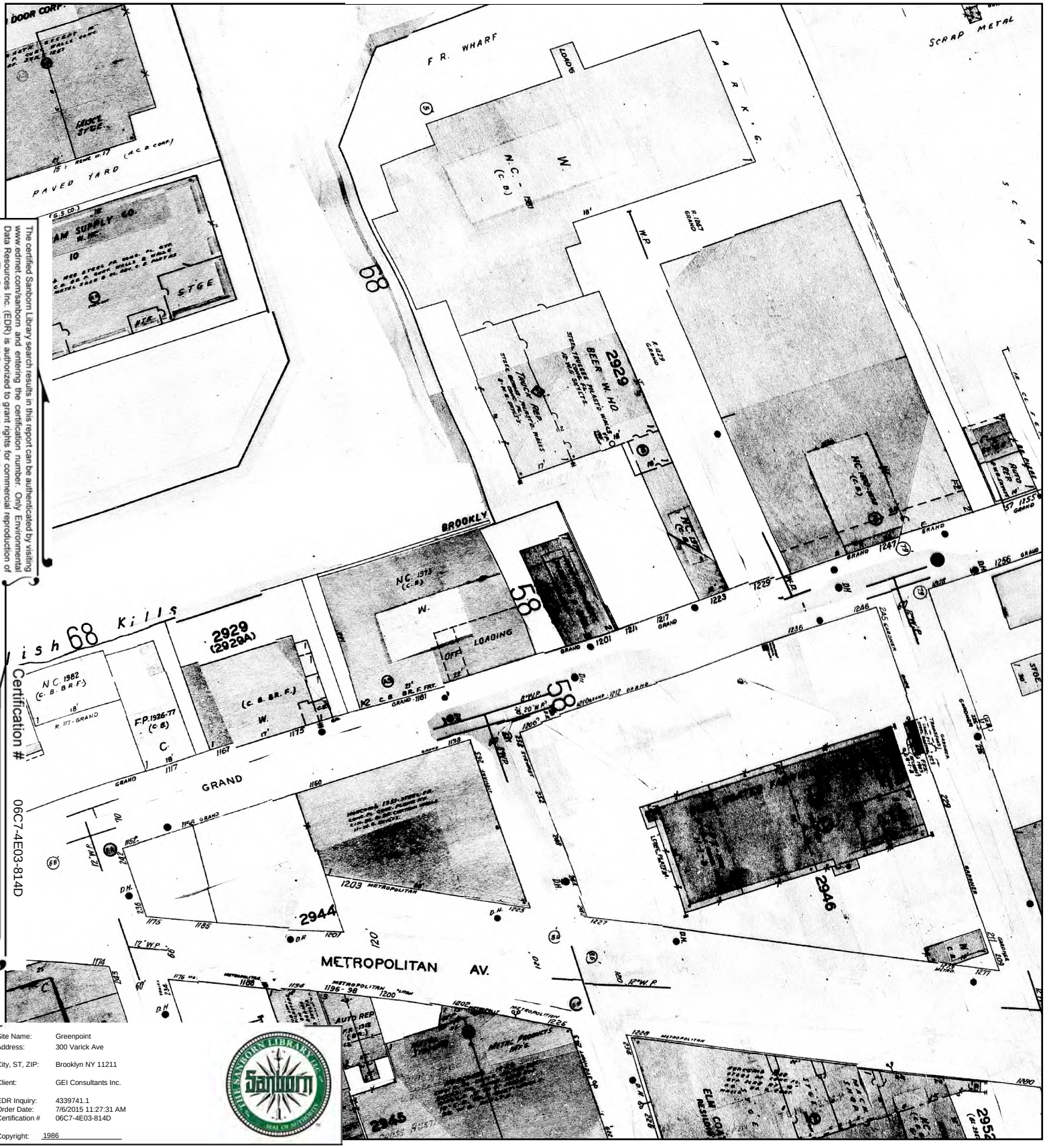
1986 Certified Sanborn Map



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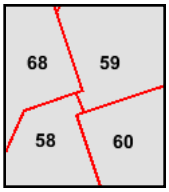

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1982 Certified Sanborn Map



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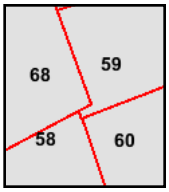

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1981 Certified Sanborn Map



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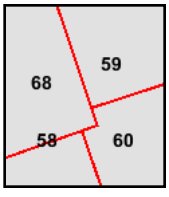

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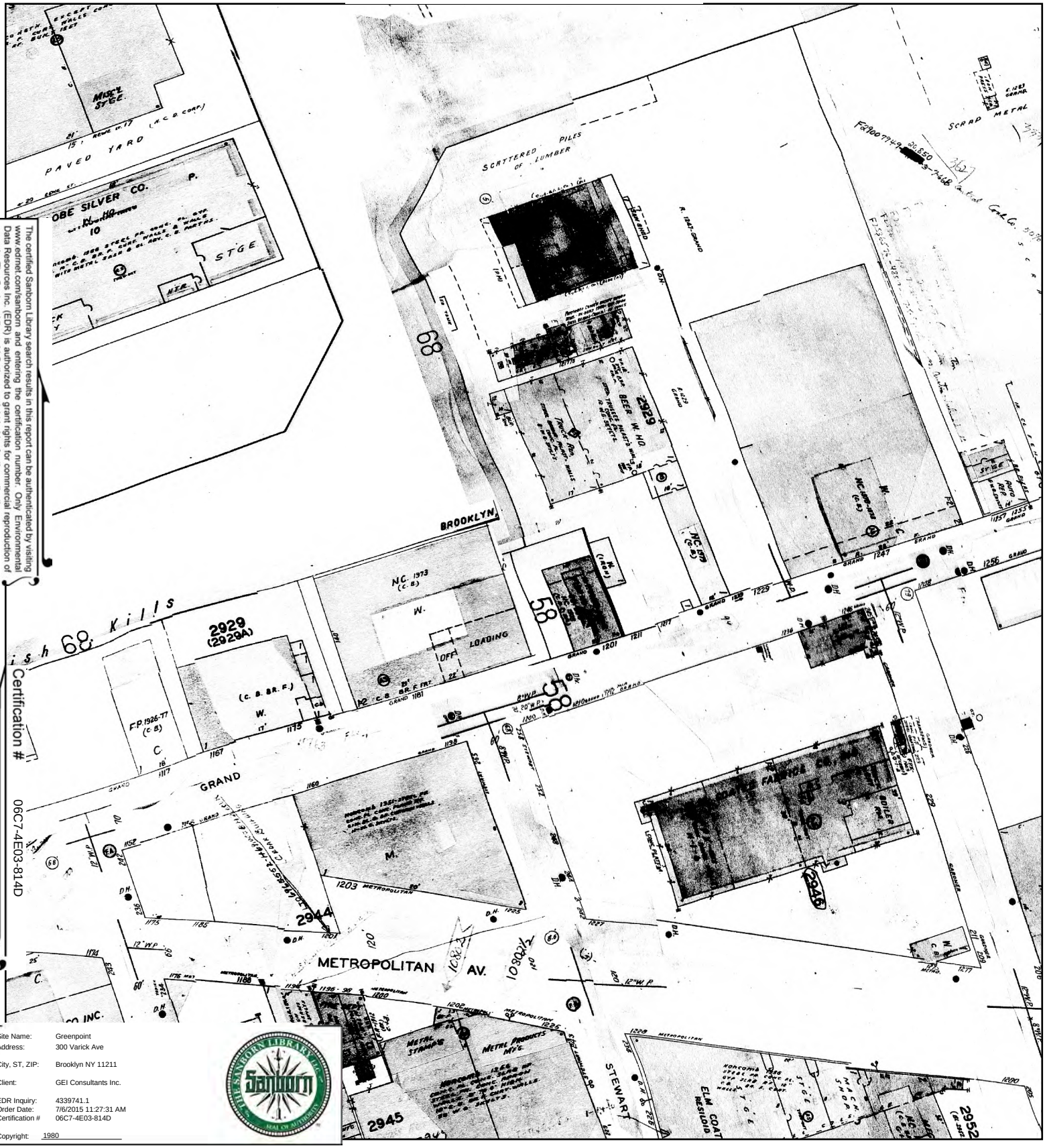
1980 Certified Sanborn Map



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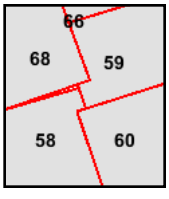

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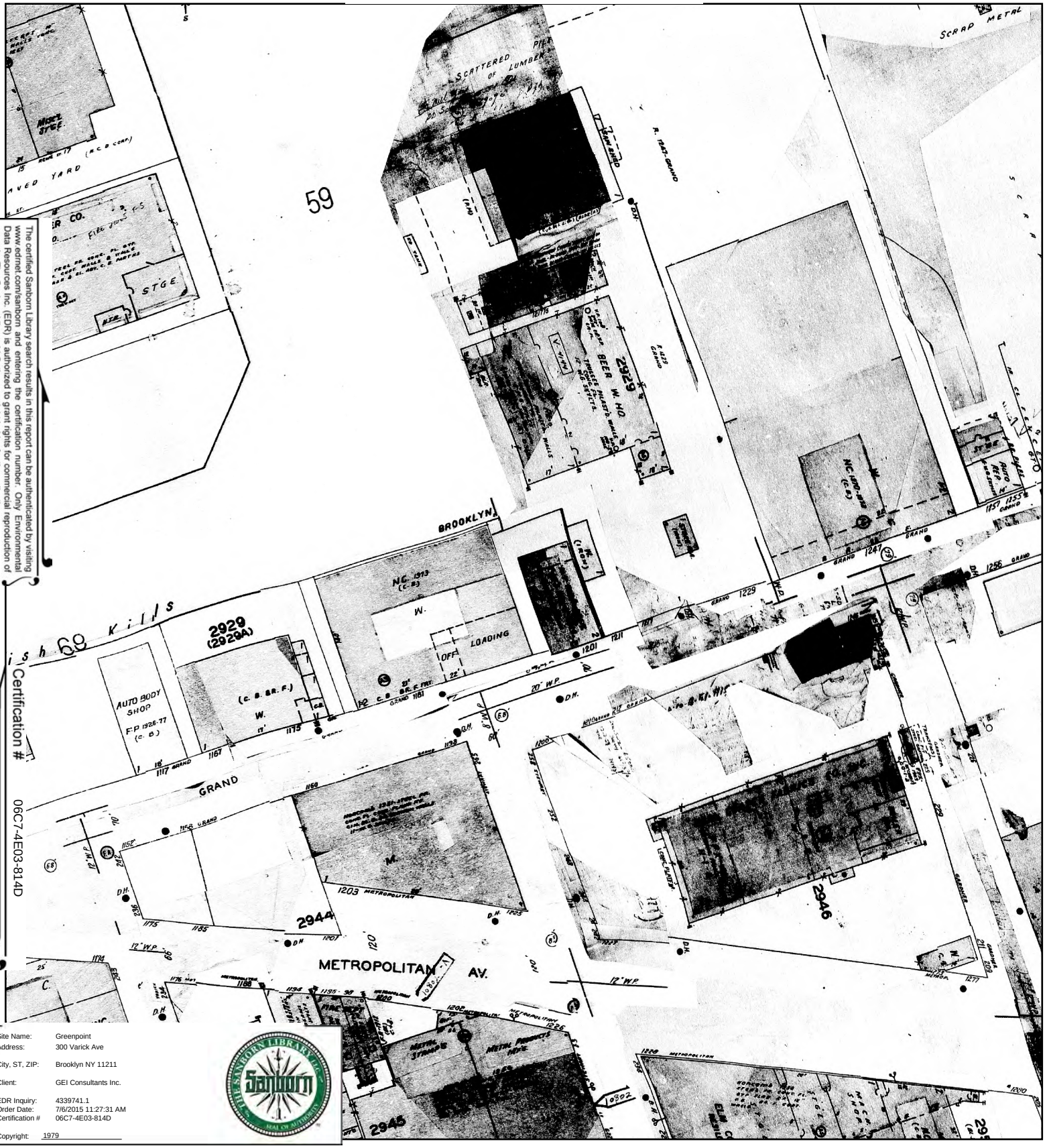
1979 Certified Sanborn Map



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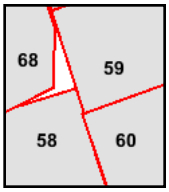

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1977 Certified Sanborn Map



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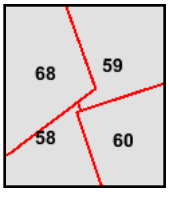

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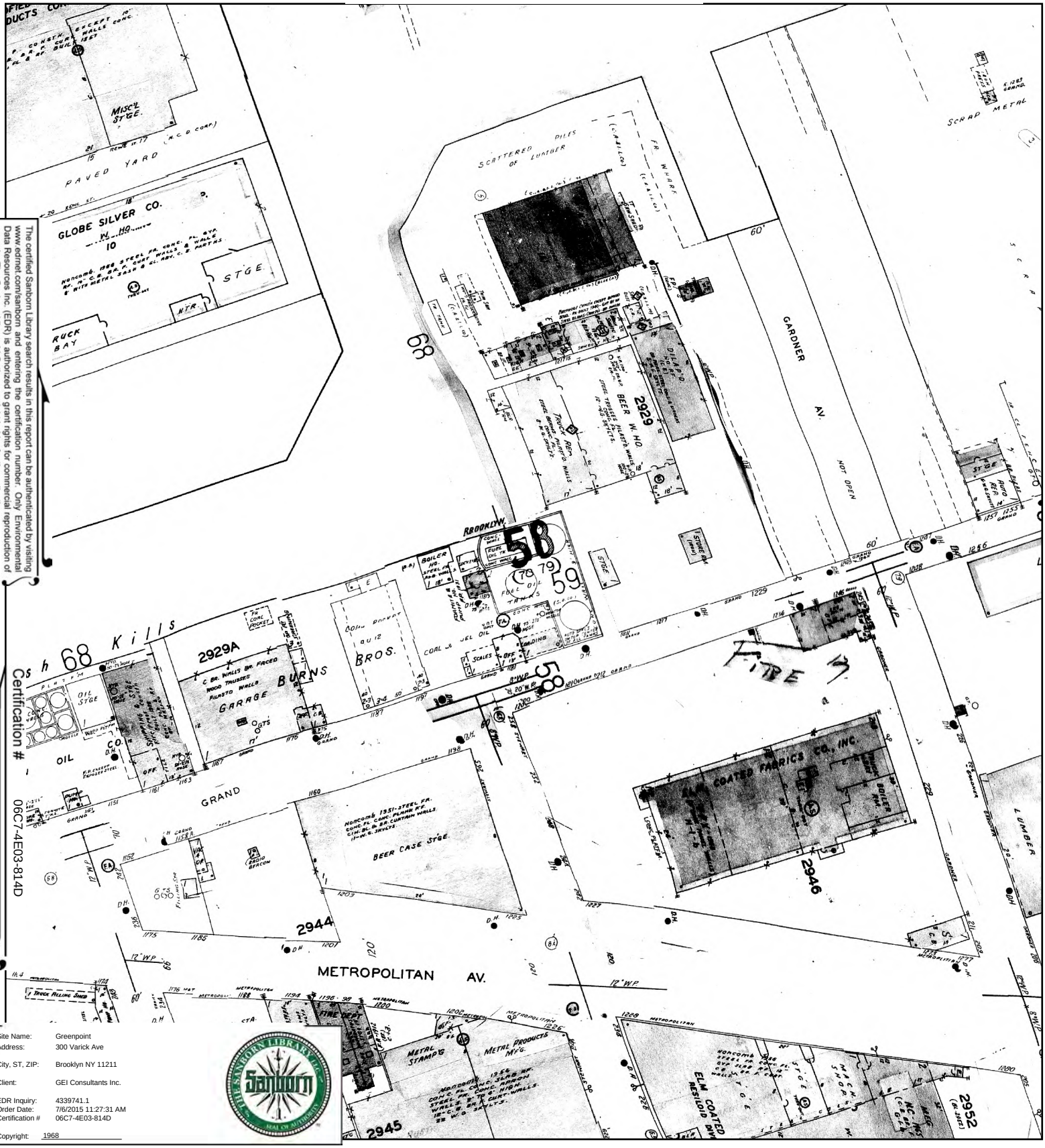
1968 Certified Sanborn Map



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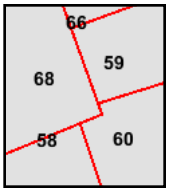

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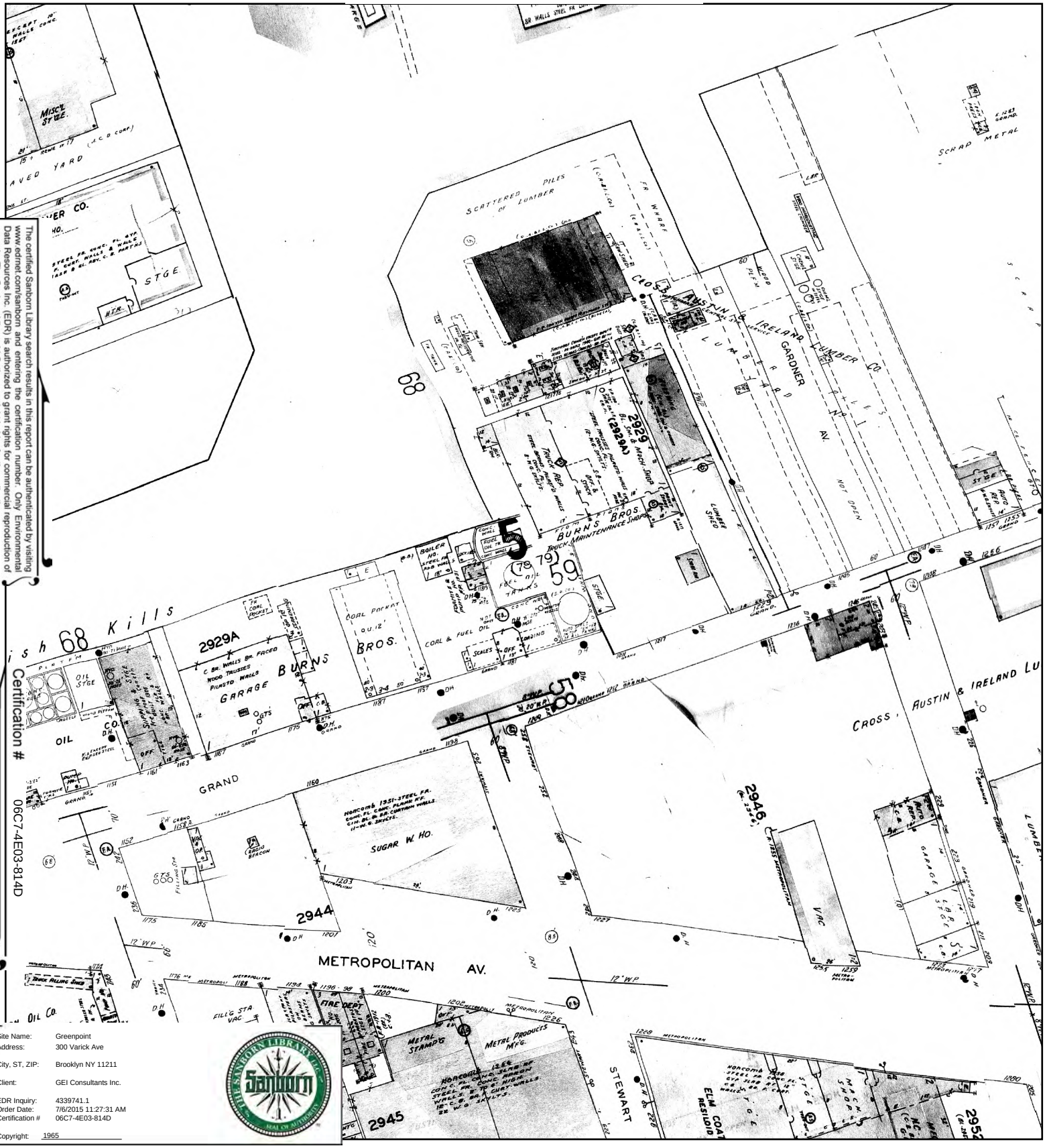
1965 Certified Sanborn Map



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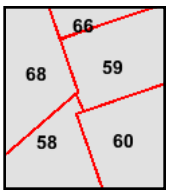

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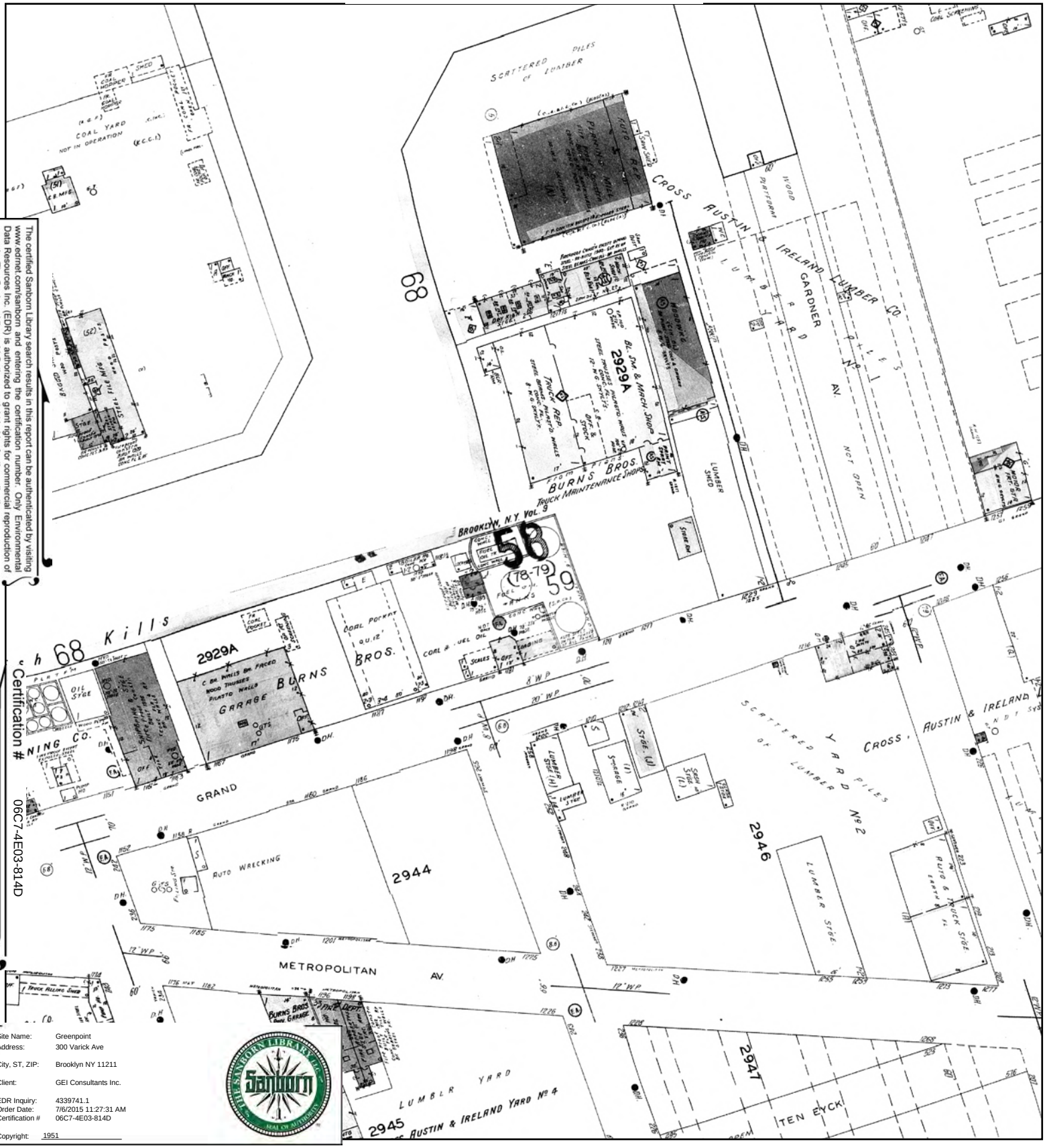
1951 Certified Sanborn Map



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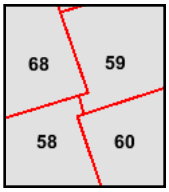
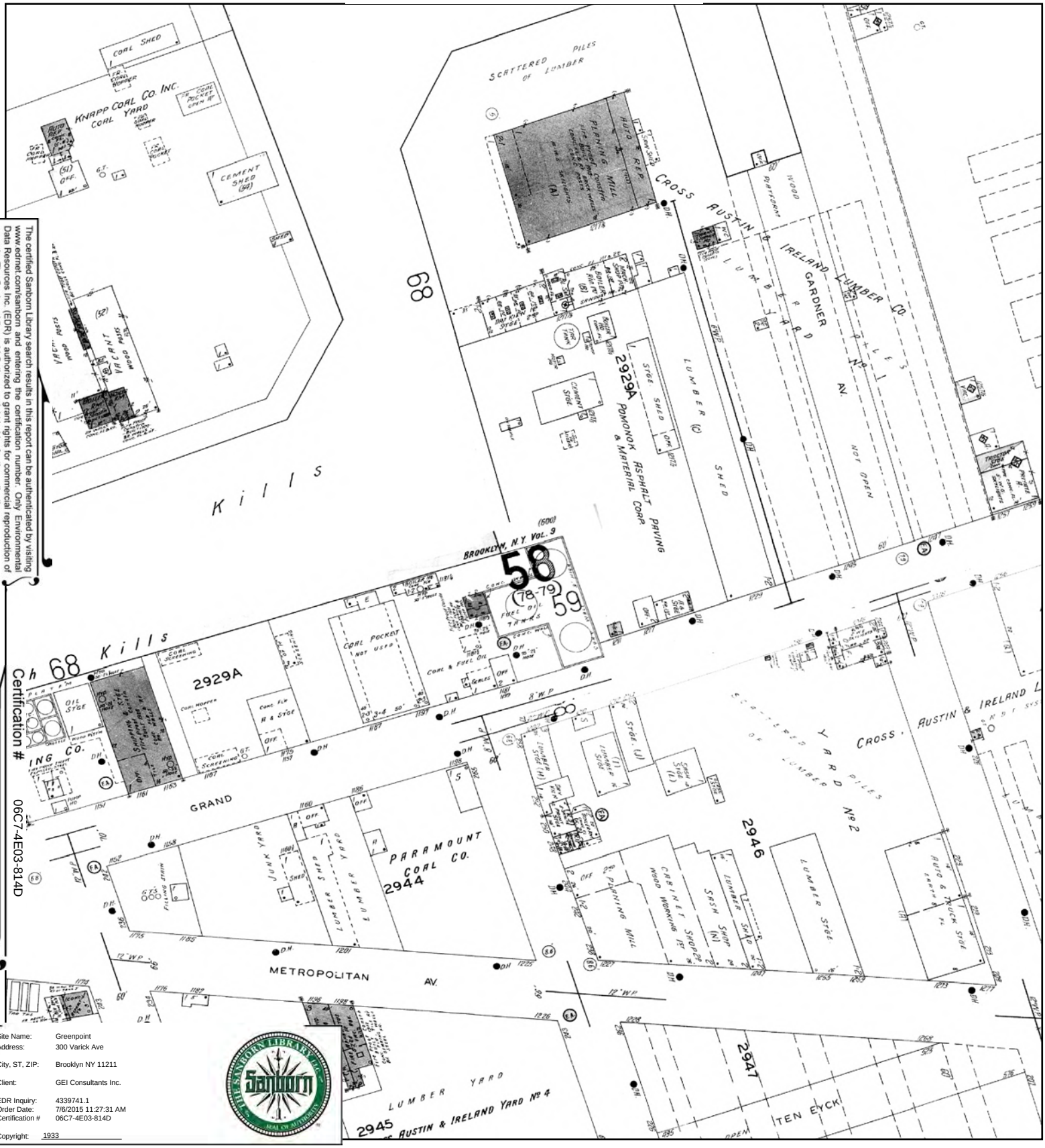


Volume 9, Sheet 58
Volume 9, Sheet 59
Volume 9, Sheet 60
Volume 9, Sheet 68

0 Feet 165 330 660

N

1933 Certified Sanborn Map



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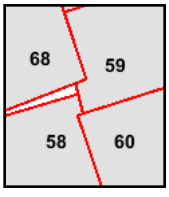

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Volume 9, Sheet 59
Volume 9, Sheet 60
Volume 9, Sheet 68

0 Feet 165 330 660

N

1907 Certified Sanborn Map



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Site Name:	Greenpoint
Address:	300 Varick Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	GEI Consultants Inc.
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Certification #	06C7-4E03-814D
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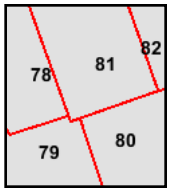

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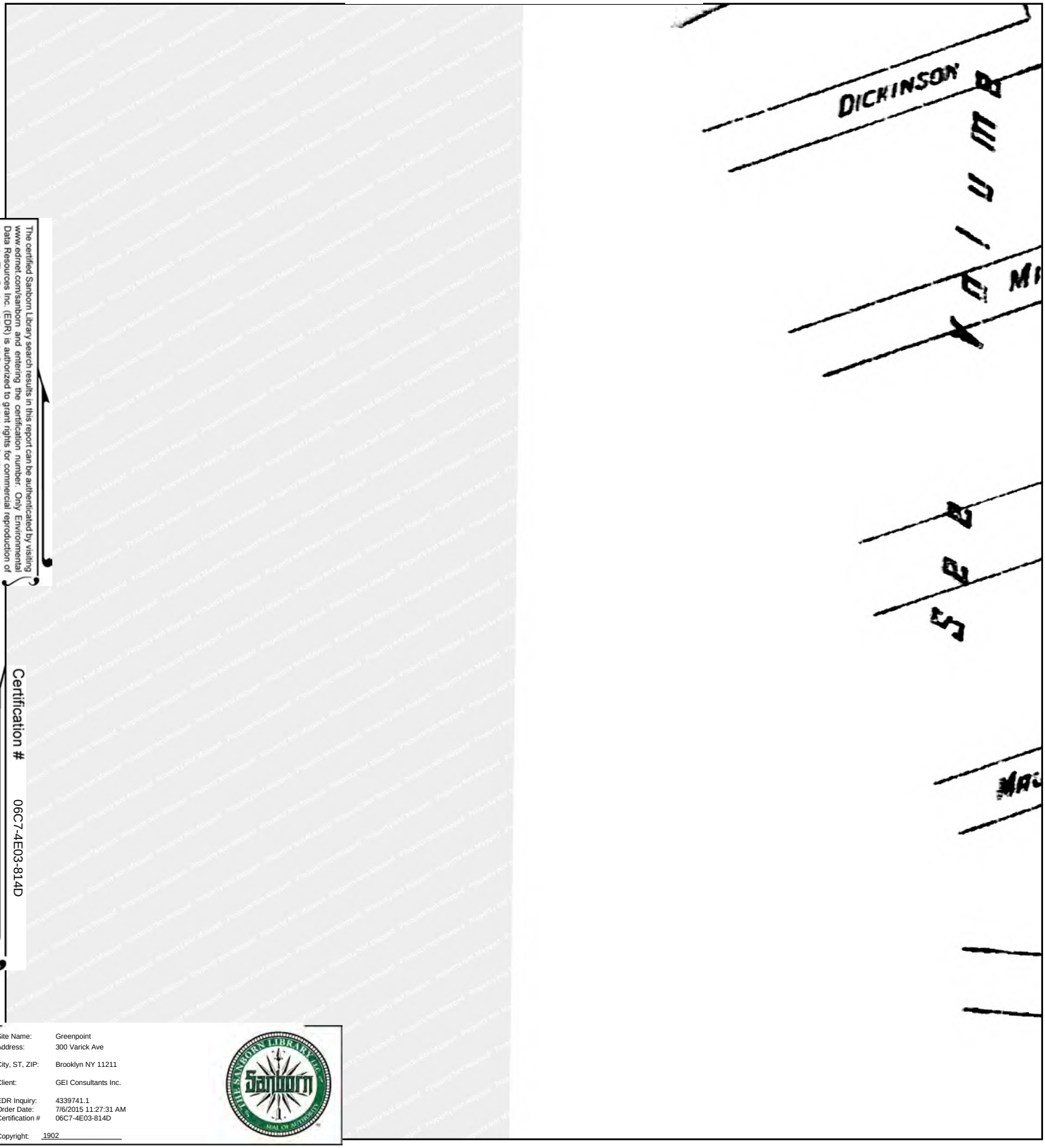
Volume 9, Sheet 79
Volume 9, Sheet 80
Volume 9, Sheet 81

N

1902 Certified Sanborn Map



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Address: 300 Varick Ave
City, ST, ZIP: Brooklyn NY 11211
Client: GEI Consultants Inc.
EDR Inquiry: 4339741.1
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Copyright: 1902

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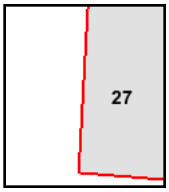

Volume 3, Sheet 27

0 Feet 165 330 660

N

1888 Certified Sanborn Map



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Site Name:	Greenpoint
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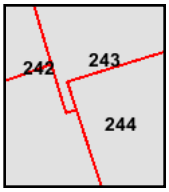

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Volume 9, Sheet 243
Volume 9, Sheet 243
Volume 9, Sheet 244

0 Feet 165 330 660

N

ROBINSON'S

ATLAS

OF THE

CITY OF



Brooklyn

NEW YORK.

Embracing all territory within its Corporate limits

FROM

Official Records Private Plans & Actual Surveys.

BY AND UNDER THE SUPERVISION OF

E. Robinson & R. H. Pidgeon.

Civil Engineers.

PUBLISHED BY

E. ROBINSON.

82 & 84 Nassau St.

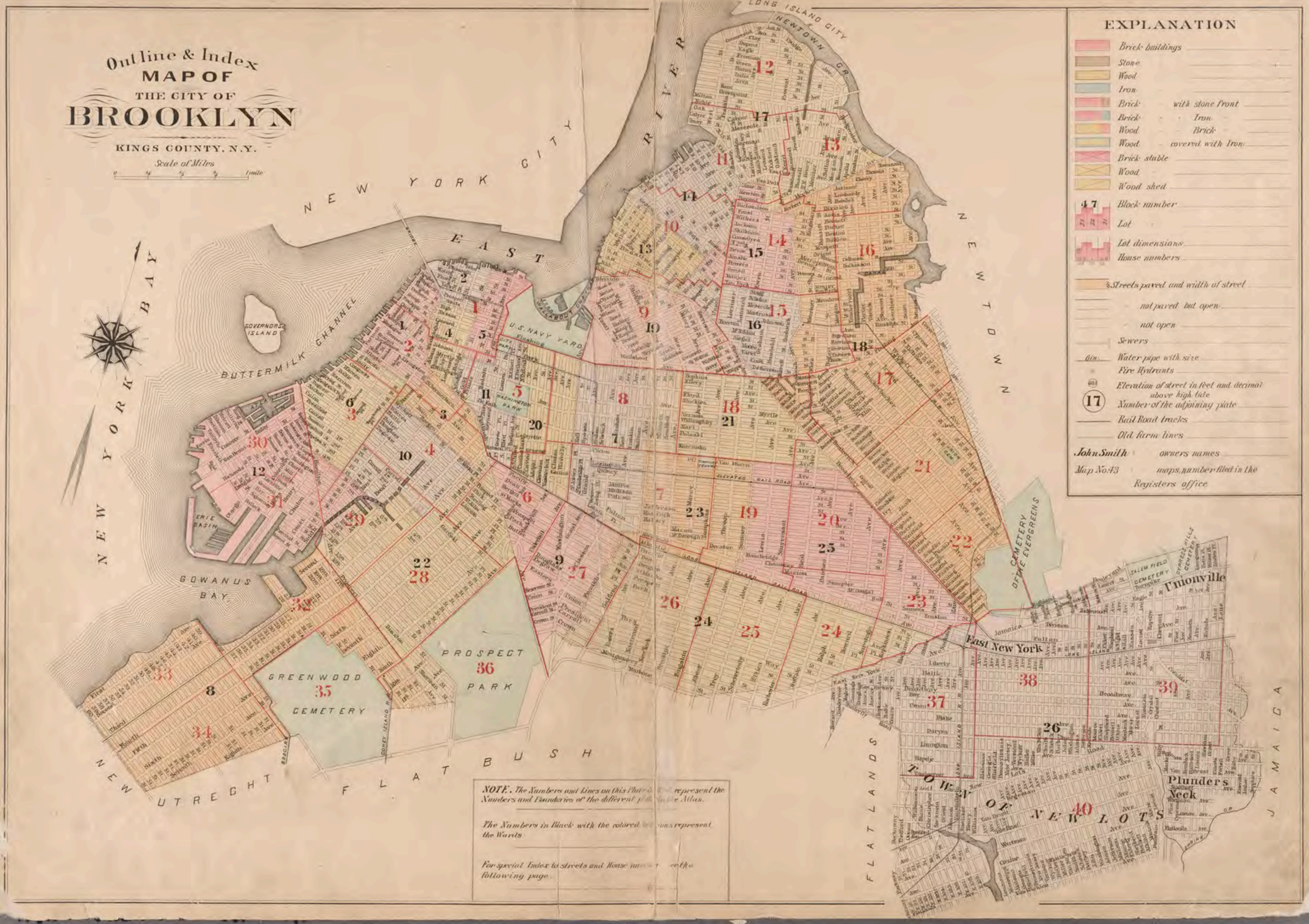
New York.

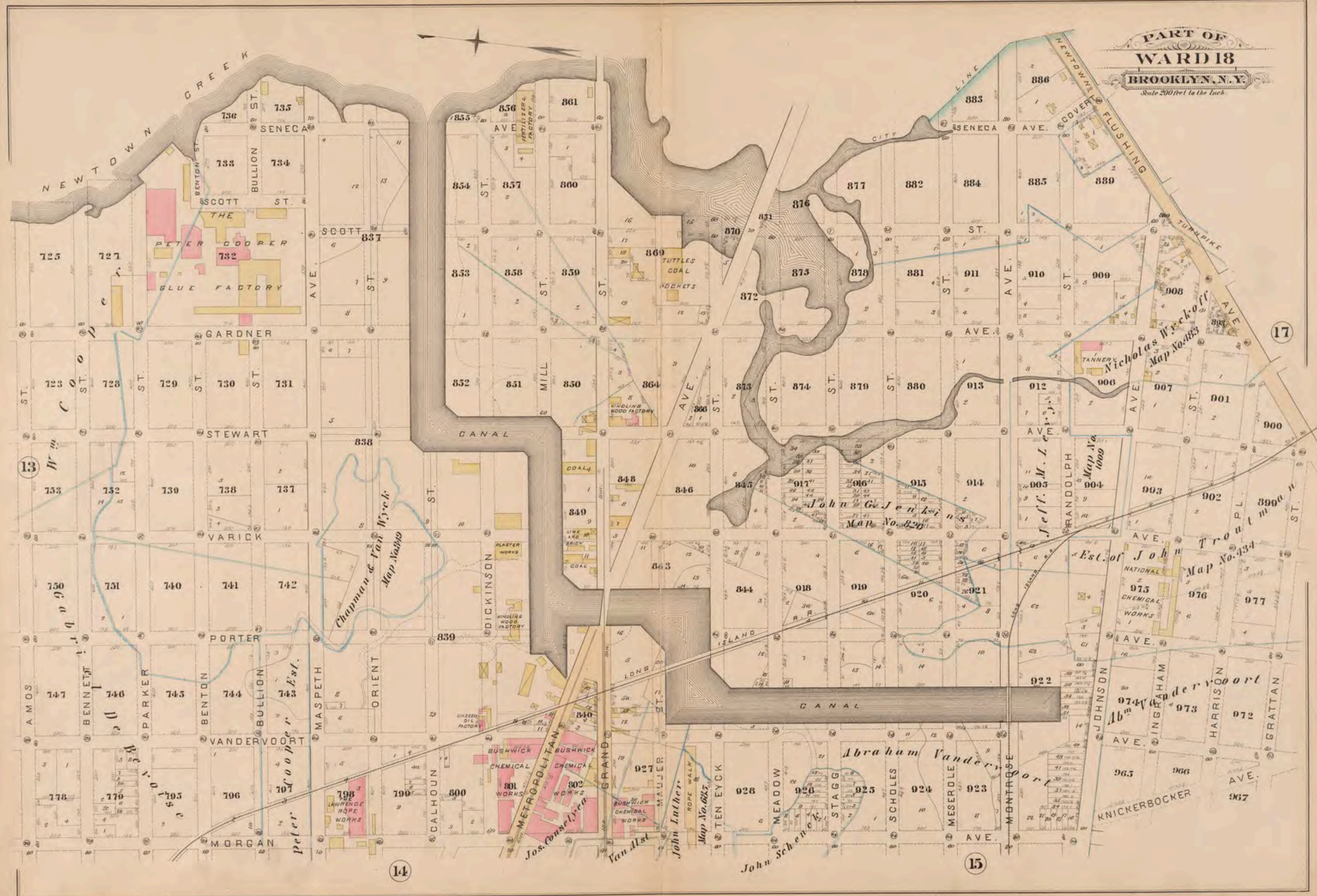
Engraved by
A.H. MUELLER
528 & 530 Locust St.
Philada.

Printed by
F. BOURQUIN
31 So. Sixth St.
Philada.

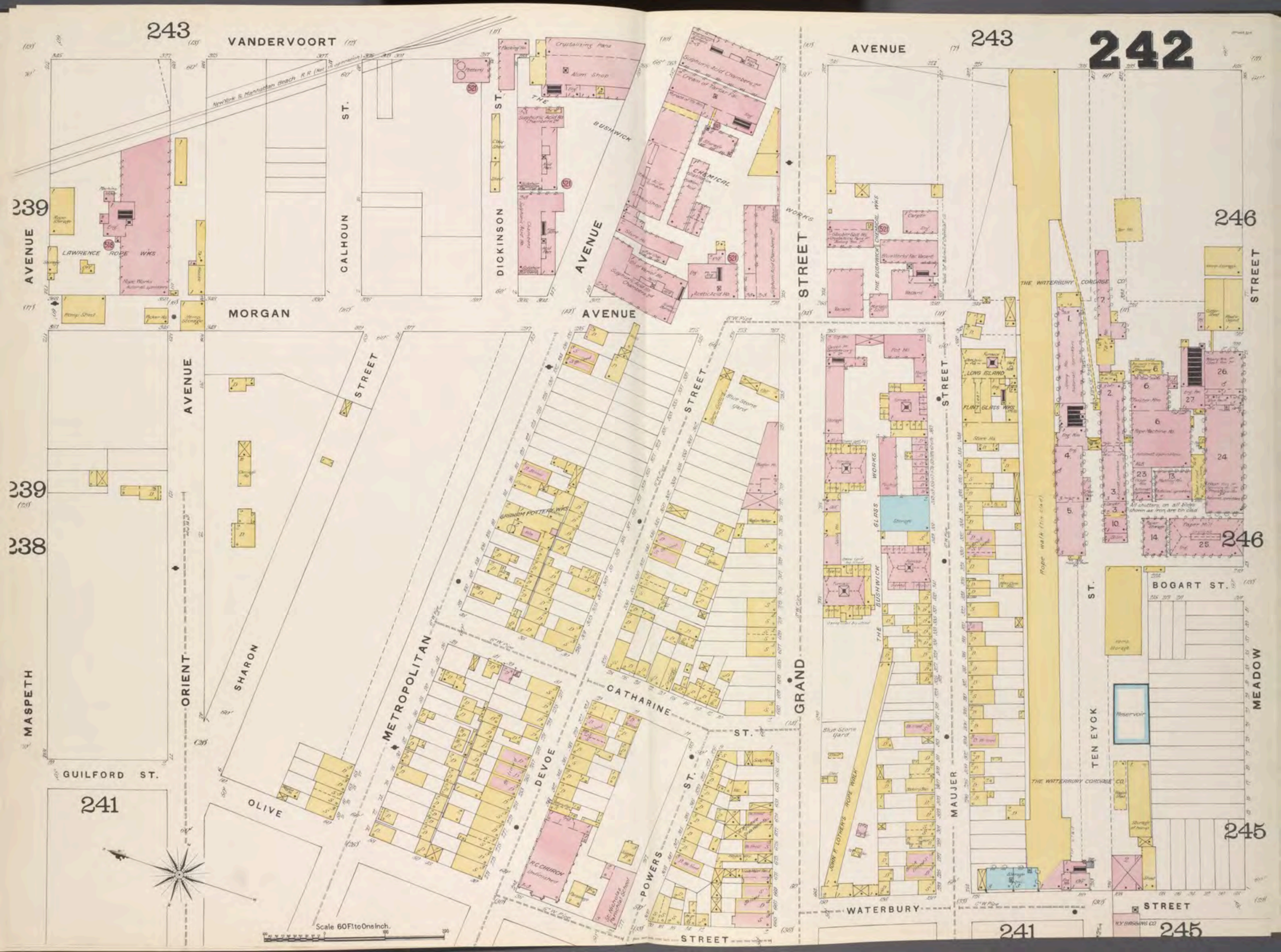
1886.

Entered according to Act of Congress in the Year 1886 by E. Robinson in the Office of the Librarian of Congress at Washington, D.C.


Outline & Index
MAP OF
THE CITY OF
BROOKLYN
KINGS COUNTY, N.Y.
Scale of Miles
EXPLANATION
Brick buildings
Stone
Wood
Iron
Brick with stone front
Brick Iron
Wood Brick
Wood covered with Iron
Brick stable
Wood
Wood shed
Block number
Lot
Lot dimensions
House numbers
Streets paved and width of street
not paved but open
not open
Sewers
Water pipe with size
Fire Hydrants
Elevation of street in feet and decimal above high tide
Number of the adjoining plate
Rail Road tracks
Old farm lines
John Smith owners names
Map No. 43 maps, number filed in the Registers office
NEW YORK CITY
EAST RIVER
LONG ISLAND CITY
NEWTOWN CR.
NEWTOWN
NEW YORK BAY
GOVERNORS ISLAND
BUTTERMILK CHANNEL
U.S. NAVY YARD
WASHINGTON PARK
ERIE BASIN
GOWANUS BAY
GREENWOOD CEMETERY
PROSPECT PARK
NEW UTRECHT
FLAT BUSH
FLATLANDS
TOWN OF NEW LOTS
JAMAICA
East New York
Unionville
Plunders Neck
CEMETERY OF THE EVERGREENS
SALEM FIELD CEMETERY
CYPRESS HILLS CEMETERY
NOTE. The Numbers and Lines on this Plate represent the Numbers and Boundaries of the different plates in the Atlas.
The Numbers in Black with the colored sections represent the Wards
For special Index to streets and House numbers see the following page.


PART OF
WARD 18
BROOKLYN, N.Y.
Scale 200 feet to the Inch.
NEWTOWN CREEK
SENECA
SCOTT ST.
THE PETER COOPER GLUE FACTORY
GARDNER
STEWART
VARICK
PORTER
VANDERVOORT
MORGAN
BENTON ST.
BULLION ST.
AVE.
ST.
MILL ST.
CANAL
FERTILIZER FACTORY
TUTTLES COAL POCKETS
KINDLING WOOD FACTORY
COAL
LIME AND BRICK
PLASTER WORKS
DICKINSON
Chapman & Van Wyck Map No. 849
Peter Cooper Est.
Gabriel De Bevoise
AMOS
BENNETT
PARKER
MASPETH
ORIENT
CALHOUN
METROPOLITAN
GRAND
MAUJER
TEN EYCK
MEADOW
STAGG
SCHOLES
MESEROLE
MONTROSE
JOHNSON
INGRAHAM
HARRISON
GRATTAN
KNICKERBOCKER
RANDOLPH
COVERT
FLUSHING
TURNPIKE
NEWTOWN
CITY LINE
LONG ISLAND R.R.
Nicholas Wyckoff Map No. 483
TANNERY
Jeff. M. Levy Map No. 1009
John G. Jenkins Map No. 826
Est. of John Troutman Map No. 434
NATIONAL CHEMICAL WORKS
Abm Vandervoort
Abraham Vandervoort
John Luther Map No. 685
John Schenck
Van Alst
Jos. Conselyea
BUSHWICK CHEMICAL WORKS
LAWRENCE ROPE WORKS
UNSEED OIL FACTORY
13
14
15
17


BROOKLYN
Sanborn Map & Publishing Co
1888
KEY


242
243
VANDERVOORT
AVENUE
239
AVENUE
LAWRENCE ROPE WKS
CALHOUN ST.
DICKINSON ST.
THE BUSHWICK
AVENUE
CHEMICAL WORKS
MORGAN
AVENUE
STREET
246
THE WATERBURY CORDAGE CO.
STREET
LONG ISLAND
FLINT GLASS WKS
STREET
239
238
MASPETH
ORIENT
AVENUE
SHARON
STREET
METROPOLITAN
GRAHAM POTTERY WKS
CATHARINE
ST.
GRAND
STREET
DEVOE
POWERS
ST.
GUILFORD ST.
241
OLIVE
R.C. CHURCH
Unfinished
Scale 60 Ft. to One Inch.
WATERBURY
STREET
MAUJER
STREET
TEN EYCK
ST.
BOGART ST.
MEADOW
STREET
Reservoir
THE WATERBURY CORDAGE CO.
245
241
245


244
240
247
240
247
243
243

ATLAS

OF

The CITY of

BROOKLYN

NEW YORK

FROM ACTUAL SURVEYS AND OFFICIAL PLANS

BY

George W. and Walter S. Bromley

CIVIL ENGINEERS.

PUBLISHED BY

G. W. BROMLEY and CO.

222 S. Fifth St.

Philadelphia.

1893.

Entered according to Act of Congress, in the year 1893, by G. W. Bromley & Co., in the Office of the Librarian of Congress, at Washington, D. C.

OUTLINE & INDEX
Map of
THE CITY OF
BROOKLYN
KINGS CO. N.Y.

Scale of Miles.

0 ¼ ½ ¾ 1 Mile

N E W Y O R K C I T Y

E A S T R I V E R

N E W Y O R K B A Y

BUTTERMILK CHANNEL

GOWANUS BAY

GOVERNORS ISLAND

ERIE BASIN

ATLANTIC BASIN

HICKS ST. SLIP

HENRY ST. SLIP

U. S. NAVY YARD

WASHINGTON PARK

CITY PARK

GREENWOOD CEMETERY

PROSPECT PARK

N E W U T R E C H T

F L A T B U S H

WILLIAMSBURG

ELEVATED

Note. Red numbe
& boundaries o

EXPLANATIONS.

Represents	Brick Building	
"	Stone "	
"	Wood "	
"	Iron "	
"	Brick "	with Stone Front
"	"	" Iron "
"	"	" Brick "
"	"	covered with Iron
	Brick Stable or Shed	
	Wood " " "	
	Block Number	
25	Lot "	
	Lot Dimension	
	House Number	
	Water Main with size	
dia.	Sewer	
	Streets Opened	
	" Not Opened	
	Elevation of Street in feet & decimal above high tide	
23.5	Rail Roads	
	Old Farm Lines	
J. Rapelje	Owners Names	
Map No. 25	Map numbers, filed in the Registers Office	
(5)	Adjoining Plate	

...mes indicate numbers
...s in the Atlas.

NAVY YARD

EAST RIVER

LONG ISLAND CITY

NEWTOWN

CEMETERY OF THE EVERGREENS

SALEM FIELDS CEMETERY

CYPRESS HILLS CEMETERY

UNION CEM.

FLATLANDS

TOWN OF NEW LOTS

BUSHWICK

UNIONVILLE

PLUMMERS NECK

ATLANTIC OCEAN

Boulevard

Turnpike

Road

Ave

St

Pl

NEWTOWN CREEK

129 131 SENECA 128 130 SCOTT AV.

THE PETER COOPER GLUE FACTORY 127

123 126 GARDNER

ST. 107 ST. 108 ST. 109 ST. 110 ST. 111

Wm. Cooper STEWART

13

94 95 96 97 98

137 AVE. 112

138 ST. 139 140 LOUIS ST.

141 142 ST. 143 Louis Bossert ROSSE LUMBER YARD

145 146 AVE. SCOTT

Cross Austin & Co. TUTTLE COAL POCKETS 243 Cross Austin & Co. LUMBER YARD

Cross Austin & Co. 233 KINDLING WOOD FACTORY C.H. Reynolds & Sons

113 114 115 MILL

C.H. Reynolds & Sons COAL POCKET

CANAL

COAL 116 209 211

LIME AND BRICK COAL 17 210

Chapman & Van Wyck Map No. 849

PLASTER WORKS

KINDLING WOOD FACTORY

80 81 82 83 84 85

AMOS 69 BENNETT 70 PARKER 71 BENTON 72 BULLION 73 Est. MASPETH

GAS WORKS

LINSEED OIL FACTORY

30 31

Gabriel De Bevoise VANDERVOORT Peter Cooper

53 54 55 56 57 58 59 60 61 62 192

THE LAWRENCE CORDAGE WORKS

ORIENT ST. CALHOUN ST. DICKINSON METROPOLITAN

BUSHWICK CHEMICAL WORKS BUSHWICK CHEMICAL WORKS

GRAND ST. BUSHWICK CHEMICAL WORKS

Jos. Cornell & Co. Van Alst John Lullman

MORGAN

14

PART OF WARD 18
CITY OF BROOKLYN.
Scale 200 feet to the inch

SENECA AVE. COVERT FLUSHING NEWTOWN & TURNPIKE

266 262 259 260 263 264 258 257 253 254 255 256 250 251 252 249 247 240 241 242 243 244 239 238 237 236 235 227 228 229 230 231 232 225 226 224 223 222 217 218 219 220 216 215 214 213 212 211 210 209 208 207 206 205 204 198 197 196 195 194 193

AVE. ST. PL.

TUTTLE COAL 45 POCKETS

TANNERY

Nicholas Wyckoff Map No. 433

Jeff. M. Levy Map No. 1009

Est. of John Troutman Map No. 434

RANDOLPH

LONG ISLAND R.R.

C.H. Reynolds & Sons

John G. Jenkins Map No. 826

C.H. Reynolds

C.H. Reynolds & Sons COAL POCKETS

MASONS MATERIALS

Abraham Vanderveer

JOHNSON INGRAHAM HARRISON GRATTAN THAMES

KNICKERBOCKER

TEN EYCK MEADOW STAGG SCHOLES MESEROLE MONTROSE

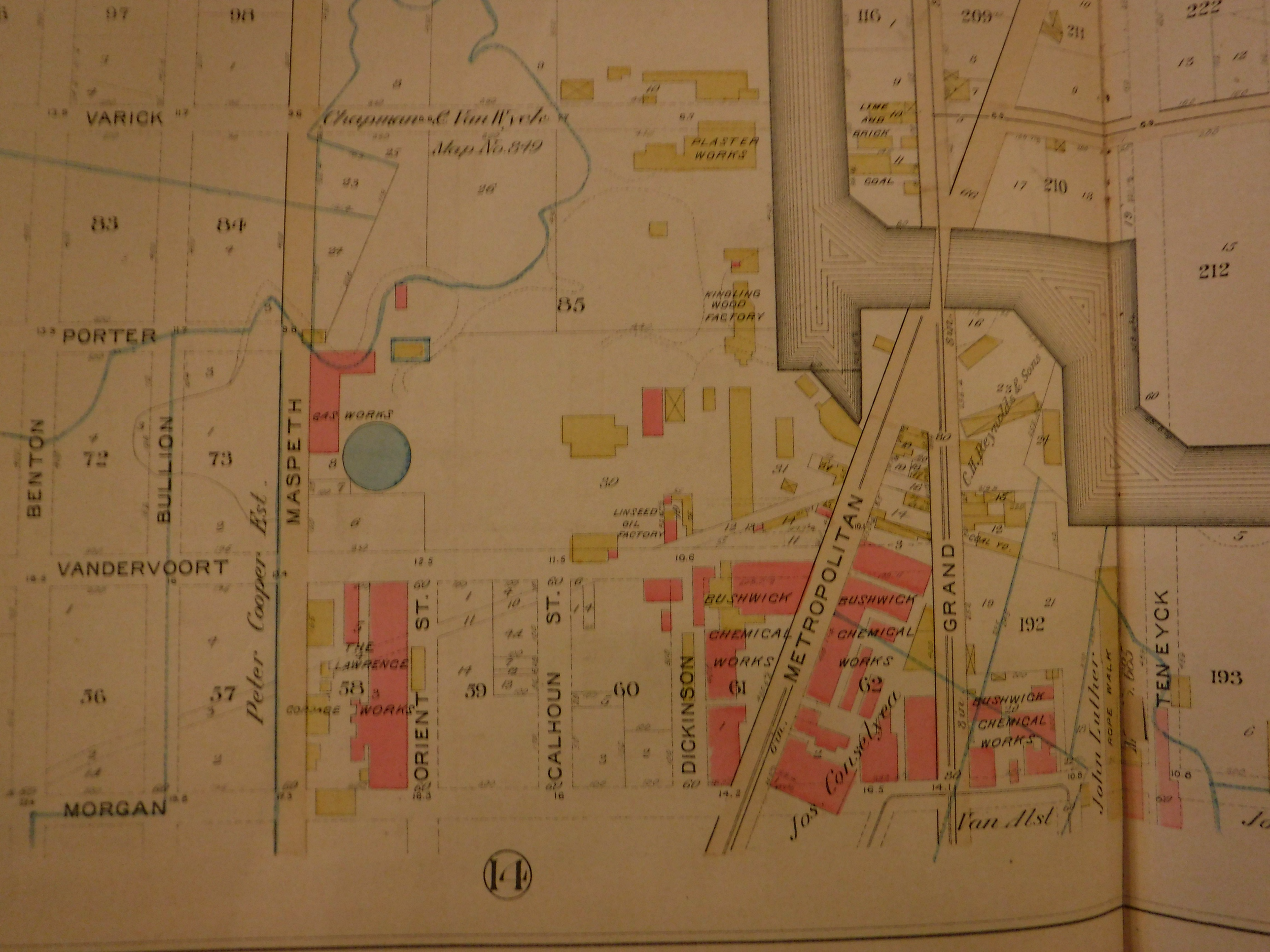
John Luther ROPE WALK

John Schenck

CANAL

17

15



Chapman & Van Wyck
Map No. 849
VARICK
PORTER
VANDERVOORT
MORGAN
BENTON
BULLION
MASPETH
Peter Cooper Est.
ORIENT ST.
CALHOUN ST.
DICKINSON
METROPOLITAN
GRAND
TEN EYCK
John Luther
Van Alst
Jos. Conselyea
PLASTER WORKS
KINDLING WOOD FACTORY
GAS WORKS
LINSEED OIL FACTORY
THE LAWRENCE
CORDAGE WORKS
BUSHWICK CHEMICAL WORKS
LIME AND BRICK
COAL
C.H. Reynolds & Sons
COAL YD.
ROPE WALK
97
98
116
209
211
222
83
84
85
210
212
72
73
30
31
56
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58
59
60
61
62
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ATLAS
OF THE
BROOKLYN
BOROUGH
OF THE
CITY OF NEW YORK
ORIGINALLY KINGS CO.

COMPLETE IN THREE VOLUMES

VOLUME ONE
Containing the first 28 Wards.
VOLUME TWO
FLATBUSH AND NEW UTRECHT, (29th & 30th Wards.)
VOLUME THREE
GRAVESEND AND FLATLANDS, (31st & 32nd Wards.)

Based upon Official Maps and Plans on file in the various City Offices in the Municipal Building and Registers Office, (Hall of Records.)

SUPPLEMENTED BY CAREFUL FIELD MEASUREMENTS AND OBSERVATIONS.

BY AND UNDER THE SUPERVISION OF

HUGO ULLITZ, C.E.

PUBLISHED BY

HYDE & COMPANY,
THE BROOKLYN MAP PUBLISHERS.
97 LIBERTY ST.
1898

ENGRAVED BY BALLIET & VOLK, 27 So 6TH ST. PHILADELPHIA, PA.

PRINTED BY E.P. & L. BESTEIN, N.E. COR. 7TH & DICKINSON STS. PHILADELPHIA, PA.

VOLUME ONE

Entered according to Act of Congress in the year 1898, by HYDE & COMPANY in the Office of the Librarian of Congress at Washington, D.C.

INDEX MAP
TO
VOLUME ONE.
ATLAS OF THE BROOKLYN BOROUGH OF THE CITY OF NEW YORK.

SCALE

1898

28 *Indicate Ward Boundaries and Numbers.*
4 *Indicate Double Page Plate Boundaries and Numbers.*
3 *Kings Co. Land Map Section and Numbers.*

MANHATTAN BOROUGH

EAST RIVER

QUEENS BOROUGH

NEWTOWN

BOROUGH OF JAMAICA

UPPER BAY

GOWANUS BAY

WALLABOUT BAY

UNITED STATES NAVY YARD

Governors Island

BUTTERMILK CHANNEL

FORT GREENE

PROSPECT PARK

LAKE

PARADE GROUND

GREENWOOD CEMETERY

NEW CUT CANAL

FLATBUSH

FLATLANDS

CYPRESS HILLS CEMETERY

CEMETERY OF THE EVERGREENS

Ridgewood Park

JAMAICA BAY

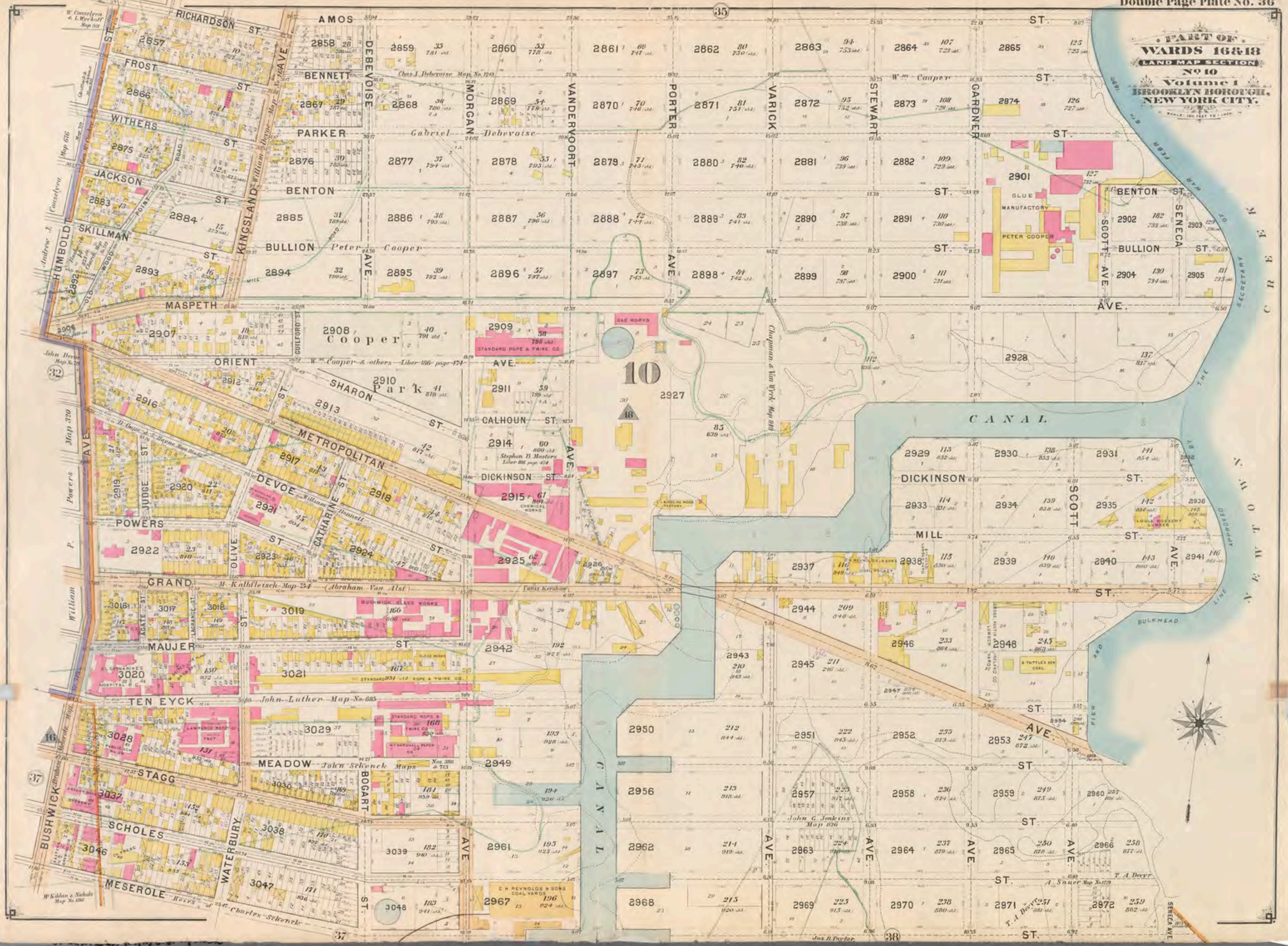
BL. 4588

BL. 4452

BL. 4587

EXPLANATORY

4 *Section Number of Kings Co. Land Map on File at Registers Office.*
955 *Block Number of Kings Co. Land Map on File at Registers Office.*
22 *Ward Numbers.*
106 / 37 A (old) *Block Numbers of Map on File at Assessors Office.*
Lot Numbers and Dimensions in Feet and Inches.
Street Numbers of Residences.
Width of Streets.
Street Elevations.
Marginal Numbers, Refering to adjoining Plates.
Sectional Boundary Line of Kings Co. Land Map.
Block Boundary Line of Kings County Land Map.
Ward Boundary Line.
Hicks & Smith Map No. 279 Original Farm Lines and owners names with Map number.
Brick Houses.
Frame Houses.
Brick Houses with Brown Stone Fronts and various Stone Trimmings.
Frame Houses with Brick Front.
Principal Apartment and Flat Houses.
Frame House with Iron Front.
Stables, Old Buildings and Sheds.
Green Houses.
Asphalt and Macadamized Pavements.
Belgian and Granite Pavements.
Streets Opened.
Streets Unopened.
Sewers and Dimensions.
Water Mains and Dimensions.
Rail Roads.
Hydrants.
Boundary Line for East River Property.
Color indicating the Property of N.Y.&B. Bridge.


PART OF
WARDS 16&18
LAND MAP SECTION
No 10
Volume 1
BROOKLYN BOROUGH,
NEW YORK CITY.
SCALE: 100 FEET TO 1 INCH.
RICHARDSON ST.
AMOS ST.
FROST ST.
BENNETT
WITHERS ST.
PARKER
JACKSON ST.
BENTON ST.
SKILLMAN ST.
BULLION ST.
MASPETH AVE.
ORIENT AVE.
SHARON ST.
CALHOUN ST.
METROPOLITAN
DEVOE
DICKINSON ST.
POWERS ST.
GRAND ST.
MAUJER ST.
TEN EYCK
MEADOW
STAGG
SCHOLES
MESEROLE
HUMBOLDT
KINGSLAND
DEBEVOISE AVE.
MORGAN AVE.
VANDERVOORT AVE.
PORTER AVE.
VARICK
STEWART
GARDNER
SCOTT AVE.
SENECA
BUSHWICK
WATERBURY
BOGART AVE.
CATHARINE ST.
OLIVE
JUDGE
CANAL
CANAL
MILL ST.
GLUE MANUFACTORY
PETER COOPER
GAS WORKS
STANDARD ROPE & TWINE CO.
Cooper
Park
Gabriel Debevoise
Peter Cooper
Chas. J. Debevoise Map No. 1243
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Tunis Kershow
BUSHWICK GLASS WORKS
John Luther Map No. 685
John Schenck Maps
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LOUIS ROSSERT LUMBER
S. TUTTLE'S SON COAL
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Jos. B. Taylor
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Andrew J. Conselyea
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ATLAS
OF
THE BOROUGH OF
BROOKLYN
CITY OF NEW YORK

THE FIRST TWENTY EIGHT WARDS
COMPLETE IN FOUR VOLUMES

FOUR ADDITIONAL VOLUMES FOR THE FOUR NEW WARDS
WILL COMPLETE THE ENTIRE BOROUGH.

VOLUME ONE
EMBRACES SECTIONS 1,2,3 & 4.

VOLUME TWO
EMBRACES SECTIONS 5,6 & 7.

VOLUME THREE
EMBRACES SECTIONS 8,9,10 & 11.

VOLUME FOUR
EMBRACES SECTIONS 12,13 & 14.

NEWLY CONSTRUCTED AND BASED UPON OFFICIAL MAPS AND PLANS ON FILE IN THE MUNICIPAL BUILDING AND REGISTERS OFFICE (HALL OF RECORDS)

SUPPLEMENTED BY
CAREFUL FIELD MEASUREMENTS AND OBSERVATIONS.

BY AND UNDER THE DIRECTION OF
HUGO ULLITZ, C.E.

PUBLISHED BY
E. BELCHER HYDE
97 LIBERTY STREET
BROOKLYN
1904
VOLUME THREE

INDEX TO VOLUME THREE

ATLAS
OF THE

BOROUGH OF BROOKLYN

SECTIONS 8, 9, 10 & 11.
WARDS 13, 14, 15, 16, 17, 18, 19, 27 & 28

CITY OF NEW YORK

SCALE 1000 FEET TO ONE INCH

PUBLISHED BY

E. BELCHER HYDE
97 LIBERTY ST. BROOKLYN BOROUGH

1904



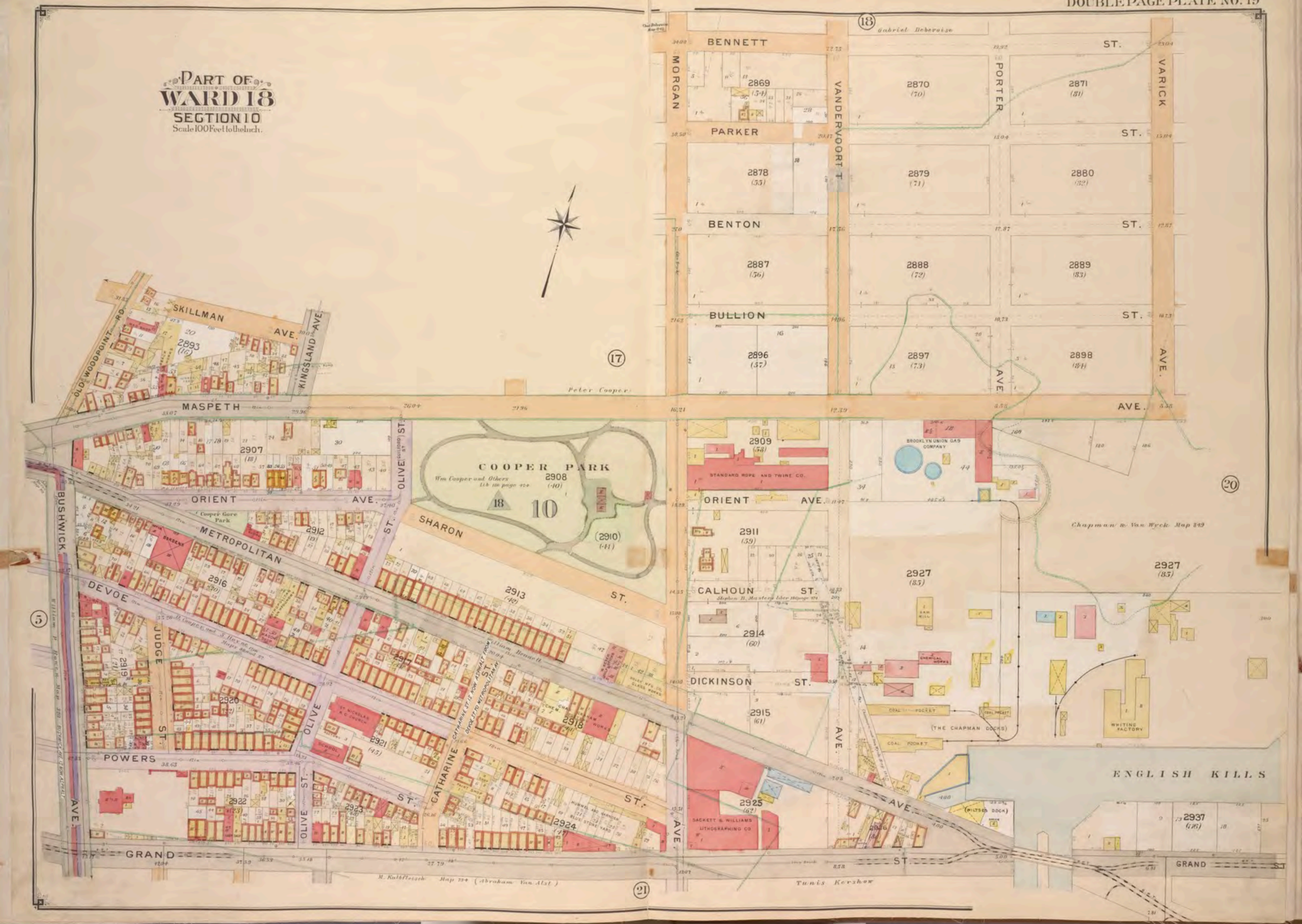
EXPLANATORY

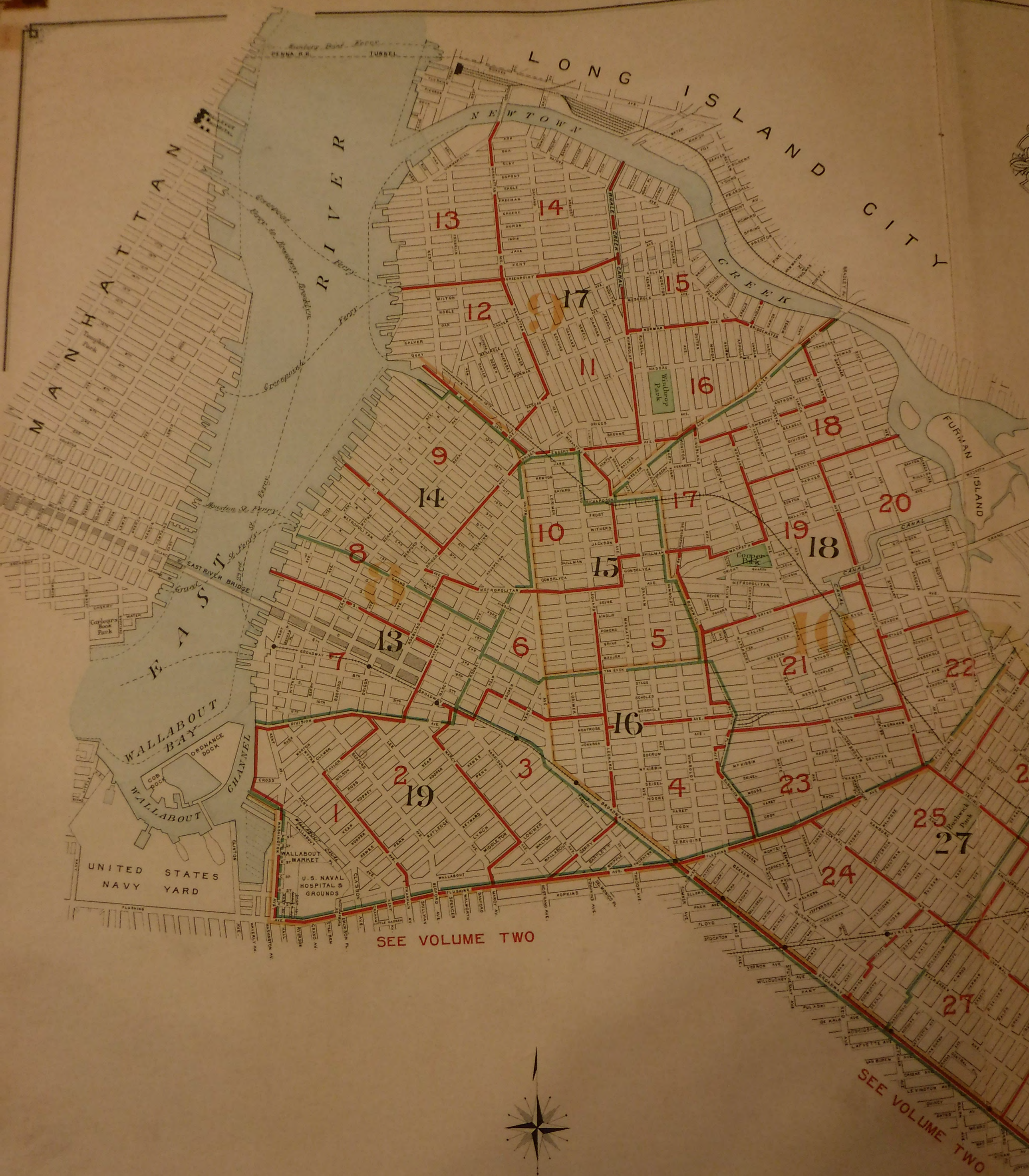
- Brick Building
- Half Brick & half Frame building
- Frame Building with brick or stone foundation
- Frame Building
- Iron Building
- Stone Building
- Frame Building with sheet iron cover
- Brick Building with stone front
- Frame Building with brick front
- Building with store in first floor
- Stable
- Shed or old building
- Green House
- Foundation
- Asphalt Pavement (in few instances tile or brick pavement)
- Macadamized Pavement
- Granite or Belgian Pavement
- Cobble Stone and streets not paved
- Unopened Streets
- Old Street Names
- 6" Water Main and Dimension
- 42" Sewer with manhole and dimension
- Rail Road
- Elevated R.R.
- Trolley Line
- Interborough Rapid Transit Line and Station
- 339 (293) Block Number / Old Block Number
- Old Lot Numbers * / Dimensions and Lot Numbers
- Dimensions of Streets
- Elevations of streets above high tide
- Number of stories and basement
- House Numbers
- Hydrants
- Adjoining Plate Numbers
- Jas. E. Underhill Map No. 33 — Original farm lines and Owners names with Map numbers
- Section number and division line
- Ward number and boundary line

* Referring to the old lot numbers as shown thus: (293) These old numbers are only given where it can be accomplished without confusion by the subsequent lot and tax changes of old lines

EXPLANATORY FOR INDEX MAP

- 9 — Section line and number
- 6 — Indicate double page plate boundaries and numbers
- 7 — Ward number and boundary line


PART OF
WARD 18
SECTION 10
Scale 100 Feet to the Inch.
BENNETT
ST.
MORGAN
VANDERVOORT
PORTER
VARICK
PARKER
ST.
BENTON
ST.
BULLION
ST.
AVE.
AVE.
SKILLMAN
AVE.
KINGSLAND AVE.
OLD WOODPOINT RD.
MASPETH
AVE.
Peter Cooper
COOPER PARK
Wm Cooper and Others
18
10
ORIENT
AVE.
OLIVE ST.
SHARON
ST.
METROPOLITAN
BUSHWICK
DEVOE
JUDGE
ST.
POWERS
ST.
OLIVE
ST.
CATHARINE
ST.
GRAND
ST.
AVE.
CALHOUN
ST.
DICKINSON
ST.
AVE.
ENGLISH KILLS
GRAND
ST.
STANDARD ROPE AND TWINE CO.
BROOKLYN UNION GAS COMPANY
Chapman & Van Wyck Map 349
(THE CHAPMAN DOCKS)
WHITING FACTORY
SACKETT & WILLIAMS LITHOGRAPHING CO.
Tunis Kershow
M. Kalbfleisch Map 734 (Abraham Van Alst)
2869
2870
2871
2878
2879
2880
2887
2888
2889
2896
2897
2898
2907
2908
2909
2910
2911
2912
2913
2914
2915
2916
2917
2918
2919
2920
2921
2922
2923
2924
2925
2926
2927
2937
2893


MANHATTAN
EAST RIVER
LONG ISLAND CITY
NEWTOWN
GREEK
FURMAN ISLAND
Brooklyn Bridge
PENNA R.R. TUNNEL
Greenpoint Ferry
Houston St. Ferry
E. 23rd St. Ferry
EAST RIVER BRIDGE
WALLABOUT BAY
ORDINANCE DOCK
COB DOCK
WALLABOUT CHANNEL
UNITED STATES NAVY YARD
WALLABOUT MARKET
U.S. NAVAL HOSPITAL & GROUNDS
Carlegar's Book Park
Winthrop Park
Cooper Park
Bushwick Park
WHALE CREEK CANAL
CANAL
BROADWAY
METROPOLITAN
GREENPOINT
NORMAN
MESEROLE
MONTROSE
DIVISION
HOPKINS
FLUSHING
WALLABOUT
SEE VOLUME TWO
SEE VOLUME TWO

INDEX TO VOLUME THREE

ATLAS

OF THE

BOROUGH of BROOKLYN

SECTIONS 8, 9, 10 & 11.
WARDS 13, 14, 15, 16, 17, 18, 19, 27 & 28

CITY OF NEW YORK

SCALE 1000 FEET TO ONE INCH

PUBLISHED BY

E. BELCHER HYDE

97 LIBERTY ST. BROOKLYN BOROUGH

1904

The New York Public Library
Call number: Map Div +++ 79-126
Author or Periodical: E Belcher Hyde
Book Title: Atlas of the Borough of Brooklyn, City of New York, Sections 8, 9, 10 & 11, Wards 13, 14, 15, 16, 17, 18, 19, 27 & 28
Date/Vol. No: Vol 2A 1926-1945 1929
Contact and Legible Name and Address Required
Name: Lynn Watts
Address: 79 Depot Hill Road
City: Cobalt CT
School or Business: CEZ
PLEASE PRESS FIRMLY



EXPLANATORY

- Brick Building
- Half brick & half frame building
- Frame Building with brick or stone foundation
- Frame Building
- Iron Building
- Stone Building
- Frame Building with sheet iron cover
- Brick Building with stone front
- Frame Building with brick front
- Building with store in first floor
- Stable
- Shed or old building
- Green House
- Foundation
- Asphalt Pavement, (in few instances also brick pavement)
- Macadamized Pavement
- Granite or Belgian Pavement
- Cobble Stone and streets not paved
- Unopened Streets
- (BUTLER ST.) Old Street Names
- 6" Water Main and Dimension
- 15" Sewer with man hole and dimension
- Rail Road
- Elevated R.R.
- Trolley Line
- Interborough Rapid Transit Line and Station
- 339 (293) Block Number, Old Block Number
- Old Lot Numbers *, Dimensions and Lot Numbers
- Dimensions of Streets
- 30.7 Elevations of streets above high tide
- Number of stories and basement
- House Numbers, old numbers
- Hydrants
- Adjoining Plate Numbers
- (4) (3)
- Jas. E. Underhill Map No. 33 — Original farm lines and Owners names with Map numbers
- 9 — Section number and division line
- 4 — Ward number and boundary line

* Referring to the old lot numbers, as shown thus: 11 These lot numbers are only given where it can be accomplished without confusion by the subsequent lay out or changes of lot lines

EXPLANATORY FOR INDEX MAP

9 — Section line and number

6 — Indicate double page plate boundaries and numbers

7 — Ward number and boundary line

15

NORMAN

NORTH HENRY

MONITOR

KINGSLAND

SUTTON

MORGAN

HAUSMAN

AVE.

HUMBOLDT

RUSSELL

ST.

NASSAU

11

9

WINTHROP

PARK

17

DRIGGS

ENGERT

(VAN PELT AV.)

AVE.

MEEKER

LOMBARDY

ANTHONY

2654 (170)

2655 (181)

2656 (182)

2657 (183)

2658 (184)

2659 (191)

2660 (192)

2661 (193)

2686 (226)

2687 (225)

2688 (227)

2689 (232)

2690 (233)

2691 (234)

2692 (237)

2702 (228)

2703 (229)

2704 (230)

2705 (231)

2706 (235)

2707 (236)

2810 (48)

2817 (24)

2818 (49)

AMERICAN RATTAN & REED MFG. CO

TAYLOR & CO IRON FOUNDRY

FACTORY

PUBLIC SCHOOL NO. 10 44

CHURCH

SWEDISH CHURCH

ICE PLANT

B. C. & C. Kingsland Maps S.6 Maps 852 & 1023 (Formerly Peter Wyckoff)

John Mehren Map S.550

PART OF WARDS 17 & 18

SECTION 9 & 10

Scale 100 Feet to the Inch.

PART OF WARD 18
SECTION 10.

Scale 100 Feet to the Inch.



16

MEEKER AVE.

OLD ROAD

2797 (92)

2798 (117)

SCOTT

2799 (132)

TOWNSEND ST.

STEWART

GARDNER

2801 (100)

2802 (118)

2803 (133)

PIER

THOMAS ST.

2807 (101)

2808 (119)

2809 (134)

BULKHEAD LINE

CHERRY ST.

2814 (102)

2815 (120)

2816 (135)

ANTHONY ST.

2822 (103)

2823 (121)

2824 (136)

HIGH WATER LINE

2839 (104)

18 10

2847 (122)

2848 (123)

AVE.

PL.

2846 (105)

2856 (124)

2855 (106)

2865 (125)

2864 (107)

2863 (94)

20

PART OF WARD 18
SECTION 10
Scale 100 Feet to the Inch.



BENNETT
MORGAN
2869
PARKER
2878
(55)
BENTON
2887
(56)
BULLION
2896
(57)
STANDARD ROPE
ORIENT
2911
(59)
CALHOUN
DICKINSON
SKILLMAN AVE.
KINGSLAND AVE.
OLD WOODPOINT RD.
20
2893
(16)
BRICK WORKS
LUMBER YARD
MASPETH
2907
(18)
30
OLIVE (GUILFORD) ST.
ORIENT AVE.
Cooper Gore Park
SHOP
2912
(19)
METROPOLITAN
BORDENS
2916
(20)
METROPOLITAN AVE. BOUNDARY
WAGON SHOP
DEVOE
JUDGE
2919
(21)
2920
(22)
ST.
POWERS
AVE.
ST. NICHOLAS R C CHURCH
RECTORY
SCHOOL
CONVENT
2921
(15)
OLIVE ST.
2922
(23)
GRAND
2923
(14)
ST.
CATHARINE
GATHARINE ST. IS NOW ASPHALT FROM DEVOE ST. TO METROPOLITAN AV.
PAINT SHOP
HUMMEL AND HARNDEN BLUE STONE YARD
2924
(17)
AVE.
SHARON
ST.
2913
(42)
William Bennett
RILEY MFG CO GLASS WORKS
2917
(13)
2918
(41)
CHEM.
GRAHAM
WORKS
COOPER PARK
Wm Cooper and Others
Lib 186 page 474
2908
(40)
18
10
(2910)
(41)
Peter Cooper
17
SACKETT & WILLIAMS LITHOGRAPHING
M. Kalbfleisch Map 754 (Abraham Van Alst)
21

(18)

Gabriel Debevoise

BENNETT

MORGAN

VANDERVOORT T

PORTER

VARICK

ST.

PARKER

ST.

2869

2870
(70)

2871
(81)

2878
(33)

2879
(71)

2880
(82)

BENTON

ST.

2887
(56)

2888
(72)

2889
(83)

BULLION

ST.

2896
(57)

2897
(73)

2898
(84)

AVE.

AVE.

AVE.

2909
(58)

BROOKLYN UNION GAS COMPANY

STANDARD ROPE AND TWINE CO.

ORIENT AVE.

2911
(59)

CALHOUN ST.

Stephen B. Masters liber 186 page 474

2914
(60)

DICKINSON ST.

2915
(61)

2927
(85)

I SAW MILL

I CHEMICAL WORKS

COAL POCKET

COAL POCKET

(THE CHAPMAN DOCKS)

COAL POCKET

Chapman & Van Wyck Map 849

2927
(85)

WHITING FACTORY

AVE.

2925
(62)

SACKETT & WILLIAMS LITHOGRAPHING CO.

2926
(80)

(WILTSES DOCK)

ENGLISH KILLS

2937
(176)

GRAND ST.

Tunis Kershow

(20)

N E W T O W N

2903 (129)
2905 (131)
2902 (128)
2904 (130)
2901 (127)
2874 (126)
2928 (137)
2931 (141)
2930 (138)
2929 (113)
2927 (112)
2873 (108)
2882 (109)
2891 (110)
2900 (111)
2872 (95)
2881 (96)
2890 (97)
2899 (98)

SENECA AVE.
SCOTT AVE.
GARDNER AVE.
STEWART AVE.
VARICK AVE.
MASPETH AVE.

1 ST.
BENTON ST.
BULLION ST.
PARKER ST.

HIGH WATER LINE

PETER COOPER GLUE FACTORY
TANK
POND
POND
VALVOLINE OIL CO.

WILLIS
ENGLISH

18
10

Chapman & Van Wyck Map No. 849

PART OF WARD 18
SECTION 10
Scale 100 Feet to the Inch.

NEWTOWN CREEK

NEWTOWN AVE.

ST.

SENECA AV.

SCOTT AVE.

GARDNER AVE.

STEWART AVE.

VARICK AVE.

DICKINSON ST.

MILL ST.

GRAND ST.

METROPOLITAN AVE.

TEN EYCK ST.

MEADOW ST.

STAGG ST.

SCOTT AV.

2927 2928 (113) 2929 (113) 2930 (138) 2931 (141) 2933 (114) 2934 (139) 2935 (142) 2936 (143) 2937 2938 (115) 2939 (140) 2940 (143) 2941 (146) 2944 (209) 2945 (211) 2946 (233) 2947 (234) 2948 (245) 2951 (222) 2952 (235) 2953 (247) 2954 (246) 2957 (237) 2958 (236) 2959 (249) 2960 (257)

LUMBER YARD

COAL HOIST

SLIGH WATER

S. TUTTLE SON & CO. COAL POCKET

CROSS, AUSTIN & IRELAND LUMBER CO.

CROSS, AUSTIN & IRELAND LUMBER YARD

PLANING MILLS

CANDEE & 2ND HAND BUILDING MATERIAL

OFFICE

C. H. REYNOLDS AND SONS COAL YARD

COAL YARD

FACTORY

B. R. T.

L. I. R. R.

(22)

(21)

PART OF WARDS 16 & 18

SECTION 10

Scale 100 Feet to the Inch.

(19)

FACTORY BUILDINGS

AMERICAN ICE CO.

COAL YARD

BKLYN UNION GAS CO. YARD

2942 (192)

METROPOLITAN AV.

ST.

UVALDE ASPHALT CO.

2943 (210)

PURE OIL CO.

VARICK ST.

MORGAN ST.

OLD FACTORY

TEN EYCK

THE WARREN PAPER MILL

2949 (193)

BASIN (194)

COAL YARD

FURNACE

EASTERN BERRIDEZ ASPHALT CO.

FURNACE

OTTO E. REIMER & CO. MASONS MATERIALS

2961 (195)

HANSELL'S BASIN

ST.

2950 (212)

BASIN

MEADOW

ST.

INTERSTATE PAVING CO.

2956 (213)

ST.

BARBER ASPHALT PAVING CO.

2962 (214)

BASIN

ST.

(20)

2968 (215)

BASIN

ST.

BROOKLYN RAPID TRANSIT STONE YARD

2975 (216)

RAIL ROAD

AVE.

W. V. BURROUGH BUILDING MATERIALS

2981 (198)

AVE.

3029

UNION BAG & PAPER CO.

18

10

GG

3039 (182)

LES

LUMBER YARD

3048 (183)

EROLE

MORGAN AVE. KINGLING WOOD WORKS

3057 (184)

ONTROSE

C. H. REINOLDS & SON COAL POCKET

2967 (196)

EMPIRE BRICK & SUPPLY CO.

BASIN (197)

2974 (197)

ROCKLAND ROCKPORT LIME CO.

J. H. MARNKEN BUILDING MATERIALS

LONG ISLAND (BUSHWICK BRANCH) R.R.

J. T. STORY COAL YARD

AVE.

3066 (185)

2981 (198)

148

143

136

117

118

54" Brick

Abraham Vanderveer

112

54" Brick

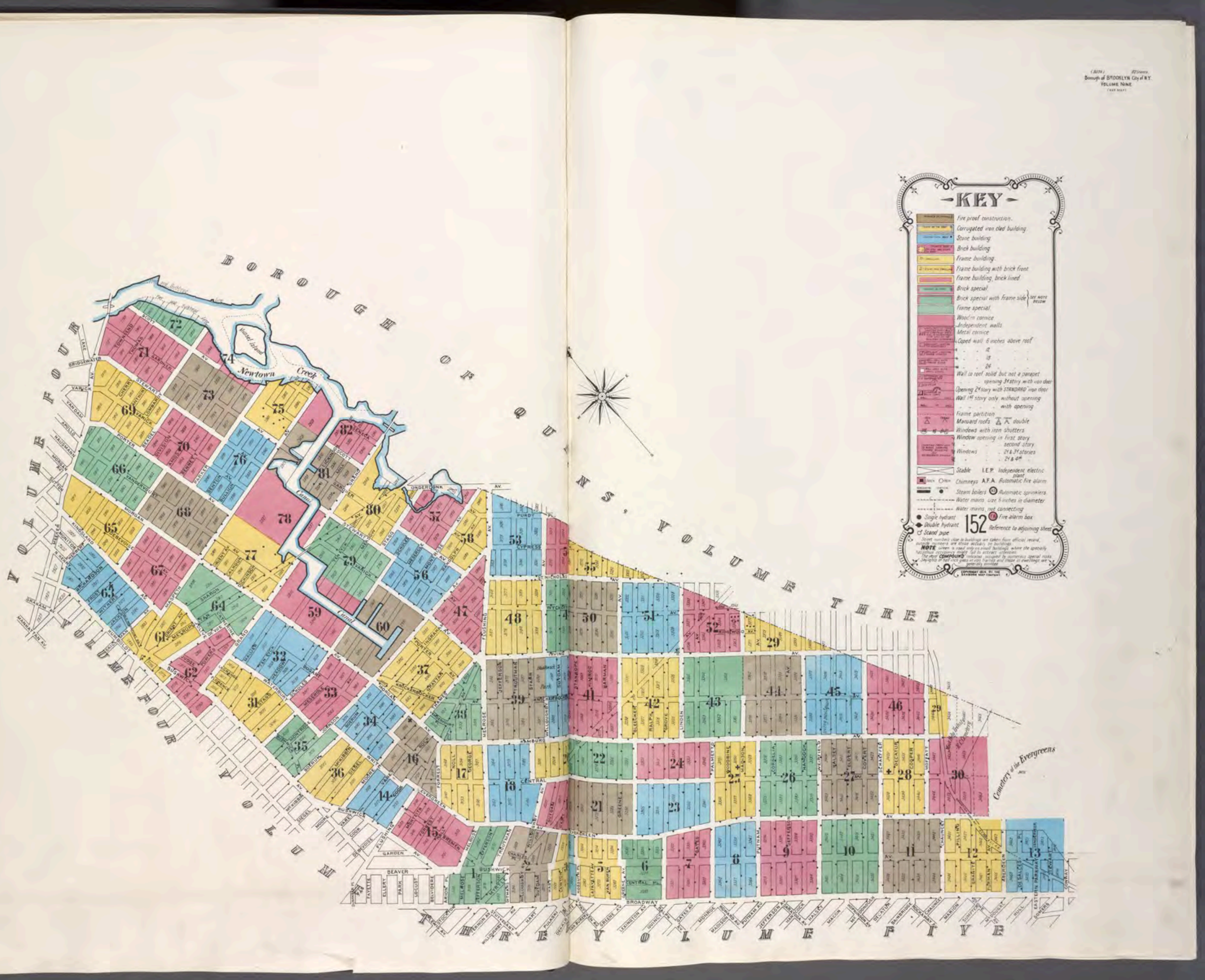
AVE.

John Bentum Map No. 431

(22)

(23)

INSURANCE MAPS
OF
BROOKLYN
NEW YORK
VOLUME NINE
SANBORN MAP COMPANY
1907



Borough of BROOKLYN City of N.Y.
VOLUME NINE
KEY
Fire proof construction.
Corrugated iron clad building.
Stone building
Brick building
Frame building.
Frame building with brick front
Frame building, brick lined
Brick special.
Brick special with frame side
SEE NOTE BELOW
Frame special.
Wooden cornice
Independent walls
Metal cornice
Coped wall 6 inches above roof
12
18
24
Wall to roof solid but not a parapet
opening 3d story with iron door
Opening 2d story with STANDARD iron door
Wall 1st story only without opening
with opening
Frame partition
Mansard roofs
double
Windows with iron shutters
Window opening in first story
second story
Windows
2d & 3d stories
2d & 4th
Stable
I.E.P. Independent electric plant
Chimneys
A.F.A. Automatic fire alarm
Steam boilers
Automatic sprinklers
Water mains size 6 inches in diameter
Water mains, not connecting
Single hydrant
Double hydrant
Stand pipe
152
Fire alarm box
Reference to adjoining sheet
NOTE
COMPOUND
BOROUGH OF QUEENS, VOLUME THREE
VOLUME FOUR
VOLUME FOUR
VOLUME THREE
VOLUME FIVE
Newtown Creek
Canal
Cemetery of the Evergreens

68

PORTER AV.

MASPETH AVE.

AVE.

ORIENT ST.

CALHOUN ST. Not Opened

DICKINSON Not Opened ST.

METROPOLITAN AVE.

GRAND ST.

PRIVATE ROAD

VANDERVOORT AVE.

MORGAN AVE.

SHARON ST.

DEVOE ST.

STANDARD ROPE & TWINE CO
Plant Not Running
Steam Kept Up In One Blr For Fire Pump Only
2 Worthington F Pumps 14" x 7" x 10" & 14" x 8" x 10"
2909
Storage
Vacant
11.
Office
5.
Picker Rm
3
2.
Vacant
4.
Rope Walk Cellar
Rope & Twine Shop 1st
1.
Side Walls Are Brick 8' High & Frame 3' Abv To Eaves
Vacant
10
Not Opened

2911

2914

2915

2925

2926

2927

BROOKLYN UNION GAS CO
Equity Works
2 Davidson F Pumps 7" x 8" x 10"
250 2½" Hose
Purifying Hd
Fire Proof Rf
Generator Hd
Gas Holder
Tar Tank
Coal Shed

J. R. CROMBIE & CO
Storage
Office
Distillery
Grounds Rm 2
Mill Constr
Wood Grinding
Coal Shed
Fire Proof Boiler & Block Making
Storage
Office
Shed (Vacant)
Sand Bin
J. R. Crombie & Co Wood Grinding

JOSEPH A. SOLAN
Saw & Planing Mill
Lumber Shed
Eng
Dyn

A. BUSCH & SONS - BUSHWICK COAL YARD
Coal Shed
Coal Hoist
Bulkhead

JOSEPH BONNERS SONS
Varnish Works
Wash & Storage Shed
Storage

JOHN H. MAHNKEN & CO.
Cement, Lime & Brick
Office

RADER FIRE PROOFING CO
Fire Proof Board & Block Making
Office
Storage
Storage

VAN BERGEN & CO
Brick, Lime & Cement Shed
Office

SACKETT & WILHELMS
Auto. Hd
Mill Constr
Mutual Risk
LITHOGRAPHING & PRINTING CO
Coal Hoist
Mill Constr
EDWIN IVES & SONS
BOOK BINDERS - 3d
IEP

EMPIRE CITY ROOFING CO.
Wash Shed
Wood Shed
Gravel Shed
Office
Wash Shed

Scale 60 Ft. to One Inch.

SACKETT & WILHELM.
2 night watchmen -
Auto. sprinklers throughout brick bldgs supplied from R. tank capy 30 000 gals. on force pump from city main or pumping from reservoir capy 125 000 gals. pump below level of reservoir -- fire hills & fire extgrs throughout.

PORTER AV 60'

76

STEWART AV 60'

8" W. Pipe (Private Main)

MASPETH AVE.

8" W. Pipe (Private Main)

254 292 294 332

BROOKLYN UNION GAS CO

OIL TANKS

OIL TANK (Under)

2927

STANLEY DOGGET
FOUNDRY SUPPLIES

FIRE PROOF FLOORS & COMPOSITION BLOCK ROOFING

J.P. DUFFY CO
STORAGE

MOULDING

SHED

SHED

VACANT

4" W. Pipe (private)

PRIVATE ROAD

81

CHALK PILE

COAL PILE

LUMBER SHED

J. P. DUFFY CO
TILE, SEWER & DRAIN PIPE

PILES

SLIP

Wm KNAPPMANN & CO.
WHITING WORKS

LUMBER PILES

canal

2937

E.D. NEWMAN.
LUMBER YARD

WAGON SHED

LUMBER YARD

C.H. REYNOLDS & SONS.
COAL POCKETS

1117 1127 1129 1139 1143 1145 1149 1151 1159 1163 1167 1179 1181 1187 1197 1199

METROPOLITAN AV.
8" W. Pipe

DRAW BRIDGE

GRAND ST.

GRAND ST.

8" W. Pipe

12" W. Pipe

METROPOLITAN AV
12" W. P. AV

79

Scale 60 Ft. to One Inch.

60 50 40 30 20 10 0 60 120 180

STEWART AV. 60'

ATLAS
OF THE
BOROUGH OF
BROOKLYN
CITY OF NEW YORK

VOLUME ONE

FROM ACTUAL SURVEYS & OFFICIAL PLANS

BY

George W. and Walter S. Bromley
CIVIL ENGINEERS

PUBLISHED BY
G. W. BROMLEY & CO.
147 N. Fifth St.
Philadelphia.
1908.


VOLUME 2


Part of
SECTION 30

ATLAS
OF
THE BOROUGH OF
BROOKLYN
CITY OF NEW YORK

COMPLETE IN THREE VOLUMES

VOLUME ONE
Containing the First 24 Wards.
VOLUME TWO
FLATBUSH AND NEW UTRECHT, 29th & 30th Wards.
VOLUME THREE
GRAVESEND AND FLATLANDS, 31st & 32nd Wards.

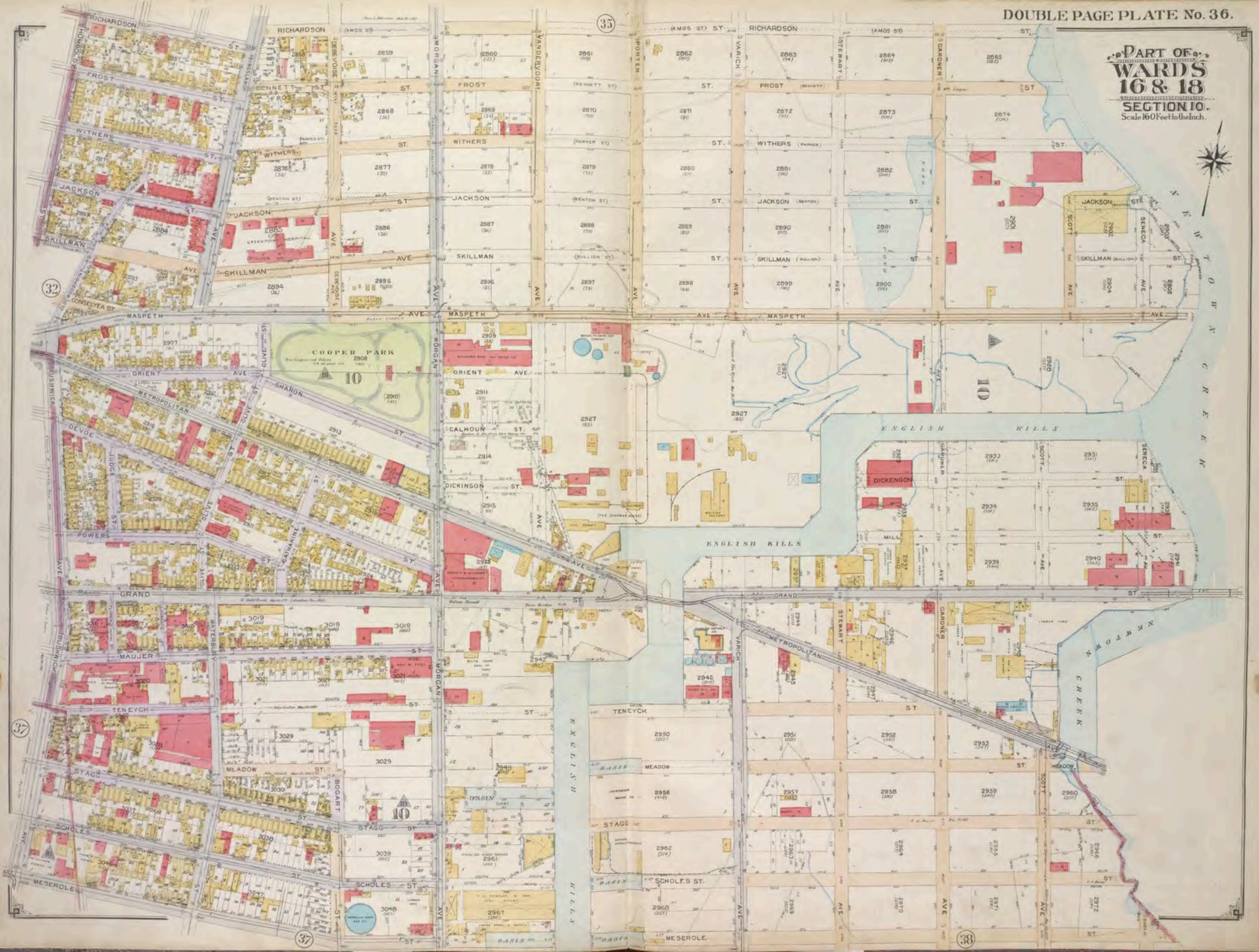
Based upon Official Maps and Plans on file in the various City Offices

SUPPLEMENTED BY ACTUAL FIELD MEASUREMENTS & OBSERVATIONS

BY AND UNDER THE DIRECTION OF
HUGO ULLITZ, C.E.

PUBLISHED BY
E. BELCHER HYDE
37 LIBERTY ST.
BROOKLYN
1 BEEKMAN ST.
MANHATTAN
1903
VOLUME ONE


INDEX TO VOLUME ONE
ATLAS
OF THE
BOROUGH OF BROOKLYN
CITY OF NEW YORK
SECTIONS 1 – 14
WARDS 1 – 28
PUBLISHED BY
E. BELCHER HYDE
97 LIBERTY ST. BROOKLYN
5 BEEKMAN ST. MANHATTAN
1916
EXPLANATORY
EXPLANATORY FOR INDEX MAP
SCALE
UPPER BAY
BUTTERMILK CHANNEL
GOWANUS BAY
GREENWOOD CEMETERY
PROSPECT PARK
INSTITUTE PARK
PARADE GROUND
UNITED STATES NAVY YARD
WALLABOUT BAY
WALLABOUT CHANNEL
CYPRESS HILLS CEMETERY
EVERGREENS CEMETERY
QUEENS
NEWTOWN
JAMAIC


PART OF WARDS 16 & 18
SECTION 10.
Scale 160 Feet to the Inch.
RICHARDSON
FROST
WITHERS
JACKSON
SKILLMAN
MASPETH
ORIENT
CALHOUN
DICKINSON
GRAND
MAUJER
TENEYCK
MEADOW
STAGG
SCHOLES
MESEROLE
COOPER PARK
ENGLISH KILLS
NEWTOWN CREEK
MORGAN
VANDERVOORT
PORTER
VARICK
STEWART
GARDNER
SCOTT
SENECA
DEBEVOISE
BUSHWICK
METROPOLITAN
DEVOE
POWERS
CATHARINE
WATERBURY
BOGART
MILL
BASIN
10
32
35
37
38

DESK ATLAS

OF THE

BOROUGH OF

BROOKLYN

CITY OF NEW YORK

VOLUME TWO

COMPLETE IN FOUR VOLUMES

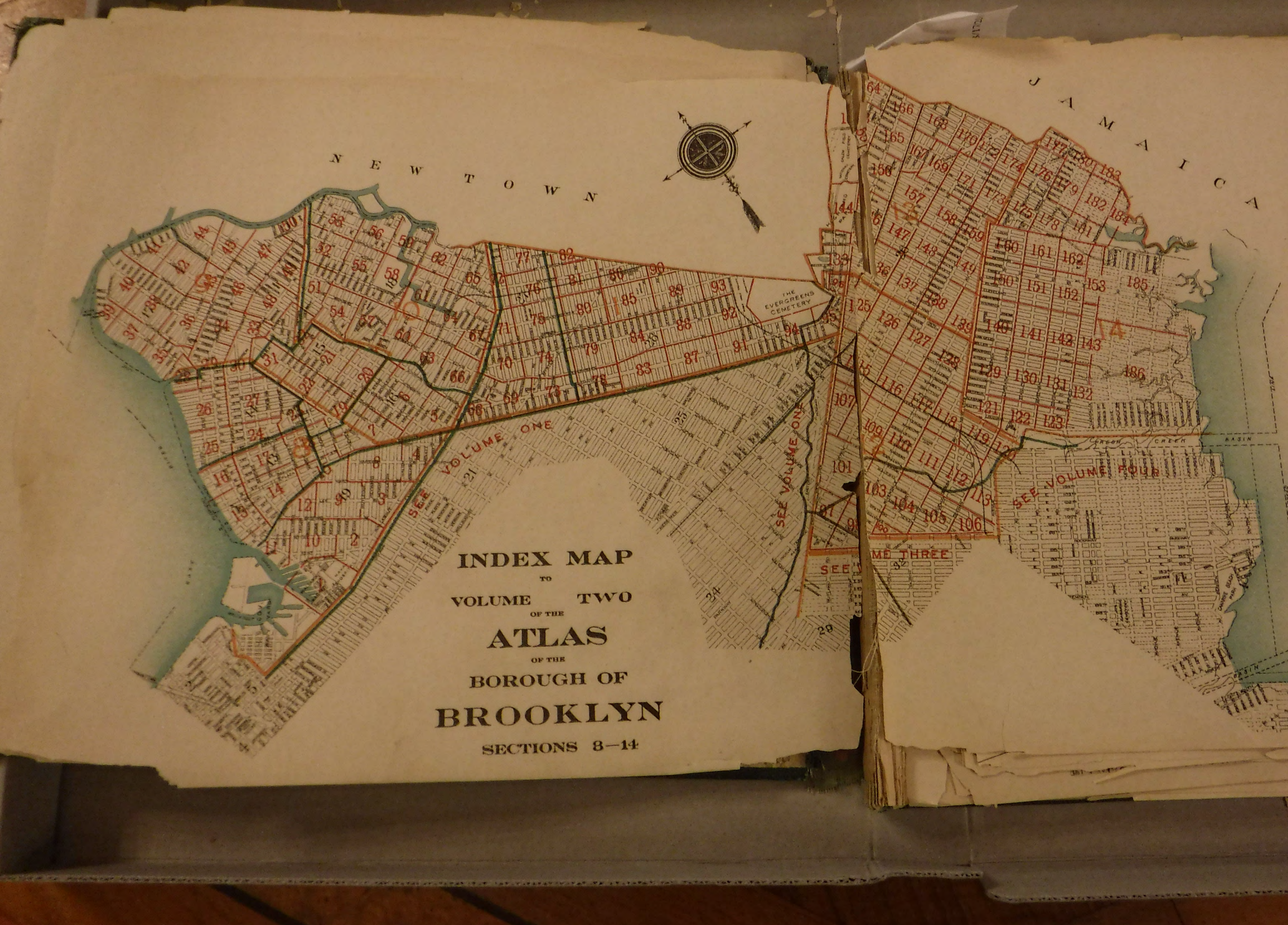
Volume One . . . Sections 1-7 Volume Two . . Sections 8-14
Volume Three . Sections 15-19 Volume Four . . Sections 20-25

PUBLISHED BY

E. BELCHER HYDE, INC.

BROOKLYN: 97 LIBERTY STREET
MANHATTAN: 5 BEEKMAN STREET

1921



INDEX MAP

TO

VOLUME TWO

OF THE

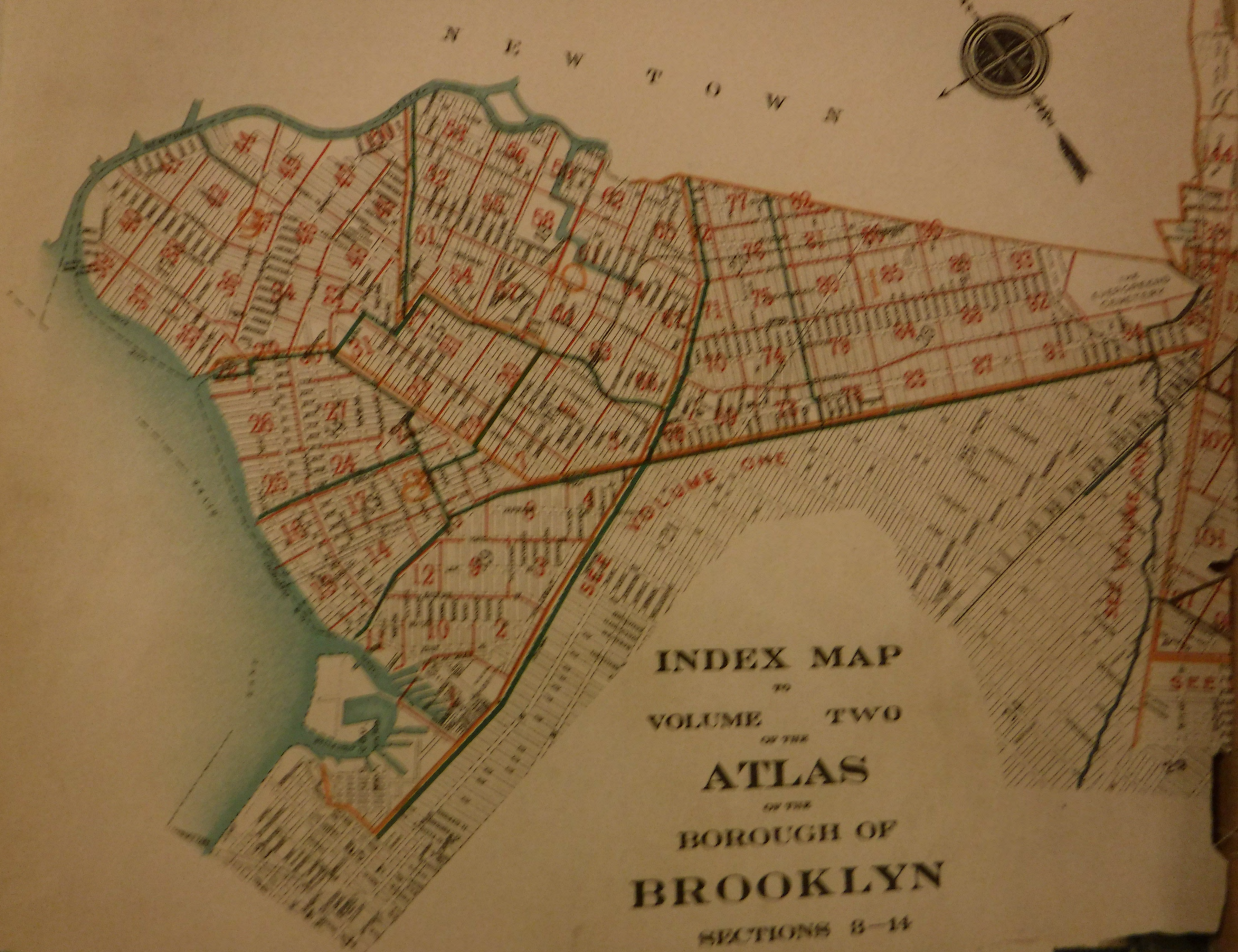
ATLAS

OF THE

BOROUGH OF

BROOKLYN

SECTIONS 8—14



INDEX MAP
to
VOLUME TWO
of the
ATLAS
of the
BOROUGH OF
BROOKLYN
SECTIONS 3—14



EXPLANATORY

- *Brick Building, also Iron Building.*
- *Half Brick and Half Frame Building.*
- *Frame Building with brick or stone foundation.*
- *Frame Building.*
- *Stucco, Concrete and Stone Building.*
- *Saloon or Hotel with bar.*
- *Building with store in first floor.*
- *Stable.*
- *Shed or old building.*
- *Green House.*
- *Foundation.*
- *Opened Streets.*
- *Unopened Streets.*
- BOND ST. *Old Street Names.*
- 6" *Water Main and Dimension.*
- 15" *Sewer with Dimension.*
- *Railroad.*
- *Elevated Railroad.*
- *Trolley Line.*
- *Subway Station.*
- 124 *Block Number.*
- (226) *Old Block Number.*
- *Dimensions and Lot Numbers.*
- *Dimensions of Streets.*
- 327 *Elevations of streets above high tide.*
- *Number of stories and basement.*
- *House Numbers.*
- *Hydrants.*
- *Jas. E. Underhill, Map No. 33* { Original Owners Farm Names with Map Numbers.
- *Passenger Elevator.*
- *Freight Elevator.*
- *Fireproof Building, steel construction.*
- *Garage.*

3, 6, 9—These numbers on the side of the pages indicate the adjoining plate numbers.

EXPLANATORY FOR INDEX MAP

9 — *Section Line and Number.*

33 — *Indicate Page Boundaries and Numbers.*

3 — *Ward Boundary Line and Numbers*

51 52 54 56 58

RICHARDSON ST (AMOS ST) ST

FROST (BENNETT ST.) ST.

WITHERS (PARKER ST.) ST.

JACKSON (BENTON ST.) ST.

SKILLMAN (BULLION ST.) ST.

MASPETH AVE

MORGAN AVE

VANDERVOORT AVE

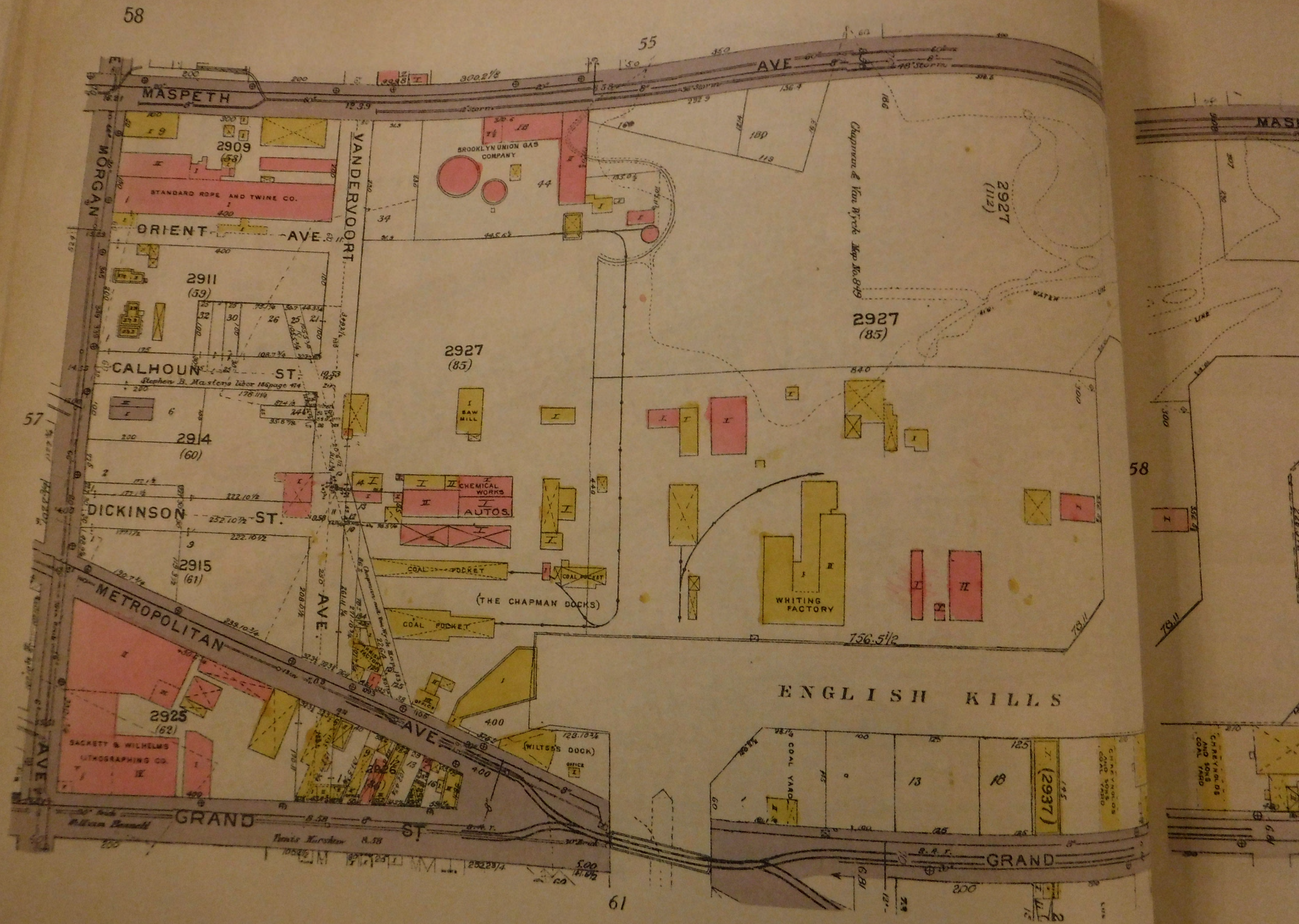
PORTER

VARICK

STEWART

2860 (53)
2861 (69)
2862 (80)
2863 (94)
2869
2870 (70)
2871 (81)
2872 (95)
2878 (55)
2879 (71)
2880 (82)
2881 (96)
2887 (56)
2888 (72)
2889 (83)
2890 (97)
2896 (57)
2897 (73)
2898 (84)
2899 (98)

COOPERAGE
FACTORY
PUMPING STA.


58
55
MASPETH
AVE
MORGAN
VANDERVOORT
2909
(58)
STANDARD ROPE AND TWINE CO.
ORIENT
AVE.
2911
(59)
CALHOUN
ST.
Stephen B. Masters libor 186 page 474
57
2914
(60)
DICKINSON
ST.
2915
(61)
METROPOLITAN
AVE.
2925
(62)
SACKETT & WILHELMS LITHOGRAPHING CO.
AVE
GRAND
ST
Tennis Marshall 8.58
BROOKLYN UNION GAS COMPANY
2927
(85)
SAW MILL
CHEMICAL WORKS
AUTOS.
COAL POCKET
(THE CHAPMAN DOCKS)
COAL POCKET
WHITING FACTORY
Chapman & Van Wyck Map No. 849
2927
(112)
2927
(85)
756.5½
ENGLISH KILLS
(WILTSES DOCK)
OFFICE
COAL YARD
(2937)
GRAND
61
58

4057814

DESK ATLAS
BOROUGH OF
BROOKLYN
CITY OF NEW YORK
VOLUME TWO

COMPLETE IN FOUR VOLUMES

Volume One . . . Sections 1-7 Volume Two . . Sections 8-14
Volume Three . Sections 15-19 Volume Four . . Sections 20-25

PUBLISHED BY

E. BELCHER HYDE MAP CO. INC.

5 BEEKMAN ST., NEW YORK CITY

1929

1929 vol. 2

EXPLANATORY

129 *Block numbers of Tax Department*
Lot numbers and dimensions
± signifies approximate dimension
× signifies that no dimension is given

Adjoining property arrows

House numbers

Width of streets

Adjoining plate numbers

Elevated streets (above high tide)

Numbers stories in buildings

Stucco, stone or concrete buildings

Brick buildings

Frame "

Metal "

Buildings, part brick and part stucco
" " " " " frame
" " stucco " " "

Each dot indicates a store

The buildings sheds or stables

Indicates private garages

Private garage built in dwelling

Paved or improved streets

Streets opened but not improved

Proposed

Sewer lines

Water lines and dimensions

Railroads

Trolley lines

Indicates subway in the street

Elevated lines

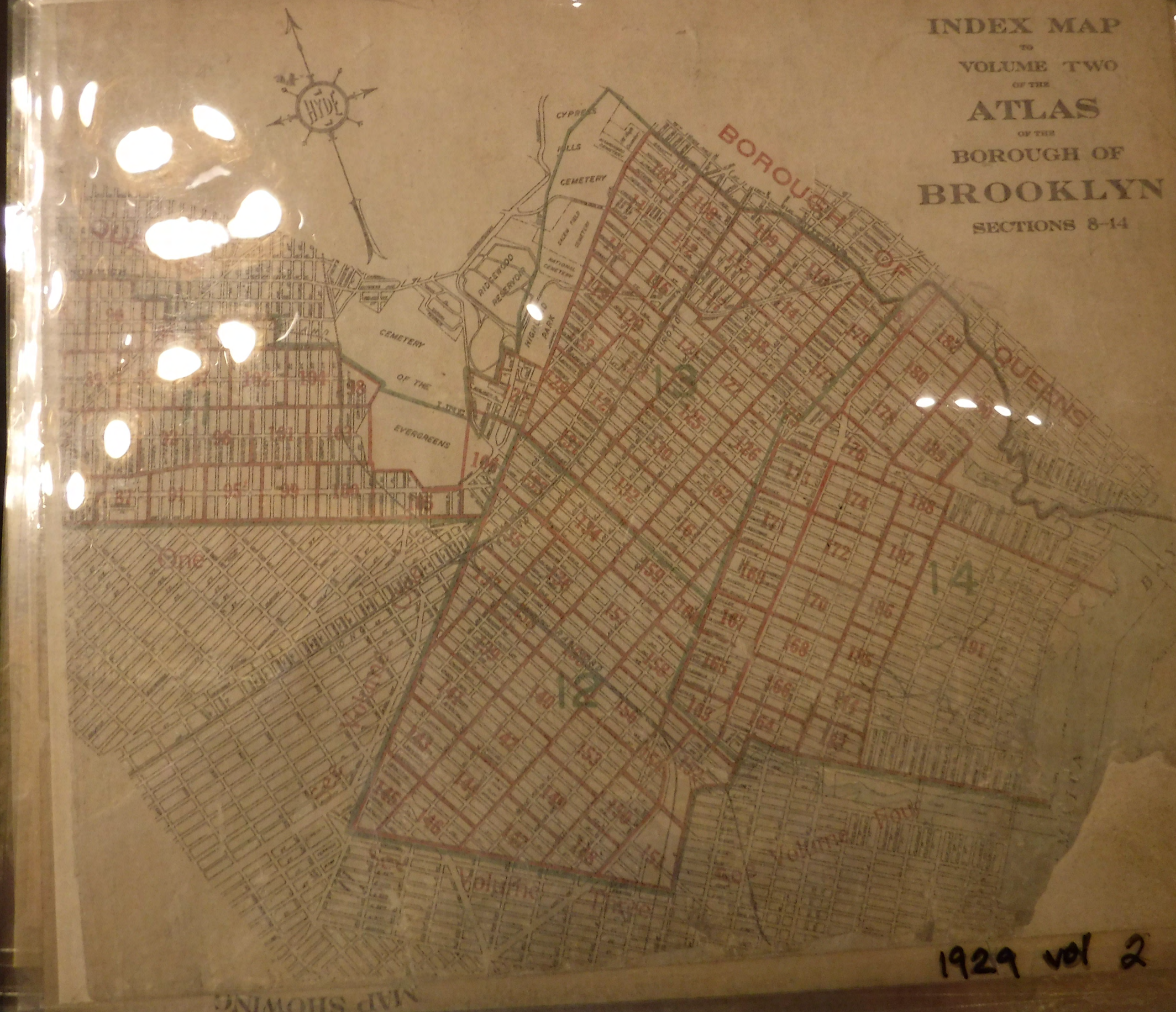


EXPLANATORY FOR INDEX MAP

Indicates *Number and Boundaries*

Indicates *Number and Boundaries*

INDEX MAP
TO
VOLUME TWO
OF THE
ATLAS
OF THE
BOROUGH OF
BROOKLYN
SECTIONS 8-14



MAP SHOWING

1929 vol 2

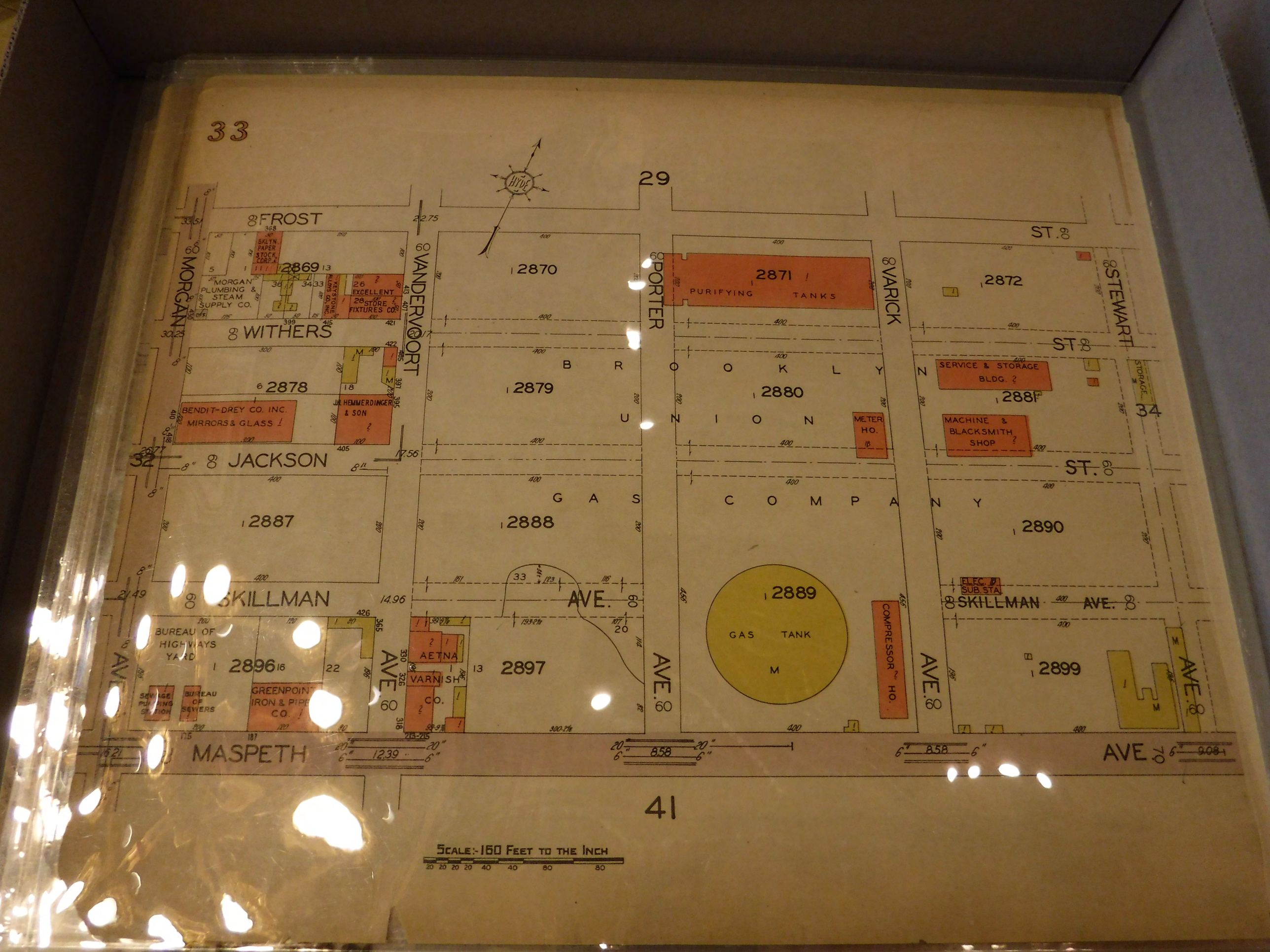
MAP
OF THE
BOROUGH
OF
BROOKLYN
NEW YORK.
E. BELCHER HYDE.
5 BEEKMAN STREET

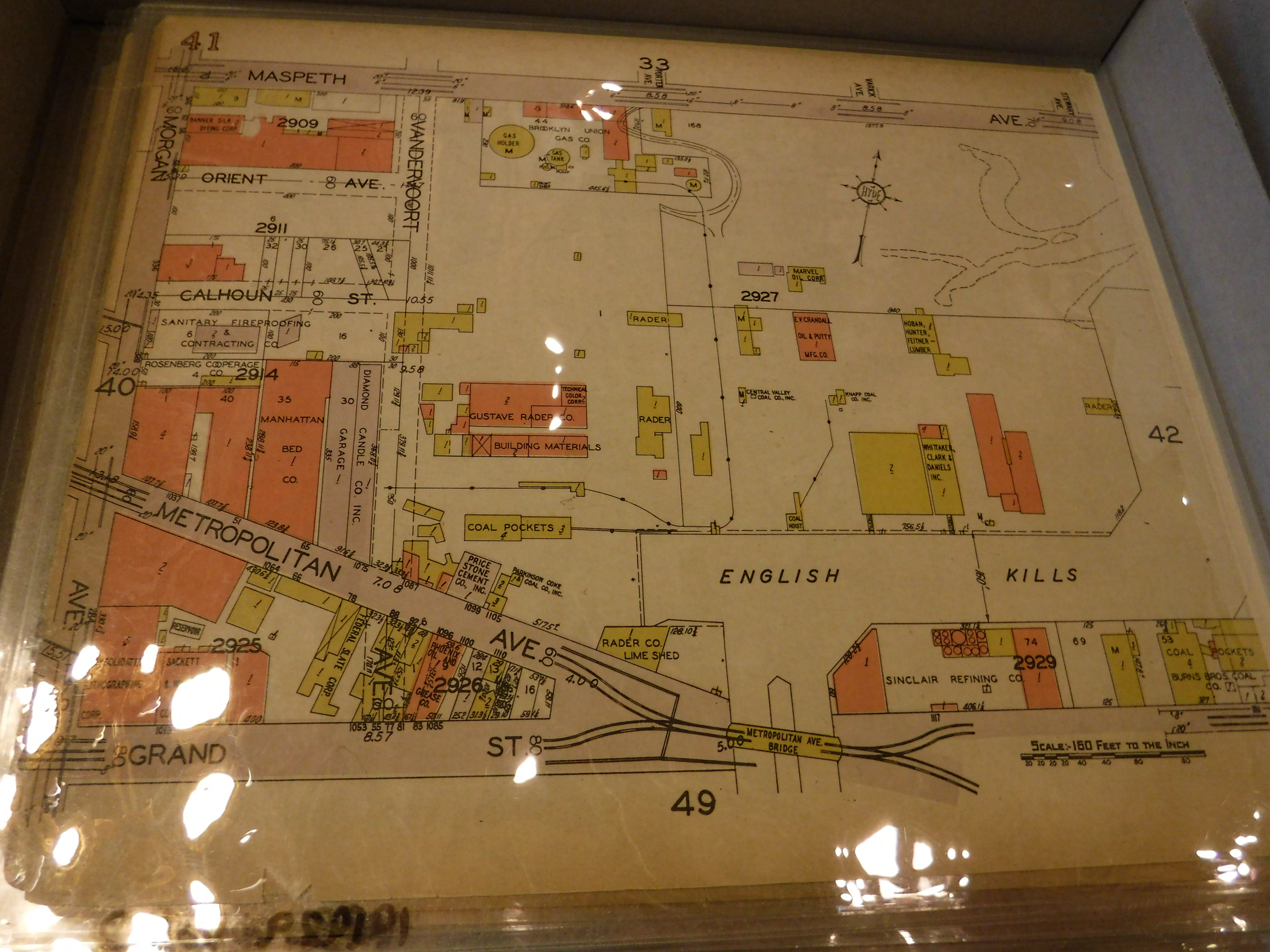
THIS IS ROCKET EDITION
5 CENTS

EXPLANATORY

INDEX MAP
TO
VOLUME TWO
OF THE
ATLAS
OF THE
BOROUGH OF
BROOKLYN
SECTIONS 8-14

1929 vol 2


33
29
FROST
WITHERS
JACKSON
SKILLMAN
MASPETH
AVE.
MORGAN
VANDERVOORT
PORTER
VARICK
STEWART
ST.
BROOKLYN UNION GAS COMPANY
BKLYN. PAPER STOCK CORP.
MORGAN PLUMBING & STEAM SUPPLY CO.
KEYSTONE ALLOYS CO. INC.
EXCELLENT STORE FIXTURES CO.
BENDIT-DREY CO. INC. MIRRORS & GLASS
J.A. HEMMERDINGER & SON
PURIFYING TANKS
METER HO.
SERVICE & STORAGE BLDG.
MACHINE & BLACKSMITH SHOP
STORAGE
GAS TANK
COMPRESSOR HO.
ELEC. SUB. STA.
BUREAU OF HIGHWAYS YARD
SEWAGE PUMPING STATION
BUREAU OF SEWERS
GREENPOINT IRON & PIPE CO.
AETNA VARNISH CO.
2869
2870
2871
2872
2878
2879
2880
2881
2887
2888
2889
2890
2896
2897
2899
32
34
41
SCALE:- 160 FEET TO THE INCH


41
MASPETH
33
PORTER AVE.
VARICK AVE.
STEWART AVE.
AVE.
MORGAN
BANNER SILK DYEING CORP.
2909
ORIENT AVE.
VANDERVOORT
GAS HOLDER
BROOKLYN UNION GAS CO.
GAS TANK
HYDE
2911
CALHOUN ST.
SANITARY FIREPROOFING & CONTRACTING CO.
ROSENBERG COOPERAGE CO.
2914
40
MANHATTAN BED CO.
DIAMOND CANDLE CO. INC.
GARAGE
GUSTAVE RADER CO.
TECHNICAL COLOR CORP.
BUILDING MATERIALS
RADER
MARVEL OIL CORP.
2927
E.V. CRANDALL OIL & PUTTY MFG. CO.
HOBAN, HUNTER, FEITNER - LUMBER
CENTRAL VALLEY COAL CO., INC.
KNAPP COAL CO. INC.
WHITTAKER, CLARK & DANIELS INC.
COAL HOIST
42
COAL POCKETS
METROPOLITAN AVE.
PRICE STONE CEMENT CO., INC.
PARKINSON COKE & COAL CO., INC.
ENGLISH KILLS
RESERVOIR
2925
SACKETT
FEDERAL SLATE CORP.
PHOENIX OIL AND GREASE CO.
2926
RADER CO. LIME SHED
SINCLAIR REFINING CO.
2929
COAL POCKETS
BURNS BROS. COAL CO.
METROPOLITAN AVE. BRIDGE
GRAND ST.
SCALE:- 160 FEET TO THE INCH
49

New York (city). City planning department.

SECTIONAL MAP

OF THE

CITY OF NEW YORK

SHOWING

CITY-OWNED AND OPERATED FACILITIES

SEPTEMBER 1947

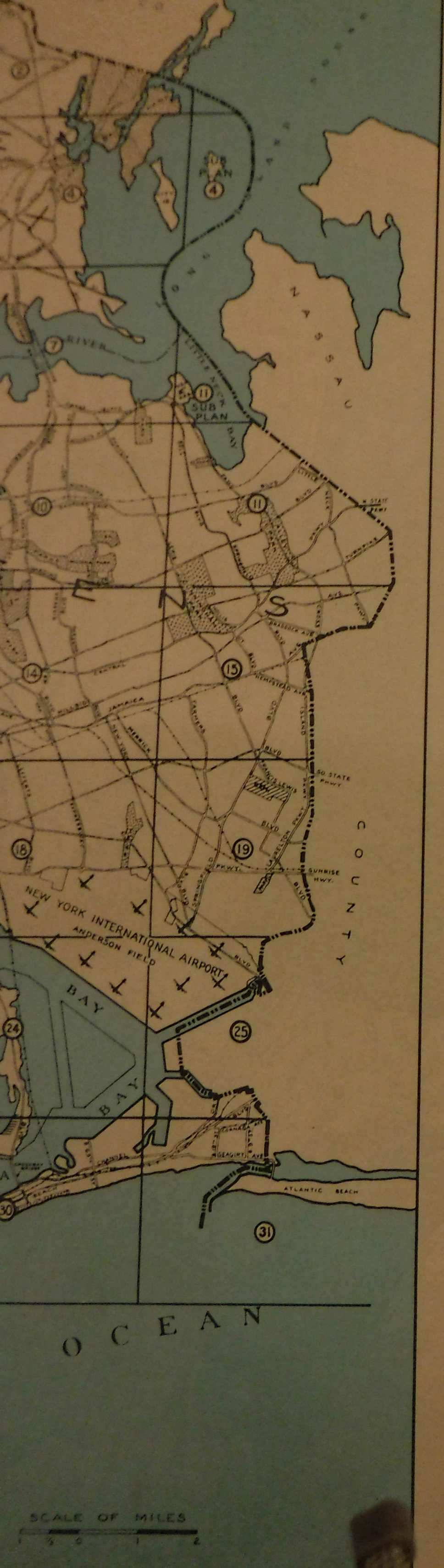
INDEX MAP
FOR
SECTIONAL MAP
OF THE
CITY OF NEW YORK
SHOWING

CITY OWNED AND OPERATED FACILITIES

MAP PREPARED BY
CITY PLANNING COMMISSION
DEPARTMENT OF CITY PLANNING
NEW YORK, N. Y.
September 1947

STATE OF NEW JERSEY
HUDSON RIVER
NEWARK BAY
KILL VAN KULL
UPPER BAY
THE NARROWS
GRAVESEND BAY
LOWER BAY
EAST RIVER
HARLEM RIVER
FLUSHING BAY
JAMAICA BAY
ROCKAWAY INLET
ATLANTIC OCEAN
WESTCHESTER CO.
NASSAU COUNTY
MANHATTAN
BRONX
BROOKLYN
QUEENS
RICHMOND
CENTRAL PARK
PROSPECT PARK
FLUSHING MEADOW PARK
FLOYD BENNETT FIELD
BROOKLYN MARINE TERMINAL
NEW YORK INTERNATIONAL AIRPORT
ANDERSON FIELD
SUB PLAN (30)
SUB PLAN (11)
SCALE OF MILES

CITY OWNED
FACI
LE
Subway Line (IND
Subway Line (IRT
Subway Line (BMT
Elevated Line
Express Station
Local Station
LEGEN



CITY OWNED AND OPERATED

FACILITIES

LEGEND

- Subway Line (IND Div.)
- Subway Line (IRT Div.)
- Subway Line (BMT Div.)
- Elevated Line
- Express Station
- Local Station
- Park and Playground
- LA GUARDIA AIRPORT — Airport
- TRINITY CEM — Cemetery
- Public Housing (N.Y.C.H.A.)

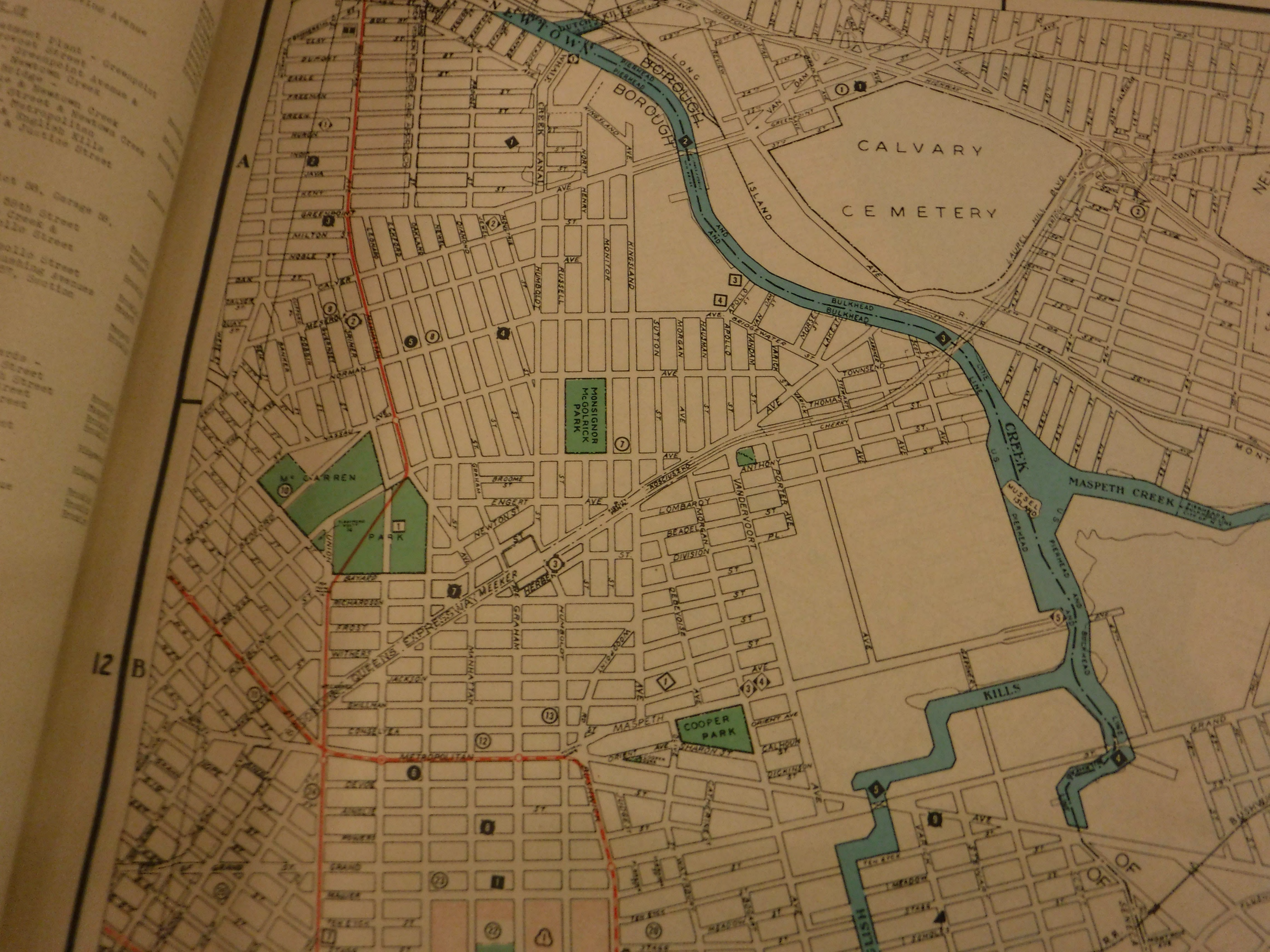
LEGEND FOR SYMBOLS

- Borough Presidents
- Borough and Municipal Offices
- City Hall
- Correction, Department of
- Education, Board of
- Federal Facilities
- Fire Department
- Hall of Records
- Health, Department of
- Higher Education, Board of
- Hospitals, Department of
- Marine and Aviation, Department of
- Markets, Department of
- Museums and Institutions
- New York City Housing Authority
- New York State Facilities
- Parks, Department of
- Police Department
- Port of New York Authority
- Public Libraries
- Public Works, Department of
- Purchase, Department of
- Sanitation, Department of
- Transportation, Board of
- Triborough Bridge and Tunnel Authority
- Water Supply, Gas and Electricity, Department of
- Welfare, Department of

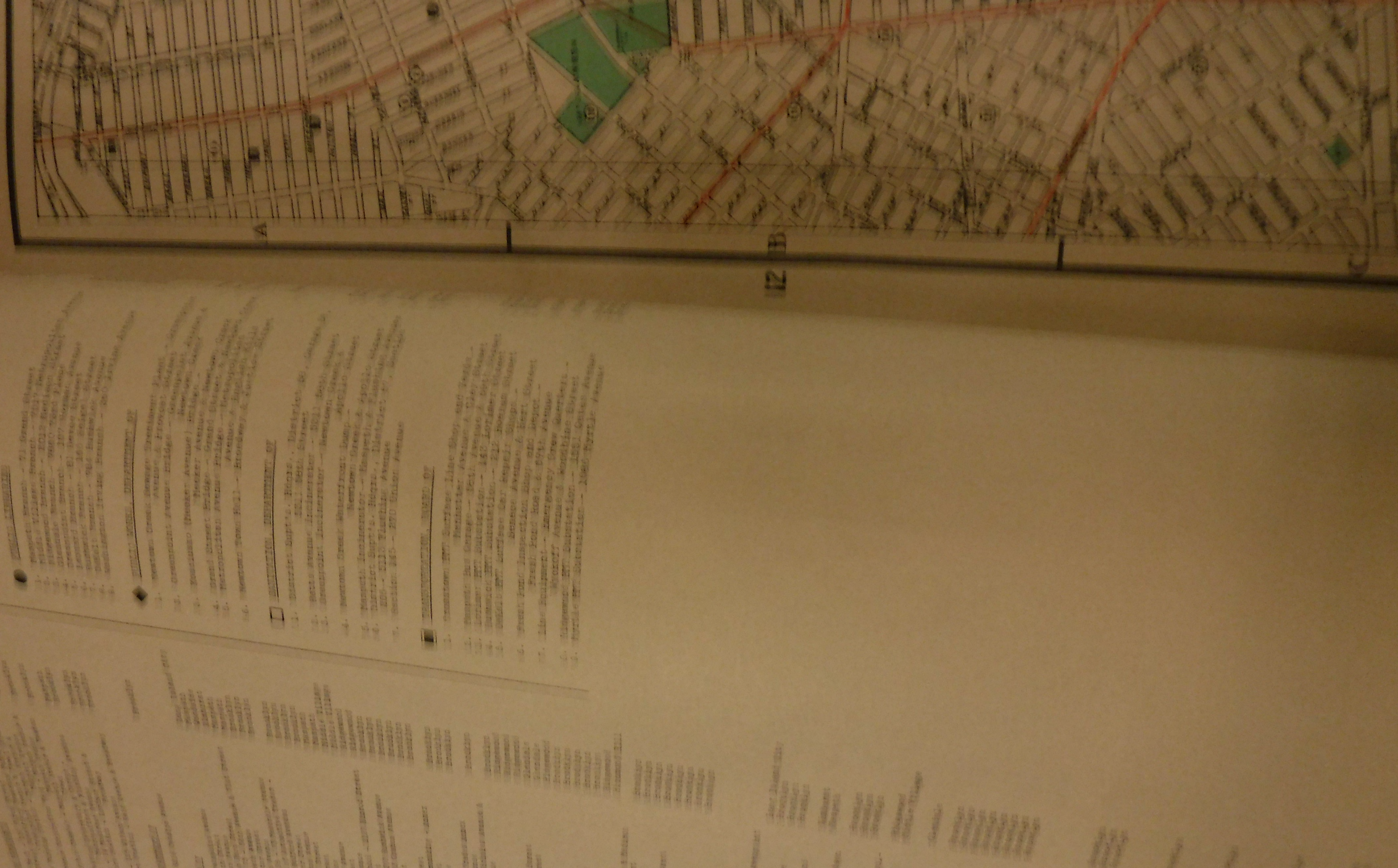
Note

The Facilities of the Various Departments and Agencies are Identified on the Map by the above Legend and Symbols. The Number within the Symbol Refers to the Listing of Facilities under Department or Agency Classification which Appears on the Reference Sheet Adjoining Each Sectional Map.


13
CALVARY CEMETERY
NEW CALVARY CEMETERY
MT. ZION CEMETERY
MASPETH CREEK
MOUNT OLIVET CEMETERY
JUNIPER VALLEY PARK
LUTHERAN CEMETERY
ST. JOHN'S CEMETERY
LUTHERAN CEMETERY
AHAWITH CHESED CEMETERY
LINDEN HILL CEMETERY
BUSHWICK PARK
COOPER PARK
QUEENS
BROOKLYN
CYPRESS HILLS CEMETERY
MT. CARMEL CEMETERY
MT. NEBOH CEMETERY
BETH-EL CEMETERY
MACHPELAH CEMETERY
UNION FIELD CEMETERY
MT. CARMEL CEMETERY
CEMETERY OF THE EVERGREENS
CITY PLANNING COMMISSION
DEPARTMENT OF CITY PLANNING
DECEMBER 31, 1945



NEWTOWN
BOROUGH
BOROUGH
CALVARY
CEMETERY
MONSIGNOR McGOLRICK PARK
McCARREN
PARK
COOPER PARK
MASPETH CREEK
KILLS
CREEK
MUSSEL ISLAND
BULKHEAD
PIERHEAD
LONG
ISLAND
CREEK CANAL
KINGSLAND
MONITOR
RUSSELL
HUMBOLDT
SUTTON
MORGAN
HAUSMAN
APOLLO
VANDAM
VARICK
TOWNSEND
THOMAS
CHERRY
ANTHONY
PORTER
VANDERVOORT
LOMBARDY
BEADEL
DIVISION
DEBEVOISE
ENGERT
NEWTON ST
BROOME ST
GRAHAM
MANHATTAN
HERBERT
MEEKER
QUEENS EXPRESSWAY
METROPOLITAN
MASPETH
ORIENT AVE
CALHOUN ST
DICKINSON ST
GRAND
MEADOW
12 B
A


A
B

INSURANCE MAPS of

Brooklyn

NEW YORK

VOLUME NINE

PUBLISHED BY THE

Sanborn MAP Company

NEW YORK

1933

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KEY

CORRECTION RECORD

REV'N NO.	DATE OF CORRECTION	ATTACHED BY	DATE ATTACHED	REV'N NO.	DATE OF CORRECTION	ATTACHED BY	DATE ATTACHED
1	4-28-31	H.L. Kelsey	7-13-31	21	3-27-52	Orland	4-7-52
2	4-28-32	H. Lee	6-15-32	22	3/53	Sullivan Co.	8/53
3	4-28-36	H. Lee	6-15-36	23	3-56	Orland	3-12-56
4				24	3-57	Orland	4-1-57
5	2-1			25	3-58	Sullivan Co.	4-1-58
6	2-39	H. Lee	6-15-39	26	3-59	Orland	4-1-59
7	3-41	Hershey	6-15-41	27	3-60	Sullivan County	4-1-60
8	3-41	Humphrey	6-15-41	28	2-61	Mrs.	4-1-61
9	2-42			29	2-62	Orland	4-1-62
10	3-44	H. Lee	6-15-44	30	3-63	Mrs.	4-1-63
11	3-47	Sutherland	6-15-47	31	3-64	Orland	4-1-64
12	4-48	H. Lee	6-15-48	32	1-65	Mrs.	2-65
13	4-50	Sutherland	6-15-50	33			
14	4-51	Sutherland	6-15-51	34			
15	3-52	Sutherland	6-15-52	35	1-67	Mrs. Conway	4-13-67
16	3-53	Sutherland	6-15-53	36	2-70	Mrs. Conway	4-6-70
17	3-54	Sutherland	6-15-54	37	2-70	Mrs. Conway	4-6-70
18	3-55	Sutherland	6-15-55	38			
19	3-56	Sutherland	6-15-56	39	2-76	Mrs. L.	4-1-76
20	3/57	Sutherland	6/15/57	40			

Scale 950 feet to one inch
(Approx.)

VOLHARD'S MAP OF THE BORO. OF BROOKLYN

24 | 27

GRAND

MAUJER

TEN EYCK

MEADOW

STAGG

BOGART

WATERBURY

MORGAN AV.

25 | 51

28

3019

3021

3029 (3029A)

3029 (3029B)

3029 (3029C)

3030

3038

3039

TRIBOND ELECTRIC CO. MFG & ASSEMBLE'G

ATLAS ELEC PRODS CO

GEO LEISENHEIMER CO.

BRASS FOUNDRY

MACH SHOP

TOY MFG

METAL FINISHING

TEXTILE FINISH'G

COSMETICS MFG.

CHROMIUM PLATING

PAINT MFG.

STEAM LAUNDRY

BELLIS WIRE WKS.

IRON PIPE WKS.

PIPE STGE. TRAVELING CRANE

STEEL CABINET MFG.

MAT FACTORY

FOUNDRY

5/13/54

28

33

MORGAN

JULES WEBER INC.
WHOL. GROCERS

FARMERS FEED CO
SPENT GRAIN DRYING

3048

PARKG

CARTON STGE

STGE (IRON)

BOGART

MONSIEUR HENRI WINES LTD

RAW MATLS

WOOD PRODS M'F'G.

WOODWKG

NC. 1964

STGE

METAL W HO

NONCOMB 1953 CONC FL CONC SLAB R.F. STEEL BEAMS & COLS 12"C.B R.F. WALLS

LOADING

3056
(3055B)

BOGART

PARKG

31

N C - 1968
(12"C.B.10"-W.G ABOVE)
H-1-b

PUBLICATION

WEB.

F P - 1949
CONC FR. FLS. & RFS. 8" BR.
CURTAIN WALLS

NC 1970
(C B)
W

JOHNSON

WHITE

26

SCHOLES

MESEROLE

WARE HO

STEEL COLS & GIRDERS

3047

STEEL STGE

METAL STGE

(C.B.)

M.

MACH. SHOP
CONC FL
STEEL GIRDERS ON PIERS

WATERBURY

W.H.O.
STEEL COLS & GIRDERS
2-W.G. SKYLTS

NC 1970
(BR. & C.B.)

LBR. STGE. W

29

33
61
58
2968
2974
VARICK
AV
STEEL STGE
NC 1962
TRAVELING CRANE
ELEC 5 TON
BLEST FURN
IRON PIPE ST'GE.
ENGLISH KILLS
ALBERT PIPE SUPPLY CO. INC.
STGE & SHOP
NC 1968
(1 STY CONC BLK ABV)
H-1-b
STGE
NC 1958
(CONC BLK)
PIPE STGE.
(A.P.S. CO INC.)
99½
PIPE FLANGES
WOOD POSTS
(G.B.S. CORP.)
STEEL PIPE STGE
R. 118 VARICK
METAL STGE.
(IRON)
12 PLASTIC SKYLTS.
(B.M. CO.)
PARK'G
JOHNSON
57
2967
PARK'G.
DUVEEN SOAP CO., INC.
MFG
N.C. - 1967
(C.B.)
G-1-b
GL RAISED 31'
BOILER RM
MFG
OFF
21'
NC - 1963
(12" C.B. TO 15' GL ABV)
G-1-b
CATHOLIC RELIEF SERVICES
OVERSEAS PACKAGING
THRU-OUT
NC - 1963
(C.B. 15' GL ABV)
G-1-b
W.
WRECKED AUTO ST'GE.
CONC PLATE
NC - 1960
(C.B. 15' GL ABV)
G-1-b
CHARLES PFIZER, INC.
THRU-OUT
NC - 1958
(C.B. 15' GL ABV)
W.
(M.R. CORP.)
OFF
LOCKER RM
MORGAN AV.
KNICKERBOCKER AV
34

57

67

GRAND

STEEL DRUM STGE

CIRILLO BROS. FUEL OIL

LOAD'G RACK (RAIL)

SLAG BAGGING

OIL TK

SCRAP METAL YARD

2942

CLIPPSETT STEEL PROD'S INC.

(CLIPPINC)

SCRAP METAL YARD

26 MORGAN AV

SCRAP METAL.

AUTO PAINTG (IN CC)

PREMIUM COAL & OIL CO INC

(40 CO INC)

(P C & O CO)

A

NOMCOMB CONC FL STEEL BEAMS-CONC PLANK R F-ON BL WALL-BRICK WALLS

(P C & O CO)

660,000 GAL FUEL OIL T K UNDER EARTH EMBANKMENT

EARTH EMBANKMENT

F O TKS CAPCY 1,359,000 GALS

EARTH EMBANKMENT

CONC WALL 14' HIGH

DRIV GRAGE CARBONIC GAS STGE 2 W G SKYLTS

STGE 2 W G SKYLTS

SHEET METAL WKS CONC FL WOOD POSTS ON PARTS 6 W G SKYLTS

RAG STGE STEEL TOOLS & BEAMS 6 W G SKYLTS PAINT'D

RAG STGE

M N C-1970 (C B)

M N C-1971 (C B)

FURNACE (BRK)

WALL 15"

186 MORGAN AV

SCALE 60 FT TO ONE INCH

Copyright 1933 by the Sanborn Map Company, Inc.

33

English

(BL 2950)

BLDG MATERIALS

STGE

2950

COLONIAL SAND & STONE CO INC

STEEL MATLS

OFF

58

MEADOW

NOT OPEN

(BL 2956)

2962

(2956)

(BL 2956)

WOOD SHING

STAGE

PILLER

(BL 2956)

(BL 25)

2962

(BL 2962)

LBR STG

See Volume Three

Queens Co.
Kings Co.
Boundary Line
Newtown Creek

69
64
65
67
73
73
RICHARDSON
FROST
WITHERS
JACKSON
SKILLMAN AV. NOT OPENED
MASPETH AV.
VANDERVOORT AV.
MORGAN AV.
IMPASSABLE
BULKHEAD LINE
414 MASPETH
382 MASPETH
412
2860
2969
2878
2887
2896
2928
2927
4886
SEE CARDS
5/7/56
2001
1827
1661
613
1057
1/2 T
1/2 T
1/2 T

67

66

73

MASPETH AV.

2909

2911 (2909)

2914

2914 (2915)

2925

2926

2927

ROYAL YARN DYEING CORP'N

YARN DYEING

SHIPPING

ASSEMB'G

MFG.

STGE

ATLANTIC FOAM PRODS. CORP.

DISTRIBUTORS & FABRICATORS FOAM & FOAMED PRODS

CALHOUN

PURIFIED DOWN PRODUCTS CORP

BILT-RITE BABY CARRIAGE CO. INC

STGE OF BABY CARRIAGE PARTS

LBR STGE "B"

LOFT

FILL'G STA.

PARKING

DRIVEWAY

VANDERVOORT AV. (PRIV.)

NEWTON CREEK

DEVELOPMENT CORP.

NO.1 SALWEN PAPER CO., INC.

NO.2 LACK CARPET CO., INC.

F.P. CONST'N EXCEPT 10" C.B. BR.F. CURT N. WALLS. CONC FR., FL. & R.F. BUILT 1957

F.P. CONST'N. EXCEPT 10" C.B. BR.F. CURT WALLS. CONC FR., FL. & R.F. BUILT 1957

USED VALVE STGE

USED PIPE & VALVE STGE 12" IR CL FENCE ALL SIDES

REWE

EKCO PRODUCTS IMPORT CO.

W HO

SITT & HOWELL INC.

WHOL. FLOOR COVERINGS

WHOL. KNITWEAR

METROPOLITAN AV.

English Kills

68

BROOKLYN, N.Y. VOL. 3

68

73

MASPETH AV.

"NP" MAR. 1958

MORANA OIL CO. INC.

3 OFF

BRANCH MOTOR EXPRESS INC.

4 MOTOR FRT STA

SEA LAND SERVICE INC.

Noncomb. 1958
STEEL FR & JOISTS - CONC FL 1ST.
GYP FL 2ND & RF - 12" C.B. BR. F.
CURT WALLS SUSPD. CEILGS IN OFFS

STEEL TRUSSES

TRUCK SERVICE

PAVED YARD (N.C.D. CORP.)

NEWTOWN CREEK DEVELOPMENT CORP.

STEEL TRUSSES

MOTOR FRT. STA

2927

5 (D.S. INC.)
PUROFIED DOWN PRODUCTS CORP.

F.P. CONSTN EXCEPT 10" C.B. CURT WALLS CONC FR, FL'S & RF BUILT 1967

MISC'L STGE.

PAVED YARD

8" W.P.

REWE (PRIV. ST.)

20 REWE 20 ROWE ST.

67

BINDERCRAFT ENTERPRISES, INC.
MFG. OF LOOSE LEAF BINDERS
7

OFF

ARMA CONTAINER CORP.
CARDBOARD BOX MFG.

OFF 2ND

AIM TRUCKING CORP W

NC. 1958 (P.C. & BR. F. & WALLS & WITH METAL ARV.) G.I.2.

CONSOLIDATED DIST.

GLOBE SILVER CO.
W. HO.
10

NONCOMB 1958 STEEL FR CONC. FL. GYP RF 10" C.B. BR. F. CURT. WALLS & WALLS & WITH METAL SASH & GL. ADV. C & PARTNS

TRUCK BAY

HTR

STGE

IVY HILL RD. (PRIV.)

F.P. CONSTN EXCEPT 10" C.B. CURT WALLS - CONC FR, FL'S & RFS BUILT: 1957

WASTE PAPER R & REWE

COMBUSTIBLES (F.K.)

59

English Kills

58

METROPOLITAN AV.

CONC DRAW BRIDGE

69

See Volume Four - Borough of Brooklyn

MEEKER AV

DRIGGS AV

BROOKLYN-QUEENS CONNECTING HWY.

CHERRY

2810

2811

ANTHONY

2818

2819

LOMBARDY

2835

2836

BEADEL

2842

2843

DIVISION

BANNER YARN DYEING CORP.

2851

MORGAN AV.

VANDERVOORT

PORTER AV.

64

73

BROOKLYN, N.Y. VOL. 3

70

(69)

BRIDGE WATER

STEWART AV

See Volume Four-Bo

MEEKER

VARICK AV

AV

PARK'G

2800

HIDE STGE
CONC FL STEEL COLS & GIRDERS
3-M G SKYLTS

HIDE STGE

HIDE SORTING & STGE
CONC FL STEEL COLS & GIRDERS
3-M G SKYLTS

GT. GARAGE

AUTO REP

W HO - FL COVERINGS NON FIBER

NC 1960 C.B

OFF

PROCESSING

THOMAS

VAN DAM

PORTER AV

IRON WKG

2805
CONT'RS YARD

ELECTRICAL CONT'RS STGE
N.C. 1965
LC 61
G-I-d

TRUCKING WHO
CONC FL WOOD TRUSSED RF
PLAST'D

FORUM

WALK

WEST RAMP

BROOKLYN — QUEENS CONNECTING HWY.
STEEL APPROACH TO KOSCIUSKO BRIDGE
ON CONC. PIERS CONC FL.

EAST RAMP

2806

AV 71

CHERRY UNPAVED

AMERICAN FREIGHTWAYS CO.

OFF

SHOP

PARTS

2812

AUTO SCRAP METAL

STGE

JUNK

ANTHONY

UNPAVED

2813

LARICK AV.

UNPAVED

516 VARICK

STEWART

NOT CUT THRU

69

BRASS FOUNDRY

STGE

DRUM STGE

2820

M.

(C B R F)

ONE M

(C B)

PAPER PRODS. MFG

W. HO

Noncomb. 1960
CONC FL GYP SLAB
RF 8- & 12" C.B WALLS

6-W G SKYLTS

2821

10 W G SKYLTS

W HO

SOAP POWDER Mfg

FREIGHT

LOMBARDY

12" W P

8" W P

73

71

(N)

See Volume 2 Boro of Brooklyn

See Volume 3 Boro of Queens

Newtown Creek

2797

2792
(2798)

2801
VAC & OP

2802

TOWNSEND

THOMAS

NOT OPEN

2807

BROOKLYN — QUEENS
STEEL APPROACH

CONNECTING HWY.
KOSCIUSKO BRIDGE
ON CONC PIERS - CONC FL.

2808

CHERRY

2814

2815

ANTHONY

2822

(2823)

STEWART

GARDNER

SCOTT

72

BROOKLYN N.Y. 72

(72)

2799

TOWNSEND NOT OPEN

BROOKLYN - QUEENS CONNECTING HWY

CONC PIERS 2803

CONC PIERS

KOSCIUSKO STEEL & WIRE

BRIDGE CONC

KINGS QUEENS

CONC PIERS

CONC PIERS

THOMAS NOT OPEN

2809

METAL SMELTING

N.C. - 1968 (C.A.) G1-a

CHERRY NOT OPEN

2816

OFF

MOTOR FRT. STA.

N.C. 1969 (CU.USE) G1-b

ANTHONY NOT OPEN

NC-1965 (CB 15 GL NON) G1b

TRUCK PARK'G

2824

(BL. 2824)

MOTOR FRT. STA.

OFF

LOMBARDY

73

Newtown Creek

Three Boro Bridge

WASHINGTON AV.

BOROUGH OF QUEENS

73

SEE VOLUME THREE

YELLOW COLOR IS OMITTED ON DESIGNATION TRADE AND VERSEGOLD RESIDENTIAL BUILDINGS IN KEEPING WITH CURRENT MAPPING PRACTICE

Newtown Creek

"N"

72

LIQUID NATURAL GAS NO. 1

LIQUID NITROGEN TK.

EARTH DIKE

(B.U.G.CO.)(BL. 2834)

N.C. - 1958 (C.B.BR.F)

W

GARAGE

66

140'

TRUCK REP

THRU-OUT

GARAGE

N.C. - 1958 (C.B.BR.F)

(IRON) W 15'

(IRON) W

2838

SUB-STA.

SERVICE BLDG.

N.C. - 1958 (C.B.BR.F)

16'

ELECTRICAL RM.

F.P. 12' (BR.)

F.P. SHOP 12'

R.367 MASPETH

OIL TKS

367 AV.

(B.U.G.CO.) (BL. 2838)

LIQUID NATURAL GAS NO. 2

LIQUID NITROGEN TK.

EARTH DIKE

UNION POINT GEN'L. W. HO'S.

N.C. - 1950 (BR.)

MASPETH

68

LOMBARDY

71

N.C. (BR.)

2 24'

SUB-STA.

25'

GATE HO. (IRON)

60' W.P.

70

OIL & GAS

GREENPOINT ST'GE. &

VARICK AV.

VARICK (B.U.G.CO.)

(IRON)

OIL TANKS ENCL'D BY CONC DIKES

FP

30' PROPANE TANKS

NO. 1 GAS HOLDER

2837

PORTER AV. W.P.

BEADEL

69

PL. DIVISION

60'

NO. 2 GAS HOLDER

67

VANDERVOORT AV.

IMPASSABLE

69

66

RICHARDSON

FROST

WITHERS

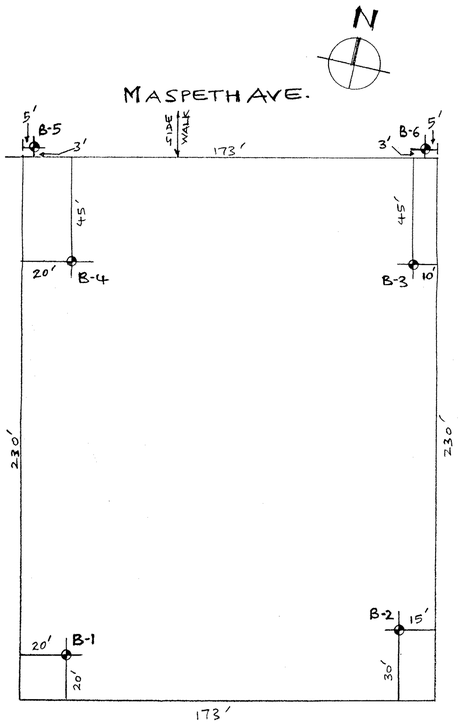
JACKSON

SKILLMAN AV.

Appendix B

Summary of Historical Data

222 Maspeth Previous Borings



BORING B-1

GROUND WATER DEPTH - 7 Feet

SAME AS SIDE WALK ELEVATION

GROUND SURFACE

DEPTH FT.	SPOON BLOWS PER ½ FT.	HOLLOW STEM AUGER	MATERIAL
	5 7		CONCRETE
5'	6 5		
	4 4		
	6 6		SILT,
	7 7		
	6 7		
	1 Push	G.W	SAND,
10'	Push 2		
	3 3		CLAY,
	4 4		
15'	6 8		CINDERS
	7 5		
20'	7 11		GRAVELS
	8 6		
25'	6 5		FILL(11-65)
	6 7		
30'	7 9		GRAY
	8 8		FINE
35'	11 10		SAND
	13 14		SP(8-65)
40'	17 24		CLAYEY
	22 28		SAND
45'	21 29		SC(8-65)
	37 42		
50'	12 14		FINE
	15 15		SAND
			SP(8-65)

BORING B-2

GROUND WATER DEPTH - 7 Feet

SAME AS SIDE WALK ELEVATION

GROUND SURFACE

DEPTH FT.	SPOON BLOWS PER ½ FT.	HOLLOW STEM AUGER	MATERIAL
	6 8		CONCRETE
5'	7 8		
	9 11		SILT,
	9 7		
	5 4		SAND,
	5 6	G.W	
	5 3		CLAY,
10'	3 4		
	7 9		CINDERS,
	7 6		
15'	7 9		GRAVELS
	12 14		
	8 10		FILL(11-65)
20'	18 21		
	6 5		CLAY
25'	5 7		CL(9-65)
	7 7		
30'	10 11		GRAY
	6 6		FINE
35'	7 6		SAND
	7 7		SP(8-65)
40'	8 11		
	9 13		BROWN
45'	16 14		FINE
	11 13		SAND,
50'	17 13		TRACE
	16 21		SILT
	33 37		SP(8-65)

BORING B-3

GROUND WATER DEPTH - 9 Feet

SAME AS SIDE WALK ELEVATION

GROUND SURFACE

DEPTH FT.	SPOON BLOWS PER ½ FT.	HOLLOW STEM AUGER	MATERIAL
	18 21		CONCRETE
5'	28 24		
	25 27		SILT,
	20 19		
	16 18		SAND,
	23 22	G.W	
	29 34		CLAY,
10'	26 23		
	17 25		CINDERS,
	24 19		
	16 15		GRAVELS
15'	12 14		
	2 Push		FILL(11-65)
	Push Push		
20'	2 1		
	Push Push		PEAT
25'	2 2		
	3 2		Pt(11-65)
30'	3 2		
	4 4		
35'	3 4		SILTY
	2 2		SAND
40'	2 2		SM(8-65)
	4 3		
45'	3 3		CLAY
	4 3		
50'	3 3		CL(9-65)
	2 3		

BORING B-3 cont'd

GROUND WATER DEPTH - 9 Feet

SAME AS SIDE WALK ELEVATION

GROUND SURFACE

DEPTH FT.	SPOON BLOWS PER ½ FT.	HOLLOW STEM AUGER	MATERIAL
			CLAY
55'	1 2		
	1 3		CL(9-65)
60'	9 13		
	13 14		
65'	11 14		C/F
	14 16		
70'	7 14		SAND
	19 24		
75'	13 15		SP(7-65)
	19 15		
80'	12 14		
	15 15		
85'			

BORING B-4

GROUND WATER DEPTH - 7 Feet

SAME AS SIDE WALK ELEVATION

GROUND SURFACE

DEPTH FT.	SPOON BLOWS PER ½ FT.	HOLLOW STEM AUGER	MATERIAL
	11 7		CONCRETE
5'	4 3		
	6 5		SILT,
	11 8		
	4 1		SAND,
	3 7		
	6 5		CLAY,
10'	7 5		
	7 6		CINDERS
	4 6		
15'	5 7		
	6 7		GRAVELS
	5 8		
	8 7		
20'	8 9		FILL(11-65)
	7 8		
25'	5 4		
	4 4		GRAY
30'	5 6		FINE
	6 6		SAND
35'	8 9		SP(8-65)
	11 10		
40'	7 9		BROWN
	10 11		
45'	10 11		FINE
	13 16		SAND
50'	14 19		
	17 18		SP(8-65)

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
1	2		3	4
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE.	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE.	CLEAN GRAVELS (LESS THAN 5% PASS NO. 200)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
			GP	POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
		GRAVELS WITH FINES (MORE THAN 12% PASS NO. 200)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES.
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE.	CLEAN SANDS (LESS THAN 5% PASS NO. 200)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
			SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (MORE THAN 12% PASS NO. 200)	SM	SILTY SANDS, SAND-SILT MIXTURES.
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES.
FINE-GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS & CLAYS LIQUID LIMIT IS LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY.
	SILTS & CLAYS LIQUID LIMIT IS GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DISTOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS.
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS.
HIGHLY ORGANIC SOILS			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS.

ALLOWABLE SOIL BEARING PRESSURES
N.Y.C. BUILDING CODE 27-678

CLASS OF MATERIAL	DESCRIPTION	ALLOWABLE BEARING TONS/SQ.FT.
1-65	HARD SOUND ROCK	60
2-65	MEDIUM HARD ROCK	40
3-65	INTERMEDIATE ROCK	20
4-65	SOFT ROCK	8
5-65	HARDPAN	8 - 12
6-65	GRAVEL AND SOILS GW, GP, GM & GC AND GROUPS SW, SP & SM CONTAINING MORE THAN 10 % GRAVEL	4 - 10
7-65	SANDS (OTHER THAN FINE SANDS) (SOIL GROUPS SW SP & SM BUT CONTAINING NO MORE THAN 10 % GRAVEL	3 - 6
8-65	FINE SAND	2 - 4
9-65	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH) HARD	(5 MAX)
	MEDIUM	(2 MAX)
	SOFT	BY TEST
10-65	SILTS AND SILT SOILS (SOIL GROUPS ML & MH) DENSE	3
	MEDIUM	1.5
	LOOSE	BY TEST
11-65	NOMINALLY UNSATISFACTORY BEARING CAPACITY	BY TEST

GUIDE TO COMPACTION RELATED TO SPOON BLOWS PER FOOT

GRAVEL & SAND		SILT & CLAY	
VERY LOOSE	0-4	SOFT	4 OR LESS
LOOSE	5-10	MEDIUM	5 TO 8
MEDIUM	11-30	STIFF	9 TO 16
DENSE	31-50	VERY STIFF	17 TO 32
VERY DENSE	OVER 50	HARD	OVER 32

SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS
SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOILS CLASSIFICATION SYSTEM AND
NYC BUILDING CODE SUBCHAPTER 11, ARTICLE 4
ALL BORING ELEVATIONS ARE REFERENCED TO EXISTING GROUND LEVEL AS ZERO ELEVATION.

"N" STANDARD PENETRATION TEST (2" SPOON, 140lb HAMMER, 30" FALL)

3 9 / 12 5 — N = 21 BLOWS PER FOOT

SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE. TO OBTAIN BLOWS PER FOOT (N) USE THE 2nd & 3rd 6" INCREMENT.

SOIL SAMPLES AND FIELD REPORTS WILL BE DISCARDED AFTER SIX MONTHS
THIS REPORT IS SUBMITTED WITH THE SPECIFIC UNDERSTANDING THAT THE SOLE LIABILITY OF BIG APPLE TESTING, INC., ITS ENGINEERS AND EMPLOYEES FOR ERRORS AND OMISSIONS IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE USE OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE BY THE CLIENT OF THIS DISCLAIMER. THE FEE CHARGED FOR THIS REPORT IS PREDICTED UPON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT. IF THESE TERMS ARE NOT ACCEPTABLE, CLIENT MUST NOTIFY BAT, INC. IN WRITING BY CERTIFY MAIL, RETURN RECEIPT REQUESTED WITHIN FIVE (5) DAYS. BIG APPLE TESTING, INC., ITS ENGINEERS AND EMPLOYEES DO NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR PERSONS OTHER THAN THE CLIENT FOR WHOM THIS WORK WAS DIRECTLY PREPARED AND ANY SUCH PERSON, FIRM OR CORPORATION RELIES ON THIS REPORT AT HIS OWN RISK.

BORING CONTRACTOR'S CERTIFICATION

BIG APPLE TESTING, INC. CERTIFIES AS TO THE ACCURACY OF THE SPOON AND CASING BLOWS AND ELEVATIONS AND METHOD OF BORING.

THE FOLLOWING EQUIPMENT WAS USED:

EQUIPMENT -
SIMCO 2400 ☐ SIMCO 2800 ☐
MOBIL B 57 ☐ MOBIL B 61 ☒
CME 55 ☐ CME 45 ☐ TRIPOD ☐

TYPE OF CORE BARRELS AND DIAMOND BITS:

SIZE	OD	CORE DIAMETERS
☐ AX	1-7/8"	1-1/8"
☐ BX	2-3/8"	1-5/8"
☐ NX	2-15/16"	2-1/8"
☐ AXM	1-7/8"	1-1/8"
☐ NXM	2-15/16"	2-1/8"
☐ A	2"	1-3/8"

WEIGHT OF HAMMERS:
300lbs ON 2-1/2" CASING - 18" DROP
140lbs ON 2" SPOON - 30" DROP
SPOON - SPLIT SAMPLER - 2" O.D. - 1-3/8" I.D. (24" LONG)

WATER NOTED ON PRINT IS ONLY FIRST INDICATION OF WATER.
FOR EXACT RESULTS CALL OUR WELL POINT TEST. **WATER LEVELS MAY FLUCTUATE 5' +/-.**

Driller: Ozzy Osman
Helper: Raul Roman

DRAWING NO. SB4378
SHEET 1 OF 2
Drilling Date(s): 06-06-09, 06-07-09, 06-13-09
Drawing Date: 06-17-09
Drawn By: S.H.

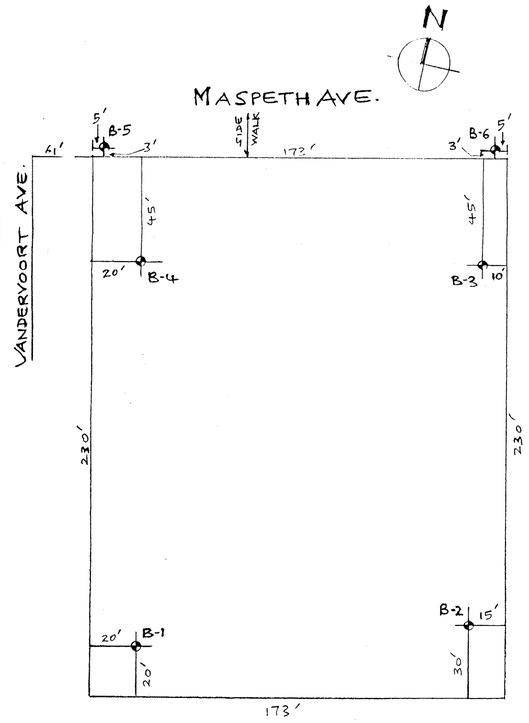
BIG APPLE TESTING, INC.
151-18 6th Road Whitestone NY 11357
Tel 718 767-2900 Fax 718 767-5610

CLIENT: COOPER TANK & WELDING CORP.

PROJECT: 222 MASPETH AVE., BROOKLYN, N.Y

Khalil Jaffarpour, Ph.D., PE.
Seal: STATE OF NEW YORK KHALIL JAFFARPOUR LICENSED PROFESSIONAL ENGINEER NO. 62695

AMLAB TYMING CORP. / 718-886-6666 / 922936



BORING B-5

DEPTH FT.	SPOON BLOWS PER 1/2 FT.	HOLLOW STEM AUGER	MATERIAL
GROUND WATER DEPTH - 7 Feet			
SAME AS SIDE WALK ELEVATION			
GROUND SURFACE			CONCRETE
5'	7 9 5 4 4 3 3 4 5 5		SILT,
10'	6 7 11 12 14 13 15 18 14 12	G.W.	SAND,
15'	Push 1 Push 1 1 2		CLAY
20'	1 1 Push 1		CINDERS
25'	Push 1 4 2		FILL(11-65)
30'	1 2 3 6		
35'	7 9 7 11 8 10		CLAYEY SILT ML(10-65)
40'	4 5 5 5		CLAY
45'	8 7 8 11		CL(9-65)
50'	10 9 9 8		

BORING B-6

DEPTH FT.	SPOON BLOWS PER 1/2 FT.	HOLLOW STEM AUGER	MATERIAL
GROUND WATER DEPTH - 7 Feet			
SAME AS SIDE WALK ELEVATION			
GROUND SURFACE			CONCRETE
5'	13 11 7 6 8 10 7 9 7 6		SILT,
10'	7 5 7 11 17 15 11 14 12 12	G.W.	SAND,
15'	6 4 3 3 2 1		CLAY,
20'	Push 1 4 7		CINDERS
25'	2 1 Push 1		FILL(11-65)
30'	1 2 7 9		
35'	9 8 8 11 12 13		CLAYEY SILT ML(10-65)
40'	10 9 11 12		CLAY
45'	12 11 11 10		CL(9-65)
50'	11 9 11 12		

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
1	2		3	4
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE.	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE.	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
			GP	POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
		GRAVELS WITH APPRECIABLE AMOUNT OF FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES.
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
			SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH APPRECIABLE AMOUNT OF FINES	SM	SILTY SANDS, SAND-SILT MIXTURES.
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE. IS ABOUT THE SMALLEST PARTICLE VISIBLE TO THE NAKED EYE.	SILTS & CLAYS LIQUID LIMIT IS LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY.
	SILTS & CLAYS LIQUID LIMIT IS GRATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DISTOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS.
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS.
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6-65	GRAVEL AND SOILS GW, GP, GM & GC AND GROUPS SW, SP & SM CONTAINING MORE THAN 10 % GRAVEL	4 - 10
7-65	SANDS (OTHER THAN FINE SANDS) (SOIL GROUPS SW SP & SM BUT CONTAINING NO MORE THAN 10 % GRAVEL	3 - 6
8-65	FINE SAND	2 - 4
9-65	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH)	
	HARD	(5 MAX)
	MEDIUM	(2 MAX)
	SOFT	BY TEST
10-65	SILTS AND SILT SOILS (SOIL GROUPS ML & MH)	
	DENSE	3
	MEDIUM	1.5
	LOOSE	BY TEST
11-35	NOMINALLY UNSATISFACTORY BEARING CAPACITY	BY TEST

GUIDE TO COMPACTION RELATED TO SPOON BLOWS PER FOOT

GRAVEL & SAND		SILT & CLAY	
VERY LOOSE	0-4	SOFT	4 OR LESS
LOOSE	5-10	MEDIUM	5 TO 8
MEDIUM	11-30	STIFF	9 TO 18
DENSE	31-50	VERY STIFF	17 TO 32
VERY DENSE	OVER 50	HARD	OVER 32

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(2" SPOON, 140lb HAMMER, 30" FALL)

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SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE. TO OBTAIN BLOWS PER FOOT (N) USE THE 2nd & 3rd 6" INCREMENT.

SOIL SAMPLES AND FIELD REPORTS WILL BE DISCARDED AFTER SIX MONTHS
THIS REPORT IS SUBMITTED WITH THE SPECIFIC UNDERSTANDING THAT THE SOLE LIABILITY OF BIG APPLE TESTING, INC.,ITS ENGINEERS AND EMPLOYEES FOR ERRORS AND OMISSIONS IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE USE OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE BY THE CLIENT OF THIS DISCLAIMER THE FEE CHARGED FOR THIS REPORT IS PREDICTED UPON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT. IF THESE TERMS ARE NOT ACCEPTABLE, CLIENT MUST NOTIFY BAT, INC. IN WRITING BY CERTIFY MAIL, RETURN RECEIPT REQUESTED WITHIN FIVE (5) DAYS. BIG APPLE TESTING, INC., ITS ENGINEERS AND EMPLOYEES DO NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR PERSONS OTHER THAN THE CLIENT FOR WHOM THIS WORK WAS DIRECTLY PREPARED AND ANY SUCH PERSON, FIRM OR CORPORATION RELIES ON THIS REPORT AT HIS OWN RISK.

BORING CONTRACTOR'S CERTIFICATION

BIG APPLE TESTING, INC. CERTIFIES AS TO THE ACCURACY OF THE SPOON AND CASING BLOWS AND ELEVATIONS AND METHOD OF BORING.

THE FOLLOWING EQUIPMENT WAS USED:

EQUIPMENT -
SIMCO 2400 ☐ SIMCO 2800 ☐
MOBIL B 57 ☐ MOBIL B 61 ☒
CME 55 ☐ CME 45 ☐ TRIPOD ☐

TYPE OF CORE BARRELS AND DIAMOND BITS:

SIZE	OD	CORE DIAMETERS
☐ AX	1-7/8"	1-1/8"
☐ BX	2-3/8"	1-5/8"
☐ NX	2-15/16"	2-1/8"
☐ AXM	1-7/8"	1-1/8"
☐ NXM	2-15/16"	2-1/8"
☐ B	2"	1-3/8"

WEIGHT OF HAMMERS:
300lbs ON 2-1/2" CASING - 18" DROP
140lbs ON 2" SPOON - 30" DROP
SPOON - SPLIT SAMPLER - 2" O.D. - 1-3/8" I.D. (24" LONG)

WATER NOTED ON PRINT IS ONLY FIRST INDICATION OF WATER.
FOR EXACT RESULTS CALL OUR WELL POINT TEST. **WATER LEVELS MAY FLUCTUATE 5' +/-.**

Driller: OZZY OSMAN
Helper: RAUL ROMAN

DRAWING NO.
SB4378
SHEET 2 OF 2
Drilling Date(s): 06-06-09, 06-07-09, 06-13-09
Drawing Date: 06-17-09
Drawn By: S.H

BIG APPLE TESTING, INC.

151-18 6th Road Whitestone NY 11357
Tel 718 767-2900 Fax 718 767-5610

CLIENT:
COOPER TANK & WELDING CORP

PROJECT:
222 MASPETH AVE.,
BROOKLYN, N.Y

Khalil Jaffarpour, Ph.D., PE.
Seal: STATE OF NEW YORK — KHALIL JAFFARPOUR — LICENSED PROFESSIONAL ENGINEER — NO. 62695

ARGUS TRADING CORP. 718-854-4666 633903

252 Maspeth Previous Reports

Gannett Fleming

GANNETT FLEMING ENGINEERS, PC
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Toll Free: (800) 249-3337
Fax: (516) 671-3349
www.gannettfleming.com

November 5, 2004
File # 44440.001

David Hillcoat
Cooper Tank and Welding Corp.
215 Moore Street
Brooklyn, New York 11206

Re: Phase I Environmental Site Assessment
254 Maspeth Avenue
Brooklyn, New York 11211

Dear Mr. Hillcoat:

Enclosed are two copies of the Phase I Environmental Site Assessment report for the 254 Maspeth Avenue property. Based on the Phase I ESA performed on the property, the following recognized environmental condition (REC) was identified:

- Surficial soil staining was observed on-site during the site inspection. The stained soil is considered a REC.

Gannett Fleming recommends that a Phase II investigation be performed to investigate potential soil and groundwater contamination due to the soil staining at the subject property.

The following sites present a *de minimis* environmental concern, and are not considered RECs but have the potential to impact the subject property by groundwater migration of off-site contamination. However, the shallow groundwater underlying the subject property has no known potable or other use.

- Six upgradient LTANK sites are listed as tank test failures or tank overfills. These sites lack a NYSDEC closure date.

- Review of the historical sanborn fire insurance maps revealed that the subject property and surrounding properties have a history as being utilized for manufacturing and industrial usage.

Continued...

Gannett Fleming

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May 12, 2005
File # 44440.004

David Hillcoat
Cooper Tank and Welding Corp.
215 Moore Street
Brooklyn, New York 11206

Re: Phase II Environmental Site Investigation
252 Maspeth Avenue
Brooklyn, New York 11211

Dear Mr. Hillcoat:

The purpose of this Environmental Site Investigation is to establish a baseline of potential subsurface contaminants present on-site due to historical use of the property. The scope of work was based upon review of historical information of the surrounding properties, visual inspection of the site and consisted of advancing soil borings, collecting and analyzing soil and groundwater samples. The following letter report summarizes the finding and conclusions based on the activities performed on March 28, 2005 at the subject property, located at 252 Maspeth Avenue, in Brooklyn, NY (Site). A Site Plan with boring locations is provided as Figure 1.

Site Background

GF reviewed historical Sanborn maps and determined that the Site and surrounding area had been used as part of the Brooklyn Union Gas facility from about 1907 through 1965. The Site was noted to operate as a storage facility on the 1968 through 1995 maps. However, the type of storage is not mentioned on any of the maps. The Site was recently used as a solid waste transfer station (Fontana Transfer Station) and is currently vacant. Structures observed on the property include a small vacant office shed, 7 empty roll-off containers, and pieces of large machinery.

Inferred groundwater flow is southerly, discharging into the English Kills. Relative to groundwater flow, boring B-1 was selected as the up-gradient location and boring B-4 as the down-gradient location. Soil boring locations were selected to establish general subsurface conditions on-site and were also contingent upon on-site utility clearance, heavy machinery, and/or equipment storage.

Environmental Site Investigation

Borehole Advancement and Soil Sampling

The use of Geoprobe® technology for soil boring advancement was not considered after reviewing investigative reports performed on surrounding properties. Attempted areas of soil

Continued . . .

boring advancements in the adjacent property encountered refusal reportedly due to the presence of heavy timbers.

On March 28, 2005, Tri-State Drilling advanced four borings (B-1 through B-4) to total depths of approximately 10 to 12 feet below grade surface using a truck mounted Mobil B-57 hollow stem auger drill rig. Groundwater was encountered approximately seven to nine feet below grade. Soil samples were collected from depth interval that demonstrated the most contamination or from the soil interval immediately above the groundwater interface. This was accomplished with the aid of a steel split-spoon core barrel and a 140-pound, down-hole hammer. Prior to sampling, each split-spoon core barrel sampler was opened and Gannett Fleming personnel recorded lithology and field screened soil samples for organic vapors using a photo-ionization detector (PID). The PID readings are summarized in the geologic boring logs provided as Appendix A.

A composite soil sample was made from multiple two-foot intervals due to limited recovery of soil in the split-spoon core barrel sampler. Soil samples were collected and placed in laboratory-supplied glassware, packed in ice, shipped to EcoTest Laboratories and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and 13 Priority Pollutant Metals plus Barium.

Boring B-1
Odors and stains were observed in the samples collected at boring B-1. PID readings varied from 3.5 parts per million (ppm) at the 7-9 foot interval to 5.5 ppm at the 3-5 foot interval. A composite soil sample was obtained from 3 to 7 feet below grade based on the higher PID reading and groundwater encountered at approximately 7 feet below grade.

Boring B-2
Odors and stains were observed in the samples collected at boring B-2. PID readings varied from 0.0 ppm at the 0-2 foot and 8-10 foot intervals to 2.0 ppm at the 2-4 foot interval. A composite soil sample was obtained from 4 to 8 feet below grade based on the PID readings and groundwater encountered at approximately 7.5 feet below grade.

Boring B-3
Odors and stains were observed in the samples collected at boring B-3. PID readings varied from 0.0 ppm at the 0-2 foot and 4-6 foot intervals to 1.3 ppm at the 6-8 foot interval. A composite soil sample was obtained from 2 to 8 feet below grade based on the PID readings and groundwater encountered at approximately 8 feet below grade.

Boring B-4
Odors and stains were observed in the samples collected at boring B-4. PID readings varied from 0.0 ppm at the 0-2 foot, 6-8 foot, and 8-10 foot intervals to 2.5 ppm at the 2-4 foot interval. A composite soil sample was obtained from 2 to 6 feet below grade based on the PID readings.

Continued . . .

Groundwater Sampling

Tri-State Drillers installed new temporary PVC well casing within borings B-1 and B-4 to a depth of approximately 12 feet below grade. The well casing was screened the entire depth to ensure that a representative groundwater sample could be obtained. GF manually collected one groundwater sample from each of these two temporary monitoring wells using dedicated tubing equipped with a check value.

Groundwater samples were placed in laboratory-supplied glassware, packed in ice and shipped to EcoTest Laboratories and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and 13 Priority pollutant metals plus barium.

Findings

Soil

Soil analytical results were compared to the NYSDEC *Technical and Administrative Guidance Memorandum* (TAGM) *4046: Determination of Soil Cleanup Objectives and Levels.*

- VOCs – Several VOCs were detected in each of the four soil samples at concentrations below the NYSDEC TAGM , however; concentrations did not exceed NYSDEC Recommended Soil Cleanup Objectives (RSCOs) with the following exceptions:
  - naphthalene was reported within the soil sample from boring B-3 at a value of 40,000 ppb exceeding the RSCO of 1300 ppb;
  - M+P xylene was reported within the soil sample from boring B-4 at a value of 1300 ppb exceeding the RSCO of 1200 ppb.

- SVOCs – The analyzed list of SVOCs were detected in all four soil samples with the exception of acenapthylene within each of the four soil samples and 2-methylnapthalene within borings B-1 and B-2. Concentrations of the detected SVOCs varied with reported values below the laboratory methodology's minimal detection limit (MDL) to above the RSCO values.

- PCBs were not detected in the four analyzed soil samples with the exception of Aroclor 1254 which was reported at concentrations below the NYSDEC TAGM RSCO level of 10,000 ppb.

- Heavy metals – The analyzed list of heavy metals were detected in each of the four analyzed soil samples with the exceptions of antimony, selenium, and thallium which were reported as non-detected in each sample. Concentrations varied with the

Continued . . .



compounds from below the laboratory methodology's MDL to above the RSCO. Beryllium, copper, and zinc exceeded the RSCO in all four samples analyzed. Barium, cadmium, chromium, nickel, and silver were not detected or were detected at concentrations below the RSCO or site background (SB). Lead was detected in the soil samples from all four borings and exceeded the RSCO of 500 ppm at B-3 with a concentration of 700 ppm. Mercury was detected in the soil samples from all four borings and exceeded the RSCO of 0.1 ppm at boring B-1 with a concentration of 0.16 ppm and at boring B-3 with a concentration of 0.34 ppm. Arsenic was detected in the soil samples from all four borings and exceeded the RSCO of 7.5 ppm and SB of 3-12 ppm at B-3 with a concentration of 46 ppm.

Soil analytical results are summarized in Tables 1 through 4 and laboratory analytical data sheets are provided as Appendix B.

Groundwater

Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series guidance values (TOGS).

- VOCs – Acetone and naphthalene were detected within the groundwater sample at B-1 (GW) below the NYSDEC TOGS guidance value. Benzene was detected in the groundwater sample collected from at B-1 (GW) with a concentration of 1 ppb which slightly exceedd the NYSDEC TOGS value of 0.7ppb. 1,2,4 trimethylbenzene, acetone, ethyl benzene, o-xylene, p-isopropyltoluene, and toluene were detected in the groundwater sample from B-4 (GW) below the NYSDEC TOGS values. M+p xylene and naphthalene were detected in the groundwater sample from B-4 (GW) at a concentration of 7.0 ppb and 84 ppb, respectively, exceeding the respective TOGS guidance values of 5.0 ppb and 10.0 ppb. No other VOCs were detected.

- SVOCs – Acenapthene was detected in the groundwater sample from B-1 (GW), and phenanthrene and pyrene were detected in the groundwater sample from B-4 (GW) below the NYSDEC TOGS values. Naphthalene was detected within the groundwater sample at B-4 (GW) at a concentration of 13 ppb slightly exceeding the NYSDEC TOGS guidance value of 10 ppb. No other SVOCs were detected.

- PCBs were not detected in the groundwater sample collected at B-1(GW) or B-4 (GW) with the exception of Aroclor 1260 which was detected in the groundwater sample collected from B-4(GW) at a concentration of 0.09 ppb slightly exceeding the NYSDEC TOGS guidance value of 2.0 ppb.

- Heavy metals were detected in the groundwater samples collected with the exception of antimony, silver, and thallium. Arsenic, barium, beryllium, cadmium, chromium, cooper, lead, mercury, nickel, selenium, and zinc exceeded the NYSDEC TOGS

Continued . . .

- guidance values within the groundwater sample at B-1 (GW). Beryllium and cadmium were not detected at B-4 (GW). However, arsenic, barium, chromium, copper, lead, mercury, nickel, selenium, and zinc exceeded the NYSDEC TOGS guidance values at B-4 (GW).

Groundwater analytical results are summarized in Tables 5 through 8 and laboratory analytical data sheets are provided as Appendix B.

Conclusions

The findings of this site investigation will be used to establish a quality baseline of subsurface conditions on-site prior to Cooper Tank and Welding Inc. obtaining a lease for the Property. The findings of this investigation indicate that the subsurface soil has been impacted potentially by historical site operations and several soil quality parameters exceed the NYSDEC cleanup objectives.

Soil and groundwater quality found on-site are a generalized representation of the historical and industrial use of the property. Several groundwater quality parameters exceed NYSDEC guidance values, however, it was not within this scope of work to determine if historical site activities contributed to this impact. Soil handling and excavation will require proper handling, transport, and disposal procedures as well as proper health and safety protocol. Any direct contact with the groundwater appears remote at present, however, should dewatering activities be planned proper handling, disposal, treatment, health and safety protocol will be required.

If you have any questions or require additional information, please feel free to contact the undersigned.

Very truly yours,

GANNETT FLEMING ENGINEERS, P.C.

IVY HIDALGO-OLBERDING
Project Manager, Environmental Scientist

STEPHEN R. HIX
Director, Environmental Services

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TABLES

TABLE 1

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
VOLATILE ORGANIC COMPOUNDS
IN SOIL

Compound	NYSDEC TAGM	B-1 (3-7)	B-2 (4-8)	B-3 (2-8)	B-4 (2-6)
Date:		3/28/2005	3/28/2005	3/28/2005	3/28/2005
1,1 Dichloroethane	200	<6.7	<6.9	<140	<6.9
1,1 Dichloroethene	400	<6.7	<6.9	<140	<6.9
1,1 Dichloropropene	---	<6.7	<6.9	<140	<6.9
1,2 Dibromoethane	---	<6.7	<6.9	<140	<6.9
1,2 Dichlorobenzene (v)	7900	<6.7	<6.9	<140	<6.9
1,2 Dichloroethane	100	<6.7	<6.9	<140	<6.9
1,2 Dichloropropane	---	<6.7	<6.9	<140	<6.9
1,3 Dichlorobenzene (v)	1600	<6.7	<6.9	<140	<6.9
1,3 Dichloropropane	300	<6.7	<6.9	<140	<6.9
1,4 Dichlorobenzene (v)	8500	29	6.9	<140	29
1,1,1 Trichloroethane	800	<6.7	<6.9	<140	<6.9
1,1,1,2 Tetrachloroethane	---	<6.7	<6.9	<140	<6.9
1,1,2 Trichloroethane	---	<6.7	<6.9	<140	<6.9
1,1,2,2 Tetrachloroethane	600	<6.7	<6.9	<140	<6.9
1,2,3 Trichlorobenzene	---	<6.7	<6.9	<140	<6.9
1,2,3-Trichloropropane	400	<6.7	<6.9	<140	<6.9
1,2,4 Trichlorobenzene (v)	3400	<6.7	6.9	<140	<6.9
1,2,4 Trimethylbenzene	---	160	22	430	400
1,2,4,5 Tetramethylbenzene	---	37	75	<140	54
1,3,5 Trimethylbenzene	3300	59	9.7	200	170
2,2 Dichloropropane	---	<6.7	<6.9	<140	<6.9
2-Chlorotoluene	---	<6.7	<6.9	<140	<6.9
4-Chlorotoluene	---	<6.7	<6.9	<140	<6.9
Acetone	200	<67	<69	<1,400	79
Benzene	60	<6.7	<6.9	<140	9.7
Bromobenzene	600	8	<6.9	<140	<6.9
Bromochloromethane	---	<6.7	<6.9	<140	<6.9
Bromodichloromethane	---	<6.7	<6.9	<140	<6.9
Bromoform	---	<6.7	<6.9	<140	<6.9
Bromomethane	---	<6.7	<6.9	<140	<6.9
cis-1,2-Dichloroethene	250	<6.7	<6.9	<140	<6.9
cis-1,3 Dichloropropene	300	<6.7	<6.9	<140	<6.9
Carbon Tetrachloride	600	<6.7	<6.9	<140	<6.9
Chlorobenzene	1700	<6.7	<6.9	<140	<6.9
Chlorodibromomethane	---	<6.7	<6.9	<140	<6.9

NOTES:

All units are in µg/kg (parts-per-billion)

--- No standard or guidance value available

Values in bold exceed the NYSDEC TAGM Recommended Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation
TAGM - Technical and Administrative Guidance Memorandum #4046

TABLE 1

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
VOLATILE ORGANIC COMPOUNDS
IN SOIL

Compound	NYSDEC TAGM	B-1 (3-7)	B-2 (4-8)	B-3 (2-8)	B-4 (2-6)
Date:		3/28/2005	3/28/2005	3/28/2005	3/28/2005
Chlorodifluoromethane	---	<6.7	<6.9	<140	<6.9
Chloroethane	1900	<6.7	<6.9	<140	<6.9
Chloroform	300	<6.7	<6.9	<140	<6.9
Chloromethane	---	<6.7	<6.9	<140	<6.9
Dibromochloropropane	---	<6.7	<6.9	<140	<6.9
Dibromomethane	---	<6.7	<6.9	<140	<6.9
Dichlorodifluoromethane	---	<6.7	<6.9	<140	<6.9
Ethyl Benzene	5500	81	<6.9	330	460
Freon 113	6000	<6.7	<6.9	<140	<6.9
Hexachlorobutadiene	---	<6.7	<6.9	<140	<6.9
Isopropylbenzene	2300	49	54	190	93
m+p Xylene	1200	97	<14	560	1300
Methyl Ethyl Ketone	300	<67	<69	<1,400	<69
Methylene Chloride	100	<6.7	<6.9	<140	<6.9
Methyl Isobutyl Ketone	---	<67	<69	<1,400	<69
Methyl tert-butyl Ether (MTBE)	---	<6.7	<6.9	<140	<6.9
n-Butylbenzene	10000	<6.7	14	<140	50
n-Propylbenzene	3700	28	24	<140	50
Naphthalene(v)	1300	410	49	40,000	640
o Xylene	1200	47	<6.9	290	460
p-Diethylbenzene	---	<6.7	47	<140	<6.9
p-Ethyltoluene	---	81	9.7	230	180
p-Isopropyltoluene	10000	120	19	390	390
sec-Butylbenzene	10000	17	29	<140	32
Styrene	---	<6.7	<6.9	<140	<6.9
trans-1,2-Dichloroethene	300	<6.7	<6.9	<140	<6.9
trans-1,3 Dichloropropene	300	<6.7	<6.9	290	<6.9
tert-Butylbenzene	10000	<6.7	11	<140	<6.9
Tetrachloroethene	1400	6.7	<6.9	<140	11
Toluene	1500	49	<6.9	200	360
Trichloroethylene	---	<6.7	<6.9	<140	<6.9
Trichlorofluoromethane	---	<6.7	<6.9	<140	<6.9
Vinyl Chloride	200	<6.7	<6.9	<140	<6.9

NOTES:

All units are in µg/kg (parts-per-billion)

--- No standard or guidance value available

Values in bold exceed the NYSDEC TAGM Recommended Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation
TAGM - Technical and Administrative Guidance Memorandum #4046

TABLE 2

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
SEMI-VOLATILE ORGANIC COMPOUNDS
IN SOIL

Compound	NYSDEC TAGM	B-1 (3-7)	B-2 (4-8)	B-3 (2-8)	B-4 (2-6)
Date:		3/28/2005	3/28/2005	3/28/2005	3/28/2005
2-Methylnaphthalene	36,400	<400	<420	8,100	580
Acenaphthene	50,000	1,300	2,100	9,600	960
Acenaphthylene	41,000	<400	<420	<430	<420
Anthracene	50,000	2,500	3,200	8,100	1,700
Benzo(a)anthracene	224	**4,000**	**4,400**	**6,400J**	**4,700J**
Benzo(a)pyrene	61	**2,900**	**3,800J**	**5,100J**	**3,600J**
Benzo(b)fluoranthene	1,100	**3,500**	**4300J**	**5,600J**	**4,300J**
Benzo(ghi)perylene	50,000	1,300	1,700J	2,700J	2,100J
Benzo(k)fluoranthene	1,100	**3,500**	**4,300J**	**5,600J**	**4,300J**
Chrysene	400	**3,900**	**4,200**	**6,400J**	**5,300J**
Dibenzo(a,h)anthracene	14	**400**	**500J**	**860J**	**600J**
Fluoranthene	50,000	8,000	10,000	12,000	6,700
Fluorene	50,000	1,300	2,200	8,600	1,100
Indeno(1,2,3-cd)pyrene	32,000	1,500	2,100J	3,300J	2,100J
Naphthalene(sv)	13,000	750	860	**30,000**	1,800
Phenanthrene	50,000	9,100	4,300	29,000	8,500
Pyrene	50,000	11,000	15,000	27,000J	19,000J

NOTES:

All units are in µg/kg (parts-per-billion)
--- No standard or guidance value available
Values in bold exceed the NYSDEC TAGM Recommended Soil Cleanup Objective
J - Estimated value due to low recovery

NYSDEC - New York State Department of Environmental Conservation
TAGM - Technical and Administrative Guidance Memorandum #4046

TABLE 3

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
POLY-CHLORINATED BIPHENYLS
IN SOIL

Compound	NYSDEC TAGM	B-1 (3-7)	B-2 (4-8)	B-3 (2-8)	B-4 (2-6)
Date:		3/28/2005	3/28/2005	3/28/2005	3/28/2005
Aroclor 1016	10,000	<53	<56	<57	<56
Aroclor 1221	10,000	<53	<56	<57	<56
Aroclor 1232	10,000	<53	<56	<57	<56
Aroclor 1242	10,000	<53	<56	<57	<56
Aroclor 1248	10,000	<53	<56	<57	<56
Aroclor 1254	10,000	210	2,600	970	900
Aroclor 1260	10,000	<53	<56	<57	<56

NOTES:
All units are in µg/kg (parts-per-billion)
Values in bold exceed the NYSDEC TAGM Recommended Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation
TAGM - Technical and Administrative Guidance Memorandum #4046

TABLE 4

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF METALS
IN SOIL

Compound	NYSDEC TAGM	B-1 (3-7)	B-2 (4-8)	B-3 (2-8)	B-4 (2-6)
Date:		3/28/2005	3/28/2005	3/28/2005	3/28/2005
Antimony	SB (N/A)	<2.7	<2.8	<2.9	<2.8
Arsenic	7.5 or SB (3-12**)	5.1	5.3	**46**	**4.7**
Barium	300 or SB (15-600)	210	170	160	220
Beryllium	0.16 or SB (0-1.75)	**0.28**	**0.35**	**0.71**	**0.29**
Cadmium	10	1.7	1.9	0.46	2.2
Chromium	50	20	17	37	24
Copper	25 or SB (1-50)	**37**	**54.0**	**160**	**140**
Lead	SB (200-500)	200	380	**760**	460
Mercury	0.1	**0.16**	0.0069	**0.34**	0.056
Nickel	13 or SB (0.5-25)	13	12	13	13
Selenium	2 or SB (0.1-3.9)	<0.53	<0.56	<0.57	<0.56
Silver	SB (N/A)	0.75	0.96	<0.71	1.2
Thallium	SB (N/A)	<2.7	<2.8	<2.9	<2.8
Zinc	20 or SB (9-50)	**440**	**460**	**690**	**1100**

NOTES:
All units are in mg/kg (parts-per-million)
Values in bold exceed the NYSDEC TAGM Recommended Soil Cleanup Objective

NYSDEC - New York State Department of Environmental Conservation
TAGM - Technical and Administrative Guidance Memorandum #4046
SB - Site background
** New York State background
N/A not available

TABLE 5

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER

Compound	NYSDEC TOGS**	B-1 (GW)	B-4 (GW)
Date:		3/28/2005	3/28/2005
1,1 Dichloroethane	5	<1	<1
1,1 Dichloroethene	5	<1	<1
1,1 Dichloropropene	---	<1	<1
1,2 Dibromoethane	---	<1	<1
1,2 Dichlorobenzene (v)	3	<1	<1
1,2 Dichloroethane	0.6	<1	<1
1,2 Dichloropropane	1	<1	<1
1,3 Dichlorobenzene (v)	3	<1	<1
1,3 Dichloropropane	5	<1	<1
1,4 Dichlorobenzene (v)	3	<1	<1
1,1,1 Trichloroethane	5	<1	<1
1,1,1,2 Tetrachloroethane	5	<1	<1
1,1,2 Trichloroethane	1	<1	<1
1,1,2,2 Tetrachloroethane	5	<1	<1
1,2,3 Trichlorobenzene	5	<1	<1
1,2,3-Trichloropropane	0.04	<1	<1
1,2,4 Trichlorobenzene (v)	5	<1	<1
1,2,4 Trimethylbenzene	5	<1	1
1,2,4,5 Tetramethylbenzene	5	<1	<1
1,3,5 Trimethylbenzene	5	<1	<1
2,2 Dichloropropane	5	<1	<1
2-Chlorotoluene	5	<1	<1
4-Chlorotoluene	5	<1	<1
Acetone	50	12	18
Benzene	0.7	1	<1
Bromobenzene	5	<1	<1
Bromochloromethane	5	<1	<1
Bromodichloromethane	50	<1	<1
Bromoform	50	<1	<1
Bromomethane	5	<1	<1
cis-1,2-Dichloroethene	5	<1	<1
cis-1,3 Dichloropropene	0.4	<1	<1
Carbon Tetrachloride	5	<1	<1
Chlorobenzene	5	<1	<1

NOTES:
All units are µg/L (parts-per-billion)
--- No standard or guidance value available
Values in bold exceed the NYSDEC Guidance Values

**NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

TABLE 5

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER

Compound	NYSDEC TOGS**	B-1 (GW)	B-4 (GW)
Date:		3/28/2005	3/28/2005
Chlorodibromomethane	---	<1	<1
Chlorodifluoromethane	---	<1	<1
Chloroethane	5	<1	<1
Chloroform	7	<1	<1
Chloromethane	---	<1	<1
Dibromochloropropane	0.04	<1	<1
Dibromomethane	5	<1	<1
Dichlorodifluoromethane	5	<1	<1
Ethyl Benzene	5	<1	**2**
Freon 113	---	<1	<1
Hexachlorobutadiene	0.5	<1	<1
Isopropylbenzene	5	<1	<1
m+p Xylene	5	<2	7
Methyl Ethyl Ketone	---	<10	<10
Methylene Chloride	5	<1	<1
Methyl Isobutyl Ketone	---	<10	<10
Methyl tert-butyl Ether (MTBE)	---	<1	<1
n-Butylbenzene	5	<1	<1
n-Propylbenzene	5	<1	<1
Naphthalene(v)	10	3	**84**
o Xylene	5	<1	**4**
p Diethylbenzene	---	<1	<1
p-Ethyltoluene	---	<1	<1
p-Isopropyltoluene	5	<1	5
sec-Butylbenzene	5	<1	<1
Styrene	5	<1	<1
trans-1,2-Dichloroethene	5	<1	<1
trans-1,3 Dichloropropene	0.4	<1	<1
tert-Butylbenzene	5	<1	<1
Tetrachloroethene	5	<1	<1
Toluene	5	<1	**4**
Trichloroethylene	---	<1	<1
Trichlorofluoromethane	5	<1	<1
Vinyl Chloride	2	<1	<1

NOTES:
All units are µg/L (parts-per-billion)
--- No standard or guidance value available
Values in bold exceed the NYSDEC Guidance Values

**NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

TABLE 6

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
SEMI-VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER

Compound	NYSDEC TOGS**	B-1 (GW)	B-4 (GW)
Date:		3/28/2005	3/28/2005
2-Methylnaphthalene	---	<1	<10
Acenaphthene	20	1	<10
Acenaphthylene	---	<1	<10
Anthracene	50	<1	<10
Benzo(a)anthracene	0.002	<1	<10
Benzo(a)pyrene	ND	<1	<10
Benzo(b)fluoranthene	0.002	<1	<10
Benzo(ghi)perylene	0.002	<1	<10
Benzo(k)fluoranthene	0.002	<1	<10
Chrysene	0.002	<1	<10
Dibenzo(a,h)anthracene	50	<1	<10
Fluoranthene	50	<1	21
Fluorene	50	<1	<10
Indeno(1,2,3-cd)pyrene	0.002	<1	<10
Naphthalene(sv)	10	<1	**13**
Phenanthrene	50	<1	31
Pyrene	50	<1	18

NOTES:
All units are µg/L (parts-per-billion)
--- No standard or guidance value available
Values in bold exceed NYSDEC TOGS Guidance Values
ND-Non Detectable concentration by approved analytical methods

**NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

TABLE 7

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

ANALYTICAL RESULTS OF
POLY-CHLORINATED BIPHENYLS
IN GROUNDWATER

Compound	NYSDEC TOGS**	B-1 (GW)	B-4 (GW)
Date:		3/28/2005	3/28/2005
Aroclor 1016	0.09	< 1	< 1
Aroclor 1221	0.09	< 1	< 1
Aroclor 1232	0.09	< 1	< 1
Aroclor 1242	0.09	< 1	< 1
Aroclor 1248	0.09	< 1	< 1
Aroclor 1254	0.09	< 1	< 1
Aroclor 1260	0.09	< 1	**2**

NOTES:
All units are µg/L (parts-per-billion)
--- No standard or guidance value available
Values in bold exceed NYSDEC TOGS Guidance Values

**NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

TABLE 8

COOPER TANK
252 MASPETH AVENUE
MASPETH, NEW YORK

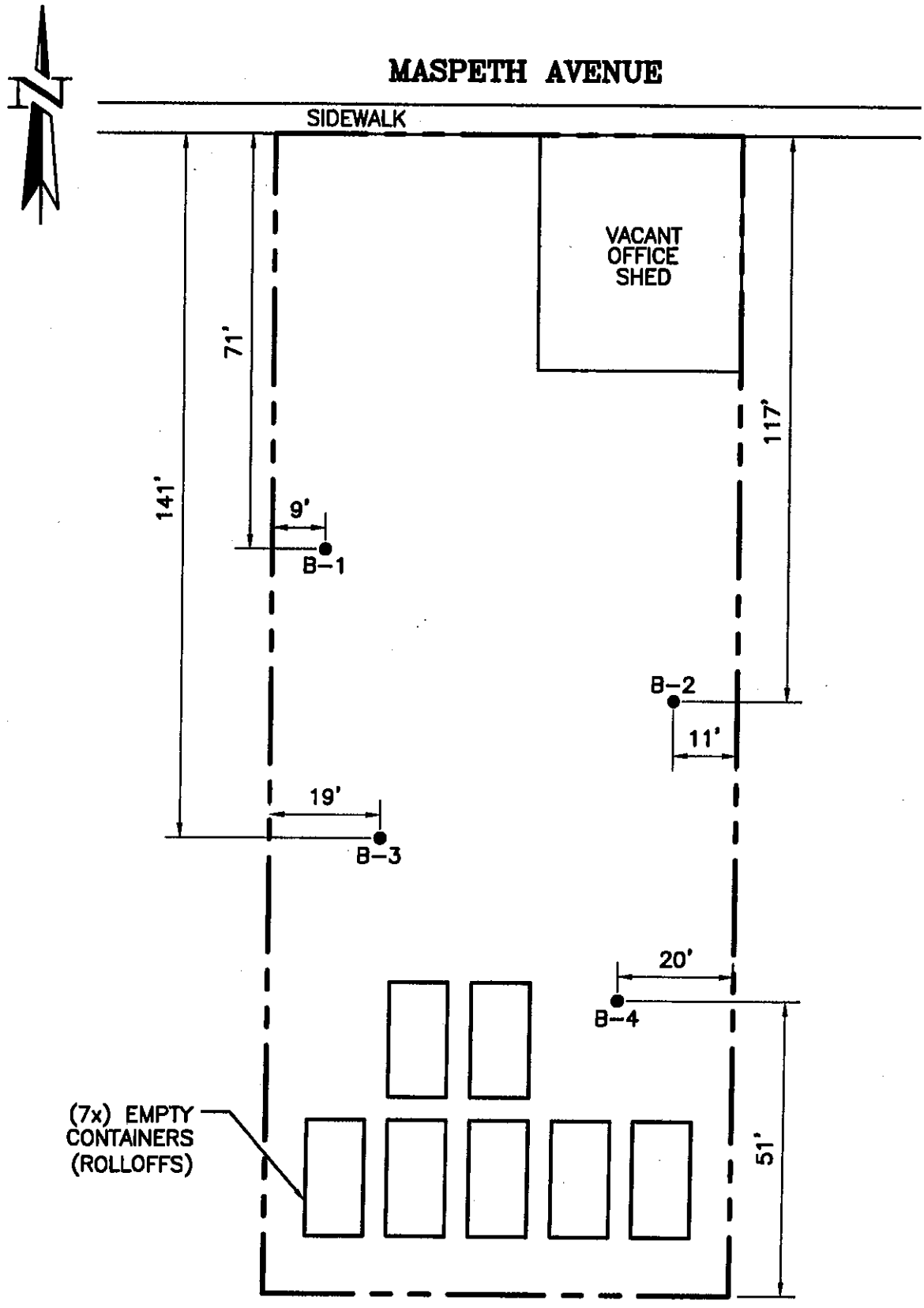
ANALYTICAL RESULTS OF METALS
IN GROUNDWATER

Compound	NYSDEC TOGS**	B-1 (GW)	B-4 (GW)
Date:		3/28/2005	3/28/2005
Antimony	0.003	<0.5	<0.5
Arsenic	0.025	**2.3**	**1.2**
Barium	1.0	**39**	**23**
Beryllium	0.003	**0.06**	<0.05
Cadmium	0.005	**0.52**	<0.25
Chromium	0.05	**3.3**	**2.5**
Copper	0.2	**45**	**21**
Lead	0.025	**130**	**44**
Mercury	0.0007	**0.26**	**0.079**
Nickel	0.1	**2.6**	**2.2**
Selenium	0.01	**0.16**	**0.14**
Silver	0.05	<0.25	<0.25
Thallium	0.0005	<0.5	<0.5
Zinc	2.0	**130**	**49.0**

NOTES:
All units are mg/L (parts-per-million)
--- No standard or guidance value available
Values in bold exceed NYSDEC TOGS Guidance Values

**NYSDEC Technical and Operational Guidance Series (1.1.1)
Ambient Water Quality Standards and Guidance Values
and Groundwater Effluent Limitations June 1998

FIGURE 1



NOT TO SCALE

LEGEND

● BORING LOCATION

SITE PLAN

COOPER TANK
252 MASPETH AVENUE
BROOKLYN, NEW YORK

S44440A-004
042905

APPENDIX A

BORING LOGS

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		9' from western property boundary	
Personnel: Brian Dortch		71' from northern property boundary	
Total Depth: 12'	Depth to Water: 7'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0-1'			Concrete	
1	4.0	12, 14, 9, 16		1-3'	slightly moist	2'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
2								
3	5.5	13, 17, 21, 16	B-1 (3-7)	3-5'	moist	2'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
4								
5	5.2	8, 16, 12, 9		5-7'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
6								
7	3.5	10, 7, 5, 2	B-1 (GW)	7-9'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
8								
9		3, 3, 7, 5		9-11'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		11' from eastern property boundary	
Personnel: Brian Dortch		117' from northern property boundary	
Total Depth: 10'	Depth to Water: 7.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	7, 4, 8, 16		0-2'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
2								
3	2.0	4, 4, 6, 8		2-4'	moist	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
4								
5	1.0	4, 6, 8, 13	B-2 (4-8)	4-6'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
6								
7	1.5	7, 9, 8, 13		6-8'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
8								
9	0.0	5, 7, 6, 12		8-10'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		19' from western property boundary	
Personnel: Brian Dortch		141' from northern property boundary	
Total Depth: 10'	Depth to Water: 8'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	8, 12, 7, 7		0-2'	slightly moist	1'	Black M soft SILT with wood and stone fragments (Urban fill)	some staining and odor
2								
3	0.5	5, 3, 7, 3	B-3 (2-8)	2-4'	moist	0.5'	Black M soft SILT with wood and plastic fragments (Urban fill)	some staining no odor
4								
5	0.0	3, 3, 6, 3		4-6'	moist	0.0'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
6								
7	1.3	7, 5, 12, 13		6-8'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
8								
9	1.0	11, 13, 17, 21		8-10'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		20' from eastern property boundary	
Personnel: Brian Dortch		51' from southern property boundary	
Total Depth: 12'	Depth to Water: 9'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	7, 9, 18, 12		0-2'	slightly moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
2								
3	2.5	23, 12, 9, 16	B-4 (2-6)	2-4'	slightly moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
4								
5	1.0	15, 13, 12, 9		4-6'	moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
6								
7	0.0	9, 7, 8, 12		6-8'	moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
8								
9	0.0	13, 9, 12, 12	B-4 (GW)	8-10'	saturated	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

APPENDIX B

LABORATORY ANALYTICAL DATA SHEETS

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030

MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Chloromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Vinyl Chloride	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Bromomethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Chloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Trichlorofluoromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,1 Dichloroethene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Methylene Chloride	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,1 Dichloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
2,2-Dichloropropane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Bromochloromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Chloroform	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
111 Trichloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Carbon Tetrachloride	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,1-Dichloropropene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Benzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,2 Dichloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Trichloroethene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,2 Dichloropropane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Dibromomethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Bromodichloromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
c-1,3Dichloropropene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Toluene	ug/Kg	49		03/29/05	6.6666	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6824 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
112 Trichloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Tetrachloroethene	ug/Kg	6.7		03/29/05	6.6666	EPA8260
1,3-Dichloropropane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Chlorodibromomethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,2 Dibromoethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Chlorobenzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Ethyl Benzene	ug/Kg	81		03/29/05	6.6666	EPA8260
1112Tetrachloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
m + p Xylene	ug/Kg	97		03/29/05	13.333	EPA8260
o Xylene	ug/Kg	47		03/29/05	6.6666	EPA8260
Styrene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Bromoform	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Isopropylbenzene	ug/Kg	49		03/29/05	6.6666	EPA8260
Bromobenzene	ug/Kg	8		03/29/05	6.6666	EPA8260
1122Tetrachloroethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
123-Trichloropropane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
n-Propylbenzene	ug/Kg	28		03/29/05	6.6666	EPA8260
2-Chlorotoluene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
135-Trimethylbenzene	ug/Kg	59		03/29/05	6.6666	EPA8260
4-Chlorotoluene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
tert-Butylbenzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
124-Trimethylbenzene	ug/Kg	160		03/29/05	6.6666	EPA8260
sec-Butylbenzene	ug/Kg	17		03/29/05	6.6666	EPA8260
p-Isopropyltoluene	ug/Kg	120		03/29/05	6.6666	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6825 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030

MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	29		03/29/05	6.6666	EPA8260
n-Butylbenzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Dibromochloropropane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Hexachlorobutadiene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
Naphthalene(v)	ug/Kg	410		03/29/05	6.6666	EPA8260
123-Trichlorobenzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
ter.ButylMethylEther	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
p-Ethyltoluene	ug/Kg	81		03/29/05	6.6666	EPA8260
Freon 113	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
1245 Tetramethylbenz	ug/Kg	37		03/29/05	6.6666	EPA8260
Acetone	ug/Kg	< 67		03/29/05	66.666	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 67		03/29/05	66.666	EPA8260
Methylisobutylketone	ug/Kg	< 67		03/29/05	66.666	EPA8260
Chlorodifluoromethane	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
p Diethylbenzene	ug/Kg	< 6.7		03/29/05	6.6666	EPA8260
% Solids		75		03/30/05	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030

MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	750		04/01/05	400	EPA8270
2-Methylnaphthalene	ug/Kg	< 400		04/01/05	400	EPA8270
Acenaphthylene	ug/Kg	< 400		04/01/05	400	EPA8270
Acenaphthene	ug/Kg	1300		04/01/05	400	EPA8270
Fluorene	ug/Kg	1300		04/01/05	400	EPA8270
Phenanthrene	ug/Kg	9100		04/01/05	400	EPA8270
Anthracene	ug/Kg	2500		04/01/05	400	EPA8270
Fluoranthene	ug/Kg	8000		04/01/05	400	EPA8270
Pyrene	ug/Kg	11000		04/01/05	400	EPA8270
Benzo(a)anthracene	ug/Kg	4000		04/01/05	400	EPA8270
Chrysene	ug/Kg	3900		04/01/05	400	EPA8270
Benzo(b)fluoranthene	ug/Kg	3500	#	04/01/05	400	EPA8270
Benzo(k)fluoranthene	ug/Kg	3500	#	04/01/05	400	EPA8270
Benzo(a)pyrene	ug/Kg	2900		04/01/05	400	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1500		04/01/05	400	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	400		04/01/05	400	EPA8270
Benzo(ghi)perylene	ug/Kg	1300		04/01/05	400	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 7000 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 53		04/02/05	53.333	EPA8082
Aroclor 1221	ug/Kg	< 53		04/02/05	53.333	EPA8082
Aroclor 1232	ug/Kg	< 53		04/02/05	53.333	EPA8082
Aroclor 1242	ug/Kg	< 53		04/02/05	53.333	EPA8082
Aroclor 1248	ug/Kg	< 53		04/02/05	53.333	EPA8082
Aroclor 1254	ug/Kg	210		04/02/05	53.333	EPA8082
Aroclor 1260	ug/Kg	< 53		04/02/05	53.333	EPA8082

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6828 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.01 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030

MATRIX:Soil SAMPLE: B-1 (3-7)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/Kg	< 2.7		04/01/05	2.6666	EPA6010
Arsenic as As	mg/Kg	5.1		04/01/05	1.3333	EPA6010
Beryllium as Be	mg/Kg	0.28		04/01/05	0.1333	EPA6010
Cadmium as Cd	mg/Kg	1.7		04/01/05	0.6666	EPA6010
Chromium as Cr	mg/Kg	20		04/01/05	0.6666	EPA6010
Copper as Cu	mg/Kg	37		04/01/05	1.3333	EPA6010
Lead as Pb	mg/Kg	200		04/01/05	0.6666	EPA6010
Mercury as Hg	mg/Kg	0.16		03/31/05	0.0066	EPA7470A
Nickel as Ni	mg/Kg	13		04/01/05	1.3333	EPA6010
Selenium as Se	mg/Kg	< 0.53		03/31/05	0.5333	EPA7740
Silver as Ag	mg/Kg	0.75		04/01/05	0.6666	EPA6010
Thallium as Tl	mg/Kg	< 2.7		04/01/05	2.6666	EPA6010
Zinc as Zn	mg/Kg	440		04/01/05	1.3333	EPA6010
Barium as Ba	mg/Kg	210		04/01/05	0.6666	EPA6010

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6829 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130

MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Vinyl Chloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Trichlorofluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1 Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Methylene Chloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1 Dichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
2,2-Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromochloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloroform	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
111 Trichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Carbon Tetrachloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1-Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Benzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Trichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Dibromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromodichloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
c-1,3Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Toluene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6830 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130

MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
112 Trichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Tetrachloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,3-Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chlorodibromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dibromoethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chlorobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Ethyl Benzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1112Tetrachloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
m + p Xylene	ug/Kg	< 14		03/29/05	13.888	EPA8260
o Xylene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Styrene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromoform	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Isopropylbenzene	ug/Kg	54		03/29/05	6.9444	EPA8260
Bromobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1122Tetrachloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
123-Trichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
n-Propylbenzene	ug/Kg	24		03/29/05	6.9444	EPA8260
2-Chlorotoluene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
135-Trimethylbenzene	ug/Kg	9.7		03/29/05	6.9444	EPA8260
4-Chlorotoluene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
tert-Butylbenzene	ug/Kg	11		03/29/05	6.9444	EPA8260
124-Trimethylbenzene	ug/Kg	22		03/29/05	6.9444	EPA8260
sec-Butylbenzene	ug/Kg	29		03/29/05	6.9444	EPA8260
p-Isopropyltoluene	ug/Kg	19		03/29/05	6.9444	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130
MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	6.9		03/29/05	6.9444	EPA8260
n-Butylbenzene	ug/Kg	14		03/29/05	6.9444	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Dibromochloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
124-Trichlorobenzene (v)	ug/Kg	6.9		03/29/05	6.9444	EPA8260
Hexachlorobutadiene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Naphthalene(v)	ug/Kg	49		03/29/05	6.9444	EPA8260
123-Trichlorobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
ter.ButylMethylEther	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
p-Ethyltoluene	ug/Kg	9.7		03/29/05	6.9444	EPA8260
Freon 113	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1245 Tetramethylbenz	ug/Kg	75		03/29/05	6.9444	EPA8260
Acetone	ug/Kg	< 69		03/29/05	69.444	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 69		03/29/05	69.444	EPA8260
Methylisobutylketone	ug/Kg	< 69		03/29/05	69.444	EPA8260
Chlorodifluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
p Diethylbenzene	ug/Kg	47		03/29/05	6.9444	EPA8260
% Solids		72		03/30/05	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130

MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	860		04/01/05	416.66	EPA8270
2-Methylnaphthalene	ug/Kg	< 420		04/01/05	416.66	EPA8270
Acenaphthylene	ug/Kg	< 420		04/01/05	416.66	EPA8270
Acenaphthene	ug/Kg	2100		04/01/05	416.66	EPA8270
Fluorene	ug/Kg	2200		04/01/05	416.66	EPA8270
Phenanthrene	ug/Kg	4300		04/01/05	416.66	EPA8270
Anthracene	ug/Kg	3200		04/01/05	416.66	EPA8270
Fluoranthene	ug/Kg	10000		04/01/05	416.66	EPA8270
Pyrene	ug/Kg	15000		04/01/05	416.66	EPA8270
Benzo(a)anthracene	ug/Kg	4400		04/01/05	416.66	EPA8270
Chrysene	ug/Kg	4200		04/01/05	416.66	EPA8270
Benzo(b)fluoranthene	ug/Kg	4300	#*	04/01/05	416.66	EPA8270
Benzo(k)fluoranthene	ug/Kg	4300	#*	04/01/05	416.66	EPA8270
Benzo(a)pyrene	ug/Kg	3800	*	04/01/05	416.66	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2100	*	04/01/05	416.66	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	500	*	04/01/05	416.66	EPA8270
Benzo(ghi)perylene	ug/Kg	1700	*	04/01/05	416.66	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =8600 ug/Kg, unable to separate isomers.
*Estimated due to low internal standard, *35%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130

MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1221	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1232	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1242	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1248	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1254	ug/Kg	2600		04/04/05	555.55	EPA8082
Aroclor 1260	ug/Kg	< 56		04/02/05	55.555	EPA8082

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6834 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.02 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1130

MATRIX:Soil SAMPLE: B-2 (4-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/Kg	< 2.8		04/01/05	2.7777	EPA6010
Arsenic as As	mg/Kg	5.3		04/01/05	1.3888	EPA6010
Beryllium as Be	mg/Kg	0.35		04/01/05	0.1388	EPA6010
Cadmium as Cd	mg/Kg	1.9		04/01/05	0.6944	EPA6010
Chromium as Cr	mg/Kg	17		04/01/05	0.6944	EPA6010
Copper as Cu	mg/Kg	54		04/01/05	1.3888	EPA6010
Lead as Pb	mg/Kg	380		04/01/05	0.6944	EPA6010
Mercury as Hg	mg/Kg	< 0.0069		03/31/05	0.0069	EPA7470A
Nickel as Ni	mg/Kg	12		04/01/05	1.3888	EPA6010
Selenium as Se	mg/Kg	< 0.56		04/01/05	0.5555	EPA7740
Silver as Ag	mg/Kg	0.96		04/01/05	0.6944	EPA6010
Thallium as Tl	mg/Kg	< 2.8		04/01/05	2.7777	EPA6010
Zinc as Zn	mg/Kg	460		04/01/05	1.3888	EPA6010
Barium as Ba	mg/Kg	170		04/01/05	0.6944	EPA6010

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6835 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215

MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Chloromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Vinyl Chloride	ug/Kg	< 140		04/01/05	142.85	EPA8260
Bromomethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Chloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Trichlorofluoromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,1 Dichloroethene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Methylene Chloride	ug/Kg	< 140		04/01/05	142.85	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,1 Dichloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
2,2-Dichloropropane	ug/Kg	< 140		04/01/05	142.85	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Bromochloromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Chloroform	ug/Kg	< 140		04/01/05	142.85	EPA8260
111 Trichloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Carbon Tetrachloride	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,1-Dichloropropene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Benzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,2 Dichloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Trichloroethene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,2 Dichloropropane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Dibromomethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Bromodichloromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
c-1,3Dichloropropene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Toluene	ug/Kg	200		04/01/05	142.85	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS: Elevated Laboratory Reporting Limits (LRL) due to interference in sample.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215

MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

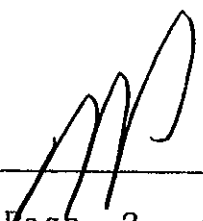
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/Kg	< 140		04/01/05	142.85	EPA8260
112 Trichloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Tetrachloroethene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,3-Dichloropropane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Chlorodibromomethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,2 Dibromoethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
Chlorobenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Ethyl Benzene	ug/Kg	330		04/01/05	142.85	EPA8260
1112Tetrachloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
m + p Xylene	ug/Kg	560		04/01/05	285.71	EPA8260
o Xylene	ug/Kg	290		04/01/05	142.85	EPA8260
Styrene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Bromoform	ug/Kg	< 140		04/01/05	142.85	EPA8260
Isopropylbenzene	ug/Kg	190		04/01/05	142.85	EPA8260
Bromobenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1122Tetrachloroethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
123-Trichloropropane	ug/Kg	< 140		04/01/05	142.85	EPA8260
n-Propylbenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
2-Chlorotoluene	ug/Kg	< 140		04/01/05	142.85	EPA8260
135-Trimethylbenzene	ug/Kg	200		04/01/05	142.85	EPA8260
4-Chlorotoluene	ug/Kg	< 140		04/01/05	142.85	EPA8260
tert-Butylbenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
124-Trimethylbenzene	ug/Kg	430		04/01/05	142.85	EPA8260
sec-Butylbenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
p-Isopropyltoluene	ug/Kg	390		04/01/05	142.85	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS: Elevated Laboratory Reporting Limits (LRL) due to interference in sample.

DIRECTOR



ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215

MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	< 140		04/01/05	142.85	EPA8260
n-Butylbenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 140		04/01/05	142.85	EPA8260
Dibromochloropropane	ug/Kg	< 140		04/01/05	142.85	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 140		04/01/05	142.85	EPA8260
Hexachlorobutadiene	ug/Kg	< 140		04/01/05	142.85	EPA8260
Naphthalene(v)	ug/Kg	40000		03/29/05	714.28	EPA8260
123-Trichlorobenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
ter.ButylMethylEther	ug/Kg	< 290		04/01/05	142.85	EPA8260
p-Ethyltoluene	ug/Kg	230		04/01/05	142.85	EPA8260
Freon 113	ug/Kg	< 140		04/01/05	142.85	EPA8260
1245 Tetramethylbenz	ug/Kg	< 140		04/01/05	142.85	EPA8260
Acetone	ug/Kg	< 1400		04/01/05	1428.5	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 1400		04/01/05	1428.5	EPA8260
Methylisobutylketone	ug/Kg	< 1400		04/01/05	1428.5	EPA8260
Chlorodifluoromethane	ug/Kg	< 140		04/01/05	142.85	EPA8260
p Diethylbenzene	ug/Kg	< 140		04/01/05	142.85	EPA8260
% Solids		70		03/30/05	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS: Elevated Laboratory Reporting Limits (LRL) due to interference in sample.

DIRECTOR

rn = 6838 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215
MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	30000		04/01/05	428.57	EPA8270
2-Methylnaphthalene	ug/Kg	8100		04/01/05	428.57	EPA8270
Acenaphthylene	ug/Kg	< 430		04/01/05	428.57	EPA8270
Acenaphthene	ug/Kg	9600		04/01/05	428.57	EPA8270
Fluorene	ug/Kg	8600		04/01/05	428.57	EPA8270
Phenanthrene	ug/Kg	29000		04/01/05	428.57	EPA8270
Anthracene	ug/Kg	8100		04/01/05	428.57	EPA8270
Fluoranthene	ug/Kg	12000		04/01/05	428.57	EPA8270
Pyrene	ug/Kg	27000	*	04/01/05	428.57	EPA8270
Benzo(a)anthracene	ug/Kg	6400	*	04/01/05	428.57	EPA8270
Chrysene	ug/Kg	6400	*	04/01/05	428.57	EPA8270
Benzo(b)fluoranthene	ug/Kg	5600	#**	04/01/05	428.57	EPA8270
Benzo(k)fluoranthene	ug/Kg	5600	#**	04/01/05	428.57	EPA8270
Benzo(a)pyrene	ug/Kg	5100	**	04/01/05	428.57	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	3300	**	04/01/05	428.57	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	860	**	04/01/05	428.57	EPA8270
Benzo(ghi)perylene	ug/Kg	2700	**	04/01/05	428.57	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =11200 ug/Kg, unable to separate isomers.
*,**Estimated due to low internal standard, *35% & **28%.
Low recovery due to interference. QC limit is 50%.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215
MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 57		04/02/05	57.142	EPA8082
Aroclor 1221	ug/Kg	< 57		04/02/05	57.142	EPA8082
Aroclor 1232	ug/Kg	< 57		04/02/05	57.142	EPA8082
Aroclor 1242	ug/Kg	< 57		04/02/05	57.142	EPA8082
Aroclor 1248	ug/Kg	< 57		04/02/05	57.142	EPA8082
Aroclor 1254	ug/Kg	970		04/04/05	285.71	EPA8082
Aroclor 1260	ug/Kg	< 57		04/02/05	57.142	EPA8082

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6840 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.03 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1215

MATRIX:Soil SAMPLE: B-3 (2-8)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/Kg	< 2.9		03/31/05	2.8571	EPA6010
Arsenic as As	mg/Kg	46		04/01/05	7.1428	EPA6010
Beryllium as Be	mg/Kg	0.71		04/01/05	0.7142	EPA6010
Cadmium as Cd	mg/Kg	0.46		04/01/05	3.5714	EPA6010
Chromium as Cr	mg/Kg	37		04/01/05	3.5714	EPA6010
Copper as Cu	mg/Kg	160		04/01/05	7.1428	EPA6010
Lead as Pb	mg/Kg	760		04/01/05	3.5714	EPA6010
Mercury as Hg	mg/Kg	0.34		03/31/05	0.0285	EPA7470A
Nickel as Ni	mg/Kg	13		04/01/05	7.1428	EPA6010
Selenium as Se	mg/Kg	< 0.57		04/01/05	0.5714	EPA7740
Silver as Ag	mg/Kg	< 0.71		03/31/05	0.7142	EPA6010
Thallium as Tl	mg/Kg	< 2.9		03/31/05	2.8571	EPA6010
Zinc as Zn	mg/Kg	690		04/01/05	7.1428	EPA6010
Barium as Ba	mg/Kg	160		04/01/05	3.5714	EPA6010

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6841 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300

MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Vinyl Chloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Trichlorofluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1 Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Methylene Chloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1 Dichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
2,2-Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromochloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chloroform	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
111 Trichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Carbon Tetrachloride	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,1-Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Benzene	ug/Kg	9.7		03/29/05	6.9444	EPA8260
1,2 Dichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Trichloroethene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Dibromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromodichloromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
c-1,3Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Toluene	ug/Kg	360		03/29/05	6.9444	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6842 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300
MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
112 Trichloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Tetrachloroethene	ug/Kg	11		03/29/05	6.9444	EPA8260
1,3-Dichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chlorodibromomethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dibromoethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Chlorobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Ethyl Benzene	ug/Kg	460		03/29/05	6.9444	EPA8260
1112Tetrachloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
m + p Xylene	ug/Kg	1300		03/29/05	13.888	EPA8260
o Xylene	ug/Kg	460		03/29/05	6.9444	EPA8260
Styrene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Bromoform	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Isopropylbenzene	ug/Kg	93		03/29/05	6.9444	EPA8260
Bromobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1122Tetrachloroethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
123-Trichloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
n-Propylbenzene	ug/Kg	50		03/29/05	6.9444	EPA8260
2-Chlorotoluene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
135-Trimethylbenzene	ug/Kg	170		03/29/05	6.9444	EPA8260
4-Chlorotoluene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
tert-Butylbenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
124-Trimethylbenzene	ug/Kg	400		03/29/05	6.9444	EPA8260
sec-Butylbenzene	ug/Kg	32		03/29/05	6.9444	EPA8260
p-Isopropyltoluene	ug/Kg	390		03/29/05	6.9444	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6843 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300
MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	29		03/29/05	6.9444	EPA8260
n-Butylbenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Dibromochloropropane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Hexachlorobutadiene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
Naphthalene(v)	ug/Kg	640		03/29/05	6.9444	EPA8260
123-Trichlorobenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
ter.ButylMethylEther	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
p-Ethyltoluene	ug/Kg	180		03/29/05	6.9444	EPA8260
Freon 113	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
1245 Tetramethylbenz	ug/Kg	54		03/29/05	6.9444	EPA8260
Acetone	ug/Kg	79		03/29/05	69.444	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 69		03/29/05	69.444	EPA8260
Methylisobutylketone	ug/Kg	< 69		03/29/05	69.444	EPA8260
Chlorodifluoromethane	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
p Diethylbenzene	ug/Kg	< 6.9		03/29/05	6.9444	EPA8260
% Solids		72		03/30/05	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6844 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300
MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1800		04/01/05	416.66	EPA8270
2-Methylnaphthalene	ug/Kg	580		04/01/05	416.66	EPA8270
Acenaphthylene	ug/Kg	< 420		04/01/05	416.66	EPA8270
Acenaphthene	ug/Kg	960		04/01/05	416.66	EPA8270
Fluorene	ug/Kg	1100		04/01/05	416.66	EPA8270
Phenanthrene	ug/Kg	8500		04/01/05	416.66	EPA8270
Anthracene	ug/Kg	1700		04/01/05	416.66	EPA8270
Fluoranthene	ug/Kg	6700		04/01/05	416.66	EPA8270
Pyrene	ug/Kg	19000	*	04/01/05	416.66	EPA8270
Benzo(a)anthracene	ug/Kg	4700	*	04/01/05	416.66	EPA8270
Chrysene	ug/Kg	5300	*	04/01/05	416.66	EPA8270
Benzo(b)fluoranthene	ug/Kg	4300	#**	04/01/05	416.66	EPA8270
Benzo(k)fluoranthene	ug/Kg	4300	#**	04/01/05	416.66	EPA8270
Benzo(a)pyrene	ug/Kg	3600	**	04/01/05	416.66	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2100	**	04/01/05	416.66	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	600	**	04/01/05	416.66	EPA8270
Benzo(ghi)perylene	ug/Kg	2100	**	04/01/05	416.66	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 8600 ug/Kg, unable to separate isomers.
*,**Estimated due to low internal standard, *39% & **30%.
Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 6845 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300
MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1221	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1232	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1242	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1248	ug/Kg	< 56		04/02/05	55.555	EPA8082
Aroclor 1254	ug/Kg	900		04/04/05	277.77	EPA8082
Aroclor 1260	ug/Kg	< 56		04/02/05	55.555	EPA8082

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.04 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1300

MATRIX:Soil SAMPLE: B-4 (2-6)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/Kg	< 2.8		03/31/05	2.7777	EPA6010
Arsenic as As	mg/Kg	4.7		04/01/05	1.3888	EPA6010
Beryllium as Be	mg/Kg	0.29		04/01/05	0.1388	EPA6010
Cadmium as Cd	mg/Kg	2.2		04/01/05	0.6944	EPA6010
Chromium as Cr	mg/Kg	24		04/01/05	0.6944	EPA6010
Copper as Cu	mg/Kg	140		04/01/05	1.3888	EPA6010
Lead as Pb	mg/Kg	460		04/01/05	0.6944	EPA6010
Mercury as Hg	mg/Kg	0.056		03/31/05	0.0069	EPA7470A
Nickel as Ni	mg/Kg	13		04/01/05	1.3888	EPA6010
Selenium as Se	mg/Kg	< 0.56		04/01/05	0.5555	EPA7740
Silver as Ag	mg/Kg	1.2		04/01/05	0.6944	EPA6010
Thallium as Tl	mg/Kg	< 2.8		03/31/05	2.7777	EPA6010
Zinc as Zn	mg/Kg	1100		04/01/05	1.3888	EPA6010
Barium as Ba	mg/Kg	220		04/01/05	0.6944	EPA6010

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6847 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/L	< 1		03/30/05	1	EPA8260
Chloromethane	ug/L	< 1		03/30/05	1	EPA8260
Vinyl Chloride	ug/L	< 1		03/30/05	1	EPA8260
Bromomethane	ug/L	< 1		03/30/05	1	EPA8260
Chloroethane	ug/L	< 1		03/30/05	1	EPA8260
Trichlorofluoromethane	ug/L	< 1		03/30/05	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
Methylene Chloride	ug/L	< 1		03/30/05	1	EPA8260
t-1,2-Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,1 Dichloroethane	ug/L	< 1		03/30/05	1	EPA8260
2,2-Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
c-1,2-Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
Bromochloromethane	ug/L	< 1		03/30/05	1	EPA8260
Chloroform	ug/L	< 1		03/30/05	1	EPA8260
111 Trichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Carbon Tetrachloride	ug/L	< 1		03/30/05	1	EPA8260
1,1-Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
Benzene	ug/L	1		03/30/05	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Trichloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
Dibromomethane	ug/L	< 1		03/30/05	1	EPA8260
Bromodichloromethane	ug/L	< 1		03/30/05	1	EPA8260
c-1,3Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
Toluene	ug/L	< 1		03/30/05	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6848 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

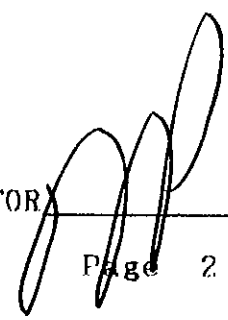
ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
112 Trichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Tetrachloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,3-Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
Chlorodibromomethane	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dibromoethane	ug/L	< 1		03/30/05	1	EPA8260
Chlorobenzene	ug/L	< 1		03/30/05	1	EPA8260
Ethyl Benzene	ug/L	< 1		03/30/05	1	EPA8260
1112Tetrachloroethane	ug/L	< 1		03/30/05	1	EPA8260
m + p Xylene	ug/L	< 2		03/30/05	2	EPA8260
o Xylene	ug/L	< 1		03/30/05	1	EPA8260
Styrene	ug/L	< 1		03/30/05	1	EPA8260
Bromoform	ug/L	< 1		03/30/05	1	EPA8260
Isopropylbenzene	ug/L	< 1		03/30/05	1	EPA8260
Bromobenzene	ug/L	< 1		03/30/05	1	EPA8260
1122Tetrachloroethane	ug/L	< 1		03/30/05	1	EPA8260
123-Trichloropropane	ug/L	< 1		03/30/05	1	EPA8260
n-Propylbenzene	ug/L	< 1		03/30/05	1	EPA8260
2-Chlorotoluene	ug/L	< 1		03/30/05	1	EPA8260
135-Trimethylbenzene	ug/L	< 1		03/30/05	1	EPA8260
4-Chlorotoluene	ug/L	< 1		03/30/05	1	EPA8260
tert-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
124-Trimethylbenzene	ug/L	< 1		03/30/05	1	EPA8260
sec-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
p-Isopropyltoluene	ug/L	< 1		03/30/05	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
n-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
Dibromochloropropane	ug/L	< 1		03/30/05	1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
Hexachlorobutadiene	ug/L	< 1		03/30/05	1	EPA8260
Naphthalene(v)	ug/L	3		03/30/05	1	EPA8260
123-Trichlorobenzene	ug/L	< 1		03/30/05	1	EPA8260
ter.ButylMethylEther	ug/L	< 1		03/30/05	1	EPA8260
p-Ethyltoluene	ug/L	< 1		03/30/05	1	EPA8260
Freon 113	ug/L	< 1		03/30/05	1	EPA8260
1245 Tetramethylbenz	ug/L	< 1		03/30/05	1	EPA8260
Acetone	ug/L	12		03/30/05	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		03/30/05	10	EPA8260
Methylisobutylketone	ug/L	< 10		03/30/05	10	EPA8260
Chlorodifluoromethane	ug/L	< 1		03/30/05	1	EPA8260
p Diethylbenzene	ug/L	< 1		03/30/05	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/31/05	1	EPA8270
2-Methylnaphthalene	ug/L	< 1		03/31/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/31/05	1	EPA8270
Acenaphthene	ug/L	1		03/31/05	1	EPA8270
Fluorene	ug/L	< 1		03/31/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/31/05	1	EPA8270
Anthracene	ug/L	< 1		03/31/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/31/05	1	EPA8270
Pyrene	ug/L	< 1		03/31/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/31/05	1	EPA8270
Chrysene	ug/L	< 1		03/31/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/31/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/31/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/31/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/31/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/31/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/31/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6851 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1221	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1232	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1242	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1248	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1254	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1260	ug/L	< 1		04/02/05	1	EPA608

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.05 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1030
MATRIX:Water SAMPLE: B-1 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/L	< 0.5		04/01/05	0.5	EPA200.7
Arsenic as As	mg/L	2.3		04/01/05	0.25	EPA200.7
Beryllium as Be	mg/L	0.06		04/01/05	0.05	EPA200.7
Cadmium as Cd	mg/L	0.52		04/01/05	0.25	EPA200.7
Chromium as Cr	mg/L	3.3		04/01/05	0.25	EPA200.7
Copper as Cu	mg/L	45		04/01/05	0.5	EPA200.7
Lead as Pb	mg/L	130		04/01/05	0.25	EPA200.7
Mercury as Hg	mg/L	0.26		03/31/05	0.01	EPA245.2
Nickel as Ni	mg/L	2.6		04/01/05	0.5	EPA200.7
Selenium as Se	mg/L	0.16		04/01/05	0.08	EPA200.9
Silver as Ag	mg/L	< 0.25		04/01/05	0.25	EPA200.7
Thallium as Tl	mg/L	< 0.5		04/01/05	0.5	EPA200.7
Zinc as Zn	mg/L	130		04/01/05	0.5	EPA200.7
Barium as Ba	mg/L	39		04/01/05	0.25	EPA200.7

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6853 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.06 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1315
MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluoromethane	ug/L	< 1		03/30/05	1	EPA8260
Chloromethane	ug/L	< 1		03/30/05	1	EPA8260
Vinyl Chloride	ug/L	< 1		03/30/05	1	EPA8260
Bromomethane	ug/L	< 1		03/30/05	1	EPA8260
Chloroethane	ug/L	< 1		03/30/05	1	EPA8260
Trichlorofluoromethane	ug/L	< 1		03/30/05	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
Methylene Chloride	ug/L	< 1		03/30/05	1	EPA8260
t-1,2-Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,1 Dichloroethane	ug/L	< 1		03/30/05	1	EPA8260
2,2-Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
c-1,2-Dichloroethene	ug/L	< 1		03/30/05	1	EPA8260
Bromochloromethane	ug/L	< 1		03/30/05	1	EPA8260
Chloroform	ug/L	< 1		03/30/05	1	EPA8260
111 Trichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Carbon Tetrachloride	ug/L	< 1		03/30/05	1	EPA8260
1,1-Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
Benzene	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Trichloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
Dibromomethane	ug/L	< 1		03/30/05	1	EPA8260
Bromodichloromethane	ug/L	< 1		03/30/05	1	EPA8260
c-1,3Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
Toluene	ug/L	4		03/30/05	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6854 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.251023.06 04/06/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Ivy Hidalgo PO#:

SOURCE OF SAMPLE: Cooper Tank, #44440.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1315
MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/L	< 1		03/30/05	1	EPA8260
112 Trichloroethane	ug/L	< 1		03/30/05	1	EPA8260
Tetrachloroethene	ug/L	< 1		03/30/05	1	EPA8260
1,3-Dichloropropane	ug/L	< 1		03/30/05	1	EPA8260
Chlorodibromomethane	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dibromoethane	ug/L	< 1		03/30/05	1	EPA8260
Chlorobenzene	ug/L	< 1		03/30/05	1	EPA8260
Ethyl Benzene	ug/L	2		03/30/05	1	EPA8260
1112Tetrachloroethane	ug/L	< 1		03/30/05	1	EPA8260
m + p Xylene	ug/L	7		03/30/05	2	EPA8260
o Xylene	ug/L	4		03/30/05	1	EPA8260
Styrene	ug/L	< 1		03/30/05	1	EPA8260
Bromoform	ug/L	< 1		03/30/05	1	EPA8260
Isopropylbenzene	ug/L	< 1		03/30/05	1	EPA8260
Bromobenzene	ug/L	< 1		03/30/05	1	EPA8260
1122Tetrachloroethane	ug/L	< 1		03/30/05	1	EPA8260
123-Trichloropropane	ug/L	< 1		03/30/05	1	EPA8260
n-Propylbenzene	ug/L	< 1		03/30/05	1	EPA8260
2-Chlorotoluene	ug/L	< 1		03/30/05	1	EPA8260
135-Trimethylbenzene	ug/L	< 1		03/30/05	1	EPA8260
4-Chlorotoluene	ug/L	< 1		03/30/05	1	EPA8260
tert-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
124-Trimethylbenzene	ug/L	1		03/30/05	1	EPA8260
sec-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
p-Isopropyltoluene	ug/L	5		03/30/05	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
n-Butylbenzene	ug/L	< 1		03/30/05	1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
Dibromochloropropane	ug/L	< 1		03/30/05	1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1		03/30/05	1	EPA8260
Hexachlorobutadiene	ug/L	< 1		03/30/05	1	EPA8260
Naphthalene(v)	ug/L	84		03/30/05	1	EPA8260
123-Trichlorobenzene	ug/L	< 1		03/30/05	1	EPA8260
ter.ButylMethylEther	ug/L	< 1		03/30/05	1	EPA8260
p-Ethyltoluene	ug/L	< 1		03/30/05	1	EPA8260
Freon 113	ug/L	< 1		03/30/05	1	EPA8260
1245 Tetramethylbenz	ug/L	< 1		03/30/05	1	EPA8260
Acetone	ug/L	18		03/30/05	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		03/30/05	10	EPA8260
Methylisobutylketone	ug/L	< 10		03/30/05	10	EPA8260
Chlorodifluoromethane	ug/L	< 1		03/30/05	1	EPA8260
p Diethylbenzene	ug/L	< 1		03/30/05	1	EPA8260

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SOURCE OF SAMPLE:
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TIME COL'D:1315
MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	13		04/01/05	10	EPA8270
2-Methylnaphthalene	ug/L	< 10		04/01/05	10	EPA8270
Acenaphthylene	ug/L	< 10		04/01/05	10	EPA8270
Acenaphthene	ug/L	< 10		04/01/05	10	EPA8270
Fluorene	ug/L	< 10		04/01/05	10	EPA8270
Phenanthrene	ug/L	31		04/01/05	10	EPA8270
Anthracene	ug/L	< 10		04/01/05	10	EPA8270
Fluoranthene	ug/L	21		04/01/05	10	EPA8270
Pyrene	ug/L	18		04/01/05	10	EPA8270
Benzo(a)anthracene	ug/L	< 10		04/01/05	10	EPA8270
Chrysene	ug/L	< 10		04/01/05	10	EPA8270
Benzo(b)fluoranthene	ug/L	< 10		04/01/05	10	EPA8270
Benzo(k)fluoranthene	ug/L	< 10		04/01/05	10	EPA8270
Benzo(a)pyrene	ug/L	< 10		04/01/05	10	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 10		04/01/05	10	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 10		04/01/05	10	EPA8270
Benzo(ghi)perylene	ug/L	< 10		04/01/05	10	EPA8270

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REMARKS:

DIRECTOR

rn = 6857 NYSDOH ID # 10320

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LAB NO.251023.06 04/06/05

Gannett Fleming, Incorporated
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Locust Valley, NY 11560

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SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:03/28/05 RECEIVED:03/29/05
TIME COL'D:1315
MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1221	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1232	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1242	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1248	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1254	ug/L	< 1		04/02/05	1	EPA608
Aroclor 1260	ug/L	2		04/02/05	1	EPA608

cc:

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TIME COL'D:1315
MATRIX:Water SAMPLE: B-4 (GW)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Antimony as Sb	mg/L	< 0.5		04/01/05	0.5	EPA200.7
Arsenic as As	mg/L	1.2		04/01/05	0.25	EPA200.7
Beryllium as Be	mg/L	< 0.05		04/01/05	0.05	EPA200.7
Cadmium as Cd	mg/L	< 0.25		04/01/05	0.25	EPA200.7
Chromium as Cr	mg/L	2.5		04/01/05	0.25	EPA200.7
Copper as Cu	mg/L	21		04/01/05	0.5	EPA200.7
Lead as Pb	mg/L	44		04/01/05	0.25	EPA200.7
Mercury as Hg	mg/L	0.079		03/31/05	0.004	EPA245.2
Nickel as Ni	mg/L	2.2		04/01/05	0.5	EPA200.7
Selenium as Se	mg/L	0.14		04/01/05	0.04	EPA200.9
Silver as Ag	mg/L	< 0.25		04/01/05	0.25	EPA200.7
Thallium as Tl	mg/L	< 0.5		04/01/05	0.5	EPA200.7
Zinc as Zn	mg/L	49		04/01/05	0.5	EPA200.7
Barium as Ba	mg/L	23		04/01/05	0.25	EPA200.7

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 6859 NYSDOH ID # 10320

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS, P.C.

IVY HIDALGO-OLBERDING
Environmental Scientist

STEPHEN R. HIX
Director, Environmental Services

R:\CLERICAL\PROJECTS\44400\44440\254 Maspeth Ave. Phase I ESA.doc

COOPER TANK AND WELDING CORP.
BROOKLYN, NEW YORK

PHASE I ENVIRONMENTAL SITE ASSESSMENT
COOPER TANK TRANSFER FACILITY
254 MASPETH AVENUE
BROOKLYN, NEW YORK 11211

PROJECT # 44440.01
OCTOBER 2004

Office Location:

GANNETT FLEMING

480 Forest Avenue

Locust Valley, New York 11560

Office Contacts:

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Ivy Hidalgo-Olberding

(516) 671-8440

Offices Nationwide

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FIGURES

No.	Description
1	Site Location Map

APPENDICES

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APPENDIX B	EDR SITE ASSESSMENT REPORT
APPENDIX C	FIRE INSURANCE MAPS/CITY DIRECTORY ABSTRACT
APPENDIX D	AERIAL PHOTOGRAPHS
APPENDIX E	FREEDOM OF INFORMATION LAW REQUESTS

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1.0 INTRODUCTION

1.1 Executive Summary of Findings

Cooper Tank and Welding Corp. retained Gannett Fleming Engineers, P.C. (Gannett Fleming) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 254 Maspeth Avenue, Brooklyn, New York. The site assessment was performed to evaluate environmental conditions on the property associated with historical property use and current operations to satisfy the requirements of the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Designation E1527-00).*

The property consists of an unimproved vacant fenced lot with an exposed bare soil surface. Overgrown vegetation surrounds a majority of the lot. The property is situated in a predominantly industrial/commercial area of Brooklyn, New York. The surrounding properties include a former Brooklyn Union Gas tank yard, industrial properties to the west, and warehouses to the east and south.

The subject property is not identified in any of the Federal or State databases.

Based on the Phase I ESA performed for the property, the following recognized environmental condition (REC) was identified:

- Surficial soil staining was observed on-site during the site inspection.

The following sites present a *de minimis* environmental concern, and are not considered RECs but have the potential to impact the subject property by groundwater migration of off-site contamination. However, the shallow groundwater underlying the subject property has no known potable or other use.

- Six upgradient LTANK sites are listed as tank test failures or tank overfills. These sites lack a NYSDEC closure date.

- Review of the historical sanborn fire insurance maps revealed that the subject property and surrounding properties have a history as being utilized for manufacturing and industrial usage.

No Non-ASTM related building issues were observed.

1.2 Purpose

Cooper Tank and Welding Corp. retained Gannett Fleming on October 12, 2004 to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 254 Maspeth Avenue, Brooklyn, New York in accordance with ASTM E1527-00 protocol. The purpose of this Phase I ESA is to provide Cooper Tank and Welding Corp. with a description of any *recognized environmental conditions* (RECs) on the property.

As defined in ASTM E 1527-00, "the term *recognized environmental conditions* is defined as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property". The term *recognized environmental conditions* does not include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.3 Involved Parties

The involved parties concerned with this report include the potential buyer and current owner of the subject property.

- Cooper Tank Welding Corp.,
- Spencer (1997) Investment Limited Partnership, and
- Bank of America

1.4 Scope of Work

The Phase I ESA tasks included a site reconnaissance, interviews, computer database search of environmental compliance records, and review of historical information. Environmental Data Resources, Inc. (EDR) of Southport, Connecticut conducted the database search in accordance with ASTM search distances.

Freedom of Information Act (FOIA) requests were sent to federal, state, and local regulatory agencies to determine the regulatory status of the property.

In order for the client to quantify the level of acceptable *business environmental risk* associated with this commercial real estate transaction, several non-ASTM scope items were considered. These consist of:

- Asbestos-containing materials;
- Radon;
- Lead-Based Paint; and
- Wetlands

The additional assessment was limited in nature consisting to a visual inspection and EDR report review.

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2.0 GENERAL SITE CHARACTERISTICS

2.1 Property Location

The subject property is located at 254 Maspeth Avenue, Brooklyn, New York. The subject property is located in the USGS 7.5 minute quadrangle of Brooklyn, New York.

The property is located on the south side of Maspeth Avenue east of Vandervoort Avenue.

A site location map is presented in Figure 1.

2.2 Current Uses of Adjoining Properties

Maspeth Avenue and a former Brooklyn Union Gas tank yard bounds the Property to the north, a transfer station is located to the west, and warehouses to the south and east of the property.

2.3 Site Description and Current Site Uses of the Property/Operations

The subject property is currently occupied by Galasso Trucking Inc. and is used as a temporary storage lot for large machinery, roll-off trucks, HVAC units, refrigeration units, and a bulk petroleum storage tank.

The property is located in Kings County in a predominantly industrial/commercial area.

The subject property consists of an enclosed lot with an exposed bare soil surface.

3.0 ENVIRONMENTAL SETTING

3.1 Regional Physiographic Conditions

The subject property is approximately 14 feet above mean sea level. The general topographic and assumed hydraulic gradient at the property is to the southeast towards English Kills, which ultimately discharges to the East River.

No wetlands, surface water bodies, or other ecologically sensitive areas were identified on the subject property during the site reconnaissance.

3.2 Soil Conditions

Surficial soils in the area are generally loamy sands, silty loams, sandy loams and fine sandy loams.

Soil conditions typically underlying the industrial Brooklyn area surrounding the subject property are typically composed of fill materials. These fill materials generally consist of a heterogeneous mix of brick, wood chips, and asphalt. These materials generally have a higher level of contamination levels than a residential area would contain and may include poly aromatic hydrocarbons (PAH's).

3.3 Geologic Conditions

The subject Property is located in Kings County on western Long Island. In general the Property is underlain by a sequence Pleistocene and Cretaceous aged unconsolidated glacial deposits including sands, gravels, clays and silts. Of the four aquifers existing on Long Island only the Upper Glacial (water table) aquifer is evident at the subject Property. It consists of tills, outwash, glaciolacustrine, and marine deposits. This aquifer is in turn underlain by the

Pleistocene Gardiners Clay consisting of clays and silts and layers of sand and gravel. Bedrock is encountered at approximately 100 feet and is composed of crystalline metamorphic and igneous rocks consisting of muscovites, biotite schists, gneisses and granites and is found lying in a southeastward slope.

Site-specific groundwater depth and flow direction can only be determined by a focused hydrogeologic study, which is beyond the scope of this Phase I site assessment. However, groundwater in this area is cited to be at a depth of approximately 9 to 12 feet below grade based on information from United States Geological Survey (USGS) Fact Sheet #134-97 and the approximate site elevation provided by EDR.

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4.0 RESULTS OF INVESTIGATION

4.1 Site Inspection Observations

Gannett Fleming representative Ivy Hidalgo-Olberding performed the property reconnaissance on October 14, 2004.

The subject property is currently utilized as a temporary storage lot for large machinery, roll-off trucks, HVAC units, refrigeration units, and a bulk petroleum storage tank.

4.2 Description of Structures, Roads, and Other Improvements on the Site

The lot is L shaped with an exposed bare soil surface. No improvements were observed during the site inspection.

No evidence of hazardous waste handling or disposal was observed during the site reconnaissance.

No evidence of poly-chlorinated biphenyls (PCB) containing materials such as transformers were identified during the site reconnaissance.

Site photographs of the property are presented in Appendix A.

4.3 Adjacent Site and Vicinity Observations

The surrounding properties include a former Brooklyn Union Gas tank yard located to the north of the property. A transfer station is located to the west, and industrial/commercial properties occupy the buildings to the west, and warehouses to the south.

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4.4 Results of Regulatory Agency List Review and File Research

The subject property is not listed in any of the federal or state databases.

Regulatory Database Review

Environmental Data Resources, Inc. (EDR) of Southport, Connecticut was retained to provide a computerized database search of the project area in accordance with ASTM E1527-00 standards for search distance and accuracy. The EDR database search is included in Appendix B. The database output was reviewed to determine if the site appears on the following lists:

Federal List

- National Priorities List (Superfund)
- Proposed NPL
- Comprehensive Environmental Response Compensation & Liability
- Information System (CERCLIS)
- CERCLIS – No Further Remedial Action Planned (CERCLIS-NFRAP)
- Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD)
- RCRA Small and Large Quantity Hazardous Waste Generators (SQG, LQG)
- RCRA Corrective Action Activity (CORRACTS)
- Emergency Response Notification System (ERNS)
- Facility Index System (FINDS)
- Material Licensing Tracking System (MLTS)
- Superfund (CERCLA) Consent Decrees (CONSENT)
- Record of Decision (ROD)
- National Priorities List Deletions (Delisted NPL)
- Hazardous Materials Information Reporting System (HMIRS)
- Mines Master Index Files (MINES)
- Federal Superfund Liens (NPL Liens)
- PCB Activity Database System (PADS)

- Lisiting of Brownfields Sites (US BROWNFIELDS)
- Listing of Indian Reservations (INDIAN RESERV)
- Uranium Mill Tailing Sites (UMTRA)
- Department of Defense Sites (DOD)
- RCRA Administrative Action Tracking System (RAATS)
- Toxic Chemical Release Inventory System (TRIS)
- Toxic Substance Control Act (TSCA)
- Section Seven Tracking Systems (SSTS)
- Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA)/ Toxic Substances
- Control Act (TSCA) Tracking System (FTTS)

State List

- State Hazardous Waste Sites (SHWS)
- Permitted Solid Waste Disposal Facilities/Landfill (SWF/LF)
- Leaking Storage Tank Incidents (LTANKS)
- Registered Petroleum Bulk Storage Sites (UST/AST)
- Chemical Bulk Storage (CBS) Database (UST/AST)
- Voluntary Cleanup Program Applicants/Participants (VCP)
- Major Oil Storage Facility (MOSF)
- Registered Waste Tire Storage & Facility List (SWTIRE)
- Registered Recycling Facility List (SWRCY)
- New York Spills (NY SPILLS)
- Hazardous Substance Waste Disposal Site Inventory (HSWDS)
- Delisted Registry Sites (DEL SHWS)

Proprietary List

- Former Manufactured Gas Sites (Coal Gas)

Federal and State Database Sites

- Three CERCLIS sites have been identified within the ASTM search distance. The CERCLIS list includes sites that are either on or proposed to be on the National Priorities List. One site, *BCF Oil Refining, Inc.*, is located 1/4 - 1/2 mile downgradient (east-northeast) of the subject property. Two other sites are listed as No Further Remedial Action Planned (NFRAP), indicating that the no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund Action or NPL consideration. Since these sites are located downgradient from the subject property, environmental impacts to the subject property are not anticipated. These sites are not considered RECs.

- One RCRIS-LQG site has been identified within the ASTM search distance. The site is *Jos H Lowenstein & Sons Incorp.*, located 1/8 - 1/4 mile west-northwest of the subject property, which is presumed to be upgradient from the subject property. This site has been issued six violations all of which have been complied with. This site is not likely to impact the environmental conditions on the subject property and is not considered a REC.

- Seven RCRIS-SQG sites are identified within the ASTM search distance. These sites have been listed with either no violations or violations, which have been complied with. These sites are not anticipated to environmentally impact the subject property at this time and are not considered RECs.

- Two SHWS sites are listed within the ASTM search distance. These sites are as follows: *B.C.F. Oil Refining, Inc*, located 1/4-1/2 mile east-northeast of the subject property; and *Phelps Dodge Refining Corp.*, located 1/2-1 mile northeast of the subject property. Since these sites are either located cross/downgradient of the subject property or do not have any recorded violations, impacts to the subject property are not anticipated and are not considered RECs.

- Eleven SWF/LF sites are identified within the ASTM search distance. These sites have no recorded violations and impacts to the environmental conditions on the subject property are not likely. These sites are not considered RECs.

- Thirty LTANKS sites have been identified within the ASTM search distance. Of the thirty listed LTANK sites, fourteen sites are located down/cross-gradient of the subject property, not within the inferred groundwater flow path. Ten of the remaining sixteen sites have been listed as cleaned up to the satisfaction of NYSDEC and closed.

  Six sites are located upgradient or adjacent to the site, and are as follows:

Site Name	Location in Reference to Subject Property
Jos H Lowenstein & Son	0 to 1/8 mile west-northwest
Cooper Park Housing	1/8 to 1/4 mile west
287 Maspeth Ave	1/8 to 1/4 mile northeast
Greenpoint Energy Facility	1/8 to 1/4mile northeast
Sunoco S/S	1/4 to 1/2 mile west
308 Maujer Steet	1/4 to 1/2 mile south-southwest

  All six upgradient sites are listed as tank test failures or tank overfills without a listed NYSDEC closure date. Due to the lack of closure dates, and their presumed upgradient location, these sites could potentially be a source of contamination on the subject property. However, groundwater is not used as a potable water supply in this area. These sites present a *de minimis* environmental concern, and are not considered RECs.

- Ten UST sites are identified within the ASTM search distances. Three of the ten listed sites are located upgradient to the subject property. One of these is listed as closed the remaining two are: *Joseph H Lowenstein & Sons Inc.,* located 1/8 to 1/4 mile west-northwest and *Cooper Park,* located 1/8 to 1/4 mile to the west of the subject property.

The remaining seven listed UST sites are located downgradient to the subject property. The presence of registered storage tanks does not indicate an area of environmental concern unless the tanks have leaked product into the subsurface. Based on the database review there is no reason to conclude the storage tanks have had a negative impact on the subject property and are not considered RECs.

- Eight MOSF UST/AST sites were listed within the ASTM search distances. These registered onshore facilities or vessels may contain petroleum storage capacities of 400,000 gallons or greater. Since these sites are either located down or cross gradient to the subject property and currently listed as in compliance, these sites are not likely to affect the environmental conditions on the subject property and are not considered RECs.

- Three VCP/Brownfields sites were identified within the ASTM search distances. Two of these sites: *Greenpoint Energy Facility* and *Greenpoint Center,* located at 287 Maspeth Avenue are upgradient to the subject property and within the inferred groundwater flow path of the subject property. These sites could potentially be a source of contamination on the subject property. However, these sites are in the process of remediation and groundwater is not used as a potable water supply in this area. These sites present a *de minimis* environmental concern, and are not considered RECs.

- Two HSWDS sites are identified within the ASTM search distance. The three HSWDS sites are as follows: *Brooklyn Equity Works* located 0-1/8 mile east-northeast of the subject property on Maspeth and Morgan Avenues and *Greenpoint Energy Facility*, located 0-1/8 mile west of the subject property. Both sites were former coal gasification sites. By products from this industry includes hydrocarbons, which were found in the soils at these sites. The hydrocarbons at the Brooklyn Equity Works facility were reportedly removed when the facility was decommissioned in 1928. Due to the inferred groundwater flow path at the subject property, these sites could potentially be a source of contamination on the subject property. However, groundwater is not used as a potable water supply in this area and therefore, these sites present a *de minimis* environmental concern, and are not considered RECs.

- Seven NY Spills sites are located within the ASTM search distance. Four of these sites are listed as closed by NYSDEC and one site is located south and downgradient of the subject property. The two remaining sites are located at: *Maspeth Avenue/Vandervoort Avenue,* and *301 Vandervoort Avenue.* These sites are located upgradient or cross gradient to the subject property. Both these sites have surface releases that do not typically travel beyond the immediate vicinity of the spill area. Due to the nature of the release, impacts to the subject property are not expected and these sites are not considered RECs.

- One coal gas site was identified within the ASTM search radius. The site, *Settle Brothers Tannery*, is located 1/2 to 1 mile southeast downgradient of the subject property. Therefore, impacts to the subject property are not expected and this site is not considered a REC.

Regulatory File Review

Freedom of Information Act requests (FOIA) were sent to the United States Environmental Protection Agency (Region II), the New York State Department of Environmental Conservation (Region II), the New York City Department of Environmental Protection (NYCDEP), the New York City Department of Health (NYCDOH), New York City Department of Buildings (NYCBOD), and the New York City Fire Department (NYCFD).

- USEPA – Results of file search are pending.

- NYSDEC– Results of file search are pending.

- NYCDEP – Results of file search are pending.

- NYCDOH – Results of file search are pending.

- NYCBOD – Results of file search are pending.

- NYCFD – Results of file search are pending.

Copies of the requests and responses are included in Appendix E.

The agencies usually take six to eight weeks to process FOIA requests. Any relevant responses from the remaining regulatory agencies will be reviewed and forwarded upon receipt.

4.5 Results of Site History /Land Use Review

According to the Historical Sanborn Fire Insurance Maps, the subject property was vacant in the 1888 map, then developed since at least 1907 by Brooklyn Union Gas Co. through 1933. The property has been noted as vacant from 1951 through 1995.

4.5.1 Personal Interviews

An interview with Mr. Ray Kvedaras, general manager of the Copper Tank Transfer facility, was conducted as part of this Phase I ESA. Mr. Kvedaras explained the vacant lot is used as temporary storage space for large machinery.

4.5.2 Site Records Review

No records were reviewed at the time of site inspection.

4.5.3 Building Department Records Reviews

FOIA requests were submitted to the NYCDOB, results of the file search are pending.

4.5.4 Aerial Photograph Review

Aerial photographs were obtained and reviewed for the years 1954, 1966, 1975, 1984, and 1994. No RECs were established from the aerial photographs. Copies of the aerial photographs are provided in Appendix D.

4.5.5 Fire Insurance Map Review

In order to ascertain prior usage and ownership information at the above-mentioned property, requests were made to Environmental Data Resources (EDR) for Sanborn Fire Insurance Maps.

Sanborn Fire Insurance Maps from the years 1888, 1907, 1933, 1951, 1965, 1968, 1977, 1979, 1980, 1981, 1982, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1994, and 1995 were obtained and reviewed. The following is a summary of the subject and surrounding properties as depicted on the Sanborn Fire Insurance Maps:

1888 The subject property is vacant and shows no signs of development. Surrounding properties include: Bushwick varnish works on the corner of Calhoun Street and Grand Avenue to the south, to the south east is a lumber yard and a brickyard.

1907 The subject property is occupied by Brooklyn Union Gas Company, which contains a gas holding tank and two above ground tanks with unknown content. The surrounding properties consist of J.R. Crombie & Co. storage facility, Joseph A. Solan Saw and Planing Mill, J.A. Crombie & Co., and Rader Fire Proofing Co. to the south and, Standard Rope and Twine Co. to the west.

1933 The subject property is now vacant. The surrounding properties appear as the 1907 map with the development of Egg Yolk Mfg. on the western section of the subject block. The property occupied by J.R. Crombie & Co. and Joseph A. Solan on the 1907 map is occupied by Chapman Dock Co. The property to the west depicted as Standard Rope and Twine Co. on the 1907 map is occupied by The Lignum Chemical Works. The lots south

of The Lignum Chemical Works are occupied by Oxford Filing Supply Co. and a fur dying facility.

1951 The subject property remains essentially the same as the 1933 map. The Lignum Chemical Works is occupied by Royal Yarn Dyeing Corp. and the fur dying facility is occupied by Globe Products Co.

1965 The subject property remains vacant. The property directly to the west is noted as storage. Properties further west are noted as valve storage facilities. Properties to the south are occupied by the Newtown Creek Development with the Salwen Paper Co, Inc and the Lack Carpet Co.

1968 The subject property and surrounding properties remains the same as the 1965 map.

1977 The subject property remains vacant. The surrounding properties to the west remain essentially the same as the 1951 map. The Chapman Dock Co. located south of the subject property is now occupied by Salwen Paper Co, Inc and Lack Carpet Co.

1979 The subject property and surrounding properties remain essentially the same as the 1977 map.

1980 The subject property and surrounding properties remain essentially the same as the 1979 map.

1981 The subject property and surrounding properties remain essentially the same as the 1977 map.

1982 The subject property and surrounding properties remain essentially the same as the 1981 map.

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1986 The subject property block is now vacant with the exception of 252 Maspeth Avenue, which is still occupied by as a storage facility.

1987 The subject property and surrounding properties remain essentially the same as the 1986 map.

1988 The subject property and surrounding properties remain essentially the same as the 1987 map.

1989 The subject property is noted as utilized for garbage transfer storage. Surrounding properties remain essentially the same.

1990 The subject property and surrounding properties remain the same as the 1989 map.

1991 The subject property and surrounding properties remain the same as the 1990 map.

1992 The subject property and surrounding properties remain the same as the 1991 map.

1993 The subject property remains vacant; the property to the immediate west remains noted as storage, and the property at 222 Maspeth Avenue is noted as a garbage transfer storage facility. The surrounding properties remain essentially the same as the 1981 map.

In summary, the Sanborn Fire Insurance Maps indicate that the subject property was vacant in 1888, then developed since at least 1907 by Brooklyn Union Gas Co. through 1933. The property has been noted as vacant from 1951 through 1995. Surrounding property usage has been primarily manufacturing and industrial. Since the subject property and surrounding properties have a history as being utilized for manufacturing and industrial usage, the subject property may be impacted. However, the historic usage of the subject and surrounding properties present a *de minimis* environmental concern, and are not considered RECs but have the potential to impact the subject property by groundwater migration of off-site contamination.

Additionally, the shallow groundwater underlying the subject property has no known potable or other use.

Copies of the Sanborn Fire Insurance Maps are provided in Appendix C.

4.6 City Directory Abstract

Gannett Fleming obtained a City Directory Abstract from EDR in order to ascertain prior usage information for the subject property.

The Directory Abstract provided by EDR lists does not list subject property on any of the years. Listings were not provided for every year, and do not necessarily provide site ownership information. The surrounding properties are listed as: Schebler, Jos., Egg Yolk Manufacturer at 218 Maspeth Avenue and Phillip Carr, Bohner Varnish Co. at 221 Maspeth Avenue. Both of these properties are listed for the year 1934. For the address 222 Maspeth Avenue, Cooper Tank Transfer Station is listed in 1997 and Cooper Tank Transfer in 2000.

Copies of the City Directory Abstract are provided in Appendix C.

4.7 Synopsis of Previous Environmental Investigations

No previous environmental investigation reports were provided to Gannett Fleming.

4.8 Results of Suspect ACM Observations

The subject property was unimproved and no suspect ACM was observed.

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4.9 Results of Radon Investigations

The subject property consists of a vacant temporary storage lot. No improved structures exist on the property; therefore radon would not be a concern pertaining to the environmental conditions of the site.

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5.0 CONCLUSIONS

Gannett Fleming had performed this Phase I *Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 for the property located at 254 Maspeth Avenue, Brooklyn, New York, the *subject property*. Any exceptions to, or deletions from, this practice are described in Section 7.0 of this report.

This assessment has revealed the following evidence of *recognized environmental condition* (REC) in connection with the subject property:

- Surficial soil staining was observed on-site during the site inspection indicative of vehicle or machinery equipment leaks of oils or other fluids.

Gannett Fleming recommends that a Phase II investigation be performed to investigate potential soil and groundwater contamination due to the soil staining at the subject property.

The following sites present a *de minimis* environmental concern, and are not considered RECs but have the potential to impact the subject property by groundwater migration of off-site contamination. However, the shallow groundwater underlying the subject property has no known potable or other use.

- Six upgradient LTANK sites are listed as tank test failures or tank overfills. These sites lack a NYSDEC closure date.

- Review of the historical sanborn fire insurance maps revealed that the subject property and surrounding properties have a history as being utilized for manufacturing and industrial usage.

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6.0 RECOMMENDATIONS / COST ESTIMATES

Gannett Fleming recommends that a Phase II investigation be performed to investigate potential soil and groundwater contamination due to the current findings (stained soil) and the historical use of the subject property.

We are aware that a Phase II has been recently performed on the subject property by the owner, however, we have not received or reviewed the final report.

Our recommendations are to include a characterization of subsurface conditions at the site.

Additional inquiry would include Phase II soil borehole advancement and sample collection using a Geoprobe drill rig. We recommend that four boreholes be advanced to groundwater, and will be continuously sampled and field screened for the detection of any possible contamination. One grab soil sample will be collected from the bottom of each borehole or at the point demonstrating the most petroleum contamination. Two groundwater samples would also be collected from two of the four boreholes. Soil and groundwater samples will be collected using decontaminated equipment and submitted to a New York State Department of Health certified laboratory for analysis of volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs).

Cost of Phase II Activities

Engineering Fee	$2,500
Drilling Fee	$1,500
Analytical Fee	$3,000
	$7,000

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The fee assumes that the site work will be completed in one day, with four soil samples and two groundwater samples collected and submitted for a laboratory standard analytical turn-around-time of ten business days.

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7.0 LIMITATIONS

This Phase I ESA report is based partially on information obtained from others and Gannett Fleming makes no representation or warranty concerning the accuracy or completeness of this information in describing site operations or environmental conditions. Some of the information presented in this report may be subject to varying interpretations and conclusions. The information contained in this report was developed from information available and conditions observed on the survey date. Gannett Fleming is not liable for financial or other losses or subsequent damage caused by or related to any use of this document.

This report was prepared for the sole use of Cooper Tank and Welding Corp. Any other distribution, without Gannett Fleming's written consent, is prohibited.

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8.0 REFERENCES

Environmental Data Resources, *EDR Radius Map with GeoCheck,* 254 Maspeth Avenue, October 14, 2004.

Environmental Data Resources, *Aerial Photographs,* 254 Maspeth Avenue.

Environmental Data Resources, *Topographic Maps,* 254 Maspeth Avenue.

Environmental Data Resources, *Historical Sanborn Maps,* 254 Maspeth Avenue.

USGS *Water-Table Altitude in Kings and Queens Counties, New York, in March 1997* Fact Sheet.

USGS *Hydrogeologic Framework of Long Island, New York, 1989.*

USGS *Thickness and Hydrogeology of Aquifers and Confining Units Below the Upper Glacial Aquifer on Long Island, New York, 1987.*

USGS *Water-Table and Potentiometric-Surface Altitudes of the Upper Glacial, Magothy, and Lloyd Aquifers on Long Island, New York, in March-April 1997, with a Summary of Hydrogeologic Conditions, 1998.*

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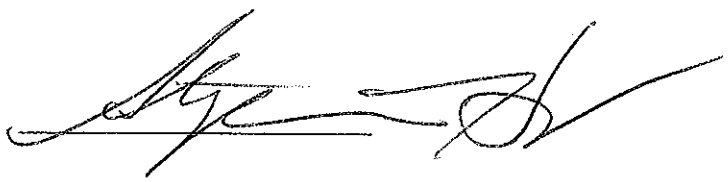
9.0 SIGNATURE AND QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL(S)

This Phase I Environmental Site Assessment has been prepared by:

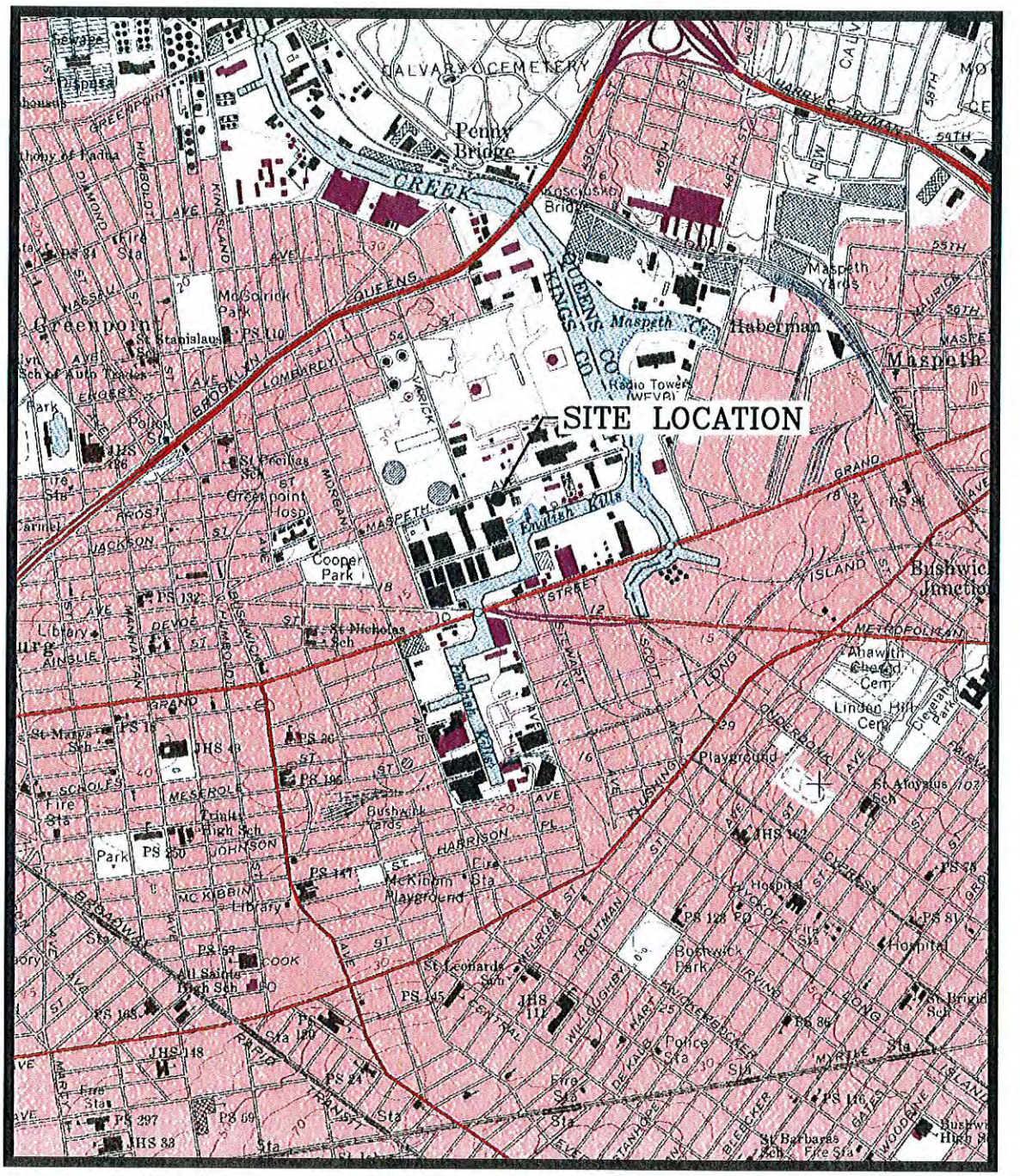


IVY HIDALGO-OLBERDING
Environmental Scientist



STEPHEN R. HIX
Director, Environmental Services

254 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

SN44440B
102704

APPENDIX A

SITE PHOTOGRAPHS

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254 MASPETH AVENUE

PHOTO LOG



View of property facing northwest surficial stains on soil



View of property facing south

254 MASPETH AVENUE

PHOTO LOG



View of property facing west with Refrigeration Unit and HVAC Unit



View of property facing east with crane and 5,000 gal UST

APPENDIX B **EDR SITE ASSESSMENT REPORT**

APPENDIX C **SANBORN FIRE INSURANCE MAPS**

APPENDIX D **AERIAL PHOTOGRAPHS**

(SEE ATTACHED CD)

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APPENDIX E

FREEDOM OF INFORMATION REQUESTS AND RESPONSES

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Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

November 1, 2004
File # 44440.001

Mr. William Hewitt
Regional Records Access Officer
New York State Department of
Environmental Conservation, Region II
47-40 21st Street
Long Island City, New York 10035

Re: Freedom of Information Request

Dear Mr. Hewitt:

Gannett Fleming requests copies of environmental files, records, and memoranda concerning the following property.

254 Maspeth Avenue
Brooklyn, New York 11211

This information should include:
1) past and present underground storage tank registration(s);
2) reported spills or releases of hazardous substances;
3) generation, storage, treatment, or disposal of hazardous substances;
4) past and present groundwater, surface water, and soil investigations; and
5) environmental permits/violations.

Please do not hesitate to call should you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

IVY HIDALGO-OLBERDING
Project Manager

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Gannett Fleming

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November 1, 2004
File # 44440.001

Ms. Maria Dooley
Freedom of Information Officer
New York City Department
of Environmental Protection
Bureau of Legal and Legislative Affairs
59-17 Junction Blvd., 19th Floor
Elmhurst, New York 11373-5107

Re: Freedom of Information Request

Dear Ms. Dooley:

Gannett Fleming requests copies of environmental files, records, and memoranda concerning the following property:

254 Maspeth Avenue
Brooklyn, New York 11211

This information should include:

1) past and present underground storage tank registration(s);
2) reported spills or releases of hazardous substances;
3) generation, storage, treatment, or disposal of hazardous substances;
4) past and present groundwater, surface water, and soil investigations; and
5) environmental permits/violations.

Please do not hesitate to call should you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

IVY HIDALGO-OLBERDING
Project Manager

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www.gannettfleming.com

November 1, 2004
File # 44440.001

Mary O'Sullivan, Records Access Officer
New York City Fire Department, Legal Affairs
250 Livingston Street, Room 439
Brooklyn, New York 11201

Re: Freedom of Information Request

Dear Ms. O'Sullivan:

Gannett Fleming requests copies of environmental files, records, and memoranda concerning the following property:

254 Maspeth Avenue
Brooklyn, New York 11211

This information should include:

1) past and present underground storage tank registration(s);
2) reported spills or releases of hazardous substances;
3) generation, storage, treatment, or disposal of hazardous substances;
4) past and present groundwater, surface water, and soil investigations; and
5) environmental permits/violations.

Please do not hesitate to call should you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

IVY HIDALGO-OLBERDING
Project Manager

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November 1, 2004
File # 44440.001

New York City Building Department
126-06 Queens Boulevard
Kew Gardens, New York 11415

Re: Freedom of Information Request

Dear Madam or Sir:

Gannett Fleming requests copies of environmental files, records, and memoranda concerning the following property:

254 Maspeth Avenue
Brooklyn, New York 11211

This information should include:

1) Certificate of Occupancy records;
2) building permit records;
3) county tax records and maps;
4) deed and lease records;
5) past and present underground storage tank registration(s);
6) reported spills or releases of hazardous substances;
7) generation, storage, treatment, or disposal of hazardous substances;
8) past and present groundwater, surface water, and soil investigations; and
9) environmental permits/violations.

Please do not hesitate to call should you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

Ivy Hidalgo-Olberding

IVY HIDALGO-OLBERDING
Project Manager

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www.gannettfleming.com

November 1, 2004
File # 44440.001

Ms. Patricia Caruso
New York City Department of Health
125 Worth Street
New York, New York 10013

Re: Freedom of Information Request

Dear Ms. Caruso:

Gannett Fleming requests copies of environmental files, records, and memoranda concerning the following property:

254 Maspeth Avenue
Brooklyn, New York 11211

This information should include:

1) past and present underground storage tank registration(s);
2) reported spills or releases of hazardous substances;
3) generation, storage, treatment, or disposal of hazardous substances;
4) past and present groundwater, surface water, and soil investigations; and
5) environmental permits/violations.

Please do not hesitate to call should you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

IVY HIDALGO-OLBERDING
Project Manager

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254 Maspeth Previous Reports

PHASE II ENVIRONMENTAL
SUBSURFACE INVESTIGATION
PROPERTY LOCATED AT
254 MASPETH AVENUE
BROOKLYN, NEW YORK

October 26, 2004
Project No.: 04729

Prepared for:

SPENCER REALTY CORPORATION
2 GALASSO PLACE
MASPETH, NEW YORK

&

COPPER TANK & WELDING
215 MOORE STREET
BROOKLYN, NEW YORK

EEA Inc.
55 Hilton Avenue
Garden City, New York 11530
(516) 746-4400
(212) 227-3200

PHASE II ENVIRONMENTAL SUBSURFACE INVESTIGATION
254 MASPETH AVENUE
BROOKLYN, NEW YORK

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Table 2 Soil Analytical Results: Semi-Volatile Organic Compounds
Table 3 Soil Analytical Results: RCRA Metals

FIGURES: **Figure 1: Site Location Plan**

APPENDIX:
A. Chain-of-Custody Record
B. Laboratory Data Sheets
C. Soil Boring Log Reports
D. Site Photographs

EXECUTIVE SUMMARY

This investigation was completed based on EEA's proposal to perform a Phase II Subsurface Investigation (dated September 7, 2004) at 254 Maspeth Avenue in Brooklyn, New York. The subject property is a vacant lot approximately 28,000 square feet in area. A sampling and analysis program was designed to determine if prior and/or present uses on the subject property have impacted the subsurface soils and environment. The sampling and analysis plan consisted of soil quality testing using analytical test methods consistent with expected parameters and agency soil cleanup guidelines. The following presents an evaluation of our investigation.

Since the subject property is a vacant lot, a total of six (6) soil borings (B-1, B-2, B-3, B-4, B-5 and B-6) were advanced on-site in areas of access since the site was being used as a repository of trucks and other vehicle related parts. Soil samples were collected from soil boring B-1 from the 4 to 8 feet depth interval and the 8 to 12 feet depth interval to characterize subsurface conditions on-site. Soil samples were collected between the 0 to 4 feet depth interval in borings B-2, B-3, B-4, B-5 and B-6. Soil samples were collected and tested for volatile organic compounds (VOCs) using USEPA Method 8260, semi-volatile organic compounds via USEPA Method 8270 (STARS List) and the RCRA Metals. Laboratory analysis of soil samples detected SVOCs in all six borings above the New York State Department of Environmental Conservation's (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) soil cleanup criteria. Laboratory analysis of soil samples also detected various RCRA metals (arsenic, barium, cadmium, chromium and mercury) in all six borings above NYSDEC TAGM soil guidelines as well as above Eastern US Background levels for this region. There were also several detections for VOCs in two soil borings (B-2 and B-3), however the detection levels were well below NYSDEC TAGM soil cleanup guidelines.

This property is located in a commercial use area and the soils underlying the property are composed of fill material consisting of brick, wood chips and asphalt materials intermixed with sand, gravel and soil. This type of fill material is common in industrial areas of Brooklyn and New York City. These materials commonly show higher contamination levels than other areas. EEA finds similar results in other properties it has investigated in the region. Based on the findings, EEA has no recommendation for additional testing or remediation for the site.

The NYSDEC has developed the TAGM "guidelines" in order for DEC case managers to determine potential cleanup recommendations at various sites though out the state. The NYSDEC

considers each site on a case-by-case basis in consideration of the property usage and its location to sensitive human, wildlife and environmental interests. Industrial/Commercial properties are treated differently than residential or environmentally-sensitive areas.

I. INTRODUCTION

a. Background

This investigation was completed based on EEA's proposal to perform a Phase II Subsurface Investigation (dated September 7, 2004) at 254 Maspeth Avenue in Brooklyn, New York. The subject property is a vacant lot, approximately 28,000 square feet in area. A sampling and analysis program was designed to determine if prior and/or present uses on the subject property have impacted the subsurface soils quality. The sampling and analysis plan consisted of soil testing using analytical test methods consistent with expected parameters and agency soil cleanup guidelines.

EEA initiated field activities September 20, 2004 and all Phase II activities were completed by that day. The site was located at 254 Maspeth Avenue in Brooklyn, New York (see Figure 1). This report summarizes the work performed, the results of the investigation, and the recommended remedial action.

II. SCOPE OF WORK PERFORMED

a. Health and Safety Plan

EEA uses a company Generic Health and Safety Plan for all investigative work relating to performing Phase II Environmental Subsurface Investigations. The HASP assigns responsibilities, establishes personal protection standards, recommends operating procedures, and provides for contingencies that may arise during performance of the assessment at the site. The protocols in the HASP apply to all personnel involved in the work activities including EEA, all outside subcontractors, client, or regulatory agencies present during the performance of the work. In addition, the following safety equipment is maintained on-site for responding to potential emergency situations: portable eyewash, ABC fire extinguisher, and first aid kit. Telephone numbers of emergency response units in the area are also posted where all those working at the site can easily see them. All personnel working at the site will also be required to receive training in respirator fitting, emergency procedures, equipment decontamination, and specific task procedures. All personnel involved with the collection of soil or water will have successfully completed the 40-hour OSHA Hazardous Materials Training Program.

b. Subsurface Utility Location, Permits and Bonding

EEA notified the New York City/Long Island One Call Center under the New York State Regulation Code 753 prior to initiating the work to identify the location of underground utilities in the vicinity of the proposed boring locations. Confirmation number 2580372 was assigned to

the site. Any permits for soil boring were obtained from the local agencies. In addition, any license and permit bonding required was secured for the work.

c. Investigation Work Summary

All soil sampling was completed using a Geoprobe Model 54LT using the *Macrocore* soil sampling system. Samples were field screened for volatile organic vapors using an organic vapor meter (OVM).

d. Soil Sampling Summary

As specified in the Proposal, six (6) soil borings were advanced on-site; seven (7) soil samples were submitted for laboratory analysis. Soil samples were collected from soil boring B-1 from the 4 to 8 feet depth interval and the 8 to 12 feet depth interval to characterize subsurface conditions on-site. Soil samples were collected between the 0 to 4 feet depth interval in borings B-2, B-3, B-4, B-5 and B-6. The soil samples each boring transferred directly into sterilized laboratory glassware. The samples were sent to the laboratory and were tested for:

VOCs (USEPA Method 8260),
SVOCs (USEPA Method 8270 STARS List),
RCRA Metals

e. Site Characteristics

Soils at the site consisted of fill material up to 11 feet below grade (fbg) comprised of brown soil, red brick chips, asphalt chips, wood remnants, fine to medium grained sand, gravel and clay. Possibly native material was encountered in boring B-1 at 11 fbg comprised of fine-grained, brown sand and clay. Groundwater was also encountered at this one boring at approximately 9 fbg.

Kings County, the location of the site, is underlain by a sequence of unconsolidated deposits of Pleistocene and Cretaceous age, overlying a southward dipping bedrock. The thickness of these unconsolidated deposits ranges from a few hundreds feet in the northwestern sections of Long Island to 2,000 feet along the south shore barrier beaches. These deposits form the four aquifers and two confining units. The four aquifers are the upper glacial, the Jameco, the Magothy and the Lloyd. The upper glacial (water-table) aquifer, the only aquifer encountered on-site, consists of till, outwash, glaciolacustrine and marine deposits. Bedrock underlies the Cretaceous deposits and, in some areas, the Pleistocene deposits and constitutes the lower boundary of the Lloyd Aquifer. Bedrock is composed of crystalline metamorphic and igneous rocks, muscovite-biotite schist, gneiss and granite. Since bedrock is at depth in all areas of Long Island, no outcrops were encountered on-site.[1]

III. RESULTS OF LABORATORY ANALYSES

EcoTest Laboratories, Inc. (NYSDOH Certification #10320) prepared the results of the soil samples. Tables 1, 2 and 3 present a summary of the results and a comparison to New York State Department of Environmental Conservation (NYSDEC) STARS Memo #1 and Technical and Administrative Guidance Manual (TAGM) cleanup guidelines. The chain-of-custody records, as well as the analytical laboratory data sheets, are presented in the Appendix to this report.

The soil sample collection locations are presented in Figure 1. The soil boring report logs present the field observations made at each soil boring location are also presented in the Appendix to this report. Site photographs were taken during field activities and are presented in the Appendix.

IV. FINDINGS AND CONCLUSIONS

a. Soil Sampling Summary

Laboratory analysis of soil samples detected SVOCs in all six borings above the New York State Department of Environmental Conservation's (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) soil cleanup criteria (see Table 2). Laboratory analysis of soil samples also detected various RCRA metals (arsenic, barium, cadmium, chromium and mercury) in all six borings above NYSDEC TAGM soil guidelines as well as above Eastern US Background levels for this region (see Table 3). There were also several detections for VOCs in two soil borings (B-2 and B-3), however the detection levels were well below NYSDEC TAGM soil cleanup guidelines (see Table 1).

V. RECOMMENDATIONS

This property is located in a commercial use area and the soils underlying the property are composed of fill material consisting of brick, wood chips and asphalt materials intermixed with sand, gravel and soil. This type of fill material is common in industrial areas of Brooklyn and New York City. These materials commonly show higher contamination levels than other areas. EEA finds similar results in other properties it has investigated in the region. Based on the findings, EEA has no recommendation for additional testing or remediation for the site.

The NYSDEC has developed the TAGM "guidelines" in order for DEC case managers to determine potential cleanup recommendations at various sites though out the state. The NYSDEC considers each site on a case-by-case basis in consideration of the property usage and its location to sensitive human, wildlife and environmental interests.

VI. SAMPLING METHODOLOGY

a. Quality Assurance and Quality Control QA/QC Plan

EEA implements a QA/QC Plan to ensure sample integrity and avoid contamination and/or cross-contamination of samples. All sampling equipment is cleaned before each sample is collected. When petroleum hydrocarbon contamination is encountered, all equipment is steam-cleaned. The following procedures are followed in the decontamination process:

Step 1: Steam clean equipment.
Step 2: Scrub with a bristle brush using a non-phosphate detergent (such as Alconox).
Step 3: Rinse with hot tap water.
Step 4: Rinse twice with deionized water.
Step 5: Air dry.
Step 6 Nitric Acid (5%) solution rinse (if sampling for metals)
Step 7: Rinse twice with deionized water.
Step 8: Air dry.

VII QUALIFICATIONS

EEA, Inc. is an environmental consulting firm that has undertaken environmental pollution investigations, development feasibility studies, and environmental site assessment studies since 1979. These site evaluation studies have been prepared for major lenders, public corporations, businesses, developers and governmental agencies. Approximately 4,000 parcels have been evaluated in the metropolitan New York-New Jersey area during the past twenty years, ranging from Phase I Environmental Site Assessments to comprehensive subsurface hazardous material investigations and testing programs. EEA also prepares bid specifications for remedial cleanup actions and supervises site cleanup.

EEA's principals and senior managers for the hazardous waste investigations each have over 20 years experience in environmental consulting, with established credentials in the field.

Individual qualifications of EEA personnel, including specific credentials of persons involved in the preparation of this report can be provided upon request.

VIII. DISCLAIMER

This report is for use by Spencer Realty Corporation and by Copper Tank & Welding and is only to be used as a guide in determining the potential for contamination by toxic or hazardous materials on the subject property at the time of the site visit. This Phase II Environmental

Subsurface Investigation was undertaken in accordance with generally accepted protocols, including ASTM Standards Related to the Phase II Environmental Site Assessment Process. This Phase II Investigation is based principally on the review of historic and regulatory records (made available within a reasonable time period), relating to past occupants and usage of the subject property, as well as activities at nearby sites, and upon a visual assessment of the subject property, and makes no determinations with respect to portions of the subject property and its structures which were not inspected. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable qualified professionals practicing in this or similar situations. The interpretation of the field data is based on good judgment and experience. However, no matter how qualified the professional or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made to the professional advice included in this report.

Any and all liability on the part of EEA, Inc. shall be limited solely to EEA's professional liability insurance (errors and omissions coverage of one million dollars). EEA, Inc. shall have no liability for any other damages, whether consequential, compensatory, punitive, or special, arising out of, incidental to, or as a result of, this assessment. EEA, Inc. assumes no liability for the use of this report by any person or entity other than the institution and/or entities or persons for whom it has been prepared.

TABLE 1
SOIL ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
254 MASPETH AVENUE
BROOKLYN, NEW YORK

Sample ID & Sample Depth	B-1 (8-12')	B-2 (0-4')	B-1 (4-8')	B-3 (0-4')	B-4 (0-2')	B-5 (0-4')	B-6 (0-4')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampling Date	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004

VOLATILE ORGANIC COMPOUNDS (ug/Kg)	NYSDEC Soil Cleanup Objectives (TAGM) (ug/Kg)	USEPA METHOD 8260						
1,1 Dichloroethane	200	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,1 Dichloroethene	400	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,1-Dichloropropene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,2 Dibromoethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,2 Dichlorobenzene (v)	7,900	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,2 Dichloroethane	200	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,2 Dichloropropane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,3 Dichlorobenzene (v)	1,600	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,3-Dichloropropane	300	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1,4 Dichlorobenzene (v)	8,500	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
111 Trichloroethane	800	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1112Tetrachloroethane	600	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
112 Trichloroethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1122Tetrachloroethane	600	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
123-Trichlorobenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
123-Trichloropropane	400	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
124-Trichlorobenzene (v)	3,400	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
124-Trimethylbenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
1245 Tetramethylbenzene	NE	< 24	**37**	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
135-Trimethylbenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
2,2-Dichloropropane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
2-Chlorotoluene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
4-Chlorotoluene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Acetone	200	< 240	**69**	< 54	< 55	< 54	< 53	< 56
Benzene	60	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Bromobenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Bromochloromethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Bromodichloromethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Bromoform	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Bromomethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
c-1,2-Dichloroethene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
c-1,3Dichloropropene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Carbon Tetrachloride	600	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chlorobenzene	1,700	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chlorodibromomethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chlorodifluoromethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chloroethane	1,900	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chloroform	300	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Chloromethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Dibromochloropropane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Dibromomethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Dichlordifluomethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Ethyl Benzene	5,500	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Freon 113	6,000	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Hexachlorobutadiene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Isopropylbenzene	NE	< 24	**15**	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
m + p Xylene	1,200	< 48	< 12	< 11	< 11	< 11	< 11	< 11
Methyl Ethyl Ketone	NE	< 240	< 58	< 54	< 55	< 54	< 53	< 56
Methylene Chloride	100	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Methylisobutylketone	NE	< 240	< 58	< 54	< 55	< 54	< 53	< 56
n-Butylbenzene	NE	< 24	**7**	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
n-Propylbenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Naphthalene(v)	NE	< 24	< 5.8	< 5.4	**38**	< 5.4	< 5.3	< 5.6
o Xylene	1,200	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
p Diethylbenzene	NE	< 24	**7**	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
p-Ethyltoluene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
p-Isopropyltoluene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
sec-Butylbenzene	NE	< 24	**16**	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Styrene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
t-1,2-Dichloroethene	300	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
t-1,3Dichloropropene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
ter.ButylMethylEther	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
tert-Butylbenzene	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Tetrachloroethene	1,400	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Toluene	1,500	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Trichloroethene	700	< 24	< 5.8	< 5.4	< 5.5	**14**	< 5.3	< 5.6
Trichlorofluomethane	NE	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6
Vinyl Chloride	200	< 24	< 5.8	< 5.4	< 5.5	< 5.4	< 5.3	< 5.6

Notes:
< = Analyte not detected above the Laboratory Reporting Limit (detection limit noted)
NYSDEC = New York State Department of Environmental Conservation
TAGM = Technical and Administrative Guidance Memorandum
NE = TAGM guidelines Not Established
Bold indicates analytes detected above the Laboratory Reporting Limit
Shade indicated analytes detected above the TAGM guidelines

TABLE 2
SOIL ANALYTICAL RESULTS: SEMI-VOLATILE ORGANIC COMPOUNDS
254 MASPETH AVENUE
BROOKLYN, NEW YORK

Sample ID & Sample Depth	B-1 (8-12')	B-2 (0-4')	B-1 (4-8')	B-3 (0-4')	B-4 (0-2')	B-5 (0-4')	B-6 (0-4')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampling Date	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004

SEMI-VOLATILE ORGANIC COMPOUNDS (ug/Kg)	NYSDEC Soil Cleanup Objectives (TAGM) (ug/Kg)	USEPA METHOD 8270 (STARS LIST)						
Acenaphthene	50,000	< 360	**2,800**	< 330	**2,100**	**960**	< 320	**330**
Anthracene	50,000	**1,700**	**5,600**	**720**	**5,800**	**2,600**	**510**	**1,300**
Benzo(a)anthracene	224	**2,900**	**14,000**	**2,500**	**20,000**	**6,000**	**2,600**	**6,600**
Benzo(a)pyrene	61	**1,700**	**11,000**	**1,800**	**15,000**	**4,700**	**2,100**	**4,800**
Benzo(b)fluoranthene	1,100	**1,400**	**12,000**	**1,600**	**14,000**	**4,300**	**2,100**	**5,600**
Benzo(ghi)perylene	50,000	**750**	**3,300**	**1,000**	**8,000**	**1,600**	**980**	**1,900**
Benzo(k)fluoranthene	1,100	**1,400**	**12,000**	**1,600**	**14,000**	**4,300**	**2,100**	**5,600**
Chrysene	400	**2,400**	**1,400**	**2,500**	**18,000**	**5,700**	**2,400**	**6,800**
Dibenzo(a,h)anthracene	14	< 360	**1,100**	< 330	**1,500**	**480**	**350**	**720**
Fluoranthene	50,000	**8,900**	**30,000**	**4,800**	**40,000**	**11,000**	**3,900**	**10,000**
Fluorene	50,000	< 360	**4,300**	< 330	**1,900**	**1,600**	< 320	**330**
Indeno(1,2,3-cd)pyrene	3,200	**580**	**3,000**	**880**	**7,100**	**1,500**	**850**	**1,600**
Naphthalene(sv)	13,000	< 360	**2,700**	< 330	**680**	**720**	**330**	**380**
Phenanthrene	50,000	**4,800**	**9,900**	**3,600**	**16,000**	**9,300**	**1,500**	**5,800**
Pyrene	50,000	**9,900**	**36,000**	**5,500**	**42,000**	**14,000**	**4,800**	**14,000**

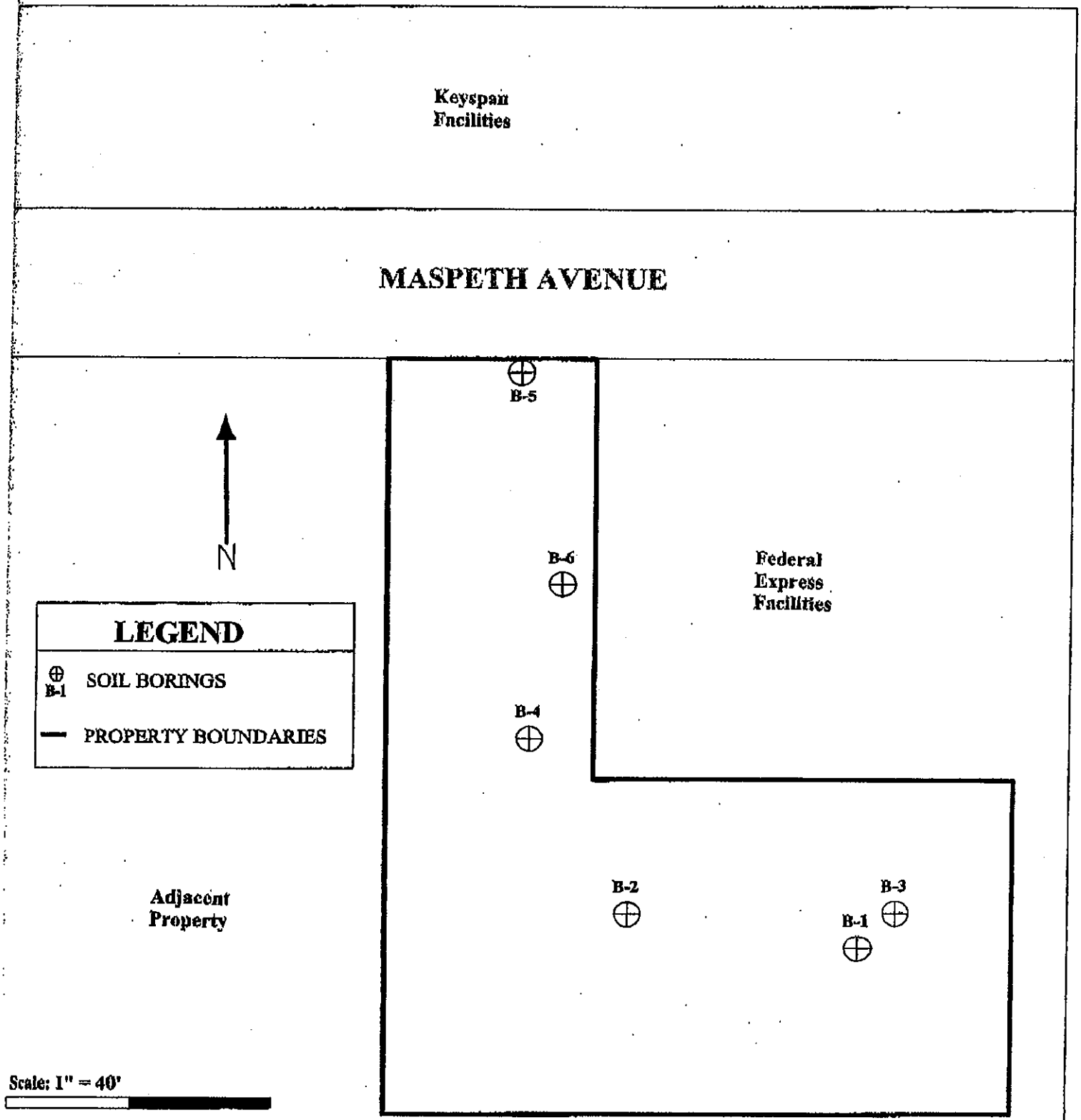
Notes:
< = Analyte not detected above the Laboratory Reporting Limit (detection limit noted)
NYSDEC = New York State Department of Environmental Conservation
TAGM = Technical and Administrative Guidance Memorandum
NE = TAGM guidelines Not Established
Bold indicates analytes detected above the Laboratory Reporting Limit
Shade indicated analytes detected above the TAGM guidelines

TABLE 3
SOIL ANALYTICAL RESULTS: RCRA METALS
254 MASPETH AVENUE
BROOKLYN, NEW YORK

Sample ID & Sample Depth	B-1 (8-12')	B-2 (0-4')	B-1 (4-8')	B-3 (0-4')	B-4 (0-2')	B-5 (0-4')	B-6 (0-4')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sampling Date	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004	9/20/2004

RCRA METALS (mg/Kg)	NYSDEC Soil Cleanup Objectives (TAGM) (mg/Kg)	Eastern USA Background (mg/Kg)	USEPA METHOD 6010, 7470A & 7740						
Arsenic	7.5 or SB	3 to 12	< 1.2	**12**	**2.1**	**18**	**3.8**	**4.4**	**17**
Barium	300 or SB	15-600	**35**	**370**	**130**	**300**	**150**	**150**	**270**
Cadmium	1 or SB	0.1 to 1	**0.68**	**2.9**	**1**	**3.3**	**1.7**	**1.8**	**4**
Chromium	10 or SB	1.5 to 40	**8.8**	**36**	**16**	**35**	**37**	**27**	**33**
Lead	SB (500)	200 to 500	**56**	**450**	**280**	**420**	**250**	**330**	**430**
Mercury	0.1	0.001 to 0.2	**0.12**	**0.41**	**0.37**	**0.82**	**0.34**	**0.31**	**0.56**
Selenium	2 or SB	0.1-3.9	**0.74**	**0.47**	< 0.43	**1**	**0.67**	< 0.43	**0.73**
Silver	SB	NE	< 0.6	< 0.58	< 0.54	< 0.55	< 0.54	< 0.53	< 0.56

Notes:
< = Analyte not detected above the Laboratory Reporting Limit (detection limit noted)
NYSDEC = New York State Department of Environmental Conservation
TAGM = Technical and Administrative Guidance Memorandum
NE = TAGM guidelines Not Established
Bold indicates analytes detected above the Laboratory Reporting Limit
Shade indicated analytes detected above the TAGM guidelines



EEA, Inc.

55 Hilton Avenue
Garden City, New York
(516) 746-4400

Figure 1: Site Location Plan
254 Maspeth Avenue
Brooklyn, New York

Job No.: 04729

Drawn By: FI

Date: 10/14/04

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 1**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): ~9 feet					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4		36	0	Dry		Brown soil, red brick chips, asphalt chips and fine to medium grained, red SAND (fill). Typical asphalt odor; no staining.
4-8	*B-1(4-8')	36	0	Dry to		Same as above with lenses of greenish GRAVEL (parent material?). Typical asphalt odor and no staining.
5	1100			moist		
8-12	*B-1(8-12')	36	5.3	Wet		Black-gray, gravelly red brick chips and soil. Black-gray staining and moderate hydrocarbon odor. At 11', brown fine grained SAND and CLAY with moderate hydrocarbon odor.
	1000					
10						
15						EOB @12'
20						* soil sample collected for laboratory analysis
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 2**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): unknown					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-2 (0-4')	12	0	Dry		Black soil, red brick chips and GRAVEL; remnants of wood pilings at 4'. Creosote odor and black staining.
	1030					
						EOB @4'/Refusal @4' from wood pilings (several refusals)
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 3**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-3 (0-4')	12	0	Dry		Brown fine to medium grained SAND and GRAVEL. No odor or staining.
	1115					
5						EOB @4'/Refusal @4' from wood pilings (several refusals)
10						
						* soil sample collected for laboratory analysis
15						
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 4**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-4 (0-2')	12	0	Dry		Brown soil, tan, medium grained SAND and GRAVEL with red brick chips. Typical odor and no staining.
	1130					
						EOB @4'/Refusal @4' from wood pilings (several refusals)
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 5**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-5 (0-4')	12	0	Dry		Brown soil, fine grained SAND and GRAVEL and asphalt chips. Typical odor and no staining.
	1200					
						EOB @4'/Refusal @4'
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

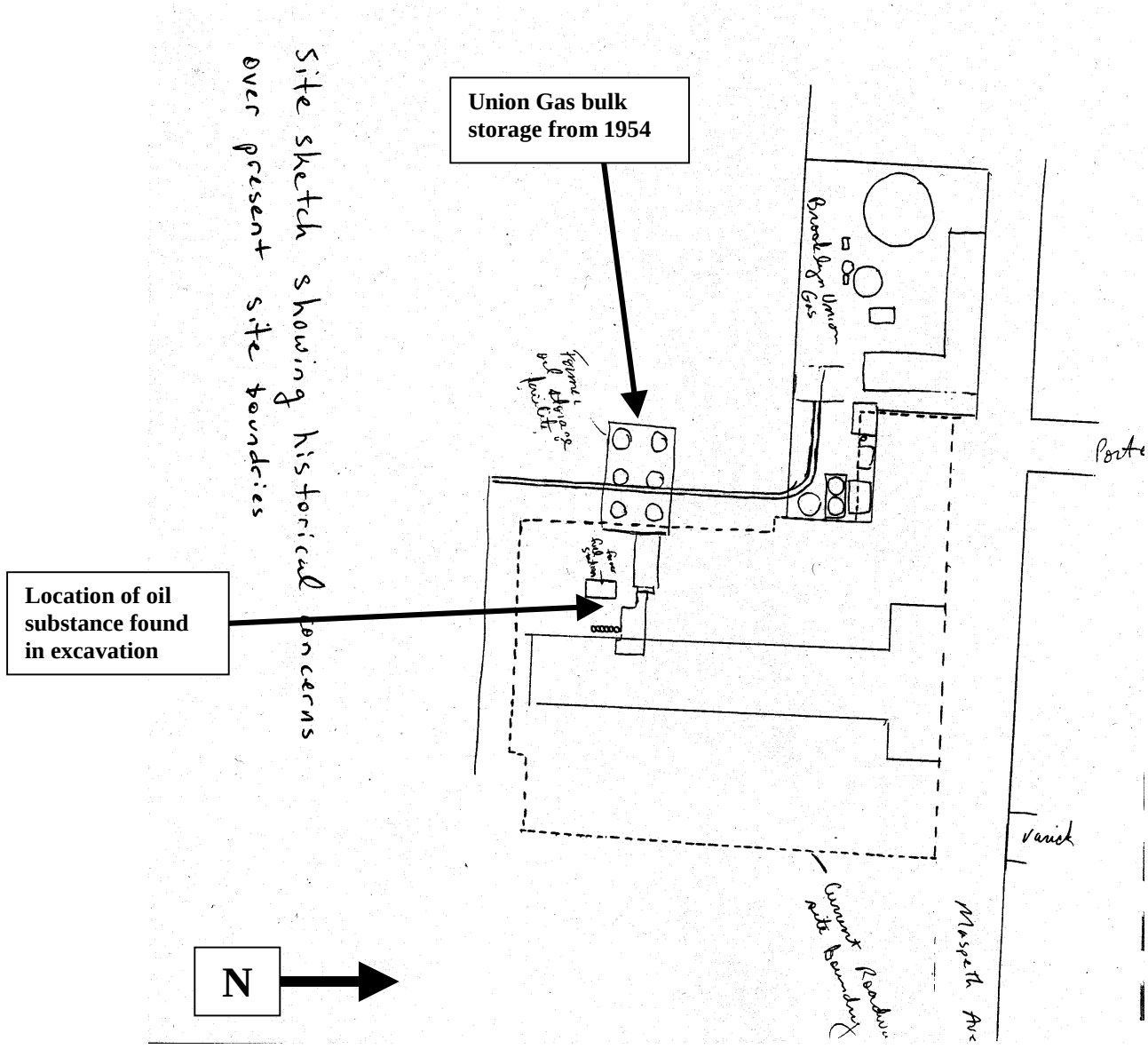
SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 6**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): unknown					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-6 (0-4')	12	0	Dry to		Black soil, fine grained SAND and GRAVEL with asphalt chips, bricks and nails. Typical odor and possible staining (black).
	1230			moist		
						EOB @4'/Refusal @4'
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

300 Maspeth Previous Reports

FEDEX GROUND
300 MASPETH AVE.
BROOKLYN, NY
7/16/02

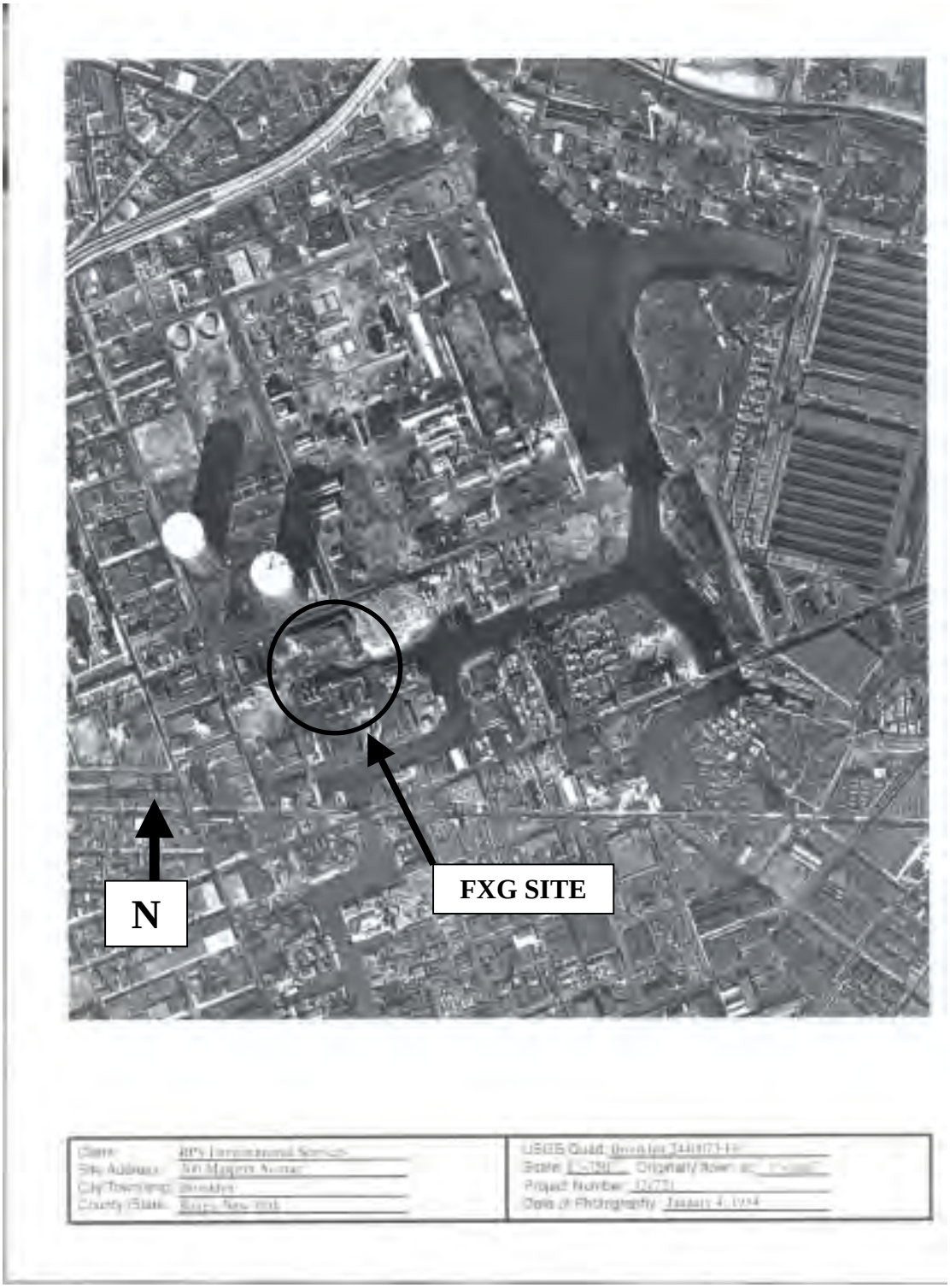


FEDEX GROUND
300 MASPETH AVE.
BROOKLYN, NY
7/16/02

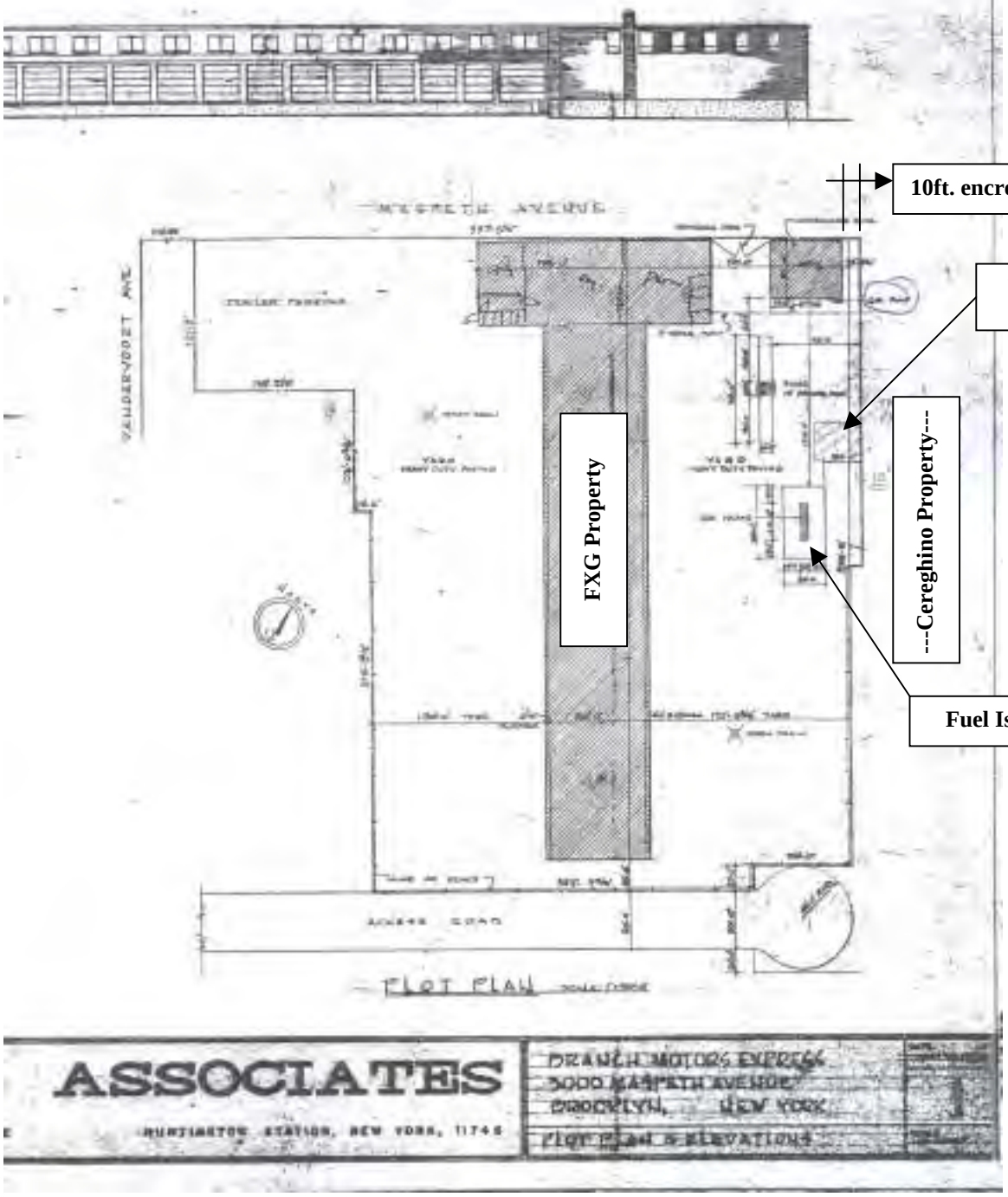


Client: [illegible]	USGS Quad: [illegible]
Site Address: [illegible]	Scale: [illegible] Originally flown at: [illegible]
City/Township: [illegible]	Project Number: [illegible]
County (State): [illegible]	Date of Photography: [illegible]

FEDEX GROUND
300 MASPETH AVE.
BROOKLYN, NY
7/16/02



FedEx Ground
300 Maspeth Ave
Brooklyn, NY



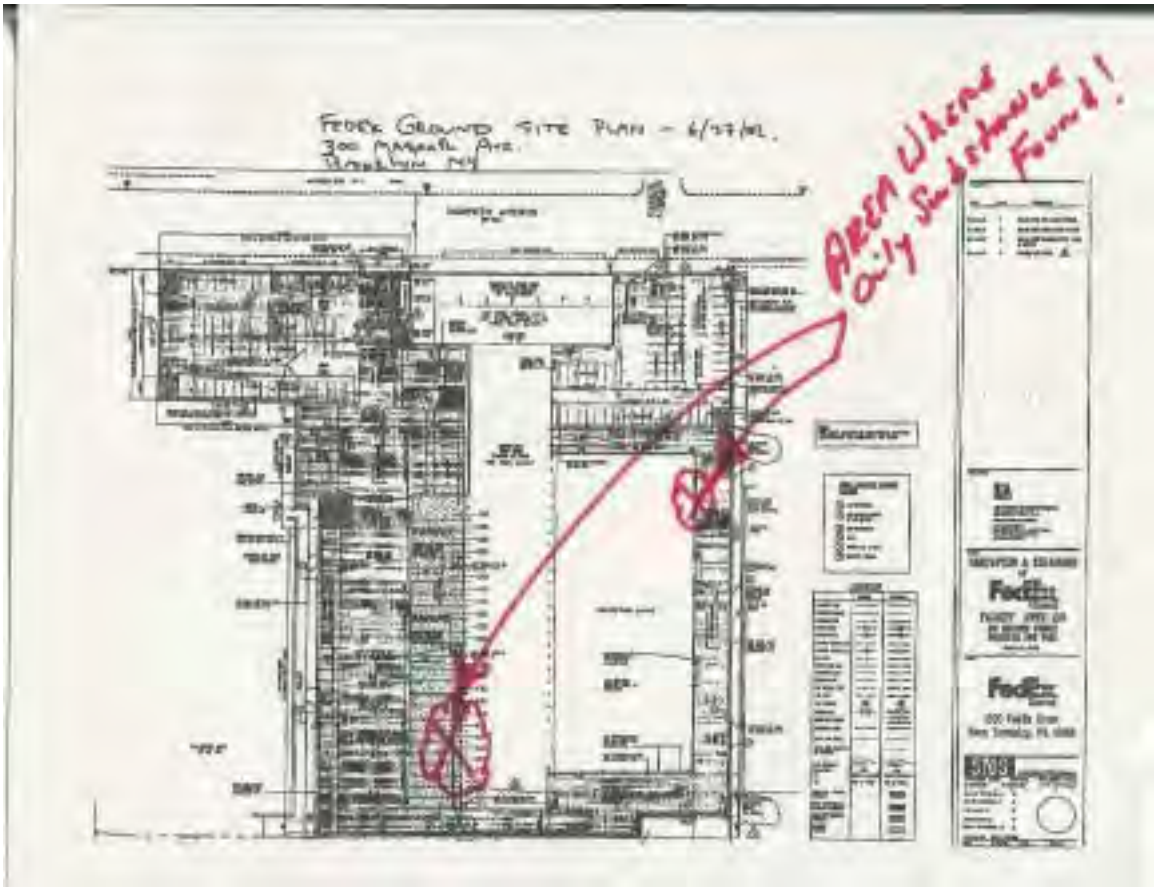
FEDEX GROUND
300 MASPETH AVE.
BROOKLYN, NY



View East Toward UST Pit



FEDEX GROUND
300 MASPETH AVE
BROOKLYN, NY



FEDEX GROUND
300 MASPETH AVE
BROOKLYN, NY



Oil on East Side

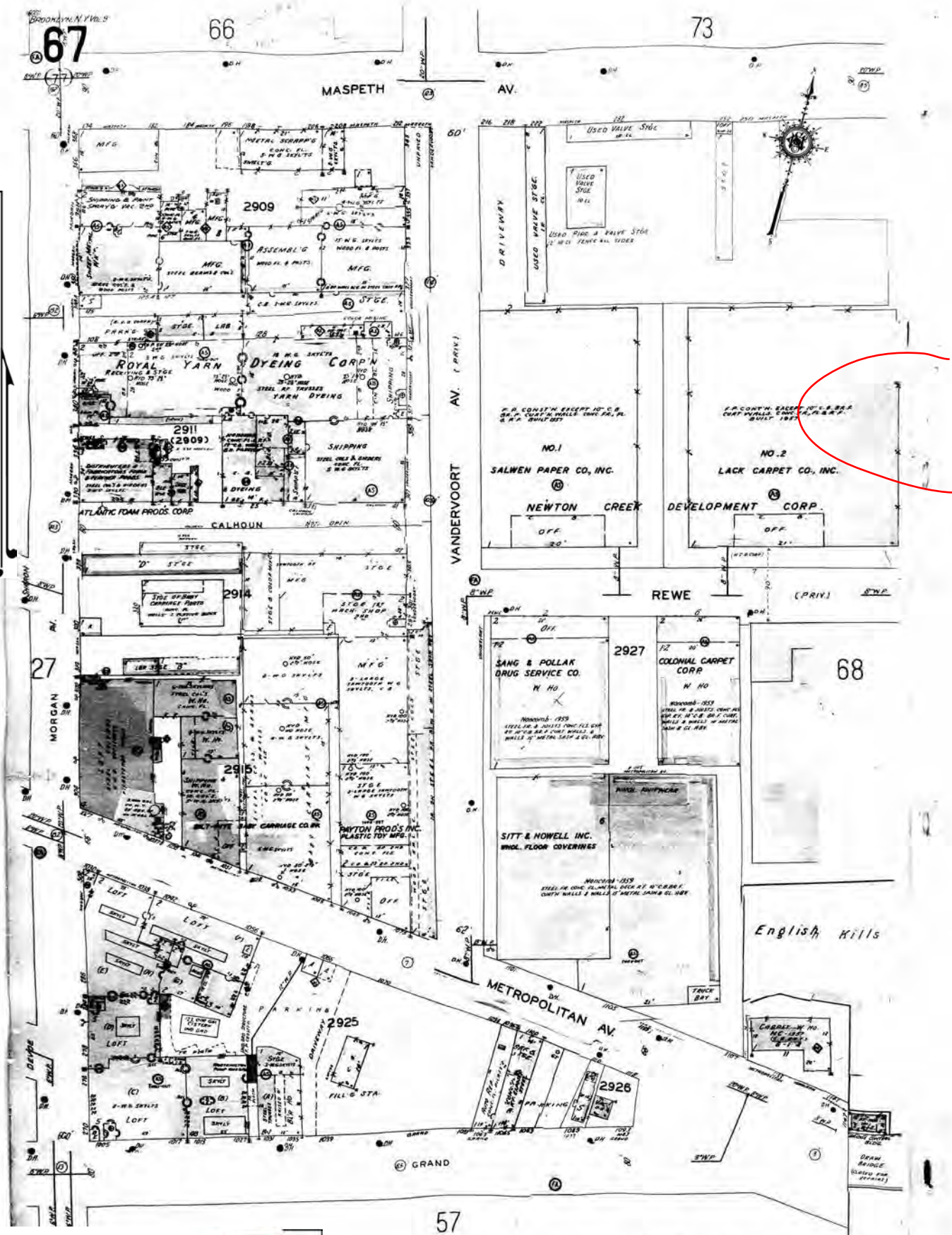


Oil on West Side



Oil on West Side





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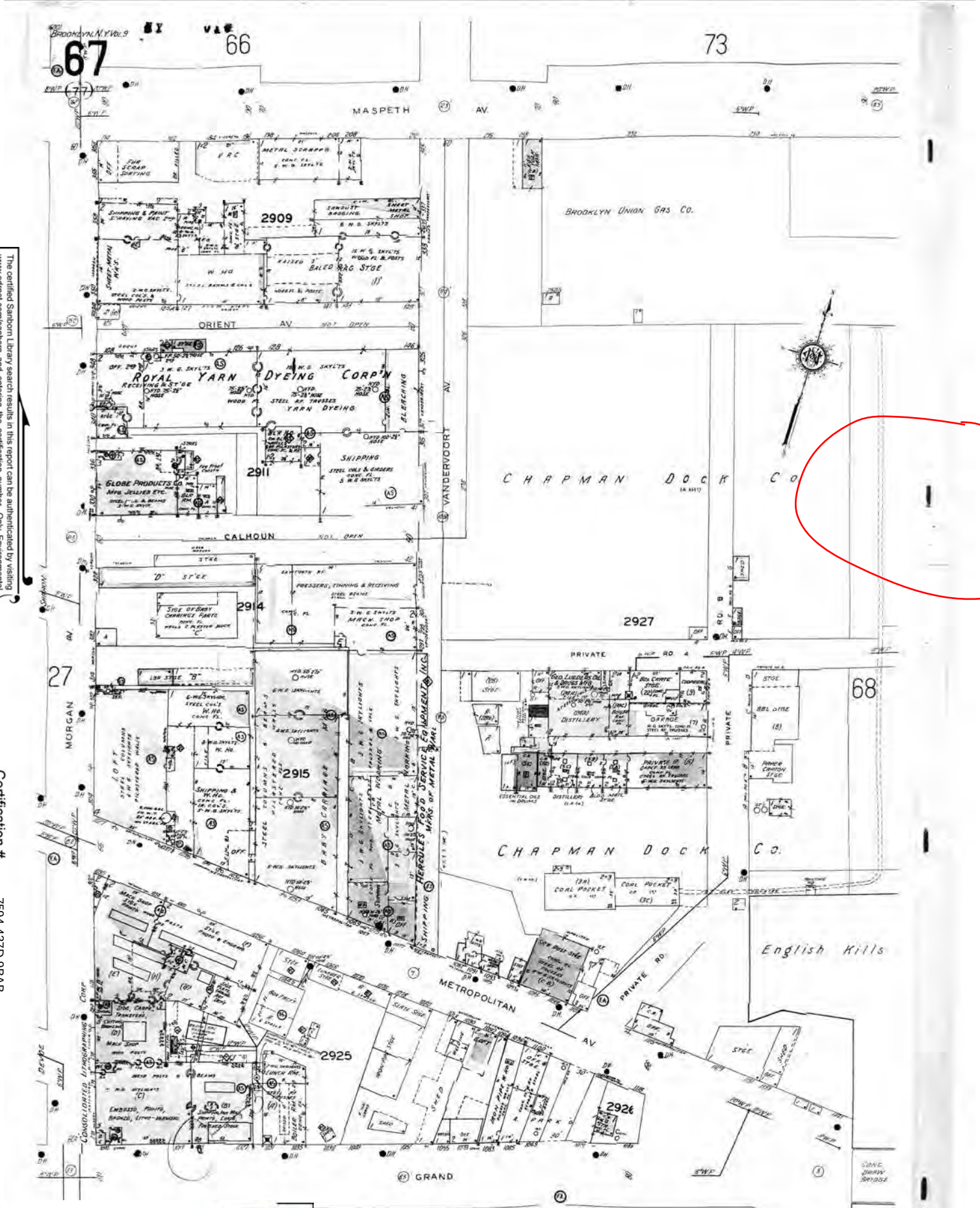
Certification # 7594-437D-9BAB

Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1965



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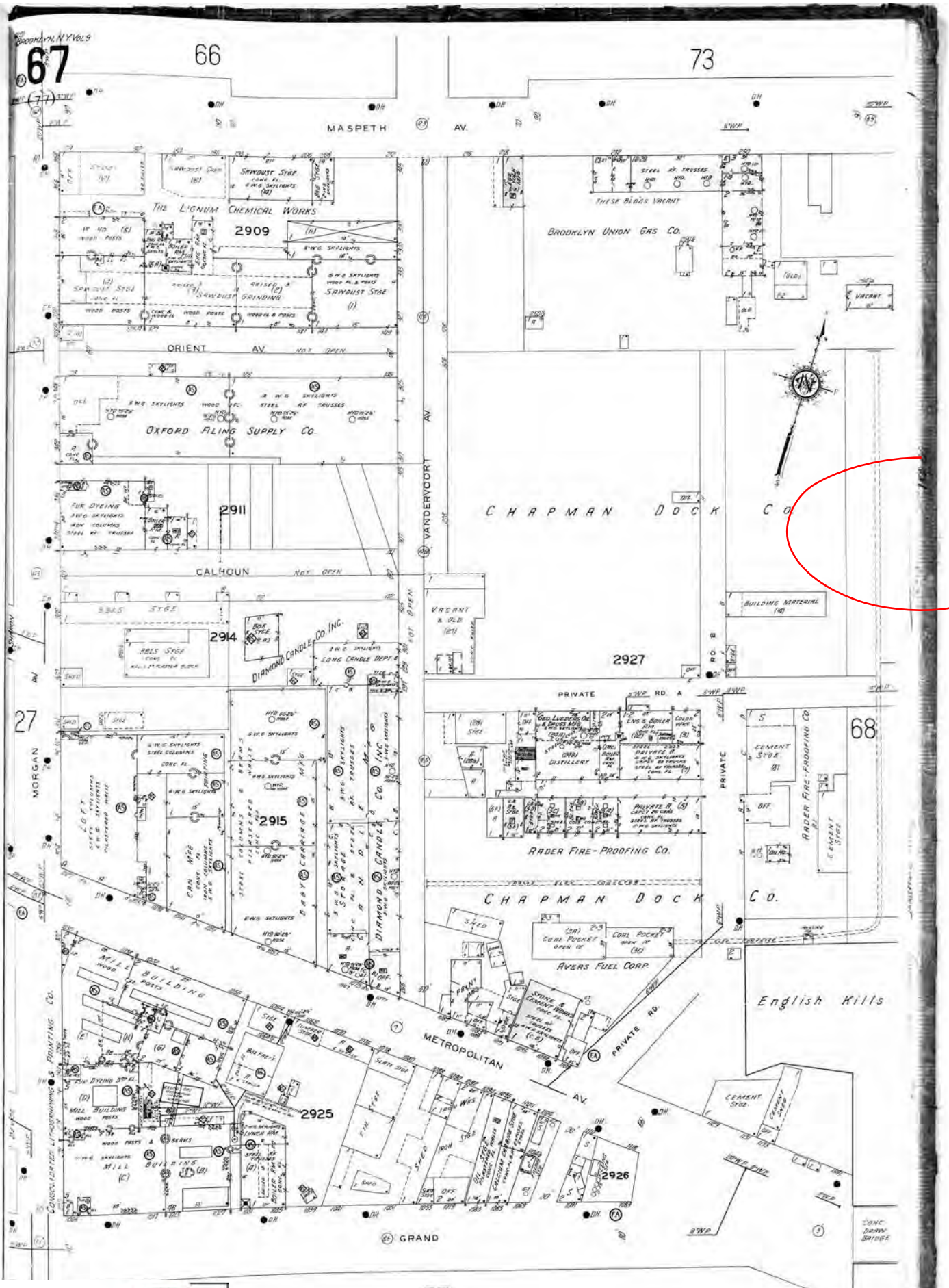
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1951



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Certification #	7594-437D-9BAB

Copyright: 1933


INQUIRY #: 2348436.2
YEAR: 1954
= 750'
N



NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0202804

SPILL NAME: FEDEX **DEC LEAD:** aaobliga

SPILL DATE: 06/17/2002 **SPILL TIME:** 11:30 am

CALL RECEIVED DATE: 06/17/2002 **RECEIVED TIME:** 12:01 pm

SPILL LOCATION

PLACE: FEDEX **COUNTY:** Kings

STREET: 300 MASPETH AVE **TOWN/CITY:** New York City

COMMUNITY: BROOKLYN

CONTACT: **CONTACT PHONE:**

CONT. FACTOR: Equipment Failure **SPILL REPORTED BY:** Other

FACILITY TYPE: Commercial/Industrial **WATERBODY:**

CALLER REMARKS:

they were excavating a previously closed tank & came across it by the piping - they will excavate & stock pile the soil

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
Diesel	Petroleum	2 G	0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
	300 MASPETH AV BROOKLYN NY	

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"

10/15/04-Vought-File review by Vought:

Access Agreement-7/10/02. Access agreement for FedEx to remove USTs and portion of tankfield on adjacent property.

Letter from Testwell Labs(Pearce) to FedEx(Swart)-7/10/02. Work proposal for installation of nine soil borings, field screening of soil samples, conversion of three of the borings into monitoring wells, quarterly sampling of the wells and further excavation of the soil and piping.

Letter from Testwell Labs(Pearce) to DEC Vought-7/22/02. Soil "samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding had been removed..." Testwell recommends: 1)backfilling of UST excavation 2)SVOC's are due to fill material 3)if wells are deemed necessary "they are to be installed at a later date after site work (piles and foundations) is complete" 4)remaining vent lines terminate at surface level and remaining contaminated soil on adjacent property should be removed.
Letter from Gannett Fleming (Ernst) to DEC Vought-8/13/02. "This letter is intended to inform the NYSDEC of the projected site remediation activities." "Based on the endpoint soil data (samples WSW and SSW no further action is

recommended for the soil beneath facility footprint which is currently under construcion". No groundwater monitoring wells are proposed inside the facility." Gannett Fleming will provide a comprehensive site investigation report on both the UST removal and for the "black tar like substance found in the southwestern portion of the site".

Report from Gannett Fleming to DEC Vought-8/28/04. "This letter provides a summary of the additional investigation activities and sample analysis that have taken place....." Removal of twenty (550-gallon) gasoline USTs and 900 tons o impacted soil. See above 7/22/02 entry for endpoint analyticals. Soil analyticals show 7750ppb 1,3,5-trimethylbenzene(WSW Wall) and 6470ppb xylene(WSW Wall), 110ppb benzene(vent x bottom), 110ppb benzene(Vent x sw), 120ppb benzene(n wall composite), 5900ppb 1,3,5-trimethylbenzene(n wall composite), 11000ppb 1,2,4-trimethylbenzene(n wall composite). Groundwater analytical from one well shows 40ppb benzene and 26ppb xylene. "Black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse". Seven test pits were dug to delineate the stained soil but no groundwater samples were collected. Report recommends: 1)no further actions for soils south and west of the former UST area 2)additional delineation north and east of the former UST area via Geoprobe 3)installation of six montoring wells (two upgradient and four downgradient). Investigation activities will be provided to DEC in a supplemental site investigation report. Soil analyticals shos PAH exceedences throughout site due to fill material.

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10/18/04-Vought-Sent letter with above requirement.

9/27/05 - Obligado - SITE TRANSFERRED FROM VOUGHT TO OBLIGADO

9/30/05 - Obligado - Called Manfred Bohms, left message.

10/03/05 - Obligado - Spoke with Manfred Bohms (516) 671-8440. Said that a final quarterly monitoring report should be received by Department in a few weeks.

11/7/05 - Obligado - Review final quarterly monitoring report. Ground water results show 28 ppb benzene (MW1), 28 ppb ethylbenzene (mw1), 10 ppb xylenes (mw1), 3 ppb benzene (mw3), 34 ppb benzene (mw7), 6 ppb toluene (mw7), 32 ppb xylenes (mw7), 150 ppb napthalene (mw7). Conclusions: GW data indicate ground water contmaination is stagnant. GW flow and quality have remained consistent throughout monitoring program. Stagnant gw plume indicate groundwater impacts "representative of regional groundwater quality". Requests no further action. Will discuss with Joe Sun.

12/22/05 - Obligado - Spoke with Koon. Approves NFA. Minor residual contamination possibly coming from offsite - former Brooklyn Union is across the street. Spill closed. Letter sent.

PIN **T & A** **COST CENTER**

CLASS: B4 **CLOSE DATE:** 12/22/2005 **MEETS STANDARDS:** False

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PIN **T & A** **COST CENTER**

CLASS: B4 **CLOSE DATE:** 12/22/2005 **MEETS STANDARDS:** False

PBS # : 2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

Site: FEDEX GROUND PACKAGE SYSTEM, INC.
300 MASPETH AVENUE
BROOKLYN, NY 11211

Owner: FEDEX GROUND
PO BOX 108
PITTSBURGH, PA 15230

(412) 262-6291

Mail: FEDEX GROUND
P.O. BOX 108
PITTSBURGH, PA 15230

Town: New York City **County:** Kings

Owner Type : Corporate or Commercial

On-Site Operator: FEDEX GROUND (718) 782-4848

Primary Operator:

Auth Rep: ATTN: JERRY C. SWART

Emergency : SCOTT GARTON (718) 782-4848 (412) 262-6291

Site Status : Unregulated (<1101 gal.) **Reg Expires :** 10/02/2002 **Cert Printed:** 05/07/1998 **Total Active Tanks :** 0 **Last Inspected:**

Site Type: Trucking/Transportation/Fleet Operation **Cert Issued:** 09/25/199 **Total Active Capacity :** 0 **Inspected By:**

(2) Tank No	(3) Tank Loc	(4) Status	(5) Date Install	(5) Date Closed	(6) Capacity (gals)	(7) Product	(8) Tank Type	(9) Tank IP	(10) Tank EP	(11) Tank SC	(12) Tank LD	(13) Tank OP	(14) Tank SP	(15) Tank Disp	(16) Pipe Loc	(17) Pipe Type	(18) Pipe EP	(19) Pipe SC	(20) Pipe LD	(21) UDC	(22) Multi Owner	Date Test	Next Test
001	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
002	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
003	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
004	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
005	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
006	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
007	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
008	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
009	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
010	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
011	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
012	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
013	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
014	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
015	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
016	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
017	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
018	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
019	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
020	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
021	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
022	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
023	5	5	12/1/88	8/1/96	1,000	0001	06	00	04	00	00	00		02	03	06	04					2/1/89	
24	5	5	1/1/65		550	0022	01	00	00	00	00	00			00	00	00						

(See Reverse Side or Last Page for Code Keys)

PBS # :
2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

PETROLEUM BULK STORAGE APPLICATION – SECTION B – TANK INFORMATION – CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Recondition/Repair/ Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, legs, stilts, rack, or cradle
4. Aboveground with 10% or more below ground
5. Underground
6. Aboveground in Subterranean Vault w/ access for inspections

Status (4)

1. In-service
2. Temporarily out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Under Dispenser Containment (UDC) – sump/containment underneath a motor fuel dispenser (21)

Check If Present

Tank Owned by Party Other Than Listed in Section a (22)

Check If Applicable

Product Stored (7)

Heating Oils
0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biodiesel (Heating)
2642. Used Oil (Heating)

Motor Fuels
0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jet Fuel (Biofuel)
2641. Aviation Gasoline

Crude Oil
0006. Crude Oil
0701. Crude Oil Fractions

Lubricating/Cutting Oils
0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used As Building Materials
2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits
0014. White/Mineral Spirits
1731. Naphtha

Mineral/Insulating Oils
0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils
0022. Waste/Used Oil
9999. Other -please list :*

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-please list:*

Internal Protection (9)

00. None
01. Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07. Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-please list:*

Secondary Containment (11/19)

00. None

Aboveground Tanks/Piping
01. Diking
02. Vault (w/access)
05. Synthetic Liner
06. Remote Impounding Area
09. Modified Double-Walled
10. Impermeable Barrier ***
11. Double Bottom ***

*** Each of these codes must be combined with code 01 or 06 to meet compliance requirements

Underground Tanks/Piping
03. Vault (w/o access)
04. Double-Walled
05. Synthetic Liner
07. Excavation/Trench Liner System
08. Flexible Internal Liner (Bladder)
10. Impervious Underlayment

Tank Leak Detection (12)

00 None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank Gauge)
06. Impermeable Barrier (Aboveground Only)
99. Other-please list:*

Overfill Prevention (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-off
04. Product Level Gauge (Aboveground Only)
05. Vent Whistle
99. Other-please list:*

Spill Prevention (14)

00. None
01. Catch Basin
02. Transfer Station Containment
99. Other - Please list*

Pumping/Dispensing Method (15)

00. None
01. Submersible
02. Suction
03. Gravity

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-please list:*

Pipe Leak Detection (20)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
08. Tank Top Sump
09. Exempt Suction Piping
99. Other-please list:*

*** If other, please list on a separate sheet including Tank Number**

TESTWELL LABORATORIES, INC.
Total Commitment to Quality

A Minority Business Enterprise

47 Hudson Street, Ossining, New York 10562
Tel: (914)-762-9000 • Fax: (914)-762-9638 • testwelllabs.com

Offices in
Albany, NY
Queens, NY
Woodbridge, NJ
Miami, FL

July 10, 2002

Mr. Jerry Swart, Managing Director, Environmental Services
FedEx Ground
Environmental Services Department
1000 FedEx Drive
Moon Township, PA 15108

Certifications & Accreditations

Regarding: FedEx Ground Facility
300 Maspeth Ave, Brooklyn, NY
Soil Boring Work Plan

Dear Mr. Swart:

ISO 9001 CERTIFIED

On or about July 11, 2002 Testwell Laboratories, Inc. (TLI) will conduct a soil boring operation to delineate the extent of petroleum contamination regarding the above referenced site. Prior to the start of work the area must be free from equipment and debris, also all utilities will be marked out through the "One Call" Service.

The work activities are as follows:

NVLAP LAB CODE 200083-0

1. Initially TLI proposes to perform a total of nine soil borings around the tank pit area, three of which will be converted into ground water monitoring wells.
2. Field soil screening will be performed for each boring and additional borings may be required to delineate the extent of contamination extending out radially and staggered from the initial borings.
3. Three of the borings will be converted into monitoring wells (one well will be on the adjacent property - Duggan). These wells will be capped and two will extend above ground level and one will be flush mounted with the asphalt (adjacent property).
4. The wells will be sampled on a quarterly basis for a minimum period of one year therefore access must be provided for that time.
5. After the pit has been filled in (to minimize undermining) the vent pipes and soil around them will be removed in an effort to dispose of the gross contamination.

AASHTO R18

NYS DOH ELAP #10871, 11142 & 11651

Testwell Laboratories, Inc. Ossining, NY is accredited by the American Industrial Hygiene Association (AIHA) in the Industrial Hygiene program CERT. NO. 100147

TESTWELL LABORATORIES, INC.

Mr. Jerry Swart, Managing Director, Environmental Services
RE: FedEx Ground
300 Maspeth Avenue
Soil Boring Work Plan

July 10, 2002
Page 2 of 2

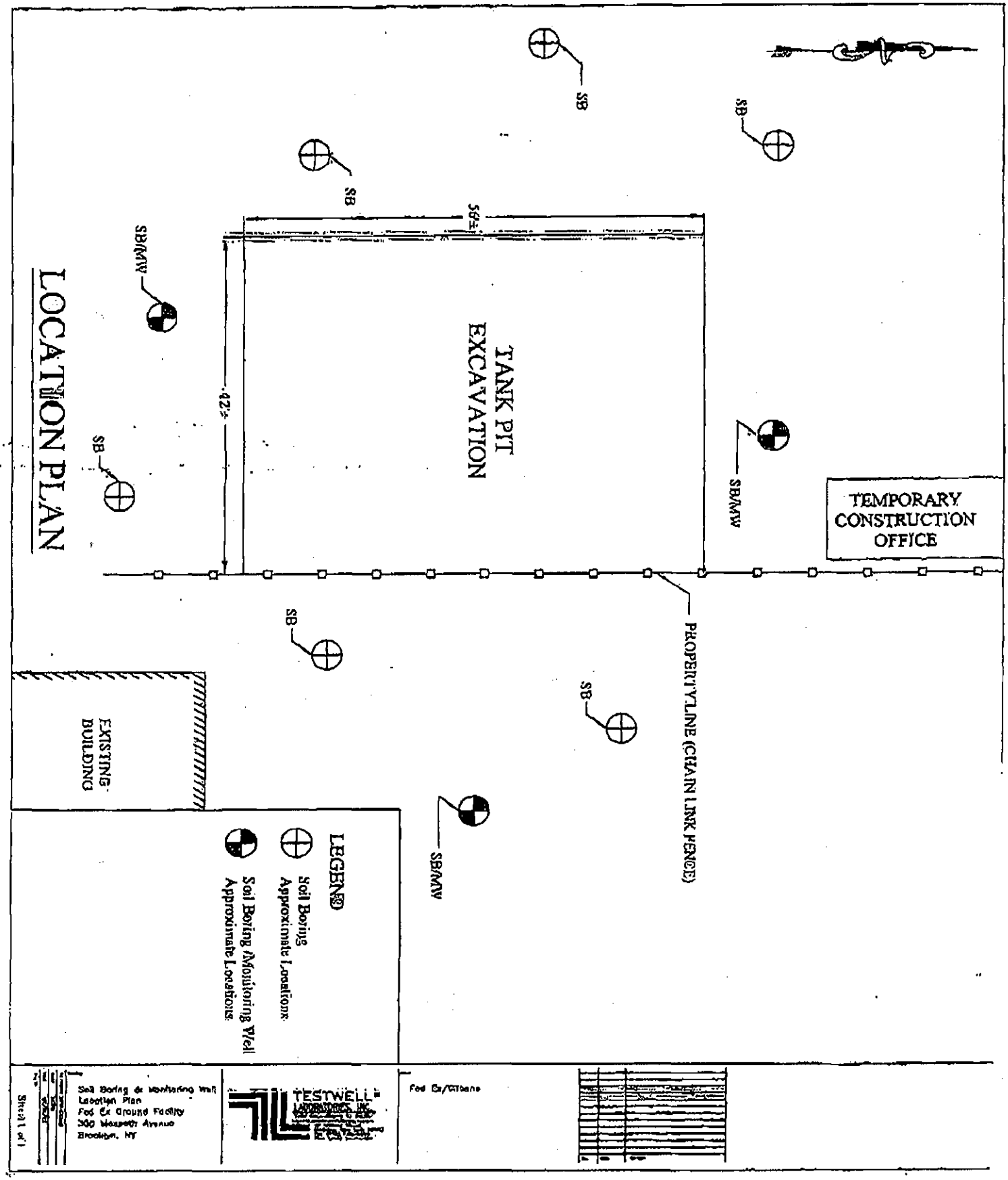
TLI will obtain soil and water samples from the borings/monitoring wells and have them analyzed using EPA Method 8021 & 8270 (STARS) in addition to Lead and MTBE to determine quantity and characterization of the contamination. After the sample results have been reviewed a recommendation will be made whether to install a remediation system or continue excavation to clean soil.

If you have any questions regarding this matter please do not hesitate to call us at (914) 944-2592.

Sincerely,

Dean Pearce

Dean Pearce
Environmental Manager


LOCATION PLAN
SB
SB
SB
SB/MW
58'±
42'±
TANK PIT EXCAVATION
SB/MW
TEMPORARY CONSTRUCTION OFFICE
SB
PROPERTY LINE (CHAIN LINK FENCE)
SB
SB/MW
EXISTING BUILDING
LEGEND
Soil Boring
Approximate Locations
Soil Boring /Monitoring Well
Approximate Locations
Soil Boring & Monitoring Well Location Plan
Fed Ex Ground Facility
300 Meserole Avenue
Brooklyn, NY
TESTWELL
Fed Ex/Citibank

SITE ACCESS AGREEMENT

THIS AGREEMENT is made and entered into this 10th day of July, 2002 by and between **JC-DUGGAN, INC., BRIA REALTY CORPORATION**, its successors and assigns (collectively "Grantor"), with offices at 320 Maspeth Avenue, Brooklyn, New York (the "Property") and **FEDEX GROUND PACKAGE SYSTEM, INC.** ("FedEx"), with offices at 1000 FedEx Drive, Moon Township, Pennsylvania (Grantor and FedEx are hereinafter collectively referred to as the "Parties"),

WHEREAS FedEx requires access to the Property for the limited purpose of removing two (2) suspect underground fuel tanks and piping associated with FedEx's fuel system and installing, maintaining and sampling, at its sole cost, expense and risk, soil borings, test pits and temporary monitoring wells associated with investigative/remedial activities related to contamination emanating from the Neighboring Premises located at 300 Maspeth Avenue, Brooklyn, New York owned by FedEx (the "Work").

WHEREAS contamination having been identified on the 300 Maspeth Avenue, Brooklyn, NY premises (the "Neighboring Premises"), the Work is required to be supervised by the New York Department of Environmental Conservation ("NYDEC") to evaluate the nature and extent of said contamination.

WHEREAS FedEx has retained various contractors ("Agents") to perform the Work on FedEx's behalf; and

WHEREAS Grantor agrees to provide FedEx and its Agents, with access to the Property to perform the Work;

NOW THEREFORE, in consideration of the promises, mutual covenants and agreements contained herein, the Parties agree as follows;

1. Grantor hereby grants FedEx and its Agents, permission to enter upon the Property for the limited purpose of performing the Work. The Work shall be performed in accordance with all applicable statutes, ordinances, rules, regulations, orders and requirements of all Governmental Authorities.

2. FedEx and its Agents, shall:

   a) perform the Work in a workmanlike manner and in accordance with industry standards and shall exercise all measures to conduct the Work so as to minimize the disturbance of existing conditions at the

Property;

b) minimize any business disruption by exercising all measures to limit the area of activity to the area in and around the suspected contamination; however, Grantor expressly agrees that FedEx and its Agents, are permitted to perform the Work during normal business hours (during weekdays only between 8:00 am-3:00 pm);

c) obtain all required utility mark-outs prior to conducting the Work and to take all measures necessary to prevent any disturbance or damage whatsoever to such utilities;

d) provide any necessary restoration work pursuant to Paragraph 7 of this Agreement;

e) at Grantor's request, provide Grantor with split samples of any samples taken in connection with the performance of the Work; and

f) upon completion of the Work, FedEx and its Agents, shall provide Grantor with a map showing the precise location of the sampling points and copies of reports of the analytical results of the sampling work.

3. Prior to commencing the Work at the Property, FedEx and its Agents, shall notify Grantor at least 24 hours prior to entry onto the Property, provide written notice describing the specific location, physical work, sampling to be conducted, and parameters for lab analysis, for which access is sought and must obtain Grantor's approval.

4. Any notice required under this Agreement shall be made by facsimile or overnight courier to both parties at the addresses listed below, or to any other addresses subsequently provided by the Parties. Notice shall be complete upon its receipt by the addressees listed below'

To Grantor: Michael G. Stingone, Esq.
Cole Schotz Meisel Forman and Leonard, P.A.
25 Main Street
Hackensack, NJ 07602
Facsimile No. (201) 678-6313

Jerry Cereghino
JC-Duggan, Inc./Bria Realty Corp.
320 Maspeth Avenue
Brooklyn, NY 11211
Facsimile No. (718) 599-5941

To FedEx: Daniel LaPorte, Esq.
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108
Facsimile No. (412) 859-5450

Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108
Facsimile No. (412) 859-5450

5. All equipment necessary to perform the Work and any needed restoration work must be removed from the Property on a daily basis at the conclusion of work for that day. If necessary to complete the Work, FedEx shall be responsible for moving the 20-foot ocean freight container located on the Property, utilized for storage purposes, to a temporary location approved by Grantor. Upon completion of the Work, FedEx will replace said container in its original location.

6. Following completion of the Work, FedEx or its Agents, shall restore the Work area to substantially the same condition existing prior to commencement of their entry onto the Property, including the removal of all equipment used in the performance of the Work. Restoration shall include:

a) replacement of the excavated soils with compacted, certified clean fill material;

b) replacement of any removed or damaged landscaping; and

c) replacement of any pavement, including, as necessary, parking lines, signs, or any other parking accouterments.

7. FedEx and its Agents, shall provide Grantor with copies of any correspondence with the NYDEC regarding the Work within 5 business days of the date

of such correspondence.

8. This Agreement obligates FedEx to be responsible for the investigative and remedial costs associated with the contamination emanating from the Neighboring Premises, which may be migrating onto the Property.

9. FedEx hereby releases and discharges and shall defend, indemnify and hold Grantor harmless from any and all damages, demands, losses, claims, liabilities and penalties, including attorney's fees and costs, whether brought against Grantor by third-parties who do not have a contractual relationship with Grantor, including governmental entities, or by third parties with whom Grantor has contracted, in each case, caused by the performance of the Work or other activity by FedEx or its Agents in the vicinity of the Property in connection with the performance of the Work, including liability for the remediation of any environmental contamination which is emanating or which emanated from the Neighboring Premises or caused by FedEx, but excluding liability for any pre-existing contamination found on the Property not caused by FedEx. Grantor shall notify FedEx in writing of any indemnity claim arising under this paragraph 9 and give FedEx the opportunity to defend.

10. Each Agent(s) shall maintain Comprehensive General Liability ("CGL"), with a minimum limit of $5,000,000, and Workmen's Compensation policies. Said policies are incorporated herein by reference. All premiums or other costs associated with the required insurance shall be borne solely by Agent(s). Grantor will be named on the Certificate of Insurance for Agent(s)'s CGL policy as an additional insured and shall provide the certificates to Grantor's counsel prior to commencing the Work.

11. This Agreement is not intended to, and does not, create any form of agency relationship between Grantor and FedEx and its Agents.

12. This Agreement is solely for the benefit of the Parties, and it shall not be transferable, assignable, or otherwise alienable, to any other party without prior written consent of the Parties.

13. The right to access conferred by this Agreement is terminable by Grantor immediately upon notice to FedEx and shall not be construed as any form of interest in the Property, including, but not limited to, an ownership, tenancy and/or operational interest.

14. This Agreement is the complete and exclusive statement of the terms and conditions hereof, notwithstanding any representations or statements to the contrary

heretofore made. Any modifications to this Agreement shall be in writing, executed by both Parties and shall specifically state that it is such a modification.

15. The parties to this Agreement represent that they have read and understand its terms. Each party, if so desired, has been advised by counsel as to its meaning and legal implications and freely executes this Agreement.

16. Each person executing this Agreement represents that the party on whose behalf the person is executing this Agreement has duly authorized the execution of this Agreement and that such person is authorized to execute the Agreement on behalf of such party.

17. This Agreement may be executed in several counterparts, each of which may be deemed an original, and all of such counterparts together shall constitute one and the same Agreement.

18. This Agreement may be executed by facsimile transmission and shall be deemed to have been executed and delivered by each party on the date so transmitted to the other party, and in such event, each party will promptly furnish to the other party, an original counterpart hereof executed by such party.

IN WITNESS HEREOF, the Parties hereto have executed, or caused to be executed, this Agreement as of the date and year first written below.

JC-DUGGAN, INC.

_____
Date

By: _____
Name: _____
Title: _____

BRIA REALTY CORPORATION

_____
Date

By: _____
Name: _____
Title: _____

FEDEX GROUND PACKAGE SYSTEM, INC.

7-10-02
Date

By:
Name: Jerry C. Swart, P.E.
Title: Managing Director-Environmental Services

1241753 6

From: <jerry.swart@fedex.com>
To: <jbvought@gw.dec.state.ny.us>
Date: 7/17/02 12:24PM
Subject: FedEx Ground Maspeth Ave.

Jeff; confirming our discussion, we found an oily substance on the groundwater during excavation activities along the west side of the facility this week. Per your instruction I notified the hotline-spill #0204002. The photos and site maps showing approximately locations are attached.

We will likely backfill the excavations where we encounter this material so we don't delay construction with the understanding we will address this unknown substance as construction advances.

There does not seem to be any consistent encounter with this material. Less than 15 feet away they did not observe this, so we are not sure if it is isolated, however Gilbane believes they also observed this oil on the east side as well so we do not know the extent of this yet.

You are welcome to visit the site today at 1PM when Gannett Fleming and Testwell will be meeting to discuss the situation.

If you discover any information on any potential off-site sources for this oil please let us know.

Thanks.

(See attached file: FedEx Ground Brooklyn Contamination.pdf)

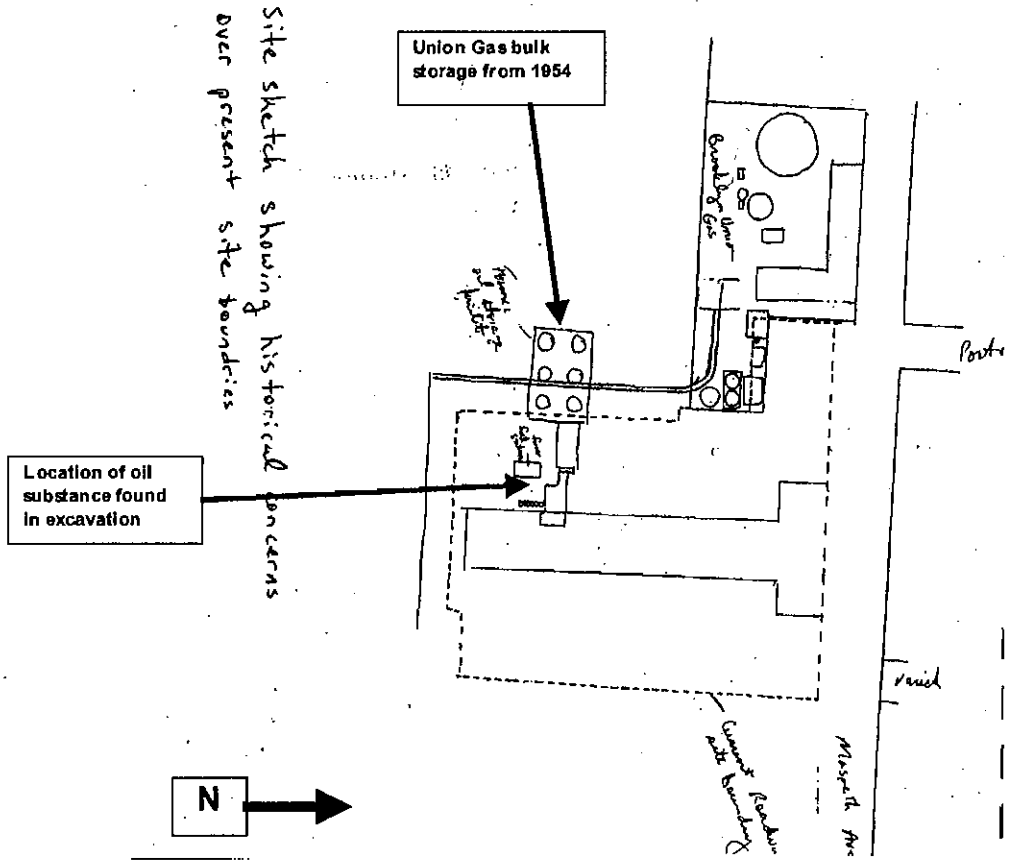
Jerry Swart
Managing Director - Environmental Services

FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108

PO Box 108
Pittsburgh, PA 15230

Phone: 412-262-6291
FAX: 412-859-5450
Email: jerry.swart@fedex.com
Cell Phone: 412-298-7544

FEDEX GROUND
300 MASP ETH AVE.
BROOK LYN, NY
7/16/02



Received: from smtp.dec.state.ny.us
by gwsmtp.dec.state.ny.us; Wed, 17 Jul 2002 12:23:18 -0400
Received: from mailhub.ground.fedex.com (unverified) by smtp.dec.state.ny.us
(Content Technologies SMTPRS 4.2.10) with ESMTP id
<T5c24ecbf0686b3700f284@smtp.dec.state.ny.us> for <jbvought@gw.dec.state.ny.us>;
Wed, 17 Jul 2002 12:21:26 -0400
Received: from pittx85.ground.fedex.com (pittx85.ground.fedex.com [10.72.27.33]) by
mailhub.ground.fedex.com (8.9.3/8.9.3) with ESMTP id MAA22232 for <jbvought@gw.dec.state.ny.us>;
Wed, 17 Jul 2002 12:21:46 -0400
From: jerry.swart@fedex.com
Subject: FedEx Ground Maspeth Ave.
To: jbvought@gw.dec.state.ny.us
X-Mailer: Lotus Notes Release 5.0.6a January 17, 2001
Message-ID: <OF381763AB.5F129D41-ON85256BF9.0059F649@ground.fedex.com>
Sender: jerry.swart@fedex.com
Date: Wed, 17 Jul 2002 12:22:37 -0400
X-MIMETrack: Serialize by Router on PITTX85/SERVER/FXG(Release 5.0.9a |January 7, 2002) at
07/17/2002 12:22:39 PM
MIME-Version: 1.0
Content-type: multipart/mixed;
Boundary="0__=0ABBE16ADFCA70D98f9e8a93df938690918c0ABBE16ADFCA70D9"
Content-Disposition: inline

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Content-type: text/plain; charset="us-ascii"

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You are welcome to visit the site today at 1PM when Gannett Fleming and Testwell will be meeting to discuss the situation.

If you discover any information on any potential off-site sources for this oil please let us know.

Thanks.

(See attached file: FedEx Ground Brooklyn Contamination.pdf)

Jerry Swart
Managing Director - Environmental Services

FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108

PO Box 108
Pittsburgh, PA 15230

Phone: 412-262-6291
FAX: 412-859-5450
Email: jerry.swart@fedex.com
Cell Phone: 412-298-7544
--0__=0ABBE16ADFCA70D98f9e8a93df938690918c0ABBE16ADFCA70D9
Content-type: application/pdf;
name="FedEx Ground Brooklyn Contamination.pdf"
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Content-transfer-encoding: base64
Click to view Base64 Encoded File FedEx Ground Brooklyn Contamination.pdf

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Environmental: Tel (914) 944-2570 Fax (914) 941-4154
Visit our Website at www.testwelllabs.com

OPERATOR Dean Pearce

DATE 07/22/02 NO. OF PAGES 43
(INCLUDING TRANSMITTAL)

****

TRANSMIT TO

COMPANY NYSDEC

FAX NO. (718) 482-4098

FORWARD TO: Jeff Vought

DEPARTMENT Division of Environmental Remediation

****

MESSAGE:

RE: FedEx Ground Facility
300 Maspeth Ave.
Brooklyn, NY

Please see attached cover letter with soil and water sample results

Dean Pearce

5 VOC exceedances

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NVLAP LAB CODE 200083-0

AASHTO R18

NYS DOH ELAP #10871, 11142 & 11651

Testwell Laboratories, Inc. Ossining, NY is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program CERT NO 100147

July 22, 2002

Mr. Jeffrey Vought, Engineering Geologist
New York State
Department of Environmental Conservation
Hunts Point Plaza
47-40 21st Street
Long Island City, NY 11101

Regarding: FedEx Ground Facility
300 Maspeth Ave, Brooklyn, NY
Soil Sampling Results

Dear Mr. Vought:

We have reviewed the results for the soil samples taken on July 3, 2002 regarding the above referenced site. These samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding soil had been removed resulting in a 56 FT. Wide X 42 FT. Long X 10 FT. Deep excavation. We recommend the following:

1. The Underground Storage Tank area is relatively clean according to the results and request that the area be backfilled as no further excavation is warranted.
2. Any high Semi-Volatile Organic Compound readings are probably due to the site condition of 7 FT. – 8 FT. layer of fill material over a layer of peat.
3. If wells are deemed necessary due to the high Benzene level in the groundwater sample, they are to be installed at a later date after site work (piles and foundations) is complete.
4. The remaining vent lines that terminate at the surface level and associated contaminated soil on the adjoining property should be removed.

We believe that the Photoionization Detector's (PID) readings were high when excavation was halted due to the decomposition of the peat layer and methane gas permeating up through the fill layer. The excavation of the soil around the removed tanks has evidently removed the fuel oil contaminant.

TESTWELL
LABORATORIES, INC.

Mr. Jeffrey Vought, Engineering Geologist
RE: FedEx Ground
300 Maspeth Avenue
Soil Sampling Results

Please review the attached sample results and let us know if you concur with our findings. If you have any questions or require additional information regarding this matter please do not hesitate to call us at (914) 944-2562.

Sincerely,

Dean Pearce

Dean Pearce
Environmental Manager

CC: Mr. Eric Adamczyk – FedEx Ground
Mr. Jerry Swart – FedEx Ground
Mr. John LaRow – Gilbane Construction
Mr. Jim Caster – Forecast Construction Management

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	52
tert-BUTYLBENZENE	98-06-6	8
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	15
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	45
n-PROPYLBENZENE	103-65-1	44
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	9

Michael Vendl

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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101-4 Colin Drive • Holbrook, New York 11741
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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<240
PHENOL	108-95-1	<240
2-CHLOROPHENOL	95-57-8	<240
1,3-DICHLOROBENZENE	541-73-1	<240
1,4-DICHLOROBENZENE	106-46-7	<240
1,2-DICHLOROBENZENE	95-50-1	<240
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<240
2-METHYLPHENOL	95-48-7	<240
HEXACHLOROETHANE	67-72-1	<240
N-NITROSODI-n-PROPYL AMINE	621-64-7	<240
4-METHYLPHENOL	106-44-5	<240
NITROBENZENE	98-95-3	<240
ISOPHORONE	78-59-1	<240
2-NITROPHENOL	88-75-5	<240
2,4-DIMETHYLPHENOL	105-67-9	<240
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<240
2,4-DICHLOROPHENOL	102-83-2	<240
1,2,4-TRICHLOROBENZENE	120-82-1	<240
NAPHTHALENE	91-20-3	1,604
4-CHLOROANILINE	106-47-8	<240
HEXACHLOROBUTADIENE	87-68-3	<240
4-CHLORO-3-METHYLPHENOL	59-50-7	<240
2-METHYLNAPHTHALENE	91-57-6	33,240
HEXACHLOROCYCLOPENTADIENE	77-47-4	<240
2,4,6-TRICHLOROPHENOL	88-06-2	<240
2,4,5-TRICHLOROPHENOL	95-95-4	<240
2-CHLORONAPHTHALENE	91-58-7	<240
2-NITROANILINE	88-74-4	<240
ACENAPHTHYLENE	208-96-8	<240
DIMETHYLPHTHALATE	131-11-3	<240
2,6-DINITROTOLUENE	606-20-2	<240
ACENAPHTHENE	83-32-9	4,086

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<240
2,4-DINITROPHENOL	51-28-5	2,281 200
DIBENZOFURAN	132-64-9	2,661
2,4-DINTROTOLUENE	121-14-2	<240
4-NITROPHENOL	100-02-7	<240
FLUORENE	86-73-7	6,418
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<240
DIETHYLPHTHALATE	84-66-2	<240
4-NITROANILINE	100-01-6	<240
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<240
N-NITROSODIPHENYLAMINE	86-30-6	<240
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<240
HEXACHLOROBENZENE	118-74-1	<240
PENTACHLORPHENOL	87-86-5	<240
PHENANTHRENE	85-01-8	15,802
ANTHRACENE	120-12-7	1,359
Di-n-BUTYLPHTHALATE	84-74-2	<240
FLUORANTHENE	206-44-0	2,057
PYRENE	129-00-0	2,630
BUTYLBENZYLPHTHALATE	85-68-7	<240
3,3-DICHLOROBENZIDINE	91-94-1	<240
BENZO-a-ANTHRACENE	56-55-3	630 220
CHRYSENE	218-01-9	948 100
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	626
DI-n-OCTYLPHTHALATE	117-84-0	<240
BENZO-b-FLUOROANTHENE	205-99-2	598 220
BENZO-k- FLUOROANTHENE	207-08-9	<240
BENZO-a-PYRENE	50-32-8	461 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	<240
DIBENZO-a,h-ANTHRACENE	53-70-3	<240
BENZO-g,h,i-PERYLENE	191-24-2	426

MDL's are raised due to matrix interference.

Michael Vendola
Laboratory Director

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ENE Wall
Date received: 07/05/02	Laboratory ID: 0219509
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	204
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	450
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	2,636
ANTHRACENE	120-12-7	838
Di-n-BUTYLPHTHALATE	84-74-2	44
FLUORANTHENE	206-44-0	4,053
PYRENE	129-00-0	3,929
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	1,733 221
CHRYSENE	218-01-9	2,009 100
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<40
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	2,027 220
BENZO-k- FLUOROANTHENE	207-08-9	718 220
BENZO-a-PYRENE	50-32-8	1,575 161
INDENO(1,2,3-c,d)PYRENE	193-39-5	1,055
DIBENZO-a,h-ANTHRACENE	53-70-3	132 14.3
BENZO-g,h,i-PERYLENE	191-24-2	780

Michael Venuti
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venard
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<40
PHENOL	108-95-1	<40
2-CHLOROPHENOL	95-57-8	<40
1,3-DICHLOROBENZENE	541-73-1	<40
1,4-DICHLOROBENZENE	106-46-7	<40
1,2-DICHLOROBENZENE	95-50-1	<40
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<40
2-METHYLPHENOL	95-48-7	<40
HEXACHLOROETHANE	67-72-1	<40
N-NITROSODI-n-PROPYL AMINE	621-64-7	<40
4-METHYLPHENOL	106-44-5	<40
NITROBENZENE	98-95-3	<40
ISOPHORONE	78-59-1	<40
2-NITROPHENOL	88-75-5	<40
2,4-DIMETHYLPHENOL	105-67-9	<40
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<40
2,4-DICHLOROPHENOL	102-83-2	<40
1,2,4-TRICHLOROBENZENE	120-82-1	<40
NAPHTHALENE	91-20-3	√499
4-CHLOROANILINE	106-47-8	<40
HEXACHLOROBUTADIENE	87-68-3	<40
4-CHLORO-3-METHYLPHENOL	59-50-7	<40
2-METHYLNAPHTHALENE	91-57-6	√206
HEXACHLOROCYCLOPENTADIENE	77-47-4	<40
2,4,6-TRICHLOROPHENOL	88-06-2	<40
2,4,5-TRICHLOROPHENOL	95-95-4	<40
2-CHLORONAPHTHALENE	91-58-7	<40
2-NITROANILINE	88-74-4	<40
ACENAPHTHYLENE	208-96-8	√243
DIMETHYLPHTHALATE	131-11-3	<40
2,6-DINITROTOLUENE	606-20-2	<40
ACENAPHTHENE	83-32-9	√399

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	806
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	934
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	3,116
ANTHRACENE	120-12-7	760
Di-n-BUTYLPHTHALATE	84-74-2	<40
FLUORANTHENE	206-44-0	3,142
PYRENE	129-00-0	2,969
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	1,208 324
CHRYSENE	218-01-9	1,381 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<40
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	1,365 220
BENZO-k- FLUOROANTHENE	207-08-9	603 220
BENZO-a-PYRENE	50-32-8	1,116 161
INDENO(1,2,3-c,d)PYRENE	193-39-5	798 3200
DIBENZO-a,h-ANTHRACENE	53-70-3	146 14.3
BENZO-g,h,i-PERYLENE	191-24-2	575

Michael Venditti

Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venaldi
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<80
PHENOL	108-95-1	<80
2-CHLOROPHENOL	95-57-8	<80
1,3-DICHLOROBENZENE	541-73-1	<80
1,4-DICHLOROBENZENE	106-46-7	<80
1,2-DICHLOROBENZENE	95-50-1	<80
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<80
2-METHYLPHENOL	95-48-7	<80
HEXACHLOROETHANE	67-72-1	<80
N-NITROSODI-n-PROPYL AMINE	621-64-7	<80
4-METHYLPHENOL	106-44-5	<80
NITROBENZENE	98-95-3	<80
ISOPHORONE	78-59-1	<80
2-NITROPHENOL	88-75-5	<80
2,4-DIMETHYLPHENOL	105-67-9	<80
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<80
2,4-DICHLOROPHENOL	102-83-2	<80
1,2,4-TRICHLOROBENZENE	120-82-1	<80
NAPHTHALENE	91-20-3	165
4-CHLOROANILINE	106-47-8	<80
HEXACHLOROBUTADIENE	87-68-3	<80
4-CHLORO-3-METHYLPHENOL	59-50-7	<80
2-METHYLNAPHTHALENE	91-57-6	114
HEXACHLOROCYCLOPENTADIENE	77-47-4	<80
2,4,6-TRICHLOROPHENOL	88-06-2	<80
2,4,5-TRICHLOROPHENOL	95-95-4	<80
2-CHLORONAPHTHALENE	91-58-7	<80
2-NITROANILINE	88-74-4	<80
ACENAPHTHYLENE	208-96-8	108
DIMETHYLPHTHALATE	131-11-3	<80
2,6-DINITROTOLUENE	606-20-2	<80
ACENAPHTHENE	83-32-9	189

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<80
2,4-DINITROPHENOL	51-28-5	<80
DIBENZOFURAN	132-64-9	138
2,4-DINTROTOLUENE	121-14-2	<80
4-NITROPHENOL	100-02-7	<80
FLUORENE	86-73-7	213
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<80
DIETHYLPHTHALATE	84-66-2	<80
4-NITROANILINE	100-01-6	<80
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<80
N-NITROSODIPHENYLAMINE	86-30-6	<80
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<80
HEXACHLOROBENZENE	118-74-1	<80
PENTACHLORPHENOL	87-86-5	<80
PHENANTHRENE	85-01-8	1,504
ANTHRACENE	120-12-7	483
Di-n-BUTYLPHTHALATE	84-74-2	<80
FLUORANTHENE	206-44-0	3,451
PYRENE	129-00-0	3,423
BUTYLBENZYLPHTHALATE	85-68-7	<80
3,3-DICHLOROBENZIDINE	91-94-1	<80
BENZO-a-ANTHRACENE	56-55-3	1,506 224
CHRYSENE	218-01-9	1,685 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<80
DI-n-OCTYLPHTHALATE	117-84-0	<80
BENZO-b-FLUOROANTHENE	205-99-2	1,587 220
BENZO-k- FLUOROANTHENE	207-08-9	727 220
BENZO-a-PYRENE	50-32-8	1,216 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	669
DIBENZO-a,h-ANTHRACENE	53-70-3	<80
BENZO-g,h,i-PERYLENE	191-24-2	605

MDL's are raised due to matrix interference.

Michael Venditti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WNW Wall
Date received: 07/05/02	Laboratory ID: 0219512
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	51
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	83
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	728
ANTHRACENE	120-12-7	194
Di-n-BUTYLPHTHALATE	84-74-2	<40
FLUORANTHENE	206-44-0	1,155
PYRENE	129-00-0	1,240
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	539 224
CHRYSENE	218-01-9	574 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	79
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	513 220
BENZO-k- FLUOROANTHENE	207-08-9	320 220
BENZO-a-PYRENE	50-32-8	437 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	377
DIBENZO-a,h-ANTHRACENE	53-70-3	<40
BENZO-g,h,i-PERYLENE	191-24-2	310

Michael Vendetti
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WSW Wall
Date received: 07/05/02	Laboratory ID: 0219513
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<50
BENZENE	71-43-2	<50
BROMOBENZENE	108-86-1	<50
BROMOCHLOROMETHANE	74-97-5	<50
BROMODICHLOROMETHANE	75-27-4	<50
BROMOFORM	75-25-4	<50
BROMOMETHANE	74-83-9	<50
n-BUTYLBENZENE	104-51-8	<50
sec-BUTYLBENZENE	135-98-8	<50
tert-BUTYLBENZENE	98-06-6	<50
CARBON TETRACHLORIDE	56-23-5	<50
CHLOROBENZENE	108-90-7	<50
CHLORODIBROMOMETHANE	124-48-1	<50
CHLOROETHANE	75-00-3	<50
CHLOROFORM	67-66-3	<50
CHLOROMETHANE	74-87-3	<50
2-CHLOROTOLUENE	95-49-8	<50
4-CHLOROTOLUENE	106-43-4	<50
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<50
DIBROMOCHLOROMETHANE	124-48-1	<50
1,2-DIBROMOETHANE	106-93-4	<50
DIBROMOMETHANE	74-95-3	<50
1,2-DICHLOROBENZENE	95-50-1	<50
1,3-DICHLOROBENZENE	541-73-1	<50
1,4-DICHLOROBENZENE	106-46-7	<50
DICHLORODIFLUOROMETHANE	75-71-8	<50
1,1-DICHLOROETHANE	75-34-3	<50
1,2-DICHLOROETHANE	107-06-2	<50
1,1-DICHLOROETHENE	75-35-4	<50
cis-1,2-DICHLOROETHENE	156-59-2	<50
trans-1,2-DICHLOROETHENE	156-60-5	<50

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WSW Wall
Date received: 07/05/02	Laboratory ID: 0219513
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<50
1,3-DICHLOROPROPANE	142-28-9	<50
2,2-DICHLOROPROPANE	594-20-7	<50
1,1-DICHLOROPROPENE	563-58-6	<50
cis-1,3-DICHLOROPROPENE	10061-01-5	<50
trans-1,3-DICHLOROPROPENE	10061-02-6	<50
ETHYLBENZENE	100-41-4	<50
HEXACHLOROBUTADIENE	87-68-3	<50
ISOPROPYLBENZENE	98-82-8	<50
p-ISOPROPYLTOLUENE	99-87-6	179
METHYLENE CHLORIDE	75-09-2	<50
NAPHTHALENE	91-20-3	111
n-PROPYLBENZENE	103-65-1	<50
STYRENE	100-42-5	116
1,1,1,2-TETRACHLOROETHANE	630-20-6	<50
1,1,2,2-TETRACHLOROETHANE	79-34-5	<50
TETRACHLOROETHENE	127-18-4	<50
TOLUENE	108-88-3	<50
1,2,3-TRICHLOROBENZENE	87-61-6	<50
1,2,4-TRICHLOROBENZENE	120-82-1	<50
1,1,1-TRICHLOROETHANE	71-55-6	<50
1,1,2-TRICHLOROETHANE	79-00-5	118
TRICHLOROETHENE	79-01-6	<50
TRICHLOROFLUOROMETHANE	75-69-4	<50
1,2,3-TRICHLOROPROPANE	96-18-4	<50
1,2,4-TRIMETHYLBENZENE	95-63-6	806
1,3,5-TRIMETHYLBENZENE	108-67-8	7,750 3300
VINYL CHLORIDE	75-01-4	<50
p & m-XYLENES	1330-20-7	470
o-XYLENE	1330-20-7	6,470

MDL's are raised due to matrix interference.

Michael Venuti
Laboratory Director

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn Ground Water
Date received: 07/05/02	Laboratory ID: 0219516
Date extracted: 07/10/02	Matrix: Liquid
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	40
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn Ground Water
Date received: 07/05/02	Laboratory ID: 0219516
Date extracted: 07/10/02	Matrix: Liquid
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98 82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	110
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79 34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96 18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	49
1,3,5-TRIMETHYLBENZENE	108-67-8	20
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	26
o-XYLENE	1330-20-7	11

Michael Venezia
Laboratory Director

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Testwell Laboratories, Inc.
7 HUDSON STREET, OSSINING, NEW YORK 10562 TEL: (914)944-2578(FAX)

CLIENT NAME FED EX / GILBANE
CLIENT ADDRESS
PROJECT SITE 300 MASPETH AVE, BROOK
CONTACT NAME & PHONE #
NAME

CLIENT/FIELD SAMPLE #	LAB SAMPLE #	EXACT SAMPLE LOCATION
1 SOIL	0219508	ESE WALL BENZENE Tot. BUTYLBENZE See BUTYLBEN
2 SOIL	0219509	ENE WALL
3 SOIL	0219510	NNE WALL
SOIL	0219511	NNW WALL
SOIL	0219512	WNW WALL
SOIL	0219513	WSW WALL
SOIL	0219514	SSW WALL
SOIL	0219515	SSE WALL
WATER	0219516	GROUND WATER

MENTS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Jean Pence	7/3/02		
RECEIVED BY:	DATE:	TIME:	RELINQUISHED BY:

TOTAL P.05

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/05/02	Laboratory ID: 0219508-0219515
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0219508	ESE Wall	232
0219509	ENE Wall	145
0219510	NNE Wall	88.9
0219511	NNW Wall	77.1
0219512	WNW Wall	19.5
0219513	WSW Wall	18.0
0219514	SSW Wall	16.7
0219515	SSE Wall	43.5

Performed by SW-846 Method 6010

Michael Vandell

Laboratory Director

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
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FAX TRANSMITTAL FORM

Job #: 39936.000

cc: John LaRow 718 384 1845
Robert Dengler 412 859-5450

To: Jeff Vought	
Company: NYSDEC	Fax Number: 718 482-4098
From: Gregory Ernst	Extension:
Date: 8/13/02	# of Pages (Including this Page): 5

Comments: Please see attached.

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Gannett Fleming

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VIA FACSIMILE (718) 482-4098

August 13, 2002
File # 39936

Jeff Vought
New York State Department of
Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804

Dear Mr. Vought:

Gannett Fleming Engineers and Architects, P.C. has been retained by FedEx Ground to provide environmental consulting services at the 300 Maspeth Avenue facility in Brooklyn. This letter is intended to inform the New York State Department of Environmental Conservation (NYSDEC) of the projected site remediation activities surrounding the underground storage tanks (USTs) related to the construction at the site.

As we discussed on Wednesday, August 7th, data collected by Testwell Laboratories, Inc. indicated the UST excavation end points were substantially in compliance with NYSDEC Recommended Soil Cleanup Objectives with the exception of the soil sample collected along the northern wall of the excavation (Samples ENE, NNE, and NNW). Residual petroleum was also detected in groundwater observed in the excavation.

This characterization is important to the construction schedule, since the footprint of the facility expansion work will cover a portion of the UST excavation. The approximate location of the facility expansion footprint relative to the UST excavation is provided on the attached Location Plan.

Based on the end point soil data (Samples WSW and SSW), no further action is recommended for the soil beneath facility footprint, which is currently under construction. Additionally, no groundwater monitoring wells are proposed inside of the facility. Any future groundwater monitoring wells will be installed within parking areas and/or the 35-foot wide alleyway that will remain around the exterior of the facility. The completion of the facility expansion will not obstruct further investigation of petroleum impacts along the northern wall of the UST excavation.

Gannett Fleming will provide a comprehensive site investigation report on both the UST removal (Spill #0202804) and for the black tar-like substance found in the southwestern portion of the site (Spill #0204002) as additional data for these locations becomes available. This data is not expected to affect our recommendations.
Please indicate the NYSDEC's response to these recommendations. Your timely response will be greatly appreciated, since the construction in the former UST excavation area is proceeding rapidly.

Please call with any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY ERNST
Senior Scientist

STEPHEN R. HIX
Director, Environmental Services

Encl.

cc: Robert Dengler, FedEx Ground
John LaRow, Gilbane Construction

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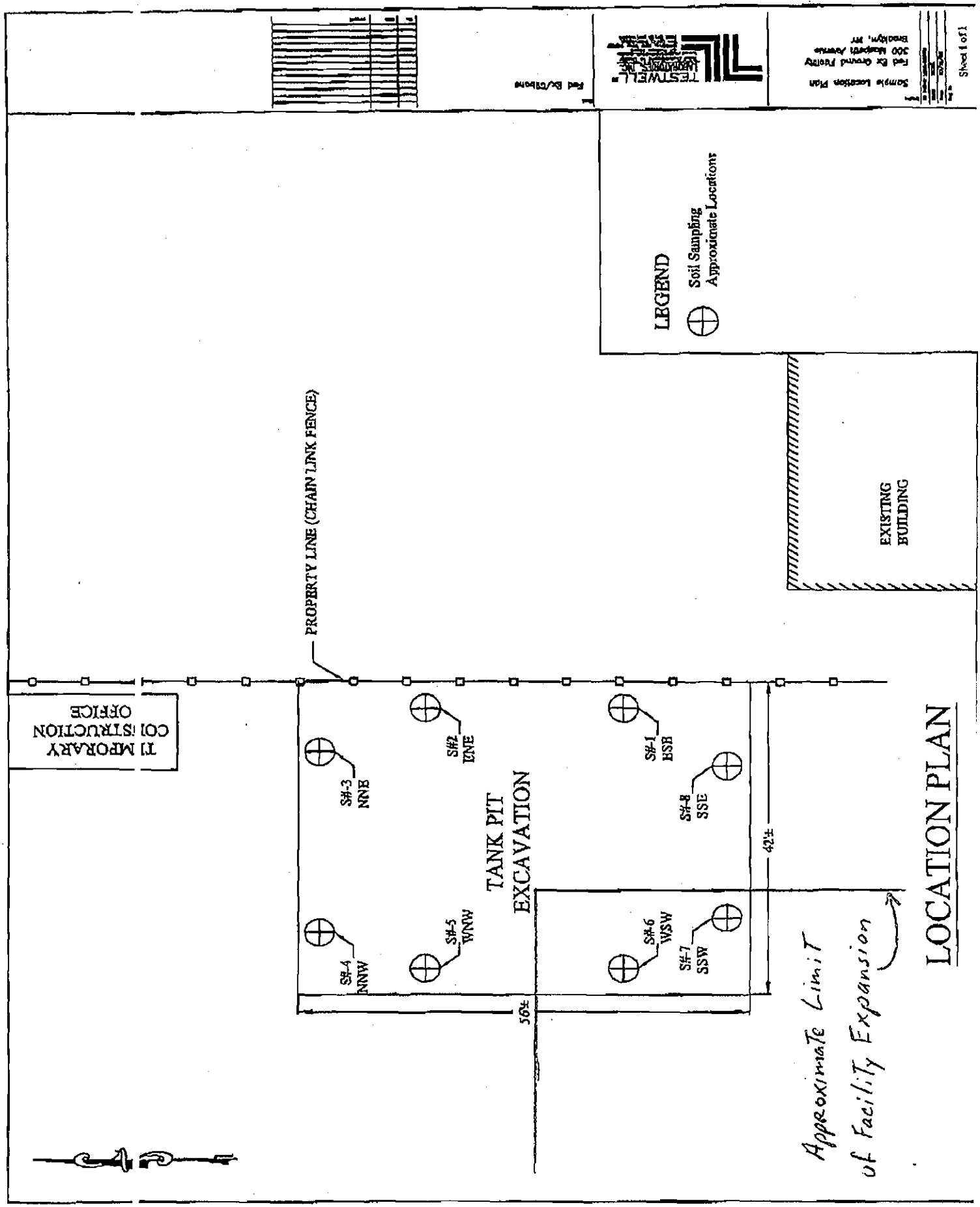
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - UST EXCAVATION
NYSDEC Spill #0202804
FEDEX GROUND FACILITY
300 MASPETH AVENUE
BROOKLYN, NY

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	ESE	ENE	NNE	NNW	WNW	WSW	SSW	SSE
SAMPLE DATE:		7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02
VOCs (ppb) - EPA Method 8021									
M&P-Xylenes[1]	1200	-	-	-	-	-	-	-	3,677
O-Xylene[1]	1200	-	-	-	-	-	6,470/1200	-	17,852
1,3,5-Trimethylbenzene	3300	-	-	-	-	-	7750/3300		15,107
PAHs (ppb) - EPA Method 8270									
2,4-Dinitrophenol	200	2,281	-	-	-	-	-	-	380
Benzo(a)anthracene	224 or MDL	630	1,733	1,208	1,506	539	381	-	1,947
Chrysene	400	948	2,009	1,381	1,685	574	-	-	1,989
Benzo(b)fluoranthene	61 or MDL	598	2,027	1,365	1,587	513	245	-	1,384
Benzo(k)fluoranthene	610 or MDL	-	718	-	727	-	-	-	660
Benzo(a)pyrene	61 or MDL	461	1,575	1,116	1,216	437	270	-	1,140
Ideno(1,2,3-cd)pyrene	3200	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	14.3 or MDL	-	132	-	-	-	-	-	46

NOTES:
Samples collected by Testwell Laboratories, Inc. and analyzed by Long Island Analytical Laboratories Inc.

-	Analytical data did not exceed TAGM 4046 objectives
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
MDL	Method Detection Limit


LEGEND
Soil Sampling
Approximate Locations
EXISTING BUILDING
PROPERTY LINE (CHAIN LINK FENCE)
TEMPORARY CONSTRUCTION OFFICE
S#-1 ESE
S#-2 ENE
S#-3 NNE
S#-4 NNW
S#-5 WNW
S#-6 WSW
S#-7 SSW
S#-8 SSE
TANK PIT EXCAVATION
42'±
56'±
Approximate Limit of Facility Expansion
LOCATION PLAN

Gannett Fleming

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FAX TRANSMITTAL FORM

Job #: 39936.000

CC: Robert Dengler 412 859-5450

To: Jeffrey Vought	
Company: NYSDEC	Fax Number: 718 482 4098
From: Gregory Ernst	Extension:
Date: 8/16/02	# of Pages (Including this Page): 10

Comments: Soil Data for UST Excavation w/ site Plan.

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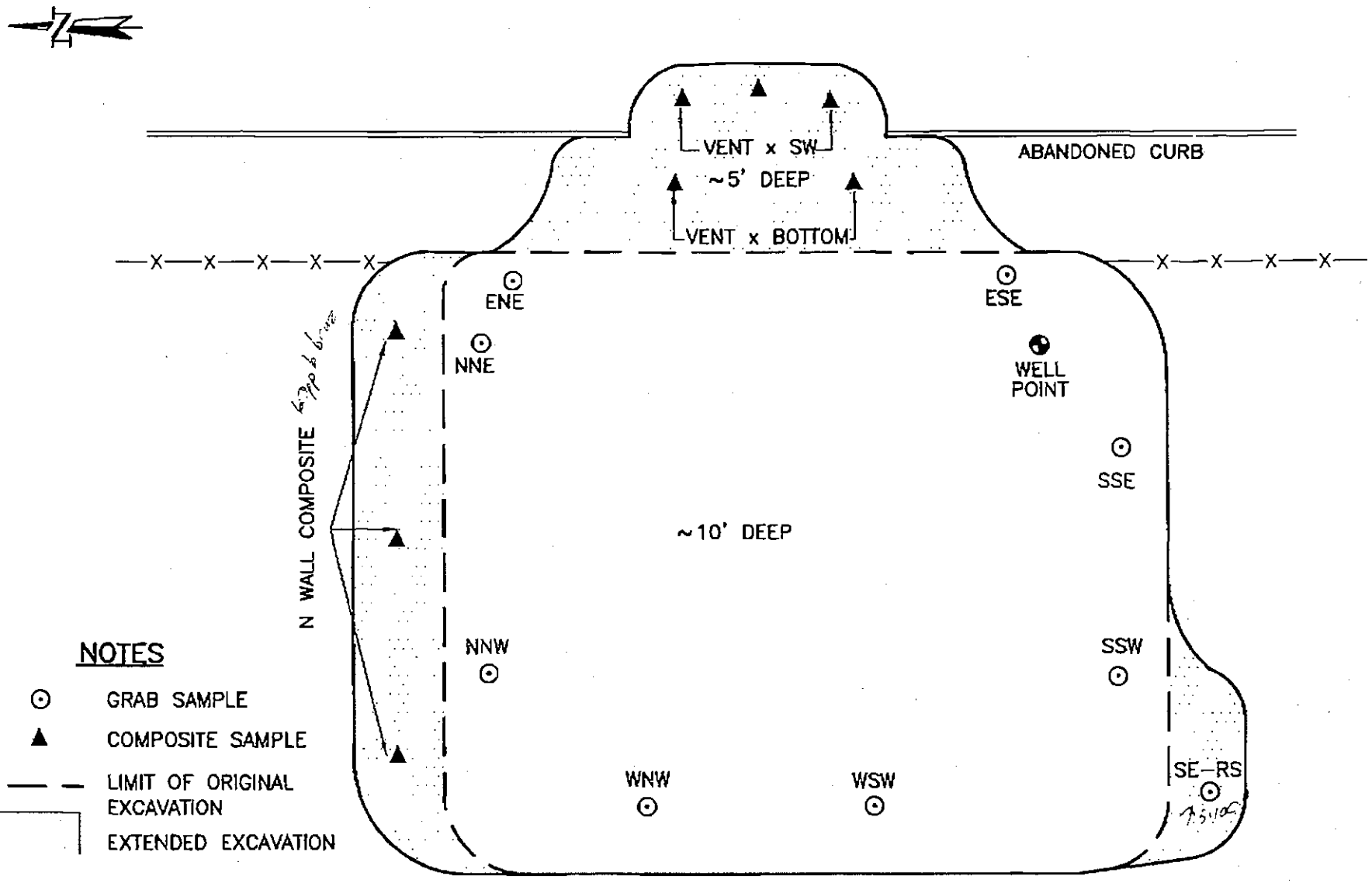

UST EXCAVATION SITE PLAN

FEDEX GROUND

300 MASPETH AVE., BROOKLYN, NEW YORK

39936B
081202

Gannett Fleming

FIGURE 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.01 08/05/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Toluene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Ethyl Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
m + p Xylene	ug/Kg	< 11		08/03/02	10.869	EPA8021
o Xylene	ug/Kg	29		08/03/02	5.4347	EPA8021
Xylene	ug/Kg	36		08/03/02	16.304	EPA8021
Isopropylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
n-Propylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
135-Trimethylbenzene	ug/Kg	350		08/03/02	5.4347	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
sec-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
p-Isopropyltoluene	ug/Kg	20		08/03/02	5.4347	EPA8021
n-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Naphthalene(7)	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
tert-Butylbenzene	ug/Kg	9.8		08/03/02	5.4347	EPA8021
% Solids		92		07/29/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 26609 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.01 08/05/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	460		07/30/02	326.08	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Phenanthrene	ug/Kg	1300		07/30/02	326.08	EPA8270
Anthracene	ug/Kg	540		07/30/02	326.08	EPA8270
Fluoranthene	ug/Kg	2800		07/30/02	326.08	EPA8270
Pyrene	ug/Kg	2800		07/30/02	326.08	EPA8270
Benzo(a)anthracene	ug/Kg	1400/204		07/30/02	326.08	EPA8270
Chrysene	ug/Kg	1300/400		07/30/02	326.08	EPA8270
Benzo(b)fluoranthene	ug/Kg	1500/220	*	07/30/02	326.08	EPA8270
Benzo(k)fluoranthene	ug/Kg	1500/220	*	07/30/02	326.08	EPA8270
Benzo(a)pyrene	ug/Kg	1500/69		07/30/02	326.08	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	410		07/30/02	326.08	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Benzo(ghi)perylene	ug/Kg	400		07/30/02	326.08	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 3000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 16610 NYSDOH ID # 10320

08/05/2002 MON 09:53 [TX/RX NO 7654]

08/16/2002 12:26 FAX 5166713552 GANNETT FLEMING

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.02 08/09/02 UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Benzene *	ug/Kg	120/60		08/03/02	5.5555	EPA8021
Toluene	ug/Kg	30		08/03/02	5.5555	EPA8021
Ethyl Benzene	ug/Kg	310		08/03/02	5.5555	EPA8021
m + p Xylene	ug/Kg	1100		08/03/02	11.111	EPA8021
o Xylene	ug/Kg	190		08/03/02	5.5555	EPA8021
Xylene	ug/Kg	1200		08/03/02	16.666	EPA8021
Isopropylbenzene	ug/Kg	92		08/03/02	5.5555	EPA8021
n-Propylbenzene	ug/Kg	180		08/03/02	5.5555	EPA8021
135-Trimethylbenzene	ug/Kg	5900/2300		08/03/02	5.5555	EPA8021
124-Trimethylbenzene	ug/Kg	11000/10000		08/03/02	5.5555	EPA8021
sec-Butylbenzene	ug/Kg	80		08/03/02	5.5555	EPA8021
p-Isopropyltoluene	ug/Kg	240		08/03/02	5.5555	EPA8021
n-Butylbenzene	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Naphthalene(1)	ug/Kg	190		08/03/02	5.5555	EPA8021
tert-Butylbenzene	ug/Kg	13		08/03/02	5.5555	EPA8021

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rm = 16611 NYSDOH ID # 10320

08/16/2002 12:26 FAX 5166713352 GANNETT FLEMING 005/010

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

UST

LAB NO.223492.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(w)	ug/Kg	370		07/30/02	333.33	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Phenanthrene	ug/Kg	860		07/30/02	333.33	EPA8270
Anthracene	ug/Kg	340		07/30/02	333.33	EPA8270
Fluoranthene	ug/Kg	2000		07/30/02	333.33	EPA8270
Pyrene	ug/Kg	2000		07/30/02	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	940 / 224		07/30/02	333.33	EPA8270
Chrysene	ug/Kg	910 / 100		07/30/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	940 / 220	*#	07/30/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	940 / 220	*#	07/30/02	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	1000 / 61	#	07/30/02	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	330	#	07/30/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330	#	07/30/02	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	330	#	07/30/02	333.33	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 1880 ug/Kg, unable to separate isomers.
#Estimated due to low internal standard, *46%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 16612 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.01 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	112.35	EPA8021
Benzene	ug/Kg	110		08/07/02	112.35	EPA8021
Toluene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Ethyl Benzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
m + p Xylene	ug/Kg	220		08/07/02	224.71	EPA8021
o Xylene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Xylene	ug/Kg	310		08/07/02	337.07	EPA8021
Isopropylbenzene	ug/Kg	430		08/07/02	112.35	EPA8021
n-Propylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
135-Trimethylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
124-Trimethylbenzene	ug/Kg	170		08/07/02	112.35	EPA8021
sec-Butylbenzene	ug/Kg	850		08/07/02	112.35	EPA8021
p-Isopropyltoluene	ug/Kg	110		08/07/02	112.35	EPA8021
n-Butylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
Naphthalene(1)	ug/Kg	900		08/07/02	112.35	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
% Solids		89		07/31/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17018 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.01 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	520		08/02/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Phenanthrene	ug/Kg	2000		08/02/02	337.07	EPA8270
Anthracene	ug/Kg	520		08/02/02	337.07	EPA8270
Fluoranthene	ug/Kg	2900		08/02/02	337.07	EPA8270
Pyrene	ug/Kg	2600		08/02/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	1200/224		08/02/02	337.07	EPA8270
Chrysene	ug/Kg	1300/400		08/02/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	960/220	#	08/02/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	960/220	#	08/02/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	1100/68		08/02/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	600		08/02/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	630		08/02/02	337.07	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 1920 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17019 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.02 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	114.94	EPA8021
Benzene	ug/Kg	110 No		08/07/02	114.94	EPA8021
Toluene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Ethyl Benzene	ug/Kg	230		08/07/02	114.94	EPA8021
m + p Xylene	ug/Kg	600		08/07/02	229.88	EPA8021
o Xylene	ug/Kg	140		08/07/02	114.94	EPA8021
Xylene	ug/Kg	740		08/07/02	344.82	EPA8021
Isopropylbenzene	ug/Kg	260		08/07/02	114.94	EPA8021
n-Propylbenzene	ug/Kg	860		08/07/02	114.94	EPA8021
135-Trimethylbenzene	ug/Kg	830		08/07/02	114.94	EPA8021
124-Trimethylbenzene	ug/Kg	1700		08/07/02	114.94	EPA8021
sec-Butylbenzene	ug/Kg	410		08/07/02	114.94	EPA8021
p-Isopropyltoluene	ug/Kg	200		08/07/02	114.94	EPA8021
n-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Naphthalene(*)	ug/Kg	1100		08/07/02	114.94	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
% Solids		87		07/31/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17020 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.02 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		08/02/02	344.82	EPA8270
Acenaphthene	ug/Kg	520		08/02/02	344.82	EPA8270
Fluorene	ug/Kg	520		08/02/02	344.82	EPA8270
Phenanthrene	ug/Kg	5900		08/02/02	344.82	EPA8270
Anthracene	ug/Kg	1100		08/02/02	344.82	EPA8270
Fluoranthene	ug/Kg	5400		08/02/02	344.82	EPA8270
Pyrene	ug/Kg	6200		08/02/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	2500 / 224		08/02/02	344.82	EPA8270
Chrysene	ug/Kg	2500 / 400		08/02/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	2000 / 220	#	08/02/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	2000 / 220	#	08/02/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	2400 / 61		08/02/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	780		08/02/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340 / 44		08/02/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	780		08/02/02	344.82	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 4000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17021 NYSDOH ID # 10320

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707

Phone: (516) 671-8440
Fax: (516) 671-3349
Internet: www.gannettfleming.com

FAX TRANSMITTAL FORM

Job #: 39936.000

cc: Robert Deugler : 412 859 5450

To: Jeffrey VoughT	
Company: NYSOEC	Fax Number: 718 482 4098
From: Greg ErnsT	Extension:
Date: 8/16/02	# of Pages (Including this Page): 17

Comments:

Soil Data for Black-stained soils
Located in southwestern portion of ~~site~~
FedEx Ground site at 300 Maspeth Ave. Bkln.

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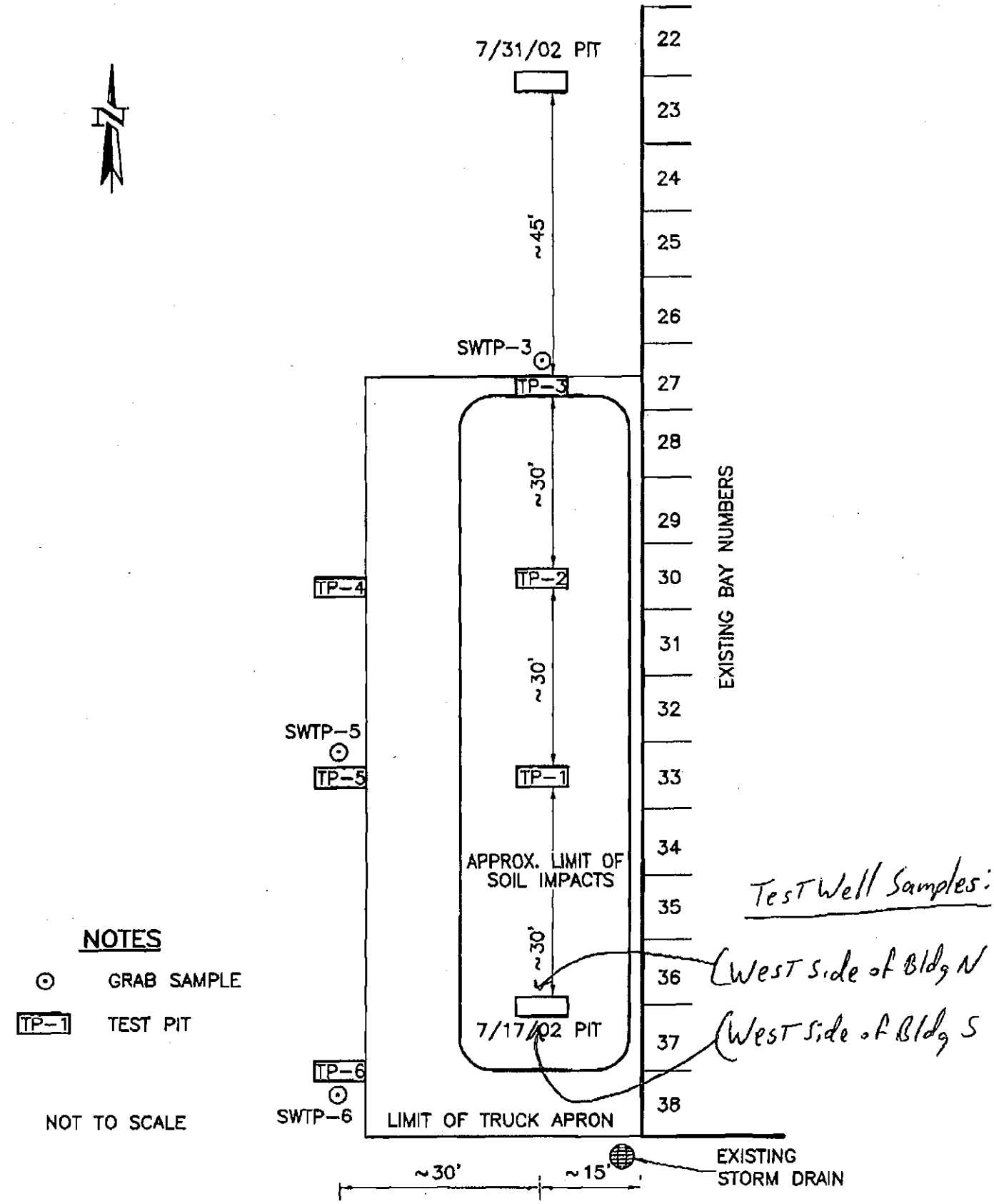

SCHEMATIC OF TEST PIT EXCAVATIONS

FEDEX GROUND

SOUTHWEST PORTION OF MASPETH AVE, BROOKLYN, NEW YORK

SN39936C
081202

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	21
NAPHTHALENE	91-20-3	6
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venuti

Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<400
PHENOL	108-95-1	<400
2-CHLOROPHENOL	95-57-8	<400
1,3-DICHLOROBENZENE	541-73-1	<400
1,4-DICHLOROBENZENE	106-46-7	<400
1,2-DICHLOROBENZENE	95-50-1	<400
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<400
2-METHYLPHENOL	95-48-7	<400
HEXACHLOROETHANE	67-72-1	<400
N-NITROSODI-n-PROPYL AMINE	621-64-7	<400
4-METHYLPHENOL	106-44-5	<400
NITROBENZENE	98-95-3	<400
ISOPHORONE	78-59-1	<400
2-NITROPHENOL	88-75-5	<400
2,4-DIMETHYLPHENOL	105-67-9	<400
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<400
2,4-DICHLOROPHENOL	102-83-2	<400
1,2,4-TRICHLOROBENZENE	120-82-1	<400
NAPHTHALENE	91-20-3	942
4-CHLOROANILINE	106-47-8	<400
HEXACHLOROBUTADIENE	87-68-3	<400
4-CHLORO-3-METHYLPHENOL	59-50-7	<400
2-METHYLNAPHTHALENE	91-57-6	1,099
HEXACHLOROCYCLOPENTADIENE	77-47-4	<400
2,4,6-TRICHLOROPHENOL	88-06-2	<400
2,4,5-TRICHLOROPHENOL	95-95-4	<400
2-CHLORONAPHTHALENE	91-58-7	<400
2-NITROANILINE	88-74-4	<400
ACENAPHTHYLENE	208-96-8	437
DIMETHYLPHTHALATE	131-11-3	<400
2,6-DINITROTOLUENE	606-20-2	<400
ACENAPHTHENE	83-32-9	1,885

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<400
2,4-DINITROPHENOL	51-28-5	<400
DIBENZOFURAN	132-64-9	1,118
2,4-DINTROTOLUENE	121-14-2	<400
4-NITROPHENOL	100-02-7	<400
FLUORENE	86-73-7	2,399
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<400
DIETHYLPHTHALATE	84-66-2	<400
4-NITROANILINE	100-01-6	<400
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<400
N-NITROSODIPHENYLAMINE	86-30-6	<400
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<400
HEXACHLOROBENZENE	118-74-1	<400
PENTACHLORPHENOL	87-86-5	<400
PHENANTHRENE	85-01-8	11,895
ANTHRACENE	120-12-7	3,309
Di-n-BUTYLPHTHALATE	84-74-2	<400
FLUORANTHENE	206-44-0	14,105
PYRENE	129-00-0	15,036
BUTYLBENZYLPHTHALATE	85-68-7	<400
3,3-DICHLOROBENZIDINE	91-94-1	<400
BENZO-a-ANTHRACENE	56-55-3	6,124 /229
CHRYSENE	218-01-9	7,200 /400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<400
DI-n-OCTYLPHTHALATE	117-84-0	<400
BENZO-b-FLUOROANTHENE	205-99-2	6,333 /220
BENZO-k- FLUOROANTHENE	207-08-9	2,570 /220
BENZO-a-PYRENE	50-32-8	5,307 /61
INDENO(1,2,3-c,d)PYRENE	193-39-5	2,761
DIBENZO-a,h-ANTHRACENE	53-70-3	808 /113
BENZO-g,h,i-PERYLENE	191-24-2	2,373

MDL's are raised due to matrix interference.

Michael Venedi

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@liailinc.com

Page 6 of 10

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	8
sec-BUTYLBENZENE	135-98-8	6
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. 6
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	53
n-PROPYLBENZENE	103-65-1	6
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	23
1,3,5-TRIMETHYLBENZENE	108-67-8	6
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venditto

Laboratory Directo

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8605 • Email: LIAL@li linc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<800
PHENOL	108-95-1	<800
2-CHLOROPHENOL	95-57-8	<800
1,3-DICHLOROBENZENE	541-73-1	<800
1,4-DICHLOROBENZENE	106-46-7	<800
1,2-DICHLOROBENZENE	95-50-1	<800
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<800
2-METHYLPHENOL	95-48-7	<800
HEXACHLOROETHANE	67-72-1	<800
N-NITROSODI-n-PROPYL AMINE	621-64-7	<800
4-METHYLPHENOL	106-44-5	<800
NITROBENZENE	98-95-3	<800
ISOPHORONE	78-59-1	<800
2-NITROPHENOL	88-75-5	<800
2,4-DIMETHYLPHENOL	105-67-9	<800
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<800
2,4-DICHLOROPHENOL	102-83-2	<800
1,2,4-TRICHLOROBENZENE	120-82-1	<800
NAPHTHALENE	91-20-3	1,914
4-CHLOROANILINE	106-47-8	<800
HEXACHLOROBUTADIENE	87-68-3	<800
4-CHLORO-3-METHYLPHENOL	59-50-7	<800
2-METHYLNAPHTHALENE	91-57-6	1,742
HEXACHLOROCYCLOPENTADIENE	77-47-4	<800
2,4,6-TRICHLOROPHENOL	88-06-2	<800
2,4,5-TRICHLOROPHENOL	95-95-4	<800
2-CHLORONAPHTHALENE	91-58-7	<800
2-NITROANILINE	88-74-4	<800
ACENAPHTHYLENE	208-96-8	826
DIMETHYLPHTHALATE	131-11-3	<800
2,6-DINITROTOLUENE	606-20-2	<800
ACENAPHTHENE	83-32-9	3,083

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<800
2,4-DINITROPHENOL	51-28-5	<800
DIBENZOFURAN	132-64-9	2,476
2,4-DINTROTOLUENE	121-14-2	<800
4-NITROPHENOL	100-02-7	<800
FLUORENE	86-73-7	4,496
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<800
DIETHYLPHTHALATE	84-66-2	<800
4-NITROANILINE	100-01-6	<800
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<800
N-NITROSODIPHENYLAMINE	86-30-6	<800
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<800
HEXACHLOROBENZENE	118-74-1	<800
PENTACHLORPHENOL	87-86-5	<800
PHENANTHRENE	85-01-8	23,383
ANTHRACENE	120-12-7	6,100
Di-n-BUTYLPHTHALATE	84-74-2	<800
FLUORANTHENE	206-44-0	24,831
PYRENE	129-00-0	23,487
BUTYLBENZYLPHTHALATE	85-68-7	<800
3,3-DICHLOROBENZIDINE	91-94-1	<800
BENZO-a-ANTHRACENE	56-55-3	9,894 /220
CHRYSENE	218-01-9	11,004 /400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<800
DI-n-OCTYLPHTHALATE	117-84-0	<800
BENZO-b-FLUOROANTHENE	205-99-2	9,353 /220
BENZO-k- FLUOROANTHENE	207-08-9	4,417 /220
BENZO-a-PYRENE	50-32-8	7,601 /61
INDENO(1,2,3-c,d)PYRENE	193-39-5	4,452 /3200
DIBENZO-a,h-ANTHRACENE	53-70-3	1,166 /14.3
BENZO-g,h,I-PERYLENE	191-24-2	3,468

MDL's are raised due to matrix interference.

Michael Venezia

Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/19/02	Laboratory ID: 0220326-0220327
Date extracted: 07/23/02	Matrix: Soil
Date analyzed: 07/23/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0220326	West Side of Building N	433
0220327	West Side of Building S	216

Performed by SW-846 Method 6010

Michael Vendetti
Laboratory Director

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
m + p Xylene	ug/Kg	< 4.7		08/07/02	4.6511	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Xylene	ug/Kg	< 7.0		08/07/02	6.9767	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
124-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Naphthalene(*)	ug/Kg	48		08/07/02	2.3255	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
% Solids		86		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17582 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1400		08/09/02	348.83	EPA8270
Acenaphthene	ug/Kg	670		08/09/02	348.83	EPA8270
Fluorene	ug/Kg	1600		08/09/02	348.83	EPA8270
Phenanthrene	ug/Kg	6300		08/09/02	348.83	EPA8270
Anthracene	ug/Kg	1700		08/09/02	348.83	EPA8270
Fluoranthene	ug/Kg	7100		08/09/02	348.83	EPA8270
Pyrene	ug/Kg	6400		08/09/02	348.83	EPA8270
Benzo(a)anthracene	ug/Kg	3400		08/09/02	348.83	EPA8270
Chrysene	ug/Kg	3400		08/09/02	348.83	EPA8270
Benzo(b)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(k)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(a)pyrene	ug/Kg	3000		08/09/02	348.83	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1200		08/09/02	348.83	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	510		08/09/02	348.83	EPA8270
Benzo(ghi)perylene	ug/Kg	1100		08/09/02	348.83	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =5600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17583 NYSDOH ID # 10320 Page 2 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Benzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
Toluene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Ethyl Benzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
m + p Xylene	ug/Kg	< 4.8		08/07/02	4.8192	EPA8021
o Xylene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Xylene	ug/Kg	< 7.2		08/07/02	7.2289	EPA8021
Isopropylbenzene	ug/Kg	6.0		08/07/02	2.4096	EPA8021
n-Propylbenzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
124-Trimethylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
sec-Butylbenzene	ug/Kg	8.4		08/07/02	2.4096	EPA8021
p-Isopropyltoluene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
n-Butylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Naphthalene(**)	ug/Kg	29		08/07/02	2.4096	EPA8021
tert-Butylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
% Solids		83		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17584 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1700		08/09/02	361.44	EPA8270
Acenaphthene	ug/Kg	1200		08/09/02	361.44	EPA8270
Fluorene	ug/Kg	1400		08/09/02	361.44	EPA8270
Phenanthrene	ug/Kg	8600		08/09/02	361.44	EPA8270
Anthracene	ug/Kg	2200		08/09/02	361.44	EPA8270
Fluoranthene	ug/Kg	11000		08/09/02	361.44	EPA8270
Pyrene	ug/Kg	11000		08/09/02	361.44	EPA8270
Benzo(a)anthracene	ug/Kg	6300		08/09/02	361.44	EPA8270
Chrysene	ug/Kg	6300		08/09/02	361.44	EPA8270
Benzo(b)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(k)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(a)pyrene	ug/Kg	5800		08/09/02	361.44	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2500		08/09/02	361.44	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	1300		08/09/02	361.44	EPA8270
Benzo(ghi)perylene	ug/Kg	2400		08/09/02	361.44	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =11000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17585 NYSDOH ID # 10320 Page 2 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.03 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
m + p Xylene	ug/Kg	< 4.6		08/07/02	4.5977	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Xylene	ug/Kg	< 6.9		08/07/02	6.8965	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
124-Trimethylbenzene	ug/Kg	2.3		08/07/02	2.2988	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Naphthalene(1)	ug/Kg	37		08/07/02	2.2988	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
% Solids		87		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17586 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
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LAB NO.223612.03 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1500		08/09/02	344.82	EPA8270
Acenaphthene	ug/Kg	710		08/09/02	344.82	EPA8270
Fluorene	ug/Kg	780		08/09/02	344.82	EPA8270
Phenanthrene	ug/Kg	6700		08/09/02	344.82	EPA8270
Anthracene	ug/Kg	1800		08/09/02	344.82	EPA8270
Fluoranthene	ug/Kg	8000		08/09/02	344.82	EPA8270
Pyrene	ug/Kg	8300		08/09/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	4000		08/09/02	344.82	EPA8270
Chrysene	ug/Kg	4000		08/09/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	3700		08/09/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		08/09/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	780		08/09/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	1700		08/09/02	344.82	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =6600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17587 NYSDOH ID # 10320 Page 2 of 2

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
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Internet: www.gannettfleming.com

August 28 2002
File # 39936

Jeff Vought
New York State Department
of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

up by garage - product 101' -

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter supplements our August 13, 2002 correspondence discussing the initial site assessment and projected remediation activities for petroleum impacts observed (New York State Department of Environmental Conservation (NYSDEC) Spill #0202804 and #0204002 at the FedEx Ground facility located at 300 Maspeth Avenue, Brooklyn, New York. A site location map is provided as Figure 1, attached. This letter provides a summary of the additional investigation activities and sample analysis that have taken place since the initial sampling and assessment by Testwell in July 2002.

Spill 0202804: UST Area

From June 17 to July 3, 2002, Brookside Environmental Services (Brookside) removed 20 USTs and approximately 900 tons of petroleum-impacted soil surrounding the USTs under the direction of Testwell. From July 26 to July 30, 2002, the UST excavation was backfilled by Brookside using structural fill (DOT Item 4). Gannett Fleming observed backfilling the excavation. Prior to backfilling, additional soil was removed from the northern wall and from the southwest corner of the excavation to assess the extent of volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) detected in the end point samples collected by Testwell (see Table 1). The remaining vent lines were excavated and removed from the neighboring property on July 30, 2002 by Brookside under the direction of Gannett Fleming. Figure 2 provides a site plan of the former UST excavation area. Photos of the UST and vent lines excavations are also provided in Attachment A.

On July 2, 2002, Testwell collected a groundwater sample from the bottom of the UST excavation. Analysis of the groundwater detected a number of VOCs above NYSDEC guidance values. However, turbidity of the sample may adversely affect the data. Therefore, a well point was also installed in the southeastern portion of the former UST

excavation to further assess groundwater quality near the former USTs. The well point will be incorporated into a site-wide groundwater investigation (see Recommendations).

Following the removal of the additional sidewall material and the remaining vent lines, end point soil samples were collected by Gannett Fleming. End point soil samples were comprised of one composite soil sample collected from three locations along the northern wall and one grab soil sample from the southwest corner of the UST excavation, and two composite soil samples from the bottom and sidewall following the removal of the vent lines along the eastern sidewall of the UST excavation (see Figure 2). The soil samples were placed in an ice-filled insulated cooler and delivered to Ecotest Laboratories, Inc. (NYSDOH Certification ID#10320). Chain-of Custody protocols were followed for the handling and delivery of the soil samples.

The soil samples were submitted for analysis of VOCs and PAHs listed in Table 2 of the NYSDEC Spill Technology and Remediation Series (STARS) Memorandum #1. The data was compared to the Recommended Soil Cleanup Objectives (RSCOs) provided in the NYSDEC Technical Administrative Guidance Memorandum #4046 dated December 20, 2000. The analytical results are provided in Table 2.

The VOC analysis detected benzene at 120 microgram per kilogram (µg/kg), 1,2,4-trimethylbenzene at 11,000 µg/kg, and 1,3,5-trimethylbenzene at 5,900 µg/kg in the north wall composite (N Wall Comp) sample at concentration above their respective NYSDEC RSCOs. The sidewall and bottom samples where the vent piping was removed (Sample Vent X Sidewall and Vent X Bottom) each detected benzene only at 110 µg/kg, above the RSCO of 60 µg/kg. No VOCs were detected above the NYSDEC RSCOs in the sample from the southwestern corner (Sample SE-RS) of the former UST excavation.

Analysis of PAHs detected benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene at concentrations above the NYSDEC RSCOs in the four soil samples. No other PAHs were detected above the RSCOs.

Spill #0204002: Stained Soil in Southwestern Portion of Site

As part of the current construction activities, subsurface obstructions (large pieces of concrete) were removed to allow underpinning for a new foundation to be performed. During the removal of obstructions on July 17, 2002, black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse. Two soil samples, West Side of Bldg N and West Side of Bldg S, were collected by Testwell from the stained area. These samples were submitted to Long Island Analytical Laboratories, Inc. (NYSDOH Certification ID #0220326) for analysis of the Target Compound List (TCL) VOCs and semi-volatile organic compounds (SVOCs). A site plan showing the test pit location is provided on Figure 3.

Continued . . .

Gannett Fleming conducted a review of historical Sanborn maps identified a bulk petroleum storage and distribution terminal occupied this portion of the site in 1951. However, no additional information is currently available as to the type of petroleum products stored at the former facility.

On July 31, 2002, subsequent foundation work by Gilbane Construction excavated a pit approximately 135 feet north of the stained area identified on July 17th. No staining or petroleum odors were reported in this excavation (see photos in Attachment A); however, no soil samples were collected.

On August 2, 2002, Gannett Fleming directed the excavation of six additional test pits (identified as TP-1 through TP-6) surrounding the location of stained soil observed on July 17th. Test pits were excavated at approximate 30-foot intervals until PID readings from the unsaturated soil remained at background levels. The excavated material was screened using a photo-ionization detector (PID).

The test pits were excavated to approximately nine feet below grade, approximately one foot into the water table. The water table was inspected for indications of free-floating product. Other than a sheen on the groundwater, no free-floating product was observed in TP-1 through TP-6. Groundwater samples were not collected as part of this investigation.

Three grab samples were collected from the test pits exhibiting background PID readings; TP-3, TP-5, and TP-6. The samples were handled in the same manner as the UST excavation samples discussed above and submitted to Ecotest Laboratories, Inc. for analysis of STARS Memo #1 Table 2 parameters. The locations of the test pits are provided on Figure 3. Test pit logs including PID readings collected from the test pits are provided in Attachment B.

The analytical data from both Testwell and Gannett Fleming samples did not detect VOCs above the NYSDEC RSCOs. Analysis of PAHs detected benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene at concentrations above the NYSDEC RSCOs in the five soil samples. Indeno(1,2,3-c,d)pyrene was detected at a concentration above the RSCO in one sample. No other SVOCs were detected above the RSCOs. Laboratory data is provided on Table 3. Laboratory data sheets are provided as Attachment C.

Conclusions

- Current end point sample data indicates concentrations of VOCs in the western and southern walls of the UST excavation are below the NYSDEC RSCOs.

Continued . . .

- Concentrations of benzene in the eastern side wall and benzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene in the northern side wall on the UST excavation remain above the RSCOs.
- Concentrations of SVOCs detected above the RSCOs were limited to the PAHs including benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene, site wide.
- PAHs were detected above the RSCOs in 9 of 12 samples surrounding the UST excavation.
- No concentrations of VOCs were detected above the RSCOs in soil samples collected from the southwestern portion of the site.
- PAHs were detected above the RSCOs in 4 of 5 samples collected in the southwestern portion of the site.

The occurrence of PAHs in the soils at the FedEx Ground facility appear to be ubiquitous within the urban fill material (wood, brick, glass, concrete, soil, etc.) observed in the excavations and presumably placed on the site when first developed in the 1950's. Concentrations of PAHs in soil samples were consistent through out each impacted area in both the Testwell and Gannett Fleming data. Soil samples collected from areas away from the observed impacted areas also detected PAHs. The distribution of PAHs and consistency in their concentrations is indicative of the general fill quality found at the site.

Recommendations

The following recommendations are provided for both the former UST area and the southwestern portion of the site.

Former UST Area

- No further actions are recommended for soils south and west of the former UST area. VOCs were not detected above the NYSDEC RSCOs, and concentrations of PAHs appear characteristic of the urban filled placed at the site (see below).
- Additional delineation of VOC impacts is recommended north and east of the former UST area. The VOC delineation will be conducted using a Geoprobe unit to collect 12 samples within a 25-foot grid extending from the former UST excavation (Figure 4). Soil samples will be screened vertically in two-foot intervals using a PID. Selected samples will be submitted for laboratory analysis of VOCs based on the PID readings. Because of obstructions, this work will be conducted after the current construction activities are complete (expected by October 2002).
- A groundwater investigation will be conducted over the entire site to assess local groundwater quality and to determine possible impacts from the petroleum releases on site and offsite. The groundwater investigation will also provide hydrogeologic

Continued . . .

- characterization of the site. Six shallow monitoring wells; two wells located hydraulically upgradient of the UST area and the southwestern portion of the site, respectively, and four wells downgradient of the impacted areas. The wells will be
- installed in compliance with NYSDEC guidance including 15 feet of well screen straddling the top of the water table to allow detection of free-floating product, if any. As with the soil investigation described above, this work is expected to be conducted in October 2002. Proposed monitoring well locations are provided on Figure 5.
- An investigation of general site-wide PAH concentrations will be conducted to confirm the assertion that these compounds are ubiquitous to the urban fill at the site. Soil samples will be collected during the installation of monitoring wells outlined above. Soil samples will be collected and submitted for laboratory analysis as described for the delineation of VOC impacts provided above.

The investigation activities will be provided to the NYSDEC in a supplemental site investigation report. A remedial action plan will be provided with the supplemental site investigation report, if appropriate.

Please feel free to call with any questions.

Very Truly Yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY A. ERNST
Senior Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc
cc: Jerry Swart
Robert Dengler
Mark Lucken

M:\CLERICAL\PROJECTS\39900\39936\jbw2996.doc

Table 1.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - UST EXCAVATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	ESE	ENE	NNE	NNW	WNW	WSW	SSW	SSE
SAMPLE DATE:		7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02
VOCs (ppb) - EPA Method 8021									
M&P-Xylenes[1]	1200	-	-	-	-	-	-	-	3,677
O-Xylene[1]	1200	-	-	-	-	-	6,470	-	17,852
1,3,5-Trimethylbenzene	3300	-	-	-	-	-	7,750	-	15,107
PAHs (ppb) - EPA Method 8270									
2,4-Dinitrophenol	200	2,281	-	-	-	-	-	-	380
Benzo(a)anthracene	224 or MDL	630	1,733	1,208	1,506	539	381	-	1,947
Chrysene	400	948	2,009	1,381	1.685	574	-	-	1,989
Benzo(b)fluoranthene	61 or MDL	598	2,027	1,365	1,587	513	245	-	1,384
Benzo(k)fluoranthene	610 or MDL	-	718	-	727	-	-	-	660
Benzo(a)pyrene	61 or MDL	461	1,575	1,116	1,216	437	270	-	1,140
Ideno(1,2,3-cd)pyrene	3200	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	14.3 or MDL	-	132	-	-	-	-	-	46

NOTES:

Samples collected by Testwell Laboratories, Inc. and analyzed by Long Island Analytical Laboratories Inc.

-	Analytical data did not exceed TAGM 4046 objectives
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
MDL	Method Detection Limit

TABLE 2.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA OF FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SE-RS	N Wall Comp	Vent X Side Wall	Vent X Bottom
SAMPLE DATE:		7/26/02	7/26/02	7/30/02	7/30/02
VOCs (ppb) - EPA Method 8021					
Benzene	60 or MDL	-	**120**	**110**	**110**
Toluene	1,500	-	30	-	-
Ethylbenzene	5,500	-	310	-	230
M&P-Xylenes[1]	1,200	-	1,100	220	600
O-Xylene[1]	1,200	29	190	-	140
Isopropylbenzene	2,300	-	92	430	260
n-propylbenzene	3,700	-	180	1,300	860
1,3,5-Trimethylbenzene	3,300	350	**5,900**	-	830
1,2,4-Trimethylbenzene	10,000	-	**11,000**	170	1,700
sec-Butylbenzene	10,000	-	80	850	410
p-Isopropyltoluene	10,000	20	240	110	200
n-Butylbenzene	10,000	-	-	1,300	-
tert-Butylbenzene	--	10	13	-	-
Methyl tert-butyl ether	120	-	-	-	-
PAHs (ppb) - EPA Method 8270					
Naphthalene	13,000	460	370	520	450
Acenaphthene	50,000	-	-	-	520
Fluorene	50,000	-	-	-	520
Phenanthrene	50,000	1,300	860	2,000	5,900
Anthracene	50,000	540	340	520	1,100
Fluoranthene	50,000	2,800	2,000	2,900	5,400
Pyrene	50,000	2,800	2,000	2,600	6,200
Benzo(a)anthracene	224 or MDL	**1,400**	**940**	**1,200**	**2,500**
Chrysene	400	**1,300**	**910**	**1,300**	**2,500**
Benzo(b)fluoranthene	61 or MDL	**1,500**	**940**	**960**	**2,000**
Benzo(k)fluoranthene	610 or MDL	**1,500**	**940**	**960**	**2,000**
Benzo(a)pyrene	61 or MDL	**1,500**	**1,000**	**1,100**	**2,400**
Ideno(1,2,3-cd)pyrene	3,200	410	330	600	780
Dibenzo(a,h)anthracene	14.3 or MDL	-	-	-	-
Benzo(ghi)perylene	50,000	400	330	630	780

NOTES:

Samples analyzed by Ecotest Laboratories Inc. of North Babylon, NY

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
--	No standard established
MDL	Method Detection Limit

TABLE 3.

SOIL SAMPLE ANALYTICAL RESULTS
SOUTHWESTERN PORTION OF FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

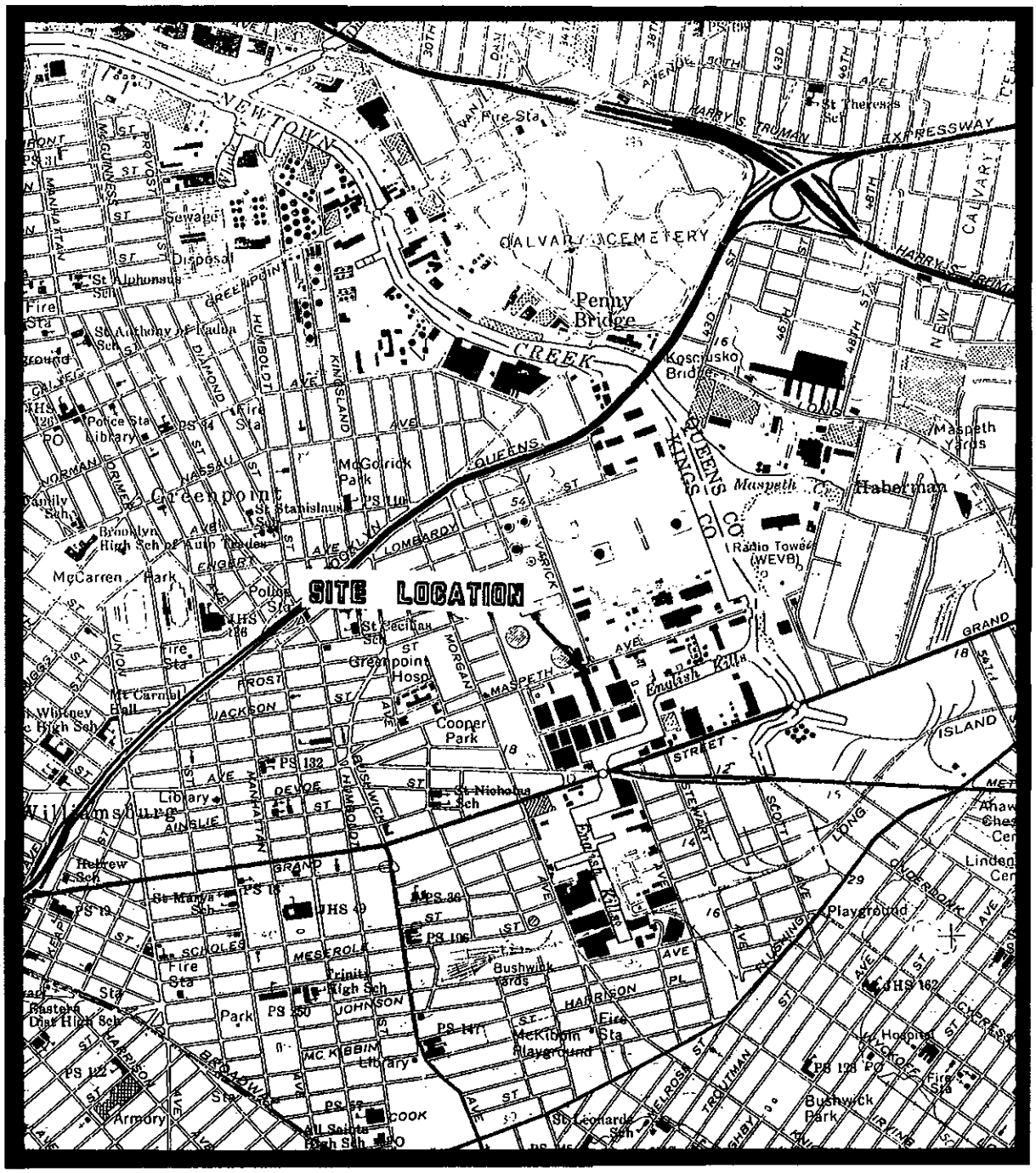
SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	*West Side of Bldg. N	*West Side of Bldg. S	SWTP-3	SWTP-5	SWTP-6
SAMPLE DATE:		7/17/02	7/17/02	8/2/02	8/2/02	8/2/02
VOCs (ppb) - EPA Method 8021						
Benzene	60 or MDL	-	-	-	4	-
Toluene	1,500	-	-	-	-	-
Ethylbenzene	5,500	-	-	-	-	-
M&P-Xylenes[1]	1,200	-	-	-	-	-
O-Xylene[1]	1,200	-	-	-	-	-
Isopropylbenzene	2,300	-	-	-	6	-
n-propylbenzene	3,700	-	6	-	4	-
1,3,5-Trimethylbenzene	3,300	-	5	-	-	-
1,2,4-Trimethylbenzene	10,000	-	23	-	5	2
sec-Butylbenzene	10,000	-	6	-	8	-
p-Isopropyltoluene	10,000	8	-	-	4	-
n-Butylbenzene	10,000	5	8	-	-	-
tert-Butylbenzene	--	-	-	-	5	-
Methyl tert-butyl ether	120	-	-	-	-	-
PAHs (ppb) - EPA Method 8270						
Naphthalene	13,000	942	1,914	1,400	1,700	1,500
Acenaphthene	50,000	1,885	3,083	670	1,200	710
Fluorene	50,000	2,399	4,496	1,600	1,400	780
Phenanthrene	50,000	11,895	23,383	6,300	8,600	6,700
Anthracene	50,000	3,309	6,100	1,700	2,200	1,800
Fluoranthene	50,000	14,105	24,831	7,100	11,000	8,000
Pyrene	50,000	15,036	23,487	6,400	11,000	8,300
Benzo(a)anthracene	224 or MDL	**6,124**	**9,894**	**3,400**	**6,300**	**4,000**
Chrysene	400	**7,200**	**11,004**	**3,400**	**6,300**	**4,000**
Benzo(b)fluoranthene	61 or MDL	**6,333**	**9,353**	**2,800**	**5,500**	**3,300**
Benzo(k)fluoranthene	610 or MDL	**2,570**	**4,417**	**2,800**	**5,500**	**3,300**
Benzo(a)pyrene	61 or MDL	**5,307**	**7,601**	**3,000**	**5,800**	**3,700**
Ideno(1,2,3-cd)pyrene	3,200	2,761	**4,452**	1,200	2,500	1,700
Dibenzo(a,h)anthracene	14.3 or MDL	**808**	**1,166**	**510**	**1,300**	**780**
Benzo(ghi)perylene	50,000	2,373	3,468	1,100	2,400	1,700

NOTES:

Samples analyzed by Ecotest Laboratories Inc. of North Babylon, NY

*	Samples analyzed by Long Island Analytical Laboratories Inc. of Holbrook, NY
-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
--	No standard established
MDL	Method Detection Limit

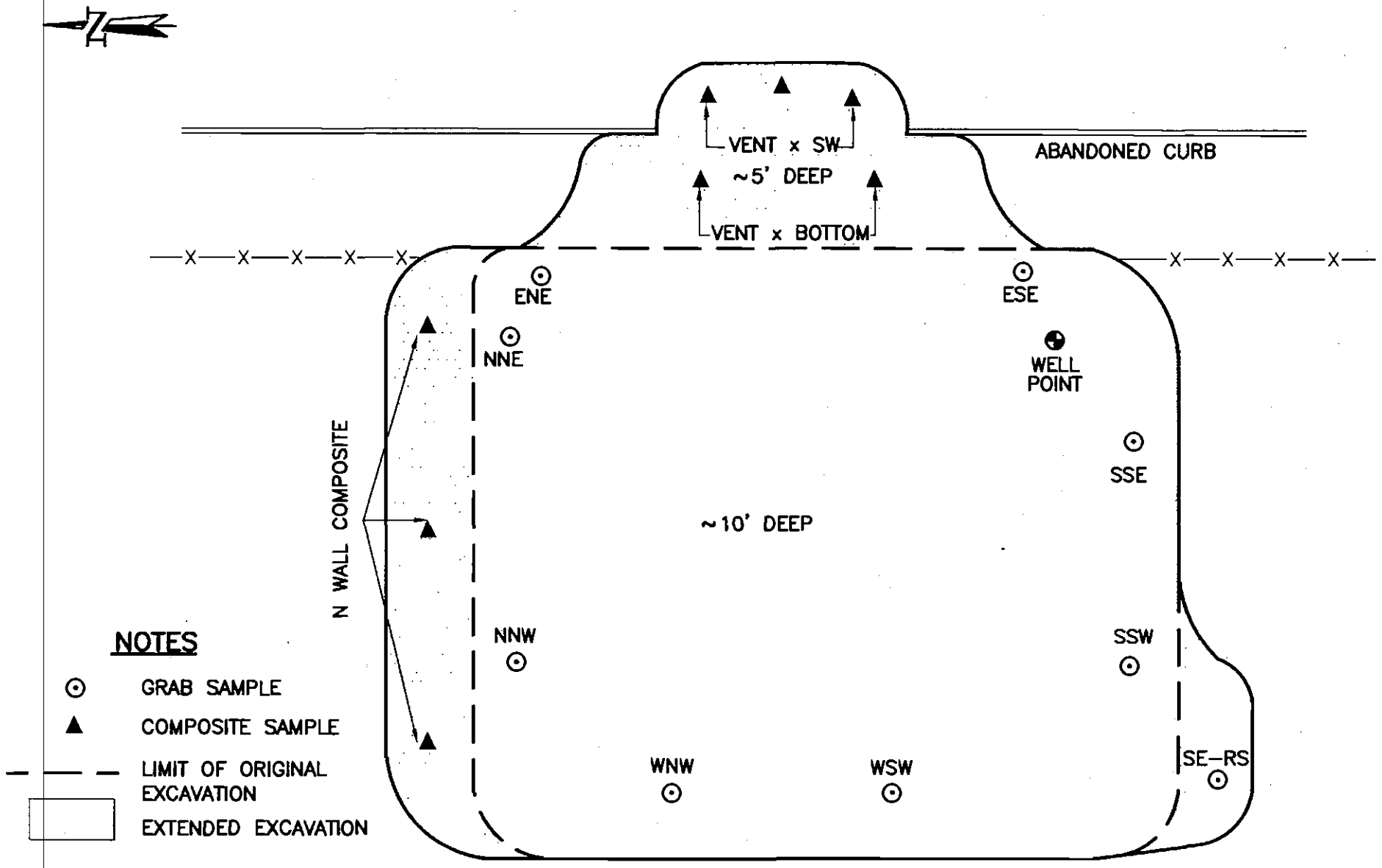
300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP



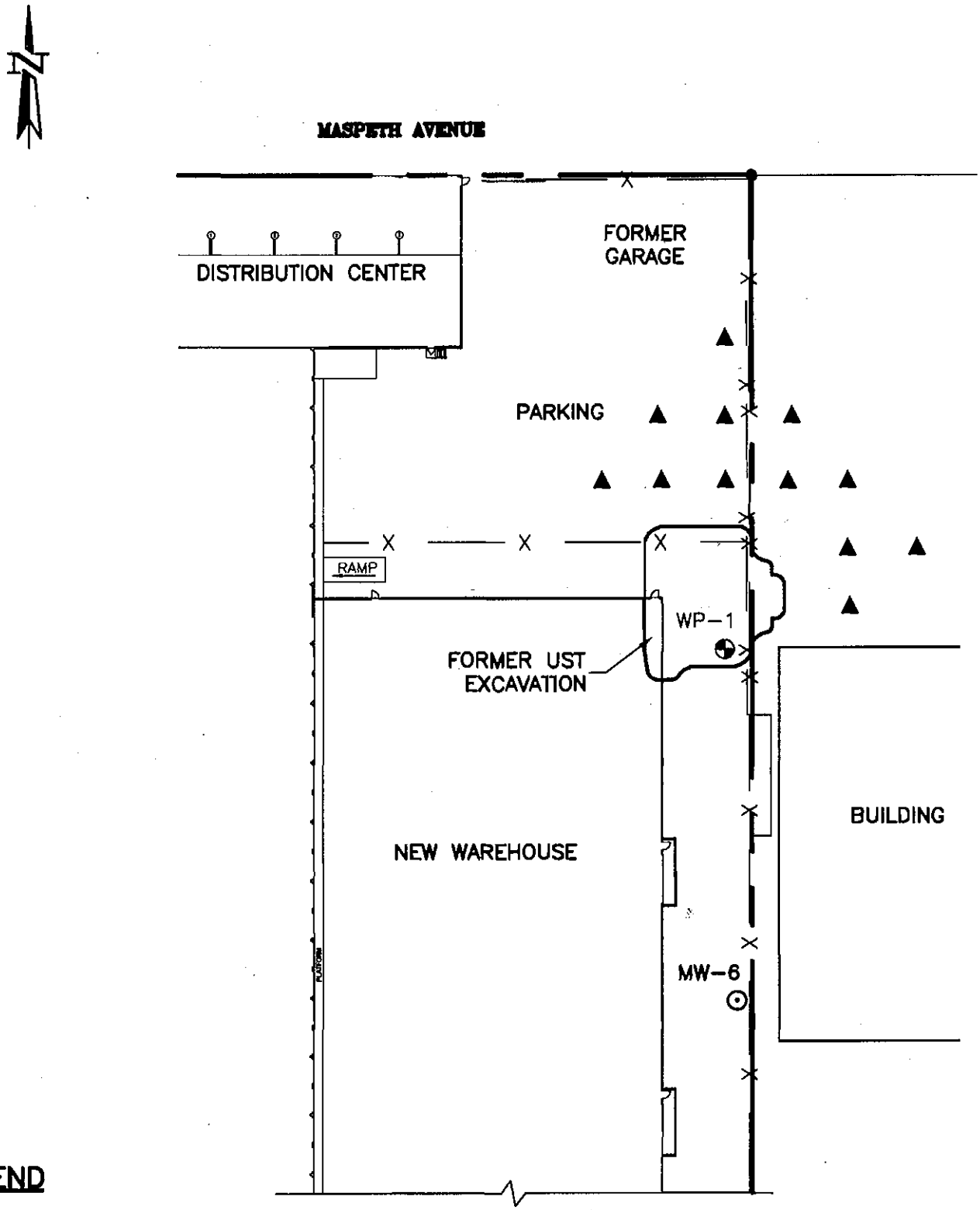
UST EXCAVATION SITE PLAN

FEDEX GROUND

300 MASPETH AVE., BROOKLYN, NEW YORK

39936B
081202

FIGURE 2



LEGEND

▲ BORING LOCATION

WP-1 ⊕ WELL POINT

0 60
Scale In Feet

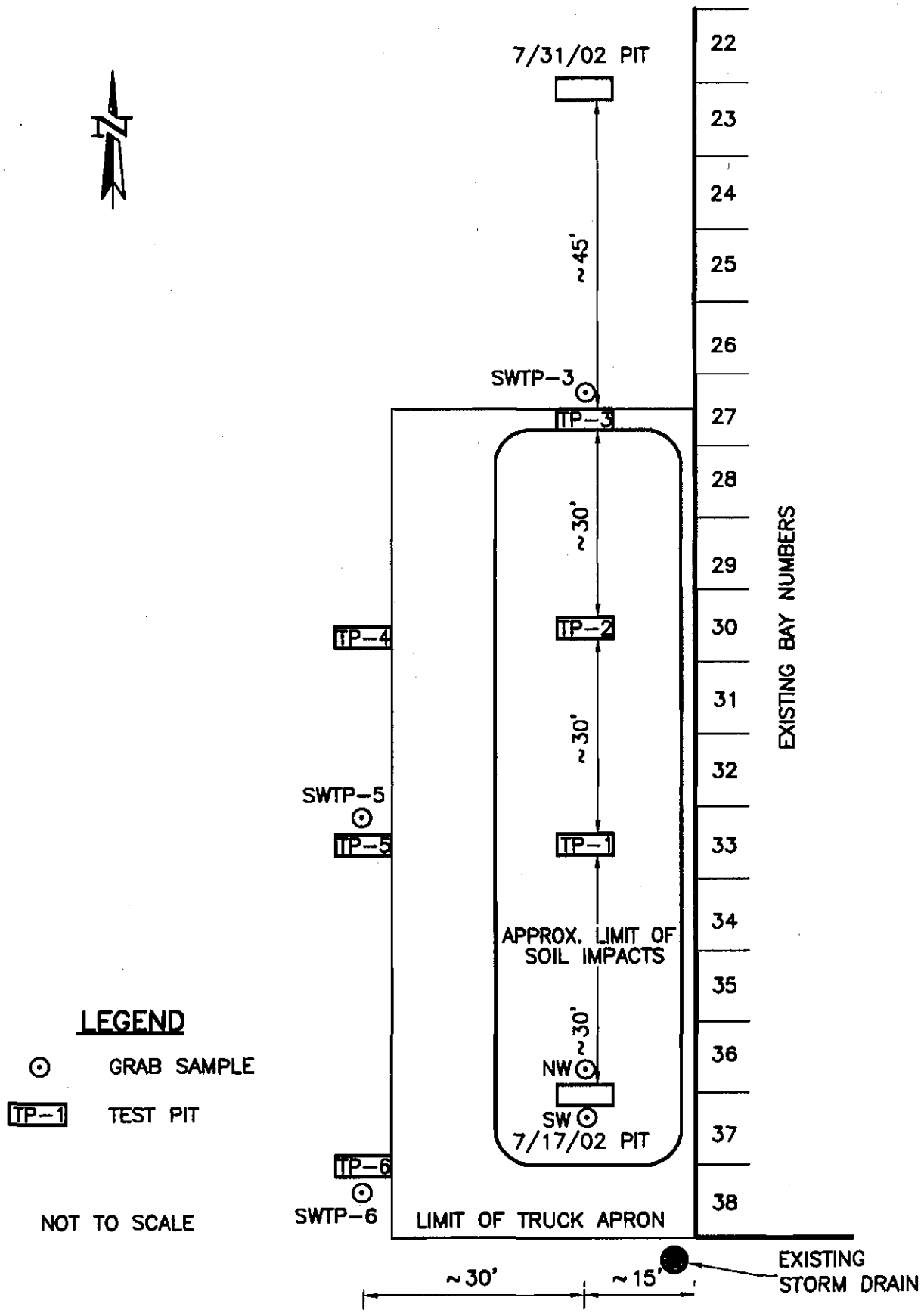
PROPOSED SOIL BORING LOCATIONS

FEDEX GROUND

300 MASPETH AVE, BROOKLYN, NEW YORK

SN39936E
082802

FIGURE 3

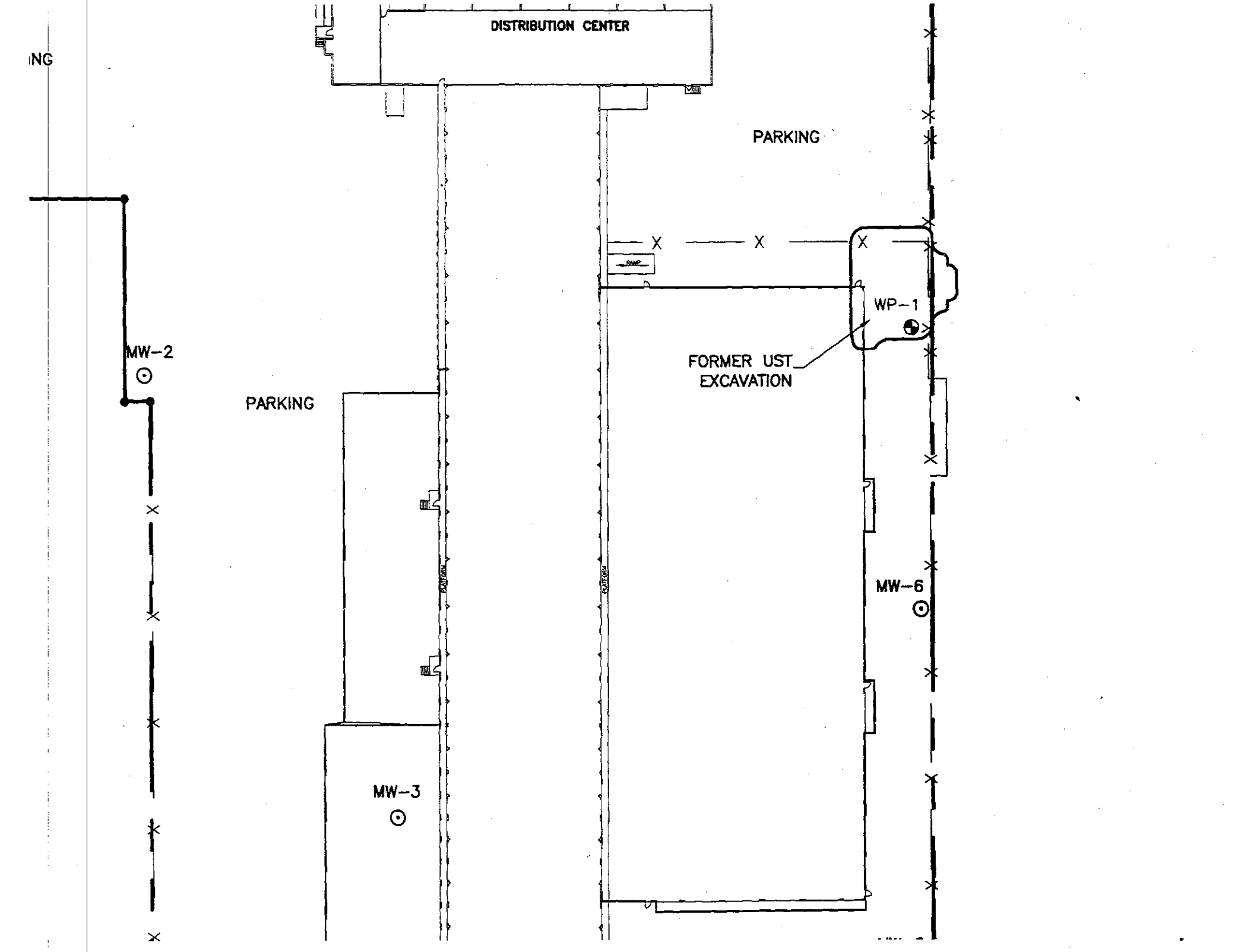


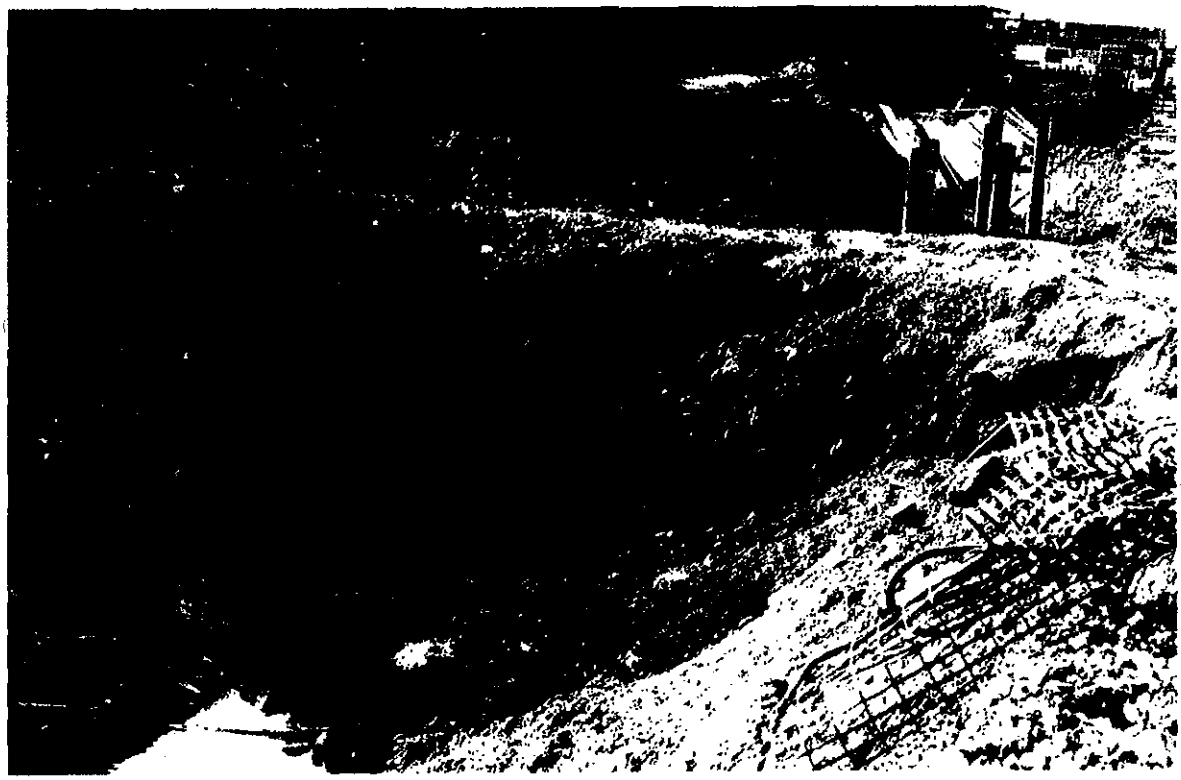
SCHEMATIC OF TEST PIT EXCAVATIONS

FEDEX GROUND

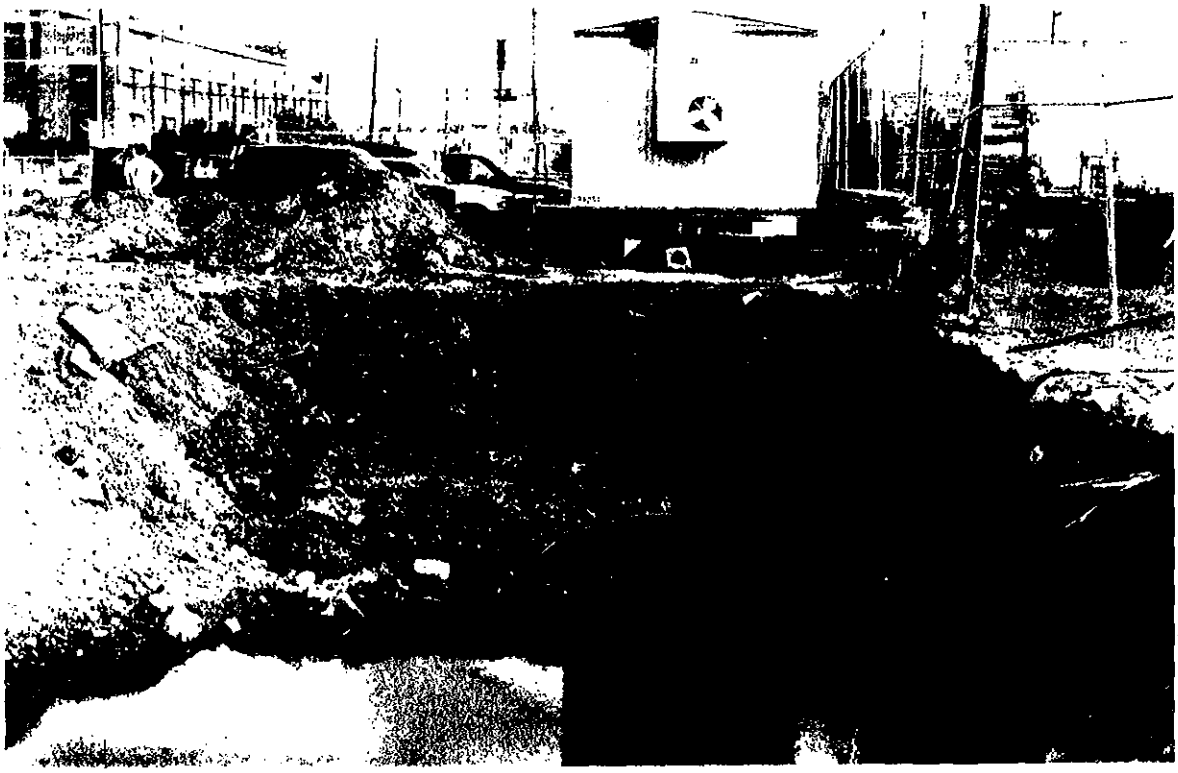
SOUTHWEST PORTION OF MASPETH AVE, BROOKLYN, NEW YORK

SN39936C
082702

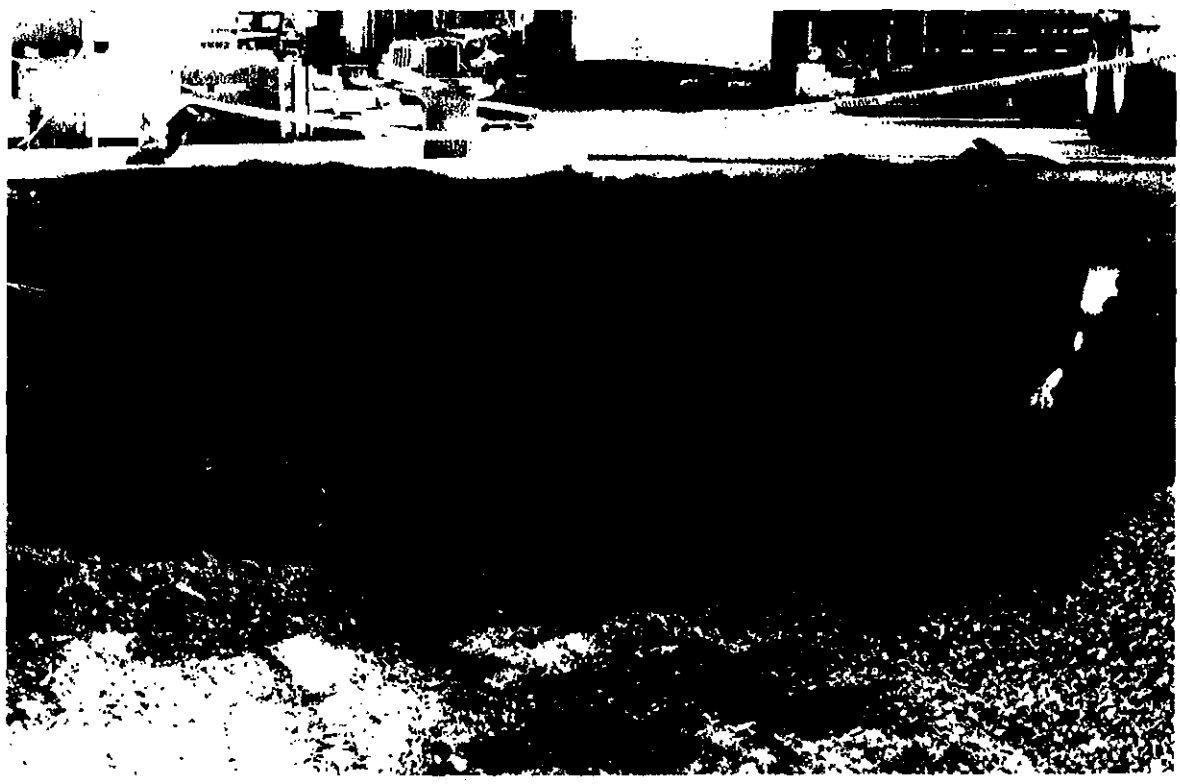

NG
DISTRIBUTION CENTER
PARKING
MW-2
PARKING
WP-1
FORMER UST
EXCAVATION
MW-6
MW-3



Southwest Corner of UST Excavation



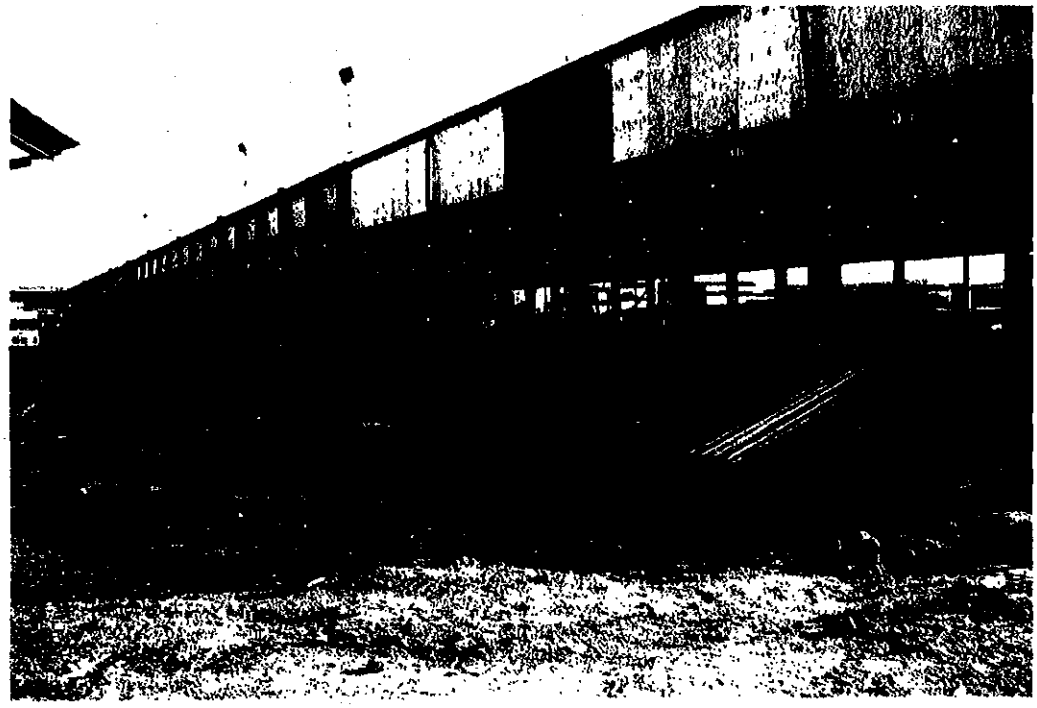
Northern Wall of UST Excavation



Vent Piping Area Excavation



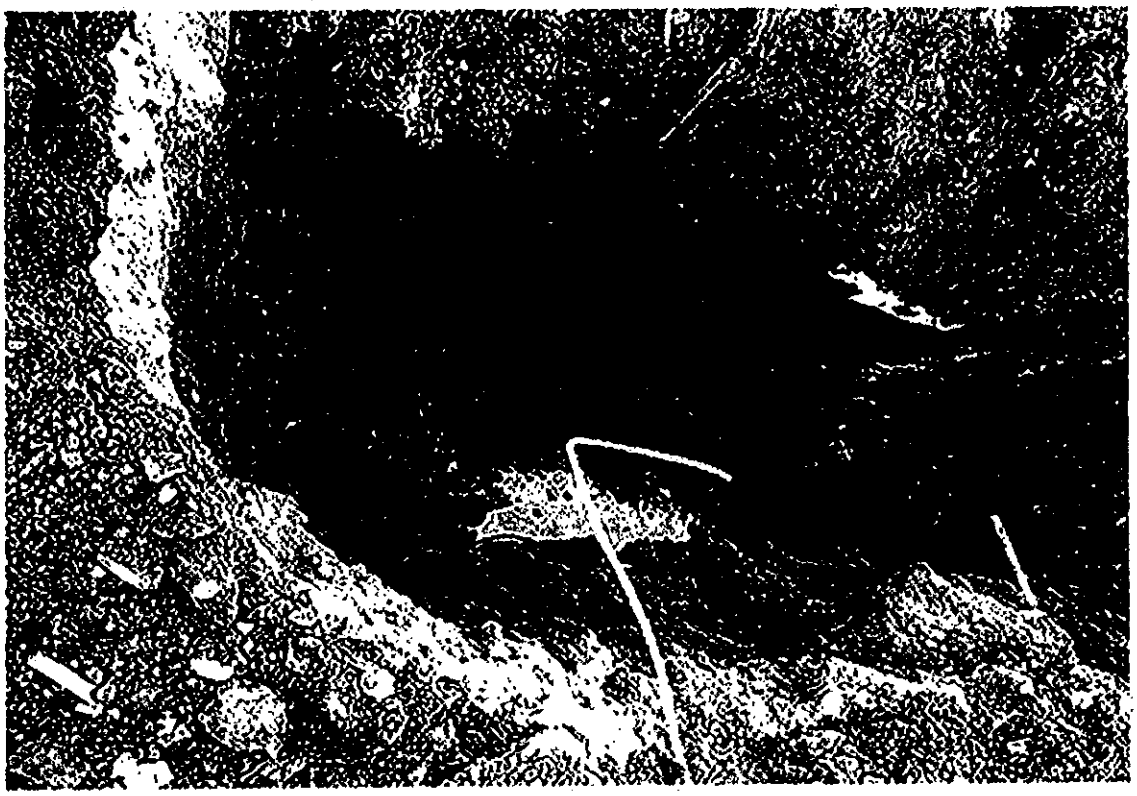
UST Excavation Backfill (well point in back left covered by traffic cone)



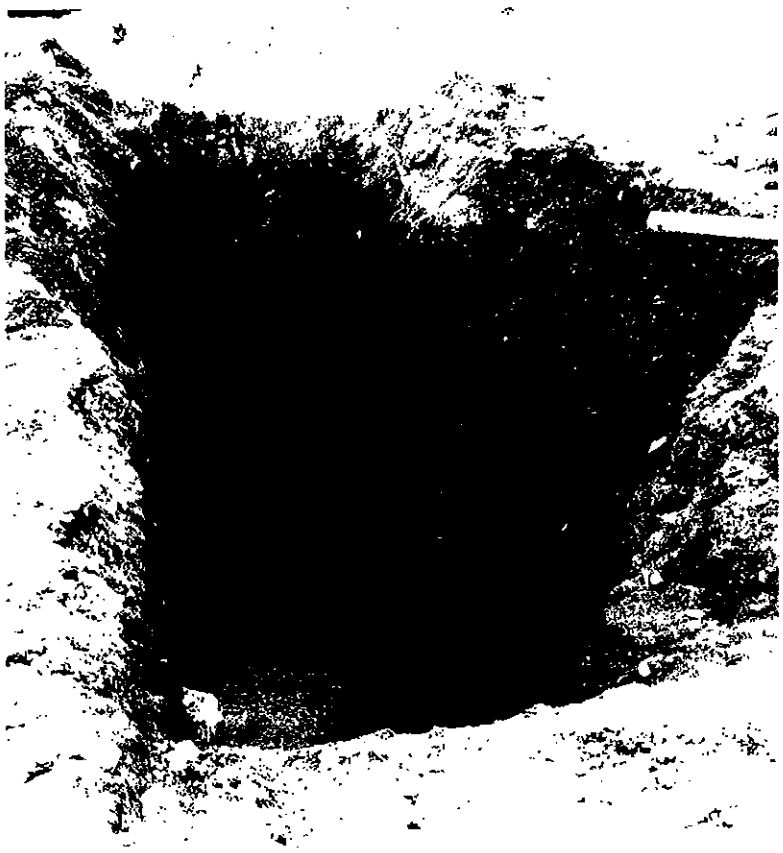
Area of Stained Soil in Southwestern Portion of the Site



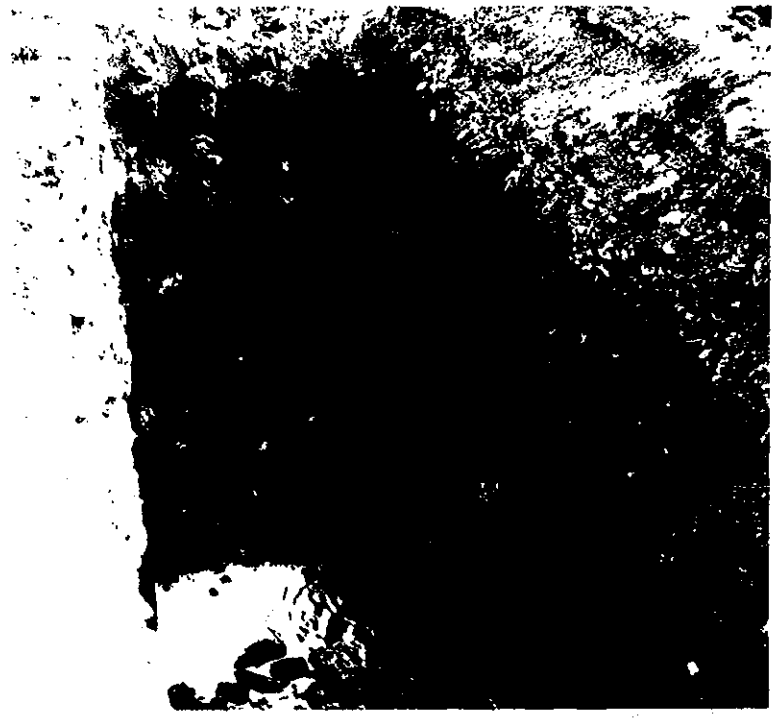
Lithology of Gilbane Excavation on July 31, 2002



Lithology in Test Pit 1



Lithology in Test Pit 2



Lithology of Test Pit 3



Lithology in Test Pit 4



Lithology in Test Pit 5



Lithology in Test Pit 6

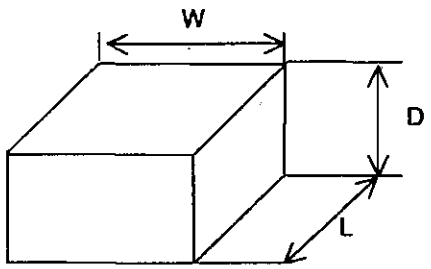
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-1
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 7.0 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5		H2O										
		at 8'			8'	-	-	-				Sheen on water table
	End											
10												
15												
20												

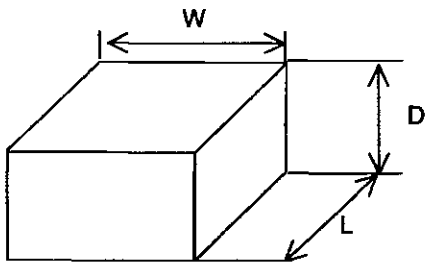
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-2
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 35 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood,											
5	concrete, etc.											
		H2O										Heavy sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

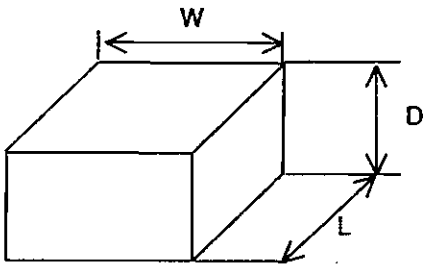
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-3
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~0.5 ppm	Sample collected at 5 feet deep.
	1-2' Asphalt with sub-base											
	>2' Black to dark brown, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-3		
5												
		H2O										Sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

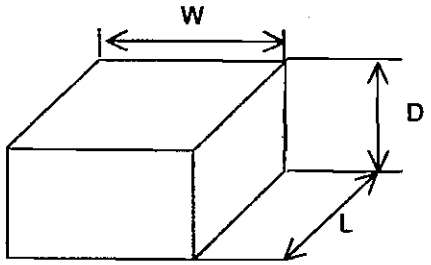
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-4
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	No sample collected.
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5		H2O										
		at 8'			8'	-	-	-			30 ppm	Sheen on water table
	End											
10												
15												
20												

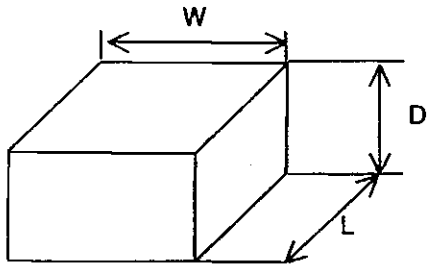
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-5
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-5		
5												
		H2O										
		at 8'			8'	-	-	-			~ 3 ppm	Sheen on water table
	End											
10												
15												
20												

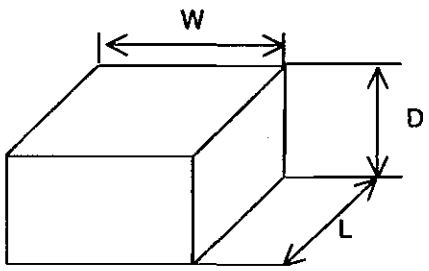
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-6
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	1.5 - 2.5' Brown coarse sand and gravel											
	>2.5' Black, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-6		
5												
		H2O										
		at 8'			8'	-	-	-			~ 15 ppm	Sheen on water table
	End											
10												
15												
20												

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Toluene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Ethyl Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
m + p Xylene	ug/Kg	< 11		08/03/02	10.869	EPA8021
o Xylene	ug/Kg	29		08/03/02	5.4347	EPA8021
Xylene	ug/Kg	36		08/03/02	16.304	EPA8021
Isopropylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
n-Propylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
135-Trimethylbenzene	ug/Kg	350		08/03/02	5.4347	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
sec-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
p-Isopropyltoluene	ug/Kg	20		08/03/02	5.4347	EPA8021
n-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Naphthalene(v)	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
tert-Butylbenzene	ug/Kg	9.8		08/03/02	5.4347	EPA8021
% Solids		92		07/29/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	460		07/30/02	326.08	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Phenanthrene	ug/Kg	1300		07/30/02	326.08	EPA8270
Anthracene	ug/Kg	540		07/30/02	326.08	EPA8270
Fluoranthene	ug/Kg	2800		07/30/02	326.08	EPA8270
Pyrene	ug/Kg	2800		07/30/02	326.08	EPA8270
Benzo(a)anthracene	ug/Kg	1400		07/30/02	326.08	EPA8270
Chrysene	ug/Kg	1300		07/30/02	326.08	EPA8270
Benzo(b)fluoranthene	ug/Kg	1500	*	07/30/02	326.08	EPA8270
Benzo(k)fluoranthene	ug/Kg	1500	*	07/30/02	326.08	EPA8270
Benzo(a)pyrene	ug/Kg	1500		07/30/02	326.08	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	410		07/30/02	326.08	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Benzo(ghi)perylene	ug/Kg	400		07/30/02	326.08	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: *Total = 3000 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Benzene	ug/Kg	120		08/03/02	5.5555	EPA8021
Toluene	ug/Kg	30		08/03/02	5.5555	EPA8021
Ethyl Benzene	ug/Kg	310		08/03/02	5.5555	EPA8021
m + p Xylene	ug/Kg	1100		08/03/02	11.111	EPA8021
o Xylene	ug/Kg	190		08/03/02	5.5555	EPA8021
Xylene	ug/Kg	1200		08/03/02	16.666	EPA8021
Isopropylbenzene	ug/Kg	92		08/03/02	5.5555	EPA8021
n-Propylbenzene	ug/Kg	180		08/03/02	5.5555	EPA8021
135-Trimethylbenzene	ug/Kg	5900		08/03/02	5.5555	EPA8021
124-Trimethylbenzene	ug/Kg	11000		08/03/02	5.5555	EPA8021
sec-Butylbenzene	ug/Kg	80		08/03/02	5.5555	EPA8021
p-Isopropyltoluene	ug/Kg	240		08/03/02	5.5555	EPA8021
n-Butylbenzene	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Naphthalene(v)	ug/Kg	190		08/03/02	5.5555	EPA8021
tert-Butylbenzene	ug/Kg	13		08/03/02	5.5555	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	370		07/30/02	333.33	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Phenanthrene	ug/Kg	860		07/30/02	333.33	EPA8270
Anthracene	ug/Kg	340		07/30/02	333.33	EPA8270
Fluoranthene	ug/Kg	2000		07/30/02	333.33	EPA8270
Pyrene	ug/Kg	2000		07/30/02	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	940		07/30/02	333.33	EPA8270
Chrysene	ug/Kg	910		07/30/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	940	*#	07/30/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	940	*#	07/30/02	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	1000	#	07/30/02	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	330	#	07/30/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330	#	07/30/02	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	330	#	07/30/02	333.33	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: *Total = 1880 ug/Kg, unable to separate isomers.
#Estimated due to low internal standard, *46%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	112.35	EPA8021
Benzene	ug/Kg	110		08/07/02	112.35	EPA8021
Toluene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Ethyl Benzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
m + p Xylene	ug/Kg	220		08/07/02	224.71	EPA8021
o Xylene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Xylene	ug/Kg	310		08/07/02	337.07	EPA8021
Isopropylbenzene	ug/Kg	430		08/07/02	112.35	EPA8021
n-Propylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
135-Trimethylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
124-Trimethylbenzene	ug/Kg	170		08/07/02	112.35	EPA8021
sec-Butylbenzene	ug/Kg	850		08/07/02	112.35	EPA8021
p-Isopropyltoluene	ug/Kg	110		08/07/02	112.35	EPA8021
n-Butylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
Naphthalene(v)	ug/Kg	900		08/07/02	112.35	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
% Solids		89		07/31/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	520		08/02/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Phenanthrene	ug/Kg	2000		08/02/02	337.07	EPA8270
Anthracene	ug/Kg	520		08/02/02	337.07	EPA8270
Fluoranthene	ug/Kg	2900		08/02/02	337.07	EPA8270
Pyrene	ug/Kg	2600		08/02/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	1200		08/02/02	337.07	EPA8270
Chrysene	ug/Kg	1300		08/02/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	960	#	08/02/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	960	#	08/02/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	1100		08/02/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	600		08/02/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	630		08/02/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 1920 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	114.94	EPA8021
Benzene	ug/Kg	110		08/07/02	114.94	EPA8021
Toluene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Ethyl Benzene	ug/Kg	230		08/07/02	114.94	EPA8021
m + p Xylene	ug/Kg	600		08/07/02	229.88	EPA8021
o Xylene	ug/Kg	140		08/07/02	114.94	EPA8021
Xylene	ug/Kg	740		08/07/02	344.82	EPA8021
Isopropylbenzene	ug/Kg	260		08/07/02	114.94	EPA8021
n-Propylbenzene	ug/Kg	860		08/07/02	114.94	EPA8021
135-Trimethylbenzene	ug/Kg	830		08/07/02	114.94	EPA8021
124-Trimethylbenzene	ug/Kg	1700		08/07/02	114.94	EPA8021
sec-Butylbenzene	ug/Kg	410		08/07/02	114.94	EPA8021
p-Isopropyltoluene	ug/Kg	200		08/07/02	114.94	EPA8021
n-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Naphthalene(v)	ug/Kg	1100		08/07/02	114.94	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
% Solids		87		07/31/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		08/02/02	344.82	EPA8270
Acenaphthene	ug/Kg	520		08/02/02	344.82	EPA8270
Fluorene	ug/Kg	520		08/02/02	344.82	EPA8270
Phenanthrene	ug/Kg	5900		08/02/02	344.82	EPA8270
Anthracene	ug/Kg	1100		08/02/02	344.82	EPA8270
Fluoranthene	ug/Kg	5400		08/02/02	344.82	EPA8270
Pyrene	ug/Kg	6200		08/02/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	2500		08/02/02	344.82	EPA8270
Chrysene	ug/Kg	2500		08/02/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	2000	#	08/02/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	2000	#	08/02/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	2400		08/02/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	780		08/02/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	780		08/02/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 4000 ug/Kg, unable to separate isomers.

DIRECTOR

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284

July 24, 2002

Barbara Donaghey
Testwell Laboratories, Inc.
47 Hudson Street
Ossining, New York 10562

[redacted]

Dear Ms. Donaghey:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on July 19, 2002. Long Island Analytical Laboratories, Inc. analyzed the samples on July 23, 2002 for the following:

CLIENT ID	ANALYSIS
West Side of Building N	EPA 8021, EPA 8270, Lead
West Side of Building S	EPA 8021, EPA 8270, Lead

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	21
NAPHTHALENE	91-20-3	6
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Vendl
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<400
PHENOL	108-95-1	<400
2-CHLOROPHENOL	95-57-8	<400
1,3-DICHLOROBENZENE	541-73-1	<400
1,4-DICHLOROBENZENE	106-46-7	<400
1,2-DICHLOROBENZENE	95-50-1	<400
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<400
2-METHYLPHENOL	95-48-7	<400
HEXACHLOROETHANE	67-72-1	<400
N-NITROSODI-n-PROPYL AMINE	621-64-7	<400
4-METHYLPHENOL	106-44-5	<400
NITROBENZENE	98-95-3	<400
ISOPHORONE	78-59-1	<400
2-NITROPHENOL	88-75-5	<400
2,4-DIMETHYLPHENOL	105-67-9	<400
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<400
2,4-DICHLOROPHENOL	102-83-2	<400
1,2,4-TRICHLOROBENZENE	120-82-1	<400
NAPHTHALENE	91-20-3	942
4-CHLOROANILINE	106-47-8	<400
HEXACHLOROBUTADIENE	87-68-3	<400
4-CHLORO-3-METHYLPHENOL	59-50-7	<400
2-METHYLNAPHTHALENE	91-57-6	1,099
HEXACHLOROCYCLOPENTADIENE	77-47-4	<400
2,4,6-TRICHLOROPHENOL	88-06-2	<400
2,4,5-TRICHLOROPHENOL	95-95-4	<400
2-CHLORONAPHTHALENE	91-58-7	<400
2-NITROANILINE	88-74-4	<400
ACENAPHTHYLENE	208-96-8	437
DIMETHYLPHTHALATE	131-11-3	<400
2,6-DINITROTOLUENE	606-20-2	<400
ACENAPHTHENE	83-32-9	1,885

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<400
2,4-DINITROPHENOL	51-28-5	<400
DIBENZOFURAN	132-64-9	1,118
2,4-DINTROTOLUENE	121-14-2	<400
4-NITROPHENOL	100-02-7	<400
FLUORENE	86-73-7	2,399
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<400
DIETHYLPHTHALATE	84-66-2	<400
4-NITROANILINE	100-01-6	<400
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<400
N-NITROSODIPHENYLAMINE	86-30-6	<400
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<400
HEXACHLOROBENZENE	118-74-1	<400
PENTACHLORPHENOL	87-86-5	<400
PHENANTHRENE	85-01-8	11,895
ANTHRACENE	120-12-7	3,309
DI-n-BUTYLPHTHALATE	84-74-2	<400
FLUORANTHENE	206-44-0	14,105
PYRENE	129-00-0	15,036
BUTYLBENZYLPHTHALATE	85-68-7	<400
3,3-DICHLOROBENZIDINE	91-94-1	<400
BENZO-a-ANTHRACENE	56-55-3	6,124
CHRYSENE	218-01-9	7,200
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<400
DI-n-OCTYLPHTHALATE	117-84-0	<400
BENZO-b-FLUOROANTHENE	205-99-2	6,333
BENZO-k- FLUOROANTHENE	207-08-9	2,570
BENZO-a-PYRENE	50-32-8	5,307
INDENO(1,2,3-c,d)PYRENE	193-39-5	2,761
DIBENZO-a,h-ANTHRACENE	53-70-3	908
BENZO-g,h,i-PERYLENE	191-24-2	2,373

MDL's are raised due to matrix interference.

Michael Verrelli

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	8
sec-BUTYLBENZENE	135-98-8	6
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	53
n-PROPYLBENZENE	103-65-1	6
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	23
1,3,5-TRIMETHYLBENZENE	108-67-8	6
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venditti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<800
PHENOL	108-95-1	<800
2-CHLOROPHENOL	95-57-8	<800
1,3-DICHLOROBENZENE	541-73-1	<800
1,4-DICHLOROBENZENE	106-46-7	<800
1,2-DICHLOROBENZENE	95-50-1	<800
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<800
2-METHYLPHENOL	95-48-7	<800
HEXACHLOROETHANE	67-72-1	<800
N-NITROSODI-n-PROPYL AMINE	621-64-7	<800
4-METHYLPHENOL	106-44-5	<800
NITROBENZENE	98-95-3	<800
ISOPHORONE	78-59-1	<800
2-NITROPHENOL	88-75-5	<800
2,4-DIMETHYLPHENOL	105-67-9	<800
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<800
2,4-DICHLOROPHENOL	102-83-2	<800
1,2,4-TRICHLOROBENZENE	120-82-1	<800
NAPHTHALENE	91-20-3	1,914
4-CHLOROANILINE	106-47-8	<800
HEXACHLOROBUTADIENE	87-68-3	<800
4-CHLORO-3-METHYLPHENOL	59-50-7	<800
2-METHYLNAPHTHALENE	91-57-6	1,742
HEXACHLOROCYCLOPENTADIENE	77-47-4	<800
2,4,6-TRICHLOROPHENOL	88-06-2	<800
2,4,5-TRICHLOROPHENOL	95-95-4	<800
2-CHLORONAPHTHALENE	91-58-7	<800
2-NITROANILINE	88-74-4	<800
ACENAPHTHYLENE	208-96-8	826
DIMETHYLPHTHALATE	131-11-3	<800
2,6-DINITROTOLUENE	606-20-2	<800
ACENAPHTHENE	83-32-9	3,083

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<800
2,4-DINITROPHENOL	51-28-5	<800
DIBENZOFURAN	132-64-9	2,476
2,4-DINTROTOLUENE	121-14-2	<800
4-NITROPHENOL	100-02-7	<800
FLUORENE	86-73-7	4,496
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<800
DIETHYLPHTHALATE	84-66-2	<800
4-NITROANILINE	100-01-6	<800
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<800
N-NITROSODIPHENYLAMINE	86-30-6	<800
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<800
HEXACHLOROBENZENE	118-74-1	<800
PENTACHLORPHENOL	87-86-5	<800
PHENANTHRENE	85-01-8	23,383
ANTHRACENE	120-12-7	6,100
Di-n-BUTYLPHTHALATE	84-74-2	<800
FLUORANTHENE	206-44-0	24,831
PYRENE	129-00-0	23,487
BUTYLBENZYLPHTHALATE	85-68-7	<800
3,3-DICHLOROBENZIDINE	91-94-1	<800
BENZO-a-ANTHRACENE	56-55-3	9,894
CHRYSENE	218-01-9	11,004
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<800
Di-n-OCTYLPHTHALATE	117-84-0	<800
BENZO-b-FLUORANTHENE	205-99-2	9,353
BENZO-k- FLUORANTHENE	207-08-9	4,417
BENZO-a-PYRENE	50-32-8	7,601
INDENO(1,2,3-c,d)PYRENE	193-39-5	4,452
DIBENZO-a,h-ANTHRACENE	53-70-3	1,166
BENZO-g,h,i-PERYLENE	191-24-2	3,468

MDL's are raised due to matrix interference.

Michael Venuti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/19/02	Laboratory ID: 0220326-0220327
Date extracted: 07/23/02	Matrix: Soil
Date analyzed: 07/23/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0220326	West Side of Building N	433
0220327	West Side of Building S	216

Performed by SW-846 Method 6010

Michael Venuti

Laboratory Director

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
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Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.01 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
m + p Xylene	ug/Kg	< 4.7		08/07/02	4.6511	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Xylene	ug/Kg	< 7.0		08/07/02	6.9767	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
124-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Naphthalene(v)	ug/Kg	48		08/07/02	2.3255	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
% Solids		86		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.01 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1400		08/09/02	348.83	EPA8270
Acenaphthene	ug/Kg	670		08/09/02	348.83	EPA8270
Fluorene	ug/Kg	1600		08/09/02	348.83	EPA8270
Phenanthrene	ug/Kg	6300		08/09/02	348.83	EPA8270
Anthracene	ug/Kg	1700		08/09/02	348.83	EPA8270
Fluoranthene	ug/Kg	7100		08/09/02	348.83	EPA8270
Pyrene	ug/Kg	6400		08/09/02	348.83	EPA8270
Benzo(a)anthracene	ug/Kg	3400		08/09/02	348.83	EPA8270
Chrysene	ug/Kg	3400		08/09/02	348.83	EPA8270
Benzo(b)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(k)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(a)pyrene	ug/Kg	3000		08/09/02	348.83	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1200		08/09/02	348.83	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	510		08/09/02	348.83	EPA8270
Benzo(ghi)perylene	ug/Kg	1100		08/09/02	348.83	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =5600 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.02 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Benzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
Toluene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Ethyl Benzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
m + p Xylene	ug/Kg	< 4.8		08/07/02	4.8192	EPA8021
o Xylene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Xylene	ug/Kg	< 7.2		08/07/02	7.2289	EPA8021
Isopropylbenzene	ug/Kg	6.0		08/07/02	2.4096	EPA8021
n-Propylbenzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
124-Trimethylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
sec-Butylbenzene	ug/Kg	8.4		08/07/02	2.4096	EPA8021
p-Isopropyltoluene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
n-Butylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Naphthalene(v)	ug/Kg	29		08/07/02	2.4096	EPA8021
tert-Butylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
% Solids		83		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.02 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1700		08/09/02	361.44	EPA8270
Acenaphthene	ug/Kg	1200		08/09/02	361.44	EPA8270
Fluorene	ug/Kg	1400		08/09/02	361.44	EPA8270
Phenanthrene	ug/Kg	8600		08/09/02	361.44	EPA8270
Anthracene	ug/Kg	2200		08/09/02	361.44	EPA8270
Fluoranthene	ug/Kg	11000		08/09/02	361.44	EPA8270
Pyrene	ug/Kg	11000		08/09/02	361.44	EPA8270
Benzo(a)anthracene	ug/Kg	6300		08/09/02	361.44	EPA8270
Chrysene	ug/Kg	6300		08/09/02	361.44	EPA8270
Benzo(b)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(k)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(a)pyrene	ug/Kg	5800		08/09/02	361.44	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2500		08/09/02	361.44	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	1300		08/09/02	361.44	EPA8270
Benzo(ghi)perylene	ug/Kg	2400		08/09/02	361.44	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =11000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27585 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.03 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
m + p Xylene	ug/Kg	< 4.6		08/07/02	4.5977	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Xylene	ug/Kg	< 6.9		08/07/02	6.8965	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
124-Trimethylbenzene	ug/Kg	2.3		08/07/02	2.2988	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Naphthalene(v)	ug/Kg	37		08/07/02	2.2988	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
% Solids		87		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.03 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1500		08/09/02	344.82	EPA8270
Acenaphthene	ug/Kg	710		08/09/02	344.82	EPA8270
Fluorene	ug/Kg	780		08/09/02	344.82	EPA8270
Phenanthrene	ug/Kg	6700		08/09/02	344.82	EPA8270
Anthracene	ug/Kg	1800		08/09/02	344.82	EPA8270
Fluoranthene	ug/Kg	8000		08/09/02	344.82	EPA8270
Pyrene	ug/Kg	8300		08/09/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	4000		08/09/02	344.82	EPA8270
Chrysene	ug/Kg	4000		08/09/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	3700		08/09/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		08/09/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	780		08/09/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	1700		08/09/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =6600 ug/Kg, unable to separate isomers.

DIRECTOR

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

October 23, 2003
File # 39936

Jeff Vought
New York State Department
of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804

Dear Mr. Vought:

On behalf of FedEx Ground, Gannett Fleming is submitting the letter report, which provides additional soil data collected at the FedEx Ground facility located at 300 Maspeth Avenue, Brooklyn, New York. A site location map is provided as Figure 1. This letter provides a summary of the additional soil investigation that was recommended in our August 28, 2002 correspondence for the delineation of volatile organic compounds (VOCs) north and east of the former underground storage tanks (USTs). A site plan depicting the location of the former USTs and delineation soil borings is provided on Figure 2.

This report also addresses the closure of a 500-gallon UST (believed to have contained waste oil) discovered during the construction work at the site, and an interim remedial measure to remove the heavily impacted soil detected during the delineation investigation.

Delineation Investigation of VOCs under Spill 0202804: UST Area

The additional delineation of VOC impacts detected in the northern and eastern limits of the UST excavation was performed on November 6, 2002. The VOC delineation investigation was conducted using a GeoProbe unit to collect twelve soil samples within a 25-foot grid extending from the former UST excavation (Figure 2). Soil samples were screened vertically in two-foot intervals using a PID. Copies of the soil boring logs are attached. The samples exhibiting the highest PID readings from each boring were submitted for laboratory analysis of VOCs. Analysis of polynuclear aromatic hydrocarbons (PAHs) were also performed by the laboratory to assess Gannett Fleming's opinion that elevated concentrations of PAHs are indicative of background levels resulting from the urban fill used in the region of Brooklyn.

No VOCs were detected in the samples that exceeded the NYSDEC Recommended Soil Cleanup Objectives in the delineation soil borings. Laboratory analytical results are provided in Table 1, and the laboratory reports are also attached.

Continued . . .

The PAH analysis detected dibenzo(a,h)anthracene at 2,200 micrograms per kilogram (ug/kg), indeno(1,2,3-cd)pyrene at 4,800 ug/kg, benzo(a)pyrene at 12,000 ug/kg, benzo(b)fluoranthene at 11,000 ug/kg, benzo(k)fluoranthene at 11,000 ug/kg, chrysene at 14,000 ug/kg, and benzo(a)anthracene at 16,000 ug/kg in sample SB-1 (0-2'), which is above the background concentrations observed at the site. An interim remedial measure was carried out to excavate and remove this affected soil for off-site disposal. The subsequent post excavation soil sample SB-1 (3-4') contained these PAHs at concentrations ranging from 640 ug/kg of dibenzo(a,h)anthracene to 3,300 ug/kg of benzo(a)anthracene. The concentrations of PAHs in the post-excavation sample are consistent with the observed background concentrations for the site. Analytical results for PAHs are provided in Table 1.

Waste Oil UST Closure

On January 8, 2003, a 500-gallon UST was discovered in the vicinity of the former garage. Historical registration information for the site indicates this tank was a waste oil tank that had not been found until that time. One vertical fill pipe from the tank was observed and capped. Brookside Environmental Services opened and cleaned the tank and removed the tank for disposal as scrap steel. The tank contained a few inches of oily water and sludge, which was drummed and disposed of off-site.

No VOCs were detected above the NYSDEC Recommended Soil Cleanup Objectives in end point soil samples TP-1 (Waste Oil Tank 4') and WOT 6', which were collected adjacent to the waste oil UST. The end point samples contained PAHs above the Recommended Soil Cleanup Objectives, but at concentrations consistent with background concentrations observed at the site. The end point soil sample data are provided in Table 1.

Conclusions

Based on the data and the work completed, the following conclusions have been established:

1. VOC concentrations exceeding the NYSDEC Recommended Soil Cleanup Objectives were not found beyond the extent of the former gasoline UST excavation.
2. Concentrations of PAHs were detected above the NYSDEC Recommended Soil Cleanup Objectives. The PAH concentrations found in the soils away from bulk petroleum storage areas further support the opinion that the PAH concentrations are consistent with background levels in the urban fill throughout this region of Brooklyn.
3. One sample location (SB-1) contained carcinogenic PAHs at concentrations not representative of background concentrations found on the site. An interim remedial measure was completed to remove the impacted soil. A supplemental post excavation sample SB-1 (3-4') detected carcinogenic PAHs concentrations consistent with the site background levels, indicating the impacted soils had been removed.

Continued . . .

4. The 500-gallon waste oil UST found in the vicinity of the former garage at the site was removed, cleaned, and the tank and its residual contents disposed of off-site. End point soil samples collected adjacent to the waste oil UST found no impacts present above the site background levels.

Based on the findings of the delineation investigation, the interim remedial measure completed, and the waste oil tank closure, no further action is necessary for the soil on the site.

The construction activities on the FedEx Ground facility are expected to be completed by the end of October 2003. The installation of monitoring wells for the groundwater investigation is anticipated to begin in early November 2003, as proposed in the August 28, 2002 report, and groundwater data should be available in late November 2003.

Please call Gregory Ernst at (516) 671-8440 with any questions regarding this matter.

Yours truly,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY ERNST
Senior Scientist

STEPHEN R. HIX
Director, Environmental Services

cc: Jerry Swart, FedEx Ground
Daniel LaPorte, Esq., Fed Ex Ground
Jerry Cereghino, J.C. Duggan, Inc./Bria Realty Corp.
Michael G. Stingone, Esq., Cole Schotz Meisel Forman and Leonard, P.A.

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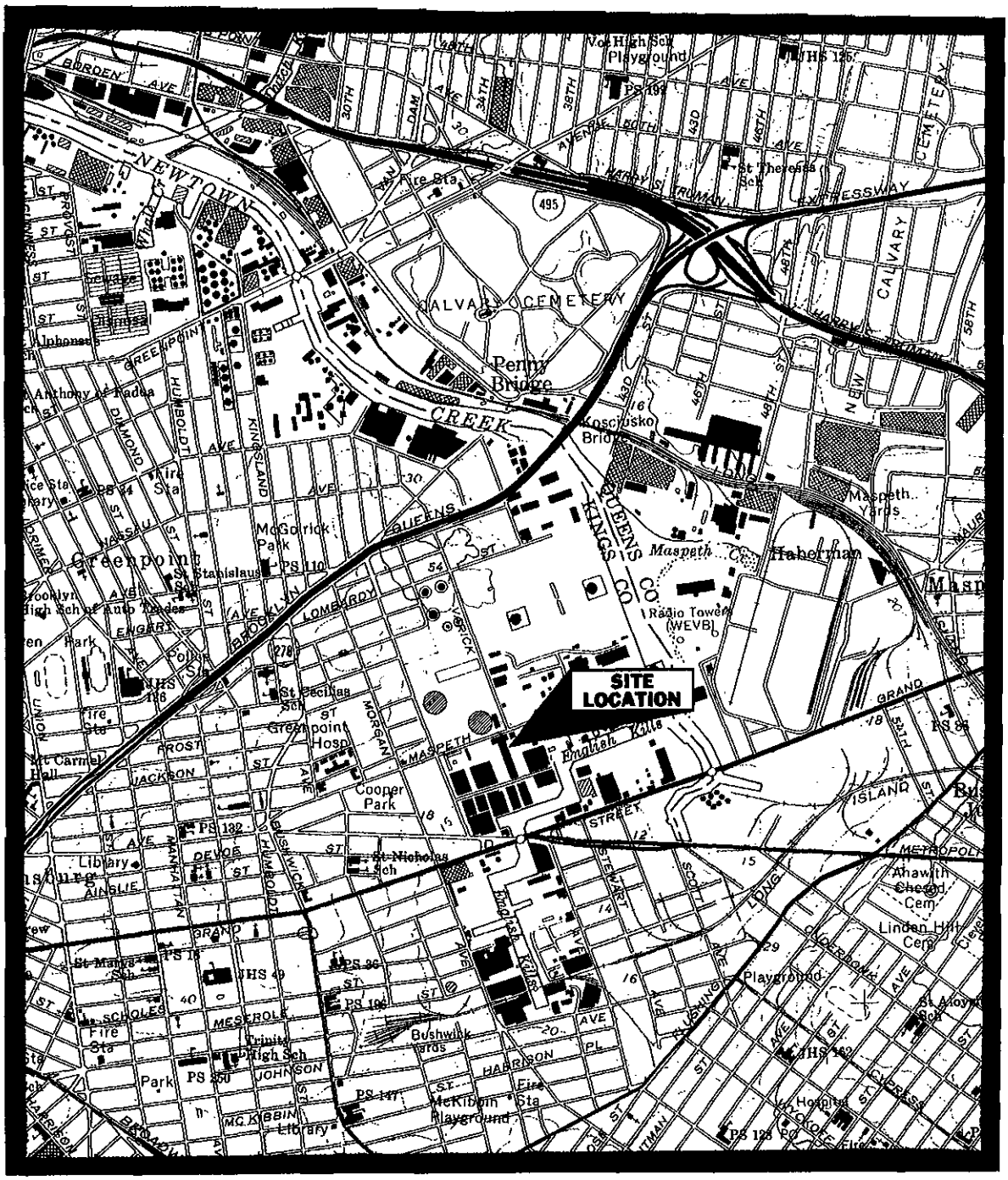
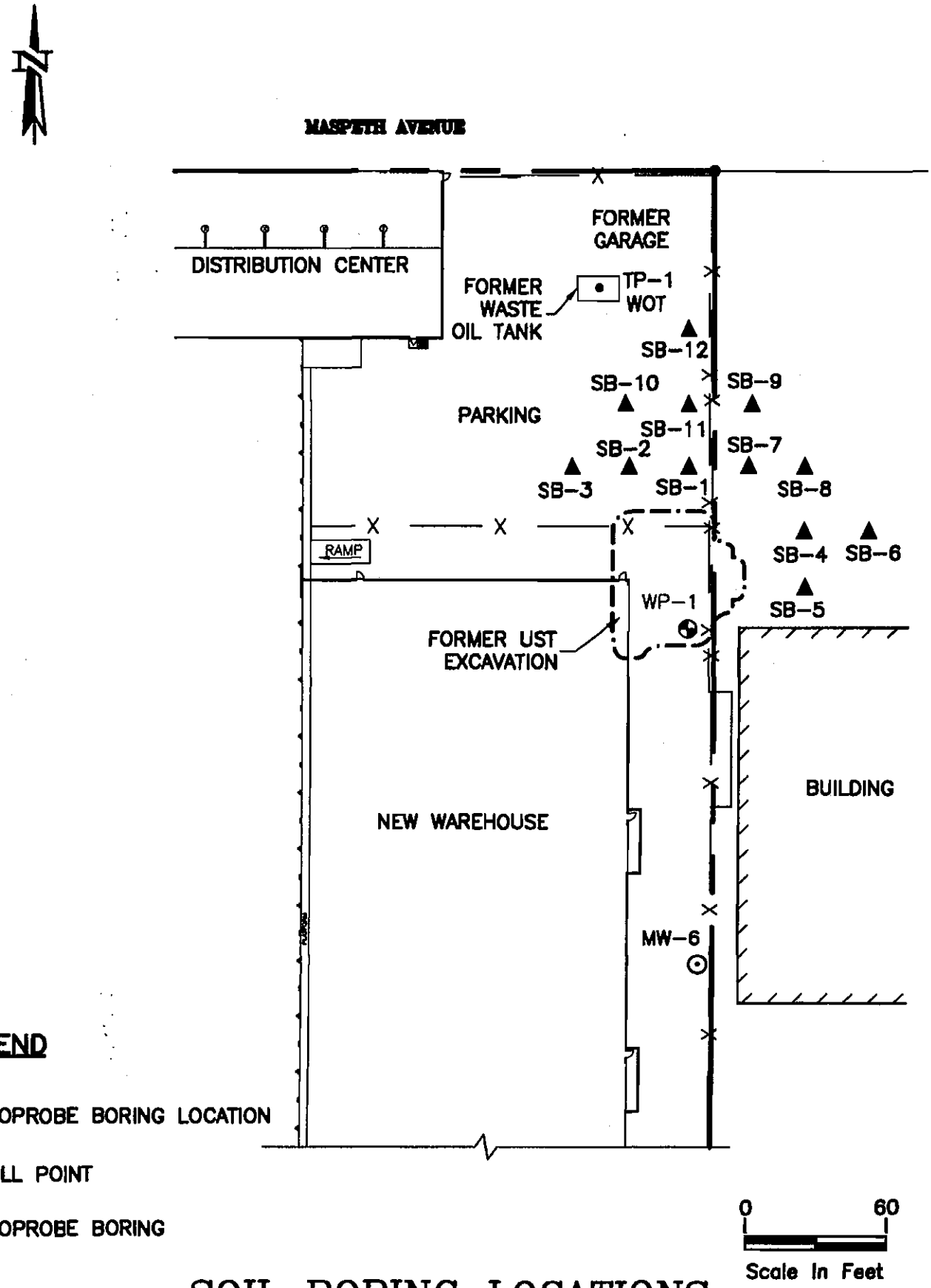
300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP



SOIL BORING LOCATIONS

FEDEX GROUND

300 MASPETH AVE, BROOKLYN, NEW YORK

SN39936-2
101303

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-1 (0-2')	SB-1 (3-4')	SB-2 (2-4')	SB-3 (2-4')	SB-4 (2-4')
SAMPLE DATE:		11/6/02	5/23/03	11/6/02	11/6/02	11/6/02
Benzene	60 or MDL	<5.6	--	<5.5	<5.5	<2.2
Toluene	1,500	<5.6	--	<5.5	<5.5	<2.2
Ethylbenzene	5,500	6	--	<5.5	<5.5	<2.2
M&P-Xylenes[1]	1,200	14	--	<11	<11	<4.5
O-Xylene[1]	1,200	8	--	<5.5	<5.5	<2.2
Isopropylbenzene	2,300	23	--	<5.5	<5.5	<2.2
n-propylbenzene	3,700	41	--	<5.5	<5.5	<2.2
1,3,5-Trimethylbenzene	3,300	<5.6	--	<5.5	<5.5	<2.2
1,2,4-Trimethylbenzene	10,000	21	--	<5.5	<5.5	<2.2
sec-Butylbenzene	10,000	43	--	<5.5	<5.5	<2.2
p-Isopropyltoluene	10,000	<5.6	--	<5.5	<5.5	<2.2
n-Butylbenzene	10,000	42	--	<5.5	<5.5	<2.2
Naphthalene	13,000	200	--	<5.5	<5.5	<2.2
tert-Butylbenzene	NA	13	--	<5.5	<5.5	<2.2
Methyl tert-butyl ether	120	<5.6	--	<5.5	<5.5	<2.2
Naphthalene	13,000	3,400	450	<330	<330	<340
Acenaphthene	50,000	2,400	1,500	<330	<330	<340
Fluorene	50,000	8,600	950	410	350	<340
Phenanthrene	50,000	43,000	6,500	2,300	2,700	600
Anthracene	50,000	10,000	2,600	460	730	<340
Fluoranthene	50,000	37,000	8,600	3,000	2,100	800
Pyrene	50,000	29,000	8,600	2,400	4,100	890
Benzo(a)anthracene	224 or MDL	**16,000**	**3,300**	**1,100**	**1,800**	**460**
Chrysene	400	**14,000**	**3,200**	**1,200**	**1,800**	**550**
Benzo(b)fluoranthene	61 or MDL	**11,000**	**2,700**	**990**	**930**	**480**
Benzo(k)fluoranthene	610 or MDL	**11,000**	**2,700**	**990**	**930**	480
Benzo(a)pyrene	61 or MDL	**12,000**	**3,100**	**950**	**1,500**	**460**
Ideno(1,2,3-cd)pyrene	3,200	**4,800**	1,400	620	570	<340
Dibenzo(a,h)anthracene	14.3 or MDL	**2,200**	**640**	<330	370	<340
Benzo(ghi)perylene	50,000	4,100	1,400	620	700	<340

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-5 (2-4')	SB-6 (2-4')	SB-7 (4-6')	SB-8 (4-6')	SB-9 (6-8')
SAMPLE DATE:		11/6/02	11/6/02	11/6/02	11/6/02	11/6/02
Benzene	60 or MDL	<5.7	<5.7	<5.7	<5.6	<5.9
Toluene	1,500	<5.7	<5.7	<5.7	<5.6	<5.9
Ethylbenzene	5,500	<5.7	<5.7	<5.7	<5.6	<5.9
M&P-Xylenes[1]	1,200	<11	<11	<11	<11	<12
O-Xylene[1]	1,200	<5.7	<5.7	<5.7	<5.6	<5.9
Isopropylbenzene	2,300	<5.7	<5.7	<5.7	<5.6	<5.9
n-propylbenzene	3,700	<5.7	<5.7	<5.7	<5.6	<5.9
1,3,5-Trimethylbenzene	3,300	<5.7	<5.7	<5.7	<5.6	<5.9
1,2,4-Trimethylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
sec-Butylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
p-Isopropyltoluene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
n-Butylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
Naphthalene	13,000	<5.7	<5.7	<5.7	<5.6	<5.9
tert-Butylbenzene	NA	<5.7	<5.7	<5.7	<5.6	<5.9
Methyl tert-butyl ether	120	<5.7	<5.7	<5.7	<5.6	<5.9
Naphthalene	13,000	<340	<340	<340	<340	<350
Acenaphthene	50,000	<340	<340	<340	<340	560
Fluorene	50,000	<340	<340	<340	<340	610
Phenanthrene	50,000	1,600	480	730	1,100	4,900
Anthracene	50,000	380	<340	<340	360	1,200
Fluoranthene	50,000	1,800	530	1,500	1,800	6,900
Pyrene	50,000	1,800	520	1,600	1,700	6,900
Benzo(a)anthracene	224 or MDL	**920**	<340	**720**	**900**	**2,900**
Chrysene	400	**900**	<340	**770**	**870**	**3,100**
Benzo(b)fluoranthene	61 or MDL	**800**	<340	**630**	730	**2,500**
Benzo(k)fluoranthene	610 or MDL	**800**	<340	**630**	**730**	**2,500**
Benzo(a)pyrene	61 or MDL	**980**	<340	**780**	**750**	**2,600**
Ideno(1,2,3-cd)pyrene	3,200	540	<340	470	380	1,100
Dibenzo(a,h)anthracene	14.3 or MDL	<340	<340	<340	<340	**560**
Benzo(ghi)perylene	50,000	620	<340	550	370	990

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-10 (4-6')	SB-11 (4-6')	SB-12 (6-8')	TP-1 (Waste Oil Tank) 4'	WOT 6'
SAMPLE DATE:		11/6/02	11/6/02	11/6/02	1/8/03	5/23/03
Benzene	60 or MDL	<6.1	<5.7	<5.9	<5.9	--
Toluene	1,500	<6.1	<5.7	<5.9	26	--
Ethylbenzene	5,500	<6.1	<5.7	<5.9	180	--
M&P-Xylenes[1]	1,200	<12	<11	<12	980	--
O-Xylene[1]	1,200	<6.1	<5.7	<5.9	420	--
Isopropylbenzene	2,300	<6.1	<5.7	<5.9	80	--
n-propylbenzene	3,700	<6.1	<5.7	<5.9	190	--
1,3,5-Trimethylbenzene	3,300	<6.1	<5.7	<5.9	350	--
1,2,4-Trimethylbenzene	10,000	<6.1	<5.7	<5.9	1,400	--
sec-Butylbenzene	10,000	<6.1	<5.7	<5.9	160	--
p-Isopropyltoluene	10,000	<6.1	<5.7	<5.9	140	--
n-Butylbenzene	10,000	<6.1	<5.7	<5.9	<5.9	--
Naphthalene	13,000	<6.1	<5.7	<5.9	390	--
tert-Butylbenzene	NA	<6.1	<5.7	<5.9	11	--
Methyl tert-butyl ether	120	<6.1	<5.7	<5.9	14	--
Naphthalene	13,000	500	<340	690	530	<340
Acenaphthene	50,000	<370	<340	<350	<350	<340
Fluorene	50,000	<370	<340	530	<350	<340
Phenanthrene	50,000	<370	<340	2,600	2,500	2,200
Anthracene	50,000	<370	<340	810	810	600
Fluoranthene	50,000	<370	<340	3,300	4,600	3,100
Pyrene	50,000	<370	<340	2,900	5,800	3,900
Benzo(a)anthracene	224 or MDL	<370	<340	**1,500**	**2,900**	**1,700**
Chrysene	400	<370	<340	**1,600**	**3,200**	**1,700**
Benzo(b)fluoranthene	61 or MDL	<370	<340	**1,400**	**2,600**	**1,200**
Benzo(k)fluoranthene	610 or MDL	<370	<340	**1,400**	**2,600**	**1,200**
Benzo(a)pyrene	61 or MDL	<370	<340	**1,300**	**2,900**	**1,500**
Ideno(1,2,3-cd)pyrene	3,200	<370	<340	860	1,400	700
Dibenzo(a,h)anthracene	14.3 or MDL	<370	<340	**420**	**620**	<340
Benzo(ghi)perylene	50,000	<370	<340	910	1,400	760

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 13		Sampled at 1' - 2' SB-1	1 - 4'	Slightly moist		Sandy silt: Large gravel, black staining.	Petroleum odor
2								
3								
4	~ 7			4' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 9		Sampled at 2' - 4' SB-2	1' - 4'	Slightly moist		Silt: small gravel, 3% sand, brick pieces, black staining	Petroleum odor
2								
3								
4	~ 3			4' - 6'	Moist		Same as above	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Sand: medium grain, brown, with medium gravel to Silt: with black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 33		Sampled at 2' - 4' SB-3	1' - 4'	Moist		Silt: small gravel, brick pieces, 3% sand, black staining	Petroleum odor
2								
3								
4	~ 6			4' - 6'	Very moist		Silt: very moist, medium gravel, black staining	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Silt: clayey, grey, samll gravel, black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~4		Sampled at 2' - 4' SB-4	1' - 4'	Slightly moist		Silt: with 50% sand, medium gravel, brownish grey to black staining and brick pieces	Methane odor
2								
3								
4	0			4' - 8'	Moist		Silt: small gravel, black staining	Methane odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-5	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1				0 - 1'			Asphlat	
2	~ 9		Sampled at 2' - 4' SB-5	1' - 4'	Slightly moist		Silt: small gravel, brick pieces	Petroleum odor
3								
4								
5	0			4' - 8'	Saturated		Same as above	
6								
7								
8								
9							**End of boring**	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-6	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 5		Sampled at 2' - 4' SB-6	1' - 4'	Slightly moist		Silt: small gravel , brick pieces, 3% sand	Petroleum odor
2								
3								
4	~ 2			4' - 8'	Moist		Same as above	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Client: FedEx Ground		Boring No.: SB-7	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: 3% sand, small gravel, brick pieces, brown with some staining	
2								
3								
4	0		Sampled at 4' - 6' SB-8	4' - 8'	Moist		Silt: brick pieces, small gravel, black staining	
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-8	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: small gravel, brick pieces, black staining	Petroleum odor
2								
3								
4	0		Sampled at 4' - 6' SB-8	4' - 8'	Slightly moist		Silt: small gravel, to coarse sand, organic debris	Slight petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-9	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1 - 4	0			1' - 4'	Slightly moist		Silt: with 15% sand, small gravel, dark staining, brick pieces	
4 - 6	0			4' - 6'	Slightly moist		Silt: with 50% sand, small gravel, dark staining, brick pieces	
6 - 8	~ 5		Sampled at 6' - 8 SB-9	6' - 8'	Saturated		Silt: with brick pieces, small gravel, dark staining	Slight petroleum odor
8							**End of boring**	

SOIL BORING LOG

Client: FedEx Ground	Boring No.: SB-10	Gannett Fleming, Inc.	
Project #: 39936.001	Sheet 1 of 1	480 Forest Avenue	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	Locust Valley, NY 11560	
Drilling Co: Associated Environmental Services		(516) 671-8440	
Method: Direct push (Geoprobe)	Location of boring (not to scale)		
Personnel: Anthony Vanatta			
Total Depth: 8' Depth to Water:			

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: brick pieces, dark staining	Petroleum odor
2								
3								
4	~13		Sampled at 4' - 6' SB-10	4' - 8'	Moist		Silt: medium gravel, brick pieces	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-11	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1				1' - 4'			Did not record due mixing with muddy fill that was pushed over the area that day	
2								
3								
4	~4		Sampled at 4' - 6' SB-11	4' - 6'	Moist		Silt: medium gravel, brick pieces,	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Client: FedEx Ground	Boring No.: SB-12	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 39936.001	Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	
Drilling Co: Associated Environmental Services	Location of boring (not to scale)	
Method: Direct push (Geoprobe)		
Personnel: Anthony Vanatta		
Total Depth: 8' Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1								
2								
3								
4								
5								
6								
7	~30			6' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor Sampled with excavator
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.01 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:0935

MATRIX:Soil SAMPLE: SB-1 (0'-2')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
enzene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
oluene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
thyl Benzene	ug/Kg	5.6		11/12/02	5.5555	EPA8021
+ p Xylene	ug/Kg	14		11/12/02	11.111	EPA8021
Xylene	ug/Kg	7.8		11/12/02	5.5555	EPA8021
ylene	ug/Kg	22		11/12/02	16.666	EPA8021
sopropylbenzene	ug/Kg	23		11/12/02	5.5555	EPA8021
-Propylbenzene	ug/Kg	41		11/12/02	5.5555	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
24-Trimethylbenzene	ug/Kg	21		11/12/02	5.5555	EPA8021
ec-Butylbenzene	ug/Kg	43		11/12/02	5.5555	EPA8021
-Isopropyltoluene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
-Butylbenzene	ug/Kg	42		11/12/02	5.5555	EPA8021
aphthalene(v)	ug/Kg	200		11/12/02	5.5555	EPA8021
ert-Butylbenzene	ug/Kg	13		11/12/02	5.5555	EPA8021
Solids		90		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.01 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:0935

MATRIX:Soil SAMPLE: SB-1 (0'-2')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	3400		11/19/02	333.33	EPA8270
Acenaphthene	ug/Kg	2400		11/19/02	333.33	EPA8270
Fluorene	ug/Kg	8600		11/19/02	333.33	EPA8270
Phenanthrene	ug/Kg	43000		11/19/02	333.33	EPA8270
Anthracene	ug/Kg	10000		11/19/02	333.33	EPA8270
Fluoranthene	ug/Kg	37000		11/19/02	333.33	EPA8270
Pyrene	ug/Kg	29000		11/19/02	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	16000		11/19/02	333.33	EPA8270
Chrysene	ug/Kg	14000		11/19/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	11000	#	11/19/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	11000	#	11/19/02	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	12000		11/19/02	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	4800		11/19/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	2200		11/19/02	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	4100		11/19/02	333.33	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 22000 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.232577.01 06/02/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, Brooklyn, #39936.008
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:05/23/03 RECEIVED:05/28/03
TIME COL'D:1300

MATRIX:Soil SAMPLE: SB-1 3'-4'

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		05/29/03	384.61	EPA8270
Acenaphthene	ug/Kg	1500		05/29/03	384.61	EPA8270
Fluorene	ug/Kg	950		05/29/03	384.61	EPA8270
Phenanthrene	ug/Kg	6500		05/29/03	384.61	EPA8270
Anthracene	ug/Kg	2600		05/29/03	384.61	EPA8270
Fluoranthene	ug/Kg	8600		05/29/03	384.61	EPA8270
Pyrene	ug/Kg	8600		05/29/03	384.61	EPA8270
Benzo(a)anthracene	ug/Kg	3300		05/29/03	384.61	EPA8270
Chrysene	ug/Kg	3200		05/29/03	384.61	EPA8270
Benzo(b)fluoranthene	ug/Kg	2700	#	05/29/03	384.61	EPA8270
Benzo(k)fluoranthene	ug/Kg	2700	#	05/29/03	384.61	EPA8270
Benzo(a)pyrene	ug/Kg	3100		05/29/03	384.61	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1400		05/29/03	384.61	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	640		05/29/03	384.61	EPA8270
Benzo(ghi)perylene	ug/Kg	1400		05/29/03	384.61	EPA8270
% Solids		78		05/29/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 5400 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.02 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1000

MATRIX:Soil SAMPLE: SB-2 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
enzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
oluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
thyl Benzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	10.989	EPA8021
Xylene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ylene	ug/Kg	< 16		11/12/02	16.483	EPA8021
sopropylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Propylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ec-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Isopropyltoluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
aphthalene(v)	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ert-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Solids		91		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.02 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1000

MATRIX:Soil SAMPLE: SB-2 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/Kg	< 330		11/19/02	329.67	EPA8270
cenaphthene	ug/Kg	< 330		11/19/02	329.67	EPA8270
luorene	ug/Kg	410		11/19/02	329.67	EPA8270
henanthrene	ug/Kg	2300		11/19/02	329.67	EPA8270
nthracene	ug/Kg	460		11/19/02	329.67	EPA8270
luoranthene	ug/Kg	3000		11/19/02	329.67	EPA8270
yrene	ug/Kg	2400		11/19/02	329.67	EPA8270
enzo(a)anthracene	ug/Kg	1100		11/19/02	329.67	EPA8270
hrysene	ug/Kg	1200		11/19/02	329.67	EPA8270
enzo(b)fluoranthene	ug/Kg	990	#	11/19/02	329.67	EPA8270
enzo(k)fluoranthene	ug/Kg	990	#	11/19/02	329.67	EPA8270
enzo(a)pyrene	ug/Kg	950		11/19/02	329.67	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	620		11/19/02	329.67	EPA8270
ibenzo(a,h)anthracene	ug/Kg	< 330		11/19/02	329.67	EPA8270
enzo(ghi)perylene	ug/Kg	620		11/19/02	329.67	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1980 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.03 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1035

MATRIX:Soil SAMPLE: SB-3 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
enzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
oluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
thyl Benzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	10.989	EPA8021
Xylene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ylene	ug/Kg	< 16		11/12/02	16.483	EPA8021
sopropylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Propylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ec-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Isopropyltoluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
aphthalene(v)	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ert-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Solids		91		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.03 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1035

MATRIX:Soil SAMPLE: SB-3 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 330		11/19/02	329.67	EPA8270
Acenaphthene	ug/Kg	< 330		11/19/02	329.67	EPA8270
Fluorene	ug/Kg	350		11/19/02	329.67	EPA8270
Phenanthrene	ug/Kg	2700		11/19/02	329.67	EPA8270
Anthracene	ug/Kg	730		11/19/02	329.67	EPA8270
Fluoranthene	ug/Kg	2100		11/19/02	329.67	EPA8270
Pyrene	ug/Kg	4100		11/19/02	329.67	EPA8270
Benzo(a)anthracene	ug/Kg	1800		11/19/02	329.67	EPA8270
Chrysene	ug/Kg	1800		11/19/02	329.67	EPA8270
Benzo(b)fluoranthene	ug/Kg	930	#	11/19/02	329.67	EPA8270
Benzo(k)fluoranthene	ug/Kg	930	#	11/19/02	329.67	EPA8270
Benzo(a)pyrene	ug/Kg	1500		11/19/02	329.67	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	570		11/19/02	329.67	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	370		11/19/02	329.67	EPA8270
Benzo(ghi)perylene	ug/Kg	700		11/19/02	329.67	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1860 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.04 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1125
MATRIX:Soil SAMPLE: SB-4 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
enzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
oluene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
thyl Benzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
+ p Xylene	ug/Kg	< 4.5		11/08/02	4.4943	EPA8021
Xylene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
ylene	ug/Kg	< 6.7		11/08/02	6.7415	EPA8021
sopropylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
-Propylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
35-Trimethylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
24-Trimethylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
ec-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
-Isopropyltoluene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
aphthalene(v)	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
ert-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
Solids		89		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.04 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1125

MATRIX:Soil SAMPLE: SB-4 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Phenanthrene	ug/Kg	600		11/19/02	337.07	EPA8270
Anthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Fluoranthene	ug/Kg	800		11/19/02	337.07	EPA8270
Pyrene	ug/Kg	890		11/19/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	460		11/19/02	337.07	EPA8270
Chrysene	ug/Kg	550		11/19/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	480	#	11/19/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	480	#	11/19/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	460		11/19/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	< 340		11/19/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 960 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.05 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1110

MATRIX:Soil SAMPLE: SB-5 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
oluene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
thyl Benzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.494	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
ylene	ug/Kg	< 17		11/12/02	17.241	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
Solids		87		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.05 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1110
MATRIX:Soil SAMPLE: SB-5 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	344.82	EPA8270
Acenaphthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Phenanthrene	ug/Kg	1600		11/19/02	344.82	EPA8270
Anthracene	ug/Kg	380		11/19/02	344.82	EPA8270
Fluoranthene	ug/Kg	1800		11/19/02	344.82	EPA8270
Pyrene	ug/Kg	1800		11/19/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	920		11/19/02	344.82	EPA8270
Chrysene	ug/Kg	900		11/19/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	800	#	11/19/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	800	#	11/19/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	980		11/19/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	540		11/19/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	620		11/19/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1600 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.06 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1145
MATRIX:Soil SAMPLE: SB-6 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
oluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
thyl Benzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.363	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ylene	ug/Kg	< 17		11/12/02	17.045	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Solids		88		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.06 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1145

MATRIX:Soil SAMPLE: SB-6 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	340.90	EPA8270
Acenaphthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Phenanthrene	ug/Kg	480		11/19/02	340.90	EPA8270
Anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Fluoranthene	ug/Kg	530		11/19/02	340.90	EPA8270
Pyrene	ug/Kg	520		11/19/02	340.90	EPA8270
Benzo(a)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Chrysene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(b)fluoranthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(k)fluoranthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(a)pyrene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(ghi)perylene	ug/Kg	< 340		11/19/02	340.90	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.07 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1210

MATRIX:Soil SAMPLE: SB-7 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
oluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
thyl Benzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.363	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ylene	ug/Kg	< 17		11/12/02	17.045	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Solids		88		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.07 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1210

MATRIX:Soil SAMPLE: SB-7 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/Kg	< 340		11/19/02	340.90	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
luorene	ug/Kg	< 340		11/19/02	340.90	EPA8270
henanthrene	ug/Kg	730		11/19/02	340.90	EPA8270
nthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
luoranthene	ug/Kg	1500		11/19/02	340.90	EPA8270
yrene	ug/Kg	1600		11/19/02	340.90	EPA8270
enzo(a)anthracene	ug/Kg	720		11/19/02	340.90	EPA8270
hrysene	ug/Kg	770		11/19/02	340.90	EPA8270
enzo(b)fluoranthene	ug/Kg	630	#	11/19/02	340.90	EPA8270
enzo(k)fluoranthene	ug/Kg	630	#	11/19/02	340.90	EPA8270
enzo(a)pyrene	ug/Kg	780		11/19/02	340.90	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	470		11/19/02	340.90	EPA8270
ibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
enzo(ghi)perylene	ug/Kg	550		11/19/02	340.90	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1260 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.08 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1230

MATRIX:Soil SAMPLE: SB-8 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
enzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
oluene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
thyl Benzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
+ p Xylene	ug/Kg	< 11		11/13/02	11.235	EPA8021
Xylene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
ylene	ug/Kg	< 17		11/13/02	16.853	EPA8021
sopropylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
-Propylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
ec-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
-Isopropyltoluene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
aphthalene(v)	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
ert-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
Solids		89		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.08 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1230

MATRIX:Soil SAMPLE: SB-8 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Phenanthrene	ug/Kg	1100		11/19/02	337.07	EPA8270
Anthracene	ug/Kg	360		11/19/02	337.07	EPA8270
Fluoranthene	ug/Kg	1800		11/19/02	337.07	EPA8270
Pyrene	ug/Kg	1700		11/19/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	900		11/19/02	337.07	EPA8270
Chrysene	ug/Kg	870		11/19/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	730	#	11/19/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	730	#	11/19/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	750		11/19/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	380		11/19/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	370		11/19/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1460 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.09 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1245

MATRIX:Soil SAMPLE: SB-9 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
enzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
oluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
thyl Benzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	11.764	EPA8021
Xylene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ylene	ug/Kg	< 18		11/13/02	17.647	EPA8021
sopropylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Propylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Isopropyltoluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
aphthalene(v)	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Solids		85		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.09 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1245

MATRIX:Soil SAMPLE: SB-9 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/Kg	< 350		11/19/02	352.94	EPA8270
cenaphthene	ug/Kg	560		11/19/02	352.94	EPA8270
luorene	ug/Kg	610		11/19/02	352.94	EPA8270
henanthrene	ug/Kg	4900		11/19/02	352.94	EPA8270
nthracene	ug/Kg	1200		11/19/02	352.94	EPA8270
luoranthene	ug/Kg	6900		11/19/02	352.94	EPA8270
yrene	ug/Kg	6900		11/19/02	352.94	EPA8270
enzo(a)anthracene	ug/Kg	2900		11/19/02	352.94	EPA8270
hrysene	ug/Kg	3100		11/19/02	352.94	EPA8270
enzo(b)fluoranthene	ug/Kg	2500	#	11/19/02	352.94	EPA8270
enzo(k)fluoranthene	ug/Kg	2500	#	11/19/02	352.94	EPA8270
enzo(a)pyrene	ug/Kg	2600		11/19/02	352.94	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	1100		11/19/02	352.94	EPA8270
ibenzo(a,h)anthracene	ug/Kg	560		11/19/02	352.94	EPA8270
enzo(ghi)perylene	ug/Kg	990		11/19/02	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =5000 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.10 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1400
MATRIX:Soil SAMPLE: SB-10 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
enzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
oluene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
thyl Benzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	12.195	EPA8021
Xylene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
ylene	ug/Kg	< 18		11/13/02	18.292	EPA8021
sopropylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
-Propylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
35-Trimethylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
24-Trimethylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
ec-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
-Isopropyltoluene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
aphthalene(v)	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
ert-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
Solids		82		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.10 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1400

MATRIX:Soil SAMPLE: SB-10 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/Kg	500		11/19/02	365.85	EPA8270
cenaphthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
luorene	ug/Kg	< 370		11/19/02	365.85	EPA8270
henanthrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
nthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
luoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
yrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(a)anthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
hrysene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(b)fluoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(k)fluoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(a)pyrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
ibenzo(a,h)anthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(ghi)perylene	ug/Kg	< 370		11/19/02	365.85	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.11 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1500
MATRIX:Soil SAMPLE: SB-11 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
enzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
oluene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
thyl Benzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
+ p Xylene	ug/Kg	< 11		11/13/02	11.494	EPA8021
Xylene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
ylene	ug/Kg	< 17		11/13/02	17.241	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
-Isopropyltoluene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
Solids		87		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.11 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1500

MATRIX:Soil SAMPLE: SB-11 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/Kg	< 340		11/19/02	344.82	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
luorene	ug/Kg	< 340		11/19/02	344.82	EPA8270
henanthrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
nthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
luoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
yrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(a)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
hrysene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(b)fluoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(k)fluoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(a)pyrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
ibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(ghi)perylene	ug/Kg	< 340		11/19/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.12 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1520

MATRIX:Soil SAMPLE: SB-12 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
enzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
oluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
thyl Benzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	11.764	EPA8021
Xylene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ylene	ug/Kg	< 18		11/13/02	17.647	EPA8021
sopropylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Propylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
35-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Isopropyltoluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
aphthalene(v)	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Solids		85		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.12 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1520

MATRIX:Soil SAMPLE: SB-12 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	690		11/19/02	352.94	EPA8270
Acenaphthene	ug/Kg	< 350		11/19/02	352.94	EPA8270
Fluorene	ug/Kg	530		11/19/02	352.94	EPA8270
Phenanthrene	ug/Kg	2600		11/19/02	352.94	EPA8270
Anthracene	ug/Kg	810		11/19/02	352.94	EPA8270
Fluoranthene	ug/Kg	3300		11/19/02	352.94	EPA8270
Pyrene	ug/Kg	2900		11/19/02	352.94	EPA8270
Benzo(a)anthracene	ug/Kg	1500		11/19/02	352.94	EPA8270
Chrysene	ug/Kg	1600		11/19/02	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	1400	#	11/19/02	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	1400	#	11/19/02	352.94	EPA8270
Benzo(a)pyrene	ug/Kg	1300		11/19/02	352.94	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	860		11/19/02	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	420		11/19/02	352.94	EPA8270
Benzo(ghi)perylene	ug/Kg	910		11/19/02	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =2800 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.230125.00 01/14/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/08/03 RECEIVED:01/09/03
TIME COL'D:1100

MATRIX:Soil SAMPLE: TP-1
waste Oil UST

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	14		01/11/03	5.8823	EPA8021
enzene	ug/Kg	< 5.9		01/11/03	5.8823	EPA8021
oluene	ug/Kg	26		01/11/03	5.8823	EPA8021
thyl Benzene	ug/Kg	180		01/11/03	5.8823	EPA8021
+ p Xylene	ug/Kg	980		01/11/03	11.764	EPA8021
Xylene	ug/Kg	420		01/11/03	5.8823	EPA8021
ylene	ug/Kg	1400		01/11/03	17.647	EPA8021
sopropylbenzene	ug/Kg	80		01/11/03	5.8823	EPA8021
-Propylbenzene	ug/Kg	190		01/11/03	5.8823	EPA8021
35-Trimethylbenzene	ug/Kg	350		01/11/03	5.8823	EPA8021
24-Trimethylbenzene	ug/Kg	1400		01/11/03	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	160		01/11/03	5.8823	EPA8021
-Isopropyltoluene	ug/Kg	140		01/11/03	5.8823	EPA8021
-Butylbenzene	ug/Kg	< 5.9		01/11/03	5.8823	EPA8021
aphthalene(v)	ug/Kg	390		01/11/03	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	11		01/11/03	5.8823	EPA8021
Solids		85		01/10/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.230125.00 01/14/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/08/03 RECEIVED:01/09/03
TIME COL'D:1100

MATRIX:Soil SAMPLE: TP-1

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	530		01/10/03	352.94	EPA8270
Acenaphthene	ug/Kg	< 350		01/10/03	352.94	EPA8270
Fluorene	ug/Kg	< 350		01/10/03	352.94	EPA8270
Phenanthrene	ug/Kg	2500		01/10/03	352.94	EPA8270
Anthracene	ug/Kg	810		01/10/03	352.94	EPA8270
Fluoranthene	ug/Kg	4600		01/10/03	352.94	EPA8270
Pyrene	ug/Kg	5800		01/10/03	352.94	EPA8270
Benzo(a)anthracene	ug/Kg	2900		01/10/03	352.94	EPA8270
Chrysene	ug/Kg	3200		01/10/03	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	2600	#	01/10/03	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	2600	#	01/10/03	352.94	EPA8270
Benzo(a)pyrene	ug/Kg	2900		01/10/03	352.94	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1400		01/10/03	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	620		01/10/03	352.94	EPA8270
Benzo(ghi)perylene	ug/Kg	1400		01/10/03	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 5200 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.232577.02 06/02/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, Brooklyn, #39936.008
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:05/23/03 RECEIVED:05/28/03
TIME COL'D:1330

MATRIX:Soil SAMPLE: WOT 6'

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		05/29/03	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		05/29/03	337.07	EPA8270
Fluorene	ug/Kg	< 340		05/29/03	337.07	EPA8270
Phenanthrene	ug/Kg	2200		05/29/03	337.07	EPA8270
Anthracene	ug/Kg	600		05/29/03	337.07	EPA8270
Fluoranthene	ug/Kg	3100		05/29/03	337.07	EPA8270
Pyrene	ug/Kg	3900		05/29/03	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	1700		05/29/03	337.07	EPA8270
Chrysene	ug/Kg	1700		05/29/03	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	1200	#	05/29/03	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	1200	#	05/29/03	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	1500		05/29/03	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	700		05/29/03	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		05/29/03	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	760		05/29/03	337.07	EPA8270
% Solids		89		05/29/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 2400 ug/Kg, unable to separate isomers.

DIRECTOR

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

2004 JUN -9 PM 12:39
NYS DEC REGION 2
RECEIVED

June 8, 2004
File # 39936

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Site Investigation
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents the results of investigative activities conducted at the above referenced site. A site location map is provided as Figure 1, attached. This investigation was conducted to further assess impacts associated with two recent New York State Department of Environmental Conservation (NYSDEC) spill numbers assigned to the site. NYSDEC Spill #0202804 addresses petroleum-impacted soils discovered during the removal of 20 underground storage tanks located in the northeastern portion of the site in June and July 2002. NYSDEC Spill #0204002 was assigned to black-stained soil exhibiting strong petroleum odors discovered in the southwestern portion of the site during construction activities. A review of historic Sandborn Maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. The investigation of impacted soil associated with both spill numbers was previously discussed in our August 28, 2002 letter report.

The scope of this investigation was developed based upon the conclusions and recommendations provided by Gannett Fleming (GF) in our August 28, 2002 letter report. The purpose of this investigation was to confirm that polynuclear aromatic hydrocarbon (PAH) concentrations detected in soil are ubiquitous to the urban fill at the site and to determine if on-site and off-site petroleum releases have impacted groundwater quality at the site. Soil samples were collected from six soil borings advanced at the site. Soil samples were collected to assess PAH concentrations in soil throughout the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and in the southwest portion of the site (Spill #0204002) where the former Brooklyn Union Gas terminal was present. Monitoring wells were installed in each of the boreholes to assess on-site groundwater quality. A Site Plan is provided as Figure 2.

Continued . . .

Background

In June and July 2002, Brookside Environmental Services (Brookside) removed 20 USTs and approximately 900 tons of petroleum-impacted soil from the site. Spill #0202804 was issued to the site due to the petroleum impact to the site subsurface caused by the USTs.

Soil Boring Advancement and Soil Sampling

On December 8 and 9, 2003, Associated Environmental Services, Inc. (Associated), under contract to GF, advanced six soil borings (B-1 through B-6) using a hollow stem drill rig (B-1, B-5, B-6) or a Geoprobe® rig (B-2, B-3, B-4). The soil borings were drilled at the monitoring well locations MW-1 through MW-6 in advance of installing the wells (see below). A site plan depicting the soil boring locations is provided as Figure 2, attached. Soil samples were collected continuously down to the water table using a 2-foot long split spoon (SS) sampler (B-1, B-5, B-6) or a 4-foot long Macro-Core® sampler with dedicated acetate liners (B-2, B-3, B-4). All non-dedicated sampling equipment, i.e. SS sampler, was field decontaminated using a non-phosphate detergent wash followed by a potable water rinse prior to and between each sample collection. A new acetate liner was used for each sample collected using the GeoProbe® rig. Each sample was lithologically logged and field screened for organic vapors using a photoionization detector (PID) by a GF environmental professional. The soil boring logs are provided in Attachment A.

One soil sample was retained from each boring from the depth interval exhibiting the greatest evidence (odor, staining, or PID reading) of contamination. For borings exhibiting no evidence of contamination, a soil sample was retained from immediately above the water table. Retained samples were placed in an ice-filled cooler and delivered to EcoTest Laboratories, Inc. (NELAP #10320) for analysis for VOCs by Method 8021 and PAHs via Method 8270 using New York Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memorandum #1 criteria. Chain-of-Custody protocols were followed for the handling and delivery of the soil samples.

Monitoring Well Installation and Groundwater Sampling

Monitoring wells (MW-1 through MW-6) were installed in each of the boreholes (B-1 through B-6). An additional monitoring well (MW-7) was installed in the area of the former UST excavation to replace a former well point (WP-1) destroyed during site development activities.

Continued . . .

A borehole was drilled at each well location to a depth of approximately 20 feet below grade with a drill rig using 6-inch diameter hollow stem augers, with the exception of MW-3. At MW-3, the borehole was drilled using a 4-½ inch hollow stem auger because MW-3 was installed in a pre-existing 1-foot diameter manway located within the newly constructed, reinforced concrete truck apron. Groundwater was encountered at a depth of approximately 8 feet through out the site. Monitoring wells consisting of 4-inch diameter PVC with a 15-foot screened interval were installed at each location, with the exception of MW-3 (which was completed as a 2-inch diameter monitoring well). Once the well riser was in place, each borehole was backfilled with #2 sand up to a depth of 2 feet below grade. A bentonite seal was installed above the sandpack. Wells were finished with a concrete slab and an at-grade flush-mount curb-box cover. Locking well caps were placed on all monitoring wells. GF personnel developed each of the wells using a centrifugal pump. Each well was developed by purging a minimum of 5 well volumes or until dry. Well construction logs are provided in Attachment B.

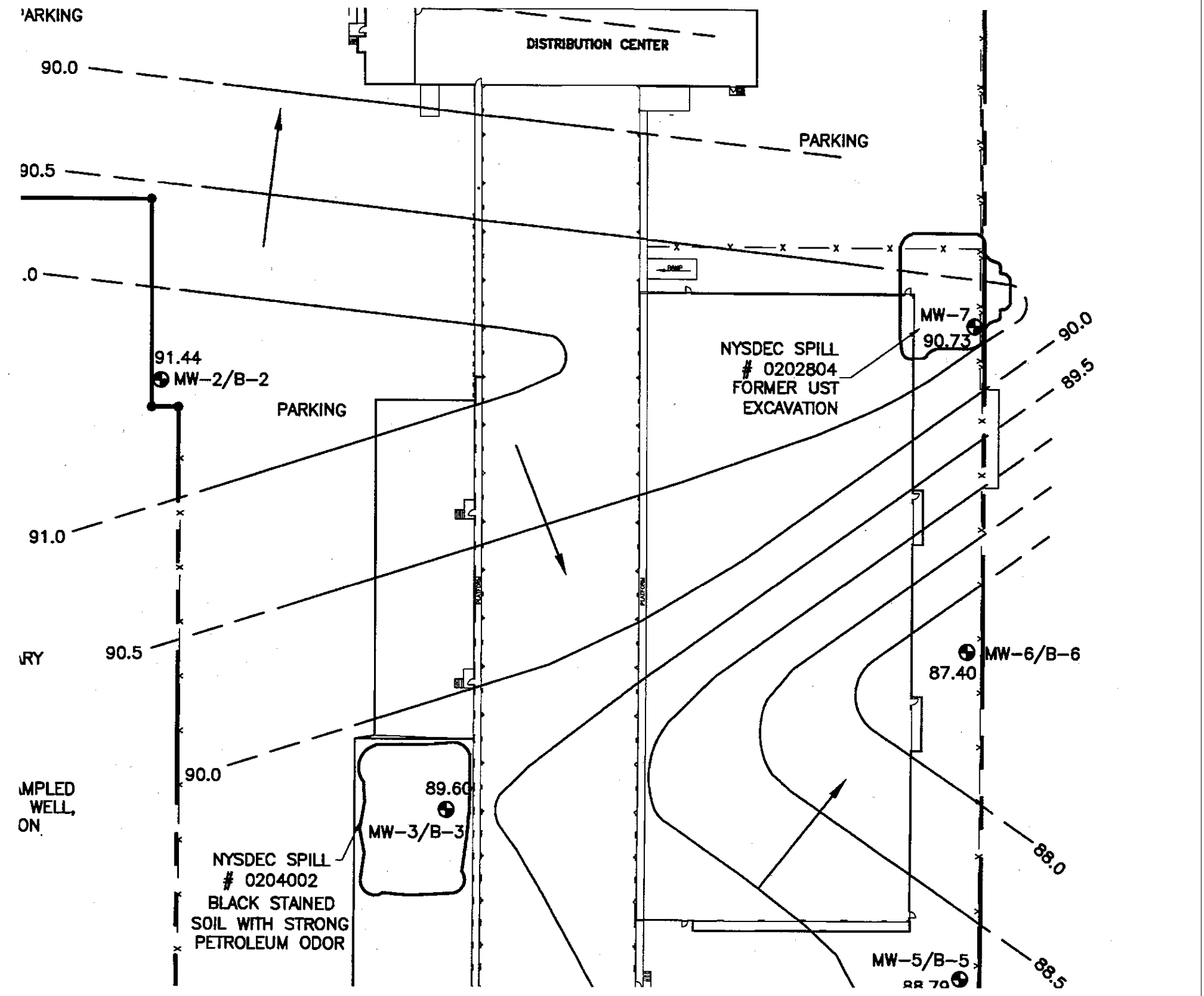
GF personnel returned to the site on January 6, 2004 to sample the on-site monitoring wells. Prior to sampling, depth to water measurements were collected from each well. Each monitoring well was purged of groundwater a minimum of three volumes or until dry using a centrifugal pump with dedicated polyethylene tubing. The wells that dried were allowed to recover prior to sample collection. Groundwater samples were collected from each monitoring well using dedicated polyethylene bailers. Samples were placed in an ice-filled cooler and delivered to EcoTest for analysis for VOCs by EPA Method 8021 and PAHs by EPA Method 8270 using NYSTARS criteria. Chain-of-Custody protocols were followed for the handling and delivery of the groundwater samples. Glassware containing a portion of the groundwater sample from MW-5 was destroyed during transport. GF personnel returned to the site on January 9, 2004 to resample the well.

The drill cuttings from monitoring installation were placed in eight 55-gallon drums for transport and disposal. On March 3, 2004, the eight drums of drill cuttings were transported from the site for disposal at Waste Recovery Solutions, Inc. in Myerstown, Pennsylvania as non-hazardous waste.

Results

Based upon groundwater elevation measurements, groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site. A site plan depicting groundwater elevation contours is provided as Figure 2.

Continued . . .


'ARKING
DISTRIBUTION CENTER
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PARKING
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91.44
MW-2/B-2
PARKING
MW-7
90.73
NYSDEC SPILL
0202804
FORMER UST
EXCAVATION
90.0
89.5
91.0
90.5
RY
MW-6/B-6
87.40
MPLED
WELL,
ON
90.0
89.60
MW-3/B-3
NYSDEC SPILL
0204002
BLACK STAINED
SOIL WITH STRONG
PETROLEUM ODOR
88.0
MW-5/B-5
88.5

New York State Department of Environmental Conservation
Petroleum Remediation Unit
Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, New York 11101-5407
Phone: (718)482-6364 • **FAX:** (718)482-6358
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

October 18, 2004

Mr. Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, Pa. 15108
Fax: (412) 859-5450

Re: 300 Maspeth Avenue, Brooklyn, NY
Spill #: 0202804

Dear Mr. Swart:

The New York State Department of Environmental Conservation (the Department) has received and reviewed the Site Investigation Report dated June 8, 2004 submitted by Gannett Fleming for the above referenced site. The Department has reviewed the Plan and requires the following::

1. *Quarterly GroundWater Sampling:* As per DER-10 Technical Guidance for Site Investigation and Remediation Section 6.3.c.4.i "Sampling should be conducted on a quarterly basis at monitoring wells associated with plume management monitoring, for a minimum of eight quarters.". In accordance the Department is requiring one full year of quarterly groundwater monitoring. Upon completion of the year of monitoring, a no further action request may be submitted to the Department.

Please notify the Department upon scheduling an investigation date. If you wish to discuss this letter, please call my office at (718) 482-6364.

Sincerely,

Jeffrey Vought

Jeffrey Vought
Engineering Geologist
Environmental Remediation Division
Region 2

cc: M. Bohms (Gannett Fleming)

New York State Department of Environmental Conservation
Petroleum Remediation, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-6364 • **FAX:** (718) 482-6358
E-Mail: jbvought@gw.dec.state.ny.us

Erin M. Crotty
Commissioner

FAX

To: M Bohms
Fax #: 212-968-6684
Pages: 2
From: Vought
Subject: 300 Maspeth
Date: 10/18/04

Hardcopy to Swart in mail.
See you tommorrow at West End at 10am.

Jeff

Gannett Fleming

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

March 18, 2005
File # 43956.051

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) quarterly groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on December 29, 2004. The purpose of this investigation is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

Groundwater samples were collected on December 29, 2004 from six of the seven wells installed in December 2003. A car was parked over monitoring well MW-1 on the day of the sampling event and the well could not be accessed. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in each well (except MW-1). Floating product was not encountered. Three to four casing volumes of groundwater were purged from wells MW-2 through MW-7 using dedicated polyethylene bailers and groundwater samples were collected immediately after each well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, N.Y. for analysis, all in accord with chain-of-custody protocols.

Results

Since MW-1 was not accessible, the groundwater elevation at the north end of the site could not be determined. Elevation measurements in the remaining six wells indicate that groundwater flowing from the northwest and southwest converges to the east in the southeastern portion of the site. Although the groundwater elevation at the north end of the site could not be defined, the direction of groundwater flow remains consistent with GF's June 2004 report. A site plan showing groundwater elevation contours is provided as Figure 2.

Continued . . .

No VOCs or PAHs were detected at concentrations above NYSDEC Groundwater Standards in MW-6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-2, 3, 4, 5 and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-2	MW-3	MW-4	MW-5	MW-7
VOC						
Benzene	0.7	52	4	--	--	22
Toluene	5	--	--	--	--	9
Ethylbenzene	5	--	--	--	--	7
Total Xylenes	5	--	--	--	--	32
1,2,4-Trimethylbenzene	5	--	--	--	--	16
1,3,5-Trimethylbenzene	5	--	--	--	--	6
Naphthalene (VOC)	10	62	--	--	--	200
PAH						
Naphthalene (PAH)	10	13	--	--	--	70
Phenanthrene	50	93	--	--	--	--
Pyrene	50	82	--	--	--	--
Benzo (a) anthracene	0.002	27	1	2	2	2
Chrysene	0.002	21	1	2	2	2
Benzo (b) fluoranthene	0.002	18	--	1.5	1.5	1.5
Benzo (k) fluoranthene	0.002	18	--	1.5	1.5	1.5
Benzo (a) pyrene	0.002	19	--	2	1	1
Indeno (1,2,3-cd) pyrene	0.002	7	--	--	--	--
Benzo (ghi) perylene	5	7	--	--	--	--

Note: Concentrations are micrograms per liter (µg/l).

As reported in GF's June 2004 site report, VOC and PAH compounds sampled on January 6th, 2004 were not detected in MW-3, 4, 5, and 6. Sample results from GF's December 2004 sampling round reported VOCs and PAHs detected above TOGS in wells MW-3, 4, and 5. Specific compounds are listed above.

Continued . . .

Concentrations of benzene, naphthalene, benzo (a) anthracene, and chrysene found in MW-2 in December 2004 were higher than reported in the January 2004 sample data, while the concentration of ethylbenzene was lower. There were also seven additional PAH compounds detected above TOGS that were either not detected or not found above TOGS in the June 2004 report.

Concentrations of benzene, 1,2,4-trimethylbenzene, and naphthalene in MW-7 from the December 2004 sampling round were higher compared to the January 2004 sample data, while the concentration of ethylbenzene was unchanged and the concentration of total xylenes was less. There were also two additional VOC compounds and five additional PAH compounds detected above TOGS that were either not detected or not found above TOGS in the June 2004 report.

Conclusions

The VOC data is generally consistent with that reported in the January 2004 data. Given their low solubility, the occurrence of PAH's in the December 2004 sampling round is likely representative of elevated turbidity levels observed in these samples. Due to the fine-grained soils found at the site, turbidity levels were observed at well above 50 NTU in groundwater samples.

Complete analytical results for the December 2004 sampling round and for the June 2004 site report are provided as Table 1 and Table 2 respectively for further comparison. Analytical laboratory data sheets for the December 2004 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

cc: Jerry Swart
Robert Dengler

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
DECEMBER 29, 2004

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	NS	2	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	NS	**52**	**4**	< 1	< 1	< 1	**22**
Toluene	5	NS	3	< 1	< 1	< 1	< 1	**9**
Ethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	NS	< 2	< 2	< 2	< 2	< 2	20
O-Xylene	--	NS	2	< 1	< 1	< 1	< 1	12
Total Xylenes	5	NS	< 3	< 3	< 3	< 3	< 3	**32**
Isopropylbenzene	5	NS	3	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	NS	1	3	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	NS	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	NS	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	NS	**62**	< 1	2	< 1	< 1	**200**
tert-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	NS	**13**	< 1	< 1	< 1	< 1	**70**
Acenaphthylene	20	NS	7	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	NS	15	< 1	< 1	**4**	< 1	7
Fluorene	50	NS	19	< 1	< 1	4	< 1	4
Phenanthrene	50	NS	**93**	2	1	3	1	9
Anthracene	50	NS	29	< 1	< 1	< 1	< 1	2
Fluoranthene	50	NS	45	2	3	3	2	4
Pyrene	50	NS	**82**	3	4	3	2	4
Benzo(a)anthracene	0.002	NS	**27**	**1**	**2**	**2**	< 1	**2**
Chrysene	0.002	NS	**21**	**1**	**2**	**2**	< 1	**2**
Benzo(b)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(k)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(a)pyrene	0.002	NS	**19**	< 1	**2**	**1**	< 1	**1**
Ideno(1,2,3-cd)pyrene	0.002	NS	7	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	NS	2	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	NS	7	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit
NS	Not sampled

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JANUARY 6, 2004

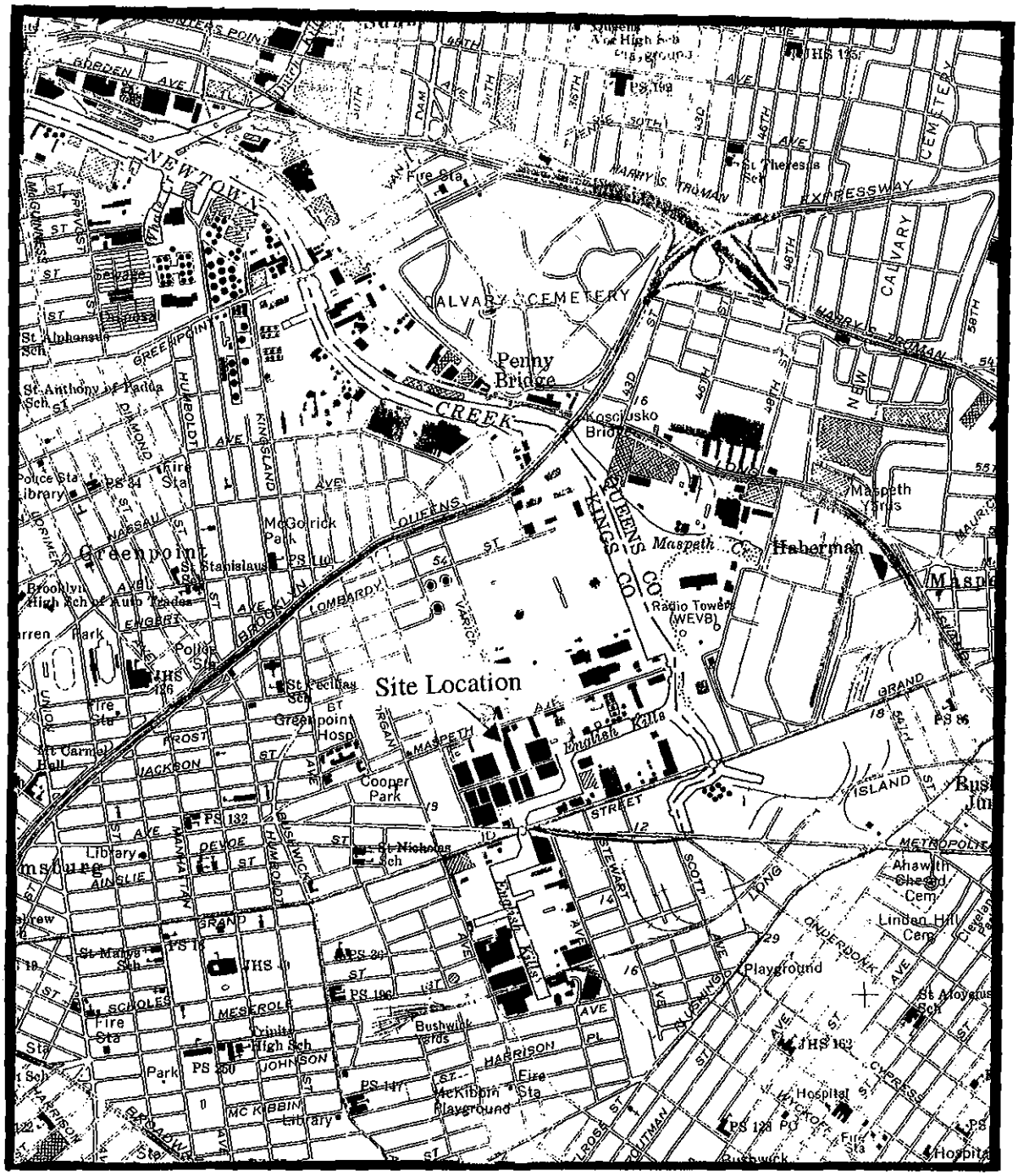
SAMPLE ID:	NYSDEC Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		1/6/2004	1/6/2004	1/6/2004	1/6/2004	1/6/04 & 1/9/04	1/6/2004	1/6/2004
VOCs (ppb) - EPA Method 8021								
Benzene	0.7	-	**10**	-	-	-	-	**20**
Toluene	5	-	-	-	-	-	-	2
Ethylbenzene	5	-	**7**	-	-	-	-	**7**
M&P-Xylenes	--	-	-	3	-	-	-	23
O-Xylene	--	21	-	2	-	-	-	12
Total Xylenes	5	**21**	-	5	-	-	-	**35**
Isopropylbenzene	5	-	3	-	-	-	-	-
n-Propylbenzene	5	-	1	-	-	-	-	1
1,3,5-Trimethylbenzene	5	**13**	1	-	-	-	-	5
1,2,4-Trimethylbenzene	5	-	2	3	-	-	-	**12**
sec-Butylbenzene	5	-	-	-	-	-	-	-
p-Isopropyltoluene	5	1	-	4	-	-	-	2
n-Butylbenzene	5	-	-	-	-	-	-	-
Naphthalene (VOC)	10	-	**93**	-	-	-	-	**52**
tert-Butylbenzene	5	-	-	-	-	-	-	-
Methyl tert-butyl ether	10	1	-	-	-	-	-	2
PAHs (ppb) - EPA Method 8270								
Acenaphthene	20	-	6	2	-	-	-	3
Fluorene	50	-	6	1	-	-	-	2
Phenanthrene	50	-	12	2	-	-	-	4
Anthracene	50	-	4	-	-	-	-	-
Fluoranthene	50	-	4	-	-	-	-	-
Pyrene	50	-	4	-	-	-	-	-
Benzo(a)anthracene	0.002	-	**1**	-	-	-	-	-
Chrysene	0.002	-	**1**	-	-	-	-	-
Benzo(b)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(a)pyrene	0.002	-	-	-	-	-	-	-
Ideno(1,2,3-cd)pyrene	0.002	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	50	-	-	-	-	-	-	-
Benzo(ghi)perylene	5	-	-	-	-	-	-	-
Naphthalene (PAH)	10	**97**	**43**	3	-	-	-	**28**

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

FIGURES

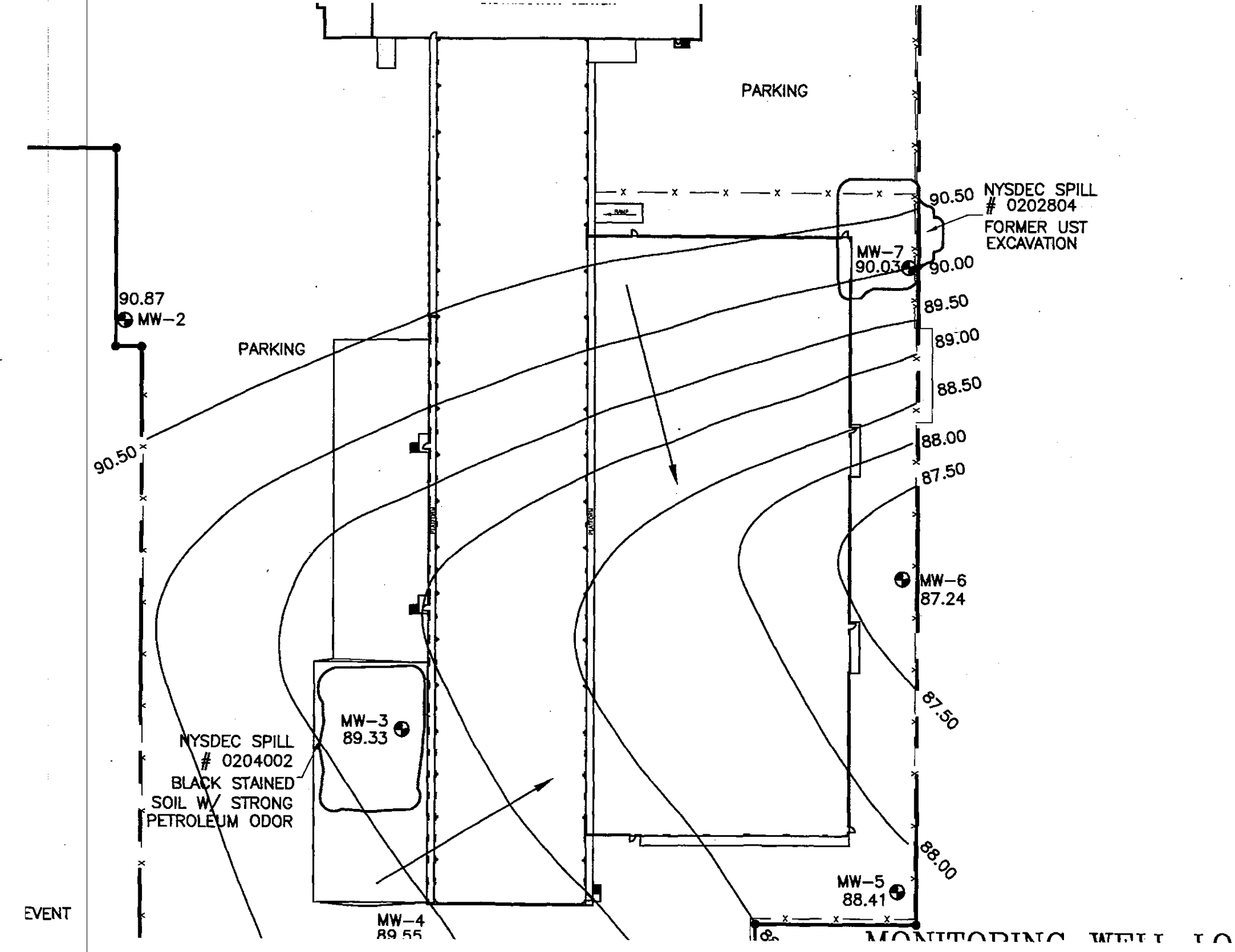
300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP


PARKING
PARKING
90.87
MW-2
90.50
NYSDEC SPILL
0202804
FORMER UST
EXCAVATION
MW-7
90.03
90.50
90.00
89.50
89.00
88.50
88.00
87.50
MW-6
87.24
87.50
88.00
MW-5
88.41
MW-3
89.33
NYSDEC SPILL
0204002
BLACK STAINED
SOIL W/ STRONG
PETROLEUM ODOR
MW-4
89.55
EVENT
MONITORING WELL LO

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.01 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-2

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er,ButylMethylEther	ug/L	2		01/07/05	1	EPA8021
enzene	ug/L	52		01/07/05	1	EPA8021
oluene	ug/L	3		01/07/05	1	EPA8021
thyl Benzene	ug/L	3		01/07/05	1	EPA8021
+ p Xylene	ug/L	< 2		01/07/05	2	EPA8021
Xylene	ug/L	2		01/07/05	1	EPA8021
ylene	ug/L	< 3		01/07/05	3	EPA8021
sopropylbenzene	ug/L	3		01/07/05	1	EPA8021
-Propylbenzene	ug/L	1		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	3		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	62		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.01 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-2

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	13		01/04/05	1	EPA8270
cenaphthylene	ug/L	7		01/04/05	1	EPA8270
cenaphthene	ug/L	15		01/04/05	1	EPA8270
luorene	ug/L	19		01/04/05	1	EPA8270
henanthrene	ug/L	93		01/04/05	1	EPA8270
nthracene	ug/L	29		01/04/05	1	EPA8270
luoranthene	ug/L	45		01/04/05	1	EPA8270
yrene	ug/L	82		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	27		01/04/05	1	EPA8270
hrysene	ug/L	21		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	18	#*	01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	18	#*	01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	19	*	01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	7	*	01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	2	*	01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	7	*	01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =36 ug/L, unable to separate isomers.
*Estimated due to low internal standard recovery, *40%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.02 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
enzene	ug/L	< 1		01/07/05	1	EPA8021
oluene	ug/L	< 1		01/07/05	1	EPA8021
thyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
+ p Xylene	ug/L	< 2		01/07/05	2	EPA8021
Xylene ,	ug/L	< 1		01/07/05	1	EPA8021
ylene	ug/L	< 3		01/07/05	3	EPA8021
sopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	2		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.02 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
cenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
cenaphthene	ug/L	< 1		01/04/05	1	EPA8270
luorene	ug/L	< 1		01/04/05	1	EPA8270
henanthrene	ug/L	1		01/04/05	1	EPA8270
nthracene	ug/L	< 1		01/04/05	1	EPA8270
luoranthene	ug/L	3		01/04/05	1	EPA8270
yrene	ug/L	4		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
hrysene	ug/L	2		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	2		01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.03 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1345
MATRIX:Water SAMPLE: MW-5

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
enzene	ug/L	< 1		01/07/05	1	EPA8021
oluene	ug/L	< 1		01/07/05	1	EPA8021
thyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
+ p Xylene	ug/L	< 2		01/07/05	2	EPA8021
Xylene	ug/L	< 1		01/07/05	1	EPA8021
ylene	ug/L	< 3		01/07/05	3	EPA8021
sopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

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REMARKS:

DIRECTOR

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LAB NO.245518.03 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
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ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1345
MATRIX:Water SAMPLE: MW-5

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
cenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
cenaphthene	ug/L	4		01/04/05	1	EPA8270
luorene	ug/L	4		01/04/05	1	EPA8270
henanthrene	ug/L	3		01/04/05	1	EPA8270
nthracene	ug/L	< 1		01/04/05	1	EPA8270
luoranthene	ug/L	3		01/04/05	1	EPA8270
yrene	ug/L	3		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
hrysene	ug/L	2		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	1		01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.04 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1425

MATRIX:Water SAMPLE: MW-6

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
enzene	ug/L	< 1		01/07/05	1	EPA8021
oluene	ug/L	< 1		01/07/05	1	EPA8021
thyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
+ p Xylene	ug/L	< 2		01/07/05	2	EPA8021
Xylene	ug/L	< 1		01/07/05	1	EPA8021
ylene	ug/L	< 3		01/07/05	3	EPA8021
sopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.245518.04 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1425
MATRIX:Water SAMPLE: MW-6

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
cenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
cenaphthene	ug/L	< 1		01/04/05	1	EPA8270
luorene	ug/L	< 1		01/04/05	1	EPA8270
henanthrene	ug/L	1		01/04/05	1	EPA8270
nthracene	ug/L	< 1		01/04/05	1	EPA8270
luoranthene	ug/L	2		01/04/05	1	EPA8270
yrene	ug/L	2		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	< 1		01/04/05	1	EPA8270
hrysene	ug/L	< 1		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.05 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1525
MATRIX:Water SAMPLE: MW-3

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
enzene	ug/L	4		01/07/05	1	EPA8021
oluene	ug/L	< 1		01/07/05	1	EPA8021
thyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
+ p Xylene	ug/L	< 2		01/07/05	2	EPA8021
Xylene	ug/L	< 1		01/07/05	1	EPA8021
ylene	ug/L	< 3		01/07/05	3	EPA8021
sopropylbenzene	ug/L	4		01/07/05	1	EPA8021
-Propylbenzene	ug/L	3		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	2		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.05 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1525
MATRIX:Water SAMPLE: MW-3

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
cenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
cenaphthene	ug/L	< 1		01/04/05	1	EPA8270
luorene	ug/L	< 1		01/04/05	1	EPA8270
henanthrene	ug/L	2		01/04/05	1	EPA8270
nthracene	ug/L	< 1		01/04/05	1	EPA8270
luoranthene	ug/L	2		01/04/05	1	EPA8270
yrene	ug/L	3		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	1		01/04/05	1	EPA8270
hrysene	ug/L	1		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.06 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1610
MATRIX:Water SAMPLE: MW-7

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er,ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
enzene	ug/L	22		01/07/05	1	EPA8021
oluene	ug/L	9		01/07/05	1	EPA8021
thyl Benzene	ug/L	7		01/07/05	1	EPA8021
+ p Xylene	ug/L	20		01/07/05	2	EPA8021
Xylene	ug/L	12		01/07/05	1	EPA8021
ylene	ug/L	32		01/07/05	3	EPA8021
sopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
35-Trimethylbenzene	ug/L	6		01/07/05	1	EPA8021
24-Trimethylbenzene	ug/L	16		01/07/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
-Isopropyltoluene	ug/L	3		01/07/05	1	EPA8021
-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
aphthalene(v)	ug/L	200		01/07/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.245518.06 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1610
MATRIX:Water SAMPLE: MW-7

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
aphthalene(sv)	ug/L	70		01/04/05	1	EPA8270
cenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
cenaphthene	ug/L	7		01/04/05	1	EPA8270
luorene	ug/L	4		01/04/05	1	EPA8270
henanthrene	ug/L	9		01/04/05	1	EPA8270
nthracene	ug/L	2		01/04/05	1	EPA8270
luoranthene	ug/L	4		01/04/05	1	EPA8270
yrene	ug/L	4		01/04/05	1	EPA8270
enzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
hrysene	ug/L	2		01/04/05	1	EPA8270
enzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
enzo(a)pyrene	ug/L	1		01/04/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

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377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client: Gannett Fleming
Address: 480 Forest Ave
Locust Valley NY 11560
Phone: (516) 671-8440 FAX: (516) 671-3349
Person receiving report: Anthony Vanatta
Sampled by: Anthony Vanatta
Source: Fedex Maspeth Ave
Job No.: 43956.

TYPE & NUMBER OF CONTAINERS

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	Stars VOC 8021	Stars SVOC 8270										QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED
Water	12/29/04	1200	MW-2	3	2	1												
		1300	MW-4															
		~~[illegible]~~	MW-5 13:45															Standard
		~~1525~~	MW-6 14:25															turnaround
		1525	MW-3															
		1610	MW-7															

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Anthony Vanatta Representing: Gannett	12/29/04 1800	YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: (Signature) Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) Representing:	Relinquished by: (Signature) Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) Representing:

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

June 30, 2005
File # 43956.051

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) second quarter, 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on June 9, 2005. The purpose of the sampling is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

On June 9, 2005, groundwater samples were collected from the seven monitoring wells installed at the site. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in wells MW-2 through MW-7. MW-1 was immediately purged and sampled following depth to product and depth to water measurements to complete sampling of the well before vehicles could possibly park over it. No floating product was observed in any of the wells. Three to four casing volumes of groundwater were purged from each well using a centrifugal pump with dedicated polyethylene tubing. At the completion of each purged casing volume, pH, conductivity, temperature, and turbidity were measured and recorded in field sampling logs. Groundwater samples were collected immediately after the well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, New York for analysis. Samples were handled in accordance with chain-of-custody protocols.

Continued...

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow is consistent with the previous data collected in February 2005. A site plan showing groundwater elevation contours is provided as Figure 2.

No VOCs or PAHs were detected in MW-4, 5, and 6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 2, 3, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-7
VOC					
Benzene	0.7	10	13	7	22
Toluene	5	--	--	--	7
Ethylbenzene	5	22	--	--	7
Total Xylenes	5	15	--	--	37
Isopropyl Benzene	5	7	--	--	--
1,3,5-Trimethylbenzene	5	--	--	--	6
1,2,4-Trimethylbenzene	5	27	--	--	15
Naphthalene (VOC)	10	53	--	--	110
PAH					
Naphthalene (PAH)	10	25	--	--	65

Note: Concentrations are micrograms per liter (µg/l).

VOC results from the June 2005 sampling round of MW-1 through 7 are generally consistent with the data from the February 2005 sampling round. PAH results from the June 2005 sampling round of MW-1 through 7 are also generally consistent with the previous data, with the exception of MW-3 and MW-4. In the June 2005 sample results, MW-3 and 4 have no PAH compounds at concentrations above TOGS compared to the February 2005 results, where MW-3 and 4 had six PAH compounds (benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene) at concentrations above TOGS.

Conclusions

The VOC data is generally consistent with that reported in the February 2005 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

Continued...

- Because of their low solubility, the absence of PAH's in wells MW-3 and 4 during the June 2005 sampling round is most likely associated with the lower turbidity levels observed. During the February 2005 sampling round, the sample turbidity level in MW-3 was observed at greater than 999 NTU, while the sample turbidity level in June 2005 was observed at 168 NTU. The turbidity readings for MW-4 were 68 NTU in February 2005 and 4.27 NTU in June 2005.

- When comparing contaminant concentrations in site wells to groundwater flow direction, it appears that groundwater contamination is stagnant.

The complete analytical summary tables for February and June 2005 sampling rounds are provided as Tables 1 and 2 respectively for further comparison. Analytical laboratory data sheets for the June 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

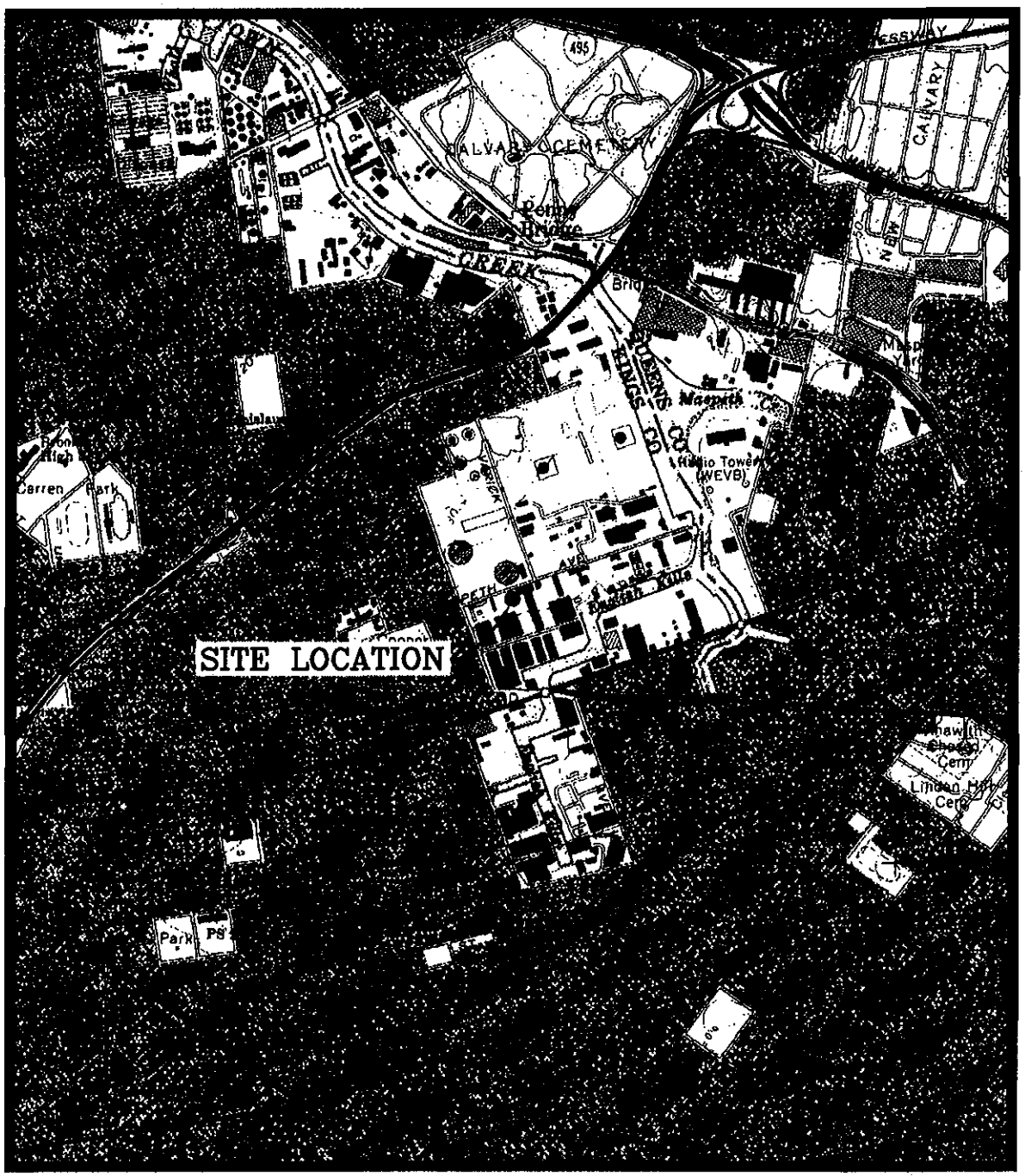
STEPHEN R. HIX
Director of Environmental Services

Encl.

cc: Jerry Swart, Fed Ex Ground
Robert Dengler, Fed Ex Ground

FIGURES

300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

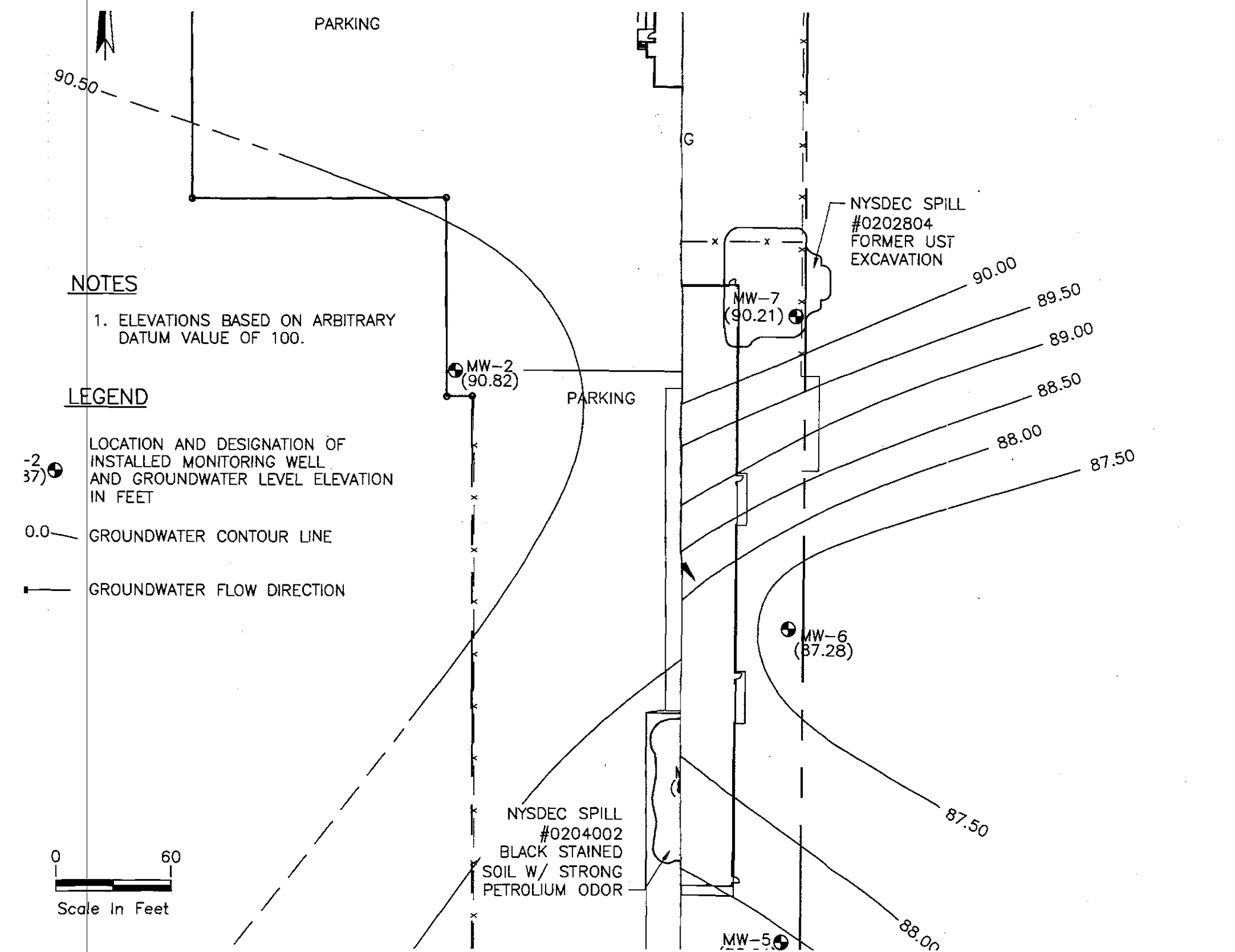

PARKING
90.50
G
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
90.00
89.50
89.00
88.50
88.00
87.50
MW-7
(90.21)
MW-2
(90.82)
PARKING
NOTES
1. ELEVATIONS BASED ON ARBITRARY DATUM VALUE OF 100.
LEGEND
-2
37)
LOCATION AND DESIGNATION OF INSTALLED MONITORING WELL AND GROUNDWATER LEVEL ELEVATION IN FEET
0.0
GROUNDWATER CONTOUR LINE
GROUNDWATER FLOW DIRECTION
MW-6
(87.28)
NYSDEC SPILL
#0204002
BLACK STAINED
SOIL W/ STRONG
PETROLIUM ODOR
87.50
88.00
MW-5
0
60
Scale In Feet

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JUNE 9, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	1
Benzene	0.7	**10**	**13**	**7**	< 1	< 1	< 1	**22**
Toluene	5	3	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**22**	2	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	7	< 2	< 2	< 2	< 2	< 2	25
O-Xylene	--	8	< 1	< 1	< 1	< 1	< 1	12
Total Xylenes	5	**15**	< 3	< 3	< 3	< 3	< 3	**37**
Isopropylbenzene	5	**7**	1	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	3	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	**27**	< 1	< 1	< 1	< 1	< 1	**15**
sec-Butylbenzene	5	< 1	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**53**	10	< 1	< 1	< 1	< 1	**110**
tert-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**25**	5	< 1	< 1	< 1	< 1	**65**
Acenaphthylene	20	< 1	< 1	1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	3	< 1	< 1	< 1	< 1	6
Fluorene	50	< 1	2	< 1	< 1	< 1	< 1	3
Phenanthrene	50	< 1	5	< 1	< 1	< 1	< 1	5
Anthracene	50	< 1	2	< 1	< 1	< 1	< 1	1
Fluoranthene	50	< 1	2	< 1	< 1	< 1	< 1	1
Pyrene	50	< 1	3	< 1	< 1	< 1	< 1	1
Benzo(a)anthracene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
FEBRUARY 24, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**6**	**4**	**6**	< 1	< 1	< 1	**16**
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**25**	< 1	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	5	< 2	< 2	< 2	< 2	< 2	28
O-Xylene	--	**6**	< 1	< 1	< 1	< 1	< 1	14
Total Xylenes	5	**11**	< 3	< 3	< 3	< 3	< 3	**42**
Isopropylbenzene	5	**7**	< 1	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	4	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	5
1,2,4-Trimethylbenzene	5	**21**	< 1	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	< 1	< 1	3	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**45**	6	< 1	< 1	< 1	< 1	**97**
tert-Butylbenzene	5	< 1	< 1	1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**12**	1	< 1	< 1	< 1	< 1	**45**
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	1	7	< 1	< 1	< 1	4
Fluorene	50	< 1	< 1	4	< 1	< 1	< 1	2
Phenanthrene	50	< 1	2	10	2	< 1	< 1	4
Anthracene	50	< 1	< 1	3	< 1	< 1	< 1	< 1
Fluoranthene	50	< 1	1	13	4	< 1	< 1	< 1
Pyrene	50	< 1	2	27	6	< 1	< 1	< 1
Benzo(a)anthracene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	**5**	**3**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	**3**	**1**	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	<1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	3	1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

ATTACHMENT A

LABORATORY ANALYTICAL DATA SHEETS

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.01 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY.11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1010
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	10		06/13/05	1	EPA8021
Toluene	ug/L	3		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	22		06/13/05	1	EPA8021
m + p Xylene	ug/L	7		06/13/05	2	EPA8021
o Xylene	ug/L	8		06/13/05	1	EPA8021
Xylene	ug/L	15		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	7		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	2		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	2		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	27		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	53		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.01 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1010
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	25		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.02 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1115
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	3		06/13/05	1	EPA8021
Benzene	ug/L	13		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	2		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	10		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.02 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1115

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	5		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	3		06/13/05	1	EPA8270
Fluorene	ug/L	2		06/13/05	1	EPA8270
Phenanthrene	ug/L	5		06/13/05	1	EPA8270
Anthracene	ug/L	2		06/13/05	1	EPA8270
Fluoranthene	ug/L	2		06/13/05	1	EPA8270
Pyrene	ug/L	3		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.03 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.252109.03 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAl METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.04 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	7		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	4		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	3		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	2		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.252109.04 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.05 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAl METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

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REMARKS:

DIRECTOR

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.05 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony [illegible] PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.06 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1445
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.06 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1445
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAl METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.07 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1600
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	1		06/14/05	1	EPA8021
Benzene	ug/L	22		06/14/05	1	EPA8021
Toluene	ug/L	7		06/14/05	1	EPA8021
Ethyl Benzene	ug/L	7		06/14/05	1	EPA8021
m + p Xylene	ug/L	25		06/14/05	2	EPA8021
o Xylene	ug/L	12		06/14/05	1	EPA8021
Xylene	ug/L	37		06/14/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/14/05	1	EPA8021
n-Propylbenzene	ug/L	2		06/14/05	1	EPA8021
135-Trimethylbenzene	ug/L	6		06/14/05	1	EPA8021
124-Trimethylbenzene	ug/L	15		06/14/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021
p-Isopropyltoluene	ug/L	3		06/14/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021
Naphthalene(v)	ug/L	110		06/14/05	10	EPA8021
tert-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.07 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1600
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	65		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	6		06/13/05	1	EPA8270
Fluorene	ug/L	3		06/13/05	1	EPA8270
Phenanthrene	ug/L	5		06/13/05	1	EPA8270
Anthracene	ug/L	1		06/13/05	1	EPA8270
Fluoranthene	ug/L	1		06/13/05	1	EPA8270
Pyrene	ug/L	1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING

377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client: Garrett Fleming
Address: 480 Forest Ave
Locust Valley NY 11560
Phone: (516) 671 8440 FAX: (516) 671 3319
Person receiving report: Anthony Vanatta
Sampled by: Same
Source: Feder Maspeth Ave
Job No.: 43956.050

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	TYPE & NUMBER OF CONTAINERS: STARS VOCs	STARS SVOCs	QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED
Water	6/9/05	1010	MW-1	3	X	X			Standard Turnaround
↓	↓	1115	MW-2	3	↓	↓			
		1200	MW-4						
		1300	MW-3						
		1330	MW-5						
		1415	MW-6						
↓	↓	1600	MW-7	↓	↓	↓			

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing: Garrett	6/9/05 1800	YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

May 11, 2005
File # 43956.051

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

2005 MAY 13 PM 5:32

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) first quarter, 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on February 24, 2005. The purpose of the sampling is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

On February 24, 2005, groundwater samples were collected from the seven monitoring wells installed at the site. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in each well. Floating product was not encountered. Three to four casing volumes of groundwater were purged from each well. MW-1, 2, and 3 were purged using a centrifugal pump with dedicated polyethylene tubing. MW-4, 5, 6, and 7 were purged using dedicated polyethylene bailers because the centrifugal pump broke down after sampling MW-3. MW-1 was purged dry after 2 well volumes and the well was allowed to recharge before sampling. Groundwater samples from the remaining wells were collected immediately after each well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, New York for analysis, in accordance with chain-of-custody protocols.

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow remains consistent with the data provided in GF's January and December 2004 reports. A site plan showing groundwater elevation contours is provided as Figure 2.

Continued...

No VOCs or PAHs were detected in MW-5 and 6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 2, 3, 4, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-7
VOC						
Benzene	0.7	6	4	6	--	16
Toluene	5	--	--	--	--	7
Ethylbenzene	5	25	--	--	--	7
Total Xylenes	5	11	--	--	--	42
Isopropyl Benzene	5	7	--	--	--	--
1,2,4-Trimethylbenzene	5	21	--	--	--	16
Naphthalene (VOC)	10	45	--	--	--	97
PAH						
Naphthalene (PAH)	10	12	--	--	--	45
Benzo (a) anthracene	0.002	--	--	7	3	--
Chrysene	0.002	--	--	7	3	--
Benzo (b) fluoranthene	0.002	--	--	6	2	--
Benzo (k) fluoranthene	0.002	--	--	6	2	--
Benzo (a) pyrene	0.002	--	--	5	3	--
Indeno (1,2,3-cd) pyrene	0.002	--	--	3	1	--

Note: Concentrations are micrograms per liter (µg/l).

VOC results from the February 2005 sampling round of MW-2 through 7 are generally consistent with the previous data with the exception of the concentration of naphthalene in MW-2 and 7. Naphthalene in MW-2 has fallen from 62 µg/kg to not detected, and in MW-7 naphthalene has fallen from 200 µg/kg to 97 µg/kg. PAH results from the February 2005 sampling round of MW-2 through 7 are also consistent with the previous data, with the exception of MW-2. In the December 2004 sample results, MW-2 had ten PAH compounds above TOGS compared to the February 2004 results, where there are no compounds above TOGS.

MW-1 was inaccessible and not sampled in December 2004, however, compared to sample results of the January 2004 sampling round, five additional VOCs were detected above TOGS. In addition, the concentration of 1,3,5-Trimethylbenzene, has fallen below TOGS, total xylenes has decreased slightly, and the concentration of naphthalene (PAH) has fallen significantly from 97 µg/kg to 12 µg/kg.

Continued...

Conclusions

The VOC data is generally consistent with that reported in the January and December 2004 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

- The five new compounds detected above TOGS in MW-1 are at concentrations only slightly exceeding TOGS. Three compounds in MW-1 with concentrations above TOGS in January 2004 have decreased significantly, with two of them now below TOGS. This data appears consistent with regional characteristic groundwater quality and does not represent a localized groundwater issue in the vicinity of this well.
- Because of their low solubility, the occurrence of higher concentrations of PAH's in MW-2 in December 2004 is likely representative of elevated turbidity levels observed. Turbidity levels in MW-2 were observed at greater than 999 NTU in groundwater samples during that sampling round. During the February 2005 sampling round, MW-2 was purged with a centrifugal pump instead of a bailer, which facilitated a sample turbidity level of 3.28 NTU.
- When comparing contaminant concentrations in site wells to groundwater flow directio appears that groundwater contamination is stagnant.

The complete analytical summary tables for February 2005, December 2004, and January 2004 sa rounds are provided as Table 1, 2, and 3 respectively for further comparison. Analytical laborat sheets for the February 2005 sampling round with chain-of-custody documentation are pro Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

Jerry Swart
Lort Dengler

4-0005-05-11 JV QTRLY Groundwater Sampling.

Conclusions

The VOC data is generally consistent with that reported in the January and December 2004 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

- The five new compounds detected above TOGS in MW-1 are at concentrations only slightly exceeding TOGS. Three compounds in MW-1 with concentrations above TOGS in January 2004 have decreased significantly, with two of them now below TOGS. This data appears consistent with regional characteristic groundwater quality and does not represent a localized groundwater issue in the vicinity of this well.

- Because of their low solubility, the occurrence of higher concentrations of PAH's in MW-2 in December 2004 is likely representative of elevated turbidity levels observed. Turbidity levels in MW-2 were observed at greater than 999 NTU in groundwater samples during that sampling round. During the February 2005 sampling round, MW-2 was purged with a centrifugal pump instead of a bailer, which facilitated a sample turbidity level of 3.28 NTU.

- When comparing contaminant concentrations in site wells to groundwater flow direction, it appears that groundwater contamination is stagnant.

The complete analytical summary tables for February 2005, December 2004, and January 2004 sampling rounds are provided as Table 1, 2, and 3 respectively for further comparison. Analytical laboratory data sheets for the February 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

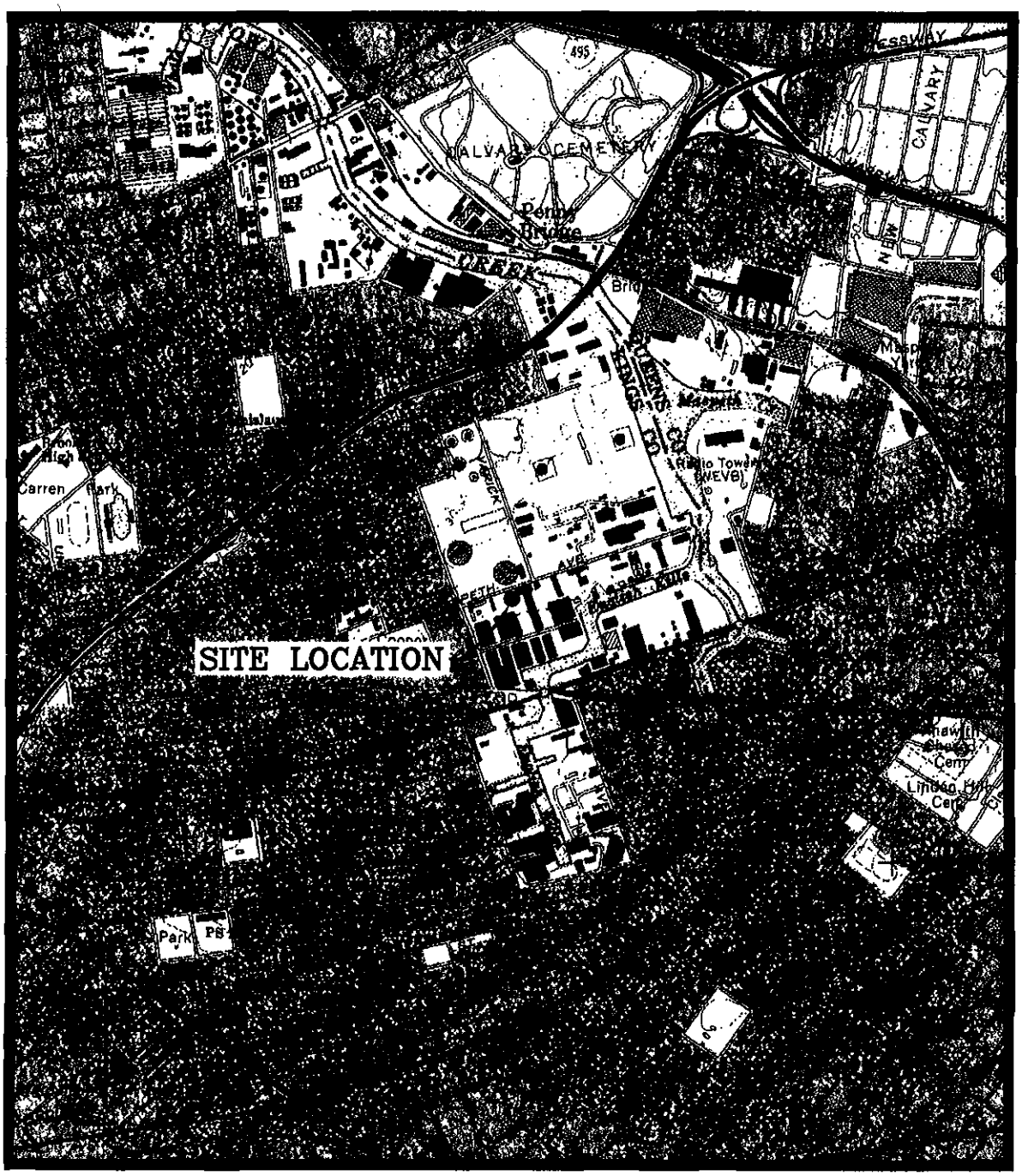
ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

cc: Jerry Swart
Robert Dengler

300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

S43956-051C
051105

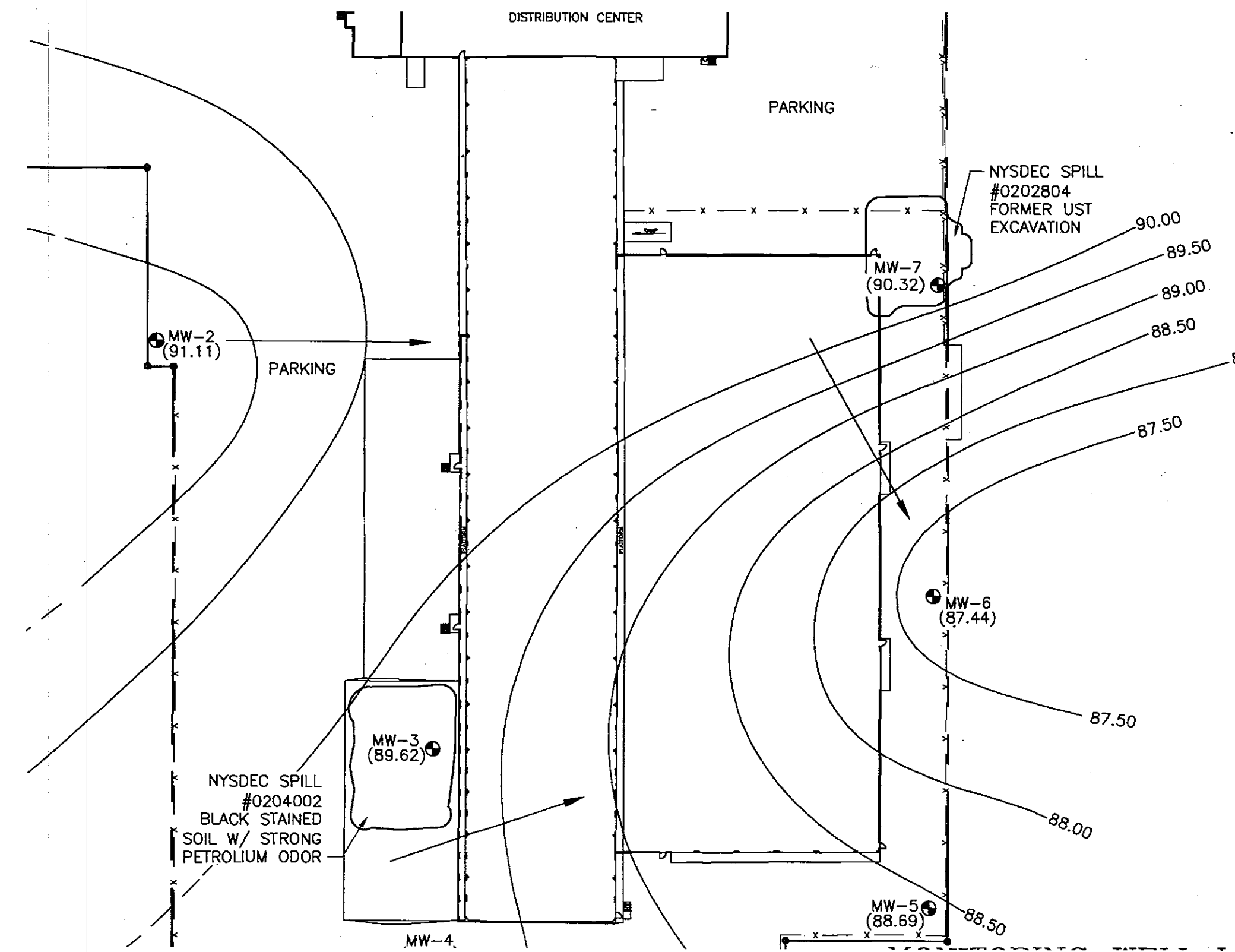

DISTRIBUTION CENTER
PARKING
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
MW-7
(90.32)
MW-2
(91.11)
PARKING
90.00
89.50
89.00
88.50
87.50
MW-6
(87.44)
87.50
MW-3
(89.62)
NYSDEC SPILL
#0204002
BLACK STAINED
SOIL W/ STRONG
PETROLIUM ODOR
88.00
MW-5
(88.69)
88.50
MW-4

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
FEBRUARY 24, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**6**	**4**	**6**	< 1	< 1	< 1	**16**
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**25**	< 1	< 1	< 1	< 1	< 1	7
M&P-Xylenes	--	5	< 2	< 2	< 2	< 2	< 2	28
O-Xylene	--	**6**	< 1	< 1	< 1	< 1	< 1	14
Total Xylenes	5	**11**	< 3	< 3	< 3	< 3	< 3	**42**
Isopropylbenzene	5	**7**	< 1	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	4	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	5
1,2,4-Trimethylbenzene	5	**21**	< 1	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	< 1	< 1	3	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**45**	6	< 1	< 1	< 1	< 1	**97**
tert-Butylbenzene	5	< 1	< 1	1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**12**	1	< 1	< 1	< 1	< 1	**45**
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	1	7	< 1	< 1	< 1	4
Fluorene	50	< 1	< 1	4	< 1	< 1	< 1	2
Phenanthrene	50	< 1	2	10	2	< 1	< 1	4
Anthracene	50	< 1	< 1	3	< 1	< 1	< 1	< 1
Fluoranthene	50	< 1	1	13	4	< 1	< 1	< 1
Pyrene	50	< 1	2	27	6	< 1	< 1	< 1
Benzo(a)anthracene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	**5**	**3**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	**3**	1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	<1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	3	1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
DECEMBER 29, 2004

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	NS	2	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	NS	**52**	**4**	< 1	< 1	< 1	**22**
Toluene	5	NS	3	< 1	< 1	< 1	< 1	**9**
Ethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	NS	< 2	< 2	< 2	< 2	< 2	20
O-Xylene	--	NS	2	< 1	< 1	< 1	< 1	12
Total Xylenes	5	NS	< 3	< 3	< 3	< 3	< 3	**32**
Isopropylbenzene	5	NS	3	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	NS	1	3	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	NS	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	NS	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	NS	**62**	< 1	2	< 1	< 1	**200**
tert-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	NS	**13**	< 1	< 1	< 1	< 1	**70**
Acenaphthylene	20	NS	7	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	NS	15	< 1	< 1	4	< 1	7
Fluorene	50	NS	19	< 1	< 1	4	< 1	4
Phenanthrene	50	NS	**93**	2	1	3	1	9
Anthracene	50	NS	29	< 1	< 1	< 1	< 1	2
Fluoranthene	50	NS	45	2	3	3	2	4
Pyrene	50	NS	**82**	3	4	3	2	4
Benzo(a)anthracene	0.002	NS	**27**	**1**	**2**	**2**	< 1	**2**
Chrysene	0.002	NS	**21**	**1**	**2**	**2**	< 1	**2**
Benzo(b)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(k)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(a)pyrene	0.002	NS	**19**	< 1	**2**	**1**	< 1	**1**
Ideno(1,2,3-cd)pyrene	0.002	NS	7	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	NS	2	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	NS	7	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit
NS	Not sampled

TABLE 3

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JANUARY 6, 2004

SAMPLE ID:	NYSDEC Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		1/6/2004	1/6/2004	1/6/2004	1/6/2004	1/6/04 & 1/9/04	1/6/2004	1/6/2004
VOCs (ppb) - EPA Method 8021								
Benzene	0.7	-	**10**	-	-	-	-	**20**
Toluene	5	-	-	-	-	-	-	2
Ethylbenzene	5	-	**7**	-	-	-	-	**7**
M&P-Xylenes	--	-	-	3	-	-	-	**23**
O-Xylene	--	21	-	2	-	-	-	12
Total Xylenes	5	**21**	-	5	-	-	-	**35**
Isopropylbenzene	5	-	3	-	-	-	-	-
n-Propylbenzene	5	-	1	-	-	-	-	1
1,3,5-Trimethylbenzene	5	**13**	1	-	-	-	-	5
1,2,4-Trimethylbenzene	5	-	2	3	-	-	-	**12**
sec-Butylbenzene	5	-	-	-	-	-	-	-
p-Isopropyltoluene	5	**1**	-	4	-	-	-	2
n-Butylbenzene	5	-	-	-	-	-	-	-
Naphthalene (VOC)	10	-	**93**	-	-	-	-	**52**
tert-Butylbenzene	5	-	-	-	-	-	-	-
Methyl tert-butyl ether	10	1	-	-	-	-	-	2
PAHs (ppb) - EPA Method 8270								
Acenaphthene	20	-	6	2	-	-	-	3
Fluorene	50	-	6	1	-	-	-	2
Phenanthrene	50	-	12	2	-	-	-	4
Anthracene	50	-	4	-	-	-	-	-
Fluoranthene	50	-	4	-	-	-	-	-
Pyrene	50	-	4	-	-	-	-	-
Benzo(a)anthracene	0.002	-	**1**	-	-	-	-	-
Chrysene	0.002	-	**1**	-	-	-	-	-
Benzo(b)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(a)pyrene	0.002	-	-	-	-	-	-	-
Ideno(1,2,3-cd)pyrene	0.002	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	50	-	-	-	-	-	-	-
Benzo(ghi)perylene	5	-	-	-	-	-	-	-
Naphthalene (PAH)	10	**97**	**43**	3	-	-	-	**28**

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.01 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1115

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	3		02/25/05	1	EPA8021
Benzene	ug/L	4		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,3,5-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,2,4-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	6		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1115
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	2		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	1		03/01/05	1	EPA8270
Pyrene	ug/L	2		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

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LAB NO.250652.02 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1130
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
enzene	ug/L	6		02/25/05	1	EPA8021
oluene	ug/L	< 1		02/25/05	1	EPA8021
thyl Benzene	ug/L	25		02/25/05	1	EPA8021
+ p Xylene	ug/L	5		02/25/05	2	EPA8021
Xylene	ug/L	6		02/25/05	1	EPA8021
ylene	ug/L	11		02/25/05	3	EPA8021
sopropylbenzene	ug/L	7		02/25/05	1	EPA8021
-Propylbenzene	ug/L	2		02/25/05	1	EPA8021
35-Trimethylbenzene	ug/L	2		02/25/05	1	EPA8021
24-Trimethylbenzene	ug/L	21		02/25/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
aphthalene(v)	ug/L	45		02/25/05	1	EPA8021
ert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.02 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1130
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	12		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

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LAB NO.250652.03 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

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LAB NO.250652.03 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	2		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	4		03/01/05	1	EPA8270
Pyrene	ug/L	6		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	3		03/01/05	1	EPA8270
Chrysene	ug/L	3		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	2	#	03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	2	#	03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	3		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 4 ug/L, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.04 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-3

NALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
enzene	ug/L	6		02/25/05	1	EPA8021
oluene	ug/L	< 1		02/25/05	1	EPA8021
thyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
+ p Xylene	ug/L	< 2		02/25/05	2	EPA8021
Xylene	ug/L	< 1		02/25/05	1	EPA8021
ylene	ug/L	< 3		02/25/05	3	EPA8021
sopropylbenzene	ug/L	5		02/25/05	1	EPA8021
-Propylbenzene	ug/L	4		02/25/05	1	EPA8021
35-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
24-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
ec-Butylbenzene	ug/L	3		02/25/05	1	EPA8021
-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
aphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
ert-Butylbenzene	ug/L	1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.04 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1330

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	7		03/01/05	1	EPA8270
Fluorene	ug/L	4		03/01/05	1	EPA8270
Phenanthrene	ug/L	10		03/01/05	1	EPA8270
Anthracene	ug/L	3		03/01/05	1	EPA8270
Fluoranthene	ug/L	13		03/01/05	1	EPA8270
Pyrene	ug/L	27	*	03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	7	*	03/01/05	1	EPA8270
Chrysene	ug/L	7	*	03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	6	#**	03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	6	#**	03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	5	**	03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	3	**	03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1	**	03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	3	**	03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =12 ug/L, unable to separate isomers.
*,**Estimated due to low internal standard, *39% & **28%.
Low recovery due to interference. QC limit is 50%.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.05 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1430

MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,3,5-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,2,4-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.250652.05 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1430
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.06 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1500
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,3,5-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
1,2,4-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.06 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1500
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
laphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
cenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
cenaphthene	ug/L	< 1		03/01/05	1	EPA8270
luorene	ug/L	< 1		03/01/05	1	EPA8270
henanthrene	ug/L	< 1		03/01/05	1	EPA8270
nthracene	ug/L	< 1		03/01/05	1	EPA8270
luoranthene	ug/L	< 1		03/01/05	1	EPA8270
yrene	ug/L	< 1		03/01/05	1	EPA8270
enzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
hrysene	ug/L	< 1		03/01/05	1	EPA8270
enzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
enzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
enzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
ndeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
ibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
enzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.07 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1545
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
lenzene	ug/L	16		02/25/05	1	EPA8021
oluene	ug/L	7		02/25/05	1	EPA8021
thyl Benzene	ug/L	7		02/25/05	1	EPA8021
+ p Xylene	ug/L	28		02/25/05	2	EPA8021
Xylene	ug/L	14		02/25/05	1	EPA8021
ylene	ug/L	42		02/25/05	3	EPA8021
sopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
-Propylbenzene	ug/L	2		02/25/05	1	EPA8021
35-Trimethylbenzene	ug/L	5		02/25/05	1	EPA8021
24-Trimethylbenzene	ug/L	16		02/25/05	1	EPA8021
ec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
-Isopropyltoluene	ug/L	< 3		02/25/05	1	EPA8021
-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
aphthalene(v)	ug/L	97		02/25/05	10	EPA8021
ert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

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LAB NO.250652.07 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1545
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	45		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	4		03/01/05	1	EPA8270
Fluorene	ug/L	2		03/01/05	1	EPA8270
Phenanthrene	ug/L	4		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4218 NYSDOH ID # 10320

ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING
377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client:
Address:
Phone: FAX:
Person receiving report:
Sampled by:
Source:
Job No.:

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	TYPE & NUMBER OF CONTAINERS	QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED

Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*	Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*	Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:

Gannett Fleming
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AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

October 24, 2005
File # 43956.051

Andre Obligado
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: 3rd Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Obligado:

This letter report documents Gannett Fleming's (GF's) third quarter 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York. This letter report also concludes four sampling rounds performed to monitor groundwater quality (December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005). The purpose of the groundwater monitoring is to evaluate petroleum impacts in groundwater relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

September 28, 2005 Groundwater Sampling

On September 28, 2005, groundwater samples were collected from six of the seven monitoring wells installed at the site. Well MW-2 was covered by stockpiled concrete jersey barriers and therefore inaccessible. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in wells MW-1 through MW-7, excluding MW-2. No floating product was observed in any of the wells. Prior to sampling, three to four casing volumes of groundwater were purged from each well using a centrifugal pump with dedicated polyethylene tubing. At the completion of each purged casing volume, pH, conductivity, temperature, and turbidity were measured and recorded in field sampling logs. Groundwater samples were collected immediately after the well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc.,

North Babylon, New York for analysis. Samples were handled in accordance with chain-of-custody protocols.

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow remains consistent with the previous data collected in June 2005. A site plan showing groundwater elevation contours is provided as Figure 2.

Neither VOCs nor PAHs were detected in MW-4, 5, and 6. MW-2 was not sampled. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 3, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-3	MW-7
VOC				
Benzene	0.7	28	3	34
Toluene	5	--	--	6
Ethylbenzene	5	28	--	--
Total Xylenes	5	10	--	32
Isopropyl Benzene	5	12	--	--
1,3,5-Trimethylbenzene	5	--	--	--
1,2,4-Trimethylbenzene	5	16	--	14
Naphthalene (VOC)	10	34	--	150
PAH				
Naphthalene (PAH)	10	17	--	95

Note: Concentrations are micrograms per liter (µg/l).

VOC and PAH analytical results from the September 2005 sampling round of MW-1 through 7 (excluding MW-2) are consistent with the data from the June 2005 sampling round. The largest variations in concentrations are benzene in MW-1, which increased by 18 parts-per-billion (ppb) in September 2005 and naphthalene in MW-7, which increased by 40 ppb in September 2005.

Conclusions

The VOC and PAH data is consistent with that reported in the June 2005 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

Continued . . .

- The groundwater data collected in site wells indicate groundwater contamination is stagnant. Groundwater flow and quality have remained consistent throughout the monitoring program.

- Although MW-2 was not accessed during the September 2005 sampling round, MW-2 sample results from the February and June 2005 sampling rounds are consistent. Groundwater quality over the entire site has remained unchanged during the monitoring program, therefore it is likely that VOC and PAH concentrations in MW-2 have not significantly fluctuated since the June 2005 sampling round.

The complete analytical summary table for the December 2004, February, June and September 2005 sampling rounds is provided as Table 1 for further comparison. Analytical laboratory data sheets for the September 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Groundwater Investigation Final Conclusions

Gannett Fleming conducted four sampling rounds on December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005. Upon each sampling round, groundwater VOC and PAH concentrations were monitored and depth to water measurements were collected to gauge groundwater flow direction in each of the seven wells. The analytical results from each sampling round were evaluated against previously collected data from the site dating back to January 2004 to identify trends or variations in groundwater quality and flow. This information would determine if the petroleum contamination originated on-site or emanated from regional impacts and indicate migration of contaminants off-site.

Results

Groundwater elevation measurements throughout the four quarters consistently indicated that groundwater is flowing from the northwest and southwest and converges in an easterly direction. A site plan showing well locations and groundwater elevation contours is provided as Figure 2. :

Based on the data collected during this investigation, it appears that groundwater contamination impacts at the site are stagnant. Fluctuations in VOC and PAH concentrations throughout the investigation are consistent with seasonal variations. No significant changes have been observed to the analytical characteristics of the groundwater within each well. Furthermore, VOCs and PAHs were not detected above TOGS in the most down gradient well, MW-6, and in down gradient well MW-5 during the entire groundwater investigation.

The stagnant groundwater contaminant plume indicated groundwater impacts are representative of regional groundwater quality. If the UST and historic petroleum storage area were a source of

Continued . . .

groundwater contamination, the removal of impacted soil from these areas should have shown evidence of an improvement in groundwater quality. This was not the case. Therefore, GF requests that NYSDEC Spill #0202804 and #0204002 be closed.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Encl.

cc: Jerry Swart, Fed Ex Ground
Robert Dengler, Fed Ex Ground

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TABLES

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	NA	< 1	< 1	2	2	3	3	NA
Benzene	0.7	NA	**6**	**10**	**28**	**52**	**4**	**13**	NA
Toluene	5	NA	< 1	3	< 1	3	< 1	< 1	NA
Ethylbenzene	5	NA	**25**	**22**	**28**	3	< 1	2	NA
M&P-Xylenes	--	NA	5	7	5	< 2	< 2	< 2	NA
O-Xylene	--	NA	6	8	5	2	< 1	< 1	NA
Total Xylenes	5	NA	**11**	**15**	**10**	< 3	< 3	< 3	NA
Isopropylbenzene	5	NA	**7**	**7**	**12**	3	< 1	1	NA
n-Propylbenzene	5	NA	2	2	2	1	< 1	< 1	NA
1,3,5-Trimethylbenzene	5	NA	2	2	2	< 1	< 1	< 1	NA
1,2,4-Trimethylbenzene	5	NA	**21**	**27**	**16**	3	< 1	< 1	NA
sec-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
p-Isopropyltoluene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
n-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Naphthalene (VOC)	10	NA	**45**	**53**	**34**	**62**	6	10	NA
tert-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Total VOCs	--	NA	119	141	144	131	13	29	NA
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	NA	**12**	**25**	**17**	**13**	1	5	NA
Acenaphthylene	20	NA	< 1	< 1	< 1	7	< 1	< 1	NA
Acenaphthene	20	NA	< 1	< 1	< 1	15	1	3	NA
Fluorene	50	NA	< 1	< 1	< 1	19	< 1	2	NA
Phenanthrene	50	NA	< 1	< 1	< 1	**93**	2	5	NA
Anthracene	50	NA	< 1	< 1	< 1	29	< 1	2	NA
Fluoranthene	50	NA	< 1	< 1	< 1	45	1	2	NA
Pyrene	50	NA	< 1	< 1	< 1	**82**	2	3	NA
Benzo(a)anthracene	0.002	NA	< 1	< 1	< 1	**27**	< 1	< 1	NA
Chrysene	0.002	NA	< 1	< 1	< 1	**21**	< 1	< 1	NA
Benzo(b)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(k)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(a)pyrene	0.002	NA	< 1	< 1	< 1	**19**	< 1	< 1	NA
Ideno(1,2,3-cd)pyrene	0.002	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Dibenzo(a,h)anthracene	50	NA	< 1	< 1	< 1	2	< 1	< 1	NA
Benzo(ghi)perylene	5	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Total PAHs	--	NA	12	25	17	422	7	22	NA

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**4**	**6**	**7**	**3**	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	4	5	4	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	3	4	3	1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	2	3	2	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	13	19	16	10	2	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	7	< 1	2	< 1	< 1	< 1	< 1
Fluorene	50	< 1	4	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	2	10	< 1	< 1	1	2	< 1	< 1
Anthracene	50	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	2	13	< 1	< 1	3	4	< 1	< 1
Pyrene	50	3	27	< 1	< 1	4	6	< 1	< 1
Benzo(a)anthracene	0.002	**1**	**7**	< 1	< 1	2	**3**	< 1	< 1
Chrysene	0.002	**1**	**7**	< 1	< 1	**2**	**3**	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(a)pyrene	0.002	< 1	**5**	< 1	< 1	**2**	**3**	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	**3**	< 1	< 1	< 1	**1**	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	3	< 1	< 1	< 1	1	< 1	< 1
Total PAHs	--	9	101	1	2	17	27	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	<	<	<	<	<	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	50	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	3	< 1	< 1	< 1	1	< 1	< 1	< 1
Anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Pyrene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total PAHs	--	25	<	<	<	5	<	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-7	MW-7	MW-7	MW-7
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260					
Methyl tert-butyl ether	10	< 1	< 1	1	< 1
Benzene	0.7	**22**	**16**	**22**	**34**
Toluene	5	**9**	**7**	**7**	**6**
Ethylbenzene	5	**7**	**7**	**7**	5
M&P-Xylenes	--	20	28	25	21
O-Xylene	--	12	14	12	11
Total Xylenes	5	**32**	**42**	**37**	**32**
Isopropylbenzene	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	2	2	< 1
1,3,5-Trimethylbenzene	5	**6**	5	**6**	5
1,2,4-Trimethylbenzene	5	**16**	**16**	**15**	**14**
sec-Butylbenzene	5	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	3	< 3	3	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**200**	**97**	**110**	**150**
tert-Butylbenzene	5	< 1	< 1	< 1	< 1
Total VOCs	--	295	192	210	278
PAHs (ppb) - EPA Method 8270					
Naphthalene (PAH)	10	**70**	**45**	**65**	**95**
Acenaphthylene	20	< 1	< 1	< 1	< 1
Acenaphthene	20	7	**4**	6	8
Fluorene	50	4	2	3	5
Phenanthrene	50	9	4	5	8
Anthracene	50	2	< 1	1	1
Fluoranthene	50	4	< 1	1	1
Pyrene	50	4	< 1	1	1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1
Total PAHs	--	108	55	82	119

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

FIGURES

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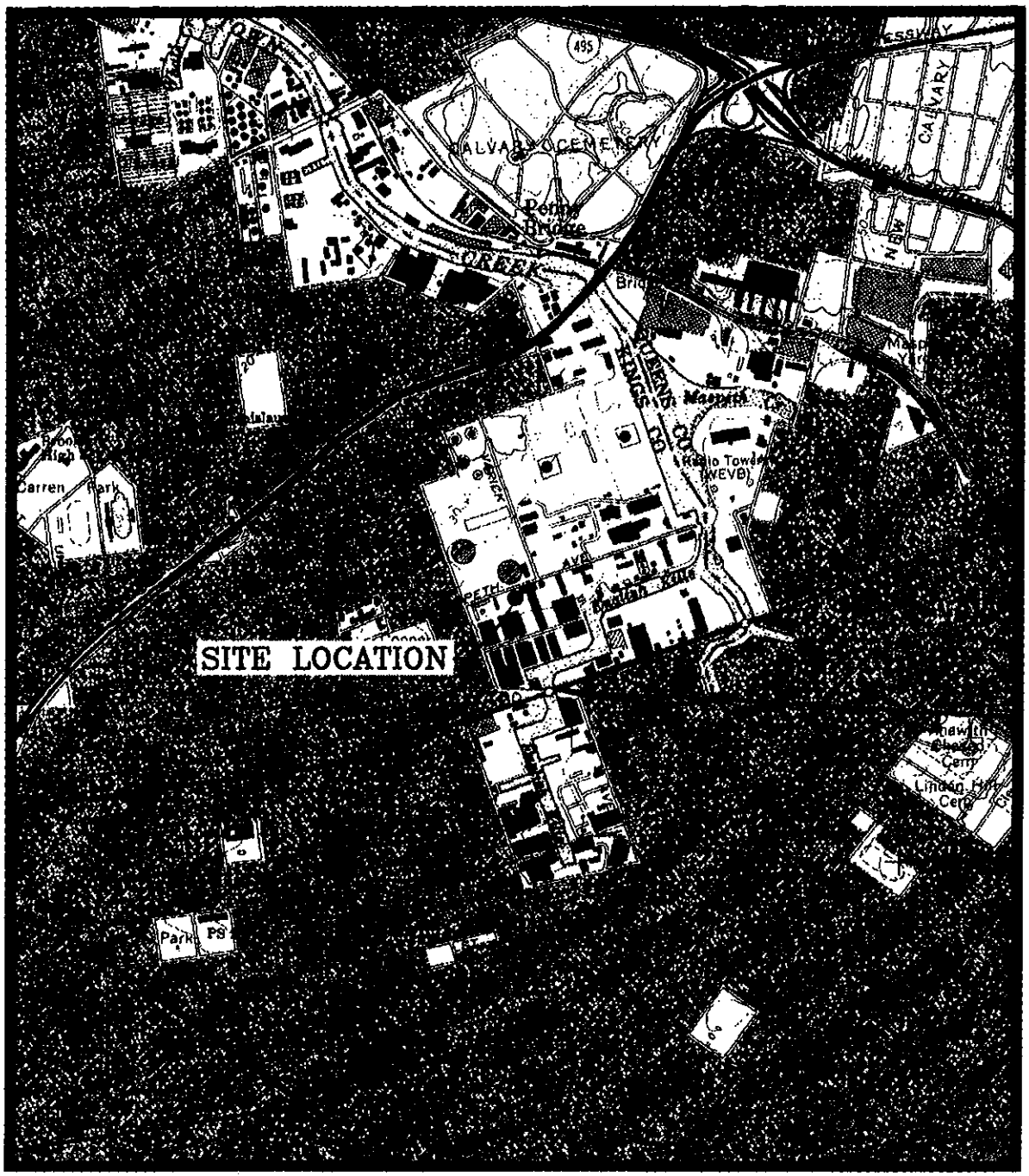
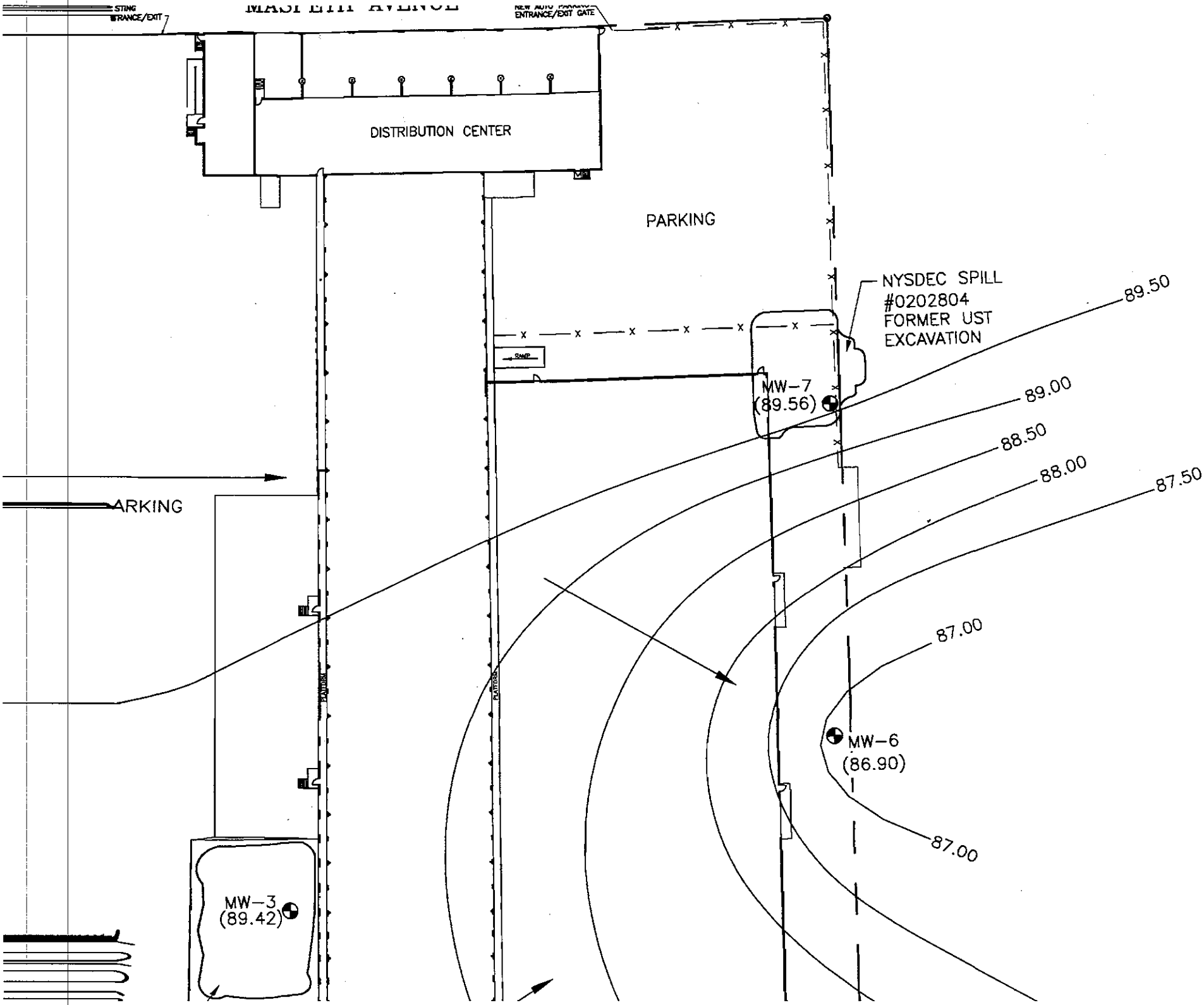
300 MASPETH AVENUE
BROOKLYN, NEW YORK

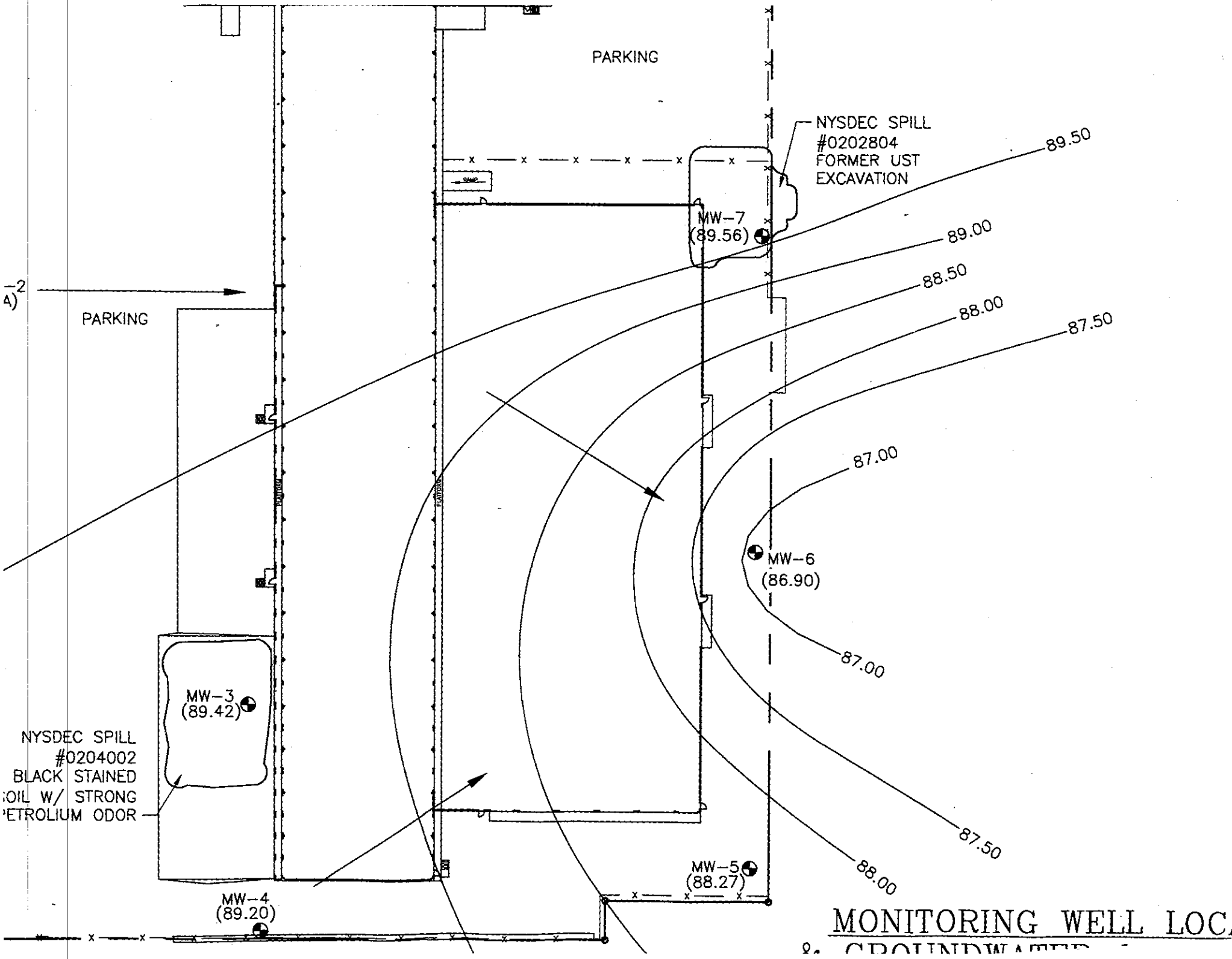


SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP


DISTRIBUTION CENTER
PARKING
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
MW-7
(89.56)
MW-6
(86.90)
MW-3
(89.42)
89.50
89.00
88.50
88.00
87.50
87.00
87.00
ARKING



MONITORING WELL LOCA

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
Phone: (718) 482-4651 FAX: (718) 482-4098
Website: www.dec.state.ny.us

Denise M. Sheehan
Commissioner

December 22, 2005

Mr. Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, Pa. 15108

RE: Spill # 0202804 and #0204002
300 Maspeth Avenue
Brooklyn, NY

Dear Mr. Swart,

Based on the submitted documentation provided to date, no further investigation or response will be required concerning this site, with regard to the spill number referenced above. The NYS DEC spill numbers **0202804 and 0204002** have been inactivated.

The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:

I. The off-site migration of petroleum contaminants that was not addressed by this evaluation.
II. Environmental conditions related to the Site which were unknown to the Department at the time of this approval.
III. Information received, in whole or part, after the Department's approval for inactivation, which indicates that inactivation decision and/or corrective action is not sufficiently protective of human health for the reasonably anticipated use of the site.
IV. Fraud in obtaining this approval for inactivation.

Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future property transactions, refinancing, etc. The Department's files regarding this release may not be maintained indefinitely.

Sincerely,

Andre Obligado
Engineering Geologist
NYSDEC Region 2

cc: J. Sun (DEC), K. Tang (DEC), M. Bohms (Gannet Fleming),

New York State Department of Environmental Conservation
Petroleum Remediation Unit
Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, New York 11101-5407
Phone: (718)482-6364 • **FAX:** (718)482-6358
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

October 18, 2004

Mr. Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, Pa. 15108
Fax: (412) 859-5450

Re: 300 Maspeth Avenue, Brooklyn, NY
Spill #: 0202804

Dear Mr. Swart:

The New York State Department of Environmental Conservation (the Department) has received and reviewed the Site Investigation Report dated June 8, 2004 submitted by Gannett Fleming for the above referenced site. The Department has reviewed the Plan and requires the following::

1. *Quarterly GroundWater Sampling:* As per DER-10 Technical Guidance for Site Investigation and Remediation Section 6.3.c.4.i "Sampling should be conducted on a quarterly basis at monitoring wells associated with plume management monitoring, for a minimum of eight quarters.". In accordance the Department is requiring one full year of quarterly groundwater monitoring. Upon completion of the year of monitoring, a no further action request may be submitted to the Department.

Please notify the Department upon scheduling an investigation date. If you wish to discuss this letter, please call my office at (718) 482-6364.

Sincerely,

Jeffrey Vought

Jeffrey Vought
Engineering Geologist
Environmental Remediation Division
Region 2

cc: M. Bohms (Gannett Fleming)

New York State Department of Environmental Conservation
Petroleum Remediation, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-6364 • **FAX:** (718) 482-6358
E-Mail: jbvought@gw.dec.state.ny.us



Erin M. Crotty
Commissioner

FAX

To: M Bohms
Fax #: 212-968-6684
Pages: 2
From: Vought
Subject: 300 Maspeth
Date: 10/18/04

Hardcopy to Swart in mail.
See you tommorrow at West
End at 10am.

Jeff

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

October 24, 2005
File # 43956.051

Andre Obligado
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: 3rd Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Obligado:

This letter report documents Gannett Fleming's (GF's) third quarter 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York. This letter report also concludes four sampling rounds performed to monitor groundwater quality (December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005). The purpose of the groundwater monitoring is to evaluate petroleum impacts in groundwater relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

September 28, 2005 Groundwater Sampling

On September 28, 2005, groundwater samples were collected from six of the seven monitoring wells installed at the site. Well MW-2 was covered by stockpiled concrete jersey barriers and therefore inaccessible. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in wells MW-1 through MW-7, excluding MW-2. No floating product was observed in any of the wells. Prior to sampling, three to four casing volumes of groundwater were purged from each well using a centrifugal pump with dedicated polyethylene tubing. At the completion of each purged casing volume, pH, conductivity, temperature, and turbidity were measured and recorded in field sampling logs. Groundwater samples were collected immediately after the well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc.,

North Babylon, New York for analysis. Samples were handled in accordance with chain-of-custody protocols.

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow remains consistent with the previous data collected in June 2005. A site plan showing groundwater elevation contours is provided as Figure 2.

Neither VOCs nor PAHs were detected in MW-4, 5, and 6. MW-2 was not sampled. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 3, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-3	MW-7
VOC				
Benzene	0.7	28	3	34
Toluene	5	--	--	6
Ethylbenzene	5	28	--	--
Total Xylenes	5	10	--	32
Isopropyl Benzene	5	12	--	--
1,3,5-Trimethylbenzene	5	--	--	--
1,2,4-Trimethylbenzene	5	16	--	14
Naphthalene (VOC)	10	34	--	150
PAH				
Naphthalene (PAH)	10	17	--	95

Note: Concentrations are micrograms per liter (µg/l).

VOC and PAH analytical results from the September 2005 sampling round of MW-1 through 7 (excluding MW-2) are consistent with the data from the June 2005 sampling round. The largest variations in concentrations are benzene in MW-1, which increased by 18 parts-per-billion (ppb) in September 2005 and naphthalene in MW-7, which increased by 40 ppb in September 2005.

Conclusions

The VOC and PAH data is consistent with that reported in the June 2005 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

Continued . . .

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- The groundwater data collected in site wells indicate groundwater contamination is stagnant. Groundwater flow and quality have remained consistent throughout the monitoring program.

- Although MW-2 was not accessed during the September 2005 sampling round, MW-2 sample results from the February and June 2005 sampling rounds are consistent. Groundwater quality over the entire site has remained unchanged during the monitoring program, therefore it is likely that VOC and PAH concentrations in MW-2 have not significantly fluctuated since the June 2005 sampling round.

The complete analytical summary table for the December 2004, February, June and September 2005 sampling rounds is provided as Table 1 for further comparison. Analytical laboratory data sheets for the September 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Groundwater Investigation Final Conclusions

Gannett Fleming conducted four sampling rounds on December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005. Upon each sampling round, groundwater VOC and PAH concentrations were monitored and depth to water measurements were collected to gauge groundwater flow direction in each of the seven wells. The analytical results from each sampling round were evaluated against previously collected data from the site dating back to January 2004 to identify trends or variations in groundwater quality and flow. This information would determine if the petroleum contamination originated on-site or emanated from regional impacts and indicate migration of contaminants off-site.

Results

Groundwater elevation measurements throughout the four quarters consistently indicated that groundwater is flowing from the northwest and southwest and converges in an easterly direction. A site plan showing well locations and groundwater elevation contours is provided as Figure 2. :

Based on the data collected during this investigation, it appears that groundwater contamination impacts at the site are stagnant. Fluctuations in VOC and PAH concentrations throughout the investigation are consistent with seasonal variations. No significant changes have been observed to the analytical characteristics of the groundwater within each well. Furthermore, VOCs and PAHs were not detected above TOGS in the most down gradient well, MW-6, and in down gradient well MW-5 during the entire groundwater investigation.

The stagnant groundwater contaminant plume indicated groundwater impacts are representative of regional groundwater quality. If the UST and historic petroleum storage area were a source of

Continued . . .

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groundwater contamination, the removal of impacted soil from these areas should have shown evidence of an improvement in groundwater quality. This was not the case. Therefore, GF requests that NYSDEC Spill #0202804 and #0204002 be closed.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Encl.

cc: Jerry Swart, Fed Ex Ground
Robert Dengler, Fed Ex Ground

R:\PROJECTS\43000\43900\43956 FedEx Ground\050 Maspeth Ave\9_05\3rd Quarter Letter.doc

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TABLES

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TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	NA	< 1	< 1	2	2	3	3	NA
Benzene	0.7	NA	**6**	**10**	**28**	**52**	**4**	**13**	NA
Toluene	5	NA	< 1	3	< 1	3	< 1	< 1	NA
Ethylbenzene	5	NA	**25**	**22**	**28**	3	< 1	2	NA
M&P-Xylenes	--	NA	5	7	5	< 2	< 2	< 2	NA
O-Xylene	--	NA	6	8	5	2	< 1	< 1	NA
Total Xylenes	5	NA	**11**	**15**	**10**	< 3	< 3	< 3	NA
Isopropylbenzene	5	NA	**7**	**7**	**12**	3	< 1	1	NA
n-Propylbenzene	5	NA	2	2	2	1	< 1	< 1	NA
1,3,5-Trimethylbenzene	5	NA	2	2	2	< 1	< 1	< 1	NA
1,2,4-Trimethylbenzene	5	NA	**21**	**27**	**16**	3	< 1	< 1	NA
sec-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
p-Isopropyltoluene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
n-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Naphthalene (VOC)	10	NA	**45**	**53**	**34**	**62**	6	10	NA
tert-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Total VOCs	--	NA	119	141	144	131	13	29	NA
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	NA	**12**	**25**	**17**	**13**	1	5	NA
Acenaphthylene	20	NA	< 1	< 1	< 1	7	< 1	< 1	NA
Acenaphthene	20	NA	< 1	< 1	< 1	15	1	3	NA
Fluorene	50	NA	< 1	< 1	< 1	19	< 1	2	NA
Phenanthrene	50	NA	< 1	< 1	< 1	**93**	2	5	NA
Anthracene	50	NA	< 1	< 1	< 1	29	< 1	2	NA
Fluoranthene	50	NA	< 1	< 1	< 1	45	1	2	NA
Pyrene	50	NA	< 1	< 1	< 1	**82**	2	3	NA
Benzo(a)anthracene	0.002	NA	< 1	< 1	< 1	**27**	< 1	< 1	NA
Chrysene	0.002	NA	< 1	< 1	< 1	**21**	< 1	< 1	NA
Benzo(b)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(k)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(a)pyrene	0.002	NA	< 1	< 1	< 1	**19**	< 1	< 1	NA
Ideno(1,2,3-cd)pyrene	0.002	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Dibenzo(a,h)anthracene	50	NA	< 1	< 1	< 1	2	< 1	< 1	NA
Benzo(ghi)perylene	5	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Total PAHs	--	NA	12	25	17	422	7	22	NA

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**4**	**6**	**7**	**3**	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	4	5	4	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	3	4	3	1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	2	3	2	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	13	19	16	10	2	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	7	< 1	2	< 1	< 1	< 1	< 1
Fluorene	50	< 1	4	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	2	10	< 1	< 1	1	2	< 1	< 1
Anthracene	50	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	2	13	< 1	< 1	3	4	< 1	< 1
Pyrene	50	3	27	< 1	< 1	4	6	< 1	< 1
Benzo(a)anthracene	0.002	**1**	**7**	< 1	< 1	**2**	**3**	< 1	< 1
Chrysene	0.002	**1**	**7**	< 1	< 1	**2**	**3**	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(a)pyrene	0.002	< 1	**5**	< 1	< 1	**2**	**3**	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	**3**	< 1	< 1	< 1	**1**	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	3	< 1	< 1	< 1	1	< 1	< 1
Total PAHs	--	9	101	1	2	17	27	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	<	<	<	<	<	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	50	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	3	< 1	< 1	< 1	1	< 1	< 1	< 1
Anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Pyrene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total PAHs	--	25	<	<	<	5	<	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-7	MW-7	MW-7	MW-7
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260					
Methyl tert-butyl ether	10	< 1	< 1	1	< 1
Benzene	0.7	**22**	**16**	**22**	**34**
Toluene	5	**9**	**7**	**7**	**6**
Ethylbenzene	5	**7**	**7**	**7**	5
M&P-Xylenes	--	20	28	25	21
O-Xylene	--	12	14	12	11
Total Xylenes	5	**32**	**42**	**37**	**32**
Isopropylbenzene	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	2	2	< 1
1,3,5-Trimethylbenzene	5	**6**	5	**6**	5
1,2,4-Trimethylbenzene	5	**16**	**16**	**15**	**14**
sec-Butylbenzene	5	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	3	< 3	3	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**200**	**97**	**110**	**150**
tert-Butylbenzene	5	< 1	< 1	< 1	< 1
Total VOCs	--	295	192	210	278
PAHs (ppb) - EPA Method 8270					
Naphthalene (PAH)	10	**70**	**45**	**65**	**95**
Acenaphthylene	20	< 1	< 1	< 1	< 1
Acenaphthene	20	7	4	6	8
Fluorene	50	4	2	3	5
Phenanthrene	50	9	4	5	8
Anthracene	50	2	< 1	1	1
Fluoranthene	50	4	< 1	1	1
Pyrene	50	4	< 1	1	1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1
Total PAHs	--	108	55	82	119

NOTES:

Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY

Results reported on a dry weight basis to 2 significant figures

Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

FIGURES

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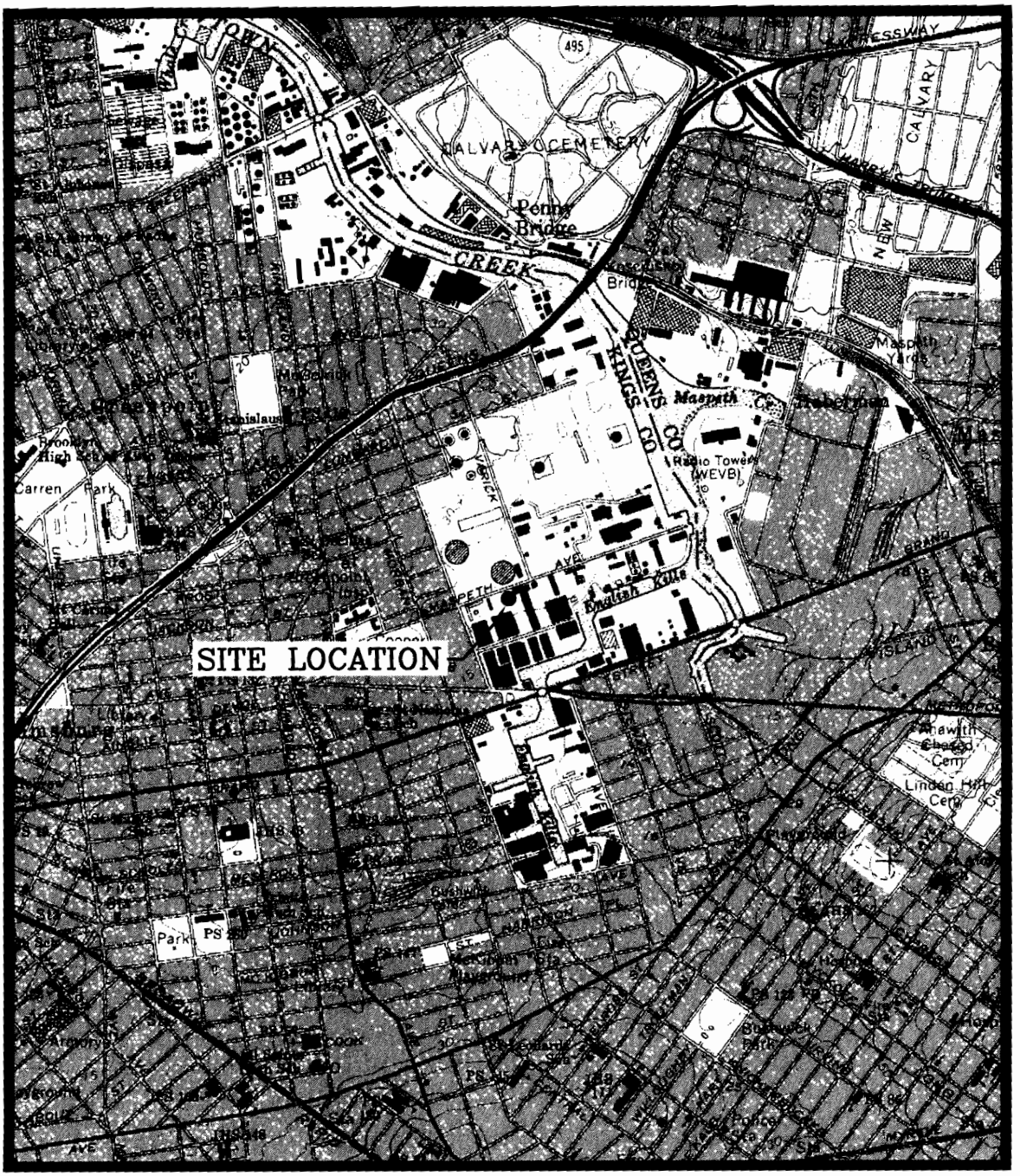
Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

BROOKLYN, NEW YORK



SCALE 1"=2000'

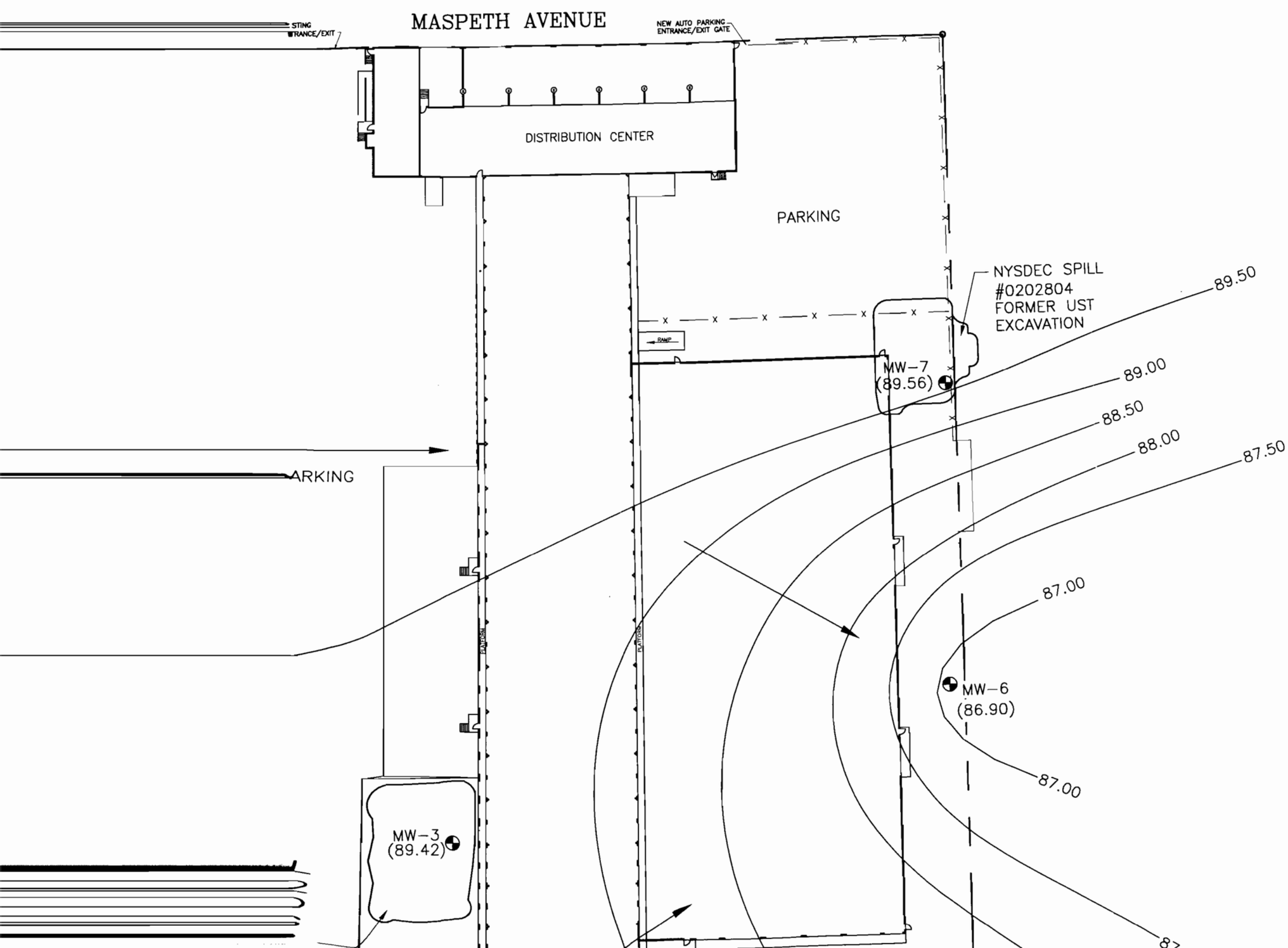
U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

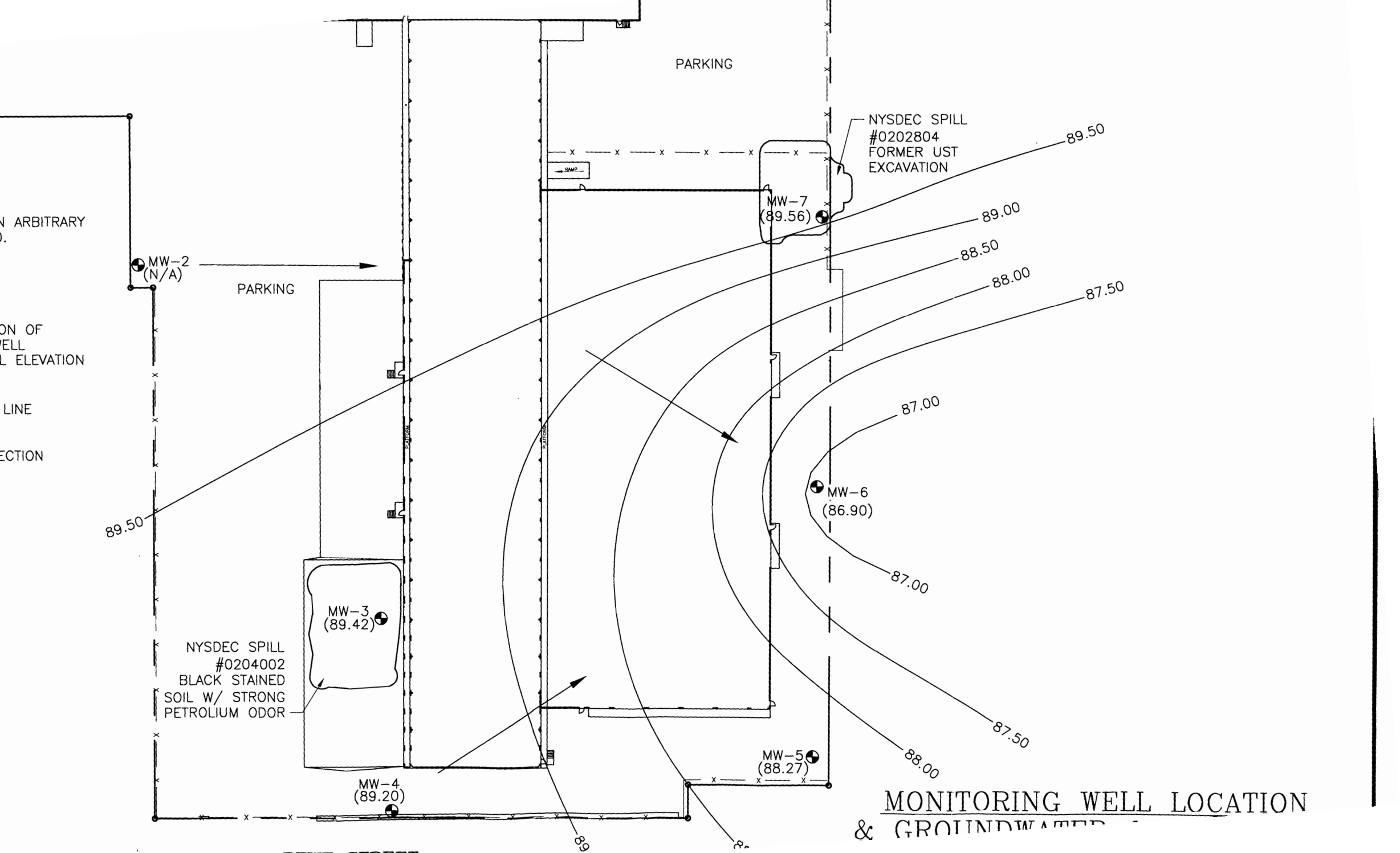
LOCATION MAP

956-051
905

Gannett Fleming

FIGURE 2




PARKING
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
MW-7
(89.56)
89.50
89.00
88.50
88.00
87.50
87.00
MW-2
(N/A)
PARKING
MW-6
(86.90)
87.00
87.50
88.00
MW-3
(89.42)
NYSDEC SPILL
#0204002
BLACK STAINED
SOIL W/ STRONG
PETROLIUM ODOR
MW-5
(88.27)
MW-4
(89.20)
89.50
N ARBITRARY
.
ON OF
VELL
L ELEVATION
LINE
ECTION
MONITORING WELL LOCATION
& GROUNDWATER

New York State Department of Environmental Conservation
Petroleum Remediation Unit
Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, New York 11101-5407
Phone: (718)482-6364 • **FAX:** (718)482-6358
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

October 18, 2004

Mr. Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, Pa. 15108
Fax: (412) 859-5450

Re: 300 Maspeth Avenue, Brooklyn, NY
Spill #: 0202804

Dear Mr. Swart:

The New York State Department of Environmental Conservation (the Department) has received and reviewed the Site Investigation Report dated June 8, 2004 submitted by Gannett Fleming for the above referenced site. The Department has reviewed the Plan and requires the following::

1. *Quarterly GroundWater Sampling:* As per DER-10 Technical Guidance for Site Investigation and Remediation Section 6.3.c.4.i "Sampling should be conducted on a quarterly basis at monitoring wells associated with plume management monitoring, for a minimum of eight quarters.". In accordance the Department is requiring one full year of quarterly groundwater monitoring. Upon completion of the year of monitoring, a no further action request may be submitted to the Department.

Please notify the Department upon scheduling an investigation date. If you wish to discuss this letter, please call my office at (718) 482-6364.

Sincerely,

Jeffrey Vought

Jeffrey Vought
Engineering Geologist
Environmental Remediation Division
Region 2

cc: M. Bohms (Gannett Fleming)

New York State Department of Environmental Conservation
Petroleum Remediation, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-6364 • **FAX:** (718) 482-6358
E-Mail: jbvought@gw.dec.state.ny.us

Erin M. Crotty
Commissioner

FAX

To: M Bohms
Fax #: 212-968-6684
Pages: 2
From: Vought
Subject: 300 Maspeth
Date: 10/18/04

Hardcopy to Swart in mail.
See you tommorrow at West End at 10am.

Jeff

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

October 24, 2005
File # 43956.051

Andre Obligado
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: 3rd Quarter 2005 Groundwater Sampling and Groundwater Investigation Final Report
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Obligado:

This letter report documents Gannett Fleming's (GF's) third quarter 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York. This letter report also concludes four sampling rounds performed to monitor groundwater quality (December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005). The purpose of the groundwater monitoring is to evaluate petroleum impacts in groundwater relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

September 28, 2005 Groundwater Sampling

On September 28, 2005, groundwater samples were collected from six of the seven monitoring wells installed at the site. Well MW-2 was covered by stockpiled concrete jersey barriers and therefore inaccessible. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in wells MW-1 through MW-7, excluding MW-2. No floating product was observed in any of the wells. Prior to sampling, three to four casing volumes of groundwater were purged from each well using a centrifugal pump with dedicated polyethylene tubing. At the completion of each purged casing volume, pH, conductivity, temperature, and turbidity were measured and recorded in field sampling logs. Groundwater samples were collected immediately after the well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc.,

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North Babylon, New York for analysis. Samples were handled in accordance with chain-of-custody protocols.

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow remains consistent with the previous data collected in June 2005. A site plan showing groundwater elevation contours is provided as Figure 2.

Neither VOCs nor PAHs were detected in MW-4, 5, and 6. MW-2 was not sampled. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 3, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-3	MW-7
VOC				
Benzene	0.7	28	3	34
Toluene	5	--	--	6
Ethylbenzene	5	28	--	--
Total Xylenes	5	10	--	32
Isopropyl Benzene	5	12	--	--
1,3,5-Trimethylbenzene	5	--	--	--
1,2,4-Trimethylbenzene	5	16	--	14
Naphthalene (VOC)	10	34	--	150
PAH				
Naphthalene (PAH)	10	17	--	95

Note: Concentrations are micrograms per liter (µg/l).

VOC and PAH analytical results from the September 2005 sampling round of MW-1 through 7 (excluding MW-2) are consistent with the data from the June 2005 sampling round. The largest variations in concentrations are benzene in MW-1, which increased by 18 parts-per-billion (ppb) in September 2005 and naphthalene in MW-7, which increased by 40 ppb in September 2005.

Conclusions

The VOC and PAH data is consistent with that reported in the June 2005 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

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- The groundwater data collected in site wells indicate groundwater contamination is stagnant. Groundwater flow and quality have remained consistent throughout the monitoring program.

- Although MW-2 was not accessed during the September 2005 sampling round, MW-2 sample results from the February and June 2005 sampling rounds are consistent. Groundwater quality over the entire site has remained unchanged during the monitoring program, therefore it is likely that VOC and PAH concentrations in MW-2 have not significantly fluctuated since the June 2005 sampling round.

The complete analytical summary table for the December 2004, February, June and September 2005 sampling rounds is provided as Table 1 for further comparison. Analytical laboratory data sheets for the September 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Groundwater Investigation Final Conclusions

Gannett Fleming conducted four sampling rounds on December 29, 2004, February 24, 2005, June 9, 2005, and September 28, 2005. Upon each sampling round, groundwater VOC and PAH concentrations were monitored and depth to water measurements were collected to gauge groundwater flow direction in each of the seven wells. The analytical results from each sampling round were evaluated against previously collected data from the site dating back to January 2004 to identify trends or variations in groundwater quality and flow. This information would determine if the petroleum contamination originated on-site or emanated from regional impacts and indicate migration of contaminants off-site.

Results

Groundwater elevation measurements throughout the four quarters consistently indicated that groundwater is flowing from the northwest and southwest and converges in an easterly direction. A site plan showing well locations and groundwater elevation contours is provided as Figure 2. :

Based on the data collected during this investigation, it appears that groundwater contamination impacts at the site are stagnant. Fluctuations in VOC and PAH concentrations throughout the investigation are consistent with seasonal variations. No significant changes have been observed to the analytical characteristics of the groundwater within each well. Furthermore, VOCs and PAHs were not detected above TOGS in the most down gradient well, MW-6, and in down gradient well MW-5 during the entire groundwater investigation.

The stagnant groundwater contaminant plume indicated groundwater impacts are representative of regional groundwater quality. If the UST and historic petroleum storage area were a source of

Continued . . .

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groundwater contamination, the removal of impacted soil from these areas should have shown evidence of an improvement in groundwater quality. This was not the case. Therefore, GF requests that NYSDEC Spill #0202804 and #0204002 be closed.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Encl.

cc: Jerry Swart, Fed Ex Ground
Robert Dengler, Fed Ex Ground

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TABLES

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TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	NA	< 1	< 1	2	2	3	3	NA
Benzene	0.7	NA	**6**	**10**	**28**	**52**	**4**	**13**	NA
Toluene	5	NA	< 1	3	< 1	3	< 1	< 1	NA
Ethylbenzene	5	NA	**25**	**22**	**28**	3	< 1	2	NA
M&P-Xylenes	--	NA	5	7	5	< 2	< 2	< 2	NA
O-Xylene	--	NA	6	8	5	2	< 1	< 1	NA
Total Xylenes	5	NA	**11**	**15**	**10**	< 3	< 3	< 3	NA
Isopropylbenzene	5	NA	**7**	**7**	**12**	3	< 1	1	NA
n-Propylbenzene	5	NA	2	2	2	1	< 1	< 1	NA
1,3,5-Trimethylbenzene	5	NA	2	2	2	< 1	< 1	< 1	NA
1,2,4-Trimethylbenzene	5	NA	**21**	**27**	**16**	3	< 1	< 1	NA
sec-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
p-Isopropyltoluene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
n-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Naphthalene (VOC)	10	NA	**45**	**53**	**34**	**62**	6	10	NA
tert-Butylbenzene	5	NA	< 1	< 1	< 1	< 1	< 1	< 1	NA
Total VOCs	--	NA	119	141	144	131	13	29	NA
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	NA	**12**	**25**	**17**	**13**	1	5	NA
Acenaphthylene	20	NA	< 1	< 1	< 1	7	< 1	< 1	NA
Acenaphthene	20	NA	< 1	< 1	< 1	15	1	3	NA
Fluorene	50	NA	< 1	< 1	< 1	19	< 1	2	NA
Phenanthrene	50	NA	< 1	< 1	< 1	**93**	2	5	NA
Anthracene	50	NA	< 1	< 1	< 1	29	< 1	2	NA
Fluoranthene	50	NA	< 1	< 1	< 1	45	1	2	NA
Pyrene	50	NA	< 1	< 1	< 1	**82**	2	3	NA
Benzo(a)anthracene	0.002	NA	< 1	< 1	< 1	**27**	< 1	< 1	NA
Chrysene	0.002	NA	< 1	< 1	< 1	**21**	< 1	< 1	NA
Benzo(b)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(k)fluoranthene	0.002	NA	< 1	< 1	< 1	**18**	< 1	< 1	NA
Benzo(a)pyrene	0.002	NA	< 1	< 1	< 1	**19**	< 1	< 1	NA
Ideno(1,2,3-cd)pyrene	0.002	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Dibenzo(a,h)anthracene	50	NA	< 1	< 1	< 1	2	< 1	< 1	NA
Benzo(ghi)perylene	5	NA	< 1	< 1	< 1	**7**	< 1	< 1	NA
Total PAHs	--	NA	12	25	17	422	7	22	NA

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**4**	**6**	**7**	**3**	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	4	5	4	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	3	4	3	1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	2	3	2	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	2	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	13	19	16	10	2	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	7	< 1	2	< 1	< 1	< 1	< 1
Fluorene	50	< 1	4	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	2	10	< 1	< 1	1	2	< 1	< 1
Anthracene	50	< 1	3	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	2	13	< 1	< 1	3	4	< 1	< 1
Pyrene	50	3	27	< 1	< 1	**4**	6	< 1	< 1
Benzo(a)anthracene	0.002	**1**	**7**	< 1	< 1	**2**	**3**	< 1	< 1
Chrysene	0.002	**1**	**7**	< 1	< 1	**2**	**3**	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	**6**	< 1	< 1	**1.5**	**2**	< 1	< 1
Benzo(a)pyrene	0.002	< 1	**5**	< 1	< 1	**2**	**3**	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	**3**	< 1	< 1	< 1	**1**	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	<1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	3	< 1	< 1	< 1	1	< 1	< 1
Total PAHs	--	9	101	1	2	17	27	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005	12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260									
Methyl tert-butyl ether	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
M&P-Xylenes	--	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
O-Xylene	--	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Isopropylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total VOCs	--	<	<	<	<	<	<	<	<
PAHs (ppb) - EPA Method 8270									
Naphthalene (PAH)	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	50	4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	50	3	< 1	< 1	< 1	1	< 1	< 1	< 1
Anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Pyrene	50	3	< 1	< 1	< 1	2	< 1	< 1	< 1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total PAHs	--	25	<	<	<	5	<	<	<

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
SEPTEMBER 28, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-7	MW-7	MW-7	MW-7
SAMPLE DATE:		12/29/2004	2/24/2005	6/9/2005	9/28/2005
VOCs (ppb) - EPA Method 8260					
Methyl tert-butyl ether	10	< 1	< 1	1	< 1
Benzene	0.7	**22**	**16**	**22**	**34**
Toluene	5	**9**	**7**	**7**	**6**
Ethylbenzene	5	**7**	**7**	**7**	5
M&P-Xylenes	--	20	28	25	21
O-Xylene	--	12	14	12	11
Total Xylenes	5	**32**	**42**	**37**	**32**
Isopropylbenzene	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	< 1	2	2	< 1
1,3,5-Trimethylbenzene	5	**6**	5	**6**	5
1,2,4-Trimethylbenzene	5	**16**	**16**	**15**	**14**
sec-Butylbenzene	5	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	3	< 3	3	< 1
n-Butylbenzene	5	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**200**	**97**	**110**	**150**
tert-Butylbenzene	5	< 1	< 1	< 1	< 1
Total VOCs	--	295	192	210	278
PAHs (ppb) - EPA Method 8270					
Naphthalene (PAH)	10	**70**	**45**	**65**	**95**
Acenaphthylene	20	< 1	< 1	< 1	< 1
Acenaphthene	20	7	4	6	8
Fluorene	50	4	2	3	5
Phenanthrene	50	9	4	5	8
Anthracene	50	2	< 1	1	1
Fluoranthene	50	4	< 1	1	1
Pyrene	50	4	< 1	1	1
Benzo(a)anthracene	0.002	**2**	< 1	< 1	< 1
Chrysene	0.002	**2**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	**1.5**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	**1**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1
Total PAHs	--	108	55	82	119

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
NA	Not available - Well was not sampled
ppb	Parts per billion (µg/l)
--	No standard established

FIGURES

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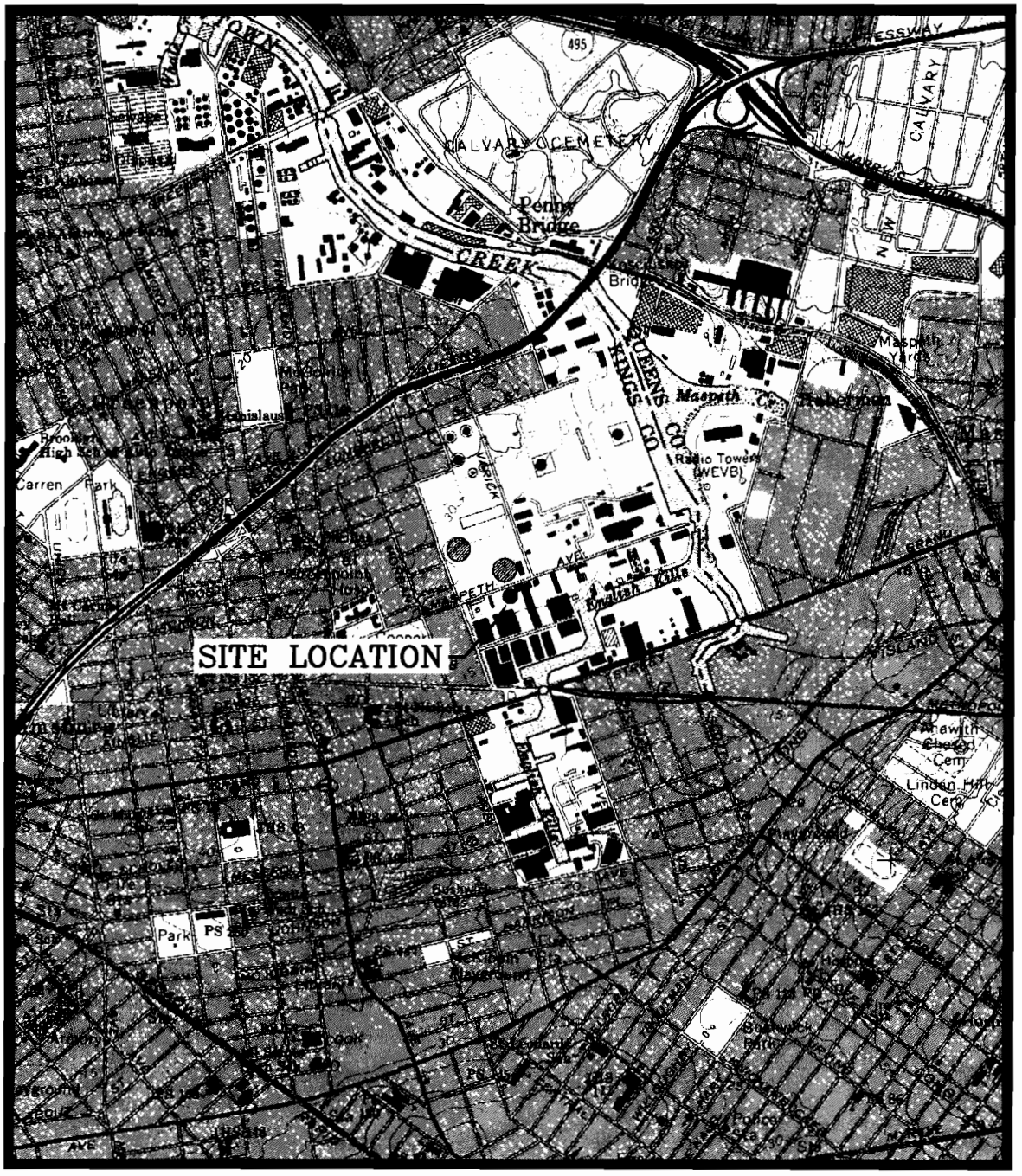
300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

S43956-051
062905

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS
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www.gannettfleming.com

June 30, 2005
File # 43956.051

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) second quarter, 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on June 9, 2005. The purpose of the sampling is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

On June 9, 2005, groundwater samples were collected from the seven monitoring wells installed at the site. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in wells MW-2 through MW-7. MW-1 was immediately purged and sampled following depth to product and depth to water measurements to complete sampling of the well before vehicles could possibly park over it. No floating product was observed in any of the wells. Three to four casing volumes of groundwater were purged from each well using a centrifugal pump with dedicated polyethylene tubing. At the completion of each purged casing volume, pH, conductivity, temperature, and turbidity were measured and recorded in field sampling logs. Groundwater samples were collected immediately after the well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, New York for analysis. Samples were handled in accordance with chain-of-custody protocols.

Continued...

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow is consistent with the previous data collected in February 2005. A site plan showing groundwater elevation contours is provided as Figure 2.

No VOCs or PAHs were detected in MW-4, 5, and 6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 2, 3, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-7
VOC					
Benzene	0.7	10	13	7	22
Toluene	5	--	--	--	7
Ethylbenzene	5	22	--	--	7
Total Xylenes	5	15	--	--	37
Isopropyl Benzene	5	7	--	--	--
1,3,5-Trimethylbenzene	5	--	--	--	6
1,2,4-Trimethylbenzene	5	27	--	--	15
Naphthalene (VOC)	10	53	--	--	110
PAH					
Naphthalene (PAH)	10	25	--	--	65

Note: Concentrations are micrograms per liter (µg/l).

VOC results from the June 2005 sampling round of MW-1 through 7 are generally consistent with the data from the February 2005 sampling round. PAH results from the June 2005 sampling round of MW-1 through 7 are also generally consistent with the previous data, with the exception of MW-3 and MW-4. In the June 2005 sample results, MW-3 and 4 have no PAH compounds at concentrations above TOGS compared to the February 2005 results, where MW-3 and 4 had six PAH compounds (benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene) at concentrations above TOGS.

Conclusions

The VOC data is generally consistent with that reported in the February 2005 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

Continued...

- Because of their low solubility, the absence of PAH's in wells MW-3 and 4 during the June 2005 sampling round is most likely associated with the lower turbidity levels observed. During the February 2005 sampling round, the sample turbidity level in MW-3 was observed at greater than 999 NTU, while the sample turbidity level in June 2005 was observed at 168 NTU. The turbidity readings for MW-4 were 68 NTU in February 2005 and 4.27 NTU in June 2005.

- When comparing contaminant concentrations in site wells to groundwater flow direction, it appears that groundwater contamination is stagnant.

The complete analytical summary tables for February and June 2005 sampling rounds are provided as Tables 1 and 2 respectively for further comparison. Analytical laboratory data sheets for the June 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

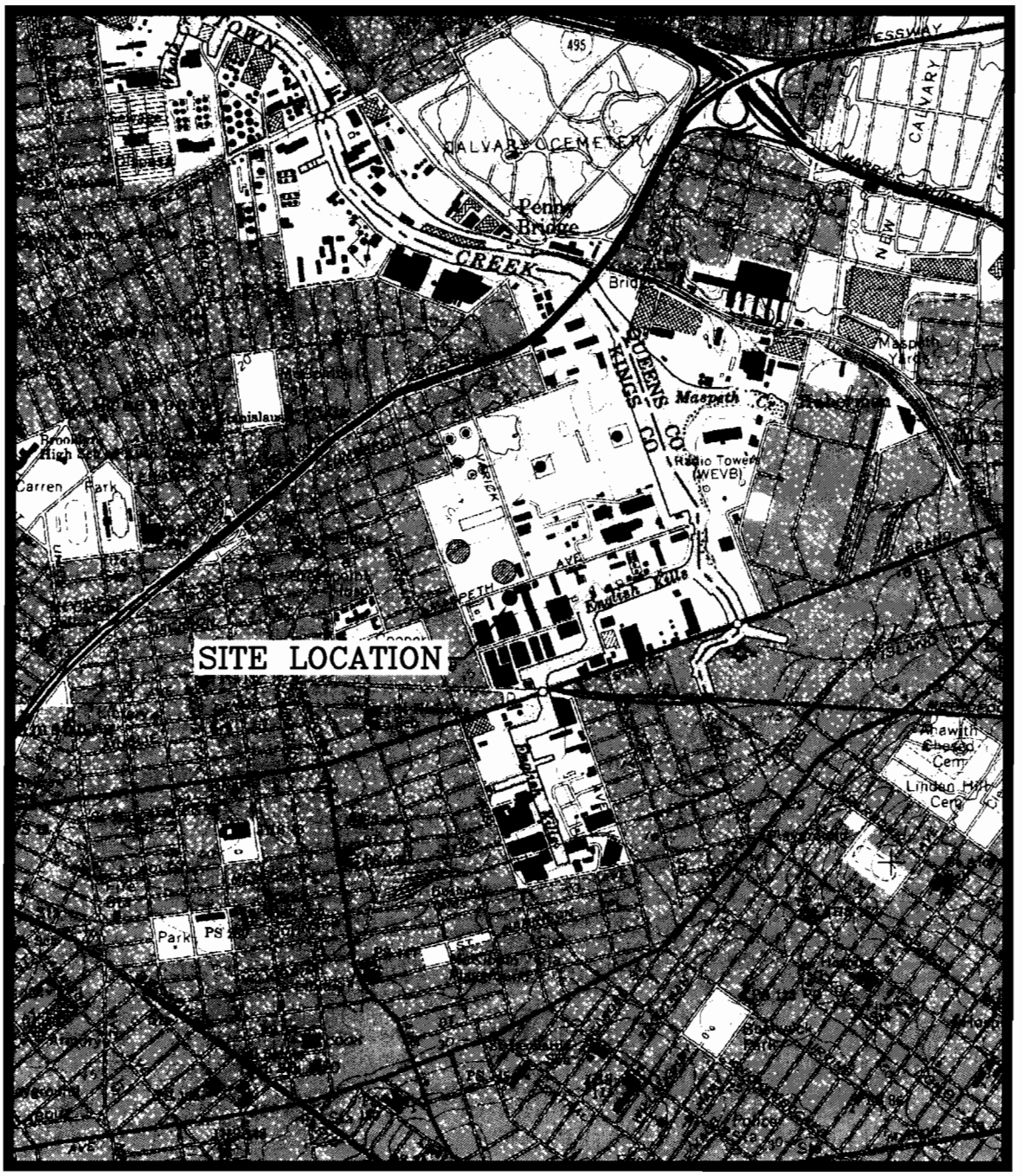
STEPHEN R. HIX
Director of Environmental Services

Encl.

cc: Jerry Swart, Fed Ex Ground
Robert Dengler, Fed Ex Ground

FIGURES

300 MASPETH AVENUE
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

S43956-051
062905

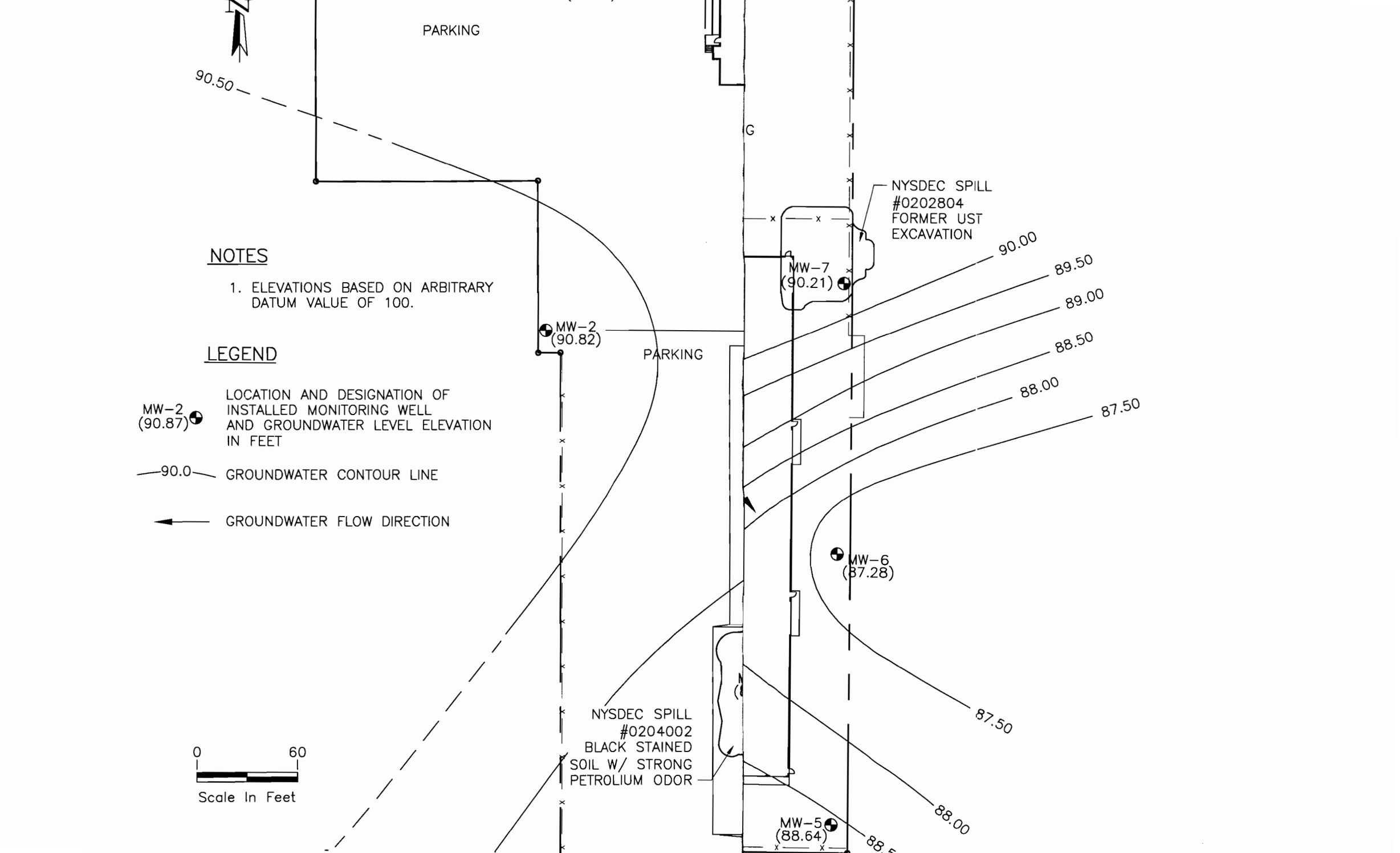

PARKING
90.50
G
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
90.00
89.50
89.00
88.50
88.00
87.50
MW-7
(90.21)
MW-2
(90.82)
PARKING
MW-6
(87.28)
NOTES
1. ELEVATIONS BASED ON ARBITRARY DATUM VALUE OF 100.
LEGEND
MW-2
(90.87)
LOCATION AND DESIGNATION OF INSTALLED MONITORING WELL AND GROUNDWATER LEVEL ELEVATION IN FEET
90.0
GROUNDWATER CONTOUR LINE
GROUNDWATER FLOW DIRECTION
NYSDEC SPILL
#0204002
BLACK STAINED
SOIL W/ STRONG
PETROLIUM ODOR
87.50
88.00
MW-5
(88.64)
0
60
Scale In Feet

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JUNE 9, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005	6/9/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	1
Benzene	0.7	**10**	**13**	**7**	< 1	< 1	< 1	**22**
Toluene	5	3	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**22**	2	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	7	< 2	< 2	< 2	< 2	< 2	25
O-Xylene	--	8	< 1	< 1	< 1	< 1	< 1	12
Total Xylenes	5	**15**	< 3	< 3	< 3	< 3	< 3	**37**
Isopropylbenzene	5	**7**	1	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	3	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	**27**	< 1	< 1	< 1	< 1	< 1	**15**
sec-Butylbenzene	5	< 1	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**53**	10	< 1	< 1	< 1	< 1	**110**
tert-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**25**	5	< 1	< 1	< 1	< 1	**65**
Acenaphthylene	20	< 1	< 1	1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	3	< 1	< 1	< 1	< 1	6
Fluorene	50	< 1	2	< 1	< 1	< 1	< 1	3
Phenanthrene	50	< 1	5	< 1	< 1	< 1	< 1	5
Anthracene	50	< 1	2	< 1	< 1	< 1	< 1	1
Fluoranthene	50	< 1	2	< 1	< 1	< 1	< 1	1
Pyrene	50	< 1	3	< 1	< 1	< 1	< 1	1
Benzo(a)anthracene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
FEBRUARY 24, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**6**	**4**	**6**	< 1	< 1	< 1	**16**
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**25**	< 1	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	5	< 2	< 2	< 2	< 2	< 2	28
O-Xylene	--	6	< 1	< 1	< 1	< 1	< 1	14
Total Xylenes	5	**11**	< 3	< 3	< 3	< 3	< 3	**42**
Isopropylbenzene	5	**7**	< 1	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	4	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	5
1,2,4-Trimethylbenzene	5	**21**	< 1	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	< 1	< 1	3	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**45**	6	< 1	< 1	< 1	< 1	**97**
tert-Butylbenzene	5	< 1	< 1	1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**12**	1	< 1	< 1	< 1	< 1	**45**
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	1	7	< 1	< 1	< 1	4
Fluorene	50	< 1	< 1	4	< 1	< 1	< 1	2
Phenanthrene	50	< 1	2	10	2	< 1	< 1	4
Anthracene	50	< 1	< 1	3	< 1	< 1	< 1	< 1
Fluoranthene	50	< 1	1	13	4	< 1	< 1	< 1
Pyrene	50	< 1	2	27	6	< 1	< 1	< 1
Benzo(a)anthracene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	**5**	**3**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	**3**	**1**	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	<1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	3	1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

ATTACHMENT A

LABORATORY ANALYTICAL DATA SHEETS

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.01 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1010

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	10		06/13/05	1	EPA8021
Toluene	ug/L	3		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	22		06/13/05	1	EPA8021
m + p Xylene	ug/L	7		06/13/05	2	EPA8021
o Xylene	ug/L	8		06/13/05	1	EPA8021
Xylene	ug/L	15		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	7		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	2		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	2		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	27		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	53		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14247 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.01 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1010
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	25		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14248 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.02 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1115

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	3		06/13/05	1	EPA8021
Benzene	ug/L	13		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	2		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	10		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14249 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.02 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1115
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	5		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	3		06/13/05	1	EPA8270
Fluorene	ug/L	2		06/13/05	1	EPA8270
Phenanthrene	ug/L	5		06/13/05	1	EPA8270
Anthracene	ug/L	2		06/13/05	1	EPA8270
Fluoranthene	ug/L	2		06/13/05	1	EPA8270
Pyrene	ug/L	3		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14250 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.03 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14251 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.03 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1200

MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14252 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.04 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	7		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	4		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	3		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	2		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14253 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.04 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1300

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14254 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.05 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14255 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.252109.05 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14256 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

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LAB NO.252109.06 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1445

MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/13/05	1	EPA8021
Benzene	ug/L	< 1		06/13/05	1	EPA8021
Toluene	ug/L	< 1		06/13/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		06/13/05	1	EPA8021
m + p Xylene	ug/L	< 2		06/13/05	2	EPA8021
o Xylene	ug/L	< 1		06/13/05	1	EPA8021
Xylene	ug/L	< 3		06/13/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/13/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		06/13/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		06/13/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		06/13/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		06/13/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		06/13/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14257 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.06 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1445
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	< 1		06/13/05	1	EPA8270
Fluorene	ug/L	< 1		06/13/05	1	EPA8270
Phenanthrene	ug/L	< 1		06/13/05	1	EPA8270
Anthracene	ug/L	< 1		06/13/05	1	EPA8270
Fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Pyrene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14258 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.07 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1600

MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	1		06/14/05	1	EPA8021
Benzene	ug/L	22		06/14/05	1	EPA8021
Toluene	ug/L	7		06/14/05	1	EPA8021
Ethyl Benzene	ug/L	7		06/14/05	1	EPA8021
m + p Xylene	ug/L	25		06/14/05	2	EPA8021
o Xylene	ug/L	12		06/14/05	1	EPA8021
Xylene	ug/L	37		06/14/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		06/14/05	1	EPA8021
n-Propylbenzene	ug/L	2		06/14/05	1	EPA8021
135-Trimethylbenzene	ug/L	6		06/14/05	1	EPA8021
124-Trimethylbenzene	ug/L	15		06/14/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021
p-Isopropyltoluene	ug/L	3		06/14/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021
Naphthalene(v)	ug/L	110		06/14/05	10	EPA8021
tert-Butylbenzene	ug/L	< 1		06/14/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14259 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.252109.07 06/15/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:06/09/05 RECEIVED:06/10/05
TIME COL'D:1600
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	65		06/13/05	1	EPA8270
Acenaphthylene	ug/L	< 1		06/13/05	1	EPA8270
Acenaphthene	ug/L	6		06/13/05	1	EPA8270
Fluorene	ug/L	3		06/13/05	1	EPA8270
Phenanthrene	ug/L	5		06/13/05	1	EPA8270
Anthracene	ug/L	1		06/13/05	1	EPA8270
Fluoranthene	ug/L	1		06/13/05	1	EPA8270
Pyrene	ug/L	1		06/13/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Chrysene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		06/13/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		06/13/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		06/13/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14260 NYSDOH ID # 10320

ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING
377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client: Garrett Fleming
Address: 480 Forest Ave
Locust Valley NY 11560
Phone: (516) 671 8440 FAX: (516) 671 3319
Person receiving report: Anthony Varatta
Sampled by: Same
Source: Foster Muspeth Ave
Job No.: 43956.050

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	TYPE & NUMBER OF CONTAINERS: STARS VOCs	TYPE & NUMBER OF CONTAINERS: STARS SVOCs	QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED
Water	6/9/09	1010	MW-1	3	X	X			Standard Turnaround
		1115	MW-2	3					
		1200	MW-4						
		1300	MW-3						
		1330	MW-5						
		1415	MW-6						
↓	↓	1600	MW-7	↓	↓	↓			

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing: Garrett	6/9/09 1800	YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

May 11, 2005
File # 43956.051

2005 MAY 13 PM 5:32
NYS DEC REGION 2

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) first quarter, 2005 groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on February 24, 2005. The purpose of the sampling is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

On February 24, 2005, groundwater samples were collected from the seven monitoring wells installed at the site. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in each well. Floating product was not encountered. Three to four casing volumes of groundwater were purged from each well. MW-1, 2, and 3 were purged using a centrifugal pump with dedicated polyethylene tubing. MW-4, 5, 6, and 7 were purged using dedicated polyethylene bailers because the centrifugal pump broke down after sampling MW-3. MW-1 was purged dry after 2 well volumes and the well was allowed to recharge before sampling. Groundwater samples from the remaining wells were collected immediately after each well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, New York for analysis, in accordance with chain-of-custody protocols.

Results

Groundwater elevation measurements in the wells indicate that groundwater is flowing from the northwest and southwest and converges in an easterly direction. The direction of groundwater flow remains consistent with the data provided in GF's January and December 2004 reports. A site plan showing groundwater elevation contours is provided as Figure 2.

Continued...

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No VOCs or PAHs were detected in MW-5 and 6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-1, 2, 3, 4, and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-7
VOC						
Benzene	0.7	6	4	6	--	16
Toluene	5	--	--	--	--	7
Ethylbenzene	5	25	--	--	--	7
Total Xylenes	5	11	--	--	--	42
Isopropyl Benzene	5	7	--	--	--	--
1,2,4-Trimethylbenzene	5	21	--	--	--	16
Naphthalene (VOC)	10	45	--	--	--	97
PAH						
Naphthalene (PAH)	10	12	--	--	--	45
Benzo (a) anthracene	0.002	--	--	7	3	--
Chrysene	0.002	--	--	7	3	--
Benzo (b) fluoranthene	0.002	--	--	6	2	--
Benzo (k) fluoranthene	0.002	--	--	6	2	--
Benzo (a) pyrene	0.002	--	--	5	3	--
Indeno (1,2,3-cd) pyrene	0.002	--	--	3	1	--

Note: Concentrations are micrograms per liter (µg/l).

VOC results from the February 2005 sampling round of MW-2 through 7 are generally consistent with the previous data with the exception of the concentration of naphthalene in MW-2 and 7. Naphthalene in MW-2 has fallen from 62 µg/kg to not detected, and in MW-7 naphthalene has fallen from 200 µg/kg to 97 µg/kg. PAH results from the February 2005 sampling round of MW-2 through 7 are also consistent with the previous data, with the exception of MW-2. In the December 2004 sample results, MW-2 had ten PAH compounds above TOGS compared to the February 2004 results, where there are no compounds above TOGS.

MW-1 was inaccessible and not sampled in December 2004, however, compared to sample results of the January 2004 sampling round, five additional VOCs were detected above TOGS. In addition, the concentration of 1,3,5-Trimethylbenzene, has fallen below TOGS, total xylenes has decreased slightly, and the concentration of naphthalene (PAH) has fallen significantly from 97 µg/kg to 12 µg/kg.

Continued...

Conclusions

The VOC data is generally consistent with that reported in the January and December 2004 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

- The five new compounds detected above TOGS in MW-1 are at concentrations only slightly exceeding TOGS. Three compounds in MW-1 with concentrations above TOGS in January 2004 have decreased significantly, with two of them now below TOGS. This data appears consistent with regional characteristic groundwater quality and does not represent a localized groundwater issue in the vicinity of this well.
- Because of their low solubility, the occurrence of higher concentrations of PAH's in MW-2 in December 2004 is likely representative of elevated turbidity levels observed. Turbidity levels in MW-2 were observed at greater than 999 NTU in groundwater samples during that sampling round. During the February 2005 sampling round, MW-2 was purged with a centrifugal pump instead of a bailer, which facilitated a sample turbidity level of 3.28 NTU.
- When comparing contaminant concentrations in site wells to groundwater flow direction, it appears that groundwater contamination is stagnant.

The complete analytical summary tables for February 2005, December 2004, and January 2004 sampl rounds are provided as Table 1, 2, and 3 respectively for further comparison. Analytical laboratory sheets for the February 2005 sampling round with chain-of-custody documentation are provid Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

Jerry Swart

Bart Dengler

2005-05-11 JV QTRLY Groundwater Sampling.doc

Conclusions

The VOC data is generally consistent with that reported in the January and December 2004 data. Based on the results of this sampling round, Gannett Fleming has concluded the following:

- The five new compounds detected above TOGS in MW-1 are at concentrations only slightly exceeding TOGS. Three compounds in MW-1 with concentrations above TOGS in January 2004 have decreased significantly, with two of them now below TOGS. This data appears consistent with regional characteristic groundwater quality and does not represent a localized groundwater issue in the vicinity of this well.

- Because of their low solubility, the occurrence of higher concentrations of PAH's in MW-2 in December 2004 is likely representative of elevated turbidity levels observed. Turbidity levels in MW-2 were observed at greater than 999 NTU in groundwater samples during that sampling round. During the February 2005 sampling round, MW-2 was purged with a centrifugal pump instead of a bailer, which facilitated a sample turbidity level of 3.28 NTU.

- When comparing contaminant concentrations in site wells to groundwater flow direction, it appears that groundwater contamination is stagnant.

The complete analytical summary tables for February 2005, December 2004, and January 2004 sampling rounds are provided as Table 1, 2, and 3 respectively for further comparison. Analytical laboratory data sheets for the February 2005 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

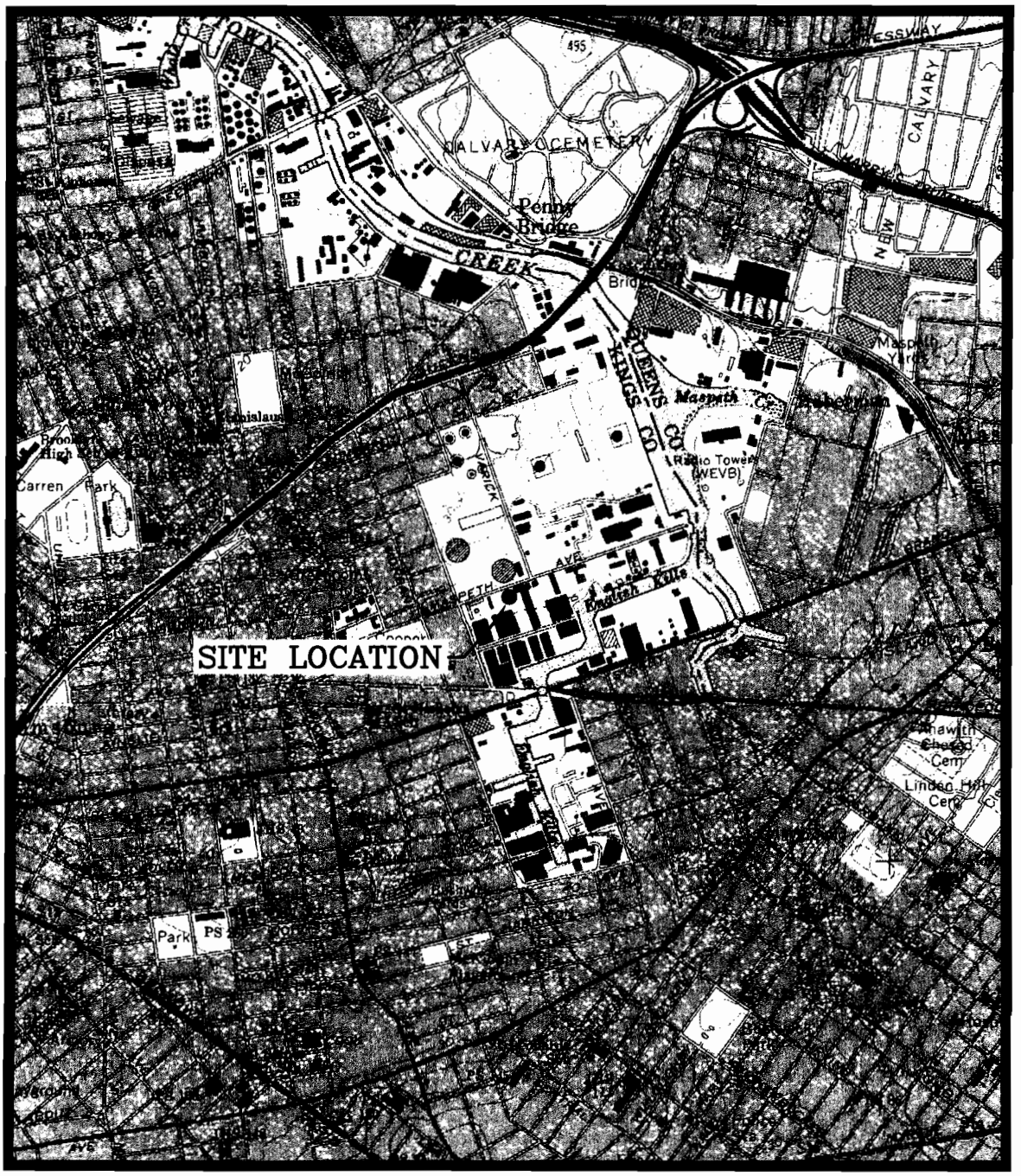
cc: Jerry Swart
Robert Dengler

Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S. 7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP

S43956-051C
051105

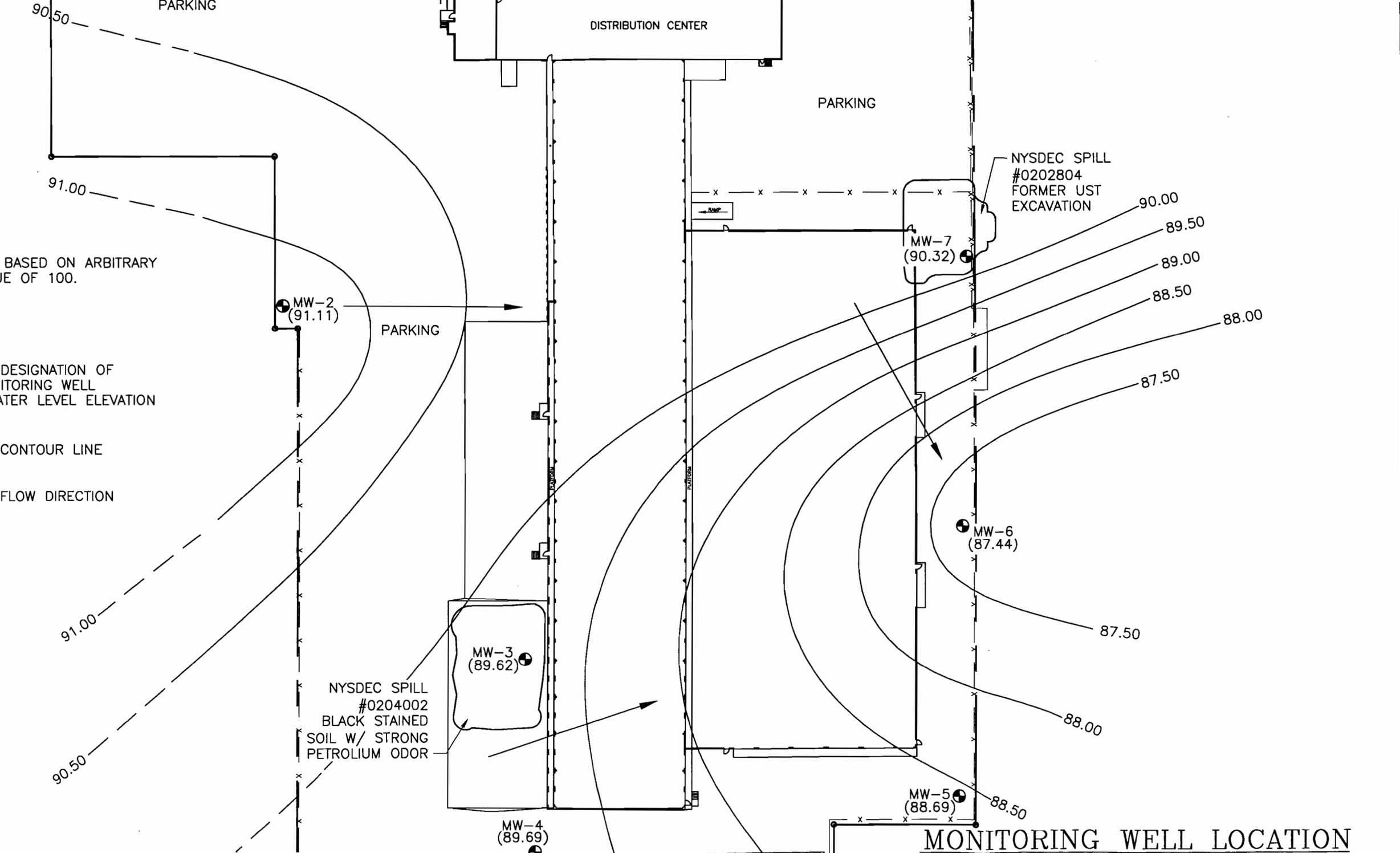

PARKING
DISTRIBUTION CENTER
PARKING
NYSDEC SPILL
#0202804
FORMER UST
EXCAVATION
MW-7
(90.32)
MW-2
(91.11)
PARKING
MW-3
(89.62)
NYSDEC SPILL
#0204002
BLACK STAINED
SOIL W/ STRONG
PETROLIUM ODOR
MW-6
(87.44)
MW-5
(88.69)
MW-4
(89.69)
90.50
91.00
90.00
89.50
89.00
88.50
88.00
87.50
87.50
88.00
88.50
91.00
90.50
BASED ON ARBITRARY
UE OF 100.
DESIGNATION OF
ITORING WELL
ATER LEVEL ELEVATION
CONTOUR LINE
FLOW DIRECTION
MONITORING WELL LOCATION

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
FEBRUARY 24, 2005

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005	2/24/2005
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	< 1	3	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	**6**	**4**	**6**	< 1	< 1	< 1	**16**
Toluene	5	< 1	< 1	< 1	< 1	< 1	< 1	**7**
Ethylbenzene	5	**25**	< 1	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	5	< 2	< 2	< 2	< 2	< 2	28
O-Xylene	--	6	< 1	< 1	< 1	< 1	< 1	14
Total Xylenes	5	**11**	< 3	< 3	< 3	< 3	< 3	**42**
Isopropylbenzene	5	**7**	< 1	5	< 1	< 1	< 1	< 1
n-Propylbenzene	5	2	< 1	4	< 1	< 1	< 1	2
1,3,5-Trimethylbenzene	5	2	< 1	< 1	< 1	< 1	< 1	5
1,2,4-Trimethylbenzene	5	**21**	< 1	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	< 1	< 1	3	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 3
n-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	**45**	6	< 1	< 1	< 1	< 1	**97**
tert-Butylbenzene	5	< 1	< 1	1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	**12**	1	< 1	< 1	< 1	< 1	**45**
Acenaphthylene	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	< 1	1	7	< 1	< 1	< 1	4
Fluorene	50	< 1	< 1	4	< 1	< 1	< 1	2
Phenanthrene	50	< 1	2	10	2	< 1	< 1	4
Anthracene	50	< 1	< 1	3	< 1	< 1	< 1	< 1
Fluoranthene	50	< 1	1	13	4	< 1	< 1	< 1
Pyrene	50	< 1	2	27	6	< 1	< 1	< 1
Benzo(a)anthracene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Chrysene	0.002	< 1	< 1	**7**	**3**	< 1	< 1	< 1
Benzo(b)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(k)fluoranthene	0.002	< 1	< 1	**6**	**2**	< 1	< 1	< 1
Benzo(a)pyrene	0.002	< 1	< 1	**5**	**3**	< 1	< 1	< 1
Ideno(1,2,3-cd)pyrene	0.002	< 1	< 1	**3**	**1**	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	< 1	< 1	<1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	< 1	< 1	3	1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
DECEMBER 29, 2004

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	NS	2	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	NS	**52**	**4**	< 1	< 1	< 1	**22**
Toluene	5	NS	3	< 1	< 1	< 1	< 1	**9**
Ethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	NS	< 2	< 2	< 2	< 2	< 2	20
O-Xylene	--	NS	2	< 1	< 1	< 1	< 1	12
Total Xylenes	5	NS	< 3	< 3	< 3	< 3	< 3	**32**
Isopropylbenzene	5	NS	3	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	NS	1	3	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	NS	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	NS	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	NS	**62**	< 1	2	< 1	< 1	**200**
tert-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	NS	**13**	< 1	< 1	< 1	< 1	**70**
Acenaphthylene	20	NS	7	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	NS	15	< 1	< 1	4	< 1	7
Fluorene	50	NS	19	< 1	< 1	4	< 1	4
Phenanthrene	50	NS	**93**	2	1	3	1	9
Anthracene	50	NS	29	< 1	< 1	< 1	< 1	2
Fluoranthene	50	NS	45	2	3	3	2	4
Pyrene	50	NS	**82**	3	4	3	2	4
Benzo(a)anthracene	0.002	NS	**27**	**1**	**2**	**2**	< 1	**2**
Chrysene	0.002	NS	**21**	**1**	**2**	**2**	< 1	**2**
Benzo(b)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(k)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(a)pyrene	0.002	NS	**19**	< 1	**2**	**1**	< 1	**1**
Ideno(1,2,3-cd)pyrene	0.002	NS	**7**	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	NS	2	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	NS	**7**	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit
NS	Not sampled

TABLE 3

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JANUARY 6, 2004

SAMPLE ID:	NYSDEC Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		1/6/2004	1/6/2004	1/6/2004	1/6/2004	1/6/04 & 1/9/04	1/6/2004	1/6/2004
VOCs (ppb) - EPA Method 8021								
Benzene	0.7	-	**10**	-	-	-	-	**20**
Toluene	5	-	-	-	-	-	-	2
Ethylbenzene	5	-	**7**	-	-	-	-	**7**
M&P-Xylenes	--	-	-	3	-	-	-	23
O-Xylene	--	21	-	2	-	-	-	12
Total Xylenes	5	**21**	-	5	-	-	-	**35**
Isopropylbenzene	5	-	3	-	-	-	-	-
n-Propylbenzene	5	-	1	-	-	-	-	1
1,3,5-Trimethylbenzene	5	**13**	1	-	-	-	-	5
1,2,4-Trimethylbenzene	5	-	2	3	-	-	-	**12**
sec-Butylbenzene	5	-	-	-	-	-	-	-
p-Isopropyltoluene	5	1	-	4	-	-	-	2
n-Butylbenzene	5	-	-	-	-	-	-	-
Naphthalene (VOC)	10	-	**93**	-	-	-	-	**52**
tert-Butylbenzene	5	-	-	-	-	-	-	-
Methyl tert-butyl ether	10	1	-	-	-	-	-	2
PAHs (ppb) - EPA Method 8270								
Acenaphthene	20	-	6	2	-	-	-	3
Fluorene	50	-	6	1	-	-	-	2
Phenanthrene	50	-	12	2	-	-	-	4
Anthracene	50	-	4	-	-	-	-	-
Fluoranthene	50	-	4	-	-	-	-	-
Pyrene	50	-	4	-	-	-	-	-
Benzo(a)anthracene	0.002	-	**1**	-	-	-	-	-
Chrysene	0.002	-	**1**	-	-	-	-	-
Benzo(b)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(a)pyrene	0.002	-	-	-	-	-	-	-
Ideno(1,2,3-cd)pyrene	0.002	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	50	-	-	-	-	-	-	-
Benzo(ghi)perylene	5	-	-	-	-	-	-	-
Naphthalene (PAH)	10	**97**	**43**	3	-	-	-	**28**

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.01 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1115
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	3		02/25/05	1	EPA8021
Benzene	ug/L	4		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	6		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4205 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.01 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1115

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	2		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	1		03/01/05	1	EPA8270
Pyrene	ug/L	2		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4206 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.02 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1130

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	6		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	25		02/25/05	1	EPA8021
m + p Xylene	ug/L	5		02/25/05	2	EPA8021
o Xylene	ug/L	6		02/25/05	1	EPA8021
Xylene	ug/L	11		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	7		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	2		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	2		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	21		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	45		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4207 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.02 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1130
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	12		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4208 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.03 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1300

MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4209 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

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LAB NO.250652.03 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	2		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	4		03/01/05	1	EPA8270
Pyrene	ug/L	6		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	3		03/01/05	1	EPA8270
Chrysene	ug/L	3		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	2	#	03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	2	#	03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	3		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 4 ug/L, unable to separate isomers.

DIRECTOR

rn = 4210 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.04 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	6		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	5		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	4		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	3		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4211 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.04 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1330
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	7		03/01/05	1	EPA8270
Fluorene	ug/L	4		03/01/05	1	EPA8270
Phenanthrene	ug/L	10		03/01/05	1	EPA8270
Anthracene	ug/L	3		03/01/05	1	EPA8270
Fluoranthene	ug/L	13		03/01/05	1	EPA8270
Pyrene	ug/L	27	*	03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	7	*	03/01/05	1	EPA8270
Chrysene	ug/L	7	*	03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	6	#**	03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	6	#**	03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	5	**	03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	3	**	03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1	**	03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	3	**	03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =12 ug/L, unable to separate isomers.
*,**Estimated due to low internal standard, *39% & **28%.
Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 4212 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.05 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1430

MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4213 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.05 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1430
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4214 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.06 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1500

MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	< 1		02/25/05	1	EPA8021
Toluene	ug/L	< 1		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		02/25/05	1	EPA8021
m + p Xylene	ug/L	< 2		02/25/05	2	EPA8021
o Xylene	ug/L	< 1		02/25/05	1	EPA8021
Xylene	ug/L	< 3		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		02/25/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4215 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.06 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1500
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	< 1		03/01/05	1	EPA8270
Fluorene	ug/L	< 1		03/01/05	1	EPA8270
Phenanthrene	ug/L	< 1		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4216 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.07 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1545

MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		02/25/05	1	EPA8021
Benzene	ug/L	16		02/25/05	1	EPA8021
Toluene	ug/L	7		02/25/05	1	EPA8021
Ethyl Benzene	ug/L	7		02/25/05	1	EPA8021
m + p Xylene	ug/L	28		02/25/05	2	EPA8021
o Xylene	ug/L	14		02/25/05	1	EPA8021
Xylene	ug/L	42		02/25/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		02/25/05	1	EPA8021
n-Propylbenzene	ug/L	2		02/25/05	1	EPA8021
135-Trimethylbenzene	ug/L	5		02/25/05	1	EPA8021
124-Trimethylbenzene	ug/L	16		02/25/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 3		02/25/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021
Naphthalene(v)	ug/L	97		02/25/05	10	EPA8021
tert-Butylbenzene	ug/L	< 1		02/25/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4217 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.250652.07 03/03/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: FedEx Maspeth Avenue, #43956.050
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:02/24/05 RECEIVED:02/25/05
TIME COL'D:1545
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	45		03/01/05	1	EPA8270
Acenaphthylene	ug/L	< 1		03/01/05	1	EPA8270
Acenaphthene	ug/L	4		03/01/05	1	EPA8270
Fluorene	ug/L	2		03/01/05	1	EPA8270
Phenanthrene	ug/L	4		03/01/05	1	EPA8270
Anthracene	ug/L	< 1		03/01/05	1	EPA8270
Fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Pyrene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Chrysene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		03/01/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		03/01/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		03/01/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 4218 NYSDOH ID # 10320

ECO TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING
377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client:
Address:
Phone: FAX:
Person receiving report:
Sampled by:
Source:
Job No.:

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	TYPE & NUMBER OF CONTAINERS	QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED

Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*	Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*	Relinquished by: *(Signature)*	DATE/TIME	SEAL INTACT?	Received by: *(Signature)*
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:

Gannett Fleming

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

March 18, 2005
File # 43956.051

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Quarterly Groundwater Sampling
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents Gannett Fleming's (GF's) quarterly groundwater sampling at 300 Maspeth Avenue, Brooklyn, New York, performed on December 29, 2004. The purpose of this investigation is to monitor petroleum impacts to groundwater at the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and the southwest portion of the site (Spill #0204002) where a former Brooklyn Union Gas bulk fuel oil terminal was located. This investigation was conducted in compliance with New York State Department of Environmental Conservation (NYSDEC) requirements, based upon the results of GF's June 2004 Site Investigation Report. A site location map is provided as Figure 1.

Groundwater samples were collected on December 29, 2004 from six of the seven wells installed in December 2003. A car was parked over monitoring well MW-1 on the day of the sampling event and the well could not be accessed. Samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8021 and poly-aromatic hydrocarbons (PAHs) using EPA Method 8270 and results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Number 1.1.1 groundwater criteria. The monitoring well locations are shown on Figure 2.

Well Sampling Summary

Prior to sampling, depth to product and depth to water were measured in each well (except MW-1). Floating product was not encountered. Three to four casing volumes of groundwater were purged from wells MW-2 through MW-7 using dedicated polyethylene bailers and groundwater samples were collected immediately after each well was purged. Samples were placed in an ice-filled cooler and hand delivered to EcoTest Laboratories, Inc., North Babylon, N.Y. for analysis, all in accord with chain-of-custody protocols.

Results

Since MW-1 was not accessible, the groundwater elevation at the north end of the site could not be determined. Elevation measurements in the remaining six wells indicate that groundwater flowing from the northwest and southwest converges to the east in the southeastern portion of the site. Although the groundwater elevation at the north end of the site could not be defined, the direction of groundwater flow remains consistent with GF's June 2004 report. A site plan showing groundwater elevation contours is provided as Figure 2.

Continued . . .

No VOCs or PAHs were detected at concentrations above NYSDEC Groundwater Standards in MW-6. The following VOC and PAH compounds were detected above NYSDEC TOGS guidance values in MW-2, 3, 4, 5 and 7:

Parameter	NYSDEC TOGS Guidance Values	MW-2	MW-3	MW-4	MW-5	MW-7
VOC						
Benzene	0.7	52	4	--	--	22
Toluene	5	--	--	--	--	9
Ethylbenzene	5	--	--	--	--	7
Total Xylenes	5	--	--	--	--	32
1,2,4-Trimethylbenzene	5	--	--	--	--	16
1,3,5-Trimethylbenzene	5	--	--	--	--	6
Naphthalene (VOC)	10	62	--	--	--	200
PAH						
Naphthalene (PAH)	10	13	--	--	--	70
Phenanthrene	50	93	--	--	--	--
Pyrene	50	82	--	--	--	--
Benzo (a) anthracene	0.002	27	1	2	2	2
Chrysene	0.002	21	1	2	2	2
Benzo (b) fluoranthene	0.002	18	--	1.5	1.5	1.5
Benzo (k) fluoranthene	0.002	18	--	1.5	1.5	1.5
Benzo (a) pyrene	0.002	19	--	2	1	1
Indeno (1,2,3-cd) pyrene	0.002	7	--	--	--	--
Benzo (ghi) perylene	5	7	--	--	--	--

Note: Concentrations are micrograms per liter (µg/l).

As reported in GF's June 2004 site report, VOC and PAH compounds sampled on January 6th, 2004 were not detected in MW-3, 4, 5, and 6. Sample results from GF's December 2004 sampling round reported VOCs and PAHs detected above TOGS in wells MW-3, 4, and 5. Specific compounds are listed above.

Continued . . .

Concentrations of benzene, naphthalene, benzo (a) anthracene, and chrysene found in MW-2 in December 2004 were higher than reported in the January 2004 sample data, while the concentration of ethylbenzene was lower. There were also seven additional PAH compounds detected above TOGS that were either not detected or not found above TOGS in the June 2004 report.

Concentrations of benzene, 1,2,4-trimethylbenzene, and naphthalene in MW-7 from the December 2004 sampling round were higher compared to the January 2004 sample data, while the concentration of ethylbenzene was unchanged and the concentration of total xylenes was less. There were also two additional VOC compounds and five additional PAH compounds detected above TOGS that were either not detected or not found above TOGS in the June 2004 report.

Conclusions

The VOC data is generally consistent with that reported in the January 2004 data. Given their low solubility, the occurrence of PAH's in the December 2004 sampling round is likely representative of elevated turbidity levels observed in these samples. Due to the fine-grained soils found at the site, turbidity levels were observed at well above 50 NTU in groundwater samples.

Complete analytical results for the December 2004 sampling round and for the June 2004 site report are provided as Table 1 and Table 2 respectively for further comparison. Analytical laboratory data sheets for the December 2004 sampling round with chain-of-custody documentation are provided as Attachment A.

Please call if you have any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc

cc: Jerry Swart
Robert Dengler

TABLE 1

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
DECEMBER 29, 2004

SAMPLE ID:	NYSDEC TOGS Guidance Values	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004	12/29/2004
VOCs (ppb) - EPA Method 8021								
Methyl tert-butyl ether	10	NS	2	< 1	< 1	< 1	< 1	< 1
Benzene	0.7	NS	**52**	**4**	< 1	< 1	< 1	**22**
Toluene	5	NS	3	< 1	< 1	< 1	< 1	**9**
Ethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**7**
M&P-Xylenes	--	NS	< 2	< 2	< 2	< 2	< 2	20
O-Xylene	--	NS	2	< 1	< 1	< 1	< 1	12
Total Xylenes	5	NS	< 3	< 3	< 3	< 3	< 3	**32**
Isopropylbenzene	5	NS	3	4	< 1	< 1	< 1	< 1
n-Propylbenzene	5	NS	1	3	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	**6**
1,2,4-Trimethylbenzene	5	NS	3	< 1	< 1	< 1	< 1	**16**
sec-Butylbenzene	5	NS	< 1	2	< 1	< 1	< 1	< 1
p-Isopropyltoluene	5	NS	< 1	< 1	< 1	< 1	< 1	3
n-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene (VOC)	10	NS	**62**	< 1	2	< 1	< 1	**200**
tert-Butylbenzene	5	NS	< 1	< 1	< 1	< 1	< 1	< 1
PAHs (ppb) - EPA Method 8270								
Naphthalene (PAH)	10	NS	**13**	< 1	< 1	< 1	< 1	**70**
Acenaphthylene	20	NS	7	< 1	< 1	< 1	< 1	< 1
Acenaphthene	20	NS	15	< 1	< 1	4	< 1	7
Fluorene	50	NS	19	< 1	< 1	4	< 1	4
Phenanthrene	50	NS	**93**	2	1	3	1	9
Anthracene	50	NS	29	< 1	< 1	< 1	< 1	2
Fluoranthene	50	NS	45	2	3	3	2	4
Pyrene	50	NS	**82**	3	4	3	2	4
Benzo(a)anthracene	0.002	NS	**27**	**1**	**2**	**2**	< 1	**2**
Chrysene	0.002	NS	**21**	**1**	**2**	**2**	< 1	**2**
Benzo(b)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(k)fluoranthene	0.002	NS	**18**	< 1	**1.5**	**1.5**	< 1	**1.5**
Benzo(a)pyrene	0.002	NS	**19**	< 1	**2**	**1**	< 1	**1**
Ideno(1,2,3-cd)pyrene	0.002	NS	**7**	< 1	< 1	< 1	< 1	< 1
Dibenzo(a,h)anthracene	50	NS	2	< 1	< 1	< 1	< 1	< 1
Benzo(ghi)perylene	5	NS	**7**	< 1	< 1	< 1	< 1	< 1

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

TOGS	Technical and Operational Guidance Series # 1.1.1
<	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit
NS	Not sampled

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FEDEX GROUND
300 MASPETH AVENUE
BROOKLYN, NEW YORK
JANUARY 6, 2004

SAMPLE ID:	NYSDEC Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
SAMPLE DATE:		1/6/2004	1/6/2004	1/6/2004	1/6/2004	1/6/04 & 1/9/04	1/6/2004	1/6/2004
VOCs (ppb) - EPA Method 8021								
Benzene	0.7	-	**10**	-	-	-	-	**20**
Toluene	5	-	-	-	-	-	-	2
Ethylbenzene	5	-	**7**	-	-	-	-	**7**
M&P-Xylenes	--	-	-	3	-	-	-	23
O-Xylene	--	21	-	2	-	-	-	12
Total Xylenes	5	**21**	-	5	-	-	-	**35**
Isopropylbenzene	5	-	3	-	-	-	-	-
n-Propylbenzene	5	-	1	-	-	-	-	1
1,3,5-Trimethylbenzene	5	**13**	1	-	-	-	-	5
1,2,4-Trimethylbenzene	5	-	2	3	-	-	-	**12**
sec-Butylbenzene	5	-	-	-	-	-	-	-
p-Isopropyltoluene	5	1	-	4	-	-	-	2
n-Butylbenzene	5	-	-	-	-	-	-	-
Naphthalene (VOC)	10	-	**93**	-	-	-	-	**52**
tert-Butylbenzene	5	-	-	-	-	-	-	-
Methyl tert-butyl ether	10	1	-	-	-	-	-	2
PAHs (ppb) - EPA Method 8270								
Acenaphthene	20	-	6	2	-	-	-	3
Fluorene	50	-	6	1	-	-	-	2
Phenanthrene	50	-	12	2	-	-	-	4
Anthracene	50	-	4	-	-	-	-	-
Fluoranthene	50	-	4	-	-	-	-	-
Pyrene	50	-	4	-	-	-	-	-
Benzo(a)anthracene	0.002	-	**1**	-	-	-	-	-
Chrysene	0.002	-	**1**	-	-	-	-	-
Benzo(b)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(k)fluoranthene	0.002	-	-	-	-	-	-	-
Benzo(a)pyrene	0.002	-	-	-	-	-	-	-
Ideno(1,2,3-cd)pyrene	0.002	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	50	-	-	-	-	-	-	-
Benzo(ghi)perylene	5	-	-	-	-	-	-	-
Naphthalene (PAH)	10	**97**	**43**	3	-	-	-	**28**

NOTES:
Samples analyzed by EcoTest Laboratories, Inc. of North Babylon, NY
Results reported on a dry weight basis to 2 significant figures
Concentrations shown in bold type face exceed NYSDEC Groundwater Standards

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/l)
--	No standard established
MDL	Method Detection Limit

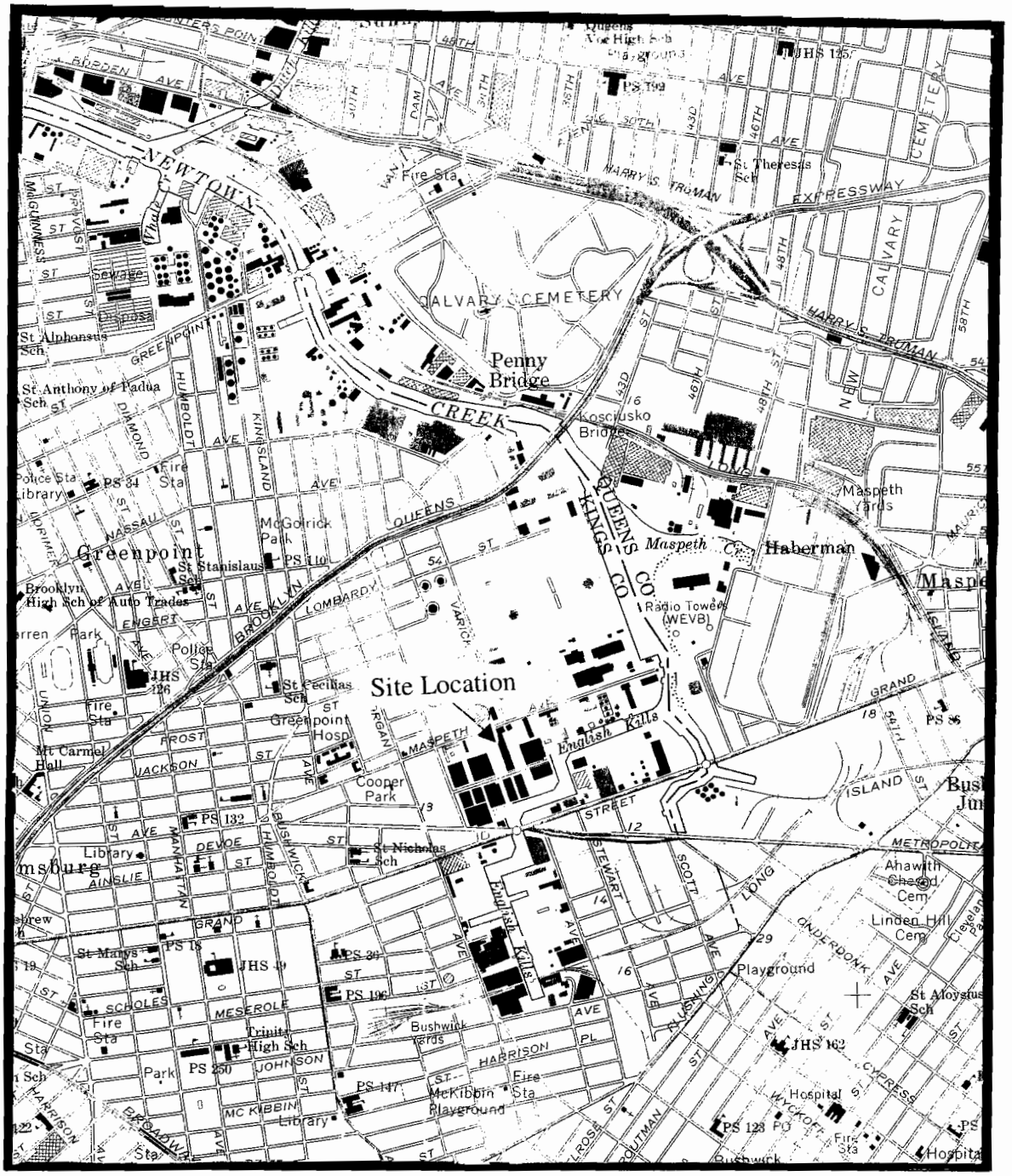
FIGURES

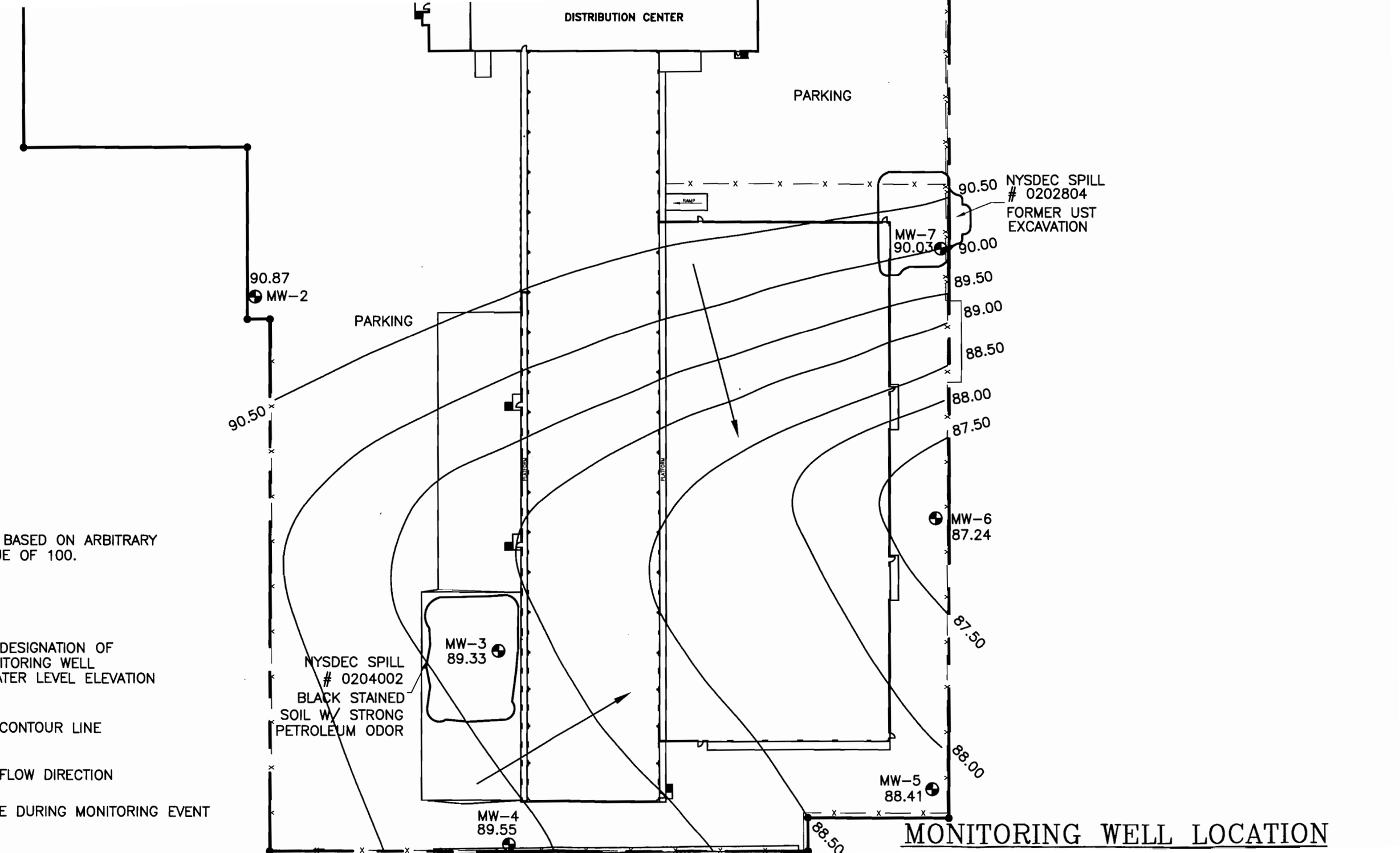
Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

BROOKLYN, NEW YORK


Site Location
Penny Bridge
Kosciusko Bridge
CALVARY CEMETERY
NEWTOWN CREEK
Greenpoint
Maspeth
Haberman
Maspeth Yards
Bushwick Yards
Cooper Park
McGolrick Park
Playground
McKibbin Playground
Radio Towers (WEVB)
Greenpoint Hosp
Trinity High Sch
Brooklyn High Sch of Auto Trades
Mt Carmel Hall
Linden Hill Cem
Ahawath Chesed Cem
St Alphonsus Sch
St Anthony of Padua Sch
St Stanislaus Sch
St Cecilias Sch
St Nicholas Sch
St Marys Sch
St Theresas Sch
St Aloysius Sch
PS 34
PS 110
PS 132
PS 18
PS 250
PS 147
PS 196
PS 199
PS 123
JHS 126
JHS 49
JHS 125
JHS 162
Police Sta
Fire Sta
Library
Hospital
Sewage Disposal
Fire Sta
Police Sta
Fire Sta
Fire Sta
Fire


DISTRIBUTION CENTER
PARKING
PARKING
RAMP
90.50
NYSDEC SPILL
0202804
FORMER UST
EXCAVATION
MW-7
90.03
90.00
89.50
89.00
88.50
88.00
87.50
90.87
MW-2
90.50
MW-6
87.24
87.50
MW-3
89.33
NYSDEC SPILL
0204002
BLACK STAINED
SOIL W/ STRONG
PETROLEUM ODOR
88.00
MW-5
88.41
MW-4
89.55
88.50
BASED ON ARBITRARY
E OF 100.
DESIGNATION OF
ITORING WELL
ATER LEVEL ELEVATION
CONTOUR LINE
FLOW DIRECTION
E DURING MONITORING EVENT
MONITORING WELL LOCATION

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.01 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	2		01/07/05	1	EPA8021
Benzene	ug/L	52		01/07/05	1	EPA8021
Toluene	ug/L	3		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	3		01/07/05	1	EPA8021
m + p Xylene	ug/L	< 2		01/07/05	2	EPA8021
o Xylene	ug/L	2		01/07/05	1	EPA8021
Xylene	ug/L	< 3		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	3		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	1		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	3		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	62		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50807 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.01 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1200
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	13		01/04/05	1	EPA8270
Acenaphthylene	ug/L	7		01/04/05	1	EPA8270
Acenaphthene	ug/L	15		01/04/05	1	EPA8270
Fluorene	ug/L	19		01/04/05	1	EPA8270
Phenanthrene	ug/L	93		01/04/05	1	EPA8270
Anthracene	ug/L	29		01/04/05	1	EPA8270
Fluoranthene	ug/L	45		01/04/05	1	EPA8270
Pyrene	ug/L	82		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	27		01/04/05	1	EPA8270
Chrysene	ug/L	21		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	18	#*	01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	18	#*	01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	19	*	01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	7	*	01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	2	*	01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	7	*	01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =36 ug/L, unable to separate isomers.
*Estimated due to low internal standard recovery, *40%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 50808 NYSDOH ID # 10320

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LAB NO.245518.02 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
Benzene	ug/L	< 1		01/07/05	1	EPA8021
Toluene	ug/L	< 1		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
m + p Xylene	ug/L	< 2		01/07/05	2	EPA8021
o Xylene	ug/L	< 1		01/07/05	1	EPA8021
Xylene	ug/L	< 3		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	2		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50809 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.02 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1300
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthene	ug/L	< 1		01/04/05	1	EPA8270
Fluorene	ug/L	< 1		01/04/05	1	EPA8270
Phenanthrene	ug/L	1		01/04/05	1	EPA8270
Anthracene	ug/L	< 1		01/04/05	1	EPA8270
Fluoranthene	ug/L	3		01/04/05	1	EPA8270
Pyrene	ug/L	4		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
Chrysene	ug/L	2		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	2		01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

rn = 50810 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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LAB NO.245518.03 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1345

MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
Benzene	ug/L	< 1		01/07/05	1	EPA8021
Toluene	ug/L	< 1		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
m + p Xylene	ug/L	< 2		01/07/05	2	EPA8021
o Xylene	ug/L	< 1		01/07/05	1	EPA8021
Xylene	ug/L	< 3		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50811 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.03 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1345
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthene	ug/L	4		01/04/05	1	EPA8270
Fluorene	ug/L	4		01/04/05	1	EPA8270
Phenanthrene	ug/L	3		01/04/05	1	EPA8270
Anthracene	ug/L	< 1		01/04/05	1	EPA8270
Fluoranthene	ug/L	3		01/04/05	1	EPA8270
Pyrene	ug/L	3		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
Chrysene	ug/L	2		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	1		01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

rn = 50812 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.04 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1425
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
Benzene	ug/L	< 1		01/07/05	1	EPA8021
Toluene	ug/L	< 1		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
m + p Xylene	ug/L	< 2		01/07/05	2	EPA8021
o Xylene	ug/L	< 1		01/07/05	1	EPA8021
Xylene	ug/L	< 3		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50813 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.04 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1425
MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthene	ug/L	< 1		01/04/05	1	EPA8270
Fluorene	ug/L	< 1		01/04/05	1	EPA8270
Phenanthrene	ug/L	1		01/04/05	1	EPA8270
Anthracene	ug/L	< 1		01/04/05	1	EPA8270
Fluoranthene	ug/L	2		01/04/05	1	EPA8270
Pyrene	ug/L	2		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Chrysene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50814 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.05 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560

ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1525

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
Benzene	ug/L	4		01/07/05	1	EPA8021
Toluene	ug/L	< 1		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/07/05	1	EPA8021
m + p Xylene	ug/L	< 2		01/07/05	2	EPA8021
o Xylene	ug/L	< 1		01/07/05	1	EPA8021
Xylene	ug/L	< 3		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	4		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	3		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	2		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50815 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.05 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1525
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthene	ug/L	< 1		01/04/05	1	EPA8270
Fluorene	ug/L	< 1		01/04/05	1	EPA8270
Phenanthrene	ug/L	2		01/04/05	1	EPA8270
Anthracene	ug/L	< 1		01/04/05	1	EPA8270
Fluoranthene	ug/L	2		01/04/05	1	EPA8270
Pyrene	ug/L	3		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	1		01/04/05	1	EPA8270
Chrysene	ug/L	1		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50816 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.06 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1610
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/07/05	1	EPA8021
Benzene	ug/L	22		01/07/05	1	EPA8021
Toluene	ug/L	9		01/07/05	1	EPA8021
Ethyl Benzene	ug/L	7		01/07/05	1	EPA8021
m + p Xylene	ug/L	20		01/07/05	2	EPA8021
o Xylene	ug/L	12		01/07/05	1	EPA8021
Xylene	ug/L	32		01/07/05	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/07/05	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/07/05	1	EPA8021
135-Trimethylbenzene	ug/L	6		01/07/05	1	EPA8021
124-Trimethylbenzene	ug/L	16		01/07/05	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
p-Isopropyltoluene	ug/L	3		01/07/05	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021
Naphthalene(v)	ug/L	200		01/07/05	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/07/05	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 50817 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.245518.06 01/11/05

Gannett Fleming, Incorporated
P.O. Box 707
Locust Valley, NY 11560
ATTN: Anthony Vanatta PO#:

SOURCE OF SAMPLE: Fedex Maspeth Avenue, #43956
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/29/04 RECEIVED:12/30/04
TIME COL'D:1610
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	70		01/04/05	1	EPA8270
Acenaphthylene	ug/L	< 1		01/04/05	1	EPA8270
Acenaphthene	ug/L	7		01/04/05	1	EPA8270
Fluorene	ug/L	4		01/04/05	1	EPA8270
Phenanthrene	ug/L	9		01/04/05	1	EPA8270
Anthracene	ug/L	2		01/04/05	1	EPA8270
Fluoranthene	ug/L	4		01/04/05	1	EPA8270
Pyrene	ug/L	4		01/04/05	1	EPA8270
Benzo(a)anthracene	ug/L	2		01/04/05	1	EPA8270
Chrysene	ug/L	2		01/04/05	1	EPA8270
Benzo(b)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(k)fluoranthene	ug/L	1.5	#	01/04/05	1	EPA8270
Benzo(a)pyrene	ug/L	1		01/04/05	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/04/05	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/04/05	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/04/05	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 3 ug/L, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. • ENVIRONMENTAL TESTING
377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770 • Email: ecotestlab@aol.com

CHAIN OF CUSTODY RECORD

Client: Gannett Fleming
Address: 480 Forest Ave
Locust Valley NY 11560
Phone: (516) 671-8440 FAX: (516) 671-3349
Person receiving report: Anthony Vanatta
Sampled by: Anthony Vanatta
Source: Fedex Maspeth Ave
Job No.: 43956.

TYPE & NUMBER OF CONTAINERS

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	Stars VOC 8021	Stars SVOC 8270											QC Pkg Type (If Required)	Accelerated Turnaround Date Required	REMARKS-TESTS REQUIRED
Water	12/29/04	1200	MW-2	3	2	1													
↓	↓	1300	MW-4	↓	↓	↓													
↓	↓	~~[illegible]~~	MW-5 ✓ 13:45	↓	↓	↓													Standard
↓	↓	~~1525~~	MW-6 → 14:25	↓	↓	↓													turnaround
↓	↓	1525	MW-3	↓	↓	↓													
↓	↓	1610	MW-7	↓	↓	↓													

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Anthony Vanatta Representing: Gannett	12/29/04 1800	YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	Representing:

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

October 23, 2003
File # 39936

Jeff Vought
New York State Department
of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804

Dear Mr. Vought:

On behalf of FedEx Ground, Gannett Fleming is submitting the letter report, which provides additional soil data collected at the FedEx Ground facility located at 300 Maspeth Avenue, Brooklyn, New York. A site location map is provided as Figure 1. This letter provides a summary of the additional soil investigation that was recommended in our August 28, 2002 correspondence for the delineation of volatile organic compounds (VOCs) north and east of the former underground storage tanks (USTs). A site plan depicting the location of the former USTs and delineation soil borings is provided on Figure 2.

This report also addresses the closure of a 500-gallon UST (believed to have contained waste oil) discovered during the construction work at the site, and an interim remedial measure to remove the heavily impacted soil detected during the delineation investigation.

Delineation Investigation of VOCs under Spill 0202804: UST Area

The additional delineation of VOC impacts detected in the northern and eastern limits of the UST excavation was performed on November 6, 2002. The VOC delineation investigation was conducted using a GeoProbe unit to collect twelve soil samples within a 25-foot grid extending from the former UST excavation (Figure 2). Soil samples were screened vertically in two-foot intervals using a PID. Copies of the soil boring logs are attached. The samples exhibiting the highest PID readings from each boring were submitted for laboratory analysis of VOCs. Analysis of polynuclear aromatic hydrocarbons (PAHs) were also performed by the laboratory to assess Gannett Fleming's opinion that elevated concentrations of PAHs are indicative of background levels resulting from the urban fill used in the region of Brooklyn.

No VOCs were detected in the samples that exceeded the NYSDEC Recommended Soil Cleanup Objectives in the delineation soil borings. Laboratory analytical results are provided in Table 1, and the laboratory reports are also attached.

Continued . . .

The PAH analysis detected dibenzo(a,h)anthracene at 2,200 micrograms per kilogram (ug/kg), indeno(1,2,3-cd)pyrene at 4,800 ug/kg, benzo(a)pyrene at 12,000 ug/kg, benzo(b)fluoranthene at 11,000 ug/kg, benzo(k)fluoranthene at 11,000 ug/kg, chrysene at 14,000 ug/kg, and benzo(a)anthracene at 16,000 ug/kg in sample SB-1 (0-2'), which is above the background concentrations observed at the site. An interim remedial measure was carried out to excavate and remove this affected soil for off-site disposal. The subsequent post excavation soil sample SB-1 (3-4') contained these PAHs at concentrations ranging from 640 ug/kg of dibenzo(a,h)anthracene to 3,300 ug/kg of benzo(a)anthracene. The concentrations of PAHs in the post-excavation sample are consistent with the observed background concentrations for the site. Analytical results for PAHs are provided in Table 1.

Waste Oil UST Closure

On January 8, 2003, a 500-gallon UST was discovered in the vicinity of the former garage. Historical registration information for the site indicates this tank was a waste oil tank that had not been found until that time. One vertical fill pipe from the tank was observed and capped. Brookside Environmental Services opened and cleaned the tank and removed the tank for disposal as scrap steel. The tank contained a few inches of oily water and sludge, which was drummed and disposed of off-site.

No VOCs were detected above the NYSDEC Recommended Soil Cleanup Objectives in end point soil samples TP-1 (Waste Oil Tank 4') and WOT 6', which were collected adjacent to the waste oil UST. The end point samples contained PAHs above the Recommended Soil Cleanup Objectives, but at concentrations consistent with background concentrations observed at the site. The end point soil sample data are provided in Table 1.

Conclusions

Based on the data and the work completed, the following conclusions have been established:

1. VOC concentrations exceeding the NYSDEC Recommended Soil Cleanup Objectives were not found beyond the extent of the former gasoline UST excavation.
2. Concentrations of PAHs were detected above the NYSDEC Recommended Soil Cleanup Objectives. The PAH concentrations found in the soils away from bulk petroleum storage areas further support the opinion that the PAH concentrations are consistent with background levels in the urban fill throughout this region of Brooklyn.
3. One sample location (SB-1) contained carcinogenic PAHs at concentrations not representative of background concentrations found on the site. An interim remedial measure was completed to remove the impacted soil. A supplemental post excavation sample SB-1 (3-4') detected carcinogenic PAHs concentrations consistent with the site background levels, indicating the impacted soils had been removed.

Continued . . .

4. The 500-gallon waste oil UST found in the vicinity of the former garage at the site was removed, cleaned, and the tank and its residual contents disposed of off-site. End point soil samples collected adjacent to the waste oil UST found no impacts present above the site background levels.

Based on the findings of the delineation investigation, the interim remedial measure completed, and the waste oil tank closure, no further action is necessary for the soil on the site.

The construction activities on the FedEx Ground facility are expected to be completed by the end of October 2003. The installation of monitoring wells for the groundwater investigation is anticipated to begin in early November 2003, as proposed in the August 28, 2002 report, and groundwater data should be available in late November 2003.

Please call Gregory Ernst at (516) 671-8440 with any questions regarding this matter.

Yours truly,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY ERNST
Senior Scientist

STEPHEN R. HIX
Director, Environmental Services

cc: Jerry Swart, FedEx Ground
Daniel LaPorte, Esq., Fed Ex Ground
Jerry Cereghino, J.C. Duggan, Inc./Bria Realty Corp.
Michael G. Stingone, Esq., Cole Schotz Meisel Forman and Leonard, P.A.

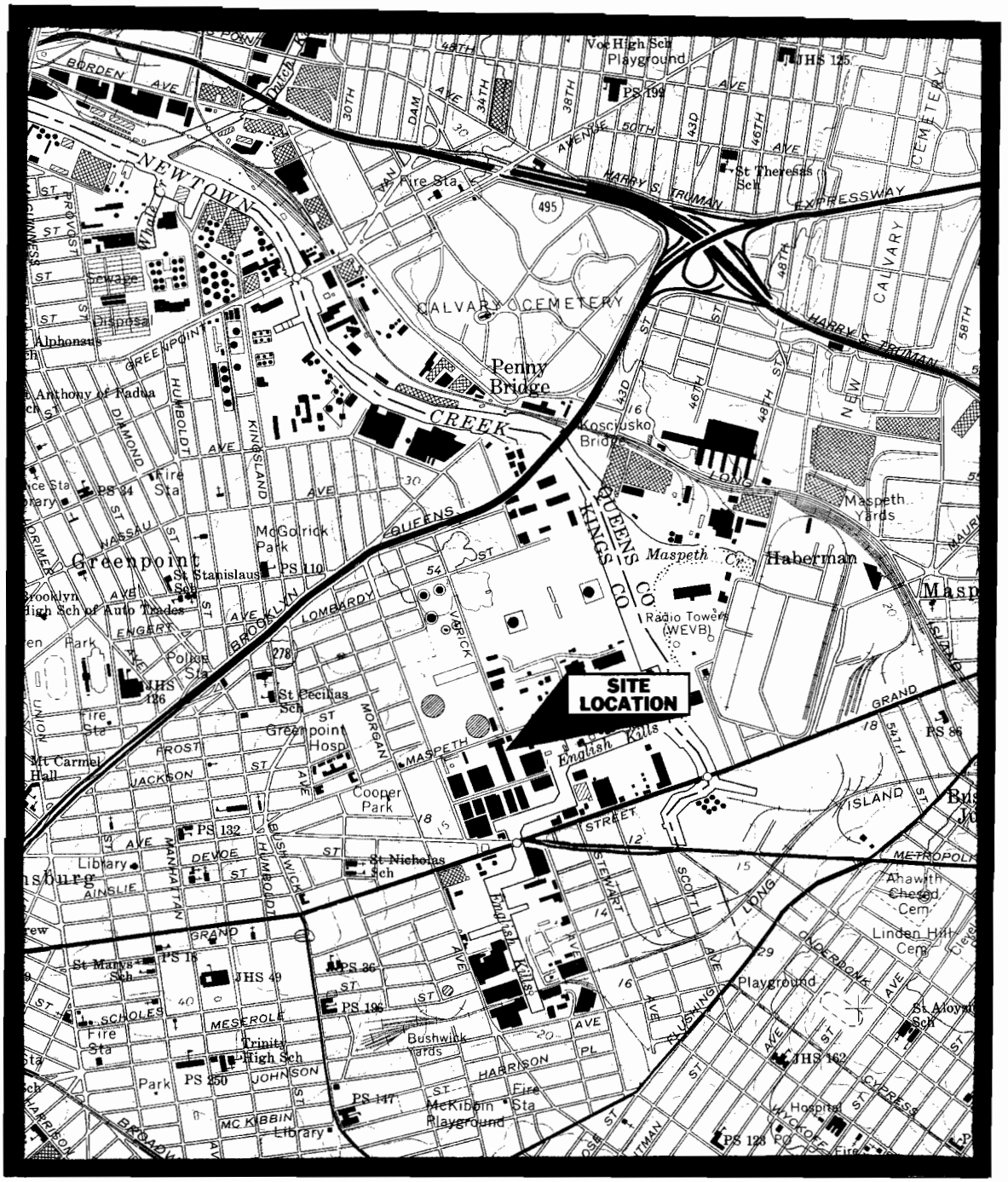
M:\CLERICAL\PROJECTS\39900\39936\jbw4684.doc

Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

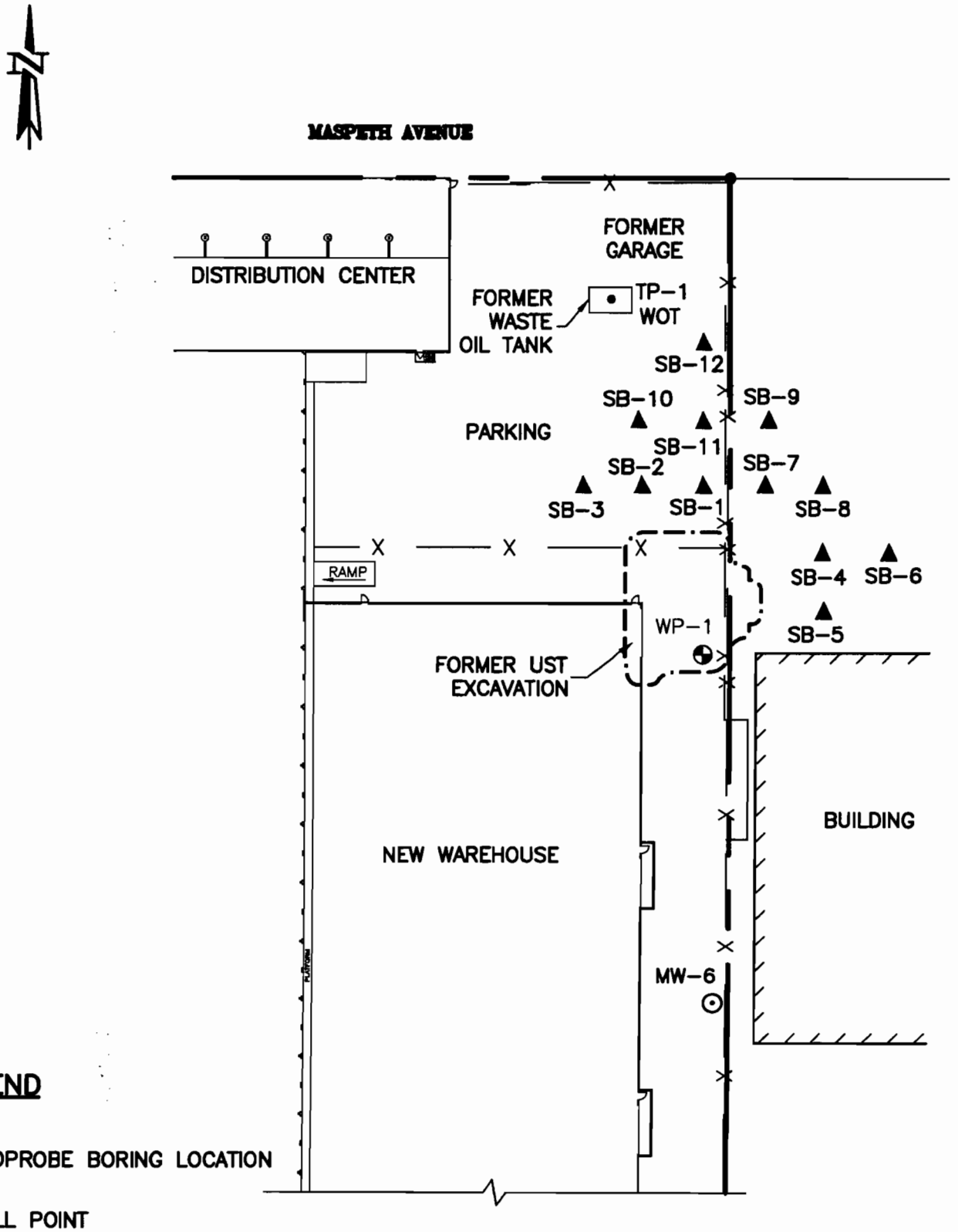
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP



SOIL BORING LOCATIONS

FEDEX GROUND

300 MASPETH AVE, BROOKLYN, NEW YORK

SN39936-2
101303

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-1 (0-2')	SB-1 (3-4')	SB-2 (2-4')	SB-3 (2-4')	SB-4 (2-4')
SAMPLE DATE:		11/6/02	5/23/03	11/6/02	11/6/02	11/6/02
Benzene	60 or MDL	<5.6	--	<5.5	<5.5	<2.2
Toluene	1,500	<5.6	--	<5.5	<5.5	<2.2
Ethylbenzene	5,500	6	--	<5.5	<5.5	<2.2
M&P-Xylenes[1]	1,200	14	--	<11	<11	<4.5
O-Xylene[1]	1,200	8	--	<5.5	<5.5	<2.2
Isopropylbenzene	2,300	23	--	<5.5	<5.5	<2.2
n-propylbenzene	3,700	41	--	<5.5	<5.5	<2.2
1,3,5-Trimethylbenzene	3,300	<5.6	--	<5.5	<5.5	<2.2
1,2,4-Trimethylbenzene	10,000	21	--	<5.5	<5.5	<2.2
sec-Butylbenzene	10,000	43	--	<5.5	<5.5	<2.2
p-Isopropyltoluene	10,000	<5.6	--	<5.5	<5.5	<2.2
n-Butylbenzene	10,000	42	--	<5.5	<5.5	<2.2
Naphthalene	13,000	200	--	<5.5	<5.5	<2.2
tert-Butylbenzene	NA	13	--	<5.5	<5.5	<2.2
Methyl tert-butyl ether	120	<5.6	--	<5.5	<5.5	<2.2
Naphthalene	13,000	3,400	450	<330	<330	<340
Acenaphthene	50,000	2,400	1,500	<330	<330	<340
Fluorene	50,000	8,600	950	410	350	<340
Phenanthrene	50,000	43,000	6,500	2,300	2,700	600
Anthracene	50,000	10,000	2,600	460	730	<340
Fluoranthene	50,000	37,000	8,600	3,000	2,100	800
Pyrene	50,000	29,000	8,600	2,400	4,100	890
Benzo(a)anthracene	224 or MDL	**16,000**	**3,300**	**1,100**	**1,800**	**460**
Chrysene	400	**14,000**	**3,200**	**1,200**	**1,800**	**550**
Benzo(b)fluoranthene	61 or MDL	**11,000**	**2,700**	**990**	**930**	**480**
Benzo(k)fluoranthene	610 or MDL	**11,000**	**2,700**	**990**	**930**	480
Benzo(a)pyrene	61 or MDL	**12,000**	**3,100**	**950**	**1,500**	**460**
Ideno(1,2,3-cd)pyrene	3,200	**4,800**	1,400	620	570	<340
Dibenzo(a,h)anthracene	14.3 or MDL	**2,200**	**640**	<330	**370**	<340
Benzo(ghi)perylene	50,000	4,100	1,400	620	700	<340

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-5 (2-4')	SB-6 (2-4')	SB-7 (4-6')	SB-8 (4-6')	SB-9 (6-8')
SAMPLE DATE:		11/6/02	11/6/02	11/6/02	11/6/02	11/6/02
Benzene	60 or MDL	<5.7	<5.7	<5.7	<5.6	<5.9
Toluene	1,500	<5.7	<5.7	<5.7	<5.6	<5.9
Ethylbenzene	5,500	<5.7	<5.7	<5.7	<5.6	<5.9
M&P-Xylenes[1]	1,200	<11	<11	<11	<11	<12
O-Xylene[1]	1,200	<5.7	<5.7	<5.7	<5.6	<5.9
Isopropylbenzene	2,300	<5.7	<5.7	<5.7	<5.6	<5.9
n-propylbenzene	3,700	<5.7	<5.7	<5.7	<5.6	<5.9
1,3,5-Trimethylbenzene	3,300	<5.7	<5.7	<5.7	<5.6	<5.9
1,2,4-Trimethylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
sec-Butylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
p-Isopropyltoluene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
n-Butylbenzene	10,000	<5.7	<5.7	<5.7	<5.6	<5.9
Naphthalene	13,000	<5.7	<5.7	<5.7	<5.6	<5.9
tert-Butylbenzene	NA	<5.7	<5.7	<5.7	<5.6	<5.9
Methyl tert-butyl ether	120	<5.7	<5.7	<5.7	<5.6	<5.9
Naphthalene	13,000	<340	<340	<340	<340	<350
Acenaphthene	50,000	<340	<340	<340	<340	560
Fluorene	50,000	<340	<340	<340	<340	610
Phenanthrene	50,000	1,600	480	730	1,100	4,900
Anthracene	50,000	380	<340	<340	360	1,200
Fluoranthene	50,000	1,800	530	1,500	1,800	6,900
Pyrene	50,000	1,800	520	1,600	1,700	6,900
Benzo(a)anthracene	224 or MDL	**920**	<340	**720**	**900**	**2,900**
Chrysene	400	**900**	<340	**770**	**870**	**3,100**
Benzo(b)fluoranthene	61 or MDL	**800**	<340	**630**	**730**	**2,500**
Benzo(k)fluoranthene	610 or MDL	**800**	<340	**630**	**730**	**2,500**
Benzo(a)pyrene	61 or MDL	**980**	<340	**780**	**750**	**2,600**
Ideno(1,2,3-cd)pyrene	3,200	540	<340	470	380	1,100
Dibenzo(a,h)anthracene	14.3 or MDL	<340	<340	<340	<340	**560**
Benzo(ghi)perylene	50,000	620	<340	550	370	990

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

TABLE 1.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA DELINEATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SB-10 (4-6')	SB-11 (4-6')	SB-12 (6-8')	TP-1 (Waste Oil Tank) 4'	WOT 6'
SAMPLE DATE:		11/6/02	11/6/02	11/6/02	1/8/03	5/23/03
[illegible]						
Benzene	60 or MDL	<6.1	<5.7	<5.9	<5.9	--
Toluene	1,500	<6.1	<5.7	<5.9	26	--
Ethylbenzene	5,500	<6.1	<5.7	<5.9	180	--
M&P-Xylenes[1]	1,200	<12	<11	<12	980	--
O-Xylene[1]	1,200	<6.1	<5.7	<5.9	420	--
Isopropylbenzene	2,300	<6.1	<5.7	<5.9	80	--
n-propylbenzene	3,700	<6.1	<5.7	<5.9	190	--
1,3,5-Trimethylbenzene	3,300	<6.1	<5.7	<5.9	350	--
1,2,4-Trimethylbenzene	10,000	<6.1	<5.7	<5.9	1,400	--
sec-Butylbenzene	10,000	<6.1	<5.7	<5.9	160	--
p-Isopropyltoluene	10,000	<6.1	<5.7	<5.9	140	--
n-Butylbenzene	10,000	<6.1	<5.7	<5.9	<5.9	--
Naphthalene	13,000	<6.1	<5.7	<5.9	390	--
tert-Butylbenzene	NA	<6.1	<5.7	<5.9	11	--
Methyl tert-butyl ether	120	<6.1	<5.7	<5.9	14	--
[illegible]						
Naphthalene	13,000	500	<340	690	530	<340
Acenaphthene	50,000	<370	<340	<350	<350	<340
Fluorene	50,000	<370	<340	530	<350	<340
Phenanthrene	50,000	<370	<340	2,600	2,500	2,200
Anthracene	50,000	<370	<340	810	810	600
Fluoranthene	50,000	<370	<340	3,300	4,600	3,100
Pyrene	50,000	<370	<340	2,900	5,800	3,900
Benzo(a)anthracene	224 or MDL	<370	<340	**1,500**	**2,900**	**1,700**
Chrysene	400	<370	<340	**1,600**	**3,200**	**1,700**
Benzo(b)fluoranthene	61 or MDL	<370	<340	**1,400**	**2,600**	**1,200**
Benzo(k)fluoranthene	610 or MDL	<370	<340	**1,400**	**2,600**	**1,200**
Benzo(a)pyrene	61 or MDL	<370	<340	**1,300**	**2,900**	**1,500**
Ideno(1,2,3-cd)pyrene	3,200	<370	<340	860	1,400	700
Dibenzo(a,h)anthracene	14.3 or MDL	<370	<340	**420**	**620**	<340
Benzo(ghi)perylene	50,000	<370	<340	910	1,400	760

NOTES:

--	Compound not analyzed.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
NA	No applicable standard established
MDL	Method Detection Limit

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 13		Sampled at 1' - 2' SB-1	1 - 4'	Slightly moist		Sandy silt: Large gravel, black staining.	Petroleum odor
2								
3								
4	~ 7			4' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground	Boring No.: SB-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001	Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	
Drilling Co: Associated Environmental Services Method: Direct push (Geoprobe) Personnel: Anthony Vanatta Total Depth: 8' Depth to Water:	Location of boring (not to scale)	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 9		Sampled at 2' - 4' SB-2	1' - 4'	Slightly moist		Silt: small gravel, 3% sand, brick pieces, black staining	Petroleum odor
2								
3								
4	~ 3			4' - 6'	Moist		Same as above	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Sand: medium grain, brown, with medium gravel to Silt: with black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 33		Sampled at 2' - 4' SB-3	1' - 4'	Moist		Silt: small gravel, brick pieces, 3% sand, black staining	Petroleum odor
2								
3								
4	~ 6			4' - 6'	Very moist		Silt: very moist, medium gravel, black staining	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Silt: clayey, grey, samll gravel, black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~4		Sampled at 2' - 4' SB-4	1' - 4'	Slightly moist		Silt: with 50% sand, medium gravel, brownish grey to black staining and brick pieces	Methane odor
2								
3								
4	0			4' - 8'	Moist		Silt: small gravel, black staining	Methane odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-5	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphlat	
1	~ 9		Sampled at 2' - 4' SB-5	1' - 4'	Slightly moist		Silt: small gravel, brick pieces	Petroleum odor
2								
3								
4	0			4' - 8'	Saturated		Same as above	
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-6	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 5		Sampled at 2' - 4' SB-6	1' - 4'	Slightly moist		Silt: small gravel , brick pieces, 3% sand	Petroleum odor
2								
3								
4	~ 2			4' - 8'	Moist		Same as above	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-7	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1				0 - 1'			Asphalt	
2	0			1' - 4'	Slightly moist		Silt: 3% sand, small gravel, brick pieces, brown with some staining	
3								
4								
5	0		Sampled at 4' - 6' SB-8	4' - 8'	Moist		Silt: brick pieces, small gravel, black staining	
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-8	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: small gravel, brick pieces, black staining	Petroleum odor
2								
3								
4	0		Sampled at 4' - 6' SB-8	4' - 8'	Slightly moist		Silt: small gravel, to coarse sand, organic debris	Slight petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-9	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: with 15% sand, small gravel, dark staining, brick pieces	
2								
3								
4	0			4' - 6'	Slightly moist		Silt: with 50% sand, small gravel, dark staining, brick pieces	
5								
6	~ 5		Sampled at 6' - 8 SB-9	6' - 8'	Saturated		Silt: with brick pieces, small gravel, dark staining	Slight petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-10	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: brick pieces, dark staining	Petroleum odor
2								
3								
4	~13		Sampled at 4' - 6' SB-10	4' - 8'	Moist		Silt: medium gravel, brick pieces	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-11	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1				1' - 4'			Did not record due mixing with muddy fill that was pushed over the area that day	
2								
3								
4	~4		Sampled at 4' - 6' SB-11	4' - 6'	Moist		Silt: medium gravel, brick pieces,	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground	Boring No.: SB-12	Gannett Fleming, Inc.	
Project # : 39936.001	Sheet 1 of 1	480 Forest Avenue	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	Locust Valley, NY 11560	
Drilling Co: Associated Environmental Services	Location of boring (not to scale)	(516) 671-8440	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8' Depth to Water:			

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1								
2								
3								
4								
5								
6								
7	~30			6' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor Sampled with excavator
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.01 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:0935

MATRIX:Soil SAMPLE: SB-1 (0'-2')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
enzene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
oluene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
Ethyl Benzene	ug/Kg	5.6		11/12/02	5.5555	EPA8021
+ p Xylene	ug/Kg	14		11/12/02	11.111	EPA8021
Xylene	ug/Kg	7.8		11/12/02	5.5555	EPA8021
Xylene	ug/Kg	22		11/12/02	16.666	EPA8021
sopropylbenzene	ug/Kg	23		11/12/02	5.5555	EPA8021
-Propylbenzene	ug/Kg	41		11/12/02	5.5555	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
124-Trimethylbenzene	ug/Kg	21		11/12/02	5.5555	EPA8021
ec-Butylbenzene	ug/Kg	43		11/12/02	5.5555	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.6		11/12/02	5.5555	EPA8021
n-Butylbenzene	ug/Kg	42		11/12/02	5.5555	EPA8021
aphthalene(v)	ug/Kg	200		11/12/02	5.5555	EPA8021
ert-Butylbenzene	ug/Kg	13		11/12/02	5.5555	EPA8021
Solids		90		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40196 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.01 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:0935
MATRIX:Soil SAMPLE: SB-1 (0'-2')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	3400		11/19/02	333.33	EPA8270
cenaphthene	ug/Kg	2400		11/19/02	333.33	EPA8270
Fluorene	ug/Kg	8600		11/19/02	333.33	EPA8270
Phenanthrene	ug/Kg	43000		11/19/02	333.33	EPA8270
nthracene	ug/Kg	10000		11/19/02	333.33	EPA8270
luoranthene	ug/Kg	37000		11/19/02	333.33	EPA8270
Pyrene	ug/Kg	29000		11/19/02	333.33	EPA8270
enzo(a)anthracene	ug/Kg	16000		11/19/02	333.33	EPA8270
hrysene	ug/Kg	14000		11/19/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	11000	#	11/19/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	11000	#	11/19/02	333.33	EPA8270
enzo(a)pyrene	ug/Kg	12000		11/19/02	333.33	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	4800		11/19/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	2200		11/19/02	333.33	EPA8270
enzo(ghi)perylene	ug/Kg	4100		11/19/02	333.33	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 22000 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.232577.01 06/02/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, Brooklyn, #39936.008
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:05/23/03 RECEIVED:05/28/03
TIME COL'D:1300

MATRIX:Soil SAMPLE: SB-1 3'-4'

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		05/29/03	384.61	EPA8270
cenaphthene	ug/Kg	1500		05/29/03	384.61	EPA8270
luorene	ug/Kg	950		05/29/03	384.61	EPA8270
Phenanthrene	ug/Kg	6500		05/29/03	384.61	EPA8270
nthracene	ug/Kg	2600		05/29/03	384.61	EPA8270
luoranthene	ug/Kg	8600		05/29/03	384.61	EPA8270
Pyrene	ug/Kg	8600		05/29/03	384.61	EPA8270
enzo(a)anthracene	ug/Kg	3300		05/29/03	384.61	EPA8270
hrysene	ug/Kg	3200		05/29/03	384.61	EPA8270
Benzo(b)fluoranthene	ug/Kg	2700	#	05/29/03	384.61	EPA8270
Benzo(k)fluoranthene	ug/Kg	2700	#	05/29/03	384.61	EPA8270
enzo(a)pyrene	ug/Kg	3100		05/29/03	384.61	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	1400		05/29/03	384.61	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	640		05/29/03	384.61	EPA8270
enzo(ghi)perylene	ug/Kg	1400		05/29/03	384.61	EPA8270
% Solids		78		05/29/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 5400 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 21424 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.02 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1000
MATRIX:Soil SAMPLE: SB-2 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
enzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Toluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Ethyl Benzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	10.989	EPA8021
Xylene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Xylene	ug/Kg	< 16		11/12/02	16.483	EPA8021
sopropylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Propylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ec-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
n-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
aphthalene(v)	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ert-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Solids		91		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40198 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.02 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1000

MATRIX:Soil SAMPLE: SB-2 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 330		11/19/02	329.67	EPA8270
cenaphthene	ug/Kg	< 330		11/19/02	329.67	EPA8270
Fluorene	ug/Kg	410		11/19/02	329.67	EPA8270
Phenanthrene	ug/Kg	2300		11/19/02	329.67	EPA8270
nthracene	ug/Kg	460		11/19/02	329.67	EPA8270
luoranthene	ug/Kg	3000		11/19/02	329.67	EPA8270
Pyrene	ug/Kg	2400		11/19/02	329.67	EPA8270
enzo(a)anthracene	ug/Kg	1100		11/19/02	329.67	EPA8270
hrysene	ug/Kg	1200		11/19/02	329.67	EPA8270
Benzo(b)fluoranthene	ug/Kg	990	#	11/19/02	329.67	EPA8270
Benzo(k)fluoranthene	ug/Kg	990	#	11/19/02	329.67	EPA8270
enzo(a)pyrene	ug/Kg	950		11/19/02	329.67	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	620		11/19/02	329.67	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330		11/19/02	329.67	EPA8270
enzo(ghi)perylene	ug/Kg	620		11/19/02	329.67	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1980 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 40199 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.03 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1035

MATRIX:Soil SAMPLE: SB-3 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
enzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
oluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Ethyl Benzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	10.989	EPA8021
Xylene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Xylene	ug/Kg	< 16		11/12/02	16.483	EPA8021
sopropylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
-Propylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ec-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
n-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
aphthalene(v)	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
ert-Butylbenzene	ug/Kg	< 5.5		11/12/02	5.4945	EPA8021
Solids		91		11/13/02	0.1	SM18 2540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40200 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.03 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1035

MATRIX:Soil SAMPLE: SB-3 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 330		11/19/02	329.67	EPA8270
cenaphthene	ug/Kg	< 330		11/19/02	329.67	EPA8270
Fluorene	ug/Kg	350		11/19/02	329.67	EPA8270
Phenanthrene	ug/Kg	2700		11/19/02	329.67	EPA8270
nthracene	ug/Kg	730		11/19/02	329.67	EPA8270
luoranthene	ug/Kg	2100		11/19/02	329.67	EPA8270
Pyrene	ug/Kg	4100		11/19/02	329.67	EPA8270
enzo(a)anthracene	ug/Kg	1800		11/19/02	329.67	EPA8270
hrysene	ug/Kg	1800		11/19/02	329.67	EPA8270
Benzo(b)fluoranthene	ug/Kg	930	#	11/19/02	329.67	EPA8270
Benzo(k)fluoranthene	ug/Kg	930	#	11/19/02	329.67	EPA8270
enzo(a)pyrene	ug/Kg	1500		11/19/02	329.67	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	570		11/19/02	329.67	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	370		11/19/02	329.67	EPA8270
enzo(ghi)perylene	ug/Kg	700		11/19/02	329.67	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1860 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 40201 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.04 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1125

MATRIX:Soil SAMPLE: SB-4 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
enzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
Toluene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
Ethyl Benzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
+ p Xylene	ug/Kg	< 4.5		11/08/02	4.4943	EPA8021
Xylene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
Xylene	ug/Kg	< 6.7		11/08/02	6.7415	EPA8021
sopropylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
-Propylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
124-Trimethylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
ec-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
n-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
aphthalene(v)	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
ert-Butylbenzene	ug/Kg	< 2.2		11/08/02	2.2471	EPA8021
Solids		89		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40202 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.04 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1125

MATRIX:Soil SAMPLE: SB-4 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	337.07	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Phenanthrene	ug/Kg	600		11/19/02	337.07	EPA8270
nthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
luoranthene	ug/Kg	800		11/19/02	337.07	EPA8270
Pyrene	ug/Kg	890		11/19/02	337.07	EPA8270
enzo(a)anthracene	ug/Kg	460		11/19/02	337.07	EPA8270
hrysene	ug/Kg	550		11/19/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	480	#	11/19/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	480	#	11/19/02	337.07	EPA8270
enzo(a)pyrene	ug/Kg	460		11/19/02	337.07	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
enzo(ghi)perylene	ug/Kg	< 340		11/19/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 960 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 40203 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.05 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1110

MATRIX:Soil SAMPLE: SB-5 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
Toluene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
Ethyl Benzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.494	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
Xylene	ug/Kg	< 17		11/12/02	17.241	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
n-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.7471	EPA8021
Solids		87		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40204 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.05 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1110

MATRIX:Soil SAMPLE: SB-5 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	344.82	EPA8270
Acenaphthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Phenanthrene	ug/Kg	1600		11/19/02	344.82	EPA8270
Anthracene	ug/Kg	380		11/19/02	344.82	EPA8270
Fluoranthene	ug/Kg	1800		11/19/02	344.82	EPA8270
Pyrene	ug/Kg	1800		11/19/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	920		11/19/02	344.82	EPA8270
Chrysene	ug/Kg	900		11/19/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	800	#	11/19/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	800	#	11/19/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	980		11/19/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	540		11/19/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	620		11/19/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1600 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.06 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1145

MATRIX:Soil SAMPLE: SB-6 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Toluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Ethyl Benzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.363	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Xylene	ug/Kg	< 17		11/12/02	17.045	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
n-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Solids		88		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40206 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.06 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1145

MATRIX:Soil SAMPLE: SB-6 (2'-4')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	340.90	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
luorene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Phenanthrene	ug/Kg	480		11/19/02	340.90	EPA8270
nthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
luoranthene	ug/Kg	530		11/19/02	340.90	EPA8270
Pyrene	ug/Kg	520		11/19/02	340.90	EPA8270
enzo(a)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
hrysene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(b)fluoranthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Benzo(k)fluoranthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
enzo(a)pyrene	ug/Kg	< 340		11/19/02	340.90	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
enzo(ghi)perylene	ug/Kg	< 340		11/19/02	340.90	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40207 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.07 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1210

MATRIX:Soil SAMPLE: SB-7 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
⁺er.ButylMethylEther	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
enzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Toluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Ethyl Benzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
+ p Xylene	ug/Kg	< 11		11/12/02	11.363	EPA8021
Xylene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Xylene	ug/Kg	< 17		11/12/02	17.045	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
n-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/12/02	5.6818	EPA8021
Solids		88		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40208 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.07 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1210

MATRIX:Soil SAMPLE: SB-7 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	340.90	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	340.90	EPA8270
Phenanthrene	ug/Kg	730		11/19/02	340.90	EPA8270
nthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
luoranthene	ug/Kg	1500		11/19/02	340.90	EPA8270
Pyrene	ug/Kg	1600		11/19/02	340.90	EPA8270
enzo(a)anthracene	ug/Kg	720		11/19/02	340.90	EPA8270
hrysene	ug/Kg	770		11/19/02	340.90	EPA8270
Benzo(b)fluoranthene	ug/Kg	630	#	11/19/02	340.90	EPA8270
Benzo(k)fluoranthene	ug/Kg	630	#	11/19/02	340.90	EPA8270
enzo(a)pyrene	ug/Kg	780		11/19/02	340.90	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	470		11/19/02	340.90	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	340.90	EPA8270
enzo(ghi)perylene	ug/Kg	550		11/19/02	340.90	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1260 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.08 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1230

MATRIX:Soil SAMPLE: SB-8 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
er.ButylMethylEther	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
enzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
Toluene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
thyl Benzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
+ p Xylene	ug/Kg	< 11		11/13/02	11.235	EPA8021
Xylene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
Xylene	ug/Kg	< 17		11/13/02	16.853	EPA8021
sopropylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
-Propylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
24-Trimethylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
ec-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
n-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
aphthalene(v)	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
ert-Butylbenzene	ug/Kg	< 5.6		11/13/02	5.6179	EPA8021
Solids		89		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40210 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.08 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1230

MATRIX:Soil SAMPLE: SB-8 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	337.07	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		11/19/02	337.07	EPA8270
Phenanthrene	ug/Kg	1100		11/19/02	337.07	EPA8270
nthracene	ug/Kg	360		11/19/02	337.07	EPA8270
luoranthene	ug/Kg	1800		11/19/02	337.07	EPA8270
Pyrene	ug/Kg	1700		11/19/02	337.07	EPA8270
enzo(a)anthracene	ug/Kg	900		11/19/02	337.07	EPA8270
rysene	ug/Kg	870		11/19/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	730	#	11/19/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	730	#	11/19/02	337.07	EPA8270
enzo(a)pyrene	ug/Kg	750		11/19/02	337.07	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	380		11/19/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	337.07	EPA8270
enzo(ghi)perylene	ug/Kg	370		11/19/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =1460 ug/Kg, unable to separate isomers.

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.09 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1245

MATRIX:Soil SAMPLE: SB-9 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
enzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
oluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Ethyl Benzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	11.764	EPA8021
Xylene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Xylene	ug/Kg	< 18		11/13/02	17.647	EPA8021
sopropylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Propylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
n-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
aphthalene(v)	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Solids		85		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40212 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.09 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1245

MATRIX:Soil SAMPLE: SB-9 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 350		11/19/02	352.94	EPA8270
cenaphthene	ug/Kg	560		11/19/02	352.94	EPA8270
Fluorene	ug/Kg	610		11/19/02	352.94	EPA8270
Phenanthrene	ug/Kg	4900		11/19/02	352.94	EPA8270
nthracene	ug/Kg	1200		11/19/02	352.94	EPA8270
luoranthene	ug/Kg	6900		11/19/02	352.94	EPA8270
Pyrene	ug/Kg	6900		11/19/02	352.94	EPA8270
enzo(a)anthracene	ug/Kg	2900		11/19/02	352.94	EPA8270
hrysene	ug/Kg	3100		11/19/02	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	2500	#	11/19/02	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	2500	#	11/19/02	352.94	EPA8270
enzo(a)pyrene	ug/Kg	2600		11/19/02	352.94	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	1100		11/19/02	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	560		11/19/02	352.94	EPA8270
enzo(ghi)perylene	ug/Kg	990		11/19/02	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =5000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 40213 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.10 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1400

MATRIX:Soil SAMPLE: SB-10 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
enzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
oluene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
Ethyl Benzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	12.195	EPA8021
Xylene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
Xylene	ug/Kg	< 18		11/13/02	18.292	EPA8021
sopropylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
-Propylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
135-Trimethylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
124-Trimethylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
ec-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
p-Isopropyltoluene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
n-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
aphthalene(v)	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
ert-Butylbenzene	ug/Kg	< 6.1		11/13/02	6.0975	EPA8021
Solids		82		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40214 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.10 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1400

MATRIX:Soil SAMPLE: SB-10 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	500		11/19/02	365.85	EPA8270
cenaphthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
luorene	ug/Kg	< 370		11/19/02	365.85	EPA8270
Phenanthrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
nthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
luoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
Pyrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(a)anthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
hrysene	ug/Kg	< 370		11/19/02	365.85	EPA8270
Benzo(b)fluoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
Benzo(k)fluoranthene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(a)pyrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 370		11/19/02	365.85	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 370		11/19/02	365.85	EPA8270
enzo(ghi)perylene	ug/Kg	< 370		11/19/02	365.85	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40215 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.11 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1500

MATRIX:Soil SAMPLE: SB-11 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
enzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
Toluene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
Ethyl Benzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
+ p Xylene	ug/Kg	< 11		11/13/02	11.494	EPA8021
Xylene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
Xylene	ug/Kg	< 17		11/13/02	17.241	EPA8021
sopropylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
-Propylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
ec-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
n-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
aphthalene(v)	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
ert-Butylbenzene	ug/Kg	< 5.7		11/13/02	5.7471	EPA8021
Solids		87		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40216 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.11 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1500

MATRIX:Soil SAMPLE: SB-11 (4'-6')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		11/19/02	344.82	EPA8270
cenaphthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
luorene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Phenanthrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
nthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
luoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Pyrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(a)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
hrysene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(a)pyrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	< 340		11/19/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		11/19/02	344.82	EPA8270
enzo(ghi)perylene	ug/Kg	< 340		11/19/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40217 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.12 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1520
MATRIX:Soil SAMPLE: SB-12 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
enzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
oluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Ethyl Benzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
+ p Xylene	ug/Kg	< 12		11/13/02	11.764	EPA8021
Xylene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Xylene	ug/Kg	< 18		11/13/02	17.647	EPA8021
sopropylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
-Propylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
p-Isopropyltoluene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
n-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
aphthalene(v)	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	< 5.9		11/13/02	5.8823	EPA8021
Solids		85		11/13/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 40218 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.225282.12 11/22/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:11/06/02 RECEIVED:11/07/02
TIME COL'D:1520

MATRIX:Soil SAMPLE: SB-12 (6'-8')

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	690		11/19/02	352.94	EPA8270
cenaphthene	ug/Kg	< 350		11/19/02	352.94	EPA8270
luorene	ug/Kg	530		11/19/02	352.94	EPA8270
Phenanthrene	ug/Kg	2600		11/19/02	352.94	EPA8270
nthracene	ug/Kg	810		11/19/02	352.94	EPA8270
luoranthene	ug/Kg	3300		11/19/02	352.94	EPA8270
Pyrene	ug/Kg	2900		11/19/02	352.94	EPA8270
enzo(a)anthracene	ug/Kg	1500		11/19/02	352.94	EPA8270
hrysene	ug/Kg	1600		11/19/02	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	1400	#	11/19/02	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	1400	#	11/19/02	352.94	EPA8270
enzo(a)pyrene	ug/Kg	1300		11/19/02	352.94	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	860		11/19/02	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	420		11/19/02	352.94	EPA8270
enzo(ghi)perylene	ug/Kg	910		11/19/02	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =2800 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 40219 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.230125.00 01/14/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/08/03 RECEIVED:01/09/03
TIME COL'D:1100

MATRIX:Soil SAMPLE: TP-1
waste oil UST

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	14		01/11/03	5.8823	EPA8021
enzene	ug/Kg	< 5.9		01/11/03	5.8823	EPA8021
oluene	ug/Kg	26		01/11/03	5.8823	EPA8021
Ethyl Benzene	ug/Kg	180		01/11/03	5.8823	EPA8021
+ p Xylene	ug/Kg	980		01/11/03	11.764	EPA8021
Xylene	ug/Kg	420		01/11/03	5.8823	EPA8021
Xylene	ug/Kg	1400		01/11/03	17.647	EPA8021
sopropylbenzene	ug/Kg	80		01/11/03	5.8823	EPA8021
-Propylbenzene	ug/Kg	190		01/11/03	5.8823	EPA8021
135-Trimethylbenzene	ug/Kg	350		01/11/03	5.8823	EPA8021
124-Trimethylbenzene	ug/Kg	1400		01/11/03	5.8823	EPA8021
ec-Butylbenzene	ug/Kg	160		01/11/03	5.8823	EPA8021
p-Isopropyltoluene	ug/Kg	140		01/11/03	5.8823	EPA8021
n-Butylbenzene	ug/Kg	< 5.9		01/11/03	5.8823	EPA8021
aphthalene(v)	ug/Kg	390		01/11/03	5.8823	EPA8021
ert-Butylbenzene	ug/Kg	11		01/11/03	5.8823	EPA8021
Solids		85		01/10/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 1096 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.230125.00 01/14/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, #39936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/08/03 RECEIVED:01/09/03
TIME COL'D:1100

MATRIX:Soil SAMPLE: TP-1

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	530		01/10/03	352.94	EPA8270
cenaphthene	ug/Kg	< 350		01/10/03	352.94	EPA8270
Fluorene	ug/Kg	< 350		01/10/03	352.94	EPA8270
Phenanthrene	ug/Kg	2500		01/10/03	352.94	EPA8270
nthracene	ug/Kg	810		01/10/03	352.94	EPA8270
luoranthene	ug/Kg	4600		01/10/03	352.94	EPA8270
Pyrene	ug/Kg	5800		01/10/03	352.94	EPA8270
Benzo(a)anthracene	ug/Kg	2900		01/10/03	352.94	EPA8270
hrysene	ug/Kg	3200		01/10/03	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	2600	#	01/10/03	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	2600	#	01/10/03	352.94	EPA8270
enzo(a)pyrene	ug/Kg	2900		01/10/03	352.94	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	1400		01/10/03	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	620		01/10/03	352.94	EPA8270
enzo(ghi)perylene	ug/Kg	1400		01/10/03	352.94	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 5200 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 1097 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.232577.02 06/02/03

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: Fed Ex Ground, Brooklyn, #39936.008
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:05/23/03 RECEIVED:05/28/03
TIME COL'D:1330

MATRIX:Soil SAMPLE: WOT 6'

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		05/29/03	337.07	EPA8270
cenaphthene	ug/Kg	< 340		05/29/03	337.07	EPA8270
luorene	ug/Kg	< 340		05/29/03	337.07	EPA8270
Phenanthrene	ug/Kg	2200		05/29/03	337.07	EPA8270
nthracene	ug/Kg	600		05/29/03	337.07	EPA8270
luoranthene	ug/Kg	3100		05/29/03	337.07	EPA8270
Pyrene	ug/Kg	3900		05/29/03	337.07	EPA8270
enzo(a)anthracene	ug/Kg	1700		05/29/03	337.07	EPA8270
hrysene	ug/Kg	1700		05/29/03	337.07	EPA8270
enzo(b)fluoranthene	ug/Kg	1200	#	05/29/03	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	1200	#	05/29/03	337.07	EPA8270
enzo(a)pyrene	ug/Kg	1500		05/29/03	337.07	EPA8270
ndeno(1,2,3-cd)pyrene	ug/Kg	700		05/29/03	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		05/29/03	337.07	EPA8270
enzo(ghi)perylene	ug/Kg	760		05/29/03	337.07	EPA8270
% Solids		89		05/29/03	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 2400 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 21425 NYSDOH ID # 10320

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

CALLER NAME: UGENE MARTIN **NOTIFIER'S NAME:** UGENE MARTIN

CLR'S AGENCY: MARTIN GEOCHEMESTRY **NOTIFIER'S AGENCY:** MARTIN GEOCHEMESTRY

CALLER'S PHONE: (718) 850-1600 **NOTIFIER'S PHONE:** (718) 850-1600

SPILL DATE: 04/09/1999 **SPILL TIME:** 12:00 pm

CALL RECEIVED DATE: 12/10/2002 **RECEIVED TIME:** 4:51 pm

SPILL LOCATION

PLACE: MR. AVILA **COUNTY:** New York

STREET: 60 HAMILTON TERRACE **TOWN/CITY:** New York City

COMMUNITY: MANHATTAN

CONTACT: SAME **CONTACT PHONE:** (917) 848-4889

SPILL CAUSE: Human Error **SPILL REPORTED BY:** Other

SPILL SOURCE: Tank Truck **WATERBODY:**

CALLER REMARKS:

CALLER STATES THAT THE TANK WAS OVERFILLED CALLER ALSO STATES THAT THE PROPERTY OWNER HAD TRIED TO REPORT THIS BUT WAS UNABLE TO DO SO FOR SOME REASON ALL DETAILS IN A COURT ACTION THAT HAS BEEN UNDERWAY LAWYER FOR RESIDENT IS MARK KRESSNER 718-584-8484

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
#2 Fuel Oil	Petroleum	90.00 G	0.00 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
ROBANI OIL & CRYSTAL OIL	ZZ	

Tank Number	Tank Size	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
12/11/2002-Vought-Called Ugene Martin and left message to call Demeo or Vought. Also called Dr. Eli N. Avila (917-848-4889) who is owner of property along with Banco Popular and according to Mr. Avila on 4/9/99 there was a large oil spill in basement by Robani Oil and Crystal Oil (subcontractor). According to Dr. Avila: Robani Oil's president (Mr. Robert Pearson-owner) came to site and told Avila that delivery could not be performed due to crack in whistle and that he would have to fix whistle. Mr. Avila told Mr. Pearson to fix whistle. Pearson came to site and replaced fill pipe instead of whistle. As a result basement was filled during delivery event. Robani was called and performed site visit. Free product was removed and sorbent was placed down. Odors still persist till this day. Mr. Avila called hotline in 4/99 and spoke to a Mr. Greene who referred him to DEP. DEP performed site vist and fined Mr. Robani for discharge to sewer. Mr. Avila is currently going to court for damages. Dr. Martin came and performed soil borings and sent soil samples for analysis.

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

12/17/2002-Vought-Site visit by Vought. Visual inspection of basement shows oil stains 2" above grade on drywall. Weathered fuel oil odors present in basement. One 1'x 1' excavation with water at depth of 6". No odor or sheen to water. On-site were Dr. Avila and Eugene Martin (consultant). According to Dr. Avila: 1) his lawyer will send him a copy of affadavit regarding admission of liability against Crystal and Robani oil companies 2) Robani/Crystal performed four soil borings in 4/02 3) Eugene Martin (consultant hired by Dr. Avila) performed four soil borings in 5/02. 4) no one is currently living in residence due to odors. NYSDEC requested of Dr. Avila: 1) Boring site plan and analyticals 2) affadavit from judge and all other documents regarding court decisions 3) copy of delivery receipt. NYSDEC inspected neighboring properties at 58 Hamilton Terrace (Troy White 212-694-0445) and Childrens Art Carnival at 62 Hamilton Terrace (Marline Martin 212-234-4093) and found no detectable odors or petroleum impacts.

12/20/02-Vought-Received boring site plan from Martin Geochemistry.

12/23/2002-Vought-Received affadavit, delivery receipt and analyticals from Dr. Avila.

1/8/2003-Vought-Review of documents provided by Dr. Avila. Vought spoke with Randall Austin who directed Vought to 1) investigate the call made to Mr. Greene at spills hotline on 4/9/99 and 2) foward file to David Rubinton (NYSDEC legal for review). Vought called Avila and left him message of directive.

1/8/2003-Vought-Vought instructed by Rubinton to contact RP to give them opportunity to clean spill. Vought called Robani Oil 212-687-8699 and left message for Mr. Pearson to call NYSDEC. Vought called Crystal Transportation 718-828-3100 and spoke with Mr. Frank Rizzo who said that message would be passed on to company owners. Mr. Rizzo could not say whether NYSDEC would receive a call back from Crystal and that further inquiries should be fowarded to Robani.

1/8/2003-Vought-Spoke with Robert Pearson who will turn call over to Chris Foley (attorney). Mr. Pearson stated that Robani will not institute remedial acivities due to possiblity of previous spills at Site. Vought also spoke with Rubinton who said to fill out case initiation form and send it to Region 2 legal.

1/9/2003-Vought-Gave case intiation form to David Rubinton (Region 2-legal). Vought spoke with supervisor Rommel who instructed to send do work letters to both oil companies and respective lawyers. Vought called Dr. Avila and informed him of case intiation and sending of do work order to Crystal, Robani and respective lawyers. Do work letters sent by Vought on 1/9/2003.

1/10/2003-Vought-Received letter fom Foley stating "they were interested in discussing and potentially resolving" issues of 1/9/2003 do work letter.

1/13/2003-Vought-Received fax from Chirstopher Foley (representing Robani Energy) who stated that after he spoke with representation of Crystal Transportation a contractor would be called to perform remediation. Vought recevied call from Brian Campbell (Vertex Engineering 781-952-6047) stating that he was called by Foley and was requesting list of contractors. Campbell will supervise contractors. Vought faxed list on 1/13/2003 and also suggested to Campbell that he contact Eugene Martin. Campbell will call back NYSDEC with contractor decision. Vought also gave Campbell names and contacts at NY State Dept of Health to certify reoccupation.

1/13/2003-Vought-Received message from Matt Spears (Kressner 718-584-8484) representing Dr. Avila requesting FOIL information. Vought called and left Spears message. Vought also received message from Eric Slessinger (Caroll & Mcnulty-212-868-9090x405) reresenting Crystal Transportation. Vought called Slessinger and left message to call NYSDEC.

1/14/2003-Vought-Received message from Spears requesting foil information. Vought called Spears and suggested postponing FOIL request until decision arrives from Foley and Robani Energy. Vought told Spears to call 1/21 for updates (after due date on Do Work letter) sent 1/9/2003.

1/15/2003-Vought-Received message from Eric Slessinger. Vought called Slessinger who received letter and said that he will call Rubinton to discuss legal issues. Slessinger stated that it would be difficult to obtain contactor by due date on Due Work letter because they were looking to seek action against other oil companies which delivered to Site before spill event. Vought will contact Rubinton before PIN job is opened.

1/17/2003-Vought-Received message from Foley. Vought called Foley and left message. Foley returned call who was in court on 1/16. According to Judge Marcy Friedman Robani/Crystal will have time before trial to clean spill. Trial is scheduled for 3/24/2003. Foley has called Miller and Milro and scheduled a possible site visit for Wed 2/22/2003. Vought called Avila and notified him of possible site visit date. Vought will call Kressner to facilitate site visit.

1/21/2003-Vought-Spoke to Foley and contractors will be Milro and Brookside. Will attempt to arrange site for tommorrow (212-363-1300) despite lack of response from Kressner or Avila. Vought called Kressner to facilitate visit and left message to return call to NYSDEC. Vought spoke with Kressner and site visit is arranged for tomorrow. Kressner left message for Foley approving of site visit.

2/4/2003-Vought- Spoke with Dr. Martin performed test bore under 58 Hamilton on 1/29/03 and found PID reading of 5ppm. Sample will be sent for analysis and will fax me analyticals. Vought called Foley (212-363-1300) for update on contractors and left message to call Vought back. Vought called Kressner and he is skeptical of results and does not believe in state supervision. Vought called Dr. Avila. According to Dr. Avila three consulting companies performed a site visit and no proposals were submitted. Vought will attempt to arrange meeting between Kressner, Foley, RObani, Avila, DOH, Landmarks, Martin to prevent PIN project from being opened. Vought arranged meeting for 2/27/2003.

2/5/2003-Vought-Received letter from Foley asking if DEC was instructing them to refrain from proceeding with

remediation until 2/27/2003 meeting.

2/7/2003-Vought-Letter sent by NYSDEC (Rubinton) to Kressner stating that failure of Avila to take actions to address petroleum discharges would subject Avila to liabilities as a responsible party.

2/11/2003-Vought-NYSDEC sent letter to Foley that pre-hearing conference for 2/19 is adjourned due to scheduled 2/27 meeting.

2/20/2003-Vought-Work proposals submitted by Brookside Environmental (environmental consultant) and H2M (structural engineer).

2/26/2003-Vought-Send work proposal review letter to Brookside and all involved parties requiring STARS 8260/8270 analyes, collection of endpoint samples, description of sampling methods, scaled Site plan and concrete encapsulation.

2/27/2003-Vought-Meeting at NYSDEC with Kressner,Foley , Stapleton, Landmarks, NYC Dept. of Heath, Martin, Robani. Meeting. All parties agreed that a structual engineer report will be produced by Vertex engineering (Scott Hamarich 631-758-1580). Vertex will be supervising Brookside. Engineer report will be sent to Landmarks and then to Dept. of Buildings for approval who will review report by 3/21. Copies of report will also be sent to DEC and Kressner. Brookside will also produce addendum to scope of work incorporating NYSDEC 2/26 proposal review letter comments.

3/7/2003-Vought-Received proposal from H2M (Michael McKeown-631-756-8000) who is structural engineer hired by Robani. Proposal approves basement excavation and aslo said that boring was performed by H2M and bedrock is at 2.5'. Vought sent letter to Dr. Martin requesting all previous boring logs, sample analyticals and sample depths.

3/18/2003-Vought-Spoke with Brian Stapleton submitted report to Kressner on 3/10. Stapleton has not yet received response from Kressner. Vought told Stapleton that Landmarks and DOB approval of structural report and final draft workplan to NYSDEC were needed as stated in meeting.

4/30/2003-Vought-Spoke with Dr. Avila who inquired about next step for remedial action despite private lawsuit between Avila and Oil companies. Vought told Avila to call Rubinton because Rubinton told Vought not to take any action until Rubinton gave approval.

12/10/03 - AUSTIN - PROJECT TRANSFERRED FROM VOUGHT TO SAWYER - END

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

12/2/04 - Sawyer - Received work proposal on 10/21 from Vinny at Island Environmental Tank.

1/6/05 - Sawyer - Talked to Melanie at Island Environmental Tank and answered her questions about offsite contamination. The subsurface investigation and delineation will encompass all areas associated with the spill.

5/31/05 - reassigned to Vought by Koon Tang since DEE needs technical support for enforcement action, and Chris Sawyer has just left the Department. - KST

9/12/05 - Obligado - Site transferred from Vought to Obligado.

PIN **T & A** **COST CENTER**

CLASS: C4 **CLOSE DATE:** **MEETS STANDARDS:** False

Gannett Fleming
Celebrating 90 years of Excellence

GANNETT FLEMING ENGINEERS, PC
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-5440
Toll Free: (800) 249-3337
Fax: (516) 671-3349
www.gannettfleming.com

March 24, 2006
File # 43956.051

Andre Obligado
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Well Abandonment
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Obligado:

As indicated in your December 22, 2005 letter, Gannett Fleming has conducted adequate investigation at the above referenced site and therefore Spill Numbers 0202804 and 0204002 have been closed. In response, the seven on-site monitoring wells have been properly abandoned.

On February 15, 2006, Gannett Fleming contracted Associated Environmental Services, Ltd. to abandon wells MW-1 through MW-7. The riser pipe and PVC screen were removed from each monitoring well and the open boreholes were backfilled with clean sand to a depth of two feet above the water table (based on water level measurements from the investigation). One foot of bentonite chips was subsequently poured on top of the sand fill and hydrated. The remainder of the each open borehole was filled with a cement/bentonite grout mixed at a ratio of one 50-pound bag of Portland cement to one 50-pound bag of bentonite to 10 gallons of water. The grout in each well was allowed to settle and then refilled to grade with the flush-mount manhole boxes left in place. The lids of the manhole boxes were removed in order to smooth the grout to grade.

Please do not hesitate to contact us with any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS, P.C.

ANTHONY T. VANATTA
Environmental Scientist

STEPHEN R. HIX
Director of Environmental Services

Attachments
cc: Robert Dengler (FedEx Ground)

R:\PROJECTS\43000\43900\43956 FedEx Ground\050 Maspeth Ave\Well Closure Letter.doc

NYSDEC SPILL REPORT FORM

DEC REGION#: 2 **SPILL NUMBER:** 0202804

SPILL NAME: **DEC LEAD:** JBVOUGHT

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"

10/15/04-Vought-File review by Vought:

Access Agreement-7/10/02. Access agreement for FedEx to remove USTs and portion of tankfield on adjacent property.

Letter from Testwell Labs(Pearce) to FedEx(Swart)-7/10/02. Work proposal for installation of nine soil borings, field screening of soil samples, conversion of three of the borings into monitoring wells, quarterly sampling of the wells and further excavation of the soil and piping.

Letter from Testwell Labs(Pearce) to DEC Vought-7/22/02. Soil "samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding had been removed..." Testwell recommends: 1)backfilling of UST excavation 2)SVOC's are due to fill material 3)if wells are deemed necessary "they are to be installed at a later date after site work (piles and foundations) is complete" 4)remaining vent lines terminate at surface level and remaining contaminated soil on adjacent property should be removed.
Letter from Gannett Fleming (Ernst) to DEC Vought-8/13/02. "This letter is intended to inform the NYSDEC of the projected site remediation activities." "Based on the endpoint soil data (samples WSW and SSW no further action is recommended for the soil beneath facility footprint which is currently under construcion". No groundwater monitoring wells are proposed inside the facility." Gannett Fleming will provide a comprehensive site investigation report on both the UST removal and for the "black tar like substance found in the southwestern portion of the site".

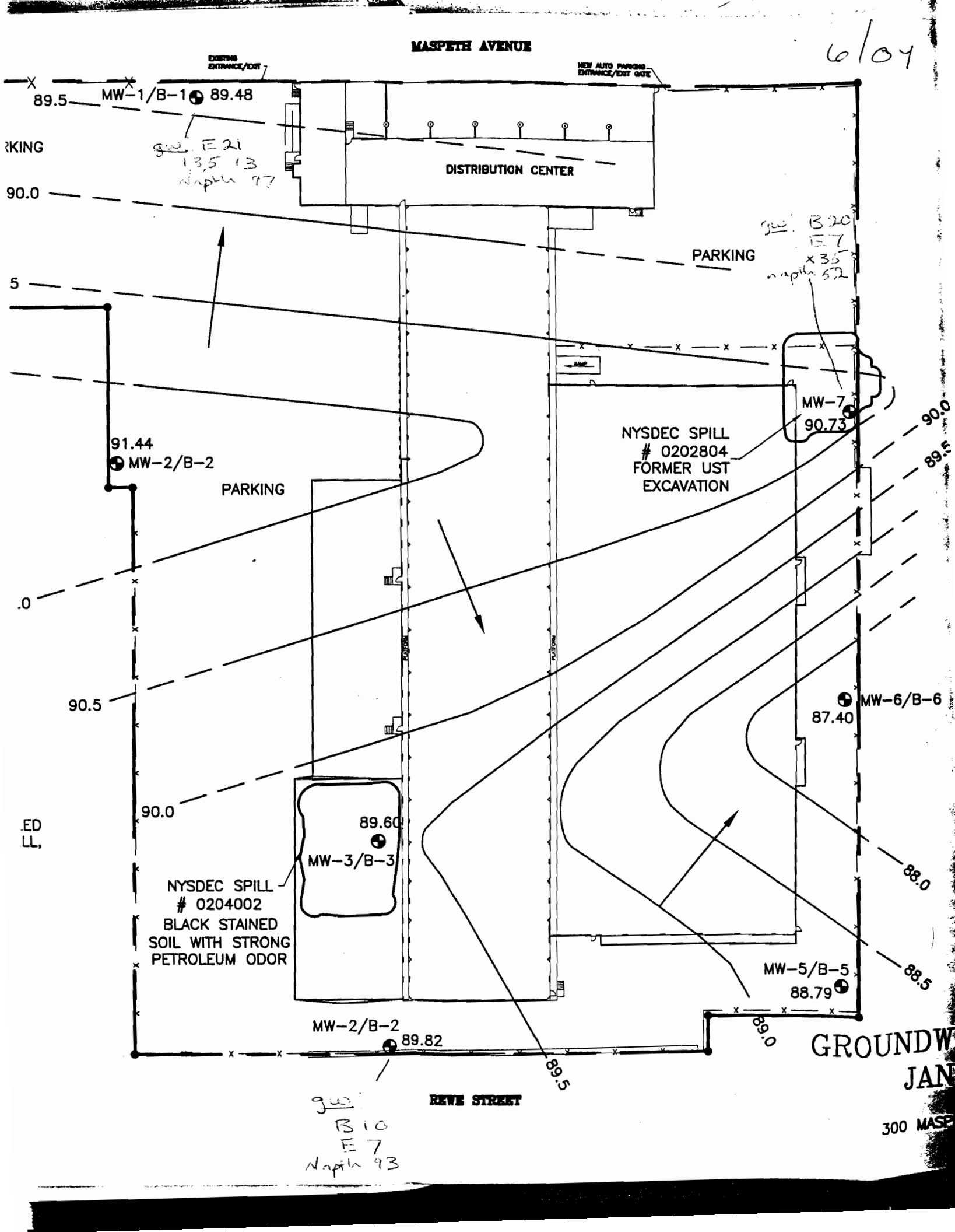
Report from Gannett Fleming to DEC Vought-8/28/04. "This letter provides a summary of the additional investigation activities and sample analysis that have taken place....." Removal of twenty (550-gallon) gasoline USTs and 900 tons of impacted soil. See above 7/22/02 entry for endpoint analyticals. Soil analyticals show 7750ppb 1,3,5-trimethylbenzene(WSW Wall) and 6470ppb xylene(WSW Wall), 110ppb benzene(vent x bottom), 110ppb benzene(Vent x sw), 120ppb benzene(n wall composite), 5900ppb 1,3,5-trimethylbenzene(n wall composite), 11000ppb 1,2,4-trimethylbenzene(n wall composite). Groundwater analytical from one well shows 40ppb benzene and 26ppb xylene. "Black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse". Seven test pits were dug to delineate the stained soil but no groundwater samples were collected. Report recommends: 1)no further actions for soils south and west of the former UST area 2)additional delineation north and east of the former UST area via Geoprobe 3)installation of six montoring wells (two upgradient and four downgradient). Investigation activities will be provided to DEC in a supplemental site investigation report. Soil analyticals shos PAH exceedences throughout site due to fill material.

Report from Gannett Fleming to DEC Vought-6/8/04. "This letter report documents the results of investigative activities conducted...." "A review of historic Sanborn maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. Installation of six monitoring wells. An additional well was installed to replace a well destroyed in the tankfield excavation. Groundwater at a depth of 8' below grade. "..groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site". Groundwater analyticals show 21ppb ethylbenzene(MW1), 13ppb 1,3,5-trimethylbenzene(MW1), 97ppb napthalene(MW1), 10ppb benzene(MW2), 7ppb ethylbenzene(MW2), 93ppb napthalene(MW2), 20ppb benzene(MW7), 7ppb ethylbenzene(MW7), 35ppb xylene(MW7), 52ppb napthalene(MW7). Soil analyticals showed no VOC exceedences and SVOC exceedences attributable to fill material. Report recommends: 1)no further action with respect to soil 2)no further action for onsite groundwater due to "poor regional groundwater quality". Report requests no further action. DEC requires: 1)one full year of groundwater monitoring prior to closure.

PIN: **T & A:** **COST CENTER:**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

Created On: 06/17/2002


MASPETH AVENUE
6/04
EXISTING ENTRANCE/EXIT
NEW AUTO PARKING ENTRANCE/EXIT GATE
89.5
MW-1/B-1
89.48
gw E21 13,5 13 Naph 97
DISTRICT CENTER
90.0
PARKING
gw B20 E7 x35 naph 52
MW-7
90.73
NYSDEC SPILL # 0202804 FORMER UST EXCAVATION
91.44
MW-2/B-2
PARKING
90.5
MW-6/B-6
87.40
90.0
89.60
MW-3/B-3
NYSDEC SPILL # 0204002 BLACK STAINED SOIL WITH STRONG PETROLEUM ODOR
88.0
88.5
MW-5/B-5
88.79
MW-2/B-2
89.82
89.0
89.5
REWE STREET
gw B10 E7 Naph 93
GROUNDW
JAN
300 MASP

0204002 NYSDEC INITIAL SPILL REPORT FORM 0204002
DEC Region: 2 - Long Island City Spill No.: 0204002

Spill Name :
Caller Info :
JERRY SWART
FED EX
(412) 262-6291

Lead DEC : Vought
Notifier Info :
JERRY SWART
FED EX
(412) 262-6291

Spill Date: 07/15/2002 CID#: 207 Call Received Date: 07/17/2002
Spill Time: 13:00 hrs. Call Received Time: 11:27 hrs.

	Material Spilled:	Class:	Spilled:	Recovered:
1)	UNKNOWN HAZARDOUS MATERIAL	HazMat	Unknown Gal	Unknown
2)				
3)				
4)				

Spill Location:

300 MASPATH AVE
BROOKLYN CO: Kings
Contact: JERRY SWART
Phone: (412) 262-6291

Potential Spiller Info:

Contact:
Phone:

Spill Cause: Unknown
Source: Unknown
Waterbody:

Resource Affected: On Land

Spill Reported by: Affected Persons

Caller Remarks:
black tarry substance

PBS Number:

	Tank Number	Tank Size	Test Method	Leak Rate
1)				
2)				
3)				

Classification: Meets Standards?: EDO: Y - N
□□UST Eligible?: Regional Close Date: / /

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Petroleum Bulk Storage Program

Facility Information Report

Printed : 07/22/2002

PBS # : 2-336319

Site : RPS, INC.
300 MASPETH AVENUE
300 MASPETH AVE
BROOKLYN, NY 11211
County : KINGS Town : NEW YORK CITY
Latitude : N Longitude : W
SPDES# : CBS# :
Site Type : Trucking/Transportation

Operator : RPS, INC. (718) 782-4848
Emergency : STEVEN WOLL (718) 782-4848

Site status : Subpart 360-14 Fac.
Total Active Tanks : 1
Active Capacity : 550 gals.

Reg Expires : 10/02/2002
Last Inspection : / /
Cert Printed : 05/07/1998

Site Errors : Complete
Owner Error : Complete
Tank Errors : Complete

Owner : RPS, INC
PO BOX 5459
AKRON, OH 44334-0459

Phone : (330) 665-2814
Owner Type : Corporate/Commercial

Mail : CALIBER SYSTEM, INC.
PO BOX 5459
AKRON, OH 44334-0459

Att : REGINA R. GODWIN (330) 665-2814

TankNo	TankLoc	Stat	DateIn	Capac (g)	Product	TankType	TankInt	TankExt	PipeLoc	PipeType	PipeInt	PipeExt	SecCont	Leak	OverFil	Disp	LastTest	NextTest	TStat
24	4	2	01/01/1965	550	C	1	0	00	0	0	0	00	00	00	00	0	/ /	/ /	1
001	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
002	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
003	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
004	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
005	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
006	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
007	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
008	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
009	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
010	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
011	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
012	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
013	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
014	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
015	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
016	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
017	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
018	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
019	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
020	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
021	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
022	4	4	01/01/1965	550	9	1							0	0		3	CLOSED:	01/01/1994	
023	4	5	12/01/1988	1,000	3	5	0	4	3	3	0	4	0	0	0	2	CONVERTED:	08/01/1996	

NYSDEC SPILL REPORT FORM

DEC REGION#: 2 **SPILL NUMBER:** 0202804

SPILL NAME: **DEC LEAD:** JBVOUGHT

CALLER NAME: CHARLIE SCHNUGG **NOTIFIER'S NAME:**

CLR'S AGENCY: TEST WELL LABORATORIES **NOTIFIER'S AGENCY:** CONTRACTOR

CALLER'S PHONE: (914) 944-2570 **NOTIFIER'S PHONE:**

SPILL DATE: 06/17/2002 **SPILL TIME:** 11:30 am

CALL RECEIVED DATE: 06/17/2002 **RECEVIED TIME:** 12:01 pm

SPILL LOCATION

PLACE: **COUNTY:** Kings

STREET: 300 MASPETH AV **TOWN/CITY:** New York City

COMMUNITY: BROOKLYN

CONTACT: **CONTACT PHONE:**

SPILL CAUSE: Equipment Failure **SPILL REPORTED BY:** Other

SPILL SOURCE: Commercial/Industrial **WATERBODY:**

CALLER REMARKS:

they were excavating a previously closed tank & came across it by the piping - they will excavate & stock pile the soil

MATERIAL	CLASS	SPILLED	RECOVERED	RECOURCES AFFECTED
Diesel	Petroleum	2 G	0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
	300 MASPETH AV BROOKLYN NY	

OTHER SPILLS / CLEANUPS / PBS AT SITE

FACILITY ID	SPILL NUMBER / PROGRAM NUMBER	CLOSE DATE	PROGRAM TYPE

Tank Number	Tank Size	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

PIN: **T & A:** **COST CENTER:**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

Created On: 06/17/2002

Date Printed: 10/18/2004 Last Updated: 10/18/2004

SITE ACCESS AGREEMENT

THIS AGREEMENT is made and entered into this 10th day of July, 2002 by and between **JC-DUGGAN, INC., BRIA REALTY CORPORATION**, its successors and assigns (collectively "Grantor"), with offices at 320 Maspeth Avenue, Brooklyn, New York (the "Property") and **FEDEX GROUND PACKAGE SYSTEM, INC.** ("FedEx"), with offices at 1000 FedEx Drive, Moon Township, Pennsylvania (Grantor and FedEx are hereinafter collectively referred to as the "Parties"),

WHEREAS FedEx requires access to the Property for the limited purpose of removing two (2) suspect underground fuel tanks and piping associated with FedEx's fuel system and installing, maintaining and sampling, at its sole cost, expense and risk, soil borings, test pits and temporary monitoring wells associated with investigative/remedial activities related to contamination emanating from the Neighboring Premises located at 300 Maspeth Avenue, Brooklyn, New York owned by FedEx (the "Work").

WHEREAS contamination having been identified on the 300 Maspeth Avenue, Brooklyn, NY premises (the "Neighboring Premises"), the Work is required to be supervised by the New York Department of Environmental Conservation ("NYDEC") to evaluate the nature and extent of said contamination.

WHEREAS FedEx has retained various contractors ("Agents") to perform the Work on FedEx's behalf; and

WHEREAS Grantor agrees to provide FedEx and its Agents, with access to the Property to perform the Work;

NOW THEREFORE, in consideration of the promises, mutual covenants and agreements contained herein, the Parties agree as follows;

1. Grantor hereby grants FedEx and its Agents, permission to enter upon the Property for the limited purpose of performing the Work. The Work shall be performed in accordance with all applicable statutes, ordinances, rules, regulations, orders and requirements of all Governmental Authorities.

2. FedEx and its Agents, shall:

a) perform the Work in a workmanlike manner and in accordance with industry standards and shall exercise all measures to conduct the Work so as to minimize the disturbance of existing conditions at the

Property;

b) minimize any business disruption by exercising all measures to limit the area of activity to the area in and around the suspected contamination; however, Grantor expressly agrees that FedEx and its Agents, are permitted to perform the Work during normal business hours (during weekdays only between 8:00 am-3:00 pm);

c) obtain all required utility mark-outs prior to conducting the Work and to take all measures necessary to prevent any disturbance or damage whatsoever to such utilities;

d) provide any necessary restoration work pursuant to Paragraph 7 of this Agreement;

e) at Grantor's request, provide Grantor with split samples of any samples taken in connection with the performance of the Work; and

f) upon completion of the Work, FedEx and its Agents, shall provide Grantor with a map showing the precise location of the sampling points and copies of reports of the analytical results of the sampling work.

3. Prior to commencing the Work at the Property, FedEx and its Agents, shall notify Grantor at least 24 hours prior to entry onto the Property, provide written notice describing the specific location, physical work, sampling to be conducted, and parameters for lab analysis, for which access is sought and must obtain Grantor's approval.

4. Any notice required under this Agreement shall be made by facsimile or overnight courier to both parties at the addresses listed below, or to any other addresses subsequently provided by the Parties. Notice shall be complete upon its receipt by the addressees listed below'

To Grantor: Michael G. Stingone, Esq.
Cole Schotz Meisel Forman and Leonard, P.A.
25 Main Street
Hackensack, NJ 07602
Facsimile No. (201) 678-6313

Jerry Cereghino
JC-Duggan, Inc./Bria Realty Corp.
320 Maspeth Avenue
Brooklyn, NY 11211
Facsimile No. (718) 599-5941

To FedEx: Daniel LaPorte, Esq.
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108
Facsimile No. (412) 859-5450

Jerry Swart
FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108
Facsimile No. (412) 859-5450

5. All equipment necessary to perform the Work and any needed restoration work must be removed from the Property on a daily basis at the conclusion of work for that day. If necessary to complete the Work, FedEx shall be responsible for moving the 20-foot ocean freight container located on the Property, utilized for storage purposes, to a temporary location approved by Grantor. Upon completion of the Work, FedEx will replace said container in its original location.

6. Following completion of the Work, FedEx or its Agents, shall restore the Work area to substantially the same condition existing prior to commencement of their entry onto the Property, including the removal of all equipment used in the performance of the Work. Restoration shall include:

a) replacement of the excavated soils with compacted, certified clean fill material;

b) replacement of any removed or damaged landscaping; and

c) replacement of any pavement, including, as necessary, parking lines, signs, or any other parking accouterments.

7. FedEx and its Agents, shall provide Grantor with copies of any correspondence with the NYDEC regarding the Work within 5 business days of the date

of such correspondence.

8. This Agreement obligates FedEx to be responsible for the investigative and remedial costs associated with the contamination emanating from the Neighboring Premises, which may be migrating onto the Property.

9. FedEx hereby releases and discharges and shall defend, indemnify and hold Grantor harmless from any and all damages, demands, losses, claims, liabilities and penalties, including attorney's fees and costs, whether brought against Grantor by third-parties who do not have a contractual relationship with Grantor, including governmental entities, or by third parties with whom Grantor has contracted, in each case, caused by the performance of the Work or other activity by FedEx or its Agents in the vicinity of the Property in connection with the performance of the Work, including liability for the remediation of any environmental contamination which is emanating or which emanated from the Neighboring Premises or caused by FedEx, but excluding liability for any pre-existing contamination found on the Property not caused by FedEx. Grantor shall notify FedEx in writing of any indemnity claim arising under this paragraph 9 and give FedEx the opportunity to defend.

10. Each Agent(s) shall maintain Comprehensive General Liability ("CGL"), with a minimum limit of $5,000,000, and Workmen's Compensation policies. Said policies are incorporated herein by reference. All premiums or other costs associated with the required insurance shall be borne solely by Agent(s). Grantor will be named on the Certificate of Insurance for Agent(s)'s CGL policy as an additional insured and shall provide the certificates to Grantor's counsel prior to commencing the Work.

11. This Agreement is not intended to, and does not, create any form of agency relationship between Grantor and FedEx and its Agents.

12. This Agreement is solely for the benefit of the Parties, and it shall not be transferable, assignable, or otherwise alienable, to any other party without prior written consent of the Parties.

13. The right to access conferred by this Agreement is terminable by Grantor immediately upon notice to FedEx and shall not be construed as any form of interest in the Property, including, but not limited to, an ownership, tenancy and/or operational interest.

14. This Agreement is the complete and exclusive statement of the terms and conditions hereof, notwithstanding any representations or statements to the contrary

heretofore made. Any modifications to this Agreement shall be in writing, executed by both Parties and shall specifically state that it is such a modification.

15. The parties to this Agreement represent that they have read and understand its terms. Each party, if so desired, has been advised by counsel as to its meaning and legal implications and freely executes this Agreement.

16. Each person executing this Agreement represents that the party on whose behalf the person is executing this Agreement has duly authorized the execution of this Agreement and that such person is authorized to execute the Agreement on behalf of such party.

17. This Agreement may be executed in several counterparts, each of which may be deemed an original, and all of such counterparts together shall constitute one and the same Agreement.

18. This Agreement may be executed by facsimile transmission and shall be deemed to have been executed and delivered by each party on the date so transmitted to the other party, and in such event, each party will promptly furnish to the other party, an original counterpart hereof executed by such party.

IN WITNESS HEREOP, the Parties hereto have executed, or caused to be executed, this Agreement as of the date and year first written below.

JC-DUGGAN, INC.

_____ By: _____
Date Name: _____
Title: _____

BRIA REALTY CORPORATION

_____ By: _____
Date Name: _____
Title: _____

FEDEX GROUND PACKAGE SYSTEM, INC.

7-10-02
Date

By:
Name: Jerry C. Swart, P.E.
Title: Managing Director-Environmental Services

1241753 6

TESTWELL℠ LABORATORIES, INC.
Total Commitment to Quality

A Minority Business Enterprise

47 Hudson Street, Ossining, New York 10562
Tel: (914)-762-9000 • Fax: (914)-762-9638 • testwelllabs.com

Offices in
Albany, NY
Queens, NY
Woodbridge, NJ
Miami, FL

July 10, 2002

Mr. Jerry Swart, Managing Director, Environmental Services
FedEx Ground
Environmental Services Department
1000 FedEx Drive
Moon Township, PA 15108

Certifications & Accreditations

Regarding: FedEx Ground Facility
300 Maspeth Ave, Brooklyn, NY
Soil Boring Work Plan

Dear Mr. Swart:

ISO 9001 CERTIFIED

On or about July 11, 2002 Testwell Laboratories, Inc. (TLI) will conduct a soil boring operation to delineate the extent of petroleum contamination regarding the above referenced site. Prior to the start of work the area must be free from equipment and debris, also all utilities will be marked out through the "One Call" Service.

The work activities are as follows:

NVLAP
NVLAP LAB CODE 200083-0

1. Initially TLI proposes to perform a total of nine soil borings around the tank pit area, three of which will be converted into ground water monitoring wells.
2. Field soil screening will be performed for each boring and additional borings may be required to delineate the extent of contamination extending out radially and staggered from the initial borings.
3. Three of the borings will be converted into monitoring wells (one well will be on the adjacent property - Duggan). These wells will be capped and two will extend above ground level and one will be flush mounted with the asphalt (adjacent property).
4. The wells will be sampled on a quarterly basis for a minimum period of one year therefore access must be provided for that time.
5. After the pit has been filled in (to minimize undermining) the vent pipes and soil around them will be removed in an effort to dispose of the gross contamination.

AAP
AASHTO R18

NYS DOH ELAP #10871, 11142 & 11651

Testwell Laboratories, Inc. Ossining, NY is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program CERT. NO. 100147

TESTWELL™
LABORATORIES, INC.

Mr. Jerry Swart, Managing Director, Environmental Services
RE: FedEx Ground
300 Maspeth Avenue
Soil Boring Work Plan

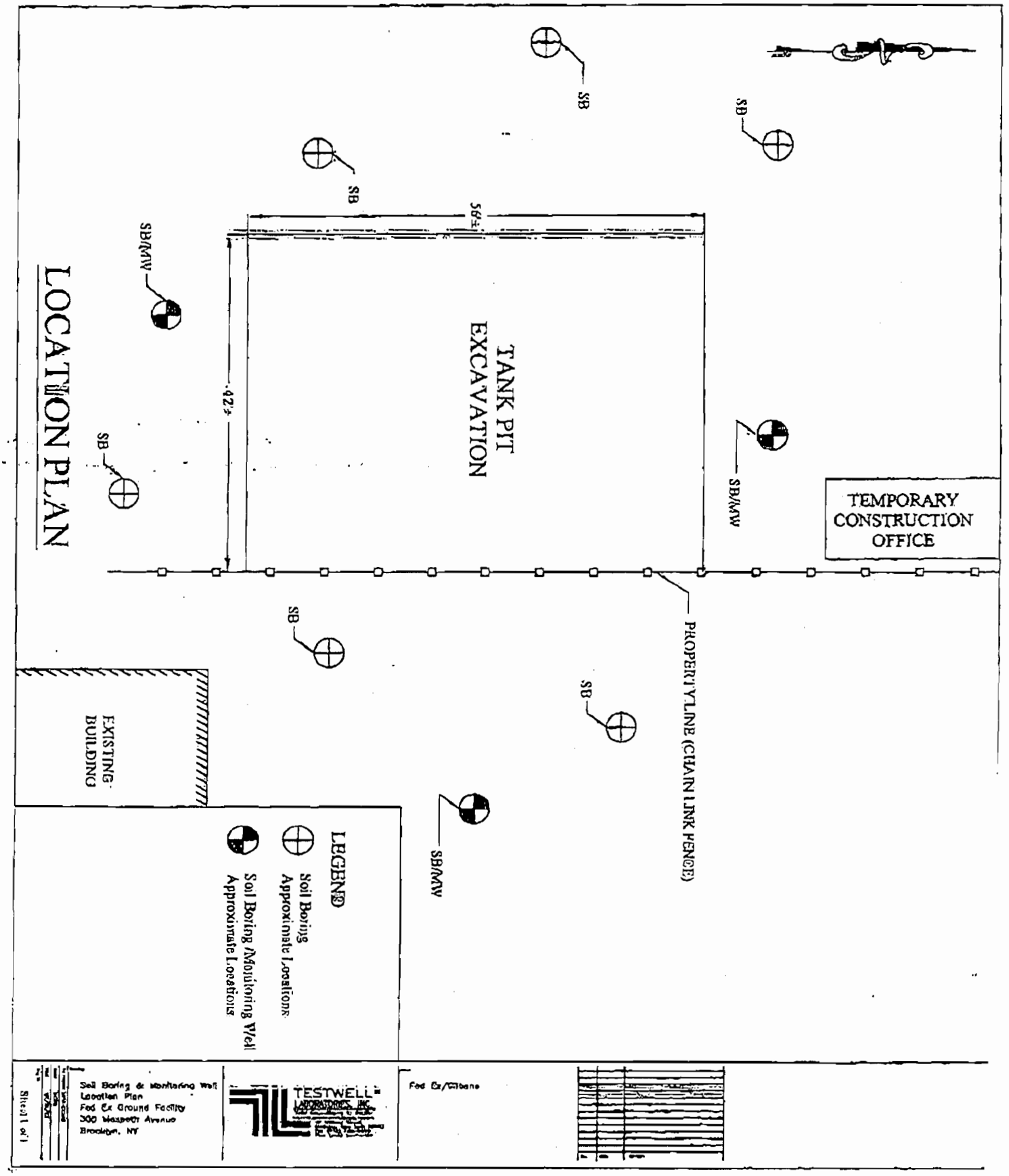
July 10, 2002
Page 2 of 2

TLI will obtain soil and water samples from the borings/monitoring wells and have them analyzed using EPA Method 8021 & 8270 (STARS) in addition to Lead and MTBE to determine quantity and characterization of the contamination. After the sample results have been reviewed a recommendation will be made whether to install a remediation system or continue excavation to clean soil.

If you have any questions regarding this matter please do not hesitate to call us at (914) 944-2592.

Sincerely,

Dean Pearce
Environmental Manager


LOCATION PLAN
SB
SB
SB
SB/MW
SB/MW
SB
SB
SB
SB/MW
SB/MW
58'±
42'±
TANK PIT EXCAVATION
TEMPORARY CONSTRUCTION OFFICE
PROPERTY LINE (CHAIN LINK FENCE)
EXISTING BUILDING
LEGEND
Soil Boring
Approximate Locations
Soil Boring /Monitoring Well
Approximate Locations
Soil Boring & Monitoring Well Location Plan
Fed Ex Ground Facility
300 Wagaraw Avenue
Brooklyn, NY
TESTWELL
Fed Ex/Gibbons

From: <jerry.swart@fedex.com>
To: <jbvought@gw.dec.state.ny.us>
Date: 7/17/02 12:24PM
Subject: FedEx Ground Maspeth Ave.

Jeff; confirming our discussion, we found an oily substance on the groundwater during excavation activities along the west side of the facility this week. Per your instruction I notified the hotline-spill #0204002. The photos and site maps showing approximately locations are attached.

We will likely backfill the excavations where we encounter this material so we don't delay construction with the understanding we will address this unknown substance as construction advances.

There does not seem to be any consistent encounter with this material. Less than 15 feet away they did not observe this, so we are not sure if it is isolated, however Gilbane believes they also observed this oil on the east side as well so we do not know the extent of this yet.

You are welcome to visit the site today at 1PM when Gannett Fleming and Testwell will be meeting to discuss the situation.

If you discover any information on any potential off-site sources for this oil please let us know.

Thanks.

(See attached file: FedEx Ground Brooklyn Contamination.pdf)

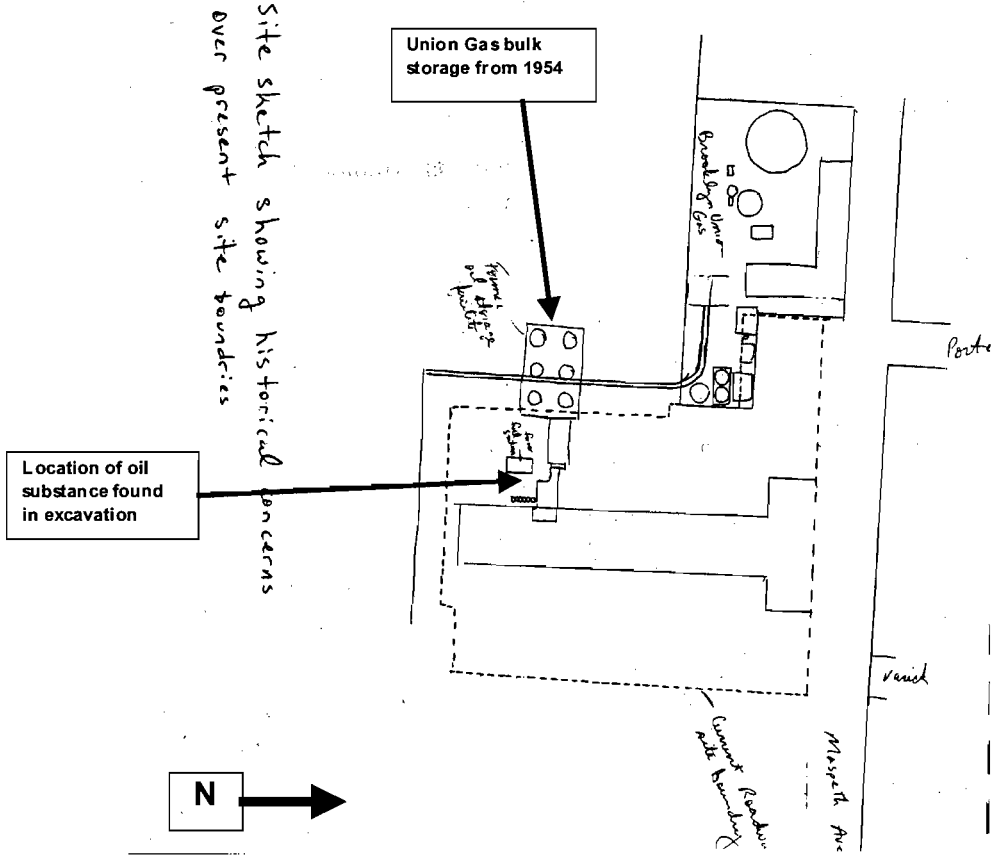
Jerry Swart
Managing Director - Environmental Services

FedEx Ground Package System, Inc.
1000 FedEx Drive
Moon Township, PA 15108

PO Box 108
Pittsburgh, PA 15230

Phone: 412-262-6291
FAX: 412-859-5450
Email: jerry.swart@fedex.com
Cell Phone: 412-298-7544

FEDEX GROUND
300 MASP ETH AVE.
BROOK LYN, NY
7/16/02



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by gwsmtp.dec.state.ny.us; Wed, 17 Jul 2002 12:23:18 -0400
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(Content Technologies SMTPRS 4.2.10) with ESMTP id
<T5c24ecbf0686b3700f284@smtp.dec.state.ny.us> for <jbvought@gw.dec.state.ny.us>;
Wed, 17 Jul 2002 12:21:26 -0400
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mailhub.ground.fedex.com (8.9.3/8.9.3) with ESMTP id MAA22232 for <jbvought@gw.dec.state.ny.us>;
Wed, 17 Jul 2002 12:21:46 -0400
From: jerry.swart@fedex.com
Subject: FedEx Ground Maspeth Ave.
To: jbvought@gw.dec.state.ny.us
X-Mailer: Lotus Notes Release 5.0.6a January 17, 2001
Message-ID: <OF381763AB.5F129D41-ON85256BF9.0059F649@ground.fedex.com>
Sender: jerry.swart@fedex.com
Date: Wed, 17 Jul 2002 12:22:37 -0400
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Thanks.

(See attached file: FedEx Ground Brooklyn Contamination.pdf)

Jerry Swart
Managing Director - Environmental Services

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1000 FedEx Drive
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Visit our Website at www.testwelllabs.com

OPERATOR Dean Pearce

DATE 07/22/02 NO. OF PAGES 43
(INCLUDING TRANSMITTAL)

****

TRANSMIT TO

COMPANY NYSDEC

FAX NO. (718) 482-4098

FORWARD TO: Jeff Vought

DEPARTMENT Division of Environmental Remediation

****

MESSAGE:

RE: FedEx Ground Facility
300 Maspeth Ave.
Brooklyn, NY

Please see attached cover letter with soil and water sample results

Dean Pearce

5 VOC exceedances

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TESTWELL LABORATORIES, INC.
Total Commitment to Quality

47 Hudson Street, Ossining, New York 10562
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Albany, NY
Queens, NY
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Certifications & Accreditations

ISO 9001 CERTIFIED

NVLAP LAB CODE 200083-0

AAP MASHTC R18

NYS DOH ELAP #10871, 11142 & 11651

Testwell Laboratories, Inc. Ossining, NY is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program CERT NO 100147

July 22, 2002

Mr. Jeffrey Vought, Engineering Geologist
New York State
Department of Environmental Conservation
Hunts Point Plaza
47-40 21st Street
Long Island City, NY 11101

Regarding: FedEx Ground Facility
300 Maspeth Ave, Brooklyn, NY
Soil Sampling Results

Dear Mr. Vought:

We have reviewed the results for the soil samples taken on July 3, 2002 regarding the above referenced site. These samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding soil had been removed resulting in a 56 FT. Wide X 42 FT. Long X 10 FT. Deep excavation. We recommend the following:

1. The Underground Storage Tank area is relatively clean according to the results and request that the area be backfilled as no further excavation is warranted.
2. Any high Semi-Volatile Organic Compound readings are probably due to the site condition of 7 FT. – 8 FT. layer of fill material over a layer of peat.
3. If wells are deemed necessary due to the high Benzene level in the groundwater sample, they are to be installed at a later date after site work (piles and foundations) is complete.
4. The remaining vent lines that terminate at the surface level and associated contaminated soil on the adjoining property should be removed.

We believe that the Photoionization Detector's (PID) readings were high when excavation was halted due to the decomposition of the peat layer and methane gas permeating up through the fill layer. The excavation of the soil around the removed tanks has evidently removed the fuel oil contaminant.

TESTWELL LABORATORIES, INC.

Mr. Jeffrey Vought, Engineering Geologist
RE: FedEx Ground
300 Maspeth Avenue
Soil Sampling Results

July 22, 2002

Please review the attached sample results and let us know if you concur with our findings. If you have any questions or require additional information regarding this matter please do not hesitate to call us at (914) 944-2562.

Sincerely,

Dean Pearce

Dean Pearce
Environmental Manager

CC: Mr. Eric Adamczyk – FedEx Ground
Mr. Jerry Swart – FedEx Ground
Mr. John LaRow – Gilbane Construction
Mr. Jim Caster – Forecast Construction Management

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	7
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	52
tert-BUTYLBENZENE	98-06-6	8
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	15
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	45
n-PROPYLBENZENE	103-65-1	44
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	9

Michael Venaldi
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<240
PHENOL	108-95-1	<240
2-CHLOROPHENOL	95-57-8	<240
1,3-DICHLOROBENZENE	541-73-1	<240
1,4-DICHLOROBENZENE	106-46-7	<240
1,2-DICHLOROBENZENE	95-50-1	<240
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<240
2-METHYLPHENOL	95-48-7	<240
HEXACHLOROETHANE	67-72-1	<240
N-NITROSODI-n-PROPYL AMINE	621-64-7	<240
4-METHYLPHENOL	106-44-5	<240
NITROBENZENE	98-95-3	<240
ISOPHORONE	78-59-1	<240
2-NITROPHENOL	88-75-5	<240
2,4-DIMETHYLPHENOL	105-67-9	<240
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<240
2,4-DICHLOROPHENOL	102-83-2	<240
1,2,4-TRICHLOROBENZENE	120-82-1	<240
NAPHTHALENE	91-20-3	1,604
4-CHLOROANILINE	106-47-8	<240
HEXACHLOROBUTADIENE	87-68-3	<240
4-CHLORO-3-METHYLPHENOL	59-50-7	<240
2-METHYLNAPHTHALENE	91-57-6	33,240
HEXACHLOROCYCLOPENTADIENE	77-47-4	<240
2,4,6-TRICHLOROPHENOL	88-06-2	<240
2,4,5-TRICHLOROPHENOL	95-95-4	<240
2-CHLORONAPHTHALENE	91-58-7	<240
2-NITROANILINE	88-74-4	<240
ACENAPHTHYLENE	208-96-8	<240
DIMETHYLPHTHALATE	131-11-3	<240
2,6-DINITROTOLUENE	606-20-2	<240
ACENAPHTHENE	83-32-9	4,086

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ESE Wall
Date received: 07/05/02	Laboratory ID: 0219508
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<240
2,4-DINITROPHENOL	51-28-5	2,281 200
DIBENZOFURAN	132-64-9	2,661
2,4-DINTROTOLUENE	121-14-2	<240
4-NITROPHENOL	100-02-7	<240
FLUORENE	86-73-7	6,418
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<240
DIETHYLPHTHALATE	84-66-2	<240
4-NITROANILINE	100-01-6	<240
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<240
N-NITROSODIPHENYLAMINE	86-30-6	<240
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<240
HEXACHLOROBENZENE	118-74-1	<240
PENTACHLORPHENOL	87-86-5	<240
PHENANTHRENE	85-01-8	15,802
ANTHRACENE	120-12-7	1,359
Di-n-BUTYLPHTHALATE	84-74-2	<240
FLUORANTHENE	206-44-0	12,057
PYRENE	129-00-0	12,630
BUTYLBENZYLPHTHALATE	85-68-7	<240
3,3-DICHLOROBENZIDINE	91-94-1	<240
BENZO-a-ANTHRACENE	56-55-3	630 224
CHRYSENE	218-01-9	948 100
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	626
DI-n-OCTYLPHTHALATE	117-84-0	<240
BENZO-b-FLUORANTHENE	205-99-2	598 220
BENZO-k- FLUORANTHENE	207-08-9	<240
BENZO-a-PYRENE	50-32-8	461 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	<240
DIBENZO-a,h-ANTHRACENE	53-70-3	<240
BENZO-g,h,i-PERYLENE	191-24-2	426

MDL's are raised due to matrix interference.

Michael Vendola
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
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101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn ENE Wall
Date received: 07/05/02	Laboratory ID: 0219509
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	204
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	450
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	2,636
ANTHRACENE	120-12-7	838
Di-n-BUTYLPHTHALATE	84-74-2	44
FLUORANTHENE	206-44-0	4,053
PYRENE	129-00-0	3,929
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	1,733 227
CHRYSENE	218-01-9	2,009 100
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<40
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	2,027 220
BENZO-k- FLUOROANTHENE	207-08-9	718 220
BENZO-a-PYRENE	50-32-8	1,575 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	1,055
DIBENZO-a,h-ANTHRACENE	53-70-3	132 14.3
BENZO-g,h,i-PERYLENE	191-24-2	780

Michael Vendola
Laboratory Director

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venuti
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<40
PHENOL	108-95-1	<40
2-CHLOROPHENOL	95-57-8	<40
1,3-DICHLOROBENZENE	541-73-1	<40
1,4-DICHLOROBENZENE	106-46-7	<40
1,2-DICHLOROBENZENE	95-50-1	<40
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<40
2-METHYLPHENOL	95-48-7	<40
HEXACHLOROETHANE	67-72-1	<40
N-NITROSODI-n-PROPYL AMINE	621-64-7	<40
4-METHYLPHENOL	106-44-5	<40
NITROBENZENE	98-95-3	<40
ISOPHORONE	78-59-1	<40
2-NITROPHENOL	88-75-5	<40
2,4-DIMETHYLPHENOL	105-67-9	<40
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<40
2,4-DICHLOROPHENOL	102-83-2	<40
1,2,4-TRICHLOROBENZENE	120-82-1	<40
NAPHTHALENE	91-20-3	√439
4-CHLOROANILINE	106-47-8	<40
HEXACHLOROBUTADIENE	87-68-3	<40
4-CHLORO-3-METHYLPHENOL	59-50-7	<40
2-METHYLNAPHTHALENE	91-57-6	√206
HEXACHLOROCYCLOPENTADIENE	77-47-4	<40
2,4,6-TRICHLOROPHENOL	88-06-2	<40
2,4,5-TRICHLOROPHENOL	95-95-4	<40
2-CHLORONAPHTHALENE	91-58-7	<40
2-NITROANILINE	88-74-4	<40
ACENAPHTHYLENE	208-96-8	√243
DIMETHYLPHTHALATE	131-11-3	<40
2,6-DINITROTOLUENE	606-20-2	<40
ACENAPHTHENE	83-32-9	√399

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNE Wall
Date received: 07/05/02	Laboratory ID: 0219510
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	806
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	934
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	3,116
ANTHRACENE	120-12-7	760
Di-n-BUTYLPHTHALATE	84-74-2	<40
FLUORANTHENE	206-44-0	3,142
PYRENE	129-00-0	2,969
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	1,208 224
CHRYSENE	218-01-9	1,381 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<40
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	1,365 220
BENZO-k- FLUOROANTHENE	207-08-9	603 220
BENZO-a-PYRENE	50-32-8	1,116 161
INDENO(1,2,3-c,d)PYRENE	193-39-5	798 3200
DIBENZO-a,h-ANTHRACENE	53-70-3	148 14.3
BENZO-g,h,i-PERYLENE	191-24-2	575

Michael Venditti

Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	<5
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Verrelli
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<80
PHENOL	108-95-1	<80
2-CHLOROPHENOL	95-57-8	<80
1,3-DICHLOROBENZENE	541-73-1	<80
1,4-DICHLOROBENZENE	106-46-7	<80
1,2-DICHLOROBENZENE	95-50-1	<80
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<80
2-METHYLPHENOL	95-48-7	<80
HEXACHLOROETHANE	67-72-1	<80
N-NITROSODI-n-PROPYL AMINE	621-64-7	<80
4-METHYLPHENOL	106-44-5	<80
NITROBENZENE	98-95-3	<80
ISOPHORONE	78-59-1	<80
2-NITROPHENOL	88-75-5	<80
2,4-DIMETHYLPHENOL	105-67-9	<80
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<80
2,4-DICHLOROPHENOL	102-83-2	<80
1,2,4-TRICHLOROBENZENE	120-82-1	<80
NAPHTHALENE	91-20-3	165
4-CHLOROANILINE	106-47-8	<80
HEXACHLOROBUTADIENE	87-68-3	<80
4-CHLORO-3-METHYLPHENOL	59-50-7	<80
2-METHYLNAPHTHALENE	91-57-6	114
HEXACHLOROCYCLOPENTADIENE	77-47-4	<80
2,4,6-TRICHLOROPHENOL	88-06-2	<80
2,4,5-TRICHLOROPHENOL	95-95-4	<80
2-CHLORONAPHTHALENE	91-58-7	<80
2-NITROANILINE	88-74-4	<80
ACENAPHTHYLENE	208-96-8	108
DIMETHYLPHTHALATE	131-11-3	<80
2,6-DINITROTOLUENE	606-20-2	<80
ACENAPHTHENE	83-32-9	189

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn NNW Wall
Date received: 07/05/02	Laboratory ID: 0219511
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<80
2,4-DINITROPHENOL	51-28-5	<80
DIBENZOFURAN	132-64-9	138
2,4-DINTROTOLUENE	121-14-2	<80
4-NITROPHENOL	100-02-7	<80
FLUORENE	86-73-7	213
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<80
DIETHYLPHTHALATE	84-66-2	<80
4-NITROANILINE	100-01-6	<80
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<80
N-NITROSODIPHENYLAMINE	86-30-6	<80
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<80
HEXACHLOROBENZENE	118-74-1	<80
PENTACHLORPHENOL	87-86-5	<80
PHENANTHRENE	85-01-8	1,504
ANTHRACENE	120-12-7	483
Di-n-BUTYLPHTHALATE	84-74-2	<80
FLUORANTHENE	206-44-0	3,451
PYRENE	129-00-0	3,423
BUTYLBENZYLPHTHALATE	85-68-7	<80
3,3-DICHLOROBENZIDINE	91-94-1	<80
BENZO-a-ANTHRACENE	56-55-3	1,506 224
CHRYSENE	218-01-9	1,685 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<80
DI-n-OCTYLPHTHALATE	117-84-0	<80
BENZO-b-FLUOROANTHENE	205-99-2	1,587 220
BENZO-k- FLUOROANTHENE	207-08-9	727 220
BENZO-a-PYRENE	50-32-8	1,216 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	669
DIBENZO-a,h-ANTHRACENE	53-70-3	<80
BENZO-g,h,i-PERYLENE	191-24-2	605

MDL's are raised due to matrix interference.

Michael Venditti

Laboratory Director

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WNW Wall
Date received: 07/05/02	Laboratory ID: 0219512
Date extracted: 07/09/02	Matrix: Soil
Date analyzed: 07/09/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<40
2,4-DINITROPHENOL	51-28-5	<40
DIBENZOFURAN	132-64-9	51
2,4-DINTROTOLUENE	121-14-2	<40
4-NITROPHENOL	100-02-7	<40
FLUORENE	86-73-7	83
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<40
DIETHYLPHTHALATE	84-66-2	<40
4-NITROANILINE	100-01-6	<40
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<40
N-NITROSODIPHENYLAMINE	86-30-6	<40
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<40
HEXACHLOROBENZENE	118-74-1	<40
PENTACHLORPHENOL	87-86-5	<40
PHENANTHRENE	85-01-8	928
ANTHRACENE	120-12-7	194
Di-n-BUTYLPHTHALATE	84-74-2	<40
FLUORANTHENE	206-44-0	1155
PYRENE	129-00-0	1,240
BUTYLBENZYLPHTHALATE	85-68-7	<40
3,3-DICHLOROBENZIDINE	91-94-1	<40
BENZO-a-ANTHRACENE	56-55-3	539 224
CHRYSENE	218-01-9	574 400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	79
DI-n-OCTYLPHTHALATE	117-84-0	<40
BENZO-b-FLUOROANTHENE	205-99-2	513 220
BENZO-k- FLUOROANTHENE	207-08-9	320 220
BENZO-a-PYRENE	50-32-8	437 61
INDENO(1,2,3-c,d)PYRENE	193-39-5	377
DIBENZO-a,h-ANTHRACENE	53-70-3	<40
BENZO-g,h,i-PERYLENE	191-24-2	310

Michael Venditti
Laboratory Director

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WSW Wall
Date received: 07/05/02	Laboratory ID: 0219513
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<50
BENZENE	71-43-2	<50
BROMOBENZENE	108-86-1	<50
BROMOCHLOROMETHANE	74-97-5	<50
BROMODICHLOROMETHANE	75-27-4	<50
BROMOFORM	75-25-4	<50
BROMOMETHANE	74-83-9	<50
n-BUTYLBENZENE	104-51-8	<50
sec-BUTYLBENZENE	135-98-8	<50
tert-BUTYLBENZENE	98-06-6	<50
CARBON TETRACHLORIDE	56-23-5	<50
CHLOROBENZENE	108-90-7	<50
CHLORODIBROMOMETHANE	124-48-1	<50
CHLOROETHANE	75-00-3	<50
CHLOROFORM	67-66-3	<50
CHLOROMETHANE	74-87-3	<50
2-CHLOROTOLUENE	95-49-8	<50
4-CHLOROTOLUENE	106-43-4	<50
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<50
DIBROMOCHLOROMETHANE	124-48-1	<50
1,2-DIBROMOETHANE	106-93-4	<50
DIBROMOMETHANE	74-95-3	<50
1,2-DICHLOROBENZENE	95-50-1	<50
1,3-DICHLOROBENZENE	541-73-1	<50
1,4-DICHLOROBENZENE	106-46-7	<50
DICHLORODIFLUOROMETHANE	75-71-8	<50
1,1-DICHLOROETHANE	75-34-3	<50
1,2-DICHLOROETHANE	107-06-2	<50
1,1-DICHLOROETHENE	75-35-4	<50
cis-1,2-DICHLOROETHENE	156-59-2	<50
trans-1,2-DICHLOROETHENE	156-60-5	<50

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn WSW Wall
Date received: 07/05/02	Laboratory ID: 0219513
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<50
1,3-DICHLOROPROPANE	142-28-9	<50
2,2-DICHLOROPROPANE	594-20-7	<50
1,1-DICHLOROPROPENE	563-58-6	<50
cis-1,3-DICHLOROPROPENE	10061-01-5	<50
trans-1,3-DICHLOROPROPENE	10061-02-6	<50
ETHYLBENZENE	100-41-4	<50
HEXACHLOROBUTADIENE	87-68-3	<50
ISOPROPYLBENZENE	98-82-8	<50
p-ISOPROPYLTOLUENE	99-87-6	179
METHYLENE CHLORIDE	75-09-2	<50
NAPHTHALENE	91-20-3	111
n-PROPYLBENZENE	103-65-1	<50
STYRENE	100-42-5	116
1,1,1,2-TETRACHLOROETHANE	630-20-6	<50
1,1,2,2-TETRACHLOROETHANE	79-34-5	<50
TETRACHLOROETHENE	127-18-4	<50
TOLUENE	108-88-3	<50
1,2,3-TRICHLOROBENZENE	87-61-6	<50
1,2,4-TRICHLOROBENZENE	120-82-1	<50
1,1,1-TRICHLOROETHANE	71-55-6	<50
1,1,2-TRICHLOROETHANE	79-00-5	118
TRICHLOROETHENE	79-01-6	<50
TRICHLOROFLUOROMETHANE	75-69-4	<50
1,2,3-TRICHLOROPROPANE	96-18-4	<50
1,2,4-TRIMETHYLBENZENE	95-63-6	806
1,3,5-TRIMETHYLBENZENE	108-67-8	7,750 3300
VINYL CHLORIDE	75-01-4	<50
p & m-XYLENES	1330-20-7	470
o-XYLENE	1330-20-7	6,470

MDL's are raised due to matrix interference.

Michael Venuti
Laboratory Director

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn Ground Water
Date received: 07/05/02	Laboratory ID: 0219516
Date extracted: 07/10/02	Matrix: Liquid
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/L
MTBE	1634-04-4	<5
BENZENE	71-43-2	40
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	<5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

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Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn Ground Water
Date received: 07/05/02	Laboratory ID: 0219516
Date extracted: 07/10/02	Matrix: Liquid
Date analyzed: 07/10/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/L
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98 82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	110
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79 34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96 18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	49
1,3,5-TRIMETHYLBENZENE	108-67-8	20
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	26
o-XYLENE	1330-20-7	11

Michael Venditti
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

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CONTINUE FROM PREVIOUS PAGE 001

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Testwell Laboratories, Inc.
7 HUDSON STREET, OSSINING, NEW YORK 10562 TEL: (914)944-2570(FAX)

CLIENT NAME FED EX / GILBANE
CLIENT ADDRESS
PROJECT SITE 300 MASPETH AVE, BROOK
CONTACT NAME & PHONE #
NAME

CLIENT/FIELD SAMPLE #	LAB SAMPLE #	EXACT SAMPLE LOCATION
1 SOIL	0219508	ESE WALL BENZENE Tert-BUTYLBENZE Sec BUTYLBEN
2 SOIL	0219509	ENE WALL
3 SOIL	0219510	NNE WALL
SOIL	0219511	NNW WALL
SOIL	0219512	WNW WALL
SOIL	0219513	WSW WALL
SOIL	0219514	SSW WALL
1 SOIL	0219515	SSE WALL
WATER	0219516	GROUND WATER

MENTS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
Jean Pence	7/3/02		
RECEIVED BY:	DATE:	TIME:	RELINQUISHED BY:

TOTAL P.05

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/05/02	Laboratory ID: 0219508-0219515
Date extracted: 07/10/02	Matrix: Soil
Date analyzed: 07/10/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0219508	ESE Wall	232
0219509	ENE Wall	145
0219510	NNE Wall	88.9
0219511	NNW Wall	77.1
0219512	WNW Wall	19.5
0219513	WSW Wall	18.0
0219514	SSW Wall	16.7
0219515	SSE Wall	43.5

Performed by SW-846 Method 6010

Michael Vanaldi

Laboratory Director

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707

Phone: (516) 671-8440
Fax: (516) 671-3349
Internet: www.gannettfleming.com

FAX TRANSMITTAL FORM

Job #: 39936.000

cc: John LaRow 718 384 1845
Robert Dengler 412 859-5450

To: Jeff Vought	
Company: NYSDEC	Fax Number: 718 482-4098
From: Gregory Ernst	Extension:
Date: 8/13/02	# of Pages (Including this Page): 5

Comments: Please see attached.

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Gannett Fleming

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Fax: (516) 671-3349
Internet: www.gannettfleming.com

VIA FACSIMILE (718) 482-4098

August 13, 2002
File # 39936

Jeff Vought
New York State Department of
Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804

Dear Mr. Vought:

Gannett Fleming Engineers and Architects, P.C. has been retained by FedEx Ground to provide environmental consulting services at the 300 Maspeth Avenue facility in Brooklyn. This letter is intended to inform the New York State Department of Environmental Conservation (NYSDEC) of the projected site remediation activities surrounding the underground storage tanks (USTs) related to the construction at the site.

As we discussed on Wednesday, August 7th, data collected by Testwell Laboratories, Inc. indicated the UST excavation end points were substantially in compliance with NYSDEC Recommended Soil Cleanup Objectives with the exception of the soil sample collected along the northern wall of the excavation (Samples ENE, NNE, and NNW). Residual petroleum was also detected in groundwater observed in the excavation.

This characterization is important to the construction schedule, since the footprint of the facility expansion work will cover a portion of the UST excavation. The approximate location of the facility expansion footprint relative to the UST excavation is provided on the attached Location Plan.

Based on the end point soil data (Samples WSW and SSW), no further action is recommended for the soil beneath facility footprint, which is currently under construction. Additionally, no groundwater monitoring wells are proposed inside of the facility. Any future groundwater monitoring wells will be installed within parking areas and/or the 35-foot wide alleyway that will remain around the exterior of the facility. The completion of the facility expansion will not obstruct further investigation of petroleum impacts along the northern wall of the UST excavation.

Gannett Fleming Engineers and Architects, P.C.

Jeff Vought
New York State Department of
Environmental Conservation
August 13, 2002

Gannett Fleming will provide a comprehensive site investigation report on both the UST removal (Spill #0202804) and for the black tar-like substance found in the southwestern portion of the site (Spill #0204002) as additional data for these locations becomes available. This data is not expected to affect our recommendations.
Please indicate the NYSDEC's response to these recommendations. Your timely response will be greatly appreciated, since the construction in the former UST excavation area is proceeding rapidly.

Please call with any questions.

Very truly yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY ERNST
Senior Scientist

STEPHEN R. HIX
Director, Environmental Services

Encl.

cc: Robert Dengler, FedEx Ground
John LaRow, Gilbane Construction

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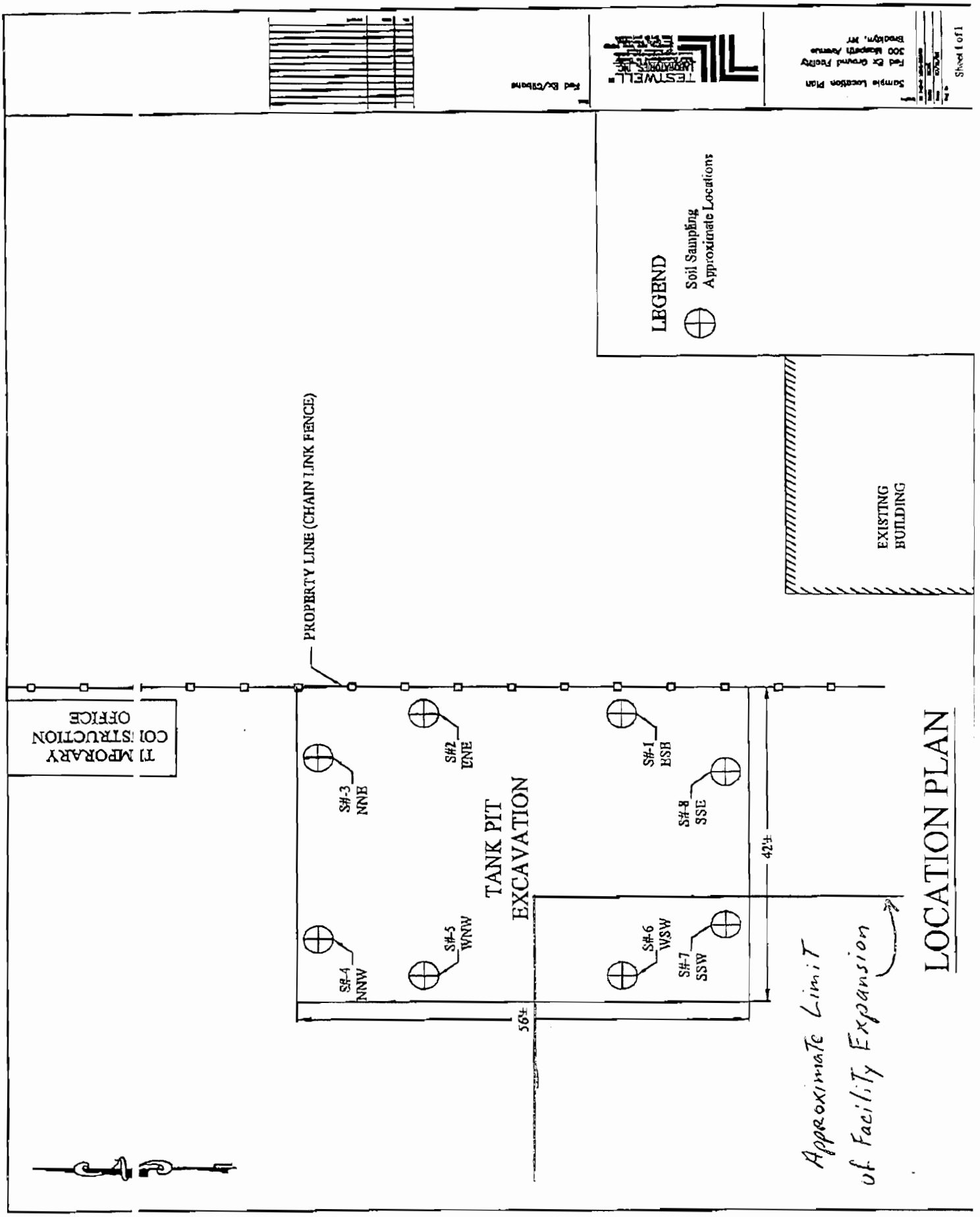
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - UST EXCAVATION
NYSDEC Spill #0202804
FEDEX GROUND FACILITY
300 MASPETH AVENUE
BROOKLYN, NY

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	ESE	ENE	NNE	NNW	WNW	WSW	SSW	SSE
SAMPLE DATE:		7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02
VOCs (ppb) - EPA Method 8021									
M&P-Xylenes[1]	1200	-	-	-	-	-	-	-	3,677
O-Xylene[1]	1200	-	-	-	-	-	6,470/1200	-	17,852
1,3,5-Trimethylbenzene	3300	-	-	-	-	-	7750/3300		15,107
PAHs (ppb) - EPA Method 8270									
2,4-Dinitrophenol	200	2,281	-	-	-	-	-	-	380
Benzo(a)anthracene	224 or MDL	630	1,733	1,208	1,506	539	381	-	1,947
Chrysene	400	948	2,009	1,381	1,685	574	-	-	1,989
Benzo(b)fluoranthene	61 or MDL	598	2,027	1,365	1,587	513	245	-	1,384
Benzo(k)fluoranthene	610 or MDL	-	718	-	727	-	-	-	660
Benzo(a)pyrene	61 or MDL	461	1,575	1,116	1,216	437	270	-	1,140
Ideno(1,2,3-cd)pyrene	3200	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	14.3 or MDL	-	132	-	-	-	-	-	46

NOTES:
Samples collected by Testwell Laboratories, Inc. and analyzed by Long Island Analytical Laboratories Inc.

-	Analytical data did not exceed TAGM 4046 objectives
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
MDL	Method Detection Limit


LEGEND
Soil Sampling
Approximate Locations
EXISTING BUILDING
PROPERTY LINE (CHAIN LINK FENCE)
TEMPORARY CONSTRUCTION OFFICE
S#-1 ESE
S#-2 ENE
S#-3 NNE
S#-4 NNW
S#-5 WNW
S#-6 WSW
S#-7 SSW
S#-8 SSE
TANK PIT EXCAVATION
42±
56±
Approximate Limit of Facility Expansion
LOCATION PLAN

Gannett Fleming

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Phone: (516) 671-8440
Fax: (516) 671-3349
Internet: www.gannettfleming.com

FAX TRANSMITTAL FORM

Job #: 39936.000

cc: Robert Dengler : 412 859 5450

To: Jeffrey Vought	
Company: N4SOEC	Fax Number: 718 482 4098
From: Greg Ernst	Extension:
Date: 8/16/02	# of Pages (Including this Page): 17

Comments:

Soil Data for Black-stained soils
Located in Southwestern portion of ~~site~~
FedEx Ground site at 300 Maspeth Ave. Bkln.

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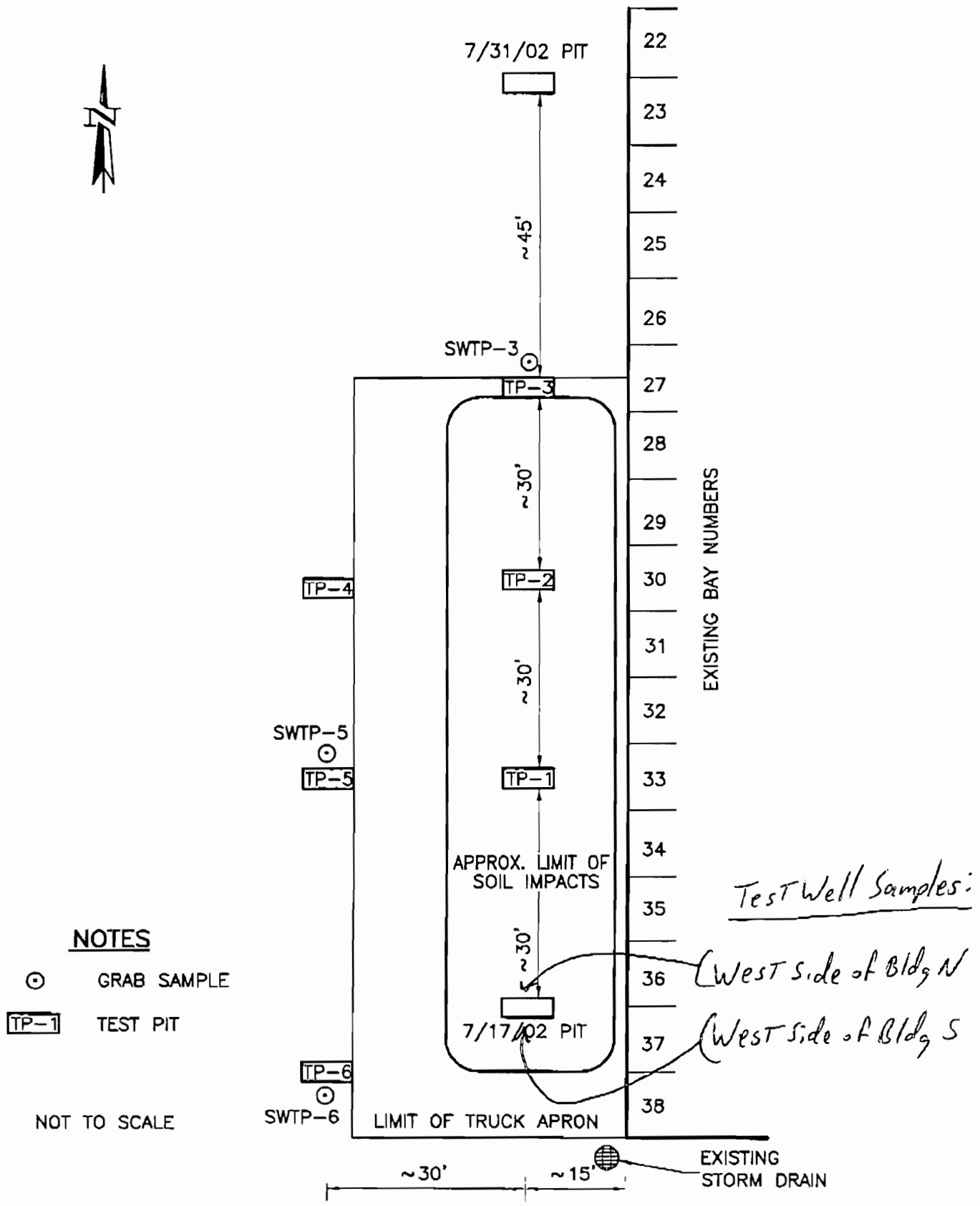
Gannett Fleming

FIGURE 3



SCHEMATIC OF TEST PIT EXCAVATIONS

FEDEX GROUND

SOUTHWEST PORTION OF MASPETH AVE, BROOKLYN, NEW YORK

SN39936C
081202

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	21
NAPHTHALENE	91-20-3	6
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venuti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@li..linc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<400
PHENOL	108-95-1	<400
2-CHLOROPHENOL	95-57-8	<400
1,3-DICHLOROBENZENE	541-73-1	<400
1,4-DICHLOROBENZENE	106-46-7	<400
1,2-DICHLOROBENZENE	95-50-1	<400
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<400
2-METHYLPHENOL	95-48-7	<400
HEXACHLOROETHANE	67-72-1	<400
N-NITROSODI-n-PROPYL AMINE	621-64-7	<400
4-METHYLPHENOL	106-44-5	<400
NITROBENZENE	98-95-3	<400
ISOPHORONE	78-59-1	<400
2-NITROPHENOL	88-75-5	<400
2,4-DIMETHYLPHENOL	105-67-9	<400
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<400
2,4-DICHLOROPHENOL	102-83-2	<400
1,2,4-TRICHLOROBENZENE	120-82-1	<400
NAPHTHALENE	91-20-3	942
4-CHLOROANILINE	106-47-8	<400
HEXACHLOROBUTADIENE	87-68-3	<400
4-CHLORO-3-METHYLPHENOL	59-50-7	<400
2-METHYLNAPHTHALENE	91-57-6	1,099
HEXACHLOROCYCLOPENTADIENE	77-47-4	<400
2,4,6-TRICHLOROPHENOL	88-06-2	<400
2,4,5-TRICHLOROPHENOL	95-95-4	<400
2-CHLORONAPHTHALENE	91-58-7	<400
2-NITROANILINE	88-74-4	<400
ACENAPHTHYLENE	208-96-8	437
DIMETHYLPHTHALATE	131-11-3	<400
2,6-DINITROTOLUENE	606-20-2	<400
ACENAPHTHENE	83-32-9	1,885

Page 5 of 10

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<400
2,4-DINITROPHENOL	51-28-5	<400
DIBENZOFURAN	132-64-9	1,118
2,4-DINTROTOLUENE	121-14-2	<400
4-NITROPHENOL	100-02-7	<400
FLUORENE	86-73-7	2,399
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<400
DIETHYLPHTHALATE	84-66-2	<400
4-NITROANILINE	100-01-6	<400
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<400
N-NITROSODIPHENYLAMINE	86-30-6	<400
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<400
HEXACHLOROBENZENE	118-74-1	<400
PENTACHLORPHENOL	87-86-5	<400
PHENANTHRENE	85-01-8	11,895
ANTHRACENE	120-12-7	3,309
Di-n-BUTYLPHTHALATE	84-74-2	<400
FLUORANTHENE	206-44-0	14,105
PYRENE	129-00-0	15,036
BUTYLBENZYLPHTHALATE	85-68-7	<400
3,3-DICHLOROBENZIDINE	91-94-1	<400
BENZO-a-ANTHRACENE	56-55-3	6,124 /224
CHRYSENE	218-01-9	7,200 /400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<400
DI-n-OCTYLPHTHALATE	117-84-0	<400
BENZO-b-FLUOROANTHENE	205-99-2	6,333 /220
BENZO-k- FLUOROANTHENE	207-08-9	2,570 /220
BENZO-a-PYRENE	50-32-8	5,307 /61
INDENO(1,2,3-c,d)PYRENE	193-39-5	2,761 /
DIBENZO-a,h-ANTHRACENE	53-70-3	808 /113
BENZO-g,h,i-PERYLENE	191-24-2	2,373

MDL's are raised due to matrix interference.

Michael Venedi

Laboratory Director

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"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@liilinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	8
sec-BUTYLBENZENE	135-98-8	6
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	53
n-PROPYLBENZENE	103-65-1	6
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	23
1,3,5-TRIMETHYLBENZENE	108-67-8	6
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venditt

Laboratory Directo

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@li linc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<800
PHENOL	108-95-1	<800
2-CHLOROPHENOL	95-57-8	<800
1,3-DICHLOROBENZENE	541-73-1	<800
1,4-DICHLOROBENZENE	106-46-7	<800
1,2-DICHLOROBENZENE	95-50-1	<800
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<800
2-METHYLPHENOL	95-48-7	<800
HEXACHLOROETHANE	67-72-1	<800
N-NITROSODI-n-PROPYL AMINE	621-64-7	<800
4-METHYLPHENOL	106-44-5	<800
NITROBENZENE	98-95-3	<800
ISOPHORONE	78-59-1	<800
2-NITROPHENOL	88-75-5	<800
2,4-DIMETHYLPHENOL	105-67-9	<800
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<800
2,4-DICHLOROPHENOL	102-83-2	<800
1,2,4-TRICHLOROBENZENE	120-82-1	<800
NAPHTHALENE	91-20-3	1,914
4-CHLOROANILINE	106-47-8	<800
HEXACHLOROBUTADIENE	87-68-3	<800
4-CHLORO-3-METHYLPHENOL	59-50-7	<800
2-METHYLNAPHTHALENE	91-57-6	1,742
HEXACHLOROCYCLOPENTADIENE	77-47-4	<800
2,4,6-TRICHLOROPHENOL	88-06-2	<800
2,4,5-TRICHLOROPHENOL	95-95-4	<800
2-CHLORONAPHTHALENE	91-58-7	<800
2-NITROANILINE	88-74-4	<800
ACENAPHTHYLENE	208-96-8	826
DIMETHYLPHTHALATE	131-11-3	<800
2,6-DINITROTOLUENE	606-20-2	<800
ACENAPHTHENE	83-32-9	3,083

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<800
2,4-DINITROPHENOL	51-28-5	<800
DIBENZOFURAN	132-64-9	2,476
2,4-DINTROTOLUENE	121-14-2	<800
4-NITROPHENOL	100-02-7	<800
FLUORENE	86-73-7	4,496
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<800
DIETHYLPHTHALATE	84-66-2	<800
4-NITROANILINE	100-01-6	<800
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<800
N-NITROSODIPHENYLAMINE	86-30-6	<800
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<800
HEXACHLOROBENZENE	118-74-1	<800
PENTACHLORPHENOL	87-86-5	<800
PHENANTHRENE	85-01-8	23,383
ANTHRACENE	120-12-7	6,100
Di-n-BUTYLPHTHALATE	84-74-2	<800
FLUORANTHENE	206-44-0	24,831
PYRENE	129-00-0	23,487
BUTYLBENZYLPHTHALATE	85-68-7	<800
3,3-DICHLOROBENZIDINE	91-94-1	<800
BENZO-a-ANTHRACENE	56-55-3	9,894 /220
CHRYSENE	218-01-9	11,004 /400
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<800
DI-n-OCTYLPHTHALATE	117-84-0	<800
BENZO-b-FLUOROANTHENE	205-99-2	9,353 /220
BENZO-k- FLUOROANTHENE	207-08-9	4,417 /220
BENZO-a-PYRENE	50-32-8	7,601 /61
INDENO(1,2,3-c,d)PYRENE	193-39-5	4,452 /3200
DIBENZO-a,h-ANTHRACENE	53-70-3	1,166 /14.3
BENZO-g,h,i-PERYLENE	191-24-2	3,468

MDL's are raised due to matrix interference.

Michael Venaldi

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@li[illegible]lino.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/19/02	Laboratory ID: 0220326-0220327
Date extracted: 07/23/02	Matrix: Soil
Date analyzed: 07/23/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0220326	West Side of Building N	433
0220327	West Side of Building S	216

Performed by SW-846 Method 6010

Michael Vendetti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

101-4 Colin Drive • Holbrook, New York 11741

Phone (631) 472-3400 • Fax (631) 472-6505 • Email: LIAL@liallinc.com

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
m + p Xylene	ug/Kg	< 4.7		08/07/02	4.6511	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Xylene	ug/Kg	< 7.0		08/07/02	6.9767	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
124-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Naphthalene(+)	ug/Kg	48		08/07/02	2.3255	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
% Solids		86		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17582 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1400		08/09/02	348.83	EPA8270
Acenaphthene	ug/Kg	670		08/09/02	348.83	EPA8270
Fluorene	ug/Kg	1600		08/09/02	348.83	EPA8270
Phenanthrene	ug/Kg	6300		08/09/02	348.83	EPA8270
Anthracene	ug/Kg	1700		08/09/02	348.83	EPA8270
Fluoranthene	ug/Kg	7100		08/09/02	348.83	EPA8270
Pyrene	ug/Kg	6400		08/09/02	348.83	EPA8270
Benzo(a)anthracene	ug/Kg	3400		08/09/02	348.83	EPA8270
Chrysene	ug/Kg	3400		08/09/02	348.83	EPA8270
Benzo(b)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(k)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(a)pyrene	ug/Kg	3000		08/09/02	348.83	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1200		08/09/02	348.83	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	510		08/09/02	348.83	EPA8270
Benzo(ghi)perylene	ug/Kg	1100		08/09/02	348.83	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =5600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17583 NYSDOH ID # 10320 Page 2 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Benzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
Toluene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Ethyl Benzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
m + p Xylene	ug/Kg	< 4.8		08/07/02	4.8192	EPA8021
o Xylene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Xylene	ug/Kg	< 7.2		08/07/02	7.2289	EPA8021
Isopropylbenzene	ug/Kg	6.0		08/07/02	2.4096	EPA8021
n-Propylbenzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
124-Trimethylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
sec-Butylbenzene	ug/Kg	8.4		08/07/02	2.4096	EPA8021
p-Isopropyltoluene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
n-Butylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Naphthalene(1)	ug/Kg	29		08/07/02	2.4096	EPA8021
tert-Butylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
% Solids		83		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17584 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1700		08/09/02	361.44	EPA8270
Acenaphthene	ug/Kg	1200		08/09/02	361.44	EPA8270
Fluorene	ug/Kg	1400		08/09/02	361.44	EPA8270
Phenanthrene	ug/Kg	8600		08/09/02	361.44	EPA8270
Anthracene	ug/Kg	2200		08/09/02	361.44	EPA8270
Fluoranthene	ug/Kg	11000		08/09/02	361.44	EPA8270
Pyrene	ug/Kg	11000		08/09/02	361.44	EPA8270
Benzo(a)anthracene	ug/Kg	6300		08/09/02	361.44	EPA8270
Chrysene	ug/Kg	6300		08/09/02	361.44	EPA8270
Benzo(b)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(k)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(a)pyrene	ug/Kg	5800		08/09/02	361.44	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2500		08/09/02	361.44	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	1300		08/09/02	361.44	EPA8270
Benzo(ghi)perylene	ug/Kg	2400		08/09/02	361.44	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =11000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17585 NYSDOH ID # 10320 Page 2 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.03 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMet ylEther	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Ethyl Benzen e	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
m + p Xylene	ug/Kg	< 4.6		08/07/02	4.5977	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Xylene	ug/Kg	< 6.9		08/07/02	6.8965	EPA8021
Isopropylben zene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Propylbenz ne	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
135-Trimethy lbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
124-Trimethy lbenzene	ug/Kg	2.3		08/07/02	2.2988	EPA8021
sec-Butylben zene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
p-Isopropylt oluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Butylbenze ne	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Naphthalene(r)	ug/Kg	37		08/07/02	2.2988	EPA8021
tert-Butylbe nzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
% Solids		87		08/05/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17586 NYSDOH ID # 10320 Page 1 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223612.03 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(1v)	ug/Kg	1500		08/09/02	344.82	EPA8270
Acenaphthene	ug/Kg	710		08/09/02	344.82	EPA8270
Fluorene	ug/Kg	780		08/09/02	344.82	EPA8270
Phenanthrene	ug/Kg	6700		08/09/02	344.82	EPA8270
Anthracene	ug/Kg	1800		08/09/02	344.82	EPA8270
Fluoranthene	ug/Kg	8000		08/09/02	344.82	EPA8270
Pyrene	ug/Kg	8300		08/09/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	4000		08/09/02	344.82	EPA8270
Chrysene	ug/Kg	4000		08/09/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	3700		08/09/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		08/09/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	780		08/09/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	1700		08/09/02	344.82	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total =6600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17587 NYSDOH ID # 10320

Gannett Fleming

GANNETT FLEMING ENGINEERS
AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707

Phone: (516) 671-8440
Fax: (516) 671-3349
Internet: www.gannettfleming.com

FAX TRANSMITTAL FORM

Job #: 39936.000

CC: Robert Dengler 412 859-5450

To: Jeffrey Vought	
Company: NYSDEC	Fax Number: 718 482 4098
From: Gregory Ernst	Extension:
Date: 8/16/02	# of Pages (Including this Page): 10

Comments: Soil Data for UST Excavation w/ Site Plan.

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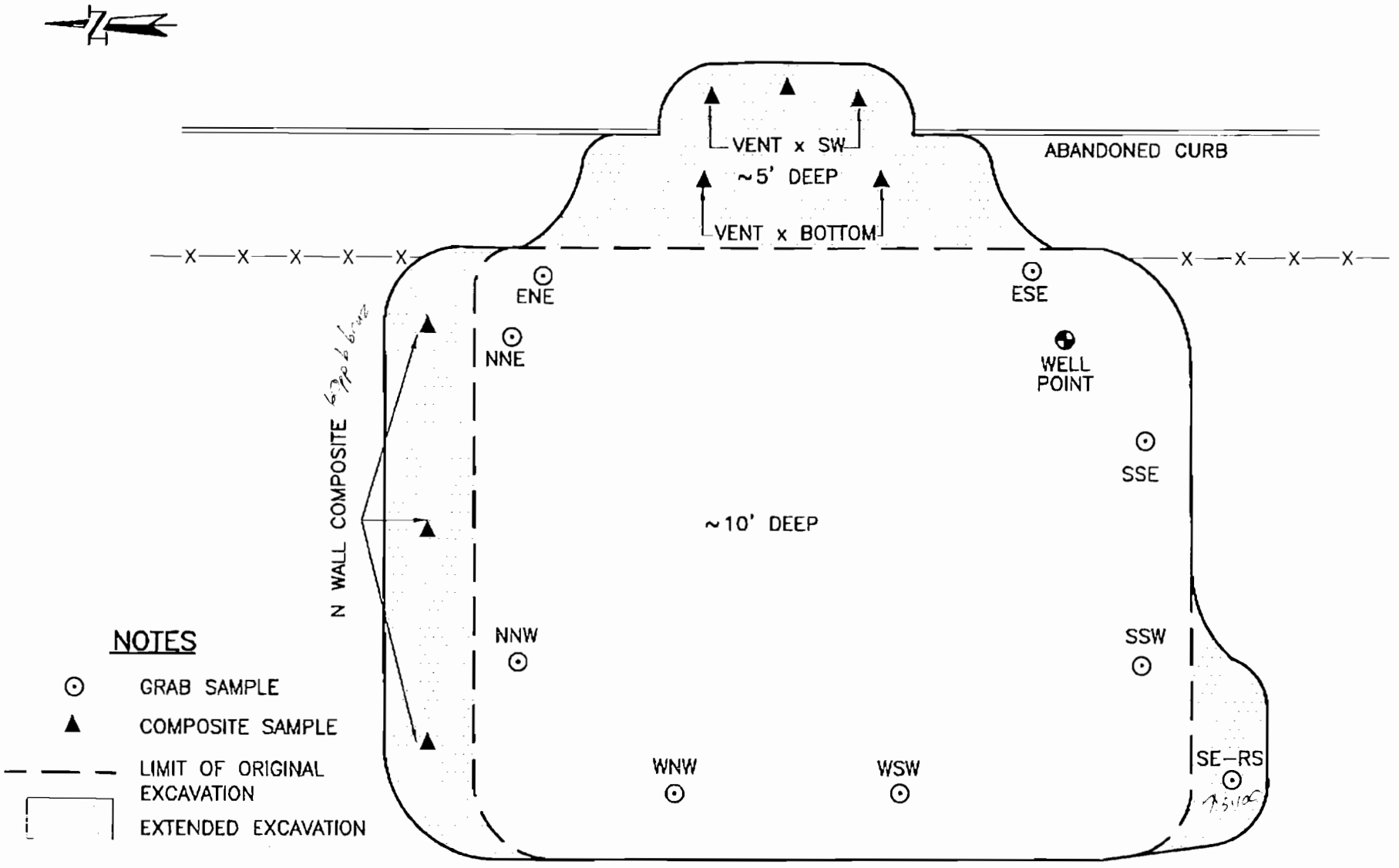


UST EXCAVATION SITE PLAN

FEDEX GROUND

300 MASPETH AVE., BROOKLYN, NEW YORK

39936B
081202

Gannett Fleming

FIGURE 2

08/16/2002 12:26 FAX 5166713352 GANNETT FLEMING 002/010

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.01 08/05/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Toluene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Ethyl Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
m + p Xylene	ug/Kg	< 11		08/03/02	10.869	EPA8021
o Xylene	ug/Kg	29		08/03/02	5.4347	EPA8021
Xylene	ug/Kg	36		08/03/02	16.304	EPA8021
Isopropylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
n-Propylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
135-Trimethylbenzene	ug/Kg	350		08/03/02	5.4347	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
sec-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
p-Isopropyltoluene	ug/Kg	20		08/03/02	5.4347	EPA8021
n-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Naphthalene(7)	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
tert-Butylbenzene	ug/Kg	9.8		08/03/02	5.4347	EPA8021
% Solids		92		07/29/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 26609 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.01 08/05/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	460		07/30/02	326.08	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Phenanthrene	ug/Kg	1300		07/30/02	326.08	EPA8270
Anthracene	ug/Kg	540		07/30/02	326.08	EPA8270
Fluoranthene	ug/Kg	2800		07/30/02	326.08	EPA8270
Pyrene	ug/Kg	2800		07/30/02	326.08	EPA8270
Benzo(a)anthracene	ug/Kg	1400/204		07/30/02	326.08	EPA8270
Chrysene	ug/Kg	1300/400		07/30/02	326.08	EPA8270
Benzo(b)fluoranthene	ug/Kg	1500/220	*	07/30/02	326.08	EPA8270
Benzo(k)fluoranthene	ug/Kg	1500/220	*	07/30/02	326.08	EPA8270
Benzo(a)pyrene	ug/Kg	1500/61		07/30/02	326.08	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	410		07/30/02	326.08	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Benzo(ghi)perylene	ug/Kg	400		07/30/02	326.08	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 3000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 76610 NYSDOH ID # 10320

08/05/2002 MON 09:53 [TX/RX NO 7654]

08/16/2002 12:26 FAX 5166713352 GANNETT FLEMING 004/010

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.02 08/09/02 UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Benzene *	ug/Kg	120/60		08/03/02	5.5555	EPA8021
Toluene	ug/Kg	30		08/03/02	5.5555	EPA8021
Ethyl Benzene	ug/Kg	310		08/03/02	5.5555	EPA8021
m + p Xylene	ug/Kg	1100		08/03/02	11.111	EPA8021
o Xylene	ug/Kg	190		08/03/02	5.5555	EPA8021
Xylene	ug/Kg	1200		08/03/02	16.666	EPA8021
Isopropylbenzene	ug/Kg	92		08/03/02	5.5555	EPA8021
n-Propylbenzene	ug/Kg	180		08/03/02	5.5555	EPA8021
135-Trimethylbenzene	ug/Kg	5900/2300		08/03/02	5.5555	EPA8021
124-Trimethylbenzene	ug/Kg	11000/10000		08/03/02	5.5555	EPA8021
sec-Butylbenzene	ug/Kg	80		08/03/02	5.5555	EPA8021
p-Isopropyltoluene	ug/Kg	240		08/03/02	5.5555	EPA8021
n-Butylbenzene	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Naphthalene(+)	ug/Kg	190		08/03/02	5.5555	EPA8021
tert-Butylbenzene	ug/Kg	13		08/03/02	5.5555	EPA8021

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 16611 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223492.02 08/09/02 UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(wv)	ug/Kg	370		07/30/02	333.33	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Phenanthrene	ug/Kg	860		07/30/02	333.33	EPA8270
Anthracene	ug/Kg	340		07/30/02	333.33	EPA8270
Fluoranthene	ug/Kg	2000		07/30/02	333.33	EPA8270
Pyrene	ug/Kg	2000		07/30/02	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	940 /221		07/30/02	333.33	EPA8270
Chrysene	ug/Kg	910/400		07/30/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	940/220	*#	07/30/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	940/220	*#	07/30/02	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	1000/61	#	07/30/02	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	330	#	07/30/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330	#	07/30/02	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	330	#	07/30/02	333.33	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 1880 ug/Kg, unable to separate isomers.
#Estimated due to low internal standard, *46%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 16612 NYSDOH ID # 10320 Page 2 of 2

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.01 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	112.35	EPA8021
Benzene	ug/Kg	110 60		08/07/02	112.35	EPA8021
Toluene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Ethyl Benzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
m + p Xylene	ug/Kg	220		08/07/02	224.71	EPA8021
o Xylene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Xylene	ug/Kg	310		08/07/02	337.07	EPA8021
Isopropylbenzene	ug/Kg	430		08/07/02	112.35	EPA8021
n-Propylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
135-Trimethylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
124-Trimethylbenzene	ug/Kg	170		08/07/02	112.35	EPA8021
sec-Butylbenzene	ug/Kg	850		08/07/02	112.35	EPA8021
p-Isopropyltoluene	ug/Kg	110		08/07/02	112.35	EPA8021
n-Butylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
Naphthalene(')	ug/Kg	900		08/07/02	112.35	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
% Solids		89		07/31/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17018 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon. NY 11703
631 422-5777

LAB NO.223545.01 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	520		08/02/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Phenanthrene	ug/Kg	2000		08/02/02	337.07	EPA8270
Anthracene	ug/Kg	520		08/02/02	337.07	EPA8270
Fluoranthene	ug/Kg	2900		08/02/02	337.07	EPA8270
Pyrene	ug/Kg	2600		08/02/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	1200/224		08/02/02	337.07	EPA8270
Chrysene	ug/Kg	1300/400		08/02/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	960/920	#	08/02/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	960/920	#	08/02/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	1100/64		08/02/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	600		08/02/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	630		08/02/02	337.07	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 1920 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17019 NYSDOH ID # 10320

08/09/2002 FRI 16:19 [TX/RX NO 7792]

08/16/2002 12:26 FAX 5166713352 GANNETT FLEMING 008/010

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.02 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	114.94	EPA8021
Benzene	ug/Kg	110/100		08/07/02	114.94	EPA8021
Toluene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Ethyl Benzene	ug/Kg	230		08/07/02	114.94	EPA8021
m + p Xylene	ug/Kg	600		08/07/02	229.88	EPA8021
o Xylene	ug/Kg	140		08/07/02	114.94	EPA8021
Xylene	ug/Kg	740		08/07/02	344.82	EPA8021
Isopropylbenzene	ug/Kg	260		08/07/02	114.94	EPA8021
n-Propylbenzene	ug/Kg	860		08/07/02	114.94	EPA8021
135-Trimethylbenzene	ug/Kg	830		08/07/02	114.94	EPA8021
124-Trimethylbenzene	ug/Kg	1700		08/07/02	114.94	EPA8021
sec-Butylbenzene	ug/Kg	410		08/07/02	114.94	EPA8021
p-Isopropyltoluene	ug/Kg	200		08/07/02	114.94	EPA8021
n-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Naphthalene(1)	ug/Kg	1100		08/07/02	114.94	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
% Solids		87		07/31/02	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 17020 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.223545.02 08/09/02

UST

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		08/02/02	344.82	EPA8270
Acenaphthene	ug/Kg	520		08/02/02	344.82	EPA8270
Fluorene	ug/Kg	520		08/02/02	344.82	EPA8270
Phenanthrene	ug/Kg	5900		08/02/02	344.82	EPA8270
Anthracene	ug/Kg	1100		08/02/02	344.82	EPA8270
Fluoranthene	ug/Kg	5400		08/02/02	344.82	EPA8270
Pyrene	ug/Kg	6200		08/02/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	2500 /224		08/02/02	344.82	EPA8270
Chrysene	ug/Kg	2500 /400		08/02/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	2000 /220	#	08/02/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	2000 /220	#	08/02/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	2400 /61		08/02/02	344.82	EPA8270
Indeno(1.2.3-cd)pyrene	ug/Kg	780		08/02/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340 /14		08/02/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	780		08/02/02	344.82	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 4000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 17021 NYSDOH ID # 10320

08/09/2002 FRI 16:19 [TX/RX NO 7792]

08/16/2002 12:27 FAX 5166713352 GANNETT FLEMING 010/010

Gannett Fleming

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
480 Forest Avenue
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
www.gannettfleming.com

NYS DEC REGION 2
RECEIVED
2004 JUN -9 PM 12: 39

June 8, 2004
File # 39936

Jeffrey Vought
NYSDEC – Bureau of Spills Management
47-40 21st Street
Long Island City, New York 11101-5407

Re: Site Investigation
FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter report documents the results of investigative activities conducted at the above referenced site. A site location map is provided as Figure 1, attached. This investigation was conducted to further assess impacts associated with two recent New York State Department of Environmental Conservation (NYSDEC) spill numbers assigned to the site. NYSDEC Spill #0202804 addresses petroleum-impacted soils discovered during the removal of 20 underground storage tanks located in the northeastern portion of the site in June and July 2002. NYSDEC Spill #0204002 was assigned to black-stained soil exhibiting strong petroleum odors discovered in the southwestern portion of the site during construction activities. A review of historic Sandborn Maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. The investigation of impacted soil associated with both spill numbers was previously discussed in our August 28, 2002 letter report.

The scope of this investigation was developed based upon the conclusions and recommendations provided by Gannett Fleming (GF) in our August 28, 2002 letter report. The purpose of this investigation was to confirm that polynuclear aromatic hydrocarbon (PAH) concentrations detected in soil are ubiquitous to the urban fill at the site and to determine if on-site and off-site petroleum releases have impacted groundwater quality at the site. Soil samples were collected from six soil borings advanced at the site. Soil samples were collected to assess PAH concentrations in soil throughout the site relative to the areas of the former underground storage tank (UST) excavation (Spill #0202804) and in the southwest portion of the site (Spill #0204002) where the former Brooklyn Union Gas terminal was present. Monitoring wells were installed in each of the boreholes to assess on-site groundwater quality. A Site Plan is provided as Figure 2.

Continued . . .

Background

In June and July 2002, Brookside Environmental Services (Brookside) removed 20 USTs and approximately 900 tons of petroleum-impacted soil from the site. Spill #0202804 was issued to the site due to the petroleum impact to the site subsurface caused by the USTs.

Soil Boring Advancement and Soil Sampling

On December 8 and 9, 2003, Associated Environmental Services, Inc. (Associated), under contract to GF, advanced six soil borings (B-1 through B-6) using a hollow stem drill rig (B-1, B-5, B-6) or a Geoprobe® rig (B-2, B-3, B-4). The soil borings were drilled at the monitoring well locations MW-1 through MW-6 in advance of installing the wells (see below). A site plan depicting the soil boring locations is provided as Figure 2, attached. Soil samples were collected continuously down to the water table using a 2-foot long split spoon (SS) sampler (B-1, B-5, B-6) or a 4-foot long Macro-Core® sampler with dedicated acetate liners (B-2, B-3, B-4). All non-dedicated sampling equipment, i.e. SS sampler, was field decontaminated using a non-phosphate detergent wash followed by a potable water rinse prior to and between each sample collection. A new acetate liner was used for each sample collected using the GeoProbe® rig. Each sample was lithologically logged and field screened for organic vapors using a photoionization detector (PID) by a GF environmental professional. The soil boring logs are provided in Attachment A.

One soil sample was retained from each boring from the depth interval exhibiting the greatest evidence (odor, staining, or PID reading) of contamination. For borings exhibiting no evidence of contamination, a soil sample was retained from immediately above the water table. Retained samples were placed in an ice-filled cooler and delivered to EcoTest Laboratories, Inc. (NELAP #10320) for analysis for VOCs by Method 8021 and PAHs via Method 8270 using New York Department of Environmental Conservation (NYSDEC) Spill Technology and Remediation Series (STARS) Memorandum #1 criteria. Chain-of-Custody protocols were followed for the handling and delivery of the soil samples.

Monitoring Well Installation and Groundwater Sampling

Monitoring wells (MW-1 through MW-6) were installed in each of the boreholes (B-1 through B-6). An additional monitoring well (MW-7) was installed in the area of the former UST excavation to replace a former well point (WP-1) destroyed during site development activities.

Continued . . .

A borehole was drilled at each well location to a depth of approximately 20 feet below grade with a drill rig using 6-inch diameter hollow stem augers, with the exception of MW-3. At MW-3, the borehole was drilled using a 4-½ inch hollow stem auger because MW-3 was installed in a pre-existing 1-foot diameter manway located within the newly constructed, reinforced concrete truck apron. Groundwater was encountered at a depth of approximately 8 feet through out the site. Monitoring wells consisting of 4-inch diameter PVC with a 15-foot screened interval were installed at each location, with the exception of MW-3 (which was completed as a 2-inch diameter monitoring well). Once the well riser was in place, each borehole was backfilled with #2 sand up to a depth of 2 feet below grade. A bentonite seal was installed above the sandpack. Wells were finished with a concrete slab and an at-grade flush-mount curb-box cover. Locking well caps were placed on all monitoring wells. GF personnel developed each of the wells using a centrifugal pump. Each well was developed by purging a minimum of 5 well volumes or until dry. Well construction logs are provided in Attachment B.

GF personnel returned to the site on January 6, 2004 to sample the on-site monitoring wells. Prior to sampling, depth to water measurements were collected from each well. Each monitoring well was purged of groundwater a minimum of three volumes or until dry using a centrifugal pump with dedicated polyethylene tubing. The wells that dried were allowed to recover prior to sample collection. Groundwater samples were collected from each monitoring well using dedicated polyethylene bailers. Samples were placed in an ice-filled cooler and delivered to EcoTest for analysis for VOCs by EPA Method 8021 and PAHs by EPA Method 8270 using NYSTARS criteria. Chain-of-Custody protocols were followed for the handling and delivery of the groundwater samples. Glassware containing a portion of the groundwater sample from MW-5 was destroyed during transport. GF personnel returned to the site on January 9, 2004 to resample the well.

The drill cuttings from monitoring installation were placed in eight 55-gallon drums for transport and disposal. On March 3, 2004, the eight drums of drill cuttings were transported from the site for disposal at Waste Recovery Solutions, Inc. in Myerstown, Pennsylvania as non-hazardous waste.

Results

Based upon groundwater elevation measurements, groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site. A site plan depicting groundwater elevation contours is provided as Figure 2.

Continued . . .

No VOCs were detected above Recommended Soil Cleanup Objectives (RSCOs) in any of the six soil samples. The following PAH compounds were detected over RSCOs:

	NYSDEC Recommended Soil Cleanup Objectives (RSCOs)	B-1 (9'-10')	B-2 (7'-7.5')	B-3 (9'-10')	B-4 (8'-9')	B-5 (8'-9')	B-6 (9'-10')
Benzo(a)anthracene	224 or MDL	620	2,100	4,800	4,000	3,300	1,000
Benzo(b)fluoranthene	220 or MDL	500	1,900	4,100	3,900	2,700	850
Benzo(k)fluoranthene	220 or MDL	500	1,900	4,100	3,900	2,700	850
Benzo(a)pyrene	61 or MDL	560	1,900	4,200	4,000	2,700	760
Chrysene	400	560	2,000	5,200	3,700	3,300	990
Dibenzo(a,h)anthracene	143 or MDL	--	--	800	360	450	--

All concentrations are measured in micrograms per kilogram (µg/kg).

No VOCs or PAHs were detected above NYSDEC Groundwater Standards in MW-3, MW-4, MW-5, or MW-6. The following VOC and PAH compounds were detected above NYSDEC Groundwater Standards in MW-1, MW-2, and MW-7:

	NYSDEC Groundwater Standards	MW-1	MW-2	MW-7
Benzene	0.7	--	10	20
Ethylbenzene	5	21	7	7
Total Xylenes	5	--	--	35
1,2,4-Trimethylbenzene	5	--	--	12
1,3,5-Trimethylbenzene	5	13	--	--
Naphthalene (VOC)	10	--	93	52
Benzo(a)anthracene	0.002	--	1	--
Chrysene	0.002	--	1	--
Naphthalene (PAH)	10	97	43	28

All concentrations are measured in micrograms per liter (µg/l).

Laboratory data sheets are provided as Attachment C.

Conclusions

- The soils observed beneath the site consist of between approximately five to eight feet of "urban fill" (soil mixed with concrete, brick, and C&D material) over tight, organic clay. Based on the history of the site, the organic clay is remnant of the salt marsh present in this area prior to development.
- No VOCs were detected above NYSDEC RSCOs in any soil samples collected from the six borings.

Continued . . .

- Several PAH compounds were detected above NYSDEC RSCOs in soil samples collected from the six borings.
- No VOC or PAH compounds were detected above NYSDEC groundwater standards in MW-3, MW-4, MW-5, or MW-6.
- Several VOC compounds were detected above NYSDEC Groundwater Standards in MW-1, MW-2, and MW-7. Additionally, two PAH compounds were detected above groundwater standards in MW-2.

The occurrence of PAHs in the soils at the FedEx Ground facility appear to be ubiquitous within the urban fill material observed in the borings and presumably placed on the site when first developed in the 1950's. Concentrations of PAHs in soil samples were consistent throughout the site. Soil samples collected from areas away from the former tank locations (i.e. the USTs and the Brooklyn Union Gas terminal) also detected PAHs. The distribution of PAHs and consistency in their concentrations is indicative of the general fill quality found at the site.

The occurrence of VOCs in the groundwater samples collected from MW-1, MW-2, and MW-7 are likely indicative of regional groundwater quality. The site is located in a predominantly industrial area of Brooklyn, New York and there are significant known impacts to regional groundwater quality.

Recommendations

The following recommendations are provided regarding the soils and groundwater at the FedEx Ground facility.

- No further actions are recommended for on-site soils. VOCs were not detected above the NYSDEC RSCOs, and concentrations of PAHs appear characteristic of the urban filled placed at the site during its first development in the 1950's.
- No further actions are recommended for on-site groundwater. VOC concentrations detected above NYSDEC Groundwater Standards in MW-1, MW-2, and MW-7 appear characteristic of regional groundwater quality. There are significant known impacts to regional groundwater quality and groundwater is not used for potable use in the vicinity of the site. No exposure pathways exist at the site so that the relatively low VOC concentrations on the site do not pose a threat the human health or the environment. The removal of the USTs and adjacent VOC contaminated soil from the site effectively ends any contribution to the poor regional groundwater quality. GF recommends that Spill Numbers #0202804 and #0204002 be closed for the site and no further action be required by NYSDEC.

Continued . . .

Please feel free to call with any questions.

Very Truly Yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

MANFRED W. BOHMS
Environmental Engineer

STEPHEN R. HIX
Director of Environmental Services

Enc
cc: Jerry Swart
Robert Dengler
Daniel LaPorte
Mark Lucken
Jerry Cereghino
Doug Eilender, Esq.

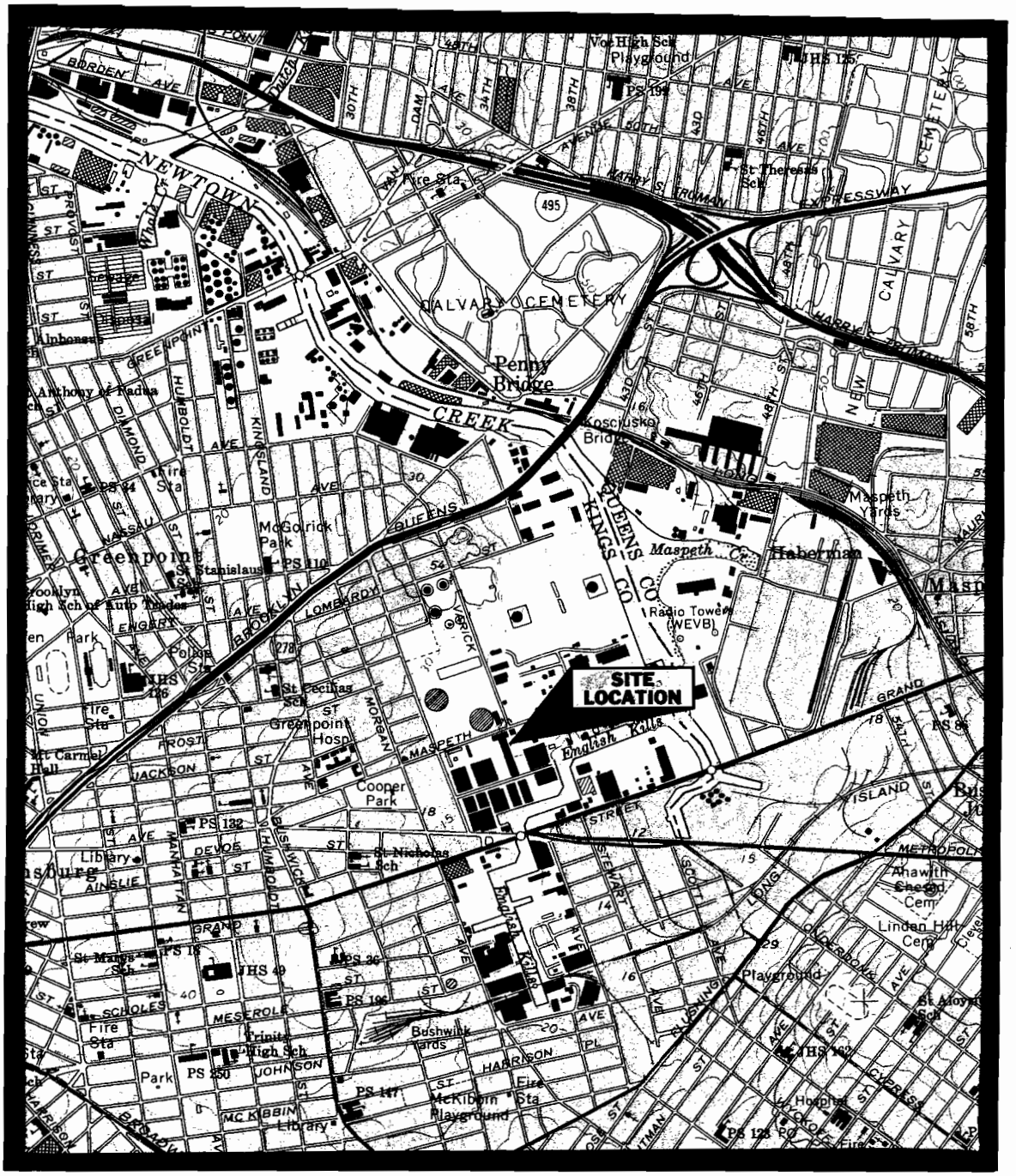
R:\CLERICAL\PROJECTS\39900\39936\SI rpt 1-04 r1.doc

Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

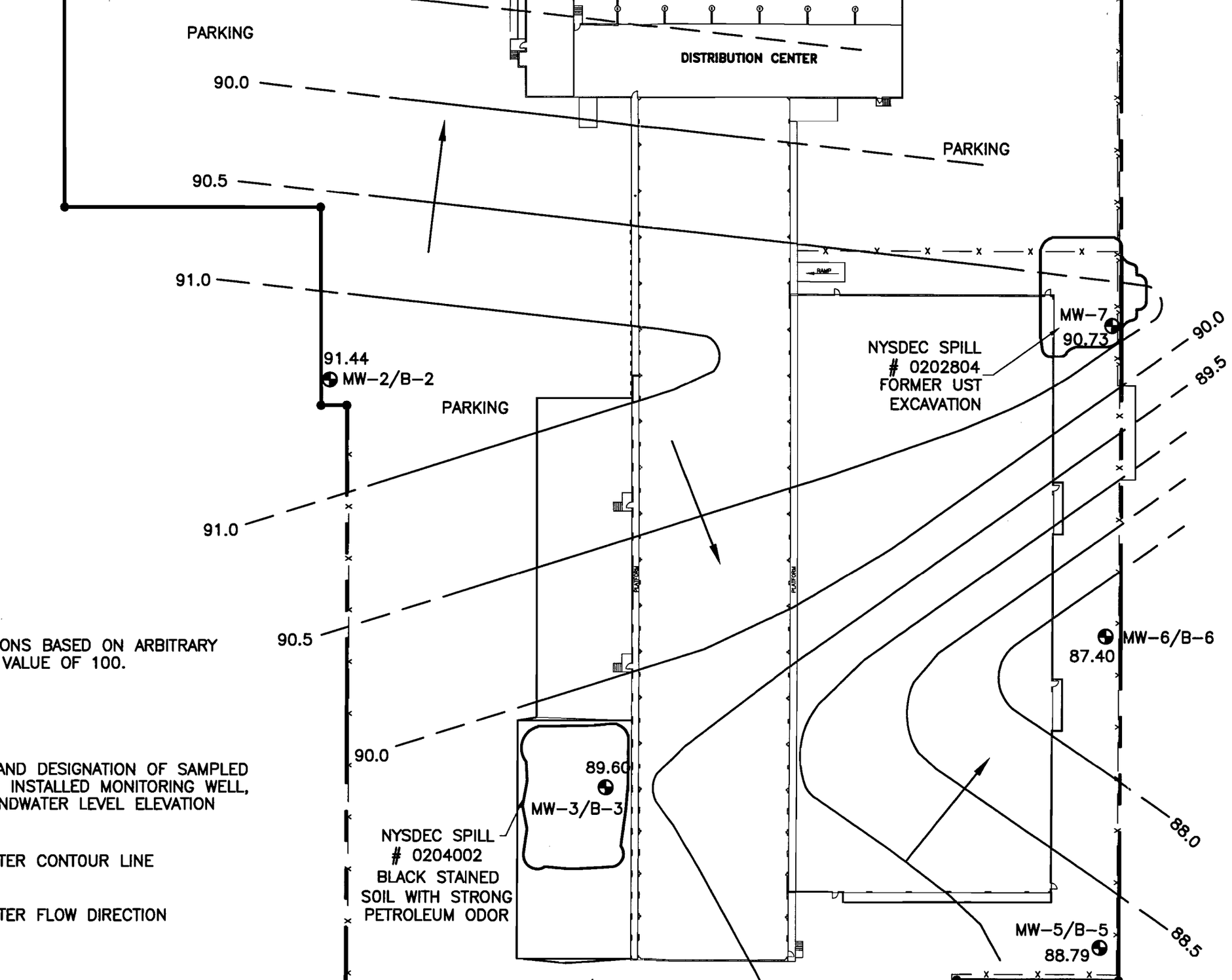
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP



ONS BASED ON ARBITRARY
VALUE OF 100.

AND DESIGNATION OF SAMPLED
INSTALLED MONITORING WELL,
NDWATER LEVEL ELEVATION

TER CONTOUR LINE

TER FLOW DIRECTION

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/8/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow-stem auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 8.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 0.5'			Asphalt	
1	0.1	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger Petroleum-like odor Dark coloring
2								
3								
4								
5	0.0	13 17		5' - 6'	Saturated	1.75'	Light brown, soft, CLAY with trace M Sand, with little brick frag	No odor Dark staining
6		15 15		6' - 7'			Dark brown, loose, CLAY with little brick fragments, with trace Gravel	
7	NA	10 10 13 12		7' - 9'	NA	0	NA	No recovery
8								
9	0.0	14 25 21 14	B-1 (9' - 11')	9' - 11'	Saturated	2'	Dark brown, loose CLAY, with some F to M Gravel, with trace F Sand	No odor Dark staining
10								
11								**Well set at 20' bgs**
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 7.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 0.5'			Asphalt	
1	0.4	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
2								
3								
4								
5	37.0	NA		5' - 7'	Slightly moist to moist	3.5'	Dark brown, loose, F Sand with little F Gravel	Petroleum-like odor Dark staining
6								
7			B-2 7' - 7.5'	7.5' - 8'	Saturated			
8								**Well set at 20' bgs**
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 10'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	NA			0 - 2'	NA	NA	Concrete	
2	47.1			2' - 5'	Slightly moist	3.5'	Dark brown, M soft, CLAY with little F Gravel	Dark Staining Petroleum-like odor
3								
4								
5				5' - 6'			Black F Sand	
6	125.0			6' - 7'	Very moist	3.75'	Dark brown, M stiff CLAY with trace brick fragments	Petroleum-like odor Heavy staining
7				7' - 8'			Light brown, loose, F SAND with trace F Gravel	
8		B-3 (9' - 10')		8' - 10'			Dark brown, M stiff CLAY with trace brick fragments	
9								
10				10' - 11'	Saturated			**Well set at 20' bgs**
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 9'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.0			0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger
2								
3								
4								
5	0.0			5' - 6'	Slightly moist	3'	Light brown, loose, F SAND, with trace F Gravel	No odor No staining
6	0.0		B-4 (8' - 9')	6' - 9'	Slightly moist		Light brown, M stiff, CLAY, with trace F Gravel	
7								
8								
9				9' - 11'	Saturated			**Well set at 20' bgs**
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-5	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/8/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow Stem Auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 8'		

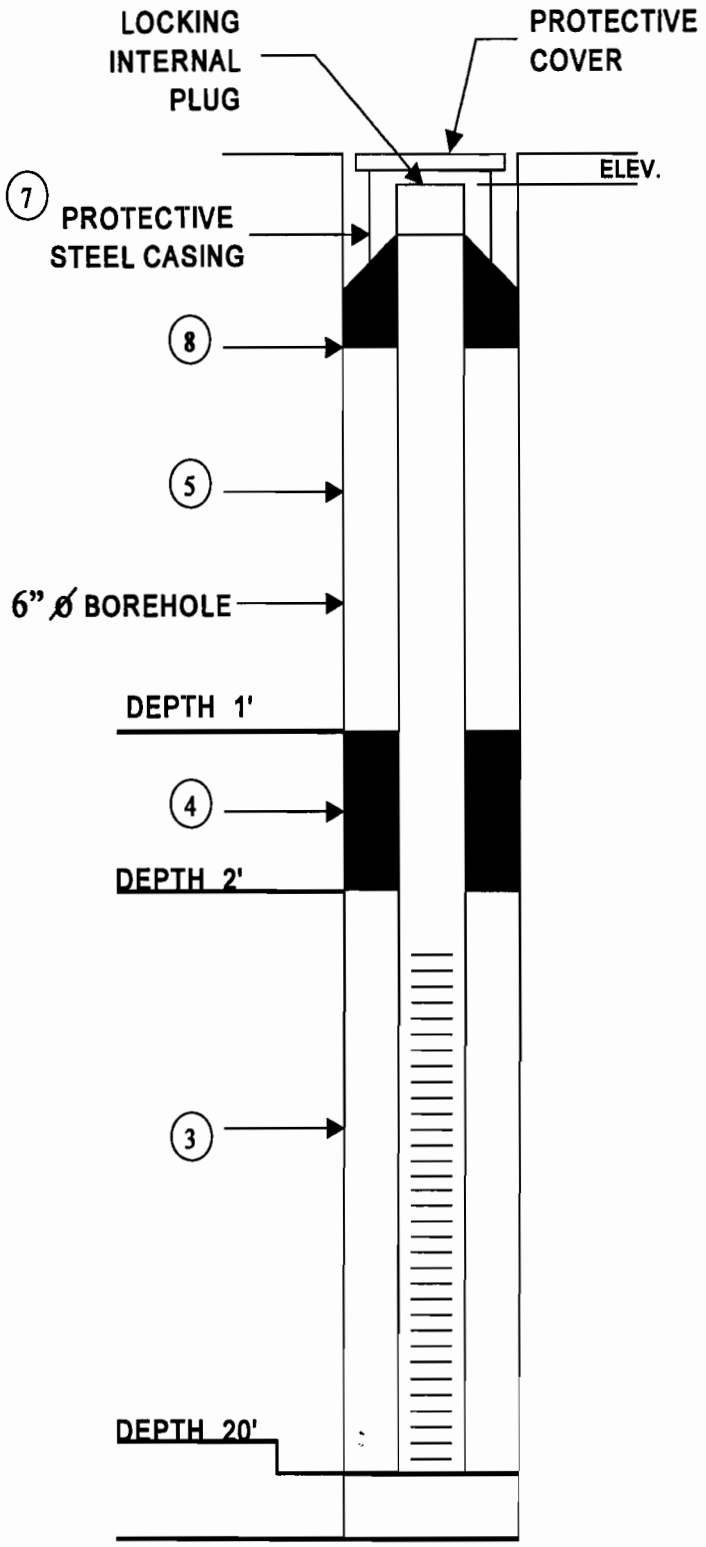
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.0			0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
2								
3								
4								
5	0.0	5		5' - 5.5'	Moist	1.75'	RCA fill material	No odor
6		17 15 14		5.5' - 7'			Dark brown, M tight, CLAY with trace brick fragments, trace F Sand, trace rock fragments	Dark staining
7	3.7	15 15		7' - 8.5'	Moist	1.75'	Dark brown, M tight, CLAY with trace brick/rock fragments, trace F Sand	Slight creosote-like odor
8		15 15	B-5 (8' - 9')	8.5' - 9'	Saturated		Dark brown, soft , SANDY CLAY, with some wood, with trace C Sand	Dark staining
9								**Well set at 20' bgs**
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-6	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow Stem Auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 10'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.7	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
2								
3								
4								
5	0.0	12 29 13 15		5' - 7'	Slightly moist	1'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
6								
7	0.0	13 15 18 12		7' - 9'	Slightly moist	1.25'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
8								
9	0.0	13 12 17 14	B-6 (9' - 10')	9' - 10' 10' - 11'	Slightly moist Saturated	1.25'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
10								
11								**Well set at 20' bgs**
12								
13								
14								
15								
16								
17								
18								
19								
20								

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/8/03 WELL No.: MW-1

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

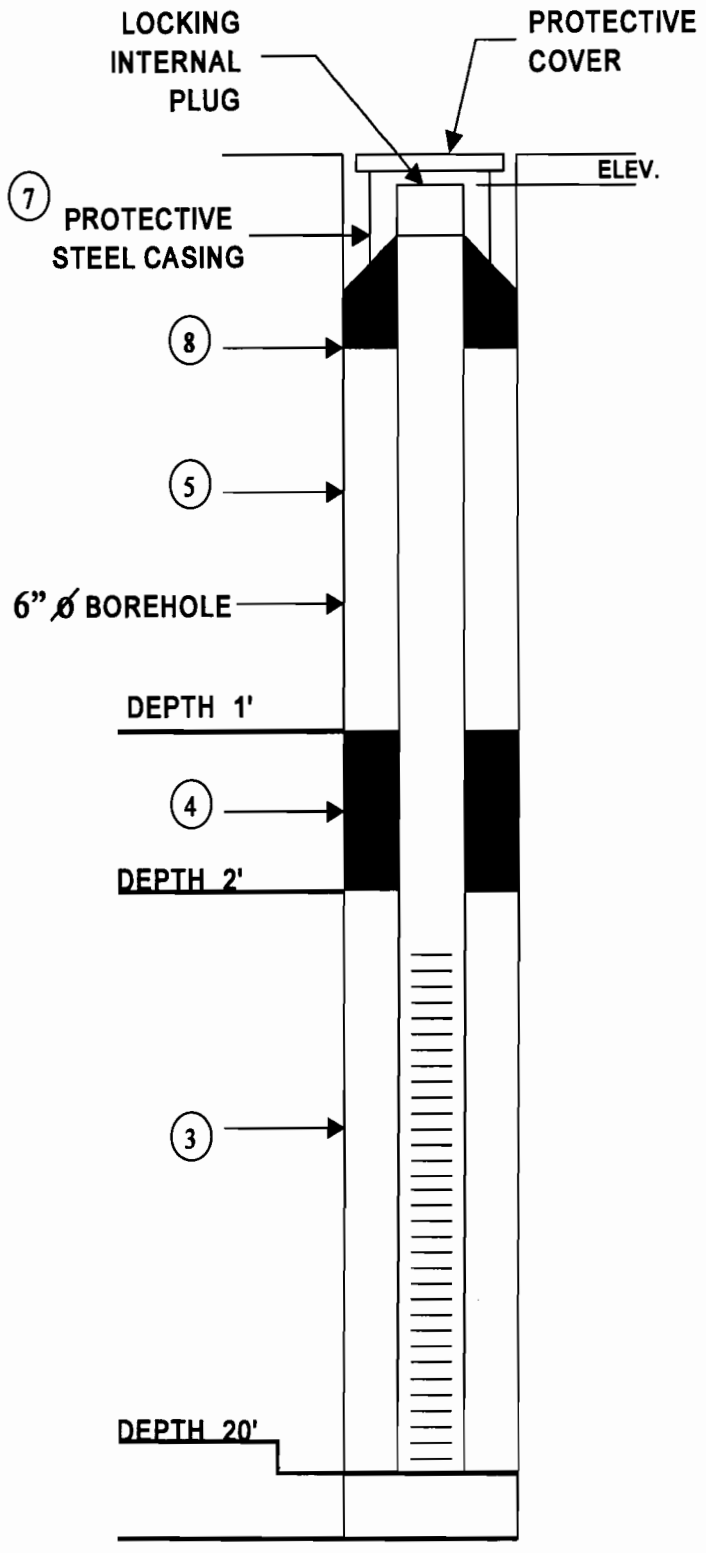
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1100	4.40	Undeveloped
12/15/03	1200	4.98	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/15/03 WELL No.: MW-2

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

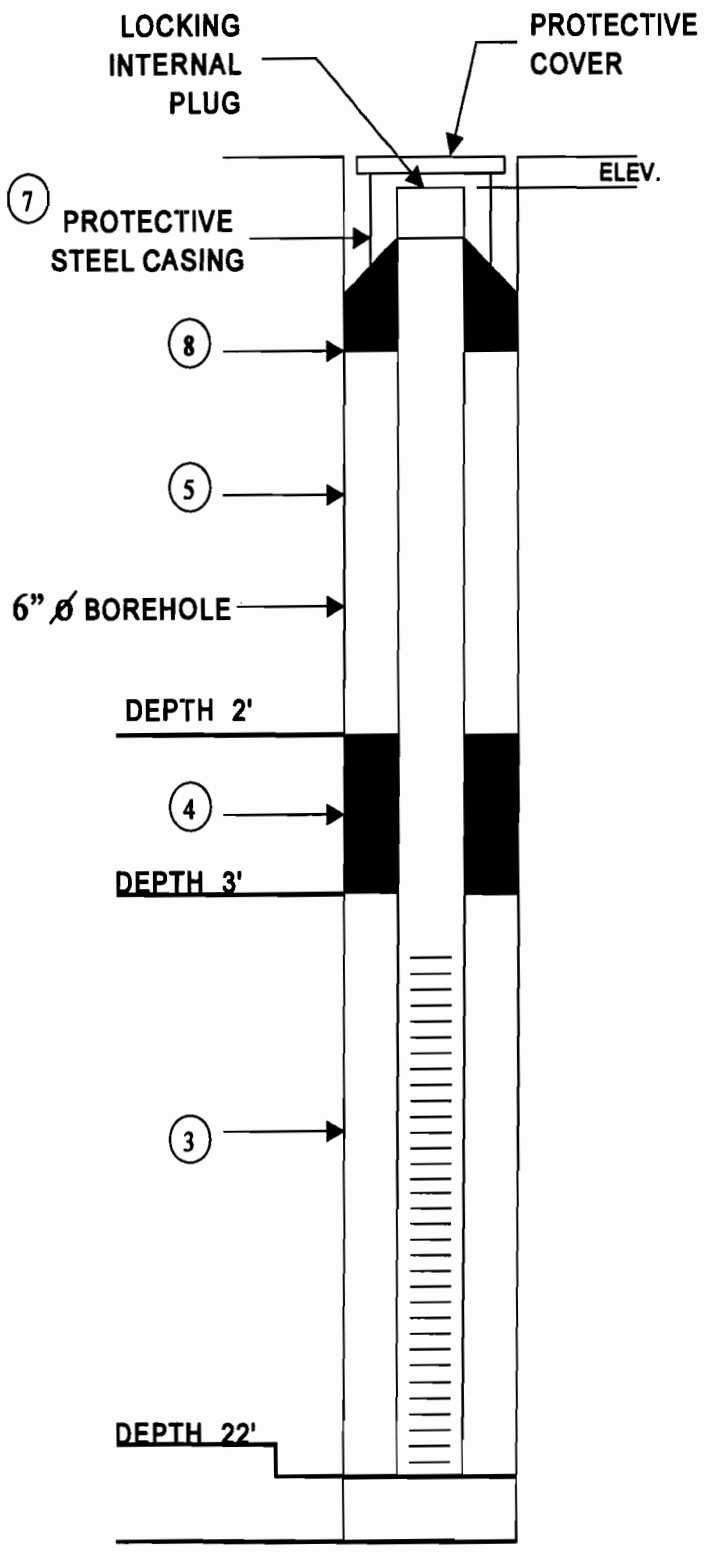
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1630	5.28	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/10/03 WELL No.: MW-3

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 7'

PIPE & SCREEN DIA. : 2"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

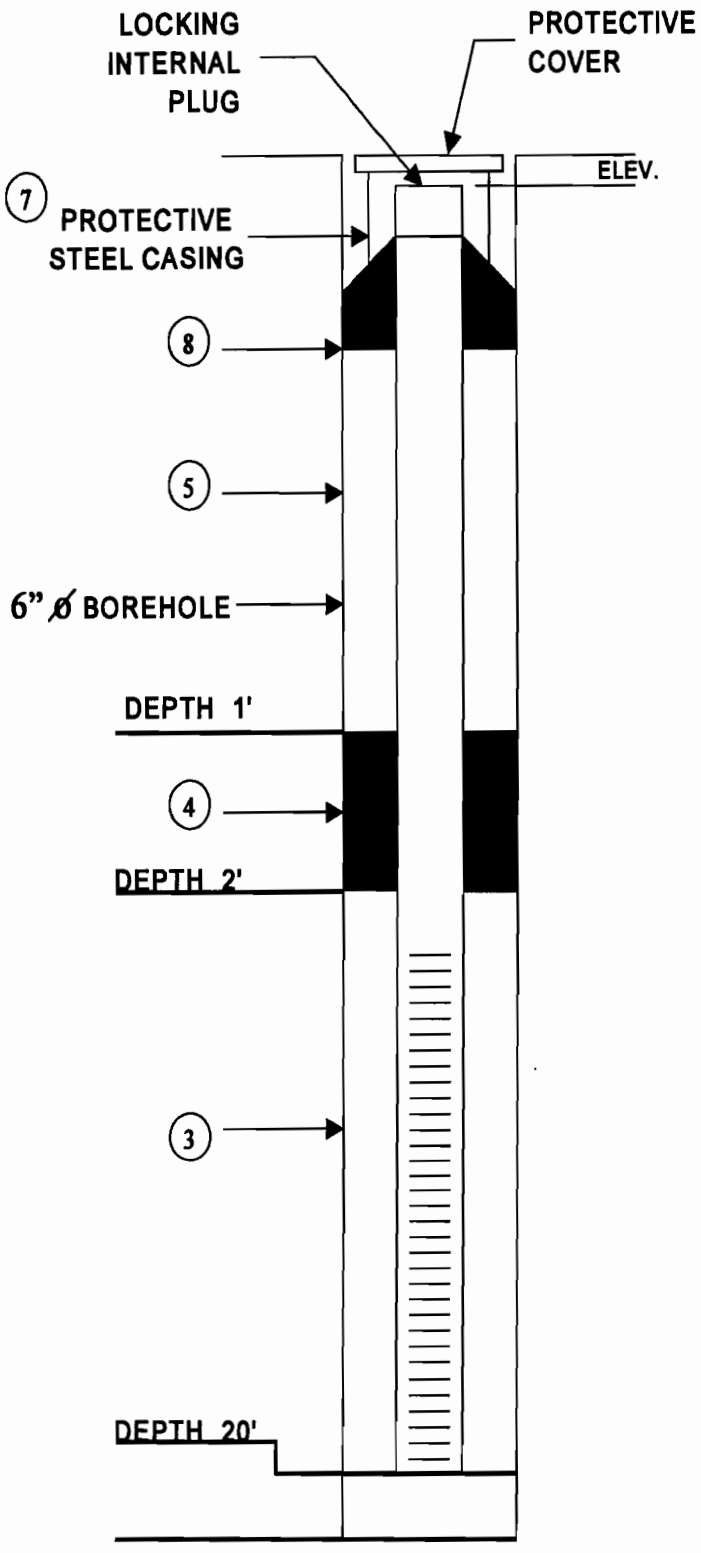
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1330	6.49	Undeveloped
12/15/03	1700	17.52	Developed Poor Recharge

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/15/03 WELL No.: MW-4

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

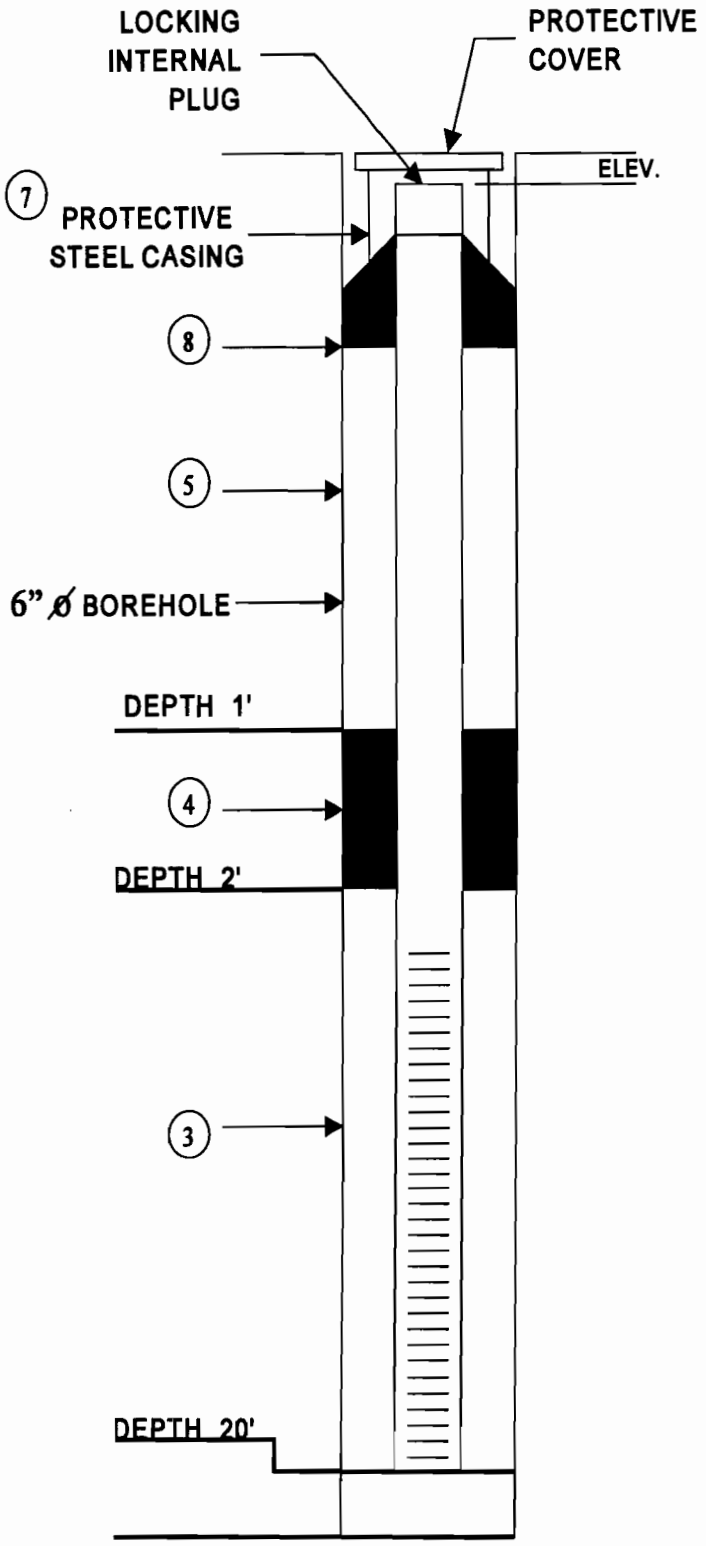
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1315	6.70	Undeveloped
12/15/03	1645	6.78	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/8/03 WELL No.: MW-5

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

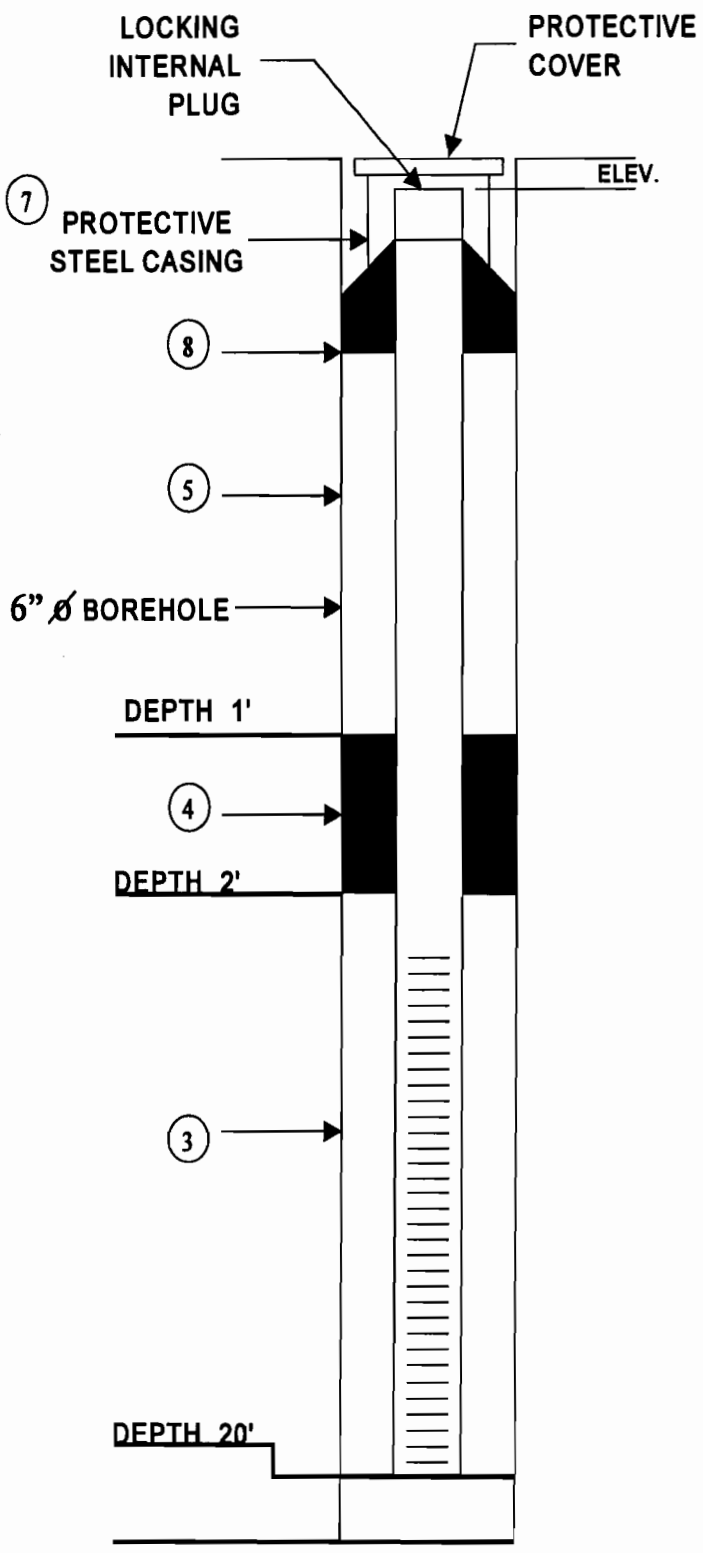
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1545	7.25	Undeveloped
12/15/03	1640	7.56	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/9/03 WELL No.: MW-6

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

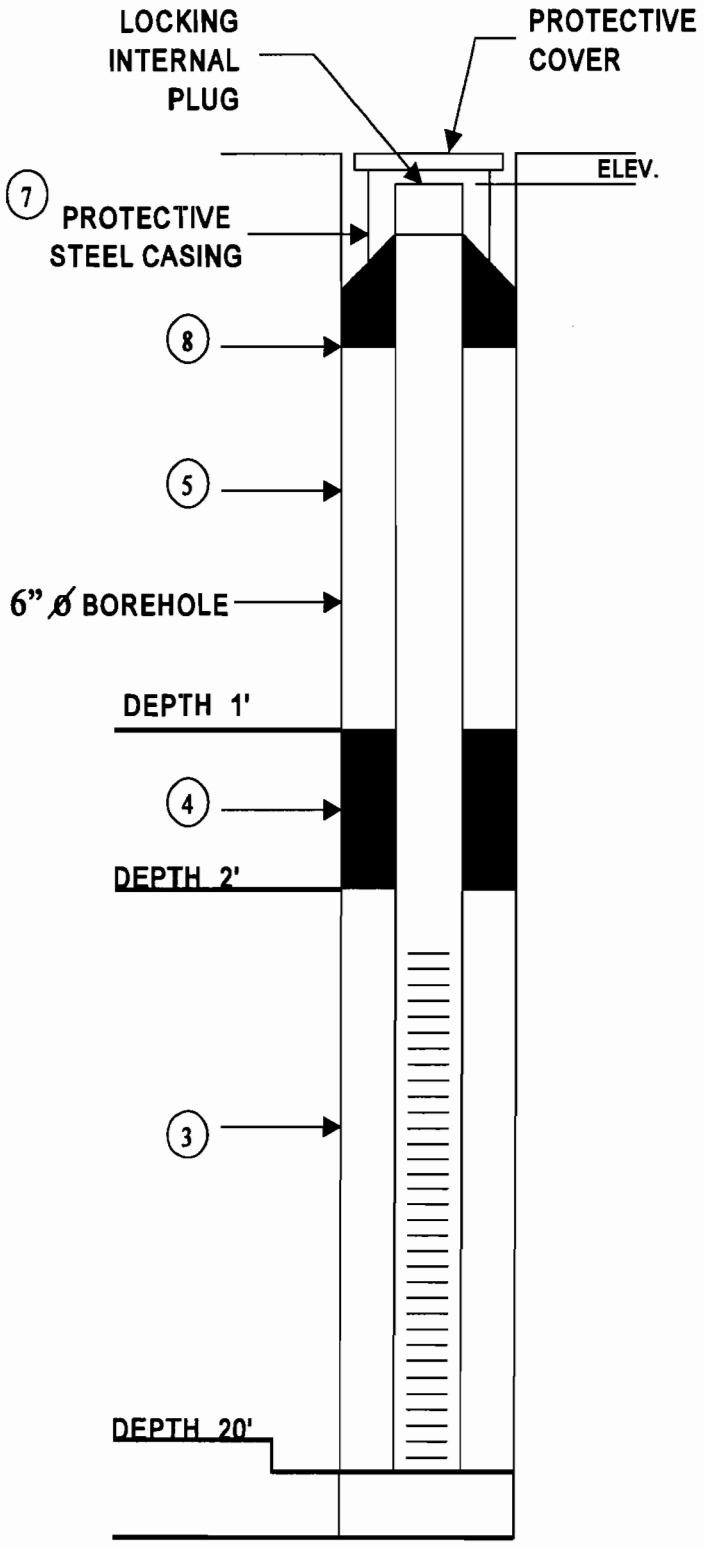
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1550	8.69	Undeveloped
12/15/03	1650	8.71	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/9/03 WELL No.: MW-7

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1555	4.94	Undeveloped
12/15/03	1655	14.21	Developed Poor Recharge

* FROM TOP OF WELL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.01 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/08/03 RECEIVED:12/15/03
TIME COL'D:1200
MATRIX:Soil SAMPLE: B-1 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
Benzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
Toluene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
Ethyl Benzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
m + p Xylene	ug/Kg	< 12		12/17/03	11.904	EPA8021
o Xylene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
Xylene	ug/Kg	< 18		12/17/03	17.857	EPA8021
Isopropylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
n-Propylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
135-Trimethylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
124-Trimethylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
sec-Butylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
p-Isopropyltoluene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
n-Butylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
Naphthalene(v)	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
tert-Butylbenzene	ug/Kg	< 6.0		12/17/03	5.9523	EPA8021
% Solids		84		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 52230 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.01 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/08/03 RECEIVED:12/15/03
TIME COL'D:1200
MATRIX:Soil SAMPLE: B-1 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 360		12/19/03	357.14	EPA8270
Acenaphthene	ug/Kg	< 360		12/19/03	357.14	EPA8270
Fluorene	ug/Kg	< 360		12/19/03	357.14	EPA8270
Phenanthrene	ug/Kg	580		12/19/03	357.14	EPA8270
Anthracene	ug/Kg	< 360		12/19/03	357.14	EPA8270
Fluoranthene	ug/Kg	1200		12/19/03	357.14	EPA8270
Pyrene	ug/Kg	1500		12/19/03	357.14	EPA8270
Benzo(a)anthracene	ug/Kg	620		12/19/03	357.14	EPA8270
Chrysene	ug/Kg	560		12/19/03	357.14	EPA8270
Benzo(b)fluoranthene	ug/Kg	500	*#	12/19/03	357.14	EPA8270
Benzo(k)fluoranthene	ug/Kg	500	*#	12/19/03	357.14	EPA8270
Benzo(a)pyrene	ug/Kg	560	#	12/19/03	357.14	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	< 360	#	12/19/03	357.14	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 360	#	12/19/03	357.14	EPA8270
Benzo(ghi)perylene	ug/Kg	< 360	#	12/19/03	357.14	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 1000 ug/Kg, unable to separate isomers.
#Estimated due to low internal standard, *44%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 52231 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.05 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1700
MATRIX:Soil SAMPLE: B-2 (7-7.5)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 12		12/18/03	12.345	EPA8021
Benzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
Toluene	ug/Kg	< 12		12/18/03	12.345	EPA8021
Ethyl Benzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
m + p Xylene	ug/Kg	< 25		12/18/03	24.691	EPA8021
o Xylene	ug/Kg	< 12		12/18/03	12.345	EPA8021
Xylene	ug/Kg	< 37		12/18/03	37.037	EPA8021
Isopropylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
n-Propylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
135-Trimethylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
124-Trimethylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
sec-Butylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
p-Isopropyltoluene	ug/Kg	< 12		12/18/03	12.345	EPA8021
n-Butylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
Naphthalene(v)	ug/Kg	< 12		12/18/03	12.345	EPA8021
tert-Butylbenzene	ug/Kg	< 12		12/18/03	12.345	EPA8021
% Solids		81		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 52238 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.05 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1700
MATRIX:Soil SAMPLE: B-2 (7-7.5)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1400		12/17/03	370.37	EPA8270
Acenaphthene	ug/Kg	< 370		12/17/03	370.37	EPA8270
Fluorene	ug/Kg	< 370		12/17/03	370.37	EPA8270
Phenanthrene	ug/Kg	2200		12/17/03	370.37	EPA8270
Anthracene	ug/Kg	430		12/17/03	370.37	EPA8270
Fluoranthene	ug/Kg	3500		12/17/03	370.37	EPA8270
Pyrene	ug/Kg	4100		12/17/03	370.37	EPA8270
Benzo(a)anthracene	ug/Kg	2100		12/17/03	370.37	EPA8270
Chrysene	ug/Kg	2000		12/17/03	370.37	EPA8270
Benzo(b)fluoranthene	ug/Kg	1900	#	12/17/03	370.37	EPA8270
Benzo(k)fluoranthene	ug/Kg	1900	#	12/17/03	370.37	EPA8270
Benzo(a)pyrene	ug/Kg	1900		12/17/03	370.37	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	950		12/17/03	370.37	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 370		12/17/03	370.37	EPA8270
Benzo(ghi)perylene	ug/Kg	1000		12/17/03	370.37	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 3800 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 52239 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.04 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1610
MATRIX:Soil SAMPLE: B-3 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 12		12/17/03	11.764	EPA8021
Benzene	ug/Kg	33		12/17/03	11.764	EPA8021
Toluene	ug/Kg	160		12/17/03	11.764	EPA8021
Ethyl Benzene	ug/Kg	650		12/17/03	11.764	EPA8021
m + p Xylene	ug/Kg	400		12/17/03	23.529	EPA8021
o Xylene	ug/Kg	730		12/17/03	11.764	EPA8021
Xylene	ug/Kg	1100		12/17/03	35.294	EPA8021
Isopropylbenzene	ug/Kg	1100		12/17/03	11.764	EPA8021
n-Propylbenzene	ug/Kg	1100		12/17/03	11.764	EPA8021
135-Trimethylbenzene	ug/Kg	280		12/17/03	11.764	EPA8021
124-Trimethylbenzene	ug/Kg	2000		12/18/03	117.64	EPA8021
sec-Butylbenzene	ug/Kg	920		12/17/03	11.764	EPA8021
p-Isopropyltoluene	ug/Kg	1400		12/18/03	117.64	EPA8021
n-Butylbenzene	ug/Kg	1000		12/17/03	11.764	EPA8021
Naphthalene(v)	ug/Kg	600		12/17/03	11.764	EPA8021
tert-Butylbenzene	ug/Kg	190		12/17/03	11.764	EPA8021
% Solids		85		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 52236 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.04 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1610
MATRIX:Soil SAMPLE: B-3 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1500		12/17/03	352.94	EPA8270
Acenaphthene	ug/Kg	1600		12/17/03	352.94	EPA8270
Fluorene	ug/Kg	2500		12/17/03	352.94	EPA8270
Phenanthrene	ug/Kg	13000		12/17/03	352.94	EPA8270
Anthracene	ug/Kg	2900		12/17/03	352.94	EPA8270
Fluoranthene	ug/Kg	10000		12/17/03	352.94	EPA8270
Pyrene	ug/Kg	15000		12/17/03	352.94	EPA8270
Benzo(a)anthracene	ug/Kg	4800		12/17/03	352.94	EPA8270
Chrysene	ug/Kg	5200		12/17/03	352.94	EPA8270
Benzo(b)fluoranthene	ug/Kg	4100	#*	12/17/03	352.94	EPA8270
Benzo(k)fluoranthene	ug/Kg	4100	#*	12/17/03	352.94	EPA8270
Benzo(a)pyrene	ug/Kg	4200	*	12/17/03	352.94	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2000	*	12/17/03	352.94	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	800	*	12/17/03	352.94	EPA8270
Benzo(ghi)perylene	ug/Kg	2100	*	12/17/03	352.94	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 8200 ug/Kg, unable to separate isomers.
*Estimated due to low internal standard, *29%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 52237 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.06 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1715
MATRIX:Soil SAMPLE: B-4 (8-9)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
Benzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
Toluene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
Ethyl Benzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
m + p Xylene	ug/Kg	< 12		12/17/03	12.048	EPA8021
o Xylene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
Xylene	ug/Kg	< 18		12/17/03	18.072	EPA8021
Isopropylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
n-Propylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
135-Trimethylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
124-Trimethylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
sec-Butylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
p-Isopropyltoluene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
n-Butylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
Naphthalene(v)	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
tert-Butylbenzene	ug/Kg	< 6.0		12/17/03	6.0240	EPA8021
% Solids		83		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 52240 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.06 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1715
MATRIX:Soil SAMPLE: B-4 (8-9)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 360		12/19/03	361.44	EPA8270
Acenaphthene	ug/Kg	< 360		12/19/03	361.44	EPA8270
Fluorene	ug/Kg	< 360		12/19/03	361.44	EPA8270
Phenanthrene	ug/Kg	2200		12/19/03	361.44	EPA8270
Anthracene	ug/Kg	630		12/19/03	361.44	EPA8270
Fluoranthene	ug/Kg	4600		12/19/03	361.44	EPA8270
Pyrene	ug/Kg	6600		12/19/03	361.44	EPA8270
Benzo(a)anthracene	ug/Kg	4000		12/19/03	361.44	EPA8270
Chrysene	ug/Kg	3700		12/19/03	361.44	EPA8270
Benzo(b)fluoranthene	ug/Kg	3900	*	12/19/03	361.44	EPA8270
Benzo(k)fluoranthene	ug/Kg	3900	*	12/19/03	361.44	EPA8270
Benzo(a)pyrene	ug/Kg	4000		12/19/03	361.44	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		12/19/03	361.44	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	360		12/19/03	361.44	EPA8270
Benzo(ghi)perylene	ug/Kg	1800		12/19/03	361.44	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 7800 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 52241 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.02 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/08/03 RECEIVED:12/15/03
TIME COL'D:1445
MATRIX:Soil SAMPLE: B-5 (8-9)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
Benzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
Toluene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
Ethyl Benzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
m + p Xylene	ug/Kg	< 13		12/17/03	13.157	EPA8021
o Xylene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
Xylene	ug/Kg	< 20		12/17/03	19.736	EPA8021
Isopropylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
n-Propylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
135-Trimethylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
124-Trimethylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
sec-Butylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
p-Isopropyltoluene	ug/Kg	360		12/17/03	6.5789	EPA8021
n-Butylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
Naphthalene(v)	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
tert-Butylbenzene	ug/Kg	< 6.6		12/17/03	6.5789	EPA8021
% Solids		76		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.02 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/08/03 RECEIVED:12/15/03
TIME COL'D:1445
MATRIX:Soil SAMPLE: B-5 (8-9)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	500		12/17/03	394.73	EPA8270
Acenaphthene	ug/Kg	1300		12/17/03	394.73	EPA8270
Fluorene	ug/Kg	1400		12/17/03	394.73	EPA8270
Phenanthrene	ug/Kg	7500		12/17/03	394.73	EPA8270
Anthracene	ug/Kg	1600		12/17/03	394.73	EPA8270
Fluoranthene	ug/Kg	9100		12/17/03	394.73	EPA8270
Pyrene	ug/Kg	8600		12/17/03	394.73	EPA8270
Benzo(a)anthracene	ug/Kg	3300		12/17/03	394.73	EPA8270
Chrysene	ug/Kg	3300		12/17/03	394.73	EPA8270
Benzo(b)fluoranthene	ug/Kg	2700	#*	12/17/03	394.73	EPA8270
Benzo(k)fluoranthene	ug/Kg	2700	#*	12/17/03	394.73	EPA8270
Benzo(a)pyrene	ug/Kg	3000	*	12/17/03	394.73	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1300	*	12/17/03	394.73	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	450	*	12/17/03	394.73	EPA8270
Benzo(ghi)perylene	ug/Kg	1300	*	12/17/03	394.73	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 5400 ug/Kg, unable to separate isomers.
*Estimated due to low internal standard, *39%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 52233 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.03 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1150
MATRIX:Soil SAMPLE: B-6 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
Benzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
Toluene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
Ethyl Benzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
m + p Xylene	ug/Kg	< 11		12/17/03	11.363	EPA8021
o Xylene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
Xylene	ug/Kg	< 17		12/17/03	17.045	EPA8021
Isopropylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
n-Propylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
135-Trimethylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
sec-Butylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
p-Isopropyltoluene	ug/Kg	17		12/17/03	5.6818	EPA8021
n-Butylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
Naphthalene(v)	ug/Kg	23		12/17/03	5.6818	EPA8021
tert-Butylbenzene	ug/Kg	< 5.7		12/17/03	5.6818	EPA8021
% Solids		88		12/16/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 52234 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.236051.03 06/03/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, Maspeth Avenue, Project #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:12/09/03 RECEIVED:12/15/03
TIME COL'D:1150
MATRIX:Soil SAMPLE: B-6 (9-10)

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	< 340		12/17/03	340.90	EPA8270
Acenaphthene	ug/Kg	< 340		12/17/03	340.90	EPA8270
Fluorene	ug/Kg	< 340		12/17/03	340.90	EPA8270
Phenanthrene	ug/Kg	2200		12/17/03	340.90	EPA8270
Anthracene	ug/Kg	440		12/17/03	340.90	EPA8270
Fluoranthene	ug/Kg	2500		12/17/03	340.90	EPA8270
Pyrene	ug/Kg	2700		12/17/03	340.90	EPA8270
Benzo(a)anthracene	ug/Kg	1000		12/17/03	340.90	EPA8270
Chrysene	ug/Kg	990		12/17/03	340.90	EPA8270
Benzo(b)fluoranthene	ug/Kg	850	#*	12/17/03	340.90	EPA8270
Benzo(k)fluoranthene	ug/Kg	850	#*	12/17/03	340.90	EPA8270
Benzo(a)pyrene	ug/Kg	760	*	12/17/03	340.90	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	< 340	*	12/17/03	340.90	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340	*	12/17/03	340.90	EPA8270
Benzo(ghi)perylene	ug/Kg	360	*	12/17/03	340.90	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 3800 ug/Kg, unable to separate isomers.
*Estimated due to low internal standard, *44%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 52235 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.01 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1420

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	1		01/13/04	1	EPA8021
Benzene	ug/L	< 1		01/13/04	1	EPA8021
Toluene	ug/L	< 1		01/13/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/13/04	1	EPA8021
m + p Xylene	ug/L	< 2		01/13/04	2	EPA8021
o Xylene	ug/L	21		01/13/04	1	EPA8021
Xylene	ug/L	21		01/13/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/13/04	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/13/04	1	EPA8021
135-Trimethylbenzene	ug/L	13		01/13/04	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/13/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/13/04	1	EPA8021
p-Isopropyltoluene	ug/L	1		01/13/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/13/04	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/13/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 702 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.01 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1420

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	97		01/09/04	1	EPA8270
Acenaphthene	ug/L	< 1		01/09/04	1	EPA8270
Fluorene	ug/L	< 1		01/09/04	1	EPA8270
Phenanthrene	ug/L	< 1		01/09/04	1	EPA8270
Anthracene	ug/L	< 1		01/09/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Pyrene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Chrysene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 703 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.02 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1445
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/12/04	1	EPA8021
Benzene	ug/L	10		01/12/04	1	EPA8021
Toluene	ug/L	< 1		01/12/04	1	EPA8021
Ethyl Benzene	ug/L	7		01/12/04	1	EPA8021
m + p Xylene	ug/L	< 2		01/12/04	2	EPA8021
o Xylene	ug/L	< 1		01/12/04	1	EPA8021
Xylene	ug/L	< 3		01/12/04	3	EPA8021
Isopropylbenzene	ug/L	3		01/12/04	1	EPA8021
n-Propylbenzene	ug/L	1		01/12/04	1	EPA8021
135-Trimethylbenzene	ug/L	1		01/12/04	1	EPA8021
124-Trimethylbenzene	ug/L	2		01/12/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/12/04	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/12/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/12/04	1	EPA8021
Naphthalene(v)	ug/L	93		01/12/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/12/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 704 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.02 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1445
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	43		01/09/04	1	EPA8270
Acenaphthene	ug/L	6		01/09/04	1	EPA8270
Fluorene	ug/L	6		01/09/04	1	EPA8270
Phenanthrene	ug/L	12		01/09/04	1	EPA8270
Anthracene	ug/L	4		01/09/04	1	EPA8270
Fluoranthene	ug/L	4		01/09/04	1	EPA8270
Pyrene	ug/L	4		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	1		01/09/04	1	EPA8270
Chrysene	ug/L	1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 705 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.03 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1455
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/10/04	1	EPA8021
Benzene	ug/L	< 1		01/12/04	1	EPA8021
Toluene	ug/L	< 1		01/12/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/12/04	1	EPA8021
m + p Xylene	ug/L	3		01/12/04	2	EPA8021
o Xylene	ug/L	2		01/12/04	1	EPA8021
Xylene	ug/L	5		01/12/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/12/04	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/12/04	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/12/04	1	EPA8021
124-Trimethylbenzene	ug/L	3		01/12/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/12/04	1	EPA8021
p-Isopropyltoluene	ug/L	4		01/12/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/12/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 706 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.03 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1455
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	3		01/09/04	1	EPA8270
Acenaphthene	ug/L	2		01/09/04	1	EPA8270
Fluorene	ug/L	1		01/09/04	1	EPA8270
Phenanthrene	ug/L	2		01/09/04	1	EPA8270
Anthracene	ug/L	< 1		01/09/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Pyrene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Chrysene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 707 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.04 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1505
MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/10/04	1	EPA8021
Benzene	ug/L	< 1		01/10/04	1	EPA8021
Toluene	ug/L	< 1		01/10/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/10/04	1	EPA8021
m + p Xylene	ug/L	< 2		01/10/04	2	EPA8021
o Xylene	ug/L	< 1		01/10/04	1	EPA8021
Xylene	ug/L	< 3		01/10/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/10/04	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/10/04	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/10/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/10/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 708 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.04 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1505

MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/09/04	1	EPA8270
Acenaphthene	ug/L	< 1		01/09/04	1	EPA8270
Fluorene	ug/L	< 1		01/09/04	1	EPA8270
Phenanthrene	ug/L	< 1		01/09/04	1	EPA8270
Anthracene	ug/L	< 1		01/09/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Pyrene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Chrysene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 709 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.05 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1515
MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/10/04	1	EPA8021
Benzene	ug/L	< 1		01/10/04	1	EPA8021
Toluene	ug/L	< 1		01/10/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/10/04	1	EPA8021
m + p Xylene	ug/L	< 2		01/10/04	2	EPA8021
o Xylene	ug/L	< 1		01/10/04	1	EPA8021
Xylene	ug/L	< 3		01/10/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/10/04	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/10/04	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/10/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/10/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 710 NYSDOH ID # 10320 Page 1 of 1

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240106.00 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: FedEx Ground, 300 Maspeth Avenue
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/09/04 RECEIVED:01/09/04

MATRIX:Water SAMPLE: MW-5

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/12/04	1	EPA8270
Acenaphthene	ug/L	< 1		01/12/04	1	EPA8270
Fluorene	ug/L	< 1		01/12/04	1	EPA8270
Phenanthrene	ug/L	< 1		01/12/04	1	EPA8270
Anthracene	ug/L	< 1		01/12/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/12/04	1	EPA8270
Pyrene	ug/L	< 1		01/12/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/12/04	1	EPA8270
Chrysene	ug/L	< 1		01/12/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/12/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/12/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/12/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/12/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/12/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/12/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 898 NYSDOH ID # 10320 Page 1 of 1

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.06 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1525

MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		01/10/04	1	EPA8021
Benzene	ug/L	< 1		01/10/04	1	EPA8021
Toluene	ug/L	< 1		01/10/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		01/10/04	1	EPA8021
m + p Xylene	ug/L	< 2		01/10/04	2	EPA8021
o Xylene	ug/L	< 1		01/10/04	1	EPA8021
Xylene	ug/L	< 3		01/10/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/10/04	1	EPA8021
n-Propylbenzene	ug/L	< 1		01/10/04	1	EPA8021
135-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
124-Trimethylbenzene	ug/L	< 1		01/10/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
p-Isopropyltoluene	ug/L	< 1		01/10/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
Naphthalene(v)	ug/L	< 1		01/10/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 711 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.06 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1525

MATRIX:Water SAMPLE: MW-6

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	< 1		01/09/04	1	EPA8270
Acenaphthene	ug/L	< 1		01/09/04	1	EPA8270
Fluorene	ug/L	< 1		01/09/04	1	EPA8270
Phenanthrene	ug/L	< 1		01/09/04	1	EPA8270
Anthracene	ug/L	< 1		01/09/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Pyrene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Chrysene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 712 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.07 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1535
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	2		01/10/04	1	EPA8021
Benzene	ug/L	20		01/10/04	1	EPA8021
Toluene	ug/L	2		01/10/04	1	EPA8021
Ethyl Benzene	ug/L	7		01/10/04	1	EPA8021
m + p Xylene	ug/L	23		01/10/04	2	EPA8021
o Xylene	ug/L	12		01/10/04	1	EPA8021
Xylene	ug/L	35		01/10/04	3	EPA8021
Isopropylbenzene	ug/L	< 1		01/10/04	1	EPA8021
n-Propylbenzene	ug/L	1		01/10/04	1	EPA8021
135-Trimethylbenzene	ug/L	5		01/10/04	1	EPA8021
124-Trimethylbenzene	ug/L	12		01/10/04	1	EPA8021
sec-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
p-Isopropyltoluene	ug/L	2		01/10/04	1	EPA8021
n-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021
Naphthalene(v)	ug/L	52		01/10/04	1	EPA8021
tert-Butylbenzene	ug/L	< 1		01/10/04	1	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 713 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.240081.07 01/15/04

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Manfred Bohms PO#:

SOURCE OF SAMPLE: Fedex Ground, Project#39936.003
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:01/06/04 RECEIVED:01/08/04
TIME COL'D:1535
MATRIX:Water SAMPLE: MW-7

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/L	28		01/09/04	1	EPA8270
Acenaphthene	ug/L	3		01/09/04	1	EPA8270
Fluorene	ug/L	2		01/09/04	1	EPA8270
Phenanthrene	ug/L	4		01/09/04	1	EPA8270
Anthracene	ug/L	< 1		01/09/04	1	EPA8270
Fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Pyrene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Chrysene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(b)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(k)fluoranthene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(a)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Indeno(1,2,3-cd)pyrene	ug/L	< 1		01/09/04	1	EPA8270
Dibenzo(a,h)anthracene	ug/L	< 1		01/09/04	1	EPA8270
Benzo(ghi)perylene	ug/L	< 1		01/09/04	1	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 714 NYSDOH ID # 10320

Gannett Fleming

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
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August 28 2002
File # 39936

Jeff Vought
New York State Department
of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101-5407

up by garage - product

Re: FedEx Ground
300 Maspeth Avenue
Brooklyn, New York 11211
NYSDEC Spill #0202804 and #0204002

Dear Mr. Vought:

This letter supplements our August 13, 2002 correspondence discussing the initial site assessment and projected remediation activities for petroleum impacts observed (New York State Department of Environmental Conservation (NYSDEC) Spill #0202804 and #0204002 at the FedEx Ground facility located at 300 Maspeth Avenue, Brooklyn, New York. A site location map is provided as Figure 1, attached. This letter provides a summary of the additional investigation activities and sample analysis that have taken place since the initial sampling and assessment by Testwell in July 2002.

Spill 0202804: UST Area

From June 17 to July 3, 2002, Brookside Environmental Services (Brookside) removed 20 USTs and approximately 900 tons of petroleum-impacted soil surrounding the USTs under the direction of Testwell. From July 26 to July 30, 2002, the UST excavation was backfilled by Brookside using structural fill (DOT Item 4). Gannett Fleming observed backfilling the excavation. Prior to backfilling, additional soil was removed from the northern wall and from the southwest corner of the excavation to assess the extent of volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs) detected in the end point samples collected by Testwell (see Table 1). The remaining vent lines were excavated and removed from the neighboring property on July 30, 2002 by Brookside under the direction of Gannett Fleming. Figure 2 provides a site plan of the former UST excavation area. Photos of the UST and vent lines excavations are also provided in Attachment A.

On July 2, 2002, Testwell collected a groundwater sample from the bottom of the UST excavation. Analysis of the groundwater detected a number of VOCs above NYSDEC guidance values. However, turbidity of the sample may adversely affect the data. Therefore, a well point was also installed in the southeastern portion of the former UST

excavation to further assess groundwater quality near the former USTs. The well point will be incorporated into a site-wide groundwater investigation (see Recommendations).

Following the removal of the additional sidewall material and the remaining vent lines, end point soil samples were collected by Gannett Fleming. End point soil samples were comprised of one composite soil sample collected from three locations along the northern wall and one grab soil sample from the southwest corner of the UST excavation, and two composite soil samples from the bottom and sidewall following the removal of the vent lines along the eastern sidewall of the UST excavation (see Figure 2). The soil samples were placed in an ice-filled insulated cooler and delivered to Ecotest Laboratories, Inc. (NYSDOH Certification ID#10320). Chain-of Custody protocols were followed for the handling and delivery of the soil samples.

The soil samples were submitted for analysis of VOCs and PAHs listed in Table 2 of the NYSDEC Spill Technology and Remediation Series (STARS) Memorandum #1. The data was compared to the Recommended Soil Cleanup Objectives (RSCOs) provided in the NYSDEC Technical Administrative Guidance Memorandum #4046 dated December 20, 2000. The analytical results are provided in Table 2.

The VOC analysis detected benzene at 120 microgram per kilogram (µg/kg), 1,2,4-trimethylbenzene at 11,000 µg/kg, and 1,3,5-trimethylbenzene at 5,900 µg/kg in the north wall composite (N Wall Comp) sample at concentration above their respective NYSDEC RSCOs. The sidewall and bottom samples where the vent piping was removed (Sample Vent X Sidewall and Vent X Bottom) each detected benzene only at 110 µg/kg, above the RSCO of 60 µg/kg. No VOCs were detected above the NYSDEC RSCOs in the sample from the southwestern corner (Sample SE-RS) of the former UST excavation.

Analysis of PAHs detected benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene at concentrations above the NYSDEC RSCOs in the four soil samples. No other PAHs were detected above the RSCOs.

Spill #0204002: Stained Soil in Southwestern Portion of Site

As part of the current construction activities, subsurface obstructions (large pieces of concrete) were removed to allow underpinning for a new foundation to be performed. During the removal of obstructions on July 17, 2002, black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse. Two soil samples, West Side of Bldg N and West Side of Bldg S, were collected by Testwell from the stained area. These samples were submitted to Long Island Analytical Laboratories, Inc. (NYSDOH Certification ID #0220326) for analysis of the Target Compound List (TCL) VOCs and semi-volatile organic compounds (SVOCs). A site plan showing the test pit location is provided on Figure 3.

Continued . . .

Gannett Fleming conducted a review of historical Sanborn maps identified a bulk petroleum storage and distribution terminal occupied this portion of the site in 1951. However, no additional information is currently available as to the type of petroleum products stored at the former facility.

On July 31, 2002, subsequent foundation work by Gilbane Construction excavated a pit approximately 135 feet north of the stained area identified on July 17th. No staining or petroleum odors were reported in this excavation (see photos in Attachment A); however, no soil samples were collected.

On August 2, 2002, Gannett Fleming directed the excavation of six additional test pits (identified as TP-1 through TP-6) surrounding the location of stained soil observed on July 17th. Test pits were excavated at approximate 30-foot intervals until PID readings from the unsaturated soil remained at background levels. The excavated material was screened using a photo-ionization detector (PID).

The test pits were excavated to approximately nine feet below grade, approximately one foot into the water table. The water table was inspected for indications of free-floating product. Other than a sheen on the groundwater, no free-floating product was observed in TP-1 through TP-6. Groundwater samples were not collected as part of this investigation.

Three grab samples were collected from the test pits exhibiting background PID readings; TP-3, TP-5, and TP-6. The samples were handled in the same manner as the UST excavation samples discussed above and submitted to Ecotest Laboratories, Inc. for analysis of STARS Memo #1 Table 2 parameters. The locations of the test pits are provided on Figure 3. Test pit logs including PID readings collected from the test pits are provided in Attachment B.

The analytical data from both Testwell and Gannett Fleming samples did not detect VOCs above the NYSDEC RSCOs. Analysis of PAHs detected benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene at concentrations above the NYSDEC RSCOs in the five soil samples. Indeno(1,2,3-c,d)pyrene was detected at a concentration above the RSCO in one sample. No other SVOCs were detected above the RSCOs. Laboratory data is provided on Table 3. Laboratory data sheets are provided as Attachment C.

Conclusions

- Current end point sample data indicates concentrations of VOCs in the western and southern walls of the UST excavation are below the NYSDEC RSCOs.

Continued . . .

- Concentrations of benzene in the eastern side wall and benzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene in the northern side wall on the UST excavation remain above the RSCOs.
- Concentrations of SVOCs detected above the RSCOs were limited to the PAHs including benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene, site wide.
- PAHs were detected above the RSCOs in 9 of 12 samples surrounding the UST excavation.
- No concentrations of VOCs were detected above the RSCOs in soil samples collected from the southwestern portion of the site.
- PAHs were detected above the RSCOs in 4 of 5 samples collected in the southwestern portion of the site.

The occurrence of PAHs in the soils at the FedEx Ground facility appear to be ubiquitous within the urban fill material (wood, brick, glass, concrete, soil, etc.) observed in the excavations and presumably placed on the site when first developed in the 1950's. Concentrations of PAHs in soil samples were consistent through out each impacted area in both the Testwell and Gannett Fleming data. Soil samples collected from areas away from the observed impacted areas also detected PAHs. The distribution of PAHs and consistency in their concentrations is indicative of the general fill quality found at the site.

Recommendations

The following recommendations are provided for both the former UST area and the southwestern portion of the site.

Former UST Area

- No further actions are recommended for soils south and west of the former UST area. VOCs were not detected above the NYSDEC RSCOs, and concentrations of PAHs appear characteristic of the urban filled placed at the site (see below).
- Additional delineation of VOC impacts is recommended north and east of the former UST area. The VOC delineation will be conducted using a Geoprobe unit to collect 12 samples within a 25-foot grid extending from the former UST excavation (Figure 4). Soil samples will be screened vertically in two-foot intervals using a PID. Selected samples will be submitted for laboratory analysis of VOCs based on the PID readings. Because of obstructions, this work will be conducted after the current construction activities are complete (expected by October 2002).
- A groundwater investigation will be conducted over the entire site to assess local groundwater quality and to determine possible impacts from the petroleum releases on site and offsite. The groundwater investigation will also provide hydrogeologic

Continued . . .

- characterization of the site. Six shallow monitoring wells; two wells located hydraulically upgradient of the UST area and the southwestern portion of the site, respectively, and four wells downgradient of the impacted areas. The wells will be
- installed in compliance with NYSDEC guidance including 15 feet of well screen straddling the top of the water table to allow detection of free-floating product, if any. As with the soil investigation described above, this work is expected to be conducted in October 2002. Proposed monitoring well locations are provided on Figure 5.
- An investigation of general site-wide PAH concentrations will be conducted to confirm the assertion that these compounds are ubiquitous to the urban fill at the site. Soil samples will be collected during the installation of monitoring wells outlined above. Soil samples will be collected and submitted for laboratory analysis as described for the delineation of VOC impacts provided above.

The investigation activities will be provided to the NYSDEC in a supplemental site investigation report. A remedial action plan will be provided with the supplemental site investigation report, if appropriate.

Please feel free to call with any questions.

Very Truly Yours,

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

GREGORY A. ERNST
Senior Scientist

STEPHEN R. HIX
Director of Environmental Services

Enc
cc: Jerry Swart
Robert Dengler
Mark Lucken

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Table 1.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - UST EXCAVATION
FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	ESE	ENE	NNE	NNW	WNW	WSW	SSW	SSE
SAMPLE DATE:		7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02	7/2/02
VOCs (ppb) - EPA Method 8021									
M&P-Xylenes[1]	1200	-	-	-	-	-	-	-	3,677
O-Xylene[1]	1200	-	-	-	-	-	6,470	-	17,852
1,3,5-Trimethylbenzene	3300	-	-	-	-	-	7,750	-	15,107
PAHs (ppb) - EPA Method 8270									
2,4-Dinitrophenol	200	2,281	-	-	-	-	-	-	380
Benzo(a)anthracene	224 or MDL	630	1,733	1,208	1,506	539	381	-	1,947
Chrysene	400	948	2,009	1,381	1.685	574	-	-	1,989
Benzo(b)fluoranthene	61 or MDL	598	2,027	1,365	1,587	513	245	-	1,384
Benzo(k)fluoranthene	610 or MDL	-	718	-	727	-	-	-	660
Benzo(a)pyrene	61 or MDL	461	1,575	1,116	1,216	437	270	-	1,140
Ideno(1,2,3-cd)pyrene	3200	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	14.3 or MDL	-	132	-	-	-	-	-	46

NOTES:

Samples collected by Testwell Laboratories, Inc. and analyzed by Long Island Analytical Laboratories Inc.

-	Analytical data did not exceed TAGM 4046 objectives
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
MDL	Method Detection Limit

TABLE 2.

SOIL SAMPLE ANALYTICAL RESULTS
UST AREA OF FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	SE-RS	N Wall Comp	Vent X Side Wall	Vent X Bottom
SAMPLE DATE:		7/26/02	7/26/02	7/30/02	7/30/02
VOCs (ppb) - EPA Method 8021					
Benzene	60 or MDL	-	**120**	**110**	**110**
Toluene	1,500	-	30	-	-
Ethylbenzene	5,500	-	310	-	230
M&P-Xylenes[1]	1,200	-	1,100	220	600
O-Xylene[1]	1,200	29	190	-	140
Isopropylbenzene	2,300	-	92	430	260
n-propylbenzene	3,700	-	180	1,300	860
1,3,5-Trimethylbenzene	3,300	350	**5,900**	-	830
1,2,4-Trimethylbenzene	10,000	-	**11,000**	170	1,700
sec-Butylbenzene	10,000	-	80	850	410
p-Isopropyltoluene	10,000	20	240	110	200
n-Butylbenzene	10,000	-	-	1,300	-
tert-Butylbenzene	--	10	13	-	-
Methyl tert-butyl ether	120	-	-	-	-
PAHs (ppb) - EPA Method 8270					
Naphthalene	13,000	460	370	520	450
Acenaphthene	50,000	-	-	-	520
Fluorene	50,000	-	-	-	520
Phenanthrene	50,000	1,300	860	2,000	5,900
Anthracene	50,000	540	340	520	1,100
Fluoranthene	50,000	2,800	2,000	2,900	5,400
Pyrene	50,000	2,800	2,000	2,600	6,200
Benzo(a)anthracene	224 or MDL	**1,400**	**940**	**1,200**	**2,500**
Chrysene	400	**1,300**	**910**	**1,300**	**2,500**
Benzo(b)fluoranthene	61 or MDL	**1,500**	**940**	**960**	**2,000**
Benzo(k)fluoranthene	610 or MDL	**1,500**	**940**	**960**	**2,000**
Benzo(a)pyrene	61 or MDL	**1,500**	**1,000**	**1,100**	**2,400**
Ideno(1,2,3-cd)pyrene	3,200	410	330	600	780
Dibenzo(a,h)anthracene	14.3 or MDL	-	-	-	-
Benzo(ghi)perylene	50,000	400	330	630	780

NOTES:

Samples analyzed by Ecotest Laboratories Inc. of North Babylon, NY

-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
--	No standard established
MDL	Method Detection Limit

TABLE 3.

SOIL SAMPLE ANALYTICAL RESULTS
SOUTHWESTERN PORTION OF FEDEX GROUND FACILITY
300 MASPETH AVENUE, BROOKLYN, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	*West Side of Bldg. N	*West Side of Bldg. S	SWTP-3	SWTP-5	SWTP-6
SAMPLE DATE:		7/17/02	7/17/02	8/2/02	8/2/02	8/2/02
VOCs (ppb) - EPA Method 8021						
Benzene	60 or MDL	-	-	-	4	-
Toluene	1,500	-	-	-	-	-
Ethylbenzene	5,500	-	-	-	-	-
M&P-Xylenes[1]	1,200	-	-	-	-	-
O-Xylene[1]	1,200	-	-	-	-	-
Isopropylbenzene	2,300	-	-	-	6	-
n-propylbenzene	3,700	-	6	-	4	-
1,3,5-Trimethylbenzene	3,300	-	5	-	-	-
1,2,4-Trimethylbenzene	10,000	-	23	-	5	2
sec-Butylbenzene	10,000	-	6	-	8	-
p-Isopropyltoluene	10,000	8	-	-	4	-
n-Butylbenzene	10,000	5	8	-	-	-
tert-Butylbenzene	--	-	-	-	5	-
Methyl tert-butyl ether	120	-	-	-	-	-
PAHs (ppb) - EPA Method 8270						
Naphthalene	13,000	942	1,914	1,400	1,700	1,500
Acenaphthene	50,000	1,885	3,083	670	1,200	710
Fluorene	50,000	2,399	4,496	1,600	1,400	780
Phenanthrene	50,000	11,895	23,383	6,300	8,600	6,700
Anthracene	50,000	3,309	6,100	1,700	2,200	1,800
Fluoranthene	50,000	14,105	24,831	7,100	11,000	8,000
Pyrene	50,000	15,036	23,487	6,400	11,000	8,300
Benzo(a)anthracene	224 or MDL	**6,124**	**9,894**	**3,400**	**6,300**	**4,000**
Chrysene	400	**7,200**	**11,004**	**3,400**	**6,300**	**4,000**
Benzo(b)fluoranthene	61 or MDL	**6,333**	**9,353**	**2,800**	**5,500**	**3,300**
Benzo(k)fluoranthene	610 or MDL	**2,570**	**4,417**	**2,800**	**5,500**	**3,300**
Benzo(a)pyrene	61 or MDL	**5,307**	**7,601**	**3,000**	**5,800**	**3,700**
Ideno(1,2,3-cd)pyrene	3,200	2,761	**4,452**	1,200	2,500	1,700
Dibenzo(a,h)anthracene	14.3 or MDL	**808**	**1,166**	**510**	**1,300**	**780**
Benzo(ghi)perylene	50,000	2,373	3,468	1,100	2,400	1,700

NOTES:

Samples analyzed by Ecotest Laboratories Inc. of North Babylon, NY

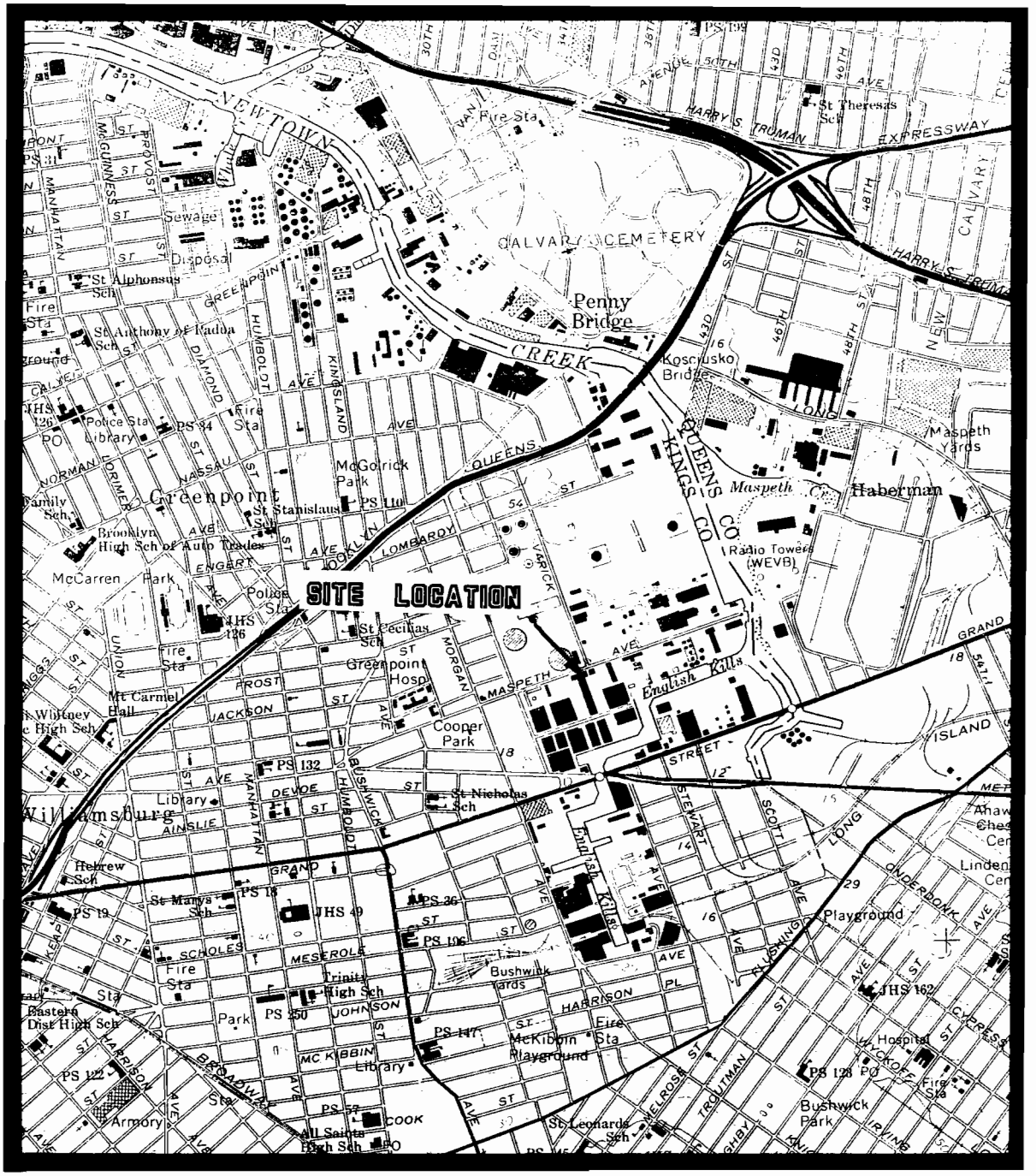
*	Samples analyzed by Long Island Analytical Laboratories Inc. of Holbrook, NY
-	Compound not detected above analytical method detection limit.
VOCs	Volatile organic compounds
PAHs	Polynuclear aromatic hydrocarbons
ppb	Parts per billion (µg/kg)
--	No standard established
MDL	Method Detection Limit

Gannett Fleming

FIGURE 1

300 MASPETH AVENUE

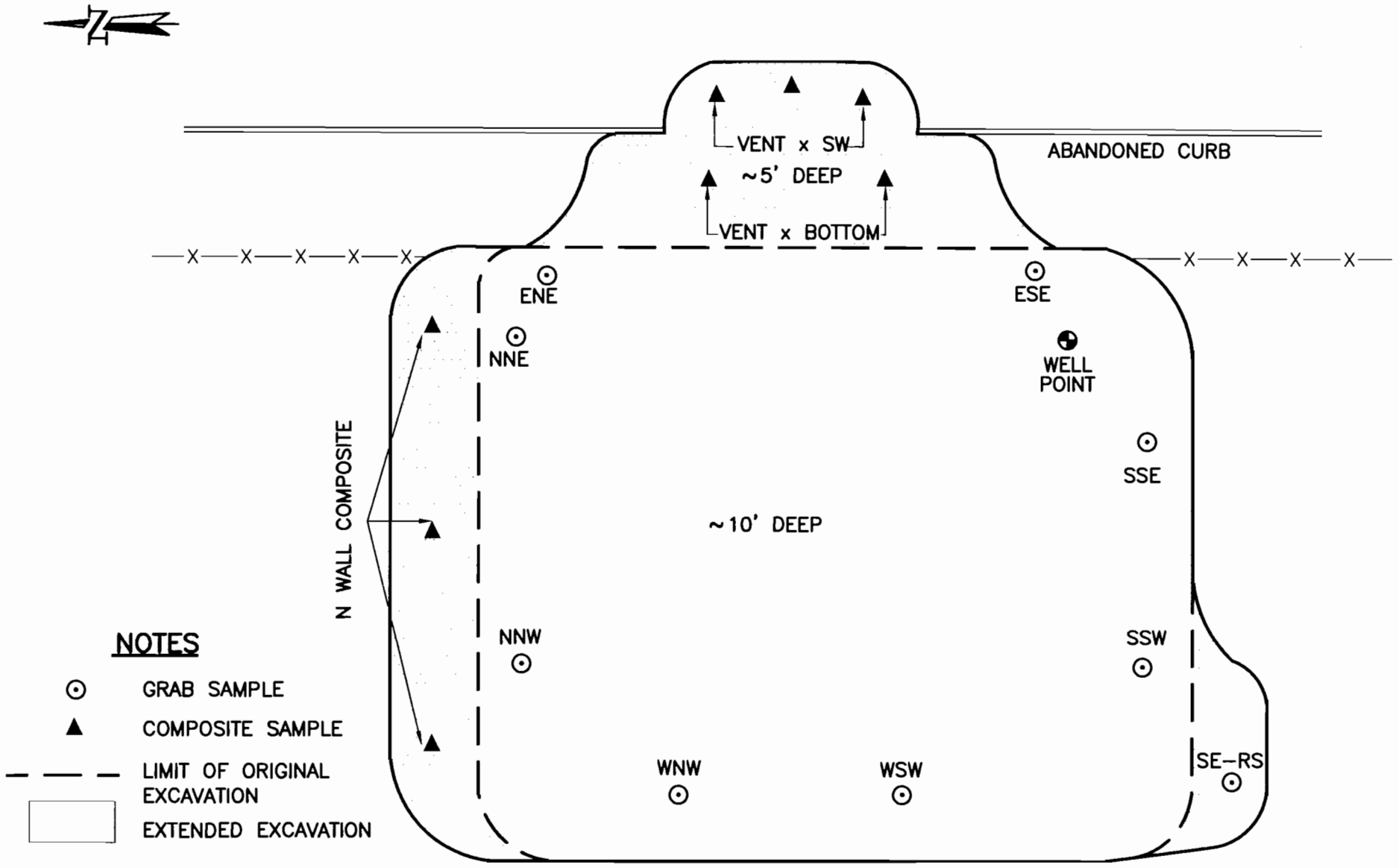
BROOKLYN, NEW YORK



SCALE 1"=2000'

U.S.G.S.7.5 MINUTE QUADRANGLE
BROOKLYN, NEW YORK

LOCATION MAP



UST EXCAVATION SITE PLAN

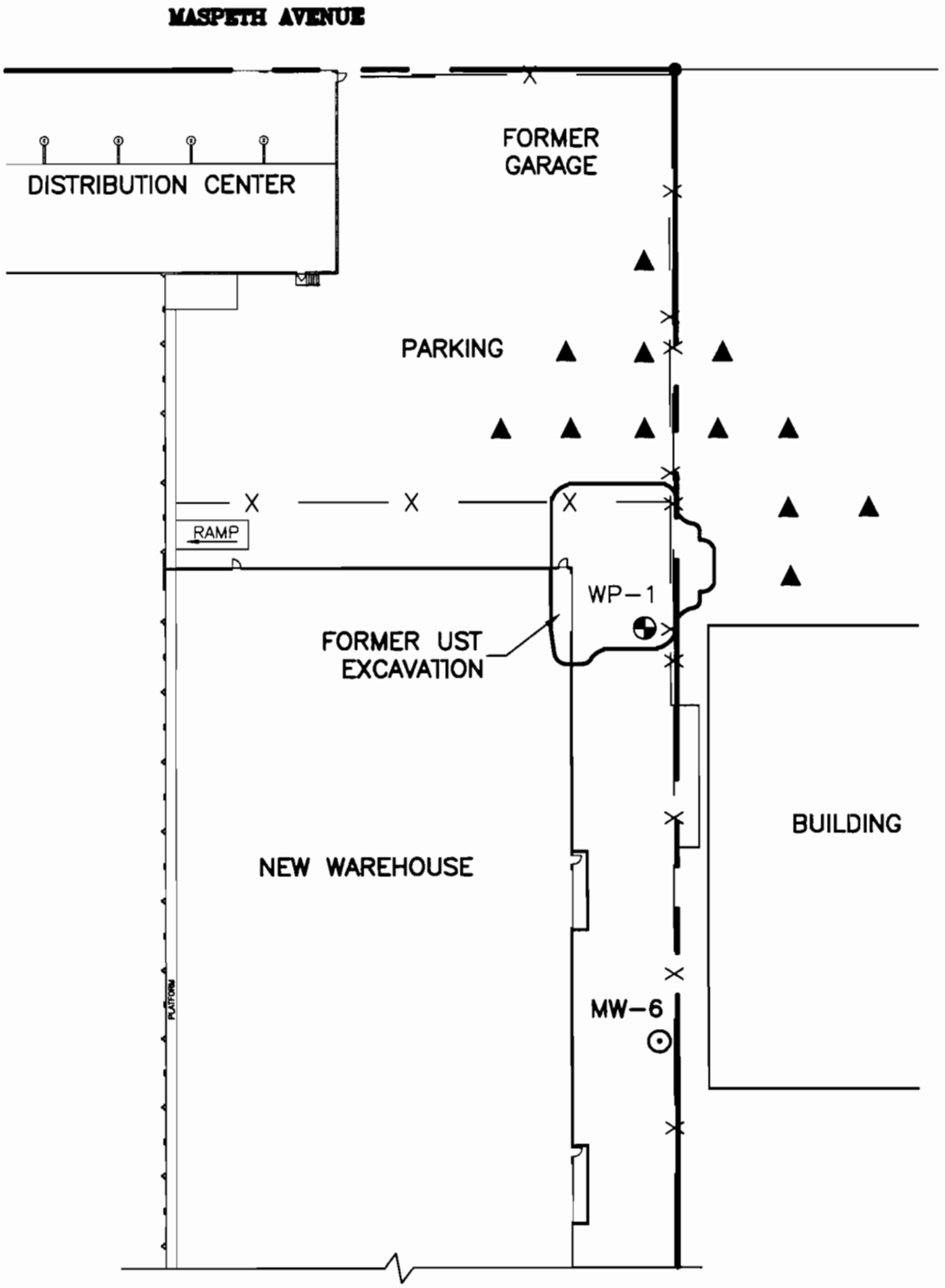
FEDEX GROUND

300 MASPETH AVE., BROOKLYN, NEW YORK

39936B
081202

Gannett Fleming

FIGURE 2



LEGEND

▲ BORING LOCATION

WP-1 ⊕ WELL POINT

0 60

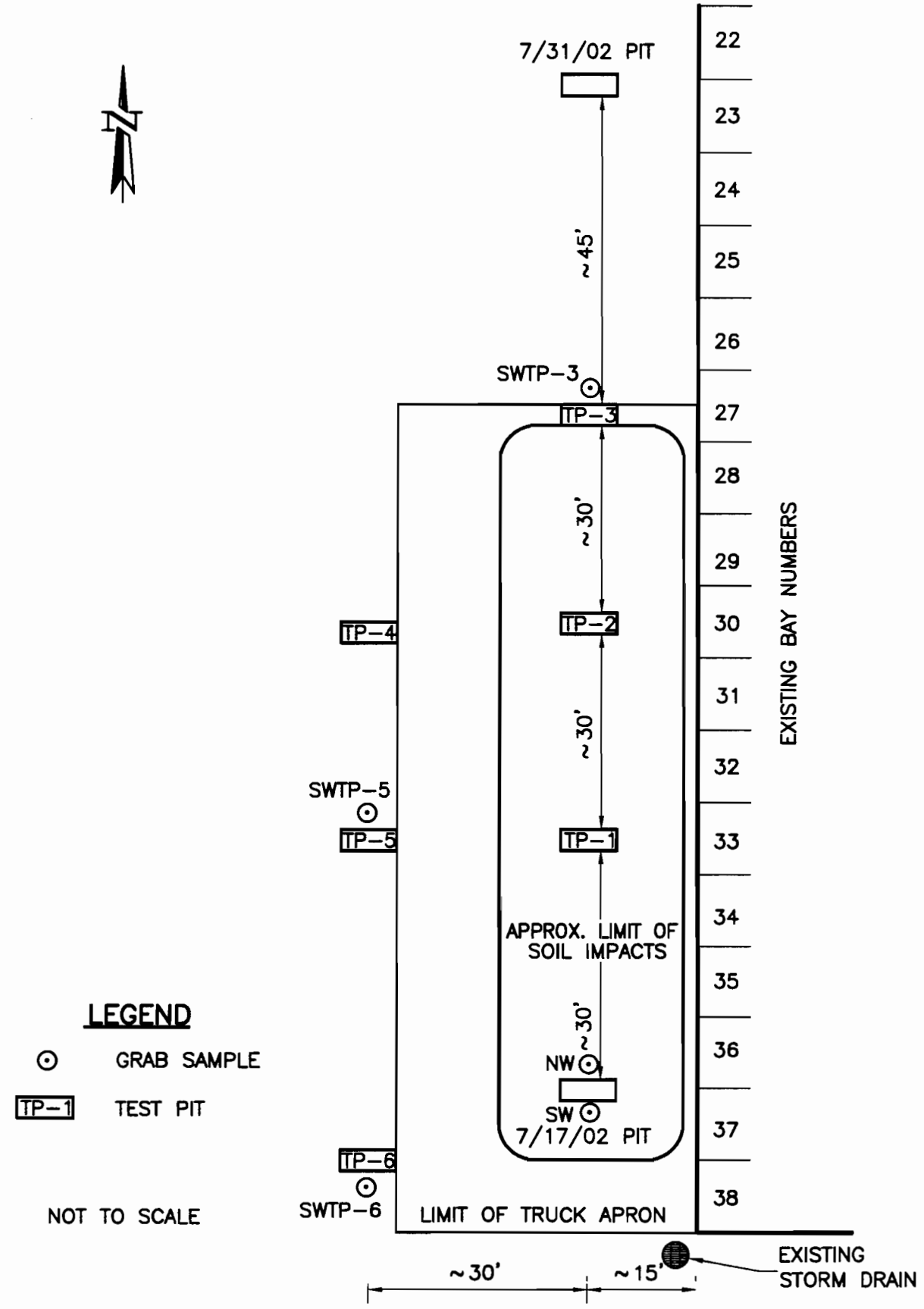
Scale In Feet

PROPOSED SOIL BORING LOCATIONS

FEDEX GROUND

300 MASPETH AVE, BROOKLYN, NEW YORK

SN39936E
082802

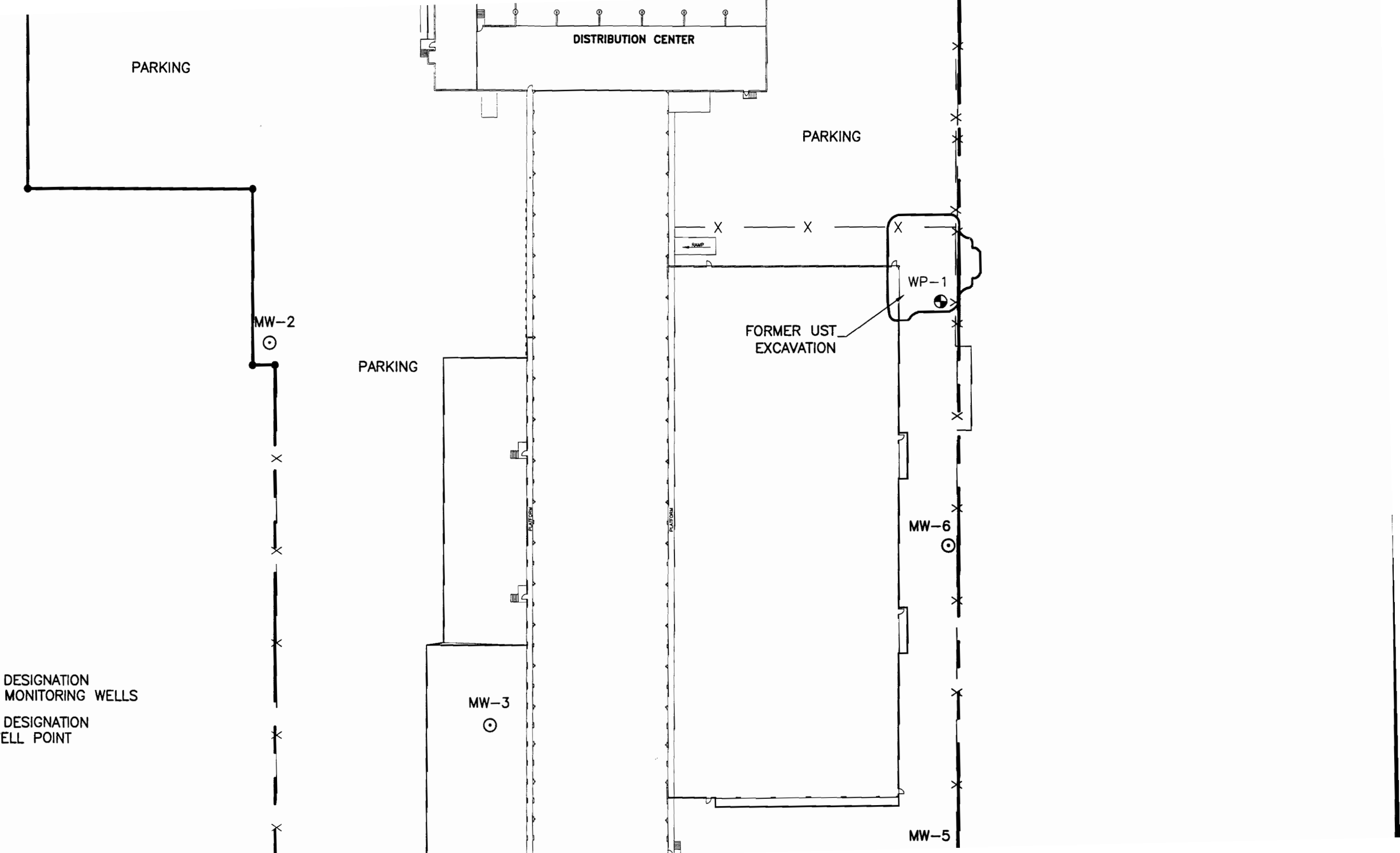


SCHEMATIC OF TEST PIT EXCAVATIONS

FEDEX GROUND

SOUTHWEST PORTION OF MASPETH AVE, BROOKLYN, NEW YORK

SN39936C
082702


PARKING
DISTRIBUTION CENTER
PARKING
RAMP
WP-1
FORMER UST
EXCAVATION
MW-2
PARKING
PLATFORM
PLATFORM
MW-6
MW-3
MW-5
DESIGNATION
MONITORING WELLS
DESIGNATION
ELL POINT



Southwest Corner of UST Excavation



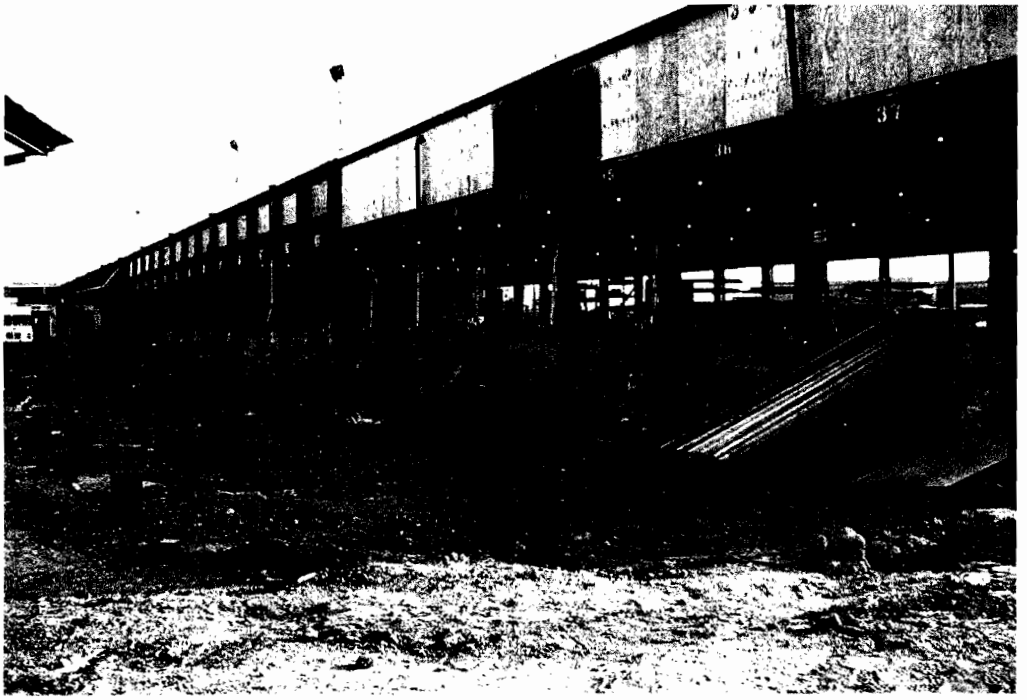
Northern Wall of UST Excavation



Vent Piping Area Excavation



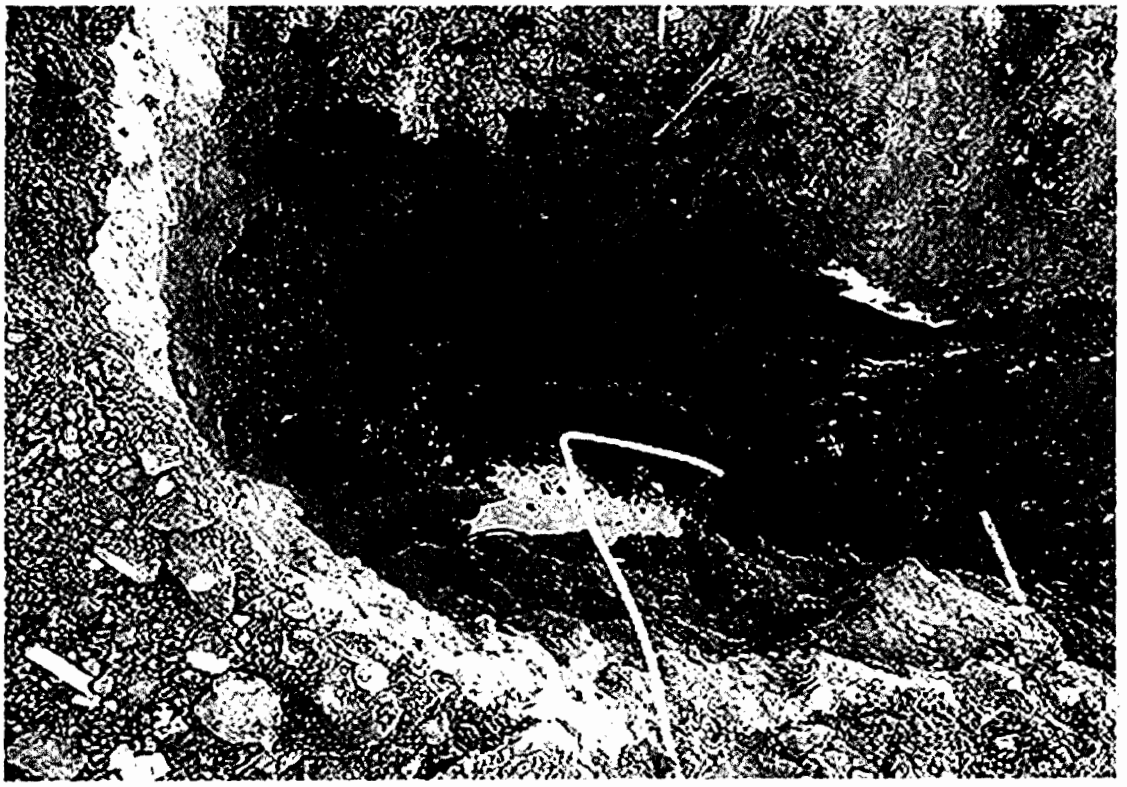
UST Excavation Backfill (well point in back left covered by traffic cone)



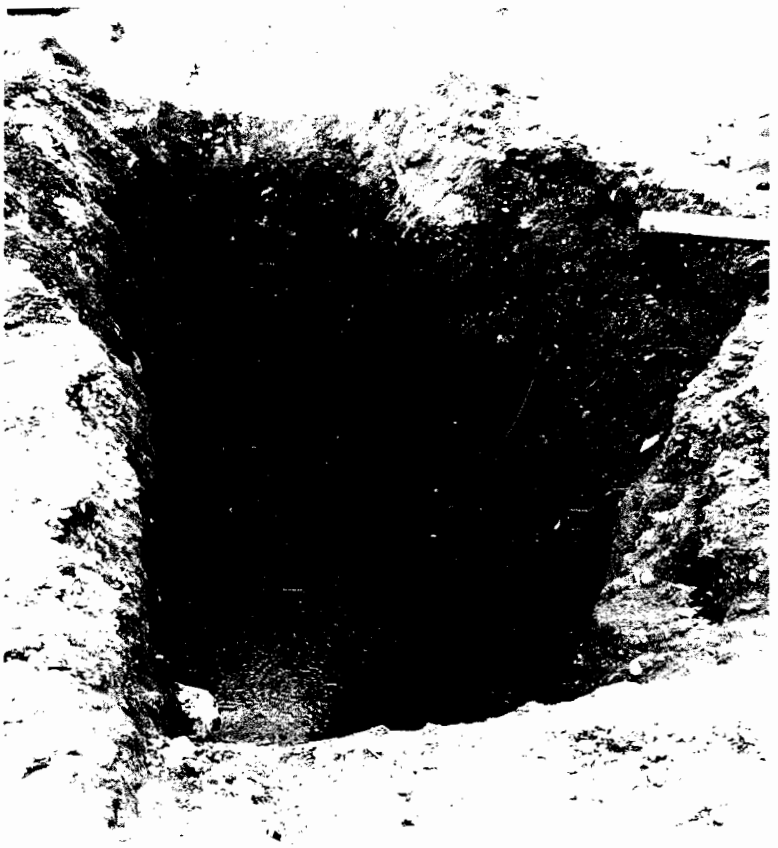
Area of Stained Soil in Southwestern Portion of the Site



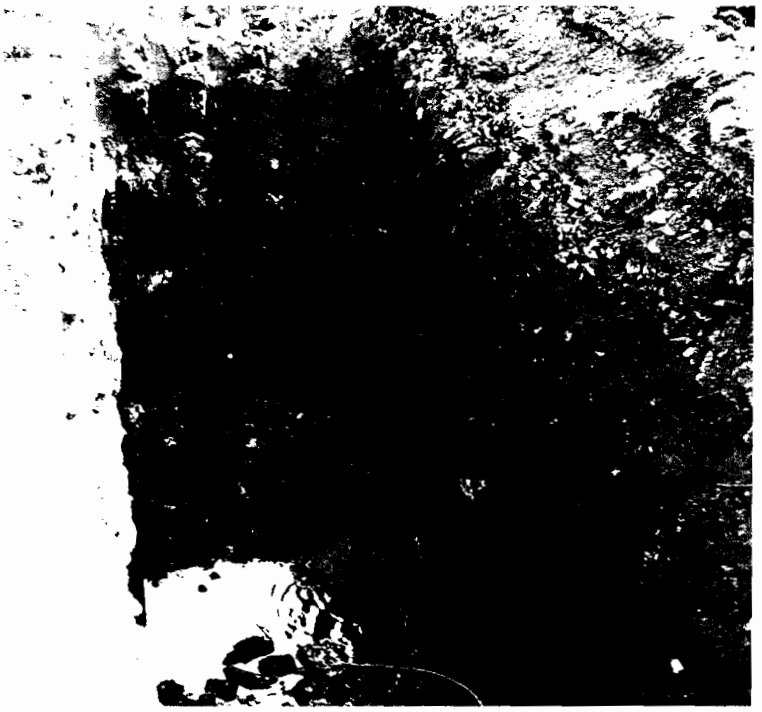
Lithology of Gilbane Excavation on July 31, 2002



Lithology in Test Pit 1



Lithology in Test Pit 2



Lithology of Test Pit 3



Lithology in Test Pit 4



Lithology in Test Pit 5



Lithology in Test Pit 6

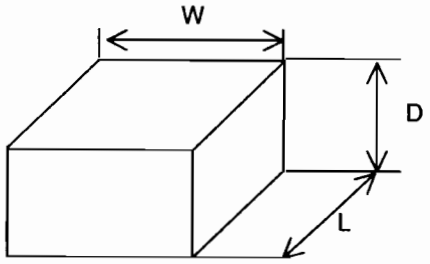
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-1
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 7.0 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood,											
5	concrete, etc.											
		H2O										
		at 8'			8'	-	-	-				Sheen on water table
	End											
10												
15												
20												

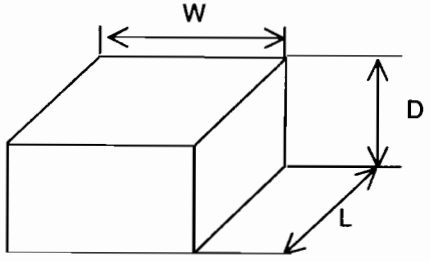
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-2
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 35 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5												
		H2O										Heavy sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

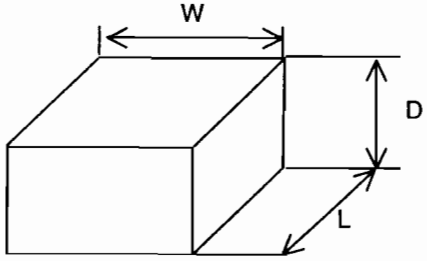
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-3
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~0.5 ppm	Sample collected at 5 feet deep.
	1-2' Asphalt with sub-base											
	>2' Black to dark brown, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-3		
5												
		H2O										Sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

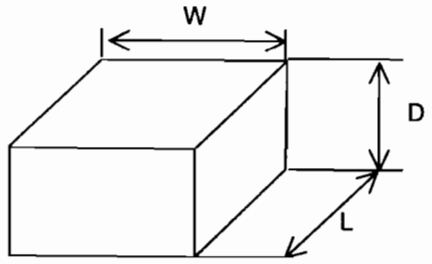
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-4
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	No sample collected.
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5		H2O										
		at 8'			8'	-	-	-			30 ppm	Sheen on water table
	End											
10												
15												
20												

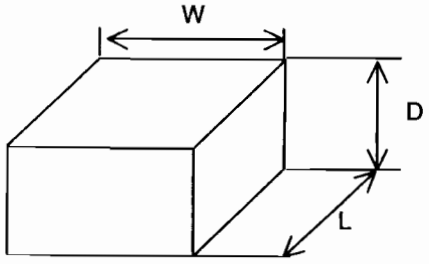
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION:	8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.: TP-5
CLIENT:	FedEx Ground		PROJECT NO.: 39936.000
PROJECT NAME:	300 Maspeth Ave., Bkln, NY		PREPARED BY: Gregory Ernst
CONTRACTOR:	Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-5		
5											▼	
		H2O										
		at 8'			8'	-	-	-			~ 3 ppm	Sheen on water table
	End											
10												
15												
20												

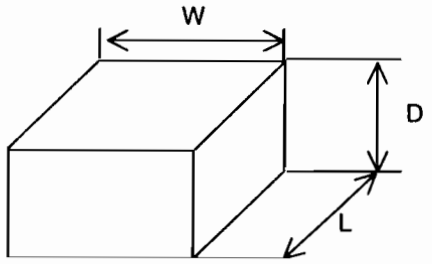
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-6
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	1.5 - 2.5' Brown coarse sand and gravel											
	>2.5' Black, organic urban fill of											
	fine sand & silt, rock, brick, wood,											
	concrete, etc.								Soil	SW TP-6		
5												
		H2O										
		at 8'			8'	-	-	-			~ 15 ppm	Sheen on water table
	End											
10												
15												
20												

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Toluene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Ethyl Benzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
m + p Xylene	ug/Kg	< 11		08/03/02	10.869	EPA8021
o Xylene	ug/Kg	29		08/03/02	5.4347	EPA8021
Xylene	ug/Kg	36		08/03/02	16.304	EPA8021
Isopropylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
n-Propylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
135-Trimethylbenzene	ug/Kg	350		08/03/02	5.4347	EPA8021
124-Trimethylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
sec-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
p-Isopropyltoluene	ug/Kg	20		08/03/02	5.4347	EPA8021
n-Butylbenzene	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
Naphthalene(v)	ug/Kg	< 5.4		08/03/02	5.4347	EPA8021
tert-Butylbenzene	ug/Kg	9.8		08/03/02	5.4347	EPA8021
% Solids		92		07/29/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 26609 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: SE-RS

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	460		07/30/02	326.08	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Phenanthrene	ug/Kg	1300		07/30/02	326.08	EPA8270
Anthracene	ug/Kg	540		07/30/02	326.08	EPA8270
Fluoranthene	ug/Kg	2800		07/30/02	326.08	EPA8270
Pyrene	ug/Kg	2800		07/30/02	326.08	EPA8270
Benzo(a)anthracene	ug/Kg	1400		07/30/02	326.08	EPA8270
Chrysene	ug/Kg	1300		07/30/02	326.08	EPA8270
Benzo(b)fluoranthene	ug/Kg	1500	*	07/30/02	326.08	EPA8270
Benzo(k)fluoranthene	ug/Kg	1500	*	07/30/02	326.08	EPA8270
Benzo(a)pyrene	ug/Kg	1500		07/30/02	326.08	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	410		07/30/02	326.08	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330		07/30/02	326.08	EPA8270
Benzo(ghi)perylene	ug/Kg	400		07/30/02	326.08	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: *Total = 3000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 26610 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Benzene	ug/Kg	120		08/03/02	5.5555	EPA8021
Toluene	ug/Kg	30		08/03/02	5.5555	EPA8021
Ethyl Benzene	ug/Kg	310		08/03/02	5.5555	EPA8021
m + p Xylene	ug/Kg	1100		08/03/02	11.111	EPA8021
o Xylene	ug/Kg	190		08/03/02	5.5555	EPA8021
Xylene	ug/Kg	1200		08/03/02	16.666	EPA8021
Isopropylbenzene	ug/Kg	92		08/03/02	5.5555	EPA8021
n-Propylbenzene	ug/Kg	180		08/03/02	5.5555	EPA8021
135-Trimethylbenzene	ug/Kg	5900		08/03/02	5.5555	EPA8021
124-Trimethylbenzene	ug/Kg	11000		08/03/02	5.5555	EPA8021
sec-Butylbenzene	ug/Kg	80		08/03/02	5.5555	EPA8021
p-Isopropyltoluene	ug/Kg	240		08/03/02	5.5555	EPA8021
n-Butylbenzene	ug/Kg	< 5.6		08/03/02	5.5555	EPA8021
Naphthalene(v)	ug/Kg	190		08/03/02	5.5555	EPA8021
tert-Butylbenzene	ug/Kg	13		08/03/02	5.5555	EPA8021

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 26611 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223492.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Greg Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #03993.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/26/02 RECEIVED:07/26/02

MATRIX:Soil SAMPLE: N Wall Comp

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	370		07/30/02	333.33	EPA8270
Acenaphthene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Fluorene	ug/Kg	< 330		07/30/02	333.33	EPA8270
Phenanthrene	ug/Kg	860		07/30/02	333.33	EPA8270
Anthracene	ug/Kg	340		07/30/02	333.33	EPA8270
Fluoranthene	ug/Kg	2000		07/30/02	333.33	EPA8270
Pyrene	ug/Kg	2000		07/30/02	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	940		07/30/02	333.33	EPA8270
Chrysene	ug/Kg	910		07/30/02	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	940	*#	07/30/02	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	940	*#	07/30/02	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	1000	#	07/30/02	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	330	#	07/30/02	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 330	#	07/30/02	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	330	#	07/30/02	333.33	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: *Total = 1880 ug/Kg, unable to separate isomers.
#Estimated due to low internal standard, *46%. Low recovery due to interference. QC limit is 50%.

DIRECTOR

rn = 26612 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	112.35	EPA8021
Benzene	ug/Kg	110		08/07/02	112.35	EPA8021
Toluene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Ethyl Benzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
m + p Xylene	ug/Kg	220		08/07/02	224.71	EPA8021
o Xylene	ug/Kg	< 110		08/07/02	112.35	EPA8021
Xylene	ug/Kg	310		08/07/02	337.07	EPA8021
Isopropylbenzene	ug/Kg	430		08/07/02	112.35	EPA8021
n-Propylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
135-Trimethylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
124-Trimethylbenzene	ug/Kg	170		08/07/02	112.35	EPA8021
sec-Butylbenzene	ug/Kg	850		08/07/02	112.35	EPA8021
p-Isopropyltoluene	ug/Kg	110		08/07/02	112.35	EPA8021
n-Butylbenzene	ug/Kg	1300		08/07/02	112.35	EPA8021
Naphthalene(v)	ug/Kg	900		08/07/02	112.35	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	112.35	EPA8021
% Solids		89		07/31/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.01 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Side Wall

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	520		08/02/02	337.07	EPA8270
Acenaphthene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Fluorene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Phenanthrene	ug/Kg	2000		08/02/02	337.07	EPA8270
Anthracene	ug/Kg	520		08/02/02	337.07	EPA8270
Fluoranthene	ug/Kg	2900		08/02/02	337.07	EPA8270
Pyrene	ug/Kg	2600		08/02/02	337.07	EPA8270
Benzo(a)anthracene	ug/Kg	1200		08/02/02	337.07	EPA8270
Chrysene	ug/Kg	1300		08/02/02	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	960	#	08/02/02	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	960	#	08/02/02	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	1100		08/02/02	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	600		08/02/02	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	630		08/02/02	337.07	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 1920 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27019 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 110		08/07/02	114.94	EPA8021
Benzene	ug/Kg	110		08/07/02	114.94	EPA8021
Toluene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Ethyl Benzene	ug/Kg	230		08/07/02	114.94	EPA8021
m + p Xylene	ug/Kg	600		08/07/02	229.88	EPA8021
o Xylene	ug/Kg	140		08/07/02	114.94	EPA8021
Xylene	ug/Kg	740		08/07/02	344.82	EPA8021
Isopropylbenzene	ug/Kg	260		08/07/02	114.94	EPA8021
n-Propylbenzene	ug/Kg	860		08/07/02	114.94	EPA8021
135-Trimethylbenzene	ug/Kg	830		08/07/02	114.94	EPA8021
124-Trimethylbenzene	ug/Kg	1700		08/07/02	114.94	EPA8021
sec-Butylbenzene	ug/Kg	410		08/07/02	114.94	EPA8021
p-Isopropyltoluene	ug/Kg	200		08/07/02	114.94	EPA8021
n-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
Naphthalene(v)	ug/Kg	1100		08/07/02	114.94	EPA8021
tert-Butylbenzene	ug/Kg	< 110		08/07/02	114.94	EPA8021
% Solids		87		07/31/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 27020 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223545.02 08/09/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX Ground, #039936.000
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:07/30/02 RECEIVED:07/30/02

MATRIX:Soil SAMPLE: Vent X Bottom

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	450		08/02/02	344.82	EPA8270
Acenaphthene	ug/Kg	520		08/02/02	344.82	EPA8270
Fluorene	ug/Kg	520		08/02/02	344.82	EPA8270
Phenanthrene	ug/Kg	5900		08/02/02	344.82	EPA8270
Anthracene	ug/Kg	1100		08/02/02	344.82	EPA8270
Fluoranthene	ug/Kg	5400		08/02/02	344.82	EPA8270
Pyrene	ug/Kg	6200		08/02/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	2500		08/02/02	344.82	EPA8270
Chrysene	ug/Kg	2500		08/02/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	2000	#	08/02/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	2000	#	08/02/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	2400		08/02/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	780		08/02/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 340		08/02/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	780		08/02/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total = 4000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27021 NYSDOH ID # 10320

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284

July 24, 2002

Barbara Donaghey
Testwell Laboratories, Inc.
47 Hudson Street
Ossining, New York 10562

[redacted]

Dear Ms. Donaghey:

Enclosed please find the Laboratory Analysis Report(s) for sample(s) received on July 19, 2002. Long Island Analytical Laboratories, Inc. analyzed the samples on July 23, 2002 for the following:

CLIENT ID	ANALYSIS
West Side of Building N	EPA 8021, EPA 8270, Lead
West Side of Building S	EPA 8021, EPA 8270, Lead

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	5
sec-BUTYLBENZENE	135-98-8	<5
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	8
METHYLENE CHLORIDE	75-09-2	21
NAPHTHALENE	91-20-3	6
n-PROPYLBENZENE	103-65-1	<5
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Venezia
Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<400
PHENOL	108-95-1	<400
2-CHLOROPHENOL	95-57-8	<400
1,3-DICHLOROBENZENE	541-73-1	<400
1,4-DICHLOROBENZENE	106-46-7	<400
1,2-DICHLOROBENZENE	95-50-1	<400
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<400
2-METHYLPHENOL	95-48-7	<400
HEXACHLOROETHANE	67-72-1	<400
N-NITROSODI-n-PROPYL AMINE	621-64-7	<400
4-METHYLPHENOL	106-44-5	<400
NITROBENZENE	98-95-3	<400
ISOPHORONE	78-59-1	<400
2-NITROPHENOL	88-75-5	<400
2,4-DIMETHYLPHENOL	105-67-9	<400
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<400
2,4-DICHLOROPHENOL	102-83-2	<400
1,2,4-TRICHLOROBENZENE	120-82-1	<400
NAPHTHALENE	91-20-3	942
4-CHLOROANILINE	106-47-8	<400
HEXACHLOROBUTADIENE	87-68-3	<400
4-CHLORO-3-METHYLPHENOL	59-50-7	<400
2-METHYLNAPHTHALENE	91-57-6	1,099
HEXACHLOROCYCLOPENTADIENE	77-47-4	<400
2,4,6-TRICHLOROPHENOL	88-06-2	<400
2,4,5-TRICHLOROPHENOL	95-95-4	<400
2-CHLORONAPHTHALENE	91-58-7	<400
2-NITROANILINE	88-74-4	<400
ACENAPHTHYLENE	208-96-8	437
DIMETHYLPHTHALATE	131-11-3	<400
2,6-DINITROTOLUENE	606-20-2	<400
ACENAPHTHENE	83-32-9	1,885

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. N
Date received: 07/19/02	Laboratory ID: 0220326
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<400
2,4-DINITROPHENOL	51-28-5	<400
DIBENZOFURAN	132-64-9	1,118
2,4-DINTROTOLUENE	121-14-2	<400
4-NITROPHENOL	100-02-7	<400
FLUORENE	86-73-7	2,399
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<400
DIETHYLPHTHALATE	84-66-2	<400
4-NITROANILINE	100-01-6	<400
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<400
N-NITROSODIPHENYLAMINE	86-30-6	<400
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<400
HEXACHLOROBENZENE	118-74-1	<400
PENTACHLORPHENOL	87-86-5	<400
PHENANTHRENE	85-01-8	11,895
ANTHRACENE	120-12-7	3,309
Di-n-BUTYLPHTHALATE	84-74-2	<400
FLUORANTHENE	206-44-0	14,105
PYRENE	129-00-0	15,036
BUTYLBENZYLPHTHALATE	85-68-7	<400
3,3-DICHLOROBENZIDINE	91-94-1	<400
BENZO-a-ANTHRACENE	56-55-3	6,124
CHRYSENE	218-01-9	7,200
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<400
DI-n-OCTYLPHTHALATE	117-84-0	<400
BENZO-b-FLUOROANTHENE	205-99-2	6,333
BENZO-k- FLUOROANTHENE	207-08-9	2,570
BENZO-a-PYRENE	50-32-8	5,307
INDENO(1,2,3-c,d)PYRENE	193-39-5	2,761
DIBENZO-a,h-ANTHRACENE	53-70-3	808
BENZO-g,h,i-PERYLENE	191-24-2	2,373

MDL's are raised due to matrix interference.

Michael Vendetti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
MTBE	1634-04-4	<5
BENZENE	71-43-2	<5
BROMOBENZENE	108-86-1	<5
BROMOCHLOROMETHANE	74-97-5	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-4	<5
BROMOMETHANE	74-83-9	<5
n-BUTYLBENZENE	104-51-8	8
sec-BUTYLBENZENE	135-98-8	6
tert-BUTYLBENZENE	98-06-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLORODIBROMOMETHANE	124-48-1	<5
CHLOROETHANE	75-00-3	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
DIBROMOMETHANE	74-95-3	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
DICHLORODIFLUOROMETHANE	75-71-8	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8021

PARAMETER	CAS No.	RESULTS ug/kg
1,2-DICHLOROPROPANE	78-87-5	<5
1,3-DICHLOROPROPANE	142-28-9	<5
2,2-DICHLOROPROPANE	594-20-7	<5
1,1-DICHLOROPROPENE	563-58-6	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYLBENZENE	100-41-4	<5
HEXACHLOROBUTADIENE	87-68-3	<5
ISOPROPYLBENZENE	98-82-8	<5
p-ISOPROPYLTOLUENE	99-87-6	<5
METHYLENE CHLORIDE	75-09-2	<5
NAPHTHALENE	91-20-3	53
n-PROPYLBENZENE	103-65-1	6
STYRENE	100-42-5	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	23
1,3,5-TRIMETHYLBENZENE	108-67-8	6
VINYL CHLORIDE	75-01-4	<5
p & m-XYLENES	1330-20-7	<10
o-XYLENE	1330-20-7	<5

Michael Vendetti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
Bis(2-CHLOROETHYL)ETHER	111-44-4	<800
PHENOL	108-95-1	<800
2-CHLOROPHENOL	95-57-8	<800
1,3-DICHLOROBENZENE	541-73-1	<800
1,4-DICHLOROBENZENE	106-46-7	<800
1,2-DICHLOROBENZENE	95-50-1	<800
Bis(2-CHLOROISOPROPYL)ETHER	108-60-1	<800
2-METHYLPHENOL	95-48-7	<800
HEXACHLOROETHANE	67-72-1	<800
N-NITROSODI-n-PROPYL AMINE	621-64-7	<800
4-METHYLPHENOL	106-44-5	<800
NITROBENZENE	98-95-3	<800
ISOPHORONE	78-59-1	<800
2-NITROPHENOL	88-75-5	<800
2,4-DIMETHYLPHENOL	105-67-9	<800
Bis(2-CHLOROETHOXY)METHANE	111-91-1	<800
2,4-DICHLOROPHENOL	102-83-2	<800
1,2,4-TRICHLOROBENZENE	120-82-1	<800
NAPHTHALENE	91-20-3	1,914
4-CHLOROANILINE	106-47-8	<800
HEXACHLOROBUTADIENE	87-68-3	<800
4-CHLORO-3-METHYLPHENOL	59-50-7	<800
2-METHYLNAPHTHALENE	91-57-6	1,742
HEXACHLOROCYCLOPENTADIENE	77-47-4	<800
2,4,6-TRICHLOROPHENOL	88-06-2	<800
2,4,5-TRICHLOROPHENOL	95-95-4	<800
2-CHLORONAPHTHALENE	91-58-7	<800
2-NITROANILINE	88-74-4	<800
ACENAPHTHYLENE	208-96-8	826
DIMETHYLPHTHALATE	131-11-3	<800
2,6-DINITROTOLUENE	606-20-2	<800
ACENAPHTHENE	83-32-9	3,083

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn West Side of Bldg. S
Date received: 07/19/02	Laboratory ID: 0220327
Date extracted: 07/22/02	Matrix: Soil
Date analyzed: 07/22/02	ELAP #: 11693

EPA METHOD 8270

Parameter	CAS No.	Results ug/kg
3-NITROANILINE	99-09-2	<800
2,4-DINITROPHENOL	51-28-5	<800
DIBENZOFURAN	132-64-9	2,476
2,4-DINTROTOLUENE	121-14-2	<800
4-NITROPHENOL	100-02-7	<800
FLUORENE	86-73-7	4,496
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	<800
DIETHYLPHTHALATE	84-66-2	<800
4-NITROANILINE	100-01-6	<800
4,6-DINITRO-2-METHYLPHENOL	534-52-1	<800
N-NITROSODIPHENYLAMINE	86-30-6	<800
4-BROMOPHENYL-PHENYL ETHER	101-55-3	<800
HEXACHLOROBENZENE	118-74-1	<800
PENTACHLORPHENOL	87-86-5	<800
PHENANTHRENE	85-01-8	23,383
ANTHRACENE	120-12-7	6,100
Di-n-BUTYLPHTHALATE	84-74-2	<800
FLUORANTHENE	206-44-0	24,831
PYRENE	129-00-0	23,487
BUTYLBENZYLPHTHALATE	85-68-7	<800
3,3-DICHLOROBENZIDINE	91-94-1	<800
BENZO-a-ANTHRACENE	56-55-3	9,894
CHRYSENE	218-01-9	11,004
Bis(2-ETHYLEXYL)PHTALATE	117-81-7	<800
DI-n-OCTYLPHTHALATE	117-84-0	<800
BENZO-b-FLUOROANTHENE	205-99-2	9,353
BENZO-k- FLUOROANTHENE	207-08-9	4,417
BENZO-a-PYRENE	50-32-8	7,601
INDENO(1,2,3-c,d)PYRENE	193-39-5	4,452
DIBENZO-a,h-ANTHRACENE	53-70-3	1,166
BENZO-g,h,i-PERYLENE	191-24-2	3,468

MDL's are raised due to matrix interference.

Michael Venditti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

Client: Testwell Laboratories	Client ID: Fed Ex / Brooklyn
Date received: 07/19/02	Laboratory ID: 0220326-0220327
Date extracted: 07/23/02	Matrix: Soil
Date analyzed: 07/23/02	ELAP #: 11693

TOTAL LEAD ANALYSIS

Lab ID	Client ID	Results mg/kg
0220326	West Side of Building N	433
0220327	West Side of Building S	216

Performed by SW-846 Method 6010

Michael Vendetti

Laboratory Director

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
101-4 Colin Drive • Holbrook, New York 11741
Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.01 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
m + p Xylene	ug/Kg	< 4.7		08/07/02	4.6511	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Xylene	ug/Kg	< 7.0		08/07/02	6.9767	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
124-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
Naphthalene(v)	ug/Kg	48		08/07/02	2.3255	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.3255	EPA8021
% Solids		86		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 27582 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.01 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-3

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1400		08/09/02	348.83	EPA8270
Acenaphthene	ug/Kg	670		08/09/02	348.83	EPA8270
Fluorene	ug/Kg	1600		08/09/02	348.83	EPA8270
Phenanthrene	ug/Kg	6300		08/09/02	348.83	EPA8270
Anthracene	ug/Kg	1700		08/09/02	348.83	EPA8270
Fluoranthene	ug/Kg	7100		08/09/02	348.83	EPA8270
Pyrene	ug/Kg	6400		08/09/02	348.83	EPA8270
Benzo(a)anthracene	ug/Kg	3400		08/09/02	348.83	EPA8270
Chrysene	ug/Kg	3400		08/09/02	348.83	EPA8270
Benzo(b)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(k)fluoranthene	ug/Kg	2800	#	08/09/02	348.83	EPA8270
Benzo(a)pyrene	ug/Kg	3000		08/09/02	348.83	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1200		08/09/02	348.83	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	510		08/09/02	348.83	EPA8270
Benzo(ghi)perylene	ug/Kg	1100		08/09/02	348.83	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =5600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27583 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.02 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Benzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
Toluene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Ethyl Benzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
m + p Xylene	ug/Kg	< 4.8		08/07/02	4.8192	EPA8021
o Xylene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Xylene	ug/Kg	< 7.2		08/07/02	7.2289	EPA8021
Isopropylbenzene	ug/Kg	6.0		08/07/02	2.4096	EPA8021
n-Propylbenzene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
124-Trimethylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
sec-Butylbenzene	ug/Kg	8.4		08/07/02	2.4096	EPA8021
p-Isopropyltoluene	ug/Kg	3.6		08/07/02	2.4096	EPA8021
n-Butylbenzene	ug/Kg	< 2.4		08/07/02	2.4096	EPA8021
Naphthalene(v)	ug/Kg	29		08/07/02	2.4096	EPA8021
tert-Butylbenzene	ug/Kg	4.8		08/07/02	2.4096	EPA8021
% Solids		83		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 27584 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.02 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-5

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1700		08/09/02	361.44	EPA8270
Acenaphthene	ug/Kg	1200		08/09/02	361.44	EPA8270
Fluorene	ug/Kg	1400		08/09/02	361.44	EPA8270
Phenanthrene	ug/Kg	8600		08/09/02	361.44	EPA8270
Anthracene	ug/Kg	2200		08/09/02	361.44	EPA8270
Fluoranthene	ug/Kg	11000		08/09/02	361.44	EPA8270
Pyrene	ug/Kg	11000		08/09/02	361.44	EPA8270
Benzo(a)anthracene	ug/Kg	6300		08/09/02	361.44	EPA8270
Chrysene	ug/Kg	6300		08/09/02	361.44	EPA8270
Benzo(b)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(k)fluoranthene	ug/Kg	5500	#	08/09/02	361.44	EPA8270
Benzo(a)pyrene	ug/Kg	5800		08/09/02	361.44	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	2500		08/09/02	361.44	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	1300		08/09/02	361.44	EPA8270
Benzo(ghi)perylene	ug/Kg	2400		08/09/02	361.44	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =11000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27585 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.03 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Toluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Ethyl Benzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
m + p Xylene	ug/Kg	< 4.6		08/07/02	4.5977	EPA8021
o Xylene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Xylene	ug/Kg	< 6.9		08/07/02	6.8965	EPA8021
Isopropylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Propylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
135-Trimethylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
124-Trimethylbenzene	ug/Kg	2.3		08/07/02	2.2988	EPA8021
sec-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
p-Isopropyltoluene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
n-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
Naphthalene(v)	ug/Kg	37		08/07/02	2.2988	EPA8021
tert-Butylbenzene	ug/Kg	< 2.3		08/07/02	2.2988	EPA8021
% Solids		87		08/05/02	0.1	SM182540G

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 27586 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.223612.03 08/12/02

Gannett Fleming, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560

ATTN: Gregory Ernst PO#:

SOURCE OF SAMPLE: FED EX, #39936
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:08/02/02 RECEIVED:08/02/02

MATRIX:Soil SAMPLE: SWTP-6

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	1500		08/09/02	344.82	EPA8270
Acenaphthene	ug/Kg	710		08/09/02	344.82	EPA8270
Fluorene	ug/Kg	780		08/09/02	344.82	EPA8270
Phenanthrene	ug/Kg	6700		08/09/02	344.82	EPA8270
Anthracene	ug/Kg	1800		08/09/02	344.82	EPA8270
Fluoranthene	ug/Kg	8000		08/09/02	344.82	EPA8270
Pyrene	ug/Kg	8300		08/09/02	344.82	EPA8270
Benzo(a)anthracene	ug/Kg	4000		08/09/02	344.82	EPA8270
Chrysene	ug/Kg	4000		08/09/02	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(k)fluoranthene	ug/Kg	3300	#	08/09/02	344.82	EPA8270
Benzo(a)pyrene	ug/Kg	3700		08/09/02	344.82	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1700		08/09/02	344.82	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	780		08/09/02	344.82	EPA8270
Benzo(ghi)perylene	ug/Kg	1700		08/09/02	344.82	EPA8270

cc:

LRL=Laboratory Reporting Limit

REMARKS: #Total =6600 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 27587 NYSDOH ID # 10320

PBS # : 2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

Site: FEDEX GROUND PACKAGE SYSTEM, INC.
300 MASPETH AVENUE
BROOKLYN, NY 11211

Owner: FEDEX GROUND
PO BOX 108
PITTSBURGH, PA 15230

(412) 262-6291

Mail: FEDEX GROUND
P.O. BOX 108
PITTSBURGH, PA 15230

Town: New York City **County:** Kings

Owner Type : Corporate or Commercial

On-Site Operator: FEDEX GROUND (718) 782-4848

Primary Operator:

Auth Rep: ATTN: JERRY C. SWART

Emergency : SCOTT GARTON (718) 782-4848 (412) 262-6291

Site Status : Unregulated (<1101 gal.) **Reg Expires :** 10/02/2002 **Cert Printed:** 05/07/1998 **Total Active Tanks :** 0 **Last Inspected:**

Site Type: Trucking/Transportation/Fleet Operation **Cert Issued:** 09/25/199 **Total Active Capacity :** 0 **Inspected By:**

(2) Tank No	(3) Tank Loc	(4) Status	(5) Date Install	(5) Date Closed	(6) Capacity (gals)	(7) Product	(8) Tank Type	(9) Tank IP	(10) Tank EP	(11) Tank SC	(12) Tank LD	(13) Tank OP	(14) Tank SP	(15) Tank Disp	(16) Pipe Loc	(17) Pipe Type	(18) Pipe EP	(19) Pipe SC	(20) Pipe LD	(21) UDC	(22) Multi Owner	Date Test	Next Test
001	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
002	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
003	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
004	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
005	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
006	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
007	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
008	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
009	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
010	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
011	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
012	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
013	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
014	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
015	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
016	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
017	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
018	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
019	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
020	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
021	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
022	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
023	5	5	12/1/88	8/1/96	1,000	0001	06	00	04	00	00	00		02	03	06	04					2/1/89	
24	5	5	1/1/65		550	0022	01	00	00	00	00	00			00	00	00						

(See Reverse Side or Last Page for Code Keys)

PBS # :
2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

PETROLEUM BULK STORAGE APPLICATION – SECTION B – TANK INFORMATION – CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Recondition/Repair/ Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, legs, stilts, rack, or cradle
4. Aboveground with 10% or more below ground
5. Underground
6. Aboveground in Subterranean Vault w/ access for inspections

Status (4)

1. In-service
2. Temporarily out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Under Dispenser Containment (UDC) – sump/containment underneath a motor fuel dispenser (21)

Check If Present

Tank Owned by Party Other Than Listed in Section a (22)

Check If Applicable

Product Stored (7)

Heating Oils
0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biodiesel (Heating)
2642. Used Oil (Heating)

Motor Fuels
0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jet Fuel (Biofuel)
2641. Aviation Gasoline

Crude Oil
0006. Crude Oil
0701. Crude Oil Fractions

Lubricating/Cutting Oils
0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used As Building Materials
2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits
0014. White/Mineral Spirits
1731. Naphtha

Mineral/Insulating Oils
0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils
0022. Waste/Used Oil
9999. Other -please list :*

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-please list:*

Internal Protection (9)

00. None
01. Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07. Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-please list:*

Secondary Containment (11/19)

00. None

Aboveground Tanks/Piping
01. Diking
02. Vault (w/access)
05. Synthetic Liner
06. Remote Impounding Area
09. Modified Double-Walled
10. Impermeable Barrier ***
11. Double Bottom ***

*** Each of these codes must be combined with code 01 or 06 to meet compliance requirements

Underground Tanks/Piping
03. Vault (w/o access)
04. Double-Walled
05. Synthetic Liner
07. Excavation/Trench Liner System
08. Flexible Internal Liner (Bladder)
10. Impervious Underlayment

Tank Leak Detection (12)

00 None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank Gauge)
06. Impermeable Barrier (Aboveground Only)
99. Other-please list:*

Overfill Prevention (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-off
04. Product Level Gauge (Aboveground Only)
05. Vent Whistle
99. Other-please list:*

Spill Prevention (14)

00. None
01. Catch Basin
02. Transfer Station Containment
99. Other - Please list*

Pumping/Dispensing Method (15)

00. None
01. Submersible
02. Suction
03. Gravity

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

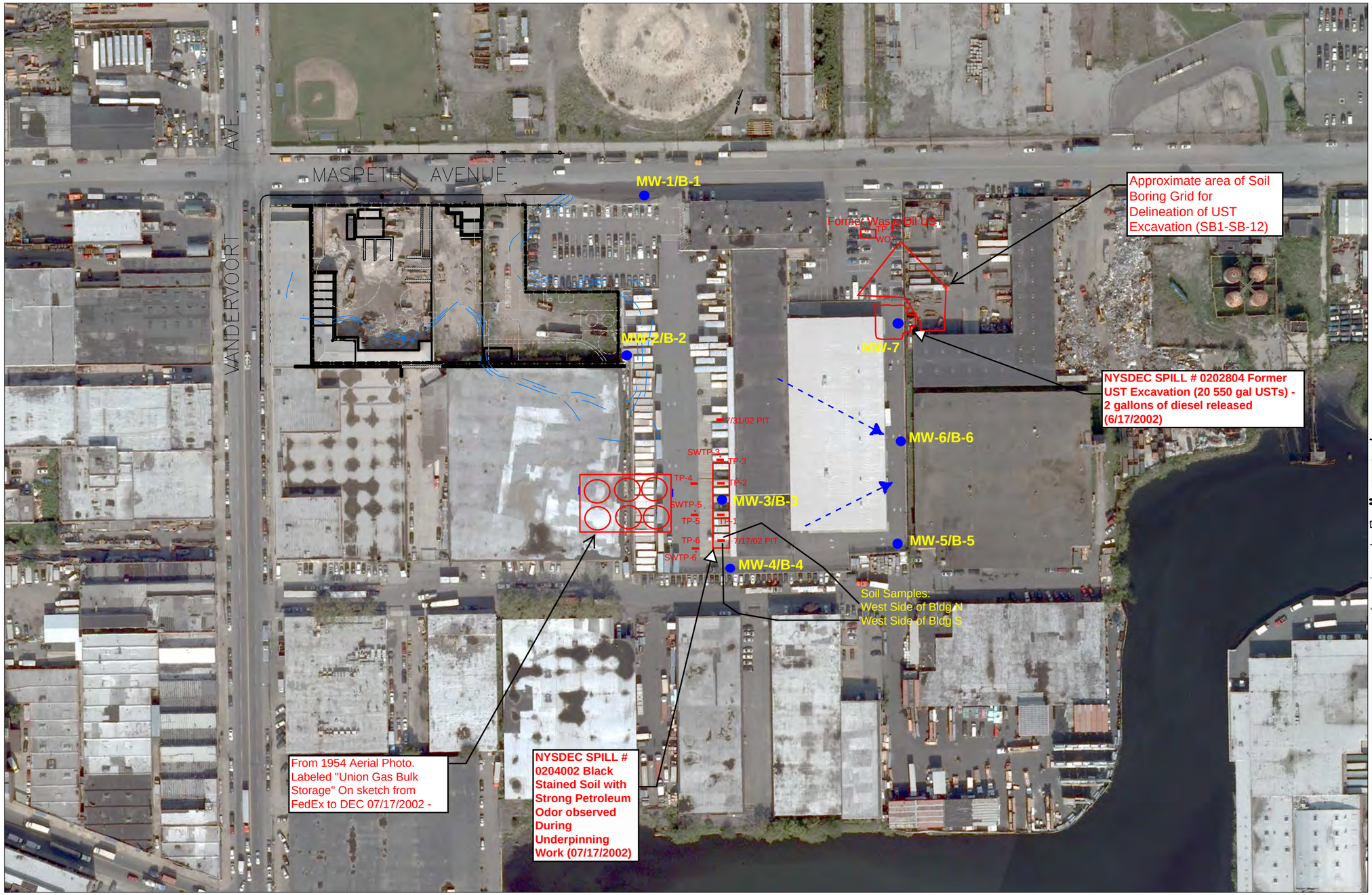
Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-please list:*

Pipe Leak Detection (20)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
08. Tank Top Sump
09. Exempt Suction Piping
99. Other-please list:*

*** If other, please list on a separate sheet including Tank Number**



N

75 0 150

GRAPHIC SCALE IN FEET

LEGEND:

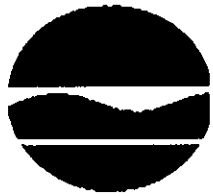
- PROPERTY LINE
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- HISTORIC WATERCOURSE
- CURRENT FEATURE
- GROUNDWATER FLOW DIRECTION PRESENTED IN GANNETT FLEMING 2005 GROUNDWATER
- MW-1/B-1 FEDEX WELL LOCATION
- Test Pit

AECOM

NATIONAL GRID EQUITY FORMER MGP SITE, BROOKLYN NY RI REPORT 60137362-400			**SITE LAYOUT WITH AERIAL PHOTO**
DATE: 01/07/10	DRWN: BcV/WMA		**FIGURE -**

File: J:\Rem_Eng\Project Files\P10 (1000 - 1999)\1765-076 Equity Former MGP\CADD\60137362-400-C01.dwg Layout: PHOTO (2) User: VershonB Plotted: Mar 05, 2010 - 2:05pm

New York State Department of Environmental Conservation
Regional Enforcement Coordinator, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482- 4507, **FAX:** (718) 482-6729
Website: http://www.dec.ny.gov/



Alexander B. Grannis
Commissioner

March 12, 2010

Foil Request # R2-10-355

Mr. Joshua Millard/AECOM
978-589-3238
Fax 978-589-3705

Re: Requesting search of records for Spill # 0202804

Dear Mr. Millard:

We are in receipt of your Foil request for the above referenced site. The identification Numbers Assigned is R2-10-355.

If for any reason you need to contact us again please use these numbers. When the programs are done gathering the files/information, this office will contact you.

Please expect our response within 20 days from the date of this letter.

If you have any questions, please call my secretary Cynthia Whiting/or Gloria Silva at 718-482-4507.

Sincerely yours,

Fawzy I. Abdelsadek, Ph.D., P.E.
Regional Enforcement Coordinator

NYS Department of Environmental Conservation
Office of General Counsel
625 Broadway, Albany, New York 12233-1500
(518) 402-9018 (Fax)



Alexander B. Grannis
Commissioner

FOIL Request No. 10-596
3/18/2010

Mr. Joshua Millard
AECOM Environment
2 Technology Park Drive
Westford, MA 01886-

Dear Mr. Millard:

This is to acknowledge receipt of your Freedom of Information Law request seeking records regarding: ***FEDEX - 300 Maspeth Avenue, Brooklyn, NY. (Spill No. 0202804, facility No. 235924)***

I have referred your request to the following Records Custodian(s) / Freedom of Information Law Coordinator(s) who may possess the records you are requesting:

Ms. Valerie Gibson - Environmental Remediation
625 Broadway
Albany, NY 12233-7012 (518) 402-9757

Dr. Fawzy Abdelsadek - Region 2
2 Hunters Point Plaza 4740 21st Street
Long Island City, NY 11101-5407 (718) 482-4507

Ms. Pauline Morrissette - Solid and Hazardous Materials
625 Broadway
Albany, NY 12233-7250 (518) 402-8712

You may expect a response to your request by **4/15/2010.**

If I can be of further assistance, please contact me at (518) 402-9522 . Refer to request number ***10-596*** , if you write or call.

Sincerely,

Ruth L. Earl
Records Access Officer

R2-10-355

10-596

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR ACCESS TO RECORDS

(See Instructions on Reverse Side)

APPLICANT

TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION:

I hereby apply to inspect the following records under the provisions of the Freedom of Information Law:

Address of Facility or Site (If applicable)
FEDEX, 300 Maspeth Ave., Brooklyn, NY

Spill No. (If applicable) 0202804 Facility ID No. (If applicable) 0202804

PBS No. (If applicable)

Other: NY Spills S106004598

Site ID 205400

DER Facility ID 235924

After inspection, should I desire copies of all or part of the records inspected, I will identify the records to be copied and hereby offer to promptly pay the established fees. (Cost of reproduction or 25¢ per page as applicable). Contact me if cost will exceed $ $250.00

Name (Print or type) Joshua C. Millard Telephone No. 978-589-3238 Fax No. 978-589-3705

Company (If applicable) AECOM Environment E-Mail Address joshua.millard@aecom.com

Mailing Address 2 Technology Park Drive, Westford, MA 01886

Signature Joshua C. Millard Date March 10, 2010

RECORDS RESPONSE

TO APPLICANT

RECORDS PROVIDED

The reproduction costs for the records provided $

Records have been (partially, fully) provided

(If not provided, date when records are expected to be fully provided:

RECEIVED
MAR 11 2010
RECORDS ACCESS OFFICER

RECORDS NOT AVAILABLE

Records cannot be located after a diligent search The Department is not the custodian for these records

RECORDS DENIED

I hereby advise that access to the records, or part of the records, has been denied for the reason(s) checked below:

Specifically exempt by another statute

Would impair present or imminent contract awards or collective bargaining negotiations

Compiled for law enforcement purposes

Inter-agency or intra-agency materials that are not:

- statistical or factual tabulations or data
- instructions to staff that affect the public
- final agency policy or determinations; or
- external audits, including but not limited to audits performed by the comptroller and the Federal government

Unwarranted invasion of privacy

Trade secrets

Could endanger life or safety of any other person

Other exemptions (as applicable)

Records Custodian signature Date:

Tom Robert Leung NYSDEC
718 482-4030
03/22/2010

New York State Department of Environmental Conservation
Regional Enforcement Coordinator, Region 2
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482- 4507, FAX: (718) 482-6729
Website: http://www.dec.ny.gov/



Alexander B. Grannis
Commissioner

March 26, 2010

Foil Request # R2-10-355

Mr. Joshua Millard/AECOM
978-589-3238
Fax 978-589-3705

Re: Requesting search of records for Spill # 0202804

Dear Mr. Millard:

NYSDEC/Region 2 has reviewed your request for the above referenced records under New York State's Freedom of Information Law (FOIL). Please note that most of our records are filed by number under the names of individuals or corporations. We have no way of locating or retrieving records if they are filed under names or addresses other than those you have provided.

If no records have been located, this does not necessarily mean, and should not be interpreted to mean that there have never been any violations, complaints, claims, investigations or inquiries involving those names or addresses. We cannot make any representations as to whether there are or have been any such violations, complaints, claims, investigations or inquiries.

☒ after a diligent search of Region 2 available files, no records could be located for the names and /or addresses you provided.

Thank you for your request. If additional information is needed, please call my Secretary/ Gloria Silva/Or Cynthia Whiting at (718) 482-4507, or fax your response to me.

Sincerely yours,

Fawzy I. Abdelsadek, Ph.D., P.E.
Regional Enforcement Coordinator

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

CALLER NAME: UGENE MARTIN **NOTIFIER'S NAME:** UGENE MARTIN

CLR'S AGENCY: MARTIN GEOCHEMESTRY **NOTIFIER'S AGENCY:** MARTIN GEOCHEMESTRY

CALLER'S PHONE: (718) 850-1600 **NOTIFIER'S PHONE:** (718) 850-1600

SPILL DATE: 04/09/1999 **SPILL TIME:** 12:00 pm

CALL RECEIVED DATE: 12/10/2002 **RECEIVED TIME:** 4:51 pm

SPILL LOCATION

PLACE: MR. AVILA **COUNTY:** New York

STREET: 60 HAMILTON TERRACE **TOWN/CITY:** New York City

COMMUNITY: MANHATTAN

CONTACT: SAME **CONTACT PHONE:** (917) 848-4889

SPILL CAUSE: Human Error **SPILL REPORTED BY:** Other

SPILL SOURCE: Tank Truck **WATERBODY:**

CALLER REMARKS:

CALLER STATES THAT THE TANK WAS OVERFILLED CALLER ALSO STATES THAT THE PROPERTY OWNER HAD TRIED TO REPORT THIS BUT WAS UNABLE TO DO SO FOR SOME REASON ALL DETAILS IN A COURT ACTION THAT HAS BEEN UNDERWAY LAWYER FOR RESIDENT IS MARK KRESSNER 718-584-8484

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
#2 Fuel Oil	Petroleum	90.00 G	0.00 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
ROBANI OIL & CRYSTAL OIL	ZZ	

Tank Number	Tank Size	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"
12/11/2002-Vought-Called Ugene Martin and left message to call Demeo or Vought. Also called Dr. Eli N. Avila (917-848-4889) who is owner of property along with Banco Popular and according to Mr. Avila on 4/9/99 there was a large oil spill in basement by Robani Oil and Crystal Oil (subcontractor). According to Dr. Avila: Robani Oil's president (Mr. Robert Pearson-owner) came to site and told Avila that delivery could not be performed due to crack in whistle and that he would have to fix whistle. Mr. Avila told Mr. Pearson to fix whistle. Pearson came to site and replaced fill pipe instead of whistle. As a result basement was filled during delivery event. Robani was called and performed site visit. Free product was removed and sorbent was placed down. Odors still persist till this day. Mr. Avila called hotline in 4/99 and spoke to a Mr. Greene who referred him to DEP. DEP performed site vist and fined Mr. Robani for discharge to sewer. Mr. Avila is currently going to court for damages. Dr. Martin came and performed soil borings and sent soil samples for analysis.

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

12/17/2002-Vought-Site visit by Vought. Visual inspection of basement shows oil stains 2" above grade on drywall. Weathered fuel oil odors present in basement. One 1'x 1' excavation with water at depth of 6". No odor or sheen to water. On-site were Dr. Avila and Eugene Martin (consultant). According to Dr. Avila: 1) his lawyer will send him a copy of affadavit regarding admission of liability against Crystal and Robani oil companies 2) Robani/Crystal performed four soil borings in 4/02 3) Eugene Martin (consultant hired by Dr. Avila) performed four soil borings in 5/02. 4) no one is currently living in residence due to odors. NYSDEC requested of Dr. Avila: 1) Boring site plan and analyticals 2) affadavit from judge and all other documents regarding court decisions 3) copy of delivery receipt. NYSDEC inspected neighboring properties at 58 Hamilton Terrace (Troy White 212-694-0445) and Childrens Art Carnival at 62 Hamilton Terrace (Marline Martin 212-234-4093) and found no detectable odors or petroleum impacts.

12/20/02-Vought-Received boring site plan from Martin Geochemistry.

12/23/2002-Vought-Received affadavit, delivery receipt and analyticals from Dr. Avila.

1/8/2003-Vought-Review of documents provided by Dr. Avila. Vought spoke with Randall Austin who directed Vought to 1) investigate the call made to Mr. Greene at spills hotline on 4/9/99 and 2) foward file to David Rubinton (NYSDEC legal for review). Vought called Avila and left him message of directive.

1/8/2003-Vought-Vought instructed by Rubinton to contact RP to give them opportunity to clean spill. Vought called Robani Oil 212-687-8699 and left message for Mr. Pearson to call NYSDEC. Vought called Crystal Transportation 718-828-3100 and spoke with Mr. Frank Rizzo who said that message would be passed on to company owners. Mr. Rizzo could not say whether NYSDEC would receive a call back from Crystal and that further inquiries should be fowarded to Robani.

1/8/2003-Vought-Spoke with Robert Pearson who will turn call over to Chris Foley (attorney). Mr. Pearson stated that Robani will not institute remedial acivities due to possiblity of previous spills at Site. Vought also spoke with Rubinton who said to fill out case initiation form and send it to Region 2 legal.

1/9/2003-Vought-Gave case intiation form to David Rubinton (Region 2-legal). Vought spoke with supervisor Rommel who instructed to send do work letters to both oil companies and respective lawyers. Vought called Dr. Avila and informed him of case intiation and sending of do work order to Crystal, Robani and respective lawyers. Do work letters sent by Vought on 1/9/2003.

1/10/2003-Vought-Received letter fom Foley stating "they were interested in discussing and potentially resolving" issues of 1/9/2003 do work letter.

1/13/2003-Vought-Received fax from Chirstopher Foley (representing Robani Energy) who stated that after he spoke with representation of Crystal Transportation a contractor would be called to perform remediation. Vought recevied call from Brian Campbell (Vertex Engineering 781-952-6047) stating that he was called by Foley and was requesting list of contractors. Campbell will supervise contractors. Vought faxed list on 1/13/2003 and also suggested to Campbell that he contact Eugene Martin. Campbell will call back NYSDEC with contractor decision. Vought also gave Campbell names and contacts at NY State Dept of Health to certify reoccupation.

1/13/2003-Vought-Received message from Matt Spears (Kressner 718-584-8484) representing Dr. Avila requesting FOIL information. Vought called and left Spears message. Vought also received message from Eric Slessinger (Caroll & Mcnulty-212-868-9090x405) reresenting Crystal Transportation. Vought called Slessinger and left message to call NYSDEC.

1/14/2003-Vought-Received message from Spears requesting foil information. Vought called Spears and suggested postponing FOIL request until decision arrives from Foley and Robani Energy. Vought told Spears to call 1/21 for updates (after due date on Do Work letter) sent 1/9/2003.

1/15/2003-Vought-Received message from Eric Slessinger. Vought called Slessinger who received letter and said that he will call Rubinton to discuss legal issues. Slessinger stated that it would be difficult to obtain contactor by due date on Due Work letter because they were looking to seek action against other oil companies which delivered to Site before spill event. Vought will contact Rubinton before PIN job is opened.

1/17/2003-Vought-Received message from Foley. Vought called Foley and left message. Foley returned call who was in court on 1/16. According to Judge Marcy Friedman Robani/Crystal will have time before trial to clean spill. Trial is scheduled for 3/24/2003. Foley has called Miller and Milro and scheduled a possible site visit for Wed 2/22/2003. Vought called Avila and notified him of possible site visit date. Vought will call Kressner to facilitate site visit.

1/21/2003-Vought-Spoke to Foley and contractors will be Milro and Brookside. Will attempt to arrange site for tommorrow (212-363-1300) despite lack of response from Kressner or Avila. Vought called Kressner to facilitate visit and left message to return call to NYSDEC. Vought spoke with Kressner and site visit is arranged for tomorrow. Kressner left message for Foley approving of site visit.

2/4/2003-Vought- Spoke with Dr. Martin performed test bore under 58 Hamilton on 1/29/03 and found PID reading of 5ppm. Sample will be sent for analysis and will fax me analyticals. Vought called Foley (212-363-1300) for update on contractors and left message to call Vought back. Vought called Kressner and he is skeptical of results and does not believe in state supervision. Vought called Dr. Avila. According to Dr. Avila three consulting companies performed a site visit and no proposals were submitted. Vought will attempt to arrange meeting between Kressner, Foley, RObani, Avila, DOH, Landmarks, Martin to prevent PIN project from being opened. Vought arranged meeting for 2/27/2003.

2/5/2003-Vought-Received letter from Foley asking if DEC was instructing them to refrain from proceeding with

remediation until 2/27/2003 meeting.

2/7/2003-Vought-Letter sent by NYSDEC (Rubinton) to Kressner stating that failure of Avila to take actions to address petroleum discharges would subject Avila to liabilities as a responsible party.

2/11/2003-Vought-NYSDEC sent letter to Foley that pre-hearing conference for 2/19 is adjourned due to scheduled 2/27 meeting.

2/20/2003-Vought-Work proposals submitted by Brookside Environmental (environmental consultant) and H2M (structural engineer).

2/26/2003-Vought-Send work proposal review letter to Brookside and all involved parties requiring STARS 8260/8270 analyes, collection of endpoint samples, description of sampling methods, scaled Site plan and concrete encapsulation.

2/27/2003-Vought-Meeting at NYSDEC with Kressner,Foley , Stapleton, Landmarks, NYC Dept. of Heath, Martin, Robani. Meeting. All parties agreed that a structual engineer report will be produced by Vertex engineering (Scott Hamarich 631-758-1580). Vertex will be supervising Brookside. Engineer report will be sent to Landmarks and then to Dept. of Buildings for approval who will review report by 3/21. Copies of report will also be sent to DEC and Kressner. Brookside will also produce addendum to scope of work incorporating NYSDEC 2/26 proposal review letter comments.

3/7/2003-Vought-Received proposal from H2M (Michael McKeown-631-756-8000) who is structural engineer hired by Robani. Proposal approves basement excavation and aslo said that boring was performed by H2M and bedrock is at 2.5'. Vought sent letter to Dr. Martin requesting all previous boring logs, sample analyticals and sample depths.

3/18/2003-Vought-Spoke with Brian Stapleton submitted report to Kressner on 3/10. Stapleton has not yet received response from Kressner. Vought told Stapleton that Landmarks and DOB approval of structural report and final draft workplan to NYSDEC were needed as stated in meeting.

4/30/2003-Vought-Spoke with Dr. Avila who inquired about next step for remedial action despite private lawsuit between Avila and Oil companies. Vought told Avila to call Rubinton because Rubinton told Vought not to take any action until Rubinton gave approval.

12/10/03 - AUSTIN - PROJECT TRANSFERRED FROM VOUGHT TO SAWYER - END

NYSDEC SPILL REPORT FORM

DEC REGION: 2 **SPILL NUMBER:** 0209311

SPILL NAME: MR. AVILA **DEC LEAD:** aaobliga

12/2/04 - Sawyer - Received work proposal on 10/21 from Vinny at Island Environmental Tank.

1/6/05 - Sawyer - Talked to Melanie at Island Environmental Tank and answered her questions about offsite contamination. The subsurface investigation and delineation will encompass all areas associated with the spill.

5/31/05 - reassigned to Vought by Koon Tang since DEE needs technical support for enforcement action, and Chris Sawyer has just left the Department. - KST

9/12/05 - Obligado - Site transferred from Vought to Obligado.

PIN **T & A** **COST CENTER**

CLASS: C4 **CLOSE DATE:** **MEETS STANDARDS:** False

NYSDEC SPILL REPORT FORM

DEC REGION#: 2 **SPILL NUMBER:** 0202804

SPILL NAME: **DEC LEAD:** JBVOUGHT

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"

10/15/04-Vought-File review by Vought:

Access Agreement-7/10/02. Access agreement for FedEx to remove USTs and portion of tankfield on adjacent property.

Letter from Testwell Labs(Pearce) to FedEx(Swart)-7/10/02. Work proposal for installation of nine soil borings, field screening of soil samples, conversion of three of the borings into monitoring wells, quarterly sampling of the wells and further excavation of the soil and piping.

Letter from Testwell Labs(Pearce) to DEC Vought-7/22/02. Soil "samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding had been removed..." Testwell recommends: 1)backfilling of UST excavation 2)SVOC's are due to fill material 3)if wells are deemed necessary "they are to be installed at a later date after site work (piles and foundations) is complete" 4)remaining vent lines terminate at surface level and remaining contaminated soil on adjacent property should be removed.
Letter from Gannett Fleming (Ernst) to DEC Vought-8/13/02. "This letter is intended to inform the NYSDEC of the projected site remediation activities." "Based on the endpoint soil data (samples WSW and SSW no further action is recommended for the soil beneath facility footprint which is currently under construcion". No groundwater monitoring wells are proposed inside the facility." Gannett Fleming will provide a comprehensive site investigation report on both the UST removal and for the "black tar like substance found in the southwestern portion of the site".

Report from Gannett Fleming to DEC Vought-8/28/04. "This letter provides a summary of the additional investigation activities and sample analysis that have taken place....." Removal of twenty (550-gallon) gasoline USTs and 900 tons of impacted soil. See above 7/22/02 entry for endpoint analyticals. Soil analyticals show 7750ppb 1,3,5-trimethylbenzene(WSW Wall) and 6470ppb xylene(WSW Wall), 110ppb benzene(vent x bottom), 110ppb benzene(Vent x sw), 120ppb benzene(n wall composite), 5900ppb 1,3,5-trimethylbenzene(n wall composite), 11000ppb 1,2,4-trimethylbenzene(n wall composite). Groundwater analytical from one well shows 40ppb benzene and 26ppb xylene. "Black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing warehouse". Seven test pits were dug to delineate the stained soil but no groundwater samples were collected. Report recommends: 1)no further actions for soils south and west of the former UST area 2)additional delineation north and east of the former UST area via Geoprobe 3)installation of six montoring wells (two upgradient and four downgradient). Investigation activities will be provided to DEC in a supplemental site investigation report. Soil analyticals shos PAH exceedences throughout site due to fill material.

Report from Gannett Fleming to DEC Vought-6/8/04. "This letter report documents the results of investigative activities conducted...." "A review of historic Sanborn maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. Installation of six monitoring wells. An additional well was installed to replace a well destroyed in the tankfield excavation. Groundwater at a depth of 8' below grade. "..groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site". Groundwater analyticals show 21ppb ethylbenzene(MW1), 13ppb 1,3,5-trimethylbenzene(MW1), 97ppb napthalene(MW1), 10ppb benzene(MW2), 7ppb ethylbenzene(MW2), 93ppb napthalene(MW2), 20ppb benzene(MW7), 7ppb ethylbenzene(MW7), 35ppb xylene(MW7), 52ppb napthalene(MW7). Soil analyticals showed no VOC exceedences and SVOC exceedences attributable to fill material. Report recommends: 1)no further action with respect to soil 2)no further action for onsite groundwater due to "poor regional groundwater quality". Report requests no further action. DEC requires: 1)one full year of groundwater monitoring prior to closure.

PIN: **T & A:** **COST CENTER:**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

MASPETH AVENUE
6/04
89.5
MW-1/B-1
89.48
gw: E21
13,5 13
Naph 97
NG
1.0
DISTRIBUTION CENTER
PARKING
gw: B20
E7
x35
naph 62
MW-7
90.73
NYSDEC SPILL
0202804
FORMER UST
EXCAVATION
91.44
MW-2/B-2
PARKING
0
90.5
MW-6/B-
87.40
90.0
ED
LL,
89.60
MW-3/B-3
NYSDEC SPILL
0204002
BLACK STAINED
SOIL WITH STRONG
PETROLEUM ODOR
88.0
88.5
MW-5/B-5
88.79
89.0
MW-2/B-2
89.82
89.5
GROUND
JA
REWE STREET
gw
B10
E7
Naph 93
300 M

0204002 NYSDEC INITIAL SPILL REPORT FORM 0204002
DEC Region: 2 - Long Island City Spill No.: 0204002

Spill Name :
Caller Info :
JERRY SWART
FED EX
(412) 262-6291

Lead DEC : Vought
Notifier Info :
JERRY SWART
FED EX
(412) 262-6291

Spill Date: 07/15/2002 CID#: 207 Call Received Date: 07/17/2002
Spill Time: 13:00 hrs. Call Received Time: 11:27 hrs.

	Material Spilled:	Class:	Spilled:	Recovered:
1)	UNKNOWN HAZARDOUS MATERIAL	HazMat	Unknown Gal	Unknown
2)				
3)				
4)				

Spill Location:

300 MASPATH AVE
BROOKLYN CO: Kings
Contact: JERRY SWART
Phone: (412) 262-6291

Potential Spiller Info:

Contact:
Phone:

Spill Cause: Unknown
Source: Unknown
Waterbody:

Resource Affected: On Land

Spill Reported by: Affected Persons

Caller Remarks:
black tarry substance

PBS Number:

	Tank Number	Tank Size	Test Method	Leak Rate
1)				
2)				
3)				

Classification: Meets Standards?: EDO: Y - N
□□UST Eligible?: Regional Close Date: / /

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Petroleum Bulk Storage Program

Facility Information Report

Printed : 07/22/2002

PBS # : 2-336319

Site : RPS, INC.
300 MASPETH AVENUE
300 MASPETH AVE
BROOKLYN, NY 11211
County : KINGS Town : NEW YORK CITY
Latitude : N Longitude : W
SPDES# : CBS# :
Site Type : Trucking/Transportation

Operator : RPS, INC. (718) 782-4848
Emergency : STEVEN WOLL (718) 782-4848

Site status : Subpart 360-14 Fac.
Total Active Tanks : 1
Active Capacity : 550 gals.

Reg Expires : 10/02/2002
Last Inspection : / /
Cert Printed : 05/07/1998

Site Errors : Complete
Owner Error : Complete
Tank Errors : Complete

Owner : RPS, INC
PO BOX 5459
AKRON, OH 44334-0459

Phone : (330) 665-2814
Owner Type : Corporate/Commercial

Mail : CALIBER SYSTEM, INC.
PO BOX 5459
AKRON, OH 44334-0459

Att : REGINA R. GODWIN (330) 665-2814

TankNo	TankLoc	Stat	DateIn	Capac (g)	Product	TankType	TankInt	TankExt	PipeLoc	PipeType	PipeInt	PipeExt	SecCont	Leak	OverFil	Disp	LastTest	NextTest	TStat
24	4	2	01/01/1965	550	C	1	0	00	0	0	0	00	00	00	00	0	/ /	/ /	1
001	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
002	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
003	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
004	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
005	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
006	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
007	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
008	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
009	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
010	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
011	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
012	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
013	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
014	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
015	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
016	4	4	01/01/3965	550	9	1							0	0		3		CLOSED: 01/01/1994	
017	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
018	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
019	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
020	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
021	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
022	4	4	01/01/1965	550	9	1							0	0		3		CLOSED: 01/01/1994	
023	4	5	12/01/1988	1,000	3	5	0	4	3	3	0	4	0	0	0	2		CONVERTED: 08/01/1996	

NYSDEC SPILL REPORT FORM

DEC REGION#: 2 **SPILL NUMBER:** 0202804

SPILL NAME: **DEC LEAD:** JBVOUGHT

CALLER NAME: CHARLIE SCHNUGG **NOTIFIER'S NAME:**

CLR'S AGENCY: TEST WELL LABORATORIES **NOTIFIER'S AGENCY:** CONTRACTOR

CALLER'S PHONE: (914) 944-2570 **NOTIFIER'S PHONE:**

SPILL DATE: 06/17/2002 **SPILL TIME:** 11:30 am

CALL RECEIVED DATE: 06/17/2002 **RECEVIED TIME:** 12:01 pm

SPILL LOCATION

PLACE: **COUNTY:** Kings

STREET: 300 MASPETH AV **TOWN/CITY:** New York City

COMMUNITY: BROOKLYN

CONTACT: **CONTACT PHONE:**

SPILL CAUSE: Equipment Failure **SPILL REPORTED BY:** Other

SPILL SOURCE: Commercial/Industrial **WATERBODY:**

CALLER REMARKS:
they were excavating a previously closed tank & came across it by the piping - they will excavate & stock pile the soil

MATERIAL	CLASS	SPILLED	RECOVERED	RECOURCES AFFECTED
Diesel	Petroleum	2 G	0 G	Soil,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
	300 MASPETH AV BROOKLYN NY	

OTHER SPILLS / CLEANUPS / PBS AT SITE

FACILITY ID	SPILL NUMBER / PROGRAM NUMBER	CLOSE DATE	PROGRAM TYPE

Tank Number	Tank Size	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

PIN: **T & A:** **COST CENTER:**

CLASS: B4 **CLOSE DATE:** **MEETS STANDARDS:** False

Created On: 06/17/2002

Date Printed: 10/18/2004 Last Updated: 10/18/2004

Brooklyn Union Gas Company Drawings

January 2016

Page 46; schedule 482. - The number of lifts as called for in column (e), is as follows:

HOLDERS

LOCATION	AVAILABLE DECEMBER 31,1915	NUMBER OF LIFTS
Third Ave. & Degraw St.	1	3
Degraw, Nevins & Third Ave.	1	2
" " " " "	1	2
Fifth & Smith Streets	1	2
" " " "	1	2
12th St. & Gowanus Canal	1	2
" " " " "	1	3
" " " " "	1	5
Plymouth & Gold Streets	1	2
" " " "	1	2
" " " "	1	2
Front & Bridge Streets	1	2
" " " "	1	3
Keap Street & Kent Avenue	1	2
#39 Skillman Street	1	2
Rutledge St. & Kent Ave.	1	2
#5 Skillman Street	1	3
" " "	1	3
Kent Ave. & No. 12th St.	1	3
" " " " " "	1	3
Wythe Ave. & No. 12th St.	1	5
Berry & North 12th Streets	1	5
Scholes & Bogart Streets	1	3
Williams & Belmont Avenues	1	4
Beaver & Church Sts., Jamaica	1	3
Ashford St. & Atlantic Ave.	1	1
" " " " "	1	3
	27	

RELIEF HOLDERS

LOCATION	AVAILABLE DECEMBER 31, 1915	NUMBER OF LIFTS
Fifth & Smith Streets	1	2
Degraw, Nevins & Third Ave.	1	2
Kent Avenue & Cross Street	1	2
" " " " "	1	2
Kent Ave. & No. 12th Street	1	2
" " " " "	1	2
Maspeth & Porter Avenues	1	3
12th Street & Gowanus Canal	1	2
" " " " "	1	2
	9	

CORRECTION AUTHORIZED IN RESPONDENT'S LETTER OF June 26, 1916.

December 31

(a) LOCATION.	NUMBER OF HOLDERS. (b) In Use Dec. 31 1914	(c) Installed in 1915	(d) Removed In 1915	(e) Available Dec. 31 1915	(f) Capac. in M.cu.ft.	DESCRIPTION. (g) Open or Covered.	(h) Brick or Steel.	(i) Builder & Type	(j) Year Built.
Fifth & Smith Streets	1			1	246	Open	Brick	Bartlett, Hayward & Co.	1889
Degraw, Nevins & Third Ave.	1			1	100	"	Steel	Thos. F. Rowland	1882
Kent Avenue & Cross Street	1			1	107	"	"	Bartlett, Hayward & Co.	1891
" " " " "	1			1	255	"	"	" " " "	1902
Kent Avenue & No. 12th Street	1			1	315	"	Brick	Jesse Story & Co.	1863
" " " " " "	1			1	506	"	"	Camden Iron Works	1868
Maspeth & Porter Avenues	1			1	430	"	"	Laurel Iron Works	1893
12th Street & Gowanus Canal	1			1	105	"	Steel	Bartlett, Hayward & Co.	1903
" " " " "	1			1	320	"	Brick	Hoey, Kennedy & Co.	1872
T O T A L	9			9	2,164				

There were no Relief Holders installed or retired during the year.

None of the foregoing apparatus was incapacitated for service at the close of the year.

WJG
2/19/16.

H O L D E R S.

December 31, 1915.

(a) LOCATION.	NUMBER OF HOLDERS (b) In Use Dec. 31 1914	(c) Installed in 1915	(d) Removed In 1915	(e) Available Dec. 31 1915	(f) Capac. in M. cu. ft.	DESCRIPTION. (g) Open or Covered	(h) Brick or Steel	(i) Builder & Type	(j) Year Built
Third Ave. & Degraw St.	1			1	985	Open	Brick	Bartlett, Hayward & Co.	1887
Degraw, Nevins & Third Ave.	1			1	252	"	"	Continental Iron Works	1878
" , " " " "	1			1	284	"	"	" " "	1878
Fifth & Smith Streets	1			1	493	"	"	Bartlett, Hayward & Co.	1889
" " " "	1			1	245	"	"	" , " " "	1889
12th St. & Gowanus Canal	1			1	370	"	"	R. D. Wood & Co.	1888
" " " " "	1			1	575	"	Steel	" " " " "	1891
" " " " "	1			1	5,000	"	"	Bartlett, Hayward & Co.	1904
Plymouth & Gold Streets	1			1	296	"	Brick	Jesse Starr & Co.	1851
" " " "	1			1	299	"	"	" " " "	1851
" " " "	1			1	301	"	"	" " " "	1851
Front & Bridge Streets	1			1	580	"	"	Continental Iron Works	1867
" " " "	1			1	1,146	"	"	Logan Iron Works	1890
Keap Street & Kent Ave.	1			1	370	Covered	"	Continental Iron Works	1872
#39 Skillman Street	1			1	304	"	"	Jesse Starr & Co.	1875
Rutledge Street & Kent Ave.	1			1	1,056	Open	"	Bartlett, Hayward & Co.	1886
#5 Skillman Street	1			1	553	"	"	- - - - - - - - - - -	- -
" " "	1			1	539	"	Steel	Bartlett, Hayward & Co.	1891
Kent Ave. & No. 12th Street	1			1	460	"	Brick	Continental Iron Works	1884
" " " " " "	1			1	1,100	"	"	Logan Iron Works	1888
Wythe Ave. & North 12th St.	1			1	5,000	"	Steel	Bartlett, Hayward & Co.	1903
Berry & North 12th Streets	1			1	5,000	"	"	" , " " "	1908
Scholes & Bogart Streets	1			1	1,499	"	"	" , " " "	1892
Williams & Belmont Avenues	1			1	3,250	"	"	" , " " "	1903
Beaver & Church Sts., Jamaica	1			1	500	"	"	" , " " "	1898
Ashford St. & Atlantic Ave.	1			1	100	"	Brick	Continental Iron Works	- -
" " " " "	1			1	500	"	Steel	Logan Iron Works	1892
T O T A L S	27			27	31,057				

There were no holders installed or retired during the year.

None of the foregoing apparatus was incapacitated for service at the close of the year.

WJG
1/24/16.

B/MM

GAS HOLDERS

December 31, 1920.

(a) LOCATION	(b) Number	(c) Capacity (M. cu. ft.)	(d) Year Built	(e) Builder and Type	(f) Tank brick, steel or concrete	(g) No. of lifts	(h) Foundation	(i) Incapacitated, etc.
Third Ave. & Degraw Street	1	985	1887	Bartlett, Hayward & Co.	Brick	3	Concrete	
Degraw, Nevins & Third Ave.	1	252	1878	Continental Iron Works	"	2	"	
" " " "	1	284	1878	" " "	"	2	"	
Fifth & Smith Streets	1	493	1889	Bartlett, Hayward & Co.	"	2	"	
" " " "	1	245	1889	" " " "	"	2	"	
12th St. & Gowanus Canal	1	370	1888	R. D. Wood & Company	"	2	"	
" " " " "	1	575	1891	" " " " "	Steel	3	"	
" " " " "	1	5,000	1904	Bartlett, Hayward & Co.	"	5	"	
Plymouth & Gold Streets	1	296	1851	Jesse Starr & Co.	Brick	2	"	
" " " "	1	299	1851	" " " "	"	2	"	
" " " "	1	301	1851	" " " "	"	2	"	
Front & Bridge Streets	1	580	1867	Continental Iron Works	"	2	"	
" " " "	1	1,146	1890	Logan Iron Works	"	3	"	
Keap Street & Kent Avenue	1	370	1872	Continental Iron Works	"	2	"	
#39 Skillman Street	1	304	1875	Jesse Starr & Co.	"	2	"	
Rutledge Street & Kent Ave.	1	1,056	1886	Bartlett, Hayward & Co.	"	2	"	
#5 Skillman Street	1	553	----	- - - - - - - - - - - -	"	3	"	
" " "	1	539	1891	Bartlett, Hayward & Co.	Steel	3	"	
Kent Ave. & No. 12th Street	1	460	1884	Continental Iron Works	Brick	3	"	
" " " " " "	1	1,100	1888	Logan Iron Works	"	3	"	
Wythe Av. & No. 12th Street	1	5,000	1903	Bartlett, Hayward & Co.	Steel	5	"	
Berry & North 12th Streets	1	5,000	1908	" " " "	"	5	"	
Scholes & Bogart Streets	1	1,499	1892	" " " "	"	3	"	
Williams & Belmont Avenues	1	3,250	1903	" " " "	"	4	"	
Beaver & Church Sts., Jamaica	1	500	1898	" " " "	"	3	"	
Ashford St. & Atlantic Ave.	1	100	----	Continental Iron Works	Brick	1	"	
" " " " "	1	500	1892	Logan Iron Works	Steel	3	"	
TOTAL	27	31,057						None

There were no holders installed or retired during the year.

AMC
2-24-20.

GAS HOLDERS
(RELIEF)
December 31, 1920.

(a) LOCATION	(b) Number	(c) Capacity (M. cu. ft.)	(d) Year Built	(e) Builder and Type	(f) Tank brick, steel or concrete	(g) No. of lifts	(h) Foundation	(i) Incapacitated, etc.
Fifth & Smith Streets	1	246	1889	Bartlett, Hayward & Co.	Brick	2	Concrete	
Degraw, Nevins & Third Av.	1	100	1882	Thos. F. Rowland	Steel	2	"	
Kent Ave. & Cross Street	1	107	1891	Bartlett, Hayward & Co.	"	2	"	
" " " " "	1	255	1902	" " " "	"	2	"	
Kent Ave. & North 12th St.	1	315	1863	Jesse Starr & Co.	Brick	2	"	
" " " " " "	1	306	1868	Camden Iron Works	"	2	"	
Maspeth & Porter Avenues	1	430	1893	Laurel Iron Works	"	3	"	
12th St. & Gowanus Canal	1	105	1903	Bartlett, Hayward & Co.	Steel	2	"	
" " " " "	1	320	1872	Hoey, Kennedy & Co.	Brick	2	"	
TOTAL	9	2,184						None

There were no relief holders installed or retired during the year.

AMG
2-24-21.



GREENPOINT WORKS
PLAN SHOWING FORMER SHORE LINES OF NEWTOWN CREEK, COPIED FROM TOPO. DEPT. SHEETS #58 & #59.
SCALE 1"=200'

7C57

MASPETH AVE.

WELL

PURIFYING HOUSE.

CELLAR

METER

VALVE

VALVE

VALVE

ELV.

OXIDE ROOM

CONDENSER & SCRUBBERS

CONDENSERS

GENERATOR HOUSE

ELV.

BOILER ROOM

EXHAUSTERS.

12" CAST IRON PIPE

RELIEF HOLDER

THREE SECTIONS

BRICK TANK 90' DIA.

CAPACITY 430000

CUBIC FEET.

TAR TANK

DRIP TANK 5'X8'

SEPARATOR 8'X12'

BOILER ROOM.

STABLE

OIL HOUSE

OIL STORAGE TANK 30'X 30'

SMITH SHOP

COAL SHED

BROOKLYN UNION GAS CO.

PLAN OF

EQUITY WORKS

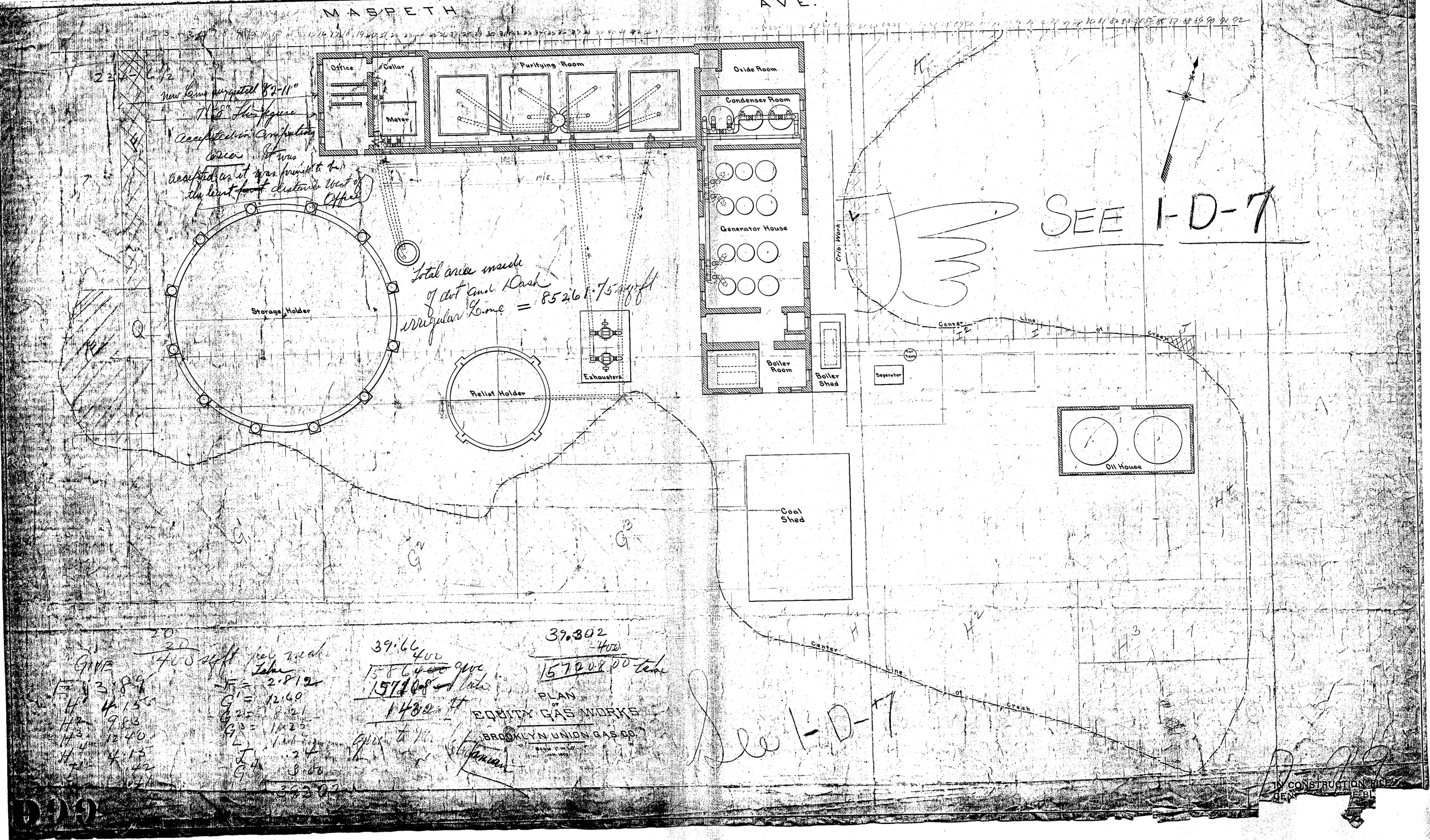
SCALE 20'=1" JULY 27TH 1905

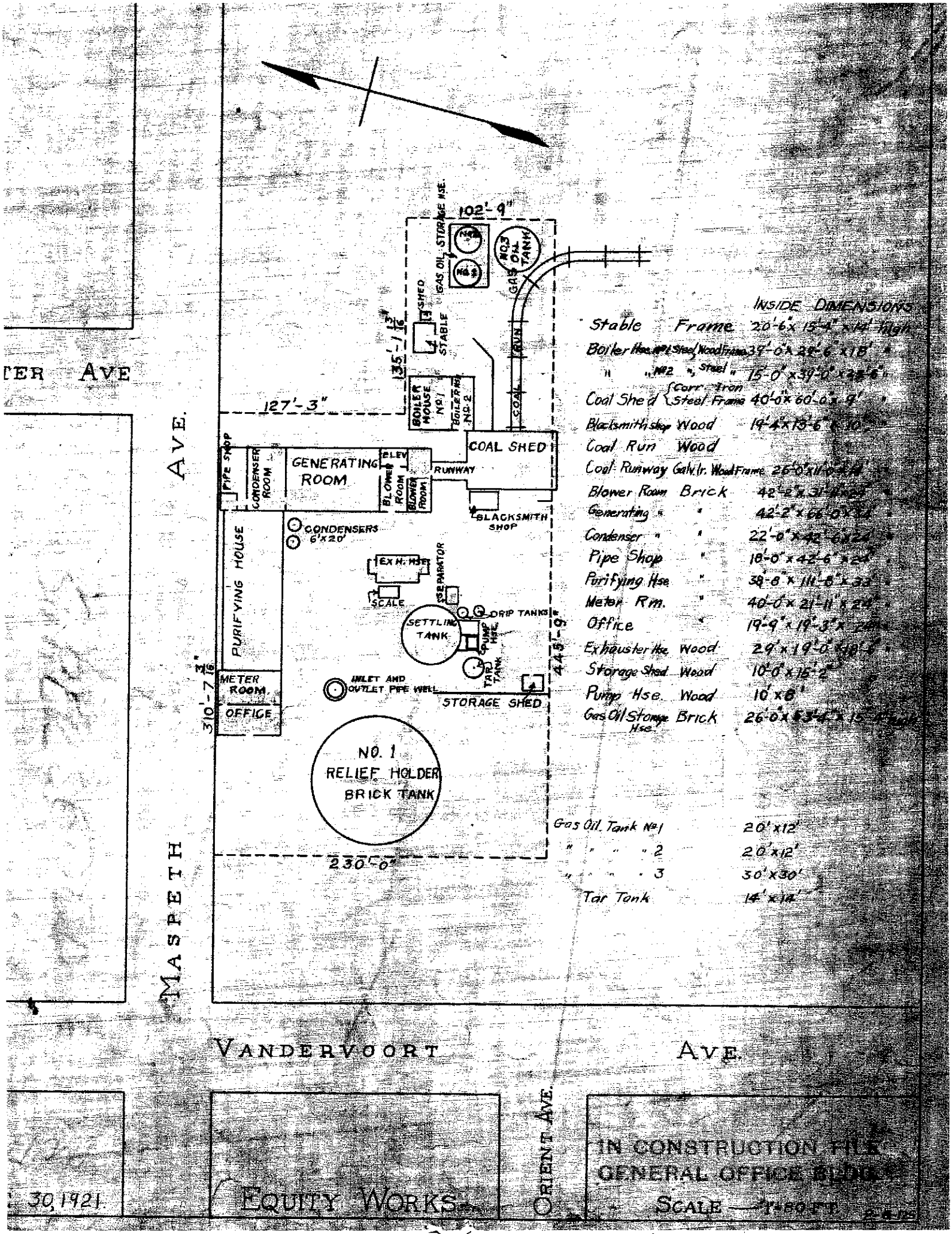
L.S.STILES.

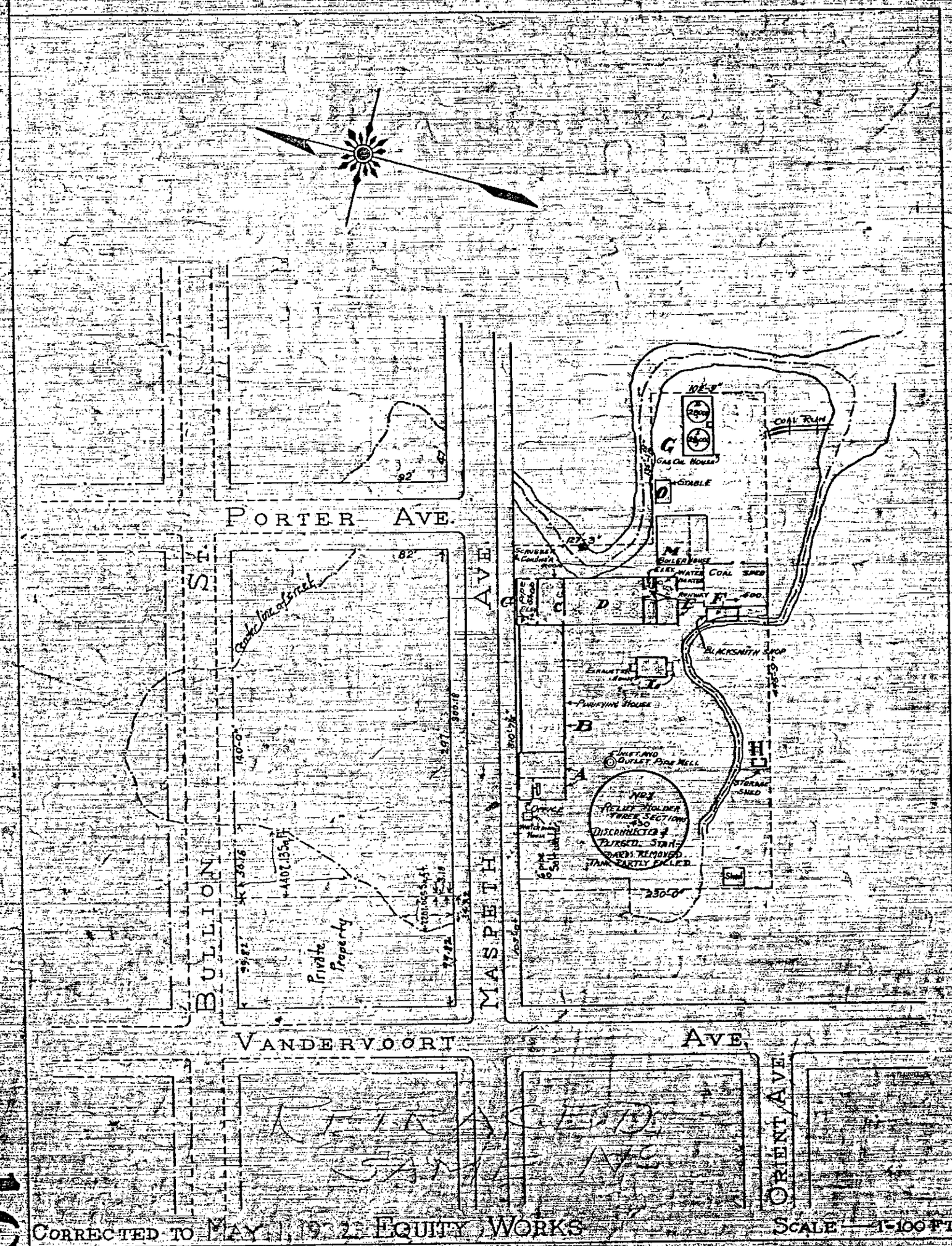
APPROVED

CHIEF ENGINEER E.D.

IN CONSTRUCTION FILE
GENERAL OFFICE BLDG.


MASPETH AVE.
Office
Cellar
Meter
Purifying Room
Oxide Room
Condenser Room
Generator House
Crib Work
Storage Holder
Relief Holder
Exhausters
Boiler Room
Boiler Shed
Separator
Oil House
Coal Shed
Center Line of Creek
SEE 1-D-7
Total area inside of dot and Dash irregular Line = 85261.75 sq ft
new Line surveyed 82-11" 71'-8" This figure accepted in computing area. It was accepted as it was found to be the least distance West of Office
PLAN OF EQUITY GAS WORKS
BROOKLYN UNION GAS CO.
Scale 1" = 20'
See 1-D-7
IN CONSTRUCTION FILE


TER AVE
MASPETH AVE.
VANDERVOORT AVE.
ORIENT AVE.
102'-9"
127'-3"
230'-0"
135'-1 1/2"
310'-7 1/16"
44'-5"
GAS OIL STORAGE HSE.
No 1
No 2
No 3 OIL TANK
SHED
STABLE
GAS RUN
COAL RUN
BOILER HOUSE No 1
BOILER No 2
COAL SHED
PIPE SHOP
CONDENSER ROOM
GENERATING ROOM
ELEV
BLOWER ROOM
RUNWAY
BLACKSMITH SHOP
CONDENSERS 6'X20'
PURIFYING HOUSE
EXH. HSE
SEPARATOR
SCALE
DRIP TANKS
SETTLING TANK
PUMP HSE
TAR TANK
METER ROOM
OFFICE
INLET AND OUTLET PIPE WELL
STORAGE SHED
NO. 1 RELIEF HOLDER BRICK TANK
INSIDE DIMENSIONS
Stable Frame 20'-6"x 15'-4" x 14' high
Boiler Hse. No 1 Steel, Wood Frame 39'-0" x 28'-6" x 18'
" " No 2 " Steel " 15'-0" x 39'-0" x 28'-6"
Coal Shed (Corr. Iron, Steel Frame) 40'-0" x 60'-0" x 9'
Blacksmith Shop Wood 19'-4" x 13'-6" x 10'
Coal Run Wood
Coal Runway Galv. Ir. Wood Frame 26'-0" x 11'-0" x 24'
Blower Room Brick 42'-2" x 31'-
Generating " " 42'-2" x 66'-0" x
Condenser " " 22'-8" x 42'-6" x 24'
Pipe Shop " 18'-0" x 42'-6" x 20'
Purifying Hse " 38'-8" x 111'-8" x 32'
Meter Rm. " 40'-0" x 21'-11" x 24'
Office " 19'-9" x 19'-3" x
Exhauster Hse. Wood 29' x 19'-0"
Storage Shed Wood 10'-0" x 15'-2"
Pump Hse. Wood 10' x 8'
Gas Oil Storage Hse. Brick 26'-0" x 13'-4" x 15'
Gas Oil Tank No 1 20' x 12'
" " " 2 20' x 12'
" " " 3 30' x 30'
Tar Tank 14' x 14'
30, 1921
EQUITY WORKS
IN CONSTRUCTION FILE GENERAL OFFICE BUILDING
SCALE — 1" = 50 FT.



CORRECTED TO MAY 1, 1932 EQUITY WORKS SCALE 1"=100 FT.

IN CONSTRUCTION FILE
GENERAL OFFICE BLDG.

16119

16119



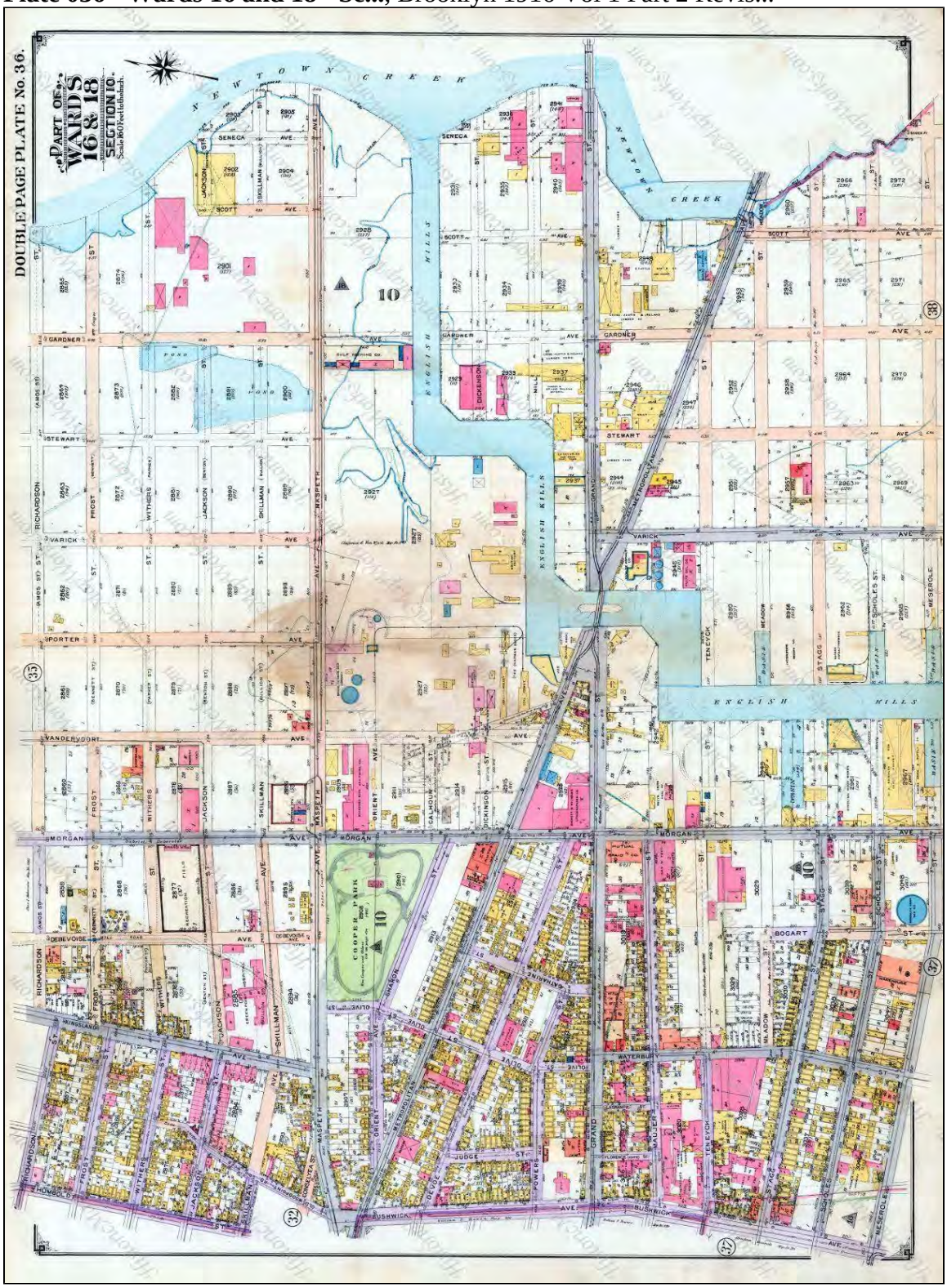
THE BROOKLYN UNION GAS CO.
BROOKLYN, N.Y.

FORMER
EQUITY WORKS
SMALL PROPERTY PLAN

SCALE 1 in.=100 ft.	DATE June 23, 1909
Drawn by R.D. Hedges	Approved Chief Engr.
Traced by R.D. Hedges	
Checked by [illegible]	Construction Engr.

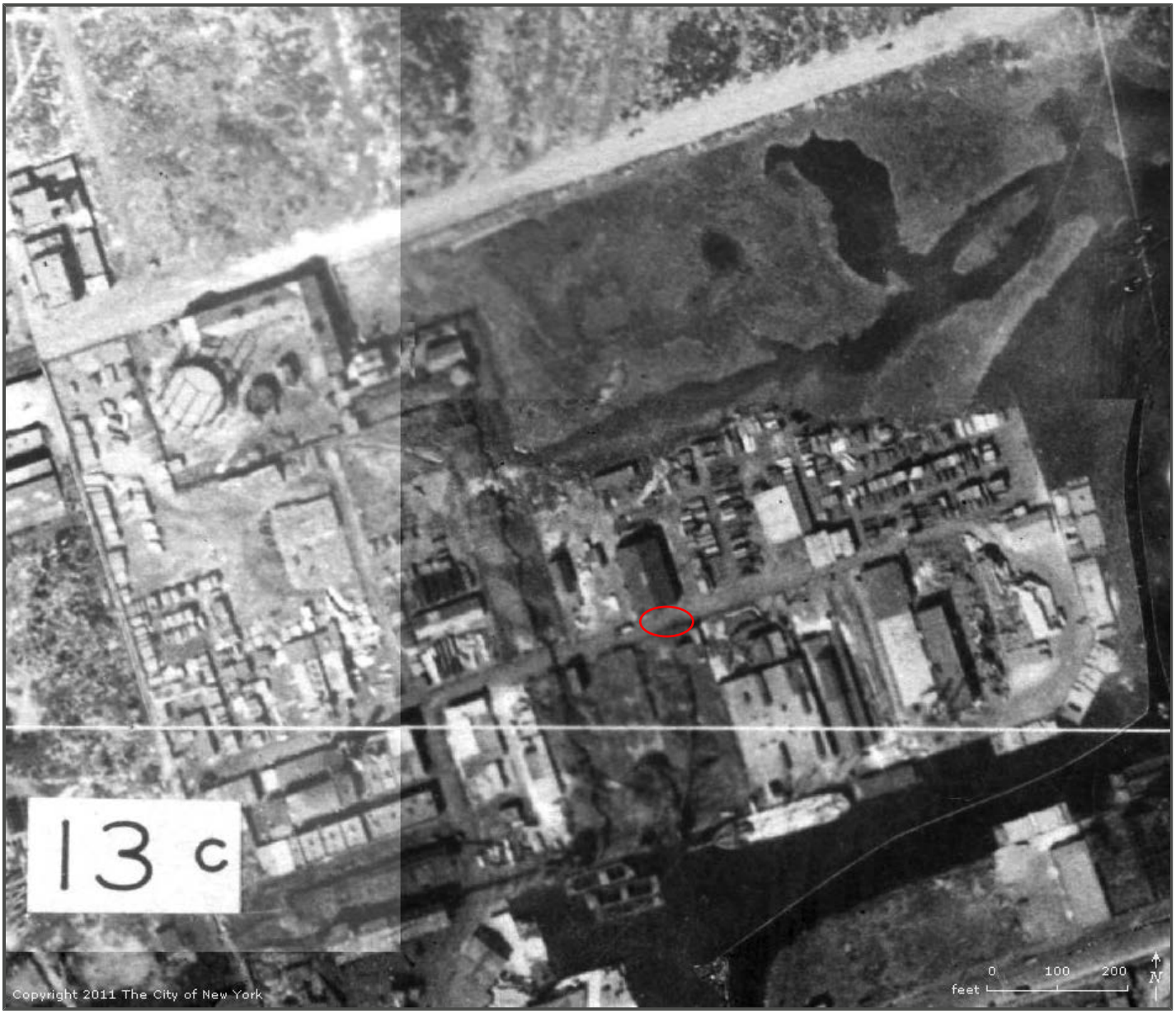
Historical Drawings and Aerial Photographs

Plate 036 - Wards 16 and 18 - Se..., Brooklyn 1916 Vol 1 Part 2 Revis...



1924 Equity MGP Historic Aerial

[NYCityMap]



Equity Works Manufactured Gas Plant
222 Maspeth Avenue
Brooklyn, NY 11211

Inquiry Number: 2348436.2
October 27, 2008

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EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography October 27, 2008

Target Property:

222 Maspeth Avenue

Brooklyn, NY 11211

Year	***Scale***	***Details***	***Source***
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1966	Aerial Photograph. Scale: 1"=750'	Panel #: 2440073-F8/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 2440073-F8/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=750'	Panel #: 2440073-F8/Flight Date: April 27, 1984	EDR
1994	Aerial Photograph. Scale: 1"=750'	Panel #: 2440073-F8/Flight Date: April 04, 1994	EDR
2006	Aerial Photograph. Scale: 1"=488'	Flight Year: 2006	EDR


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YEAR: 1954
= 750'
N

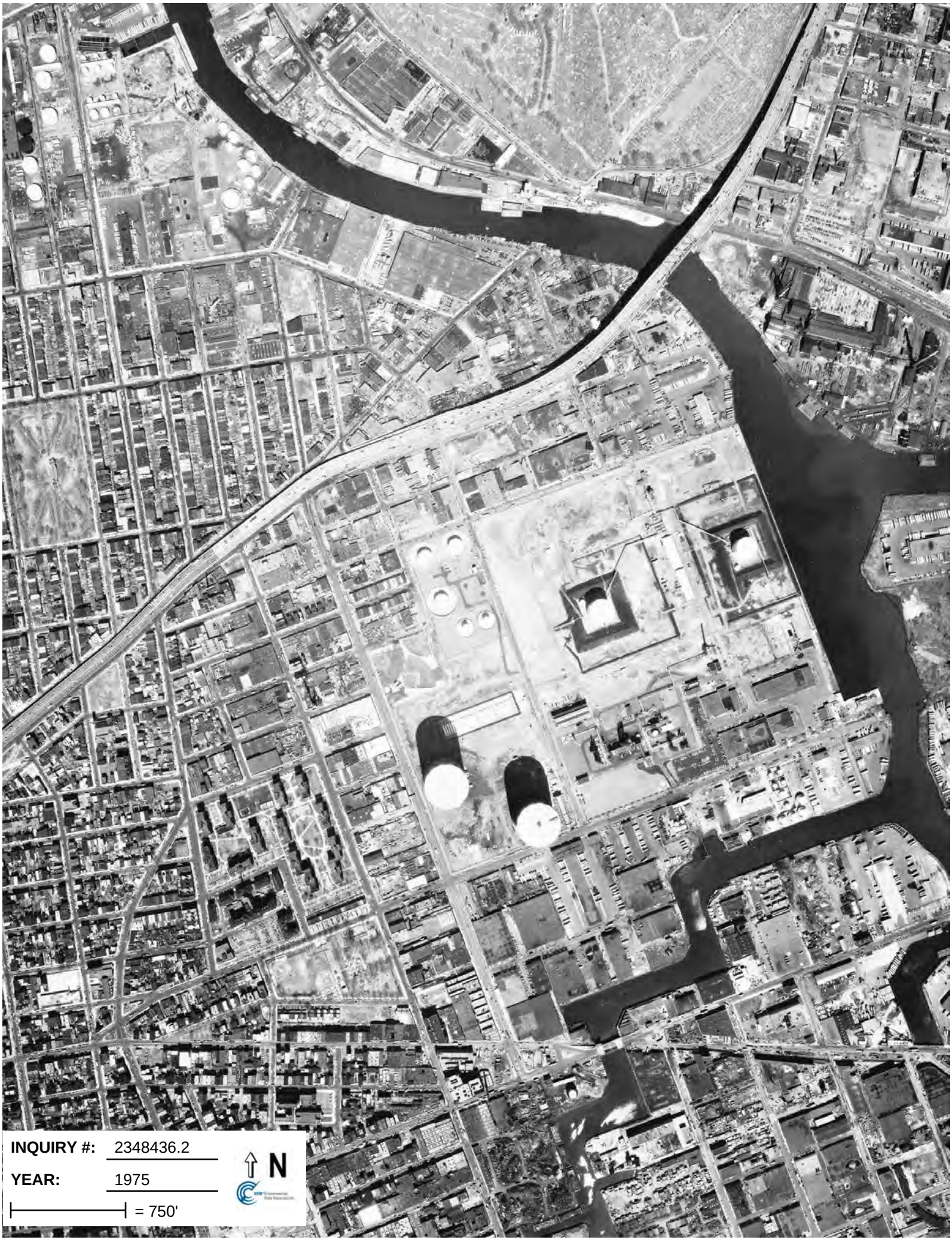


INQUIRY #: 2348436.2

YEAR: 1966

= 750'

N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YEAR: 1975
= 750'
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INQUIRY #: 2348436.2
YEAR: 1984
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INQUIRY #: 2348436.2
YEAR: 1994
= 750'
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INQUIRY #: 2348436.2
YEAR: 2006
= 488'
N

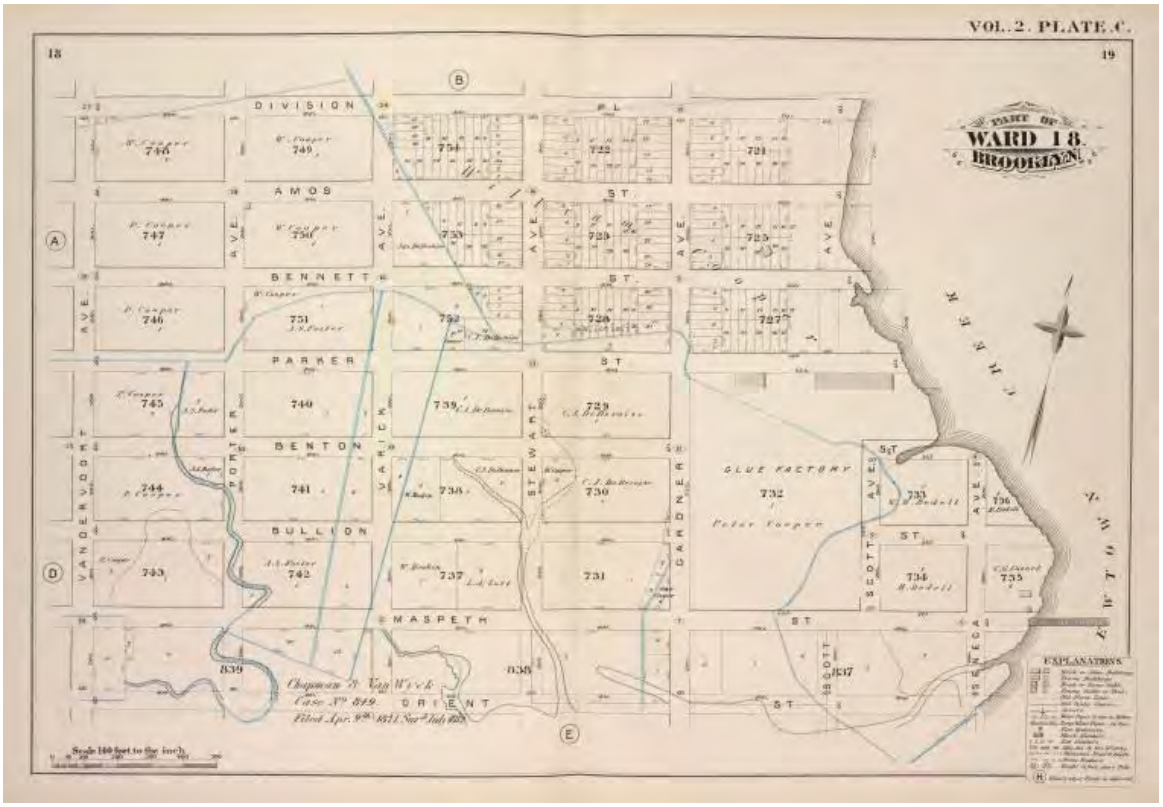

Image Title: Vol. 2. Plate, C. [Map bound by Division Pl., Newtown Creek, Orient St., Vandervoort Ave.; Including Amos St., Bennett St., Parker St., Benton St., Bullion St., Maspeth St., Porter Ave., Varick Ave., Stewart Ave., Cardner Ave., Scott Ave., Seneca Ave.]

Item / Page / Plate: 18/19

Source: Atlases of New York city. / Detailed estate and old farm line atlas of the city of Brooklyn : complete in six volumes ... from official records, private plans, and actual surveys ... / by G.M. Hopkins, C.E.

Source Description: 1 atlas (6 v.) : all col. maps (folded) ; 47 cm.

Location: Stephen A. Schwarzman Building / The Lionel Pincus and Princess Firyal Map Division

Catalog Call Number: Map Div.++ (New York City) (Hopkins, G.M., Company. Detailed estate and old farm line atlas of the city of Brooklyn. 1880) Library has: v.1-2, 4-6

Digital ID: 1627471

Record ID: 1765245

Digital Item Published: 5-8-2008; updated 6-22-2011

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BENTON
BULLTON
MASPETH
ORIENT
VANDERVOORT
PORTER
VARICK
STEWART
745
740
739
729
744
741
738
730
743
742
737
731
839
838
D
E
Chapman & Van Wyck
Case No 849.
Filed Apr. 9th 1811 Sur'd July 1813
Scale 100 feet to the inch.

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Collection Guide
- Early Real Estate Atlases of New York

Library Division
- Stephen A. Schwarzman Building / The Lionel Pincus and Princess Firyal Map Division

All Any Go



Image ID: 1512463

[Plate 16: Bounded by (Newtown Creek) Seneca Avenue, Flushing Avenue, Grattan Street, Knickerbocker Avenue, Morgan Avenu... [Plate 16: Part of Ward 18. Brooklyn, N.Y.] (1886)

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Map Division

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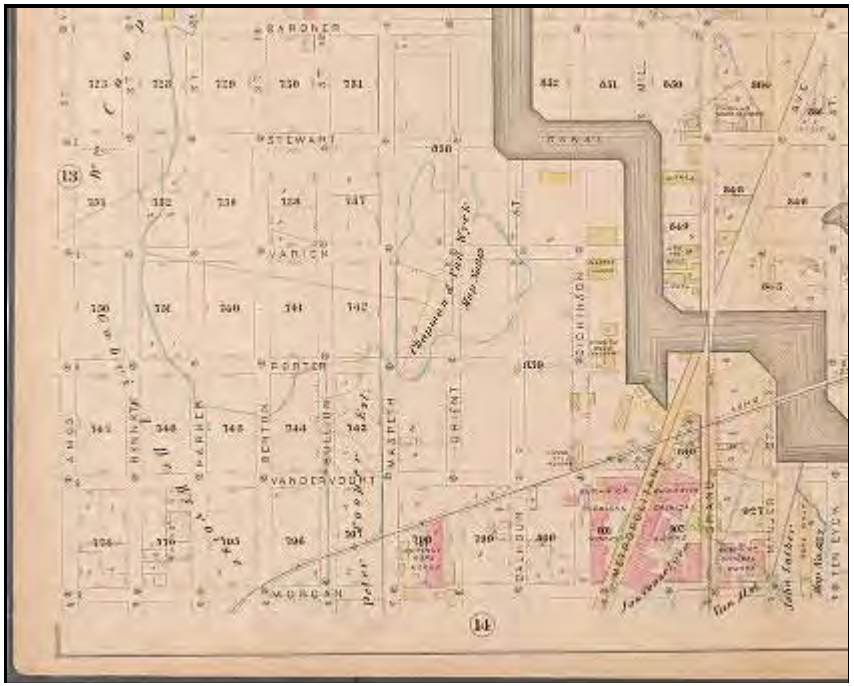
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STEWART
VARICK
PORTER
VANDERVOORT
MORGAN
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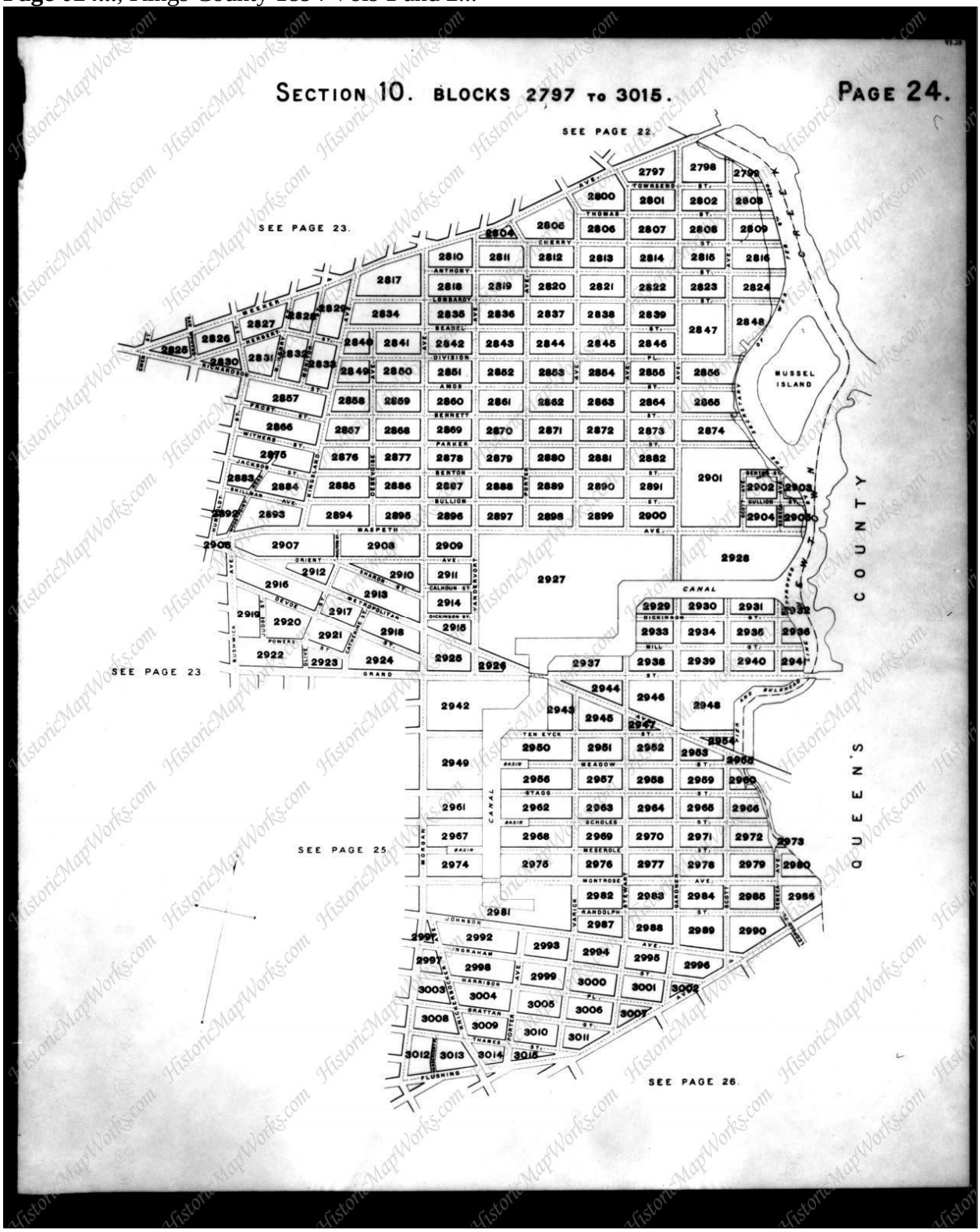
14

Page 024..., Kings County 1894 Vols 1 and 2...



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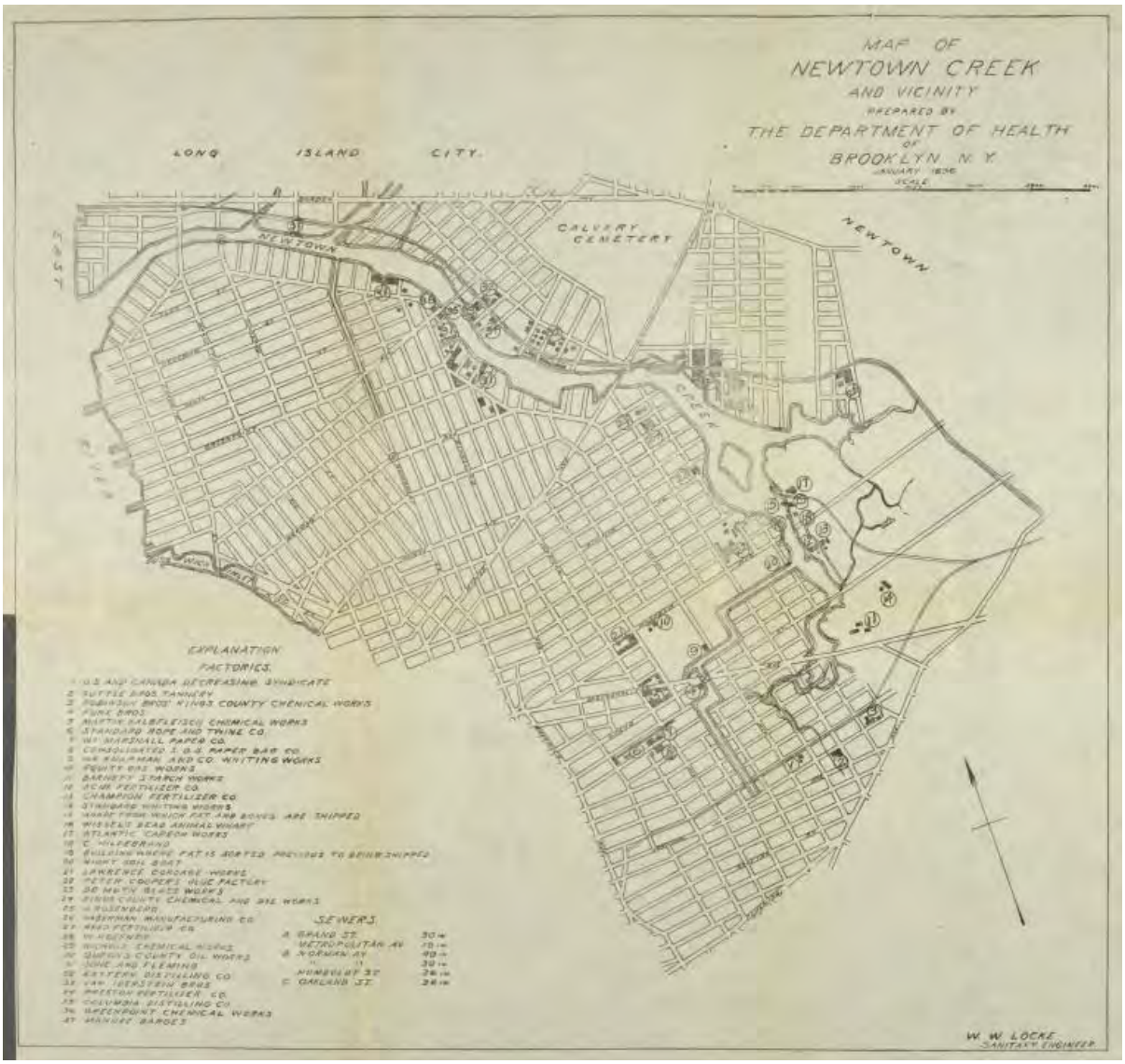

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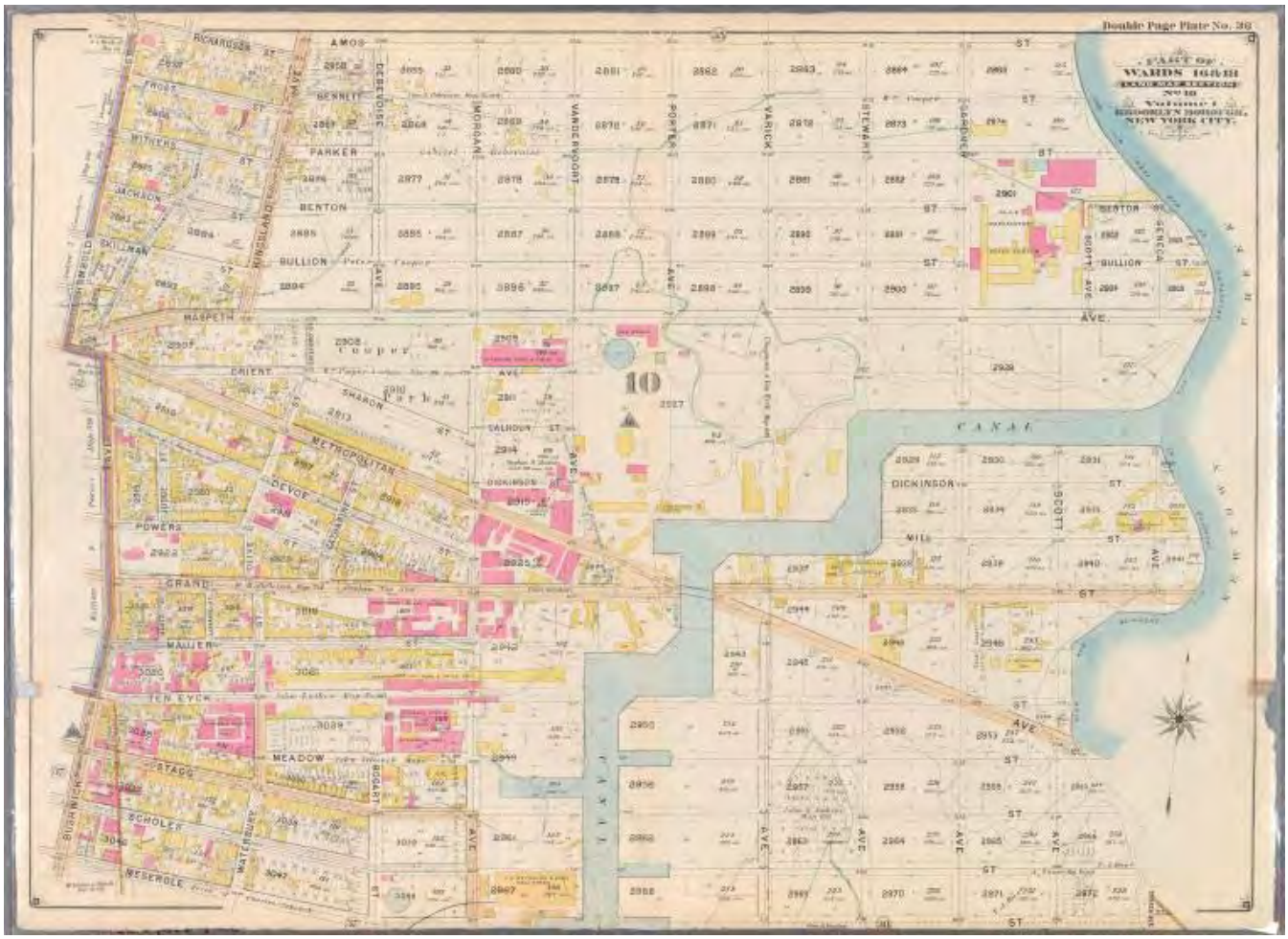
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PART OF
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NEW YORK CITY.
AMOS
BENNETT
PARKER
BENTON
BULLION
MASPETH
ORIENT
SHARON
METROPOLITAN
DEVOE
POWERS
GRAND
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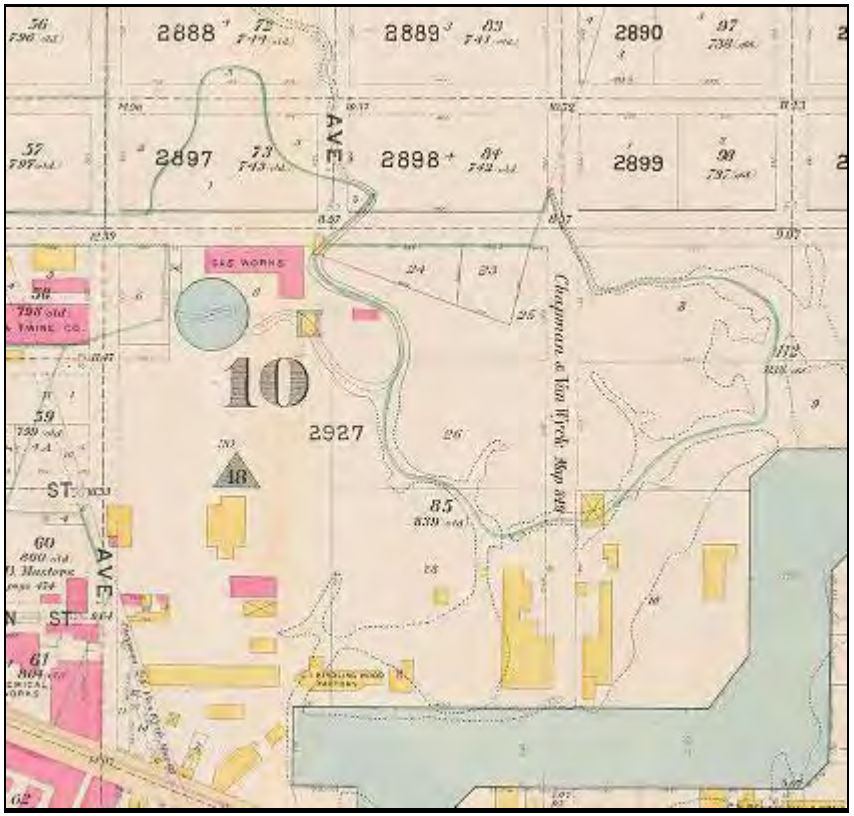
TEN EYCK
MEADOW
STAGG
SCHOLER
MESEROLE
DICKINSON
MILL
CANAL
10


2888
2889
2890
2897
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2899
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GAS WORKS
10
2927
48
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AVE
Chapman & Van Wyck Map 849

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- Ullitz, Hugo

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- Early Real Estate Atlases of New York

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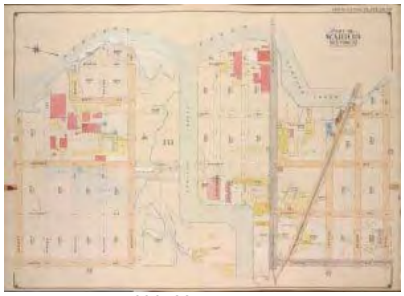

Image ID: 1696788

Brooklyn, Vol. 3, Double Page Plate No. 20; Part of Ward 18, Section 10; [Map bounded by Newtown Creek, Stagg St.; Inclu... (1904)

Image Details

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Atlases of New York city. > Atlas of the borough of Brooklyn, City of New York : the first twenty eight wards complete in four volumes ... : newly constructed and based upon official maps and plans on file in the municipal building and registers office (Hall of Records) supplemented ... / by Hugo Ullitz. > Wards 13, 14, 15, 16, 17, 18, 19, 27 & 28.

Map Division

Collection Guide

Library Catalog Record

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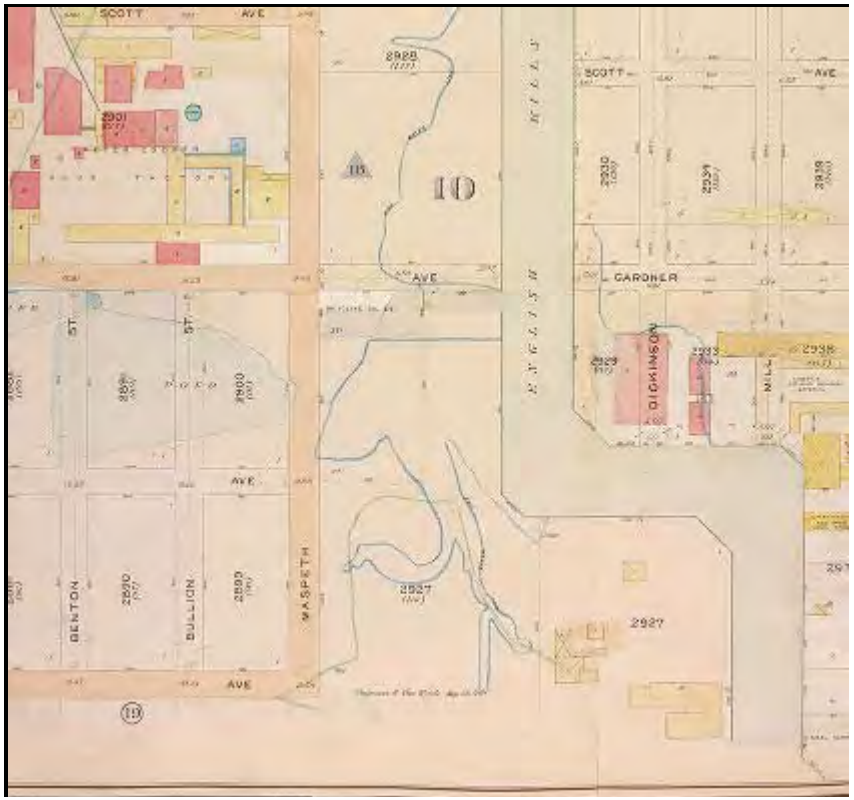
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AVE
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Plate 036 - Wards 16 and 18 - Se..., Brooklyn 1916 Vol 1 Part 2 Revis...

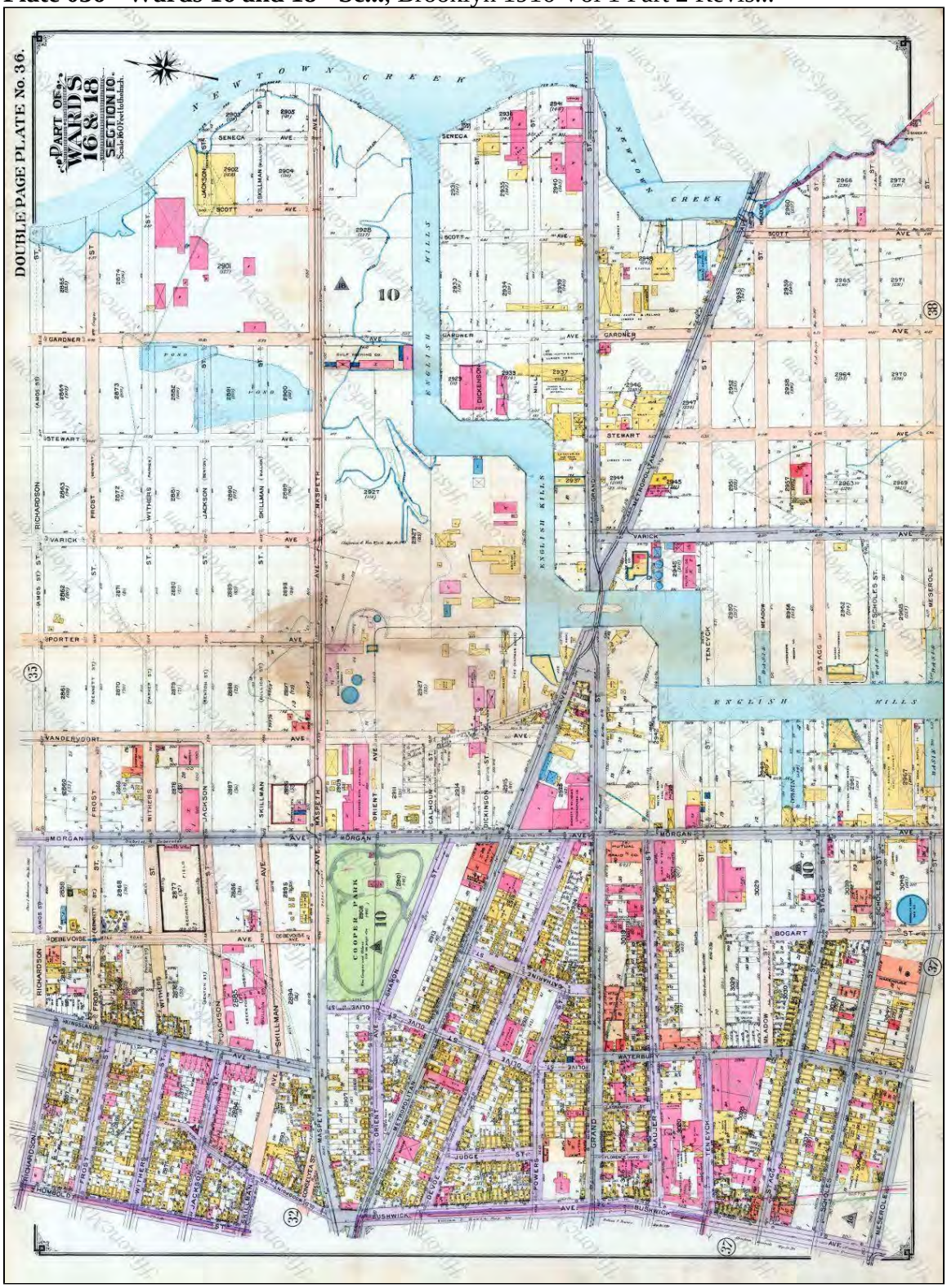

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Plate 036 - Wards 16 and 18 - Section 10

View Atlas: Brooklyn 1916 Vol 1 Part 2 Revised 1921
View State: New York
E. Belcher Hyde Map Co. 1916

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Image Quality: High
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Map Information

Directories in this area

Brooklyn New York City Directory
Greenwood Cemetery - Brooklyn 1857 Directory

1924 Equity MGP Historic Aerial

[NYCityMap]

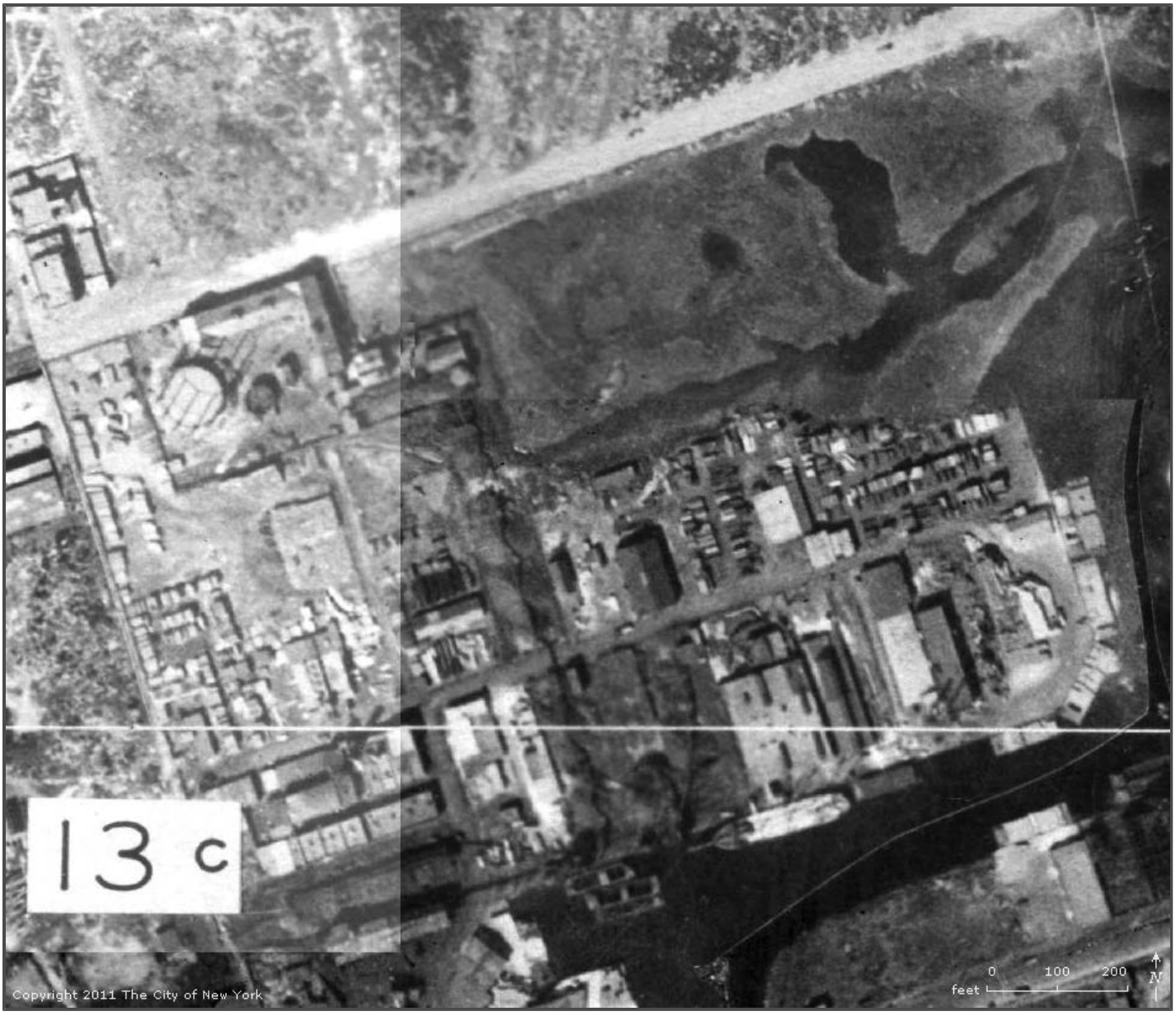

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Plate 041
Brooklyn 1929 Vol 2

New York, US
E. Belcher Hyde Map Co. Inc. 1929

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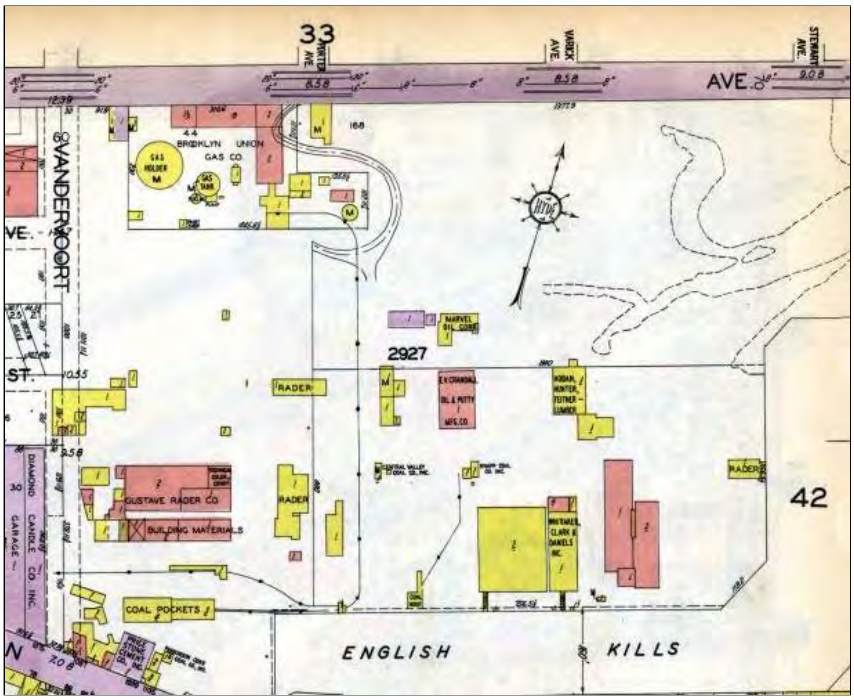

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Plate 041

View Atlas: Brooklyn 1929 Vol 2
View State: New York
E. Belcher Hyde Map Co. Inc. 1929

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Image Quality: High
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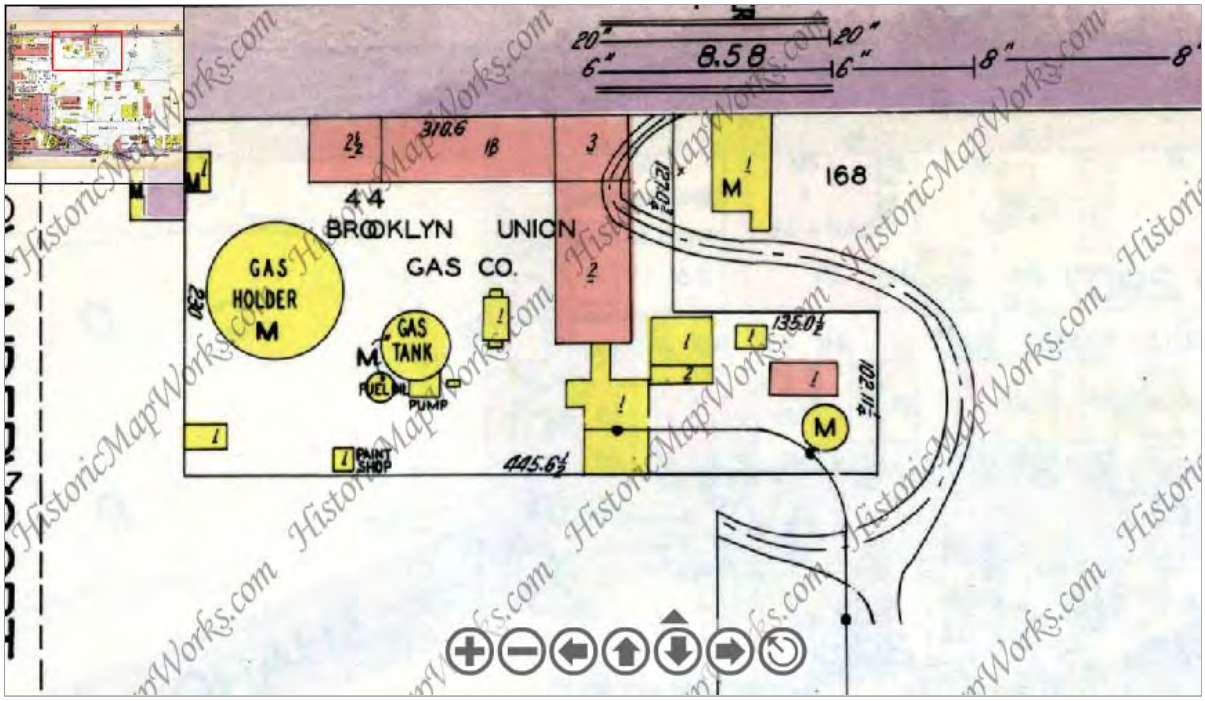

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Map Information

Directories in this area
Brooklyn New York City Directory
Greenwood Cemetery - Brooklyn 1857 Directory

Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Inquiry Number: 3124384.4
July 18, 2011

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440 Wheelers Farms Road
Milford, CT 06461
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Date EDR Searched Historical Sources:

Aerial Photography July 18, 2011

Target Property:

300 Maspeth Ave

Brooklyn, NY 11211

Year	***Scale***	***Details***	***Source***
1954	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: January 04, 1954	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: February 23, 1966	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 01, 1975	EDR
1984	Aerial Photograph. Scale: 1"=750'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 27, 1984	EDR
1994	Aerial Photograph. Scale: 1"=750'	Panel #: 40073-F8, Brooklyn, NY;/Flight Date: April 04, 1994	EDR
1994,1995	Aerial Photograph. Scale: 1"=604'	Panel #: 40073-F8, Brooklyn, NY;/Composite DOQQ - acquisition dates: April 04, 1994,March 13, 1995	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=604'	Panel #: 40073-F8, Brooklyn, NY;/Flight Year: 2008	EDR


INQUIRY #: 3124384.4
YEAR: 1954
= 500'
N


INQUIRY #: 3124384.4
YEAR: 1966
= 500'
N


INQUIRY #: 3124384.4
YEAR: 1975
= 750'
N


INQUIRY #: 3124384.4
YEAR: 1984
= 750'
N


INQUIRY #: 3124384.4
YEAR: 1994
= 750'
N


INQUIRY #: 3124384.4
YEAR: 1994,1995 (DOQQ)
= 604'
N


INQUIRY #: 3124384.4
YEAR: 2006
= 604'
N


INQUIRY #: 3124384.4
YEAR: 2008
= 604'
N

Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Inquiry Number: 3124384.5
July 15, 2011

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
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800.352.0050
www.edrnet.com

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SECTION

Executive Summary

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2005. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	*Source*	*TP*	*Adjoining*	*Text Abstract*	*Source Image*
2005	Hill-Donnelly Corporation	-	-	-	-
2000	Cole Information Services	X	-	X	-
1997	NYNEX	X	-	X	-
1992	NYNEX Informantion Resource Co.	-	-	-	-
1985	NYNEX Information Resources Company	-	-	-	-
1980	New York Telephone	-	-	-	-
1976	New York Telephone	X	-	X	-
1973	New York Telephone	X	-	X	-
1970	New York Telephone	X	-	X	-
1965	New York Telephone	X	-	X	-
1960	New York Telephone	X	-	X	-
1949	New York Telephone	-	-	-	-
1945	New York Telephone	-	-	-	-
1940	New York Telephone	-	-	-	-
1934	R. L. Polk & Co.	-	X	X	-
1928	New York Telephone	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

300 Maspeth Ave
Brooklyn, NY 11211

FINDINGS DETAIL

Target Property research detail.

Year	*Uses*	*Source*
2000	HAY TRCK & TRLR RPR	Cole Information Services
1997	Hay Brothers Truck & Trailer Repair	NYNEX
1976	BRANCH MOTOR EXPRESS CO SPECIAL COMMODITY DIVISION	New York Telephone
1973	Branch Motor Express Co	New York Telephone
	Termnl	New York Telephone
1970	BRANCH MOTOR EXPRESS CO	New York Telephone
1965	Branch Express Co	New York Telephone
	Branch Motor Exprss Co	New York Telephone
1960	BRANCH EXPRESS CO	New York Telephone
	BRANCH MOTOR EXPRSS CO	New York Telephone
	Branch Express Co	New York Telephone Company
	Branch Motor Exprss Co	New York Telephone Company

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

MASPETH AVE

339 MASPETH AVE

Year	*Uses*	*Source*
1934	AUSTIN RALPH MGR GULF REFG CO	R. L. Polk & Co.
	GUIF RELINING (MAIN OFFICE	R. L. Polk & Co.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
300 Maspeth Ave	2005, 1992, 1985, 1980, 1949, 1945, 1940, 1934, 1928

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
339 MASPETH AVE	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928

Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Inquiry Number: 3124384.6s
July 15, 2011

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

300 MASPETH AVE
BROOKLYN, NY 11211

COORDINATES

Latitude (North):	40.717100 - 40° 43' 1.6''
Longitude (West):	73.932100 - 73° 55' 55.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	590198.1
UTM Y (Meters):	4507690.0
Elevation:	10 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2006, 2008
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
FEDEX GROUND PACKAGE SYSTEM, INC. 300 MASPETH AVENUE BROOKLYN, NY 11211	UST HIST UST	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
FEDEX GROUND PACKAGE SYSTEM INC 300 MASPETH AVE BROOKLYN, NY 11211	FINDS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH 300 MASPETH BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH RD 300 MASPETH RD BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
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300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE GREENPOINT, NY	HMIRS	N/A
X ADJACENT TO 300 MASPETH A BROOKLYN, NY	NY Spills Date Closed: 12/12/2007	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
FEDEX 300 MASPETH AVE BROOKLYN, NY	LTANKS Date Closed: 12/22/2005	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH 300 MASPETH BROOKLYN, NY	HMIRS	N/A
300 MASPETH 300 MASPETH BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
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300 MASPETH 300 MASPETH BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
FEDEX FACILITY 300 MASPETH AVE BROOKLYN, NY	NY Spills Date Closed: 12/12/2008	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
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300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE. 300 MASPETH AVE. BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
ROADWAY PACKAGE SYSTEM INC 300 MASPETH AVE BROOKLYN, NY 11211	RCRA-NonGen FINDS	NY0000092858
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPEH AVE 300 MASPEH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE. 300 MASPETH AVE. BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE KINGS, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11208	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
BUTLER FLEET 300 MASPETH AVE BROOKLYN, NY 11211	RCRA-NonGen FINDS	NYD987020591
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
FEDEX 300 MASPETH AVE BROOKLYN, NY	NY Spills Date Closed: 12/22/2005	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE. 300 MASPETH AVE. BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH 300 MASPETH BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE GREENPOINT, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

EXECUTIVE SUMMARY

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY 11211	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A

300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVE 300 MASPETH AVE BROOKLYN, NY	HMIRS	N/A
300 MASPETH AVENUE 300 MASPETH AVENUE BROOKLYN, NY	HMIRS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Registry of Engineering Controls
INST CONTROL ---------- Registry of Institutional Controls
RES DECL ---------- Restrictive Declarations Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP ---------- Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
SWTIRE ---------- Registered Waste Tire Storage & Facility List
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
US HIST CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST AST ---------- Historical Petroleum Bulk Storage Database

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

LUCIS ---------- Land Use Control Information System

Other Ascertainable Records

DOT OPS ---------- Incident and Accident Data
DOD ---------- Department of Defense Sites
FUDS ---------- Formerly Used Defense Sites
CONSENT ---------- Superfund (CERCLA) Consent Decrees
ROD ---------- Records Of Decision
UMTRA ---------- Uranium Mill Tailings Sites
MINES ---------- Mines Master Index File
TRIS ---------- Toxic Chemical Release Inventory System
TSCA ---------- Toxic Substances Control Act
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ---------- Section 7 Tracking Systems
ICIS ---------- Integrated Compliance Information System
PADS ---------- PCB Activity Database System
MLTS ---------- Material Licensing Tracking System
RADINFO ---------- Radiation Information Database
RAATS ---------- RCRA Administrative Action Tracking System
UIC ---------- Underground Injection Control Wells
DRYCLEANERS ---------- Registered Drycleaners
NPDES ---------- State Pollutant Discharge Elimination System
AIRS ---------- Air Emissions Data
E DESIGNATION ---------- E DESIGNATION SITE LISTING
INDIAN RESERV ---------- Indian Reservations
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER ---------- PCB Transformer Registration Database
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
COAL ASH ---------- Coal Ash Disposal Site Listing
FINANCIAL ASSURANCE ---------- Financial Assurance Information Listing
COAL ASH DOE ---------- Sleam-Electric Plan Operation Data

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/31/2011 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK	*SOUTH END OF IVY HILL R*	*SSE 0 - 1/8 (0.064 mi.)*	*I347*	*264*

Proposed NPL: Proposed NPL sites . The source of this database is the U.S. EPA.

A review of the Proposed NPL list, as provided by EDR, and dated 03/31/2011 has revealed that there is 1 Proposed NPL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK	*SOUTH END OF IVY HILL R*	*SSE 0 - 1/8 (0.064 mi.)*	*I347*	*264*

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING, INC.	*360 MASPETH AVENUE*	*ENE 0 - 1/8 (0.020 mi.)*	*B320*	*143*

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN CREEK	*SOUTH END OF IVY HILL R*	*SSE 0 - 1/8 (0.064 mi.)*	*I347*	*264*

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List

(NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are 5 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BKLYN UNION GAS /MASPETH GATE	285 MASPETH AVE	0 - 1/8 (0.000 mi.)	C308	119
BKLYN UNION GAS /EQUITY WORKS	MASPETH & MORGAN AVE	0 - 1/8 (0.000 mi.)	C309	120
TANKS-A-LOT CO	362 MASPETH AVE	ENE 0 - 1/8 (0.024 mi.)	B325	188
BKLYN UNION GAS/VARICK GATE ST	438 VARICK AVE	NNW 0 - 1/8 (0.122 mi.)	O386	431
BKLYN UNION GAS /GREENPOINT EN	287 MASPETH AVE	NNW 1/8 - 1/4 (0.139 mi.)	O412	616

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/09/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUANTA RESOURCES CORP	***37-80 REVIEW AVE***	***NNW 1/2 - 1 (0.890 mi.)***	***AM530***	***1072***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/11/2011 has revealed that there are 7 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - MANHOLE 13123	184 MASPETH AVE	WSW 0 - 1/8 (0.119 mi.)	K375	372
CON EDISON - MANHOLE 62932	344 MORGAN AVE	WSW 1/8 - 1/4 (0.138 mi.)	Q401	506
GREENPOINT ENERGY CENTER	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O408***	***514***
JOSEPH H LOWENSTEIN CO	***420 MORGAN AVE.***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S427***	***707***
CON EDISON - MANHOLE 15338	993 METROPOLITAN AVE	WSW 1/8 - 1/4 (0.184 mi.)	T428	727
CON EDISON - MANHOLE 260	MORGAN AVE & MAUJER ST	SSW 1/8 - 1/4 (0.205 mi.)	W443	791
CON EDISON - MANHOLE 260	240 MORGAN AVE	SSW 1/8 - 1/4 (0.220 mi.)	W452	836

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/11/2011 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DITMAS TERMINAL - 364 MASPETH	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B327***	***191***
NATIONAL GRID	370 VANDERVOORT AVE	W 0 - 1/8 (0.057 mi.)	H346	262
SIGNS & DECAL CORP.	***410 MORGAN AVENUE***	***W 1/8 - 1/4 (0.160 mi.)***	***S423***	***677***
CONSOLIDATED PACKAGING GROUP	***1250 METROPOLITAN AVE***	***SE 1/8 - 1/4 (0.197 mi.)***	***U435***	***742***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/11/2011 has revealed that there are 4 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCDEP - GENERAL STOREHOUSE #1	***1201 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.144 mi.)***	***L415***	***630***
CON EDISON	GARDNER AVE & METROPOLI	SE 1/8 - 1/4 (0.229 mi.)	U460	911

Lower Elevation	Address	Direction / Distance	Map ID	Page
MANHATTAN POLY BAG CORP	***1150 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.113 mi.)***	***I366***	***331***
ROADWAY EXPRESS	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X459***	***899***

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 05/24/2011 has revealed that there are 9 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
Class Code: Significant threat to the public health or environment - action required.				
FORMER KLINK COSMO CLEANERS	364 RICHARDSON STREET	NW 1/8 - 1/4 (0.240 mi.)	464	926
Class Code: Significant threat to the public health or environment - action required.				
ACME STEEL/METAL WORKS	95 LOMBARDY STREET	NNW 1/4 - 1/2 (0.366 mi.)	485	980
Class Code: Significant threat to the public health or environment - action required.				

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ACME STEEL/BRASS FOUNDRY	72 ANTHONY STREET	NNW 1/4 - 1/2 (0.411 mi.)	499	1009
Class Code: Significant threat to the public health or environment - action required.				
FORMER SPIC AND SPAN CLEANERS	315 KINGSLAND AVENUE	NNW 1/2 - 1 (0.778 mi.)	526	1062
Class Code: Significant threat to the public health or environment - action required.				
TECHNICAL METAL FINISHERS	***214 STARR STREET***	***SSE 1/2 - 1 (0.848 mi.)***	***AL528***	***1066***
QUANTA RESOURCES	***37-80 REVIEW AVENUE***	***NNW 1/2 - 1 (0.890 mi.)***	***AM529***	***1068***
Class Code: Significant threat to the public health or environment - action required.				
FORMER W.L.K. CORP.	58-30 57TH STREET	ENE 1/2 - 1 (0.900 mi.)	531	1085
Class Code: Significant threat to the public health or environment - action required.				

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHELPS DODGE REFINING CORPORAT	42-02 56TH ROAD	NNE 1/2 - 1 (0.628 mi.)	525	1059
Class Code: Significant threat to the public health or environment - action required.				

VAPOR REOPENED: "Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil. Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

A review of the VAPOR REOPENED list, as provided by EDR, and dated 09/14/2010 has revealed that there is 1 VAPOR REOPENED site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUANTA RESOURCES	***37-80 REVIEW AVENUE***	***NNW 1/2 - 1 (0.890 mi.)***	***AM529***	***1068***

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 04/14/2011 has revealed that there are 31 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW YORK RECYCLERS; INC. (MASP	340 MASPETH AVENUE	0 - 1/8 (0.000 mi.)	B298	91
FONTANA TRANSFER STATION	252 MASPETH AVENUE	0 - 1/8 (0.000 mi.)	D310	120
BCF OIL REFINING INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B316***	***132***
COOPER TANK (222 MASPETH)	***222 MASPETH AVENUE***	***WSW 0 - 1/8 (0.038 mi.)***	***F335***	***237***
MS POWER INC	187 MASPETH VE	WSW 0 - 1/8 (0.077 mi.)	F349	271
MAGNUM BODY SHOP INC	185A MASPETH AVE	WSW 0 - 1/8 (0.100 mi.)	K355	282
NEW TOWN AUTO SALES & AUTO PAR	1074 GRAND STREET	S 0 - 1/8 (0.121 mi.)	J379	381
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
WASTE MANAGEMENT NY (VARICK 1)	***215 VARICK AVENUE***	***SSE 1/8 - 1/4 (0.200 mi.)***	***V436***	***771***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DURITE S&V & MAINT. CORP.	250 MORGAN AVE	SSW 1/8 - 1/4 (0.203 mi.)	W440	784
WASTE MANAGEMENT OF NY (232 GA	***232 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.216 mi.)***	***U450***	***830***
CASALINO INTERIOR DEMOLITION	***213 MEADOW ST***	***SSE 1/4 - 1/2 (0.255 mi.)***	***466***	***931***
BFI	***222 MORGAN AVE***	***SSW 1/4 - 1/2 (0.259 mi.)***	***AA468***	***935***
WASTE MANAGEMENT OF NY; INC. (	1301 METROPOLITAN AVENU	SE 1/4 - 1/2 (0.262 mi.)	469	938
KARNAK (NEWTOWN METAL CORP.)	202 MORGAN AVENUE	S 1/4 - 1/2 (0.312 mi.)	AB475	956
BFI (575 SCHOLES STREET)	***575 SCHOLES STREET***	***SE 1/4 - 1/2 (0.394 mi.)***	***AF490***	***993***
GADS; INC.	594 SCHOLES STREET	SE 1/4 - 1/2 (0.403 mi.)	AF495	1004
HI-TECH RESOURCE RECOVERY	***130 VARICK AVENUE***	***SSE 1/4 - 1/2 (0.404 mi.)***	***AH497***	***1005***
GOTCHA AUTO INC	521 VARICK AVE	NNW 1/4 - 1/2 (0.414 mi.)	502	1015
CITY RECYCLING	***151 ANTHONY STREET***	***NNW 1/4 - 1/2 (0.417 mi.)***	***503***	***1016***
WASTE MANAGEMENT NY 123	***123 VARICK AVENUE***	***SSE 1/4 - 1/2 (0.453 mi.)***	***AH511***	***1031***
WASTE MANAGEMENT OF NY; LLC	123 VARICK AVENUE	SSE 1/4 - 1/2 (0.453 mi.)	AH512	1032
N.Y. CARTING CO. INC.	137 CHERRY STREET	N 1/4 - 1/2 (0.471 mi.)	AK515	1038
PURE BURN; INC.	530 GARDNER AVENUE	N 1/4 - 1/2 (0.483 mi.)	AK520	1054
MASPETH RECYCLING CIPICO	58-08 48 STREET	ENE 1/4 - 1/2 (0.483 mi.)	521	1054
ASTORIA CARTING	538 STEWART AVENUE	NNW 1/4 - 1/2 (0.488 mi.)	522	1055
J.D.F. TRANSFER INC.	548 VARICK STREET	NNW 1/4 - 1/2 (0.496 mi.)	523	1055

Lower Elevation	Address	Direction / Distance	Map ID	Page
M & C TRANSFER STATION;INC.	58-26 47 STREET	ENE 1/4 - 1/2 (0.360 mi.)	AD484	979
PEBBLE LANE ASSOCIATES	57-05 47TH STREET	ENE 1/4 - 1/2 (0.404 mi.)	AD496	1004
METRO AUTO SAVAGE & SALES, INC	***4600 METROPOLITAN AVE***	***ESE 1/4 - 1/2 (0.420 mi.)***	***AI505***	***1018***
AVALANCHE CONTRACTING; INC. (C	46-26 METROPOLITAN AVEN	ESE 1/4 - 1/2 (0.436 mi.)	AI507	1019

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 05/24/2011 has revealed that there are 44 LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING Date Closed: 9/2/2003	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B319***	***140***
BCF REFINING Date Closed: 9/2/2003	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B322***	***181***
IN PARKING LOT Date Closed: 4/24/2006	364 MASPETH AVENUE	ENE 0 - 1/8 (0.028 mi.)	B329	201
STERLING OPTICAL Date Closed: 3/5/2003	***1105 METROPOLITAN AV***	***S 0 - 1/8 (0.078 mi.)***	***J350***	***271***
1101 METROPOLITIAN AVE Date Closed: 5/17/2006	***1101 METROPOLITIAN AVE***	***SSW 0 - 1/8 (0.078 mi.)***	***J351***	***274***
K - GREENPOINT MGP - ENERGY CE Date Closed: 3/4/2003 Date Closed: 2/6/2007	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
430 MASPETH AVE. Date Closed: 7/3/1997	***430 MASPETH AVE.***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P417***	***644***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSF H LOWENSTEIN & SON Date Closed: 8/16/2003	***420 MORGAN AVE***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S425***	***693***
ABANDONED BLDG Date Closed: 6/4/2003	430 MORGAN AVE	WNW 1/8 - 1/4 (0.186 mi.)	S430	730
1251 METROPOLITAN AVE. / Date Closed: 3/25/1987	***1251 METROPOLITAN AVE.***	***SE 1/8 - 1/4 (0.191 mi.)***	***U431***	***731***
MANYA CORPORATION F.K.A. KALEX Date Closed: 7/17/1994 Date Closed: 10/2/1992	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U446***	***804***
235 GARDNER AV/CALA Date Closed: 7/6/2004	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U447***	***812***
MANYA CORPORATION F.K.A KALEX Date Closed: 10/7/2005	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U449***	***824***
222 MORGAN AVENUE Date Closed: 1/17/1994	***222 MORGAN AVENUE***	***SSW 1/4 - 1/2 (0.259 mi.)***	***AA467***	***932***
BFI Date Closed: 8/28/2003	***222 MORGAN AVE***	***SSW 1/4 - 1/2 (0.259 mi.)***	***AA468***	***935***
COOPER PARK HOUSES Date Closed: 3/29/1996 Date Closed: 6/10/2008	***295 JACKSON STREET***	***W 1/4 - 1/2 (0.278 mi.)***	***Z470***	***939***
COOPER PARK HOUSING Date Closed: 9/14/2009	***295 JACKSON ST***	***W 1/4 - 1/2 (0.278 mi.)***	***Z471***	***948***
APT BUILDING TANK Date Closed: 12/9/2005	85 MEADOW STREET	S 1/4 - 1/2 (0.289 mi.)	AA472	951
345 TENEYCK STREET Date Closed: 12/1/1992	***345 TENEYCK STREET***	***SSW 1/4 - 1/2 (0.290 mi.)***	***473***	***952***
308 MAUJER ST Date Closed: 1/31/2006	308 MAUJER ST	SW 1/4 - 1/2 (0.327 mi.)	477	966
DEPT OF SANITATION SITE Date Closed: 10/16/2003	161 VARICK AVE	SSE 1/4 - 1/2 (0.347 mi.)	AC481	975
APARTMENT BUILDING Date Closed: 8/29/2006	35 MEADOW STREET	SSW 1/4 - 1/2 (0.352 mi.)	482	976
RESIDENCE Date Closed: 2/4/2005	243 JACKSON STREET	W 1/4 - 1/2 (0.358 mi.)	483	978
211 LOMBARDI ST/BKLY/ACME Date Closed: 10/7/1992	***211 LOMBARDI STREET***	***NNW 1/4 - 1/2 (0.367 mi.)***	***486***	***982***
J & M AUTO REPAIRS Date Closed: 7/21/2008	***881-885 GRAND ST***	***SW 1/4 - 1/2 (0.367 mi.)***	***487***	***984***
BUSINESS Date Closed: 1/25/2006	32 BEADEL STREET	NW 1/4 - 1/2 (0.374 mi.)	488	989
251 LOMBARDI ST Date Closed: 1/19/1999	***251 LOMBARDI ST***	***N 1/4 - 1/2 (0.380 mi.)***	***AE489***	***990***
APT COMPLEX Date Closed: 3/24/2004	349 SCHOLES ST	S 1/4 - 1/2 (0.397 mi.)	AG492	999
57-47 47TH STREET Date Closed: 10/2/1992	***57-47 47TH ST***	***ENE 1/4 - 1/2 (0.405 mi.)***	***498***	***1006***
NYC DEPT SANITATION Date Closed: 7/9/2008	48-01 58 ROAD	ENE 1/4 - 1/2 (0.412 mi.)	501	1014

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXXON STATION	***546 MORGAN AV***	***NW 1/4 - 1/2 (0.436 mi.)***	***509***	***1020***
Date Closed: 1/9/1997				
WASTE MANAGMENT OF NY	***123 VARICK AVE***	***SSE 1/4 - 1/2 (0.453 mi.)***	***AH510***	***1027***
810 METROPOLITAN AVE	***810 METROPOLITAN AVENUE***	***WSW 1/4 - 1/2 (0.465 mi.)***	***AJ513***	***1033***
Date Closed: 11/22/1994				
25 BUSHWICK AVE	***25 BUSHWICK AVE***	***WSW 1/4 - 1/2 (0.466 mi.)***	***514***	***1036***
Date Closed: 7/4/1999				
METROPOLITAN AVE/MERRIT	***METROPOLITAN&BUSHWICK A***	***WSW 1/4 - 1/2 (0.471 mi.)***	***AJ516***	***1039***
Date Closed: 7/10/1989				
SHELL	***2 BUSHWICK AVENUE***	***WSW 1/4 - 1/2 (0.473 mi.)***	***AJ517***	***1041***
Date Closed: 4/30/1991				
140 MORGAN AVE/BROOKLYN	***140 MORGAN AVENUE***	***S 1/4 - 1/2 (0.473 mi.)***	***518***	***1050***
Date Closed: 2/3/1990				
EMEQUIFT CHEMICAL CORP - MISC	100 VARICK AVE	SSE 1/4 - 1/2 (0.476 mi.)	519	1052
Date Closed: 5/31/2006				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED CARPET	***1157 GRAND ST***	***SSE 0 - 1/8 (0.106 mi.)***	***L358***	***288***
Date Closed: 2/7/2006				
NYC F.D.ENGINE CO.206	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N372***	***364***
UB DISTRIBUTORS	***1213 GRAND ST***	***SE 0 - 1/8 (0.124 mi.)***	***N388***	***434***
Date Closed: 5/15/2002				
ROADWAY EXPRESS INC	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X457***	***864***
Date Closed: 10/7/1992				
ST. JOHN'S BERRY TRUCKING	***55090 47TH STREET***	***ENE 1/4 - 1/2 (0.400 mi.)***	***493***	***1000***
Date Closed: 12/29/2005				
ISLAND TRANS CORP	5700 47TH STREET	ENE 1/4 - 1/2 (0.403 mi.)	AD494	1002
Date Closed: 12/28/2007				

HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 32 HIST LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STERLING OPTICAL	***1105 METROPOLITAN AV***	***S 0 - 1/8 (0.078 mi.)***	***J350***	***271***
Date Closed: / /				
1101 METROPOLITIAN AVE	***1101 METROPOLITIAN AVE***	***SSW 0 - 1/8 (0.078 mi.)***	***J351***	***274***
Date Closed: / /				
1100 GRAND ST/BKLYN/CIBRO	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
Date Closed: / /				
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
Date Closed: / /				
Date Closed: / /				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
430 MASPETH AVE. Date Closed: / /	***430 MASPETH AVE.***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P417***	***644***
JOSF H LOWENSTEIN & SON Date Closed: / /	***420 MORGAN AVE***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S425***	***693***
1251 METROPOLITAN AVE. / Date Closed: 03/25/87	***1251 METROPOLITAN AVE.***	***SE 1/8 - 1/4 (0.191 mi.)***	***U431***	***731***
MANYA CORPORATION F.K.A. KALEX Date Closed: 10/02/92 Date Closed: 07/17/94	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U446***	***804***
235 GARDNER AV/CALA Date Closed: / /	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U447***	***812***
MANYA CORPORATION F.K.A KALEX Date Closed: / /	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U449***	***824***
BFI Date Closed: / /	***222 MORGAN AVE***	***SSW 1/4 - 1/2 (0.259 mi.)***	***AA468***	***935***
COOPER PARK HOUSES Date Closed: 03/29/96 Date Closed: / /	***295 JACKSON STREET***	***W 1/4 - 1/2 (0.278 mi.)***	***Z470***	***939***
COOPER PARK HOUSING Date Closed: / /	***295 JACKSON ST***	***W 1/4 - 1/2 (0.278 mi.)***	***Z471***	***948***
345 TENEYCK STREET Date Closed: 12/01/92	***345 TENEYCK STREET***	***SSW 1/4 - 1/2 (0.290 mi.)***	***473***	***952***
SUNOCO S/S - BKLN Date Closed: / /	51 KINGSLAND AV	W 1/4 - 1/2 (0.336 mi.)	480	974
211 LOMBARDI ST/BKLY/ACME Date Closed: 10/07/92	***211 LOMBARDI STREET***	***NNW 1/4 - 1/2 (0.367 mi.)***	***486***	***982***
J & M AUTO REPAIRS Date Closed: / /	***881-885 GRAND ST***	***SW 1/4 - 1/2 (0.367 mi.)***	***487***	***984***
251 LOMBARDI ST Date Closed: 01/19/99	***251 LOMBARDI ST***	***N 1/4 - 1/2 (0.380 mi.)***	***AE489***	***990***
57-47 47TH STREET Date Closed: 10/02/92	***57-47 47TH ST***	***ENE 1/4 - 1/2 (0.405 mi.)***	***498***	***1006***
EXXON STATION Date Closed: 01/09/97	***546 MORGAN AV***	***NW 1/4 - 1/2 (0.436 mi.)***	***509***	***1020***
WASTE MANAGMENT OF NY Date Closed: / /	***123 VARICK AVE***	***SSE 1/4 - 1/2 (0.453 mi.)***	***AH510***	***1027***
810 METROPOLITAN AVE Date Closed: 11/22/94	***810 METROPOLITAN AVENUE***	***WSW 1/4 - 1/2 (0.465 mi.)***	***AJ513***	***1033***
25 BUSHWICK AVE Date Closed: 07/04/99	***25 BUSHWICK AVE***	***WSW 1/4 - 1/2 (0.466 mi.)***	***514***	***1036***
METROPOLITAN AVE/MERRIT Date Closed: 07/10/89	***METROPOLITAN&BUSHWICK W***	***WSW 1/4 - 1/2 (0.471 mi.)***	***AJ516***	***1039***
SHELL Date Closed: 04/30/91	***2 BUSHWICK AVENUE***	***WSW 1/4 - 1/2 (0.473 mi.)***	***AJ517***	***1041***
140 MORGAN AVE/BROOKLYN Date Closed: 02/03/90	***140 MORGAN AVENUE***	***S 1/4 - 1/2 (0.473 mi.)***	***518***	***1050***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONSOLIDATED CARPET Date Closed: / /	***1157 GRAND ST***	***SSE 0 - 1/8 (0.106 mi.)***	***L358***	***288***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYC F.D.ENGINE CO.206 Date Closed: / /	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N372***	***364***
UB DISTRIBUTORS Date Closed: / /	***1213 GRAND ST***	***SE 0 - 1/8 (0.124 mi.)***	***N388***	***434***
46-25 METROPOLITAN AVE Date Closed: / /	***46025 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.124 mi.)***	***L390***	***448***
ROADWAY EXPRESS INC Date Closed: 10/07/92	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X457***	***864***
ST. JOHN'S BERRY TRUCKING Date Closed: / /	***55090 47TH STREET***	***ENE 1/4 - 1/2 (0.400 mi.)***	***493***	***1000***

State and tribal registered storage tank lists

TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the TANKS list, as provided by EDR, and dated 04/05/2011 has revealed that there is 1 TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GREENPOINT SERVICE CENTER	287 MASPETH AVENUE	NNW 1/8 - 1/4 (0.139 mi.)	O407	513

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 04/05/2011 has revealed that there are 29 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABF FREIGHT SYSTEM	***320 MASPETH AVE***	***0 - 1/8 (0.000 mi.)***	***B299***	***92***
GASETERIA OIL CORP. OFFICE	364 MASPETH AVENUE	ENE 0 - 1/8 (0.028 mi.)	B331	228
GREEN HILLS (USA), LLC	2 REWE STREET	WSW 0 - 1/8 (0.042 mi.)	E336	238
1 REWE STREET	***1 REWE STREET***	***WSW 0 - 1/8 (0.042 mi.)***	***E337***	***241***
307 VANDERVOORT AVE	***307 VANDERVOORT AVENUE***	***WSW 0 - 1/8 (0.049 mi.)***	***G340***	***250***
L & H ASSOCIATES C/O TROON MGM	***1101-1107 METROPOLITAN***	***S 0 - 1/8 (0.076 mi.)***	***J348***	***267***
GRAND PETROLEUM, LLC	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J381***	***384***
ABF FREIGHT SYSTEM, INC.	***414 MASPETH AVE***	***ENE 1/8 - 1/4 (0.126 mi.)***	***P394***	***456***
RIGHT-WAY DEALER WAREHOUSE INC	***1202 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.150 mi.)***	***L416***	***638***
TRANSCON LINES	***430 MASPETH AVE***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P418***	***647***
BUSINESS	***275 MORGAN AVENUE***	***SW 1/8 - 1/4 (0.159 mi.)***	***R421***	***669***
JOSH LOWENSTEIN & SONS INC	***420 MORGAN AVE***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S426***	***695***
SUNSHINE BISCUITS INC	***1251 METROPOLITAN AVE***	***SE 1/8 - 1/4 (0.191 mi.)***	***U432***	***734***
VIJAX CORPORATION	***210 VARICK AVENUE***	***SSE 1/8 - 1/4 (0.204 mi.)***	***V441***	***785***
MANYA CORPORATION F.K.A KALEX	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U449***	***824***
368 RICHARDSON STREET CORP.	***368 RICHARDSON ST (A.K.***	***NNW 1/8 - 1/4 (0.220 mi.)***	***Y454***	***839***
KG3 REALTY LLC	976 GRAND STREET	SW 1/8 - 1/4 (0.223 mi.)	455	844

Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST TERMINAL, LLC	12 REWE STREET	0 - 1/8 (0.000 mi.)	E303	106

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLINN DRUG CO	***16 REWE ST***	***0 - 1/8 (0.000 mi.)***	***E305***	***111***
8 REWE STREET, LLC	8 REWE STREET	WSW 0 - 1/8 (0.015 mi.)	E312	123
GLOBAL MOVING ASTORAGE	***7 REWE STREET***	***WSW 0 - 1/8 (0.017 mi.)***	***E314***	***127***
1131 GRAND ET IAC	***1131 GRAND STREET***	***SSE 0 - 1/8 (0.103 mi.)***	***I356***	***283***
CONSOLIDATED CARPET TRADE WORK	***1181 GRAND STREET***	***SSE 0 - 1/8 (0.107 mi.)***	***L360***	***292***
ENGINE COMPANY 206	1201 GRAND STREET	SE 0 - 1/8 (0.116 mi.)	N373	366
UNION BEER DIST. L.L.C.	***1213-17 GRAND ST***	***SE 0 - 1/8 (0.124 mi.)***	***N389***	***437***
METRO GARAGE INC	***1188 METROPOLITAN AVENU***	***SSE 1/8 - 1/4 (0.138 mi.)***	***L399***	***477***
CHARLES J KING INC	***1301 GRAND ST***	***ESE 1/8 - 1/4 (0.214 mi.)***	***X445***	***794***
ROADWAY EXPRESS	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X456***	***846***
ROADWAY EXPRESS INC	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X457***	***864***

CBS UST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS UST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 CBS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANYA CORPORATION F.K.A. KALEX	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U446***	***804***

MOSF UST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 4 MOSF UST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
1100 GRAND ST/BKLYN/CIBRO	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
MORGAN OIL TERMINALS CORP	***200 MORGAN AVE***	***S 1/4 - 1/2 (0.317 mi.)***	***AB476***	***957***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 04/05/2011 has revealed that there are 18 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S. TOW, INC.	364 MASPETH AVENUE	ENE 0 - 1/8 (0.028 mi.)	B332	231
COOPER TANK & WELDING CORP.	222 MASPETH AVENUE	WSW 0 - 1/8 (0.038 mi.)	F334	235
FRANS' AUTO REPAIR, INC	187 MASPETH AVENUE	WSW 0 - 1/8 (0.096 mi.)	K353	278
DANNA TRANSPORT INC.	185 MASPETH AVENUE	WSW 0 - 1/8 (0.100 mi.)	K354	280

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEWTOWN USED AUTO PARTS/SCRAP	1074 GRAND STREET	S 0 - 1/8 (0.121 mi.)	J380	382
1027 METROPOLITAN AVENUE	1027 METROPOLITAN AVENU	WSW 1/8 - 1/4 (0.136 mi.)	396	469
ATLANTIC FEATHER & FOAM	***330 MORGAN AVE***	***WSW 1/8 - 1/4 (0.137 mi.)***	***Q397***	***471***
EMPIRE TRANSIT MIX INC	430 MASPETH AVENUE	ENE 1/8 - 1/4 (0.158 mi.)	P419	666
SIGNS & DECALS	410 MORGAN AVENUE	W 1/8 - 1/4 (0.160 mi.)	S422	675
JOSH LOWENSTEIN & SONS INC	***420 MORGAN AVE***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S426***	***695***
WASTE MANAGEMENT OF NEW YORK,	215 VARICK AVENUE	SSE 1/8 - 1/4 (0.200 mi.)	V437	772
WASTE MANAGEMENT OF NEW YORK/W	***221 VARICK AVENUE***	***SSE 1/8 - 1/4 (0.200 mi.)***	***V439***	***779***
GOOD-WILL AUTO & TRUCK SERVICE	990 GRAND STREET	SW 1/8 - 1/4 (0.205 mi.)	R442	789
WASTE MANAGEMENT OF NY (232 GA	***232 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.216 mi.)***	***U450***	***830***
JOSEPH R FELLE	***953 METROPOLITAN AVE***	***WSW 1/8 - 1/4 (0.243 mi.)***	***465***	***928***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST TERMINAL, LLC	12 REWE STREET	0 - 1/8 (0.000 mi.)	E304	109
MANHATTAN POLY BAG CORP	***1150 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.113 mi.)***	***I366***	***331***
ENGINE COMPANY 206	***1201 GRAND STREET***	***SE 0 - 1/8 (0.116 mi.)***	***N371***	***356***

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 CBS AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***

MOSF AST: Major Oil Storage Facilities Database. Facilities are licensed pursuant to Article 12 of the Navigation Law, 6 NYCRR Part 610 and 17 NYCRR Part 30. These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater. Includes MOSF's licensed or closed since April 1, 1986, (responsibility was transferred from DOT on October 13, 1985) plus available data obtained from DOT facilities licensed since Article 12 became law on April 1, 1978.

A review of the MOSF AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 4 MOSF AST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
1100 GRAND ST/BKLYN/CIBRO	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***

MOSF: These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

A review of the MOSF list, as provided by EDR, and dated 04/05/2011 has revealed that there are 5 MOSF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
1100 GRAND ST/BKLYN/CIBRO	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
MORGAN OIL TERMINALS CORP	***200 MORGAN AVE***	***S 1/4 - 1/2 (0.317 mi.)***	***AB476***	***957***

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 04/05/2011 has revealed that there are 2 CBS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
MANYA CORPORATION F.K.A. KALEX	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U446***	***804***

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the VCP list, as provided by EDR, and dated 05/24/2011 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUBSTATION	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O403***	***509***

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 05/24/2011 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRITO LAY	202-218 MORGAN AVENUE	S 1/4 - 1/2 (0.312 mi.)	AB474	955

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the SWRCY list, as provided by EDR, and dated 04/14/2011 has revealed that there are 4 SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BFI (575 SCHOLES STREET)	***575 SCHOLES STREET***	***SE 1/4 - 1/2 (0.394 mi.)***	***AF490***	***993***
RAPID PROCESSING LLC (58-35 47	***58-35 47TH STREET***	***E 1/4 - 1/2 (0.411 mi.)***	***500***	***1011***
MESEROLE STREET RECYCLING INC.	***568 MESEROLE STREET***	***SE 1/4 - 1/2 (0.419 mi.)***	***504***	***1017***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COTOIA ENTERPRISES	46-26 METROPOLITAN AVE.	ESE 1/4 - 1/2 (0.436 mi.)	AI508	1019

Local Lists of Hazardous waste / Contaminated Sites

DEL SHWS: A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

A review of the DEL SHWS list, as provided by EDR, and dated 05/24/2011 has revealed that there are 5 DEL SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING, INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B320***	***143***
VARICK AVENUE	165 VARICK AVENUE	SSE 1/4 - 1/2 (0.335 mi.)	AC479	969
CITY BARREL CO.	421-429 MEEKER STREET	W 1/2 - 1 (0.627 mi.)	524	1057
TECHNICAL METAL FINISHERS	214 STARR STREET	SSE 1/2 - 1 (0.848 mi.)	AL527	1064
MOBIL OIL BROOKLYN TERMINAL	300 NORTH HENRY STREET	NNW 1/2 - 1 (0.972 mi.)	532	1087

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 26 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABF FREIGHT SYSTEM	***320 MASPETH AVE***	***0 - 1/8 (0.000 mi.)***	***B299***	***92***
1 REWE STREET	***1 REWE STREET***	***WSW 0 - 1/8 (0.042 mi.)***	***E337***	***241***
307 VANDERVOORT AVE	***307 VANDERVOORT AVENUE***	***WSW 0 - 1/8 (0.049 mi.)***	***G340***	***250***
L & H ASSOCIATES C/O TROON MGM	***1101-1107 METROPOLITAN***	***S 0 - 1/8 (0.076 mi.)***	***J348***	***267***
GRAND PETROLEUM, LLC	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J381***	***384***
ABF FREIGHT SYSTEM, INC.	***414 MASPETH AVE***	***ENE 1/8 - 1/4 (0.126 mi.)***	***P394***	***456***
GREENPOINT ENERGY CENTER	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O408***	***514***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIGHT-WAY DEALER WAREHOUSE INC	***1202 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.150 mi.)***	***L416***	***638***
TRANSCON LINES	***430 MASPETH AVE***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P418***	***647***
BUSINESS	***275 MORGAN AVENUE***	***SW 1/8 - 1/4 (0.159 mi.)***	***R421***	***669***
JOSH LOWENSTEIN & SONS INC	***420 MORGAN AVE***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S426***	***695***
SUNSHINE BISCUITS INC	***1251 METROPOLITAN AVE***	***SE 1/8 - 1/4 (0.191 mi.)***	***U432***	***734***
VIJAX CORPORATION	***210 VARICK AVENUE***	***SSE 1/8 - 1/4 (0.204 mi.)***	***V441***	***785***
MANYA CORPORATION F.K.A KALEX	***235 GARDNER AVENUE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U449***	***824***
368 RICHARDSON STREET CORP.	***368 RICHARDSON ST (A.K.***	***NNW 1/8 - 1/4 (0.220 mi.)***	***Y454***	***839***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLINN DRUG CO	***16 REWE ST***	***0 - 1/8 (0.000 mi.)***	***E305***	***111***
M ADLERS SON INC	8 REWE ST	WSW 0 - 1/8 (0.015 mi.)	E313	126
GLOBAL MOVING ASTORAGE	***7 REWE STREET***	***WSW 0 - 1/8 (0.017 mi.)***	***E314***	***127***
1131 GRAND ET IAC	***1131 GRAND STREET***	***SSE 0 - 1/8 (0.103 mi.)***	***I356***	***283***
CONSOLIDATED CARPET TRADE WORK	***1181 GRAND STREET***	***SSE 0 - 1/8 (0.107 mi.)***	***L360***	***292***
ENGINE COMPANY 206	***1201 GRAND STREET***	***SE 0 - 1/8 (0.116 mi.)***	***N371***	***356***
UNION BEER DIST. L.L.C.	***1213-17 GRAND ST***	***SE 0 - 1/8 (0.124 mi.)***	***N389***	***437***
METRO GARAGE INC	***1188 METROPOLITAN AVENU***	***SSE 1/8 - 1/4 (0.138 mi.)***	***L399***	***477***
CHARLES J KING INC	***1301 GRAND ST***	***ESE 1/8 - 1/4 (0.214 mi.)***	***X445***	***794***
ROADWAY EXPRESS	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X456***	***846***
ROADWAY EXPRESS INC	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X457***	***864***

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/24/2011 has revealed that there are 33 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABF FREIGHT SYSTEM	***320 MASPETH AVE***	***0 - 1/8 (0.000 mi.)***	***B299***	***92***
Date Closed: 11/19/2010				
VACANT PROPERTY	254 MASPETH AVE	0 - 1/8 (0.000 mi.)	D301	103
Date Closed: 9/12/2006				
250 MASPETH AVE	***250 MASPETH AVE***	***0 - 1/8 (0.000 mi.)***	***D307***	***117***
Date Closed: 4/28/1993				
BCF OIL REFINING INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B316***	***132***
Date Closed: 9/2/2003				
BCF OIL	***360 MASTETH AV***	***ENE 0 - 1/8 (0.020 mi.)***	***B317***	***135***
Date Closed: 9/2/2003				
BCF OIL REFINERY, INC	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B318***	***137***
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
Date Closed: 6/10/1987				
Date Closed: 2/16/1990				
**Additional key fields are available in the Map Findings section*				
DITMAS OIL COMPANY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B326***	***189***
Date Closed: 10/12/1992				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GASETERIA OIL CORP Date Closed: 9/19/2003	***364 MASPETH AV***	***ENE 0 - 1/8 (0.028 mi.)***	***B328***	***199***
DITMAS OIL COMAPNY Date Closed: 2/5/1991	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
Not reported Date Closed: 3/3/2003	***301 VANDERVOORT PL***	***WSW 0 - 1/8 (0.048 mi.)***	***G339***	***248***
Not reported Date Closed: 2/12/2003	***MASPETH AV/VANDERVOORT***	***WSW 0 - 1/8 (0.051 mi.)***	***F341***	***254***
5 OZ OIL IN SOIL AT POLE 15537 Date Closed: 6/28/2007	MASPETH AVENUE & VANDER	WSW 0 - 1/8 (0.051 mi.)	F342	256
ONE PINT OIL IN SOIL AT POLE 1 Date Closed: 6/28/2007	MASPETH AVE & VANDERVOO	WSW 0 - 1/8 (0.051 mi.)	F343	257
MASPETH AVE & VANDERVOORT Date Closed: 2/3/1994	***MASPETH AVE & VANDERVOO***	***WSW 0 - 1/8 (0.051 mi.)***	***F344***	***259***
TWENTY GAL OIL IN EXCAVATION Date Closed: 11/17/2008	MASPETH AVE & VANDERVOO	WSW 0 - 1/8 (0.051 mi.)	F345	261
1100 GRAND ST/BKLYN/CIBRO Date Closed: 3/25/2009 Date Closed: 3/25/2009	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
METROPOLITAIN AVE & GRAND Date Closed: 8/25/1997	***METROPOLITAIN AVE & GRA***	***SSE 0 - 1/8 (0.113 mi.)***	***I367***	***346***
VANDERVOORT AVE/GRANT ST Date Closed: 11/12/1999	***VANDERVOORT AVE/GRANT S***	***S 0 - 1/8 (0.118 mi.)***	***J374***	***369***
GASETERIA OIL CORP. Date Closed: 1/17/2006	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J382***	***410***
Not reported Date Closed: 8/11/2003	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J383***	***414***

Lower Elevation	Address	Direction / Distance	Map ID	Page
12 REWE ST/BROOKLYN Date Closed: 3/30/1995	***12 REWE STREET***	***0 - 1/8 (0.000 mi.)***	***E302***	***104***
SIGAGEL ASSOCIATES Date Closed: 2/17/1998	***1 REWE STREET***	***WSW 0 - 1/8 (0.013 mi.)***	***E311***	***121***
MANHOLE 1299 Date Closed: 8/31/2005	1131 GRAND ST	SSE 0 - 1/8 (0.103 mi.)	I357	286
MANHOLE #14154 Date Closed: 5/5/2005	1181 GRAND ST/STEWART A	SSE 0 - 1/8 (0.107 mi.)	L361	300
ENGINE CO. 206 FDNY -DDC Date Closed: 7/10/2008	1201 GRAND STREET	SE 0 - 1/8 (0.116 mi.)	N369	351
ENGINE CO 206-NYCFD Date Closed: 1/20/2005	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N370***	***354***
MANHOLE #36370 Date Closed: 11/10/1999	***GRAND ST/METROPOLITAN A***	***SSE 0 - 1/8 (0.120 mi.)***	***L377***	***375***
COMMERCIAL WAREHOUSE Date Closed: 7/28/2009	1150 METROPOLITAN AVE	SSE 0 - 1/8 (0.121 mi.)	378	377
1213 GRAND STREET Date Closed: 5/15/2002	***1213 GRAND STREET***	***SE 0 - 1/8 (0.124 mi.)***	***N387***	***431***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
46-25 METROPOLITAN AVE	***46025 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.124 mi.)***	***L390***	***448***
MANHOLE #15350	***VARICK AVE & METROPOLIT***	***SSE 0 - 1/8 (0.125 mi.)***	***L391***	***451***
Date Closed: 11/10/1999				
ROADWAY	METROPOLITAN AVE & VARI	SSE 0 - 1/8 (0.125 mi.)	L392	453
Date Closed: 1/14/2009				

NY Hist Spills: This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 24 NY Hist Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
250 MASPETH AVE	***250 MASPETH AVE***	***0 - 1/8 (0.000 mi.)***	***D307***	***117***
BCF OIL REFINING INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B316***	***132***
BCF OIL	***360 MASTETH AV***	***ENE 0 - 1/8 (0.020 mi.)***	***B317***	***135***
BCF OIL REFINERY, INC	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B318***	***137***
BCF OIL REFINING	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B319***	***140***
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
BCF REFINING	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B322***	***181***
DITMAS OIL COMPANY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B326***	***189***
GASETERIA OIL CORP	***364 MASPETH AV***	***ENE 0 - 1/8 (0.028 mi.)***	***B328***	***199***
DITMAS OIL COMAPNY	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B330***	***202***
Not reported	***301 VANDERVOORT PL***	***WSW 0 - 1/8 (0.048 mi.)***	***G339***	***248***
Not reported	***MASPETH AV/VANDERVOORT***	***WSW 0 - 1/8 (0.051 mi.)***	***F341***	***254***
MASPETH AVE & VANDERVOORT	***MASPETH AVE & VANDERVOO***	***WSW 0 - 1/8 (0.051 mi.)***	***F344***	***259***
1100 GRAND ST/BKLYN/CIBRO	***1100 GRAND STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***M362***	***301***
METROPOLITAIN AVE & GRAND	***METROPOLITAIN AVE & GRA***	***SSE 0 - 1/8 (0.113 mi.)***	***I367***	***346***
VANDERVOORT AVE/GRANT ST	***VANDERVOORT AVE/GRANT S***	***S 0 - 1/8 (0.118 mi.)***	***J374***	***369***
GASETERIA OIL CORP.	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J382***	***410***
Not reported	***1049 GRAND STREET***	***S 0 - 1/8 (0.122 mi.)***	***J383***	***414***

Lower Elevation	Address	Direction / Distance	Map ID	Page
12 REWE ST/BROOKLYN	***12 REWE STREET***	***0 - 1/8 (0.000 mi.)***	***E302***	***104***
SIGAGEL ASSOCIATES	***1 REWE STREET***	***WSW 0 - 1/8 (0.013 mi.)***	***E311***	***121***
ENGINE CO 206-NYCFD	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N370***	***354***
MANHOLE #36370	***GRAND ST/METROPOLITAN A***	***SSE 0 - 1/8 (0.120 mi.)***	***L377***	***375***
1213 GRAND STREET	***1213 GRAND STREET***	***SE 0 - 1/8 (0.124 mi.)***	***N387***	***431***
MANHOLE #15350	***VARICK AVE & METROPOLIT***	***SSE 0 - 1/8 (0.125 mi.)***	***L391***	***451***

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/11/2011 has revealed that there are 25 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING, INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B320***	***143***
CALLEIA BROS INC	***362 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B323***	***183***
ROCKOWER - SIGADEL ASSOCIATES	***1 REWE ST***	***WSW 0 - 1/8 (0.042 mi.)***	***E338***	***244***
NYSDOT - CONTRACT D252291	***386 VANDEROORT AVE***	***WNW 0 - 1/8 (0.087 mi.)***	***H352***	***276***
BAYSIDE FUEL OIL DEPOT-1100 GR	***1100 GRAND ST***	***SSE 0 - 1/8 (0.109 mi.)***	***M363***	***317***
B P PRODUCTS NORTH AMERICA INC	***1049 GRAND ST***	***S 0 - 1/8 (0.122 mi.)***	***J384***	***416***
ROYALYARN DYEING	***340 MORGAN AVE***	***WSW 1/8 - 1/4 (0.138 mi.)***	***Q400***	***504***
ACME ALBERT STEEL DRUM INC	***1050 GRAND ST***	***SSW 1/8 - 1/4 (0.139 mi.)***	***413***	***617***
RIGHT-WAY DEALER WAREHOUSE INC	***1202 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.150 mi.)***	***L416***	***638***
TRANSCON LINES	***430 MASPETH AVE***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P418***	***647***
EMPIRE TRANSIT MIX INC	430 MASPETH AVE	ENE 1/8 - 1/4 (0.158 mi.)	P420	668
SUNSHINE BISCUITS INCORPORATED	***1251 METROPOLITAN AVENU***	***SE 1/8 - 1/4 (0.191 mi.)***	***U433***	***738***
ALJO AUTO ELECTRIC CORP	***1250 METROPOLITAN AVE***	***SE 1/8 - 1/4 (0.197 mi.)***	***U434***	***741***
WASTE MANAGEMENT OF NY LLC	***221 VARICK AVE***	***SSE 1/8 - 1/4 (0.200 mi.)***	***V438***	***776***
KALEX CHEMICAL PRODUCTS INC	***235 GARDNER AVE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U448***	***814***
V2287	***242 MORGAN AVENUE***	***SSW 1/8 - 1/4 (0.216 mi.)***	***W451***	***835***
NYCHA - COOPER PARK HOUSES	***40 DEBEVOISE AVE***	***W 1/8 - 1/4 (0.231 mi.)***	***Z462***	***913***
KLINK COSMO SYSTEMS	***368 RICHARDSON ST***	***NW 1/8 - 1/4 (0.237 mi.)***	***Y463***	***915***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW YORK TELEPHONE CO	***15 REWE ST***	***0 - 1/8 (0.000 mi.)***	***E306***	***114***
CONSOLIDATED CARPET TRADE WORK	***1181 GRAND ST***	***SSE 0 - 1/8 (0.107 mi.)***	***L359***	***290***
MANHATTAN POLY BAG	***1150 METROPOLITAN AVENU***	***SSE 0 - 1/8 (0.113 mi.)***	***I364***	***320***
AID AUTO STORES, INC.	***1150 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.113 mi.)***	***I365***	***329***
NYC FIRE DEPT ENGINE CO 206	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N368***	***349***
BUY RITE GARAGE INC	***1188 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.138 mi.)***	***L398***	***475***
CHARLES J KING INC	***1301 GRAND ST***	***ESE 1/8 - 1/4 (0.214 mi.)***	***X445***	***794***

HSWDS: The List includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity The latest version of the study is frozen in time. The sites on the study will not automatically be made superfund sites, rather each site will be further evaluated for listing in the registry. So overtime they will be added to the registry or not.

A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there are 7 HSWDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BUG, MASPETH GATE STATION	285 MASPETH AVENUE	0 - 1/8 (0.000 mi.)	C300	101

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TANKS-A-LOT COMPANY	362 MASPETH AVENUE	ENE 0 - 1/8 (0.024 mi.)	B324	186
BUG, VARICK GATE STATION	438 VARICK AVENUE	NNW 0 - 1/8 (0.122 mi.)	O385	429
BUG, EQUITY WORKS	MASPETH AND MORGAN AVEN	WSW 1/8 - 1/4 (0.125 mi.)	K393	455
K - GREENPOINT MGP - ENERGY CE	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O410***	***569***
VARICK AVENUE	165 VARICK AVENUE	SSE 1/4 - 1/2 (0.335 mi.)	AC478	967
LOMBARDY STREET LANDFILL	295 LOMBARDY STREET	N 1/4 - 1/2 (0.395 mi.)	AE491	997

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2010 has revealed that there are 32 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BCF OIL REFINING, INC.	***360 MASPETH AVENUE***	***ENE 0 - 1/8 (0.020 mi.)***	***B320***	***143***
BCF OIL	***360 MASPETH AVE***	***ENE 0 - 1/8 (0.020 mi.)***	***B321***	***156***
DITMAS TERMINAL - 364 MASPETH	***364 MASPETH AVENUE***	***ENE 0 - 1/8 (0.028 mi.)***	***B327***	***191***
ROCKOWER - SIGADEL ASSOCIATES	***1 REWE ST***	***WSW 0 - 1/8 (0.042 mi.)***	***E338***	***244***
CONSOLIDATED EDISON MH13123	184 MASPETH AVE	WSW 0 - 1/8 (0.119 mi.)	K376	373
B P PRODUCTS NORTH AMERICA INC	***1049 GRAND ST***	***S 0 - 1/8 (0.122 mi.)***	***J384***	***416***
ABF INC	414 MASPETH AVE	ENE 1/8 - 1/4 (0.126 mi.)	P395	468
CONSOLIDATED EDISON	344 MORGAN AVE	WSW 1/8 - 1/4 (0.138 mi.)	Q402	507
GREENPOINT ENERGY CENTER	***287 MASPETH AVENUE***	***NNW 1/8 - 1/4 (0.139 mi.)***	***O408***	***514***
ACME ALBERT STEEL DRUM INC	***1050 GRAND ST***	***SSW 1/8 - 1/4 (0.139 mi.)***	***413***	***617***
NYCDEP - GENERAL STOREHOUSE #1	***1201 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.144 mi.)***	***L415***	***630***
RIGHT-WAY DEALER WAREHOUSE INC	***1202 METROPOLITAN AVE***	***SSE 1/8 - 1/4 (0.150 mi.)***	***L416***	***638***
TRANSCON LINES	***430 MASPETH AVE***	***ENE 1/8 - 1/4 (0.158 mi.)***	***P418***	***647***
SIGNS & DECAL CORP	410 MORGAN AVE	W 1/8 - 1/4 (0.160 mi.)	S424	680
JOSEPH H LOWENSTEIN CO	***420 MORGAN AVE.***	***WNW 1/8 - 1/4 (0.173 mi.)***	***S427***	***707***
CONSOLIDATED EDISON	993 METROPOLITAN AVE	WSW 1/8 - 1/4 (0.184 mi.)	T429	729
SUNSHINE BISCUITS INCORPORATED	***1251 METROPOLITAN AVENU***	***SE 1/8 - 1/4 (0.191 mi.)***	***U433***	***738***
CONSOLIDATED PACKAGING GROUP	***1250 METROPOLITAN AVE***	***SE 1/8 - 1/4 (0.197 mi.)***	***U435***	***742***
WASTE MANAGEMENT OF NY LLC	***221 VARICK AVE***	***SSE 1/8 - 1/4 (0.200 mi.)***	***V438***	***776***
CONSOLIDATED EDISON	MORGAN AVE & MAUJER ST	SSW 1/8 - 1/4 (0.205 mi.)	W444	792
KALEX CHEMICAL PRODUCTS INC	***235 GARDNER AVE***	***SE 1/8 - 1/4 (0.215 mi.)***	***U448***	***814***
V2287	***242 MORGAN AVENUE***	***SSW 1/8 - 1/4 (0.216 mi.)***	***W451***	***835***
CONSOLIDATED EDISON	240 MORGAN AVE	SSW 1/8 - 1/4 (0.220 mi.)	W453	838
CONSOLIDATED EDISON	GARDNER AVE AND METROPO	SE 1/8 - 1/4 (0.229 mi.)	U461	912
NYCHA - COOPER PARK HOUSES	***40 DEBEVOISE AVE***	***W 1/8 - 1/4 (0.231 mi.)***	***Z462***	***913***
KLINK COSMO SYSTEMS	***368 RICHARDSON ST***	***NW 1/8 - 1/4 (0.237 mi.)***	***Y463***	***915***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW YORK TELEPHONE CO	***15 REWE ST***	***0 - 1/8 (0.000 mi.)***	***E306***	***114***
CONSOLIDATED CARPET TRADE WORK	***1181 GRAND ST***	***SSE 0 - 1/8 (0.107 mi.)***	***L359***	***290***
MANHATTAN POLY BAG	***1150 METROPOLITAN AVENU***	***SSE 0 - 1/8 (0.113 mi.)***	***I364***	***320***
MANHATTAN POLY BAG CORP	***1150 METROPOLITAN AVE***	***SSE 0 - 1/8 (0.113 mi.)***	***I366***	***331***
NYC FIRE DEPT ENGINE CO 206	***1201 GRAND ST***	***SE 0 - 1/8 (0.116 mi.)***	***N368***	***349***
ROADWAY EXPRESS	***1313 GRAND ST***	***E 1/8 - 1/4 (0.227 mi.)***	***X459***	***899***

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 3 Manufactured Gas Plants sites within approximately 1 mile of the target property.

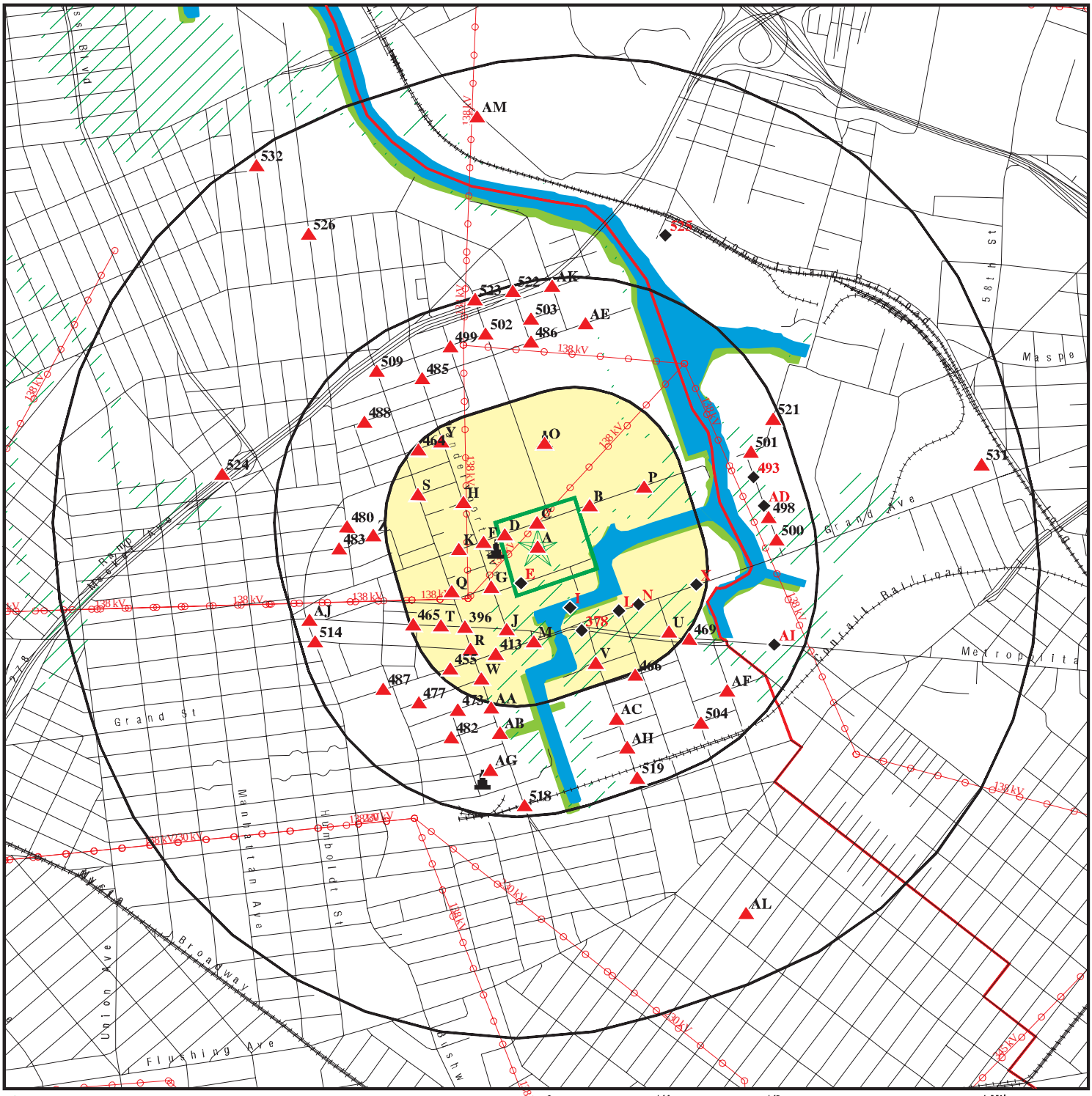
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EQUITY WORKS	MASPETH AND VANDERVORT	WSW 0 - 1/8 (0.017 mi.)	D315	131
GREENPOINT	287 MASPETH AVENUE	NNW 1/8 - 1/4 (0.139 mi.)	O404	511
SCHOLES ST. STATION	SCHOLES ST 7 BOGART STS	S 1/4 - 1/2 (0.427 mi.)	AG506	1019

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
NYSDOT BIN 1066220	FINDS,MANIFEST
BELL ATLANTIC-NY	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
NYNEX	MANIFEST
NYNEX	MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
CONSOLIDATED EDISON	RCRA-NLR,MANIFEST
NYCDEP	MANIFEST
TDI ATT - PETER VELAZQUEZ	FINDS,MANIFEST,RCRA-NLR
CONED	RCRA-NLR,MANIFEST
CON EDISON - MANHOLE 56833	RCRA-LQG
CON EDISON - MANHOLE 43904	RCRA-LQG
MCKESSON CHEMICAL CO	FINDS,RCRA-NLR
E 29TH ST & KINGS HWY	SPILLS,HIST SPILLS
BETW/AVE X &	SPILLS
BOX 38486	SPILLS,HIST SPILLS
TO ROADWAY	SPILLS
ROADWAY	SPILLS
KINGS HIGHWAY MOBIL	SPILLS
205842; KINGS HWY	SPILLS

OVERVIEW MAP - 3124384.6s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Fed Ex	CLIENT: AECOM
ADDRESS: 300 Maspeth Ave Brooklyn NY 11211	CONTACT: Joshua Millard
LAT/LONG: 40.7171 / 73.9321	INQUIRY #: 3124384.6s DATE: July 15, 2011 2:51 pm

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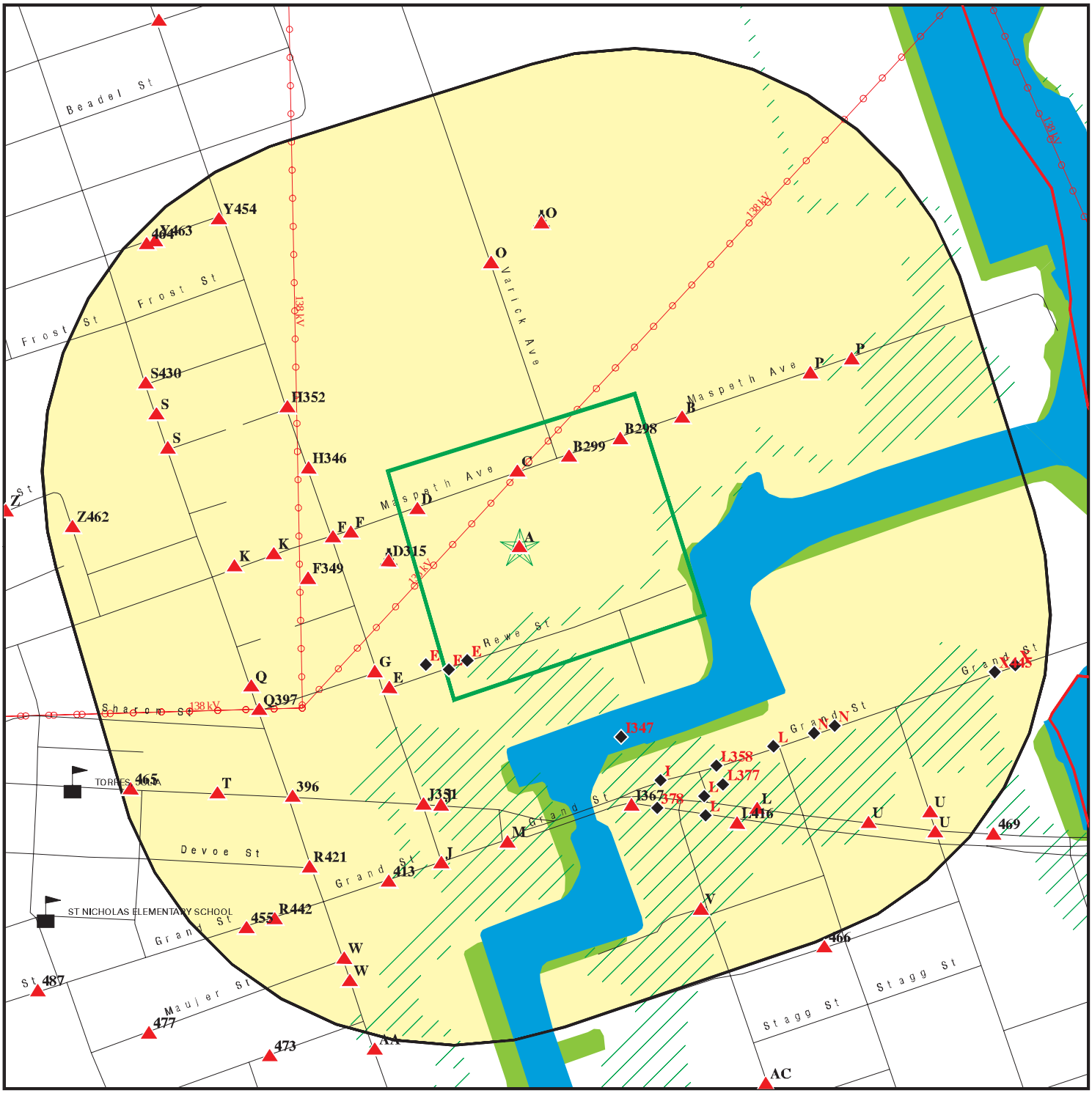
DETAIL MAP - 3124384.6s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	1	0	0	0	NR	1
Proposed NPL		1.000	1	0	0	0	NR	1
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	2	0	0	NR	NR	2
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	4	1	0	NR	NR	5
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	1	6	NR	NR	NR	7
RCRA-SQG		0.250	2	2	NR	NR	NR	4
RCRA-CESQG		0.250	1	3	NR	NR	NR	4
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS		1.000	0	2	2	5	NR	9
VAPOR REOPENED		1.000	0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	7	4	20	NR	NR	31
State and tribal leaking storage tank lists								
LTANKS	X	0.500	8	9	27	NR	NR	44
HIST LTANKS		0.500	7	8	17	NR	NR	32
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
TANKS		0.250	0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	X	0.250	15	14	NR	NR	NR	29
CBS UST		0.250	0	1	NR	NR	NR	1
MOSF UST		0.500	3	0	1	NR	NR	4
AST		0.250	8	10	NR	NR	NR	18
CBS AST		0.250	1	0	NR	NR	NR	1
MOSF AST		0.500	3	1	0	NR	NR	4
MOSF		0.500	3	1	1	NR	NR	5
CBS		0.250	1	1	NR	NR	NR	2
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
RES DECL		0.125	0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	1	0	NR	NR	1
State and tribal Brownfields sites								
ERP		0.500	0	0	0	NR	NR	0
BROWNFIELDS		0.500	0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
SWTIRE		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	4	NR	NR	4
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	1	0	1	3	NR	5
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	X	0.250	12	14	NR	NR	NR	26
HIST AST		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	X	TP	NR	NR	NR	NR	NR	0
NY Spills	X	0.125	33	NR	NR	NR	NR	33
NY Hist Spills		0.125	24	NR	NR	NR	NR	24
Other Ascertainable Records								
RCRA-NonGen	X	0.250	11	14	NR	NR	NR	25
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
HSWDS		0.500	3	2	2	NR	NR	7
UIC		TP	NR	NR	NR	NR	NR	0
MANIFEST		0.250	12	27	NR	NR	NR	39
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
E DESIGNATION		0.125	0	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	1	1	1	0	NR	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **HMIRS** **9999081392**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 1 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A2 **HMIRS** **9999081393**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 2 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A3 **HMIRS** **9999081394**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 3 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A4 **HMIRS** **9999081386**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 4 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A5 **HMIRS** **9999081388**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 5 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A6 **FEDEX GROUND PACKAGE SYSTEM, INC.** **UST** **U003127170**
Target Property **300 MASPETH AVENUE** **HIST UST** **N/A**
BROOKLYN, NY 11211

Site 6 of 297 in cluster A

Actual: 10 ft.

UST:

Facility Id:	2-336319
Region:	STATE
DEC Region:	2
Site Status:	Unregulated

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Program Type: PBS
Expiration Date: N/A
UTM X: 590159.54764999996
UTM Y: 4507935.1553800004

Affiliation Records:

Site Id: 16076
Affiliation Type: Mail Contact
Company Name: FEDEX GROUND
Contact Type: Not reported
Contact Name: JERRY C. SWART
Address1: P.O. BOX 108
Address2: Not reported
City: PITTSBURGH
State: PA
Zip Code: 15230
Country Code: 001
Phone: (412) 262-6291
Phone Ext: Not reported
Email: ENVIRONMENTAL@FEDEX.COM
Fax Number: Not reported
Modified By: kckemp
Date Last Modified: 3/14/2008

Site Id: 16076
Affiliation Type: Emergency Contact
Company Name: FEDEX GROUND
Contact Type: Not reported
Contact Name: SCOTT GARTON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 782-4848
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 16076
Affiliation Type: Owner
Company Name: FEDEX GROUND
Contact Type: Not reported
Contact Name: Not reported
Address1: PO BOX 108
Address2: Not reported
City: PITTSBURGH
State: PA
Zip Code: 15230
Country Code: 001
Phone: (412) 262-6291
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Date Last Modified: 3/4/2004

Site Id: 16076
Affiliation Type: On-Site Operator
Company Name: FEDEX GROUND PACKAGE SYSTEM, INC.
Contact Type: Not reported
Contact Name: FEDEX GROUND
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 782-4848
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
I00 - Overfill - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction
I00 - Overfill - None
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
I00 - Overfill - None
I00 - Overfill - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
B04 - Tank External Protection - Fiberglass

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
I00 - Overfill - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
I00 - Overfill - None
C00 - Pipe Location - No Piping
I00 - Overfill - None

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
I00 - Overfill - None
I00 - Overfill - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
I00 - Overfill - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None

Tank Info:

Site ID:	16076
Tank Number:	001
Tank ID:	21104
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	002
Tank ID:	21105
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	003
Tank ID:	21106
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	004
Tank ID:	21107
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	005
Tank ID:	21108
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	006
Tank ID:	21109
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	007
Tank ID:	21110
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	008
Tank ID:	21111
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	009
Tank ID:	21112
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	010
Tank ID:	21113
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	011
Tank ID:	21114
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	012
Tank ID:	21115
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	013
Tank ID:	21116
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	014
Tank ID:	21117
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	015
Tank ID:	21118
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	016
Tank ID:	21119
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	017
Tank ID:	21120
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	018
Tank ID:	21121
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	019
Tank ID:	21122
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	020
Tank ID:	21123
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	021
Tank ID:	21124
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	022
Tank ID:	21125
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/1994
Tank Location:	5

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	023
Tank ID:	21126
Tank Status:	Tank Converted to Non-Regulated Use
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1988
Capacity Gallons:	1000
Tightness Test Method:	06
Next Test Date:	Not reported
Date Tank Closed:	8/1/1996
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	2/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	16076
Tank Number:	24
Tank ID:	51478
Tank Status:	Tank Converted to Non-Regulated Use
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1965
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-336319
SPDES Number:	Not reported
Emergency Contact:	STEVEN WOLL
Emergency Telephone:	(718) 782-4848
Operator:	RPS, INC.
Operator Telephone:	(718) 782-4848
Owner Name:	RPS, INC
Owner Address:	PO BOX 5459
Owner City,St,Zip:	AKRON, OH 44334-0459
Owner Telephone:	(330) 665-2814
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Mailing Name:	CALIBER SYSTEM, INC.
Mailing Address:	PO BOX 5459
Mailing Address 2:	Not reported
Mailing City,St,Zip:	AKRON, OH 44334-0459
Mailing Contact:	REGINA R. GODWIN
Mailing Telephone:	(330) 665-2814
Owner Mark:	First Owner
Facility Status:	4 - Subpart 360-14 only (active)
Facility Addr2:	300 MASPETH AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	05/07/1998
Expiration Date:	10/02/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Lat/long: Not reported

Tank Id: 002
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19650101
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 01/01/1994
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 003
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19650101
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 01/01/1994
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	011
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	012
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	013
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	014
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	015
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	016
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	017
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	018
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	019
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	020
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19650101
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	01/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Lat/long: Not reported

Tank Id: 021
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19650101
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 01/01/1994
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 022
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19650101
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 01/01/1994
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

FEDEX GROUND PACKAGE SYSTEM, INC. (Continued) **U003127170**

Tank Id:	023
Tank Location:	UNDERGROUND
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	19881201
Capacity (gals):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	None
Pipe External:	Fiberglass
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	02/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1996
Test Method:	Hunter
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	24
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	19650101
Capacity (gals):	550
Product Stored:	USED OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

A7 **HMIRS** **9999081395**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 7 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A8 **HMIRS** **9999081424**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 8 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A9 **HMIRS** **9999091598**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 9 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A10 **FEDEX GROUND PACKAGE SYSTEM INC** **FINDS** **1012293464**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY 11211

Site 10 of 297 in cluster A

Actual: 10 ft.

FINDS:

Registry ID: 110040085902

Environmental Interest/Information System
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

A11
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 11 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999081396**
N/A

A12
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 12 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999081397**
N/A

A13
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 13 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999081398**
N/A

A14
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 14 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999081384**
N/A

A15
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 15 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900015199**
N/A

A16
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 16 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900015200**
N/A

A17
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 17 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900017607**
N/A

A18
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 18 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900014770**
N/A

A19
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 19 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900015195**
N/A

A20
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 20 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900015198**
N/A

A21
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 21 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000021929**
N/A

A22
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 22 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999051459**
N/A

A23
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 23 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999071323**
N/A

A24
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 24 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9999081376**
N/A

A25
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 25 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000021928**
N/A

A26
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 26 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9998080099**
N/A

A27
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 27 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9998081099**
N/A

A28
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 28 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000091391**
N/A

A29
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 29 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000091328**
N/A

A30
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 30 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9800000044**
N/A

A31
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 31 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000091393**
N/A

A32
Target Property **300 MASPETH**
BROOKLYN, NY

Site 32 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020045**
N/A

A33
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 33 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000091392**
N/A

A34
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 34 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020051**
N/A

A35
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 35 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000081595**
N/A

A36
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 36 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9800000046**
N/A

A37
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 37 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000081594**
N/A

A38
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 38 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020052**
N/A

A39
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 39 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000090479**
N/A

A40
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 40 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9800000045**
N/A

A41
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 41 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000110112**
N/A

A42
Target Property **300 MASPETH RD**
BROOKLYN, NY

Site 42 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020038**
N/A

A43
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 43 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000110102**
N/A

A44
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 44 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000110121**
N/A

A45
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 45 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001010784**
N/A

A46
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 46 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000110120**
N/A

A47
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 47 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000101780**
N/A

A48
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 48 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020044**
N/A

A49
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 49 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000100289**
N/A

A50
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 50 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000091394**
N/A

A51
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 51 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000101779**
N/A

A52
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 52 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000101773**
N/A

A53
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 53 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020043**
N/A

A54
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 54 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900001797**
N/A

A55
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 55 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900005396**
N/A

A56
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 56 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007156**
N/A

A57
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 57 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007157**
N/A

A58
Target Property **300 MASPETH AVENUE**
GREENPOINT, NY

Site 58 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900002811**
N/A

A59
Target Property **300 MASPETH AVENUE**
GREENPOINT, NY

Site 59 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900002812**
N/A

A60
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 60 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000081593**
N/A

A61
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 61 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007158**
N/A

A62
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 62 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007247**
N/A

A63
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 63 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007248**
N/A

A64
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 64 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007249**
N/A

A65
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 65 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007159**
N/A

A66
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 66 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007160**
N/A

A67
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 67 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007246**
N/A

A68
Target Property **300 MASPETH AVENUE**
GREENPOINT, NY

Site 68 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900002802**
N/A

A69
Target Property **X**
ADJACENT TO 300 MASPETH A
BROOKLYN, NY

Site 69 of 297 in cluster A

Actual:
10 ft.

NY Spills:

Site ID:	324179
Facility Addr2:	Not reported
Facility ID:	0313506
Spill Number:	0313506
Facility Type:	ER
SWIS:	2401
Investigator:	rmpiper
Referred To:	Not reported
Spill Date:	3/9/2004
Reported to Dept:	3/9/2004
CID:	403
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown

NY Spills **S106383602**
N/A

X (Continued) **S106383602**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/12/2007
Remediation Phase:	0
Date Entered In Computer:	3/9/2004
Spill Record Last Update:	12/12/2007
Spiller Name:	GREG CELLAMARE
Spiller Company:	Not reported
Spiller Address:	ADJACENT TO 300 MASPETH A
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	GREG CELLAMARE
Contact Phone:	(203) 470-9135
DEC Region:	2
DER Facility ID:	261129
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER" 12/14/05- DECPiper spoke w/ Greg on the # provided (cell). He requested that I contact him in the office (212)613-8842. Placed call into office and left message requesting call back. 1/23/06- DEC Piper placed call into Greg C. at office and left message requesting call back. 4/5/06- DEC Piper soke w/ Greg. At time of spill he worked for Warren & Panzer Engineering, 212-922-0077. They handled emer investigations of DDC sites. Contacted W & P, requested info/ callback. 12/12/07- DEC Piper reviewed spill case. No iformation is available regarding source, disposal, etc. This spill is closed.
Remarks:	they were doing excavating of the property when they noticed the ground was contaminated with some kind of petroleum. they think it is some knid of heating oil.

Material:

Site ID:	324179
Operable Unit ID:	878659
Operable Unit:	01
Material ID:	495102
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported

X (Continued) **S106383602**

Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

A70 **HMIRS** **9900002809**
Target Property **300 MASPETH AVENUE** **N/A**
GREENPOINT, NY

Site 70 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A71 **HMIRS** **9900001883**
Target Property **300 MASPETH AVE** **N/A**
GREENPOINT, NY

Site 71 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A72 **HMIRS** **9900001798**
Target Property **300 MASPETH AVE** **N/A**
GREENPOINT, NY

Site 72 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A73 **HMIRS** **9900001884**
Target Property **300 MASPETH AVE** **N/A**
GREENPOINT, NY

Site 73 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A74 **HMIRS** **9900002810**
Target Property **300 MASPETH AVENUE** **N/A**
GREENPOINT, NY

Site 74 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A75
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 75 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020053**
N/A

A76
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 76 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010503**
N/A

A77
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 77 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001040756**
N/A

A78
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 78 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20012764**
N/A

A79
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 79 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008441716**
N/A

A80
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 80 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008457187**
N/A

A81 **HMIRS** **2010102620**
Target **300 MASPETH AVE** **N/A**
Property **300 MASPETH AVE**
BROOKLYN, NY 11211

Site 81 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A82 **HMIRS** **9900010508**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 82 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A83 **HMIRS** **2008451962**
Target **300 MASPETH AVE** **N/A**
Property **300 MASPETH AVE**
BROOKLYN, NY

Site 83 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A84 **HMIRS** **20017601**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 84 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A85 **HMIRS** **2008429395**
Target **300 MASPETH AVE** **N/A**
Property **300 MASPETH AVE**
BROOKLYN, NY

Site 85 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A86 **HMIRS** **200112209**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 86 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A87 **HMIRS** **9900010500**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 87 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A88 **HMIRS** **20013755**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 88 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A89 **300 MASPETH AVE** **HMIRS** **2008428440**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 89 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A90 **300 MASPETH AVE** **HMIRS** **2008430600**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 90 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A91 **HMIRS** **9900007395**
Target Property **300 MASPETH AVE** **N/A**
GREENPOINT, NY

Site 91 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A92 **HMIRS** **2002079546**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 92 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A93
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008444087**
N/A

Site 93 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A94
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **9900014662**
N/A

Site 94 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A95
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **91070260**
N/A

Site 95 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A96
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **9900010502**
N/A

Site 96 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A97
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20011974**
N/A

Site 97 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A98
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2002033175**
N/A

Site 98 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A99 **300 MASPETH AVE** **HMIRS** **2008442327**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 99 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A100 **300 MASPETH AVE** **HMIRS** **2007428099**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 100 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A101 **HMIRS** **2005010481**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 101 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A102 **300 MASPETH AVE** **HMIRS** **2008432733**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 102 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A103 **FEDEX** **LTANKS** **S105996292**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 103 of 297 in cluster A

Actual:
10 ft.

LTANKS:

Site ID:	291369
Spill No:	0204002
Spill Date:	7/15/2002
Spill Cause:	Tank Failure
Spill Source:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/22/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	aaobliga
Referred To:	Not reported

FEDEX (Continued) **S105996292**

Reported to Dept:	7/17/2002
CID:	207
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/17/2002
Spill Record Last Update:	1/6/2006
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	JERRY SWART
Spiller Phone:	(412) 262-6291
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	235924
Remarks:	black tarry substance

Material:

Site ID:	291369
Operable Unit ID:	855266
Operable Unit:	01
Material ID:	518262
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

A104 **HMIRS** **2002084096**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 104 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A105 **300 MASPETH** **HMIRS** **2008446278**
Target Property **300 MASPETH** **N/A**
BROOKLYN, NY

Site 105 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A106 **300 MASPETH** **HMIRS** **2008444086**
Target Property **300 MASPETH** **N/A**
BROOKLYN, NY

Site 106 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A107 **HMIRS** **9900010496**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 107 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A108 **HMIRS** **92070277**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 108 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A109 **300 MASPETH AVE** **HMIRS** **2008446348**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 109 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A110 **300 MASPETH AVE** **HMIRS** **2007432719**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 110 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A111 **HMIRS** **2000035209**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 111 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A112 **HMIRS** **9900010506**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 112 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A113 **300 MASPETH AVE** **HMIRS** **2005704878**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 113 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A114 **300 MASPETH AVE** **HMIRS** **2009048438**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY 11211**

Site 114 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A115 **HMIRS** **200114898**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 115 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A116
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

Site 116 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008428804**
N/A

A117
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

Site 117 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000081429**
N/A

A118
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

Site 118 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008440659**
N/A

A119
Target Property
300 MASPETH AVE
BROOKLYN, NY

Site 119 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004080411**
N/A

A120
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

Site 120 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20015307**
N/A

A121
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

Site 121 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111771**
N/A

A122 **300 MASPETH AVE** **HMIRS** **2005704809**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 122 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A123 **HMIRS** **2002022454**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 123 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A124 **HMIRS** **20016294**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 124 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A125 **HMIRS** **9900007451**
Target Property **300 MASPETH AVE** **N/A**
GREENPOINT, NY

Site 125 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A126 **300 MASPETH AVE** **HMIRS** **2008447155**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 126 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A127 **HMIRS** **2004080076**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 127 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A128
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY 11211

HMIRS **2009046279**
N/A

Site 128 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A129
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2004040803**
N/A

Site 129 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A130
Target Property
300 MASPETH
BROOKLYN, NY

HMIRS **2001040754**
N/A

Site 130 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A131
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **2000081459**
N/A

Site 131 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A132
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008452898**
N/A

Site 132 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A133
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20017544**
N/A

Site 133 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A134
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 134 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111307**
N/A

A135
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 135 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005702497**
N/A

A136
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 136 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004050706**
N/A

A137
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 137 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002056345**
N/A

A138
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 138 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002079633**
N/A

A139
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 139 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111308**
N/A

A140
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 140 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001021005**
N/A

A141
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 141 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010488**
N/A

A142
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 142 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003127504**
N/A

A143
Target Property **FEDEX FACILITY**
300 MASPETH AVE
BROOKLYN, NY

Site 143 of 297 in cluster A

Actual:
10 ft.

NY Spills:

Site ID:	407744
Facility Addr2:	Not reported
Facility ID:	0810227
Spill Number:	0810227
Facility Type:	ER
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Spill Date:	12/12/2008
Reported to Dept:	12/12/2008
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/12/2008
Remediation Phase:	0

NY Spills **S109413414**
N/A

FEDEX FACILITY (Continued) **S109413414**

Date Entered In Computer: 12/12/2008
Spill Record Last Update: 12/12/2008
Spiller Name: MIKE DOWGER
Spiller Company: FEDEX
Spiller Address: 300 MASPETH AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 999
Contact Name: MIKE DOWGER
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 235924
DEC Memo: Sangesland spoke to Dan at Miller. He said there was a spill in the FEDEX parking lot from 20 gal diesel from a delivery truck. Vac truck is sucking out the drain. Because of the rain earlier today there was standing water in the sump and the product was floating on top of the water. Speedie Dry was applied to the parking lot area. 3PM Everything is now cleaned up and Miller is packing up their gear and leaving.
Remarks: Caller states a leaking fuel tank on a truck caused fuel to spill onto the parking lot and ran into a storm sewer. Miller environmental is cleaning up.

Material:
Site ID: 407744
Operable Unit ID: 1164280
Operable Unit: 01
Material ID: 2155653
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 30
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

A144
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 144 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200110451**
N/A

A145
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 145 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008430685**
N/A

A146
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 146 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004050763**
N/A

A147
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 147 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007428095**
N/A

A148
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 148 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002083410**
N/A

A149
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 149 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010536**
N/A

A150
Target Property **300 MASPETH AVE.**
300 MASPETH AVE.
BROOKLYN, NY

HMIRS **2005700098**
N/A

Site 150 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A151
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

HMIRS **20012617**
N/A

Site 151 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A152
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

HMIRS **20016663**
N/A

Site 152 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A153
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

HMIRS **20013995**
N/A

Site 153 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A154
Target Property **300 MASPETH AVE**
BROOKLYN, NY

HMIRS **2003135341**
N/A

Site 154 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A155
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008455766**
N/A

Site 155 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A156
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

HMIRS **200111772**
N/A

Site 156 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A157
Target Property **ROADWAY PACKAGE SYSTEM INC**
300 MASPETH AVE
BROOKLYN, NY 11211

RCRA-NonGen **1000871725**
FINDS **NY0000092858**

Site 157 of 297 in cluster A

Actual: 10 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	ROADWAY PACKAGE SYSTEM INC
Facility address:	300 MASPETH AVE TRUCKING TERMINAL BROOKLYN, NY 112111704
EPA ID:	NY0000092858
Mailing address:	PO BOX 108 PITTSBURGH, NY 15230
Contact:	Not reported
Contact address:	PO BOX 108 PITTSBURGH, NY 15230
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SERVICES DEVELOPMENT
Owner/operator address:	1300 DELAWARE TRUST BLDG WILMINGTON, DE 19899
Owner/operator country:	US
Owner/operator telephone:	(302) 652-8063
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	SERVICES DEVELOPMENT
Owner/operator address:	1300 DELAWARE TRUST BLDG WILMINGTON, DE 19899
Owner/operator country:	US
Owner/operator telephone:	(302) 652-8063
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

ROADWAY PACKAGE SYSTEM INC (Continued) **1000871725**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: ROADWAY PACKAGE SYSTEM INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ROADWAY PACKAGE SYSTEM INC
Classification: Not a generator, verified

Date form received by agency: 11/24/1993
Facility name: ROADWAY PACKAGE SYSTEM INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 11/06/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110009462036

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A158
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 158 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003129167**
N/A

A159
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 159 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007450**
N/A

A160
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 160 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007431264**
N/A

A161
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 161 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002055746**
N/A

A162
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 162 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004050781**
N/A

A163
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 163 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002055697**
N/A

A164
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2007427801**
N/A

Site 164 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A165
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **9900010504**
N/A

Site 165 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A166
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **200111572**
N/A

Site 166 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A167
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20012616**
N/A

Site 167 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A168
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20016998**
N/A

Site 168 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A169
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2004090933**
N/A

Site 169 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A170
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 170 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002068032**
N/A

A171
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 171 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008427034**
N/A

A172
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 172 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007397**
N/A

A173
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 173 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000035208**
N/A

A174
Target Property **300 MASPEH AVE**
BROOKLYN, NY

Site 174 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001040758**
N/A

A175
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 175 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111770**
N/A

A176
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 176 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20012619**
N/A

A177
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 177 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007428105**
N/A

A178
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 178 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002033691**
N/A

A179
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 179 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008449919**
N/A

A180
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 180 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005010605**
N/A

A181
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 181 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **91040503**
N/A

A182
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 182 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003133376**
N/A

A183
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 183 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002022726**
N/A

A184
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 184 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009050476**
N/A

A185
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 185 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008429394**
N/A

A186
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 186 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20013996**
N/A

A187
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 187 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009048510**
N/A

A188
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 188 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2000081356**
N/A

A189
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 189 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005706915**
N/A

A190
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 190 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20012615**
N/A

A191
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 191 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007434432**
N/A

A192
Target Property **300 MASPETH AVE.**
300 MASPETH AVE.
BROOKLYN, NY

Site 192 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005703834**
N/A

A193
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 193 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003127373**
N/A

A194
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 194 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20016637**
N/A

A195
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 195 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111309**
N/A

A196
Target Property **300 MASPETH AVE**
300 MASPETH AVE
KINGS, NY

Site 196 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008433778**
N/A

A197
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 197 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008446286**
N/A

A198
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11208

Site 198 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009055717**
N/A

A199
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 199 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008444644**
N/A

A200
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 200 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010498**
N/A

A201
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 201 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010507**
N/A

A202
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 202 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008430252**
N/A

A203
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 203 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005705809**
N/A

A204
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 204 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007434431**
N/A

A205
Target Property **BUTLER FLEET**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 205 of 297 in cluster A

Actual:
10 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: BUTLER FLEET
Facility address: 300 MASPETH AVE
BROOKLYN, NY 112111704

RCRA-NonGen **1000790575**
FINDS **NYD987020591**

BUTLER FLEET (Continued) **1000790575**

EPA ID: NYD987020591
Mailing address: MASPETH AVE
BROOKLYN, NY 11211
Contact: Not reported
Contact address: MASPETH AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: BUTLER FLEET SERVICES
Owner/operator address: 101-23 CORPORATE SQ DR
ST LOUIS, MO 63132
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BUTLER FLEET SERVICES
Owner/operator address: 101-23 CORPORATE SQ DR
ST LOUIS, MO 63132
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BUTLER FLEET
Classification: Not a generator, verified

BUTLER FLEET (Continued) **1000790575**

Date form received by agency: 07/08/1999
Facility name: BUTLER FLEET
Classification: Not a generator, verified

Date form received by agency: 11/06/1992
Facility name: BUTLER FLEET
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 08/31/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004497376

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A206 **HMIRS** **2005706399**
Target Property **300 MASPETH AVE** **N/A**
300 MASPETH AVE
BROOKLYN, NY

Site 206 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A207 **HMIRS** **2000081357**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 207 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A208
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 208 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001328**
N/A

A209
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 209 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020986**
N/A

A210
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 210 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200114935**
N/A

A211
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 211 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2007433360**
N/A

A212
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 212 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009051054**
N/A

A213
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 213 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002067216**
N/A

A214 **300 MASPETH AVE** **HMIRS** **2005704360**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 214 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A215 **300 MASPETH AVE** **HMIRS** **2008430686**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 215 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A216 **HMIRS** **2002044810**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 216 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A217 **300 MASPETH AVE** **HMIRS** **2008442537**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY**

Site 217 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A218 **HMIRS** **20012614**
Target **300 MASPETH AVENUE** **N/A**
Property **BROOKLYN, NY**

Site 218 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A219 **300 MASPETH AVE** **HMIRS** **2010101114**
Target **300 MASPETH AVE** **N/A**
Property **BROOKLYN, NY 11211**

Site 219 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A220
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008441718**
N/A

Site 220 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A221
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **2001761**
N/A

Site 221 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A222
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2004031152**
N/A

Site 222 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A223
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2002045239**
N/A

Site 223 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A224
Target Property
FEDEX
300 MASPETH AVE
BROOKLYN, NY

NY Spills **S106004598**
N/A

Site 224 of 297 in cluster A

Actual:
10 ft.

NY Spills:

Site ID:	205400
Facility Addr2:	Not reported
Facility ID:	0202804
Spill Number:	0202804
Facility Type:	ER
SWIS:	2401
Investigator:	aaobliga
Referred To:	NFA
Spill Date:	6/17/2002
Reported to Dept:	6/17/2002
CID:	365
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial

FEDEX (Continued) **S106004598**

Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Dt:	12/22/2005
Remediation Phase:	0
Date Entered In Computer:	6/17/2002
Spill Record Last Update:	12/22/2005
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	300 MASPETH AV
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	235924
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT" 10/15/04-Vought-File review by Vought: Access Agreement-7/10/02. Access agreement for FedEx to remove USTs and portion of tankfield on adjacent property. Letter from Testwell Labs(Pearce) to FedEx(Swart)-7/10/02. Work proposal for installation of nine soil borings, field screening of soil samples, conversion of three of the borings into monitoring wells, quarterly sampling of the wells and further excavation of the soil and piping. Letter from Testwell Labs(Pearce) to DEC Vought-7/22/02. Soil "samples were taken from the walls and groundwater after the underground fuel storage tanks and surrounding had been removed..." Testwell recommends: 1)backfilling of UST excavation 2)SVOC's are due to fill material 3)if wells are deemed necessary "they are to be installed at a later date after site work (piles and foundations) is complete" 4)remaining vent lines terminate at surface level and remaining contaminated soil on adjacent property should be removed. Letter from Gannett Fleming (Ernst) to DEC Vought-8/13/02. "This letter is intended to inform the NYSDEC of the projected site remediation activities." "Based on the endpoint soil data (samples WSW and SSW no further action is recommended for the soil beneath facility footprint which is currently under construcion". No groundwater monitoring wells are proposed inside the facility." Gannett Fleming will provide a comprehensive site investigation report on both the UST removal and for the "black tar like substance found in the southwestern portion of the site". Report from Gannett Fleming to DEC Vought-8/28/04. "This letter provides a summary of the additional investigation activities and sample analysis that have taken place....." Removal of twenty (550-gallon) gasoline USTs and 900 tons of impacted soil. See above 7/22/02 entry for endpoint analyticals. Soil analyticals show 7750ppb 1,3,5-trimethylbenzene(WSW Wall) and 6470ppb xylene(WSW Wall), 110ppb benzene(vent x bottom), 110ppb benzene(Vent x sw), 120ppb benzene(n wall composite), 5900ppb 1,3,5-trimethylbenzene(n wall composite), 11000ppb 1,2,4-trimethylbenzene(n wall composite). Groundwater analytical from one well shows 40ppb benzene and 26ppb xylene. "Black stained soil exhibiting a strong petroleum odor was observed adjacent to the southwestern portion of the existing

FEDEX (Continued) **S106004598**

warehouse". Seven test pits were dug to delineate the stained soil but no groundwater samples were collected. Report recommends: 1)no further actions for soils south and west of the former UST area 2)additional delineation north and east of the former UST area via Geoprobe 3)installation of six montoring wells (two upgradient and four downgradient). Investigation activities will be provided to DEC in a supplemental site investigation report. Soil analyticals shos PAH exceedences throughout site due to fill material. Report from Gannett Fleming to DEC Vought-6/8/04. "This letter report documents the results of investigative activities conducted...." "A review of historic Sanborn maps indicate a Brooklyn Union Gas bulk petroleum storage and distribution terminal was present in the southwestern portion of the site in 1951. Installation of six monitoring wells. An additional well was installed to replace a well destroyed in the tankfield excavation. Groundwater at a depth of 8' below grade. "..groundwater flows to the north in the northern portion of the site. Groundwater flows converge to the east in the southern portion of the site". Groundwater analyticals show 21ppb ethylbenzene(MW1), 13ppb 1,3,5-trimethylbenzene(MW1), 97ppb napthalene(MW1), 10ppb benzene(MW2), 7ppb ethylbenzene(MW2), 93ppb napthalene(MW2), 20ppb benzene(MW7), 7ppb ethylbenzene(MW7), 35ppb xylene(MW7), 52ppb napthalene(MW7). Soil analyticals showed no VOC exceedences and SVOC exceedences attributable to fill material. Report recommends: 1)no further action with respect to soil 2)no further action for onsite groundwater due to "poor regional groundwater quality". Report requests no further action. DEC requires: 1)one full year of groundwater monitoring prior to closure. 10/18/04-Vought-Sent letter with above requirement. 9/27/05 - Obligado - SITE TRANSFERRED FROM VOUGHT TO OBLIGADO 9/30/05 - Obligado - Called Manfred Bohms, left message. 10/03/05 - Obligado - Spoke with Manfred Bohms (516) 671-8440. Said that a final quarterly monitoring report should be received by Department in a few weeks. 11/7/05 - Obligado - Review final quarterly monitoring report. Ground water results show 28 ppb benzene (MW1), 28 ppb ethylbenzene (mw1), 10 ppb xylenes (mw1), 3 ppb benzene (mw3), 34 ppb benzene (mw7), 6 ppb toluene (mw7), 32 ppb xylenes (mw7), 150 ppb napthalene (mw7). Conclusions: GW data indicate ground water contmaination is stagnant. GW flow and quality have remained consistent throughout monitoring program. Stagnant gw plume indicate groundwater impacts "representative of regional groundwater quality". Requests no further action. Will discuss with Joe Sun. 12/22/05 - Obligado - Spoke with Koon. Approves NFA. Minor residual contamination possibly coming from offsite - former Brooklyn Union is across the street. Spill closed. Letter sent.

Remarks: they were excavating a previously closed tank & came across it by the piping - they will excavate & stock pile the soil

Material:

Site ID:	205400
Operable Unit ID:	855853
Operable Unit:	01
Material ID:	520642
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No

FEDEX (Continued) **S106004598**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

A225 **HMIRS** **20018233**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 225 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A226 **300 MASPETH AVE** **HMIRS** **2008429541**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 226 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A227 **HMIRS** **20018305**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 227 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A228 **300 MASPETH AVE** **HMIRS** **2008441075**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 228 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A229
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 229 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002033499**
N/A

A230
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 230 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004040421**
N/A

A231
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 231 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200115797**
N/A

A232 **300 MASPETH AVE**
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 232 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008444789**
N/A

A233 **300 MASPETH AVE**
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 233 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008430939**
N/A

A234 **300 MASPETH AVE.**
Target Property **300 MASPETH AVE.**
BROOKLYN, NY

Site 234 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005702351**
N/A

A235
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008447692**
N/A

Site 235 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A236
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2007435459**
N/A

Site 236 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A237
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20012868**
N/A

Site 237 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A238
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008439167**
N/A

Site 238 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A239
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008450897**
N/A

Site 239 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A240
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20013070**
N/A

Site 240 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A241
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY 11211

HMIRS **2010102786**
N/A

Site 241 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A242
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2007429156**
N/A

Site 242 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A243
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **200113870**
N/A

Site 243 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A244
Target Property
300 MASPETH AVENUE
BROOKLYN, NY

HMIRS **20014075**
N/A

Site 244 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A245
Target Property
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2002078484**
N/A

Site 245 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A246
Target Property
300 MASPETH AVE
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008444788**
N/A

Site 246 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A247
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 247 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200111571**
N/A

A248
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 248 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009055719**
N/A

A249
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 249 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008437221**
N/A

A250
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 250 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008445066**
N/A

A251
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 251 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2005011118**
N/A

A252
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 252 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001021028**
N/A

A253
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 253 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002033384**
N/A

A254
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 254 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20011975**
N/A

A255
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 255 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2004110577**
N/A

A256
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 256 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200113852**
N/A

A257
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 257 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008448521**
N/A

A258
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 258 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009057556**
N/A

A259
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 259 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002022738**
N/A

A260
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 260 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008443609**
N/A

A261
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 261 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008442360**
N/A

A262
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 262 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200110126**
N/A

A263
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 263 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001020987**
N/A

A264
Target Property **300 MASPETH**
BROOKLYN, NY

Site 264 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001040755**
N/A

A265
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 265 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200112090**
N/A

A266
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 266 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001040757**
N/A

A267
Target Property **300 MASPETH AVE**
GREENPOINT, NY

Site 267 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900007250**
N/A

A268
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 268 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20013756**
N/A

A269
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 269 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003124205**
N/A

A270
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 270 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900012778**
N/A

A271
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 271 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **200110443**
N/A

A272
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 272 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20013071**
N/A

A273
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 273 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **20015565**
N/A

A274
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 274 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2002083464**
N/A

A275
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 275 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2001324**
N/A

A276
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 276 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2009057810**
N/A

A277
Target Property **300 MASPETH AVE**
BROOKLYN, NY

HMIRS **2002056392**
N/A

Site 277 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A278
Target Property **300 MASPETH AVE**
BROOKLYN, NY

HMIRS **2003121662**
N/A

Site 278 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A279
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

HMIRS **20011976**
N/A

Site 279 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A280
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008454011**
N/A

Site 280 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A281
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008451804**
N/A

Site 281 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A282
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

HMIRS **2008444443**
N/A

Site 282 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A283
Target Property **300 MASPETH AVENUE**
BROOKLYN, NY

Site 283 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **9900010505**
N/A

A284
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 284 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008431185**
N/A

A285
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 285 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008446410**
N/A

A286
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY 11211

Site 286 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2010110388**
N/A

A287
Target Property **300 MASPETH AVE**
BROOKLYN, NY

Site 287 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2003134504**
N/A

A288
Target Property **300 MASPETH AVE**
300 MASPETH AVE
BROOKLYN, NY

Site 288 of 297 in cluster A

Actual:
10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

HMIRS **2008441715**
N/A

A289 **HMIRS** **200110131**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 289 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A290 **300 MASPETH AVE** **HMIRS** **2009052598**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY 11211

Site 290 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A291 **300 MASPETH AVE** **HMIRS** **2008445110**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 291 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A292 **300 MASPETH AVE** **HMIRS** **2005703704**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 292 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A293 **HMIRS** **2001040759**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 293 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A294 **300 MASPETH AVE** **HMIRS** **2007431263**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 294 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A295 **HMIRS** **2002067278**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 295 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A296 **300 MASPETH AVE** **HMIRS** **2008452054**
Target Property **300 MASPETH AVE** **N/A**
BROOKLYN, NY

Site 296 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

A297 **HMIRS** **2001771**
Target Property **300 MASPETH AVENUE** **N/A**
BROOKLYN, NY

Site 297 of 297 in cluster A

Actual: 10 ft.

Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

B298 **NEW YORK RECYCLERS; INC. (MASPETH AVE)** **SWF/LF** **S105841915**
340 MASPETH AVENUE **N/A**
< 1/8 **BROOKLYN, NY 11211**
1 ft.

Site 1 of 20 in cluster B

Relative: Higher

Actual: 13 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183492540
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TIMOTHY FULTON
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24WE6
Active:	No
East Coordinate:	590567
North Coordinate:	4508105
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Concrete;Asphalt;Brick;Rock;Soil (Clean)

NEW YORK RECYCLERS; INC. (MASPETH AVE) (Continued) **S105841915**

Authorization #: None
Authorization Date: Not reported
Expiration Date: Not reported

B299 **ABF FREIGHT SYSTEM** **UST** **U001840138**
320 MASPETH AVE **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211** **NY Spills**
1 ft.

Site 2 of 20 in cluster B

Relative: Higher

Actual: 12 ft.

UST:
Facility Id: 2-452300
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590192.19195000001
UTM Y: 4507946.3944100002

Affiliation Records:
Site Id: 19755
Affiliation Type: Owner
Company Name: CORPORATE PROPERTY INVESTORS
Contact Type: Not reported
Contact Name: Not reported
Address1: 3 DAG HAMMARSKJOLD PLAZA
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10019
Country Code: 001
Phone: (212) 421-8200
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 19755
Affiliation Type: On-Site Operator
Company Name: ABF FREIGHT SYSTEM
Contact Type: Not reported
Contact Name: ABF FREIGHT SYSTEM
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 782-0600
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 19755

ABF FREIGHT SYSTEM (Continued) **U001840138**

Affiliation Type:	Mail Contact
Company Name:	CORPORATE PROPERTY INVESTORS
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3 DAG HAMMARSKJOLD PLAZA
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001
Phone:	(212) 421-8200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	19755
Affiliation Type:	Emergency Contact
Company Name:	CORPORATE PROPERTY INVESTORS
Contact Type:	Not reported
Contact Name:	HARRY MURPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-0600
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C00 - Pipe Location - No Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
H99 - Tank Leak Detection - Other
G00 - Tank Secondary Containment - None
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C00 - Pipe Location - No Piping
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

ABF FREIGHT SYSTEM (Continued) **U001840138**

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
I00 - Overfill - None
H99 - Tank Leak Detection - Other
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
I00 - Overfill - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H99 - Tank Leak Detection - Other
I00 - Overfill - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
H99 - Tank Leak Detection - Other
A00 - Tank Internal Protection - None

Tank Info:

Site ID:	19755
Tank Number:	001
Tank ID:	40937
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	19755
Tank Number:	002
Tank ID:	40938

ABF FREIGHT SYSTEM (Continued) **U001840138**

Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	19755
Tank Number:	003
Tank ID:	40939
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	19755
Tank Number:	004
Tank ID:	40940
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	19755
Tank Number:	005
Tank ID:	40941

ABF FREIGHT SYSTEM (Continued) **U001840138**

Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	19755
Tank Number:	006
Tank ID:	40942
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-452300
SPDES Number:	Not reported
Emergency Contact:	HARRY MURPHY
Emergency Telephone:	(718) 782-0600
Operator:	ABF FREIGHT SYSTEM
Operator Telephone:	(718) 782-0600
Owner Name:	CORPORATE PROPERTY INVESTORS
Owner Address:	3 DAG HAMMARSKJOLD PLAZA
Owner City,St,Zip:	NEW YORK, NY 10019
Owner Telephone:	(212) 421-8200
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	CORPORATE PROPERTY INVESTORS
Mailing Address:	3 DAG HAMMARSKJOLD PLAZA
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10019
Mailing Contact:	Not reported
Mailing Telephone:	(212) 421-8200
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	320 MASPETH AVE

ABF FREIGHT SYSTEM (Continued) **U001840138**

SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/23/1988
Expiration Date:	08/23/1993
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL

ABF FREIGHT SYSTEM (Continued) **U001840138**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported

ABF FREIGHT SYSTEM (Continued) **U001840138**

Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported

ABF FREIGHT SYSTEM (Continued) **U001840138**

Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

NY Spills:

Site ID:	441801
Facility Addr2:	Not reported
Facility ID:	1008320
Spill Number:	1008320
Facility Type:	ER
SWIS:	2401
Investigator:	HRAHMED
Referred To:	Not reported
Spill Date:	11/8/2010
Reported to Dept:	11/8/2010
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	11/19/2010
Remediation Phase:	0
Date Entered In Computer:	11/8/2010
Spill Record Last Update:	11/19/2010
Spiller Name:	Not reported
Spiller Company:	DRUM LEAKING
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	FAIFAL
Contact Phone:	(917) 682-3008
DEC Region:	2
DER Facility ID:	396822
DEC Memo:	11/08/10-Zhune. NYCDEP-Faifal confirmed Waste oil. 11/19/10-HRAHMED-No drum was found at this location during DRUM RUN on 11/19/10. DEP was notified. This case is closed.
Remarks:	onto concrete surface - NYC DEP put barrell into 85 gallon barrell

Material:

Site ID:	441801
Operable Unit ID:	1192342

ABF FREIGHT SYSTEM (Continued) **U001840138**

Operable Unit:	01
Material ID:	2187633
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

C300 **BUG, MASPETH GATE STATION** **HSWDS** **S108147014**
285 MASPETH AVENUE **N/A**
< 1/8 **BROOKLYN, NY 11222**
1 ft.

Site 1 of 3 in cluster C

Relative: Higher

Actual: 13 ft.

HSWDS:

Facility ID:	Not reported
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	Brooklyn Union Gas
Owner Address:	195 Montague Street
Owner Phone:	(718)403-3053
Operator Type:	Unknown
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532220
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 10 N
Longitude:	73 55 45 W
Acres:	0.00
Operator Date:	1981
Close Date:	Unknown
Completed:	PA

BUG, MASPETH GATE STATION (Continued) **S108147014**

Active:	Unknown
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

D301 **VACANT PROPERTY** **NY Spills** **S108058149**
254 MASPETH AVE **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 1 of 4 in cluster D

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	366539
Facility Addr2:	Not reported
Facility ID:	0603758
Spill Number:	0603758
Facility Type:	ER
SWIS:	2401
Investigator:	WSOTTAWA
Referred To:	Not reported
Spill Date:	7/5/2006
Reported to Dept:	7/5/2006
CID:	409
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	9/12/2006
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/12/2006
Remediation Phase:	0
Date Entered In Computer:	7/5/2006
Spill Record Last Update:	10/23/2008
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	MANFRED BOHMS
Contact Phone:	(516) 671-8440
DEC Region:	2
DER Facility ID:	316593
DEC Memo:	Site is part of a MGP clean up. Will be entering into an agreement with the owner. Property owner was doing geotechnical investigation. DEC Inspector witnessed the work and observations are provided in e-Docs. Site is contaminated by coal tar, which will be addressed as part of Remediation site #V00699
Remarks:	CLEAN UP IS NOT IN PROCESS. CONTACT DEC MGP GROUP. BILL OTTAWAY 518-402-9686. KEYSPAN IS IN THE PROCESS OF ENTERING AN AGREEMENT ON THIS SITE.

Material:

Site ID:	366539
Operable Unit ID:	1124475
Operable Unit:	01
Material ID:	2113974
Material Code:	0018A
Material Name:	TAR
Case No.:	Not reported
Material FA:	Other

VACANT PROPERTY (Continued) **S108058149**

Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

E302 **12 REWE ST/BROOKLYN** **NY Spills** **S102141832**
12 REWE STREET **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 1 of 12 in cluster E

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	255816
Facility Addr2:	Not reported
Facility ID:	9011716
Spill Number:	9011716
Facility Type:	ER
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Spill Date:	2/7/1991
Reported to Dept:	2/7/1991
CID:	Not reported
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Local Agency
Cleanup Ceased:	3/30/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/30/1995
Remediation Phase:	0
Date Entered In Computer:	2/12/1991
Spill Record Last Update:	1/23/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001

12 REWE ST/BROOKLYN (Continued) **S102141832**

Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	209515
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	NYCFD ON SCENE WAITING FOR SANITATION SANDER.

Material:

Site ID:	255816
Operable Unit ID:	951666
Operable Unit:	01
Material ID:	567662
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	70
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9011716
Investigator:	TANG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/07/1991 16:00
Reported to Dept Date/Time:	02/07/91 16:10
SWIS:	61
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Traffic Accident
Reported to Dept:	On Land
Water Affected:	Not reported

12 REWE ST/BROOKLYN (Continued) **S102141832**

Spill Source: 08
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: 03/30/95
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 03/30/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/12/91
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/30/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 70
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: NYCFD ON SCENE WAITING FOR SANITATION SANDER.

E303 **EAST TERMINAL, LLC** **UST** **U004062595**
12 REWE STREET **N/A**
< 1/8 **BROOKLYN, NY 11211**
1 ft.

Site 2 of 12 in cluster E

Relative:
Lower

Actual:
8 ft.

UST:
Facility Id: 2-608670
Region: STATE
DEC Region: 2
Site Status: Active
Program Type: PBS
Expiration Date: 2008/06/16
UTM X: 590083.19842000003
UTM Y: 4507742.0217000004

EAST TERMINAL, LLC (Continued) **U004062595**

Affiliation Records:

Site Id:	30522
Affiliation Type:	Owner
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	816 56TH STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11220
Country Code:	001
Phone:	(718) 431-1289
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	Mail Contact
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	MIRIAM CHAN
Address1:	816 56TH STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11220
Country Code:	001
Phone:	(718) 431-1289
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	Emergency Contact
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	MIRIAN CHAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 653-8878
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	On-Site Operator

EAST TERMINAL, LLC (Continued) **U004062595**

Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	MIRIAM CHAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 653-8878
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I05 - Overfill - Vent Whistle
G00 - Tank Secondary Containment - None
I02 - Overfill - High Level Alarm
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Info:

Site ID:	30522
Tank Number:	100
Tank ID:	66160
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	00
Next Test Date:	12/27/1987
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT

EAST TERMINAL, LLC (Continued) **U004062595**

Last Modified: 3/4/2004

E304 **EAST TERMINAL, LLC** **AST** **A100293860**
12 REWE STREET **N/A**
< 1/8 **BROOKLYN, NY 11211**
1 ft.

Site 3 of 12 in cluster E

Relative:
Lower

Actual:
8 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608670
Program Type:	PBS
UTM X:	590083.19842000003
UTM Y:	4507742.0217000004
Expiration Date:	2008/06/16

Affiliation Records:

Site Id:	30522
Affiliation Type:	Owner
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	816 56TH STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11220
Country Code:	001
Phone:	(718) 431-1289
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	Mail Contact
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	MIRIAM CHAN
Address1:	816 56TH STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11220
Country Code:	001
Phone:	(718) 431-1289
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	Emergency Contact
Company Name:	EAST TERMINAL, LLC

EAST TERMINAL, LLC (Continued) **A100293860**

Contact Type:	Not reported
Contact Name:	MIRIAN CHAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 653-8878
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30522
Affiliation Type:	On-Site Operator
Company Name:	EAST TERMINAL, LLC
Contact Type:	Not reported
Contact Name:	MIRIAM CHAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 653-8878
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I05 - Overfill - Vent Whistle
G00 - Tank Secondary Containment - None
I02 - Overfill - High Level Alarm
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Info:

EAST TERMINAL, LLC (Continued) **A100293860**

Tank Number:	01
Tank Id:	65474
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

E305 **BLINN DRUG CO** **UST U000396985**
16 REWE ST **HIST UST N/A**
< 1/8 **BROOKLYN, NY 11211**
1 ft.

Site 4 of 12 in cluster E

Relative:
Lower

Actual:
8 ft.

UST:

Facility Id:	2-117501
Region:	STATE
DEC Region:	2
Site Status:	Administratively Closed
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590313.71540999995
UTM Y:	4507783.3724100003

Affiliation Records:

Site Id:	4009
Affiliation Type:	On-Site Operator
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	WILLIAM BLINDERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 963-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	4009
Affiliation Type:	Owner
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	16 REWE ST

BLINN DRUG CO (Continued) **U000396985**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 963-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	4009
Affiliation Type:	Emergency Contact
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	WILLIAM BLINDERMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 963-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	4009
Affiliation Type:	Mail Contact
Company Name:	BLINN DRUG CO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	16 REWE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 963-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None

BLINN DRUG CO (Continued) **U000396985**

D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Info:

Site ID:	4009
Tank Number:	001
Tank ID:	8583
Tank Status:	Administratively Closed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	3/1/2000
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1988
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-117501
SPDES Number:	Not reported
Emergency Contact:	WILLIAM BLINDERMAN
Emergency Telephone:	(718) 963-1606
Operator:	WILLIAM BLINDERMAN
Operator Telephone:	(718) 963-1606
Owner Name:	BLINN DRUG CO
Owner Address:	16 REWE ST
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Telephone:	(718) 963-1606
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	BLINN DRUG CO
Mailing Address:	16 REWE ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	Not reported
Mailing Telephone:	(718) 963-1606
Owner Mark:	First Owner
Facility Status:	3 - Administratively closed (reasons include business is closed and/or mail is undeliverable, and staff cannot check if tanks were removed; or a duplicate registration was generated).
Facility Addr2:	16 REWE ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/28/1992
Expiration Date:	06/18/1997
Renew Flag:	False

BLINN DRUG CO (Continued) **U000396985**

Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Undefined
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	02/01/1988
Next Test Date:	02/01/1993
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/2000
Test Method:	Horner EZ Check
Deleted:	False
Updated:	False
Lat/long:	Not reported

E306 **NEW YORK TELEPHONE CO** **RCRA-NonGen** **1000136852**
15 REWE ST **FINDS** **NYD980755680**
< 1/8 **BROOKLYN, NY 11211** **MANIFEST**
1 ft.

Site 5 of 12 in cluster E

Relative:
Lower

Actual:
8 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NEW YORK TELEPHONE CO
Facility address:	15 REWE ST BROOKLYN, NY 112111707
EPA ID:	NYD980755680
Mailing address:	PENN PLZ ROOM 1650 NEW YORK, NY 10121
Contact:	Not reported
Contact address:	PENN PLZ ROOM 1650 NEW YORK, NY 10121
Contact country:	US
Contact telephone:	Not reported

NEW YORK TELEPHONE CO (Continued) **1000136852**

Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NEW YORK TELEPHONE CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NEW YORK TELEPHONE CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NEW YORK TELEPHONE CO
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NEW YORK TELEPHONE CO
Classification: Not a generator, verified

Date form received by agency: 05/23/1983
Facility name: NEW YORK TELEPHONE CO
Classification: Large Quantity Generator

NEW YORK TELEPHONE CO (Continued) **1000136852**

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/12/1991
Date achieved compliance: 07/12/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/12/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 07/12/1991
Evaluation lead agency: State

FINDS:

Registry ID: 110004389714

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD980755680
Country: USA
Mailing Name: NYNEX
Mailing Contact: B WARREN
Mailing Address: 441 9TH AVE-RM 501
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10001
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-502-7694

Document ID: NYA5693724
Manifest Status: Completed copy
Trans1 State ID: NYU65765
Trans2 State ID: Not reported
Generator Ship Date: 870205
Trans1 Recv Date: 870205

NEW YORK TELEPHONE CO (Continued) **1000136852**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870206
Part A Recv Date:	870212
Part B Recv Date:	870213
Generator EPA ID:	NYD980755680
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	43130
Units:	P - Pounds
Number of Containers:	070
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	87

D307 **250 MASPETH AVE** **NY Spills** **S102146430**
250 MASPETH AVE **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 2 of 4 in cluster D

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	322763
Facility Addr2:	Not reported
Facility ID:	9301340
Spill Number:	9301340
Facility Type:	ER
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Spill Date:	4/28/1993
Reported to Dept:	4/28/1993
CID:	Not reported
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	4/28/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	4/28/1993
Remediation Phase:	0
Date Entered In Computer:	4/29/1993
Spill Record Last Update:	7/20/1993
Spiller Name:	Not reported
Spiller Company:	CAROLINA FREIGHT
Spiller Address:	414 MASPETH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2

250 MASPETH AVE (Continued) **S102146430**

DER Facility ID: 260006
DEC Memo: Not reported
Remarks: TRENCH WORK IN STREET-METAL PLATE POPPED UP. PUNCTURED TANK FOUND ON SCENE-CONT W/SPEEDI0DRI.NYCDEP ON SCENE-CLEANED UP & CONTRINERIZED

Material:
Site ID: 322763
Operable Unit ID: 979947
Operable Unit: 01
Material ID: 398528
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 50
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9301340
Investigator: CAMMISA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/28/1993 10:30
Reported to Dept Date/Time: 04/28/93 14:24
SWIS: 61
Spiller Name: CAROLINA FREIGHT
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 414 MASPETH AVE
Spiller City,St,Zip: BROOKLYN, NY
Spill Cause: Traffic Accident
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 07
Spill Notifier: Responsible Party
PBS Number: Not reported

250 MASPETH AVE (Continued) **S102146430**

Cleanup Ceased: 04/28/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 04/28/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/29/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/20/93
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 50
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: TRENCH WORK IN STREET-METAL PLATE POPPED UP. PUNCTURED TANK FOUND ON SCENE-CONT W/SPEEDI0DRI.NYCDEP ON SCENE-CLEANED UP CONTRINERIZED

C308 **BKLYN UNION GAS /MASPETH GATE STA** **CERC-NFRAP** **1003863866**
285 MASPETH AVE **NYD980532220**
< 1/8 **BROOKLYN, NY 11222**
1 ft.

Site 2 of 3 in cluster C

Relative:
Higher

Actual:
13 ft.

CERC-NFRAP:
Site ID: 0201996
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981

BKLYN UNION GAS /MASPETH GATE STA (Continued) **1003863866**

Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/24/1986
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 09/05/1986
Date Completed: 09/24/1986
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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C309 **BKLYN UNION GAS /EQUITY WORKS** **CERC-NFRAP** **1003863854**
MASPETH & MORGAN AVE **NYD980532048**
< 1/8 **BROOKLYN, NY 11222**
1 ft.

Site 3 of 3 in cluster C

Relative:
Higher

Actual:
13 ft.

CERC-NFRAP:
Site ID: 0201980
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/24/1986
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 09/05/1986
Date Completed: 09/24/1986
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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D310 **FONTANA TRANSFER STATION** **SWF/LF** **S105841907**
252 MASPETH AVENUE **N/A**
< 1/8 **BROOKLYN, NY 11211**
1 ft.

Site 3 of 4 in cluster D

Relative:
Higher

Actual:
13 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7183847727
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported

FONTANA TRANSFER STATION (Continued) **S105841907**

Owner Phone:	Not reported
Contact Name:	JACK BORDORE; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W52
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00067
Authorization Date:	Not reported
Expiration Date:	Not reported

E311 **SIGAGEL ASSOCIATES** **NY Spills** **S102446593**
WSW **1 REWE STREET** **NY Hist Spills** **N/A**
< 1/8 **QUEENS, NY**
0.013 mi.
66 ft. **Site 6 of 12 in cluster E**

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	231743
Facility Addr2:	Not reported
Facility ID:	9610158
Spill Number:	9610158
Facility Type:	ER
SWIS:	4101
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	11/14/1996
Reported to Dept:	11/14/1996
CID:	204
Spill Cause:	Housekeeping
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/17/1998
Remediation Phase:	0
Date Entered In Computer:	11/14/1996
Spill Record Last Update:	2/17/1998
Spiller Name:	MOHAMED AHMED
Spiller Company:	SIGAGEL ASSOCIATES
Spiller Address:	516 5TH AVENUE
Spiller City,St,Zip:	QUEENS, NY
Spiller Company:	001
Contact Name:	MOHAMED AHMED

SIGAGEL ASSOCIATES (Continued) **S102446593**

Contact Phone: (212) 340-9812
DEC Region: 2
DER Facility ID: 190990
DEC Memo: Not reported
Remarks: SOIL CONTAMINATION

Material:
Site ID: 231743
Operable Unit ID: 1038075
Operable Unit: 01
Material ID: 342369
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9610158
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/14/1996 11:30
Reported to Dept Date/Time: 11/14/96 11:55
SWIS: 63
Spiller Name: SIGAGEL ASSOCIATES
Spiller Contact: MOHAMED AHMED
Spiller Phone: (212) 340-9812
Spiller Contact: MOHAMED AHMED
Spiller Phone: (212) 340-9812
Spiller Address: 516 5TH AVENUE
Spiller City,St,Zip: QUEENS, NY
Spill Cause: Housekeeping
Reported to Dept: Groundwater
Water Affected: Not reported

SIGAGEL ASSOCIATES (Continued) **S102446593**

Spill Source: 04
Spill Notifier: Other
PBS Number: 2-603289
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/17/98
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/14/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/17/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: DEC SIGONA CONDUCTED FIELD INVESTIGATION AND REVIEWED SUBMITTED SITE ASSSESSMENTS BY AKRF, INC. FACILITY REMOVED SOIL AND UST. GROUNDWATER MONITORING WELLS WERE INSTALLED. GROUNDWATER WAS PURGED AND SAMPLED FOR SEVERAL MONTHS. REPEATED TESTING SHOWED A DECREASING TREND, AND MODELLING WAS PERFORMED. A LETTER WAS SENT TO OWNER ON 2/17/98 TO CLOSED THIS CASE.
Remark: SOIL CONTAMINATION

E312 **8 REWE STREET, LLC** **UST** **U004076426**
WSW **8 REWE STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.015 mi.
81 ft. **Site 7 of 12 in cluster E**

Relative:
Lower

Actual:
8 ft.

UST:
Facility Id: 2-114308
Region: STATE
DEC Region: 2
Site Status: Unregulated

8 REWE STREET, LLC (Continued) **U004076426**

Program Type:	PBS
Expiration Date:	N/A
UTM X:	590189.82051999995
UTM Y:	4507732.2699199999

Affiliation Records:

Site Id:	3728
Affiliation Type:	On-Site Operator
Company Name:	8 REWE STREET, LLC
Contact Type:	Not reported
Contact Name:	MARJAN SUPPLY CO.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-6465
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2/22/2007

Site Id:	3728
Affiliation Type:	Owner
Company Name:	8 REWE STREET, LLC
Contact Type:	MEMBER
Contact Name:	JAMES BUTLER
Address1:	8 REWE STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	2/22/2007

Site Id:	3728
Affiliation Type:	Mail Contact
Company Name:	8 REWE STREET, LLC
Contact Type:	Not reported
Contact Name:	BRUCE RESPLER
Address1:	885 CONKLIN STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 388-6465
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis

8 REWE STREET, LLC (Continued) **U004076426**

Date Last Modified: 2/22/2007

Site Id: 3728
Affiliation Type: Emergency Contact
Company Name: 8 REWE STREET, LLC
Contact Type: Not reported
Contact Name: FRANK MISSANO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 388-6465
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: msbaptis
Date Last Modified: 2/22/2007

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
K99 - Spill Prevention - Other
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None

Tank Info:

Site ID: 3728

Tank Number: 001
Tank ID: 4073
Tank Status: Closed - Removed
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 6/1/1979
Capacity Gallons: 7500
Tightness Test Method: 21
Next Test Date: Not reported
Date Tank Closed: 4/1/2007
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 6/8/2004
Register: True
Modified By: NRLOMBAR
Last Modified: 4/2/2009

E313
WSW
< 1/8
0.015 mi.
81 ft.

M ADLERS SON INC
8 REWE ST
BROOKLYN, NY 11211

Site 8 of 12 in cluster E

HIST UST **U000395039**
N/A

Relative:
Lower

Actual:
8 ft.

HIST UST:

PBS Number:	2-114308
SPDES Number:	Not reported
Emergency Contact:	MARK THOMPSON
Emergency Telephone:	(718) 388-4000
Operator:	M ADLERS SON INC
Operator Telephone:	(718) 388-4000
Owner Name:	ADLER-THOMPSON
Owner Address:	8 REWE ST
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Telephone:	(718) 388-4000
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ADLER-THOMPSON
Mailing Address:	8 REWE ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	MARK THOMPSON
Mailing Telephone:	(718) 388-4000
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	8 REWE ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/15/1999
Expiration Date:	03/24/2002
Renew Flag:	False
Renewal Date:	20011113
Total Capacity:	7000
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19790601
Capacity (gals):	7000

M ADLERS SON INC (Continued) **U000395039**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	Not reported
Tank External:	Fiberglass
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	08/01/1999
Next Test Date:	08/01/2004
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

E314 **GLOBAL MOVING ASTORAGE** **UST** **U001444802**
WSW **7 REWE STREET** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.017 mi.
89 ft. **Site 9 of 12 in cluster E**

Relative:
Lower

Actual:
8 ft.

UST:

Facility Id:	2-601554
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590189.82051999995
UTM Y:	4507732.2699199999

Affiliation Records:

Site Id:	23516
Affiliation Type:	Emergency Contact
Company Name:	ACHIM IMPORTING
Contact Type:	Not reported
Contact Name:	MR. GROSSMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 369-2200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23516
Affiliation Type:	Owner

GLOBAL MOVING ASTORAGE (Continued) **U001444802**

Company Name:	ACHIM IMPORTING
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	58 SECOND AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11215
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23516
Affiliation Type:	Mail Contact
Company Name:	ACHIM IMPORTING CO.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	58 SECOND AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	11215
Country Code:	001
Phone:	(718) 369-2200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23516
Affiliation Type:	On-Site Operator
Company Name:	GLOBAL MOVING ASTORAGE
Contact Type:	Not reported
Contact Name:	GLOBAL MOVING ASTORAGE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-0066
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

I00 - Overfill - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C02 - Pipe Location - Underground/On-ground

GLOBAL MOVING ASTORAGE (Continued) **U001444802**

F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
H99 - Tank Leak Detection - Other
B00 - Tank External Protection - None

Tank Info:

Site ID:	23516
Tank Number:	001
Tank ID:	46748
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1973
Capacity Gallons:	7500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	23516
Tank Number:	002
Tank ID:	46749
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1993
Capacity Gallons:	7500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-601554
SPDES Number:	Not reported

GLOBAL MOVING ASTORAGE (Continued) **U001444802**

Emergency Contact:	MR. GROSSMAN
Emergency Telephone:	(718) 369-2200
Operator:	GLOBAL MOVING ASTORAGE
Operator Telephone:	(718) 599-0066
Owner Name:	ACHIM IMPORTING
Owner Address:	58 SECOND AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11215
Owner Telephone:	(000) 000-0000
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	ACHIM IMPORTING CO.
Mailing Address:	58 SECOND AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 11215
Mailing Contact:	Not reported
Mailing Telephone:	(718) 369-2200
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	7 REWE STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/28/1993
Expiration Date:	07/27/1998
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19731201
Capacity (gals):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Not reported

GLOBAL MOVING ASTORAGE (Continued) **U001444802**

Second Containment:	Not reported
Leak Detection:	Double Bottom
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19930801
Capacity (gals):	7500
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Double Bottom
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

D315 **EQUITY WORKS** **Manufactured Gas Plants** **1008407885**
WSW **MASPETH AND VANDERVORT AVES.** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.017 mi.
91 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
15 ft.

Manufactured Gas Plants:
No additional information available

B316 **BCF OIL REFINING INC.** **SWF/LF** **1006534661**
ENE **360 MASPETH AVENUE** **NY Spills** **N/A**
< 1/8 **BROOKLYN, NY** **NY Hist Spills**
0.020 mi.
105 ft. **Site 3 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183879710
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	SALVATORE CORTESE
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Waste oil storage; reprocessing or rerefining facility
Activity Number:	24O59
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	1 - No accuracy stated
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	2-6101-00075
Authorization Date:	8/21/1992
Expiration Date:	8/21/1995

NY Spills:

Site ID:	80011
Facility Addr2:	Not reported
Facility ID:	9403829
Spill Number:	9403829
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	6/17/1994
Reported to Dept:	6/17/1994
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	9/2/2003

BCF OIL REFINING INC. (Continued) **1006534661**

Remediation Phase: 0
Date Entered In Computer: 9/26/1994
Spill Record Last Update: 6/7/2004
Spiller Name: Not reported
Spiller Company: BCF OIL REFINING, INC.
Spiller Address: 360 MASPETH AVENUE
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 74202
DEC Memo: Not reported
Remarks: USCG NIOTIFIED DEC OF OIL CONTAMINATION AT SPDES OUTFALL, AND ALONG THE SHORELINE OF THE ENGLISH KILLS. USCG REQUESTED BOOMING. DEC INVESTIGATED WITH DEP. DEC SIGONA HIRED MILRO TO CLEANOUT OWS.

Material:
Site ID: 80011
Operable Unit ID: 1000808
Operable Unit: 01
Material ID: 383992
Material Code: 0022
Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9403829
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/17/1994 15:00
Reported to Dept Date/Time: 06/17/94 16:01

BCF OIL REFINING INC. (Continued) **1006534661**

SWIS: 61
Spiller Name: BCF OIL REFINING, INC.
Spiller Contact: Not reported
Spiller Phone: (718) 387-9710
Spiller Address: 360 MASPETH AVENUE
Spiller City,St,Zip: BROOKLYN, NEW YORK
Spill Cause: Housekeeping
Reported to Dept: Surface Water
Water Affected: ENGLISH KILLS
Spill Source: 03
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/26/94
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/18/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 04/25/95: SEE DEC SPILL 9406807-DEC PIN-MILRO CLEANED OUT STORM WATER OIL WATER SEPARATOR AND INSTALLED BY-PASS. 04/25/95: SEE DEC SPILL 9406807-DEC PIN-MILRO CLEANED OUT STORM WATER OIL WATER SEPARATOR AND INSTALLED BY-PASS/FACILITY STORAGE TANKS AND PROCESS SEPARATORS ARE CONTAMINATED WITH PCBS.
Remark: USCG NIOTIFIED DEC OF OIL CONTAMINATION AT SPDES OUTFALL, AND ALONG THE SHORELINE OF THE ENGLISH KILLS. USCG REQUESTED BOOMING. DEC INVESTIGATED WITH DEP. DEC SIGONA HIRED MILRO TO CLEANOUT OWS.

B317 **BCF OIL** **NY Spills** **1000548489**
ENE **360 MASTETH AV** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.020 mi.
105 ft. **Site 4 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	286994
Facility Addr2:	Not reported
Facility ID:	9700679
Spill Number:	9700679
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	4/15/1997
Reported to Dept:	4/15/1997
CID:	211
Spill Cause:	Housekeeping
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	9/2/2003
Remediation Phase:	0
Date Entered In Computer:	4/15/1997
Spill Record Last Update:	9/2/2003
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL
Spiller Address:	360 MASPETH AV
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	SAL CORTESE
Contact Phone:	(718) 387-9710
DEC Region:	2
DER Facility ID:	74202
DEC Memo:	Not reported
Remarks:	Company is cleaning tanks for inspection and discharge pipes are leaking water and PCB oil mixture - Pipe 1 discharging at 1 GPM & Pipe 2 discharging at 5 GPM the discharge is to English Kills

Material:

Site ID:	286994
Operable Unit ID:	1046962
Operable Unit:	01
Material ID:	337271
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

BCF OIL (Continued) **1000548489**

Oxygenate:	False
Site ID:	286994
Operable Unit ID:	1046962
Operable Unit:	01
Material ID:	337270
Material Code:	0017A
Material Name:	PCB OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9700679
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/15/1997 12:00
Reported to Dept Date/Time:	04/15/97 14:55
SWIS:	61
Spiller Name:	BCF OIL
Spiller Contact:	SAL CORTESE
Spiller Phone:	(718) 387-9710
Spiller Contact:	SAL CORTESE
Spiller Phone:	(718) 387-9710
Spiller Address:	360 MASTETH AV
Spiller City,St,Zip:	BROOKLYN, NY
Spill Cause:	Housekeeping
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	DEC
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False

BCF OIL (Continued) **1000548489**

Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/15/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 04/16/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: PCB OIL
Class Type: PCB OIL
Times Material Entry In File: 1229
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: company is cleaning tanks for inspection and discharge pipes are leaking water and pcb oil mixture - pipe 1-1 gpm and pipe 2-5gpm leak caller also states product has entered nearby creek - unk name

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B318 **BCF OIL REFINERY, INC** **NY Spills** **S102148627**
ENE **360 MASPETH AVENUE** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.020 mi.
105 ft. **Site 5 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

NY Spills:
Site ID: 80012
Facility Addr2: Not reported
Facility ID: 9406807
Spill Number: 9406807
Facility Type: ER
SWIS: 2401
Investigator: KGHALE
Referred To: Not reported
Spill Date: 8/19/1994
Reported to Dept: 8/19/1994
CID: Not reported

BCF OIL REFINERY, INC (Continued) **S102148627**

Spill Cause:	Equipment Failure
Water Affected:	ENGLISH KILL
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	10/20/1994
Spill Record Last Update:	10/26/2007
Spiller Name:	Not reported
Spiller Company:	BCF OIL REFINERY, INC
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	74202
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE" 04/25/95: SEE SPILL #9403829. DEC (Sigona) issued a hazardous waste cleanup contractor on 3/27/2000 under H0413. DEC referred this site cleanup to USEPA for RCRA Cleanup action. This spill site cleanup has been consolidated under Spill No. 9406807. 4/21/04 - Spill manager's name switched to Tipple from Sigona. 8/23/04 - Raphael Ketani. Case transferred to Jeff Vought.
Remarks:	STORMWATER OVERFLOWING, OIL/WATER SEPARATOR SYSTEM WHICH FEEDS THROUGH OIL STORAGE AND TREATMENT SYSTEM. OIL STORAGE CONT./W PCBS. DEC HIRED CONT. TO INSTALL BY PASS TO ALLOW STORMWATER TO FLOW.

Material:

Site ID:	80012
Operable Unit ID:	1004223
Operable Unit:	01
Material ID:	379839
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported

BCF OIL REFINERY, INC (Continued) **S102148627**

Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9406807
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/19/1994 09:00
Reported to Dept Date/Time: 08/19/94 09:00
SWIS: 61
Spiller Name: BCF OIL REFINERY, INC
Spiller Contact: Not reported
Spiller Phone: (718) 387-9710
Spiller Address: 360 MASPETH AVENUE
Spiller City,St,Zip: BROOKLYN, NEW YORK
Spill Cause: Housekeeping
Reported to Dept: Surface Water
Water Affected: ENGLISH KILL
Spill Source: 03
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/20/94
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/31/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum

BCF OIL REFINERY, INC (Continued) **S102148627**

Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Pounds
Quantity Recovered:	0
Unkonwn Quantity Recovered:	True
Material:	WASTE OIL
Class Type:	WASTE OIL
Times Material Entry In File:	9509
CAS Number:	Not reported
Last Date:	19940927
DEC Remarks:	04/25/95: SEE SPILL 9403829. DEC Sigona) issued a ha ardous waste cleanup contractor on 3/27/2000 under H0413.
Remark:	STORMWATER OVERFLOWING, OIL/WATER SEPARATOR SYSTEM WHICH FEEDS THROUGH OIL STORAGE AND TREATMENT SYSTEM. OIL STORAGE CONT./W PCBS. DEC HIRED CONT. TO INSTALL BY PASS TO ALLOW STORMWATER TO FLOW.

B319 **BCF OIL REFINING** **LTANKS** **S103481879**
ENE **360 MASPETH AVENUE** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.020 mi.
105 ft. **Site 6 of 20 in cluster B**

Relative: **Higher**

Actual: **13 ft.**

LTANKS:

Site ID:	211456
Spill No:	9112627
Spill Date:	3/11/1992
Spill Cause:	Tank Failure
Spill Source:	Major Facility > 400,000 gal
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	9/2/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	3/11/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/11/1992
Spill Record Last Update:	9/2/2003
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL REFINNING, INC.
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	SAL CORTESE
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	74202
Remarks:	MOSF # 02-2600; PRODUCT DISCOVERED IN MONITORING WELL # 1

BCF OIL REFINING (Continued) **S103481879**

Material:

Site ID:	211456
Operable Unit ID:	966221
Operable Unit:	01
Material ID:	414191
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	True
Site ID:	211456
Operable Unit ID:	966221
Operable Unit:	01
Material ID:	414192
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	True
Site ID:	211456
Operable Unit ID:	966221
Operable Unit:	01
Material ID:	572806
Material Code:	1213A
Material Name:	MTBE (METHYL-TERT-BUTYL ETHER)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	True

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2

BCF OIL REFINING (Continued) **S103481879**

Spill Number:	9112627
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	03/11/1992 11:00
Reported to Dept Date/Time:	03/11/92 11:57
SWIS:	61
Spiller Name:	BCF OIL REFINNING, INC.
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	260 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN
Spill Cause:	Unknown
Reported to Dept:	Groundwater
Water Affected:	Not reported
Spill Source:	03
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	03/11/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/18/98
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Pounds
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414

BCF OIL REFINING (Continued) **S103481879**

CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: MOSF 02-2600; PRODUCT DISCOVERED IN MONITORING WELL 1

B320 **BCF OIL REFINING, INC.** **CERCLIS** **1000272490**
ENE **360 MASPETH AVENUE** **RCRA-NonGen** **NYD068273044**
< 1/8 **BROOKLYN, NY 11211** **FINDS**
0.020 mi. **DEL SHWS**
105 ft. **Site 7 of 20 in cluster B** **MANIFEST**

Relative:
Higher

Actual:
13 ft.

CERCLIS:

Site ID:	0204261
EPA ID:	NYD068273044
Facility County:	KINGS
Short Name:	BCF OIL REFINING, INC.
Congressional District:	12
IFMS ID:	02PU
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	02
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	20000713
Site Fips Code:	36047
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	2272030.00000
Contact Name:	CRIS D'ONOFRIO
Contact Tel:	Not reported
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported

Contact ID:	2272030.00000
Contact Name:	CRIS D'ONOFRIO
Contact Tel:	Not reported
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported

BCF OIL REFINING, INC. (Continued) **1000272490**

Alias Comments: Not reported
Site Description: Oil refinery containing approximately one half million gallons of PCB containaminated waste oil. The owner has been in negotiations with the NYSDEC, but has decided to walk away and have the government perform the cleanup. The site has been determined to be removal eligible. Richard Gardineer, from DEP informed EPA that DEP wants to wait for the removal action results before doing a PA at the site.

CERCLIS Assessment History:

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 03/27/2000
Date Completed: 03/29/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 04/28/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 04/28/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 05/23/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported

BCF OIL REFINING, INC. (Continued) **1000272490**

Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 05/23/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: Not reported
Date Completed: 11/06/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL NEGOTIATIONS
Date Started: 04/28/2000
Date Completed: 11/06/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 05/25/2000
Date Completed: 01/02/2001
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

BCF OIL REFINING, INC. (Continued) **1000272490**

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMOVAL
Date Started: 01/03/2001
Date Completed: 10/26/2001
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 03/27/2000
Date Completed: 08/23/2002
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COST RECOVERY NEGOTIATIONS
Date Started: 08/23/2002
Date Completed: 09/30/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: JUDICIAL/CIVIL JUDGMENT
Date Started: Not reported
Date Completed: 01/09/2007
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

BCF OIL REFINING, INC. (Continued) **1000272490**

Action:	SECTION 107 LITIGATION
Date Started:	09/30/2003
Date Completed:	01/09/2007
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	JUDICIAL/CIVIL JUDGMENT
Date Started:	Not reported
Date Completed:	07/08/2010
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
111 additional US CERCLIS Financial: record(s) in the EDR Site Report.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	US ENVIRONMENTAL PROTECTION AGENCY
Facility address:	C O BCF OIL REFINING SITE 360-362 MASPETH AVE BROOKLYN, NY 11211
EPA ID:	NYD068273044
Mailing address:	WOODBRIDGE AVE 360-3 62 MASPETH AVE EDISON, NJ 08837
Contact:	THOMAS P BUDROE
Contact address:	WOODBRIDGE AVE 360-3 EDISON, NJ 08837
Contact country:	US
Contact telephone:	(732) 906-6191
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private

BCF OIL REFINING, INC. (Continued) **1000272490**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: US ENVIRONMENTAL PROTECTION AGENCY
Classification: Not a generator, verified

Date form received by agency: 02/27/2002
Facility name: US ENVIRONMENTAL PROTECTION AGENCY
Classification: Large Quantity Generator

Date form received by agency: 11/14/1984
Facility name: US ENVIRONMENTAL PROTECTION AGENCY
Site name: TANKS-A-LOT INC
Classification: Unverified

Violation Status: No violations found

FINDS:

Registry ID: 110001595854

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is

BCF OIL REFINING, INC. (Continued) **1000272490**

used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

BCF OIL REFINING, INC. (Continued) **1000272490**

DEL SHWS:

Year:	Not reported
Site Code Id:	Not reported
Site Classification:	Not reported
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	Not reported
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	Not reported
Lat/Long Decimal:	Not reported
Lat/Long (dms):	Not reported
Hazardous Waste Code:	224034
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Not reported
HW Disposal Period:	Not reported
Analytical Data Available:	Not reported

BCF OIL REFINING, INC. (Continued) **1000272490**

Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Not reported
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	Not reported
Confirmed HW:	Not reported
Environment Assesment:	Not reported
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	Not reported
NYTM Y:	Not reported
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Persons who dig below the ground surface may come into contact with soil and groundwater contaminated with volatile organic compounds. People are not exposed to contaminants in drinking water since the area is served by a public water supply. Also, they are not coming into contact with the groundwater unless they dig greater than 10 feet below the ground surface. Organic compounds in the soil and groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings is referred to as soil vapor intrusion. The potential exists for the inhalation of site-related contaminants in indoor air due to soil vapor intrusion for any future on-site construction.
Description:	The BCF Oil site is located within an urban, industrialized area of East Williamsburg, Brooklyn. Previously existing buildings and above ground storage tanks have been removed, and the property is being used as a Marshall’s impound lot. A National Grid facility borders the site on the north, Newtown Creek on the south, a city automobile impound lot on the east and a scrap metal processing facility on the west. The total area is 1.9 acres, of which 0.3 acres is land under water. The property was used as a petroleum distribution facility for many years, starting in the early 1900 s. In 1980, the terminal was modified for use as a waste oil processing facility, and was used for

BCF OIL REFINING, INC. (Continued) **1000272490**

waste oil recycling from 1980 to 1994. Routine sampling detected PCBs in the waste oil, and operations ceased in 1994. The property is zoned M3 (manufacturing/industrial), and it is currently used to store impounded automobiles. The site consists primarily of historic fill placed upon wetlands. Groundwater exists approximately 5 to 10 feet below grade and flows both to the north and south from the site. A remedial investigation of the site to determine the nature and extent of contamination has been completed. The site is currently being managed as a single operable unit. In addition, there is an open NYSDEC spill at this location; spill #9406807

Env Assessment: Not reported
HW Disposed/Quantity: Not reported
Assess/Env Prog: Not reported
Assess/Health Prob: Not reported
Site Description: Not reported

NY MANIFEST:
EPA ID: NYD068273044
Country: USA
Mailing Name: TANKS A LOT INC
Mailing Contact: MICHAEL CALLEIA
Mailing Address: 2890 WOODBRIDGE AVE
Mailing Address 2: Not reported
Mailing City: EDISON
Mailing State: NJ
Mailing Zip: 08837
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-387-9710

Document ID: NJA0191566
Manifest Status: Completed copy
Trans1 State ID: NJSWAS751
Trans2 State ID: Not reported
Generator Ship Date: 860521
Trans1 Recv Date: 860521
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860521
Part A Recv Date: 860610
Part B Recv Date: 860528
Generator EPA ID: NYD068273044
Trans1 EPA ID: NJD980650196
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: X726 - MISC OIL/GAS PRODUCTS (NJ ONLY)
Quantity: 12180
Units: P - Pounds
Number of Containers: 022
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 86

Document ID: NYG1885725
Manifest Status: Not reported

BCF OIL REFINING, INC. (Continued) **1000272490**

Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 05/17/2001
Trans1 Recv Date: 05/17/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/18/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: NY235541A
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 22961
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

Document ID: NYG1885734
Manifest Status: Not reported
Trans1 State ID: PAD008781072
Trans2 State ID: Not reported
Generator Ship Date: 05/17/2001
Trans1 Recv Date: 05/17/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/18/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: NY53412R
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 18343
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

Document ID: NYG1885743
Manifest Status: Not reported
Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 05/17/2001
Trans1 Recv Date: 05/17/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/18/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044

BCF OIL REFINING, INC. (Continued) **1000272490**

Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: NY235274A
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 19878
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

Document ID: NYG1885869
Manifest Status: Not reported
Trans1 State ID: PAD008781072
Trans2 State ID: Not reported
Generator Ship Date: 06/04/2001
Trans1 Recv Date: 06/04/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/05/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: 236049ANY
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 20267
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

Document ID: NYG1887561
Manifest Status: Not reported
Trans1 State ID: PAD008781072
Trans2 State ID: Not reported
Generator Ship Date: 05/30/2001
Trans1 Recv Date: 05/30/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/31/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: 170732ANY
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 18652
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.

BCF OIL REFINING, INC. (Continued) **1000272490**

Specific Gravity: 01.00
Year: 01

Document ID: NYG1887588
Manifest Status: Not reported
Trans1 State ID: PAD008781072
Trans2 State ID: Not reported
Generator Ship Date: 05/30/2001
Trans1 Recv Date: 05/30/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/31/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSDF ID: 236049ANY
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 20448
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

Document ID: TXA8258800
Manifest Status: Not reported
Trans1 State ID: OKD981588791
Trans2 State ID: Not reported
Generator Ship Date: 02/07/2001
Trans1 Recv Date: 02/07/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/09/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068273044
Trans1 EPA ID: TXD055141378
Trans2 EPA ID: Not reported
TSDF ID: 41038
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 16419
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

B321
ENE
< 1/8
0.020 mi.
105 ft.

Relative:
Higher

Actual:
13 ft.

BCF OIL
360 MASPETH AVE
BROOKLYN, NY

Site 8 of 20 in cluster B

Database(s): MOSF UST, MOSF AST, MANIFEST, NY Spills, NY Hist Spills, NPDES, MOSF

EDR ID Number: 1001754932
EPA ID Number: N/A

MOSF UST:

Facility ID:	2-2600
SWIS Code:	61
Facility Town:	Not reported
Contact Phone:	(718) 387-9710
Emerg Contact:	SALVATORE CORTESE
Emergency Telephone:	(718) 387-9710
CBS Number:	Not reported
SPDES Num:	0-036609
Total Tanks:	19
Total Capacity:	780574
Avg Throughput:	20000
License Stat:	3
Facility Status:	INACTIVE FACILITY
Facility Type:	APARTMENT BUILDING
Prod Xfer Options:	Tank Truck
Expiration Date:	/ /
Applic Rcvd:	02/09/1995
Operator:	SALVATORE CORTESE
Owner Name:	BCF OIL REFINING, INC
Owner Address:	360 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211-
Owner Telephone:	(718) 387-9710
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	First Owner
Mail To Name:	BCF OIL REFINING, INC
Mail To Address:	360 MASPETH AVENUE
Mail To Address 2:	Not reported
Mail City,St,Zip:	BROOKLYN, NY 11211-
Mail To Contact:	SALVATORE CORTESE
Mail To Telephone:	(718) 387-9710
Legal Agent Name:	GILBERT WALLACH, ESQ.
Legal Agent Address:	50 BROADWAY-25 FLOOR
Legal Agent City,St,Zip:	NEW YORK, NY 10004-
Date Filed:	00/86

Tank ID:	01
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking

BCF OIL (Continued) **1001754932**

Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	02
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	03
Tank Location:	UNDERGROUND
Install Date:	04/82

BCF OIL (Continued) **1001754932**

Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	06/94
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	04
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True

BCF OIL (Continued) **1001754932**

License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 05
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: 05/93
Date Closed: Not reported
Latitude: 40|43|40
Longitude: 73|54|52
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 06
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 20000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None

BCF OIL (Continued) **1001754932**

Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	07
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	06/94
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	08
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000

BCF OIL (Continued) **1001754932**

Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	09
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	20000
Product:	UNKNOWN
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /

BCF OIL (Continued) **1001754932**

Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 10
Tank Location: UNDERGROUND
Install Date: 01/89
Capacity (Gal): 6000
Product: UNKNOWN
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Wrapped (Piping)
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: 05/93
Date Closed: Not reported
Latitude: 40|43|40
Longitude: 73|54|52
Status of Data: Complete
Inspected Date: 07/09/1999
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: / /
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

Tank ID: 15
Tank Location: UNDERGROUND
Install Date: 04/82
Capacity (Gal): 50000
Product: NOS 5 OR 6 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Contain: Diking
Leak Detection: None
Overfill Protection: High Level Alarm

BCF OIL (Continued) **1001754932**

Dispenser:	Suction
Test Date:	05/93
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	16
Tank Location:	UNDERGROUND
Install Date:	04/82
Capacity (Gal):	100000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	18
Tank Location:	UNDERGROUND
Install Date:	04/85
Capacity (Gal):	4000
Product:	DIESEL

BCF OIL (Continued) **1001754932**

Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	None
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Suction
Test Date:	06/94
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/03/1995
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	19
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	550
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|43|40
Longitude:	73|54|52
Status of Data:	Complete
Inspected Date:	07/09/1999
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	/ /
Vessel Id:	Not reported

BCF OIL (Continued) **1001754932**

Renew Flag: True
Renew Date: 11/03/1995
Federal Id No: Not reported
COI Date: / /

MOSF:
Facility ID: 2-2600
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: Inactive
UTMX: 590372.16954999
UTMY: 4508045.77666

MOSF AST:
MOSF Number: 2-2600
SWIS Code: 61
Facility Town: Not reported
Facility Phone: (718) 387-9710
Emergency Contact Name: SALVATORE CORTESE
Emergency Contact Phone: (718) 387-9710
Total Tanks: 19
Total Capacity: 780574
Daily Throughput: 20000
License Status: 3
Facility Type: APARTMENT BUILDING
Product Transfer Operation: Tank Truck
Facility Status: INACTIVE FACILITY
Operator Name: SALVATORE CORTESE
Owner Name: BCF OIL REFINING, INC
Owner Address: 360 MASPETH AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211-
Owner Phone: (718) 387-9710
Owner Type: Corporate/Commercial
Owner Status: 1
Owner Mark: First Owner
Mailing Name: BCF OIL REFINING, INC
Mailing Address: 360 MASPETH AVENUE
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11211-
Mailing Contact: SALVATORE CORTESE
Mailing Phone: (718) 387-9710
Legal Agent Name: GILBERT WALLACH, ESQ.
Legal Agent Address: 50 BROADWAY-25 FLOOR
Legal Agent City,St,Zip: NEW YORK, NY 10004-
LIC Expires: / /

Tank ID: 11
Tank Location: ABOVEGROUND
Install Date: 04/33
Product: NOS 5 OR 6 FUEL OIL
Tank Status: Temporarily Out Of Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: 1
Pipe Location: Aboveground

BCF OIL (Continued) **1001754932**

Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	12
Tank Location:	ABOVEGROUND
Install Date:	04/33
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported

BCF OIL (Continued) **1001754932**

Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	14
Tank Location:	ABOVEGROUND
Install Date:	04/33
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	05/93
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	17
Tank Location:	ABOVEGROUND
Install Date:	04/51
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground

BCF OIL (Continued) **1001754932**

Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	8
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	06/94
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	110000
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

Tank ID:	20
Tank Location:	ABOVEGROUND
Install Date:	04/82
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	24
Lat/Long:	40|43|40 / 73|54|52
Federal ID:	Not reported
Inspected Date:	07/09/1999
Inspector:	AS
Renew Date:	11/03/1995
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported

BCF OIL (Continued) **1001754932**

Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	/ /
Date License Application Received:	02/09/1995
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-036609
Date Legal Agent Filed with Secretary of State:	00/86

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NY MANIFEST:

EPA ID:	NYD980647283
Country:	USA
Mailing Name:	NYSDEC DER - BCF OIL REFINING INC
Mailing Contact:	BCF OIL REFINERY INC
Mailing Address:	625 B'WAY
Mailing Address 2:	Not reported
Mailing City:	ALBANY
Mailing State:	NY
Mailing Zip:	12233
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-387-9710

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD980059270
Trans2 State ID:	MAD084814136
Generator Ship Date:	2010-02-05
Trans1 Recv Date:	2010-02-05
Trans2 Recv Date:	2010-02-09
TSD Site Recv Date:	2010-02-23
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980647283
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	Not reported
Quantity:	2255.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	11.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	000380355VES
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

BCF OIL (Continued) **1001754932**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD980059270
Trans2 State ID:	MAD084814136
Generator Ship Date:	2010-02-05
Trans1 Recv Date:	2010-02-05
Trans2 Recv Date:	2010-02-09
TSD Site Recv Date:	2010-02-23
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980647283
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	Not reported
Quantity:	1435.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	7.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	000380355VES
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD084814136
Trans2 State ID:	NJD080631369
Generator Ship Date:	2010-02-02
Trans1 Recv Date:	2010-02-02
Trans2 Recv Date:	2010-02-03
TSD Site Recv Date:	2010-02-12
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980647283
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	Not reported

BCF OIL (Continued) **1001754932**

Quantity:	4545.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	20.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006173466JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

NY Spills:

Site ID:	80009
Facility Addr2:	Not reported
Facility ID:	8701849
Spill Number:	8701849
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	6/4/1987
Reported to Dept:	6/4/1987
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	FLUSHING BAY
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Federal Government
Cleanup Ceased:	6/10/1987
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	6/10/1987
Remediation Phase:	0
Date Entered In Computer:	6/5/1987
Spill Record Last Update:	9/19/2003
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	74202
DEC Memo:	Not reported

BCF OIL (Continued) **1001754932**

Remarks: MALFUNCTION IN THE OIL/WATER SEPARATOR. USCG ON THE SCENE.

Material:

Site ID:	80009
Operable Unit ID:	906265
Operable Unit:	01
Material ID:	471741
Material Code:	1721A
Material Name:	SPDES DISCHARGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	80009
Operable Unit ID:	906265
Operable Unit:	01
Material ID:	471740
Material Code:	0002
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	211457
Facility Addr2:	Not reported
Facility ID:	9700680
Spill Number:	9700680
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	4/15/1997
Reported to Dept:	4/15/1997
CID:	369
Spill Cause:	Equipment Failure
Water Affected:	ENGLISH KILLS
Spill Source:	Major Facility > 400,000 gal

BCF OIL (Continued) **1001754932**

Spill Notifier:	Federal Government
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	4/16/1997
Remediation Phase:	0
Date Entered In Computer:	4/15/1997
Spill Record Last Update:	9/2/2003
Spiller Name:	SAL CORTESE
Spiller Company:	BCF OIL FACILITY
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	SAL CORTESE
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	74202
DEC Memo:	Not reported
Remarks:	USCG received notice from DEC Hussein- Report of a continuous discharge to Waterbody.

Material:

Site ID:	211457
Operable Unit ID:	1046964
Operable Unit:	01
Material ID:	337272
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

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BCF OIL (Continued) **1001754932**

NY Hist Spills:

Region of Spill:	2
Spill Number:	8701849
Investigator:	Not reported
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/04/1987 11:11
Reported to Dept Date/Time:	06/04/87 11:46
SWIS:	61
Spiller Name:	B.C.F. OIL
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	362 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NEW YORK
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	FLUSHING BAY
Spill Source:	01
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	06/10/87
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	06/10/87
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	06/05/87
Date Spill Entered In Computer Data File:	Not reported
Update Date:	07/29/87
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	10
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#4 FUEL OIL
Class Type:	#4 FUEL OIL

BCF OIL (Continued) **1001754932**

Times Material Entry In File: 1751
CAS Number: Not reported
Last Date: 19941205
Material Class Type: Hazardous Material
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: SPDES DISCHARGE
Class Type: SPDES DISCHARGE
Times Material Entry In File: 3
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Remark: MALFUNCTION IN THE OIL/WATER SEPARATOR. USCG ON THE SCENE.

Region of Spill: 2
Spill Number: 9700680
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/15/1997 14:00
Reported to Dept Date/Time: 04/15/97 15:03
SWIS: 61
Spiller Name: BCF OIL FACILITY
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: MR HUSSAIN DEC
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: ENGLISH KILLS
Spill Source: 03
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. No DEC Response. No corrective action required.
Spill Closed Dt: 04/16/97
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/15/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/18/98

BCF OIL (Continued) **1001754932**

Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: OTHER PETROLEUM
Class Type: OTHER PETROLEUM
Times Material Entry In File: 996
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Please refer to Spill No.9700679, 4/15/97. DEC sigona) reassigned from Miller on 9/18/98.
Remark: coast guard got call from dec mr hussain- reports that it is a continious release to waterbody

Region of Spill: 2
Spill Number: 8910891
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 02/14/1990 14:30
Reported to Dept Date/Time: 02/14/90 15:14
SWIS: 63
Spiller Name: BCF OIL INC.
Spiller Contact: Not reported
Spiller Phone: (718) 387-9710
Spiller Address: 360 MASPETH AVE
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: NEWTOWN CREEK
Spill Source: 12
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: 02/16/90
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False

BCF OIL (Continued) **1001754932**

Spill Class: Not reported
Spill Closed Dt: 02/16/90
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/28/90
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/18/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: USCG ON SCENE-BCF TO DO CLEAN UP

SPDES:

Permit Number: NY0036609
State-Region: 02
Expiration Date: 10/1/1997
Current Major Minor Status: Minor
Primary Facility SIC Code: 5093
State Water Body Name: NEWTOWN CK
Limit Set Status Flag: A
Total Actual Average Flow(MGD): 0.001
Total App Design Flow(MGD): Not reported
UDF1: Not reported
Lat/Long: 40.719806 / -73.925056
DMR Cognizant Official: SALVATORE CORTESE, PRESIDENT
UDF2: 001702
UDF3: SD
FIPS County Code: NY047
Supplemental Address: Not reported

Non-Gov Permit Affiliation Type Desc: DMR Mailing Address
Non-Gov Permit Org Formal Name: BCF OIL REFINING, INC
Non-Gov Permit Street Address: BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location: 360 MASPETH AVENUE
Non-Gov Permit City: BROOKLYN
Non-Gov Permit State Code: NY
Non-Gov Permit Zip Code: 11211

BCF OIL (Continued) **1001754932**

Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location:	360 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location:	360 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address

BCF OIL (Continued) **1001754932**

Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	BCF OIL REFINING, INC
Non-Gov Permit Supplemental Location:	360 MASPETH AVENUE
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	360 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010
UDF2:	001702
UDF3:	SD
FIPS County Code:	NY047
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Permit Street Address:	360 MASPETH AVENUE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	BROOKLYN
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	11211
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	BCF OIL REFINING, INC
Non-Gov Facility Street Address:	BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location:	360 MASPETH AVENUE
Non-Gov Facility City:	BROOKLYN
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	11211
State Water Body:	02030201010

BCF OIL (Continued) **1001754932**

UDF2: 001702
UDF3: SD
FIPS County Code: NY047
Supplemental Address: Not reported

Non-Gov Permit Affiliation Type Desc: Permittee
Non-Gov Permit Org Formal Name: BCF OIL REFINING, INC
Non-Gov Permit Street Address: 360 MASPETH AVENUE
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: BROOKLYN
Non-Gov Permit State Code: NY
Non-Gov Permit Zip Code: 11211
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: BCF OIL REFINING, INC
Non-Gov Facility Street Address: BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location: 360 MASPETH AVENUE
Non-Gov Facility City: BROOKLYN
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 11211
State Water Body: 02030201010

UDF2: 001702
UDF3: SD
FIPS County Code: NY047
Supplemental Address: Not reported

Non-Gov Permit Affiliation Type Desc: Permittee
Non-Gov Permit Org Formal Name: BCF OIL REFINING, INC
Non-Gov Permit Street Address: 360 MASPETH AVENUE
Non-Gov Permit Supplemental Location: Not reported
Non-Gov Permit City: BROOKLYN
Non-Gov Permit State Code: NY
Non-Gov Permit Zip Code: 11211
Non-Gov Facility Affiliation Type Desc: Owner
Non-Gov Facility Org Formal Name: BCF OIL REFINING, INC
Non-Gov Facility Street Address: BCF OIL REFINING, INC
Non-Gov Facility Supplemental Location: 360 MASPETH AVENUE
Non-Gov Facility City: BROOKLYN
Non-Gov Facility State Code: NY
Non-Gov Facility Zip Code: 11211
State Water Body: 02030201010

MOSF:
Facility ID: 2-2600
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: Inactive
UTMX: 590372.16954999
UTMY: 4508045.77666

B322 **BCF REFINING** **LTANKS** **S103481876**
ENE **360 MASPETH AVENUE** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.020 mi.
105 ft. **Site 9 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

LTANKS:

Site ID:	80010
Spill No:	9008251
Spill Date:	9/25/1990
Spill Cause:	Tank Failure
Spill Source:	Major Facility > 400,000 gal
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	9/2/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	10/26/1990
CID:	Not reported
Water Affected:	ENGLISH KILLS
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/5/1990
Spill Record Last Update:	9/2/2003
Spiller Name:	Not reported
Spiller Company:	BCF OIL REFINING
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	74202
Remarks:	SLICK OF OIL APPROX 8FT X 2FT FOUND ON SHORELINE ADJACENT TO PROPERTY,GROUND SATURATED WITH OIL, DEPLOYED BOOM, NYCDEP AT SCENE.

Material:

Site ID:	80010
Operable Unit ID:	945466
Operable Unit:	01
Material ID:	562071
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

BCF REFINING (Continued) **S103481876**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9008251
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	09/25/1990 11:00
Reported to Dept Date/Time:	10/26/90 17:30
SWIS:	61
Spiller Name:	BCF OIL REFINING
Spiller Contact:	Not reported
Spiller Phone:	(718) 387-9710
Spiller Address:	360 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spill Cause:	Unknown
Reported to Dept:	Surface Water
Water Affected:	LITTLE ENGLISH KILL
Spill Source:	01
Spill Notifier:	Local Agency
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/05/90
Date Spill Entered In Computer Data File:	Not reported
Update Date:	09/18/98
Is Updated:	False

Tank:

PBS Number:	Not reported

BCF REFINING (Continued) **S103481876**

Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/26/90: DEC REQUESTED THAT DEPT BE PROVIDED WITH HISTORY, BORING LOGS SITEDIAGRAM,ONGOING PROBLEM, USCG HAS BEEN FOLLOWING SLICK/SHEEN OF OIL SINCE 1987,MOSF PERSONNEL,REGIONAL ATTORNEY WILL FOLLOW UP.
Remark: SLICK OF OIL APPROX 8FT X 2FT FOUND ON SHORELINE ADJACENT TO PROPERTY,GROUND SATURATED WITH OIL, DEPLOYED BOOM, NYCDEP AT SCENE.

B323 **CALLEIA BROS INC** **RCRA-NonGen** **1000280034**
ENE **362 MASPETH AVE** **FINDS** **NYD980647283**
< 1/8 **BROOKLYN, NY 11211**
0.020 mi.
105 ft. **Site 10 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: CALLEIA BROS INC
Facility address: 362 MASPETH AVE
BROOKLYN, NY 112111704
EPA ID: NYD980647283
Mailing address: MASPETH AVE
BROOKLYN, NY 11211
Contact: ADAM GOOD
Contact address: MASPETH AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CALLEIA BROS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

CALLEIA BROS INC (Continued) **1000280034**

Owner/Op end date: Not reported

Owner/operator name: CALLEIA BROS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Consumer Electronics
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Oil-Based Finishes
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Other Universal Waste
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No

CALLEIA BROS INC (Continued) **1000280034**

Generated waste on-site: Not reported

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CALLEIA BROS INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: CALLEIA BROS INC
Classification: Not a generator, verified

Date form received by agency: 06/23/1982
Facility name: CALLEIA BROS INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/15/1994
Date achieved compliance: 08/31/1999
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/15/1989
Date achieved compliance: 08/31/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/13/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/28/1988
Date achieved compliance: 11/30/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/24/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

CALLEIA BROS INC (Continued) **1000280034**

Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/31/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/26/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/31/1999
Evaluation lead agency: State

Evaluation date: 11/15/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/31/1999
Evaluation lead agency: State

Evaluation date: 03/28/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/30/1988
Evaluation lead agency: State

FINDS:

Registry ID: 110004388797

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B324 **TANKS-A-LOT COMPANY** **HSWDS** **S108146424**
ENE **362 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.024 mi.
125 ft. **Site 11 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

HSWDS:
Facility ID: Not reported
Region: 2
Facility Status: Unknown
Owner Type: Puplic
Owner: David Calleia
Owner Address: 362 Maspeth Ave.
Owner Phone: (212)647-0700
Operator Type: Same
Operator: Unknown
Operator: Unknown
Operator Phone: Unknown

TANKS-A-LOT COMPANY (Continued) **S108146424**

EPA ID:	NYD000010024
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	None
RCRA Permitted:	Unknown
Site Code:	Leaking tanks, drums, lagoons, other containers
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	Unknown
Longitude:	Unknown
Acres:	0.00
Operator Date:	Unknown
Close Date:	Unknown
Completed:	Unknown
Active:	Not reported
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	None
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported

TANKS-A-LOT COMPANY (Continued) **S108146424**

Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

B325 **TANKS-A-LOT CO** **CERC-NFRAP** **1003863743**
ENE **362 MASPETH AVE** **NYD980509228**
< 1/8 **BROOKLYN, NY 11211**
0.024 mi.
125 ft. **Site 12 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

CERC-NFRAP:

Site ID:	0201827
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	04/01/1980
Priority Level:	Not reported

Action:	SITE INSPECTION
Date Started:	07/01/1980
Date Completed:	07/01/1980
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	07/01/1980
Priority Level:	Not reported

Action:	PRELIMINARY ASSESSMENT
Date Started:	Not reported
Date Completed:	07/01/1980
Priority Level:	Low priority for further assessment

B326
ENE
< 1/8
0.028 mi.
146 ft.

DITMAS OIL COMPANY
364 MASPETH AVENUE
BROOKLYN, NY

Site 13 of 20 in cluster B

NY Spills **S102143342**
NY Hist Spills **N/A**

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	118307
Facility Addr2:	Not reported
Facility ID:	9208027
Spill Number:	9208027
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	10/12/1992
Reported to Dept:	10/12/1992
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Citizen
Cleanup Ceased:	10/12/1992
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	10/12/1992
Remediation Phase:	0
Date Entered In Computer:	10/15/1992
Spill Record Last Update:	9/19/2003
Spiller Name:	ROBERTO PORCELLI
Spiller Company:	DITMAS OIL COMPANY
Spiller Address:	364 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	102823
DEC Memo:	Not reported
Remarks:	Air complaint.

Material:

Site ID:	118307
Operable Unit ID:	974831
Operable Unit:	01
Material ID:	408634
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

DITMAS OIL COMPANY (Continued) **S102143342**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9208027
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	10/12/1992 06:00
Reported to Dept Date/Time:	10/12/92 09:10
SWIS:	61
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Air
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Citizen
PBS Number:	Not reported
Cleanup Ceased:	10/12/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/12/92
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	10/15/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported

DITMAS OIL COMPANY (Continued) **S102143342**

Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: GAS FUMES.
Remark: Not reported

B327 **DITMAS TERMINAL - 364 MASPETH AVE** **RCRA-SQG** **1000227109**
ENE **364 MASPETH AVENUE** **FINDS** **NYD059358234**
< 1/8 **BROOKLYN, NY 11211** **MANIFEST**
0.028 mi.
146 ft. **Site 14 of 20 in cluster B**

Relative: Higher

Actual: 13 ft.

RCRA-SQG:
Date form received by agency: 01/01/2007
Facility name: DITMAS OIL ASSOCIATES INC
Facility address: 364 MASPETH AVE
BROOKLYN, NY 112111704
EPA ID: NYD059358234
Mailing address: MASPETH AVE
BROOKLYN, NY 11211
Contact: ROBERTO PORCELLI
Contact address: MASPETH AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: (718) 782-4200
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: GULF OIL CORPORATION
Owner/operator address: 433 HACKENSACK AVENUE
OPERCITY, NJ 99999
Owner/operator country: US
Owner/operator telephone: (201) 488-4700
Legal status: Private

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DITMAS OIL ASSOICATES INC
Owner/operator address: 364 MASPETH AVE
BROOKLYN, NY 11211
Owner/operator country: US
Owner/operator telephone: (718) 782-4200
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: DITMAS OIL ASSOCIATES INC
Classification: Small Quantity Generator

Date form received by agency: 08/06/1998
Facility name: DITMAS OIL ASSOCIATES INC
Classification: Small Quantity Generator

Date form received by agency: 11/19/1980
Facility name: DITMAS OIL ASSOCIATES INC
Classification: Not a generator, verified

Date form received by agency: 11/19/1980
Facility name: DITMAS OIL ASSOCIATES INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/13/2000
Date achieved compliance: 04/04/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/20/2000

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/11/1984
Date achieved compliance: 07/23/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/27/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/13/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/04/2001
Evaluation lead agency: State

Evaluation date: 09/09/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/08/1999
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 07/11/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/23/1985
Evaluation lead agency: State

FINDS:

Registry ID: 110001589816

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants.

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NY MANIFEST:

EPA ID:	NYD059358234
Country:	USA
Mailing Name:	DITMAS OIL ASSOCIATES
Mailing Contact:	WILLIAM J. KAISER
Mailing Address:	364 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Mailing Zip: 11211
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-388-8114

Document ID: CTF0576241
Manifest Status: Not reported
Trans1 State ID: 59030PA
Trans2 State ID: Not reported
Generator Ship Date: 12/14/2004
Trans1 Recv Date: 12/14/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/14/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD059358234
Trans1 EPA ID: NYD064743263
Trans2 EPA ID: Not reported
TSDF ID: CTD021816
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 03000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 04

Document ID: CTF0576243
Manifest Status: Not reported
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 12/15/2004
Trans1 Recv Date: 12/15/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/15/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD059358234
Trans1 EPA ID: NYD064743263
Trans2 EPA ID: Not reported
TSDF ID: CTD021816
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 03000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 04

Document ID: CTF0576244
Manifest Status: Not reported
Trans1 State ID: 509030PA

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Trans2 State ID:	Not reported
Generator Ship Date:	12/21/2004
Trans1 Recv Date:	12/21/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/21/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD059358234
Trans1 EPA ID:	NYD064743263
Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04

Document ID:	CTF0576245
Manifest Status:	Not reported
Trans1 State ID:	59070PA
Trans2 State ID:	Not reported
Generator Ship Date:	12/20/2004
Trans1 Recv Date:	12/20/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/20/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD059358234
Trans1 EPA ID:	NYD064743263
Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816
Waste Code:	U001 - ACETALDEHYDE
Quantity:	03000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04

Document ID:	CTF0577151
Manifest Status:	Not reported
Trans1 State ID:	59030PA
Trans2 State ID:	Not reported
Generator Ship Date:	12/27/2004
Trans1 Recv Date:	12/27/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/28/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD059358234
Trans1 EPA ID:	NYD064743263

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Trans2 EPA ID:	Not reported
TSDF ID:	CTD021816
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	04

Document ID:	NYO1652985
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	NYJA021
Generator Ship Date:	820122
Trans1 Recv Date:	820122
Trans2 Recv Date:	820126
TSD Site Recv Date:	820126
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD059358234
Trans1 EPA ID:	NYD089806012
Trans2 EPA ID:	Not reported
TSDF ID:	NJD096865837
Waste Code:	X000 - DECUSE ONLY
Quantity:	00100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	82

Document ID:	CTF0964090
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	07/20/2001
Trans1 Recv Date:	07/20/2001
Trans2 Recv Date:	07/27/2001
TSD Site Recv Date:	07/27/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD059358234
Trans1 EPA ID:	CTD021816889
Trans2 EPA ID:	Not reported
TSDF ID:	AE364L
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

DITMAS TERMINAL - 364 MASPETH AVE (Continued) **1000227109**

Year: 01

Document ID: NYG2413593
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: OHR000028837
Generator Ship Date: 07/29/2002
Trans1 Recv Date: 07/29/2002
Trans2 Recv Date: 08/07/2002
TSD Site Recv Date: 08/07/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD059358234
Trans1 EPA ID: OHD980897656
Trans2 EPA ID: Not reported
TSDF ID: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00330
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 02

Document ID: NYG0425394
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 08/11/1998
Trans1 Recv Date: 08/11/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/11/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD059358234
Trans1 EPA ID: NYD077444263
Trans2 EPA ID: Not reported
TSDF ID: PX1664
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

B328 **GASETERIA OIL CORP** **NY Spills** **S103827207**
ENE **364 MASPETH AV** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.028 mi.
146 ft. **Site 15 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	112707
Facility Addr2:	Not reported
Facility ID:	9812647
Spill Number:	9812647
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	1/7/1999
Reported to Dept:	1/13/1999
CID:	384
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/19/2003
Remediation Phase:	0
Date Entered In Computer:	1/13/1999
Spill Record Last Update:	9/19/2003
Spiller Name:	OSCAR PORCELLI
Spiller Company:	GASETERIA OIL CORP
Spiller Address:	364 MASPETH AVE
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller Company:	001
Contact Name:	OSCAR PORCELLI
Contact Phone:	(718) 782-4200
DEC Region:	2
DER Facility ID:	102823
DEC Memo:	Not reported
Remarks:	LEAKED FROM AN UNDERGROUND PIPE. CLEAN UP WILL BE COMPLETED BY CALLER'S COMPANY. SAMPLES WERE TAKEN.

Material:

Site ID:	112707
Operable Unit ID:	1069897
Operable Unit:	01
Material ID:	312923
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

GASETERIA OIL CORP (Continued) **S103827207**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9812647
Investigator:	TIBBE/JEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	01/07/1999 12:00
Reported to Dept Date/Time:	01/13/99 12:50
SWIS:	61
Spiller Name:	GASETERIA OIL CORP
Spiller Contact:	OSCAR PORCELLI
Spiller Phone:	(718) 782-4200
Spiller Contact:	OSCAR PORCELLI
Spiller Phone:	(718) 782-4200
Spiller Address:	364 MASPETH AV
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	01/13/99
Date Spill Entered In Computer Data File:	Not reported
Update Date:	01/24/00
Is Updated:	False

GASETERIA OIL CORP (Continued) **S103827207**

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: LEAKED FROM AN UNDERGROUND PIPE. CLEAN UP WILL BE COMPLETED BY CALLER S COMPANY. SAMPLES WERE TAKEN.

B329 **IN PARKING LOT** **LTANKS** **S107658768**
ENE **364 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.028 mi.
146 ft. **Site 16 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

LTANKS:
Site ID: 360969
Spill No: 0514281
Spill Date: 3/14/2006
Spill Cause: Tank Overfill
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 4/24/2006
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: HRPATEL
Referred To: Not reported
Reported to Dept: 3/14/2006
CID: 444
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 3/14/2006
Spill Record Last Update: 4/24/2006
Spiller Name: JIM CAREY
Spiller Company: IN PARKING LOT
Spiller Address: 364 MASPETCH AVE

IN PARKING LOT (Continued) **S107658768**

Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	JIM CAREY
Spiller Phone:	(646) 772-5889
Spiller Extention:	CELL
DEC Region:	2
DER Facility ID:	102823
Remarks:	STORAGE TANK OVERFILL AND IN PROCESS OF CLEANING UP

Material:

Site ID:	360969
Operable Unit ID:	1118070
Operable Unit:	01
Material ID:	2108583
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

B330 **DITMAS OIL COMAPNY** **MOSF UST** **S103275710**
ENE **364 MASPETH AVENUE** **CBS AST** **N/A**
< 1/8 **BROOKLYN, NY** **MOSF AST**
0.028 mi. **NY Spills**
146 ft. **Site 17 of 20 in cluster B** **NY Hist Spills**
AIRS
Relative: **CBS**
Higher **MOSF**

Actual:
13 ft.

MOSF UST:

Facility ID:	2-1340
SWIS Code:	61
Facility Town:	NEW YORK CITY
Contact Phone:	(718) 782-4200
Emerg Contact:	ROBERTO PORCELLI
Emergency Telephone:	(718) 782-4200
CBS Number:	Not reported
SPDES Num:	0-005789
Total Tanks:	19
Total Capacity:	3515318

DITMAS OIL COMAPNY (Continued) **S103275710**

Avg Throughput:	560000
License Stat:	1
Facility Status:	ACTIVE FACILITY
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AD
Expiration Date:	03/31/2002
Applic Rcvd:	01/05/2001
Operator:	ROBERTO PORCELLI
Owner Name:	MALU PROPERTIES, INC.
Owner Address:	364 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211-
Owner Telephone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Status:	2
Owner Mark:	Second Owner
Mail To Name:	DITMAS OIL ASSOCIATES, INC.
Mail To Address:	364 MASPETH AVENUE
Mail To Address 2:	Not reported
Mail City,St,Zip:	BROOKLYN, NY 11211-
Mail To Contact:	ROBERTO PORCELLI
Mail To Telephone:	(718) 782-4200
Legal Agent Name:	FRIEDLAND, LEIFFER, ROBBINS, LLP
Legal Agent Address:	233 BROADWAY
Legal Agent City,St,Zip:	NEW YORK, NY 10274-
Date Filed:	Not reported

Tank ID:	001
Tank Location:	UNDERGROUND
Install Date:	01/70
Capacity (Gal):	4000
Product:	DIESEL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	13
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	Impressed Current
Second Contain:	Other
Leak Detection:	Other
Overfill Protection:	53
Dispenser:	Suction
Test Date:	12/98
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

COI Date: / /

Tank ID: 002
Tank Location: UNDERGROUND
Install Date: 04/76
Capacity (Gal): 2000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: Temporarily Out Of Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: Impressed Current
Second Contain: Other
Leak Detection: None
Overfill Protection: 53
Dispenser: Suction
Test Date: 12/98
Date Closed: Not reported
Latitude: 40|43|05
Longitude: 73|55|40
Status of Data: Minor Errors
Inspected Date: 10/26/1998
Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: 04/01/2001
Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 003
Tank Location: UNDERGROUND
Install Date: 04/76
Capacity (Gal): 1080
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: Temporarily Out Of Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Contain: Other
Leak Detection: None
Overfill Protection: None
Dispenser: Suction
Test Date: 12/98
Date Closed: Not reported
Latitude: 40|43|05

DITMAS OIL COMAPNY (Continued) **S103275710**

Longitude:	73|55|40
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	004
Tank Location:	UNDERGROUND
Install Date:	02/83
Capacity (Gal):	1080
Product:	UNKNOWN
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Contain:	Other
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Gravity
Test Date:	02/99
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	005
Tank Location:	UNDERGROUND
Install Date:	11/68
Capacity (Gal):	1080
Product:	UNKNOWN
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating

DITMAS OIL COMAPNY (Continued) **S103275710**

Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Contain:	Other
Leak Detection:	None
Overfill Protection:	None
Dispenser:	Gravity
Test Date:	12/98
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Minor Errors
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	108
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	244964
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Complete
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

DITMAS OIL COMAPNY (Continued) **S103275710**

Tank ID:	109
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	245101
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Complete
Inspected Date:	10/26/1998
Inspector Initials:	AS
Inspector Status:	Not reported
Pipe Flag:	True
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	110
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	288643
Product:	DIESEL
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispenser:	Submersible
Test Date:	08/98
Date Closed:	Not reported
Latitude:	40|43|05
Longitude:	73|55|40
Status of Data:	Complete
Inspected Date:	10/26/1998

DITMAS OIL COMAPNY (Continued) **S103275710**

Inspector Initials: AS
Inspector Status: Not reported
Pipe Flag: True
License Issued: 04/01/2001
Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

MOSF:
Facility ID: 2-1340
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: No Longer MOSF
UTMX: 590531
UTMY: 4508105

CBS AST:
CBS Number: 2-000328
Region: STATE
ICS Number: Not reported
PBS Number: Not reported
MOSF Number: 2-1340
Telephone: (718) 782-4200
Facility Town: NEW YORK CITY
Operator: ROBERTO PORCELLI
Emrgncy Contact: ROBERTO PORCELLI
Emrgncy Phone: (718) 782-4200
Expiration Date: 03/23/2003
Owner Name: MALU PROPERTIES, INC.
Owner Address: 364 MASPETH AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Telephone: (718) 782-4200
Owner type: Corporate/Commercial
Facility Type: RETAIL GASOLINE SALES
Mail Name: DITMAS OIL ASSOCIATION
Mail Contact Addr: 364 MASPETH AVENUE
Mail Contact Addr2: Not reported
Mail Contact Contact: MR. ROBERTO PORCELLI
Mail Contact City,St,Zip: BROOKLYN, NY 11211
Mail Phone: (718) 782-4200
SPDES Number: -
Facility Status: ACTIVE FACILITY
Owner Sub Type: Not reported

Tank Id: 10
Date Entered: 01/21/1997
Capacity (Gal): 12500
Chemical: Xylene (mixed)
Tank Closed: Not reported
Tank Status: In Service
Tank Type: Steel/carbon steel
Install Date: 07/96
Certified Date: 01/24/2001

DITMAS OIL COMAPNY (Continued) **S103275710**

CAS Number:	1330207
Substance:	More than one Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Intrnl Protection:	Epoxy Liner
Extrnl Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	1
Pipe Containment:	None
Tank Containment:	Diking
Leak Detection:	None
Overfill Protection:	High Level Alarm,Fiberglass
Haz Percent:	52
Total Tanks:	1
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	6101
Lat/Long:	40|43|05 / 73|55|40
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	Not reported
Is it There:	F
Deliquent:	F
Date Expired:	Not reported
Owner Mark:	2
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	12/15/2000
Total Capacity of All Active Tanks(gal):	12500

MOSF AST:

MOSF Number:	2-1340
SWIS Code:	61
Facility Town:	NEW YORK CITY
Facility Phone:	(718) 782-4200
Emergency Contact Name:	ROBERTO PORCELLI
Emergency Contact Phone:	(718) 782-4200
Total Tanks:	19
Total Capacity:	3515318
Daily Throughput:	560000
License Status:	1
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Product Transfer Operation:	AD
Facility Status:	ACTIVE FACILITY
Operator Name:	ROBERTO PORCELLI
Owner Name:	MALU PROPERTIES, INC.
Owner Address:	364 MASPETH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211-
Owner Phone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Status:	2
Owner Mark:	Second Owner

DITMAS OIL COMAPNY (Continued) **S103275710**

Mailing Name:	DITMAS OIL ASSOCIATES, INC.
Mailing Address:	364 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211-
Mailing Contact:	ROBERTO PORCELLI
Mailing Phone:	(718) 782-4200
Legal Agent Name:	FRIEDLAND, LEIFFER, ROBBINS, LLP
Legal Agent Address:	233 BROADWAY
Legal Agent City,St,Zip:	NEW YORK, NY 10274-
LIC Expires:	03/31/2002

Tank ID:	101
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	97812
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	Temporarily Out Of Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	102
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	1

DITMAS OIL COMAPNY (Continued) **S103275710**

Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	97812
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	Temporarily Out Of Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	103
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	UNLEADED GASOLINE
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	10/97
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	88379
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True

DITMAS OIL COMAPNY (Continued) **S103275710**

Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	Temporarily Out Of Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	104
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Fiberglass Liner (FRP)
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/97
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	177968
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	Temporarily Out Of Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Tank ID:	105
Tank Location:	ABOVEGROUND
Install Date:	12/65
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	1

DITMAS OIL COMAPNY (Continued) **S103275710**

Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	8
Leak Detection:	35
Overfill Protection:	23
Dispensing Mthd:	Suction
Test Date:	11/00
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	194819
Lat/Long:	40|43|05 / 73|55|40
Federal ID:	Not reported
Inspected Date:	10/26/1998
Inspector:	AS
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	Temporarily Out Of Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-005789
Date Legal Agent Filed with Secretary of State:	Not reported

Click this hyperlink while viewing on your computer to access
8 additional NY_AST_MOS: record(s) in the EDR Site Report.

NY Spills:

Site ID:	112706
Facility Addr2:	Not reported
Facility ID:	9006603
Spill Number:	9006603
Facility Type:	ER
SWIS:	2401
Investigator:	LXZIELIN
Referred To:	Not reported
Spill Date:	9/15/1990
Reported to Dept:	9/15/1990
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	LITTLE ENGLISH CHANN
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not Closed
Remediation Phase:	5

DITMAS OIL COMAPNY (Continued) **S103275710**

Date Entered In Computer: 10/30/1990
Spill Record Last Update: 3/3/2011
Spiller Name: OSCAR PORCELLI
Spiller Company: DITMAS OIL COMAPNY
Spiller Address: 364 MASPETH AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 102823
DEC Memo: 03/03/11 - LZ The February 14, 2011 RAWP (eDocs) has been approved 11/02/10 - LZ Has reviewed and approves a CEUS Engineering request for a 90-day extension to collect additional data, design a petroleum recovery system, and submit a revised remedial action work plan. The work plan to be submitted by January 31, 2011. In eDocs is the October 29, 2010 Third Quarter 2010 report. 10/12/10 - LZ The July 30, 2010, quarterly report (eDocs) by CEUS Engineering, P.C., proposes installation of recovery wells south of MW-2 where free product still exists. After five wells are installed, vacuum truck extraction will be performed and its results analyze to determine whether to continue weekly vacuuming or to install a recovery system. 04/22/10 - LZ Staff reviewed the March 31, 2010 report(eDocs)prepared by CEUS Engineering, P.C. To improve the effectiveness of bioremediation, CEUS Engineering proposes the complete extraction of free product. Vacuum-enhanced product recovery will be conducted using temporary extraction points in the vicinity of MW-2 until free product is removed, while the bioremediation process is suspended. Bioremediation will resume in the fall of 2010, utilizing monthly bio-applications, and the process will be monitored by sampling performed quarterly. Staff approved the proposed modifications to product recovery and bioremediation operations as well as the proposed schedule of the future activities requiring that vacuum-enhanced product recovery must be conducted at least weekly. 02/12/10 - LZ John Rhodes (phone 646-465-2494), since his comany CEUS took over the project, requested an extension to submit the report by March 31, 2010. Request granted. 10/27/09 - LZ Reviewed the AST quarterly report (eDocs) that covers April - June 2009 activities. Monthly gauging were conducted in 17 onsite and offsite wells. Well MW-2 exhibited free product during every gauging (0.006 -0.07 foot). 09/16/09 - LZ E-mailed Chris Tomasello of AST, LLC requesting a 2nd quarter 2009 report be submitted by September 22th. In addition to previous reports, this report should include the amount of recovered product and all, listed in TAGM 4046, VOCs, SVOCs, and MTBE being analyzed (we spoke about this in April). 05/04/09 - LZ The May 1, 2009, Advanced Site Restoration Quarterly Status Report (eDocs) covers remedial activities from January to April 2009. The monitoring well network was gauged on January 6, February 6, and March 4, 2009, and sampled on April 13, 2009. Gauging was performed at MW-2 through MW-6, MW-8, MW-10, MW-16, MW-17, MW-19, and MW-21.The groundwater samples were analyzed for VOCs, including BTEX and MTBE. Total BTEX concentrations ranged from non-detected to 350 ug/l (MW-10). MTBE concentrations ranged from non-detected to 11 ug/l (MW-21). Concentration of BTEX in excess of applicable NYSDEC GWQS were detected in 3 groundwater samples collected during this groundwater sampling event. The next sampling event is scheduled for July, 2009. LNAPL was last detected on March 6, 2009 in MW-2 and was bailed out

DITMAS OIL COMAPNY (Continued) **S103275710**

from this well. 05/04/09 - LZ The October-December 2008 quarterly report (eDocs) prepared by Advanced Site Restoration, indicates that 500 gallons of Bio Rem LLC H-10 were pumped monthly into the sit's bio-irrigation system. Since October 2006, total 53.5 gallons of LNAPL have been removed from the ground. Free product still exists in MW-2 and MW-17. Twelve wells (MW-2 through MW-6, MW-8, MW-10, MW-16, MW-17, and MW-19 through MW-21) were gauged on 10/01/08, 11/03/08, and 12/17/08. On October 1, 2008, monitoring wells MW-3 through MW-6, MW-8, MW-10, MW-16, and MW-19 were sampled: total BTEX concentration range was found from non-detected to 68 ug/l (MW-19); MTBE concentration range was found from non-detected to 9 ug/l(MW-5). 06/16/08 - LZ A report, dated April 2008, prepared by the ASR, provides data concerning remediation efforts and the level of current contamination at the site. From October 2006 to February 2008, 53.5 gallons of LNAPL has been extracted from groundwater. The ASR has applied 30,000 gallons of bio solution-BioREm H-10. Total BTEX has decreased in all monitoring wells, except MW-2. Free product is still in MW-2 and MW-17. 08/08/06 -Zielinski A site visit and a meeting with Mr. Tomasello of ASR. Sent a letter to Mr. Tomasello((see eDocs) requesting installation of three additional wells, reinstallation of MW1, MW11, and W9. 07/18/06 - Zielinski A review of the July 2006 monthly montoring report received from Advanced Site Restoration, LLC,(ASR) indicates that at wells MW-2 and MW-6 concentraction of benzene and total BTEX concentration is relatively high. Results from other seven wells indicate low contamination of groundwater. In August, staff will visit the site. In August, ASR will submit a quarterly report regarding the status of remedation process at the site. 08/18/04 - Zielinski In its letter of August 18, 2004, the department requested that the delineation of petrolum contamination had to be performed by Ditmas Oil Association. In addition, a remedial action plan must be submitted by the facility. These documents have not been received by the department, a review of files on July 5, 2006, shows. 4/21/04 - This project is re-assigned to Zhao from Sigona. Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHAO" This site spill cleanup has been consolidated under Spill No. 9006603. 09/15/90: SPILLER WILL DISPOSE OF SOIL PROPERLY & ASSURE WARNING SYSTEM IS IN PROPER WORKING ORDER, SPILL TO BE REFERRED TO MOSF COORDINATOR. DEC Sigona performed follow-up investigation and discovered groundwater contamination. Site is under a consent order to performed remediation of groundwater and tidal wetlands.

Remarks: GASOLINE Spill into secondary containment - NYCDEP,USCG,NYCFD ON SCENE, ALARM FAILURE CAUSED PRODUCT TO EXIT THROUGH VENT IN FIRE EXTINGUISHING SYSTEM,APPROX 200 CU YDS OF CONTAMINATED SOIL.

Material:

Site ID:	112706
Operable Unit ID:	944116
Operable Unit:	01
Material ID:	434056
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1000
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Oxygenate:	True
Site ID:	112706
Operable Unit ID:	944116
Operable Unit:	01
Material ID:	572591
Material Code:	1213A
Material Name:	MTBE (METHYL-TERT-BUTYL ETHER)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	True

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	118306
Facility Addr2:	Not reported
Facility ID:	9011585
Spill Number:	9011585
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	2/4/1991
Reported to Dept:	2/4/1991
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Fire Department
Cleanup Ceased:	2/5/1991
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	2/5/1991
Remediation Phase:	0
Date Entered In Computer:	2/11/1991
Spill Record Last Update:	9/19/2003
Spiller Name:	ROBERTO PORTCELLI
Spiller Company:	DITMAS OIL COMAPNY'
Spiller Address:	364 MASPETH AVENUE

DITMAS OIL COMAPNY (Continued) **S103275710**

Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	102823
DEC Memo:	Not reported
Remarks:	CAROLINA TRUCKING 414 MASPETH COMPLAINED OF GASOLINE ODORS,NYCFD HAZMAT & NYCDEP HAZMAT RESPONDED,OBSERVED AIR RELEASE FROM VENTS OF TANKS #108,109 &110,TOOK READINGS OF 29%LEL 10FT FROM VENTS

Material:

Site ID:	118306
Operable Unit ID:	948604
Operable Unit:	01
Material ID:	428121
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9006603
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	09/15/1990 21:22
Reported to Dept Date/Time:	09/15/90 22:02
SWIS:	61
Spiller Name:	TERMINAL CORP/JANUS PETRO
Spiller Contact:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Spiller Phone: (718) 388-6963
Spiller Address: 364 MASPETH AVE
Spiller City,St,Zip: BROOKLYN, NY
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: LITTLE ENGLISH CHANN
Spill Source: 01
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates a file or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/30/90
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/18/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 1000
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 09/15/90: SPILLER WILL DISPOSE OF SOIL PROPERLY ASSURE WARNING SYSTEM IS IN PROPER WORKING ORDER, SPILL TO BE REFERRED TO MOSF COORDINATOR.
Remark: UNKNOWN SOURCE, GASOLINE CONTAINED WITHIN DIKE, NYCDEP,USCG,NYCFD ON SCENE, ALARM FAILURE CAUSED PRODUCT TO EXIT THROUGH VENT IN FIRE EXTINGUISHING SYSTEM,APPROX 200 CU YDS OF CONTAMINATED SOIL.

Region of Spill: 2
Spill Number: 9011585
Investigator: ELBURN
Caller Name: Not reported
Caller Agency: Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/04/1991 18:30
Reported to Dept Date/Time:	02/04/91 18:46
SWIS:	61
Spiller Name:	TERMINALLE
Spiller Contact:	Not reported
Spiller Phone:	( ) -
Spiller Address:	MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spill Cause:	Equipment Failure
Reported to Dept:	Air
Water Affected:	Not reported
Spill Source:	03
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	02/05/91
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	02/05/91
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	02/11/91
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	02/05/91: BUCKEYE TRANSFER WAS OCCURING FROM 17:30 FOR 1 1/2HRS TO MOUNDED TANKS RELEASING THE ODOR PROBLEM,TERMINVALLE INVESTIGATED WITH THE NYCFD,MAY BE RELATED TO A COMPRESSOR OVERLOAD OF VAPOR RECOVERY.

DITMAS OIL COMAPNY (Continued) **S103275710**

Remark: CAROLINA TRUCKING 414 MASPETH COMPLAINED OF GASOLINE ODORS,NYCFD HAZMAT NYCDEP HAZMAT RESPONDED,OBSERVED AIR RELEASE FROM VENTS OF TANKS 108,109 110,TOOK READINGS OF 29 LEL 10FT FROM VENTS

AIRS:

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	PM25-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00566579
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.08804
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00736999
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7440473
Epa Control Code:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Contol Eff: Not reported
Emissions: 0.0031
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610100163
Emission Unit Id: U00103
Process Id: 010EI
Contaminant Name/cas: 7439965
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0001
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610100163
Emission Unit Id: U00103
Process Id: 010EI
Contaminant Name/cas: 7439921
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0076
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610100163
Emission Unit Id: EI0001
Process Id: E01EI
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 13.125
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610100163
Emission Unit Id: 1TANKS
Process Id: GASFP
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Emissions:	7.1903652
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	1330207
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	4.44000005
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	108883
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	10.9300003
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	1634044
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	3350
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	1330207
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	3150

DITMAS OIL COMAPNY (Continued) **S103275710**

Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	110543
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	840
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	100414
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	1100
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	110543
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	33.2599983
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	NH3
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	4.96000003
Unit:	LB

DITMAS OIL COMAPNY (Continued) **S103275710**

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7440020
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	50000
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.28999999
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	71432
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	1100
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	VOC
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00089499
Unit:	TON

Permit Type:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7440417
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	206440
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	100414
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	8.42000007
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7439976
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	1634044
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	1119
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1TANKS
Process Id:	GASFP
Contaminant Name/cas:	71432
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	20.959999
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	VOC
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	6.3565
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0744
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7782492
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0155
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7440439
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	7440382
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported

DITMAS OIL COMAPNY (Continued) **S103275710**

County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	U00103
Process Id:	010EI
Contaminant Name/cas:	71432
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.01
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610100163
Emission Unit Id:	1RACKS
Process Id:	RGSFP
Contaminant Name/cas:	108883
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	2100
Unit:	LB

CBS:

CBS Number:	2-000328
Program Type:	CBS
Dec Region:	2
Expiration Date:	N/A
Facility Status:	Unregulated
UTMX:	590476.38523999
UTMY:	4508036.2725299

MOSF:

Facility ID:	2-1340
Program Type:	MOSF
Dec Region:	2
Expiration Date:	N/A
Tank Status:	No Longer MOSF
UTMX:	590531
UTMY:	4508105

B331 **GASETERIA OIL CORP. OFFICE** **UST** **U004107549**
ENE **364 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.028 mi.
146 ft. **Site 18 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

UST:

Facility Id:	2-610575
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2014/03/31
UTM X:	590381.63797000004
UTM Y:	4508048.4128200002

GASETERIA OIL CORP. OFFICE (Continued) **U004107549**

Affiliation Records:

Site Id:	381754
Affiliation Type:	On-Site Operator
Company Name:	GASETERIA OIL CORP. OFFICE
Contact Type:	Not reported
Contact Name:	GASETERIA OIL CORP.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 780-4200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	5/21/2007

Site Id:	381754
Affiliation Type:	Mail Contact
Company Name:	GASETERIA OIL CORP.
Contact Type:	VICE PRESIDENT
Contact Name:	ROBERTO PORCELLI
Address1:	364 MASPETH AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 782-4200
Phone Ext:	Not reported
Email:	ROBERTOPORCELLI@GASETERIA.COM
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/6/2009

Site Id:	381754
Affiliation Type:	Emergency Contact
Company Name:	GASETERIA OIL CORP.
Contact Type:	Not reported
Contact Name:	ROBERTO PORCELLI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-4200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	5/21/2007

Site Id:	381754
Affiliation Type:	Owner

GASETERIA OIL CORP. OFFICE (Continued) **U004107549**

Company Name:	MALU PROPERTIES, INC.
Contact Type:	VICE PRESIDENT
Contact Name:	ROBERTO PORCELLI
Address1:	364 MASPETH AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 782-4200
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	DXLIVING
Date Last Modified:	6/5/2007

Equipment Records:

G99 - Tank Secondary Containment - Other
F08 - Pipe External Protection - Retrofitted Impressed Current
L99 - Piping Leak Detection - Other
C02 - Pipe Location - Underground/On-ground
D10 - Pipe Type - Copper
J02 - Dispenser - Suction
H99 - Tank Leak Detection - Other
A00 - Tank Internal Protection - None
B08 - Tank External Protection - Retrofitted Impressed Current
B01 - Tank External Protection - Painted/Asphalt Coating
K01 - Spill Prevention - Catch Basin
I03 - Overfill - Automatic Shut-Off
E00 - Piping Secondary Containment - None

Tank Info:

Site ID:	381754
Tank Number:	002
Tank ID:	217308
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	4/1/1976
Capacity Gallons:	2000
Tightness Test Method:	21
Next Test Date:	9/19/2013
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	9/19/2008
Register:	True
Modified By:	bkfalvey
Last Modified:	10/6/2008

B332 **U.S. TOW, INC.** **AST** **A100297798**
ENE **364 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.028 mi.
146 ft. **Site 19 of 20 in cluster B**

Relative:
Higher

Actual:
13 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-610223
Program Type:	PBS
UTM X:	590381.63797000004
UTM Y:	4508048.4128200002
Expiration Date:	N/A

Affiliation Records:

Site Id:	364779
Affiliation Type:	Owner
Company Name:	THOMAS J RUSSO
Contact Type:	PRESIDENT
Contact Name:	THOMAS J. RUSSO
Address1:	14 COLES STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11231
Country Code:	001
Phone:	(718) 246-5566
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/1/2006

Site Id:	364779
Affiliation Type:	On-Site Operator
Company Name:	U.S. TOW, INC.
Contact Type:	Not reported
Contact Name:	U.S. TOW INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 246-5566
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/1/2006

Site Id:	364779
Affiliation Type:	Emergency Contact
Company Name:	THOMAS J RUSSO
Contact Type:	Not reported
Contact Name:	MIKE GORDON
Address1:	Not reported
Address2:	Not reported

U.S. TOW, INC. (Continued) **A100297798**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 369-8849
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/1/2006

Site Id:	364779
Affiliation Type:	Mail Contact
Company Name:	U.S. TOW INC.
Contact Type:	Not reported
Contact Name:	MIKE GORDON
Address1:	364 MASPETH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 246-5566
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	6/2/2006

Equipment Records:

J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
G01 - Tank Secondary Containment - Diking (Aboveground)
B04 - Tank External Protection - Fiberglass
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
I05 - Overfill - Vent Whistle

Tank Info:

Tank Number:	001
Tank Id:	212067
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2005
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	3/15/2007
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/29/2009

B333
ENE
< 1/8
0.028 mi.
146 ft.

DITMAS OIL ASSOCIATES INC
364 MASPETH AVE
BROOKLYN, NY 11211

Site 20 of 20 in cluster B

MANIFEST **S109782957**
N/A

Relative:
Higher

Actual:
13 ft.

CT MANIFEST:

Waste:

Manifest No:	ctf0576241
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	1
Container Type:	TT
Quantity:	3000
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	5/6/2005
DEO Who Last Modified Record:	CYF

Waste CD:

Manifest No:	ctf0576241
Waste Occurence:	1
EPA Waste Code:	D018
Recycled Waste?:	F
Date Record Was Last Modified:	5/6/2005
DEO Who Last Modified Record:	CYF

Manifest No:	ctf0576241
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	5/6/2005
DEO Who Last Modified Record:	CYF

Detail:

Year:	2004
Manifest ID:	ctf0576241
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	14 WEST MAIN STREET
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	(203)238-6745
Transport Date:	12/14/2004
Transporter EPA ID:	NYD064743263
Transporter Name:	MILRO ASSOCIATES, INC.
Transporter Country:	USA
Transporter Phone:	(516)379-1500
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported

DITMAS OIL ASSOCIATES INC (Continued) **S109782957**

EPA ID: NYD059358234
Generator Phone: 7187824200
Generator Mailing Addr: 364 MASPETH AVE
Generator Mailing Town: BROOKLYN
Generator Mailing State: NY
Generator Mailing Zip: 11211
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 12/14/2004
Date Received: 12/14/2004
Last modified date: 5/6/2005
Last modified by: CYF
Comments: Not reported

Waste:
Manifest No: CTF0964090
Waste Occurence: 1
UNNA: 3082
Hazard Class: 9
US Dot Description: env. Hazardous substance liquid nos
No of Containers: 001
Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0964090
Waste Occurence: 1
EPA Waste Code: D018
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2001
Manifest ID: CTF0964090
TSDF EPA ID: CTD021816889
TSDF Name: UNITED OIL RECOVERY INC
TSDF Address: 136 GRACEY AVE
TSDF City,St,Zip: MERIDEN, CT 06450
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/20/2001
Transporter EPA ID: NJD003812047
Transporter Name: ALLSTATE POWER VAC INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: NJD003812047
Trans 2 Name: ALLSTATE POWER VAC INC

DITMAS OIL ASSOCIATES INC (Continued) **S109782957**

Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	NYD059358234
Generator Phone:	7187824200
Generator Mailing Addr:	364 MASPETH AVE
Generator Mailing Town:	BROOKLYN
Generator Mailing State:	NY
Generator Mailing Zip:	11211
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	7/20/2001
Date Received:	7/27/2001
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

F334 **COOPER TANK & WELDING CORP.** **AST** **A100300797**
WSW **222 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.038 mi.
199 ft. **Site 1 of 8 in cluster F**

Relative:
Higher

Actual:
15 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-604500
Program Type:	PBS
UTM X:	590032.23488999996
UTM Y:	4507891.3231699998
Expiration Date:	N/A

Affiliation Records:

Site Id:	26372
Affiliation Type:	Emergency Contact
Company Name:	COOPER TANK & WELDING CORP.
Contact Type:	Not reported
Contact Name:	RAY KVEDARAS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 384-7727
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/23/2006

Site Id:	26372
Affiliation Type:	Mail Contact
Company Name:	COOPER TANK & WELDING CORP.

COOPER TANK & WELDING CORP. (Continued) **A100300797**

Contact Type:	Not reported
Contact Name:	RAY KVEDARAS
Address1:	222 MASPETH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 384-7727
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/23/2006

Site Id:	26372
Affiliation Type:	Owner
Company Name:	COOPER TANK & WELDING CORP.
Contact Type:	GENERAL MANAGER
Contact Name:	RAY KVEDARAS
Address1:	215 MOORE ST.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11206
Country Code:	001
Phone:	(718) 497-4431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/23/2006

Site Id:	26372
Affiliation Type:	On-Site Operator
Company Name:	COOPER TANK & WELDING CORP.
Contact Type:	Not reported
Contact Name:	RAY KVEDARAS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 384-7727
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/23/2006

Equipment Records:

I00 - Overfill - None
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping

COOPER TANK & WELDING CORP. (Continued) **A100300797**

H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Info:

Tank Number:	001
Tank Id:	58015
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	201
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	4/15/2005
Register:	True
Modified By:	NRLOMBAR
Last Modified:	3/23/2006

F335 **COOPER TANK (222 MASPETH)** **SWF/LF** **S105841903**
WSW **222 MASPETH AVENUE** **FINANCIAL ASSURANCE** **N/A**
< 1/8 **BROOKLYN, NY**
0.038 mi.
199 ft. **Site 2 of 8 in cluster F**

Relative:
Higher

Actual:
15 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7183847727
Owner Name:	Cooper Tank
Owner Type:	Private
Owner Address:	222 MASPETH AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Email:	Not reported
Owner Phone:	7183847727
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - regulated
Activity Number:	24W21
Active:	Yes
East Coordinate:	590021
North Coordinate:	4507910
Accuracy Code:	Not reported
Regulatory Status:	Consent Order
Waste Type:	Construction & Demolition Debris
Authorization #:	None
Authorization Date:	Not reported

COOPER TANK (222 MASPETH) (Continued) **S105841903**

Expiration Date: Not reported

NY FINANCIAL ASSURANCE:
Owner Name: Cooper Tank
Region: 2
Estimate Type: Closure Estimate
Estimate Amount: 355000
Estimate Date: 3/1/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 355000
Financial Institution: Greenwich Insurance
Issue Date: 3/1/2001
Expiration Date: Not reported
Activity Number: 24W21
Activity Description: C&D processing - regulated

E336 **GREEN HILLS (USA), LLC** **UST** **U004047003**
WSW **2 REWE STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.042 mi.
224 ft. **Site 10 of 12 in cluster E**

Relative:
Higher

Actual:
13 ft.

UST:
Facility Id: 2-608764
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590046.85410999996
UTM Y: 4507729.7009399999

Affiliation Records:
Site Id: 30615
Affiliation Type: Emergency Contact
Company Name: GREEN HILLS (USA), LLC
Contact Type: Not reported
Contact Name: MR. ALBERT CHAN
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 963-2800
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30615
Affiliation Type: Mail Contact
Company Name: DAN RAVIV ASSOCIATES, INC.
Contact Type: Not reported
Contact Name: ANDREW DROTLEFF
Address1: 57 EAST WILLOW STREET
Address2: Not reported

GREEN HILLS (USA), LLC (Continued) **U004047003**

City:	MILLBURN
State:	NJ
Zip Code:	07041
Country Code:	001
Phone:	(973) 564-6006
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30615
Affiliation Type:	Owner
Company Name:	GREEN HILLS (USA), LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2 REWE STREET/300 VANDERVOORT AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 963-2800
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30615
Affiliation Type:	On-Site Operator
Company Name:	GREEN HILLS (USA), LLC
Contact Type:	Not reported
Contact Name:	GREEN HILLS (USA), LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 963-2800
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
J00 - Dispenser - None
J00 - Dispenser - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground

GREEN HILLS (USA), LLC (Continued) **U004047003**

F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	30615
Tank Number:	001
Tank ID:	65612
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	4/1/2003
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	30615
Tank Number:	002
Tank ID:	65613
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	4/1/2003
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

E337 **1 REWE STREET** **UST** **U003241903**
WSW **1 REWE STREET** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.042 mi.
224 ft. **Site 11 of 12 in cluster E**

Relative:
Higher

Actual:
13 ft.

UST:

Facility Id:	2-603289
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590096.89936000004
UTM Y:	4507693.9430499999

Affiliation Records:

Site Id:	25215
Affiliation Type:	Mail Contact
Company Name:	ROCKOWER-SIGADEL ASSOCIATES
Contact Type:	Not reported
Contact Name:	PHILIP DICKER
Address1:	516 FIFTH AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(212) 768-7040
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25215
Affiliation Type:	Emergency Contact
Company Name:	ROCKOWER - SIGADEL ASSOCIATES
Contact Type:	Not reported
Contact Name:	PHILIP DICKER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 768-7040
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25215
Affiliation Type:	On-Site Operator
Company Name:	1 REWE STREET
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported

1 REWE STREET (Continued) **U003241903**

City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: Not reported
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 25215
Affiliation Type: Owner
Company Name: ROCKOWER - SIGADEL ASSOCIATES
Contact Type: Not reported
Contact Name: Not reported
Address1: 516 FIFTH AVENUE
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 768-7040
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None

Tank Info:
Site ID: 25215

Tank Number: 1
Tank ID: 53713
Tank Status: Closed - Removed
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 7500
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT

1 REWE STREET (Continued) **U003241903**

Last Modified: 3/4/2004

HIST UST:

PBS Number:	2-603289
SPDES Number:	Not reported
Emergency Contact:	PHILIP DICKER
Emergency Telephone:	(212) 768-7040
Operator:	N/A
Operator Telephone:	(000) 000-0000
Owner Name:	ROCKOWER - SIGADEL ASSOCIATES
Owner Address:	516 FIFTH AVENUE
Owner City,St,Zip:	NEW YORK, NY 10036
Owner Telephone:	(212) 768-7040
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ROCKOWER-SIGADEL ASSOCIATES
Mailing Address:	516 FIFTH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10036
Mailing Contact:	PHILIP DICKER
Mailing Telephone:	(212) 768-7040
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	01/06/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	7500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None

1 REWE STREET (Continued) **U003241903**

Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

E338 **ROCKOWER - SIGADEL ASSOCIATES** **RCRA-NonGen** **1000290813**
WSW **1 REWE ST** **FINDS** **NYD050499888**
< 1/8 **BROOKLYN, NY 11211** **MANIFEST**
0.042 mi.
224 ft. **Site 12 of 12 in cluster E**

Relative:
Higher

Actual:
13 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	ROCKOWER - SIGADEL ASSOCIATES
Facility address:	1 REWE ST BROOKLYN, NY 112111707
EPA ID:	NYD050499888
Mailing address:	MURDOCK RD EAST ROCKAWAY, NY 11518
Contact:	Not reported
Contact address:	MURDOCK RD EAST ROCKAWAY, NY 11518
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ROCKOWER - SIGADEL ASSOCIATES
Owner/operator address:	1A MURDOCK RD EAST ROCKAWAY, NY 11518
Owner/operator country:	US
Owner/operator telephone:	(212) 768-7040
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ROCKOWER - SIGADEL ASSOCIATES
Owner/operator address:	1A MURDOCK RD EAST ROCKAWAY, NY 11518

ROCKOWER - SIGADEL ASSOCIATES (Continued) **1000290813**

Owner/operator country: US
Owner/operator telephone: (212) 768-7040
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ROCKOWER - SIGADEL ASSOCIATES
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ROCKOWER - SIGADEL ASSOCIATES
Classification: Not a generator, verified

Date form received by agency: 01/06/1997
Facility name: ROCKOWER - SIGADEL ASSOCIATES
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/15/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110004358089

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

ROCKOWER - SIGADEL ASSOCIATES (Continued) **1000290813**

corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD050499888
Country:	USA
Mailing Name:	GAYLORD SPECIALITIES CORP
Mailing Contact:	GAYLORD SPECIALITIES CORP
Mailing Address:	1 REWE STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-387-5402

Document ID:	NYA3825731
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PLATE#
Trans2 State ID:	Not reported
Generator Ship Date:	861105
Trans1 Recv Date:	861105
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861105
Part A Recv Date:	861205
Part B Recv Date:	861120
Generator EPA ID:	NYD050499888
Trans1 EPA ID:	NYD000824334
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824334
Waste Code:	F003 - UNKNOWN
Quantity:	00605
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	011
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	86

Document ID:	NYB7606476
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	2A029
Trans2 State ID:	Not reported
Generator Ship Date:	970107
Trans1 Recv Date:	970107
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970131
Part A Recv Date:	Not reported
Part B Recv Date:	970221
Generator EPA ID:	NYD050499888
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES

ROCKOWER - SIGADEL ASSOCIATES (Continued) **1000290813**

Quantity:	00160
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYA7004277
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	6115BHOK
Trans2 State ID:	Not reported
Generator Ship Date:	931122
Trans1 Recv Date:	931130
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	931214
Part A Recv Date:	Not reported
Part B Recv Date:	940125
Generator EPA ID:	NYD050499888
Trans1 EPA ID:	OKD981605363
Trans2 EPA ID:	Not reported
TSDF ID:	GAD093380814
Waste Code:	F003 - UNKNOWN
Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYB5076801
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	T693VWNJ
Trans2 State ID:	Not reported
Generator Ship Date:	940627
Trans1 Recv Date:	940627
Trans2 Recv Date:	940701
TSD Site Recv Date:	940712
Part A Recv Date:	Not reported
Part B Recv Date:	940731
Generator EPA ID:	NYD050499888
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	GAD093380814
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00495
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00360
Units:	P - Pounds

ROCKOWER - SIGADEL ASSOCIATES (Continued) **1000290813**

Number of Containers: 009
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

G339 **NY Spills** **S104649048**
WSW **301 VANDERVOORT PL** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.048 mi.
254 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
14 ft.

NY Spills:

Site ID:	207093
Facility Addr2:	Not reported
Facility ID:	9902045
Spill Number:	9902045
Facility Type:	ER
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Spill Date:	5/21/1999
Reported to Dept:	5/22/1999
CID:	270
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	3/3/2003
Remediation Phase:	0
Date Entered In Computer:	5/22/1999
Spill Record Last Update:	3/3/2003
Spiller Name:	UNK
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	UNK, ZZ
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	171878
DEC Memo:	Not reported
Remarks:	UNKNOWN PERSON SPILLED OIL AND LEFT CLEAN UP IN PROGRESS

Material:

Site ID:	207093
Operable Unit ID:	1076811
Operable Unit:	01
Material ID:	305564
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM

(Continued) **S104649048**

Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: 5
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9902045
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 05/21/1999 12:00
Reported to Dept Date/Time: 05/22/99 12:11
SWIS: 61
Spiller Name: UNKNOWN
Spiller Contact: UNK
Spiller Phone: ( ) -
Spiller Contact: CALLER
Spiller Phone: ( ) -
Spiller Address: \\
Spiller City,St,Zip: UNK
Spill Cause: Deliberate
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

(Continued) **S104649048**

Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/22/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 05/25/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: UNKNOWN PERSON SPILLED OIL AND LEFT CLEAN UP IN PROGRESS

G340 **307 VANDERVOORT AVE** **UST** **U000401627**
WSW **307 VANDERVOORT AVENUE** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.049 mi.
260 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
14 ft.

UST:
Facility Id: 2-297933
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590078.20466000005
UTM Y: 4507720.3808800001

Affiliation Records:
Site Id: 13781
Affiliation Type: Mail Contact
Company Name: KG2 REALTY, LLC
Contact Type: Not reported
Contact Name: Not reported
Address1: 976 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211

307 VANDERVOORT AVE (Continued) **U000401627**

Country Code:	001
Phone:	(718) 599-0100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13781
Affiliation Type:	Emergency Contact
Company Name:	KG2 REALTY, LLC
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13781
Affiliation Type:	Owner
Company Name:	KG2 REALTY, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	340 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 599-0100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13781
Affiliation Type:	On-Site Operator
Company Name:	307 VANDERVOORT AVE
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported

307 VANDERVOORT AVE (Continued) **U000401627**

Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
B00 - Tank External Protection - None

Tank Info:
Site ID: 13781

Tank Number: 001
Tank ID: 16194
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 20000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 4/9/2002
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-297933
SPDES Number: Not reported
Emergency Contact: EKEH LEWIS
Emergency Telephone: (718) 387-9001
Operator: PERFECT COLOR DYEWORKS
Operator Telephone: (718) 387-9000
Owner Name: PERFECT COLOR DYEWORKS,INC.
Owner Address: 307 VANDERVOORT AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Telephone: (718) 387-9000
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: PERFECT COLOR DYEWORKS,INC.
Mailing Address: 307 VANDERVOORT AVENUE
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11211
Mailing Contact: Not reported
Mailing Telephone: (718) 387-9000
Owner Mark: First Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist

307 VANDERVOORT AVE (Continued) **U000401627**

	or not at the facility.
Facility Addr2:	307 VANDERVOORT AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	MANUFACTURING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/30/1997
Expiration Date:	07/14/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	10000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	10000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

F341
WSW
< 1/8
0.051 mi.
270 ft.

Relative:
Higher

Actual:
16 ft.

NY Spills **S104648120**
NY Hist Spills **N/A**

MASPETH AV/VANDERVOORT AV
BROOKLYN, NY

Site 3 of 8 in cluster F

NY Spills:

Site ID:	66850
Facility Addr2:	Not reported
Facility ID:	9809893
Spill Number:	9809893
Facility Type:	ER
SWIS:	2401
Investigator:	CAENGELH
Referred To:	Not reported
Spill Date:	11/5/1998
Reported to Dept:	11/5/1998
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	2/12/2003
Remediation Phase:	0
Date Entered In Computer:	11/5/1998
Spill Record Last Update:	2/12/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	63955
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT" 2/12/2003 - Closed Due To The Nature / Extent Of The Spill Report
Remarks:	HAZMAT TEAM CALLED TO SPILL. UNK MATERIAL ON WATER IN THE STREET. UNK WHAT IS GOING TO HAPPEN. POSSIBLY INTO A CREEK.

Material:

Site ID:	66850
Operable Unit ID:	1067160
Operable Unit:	01
Material ID:	313785
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	60
Units:	Gallons
Recovered:	No

(Continued) **S104648120**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9809893
Investigator: ENGELHARDT
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/05/1998 16:24
Reported to Dept Date/Time: 11/05/98 16:50
SWIS: 61
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unknown Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/05/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/06/98

(Continued) **S104648120**

Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Raw Sewage
Quantity Spilled: 60
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL
Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: Not reported
Remark: HAZMAT TEAM CALLED TO SPILL. UNK MATERIAL ON WATER IN THE STREET. UNK WHAT IS GOING TO HAPPEN. POSSIBLY INTO A CREEK.

F342 **5 OZ OIL IN SOIL AT POLE 15537** **NY Spills** **S108636776**
WSW **MASPETH AVENUE & VANDERVOORT** **N/A**
< 1/8 **BROOKLYN, NY**
0.051 mi.
270 ft. **Site 4 of 8 in cluster F**

Relative:
Higher

Actual:
16 ft.

NY Spills:
Site ID: 380842
Facility Addr2: Not reported
Facility ID: 0701343
Spill Number: 0701343
Facility Type: ER
SWIS: 2401
Investigator: gdbreen
Referred To: Not reported
Spill Date: 5/2/2007
Reported to Dept: 5/2/2007
CID: 444
Spill Cause: Other
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 6/28/2007
Remediation Phase: 0
Date Entered In Computer: 5/2/2007
Spill Record Last Update: 6/28/2007

5 OZ OIL IN SOIL AT POLE 15537 (Continued) **S108636776**

Spiller Name:	ERTSDESK
Spiller Company:	CON EDISON
Spiller Address:	MASBETH/VANDERVORT
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERTSDESK
Contact Phone:	(212) 580-8383
DEC Region:	2
DER Facility ID:	330287
DEC Memo:	06/28/07 - See eDocs for Con Ed report detailing cleanup and closure. 205638. Related to 0701344. see eDocs
Remarks:	WHILE DIGGING TO REPLACE A POLE OIL IS COMING OUT OF SOIL: 205638

Material:

Site ID:	380842
Operable Unit ID:	1138315
Operable Unit:	01
Material ID:	2128300
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

F343 **ONE PINT OIL IN SOIL AT POLE 15540** **NY Spills** **S108636777**
WSW **MASPETH AVE & VANDERVOORT** **N/A**
< 1/8 **BROOKLYN, NY**
0.051 mi.
270 ft. **Site 5 of 8 in cluster F**

Relative:
Higher

Actual:
16 ft.

NY Spills:

Site ID:	380843
Facility Addr2:	Not reported
Facility ID:	0701344
Spill Number:	0701344
Facility Type:	ER
SWIS:	2401
Investigator:	gdbreen
Referred To:	Not reported
Spill Date:	5/2/2007
Reported to Dept:	5/2/2007

ONE PINT OIL IN SOIL AT POLE 15540 (Continued) **S108636777**

CID:	444
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	6/28/2007
Remediation Phase:	0
Date Entered In Computer:	5/2/2007
Spill Record Last Update:	6/28/2007
Spiller Name:	ERTSDESK
Spiller Company:	CON EDISON
Spiller Address:	MASBETH/VANDERVORT
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERTSDESK
Contact Phone:	(212) 580-8383
DEC Region:	2
DER Facility ID:	207057
DEC Memo:	06/28/07 - See eDocs for Con Ed report detailing cleanup and closure. 205635. Related to 0701343. see eDocs.
Remarks:	FOUND IN TRENCH 100 FEET FROM THE LAST ONE AND IS ON 10 GALLONS OF WATER. 205635

Material:

Site ID:	380843
Operable Unit ID:	1138316
Operable Unit:	01
Material ID:	2128301
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

F344 **MASPETH AVE & VANDERVOORT** **NY Spills** **S102147715**
WSW **MASPETH AVE & VANDERVOORT** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.051 mi.
270 ft. **Site 6 of 8 in cluster F**

Relative:
Higher

Actual:
16 ft.

NY Spills:

Site ID:	252775
Facility Addr2:	Not reported
Facility ID:	9313045
Spill Number:	9313045
Facility Type:	ER
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Spill Date:	2/3/1994
Reported to Dept:	2/3/1994
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	2/3/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/3/1994
Remediation Phase:	0
Date Entered In Computer:	2/7/1994
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	207057
DEC Memo:	Not reported
Remarks:	REC'D ANNON. CALL DISPATCHED UNIT TO LOCATION DEP NOTIFIED. FD IS ON SCENE DOING CLEAN UP - CALL BACK REQUESTED - FIREMAN SMITH SAYS FALSE ALARM - TIRE FIRE.

Material:

Site ID:	252775
Operable Unit ID:	994922
Operable Unit:	01
Material ID:	388439
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported

MASPETH AVE & VANDERVOORT (Continued) **S102147715**

Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9313045
Investigator: HEALY
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 02/03/1994 18:43
Reported to Dept Date/Time: 02/03/94 18:56
SWIS: 61
Spiller Name: UNK
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: 02/03/94
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 02/03/94
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/07/94
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

MASPETH AVE & VANDERVOORT (Continued) **S102147715**

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: REC D ANNON. CALL DISPATCHED UNIT TO LOCATION DEP NOTIFIED. FD IS ON SCENE DOING CLEAN UP - CALL BACK REQUESTED - FIREMAN SMITH SAYS FALSE ALARM - TIRE FIRE.

F345 **TWENTY GAL OIL IN EXCAVATION** **NY Spills** **S108764012**
WSW **MASPETH AVE & VANDERVOORT AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.051 mi.
270 ft. **Site 7 of 8 in cluster F**

Relative:
Higher

Actual:
16 ft.

NY Spills:
Site ID: 386385
Facility Addr2: Not reported
Facility ID: 0705958
Spill Number: 0705958
Facility Type: ER
SWIS: 2401
Investigator: RWAUSTIN
Referred To: Not reported
Spill Date: 8/25/2007
Reported to Dept: 8/25/2007
CID: 74
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/17/2008
Remediation Phase: 0
Date Entered In Computer: 8/25/2007
Spill Record Last Update: 11/17/2008

TWENTY GAL OIL IN EXCAVATION (Continued) **S108764012**

Spiller Name:	Not reported
Spiller Company:	NOT CON EDISON
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	999
Contact Name:	MIKE DAUGHTERY
Contact Phone:	(212) 580-8383
DEC Region:	2
DER Facility ID:	335770
DEC Memo:	207726. see eDocs 11/17/08 - Austin - oil from unk. third party - cleaned up by Con Ed - closed - end
Remarks:	1.5 gallons estimated - sheen of oil on 20 gallons of water - bubbling up from the bottom of the excavation hole. 207726.

Material:

Site ID:	386385
Operable Unit ID:	1143625
Operable Unit:	01
Material ID:	2133899
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

H346 **NATIONAL GRID** **RCRA-SQG** **1012187064**
West **370 VANDERVOORT AVE** **NYR000169284**
< 1/8 **BROOKLYN, NY 11211**
0.057 mi.
302 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
20 ft.

RCRA-SQG:

Date form received by agency:	10/14/2009
Facility name:	NATIONAL GRID
Facility address:	370 VANDERVOORT AVE BROOKLYN, NY 11211
EPA ID:	NYR000169284
Mailing address:	VANDERVOORT AVE BROOKLYN, NY 11211
Contact:	JOSEPH MCDOUGLE
Contact address:	VANDERVOORT AVE

NATIONAL GRID (Continued) **1012187064**

BROOKLYN, NY 11211
Contact country: US
Contact telephone: (718) 963-5434
Contact email: Not reported
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BRITISH PETROLEUM
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: 10/25/2007
Owner/Op end date: Not reported

Owner/operator name: JOSEPH MCDOUGLE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: 02/02/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

NATIONAL GRID (Continued) **1012187064**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

I347 **NEWTOWN CREEK** **NPL** **1011845384**
SSE **SOUTH END OF IVY HILL ROAD** **Proposed NPL** **NYN000206282**
< 1/8 **BROOKLYN, QUEENS, NY 11222** **CERCLIS**
0.064 mi.
339 ft. **Site 1 of 7 in cluster I**

Relative:
Lower

Actual:
0 ft.

NPL:
EPA ID: NYN000206282
EPA Region: 02
Federal: N
Final Date: 2010-09-29 00:00:00

CERCLIS:
Site ID: 0206282
EPA ID: NYN000206282
Facility County: KINGS, QUEENS
Short Name: NEWTOWN CREEK
Congressional District: Not reported
IFMS ID: A206
SMSA Number: 5600
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: Not reported
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 02
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Currently on the Final NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: Not reported
Site Fips Code: Not reported
CC Concurrence Date: Not reported

NEWTOWN CREEK (Continued) **1011845384**

CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 2000116.00000
Contact Name: CAROLINE KWAN
Contact Tel: (212) 637-4275
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 13003472.00000
Contact Name: NICA KLABER
Contact Tel: (212) 637-4309
Contact Title: Remedial Project Manager (RPM)
Contact Email: KLABER.NICA@EPA.GOV

CERCLIS Site Alias Name(s):
Alias ID: 13000087
Alias Name: NEWTOWN CREEK
Alias Address: SOUTH END OF IVY HILL ROAD
BROOKLYN, NY 11211
Alias Comments: Not reported
Site Description: Contaminated sediment plume resulting from numerous industrial activities along newtown Creek

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/15/2008
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 09/23/2009
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

NEWTOWN CREEK (Continued) **1011845384**

Date Started:	02/05/2010
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	ENTIRE SITE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Original Action Take Over

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	03/25/2010
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	Not reported
Date Completed:	09/29/2010
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Fed Register Date:	09/29/2010
Fed Register Volume:	75
Page Number:	59983

Fed Register Date:	09/23/2009
Fed Register Volume:	74
Page Number:	48511

Click this hyperlink while viewing on your computer to access
15 additional US CERCLIS Financial: record(s) in the EDR Site Report.

J348 **L & H ASSOCIATES C/O TROON MGMT.** **UST** **U001833096**
South **1101-1107 METROPOLITAN AVENUE** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11206**
0.076 mi.
403 ft. **Site 1 of 10 in cluster J**

Relative:
Higher

Actual:
10 ft.

UST:

Facility Id:	2-109932
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590153.77439000004
UTM Y:	4507572.7340799998

Affiliation Records:

Site Id:	3334
Affiliation Type:	Emergency Contact
Company Name:	L & H ASSOCIATES C/O TROON MGMT
Contact Type:	Not reported
Contact Name:	LLOYD NELSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 824-8701
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/7/2005

Site Id:	3334
Affiliation Type:	Owner
Company Name:	L & H ASSOCIATES C/O TROON MGMT
Contact Type:	OFFICE MGR
Contact Name:	THERESA THORNTON
Address1:	885 THIRD AVE, ROOM #1780
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10022
Country Code:	001
Phone:	(212) 230-8229
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	4/24/2008

Site Id:	3334
Affiliation Type:	Mail Contact
Company Name:	TROON MGMT
Contact Type:	Not reported
Contact Name:	THERESA THORNTON
Address1:	885 THIRD AVE, ROOM #1780
Address2:	Not reported

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

City:	NEW YORK
State:	NY
Zip Code:	10022
Country Code:	001
Phone:	(212) 230-8339
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	4/24/2008

Site Id:	3334
Affiliation Type:	On-Site Operator
Company Name:	L & H ASSOCIATES C/O TROON MGMT.
Contact Type:	Not reported
Contact Name:	KINGSLAND & PAUL CHIEN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-8676
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	4/24/2008

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
J00 - Dispenser - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
K00 - Spill Prevention - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None

Tank Info:

Site ID:	3334
Tank Number:	001

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

Tank ID:	7869
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	7500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	4/26/2003
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	CGFREEDM
Last Modified:	4/24/2008
Site ID:	3334
Tank Number:	002
Tank ID:	222583
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	7500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	4/2/2008
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	CGFREEDM
Last Modified:	4/24/2008

HIST UST:

PBS Number:	2-109932
SPDES Number:	Not reported
Emergency Contact:	MR. NOEL LEVINE
Emergency Telephone:	(212) 230-2424
Operator:	D. F. KING
Operator Telephone:	(718) 782-8676
Owner Name:	L & H ASSOCIATES
Owner Address:	C/O TROON MGMT-885 THIRD AVE
Owner City,St,Zip:	NEW YORK, NY 10022
Owner Telephone:	(212) 230-2424
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	L & H ASSOCIATES
Mailing Address:	C/O TROON MGMT,INC
Mailing Address 2:	885 THIRD AVE
Mailing City,St,Zip:	NEW YORK, NY 10022
Mailing Contact:	Not reported
Mailing Telephone:	(212) 230-2424
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist

L & H ASSOCIATES C/O TROON MGMT. (Continued) **U001833096**

	or not at the facility.
Facility Addr2:	1105 METROPOLITAN AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	MANUFACTURING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/03/1997
Expiration Date:	07/10/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	7500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	7500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	12/27/1987
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

F349 **MS POWER INC** **SWF/LF** **S108146009**
WSW **187 MASPETH VE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.077 mi.
405 ft. **Site 8 of 8 in cluster F**

Relative:
Higher

Actual:
16 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	589950
North Coordinate:	4507862
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

J350 **STERLING OPTICAL** **LTANKS** **S100346426**
South **1105 METROPOLITAN AV** **HIST LTANKS** **N/A**
< 1/8 **NYC, NY**
0.078 mi.
410 ft. **Site 2 of 10 in cluster J**

Relative:
Higher

Actual:
11 ft.

LTANKS:

Site ID:	183945
Spill No:	8802460
Spill Date:	6/17/1988
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/5/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	6/17/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester

STERLING OPTICAL (Continued) **S100346426**

Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 6/24/1988
Spill Record Last Update: 3/18/2003
Spiller Name: CONTACT JOE
Spiller Company: STERLING OPTICAL
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 153958
Remarks: L R =-20 GPH. NEVER STABILIZED 7.5K TANK.CLOSED DUE TO LACK OF ANY RECENT INFO- DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

Material:
Site ID: 183945
Operable Unit ID: 919680
Operable Unit: 01
Material ID: 458025
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 183945
Spill Tank Test: 1534139
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 8802460
Spill Date: 06/17/1988
Spill Time: 12:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial

STERLING OPTICAL (Continued) **S100346426**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	BATTISTA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	06/17/88
Reported to Department Time:	14:17
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	CONTACT JOE
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(718) 388-5549
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	2-109932
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	06/24/88
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	05/09/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	0
Test Method:	Not reported
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL

STERLING OPTICAL (Continued) **S100346426**

Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: / / : REPLACE VENT LINE, EMPTY TANK RETEST.
Spill Cause: L R =-20 GPH. NEVER STABILIZED 7.5K TANK.

J351 **1101 METROPOLITIAN AVE** **LTANKS** **S103238306**
SSW **1101 METROPOLITIAN AVE** **HIST LTANKS** **N/A**
< 1/8 **BROOKLYN, NY**
0.078 mi.
413 ft. **Site 3 of 10 in cluster J**

Relative:
Higher

Actual:
11 ft.

LTANKS:

Site ID:	190461
Spill No:	9800642
Spill Date:	4/15/1998
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Dt:	5/17/2006
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	4/15/1998
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/15/1998
Spill Record Last Update:	5/17/2006
Spiller Name:	USA TANKS
Spiller Company:	1101 METROPOLITIAN AVE
Spiller Address:	1101 METROPOLITIAN AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	USA TANKS
Spiller Phone:	(718) 384-9151
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	158882
Remarks:	TESTED TANK.TANK FAILED.

Material:

Site ID:	190461
Operable Unit ID:	1061125
Operable Unit:	01
Material ID:	322598
Material Code:	0001
Material Name:	#2 Fuel Oil

1101 METROPOLITIAN AVE (Continued) **S103238306**

Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 190461
Spill Tank Test: 1545783
Tank Number: 1
Tank Size: 3000
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

HIST LTANKS:
Region of Spill: 2
Spill Number: 9800642
Spill Date: 04/15/1998
Spill Time: 12:00
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 04/15/98
Reported to Department Time: 13:08
SWIS: 61
Spiller Contact: USA TANKS
Spiller Phone: (718) 384-9151
Spiller Extention: Not reported
Spiller Name: 1101 METROPOLITIAN AVE
Spiller Address: 1101 METROPOLITIAN AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller Cleanup Date: / /
Facility Contact: USA TANKS
Facility Phone: (718) 384-9151

1101 METROPOLITIAN AVE (Continued) **S103238306**

Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 04/15/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 04/16/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 3000
Test Method: Horner EZ Check
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: TESTED TANK.TANK FAILED.

H352 **NYSDOT - CONTRACT D252291** **RCRA-NonGen** **1000553727**
WNW **386 VANDEROORT AVE** **FINDS** **NYD986961571**
< 1/8 **BROOKLYN, NY 11211**
0.087 mi.
457 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
21 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NYSDOT - CONTRACT D252291
Facility address: 386 VANDEROORT AVE
BROOKLYN, NY 11211
EPA ID: NYD986961571
Mailing address: VANDEROORT AVE
BROOKLYN, NY 11211
Contact: MARVIN LIPSHONSKY
Contact address: VANDEROORT AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: (718) 486-6620
Contact email: Not reported

NYSDOT - CONTRACT D252291 (Continued) **1000553727**

EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT
Owner/operator address: 51 CHAMBERS ST
NEW YORK, NY 10077
Owner/operator country: US
Owner/operator telephone: (212) 566-6620
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT
Owner/operator address: 51 CHAMBERS ST
NEW YORK, NY 10077
Owner/operator country: US
Owner/operator telephone: (212) 566-6620
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT - CONTRACT D252291
Classification: Not a generator, verified

Date form received by agency: 02/27/1992
Facility name: NYSDOT - CONTRACT D252291
Site name: NYSDOT
Classification: Large Quantity Generator

Date form received by agency: 07/01/1991
Facility name: NYSDOT - CONTRACT D252291
Classification: Not a generator, verified

NYSDOT - CONTRACT D252291 (Continued) **1000553727**

Violation Status: No violations found

FINDS:

Registry ID: 110004471875

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

K353 **FRANS' AUTO REPAIR, INC** **AST** **A100194274**
WSW **187 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.096 mi.
505 ft. **Site 1 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-607264
Program Type:	PBS
UTM X:	589913.58631000004
UTM Y:	4507887.5168300001
Expiration Date:	2006/12/21

Affiliation Records:

Site Id:	29117
Affiliation Type:	Mail Contact
Company Name:	Not reported
Contact Type:	Not reported
Contact Name:	FRANS ALEXANIAN
Address1:	25-22 STEINWAY STREET
Address2:	1C
City:	ASTORIA
State:	NY
Zip Code:	11103
Country Code:	001
Phone:	(718) 956-9550
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29117
Affiliation Type:	Owner
Company Name:	AVENTINO DACOSTA AND CARLOS DACOSTA
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	187 MASPETH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY

FRANS' AUTO REPAIR, INC (Continued) **A100194274**

Zip Code:	11211
Country Code:	001
Phone:	(718) 384-0036
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29117
Affiliation Type:	On-Site Operator
Company Name:	FRANS AUTO REPAIR, INC
Contact Type:	Not reported
Contact Name:	FRANS ALEXANAIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 302-6973
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	29117
Affiliation Type:	Emergency Contact
Company Name:	AVENTINO DACOSTA AND CARLOS DACOSTA
Contact Type:	Not reported
Contact Name:	FRANS ALEXANIAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 494-9823
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
D10 - Pipe Type - Copper
I05 - Overfill - Vent Whistle
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground

Tank Info:

FRANS' AUTO REPAIR, INC (Continued) **A100194274**

Tank Number:	001
Tank Id:	62636
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

K354 **DANNA TRANSPORT INC.** **AST** **A100183464**
WSW **185 MASPETH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.100 mi.
528 ft. **Site 2 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-606893
Program Type:	PBS
UTM X:	589944.16344999999
UTM Y:	4507860.1310599996
Expiration Date:	2006/08/30

Affiliation Records:

Site Id:	28748
Affiliation Type:	Emergency Contact
Company Name:	SHEMELZMAN URI
Contact Type:	Not reported
Contact Name:	URI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 468-4346
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28748
Affiliation Type:	Mail Contact
Company Name:	DANNA TRANSPORT INC.
Contact Type:	Not reported
Contact Name:	URI
Address1:	185 MASPETH AVENUE

DANNA TRANSPORT INC. (Continued) **A100183464**

Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 486-7664
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28748
Affiliation Type:	On-Site Operator
Company Name:	DANNA TRANSPORT INC.
Contact Type:	Not reported
Contact Name:	URI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 486-7664
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28748
Affiliation Type:	Owner
Company Name:	SHEMELZMAN URI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2064 EAST 68TH ST.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11234
Country Code:	001
Phone:	(718) 209-0028
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
J00 - Dispenser - None
I00 - Overfill - None

DANNA TRANSPORT INC. (Continued) **A100183464**

G00 - Tank Secondary Containment - None

Tank Info:

Tank Number:	01
Tank Id:	62006
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/16/2001
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

K355 **MAGNUM BODY SHOP INC** **SWF/LF** **S108145977**
WSW **185A MASPETH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.100 mi.
528 ft. **Site 3 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	589945
North Coordinate:	4507859
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

I356 **1131 GRAND ET IAC** **UST** **U003178587**
SSE **1131 GRAND STREET** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.103 mi.
545 ft. **Site 2 of 7 in cluster I**

Relative:
Lower

Actual:
8 ft.

UST:

Facility Id:	2-603035
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590394.22701999999
UTM Y:	4507588.3825599998

Affiliation Records:

Site Id:	24989
Affiliation Type:	On-Site Operator
Company Name:	1131 GRAND ET IAC
Contact Type:	Not reported
Contact Name:	RICHARD LEE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 417-0016
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24989
Affiliation Type:	Mail Contact
Company Name:	BO BO POULTRY INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	324 MELROSE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 417-0016
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24989
Affiliation Type:	Emergency Contact
Company Name:	RICHARD LEE
Contact Type:	Not reported
Contact Name:	RICHARD LEE
Address1:	Not reported
Address2:	Not reported

1131 GRAND ET IAC (Continued) **U003178587**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 417-0016
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24989
Affiliation Type:	Owner
Company Name:	RICHARD LEE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	374 MELROSE ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 417-0016
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

A00 - Tank Internal Protection - None
I05 - Overfill - Vent Whistle
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination

Tank Info:

Site ID:	24989

Tank Number:	001
Tank ID:	52736
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	7500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	6/1/1997
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True

1131 GRAND ET IAC (Continued) **U003178587**

Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-603035
SPDES Number: Not reported
Emergency Contact: RICHARD LEE
Emergency Telephone: (718) 417-0016
Operator: RICHARD LEE
Operator Telephone: (718) 417-0016
Owner Name: RICHARD LEE
Owner Address: 374 MELROSE ST
Owner City,St,Zip: BROOKLYN, NY 11237
Owner Telephone: (718) 417-0016
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Name: BO BO POULTRY INC
Mailing Address: 324 MELROSE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11237
Mailing Contact: Not reported
Mailing Telephone: (718) 417-0016
Owner Mark: First Owner
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2: Not reported
SWIS ID: 6101
Old PBS Number: Not reported
Facility Type: OTHER
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False
Certification Date: Not reported
Expiration Date: 06/03/2002
Renew Flag: False
Renewal Date: Not reported
Total Capacity: 0
FAMT: True
Facility Screen: No Missing Data
Owner Screen: Minor Data Missing
Tank Screen: 0
Dead Letter: False
CBS Number: Not reported
Town or City: NEW YORK CITY
County Code: 61
Town or City: 01
Region: 2

Tank Id: 001
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 7500
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel

1131 GRAND ET IAC (Continued) **U003178587**

Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	06/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

I357 **MANHOLE 1299** **NY Spills** **S106969136**
SSE **1131 GRAND ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.103 mi.
545 ft. **Site 3 of 7 in cluster I**

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	348262
Facility Addr2:	Not reported
Facility ID:	0503634
Spill Number:	0503634
Facility Type:	ER
SWIS:	2401
Investigator:	SKARAKHA
Referred To:	Not reported
Spill Date:	6/27/2005
Reported to Dept:	6/27/2005
CID:	77
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/31/2005
Remediation Phase:	0
Date Entered In Computer:	6/27/2005
Spill Record Last Update:	8/31/2005
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON 151710
Spiller Address:	128 WEST AVE
Spiller City,St,Zip:	MANHATTAN, NY 10023
Spiller Company:	001
Contact Name:	ERT DESK

MANHOLE 1299 (Continued) **S106969136**

Contact Phone: (212) 580-8383
DEC Region: 2
DER Facility ID: 294628
DEC Memo: e2mis no 159434 J. IOCCO REPORTS FINDING APPROX 1/2 GAL OF DIELECTRIC FLUID THAT LEAKED FROM THE BOTTOM OF THE TRANSFORMER IN TM1299 ONTO APPROX 30 GALS OF WATER. SPILL IS CONTAINED TO THE STRUCTURE. NO SEWERS OR WATERWAYS AFFECTED. NO MOVEMENT IN THE WATER. CANNOT VERIFY THE EXISTENCE OF ANY SEWER CONNECTIONS, SUMPS OR DRAINS. WHILE CLEANING THE STRUCTURE, MR. IOCCO INADVERTANTLY SUCKED UP SOME OF THE OIL INTO VACTOR # 60766. HE WILL FINISH THE CLEANUP AND THE VEHICLE WILL REMAIN ON LOC PENDING LAB RESULT. TAG # 46462 PLACED IN STRUCTURE. PCB SAMPLE TAKEN. BQE WILL SEND OUT A CREW TO PRESSURE TEST THE TRANSFORMER. HISTORICAL PCB COUNT OF TRANSFORMER IS 22 PPM DTD 4/1/94. TAG WILL REMAIN IN STRUCTURE PENDING LAB RESULT. UPDATE: 6/27/05 - 1130. FDR # FOR TM1299 IS SD3143. AS PER SHIFT MGR M. CARUSO, UNIT WAS PRESSURE TESTED BY BQE AND HELD PRESSURE. #9 O.S. M. ROTONDI FEELS OIL IN STRUCTURE IS MOTOR OIL. TJ - 50495 LAB RESULT RECEIVED 6/27/05 - 1512. 05-06177. 31 PPM. TJ - 50495 UPDATE - 6/27/05 - 2000HRS. S. ADEDAPO REPORTS DOUBLE WASHED STRUCTURE WITH 760 BIOGEN. REMOVED ALL LIQUIDS AND DEBRIS WITH VACTOR. NO LEAKING CO. EQUIPMENT FOUND. ENV. STOP TAG REMAINS IN PLACE PENDING TRANSFORMER REMOVAL. CN#19661 Update - 6/29/05 0900hrs. This is to clarify the status of this incident. As per G. Palladino to D. Hearns he is reporting that unit is not leaking but will be replaced on outage. Tag remains in place pending transformer removal. cn#19661 6/30/05 1330HRS O.S. C.LABARBARA ENVIR OPPS REPORTS NETW REMOVED AND REPLACED UNIT .#9 TIEING BACK UNIT.REMOVED ENVIR TAG# 46462. G DONATONE UPDATE 6/30/2005 14:30 HRS... PER OS C. LABARBARA ON 6/29 AFTER THE UNIT WAS REMOVED, ENVIRONMENTAL OPS EMPLOYEE GUY CASTRO WASHED THE STRUCTURE, THE STRUCTURE WAS COMPLETELY CLEAN..... E.VESCE. Closed. 8-31-05. GB
Remarks: 1/2 GAL OF DIELECTRIC FLUID DUE TO EQUIPMENT FAILURE OF TRANSFORMER. CLEAN-UP PENDING DE-ENERGIZING OF FEEDER. REF # 159434

Material:
Site ID: 348262
Operable Unit ID: 1105920
Operable Unit: 01
Material ID: 1968415
Material Code: 0541A
Material Name: DIELECTRIC FLUID
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported

MANHOLE 1299 (Continued) **S106969136**

Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

L358 **CONSOLIDATED CARPET** **LTANKS** **S102619094**
SSE **1157 GRAND ST** **HIST LTANKS** **N/A**
< 1/8 **BROOKYLN, NY**
0.106 mi.
560 ft. **Site 1 of 13 in cluster L**

Relative:
Lower

Actual:
6 ft.

LTANKS:

Site ID:	193820
Spill No:	9511303
Spill Date:	12/7/1995
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/7/2006
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	INVESTIGATION/DELINEATION
Reported to Dept:	12/7/1995
CID:	323
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	12/7/1995
Spill Record Last Update:	2/7/2006
Spiller Name:	STEVEN SACCHINELLI
Spiller Company:	CONSOLIDATED CARPET
Spiller Address:	1157 GRAND ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	STEVEN SACCHINELLI
Spiller Phone:	(718) 456-8207
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	161550
Remarks:	TEST METHOD NDE MODEL 1000, UNKNOWN LEAK RATE.

Material:

Site ID:	193820
Operable Unit ID:	1021843
Operable Unit:	01
Material ID:	358651
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum

CONSOLIDATED CARPET (Continued) **S102619094**

Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 193820
Spill Tank Test: 1544300
Tank Number: 1
Tank Size: 550
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 9511303
Spill Date: 12/07/1995
Spill Time: 11:00
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Non Major Facility > 1,100 gallons
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 12/07/95
Reported to Department Time: 14:58
SWIS: 61
Spiller Contact: STEVEN SACCHINELLI
Spiller Phone: (718) 456-8207
Spiller Extention: Not reported
Spiller Name: CONSOLIDATED CARPET
Spiller Address: 1157 GRAND ST
Spiller City,St,Zip: BROOKYLN
Spiller Cleanup Date: / /
Facility Contact: STEVEN SACCHINELLI
Facility Phone: (718) 456-8207
Facility Extention: Not reported
Spill Notifier: Tank Tester

CONSOLIDATED CARPET (Continued) **S102619094**

PBS Number: 2-233234
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/07/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 01/25/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 550
Test Method: Unknown
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: On Thursday January 25, 1996, Dave Pulvermiller of MTS Environserve called A.Sigona and informed that the 550 gallon UST which failed a tank test would be removed along with two other 550 gallon gasoline USTs. They would be taking samples and doinga site assessment during the tank removal. The tanks will be registered and will submit a substantial modification application. The tanks will be removed the week of January 29, 1996, and DEC Sigona is planning to view the excavations on Tuesday January 30, 1996 at 3:30 PM. The consultant plans to sample and test using EPA method 8020.
Spill Cause: TEST METHOD NDE MODEL 1000, UNKNOWN LEAK RATE.

L359 **CONSOLIDATED CARPET TRADE WORK** **RCRA-NonGen** **1001119547**
SSE **1181 GRAND ST** **MANIFEST** **NYR000028340**
< 1/8 **BROOKLYN, NY 11211**
0.107 mi.
566 ft. **Site 2 of 13 in cluster L**

Relative:
Lower

Actual:
6 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: CONSOLIDATED CARPET TRADE WORK
Facility address: 1181 GRAND ST
BROOKLYN, NY 112111811
EPA ID: NYR000028340
Mailing address: GRAND ST
BROOKLYN, NY 11211
Contact: Not reported

CONSOLIDATED CARPET TRADE WORK (Continued) **1001119547**

Contact address: GRAND ST
BROOKLYN, NY 11211
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DAVID MEBERG
Owner/operator address: 1181 GRAND ST
BROOKLYN, NY 11211
Owner/operator country: US
Owner/operator telephone: (718) 456-8207
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAVID MEBERG
Owner/operator address: 1181 GRAND ST
BROOKLYN, NY 11211
Owner/operator country: US
Owner/operator telephone: (718) 456-8207
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CONSOLIDATED CARPET TRADE WORK
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: CONSOLIDATED CARPET TRADE WORK
Classification: Not a generator, verified

CONSOLIDATED CARPET TRADE WORK (Continued) **1001119547**

Date form received by agency: 08/19/1996
Facility name: CONSOLIDATED CARPET TRADE WORK
Classification: Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000028340
Country: USA
Mailing Name: CONSOLIDATED CARPET TRADE WORKROOM
Mailing Contact: STEVEN SACCHINELLI
Mailing Address: 1181 GRAND STREET
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11211
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-456-8207

Document ID: NJA2618819
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 50060
Trans2 State ID: Not reported
Generator Ship Date: 960912
Trans1 Recv Date: 960912
Trans2 Recv Date: 960918
TSD Site Recv Date: 960919
Part A Recv Date: Not reported
Part B Recv Date: 961022
Generator EPA ID: NYR000028340
Trans1 EPA ID: NYD980761191
Trans2 EPA ID: NYD980761191
TSDF ID: NJD002200046
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 96

L360 **CONSOLIDATED CARPET TRADE WORKROOM INC.** **UST** **U003065847**
SSE **1181 GRAND STREET** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.107 mi.
566 ft. **Site 3 of 13 in cluster L**

Relative:
Lower

Actual:
6 ft.

UST:
Facility Id: 2-233234
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590545.69583999994

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

UTM Y: 4507640.2568699997

Affiliation Records:

Site Id: 8476
Affiliation Type: Owner
Company Name: CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type: Not reported
Contact Name: Not reported
Address1: 1181 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 456-8207
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8476
Affiliation Type: Mail Contact
Company Name: CONSOLIDATED CARPET TRADE WORKROOM
Contact Type: Not reported
Contact Name: MICHAEL TASSONE
Address1: Not reported
Address2: 1181 GRAND STREET
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 456-8207
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8476
Affiliation Type: On-Site Operator
Company Name: CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type: Not reported
Contact Name: CONSOLIDATED CARPET
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 456-8207
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 8476

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Affiliation Type:	Emergency Contact
Company Name:	CONSOLIDATED CARPET TRADE WORKROOM INC.
Contact Type:	Not reported
Contact Name:	MICHAEL TASSONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 456-8207
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	8476
Tank Number:	001
Tank ID:	24154
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	6/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	8/1/1994
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	8476
Tank Number:	002
Tank ID:	24155
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	3/1/1997
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	8/1/1994
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	8476
Tank Number:	003
Tank ID:	50719
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 8476

Tank Number: 004
Tank ID: 50720
Tank Status: Closed - Removed
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 8476

Tank Number: 005
Tank ID: 50721
Tank Status: Closed - Removed
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-233234
SPDES Number: Not reported
Emergency Contact: MICHAEL TASSONE
Emergency Telephone: (718) 456-8207
Operator: CONSOLIDATED CARPET
Operator Telephone: (718) 456-8207
Owner Name: CONSOLIDATED CARPET TRADE WORKROOM INC.
Owner Address: 1181 GRAND STREET
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Telephone: (718) 456-8207
Owner Type: Corporate/Commercial

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Owner Subtype:	Not reported
Mailing Name:	CONSOLIDATED CARPET TRADE WORKROOM
Mailing Address:	Not reported
Mailing Address 2:	1181 GRAND STREET
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	MICHAEL TASSONE
Mailing Telephone:	(718) 456-8207
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1181 GRAND ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/25/1996
Expiration Date:	10/15/1997
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	08/01/1994
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/1996
Test Method:	Horner EZ Check

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	08/01/1994
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	03/01/1997
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

CONSOLIDATED CARPET TRADE WORKROOM INC. (Continued) **U003065847**

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

L361 **MANHOLE #14154** **NY Spills** **S106735854**
SSE **1181 GRAND ST/STEWART AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.107 mi.
566 ft. **Site 4 of 13 in cluster L**

Relative:
Lower

Actual:
6 ft.

NY Spills:

Site ID:	334558
Facility Addr2:	Not reported
Facility ID:	0409754
Spill Number:	0409754
Facility Type:	ER
SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported
Spill Date:	12/1/2004
Reported to Dept:	12/1/2004
CID:	407
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/5/2005
Remediation Phase:	0
Date Entered In Computer:	12/1/2004
Spill Record Last Update:	5/5/2005
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Region:	2
DER Facility ID:	269780
DEC Memo:	A R. MIROWSKI REPORTS he FOUND APPROX. 1 GAL OF UNKNOWN OIL ON APPROX. 20 GAL'S OF WATER. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. OWNER OF SUBSTANCES IS UNKNOWN. NO KNOWN SUBSTANTIAL CRACKS IN STRUCTURE. ENIVIR. TAG# 31673 PLACED. 1 LIQ. SAMPLE TAKEN FROM SPILL. Lab Sequence Number: 04-09968-001 MATRIX: WATER&OIL GRAB - ANALYSIS INDICATES THE PRESENCE OF A MIXTURE OF A LIGHT FUEL OIL AND ASPHALT. UPDATE: DEC-01-2004 2120HRS LAB RESULTS RETURNED. LSN# 04-09967-001 < 1.PPM Lab Sequence Number: 04-09984-001 - Flash Point, PMCC > 140 deg F UPDATE: 02-DEC-2004 0225HRS IOCCO ENVIROMENTAL OPS REPORTS DOUBLE WASHED STRUCTURE WITH BIO GEN 760. TANKER REMOVED ALL LIQUIDS. VACTOR REMOVED ALL SOLIDS. SUMP WAS FOUND SEALED. REMOVE TAG # 31673. JOB COMPLETE 100%
Remarks:	Taking sample for flashpoint. 156421.

Material:

Site ID:	334558
Operable Unit ID:	1096687
Operable Unit:	01

MANHOLE #14154 (Continued) **S106735854**

Material ID:	576603
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

M362 **1100 GRAND ST/BKLYN/CIBRO** **HIST LTANKS** **S102633581**
SSE **1100 GRAND STREET** **MOSF UST** **N/A**
< 1/8 **NEW YORK CITY, NY** **MOSF AST**
0.109 mi. **NY Spills**
578 ft. **Site 1 of 2 in cluster M** **NY Hist Spills**
MOSF

Relative:
Higher

Actual:
13 ft.

HIST LTANKS:

Region of Spill:	2
Spill Number:	9007551
Spill Date:	10/10/1990
Spill Time:	16:00
Spill Cause:	Tank Failure
Resource Affectd:	Surface Water
Water Affected:	KILLS
Spill Source:	Major Facility 400,000 gallons
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	BREEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/10/90
Reported to Department Time:	16:32

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: CIBRO
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 387-6641
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/10/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 01/23/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5000
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: DEC SIGONA REASSIGNED TO GEORGE BREEN ON 1/23/98
Spill Cause: TANK OVERFILL, BARGE UNLOADING INTO 200K TANK, HUMAN ERROR CAUSED OVERFILL, AAA IS ON SITE TO CLEAN UP BOOMS HAVE BEEN DEPLOYED, USCG HAS BEEN NOTIFIED, NYCDEP NYCFD ALSO NOTIFIED.

MOSF UST:
Facility ID: 2-1280
SWIS Code: 61
Facility Town: NEW YORK CITY
Contact Phone: (718) 387-6641
Emerg Contact: VINCENT ALLEGRETTI
Emergency Telephone: (718) 372-9800

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

CBS Number:	Not reported
SPDES Num:	0-007641
Total Tanks:	8
Total Capacity:	1651241
Avg Throughput:	130000
License Stat:	1
Facility Status:	ACTIVE FACILITY
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AC
Expiration Date:	03/31/2002
Applic Rcvd:	01/05/2001
Operator:	VINCENT ALLEGRETTI
Owner Name:	BAYSIDE FUEL OIL DEPOT CORP.
Owner Address:	1776 SHORE PARKWAY
Owner City,St,Zip:	BROOKLYN, NY 11214-
Owner Telephone:	(718) 372-9800
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	Second Owner
Mail To Name:	BAYSIDE FUEL OIL DEPOT CORP.
Mail To Address:	1776 SHORE PARKWAY
Mail To Address 2:	PO BOX 140128
Mail City,St,Zip:	BROOKLYN, NY 11214-0002
Mail To Contact:	VINCENT ALLEGRETTI
Mail To Telephone:	(718) 372-9800
Legal Agent Name:	ALFRED ALLEGRETTI
Legal Agent Address:	1776 SHORE PARKWAY
Legal Agent City,St,Zip:	BROOKLYN, NY 11214-
Date Filed:	03/65

Tank ID:	001
Tank Location:	UNDERGROUND
Install Date:	12/37
Capacity (Gal):	99960
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 002
Tank Location: UNDERGROUND
Install Date: 12/37
Capacity (Gal): 249984
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: Epoxy Liner
Tank External: Impressed Current
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: 42
Dispenser: Suction
Test Date: 03/96
Date Closed: Not reported
Latitude: 14|42|45
Longitude: 73|55|45
Status of Data: Complete
Inspected Date: 07/13/1999
Inspector Initials: GN
Inspector Status: Not reported
Pipe Flag: False
License Issued: 04/01/2001
Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 003
Tank Location: UNDERGROUND
Install Date: 12/37
Capacity (Gal): 149982
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: Epoxy Liner
Tank External: Impressed Current
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: 42

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	004
Tank Location:	UNDERGROUND
Install Date:	12/37
Capacity (Gal):	249984
Product:	DIESEL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	005
Tank Location:	UNDERGROUND
Install Date:	12/37
Capacity (Gal):	249984
Product:	DIESEL

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Impressed Current
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	42
Dispenser:	Suction
Test Date:	03/96
Date Closed:	Not reported
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00A
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 00B
Tank Location: UNDERGROUND
Install Date: 12/65
Capacity (Gal): 550
Product: EMPTY
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: None
Dispenser: Suction
Test Date: 01/88
Date Closed: 00/00
Latitude: 14|42|45
Longitude: 73|55|45
Status of Data: Complete
Inspected Date: 07/13/1999
Inspector Initials: GN
Inspector Status: Not reported
Pipe Flag: False
License Issued: 04/01/2001
Vessel Id: Not reported
Renew Flag: True
Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

Tank ID: 00C
Tank Location: UNDERGROUND
Install Date: 12/65
Capacity (Gal): 550
Product: EMPTY
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Contain: None
Leak Detection: Groundwater Well
Overfill Protection: None
Dispenser: Suction

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Test Date:	01/88
Date Closed:	00/00
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	00D
Tank Location:	UNDERGROUND
Install Date:	12/65
Capacity (Gal):	550
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Suction
Test Date:	01/88
Date Closed:	00/00
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Complete
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	OBF1
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	2000
Product:	EMPTY
Tank Status:	In Service

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Not reported
Test Date:	Not reported
Date Closed:	00/00
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Minor Errors
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	10/31/2001
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	OPS
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	7200
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Contain:	None
Leak Detection:	Groundwater Well
Overfill Protection:	None
Dispenser:	Not reported
Test Date:	Not reported
Date Closed:	00/00
Latitude:	14|42|45
Longitude:	73|55|45
Status of Data:	Minor Errors
Inspected Date:	07/13/1999
Inspector Initials:	GN
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	04/01/2001
Vessel Id:	Not reported
Renew Flag:	True

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Renew Date: 10/31/2001
Federal Id No: Not reported
COI Date: / /

MOSF:
Facility ID: 2-1280
Program Type: MOSF
Dec Region: 2
Expiration Date: 2013/03/31
Tank Status: Active
UTMX: 590199.08129
UTMY: 4507510.1048100

MOSF AST:
MOSF Number: 2-1280
SWIS Code: 61
Facility Town: NEW YORK CITY
Facility Phone: (718) 387-6641
Emergency Contact Name: VINCENT ALLEGRETTI
Emergency Contact Phone: (718) 372-9800
Total Tanks: 8
Total Capacity: 1651241
Daily Throughput: 130000
License Status: 1
Facility Type: STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Product Transfer Operation: AC
Facility Status: ACTIVE FACILITY
Operator Name: VINCENT ALLEGRETTI
Owner Name: BAYSIDE FUEL OIL DEPOT CORP.
Owner Address: 1776 SHORE PARKWAY
Owner City,St,Zip: BROOKLYN, NY 11214-
Owner Phone: (718) 372-9800
Owner Type: Corporate/Commercial
Owner Status: 1
Owner Mark: Second Owner
Mailing Name: BAYSIDE FUEL OIL DEPOT CORP.
Mailing Address: 1776 SHORE PARKWAY
Mailing Address 2: PO BOX 140128
Mailing City,St,Zip: BROOKLYN, NY 11214-0002
Mailing Contact: VINCENT ALLEGRETTI
Mailing Phone: (718) 372-9800
Legal Agent Name: ALFRED ALLEGRETTI
Legal Agent Address: 1776 SHORE PARKWAY
Legal Agent City,St,Zip: BROOKLYN, NY 11214-
LIC Expires: 03/31/2002

Tank ID: 006
Tank Location: ABOVEGROUND
Install Date: 12/72
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: Epoxy Liner
Tank External: 3
Pipe Location: Aboveground
Pipe Type: STEEL/IRON

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	75
Leak Detection:	53
Overfill Protection:	42
Dispensing Mthd:	Suction
Test Date:	06/01
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	649992
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported
Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

Tank ID:	000
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Install Date:	12/88
Product:	EMPTY
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	Concrete Pad w/channels
Overfill Protection:	None
Dispensing Mthd:	Gravity
Test Date:	Not reported
Date Closed:	00/00
Status of Data:	Complete
Capacity (gal):	5000
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported
Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Status of Data:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

Tank ID:	OBF
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Install Date:	08/92
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	81
Leak Detection:	53
Overfill Protection:	64
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	08/92
Status of Data:	Complete
Capacity (gal):	1080
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported
Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

Tank ID:	OBF-2
Tank Location:	ABOVEGROUND
Install Date:	11/99
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	Synthetic Liner
Leak Detection:	None
Overfill Protection:	Vent Whistle
Dispensing Mthd:	Gravity
Test Date:	Not reported
Date Closed:	Not reported
Status of Data:	Complete
Capacity (gal):	275
Lat/Long:	14|42|45 / 73|55|45
Federal ID:	Not reported
Inspected Date:	07/13/1999
Inspector:	GN
Renew Date:	10/31/2001
Inspected State:	Not reported
Pipe Flag:	False
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	In Service
COI Date:	/ /
Date License Issued:	04/01/2001
Date License Application Received:	01/05/2001
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	0-007641
Date Legal Agent Filed with Secretary of State:	03/65

NY Spills:

Site ID:	139621
Facility Addr2:	Not reported
Facility ID:	9104487
Spill Number:	9104487
Facility Type:	ER
SWIS:	2401
Investigator:	LXZIELIN
Referred To:	Not reported
Spill Date:	7/26/1991
Reported to Dept:	7/26/1991
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/25/2009
Remediation Phase:	0
Date Entered In Computer:	7/29/1991
Spill Record Last Update:	3/25/2009
Spiller Name:	Not reported
Spiller Company:	CIBRO
Spiller Address:	Not reported

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	119283
DEC Memo:	03/25/09 - LZ Free product of unknown quantity has been extracted from the well. Presently, no monitoring well at the facility indicates the presence of free product (based on weekly and monthly reports on gauging of monitoring wells). The spill case is closed. . Prior to Sept, 2004 data translation this spill Lead_DEC Field was "BREEN" 11/18/94: REASSIGNED FROM SIGONA TO BREEN ON 11/18/94. 10/10/95: This is additional information about material spilled from the translation of the old spill file: WEATHERED #2F.0.
Remarks:	DISCOVERED IN 4" SITE WELL #2

Material:

Site ID:	139621
Operable Unit ID:	955257
Operable Unit:	01
Material ID:	423551
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	139620
Facility Addr2:	Not reported
Facility ID:	9007551
Spill Number:	9007551
Facility Type:	ER
SWIS:	2401
Investigator:	LXZIELIN
Referred To:	Not reported
Spill Date:	10/10/1990
Reported to Dept:	10/10/1990
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	KILLS

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Spill Source:	Major Facility > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/25/2009
Remediation Phase:	0
Date Entered In Computer:	10/10/1990
Spill Record Last Update:	3/25/2009
Spiller Name:	Not reported
Spiller Company:	CIBRO
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	119283
DEC Memo:	03/25/09 - LZ The spill has been contained by employing booms and cleaned up. The spill case is closed. Prior to Sept, 2004 data translation this spill Lead_DEC Field was "BREEN" DEC SIGONA REASSIGNED TO GEORGE BREEN ON 1/23/98
Remarks:	TANK OVERFILL, BARGE UNLOADING INTO 200K TANK, HUMAN ERROR CAUSED OVERFILL, AAA IS ON SITE TO CLEAN UP BOOMS HAVE BEEN DEPLOYED, USCG HAS BEEN NOTIFIED, NYCDEP & NYCFD ALSO NOTIFIED.

Material:

Site ID:	139620
Operable Unit ID:	948205
Operable Unit:	01
Material ID:	431403
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5000
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9104487
Investigator:	BREEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/26/1991 12:30
Reported to Dept Date/Time:	07/26/91 12:45
SWIS:	61
Spiller Name:	CIBRO
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	Groundwater
Water Affected:	Not reported
Spill Source:	03
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	07/29/91
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/18/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False

1100 GRAND ST/BKLYN/CIBRO (Continued) **S102633581**

Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 11/18/94: REASSIGNED FROM SIGONA TO BREEN ON 11/18/94. 10/10/95: This is additional information about material spilled from the translation of the old spill file: WEATHERED 2F.0.
Remark: DISCOVERED IN 4 SITE WELL 2

MOSF:
Facility ID: 2-1280
Program Type: MOSF
Dec Region: 2
Expiration Date: 2013/03/31
Tank Status: Active
UTMX: 590199.08129
UTMY: 4507510.1048100

M363 **BAYSIDE FUEL OIL DEPOT-1100 GRAND ST** **RCRA-NonGen** **1000366366**
SSE **1100 GRAND ST** **FTTS** **NYD980526420**
< 1/8 **BROOKLYN, NY 11211** **HIST FTTS**
0.109 mi. **FINDS**
578 ft. **Site 2 of 2 in cluster M**

Relative:
Higher

Actual:
13 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: BAYSIDE FUEL OIL DEPOT CORP
Facility address: 1100 GRAND ST
BROOKLYN, NY 112111701
EPA ID: NYD980526420
Mailing address: SHORE PKWY
BROOKLYN, NY 11214
Contact: Not reported
Contact address: SHORE PKWY
BROOKLYN, NY 11214
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ALFRED ALLEGRETTI
Owner/operator address: 1776 SHORE PKWY
BROOKLYN, NY 11214
Owner/operator country: US
Owner/operator telephone: (718) 372-9800
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **1000366366**

Owner/operator name: ALFRED ALLEGRETTI
Owner/operator address: 1776 SHORE PKWY
BROOKLYN, NY 11214
Owner/operator country: US
Owner/operator telephone: (718) 372-9800
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BAYSIDE FUEL OIL DEPOT CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: BAYSIDE FUEL OIL DEPOT CORP
Classification: Not a generator, verified

Date form received by agency: 04/06/1998
Facility name: BAYSIDE FUEL OIL DEPOT CORP
Classification: Small Quantity Generator

Violation Status: No violations found

FTTS INSP:
Inspection Number: 2000062114616 2
Region: 02
Inspection Date: 06/21/00
Inspector: A. REDDY, DT
Violation occurred: No
Investigation Type: EPCRA, Enforcement, Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Processor

HIST FTTS INSP:
Inspection Number: 2000062114616 2

BAYSIDE FUEL OIL DEPOT-1100 GRAND ST (Continued) **1000366366**

Region: 02
Inspection Date: Not reported
Inspector: A. REDDY, DT
Violation occurred: No
Investigation Type: EPCRA, Enforcement, Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: EPCRA
Facility Function: Processor

FINDS:

Registry ID: 110004386860

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

US Facility Response Plan (FRP) contains plans for responding, to the maximum extent practical, to worst case discharges of oil.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

I364 **MANHATTAN POLY BAG** **RCRA-NonGen** **1007204964**
SSE **1150 METROPOLITAN AVENUE** **MANIFEST** **NYD098227267**
< 1/8 **BROOKLYN, NY 11237**
0.113 mi.
595 ft. **Site 4 of 7 in cluster I**

Relative:
Lower

Actual:
9 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	MANHATTAN POLY BAG
Facility address:	1150 METROPOLITAN AVENUE BROOKLYN, NY 112370000
EPA ID:	NYD098227267
Contact:	GARY KAUFMAN
Contact address:	1150 METROPOLITAN AVENUE BROOKLYN, NY 112370000
Contact country:	US
Contact telephone:	(718) 326-4770
Telephone ext.:	9999
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	MANHATTAN POLY BAG
Classification:	Not a generator, verified

Date form received by agency:	01/20/1992
Facility name:	MANHATTAN POLY BAG
Classification:	Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYD098227267
Country:	USA
Mailing Name:	MANHATTAN POLYBAG CO
Mailing Contact:	MANHATTAN POLYBAG CO
Mailing Address:	1150 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN

MANHATTAN POLY BAG (Continued) **1007204964**

Mailing State:	NY
Mailing Zip:	11237
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-326-4770

Document ID:	NJA1929562
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	941020
Trans1 Recv Date:	941020
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941027
Part A Recv Date:	941028
Part B Recv Date:	941108
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1966845
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	08690
Generator Ship Date:	940930
Trans1 Recv Date:	940930
Trans2 Recv Date:	941003
TSD Site Recv Date:	941004
Part A Recv Date:	941007
Part B Recv Date:	941017
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ILD984908202
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1931127
Manifest Status:	Completed copy

MANHATTAN POLY BAG (Continued) **1007204964**

Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	940803
Trans1 Recv Date:	940803
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940805
Part A Recv Date:	940816
Part B Recv Date:	940819
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1954920
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	941208
Trans1 Recv Date:	941208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941212
Part A Recv Date:	941215
Part B Recv Date:	941222
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA0700158
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS869
Trans2 State ID:	NJDEPS869
Generator Ship Date:	900314
Trans1 Recv Date:	900314
Trans2 Recv Date:	900314
TSD Site Recv Date:	900315
Part A Recv Date:	900402
Part B Recv Date:	900410
Generator EPA ID:	NYD098227267

MANHATTAN POLY BAG (Continued) **1007204964**

Trans1 EPA ID: ILD051060408
Trans2 EPA ID: ILD051060408
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01314
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 90

Document ID: NJA0817542
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 900327
Trans1 Recv Date: 900327
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900327
Part A Recv Date: 900419
Part B Recv Date: 900411
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00440
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 90

Document ID: NJA0927732
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 900627
Trans1 Recv Date: 900627
Trans2 Recv Date: 900628
TSD Site Recv Date: 900628
Part A Recv Date: 900806
Part B Recv Date: 900716
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: ILD051060408
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00880
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.

MANHATTAN POLY BAG (Continued) **1007204964**

Specific Gravity: 100
Year: 90

Document ID: NJA0927942
Manifest Status: Completed copy
Trans1 State ID: NJDEPS869
Trans2 State ID: NJDEPS869
Generator Ship Date: 900829
Trans1 Recv Date: 900829
Trans2 Recv Date: 900829
TSD Site Recv Date: 900830
Part A Recv Date: 900906
Part B Recv Date: 900912
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: ILD051060408
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01320
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 90

Document ID: NJA2077207
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: Not reported
Generator Ship Date: 950301
Trans1 Recv Date: 950301
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950302
Part A Recv Date: 950313
Part B Recv Date: 950314
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01756
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95

Document ID: NJA2168139
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: Not reported
Generator Ship Date: 950602

MANHATTAN POLY BAG (Continued) **1007204964**

Trans1 Recv Date: 950602
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950606
Part A Recv Date: 950608
Part B Recv Date: 950622
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 02010
Units: P - Pounds
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95

Document ID: NJA1927326
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: 08690
Generator Ship Date: 941117
Trans1 Recv Date: 941117
Trans2 Recv Date: 941121
TSD Site Recv Date: 941121
Part A Recv Date: 941125
Part B Recv Date: 941202
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: ILD984908202
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01759
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

Document ID: NJA1951272
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: 00602
Generator Ship Date: 940706
Trans1 Recv Date: 940706
Trans2 Recv Date: 940712
TSD Site Recv Date: 940712
Part A Recv Date: 940714
Part B Recv Date: 940722
Generator EPA ID: NYD098227267
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: NYD980769947
TSDF ID: NJD002182897

MANHATTAN POLY BAG (Continued) **1007204964**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1932436
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950208
Trans1 Recv Date:	950208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950209
Part A Recv Date:	950216
Part B Recv Date:	950222
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01704
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2113609
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950503
Trans1 Recv Date:	950503
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950505
Part A Recv Date:	950511
Part B Recv Date:	950518
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02010
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

MANHATTAN POLY BAG (Continued) **1007204964**

Document ID:	NJA2054600
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	950105
Trans1 Recv Date:	950105
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950109
Part A Recv Date:	950117
Part B Recv Date:	950123
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01759
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2153540
Manifest Status:	Completed copy
Trans1 State ID:	NJDE08690
Trans2 State ID:	Not reported
Generator Ship Date:	950712
Trans1 Recv Date:	950712
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950714
Part A Recv Date:	950727
Part B Recv Date:	950728
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02010
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2085435
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950803
Trans1 Recv Date:	950803
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950808
Part A Recv Date:	950811

MANHATTAN POLY BAG (Continued) **1007204964**

Part B Recv Date:	950825
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02010
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2085421
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	S10342
Generator Ship Date:	950907
Trans1 Recv Date:	950907
Trans2 Recv Date:	950913
TSD Site Recv Date:	950914
Part A Recv Date:	950918
Part B Recv Date:	951002
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	NJD000813477
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02010
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2113576
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950405
Trans1 Recv Date:	950405
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950407
Part A Recv Date:	Not reported
Part B Recv Date:	950421
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02010
Units:	P - Pounds
Number of Containers:	005

MANHATTAN POLY BAG (Continued) **1007204964**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA0701632
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS869
Trans2 State ID:	Not reported
Generator Ship Date:	900606
Trans1 Recv Date:	900606
Trans2 Recv Date:	900606
TSD Site Recv Date:	900607
Part A Recv Date:	900720
Part B Recv Date:	900726
Generator EPA ID:	NYD098227267
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	ILD051060408
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00880
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Click this hyperlink while viewing on your computer to access
45 additional NY_MANIFEST: record(s) in the EDR Site Report.

I365 **AID AUTO STORES, INC.** **RCRA-NonGen** **1000102708**
SSE **1150 METROPOLITAN AVE** **FINDS** **NYD058581497**
< 1/8 **BROOKLYN, NY 11237**
0.113 mi.
595 ft. **Site 5 of 7 in cluster I**

Relative:
Lower

Actual:
9 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	AID AUTO STORES, INC.
Facility address:	1150 METROPOLITAN AVE BROOKLYN, NY 112371006
EPA ID:	NYD058581497
Mailing address:	METROPOLITAN AVE BROOKLYN, NY 11237
Contact:	Not reported
Contact address:	METROPOLITAN AVE BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

AID AUTO STORES, INC. (Continued) **1000102708**

Owner/Operator Summary:
Owner/operator name: AID AUTO STORES INC.
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AID AUTO STORES INC.
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: AID AUTO STORES, INC.
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: AID AUTO STORES, INC.
Classification: Not a generator, verified

Date form received by agency: 03/11/1982
Facility name: AID AUTO STORES, INC.
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/30/1988

AID AUTO STORES, INC. (Continued) **1000102708**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110009467460

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

I366 **MANHATTAN POLY BAG CORP** **RCRA-CESQG** **1000239979**
SSE **1150 METROPOLITAN AVE** **AST** **NYD982272627**
< 1/8 **BROOKLYN, NY 11237** **HIST AST**
0.113 mi. **MANIFEST**
595 ft. **Site 6 of 7 in cluster I**

Relative:
Lower

Actual:
9 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: MANHATTAN POLY BAG CORP
Facility address: METROPOLITAN AVE
BROOKLYN, NY 11237
EPA ID: NYD982272627
Contact: GARY R KAUFMAN
Contact address: METROPOLITAN AVE
BROOKLYN, NY 11237
Contact country: US
Contact telephone: (718) 326-4770
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: WILLIAM KAUFMAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MANHATTAN POLY REALTY
Owner/operator address: METROPOLITAN AVE
BROOKLYN, NY 11237
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/01/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: MANHATTAN POLY BAG CORP
Classification: Small Quantity Generator

Date form received by agency: 02/28/2004
Facility name: MANHATTAN POLY BAG CORP
Classification: Large Quantity Generator

Date form received by agency: 02/21/2002
Facility name: MANHATTAN POLY BAG CORP
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001
Facility name: MANHATTAN POLY BAG CORP
Classification: Large Quantity Generator

Date form received by agency: 07/29/1999
Facility name: MANHATTAN POLY BAG CORP
Classification: Large Quantity Generator

Date form received by agency: 02/25/1998

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Facility name: MANHATTAN POLY BAG CORP
Site name: MANHATTAN POLY BAG
Classification: Large Quantity Generator

Date form received by agency: 09/11/1987
Facility name: MANHATTAN POLY BAG CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: SR - 372.2a2,3&b2;373-3.3g;376.1g,h
Area of violation: Generators - General
Date violation determined: 01/28/2002
Date achieved compliance: 02/21/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/04/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/25/1994
Date achieved compliance: 04/28/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/25/1994
Date achieved compliance: 04/28/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/25/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 01/28/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/21/2002

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Evaluation lead agency: State

Evaluation date: 11/11/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/25/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 04/28/1994
Evaluation lead agency: State

Evaluation date: 01/25/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/28/1994
Evaluation lead agency: State

Evaluation date: 01/19/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/15/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-248746
Program Type: PBS
UTM X: 590352.85629999998
UTM Y: 4507571.9981000004
Expiration Date: 2007/07/07

Affiliation Records:
Site Id: 9843
Affiliation Type: Owner
Company Name: MANHATTAN POLY BAG CORP
Contact Type: Not reported
Contact Name: Not reported
Address1: 1150 METROPOLITAN AVE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 326-4770
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	9843
Affiliation Type:	Mail Contact
Company Name:	MANHATTAN POLY BAG CORP
Contact Type:	Not reported
Contact Name:	GARY KAUFMAN
Address1:	1150 METROPOLITAN AVE
Address2:	PO BOX 370-713
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 326-4770
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	9843
Affiliation Type:	Emergency Contact
Company Name:	MANHATTAN POLY BAG CORP
Contact Type:	Not reported
Contact Name:	GARY KAUFMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 326-4770
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	9843
Affiliation Type:	On-Site Operator
Company Name:	MANHATTAN POLY BAG CORP
Contact Type:	Not reported
Contact Name:	GARY KAUFMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 326-4770
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Equipment Records:

H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping

Tank Info:

Tank Number:	004
Tank Id:	11157
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST AST:

PBS Number:	2-248746
SWIS Code:	6101
Operator:	GARY KAUFMAN
Facility Phone:	(718) 326-4770
Facility Addr2:	1150 METROPOLITAN AVE
Facility Type:	OTHER
Emergency:	GARY KAUFMAN
Emergency Tel:	(718) 326-4770
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	MANHATTAN POLY BAG CORP
Owner Address:	1150 METROPOLITAN AVE
Owner City,St,Zip:	BROOKLYN, NY 11237
Federal ID:	Not reported
Owner Tel:	(718) 326-4770
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	GARY KAUFMAN
Mailing Name:	MANHATTAN POLY BAG CORP
Mailing Address:	1150 METROPOLITAN AVE
Mailing Address 2:	PO BOX 370-713
Mailing City,St,Zip:	BROOKLYN, NY 11237
Mailing Telephone:	(718) 326-4770

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	07/11/1997
Expiration:	07/07/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	5000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	004
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

NY MANIFEST:

EPA ID:	NYD982272627
Country:	USA
Mailing Name:	MANHATTAN POLYBAG CORP
Mailing Contact:	GARY KAUFMAN
Mailing Address:	1150 METROPOLITAN AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Mailing Zip: 11237
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-326-4770

Document ID: MDC1029725
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 10/09/2003
Trans1 Recv Date: 10/09/2003
Trans2 Recv Date: 10/10/2003
TSD Site Recv Date: 10/13/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160507
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00440
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1026137
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 05/08/2003
Trans1 Recv Date: 05/08/2003
Trans2 Recv Date: 05/09/2003
TSD Site Recv Date: 05/12/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160007
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1026278
Manifest Status: Not reported
Trans1 State ID: MAD039322250

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Trans2 State ID: NJD986607380
Generator Ship Date: 04/10/2003
Trans1 Recv Date: 04/10/2003
Trans2 Recv Date: 04/10/2003
TSD Site Recv Date: 04/16/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160007
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1029939
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 11/21/2003
Trans1 Recv Date: 11/21/2003
Trans2 Recv Date: 11/24/2003
TSD Site Recv Date: 11/25/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH100
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1029998
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 12/19/2003
Trans1 Recv Date: 12/19/2003
Trans2 Recv Date: 12/22/2003
TSD Site Recv Date: 12/23/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Trans2 EPA ID: Not reported
TSDF ID: HWH160000
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 03500
Units: P - Pounds
Number of Containers: 010
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1030415
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: OHD009865825
Generator Ship Date: 06/19/2003
Trans1 Recv Date: 06/19/2003
Trans2 Recv Date: 07/03/2003
TSD Site Recv Date: 07/07/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00710
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 014
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1080390
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 08/21/2003
Trans1 Recv Date: 08/21/2003
Trans2 Recv Date: 08/22/2003
TSD Site Recv Date: 08/25/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00495
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 009
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Year: 03

Document ID: NJA0752185
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NJSWAS300
Trans2 State ID: Not reported
Generator Ship Date: 891120
Trans1 Recv Date: 891120
Trans2 Recv Date: Not reported
TSD Site Recv Date: 891120
Part A Recv Date: 900209
Part B Recv Date: 900214
Generator EPA ID: NYD982272627
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 02000
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89

Document ID: MDC0810235
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 12/10/1999
Trans1 Recv Date: 12/10/1999
Trans2 Recv Date: 12/23/1999
TSD Site Recv Date: 12/23/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWHMA1358
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01500
Units: P - Pounds
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: ILA7867185
Manifest Status: Not reported
Trans1 State ID: NJD071629976
Trans2 State ID: MAD039322250
Generator Ship Date: 04/13/1999
Trans1 Recv Date: 04/13/1999

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Trans2 Recv Date:	04/13/1999
TSD Site Recv Date:	04/27/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00250
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA7789933
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD071629976
Generator Ship Date:	01/25/1999
Trans1 Recv Date:	01/25/1999
Trans2 Recv Date:	01/25/1999
TSD Site Recv Date:	02/10/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01500
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA7867437
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	Not reported
Generator Ship Date:	07/21/1999
Trans1 Recv Date:	07/21/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/04/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	1478
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA7867457
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	OHD009865825
Generator Ship Date:	08/04/1999
Trans1 Recv Date:	08/04/1999
Trans2 Recv Date:	08/06/1999
TSD Site Recv Date:	08/11/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	1478
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	ILA7867243
Manifest Status:	Not reported
Trans1 State ID:	NJD071629976
Trans2 State ID:	MAD039322250
Generator Ship Date:	05/06/1999
Trans1 Recv Date:	05/06/1999
Trans2 Recv Date:	05/06/1999
TSD Site Recv Date:	05/25/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Document ID:	ILA7867380
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	06/11/1999
Trans1 Recv Date:	06/11/1999
Trans2 Recv Date:	06/14/1999
TSD Site Recv Date:	06/24/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	ILD000608471
Trans2 EPA ID:	Not reported
TSDF ID:	13585MA
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	MDC0864109
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	Not reported
Generator Ship Date:	11/03/1999
Trans1 Recv Date:	11/03/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH16099A
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NYG2763729
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	02/14/2003
Trans1 Recv Date:	02/14/2003
Trans2 Recv Date:	02/21/2003
TSD Site Recv Date:	02/25/2003
Part A Recv Date:	Not reported

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: OHD000816629
Trans2 EPA ID: Not reported
TSDF ID: 55837MA
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: NYG1915623
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 01/16/2003
Trans1 Recv Date: 01/16/2003
Trans2 Recv Date: 01/20/2003
TSD Site Recv Date: 01/29/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: OHD000816629
Trans2 EPA ID: Not reported
TSDF ID: 55837MA
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: MDC0892455
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 08/15/2000
Trans1 Recv Date: 08/15/2000
Trans2 Recv Date: 08/21/2000
TSD Site Recv Date: 08/22/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982272627
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH16000A
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002

MANHATTAN POLY BAG CORP (Continued) **1000239979**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	00

Document ID:	MDC0892639
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	11/14/2000
Trans1 Recv Date:	11/14/2000
Trans2 Recv Date:	11/14/2000
TSD Site Recv Date:	11/27/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982272627
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH16000A
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00385
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	00

Click this hyperlink while viewing on your computer to access
82 additional NY_MANIFEST: record(s) in the EDR Site Report.

I367 **METROPOLITAIN AVE & GRAND** **NY Spills** **S102663534**
SSE **METROPOLITAIN AVE & GRAND** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.113 mi.
596 ft. **Site 7 of 7 in cluster I**

Relative:
Higher

Actual:
10 ft.

NY Spills:

Site ID:	322309
Facility Addr2:	Not reported
Facility ID:	9706334
Spill Number:	9706334
Facility Type:	ER
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Spill Date:	8/25/1997
Reported to Dept:	8/25/1997
CID:	205
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended

METROPOLITAIN AVE & GRAND (Continued) **S102663534**

UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/25/1997
Remediation Phase:	0
Date Entered In Computer:	8/25/1997
Spill Record Last Update:	8/26/1997
Spiller Name:	SAME
Spiller Company:	ABC TRANSPORT
Spiller Address:	18-65 4ND STREET
Spiller City,St,Zip:	ASTORIA, NY 11105-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	259651
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT" REFERRED TO FD- SANITATION AND FAXED ECS.
Remarks:	LEAKING FROM TANK AFTER KICKING UP STONE THAT CUT HOSE.

Material:

Site ID:	322309
Operable Unit ID:	1052464
Operable Unit:	01
Material ID:	331917
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9706334
Investigator:	MARTINKAT
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported

METROPOLITAIN AVE & GRAND (Continued) **S102663534**

Notifier Phone:	Not reported
Spill Date/Time:	08/25/1997 14:20
Reported to Dept Date/Time:	08/25/97 14:20
SWIS:	61
Spiller Name:	ABC TRANSPORT
Spiller Contact:	SAME
Spiller Phone:	Not reported
Spiller Address:	18-65 4ND STREET
Spiller City,St,Zip:	ASTORIA, NY 11105-
Spill Cause:	Equipment Failure
Reported to Dept:	In Sewer
Water Affected:	Not reported
Spill Source:	07
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/25/97
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	08/25/97
Date Spill Entered In Computer Data File:	Not reported
Update Date:	08/26/97
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	100
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728
DEC Remarks:	REFERRED TO FD- SANITATION AND FAXED ECS.
Remark:	LEAKING FROM TANK AFTER KICKING UP STONE THAT CUT HOSE.

N368 **NYC FIRE DEPT ENGINE CO 206** **RCRA-NonGen** **1001197481**
SE **1201 GRAND ST** **FINDS** **NYR000040360**
< 1/8 **BROOKLYN, NY 11211** **MANIFEST**
0.116 mi.
615 ft. **Site 1 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYC FIRE DEPT ENGINE CO 206
Facility address:	1201 GRAND ST BROOKLYN, NY 112111811
EPA ID:	NYR000040360
Mailing address:	GRAND ST BROOKLYN, NY 11206
Contact:	Not reported
Contact address:	GRAND ST BROOKLYN, NY 11206
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYC FIRE DEPT
Owner/operator address:	1201 GRAND ST BROOKLYN, NY 11206
Owner/operator country:	US
Owner/operator telephone:	(718) 965-8206
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC FIRE DEPT
Owner/operator address:	1201 GRAND ST BROOKLYN, NY 11206
Owner/operator country:	US
Owner/operator telephone:	(718) 965-8206
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYC FIRE DEPT ENGINE CO 206
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NYC FIRE DEPT ENGINE CO 206
Classification: Not a generator, verified

Date form received by agency: 06/04/1997
Facility name: NYC FIRE DEPT ENGINE CO 206
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004534834

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000040360
Country: USA
Mailing Name: NYC FIRE DEPT ENGINE CO 206
Mailing Contact: DANIEL DONOGHUE
Mailing Address: 1201 GRAND ST
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11206
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-965-8206

Document ID: NJA2754863
Manifest Status: Completed copy
Trans1 State ID: S6993
Trans2 State ID: Not reported
Generator Ship Date: 970609
Trans1 Recv Date: 970609
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970609
Part A Recv Date: Not reported
Part B Recv Date: 970624

NYC FIRE DEPT ENGINE CO 206 (Continued) **1001197481**

Generator EPA ID:	NYR000040360
Trans1 EPA ID:	NJD980772768
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

N369 **ENGINE CO. 206 FDNY -DDC** **NY Spills** **S106013243**
SE **1201 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.116 mi.
615 ft. **Site 2 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

NY Spills:

Site ID:	122965
Facility Addr2:	Not reported
Facility ID:	0300635
Spill Number:	0300635
Facility Type:	ER
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	NFA
Spill Date:	4/17/2003
Reported to Dept:	4/17/2003
CID:	205
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/10/2008
Remediation Phase:	0
Date Entered In Computer:	4/17/2003
Spill Record Last Update:	4/17/2009
Spiller Name:	CALLER
Spiller Company:	NYC FIRE ENGINE 206
Spiller Address:	1201 GRANT STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	106588
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY" 4/21/03. A. Zhitomirsky reported that about 1 foot of diesel accumulated in a GW monitoring well. URS was contacted to

ENGINE CO. 206 FDNY -DDC (Continued) **S106013243**

investigate and pump out the well. Y.K. It's a new spill at the same location. Diesel leaked from dispensers into the ground and was found in monitoring wells. Monitoring wells were vacuumed, were dispensers repaired and contaminated soil was removed. Alex Zhitomirsky visited the site on April 18, 2003. See also spill # 9703500. 4/18/2005 Request to terminate operation of SVE system was granted. GW monitoring will be continued on a quaterly basis. AZ 10/31/2005 Reviewed Free Product Recovery/Quaterly GW Monitoring Report through 2nd Quarter 2005. MW-1 had increase from 135 ppb (2/2005) to 186 (5/05) ppb in VOCs and from 102 ppb to 284 ppb. MW- 1 is sidegradient to the tank field and gw flow. There is no downgradient well to well MW-1. Free Product site. AZ 8/9/2006 Reviewed a report submitted by Greyhawk on Aug. 3, 2006. Roux recommended conduct one additional groundwater sampling round (MW-1), decommision SVE system and replace absorbent sock in MW-1. AZ 12/22/2006 At the meeting with DDC/Greyhawk on 12/12/2006 the remedial progress was discussed. Greyhawk will perform one more monitoring event with an absorbent sock. The absorbent sock will be removed immediately. AZ 12/08/2006 Reviewed a report submitted by Greyhawk on Nov. 20, 2006 for the period of July through September 2006. According to the report, URS stated that since November 2004, no product only product sheen had been encountered in MW-01. This well is located adjacent to the former source of the diesel fuel spill which has been from a faulty dispenser. According to the report: "However, petroleum absorbent socks placed in this monitoring well would have absorbed product that might otherwise have accumulated in a measurable quantity." On the other hand, Roux stating that "No free phase product or product sheen is currently detected in site monitoring wells." A petroleum absorbent sock is installed in MW-01 to absorb any product sheen that might collect in this well. MW- 1 was the only well sampled. The total concentration of VOC in MW-1 was 23 ppb. MW-3 and MW-4 had been removed from the sampling program after the first quarter of 2005 due to low concentrations of VOCs and SVOCs. Roux recommended terminate the monitoring program, close spills and remove the SVE system. AZ 4/18/2007 Reviewed October-December 2006 Monitoring Report dated March 15, 2007. Absorbent sock was removed from MW-1 on 10/26/07. An e-mail was sent to Roux/GReyhawk/DDC: I have reviewed the 4th quarter monitoring report for this site. Based on my review, I offer the following comments: The SVE system could be disassembled and removed from the site. As it was explained to Roux in our previous correspondence, request for a site closure should be preceded by a round of groundwater gaging and sampling which should include all monitoring wells. In meanwhile, Roux could reduce the sampling and gauging to semi-annual frequency at this site. AZ 2-10-2007 Reviewed January-June 2007 Monitoring Report. An e-mail was sent to DDC/Roux/VB:"I have reviewed semi-annual monitoring report submitted for the above site. Also, we have discussed this project over the phone. Roux suggested terminating the monitoring program and issue NFA for this site. However, monitoring wells MW-03 and MW-04 exhibited elevated concentrations of VOC. Apparently these wells previously did not exhibit any exceedances. According to Roux, no trends can be ascertained for total VOCs and SVOCs for these wells. Moreover, these wells are located directly downgradient from the former source of the spill, a faulty dispenser. Based on this information, I recommend performing another round of groundwater monitoring. AZ 8-10-2008 An e-mail was sent to DDC/Roux/Greyhawk/V. Brevdo: "I have reviewed report for the above site for the period of

ENGINE CO. 206 FDNY -DDC (Continued) **S106013243**

July through December 2007. The report stated that SVE system was constructed at the site in 2002 to remediate the existing soil contamination. In 2005 URS advanced six confirmation soil borings. In a letter dated April 5 2005, URS suggested the SVE system appeared to have reached asymptotic conditions and presented results of the confirmation soil sampling requesting termination of SVE system. Also, URS proposed groundwater monitoring. DEC approved these proposals. Roux performed semi-annual groundwater sampling of four wells in October 2007. No VOCs were detected that exceeded any NYSDEC AWQSGV. With the exception of the 27 ppb detection of acenaphthene in MW-04, no SVOCs were detected during the October 2007 sampling round. No VOCs were detected in MW-01 for three consecutive groundwater sampling rounds, and no SVOCs were detected in MW-01 for six sampling rounds. Roux recommended termination of the monitoring program and closing spill #0300635. DEC concurs with Roux findings. Spill #0300635 is closed. However, spill closure requests for the sites where soil contamination was encountered and treated should be accompanied by a soil plume map with the latest soil laboratory data. This map and the data were not included in the report. This information should be submitted to DEC within a month. Information regarding soil sampling performed near diesel and gasoline fill ports should be included in the report. If the above information is not submitted or the submitted information prove that the cleanup has not been completed DEC may reactivate this spill number. " AZ 7-14-2008 As per my request, Roux sent e-copy of the latest soil sampling report which was e-doc'ed. I contacted B. Morrissey. He will submit modified closure report (electronic version). AZ 4-17-2009 An e-mail sent to Roux/DDC: "Roux recommended that wells associated with the investigation of Spill#0300635 (which was closed) should be properly abandoned. This recommendation is approved. However, if some wells could be used for evaluation of spill #0012768, then these wells should remain open." AZ

Remarks: valve leaked to ground on fuel system. leak stopped. cleanup not started.

Material:

Site ID:	122965
Operable Unit ID:	866992
Operable Unit:	01
Material ID:	508712
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported

ENGINE CO. 206 FDNY -DDC (Continued) **S106013243**

Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

N370 **ENGINE CO 206-NYCFD** **NY Spills S103570786**
SE **1201 GRAND ST** **NY Hist Spills N/A**
< 1/8 **BROOKLYN, NY**
0.116 mi.
615 ft. **Site 3 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

NY Spills:

Site ID:	100396
Facility Addr2:	Not reported
Facility ID:	9703500
Spill Number:	9703500
Facility Type:	ER
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	Not reported
Spill Date:	6/20/1997
Reported to Dept:	6/20/1997
CID:	369
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/20/2005
Remediation Phase:	0
Date Entered In Computer:	6/20/1997
Spill Record Last Update:	1/20/2005
Spiller Name:	LT ROBIN MANNINA
Spiller Company:	ENGINE CO 206-NYCFD
Spiller Address:	1201 GRAND ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller Company:	001
Contact Name:	CHRIS STEIN
Contact Phone:	(516) 499-1085
DEC Region:	2
DER Facility ID:	106588
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ZHITOMIRSKY" TRANSFERRED FROM Y.KRIMGOLD. The spill is referred to spill # 0300635 and is closed in consultation with Alex. - II (01/20/05).
Remarks:	CONTAMINATED SOIL AT DIESEL PUMP-CALLER SAYS AS DEEP AS 10 FEET

Material:

Site ID:	100396
Operable Unit ID:	1046294
Operable Unit:	01

ENGINE CO 206-NYCFD (Continued) **S103570786**

Material ID: 336381
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9703500
Investigator: KRIMGOLD
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/20/1997 08:00
Reported to Dept Date/Time: 06/20/97 12:45
SWIS: 61
Spiller Name: ENGINE CO 206-NYCFD
Spiller Contact: LT ROBIN MANNINA
Spiller Phone: (718) 965-8206
Spiller Contact: CHRIS STEIN
Spiller Phone: (516) 499-1085
Spiller Address: 1201 GRAND ST
Spiller City,St,Zip: BROOKLYN
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 02
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /

ENGINE CO 206-NYCFD (Continued) **S103570786**

Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/20/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/23/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: CONTAMINATED SOIL AT DIESEL PUMP-CALLER SAYS AS DEEP AS 10 FEET

N371 **ENGINE COMPANY 206** **HIST UST** **U003178529**
SE **1201 GRAND STREET** **AST** **N/A**
< 1/8 **BROOKLYN, NY 11211** **HIST AST**
0.116 mi.
615 ft. **Site 4 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

HIST UST:
PBS Number: 2-601787
SPDES Number: Not reported
Emergency Contact: EOC/NOTIFICATION DESK
Emergency Telephone: (718) 999-2094
Operator: COMPANY OFFICER
Operator Telephone: (718) 965-8206
Owner Name: F.D.N.Y.
Owner Address: 9 METROTECH CENTER
Owner City,St,Zip: BROOKLYN, NY 11201-3857
Owner Telephone: (718) 999-2094
Owner Type: Local Government
Owner Subtype: Not reported
Mailing Name: F.D.N.Y. - BLDG. MAINTENANCE
Mailing Address: 48-34 35TH STREET
Mailing Address 2: Not reported
Mailing City,St,Zip: LONG ISLAND CITY, NY 11101
Mailing Contact: DIRECTOR

ENGINE COMPANY 206 (Continued) **U003178529**

Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1201 GRAND STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/27/1999
Expiration Date:	03/16/2004
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	825
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	02/01/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003

ENGINE COMPANY 206 (Continued) **U003178529**

Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	1100
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-601787
Program Type:	PBS
UTM X:	590588.84352999995
UTM Y:	4507655.9459300004
Expiration Date:	N/A

Affiliation Records:

Site Id:	23749
Affiliation Type:	Emergency Contact
Company Name:	F.D.N.Y.
Contact Type:	Not reported
Contact Name:	EOC/NOTIFICATION DESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	1/7/2010

Site Id:	23749
Affiliation Type:	Mail Contact
Company Name:	F.D.N.Y. - BLDG. MAINTENANCE

ENGINE COMPANY 206 (Continued) **U003178529**

Contact Type:	Not reported
Contact Name:	DIRECTOR
Address1:	48-34 35TH STREET
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 784-6510
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23749
Affiliation Type:	Owner
Company Name:	F.D.N.Y.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	9 METROTECH CENTER
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201-3857
Country Code:	001
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23749
Affiliation Type:	On-Site Operator
Company Name:	ENGINE COMPANY 206
Contact Type:	Not reported
Contact Name:	COMPANY OFFICER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 965-8206
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
F05 - Pipe External Protection - Jacketed
F04 - Pipe External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)

ENGINE COMPANY 206 (Continued) **U003178529**

B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
H05 - Tank Leak Detection - In-Tank System (ATG)
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
J00 - Dispenser - None
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
B00 - Tank External Protection - None
J00 - Dispenser - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
I00 - Overfill - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
I02 - Overfill - High Level Alarm

Tank Info:

Tank Number:	002
Tank Id:	47794
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1100
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

ENGINE COMPANY 206 (Continued) **U003178529**

Date Tank Closed: 5/1/1997
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Tank Number: 004
Tank Id: 47796
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Tank Number: 005
Tank Id: 55980
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 12/1/1998
Capacity Gallons: 550
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST AST:
PBS Number: 2-601787
SWIS Code: 6101
Operator: COMPANY OFFICER
Facility Phone: (718) 965-8206
Facility Addr2: 1201 GRAND STREET
Facility Type: OTHER
Emergency: EOC/NOTIFICATION DESK
Emergency Tel: (718) 999-2094
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: F.D.N.Y.
Owner Address: 9 METROTECH CENTER
Owner City,St,Zip: BROOKLYN, NY 11201-3857

ENGINE COMPANY 206 (Continued) **U003178529**

Federal ID:	Not reported
Owner Tel:	(718) 999-2094
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	DIRECTOR
Mailing Name:	F.D.N.Y. - BLDG. MAINTENANCE
Mailing Address:	48-34 35TH STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 784-6510
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	08/27/1999
Expiration:	03/16/2004
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	825
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	002
Tank Location:	ABOVEGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (Gal):	1100
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Not reported
Leak Detection:	Not reported
Overfill Protection:	Not reported
Dispenser Method:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	05/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

ENGINE COMPANY 206 (Continued) **U003178529**

Tank ID:	004
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	275
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Excavation/Tranch Liner
Leak Detection:	04
Overfill Protection:	25
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	005
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19981201
Capacity (Gal):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	45
Tank Containment:	Excavation/Tranch Liner
Leak Detection:	04
Overfill Protection:	25
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

N372 **NYC F.D.ENGINE CO.206** **LTANKS** **S104951027**
SE **1201 GRAND ST** **HIST LTANKS** **N/A**
< 1/8 **BROOKLYN, NY**
0.116 mi.
615 ft. **Site 5 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

LTANKS:

Site ID:	100395
Spill No:	0012768
Spill Date:	3/2/2001
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not reported
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	3/2/2001
CID:	390
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	3/2/2001
Spill Record Last Update:	1/7/2011
Spiller Name:	BOB ABRAMO
Spiller Company:	NYC F.D.
Spiller Address:	1201 GRAND ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	BOB ABRAMO
Spiller Phone:	(718) 442-8200
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	106588
Remarks:	underground tank failed contaminated sopil under tank - f.d. would like it to be left there

Material:

Site ID:	100395
Operable Unit ID:	834300
Operable Unit:	01
Material ID:	543039
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

NYC F.D.ENGINE CO.206 (Continued) **S104951027**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	0012768
Spill Date:	03/02/2001
Spill Time:	09:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	TIPPLE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	03/02/01
Reported to Department Time:	10:05
SWIS:	61
Spiller Contact:	BOB ABRAMO
Spiller Phone:	(718) 442-8200
Spiller Extention:	Not reported
Spiller Name:	NYC F.D.
Spiller Address:	1201 GRAND ST
Spiller City,St,Zip:	BROOKLYN
Spiller Cleanup Date:	/ /
Facility Contact:	BOB ABRAMO
Facility Phone:	(718) 442-8200
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False

NYC F.D.ENGINE CO.206 (Continued) **S104951027**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/02/01
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 08/14/01
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: underground tank failed contaminated sopil under tank - f.d. would like it to be left there

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N373 **ENGINE COMPANY 206** **UST** **U004078183**
SE **1201 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.116 mi.
615 ft. **Site 6 of 9 in cluster N**

Relative:
Lower

Actual:
7 ft.

UST:
Facility Id: 2-601787
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590588.84352999995
UTM Y: 4507655.9459300004

Affiliation Records:
Site Id: 23749
Affiliation Type: Emergency Contact
Company Name: F.D.N.Y.
Contact Type: Not reported
Contact Name: EOC/NOTIFICATION DESK
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported

ENGINE COMPANY 206 (Continued) **U004078183**

Country Code:	999
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	1/7/2010

Site Id:	23749
Affiliation Type:	Mail Contact
Company Name:	F.D.N.Y. - BLDG. MAINTENANCE
Contact Type:	Not reported
Contact Name:	DIRECTOR
Address1:	48-34 35TH STREET
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 784-6510
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23749
Affiliation Type:	Owner
Company Name:	F.D.N.Y.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	9 METROTECH CENTER
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201-3857
Country Code:	001
Phone:	(718) 999-2094
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	23749
Affiliation Type:	On-Site Operator
Company Name:	ENGINE COMPANY 206
Contact Type:	Not reported
Contact Name:	COMPANY OFFICER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 965-8206
Phone Ext:	Not reported

ENGINE COMPANY 206 (Continued) **U004078183**

Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
F05 - Pipe External Protection - Jacketed
F04 - Pipe External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
H05 - Tank Leak Detection - In-Tank System (ATG)
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
J00 - Dispenser - None
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
B00 - Tank External Protection - None
J00 - Dispenser - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
I00 - Overfill - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
I02 - Overfill - High Level Alarm

Tank Info:
Site ID: 23749

ENGINE COMPANY 206 (Continued) **U004078183**

Tank Number:	001
Tank ID:	47793
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	23749
Tank Number:	003
Tank ID:	47795
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1100
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	12/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

J374 **VANDERVOORT AVE/GRANT ST** **NY Spills** **S104283928**
South **VANDERVOORT AVE/GRANT ST** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.118 mi.
622 ft. **Site 4 of 10 in cluster J**

Relative:
Higher

Actual:
13 ft.

NY Spills:

Site ID:	146532
Facility Addr2:	Not reported
Facility ID:	9909780
Spill Number:	9909780
Facility Type:	ER
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Spill Date:	11/12/1999
Reported to Dept:	11/12/1999
CID:	205
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Fire Department

VANDERVOORT AVE/GRANT ST (Continued) **S104283928**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/12/1999
Remediation Phase:	0
Date Entered In Computer:	11/12/1999
Spill Record Last Update:	11/12/1999
Spiller Name:	Not reported
Spiller Company:	GRAZINANO TRUCKING INC.
Spiller Address:	Not reported
Spiller City,St,Zip:	TAYLOR, PA
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	124781
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE" CLEANED BY FD.
Remarks:	SADDLE TANK PUNCTURED IN ACCIDENT. APPROX 1/2 OF SPILL WENT TO SEWER. FD HAZMAT ON SCENE. CONTAINED ON GROUND. OFFLOADING SADDLE TANK.

Material:

Site ID:	146532
Operable Unit ID:	1088467
Operable Unit:	01
Material ID:	298850
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	75
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9909780
Investigator:	TIBBE

VANDERVOORT AVE/GRANT ST (Continued) **S104283928**

Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/12/1999 05:46
Reported to Dept Date/Time:	11/12/99 06:13
SWIS:	61
Spiller Name:	GRAZINANO TRUCKING INC.
Spiller Contact:	Not reported
Spiller Phone:	(800) 666-6027
Spiller Contact:	CALLER
Spiller Phone:	( ) -
Spiller Address:	Not reported
Spiller City,St,Zip:	TAYLOR, PA
Spill Cause:	Traffic Accident
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	07
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/12/99
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/12/99
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/12/99
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	75
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625

VANDERVOORT AVE/GRANT ST (Continued) **S104283928**

CAS Number: Not reported
Last Date: 19940728
DEC Remarks: CLEANED BY FD.
Remark: SADDLE TANK PUNCTURED IN ACCIDENT. APPROX 1/2 OF SPILL WENT TO SEWER. FD HAZMAT ON SCENE. CONTAINED ON GROUND. OFFLOADING SADDLE TANK.

K375 **CON EDISON - MANHOLE 13123** **RCRA-LQG** **1014396333**
WSW **184 MASPETH AVE** **NYP004185955**
< 1/8 **BROOKLYN, NY 11211**
0.119 mi.
629 ft. **Site 4 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

RCRA-LQG:
Date form received by agency: 03/23/2010
Facility name: CON EDISON - MANHOLE 13123
Facility address: 184 MASPETH AVE
BROOKLYN, NY 11211
EPA ID: NYP004185955
Mailing address: 4 IRVING PLACE
NEW YORK, NY 10003
Contact: FRANKLYN MURRAY
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-2808
Contact email: MURRAYFR@CONED.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/23/2009
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported

CON EDISON - MANHOLE 13123 (Continued) **1014396333**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/23/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/23/2009
Facility name: CON EDISON - MANHOLE 13123
Site name: CON EDISON
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

K376 **CONSOLIDATED EDISON MH13123** **MANIFEST** **S110046843**
WSW **184 MASPETH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.119 mi.
629 ft. **Site 5 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

NY MANIFEST:
EPA ID: NYP004185955
Country: USA
Mailing Name: CONSOLIDATED EDISON MH13123
Mailing Contact: FRANKLYN MURRAY
Mailing Address: 4 IRVING PL RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: Not reported
Manifest Status: Not reported

CONSOLIDATED EDISON MH13123 (Continued) **S110046843**

Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-11
Trans1 Recv Date:	2009-08-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-13
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004185955
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894659GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-11
Trans1 Recv Date:	2009-08-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-13
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004185955
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894659GBF

CONSOLIDATED EDISON MH13123 (Continued) **S110046843**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

L377 **MANHOLE #36370** **NY Spills** **S104194308**
SSE **GRAND ST/METROPOLITAN AVE** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.120 mi.
636 ft. **Site 5 of 13 in cluster L**

Relative:
Lower

Actual:
9 ft.

NY Spills:

Site ID:	237077
Facility Addr2:	Not reported
Facility ID:	9906205
Spill Number:	9906205
Facility Type:	ER
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Spill Date:	8/24/1999
Reported to Dept:	8/24/1999
CID:	281
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/10/1999
Remediation Phase:	0
Date Entered In Computer:	8/24/1999
Spill Record Last Update:	6/1/2000
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	BILL MURPHY
Contact Phone:	(212) 580-6763
DEC Region:	2
DER Facility ID:	195318
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL" Con ed e2mis notes: Approx 3-quarts of unknown oil on 1200 gallons of water in MH-36370. Took 1-sample. lsn#99-08878 <1ppm, cleanup complete and tag removed. Incident is closed.

MANHOLE #36370 (Continued) **S104194308**

Remarks: APPROX. 3 QUARTS OF ABOVE MATERIAL DISCOVERED ONTOP OF 1200 GALLONS OF WATER AT ABOVE LOCATION. CLEAN UP PENDING TEST RESULTS. CON ED # 127391. NO CALL BACK REQUESTED.

Material:

Site ID:	237077
Operable Unit ID:	1080645
Operable Unit:	01
Material ID:	302473
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9906205
Investigator:	O'CONNELL
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/24/1999 16:25
Reported to Dept Date/Time:	08/24/99 17:22
SWIS:	61
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	( ) -
Spiller Contact:	BILL MURPHY
Spiller Phone:	(212) 580-6763
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Affected Persons

MANHOLE #36370 (Continued) **S104194308**

PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/10/99
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/24/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/01/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Con ed e2mis notes: Approx 3-quarts of unknown oil on 1200 gallons of water in MH-36370. Took 1-sample. lsn 99-08878 <1ppm, cleanup complete and tag removed. Incident is closed.
Remark: APPROX. 3 QUARTS OF ABOVE MATERIAL DISCOVERED ONTOP OF 1200 GALLONS OF WATER AT ABOVE LOCATION. CLEAN UP PENDING TEST RESULTS. CON ED 127391. NO CALL BACK REQUESTED.

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378 **COMMERCIAL WAREHOUSE** **NY Spills** **S108296225**
SSE **1150 METROPOLITAN AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.121 mi.
640 ft.

Relative:
Lower

Actual:
9 ft.

NY Spills:
Site ID: 373955
Facility Addr2: Not reported
Facility ID: 0609662
Spill Number: 0609662
Facility Type: ER
SWIS: 2401

COMMERCIAL WAREHOUSE (Continued) **S108296225**

Investigator:	AXDORONO
Referred To:	NFA
Spill Date:	11/22/2006
Reported to Dept:	11/22/2006
CID:	410
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/28/2009
Remediation Phase:	0
Date Entered In Computer:	11/22/2006
Spill Record Last Update:	7/28/2009
Spiller Name:	MATT BOECKEL
Spiller Company:	COMMERCIAL WAREHOUSE
Spiller Address:	1150 METROPOLITAN AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	MATT BOECKEL
Contact Phone:	(631) 234-4280
DEC Region:	2
DER Facility ID:	323677
DEC Memo:	12/11/06-Hiralkumar Patel. received message from Matt (Cell: 631-767-9098) from Associated Environmental. spoke to John at Associated and asked him to DEC Rahman. 12/18/06 Rahman- Phase II(partial) Subsurface Investigation is prepared by Associated Environmental Services Ltd(Matthew Boeckel@631.234.4280).The site was utilized as a paving company and a oil company from at least 1807 to the late 1960s.Sanborn Fire Insurance Maps indicated the presence of large gasoline and fuel oil storage tanks.The site is currently utilized as warehouse and distribution purposes.During the Phase II investigation, soil/ground water samples were collected from the ground surface to a depth of 20' below grade.A majority of the site could not be investigated due to the presence of merchandise.Ground water flows to the west, towards English Kills.There was petroleum based odor and staining as well as elevated PID readings detected in the soil samples collected from borings B-1 through B-8. Ground water analytical results show presence of elevated levels of VOCs(MTBE- 33 ug/l,Naphthalene-6900 ug/l),SVOCs and RCRA metals.RP's consultant plans to conduct additional investigation after clearing the interior of the subject building that could not be accessed due to storage of merchandise. Spill case is transferred to Remediation section B for determination regarding further investigation/remedial work. 1/11/2007 - Vadim Brevdo spoke with Matt (Consultant) and agreed that Site Investigation Work Plan can be submitted to Vadim Brevdo's name. Vadim Brevdo 1/25/2007 - Vadim Brevdo spoke with Matt Boeckel of Associated Environmental Service, reviwed and approved remedial investigation work plan dated January 18, 2007. Approval letter is dated January 24. 02/16/07: This spill case transferred from V. Brevdo to J. Kolleeny. Tried calling Matt Boeckel of Associated

COMMERCIAL WAREHOUSE (Continued) **S108296225**

Environmental Services (631-234-4280), but he was out; spoke with John Schretzmayer, mentioned some deficiencies with reports submitted (Phase II Remedial Investigation report (2/7/07) and Interim Remedial Measure Work Plan (2/8/07)), including inaccurate boring labelling on site plan, lack of former tank locations depicted on site plan, and need for greater detail regarding remedial proposal of sodium persulfate injections, such as quantity of material to be injected and health and safety considerations. Also asked that electronic versions of each report be submitted. John said Matt will get back to me. - JK 02/23/07: After discussing deficiencies in Interim Remedial Measure Work Plan with Matt Boeckel of Assoc. Env'tal Svcs, and receiving several faxed revised versions, entitled Remedial Measure Work Plan (with site location figure, Sanborn map showing former tank locations, more detailed discussion of proposed sodium persulfate injections with health and safety considerations, added language about soil sampling during installation of permanent monitoring wells and surveying of wells to determine groundwater flow direction, analytical parameters changed to STARS list of petroleum-related VOCs and SVOCs), I sent approval letter (in eDocs) to 221 Realty Co., LLC of 500 Broadway, Brooklyn, NY 11211, attn: Alex Gross, with cc's to Ken Zucker of Beechwood Mountain, LLC and Matt of AES. Approval letter asked for additional permanent well near boring B-9, installation and sampling of permanent wells prior to chem. ox. injections to determine baseline GW conditions, and commented that if follow-up GW monitoring fails to show sodium persulfate effectiveness, alternative remedial approach must be developed. Also, sent email to Matt of AES asking for hard copy of finalized work plan report, and electronic copies of all site-related reports. - J. Kolleeny 08/07/2007: This spill case was transferred to A. Doronova. -AD 09/2007: Spoke to Matt Boeckel regarding implementation of the work plan. He said that they encountering constant refusal during soil borings, so they need to use different drilling equipment. AES plans to perform this work in a few weeks. Matt will call back with an update information. AD 01/09/2008: Call and spoke with Jon of AES regarding work plan status update. He promised to get back. AD 02/28/2008: Jon of AES called and asked if they may re-locate proposed monitoring wells due to technical difficulties (thick layer of concrete - 3ft and more). He also wants to meet with us at the site. Told him to send us a site diagram with new locations for the wells and said that site visit may be possible next week. Spoke with J. Kolleeny regarding wells installation on this site. Called and left a message to Jon of AES. Talked later with him regarding concrete specification, groundwater depth and if air rotary drilling was applied. Jon said that concrete is re-bar concrete; air rotary drilling could not be applied due to low clearance - 8' and groundwater depth from the basement floor is about 5' deep. The site visit was scheduled on Monday, March 3, 2008. AD 03/03/2008: Received a message from AES, left on Friday, February 29, 2008 at 5 PM, that they would like to re-schedule site visit. Called and spoke with Christina of AES. The site visit was cancelled for today. AD 03/05/2008: Scheduled new site visit for Friday March 7, 2008. AD 03/07/2008: Visited the site with J. Kolleeny. Met there with John Schretzmayer of AES. He showed the property and explained why some of the injection points could not be installed. The soil has some elevated levels of SVOC contamination, groundwater result indicates exeedances in VOC. We discussed the implementation of the proposed remedial action plan and agreed to reduce the numbers of proposed

COMMERCIAL WAREHOUSE (Continued) **S108296225**

injection point from 21 to 15 and add one more monitoring well. AD 08/07/2008: Called and left a message to J. Schretzmayer of AES regarding a summary report submission. AD 08/14/2008: Called and left a message to J. Schretzmayer of AES. AD 08/15/2008: Received a message from AES. The hard copy of the report will be submitted next week. AD 09/19/2008: Did not receive report. Spoke with a secretary of AES, left a message for J. Schretzmayer regarding the report submission. AD 10/14/2008: Called and left a message to J. Schretzmayer to call me back. AES email address is: <AssociatedEnv@aol.com>. AD 10/29/2008: Received the report. DL to eDocs. Will review. AD 11/03/2008: Reviewed the report. It states that a total of four monitoring wells were installed at the site. The analytical results for the April 2008 groundwater samples indicated that there were several VOCs and SVOCs at concentrations exceeding their NYSDEC standards (MTBE in MW-01 at 44 ppb). To remove dissolved phase contamination in the groundwater, AES used sodium persulfate solution (oxidizer) by introducing it via 14 injection wells at a depth of 10 to 15' bellow grade. October 2008 groundwater sampling event was scheduled to determine if the chemical oxidant solution has effectively reduced contaminant concentrations in the groundwater. A summary report will be provided to DEC following October 2008 monitoring event with conclusions and recommendations. AD 03/30/2009: Called to AES and left a message to a secretary for J. Shretzmayer regarding a QMR submission. AD 04/27/2009: Did not receive any response yet. Called and left a message to Mr. Shretzmayer. AD 05/08/2009: Received ecopy of the IRM - Groundwater Sampling Report from J. Shretzmayer of AES via e-mail. DL to eDocs. AD 05/11/2009: Received a hard copy of the report. Will review. AD 05/14/2009: Reviewed the report. It states that on February 9, 2009 AES sampled three out of four monitoring wells at the site. The most contaminated well MW-4 could not be located due to the debris and reorganization of the warehouse. Baseline GW sampling in April 2008 indicated several VOCs and SVOCs at concentrations exceeding their NYSDEC standards (MTBE in MW-01 at 44 ppb). February 2009 sampling results indicated lower levels of SVOCs and MTBE in well MW-1 and ND levels of VOCs and SVOCs in wells MW-2 and MW-3. Based on the analytical results of the GW sampling and due to the fact that the subject site is occupied and soil removal is not feasible, the consultant recommends no further actions for this site. Discussed the site with J. Kolleeny of DEC. Called and spoke with Christine Mazzarella of AES. Asked if the location of the well MW-4 could be found, they should sample it, if not - than they should try to collect groundwater grab sample in its vicinity. Ms. Mazzarella will get back to us with their response. AD 07/13/2009: Received an e-mail from C. Mazzarella of AES saying: "Hello Ainura Attached please find subject report for your review.? Please reference?Spill #06-09662. Please contact us with any questions or comments following your review of the attached. Thank you Christine Mazzarella Associated Environmental Services, Ltd. 25 Central Avenue Hauppauge, New York 11788 631 234 4280 tel 631 234 4297 fax" DL the report to eDocs. Will review. AD 07/21/2009: Reviewed the report. It states that on May 27, 2009 AES sampled one temporary well point in the vicinity of well MW-4, according to the DEC request. The most contaminated well MW-4 could not be located during previous sampling event, due to the debris and reorganization of the warehouse. May 2009 sampling results indicated low levels of SVOCs and MTBE and ND levels of VOCs in the area of well MW-4. Based on historical analytical results of the GW sampling

COMMERCIAL WAREHOUSE (Continued) **S108296225**

and due to the fact that the subject site is occupied and soil removal is not feasible, the consultant recommends no further actions for this site. Discussed the site with J. Kolleeny of DEC. Taking into consideration investigative and remedial activities performed at the site, clear decreasing trend of VOCs and SVOCs in GW, and current GW conditions, it was decided to approve NFA request for this site. AD 07/27/2009: Issued and sent NFA letter. DL to eDocs. Case closed. AD

Remarks: PHASE TWO CONDUCTED AT SITE: LAB RESULTS REVEALED ELEVATED CONATMINENTS IN SOIL AND GROUNDWATER ABOVE STATE LEVEL: SITE WAS HISTORIACALLY UTILIZED FROM EARLY 1900'S TO THE LATE 1960'S AS A ASPHALT PAVING COMPANY, AND OIL TERMINAL:

Material:

Site ID:	373955
Operable Unit ID:	1131643
Operable Unit:	01
Material ID:	2121356
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

J379 **NEW TOWN AUTO SALES & AUTO PARTS INC** **SWF/LF** **S108146024**
South **1074 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.121 mi.
641 ft. **Site 5 of 10 in cluster J**

Relative:
Higher

Actual:
13 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported

NEW TOWN AUTO SALES & AUTO PARTS INC (Continued) **S108146024**

Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	590144
North Coordinate:	4507507
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

J380 **NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR** **AST** **A100295268**
South **1074 GRAND STREET** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.121 mi.
641 ft. **Site 6 of 10 in cluster J**

Relative:
Higher

Actual:
13 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-610198
Program Type:	PBS
UTM X:	590098.90440999996
UTM Y:	4507523.8668900002
Expiration Date:	N/A

Affiliation Records:

Site Id:	363543
Affiliation Type:	Owner
Company Name:	FREDERICK KIRSCHBAUM
Contact Type:	MANAGER
Contact Name:	GEORGE KIRSCHBAUM
Address1:	1935 S.E. 21ST
Address2:	Not reported
City:	CAPE CORAL
State:	FL
Zip Code:	33990
Country Code:	001
Phone:	(347) 386-3391
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/5/2006

Site Id:	363543
Affiliation Type:	Mail Contact
Company Name:	NEWTOWN USED AUTO PARTS/
Contact Type:	Not reported
Contact Name:	GEORGE KIRSCHBAUM

NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR (Continued) **A100295268**

Address1:	SCRAP METAL PROCESSORS
Address2:	1074 GRAND STREET
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 599-2300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/5/2006

Site Id:	363543
Affiliation Type:	Emergency Contact
Company Name:	FREDERICK KIRSCHBAUM
Contact Type:	Not reported
Contact Name:	GEORGE KIRSCHBAUM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 682-8858
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/5/2006

Site Id:	363543
Affiliation Type:	On-Site Operator
Company Name:	NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR
Contact Type:	Not reported
Contact Name:	FREDERICK KIRSCHBAUM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-2300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/5/2006

Equipment Records:

H05 - Tank Leak Detection - In-Tank System (ATG)
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None

NEWTOWN USED AUTO PARTS/SCRAP METAL PROCESSOR (Continued) **A100295268**

J01 - Dispenser - Submersible
E00 - Piping Secondary Containment - None
I01 - Overfill - Float Vent Valve

Tank Info:

Tank Number:	1
Tank Id:	211521
Tank Location:	3
Tank Type:	Plastic
Tank Status:	Closed - Removed
Tank Model:	205
Pipe Model:	Not reported
Install Date:	7/1/2005
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/1/2010
Register:	True
Modified By:	NRLOMBAR
Last Modified:	3/4/2011

J381 **GRAND PETROLEUM, LLC** **UST** **U000410022**
South **1049 GRAND STREET** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.122 mi.
642 ft. **Site 7 of 10 in cluster J**

Relative:
Higher

Actual:
14 ft.

UST:

Facility Id:	2-456969
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2013/10/21
UTM X:	590141.09501000005
UTM Y:	4507505.9957299996

Affiliation Records:

Site Id:	20169
Affiliation Type:	Owner
Company Name:	ATLANTIS MANAGEMENT GROUP II, LLC
Contact Type:	OWNER'S AUTHORIZED AGENT
Contact Name:	ADRIANNE RUTHERFORD
Address1:	555 S. COLUMBUS AVE., SUITE 201
Address2:	Not reported
City:	MOUNT VERNON
State:	NY
Zip Code:	10550
Country Code:	001
Phone:	(914) 699-9500
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	1/5/2009

Site Id: 20169

GRAND PETROLEUM, LLC (Continued) **U000410022**

Affiliation Type:	On-Site Operator
Company Name:	GRAND PETROLEUM, LLC
Contact Type:	Not reported
Contact Name:	STATION MANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-1549
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	1/5/2009

Site Id:	20169
Affiliation Type:	Emergency Contact
Company Name:	ATLANTIS MANAGEMENT GROUP II, LLC
Contact Type:	Not reported
Contact Name:	ENVIRONMENTAL HELPDESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(800) 997-7725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	7/8/2009

Site Id:	20169
Affiliation Type:	Mail Contact
Company Name:	GILBARCO VEEDER-ROOT CMS
Contact Type:	Not reported
Contact Name:	COMPLIANCE MANAGEMENT SERVICES
Address1:	7300 W. FRIENDLY AVE., MS-F76
Address2:	PO BOX 22087
City:	GREENSBORO
State:	NC
Zip Code:	27420
Country Code:	001
Phone:	(800) 253-8054
Phone Ext:	Not reported
Email:	ATLANTIS@GILBARCO.COM
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	1/5/2009

Equipment Records:

A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None

GRAND PETROLEUM, LLC (Continued) **U000410022**

D02 - Pipe Type - Galvanized Steel
B01 - Tank External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
I02 - Overfill - High Level Alarm
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
K01 - Spill Prevention - Catch Basin
D02 - Pipe Type - Galvanized Steel
B01 - Tank External Protection - Painted/Asphalt Coating
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
G04 - Tank Secondary Containment - Double-Walled (Underground)
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
B01 - Tank External Protection - Painted/Asphalt Coating
F04 - Pipe External Protection - Fiberglass
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
J01 - Dispenser - Submersible
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
B04 - Tank External Protection - Fiberglass
F00 - Pipe External Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
G00 - Tank Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
G00 - Tank Secondary Containment - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I00 - Overfill - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
I00 - Overfill - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None

GRAND PETROLEUM, LLC (Continued) **U000410022**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
K01 - Spill Prevention - Catch Basin
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
I03 - Overfill - Automatic Shut-Off
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
G04 - Tank Secondary Containment - Double-Walled (Underground)
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J01 - Dispenser - Submersible
I00 - Overfill - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
F03 - Pipe External Protection - Original Impressed Current
I03 - Overfill - Automatic Shut-Off
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
G04 - Tank Secondary Containment - Double-Walled (Underground)
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass

GRAND PETROLEUM, LLC (Continued) **U000410022**

C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
H00 - Tank Leak Detection - None
F03 - Pipe External Protection - Original Impressed Current
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Submersible
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
K01 - Spill Prevention - Catch Basin
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
D02 - Pipe Type - Galvanized Steel
C02 - Pipe Location - Underground/On-ground
H05 - Tank Leak Detection - In-Tank System (ATG)
J02 - Dispenser - Suction
J02 - Dispenser - Suction
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground

GRAND PETROLEUM, LLC (Continued) **U000410022**

C02 - Pipe Location - Underground/On-ground
B04 - Tank External Protection - Fiberglass
I00 - Overfill - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
B04 - Tank External Protection - Fiberglass
I00 - Overfill - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
I00 - Overfill - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
G00 - Tank Secondary Containment - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
B01 - Tank External Protection - Painted/Asphalt Coating
G04 - Tank Secondary Containment - Double-Walled (Underground)
F04 - Pipe External Protection - Fiberglass
B04 - Tank External Protection - Fiberglass
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D02 - Pipe Type - Galvanized Steel
B01 - Tank External Protection - Painted/Asphalt Coating
J01 - Dispenser - Submersible
K01 - Spill Prevention - Catch Basin
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
I03 - Overfill - Automatic Shut-Off
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current

Tank Info:

Site ID:	20169
Tank Number:	001
Tank ID:	172965
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	6000
Tightness Test Method:	NN

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	cgfreedm
Last Modified:	5/11/2004
Site ID:	20169
Tank Number:	001-A
Tank ID:	6812
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	002
Tank ID:	172858
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/2001
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	cgfreedm
Last Modified:	5/11/2004
Site ID:	20169
Tank Number:	002-A
Tank ID:	172859
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	003
Tank ID:	172869
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/2001
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	cgfreedm
Last Modified:	5/11/2004
Site ID:	20169
Tank Number:	003-A
Tank ID:	172870
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	004
Tank ID:	36753
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	005
Tank ID:	36754
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	006
Tank ID:	36755
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	007
Tank ID:	36756
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	008
Tank ID:	36757
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	009
Tank ID:	36758
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	010
Tank ID:	36759
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	011
Tank ID:	36760
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	012
Tank ID:	36761
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	013
Tank ID:	36762
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	014
Tank ID:	36763
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	015
Tank ID:	36764
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	016
Tank ID:	36765
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	017
Tank ID:	36766
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	018
Tank ID:	36767
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	7/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	1
Tank ID:	172948
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/2003
Capacity Gallons:	12000
Tightness Test Method:	14

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	1/27/2004
Register:	True
Modified By:	dxliving
Last Modified:	1/5/2009
Site ID:	20169
Tank Number:	1-A
Tank ID:	172950
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/2002
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/2002
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	2
Tank ID:	172951
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/2003
Capacity Gallons:	12000
Tightness Test Method:	14
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	1/27/2004
Register:	True
Modified By:	dxliving
Last Modified:	1/5/2009
Site ID:	20169
Tank Number:	2-A
Tank ID:	172961
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/2002
Capacity Gallons:	6000
Tightness Test Method:	NN

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	1/1/2002
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	3
Tank ID:	172962
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/2003
Capacity Gallons:	12000
Tightness Test Method:	14
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	1/27/2004
Register:	True
Modified By:	dxliving
Last Modified:	1/5/2009
Site ID:	20169
Tank Number:	3-A
Tank ID:	172964
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/2002
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	1/1/2002
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	20169
Tank Number:	4
Tank ID:	63600
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/2002
Capacity Gallons:	10000
Tightness Test Method:	NN

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date:	Not reported
Date Tank Closed:	3/1/2002
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	KAKyer
Last Modified:	4/7/2004

HIST UST:

PBS Number:	2-456969
SPDES Number:	Not reported
Emergency Contact:	ROBERTO PORCELLI
Emergency Telephone:	(718) 782-4200
Operator:	GASETERIA OIL CORP
Operator Telephone:	(718) 384-0200
Owner Name:	GRAND MORGAN REALTY CORP
Owner Address:	762 WYTHE AVENUE
Owner City,St,Zip:	BKOOKLYN, NY 11211
Owner Telephone:	(718) 782-4200
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	GASETERIA OIL CORP.
Mailing Address:	364 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	ROBERTO PORCELLI
Mailing Telephone:	(718) 782-4200
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	1049 GRAND ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	03/02/2001
Expiration Date:	12/06/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	18000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19990701
Capacity (gals):	6000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Impressed Current
Second Containment:	Vault (w/access)
Leak Detection:	10
Overfill Prot:	Catch Basin, Automatic Shut-Off
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service

GRAND PETROLEUM, LLC (Continued) **U000410022**

Install Date:	20010201
Capacity (gals):	6000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Impressed Current
Second Containment:	Vault (w/access)
Leak Detection:	14
Overfill Prot:	Catch Basin, Automatic Shut-Off
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	20010201
Capacity (gals):	6000
Product Stored:	DIESEL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Impressed Current
Second Containment:	Vault (w/access)
Leak Detection:	14
Overfill Prot:	Catch Basin, Automatic Shut-Off
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating

GRAND PETROLEUM, LLC (Continued) **U000410022**

Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None

GRAND PETROLEUM, LLC (Continued) **U000410022**

Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 03/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 009
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 03/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 010
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 03/01/1993

GRAND PETROLEUM, LLC (Continued) **U000410022**

Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 011
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 03/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 012
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 03/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999

GRAND PETROLEUM, LLC (Continued) **U000410022**

Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	013
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	014
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	03/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True

GRAND PETROLEUM, LLC (Continued) **U000410022**

Lat/long: Not reported

Tank Id: 015
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 016
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 07/01/1999
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

GRAND PETROLEUM, LLC (Continued) **U000410022**

Tank Id:	017
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	018
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	07/01/1999
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

J382 **GASETERIA OIL CORP.** **NY Spills** **S104649400**
South **1049 GRAND STREET** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.122 mi.
642 ft. **Site 8 of 10 in cluster J**

Relative:
Higher

Actual:
14 ft.

NY Spills:

Site ID:	262417
Facility Addr2:	Not reported
Facility ID:	9904871
Spill Number:	9904871
Facility Type:	ER
SWIS:	2401
Investigator:	aaobliga
Referred To:	Not reported
Spill Date:	7/23/1999
Reported to Dept:	7/23/1999
CID:	351
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	1/17/2006
Remediation Phase:	0
Date Entered In Computer:	7/23/1999
Spill Record Last Update:	1/17/2006
Spiller Name:	ROBERTO PORCELLI
Spiller Company:	GASETERIA
Spiller Address:	364 MASPETH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller Company:	001
Contact Name:	ROBERTO PORCELLI
Contact Phone:	(718) 782-4200
DEC Region:	2
DER Facility ID:	214231
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT" 8/11/2003-Vought-File Review by Vought: Phase I ESA-UST Closure Report-Oct 1999-Closure of sixteen (550-gallon) gasoline and diesel USTs. Soil analyticals show concentrations up to 7150ppb ethylbenzene(TH3) and 788ppb MTBE(TH-10). Groundwater analyticals show concentrations up to 80ppb benzene(GP3), 293ppb ethylbenzene(GP3) and 167ppb MTBE(GP3). NYSDEC letter-11/5/99-Letter sent to Gaseteria requiring delineation of petroleum on and off-site before 12/10/99 and proper disposal of stockpiled contaminated soil stored on-site before 12/31/99. Letter to NYSDEC-12/22/99-Environmental Field Services-letter stating that Environmental Field Services has been retained by gaseteria for consulting services. EFS is reviewing data and will submit a complete remediation plan. Received disposal manifests from stockpiled soil on-Site. UST Closure Report-April 2002-Berninger Environmental (631-588-2251). Sixteen (550-gallon) gasoline USTs removed in 1999. Removal of two (6000-gallon) gasoline USTs and one (6000-gallon)

GASETERIA OIL CORP. (Continued) **S104649400**

diesel UST. No "significant" corrosion or holes were found in tanks. Groundwater exposed at bottom of excavation. Soil analyitcals show concentrations up to 19900ppb 1,2,4-trimethylbenzene, 2930ppb chrysene and 1850 benzo(a)anthracene. Groundwater analyticals show concentrations up to 24.5ppb benzene, 157ppb ethylbenzene, 368ppb xylene and 447ppb napthalene. Groundwater at a depth of 8' below grade. The English Kills are located 600 feet to the east. Baseline Acquisition Assessment Report-Oct 2002-Delta Environmental-PBS database indicates removal of fourteen (550-gallon) gasoline USTs and four (550-gallon) diesel USTs. Delta recommends installation of permanent monitoring wells. Six soil borings were performed, ten soil samples and four groundwater samples were analyzed. Surrounding area is "light industrial". School is 1500' west of site. Groundwater flow to the southeast and ranges from depths of 5' to 14" bgs. Soil boring analyticals show up to 433ppb benzene(SB6), 2100ppb toluene(SB5)and 11600ppb ethylbenzene(SB1) and 54100ppb napthalene(SB1). Groundwater analyticals show up to 8040ppb MTBE(SB5). 8/29/2003-Vought-NYSDEC sent letter requiring: 1)installation of borings/wells at former tank location, across Vandervoort Avenue and Grand Street and at boring location B-3 in Phase I-Report (see Oct 1999) 2)EPA Method 8260/8270 on groundwater samples and 3)well purging to continue until parameter stabilization. 12/30/2003-Vought-Spoke with Steve Muller and investigation plan will not arrive as per CAP schedule due to ongoing construction at site. Steve will wait until construction is complete until plan is submitted which will be by 2/2/03.
1/6/05-Vought-Reveiwed Subusurface Investigation Workplan (Applied Geosolutions) dated July 2004 and received on 7/28/04. North of the site is a deli, iron works and self storage. West of the site is a warehouse. South of the site is a junkyard and warehouse. East is a vacant lot and bar. Groundwater flow likely to the southeast. Between 10/03 and 1/04 2977.25 tons of soil were removed from the site during raze and rebuild activities. Proposal for the installation of five Geoprobe wells. "Wtihin 30 days from the approval of this Subsurface Investigation Work Plan Applied Geosolutions will begin performing Task 1-Groundwater Monitoring Well Installation". "Applied Geosolutions will prepare and submit a final report to Gaseteria and NYSDEC within 60 days after the completion of all work associated with the approved Work Plan...". Vought sent letter approving of workplan and requesting notification upon scheduling of an investigation date. 5/23/05-Vought-Reviewed Final Subsurface Investigation Report (ASR Muller) dated 3/25/05 and received on 3/25/05. "Based on the information presented in this report, AGS respectfully requests that no further subsurface investigation or remedial activities be performed at the subject site". Groundwater between 5-7' below grade and flow to the southeast. Installation of three monitoring wells. Groundwater analyticals show 2ppb benzene(MW1), 14ppb MTBE(MW1), 46ppb isopropylbenzene(MW1), 110ppb n-propylbenzene(MW1), 16ppb MTBE(MW2), 70ppb MTBE(MW3). DEC sent letter denying no further action and requiring wells be installed at locations on 1/6/05 Workplan. FILE TRANSFERRED FROM VOUGHT TO OBLIGADO 10/20/05- Obligado - Review Baseline aquisition Assessment Report prepared by Delta, submitted on 6/17/05. 1 550 gallon fuel oil tank was discovered during excavation for new tank field. Delta took one soil sample FO-1, only one SVOC exceedence for Chrysene at 1,220 ppb. Also 1.5 ppb cadmium and 8.8 ppb mercury. Also 4 samples collected from new tank field. No impacts detected. 11/3/05 - Obligado - Sent email to Tomasello asking when additional monitoring

GASETERIA OIL CORP. (Continued) **S104649400**

well will be installed. 11/14/05 - Obligado - Site visit with ASR tomasello. Agree to take one Geoprobe ground water sample downgradient from former tankfield. 1/6/05 - Obligado - Received call from S.Muller. They installed a geoprobe well at Grand Street downgradient of the tankfield and took a ground water sample and results showed ND for BTEX and 14 ppb for MTBE. Told him to send a NFA request inorder to close out spill. 1/17/05 - Obligado - Received closure request from ASR Steve Muller. Ground water results show: ND for BTEX in all 4 wells, max MTBE is 38 ppb in MW3. NFA granted based on non detect BTEX for 2 consecutive quarters, MTBE concentrations decreasing in MW3 from 70 ppb in 3/05, down to 38 in 12/05.

Remarks: SITE IS A VACANT GAS STATION - CALLERS COMPANY ON SITE DOING WORK ON TANKS - DEC ALSO ON SITE

Material:

Site ID:	262417
Operable Unit ID:	1083549
Operable Unit:	01
Material ID:	301193
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9904871
Investigator:	ROMMEL
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/23/1999 16:00
Reported to Dept Date/Time:	07/23/99 18:20
SWIS:	61
Spiller Name:	Not reported
Spiller Contact:	Not reported

GASETERIA OIL CORP. (Continued) **S104649400**

Spiller Phone: Not reported
Spiller Contact: MANUG AYDAN
Spiller Phone: (718) 782-4200
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/23/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/26/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 15
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 15
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: SITE IS A VACANT GAS STATION - CALLERS COMPANY ON SITE DOING WORK ON TANKS - DEC ALSO ON SITE

J383 **NY Spills** **S104649418**
South **1049 GRAND STREET** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.122 mi.
642 ft. **Site 9 of 10 in cluster J**

Relative:
Higher

Actual:
14 ft.

NY Spills:

Site ID:	313643
Facility Addr2:	Not reported
Facility ID:	9905126
Spill Number:	9905126
Facility Type:	ER
SWIS:	2401
Investigator:	JMROMMEL
Referred To:	Not reported
Spill Date:	7/29/1999
Reported to Dept:	7/29/1999
CID:	211
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	True
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/11/2003
Remediation Phase:	0
Date Entered In Computer:	7/29/1999
Spill Record Last Update:	8/11/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CHRIS HAAS
Contact Phone:	(718) 595-4784
DEC Region:	2
DER Facility ID:	214231
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL" 8/11/2003-Vought-See spill #9904871 at same location. This spill closed by Vought.
Remarks:	CALLER HAS INFORMATION THAT A TANK IS BEING REMOVED ON SITE AND THERE IS SOIL CONTAMINATION - CALLER IS ENROUTE TO SITE TO INVESTIGATE

Material:

Site ID:	313643
Operable Unit ID:	1079563
Operable Unit:	01
Material ID:	301441
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No

(Continued) **S104649418**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9905126
Investigator: ROMMEL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 07/29/1999 10:00
Reported to Dept Date/Time: 07/29/99 10:51
SWIS: 61
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: ( ) -
Spiller Contact: CHRIS HAAS
Spiller Phone: (718) 595-4784
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/29/99

(Continued) **S104649418**

Date Spill Entered In Computer Data File: Not reported
Update Date: 07/30/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: CALLER HAS INFORMATION THAT A TANK IS BEING REMOVED ON SITE AND THERE IS SOIL CONTAMINATION - CALLER IS ENROUTE TO SITE TO INVESTIGATE

J384 **B P PRODUCTS NORTH AMERICA INC #48359** **RCRA-NonGen** **1007571102**
South **1049 GRAND ST** **MANIFEST** **NYR000126615**
< 1/8 **BROOKLYN, NY 11211** **MANIFEST**
0.122 mi.
642 ft. **Site 10 of 10 in cluster J**

Relative:
Higher

Actual:
14 ft.

RCRA-NonGen:
Date form received by agency: 07/09/2009
Facility name: B P PRODUCTS NORTH AMERICA INC #48359
Facility address: 1049 GRAND ST
BROOKLYN, NY 11211
EPA ID: NYR000126615
Mailing address: PO BOX 6038
ARTESIA, NY 907026038
Contact: PAULA SKRYJA
Contact address: PO BOX 6038
ARTESIA, NY 907026038
Contact country: US
Contact telephone: (410) 551-6074
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NO NAME FOUND
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/01/2004
Owner/Op end date: Not reported

Owner/operator name: NO NAME FOUND
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/01/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2007
Facility name: B P PRODUCTS NORTH AMERICA INC #48359
Classification: Small Quantity Generator

Date form received by agency: 01/01/2006
Facility name: B P PRODUCTS NORTH AMERICA INC #48359
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/29/2004
Facility name: B P PRODUCTS NORTH AMERICA INC #48359
Classification: Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000126615
Country: USA
Mailing Name: AMOCO 48359
Mailing Contact: FRANK LOBELLO
Mailing Address: PO BOX 80249
Mailing Address 2: Not reported
Mailing City: RANCHO SANTA MARGARITA
Mailing State: CA
Mailing Zip: 92688

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	949-460-5200

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	6/14/2007
Trans1 Recv Date:	6/14/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	6/14/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	001274597JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NJA5008728
Manifest Status:	Not reported
Trans1 State ID:	S6247
Trans2 State ID:	Not reported
Generator Ship Date:	12/05/2004
Trans1 Recv Date:	12/05/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/06/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	NJR000023036
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00200

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	04

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	2008-02-06
Trans1 Recv Date:	2008-02-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-02-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	001274608JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H040

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	2008-02-06
Trans1 Recv Date:	2008-02-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-02-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	001274608JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H040

Document ID:	NJA5246585
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	06/19/2006
Trans1 Recv Date:	06/19/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	S6240
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	06

Document ID:	NJA5246518
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	02/09/2006
Trans1 Recv Date:	02/09/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/09/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Generator EPA ID:	NYR000126615
Trans1 EPA ID:	562487
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	06

Document ID:	06
Manifest Status:	001274546JJK
Trans1 State ID:	NYR000126615
Trans2 State ID:	Not reported
Generator Ship Date:	NJD991291105
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	NJR000023036
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	2
Number of Containers:	DM
Container Type:	200
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NJA5246518
Trans1 State ID:	NYR000126615
Trans2 State ID:	Not reported
Generator Ship Date:	NJD991291105
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	NJR000023036
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	200
Handling Method:	P
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	NJA5246585
Trans1 State ID:	NYR000126615
Trans2 State ID:	Not reported
Generator Ship Date:	NJD991291105
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	NJR000023036
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	200
Handling Method:	P
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	07
Manifest Status:	001274597JJK
Trans1 State ID:	NYR000126615
Trans2 State ID:	Not reported
Generator Ship Date:	NJD991291105
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	NJR000023036

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	Y
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	200
Handling Method:	P
Specific Gravity:	1
Waste Code:	B
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	2008-10-23
Trans1 Recv Date:	2008-10-23
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-10-23
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	001274847JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJR000023036
Trans2 State ID: Not reported
Generator Ship Date: 2008-02-06
Trans1 Recv Date: 2008-02-06
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-02-06
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000126615
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 200.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 08
Manifest Tracking Num: 001274608JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H040

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJR000023036
Trans2 State ID: Not reported
Generator Ship Date: 2007-06-14
Trans1 Recv Date: 2007-06-14
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2007-06-14
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000126615
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 200.0
Units: P - Pounds
Number of Containers: 1.0

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	07
Manifest Tracking Num:	001274597JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NJA5246518
Manifest Status:	Not reported
Trans1 State ID:	NJR000023036
Trans2 State ID:	Not reported
Generator Ship Date:	02/09/2006
Trans1 Recv Date:	02/09/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/09/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000126615
Trans1 EPA ID:	562487
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	06

NJ MANIFEST:

Manifest Code:	001274847JJK
EPA ID:	NYR000126615
Date Shipped:	10/23/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/23/2008
Date Trans2 Transported Waste:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/23/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D018
Manifest Year:	2008 New Jersey Manifest Data
Quantity:	200
Unit:	P
Hand Code:	H141

Manifest Code:	001274597JJK
EPA ID:	NYR000126615
Date Shipped:	6/14/200
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	6/14/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	6/14/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D018
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	200
Unit:	P

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Hand Code: H14

Manifest Code:	NJA5008728
EPA ID:	NYR000126615
Date Shipped:	20041205
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	041205
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	041206
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02030521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	001274608JJK
EPA ID:	NYR000126615
Date Shipped:	2/6/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	2/6/2008
Date Trans2 Transported Waste:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	2/6/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D018
Manifest Year:	2008 New Jersey Manifest Data
Quantity:	200
Unit:	P
Hand Code:	H040

Manifest Code:	NJA5246585
EPA ID:	NYR000126615
Date Shipped:	20060619
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	060619
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	060619
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	08070622
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported

B P PRODUCTS NORTH AMERICA INC #48359 (Continued) **1007571102**

Hand Code: Not reported

Manifest Code:	NJA5246518
EPA ID:	NYR000126615
Date Shipped:	20060209
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000023036
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	060209
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	060209
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	04040621
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

O385 **BUG, VARICK GATE STATION** **HSWDS** **S108147018**
NNW **438 VARICK AVENUE** **N/A**
< 1/8 **BROOKLYN, NY 11222**
0.122 mi.
645 ft. **Site 1 of 12 in cluster O**

Relative:
Higher

Actual:
19 ft.

HSWDS:

Facility ID:	Not reported
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	Brooklyn Union Gas Company
Owner Address:	195 Montague Street
Owner Phone:	(718)403-0533
Operator Type:	Unknown
Operator:	Unknown

BUG, VARICK GATE STATION (Continued) **S108147018**

Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532261
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 05 N
Longitude:	73 56 05 W
Acres:	0.00
Operator Date:	1981
Close Date:	Unknown
Completed:	PA
Active:	Unknown
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Unknown
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported

BUG, VARICK GATE STATION (Continued) **S108147018**

Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

O386 **BKLYN UNION GAS/VARICK GATE STATION** **CERC-NFRAP** **1003863869**
NNW **438 VARICK AVE** **NYD980532261**
< 1/8 **BROOKLYN, NY 11222**
0.122 mi.
645 ft. **Site 2 of 12 in cluster O**

Relative:
Higher

Actual:
19 ft.

CERC-NFRAP:

Site ID:	0202000
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	06/01/1981
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	09/24/1986
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	09/05/1986
Date Completed:	09/24/1986
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

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N387 **1213 GRAND STREET** **NY Spills** **S103568883**
SE **1213 GRAND STREET** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
653 ft. **Site 7 of 9 in cluster N**

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	97266
Facility Addr2:	Not reported
Facility ID:	9512436
Spill Number:	9512436

1213 GRAND STREET (Continued) **S103568883**

Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	1/4/1995
Reported to Dept:	1/5/1996
CID:	216
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/15/2002
Remediation Phase:	0
Date Entered In Computer:	1/5/1996
Spill Record Last Update:	5/15/2002
Spiller Name:	ROMEO SANTOS
Spiller Company:	GING TRUCK LEASEING CORP
Spiller Address:	1213 GRAND STREET
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller Company:	001
Contact Name:	JOE DEMARCO
Contact Phone:	(718) 497-2407
DEC Region:	2
DER Facility ID:	86699
DEC Memo:	Not reported
Remarks:	CALLER TOOK SOIL SAMPLES FOUND SOME CONTAMINATION AT ABOVE BUSSINESS AND THE SAMPLES ARE BEING SENT OUT FOR TESTING

Material:

Site ID:	97266
Operable Unit ID:	1026657
Operable Unit:	01
Material ID:	356180
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported

1213 GRAND STREET (Continued) **S103568883**

Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9512436
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 01/04/1995 17:30
Reported to Dept Date/Time: 01/05/96 11:30
SWIS: 61
Spiller Name: GING TRUCK LEASEING CORP
Spiller Contact: ROMEO SANTOS
Spiller Phone: (718) 497-2407
Spiller Contact: JOE DEMARCO
Spiller Phone: (718) 497-2407
Spiller Address: 1213 GRAND STREET
Spiller City,St,Zip: BROOKLYN, NY 11211-
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/05/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/22/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

1213 GRAND STREET (Continued) **S103568883**

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: CALLER TOOK SOIL SAMPLES FOUND SOME CONTAMINATION AT ABOVE BUSSINESS AND THE SAMPLES ARE BEING SENT OUT FOR TESTING

N388 **UB DISTRIBUTORS** **LTANKS S103479685**
SE **1213 GRAND ST** **HIST LTANKS N/A**
< 1/8 **BROOKLYN, NY**
0.124 mi.
653 ft. **Site 8 of 9 in cluster N**

Relative:
Lower

Actual:
8 ft.

LTANKS:
Site ID: 290514
Spill No: 9807882
Spill Date: 9/28/1998
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 5/15/2002
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 9/28/1998
CID: 211
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 9/28/1998
Spill Record Last Update: 5/15/2002
Spiller Name: STEVE BRAUN
Spiller Company: UB DISTRIBUTORS
Spiller Address: 1213 GRAND ST
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: STEVE BRAUN
Spiller Phone: (718) 444-3400
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 86699

UB DISTRIBUTORS (Continued) **S103479685**

Remarks: during tank closure caller found soil contamination by top of tank cause appears to be overfill

Material:

Site ID:	290514
Operable Unit ID:	1065455
Operable Unit:	01
Material ID:	315423
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	290514
Operable Unit ID:	1065455
Operable Unit:	01
Material ID:	315422
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9807882
Spill Date:	09/28/1998
Spill Time:	14:00
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt:	/ /

UB DISTRIBUTORS (Continued) **S103479685**

Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: TOMASELLO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 09/28/98
Reported to Department Time: 14:43
SWIS: 61
Spiller Contact: STEVE BRAUN
Spiller Phone: (718) 444-3400
Spiller Extention: Not reported
Spiller Name: UB DISTRIBUTORS
Spiller Address: 1213 GRAND ST
Spiller City,St,Zip: BROOKLYN, NY
Spiller Cleanup Date: / /
Facility Contact: STEVE BRAUN
Facility Phone: (718) 444-3400
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 09/28/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 09/29/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported

UB DISTRIBUTORS (Continued) **S103479685**

Last Date:	19940728
Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	True
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	Not reported
Spill Cause:	during tank closure caller found soil contamination by top of tank cause appears to be overfill

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N389 **UNION BEER DIST. L.L.C.** **UST** **U000408173**
SE **1213-17 GRAND ST** **HIST UST** **N/A**
< 1/8 **BROOKLYN, NY 11211**
0.124 mi.
653 ft. **Site 9 of 9 in cluster N**

Relative:
Lower

Actual:
8 ft.

UST:

Facility Id:	2-010863
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590613.32311999996
UTM Y:	4507664.8800799996

Affiliation Records:

Site Id:	92
Affiliation Type:	Owner
Company Name:	UB DISTRIBUTOR L.L.C.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1213 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 497-2407
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	92
Affiliation Type:	Mail Contact
Company Name:	UB DISTRIBUTORS L.L.C.
Contact Type:	Not reported
Contact Name:	WAREHOUSE OPERTATIONS MGR
Address1:	1213-17 GRAND STREET
Address2:	Not reported

UNION BEER DIST. L.L.C. (Continued) **U000408173**

City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 497-2407
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	92
Affiliation Type:	On-Site Operator
Company Name:	UNION BEER DIST. L.L.C.
Contact Type:	Not reported
Contact Name:	MICHAEL BROPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-2407
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	92
Affiliation Type:	Emergency Contact
Company Name:	UB DISTRIBUTOR L.L.C.
Contact Type:	Not reported
Contact Name:	MICHAEL BROPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 389-5059
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G99 - Tank Secondary Containment - Other
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None

UNION BEER DIST. L.L.C. (Continued) **U000408173**

B00 - Tank External Protection - None
G99 - Tank Secondary Containment - Other
G99 - Tank Secondary Containment - Other
I00 - Overfill - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
G99 - Tank Secondary Containment - Other
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
I00 - Overfill - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
G99 - Tank Secondary Containment - Other
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
I00 - Overfill - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
G99 - Tank Secondary Containment - Other
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

UNION BEER DIST. L.L.C. (Continued) **U000408173**

C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
G99 - Tank Secondary Containment - Other
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
J02 - Dispenser - Suction
B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	92
Tank Number:	001
Tank ID:	30375
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	4000
Tightness Test Method:	10
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	5/1/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	002
Tank ID:	30376
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	4000
Tightness Test Method:	10
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	5/1/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	003

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank ID:	30377
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	4000
Tightness Test Method:	10
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	5/1/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	004
Tank ID:	30378
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	005
Tank ID:	30379
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	006

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank ID:	30380
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	007
Tank ID:	30381
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	008
Tank ID:	30382
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	92
Tank Number:	009

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank ID:	30383
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-010863
SPDES Number:	Not reported
Emergency Contact:	MICHAEL BROPHY
Emergency Telephone:	(718) 389-5059
Operator:	MICHAEL BROPHY
Operator Telephone:	(718) 497-2407
Owner Name:	UB DISTRIBUTOR L.L.C.
Owner Address:	1213 GRAND STREET
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Telephone:	(718) 497-2407
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	UB DISTRIBUTORS L.L.C.
Mailing Address:	1213-17 GRAND STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	WAREHOUSE OPERTATIONS MGR
Mailing Telephone:	(718) 497-2407
Owner Mark:	Second Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1213 GRAND STREET
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/06/1997
Expiration Date:	10/03/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False

UNION BEER DIST. L.L.C. (Continued) **U000408173**

CBS Number: Not reported
Town or City: NEW YORK CITY
County Code: 61
Town or City: 01
Region: 2

Tank Id: 001
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 4000
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Other
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 05/01/1996
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: AES System II
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 002
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Other
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 05/01/1996
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: AES System II
Deleted: False
Updated: True

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Lat/long: Not reported

Tank Id: 003
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Other
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 05/01/1996
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: AES System II
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 004
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: Not reported
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Other
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE

UNION BEER DIST. L.L.C. (Continued) **U000408173**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

L390 **46-25 METROPOLITAN AVE** **HIST LTANKS** **S102671916**
SSE **46025 METROPOLITAN AVE** **NY Spills** **N/A**
< 1/8 **RIDGEWOOD, NY**
0.124 mi.
655 ft. **Site 6 of 13 in cluster L**

Relative:
Lower

Actual:
9 ft.

HIST LTANKS:

Region of Spill:	2
Spill Number:	9204008
Spill Date:	07/07/1992
Spill Time:	13:30
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	TIBBE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/07/92
Reported to Department Time:	13:40
SWIS:	63
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported

46-25 METROPOLITAN AVE (Continued) **S102671916**

Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 07/08/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/03/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: CONTAM SOIL DISCOVERED DURING EXCAVATION. WILL STOCKPILE, TEST, DISPOSE.

NY Spills:
Site ID: 84865
Facility Addr2: Not reported
Facility ID: 9204008
Spill Number: 9204008
Facility Type: ER
SWIS: 4101
Investigator: JMOCONNE
Referred To: Not reported
Spill Date: 7/7/1992
Reported to Dept: 7/7/1992
CID: Not reported
Spill Cause: Other
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other

46-25 METROPOLITAN AVE (Continued) **S102671916**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	7/8/1992
Spill Record Last Update:	4/4/2008
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	78016
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL" 4/12/04-Vought-Spill transferred from Tibbe to Rommel as per Rommel 12/29/05 Transferred to E. Hampston via Spill Initative. Called listed owner via PBS information (J. Brown 718-243-4581) no pickup, no voice mail. Will forward letter requesting information. 11/02/06 Reassigned to Sun.(JS/MS) 2/13/07: Original contact number on PBS is for former location (on Jay Street) of MTA facility. Contact made with representative at 646.252.5777. Rachel Kron who is in charge of MTA spills will get back to me (MS) upon obtaining associated documents. (JS/MS) 5/15/07: As per R. Kron, MTA meets with DEC monthly and this site will be brought up at next meeting. She will contact me with update after meeting. See M.Tibbe. (JS/MS) 8/2/07: DEC still has not heard from MTA. Will contact Mrs. Kron again and issue a letter if necessary. (JS/MS) 12/3/07: Site should be brought up at next MTE/DEC meeting. (JS/MS) 04-04-08: Transferred to Tibbe. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell
Remarks:	CONTAM SOIL DISCOVERED DURING EXCAVATION. WILL STOCKPILE, TEST, & DISPOSE.

Material:

Site ID:	84865
Operable Unit ID:	971401
Operable Unit:	01
Material ID:	411771
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported

46-25 METROPOLITAN AVE (Continued) **S102671916**

Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

L391 **MANHOLE #15350** **NY Spills** **S104194307**
SSE **VARICK AVE & METROPOLITAN** **NY Hist Spills** **N/A**
< 1/8 **BROOKLYN, NY**
0.125 mi.
659 ft. **Site 7 of 13 in cluster L**

Relative:
Lower

Actual:
8 ft.

NY Spills:

Site ID:	64194
Facility Addr2:	Not reported
Facility ID:	9906203
Spill Number:	9906203
Facility Type:	ER
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Spill Date:	8/24/1999
Reported to Dept:	8/24/1999
CID:	252
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/10/1999
Remediation Phase:	0
Date Entered In Computer:	8/24/1999
Spill Record Last Update:	6/1/2000
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	MARK SCHLAGEL
Contact Phone:	(212) 580-6763
DEC Region:	2
DER Facility ID:	61901
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL" Con ed e2mis notes: 3 quarts of unknown oil on 1200 gallons of water in MH15350. Took 1 sample. lsn #99-08879 <1ppm. <1.0 ppm clean up complete and tag removed. Incident is closed.
Remarks:	NO WATER WAYS OR SEWERS AFFECTED-SAMPLE TAKEN-CLEAN UP PENDING RESULTS-CON ED #127390

MANHOLE #15350 (Continued) **S104194307**

Material:

Site ID:	64194
Operable Unit ID:	1084645
Operable Unit:	01
Material ID:	302471
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	9906203
Investigator:	O'CONNELL
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/24/1999 16:00
Reported to Dept Date/Time:	08/24/99 17:00
SWIS:	61
Spiller Name:	UNK
Spiller Contact:	UNK
Spiller Phone:	(000) 000-0000
Spiller Contact:	MARK SCHLAGEL
Spiller Phone:	(212) 580-6763
Spiller Address:	UNK
Spiller City,St,Zip:	UNK, NY
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False

MANHOLE #15350 (Continued) **S104194307**

Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/10/99
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/24/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/01/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Con ed e2mis notes: 3 quarts of unknown oil on 1200 gallons of water in MH15350. Took 1 sample. lsn 99-08879 <1ppm. <1.0 ppm clean up complete and tag removed. Incident is closed.
Remark: NO WATER WAYS OR SEWERS AFFECTED-SAMPLE TAKEN-CLEAN UP PENDING RESULTS-CON ED 127390

L392 **ROADWAY** **NY Spills** **S109414366**
SSE **METROPOLITAN AVE & VARICK AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.125 mi.
659 ft. **Site 8 of 13 in cluster L**

Relative:
Lower

Actual:
8 ft.

NY Spills:
Site ID: 408867
Facility Addr2: Not reported
Facility ID: 0811297
Spill Number: 0811297
Facility Type: ER
SWIS: 2401
Investigator: smsanges
Referred To: Not reported
Spill Date: 1/13/2009
Reported to Dept: 1/13/2009

ROADWAY (Continued) **S109414366**

CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	1/14/2009
Remediation Phase:	0
Date Entered In Computer:	1/13/2009
Spill Record Last Update:	1/14/2009
Spiller Name:	ECO NICHOLS
Spiller Company:	SUNOCO GAS
Spiller Address:	METROPOLITAN AVE & VARICK AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ECO NICHOLS
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	358126
DEC Memo:	Sangesland spoke to ECO Nichols. He says a gas station was doing tank work and during his site inspection he saw 1 gal of antifreeze on the pavement.
Remarks:	Caller states a truck was leaking fluid onto the blacktop. Caller was also concerned about the vehicle selling fuel from the roadside. Speedy dry was put down by employees, some product did go into a storm drain.

Material:

Site ID:	408867
Operable Unit ID:	1165377
Operable Unit:	01
Material ID:	2156784
Material Code:	0043A
Material Name:	ANTIFREEZE
Case No.:	Not reported
Material FA:	Other
Quantity:	1
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported

ROADWAY (Continued) **S109414366**

Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

K393 **BUG, EQUITY WORKS** **HSWDS** **S102872851**
WSW **MASPETH AND MORGAN AVENUES** **N/A**
1/8-1/4 **BROOKLYN, NY 11222**
0.125 mi.
662 ft. **Site 6 of 6 in cluster K**

Relative:
Higher

Actual:
18 ft.

HSWDS:

Facility ID:	HS2009
Region:	2
Facility Status:	Unknown
Owner Type:	Publ Utily
Owner:	(formerly) Brooklyn Union Gas
Owner Address:	195 Montague Street
Owner Phone:	(718)403-3053
Operator Type:	Unknown
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD980532048
Registry:	Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	Unknown
RCRA Permitted:	Unknown
Site Code:	Coal Gasification Plant
Owner City State:	Brooklyn
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	40 43 00 N
Longitude:	73 56 15 W
Acres:	0.00
Operator Date:	1896
Close Date:	1928
Completed:	PA
Active:	No
PCB's Disposed:	Unknown
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown

BUG, EQUITY WORKS (Continued) **S102872851**

Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

P394 **ABF FREIGHT SYSTEM, INC.** **UST** **U000417809**
ENE **414 MASPETH AVE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.126 mi.
665 ft. **Site 1 of 6 in cluster P**

Relative:
Higher

Actual:
13 ft.

UST:

Facility Id:	2-015962
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590490.65407000005
UTM Y:	4508048.1382499998

Affiliation Records:

Site Id:	98
Affiliation Type:	Owner
Company Name:	ABF FREIGHT SYSTEM, INC.
Contact Type:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Contact Name:	Not reported
Address1:	PO BOX 10048
Address2:	Not reported
City:	FORT SMITH
State:	AR
Zip Code:	72917
Country Code:	001
Phone:	(501) 785-8639
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	98
Affiliation Type:	Mail Contact
Company Name:	ABF FREIGHT SYSTEM, INC.
Contact Type:	Not reported
Contact Name:	CHRIS BROWN
Address1:	PO BOX 10048
Address2:	Not reported
City:	FORT SMITH
State:	AR
Zip Code:	72917
Country Code:	001
Phone:	(501) 785-8639
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	98
Affiliation Type:	On-Site Operator
Company Name:	ABF FREIGHT SYSTEM, INC.
Contact Type:	Not reported
Contact Name:	HARRY MURPHY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-2461
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	98
Affiliation Type:	Emergency Contact
Company Name:	ABF FREIGHT SYSTEM, INC.
Contact Type:	Not reported
Contact Name:	HARRY MURPHY
Address1:	Not reported
Address2:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-2461
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
F00 - Pipe External Protection - None
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

I00 - Overfill - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
I00 - Overfill - None
I00 - Overfill - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
B00 - Tank External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	98
Tank Number:	001
Tank ID:	26913
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	002
Tank ID:	26914
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	003
Tank ID:	26915
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	004
Tank ID:	26916
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	005
Tank ID:	26917
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	006
Tank ID:	26918
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	007
Tank ID:	26919
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	008
Tank ID:	26920
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	009
Tank ID:	26921
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	98
Tank Number:	010
Tank ID:	26922
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1969
Capacity Gallons:	550
Tightness Test Method:	ZZ
Next Test Date:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Date Tank Closed:	12/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1992
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-015962
SPDES Number:	Not reported
Emergency Contact:	HARRY MURPHY
Emergency Telephone:	(718) 497-2461
Operator:	HARRY MURPHY
Operator Telephone:	(718) 497-2461
Owner Name:	ABF FREIGHT SYSTEM, INC.
Owner Address:	PO BOX 10048
Owner City,St,Zip:	FORT SMITH, AR 72917
Owner Telephone:	(501) 785-8639
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ABF FREIGHT SYSTEM, INC.
Mailing Address:	PO BOX 10048
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FORT SMITH, AR 72917
Mailing Contact:	CHRIS BROWN
Mailing Telephone:	(501) 785-8639
Owner Mark:	Second Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	414 MASPETH AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	03/19/1996
Expiration Date:	03/15/2001
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 07/01/1992
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 12/01/1996
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 008
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19691201
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 07/01/1992
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 12/01/1996
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 009
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19691201
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None

ABF FREIGHT SYSTEM, INC. (Continued) **U000417809**

Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19691201
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	07/01/1992
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

P395 **ABF INC** **MANIFEST** **1009235051**
ENE **414 MASPETH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.126 mi.
665 ft. **Site 2 of 6 in cluster P**

Relative:
Higher

Actual:
13 ft.

NY MANIFEST:

EPA ID:	NYP000955278
Country:	USA
Mailing Name:	ABF INC
Mailing Contact:	N/S
Mailing Address:	414 MASPETH AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	N/S

ABF INC (Continued) **1009235051**

Document ID:	NYG3227868
Manifest Status:	Not reported
Trans1 State ID:	NYR000065169
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2003
Trans1 Recv Date:	07/17/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/17/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP000955278
Trans1 EPA ID:	NYD049178296
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00900
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01000
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00250
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

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396 **1027 METROPOLITAN AVENUE** **AST** **A100291230**
WSW **1027 METROPOLITAN AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.136 mi.
717 ft.

Relative:
Higher

Actual:
16 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608360
Program Type:	PBS
UTM X:	589937.62850999995
UTM Y:	4507611.02434
Expiration Date:	2008/02/25

Affiliation Records:

Site Id:	30212
Affiliation Type:	On-Site Operator
Company Name:	1027 METROPOLITAN AVENUE
Contact Type:	Not reported

1027 METROPOLITAN AVENUE (Continued) **A100291230**

Contact Name:	JOSEPH LANDAU
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 387-4100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30212
Affiliation Type:	Owner
Company Name:	EASTERN FEATHER DOWN CORP.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1027 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 387-4100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30212
Affiliation Type:	Emergency Contact
Company Name:	EASTERN FEATHER DOWN CORP.
Contact Type:	Not reported
Contact Name:	JOSEPH LANDAU
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 387-4100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30212
Affiliation Type:	Mail Contact
Company Name:	UNFLAT & ASSOCIATES
Contact Type:	Not reported
Contact Name:	ULRIC GLOUDON
Address1:	573 JOHNSON AVENUE
Address2:	Not reported

1027 METROPOLITAN AVENUE (Continued) **A100291230**

City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-6100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
G03 - Tank Secondary Containment - Vault (w/o access)
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating

Tank Info:

Tank Number:	001
Tank Id:	65075
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Q397 **ATLANTIC FEATHER & FOAM** **AST** **U003390243**
WSW **330 MORGAN AVE** **HIST AST** **N/A**
1/8-1/4 **BKLYN, NY 11211**
0.137 mi.
724 ft. **Site 1 of 4 in cluster Q**

Relative:
Higher

Actual:
18 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-210412
Program Type:	PBS
UTM X:	589937.58585000003
UTM Y:	4507693.8026900003
Expiration Date:	2012/08/24

ATLANTIC FEATHER & FOAM (Continued) **U003390243**

Affiliation Records:

Site Id:	7612
Affiliation Type:	Owner
Company Name:	MORCAL CORPORATION
Contact Type:	OWNER
Contact Name:	IAN S. RUBENSTEIN
Address1:	330 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 782-4300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	msbaptis
Date Last Modified:	11/23/2007

Site Id:	7612
Affiliation Type:	On-Site Operator
Company Name:	ATLANTIC FEATHER & FOAM
Contact Type:	Not reported
Contact Name:	IAN RUBINSTEIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 782-4300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	7612
Affiliation Type:	Emergency Contact
Company Name:	MORCAL CORPORATION
Contact Type:	Not reported
Contact Name:	IAN RUBINSTEIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 569-6298
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	7612
Affiliation Type:	Mail Contact

ATLANTIC FEATHER & FOAM (Continued) **U003390243**

Company Name:	ATLANTIC FEATHER & FOAM, INC.
Contact Type:	Not reported
Contact Name:	IAN S. RUBINSTEIN
Address1:	330 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 782-4300
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	12/14/2004

Equipment Records:

D02 - Pipe Type - Galvanized Steel
G03 - Tank Secondary Containment - Vault (w/o access)
J02 - Dispenser - Suction
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None

Tank Info:

Tank Number:	001
Tank Id:	18677
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	11/8/2007
Register:	True
Modified By:	msbaptis
Last Modified:	11/23/2007

HIST AST:

PBS Number:	2-210412
SWIS Code:	6101
Operator:	IAN RUBINSTEIN
Facility Phone:	(718) 782-4300
Facility Addr2:	330 MORGAN AVE
Facility Type:	Not reported
Emergency:	IAN RUBINSTEIN
Emergency Tel:	(516) 569-6298
Old PBSNO:	Not reported

ATLANTIC FEATHER & FOAM (Continued) **U003390243**

Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	MORCAL CORPORATION
Owner Address:	330 MORGAN AVENUE
Owner City,St,Zip:	BKLYN, NY 11211
Federal ID:	Not reported
Owner Tel:	(718) 782-4300
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Contact:	IAN S. RUBINSTEIN
Mailing Name:	ATLANTIC FEATHER & FOAM, INC.
Mailing Address:	330 MORGAN AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BKLYN, NY 11211
Mailing Telephone:	(718) 782-4300
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	07/14/1998
Expiration:	08/24/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	9
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing

ATLANTIC FEATHER & FOAM (Continued) **U003390243**

Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
SPDES Number: Not reported
Lat/Long: Not reported

L398 **BUY RITE GARAGE INC** **RCRA-NonGen** **1001818359**
SSE **1188 METROPOLITAN AVE** **FINDS** **NYU005001680**
1/8-1/4 **BROOKLYN, NY 11237**
0.138 mi.
726 ft. **Site 9 of 13 in cluster L**

Relative:
Lower

Actual:
9 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: BUY RITE GARAGE INC
Facility address: 1188 METROPOLITAN AVE
BROOKLYN, NY 11237
EPA ID: NYU005001680
Mailing address: METROPOLITAN AVE
BROOKLYN, NY 11237
Contact: Not reported
Contact address: METROPOLITAN AVE
BROOKLYN, NY 11237
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NON REGULATED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (718) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NON REGULATED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (718) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

BUY RITE GARAGE INC (Continued) **1001818359**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: BUY RITE GARAGE INC
Classification: Not a generator, verified

Date form received by agency: 09/28/1999
Facility name: BUY RITE GARAGE INC
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/10/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110009488465

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when

BUY RITE GARAGE INC (Continued) **1001818359**

complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

L399 **METRO GARAGE INC** **UST** **U003065891**
SSE **1188 METROPOLITAN AVENUE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237** **NY Spills**
0.138 mi.
726 ft. **Site 10 of 13 in cluster L**

Relative:
Lower

Actual:
9 ft.

UST:

Facility Id:	2-602411
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2015/08/17
UTM X:	590468.03382999997
UTM Y:	4507567.07369

Affiliation Records:

Site Id:	24368
Affiliation Type:	Mail Contact
Company Name:	METRO GARAGE
Contact Type:	Not reported
Contact Name:	MR. DENNIS FIRPO
Address1:	1188 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 381-5050
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/21/2010

Site Id:	24368
Affiliation Type:	Emergency Contact
Company Name:	DIECOR REALTY CORP.
Contact Type:	Not reported
Contact Name:	DENNIS FIRPO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

METRO GARAGE INC (Continued) **U003065891**

Zip Code:	Not reported
Country Code:	999
Phone:	(718) 628-5000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/21/2010

Site Id:	24368
Affiliation Type:	Owner
Company Name:	DIECOR REALTY CORP.
Contact Type:	MGR
Contact Name:	DENNIS FIRPO
Address1:	1194 METROPOLITAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 628-5000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/21/2010

Site Id:	24368
Affiliation Type:	On-Site Operator
Company Name:	METRO GARAGE INC
Contact Type:	Not reported
Contact Name:	DENNIS FIRPO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 628-5000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/21/2010

Equipment Records:

J01 - Dispenser - Submersible
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G04 - Tank Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction
G99 - Tank Secondary Containment - Other
D01 - Pipe Type - Steel/Carbon Steel/Iron

METRO GARAGE INC (Continued) **U003065891**

D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
G04 - Tank Secondary Containment - Double-Walled (Underground)
B00 - Tank External Protection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
G99 - Tank Secondary Containment - Other
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
E04 - Piping Secondary Containment - Double-Walled (Underground)
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
G04 - Tank Secondary Containment - Double-Walled (Underground)
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Submersible
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
K00 - Spill Prevention - None
C02 - Pipe Location - Underground/On-ground
F99 - Pipe External Protection - Other
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double-Walled (Underground)
I00 - Overfill - None
A00 - Tank Internal Protection - None
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Submersible
E04 - Piping Secondary Containment - Double-Walled (Underground)
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass

METRO GARAGE INC (Continued) **U003065891**

H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
E04 - Piping Secondary Containment - Double-Walled (Underground)
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None
F00 - Pipe External Protection - None
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
E04 - Piping Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
F99 - Pipe External Protection - Other
J01 - Dispenser - Submersible
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
B04 - Tank External Protection - Fiberglass
J02 - Dispenser - Suction
J02 - Dispenser - Suction
J02 - Dispenser - Suction
F04 - Pipe External Protection - Fiberglass
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
F00 - Pipe External Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
B04 - Tank External Protection - Fiberglass
G99 - Tank Secondary Containment - Other
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
K00 - Spill Prevention - None
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
B04 - Tank External Protection - Fiberglass
A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
H00 - Tank Leak Detection - None
A99 - Tank Internal Protection - Other
I03 - Overfill - Automatic Shut-Off
I03 - Overfill - Automatic Shut-Off
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
A99 - Tank Internal Protection - Other
H00 - Tank Leak Detection - None
I03 - Overfill - Automatic Shut-Off
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
I01 - Overfill - Float Vent Valve
I01 - Overfill - Float Vent Valve

METRO GARAGE INC (Continued) **U003065891**

H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
A99 - Tank Internal Protection - Other
H00 - Tank Leak Detection - None
I01 - Overfill - Float Vent Valve
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
J01 - Dispenser - Submersible
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
G04 - Tank Secondary Containment - Double-Walled (Underground)
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
I00 - Overfill - None
J01 - Dispenser - Submersible
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I00 - Overfill - None
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground

METRO GARAGE INC (Continued) **U003065891**

G00 - Tank Secondary Containment - None
B04 - Tank External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
F04 - Pipe External Protection - Fiberglass
G00 - Tank Secondary Containment - None
J01 - Dispenser - Submersible
G00 - Tank Secondary Containment - None
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground

Tank Info:

Site ID:	24368
Tank Number:	01
Tank ID:	50004
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	019
Tank ID:	232527
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2008
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/21/2010
Site ID:	24368
Tank Number:	02
Tank ID:	50005

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	020
Tank ID:	232528
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2008
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/21/2010
Site ID:	24368
Tank Number:	021
Tank ID:	232529
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2008
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/21/2010
Site ID:	24368
Tank Number:	022
Tank ID:	232530

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2008
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/21/2010
Site ID:	24368
Tank Number:	023
Tank ID:	232531
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2008
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/21/2010
Site ID:	24368
Tank Number:	03
Tank ID:	50006
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	04
Tank ID:	50007

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	05
Tank ID:	50008
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	06
Tank ID:	50009
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	07
Tank ID:	50010

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	08
Tank ID:	50011
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	09
Tank ID:	50012
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	10
Tank ID:	50013

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/5/1955
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/26/2001
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	11
Tank ID:	50014
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1991
Capacity Gallons:	2000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	12
Tank ID:	50015
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1991
Capacity Gallons:	1080
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	13
Tank ID:	50016

METRO GARAGE INC (Continued) **U003065891**

Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1991
Capacity Gallons:	1080
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	14
Tank ID:	50017
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/1999
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	2/1/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	JMKRIMGO
Last Modified:	11/21/2008
Site ID:	24368
Tank Number:	15
Tank ID:	50018
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1991
Capacity Gallons:	550
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	3/25/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-602411
SPDES Number:	Not reported
Emergency Contact:	DENNIS FIRPO, PRES.

METRO GARAGE INC (Continued) **U003065891**

Emergency Telephone:	(718) 628-5000
Operator:	DENNIS FIRPO, PRES.
Operator Telephone:	(718) 628-5000
Owner Name:	DIECOR REALTY CORP.
Owner Address:	1194 METROPOLITAN AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11237
Owner Telephone:	(718) 628-5000
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	BUYRITE GARAGE INC.
Mailing Address:	1188 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11237
Mailing Contact:	MR. DENNIS FIRPO, PRES.
Mailing Telephone:	(718) 628-5000
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	DEC03
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/14/2001
Expiration Date:	08/17/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	26210
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19550501
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None

METRO GARAGE INC (Continued) **U003065891**

Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 10
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19550505
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 11
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19910801
Capacity (gals): 2000
Product Stored: DIESEL
Tank Type: Fiberglass coated steel
Tank Internal: Other
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: Other
Second Containment: Other
Leak Detection: Other

METRO GARAGE INC (Continued) **U003065891**

Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 11
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19910801
Capacity (gals): 2000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/25/2001
Next Test Date: 03/25/2006
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 12
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19910801
Capacity (gals): 1080
Product Stored: DIESEL
Tank Type: Fiberglass coated steel
Tank Internal: Other
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: Other
Second Containment: Other
Leak Detection: Other
Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported

METRO GARAGE INC (Continued) **U003065891**

Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 12
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19910801
Capacity (gals): 1080
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/25/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 13
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19910801
Capacity (gals): 1080
Product Stored: DIESEL
Tank Type: Fiberglass coated steel
Tank Internal: Other
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: Other
Second Containment: Other
Leak Detection: Other
Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999

METRO GARAGE INC (Continued) **U003065891**

Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 13
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19910801
Capacity (gals): 1080
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/25/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 14
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19910801
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Fiberglass coated steel
Tank Internal: Other
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: Other
Second Containment: Other
Leak Detection: Other
Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: Not reported
Deleted: False
Updated: True

METRO GARAGE INC (Continued) **U003065891**

Lat/long: Not reported

Tank Id: 14
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19910801
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/25/2001
Next Test Date: 03/25/2006
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 15
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19910801
Capacity (gals): 550
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/25/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 08/01/1996
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

METRO GARAGE INC (Continued) **U003065891**

Tank Id:	16
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19990301
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Jacketed
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	None
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	14
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	17
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19990301
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Jacketed
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	None
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	14
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	18
Tank Location:	UNDERGROUND
Tank Status:	In Service

METRO GARAGE INC (Continued) **U003065891**

Install Date:	19990301
Capacity (gals):	4000
Product Stored:	DIESEL
Tank Type:	Fiberglass coated steel
Tank Internal:	None
Tank External:	Jacketed
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	None
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	14
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Submersible
Date Tested:	03/25/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	2
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19550501
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	03/26/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1999
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	3
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19550501
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE

METRO GARAGE INC (Continued) **U003065891**

Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 4
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19550501
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 5
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19550501
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating

METRO GARAGE INC (Continued) **U003065891**

Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	03/26/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1999
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	6
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19550501
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	03/26/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1999
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	7
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19550501
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None

METRO GARAGE INC (Continued) **U003065891**

Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 8
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19550501
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 03/26/2001
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 02/01/1999
Test Method: 21
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 9
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19550501
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None

METRO GARAGE INC (Continued) **U003065891**

Overfill Prot:	None
Dispenser:	Suction
Date Tested:	03/26/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	02/01/1999
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

NY Spills:

Site ID:	99222
Facility Addr2:	Not reported
Facility ID:	0302832
Spill Number:	0302832
Facility Type:	ER
SWIS:	2401
Investigator:	RVKETANI
Referred To:	Not reported
Spill Date:	6/17/2003
Reported to Dept:	6/17/2003
CID:	216
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	6/17/2003
Spill Record Last Update:	5/23/2011
Spiller Name:	DENNIS FIRPO
Spiller Company:	METRO GARAGE
Spiller Address:	1188 METROPOLITAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11237
Spiller Company:	999
Contact Name:	CHARLES SCHMIDGALL
Contact Phone:	(631) 224-1680
DEC Region:	2
DER Facility ID:	396848
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL" Sangesland DDO Charles Schmidgall of Aggressive Environmental 631-224-1680 Gas Station which was never registered is now under an EPA court order to pull tanks. Of 10 - 550's on site, 7 were removed, 3 are under the building and are being abandoned in place. 4 other tanks are also "probably" being pulled: Two 1080 gal, One 2000 gal, One 4000 gal. The owner would like to get two of these tanks approved for heating oil storage. Mr. Schmidgall says the excavation is heavily contaminated. He is trying to dig out as much contaminated soil as possible. Sangesland directed him to do a

METRO GARAGE INC (Continued) **U003065891**

delineation and a remediation plan. Contaminated soil letter was sent to the owner: Dennis Firpo 1188 Metropolitan Ave. Brooklyn, NY 11237 10/20/03 TJD cross reference spill #0206511. 12/9/03 TJD Spill reassigned Demeo >>> Rommel. 3/16/04-Vought-See also closed spill #0206038 at same location. PBS 2-602411 5/18/2006 - Mike - Contacted Dennis Firpo who is aware that he needs to deal with soil problem. Also spoke with Russel Construction (718-909-0148) who is doing the work with Agressive Environmental. Firpo still has fines he has to pay to the EPA. Work along with soil testing and removal of if contamination, is going to be performed within the next eight weeks by Russel Construction once the fines are paid. Gave the spill number to Russel Construction so they can report back once the work is done at the site. 10/29/10 - Austin - Reassigned from Scibelli in Albany to Ketani in Region 2 for following up and closing - end 11/9/10 - Raphael Ketani. The spill was called in on 6/17/03. The spill involved the discovery of contaminated soil while removing the tanks. The site is block and lot 2945 and 8. According to the deed dated 12/23/93 in ACRIS, the owner is Diecor Realty Corp., 1176 Metropolitan Avenue, Brklyn, 11237. The PBS is #2-602411. There were 23 tanks. The first 14 were closed and removed on 2/1/99. Tank #15 is a 550 gal. UST with #2 oil. Tanks #16 to #23 are each 4,000 gals. and contain either gasoline or diesel fuel. The owner is listed as Die Cor Realty Corp., 1194 Metropolitan Avenue, Brklyn. Dennis Firpo is the contact at (718) 628-5000. Mail goes to Mr. Firpo (718) 381-5050 at 1188 Metropolitan Avenue. There is no paper file. There is only a CSL in the E-docs. There are 4 other spill cases for 1188 Metropolitan Avenue. These are closed cases: 0011310; 0206038 (referred to this case); 0206511 (referred to this case); 0711153. In general, the cases involved spills of oil onto the ground and into the sewers, and contaminated soil. I tried to contact Mr. Firpo, the owner, at (718) 381-5050. I reached his secretary. She said that he wasn't in yet, but that she will give him my message. I asked her whether the addresses 1176 and 1194 were part of the same company. She said that she didn't think they were. I asked her whether (718) 628-5000 was also Mr. Firpo's number. She said that I could call this number, too. Mr. Firpo called me back. He said that Russel Construction (718) 909-0148 had done all of the tank pulling and cleaning. He said that he wasn't sure whether he had the cleanup report, but he will look for it. I told him that if he doesn't have the report and Russel doesn't have the report, then a new investigation will need to take place. I asked him what the correct name of the company was. Mr. Firpo said it's called Metro Garage. I tried to contact Russel Construction and request a copy of the cleanup report, but I could only leave a phone message for "James." 11/15/10 - Raphael Ketani. Mike Gimelfarb of GE Consulting (718) 997-1282/ cell (917) 868-4713/e-mail gimelfarb.m@att.net called regarding the site. He said that he was the consultant on the job. He thought that all of the reports had been sent to the DEC. I told him that we had nothing. He said that he will look into the matter. Later, I spoke to "James." He said that the phone number I had called was his number, not that of Russel Construction. He had no forwarding information regarding Russel Construction. Next, I tried to contact Mr. Firpo. However, again, I reached one of his secretaries. I left a message that I could not get the cleanup report from Russel Construction and that he was responsible for either providing the report or doing another investigation. Mr. Firpo returned my call. He said that he contacted his architect, Mr. Gimelfarb, and Russel

METRO GARAGE INC (Continued) **U003065891**

Construction. He said that they, as well as he, are looking for the cleanup report. 12/14/10 - Raphael Ketani. Rich Spadalik of ARCO (631) 586-5900 called to request information regarding the spill. He wanted to know who were the parties involved in the cleanup of the site. I gave him the various names. Mr. Spadalik said that Russel Construction went out of business. He tried to contact them (as they owed him money), but he had no success and couldn't find them. He said that he will look for any documents that he has. 2/18/11 - Raphael Ketani. As there has been no response in some time from either Mr. Firpo or Mr. Gimelfarb, and as I haven't received the remediation report, I sent a followup letter to Mr. Firpo. I set a deadline of March 18, 2011 for the remediation report to be submitted or for another soil investigation to take place. 3/3/11 - Raphael Ketani. Mr. Gimelfarb [(718) 997-1282/ cell (917) 868-4713/e-mail gimelfarb.m@att.net] called me today. He wanted to know what Mr. Firpo needed to resolve the spill case. I told him that either he should send me the complete remediation report for the work that was performed previously or he should start a new investigation. Mr. Gimelfarb stated that Russel Construction did the work. However, they were out of business and so the remediation report could not be obtained. I told Mr. Gimelfarb that, in such a case, a new investigation will have to be performed. I told him that Mr. Firpo had until March 18 to send the DEC a work plan for the new investigation. Mr. Gimelfarb said that he understood. Later, Sandy of Volumetric Techniques (VTEQE) (631) 472-4848 called. He wanted to know what the site was about and what the DEC was asking to be done. I told him that the DEC was requiring a full soil and groundwater contamination delineation and groundwater flow determination. He said that he will submit a proposal to Mr. Firpo. He said to contact him in 3 weeks if DEC doesn't hear back from him. 3/14/11 - Raphael Ketani. I spoke to Ariel Czemerinski cell (516) 987-1662. He wanted to know what type of work was required at the site. I told him that the soil and groundwater contamination will need to be delineated and the groundwater flow direction will need to be determined. 3/18/11 - Raphael Ketani. As the work plan had not been submitted by today, the deadline that was indicated in the followup letter, I sent a STIP package to Mr. Firpo. I set a deadline for submission of the signed STIP of April 15. 3/23/11 - Raphael Ketani. The green return card was received with a squiggle as someone's signature in the signature box. Today, I received the soil and groundwater delineation work plan from Volumetric Techniques (VTEQE), Ltd. dated 3/22/11. I began my reivew. 3/24/11 - Raphael Ketani. Jared Bretas (212) 788-3220 of the Mayor's Office of Environmental Remediation called. He said that there is a tax lene on Mr. Firpo's property. The Mayor's Office is trying to estimate how much the property is worth in preparation for an auction. I read some of the case notes to Mr. Bretas. He thanked me and the call ended. 3/28/11 - Raphael Ketani. I finished my review of the VTEQE work plan. They proposed 5 boring locations which they estimated to be on the downgradient side of 3 abandoned tanks, 5 active tanks and 3 pump islands. They will collect the most contaminated soil sample, the lowest dry soil sample and a groundwater sample from each boring. As this is an initial investigation, I found the plan to be acceptable. I called up Sander Sternig, Director (631) 472-4848, and told him that the plan was acceptable and to proceed as soon as possible. 4/15/11 - Raphael Ketani. The investigation report was due today. I tried to contact Mr. Sternig (631) 472-4848, but could only leave a message. The

METRO GARAGE INC (Continued) **U003065891**

message stated that the report was due today. I spoke to Mr. Firpo (718) 381-5050. I asked him why the STIP wasn't sent in. He said that he had given Mr. Gimelfarb all of his paperwork. I told Mr. Firpo that he needed to send the signed STIP to the DEC and today was the due date. I added that he was risking receiving fines and penalties by not sending in the STIP on time. Mr. Firpo said that he will contact Mr. Gimelfarb and try to find out why the STIP wasn't sent in. I asked Mr. Firpo who he had retained as a contractor. He said that it was VTEQE. I told him that the DEC had approved the work plan some time ago and we are now waiting for the investigation report. Mr. Firpo said that he will get back to me. Later, Mr. Firpo called me and said that he had the STIP. He said that he will FAX the signed STIP and send the original by regular mail. I received the FAXed version of the STIP a little while later. 4/16/11 - Raphael Ketani. Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094 called me today, saturday, and left a message. He said that the investigation work was conducted on 4/8/11. There was contamination upgradient. End point samples were taken. The samples have been sent to the lab. 4/18/11 - Raphael Ketani. Today I received the signed STIP with the original signature which had arrived by regular mail. I walked it up to our legal division with a cover memo to our director, Suzanne Matei. 4/21/11 - Raphael Ketani. I received the STIP package with the approval signature of Suzanne Matei, Director of Region 2. I sent the approved STIP to Mr. Firpo. 5/23/11 - Raphael Ketani. I spoke to Mr. Sternig (Sandy) (631) 472-4848/cell (631) 514-1094. He said that he received the analytical results. There is gasoline contamination both upgradient and downgradient. The concentrations of the different analytes are very similar. There is a gas tank on the property. However, the upgradient sample was taken at the edge of the sidewalk where there is another property (57 Varick?) that has a gas tank, according to Mr. Firpo. Mr. Sternig said that he will not submit the investigation report as Mr. Firpo owes him lots of money. I tried to contact Mr. Firpo (718) 381-5050, but I could only leave a message that the DEC needed to receive the investigation report.

Remarks: spill at gas station taking out tanks discovered spill req dec to call him

Material:

Site ID:	99222
Operable Unit ID:	869660
Operable Unit:	01
Material ID:	507282
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported

METRO GARAGE INC (Continued) **U003065891**

Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Q400 **ROYALYARN DYEING** **RCRA-NonGen** **1000187747**
WSW **340 MORGAN AVE** **FINDS** **NYD001529494**
1/8-1/4 **BROOKLYN, NY 11211**
0.138 mi.
728 ft. **Site 2 of 4 in cluster Q**

Relative:
Higher

Actual:
18 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: VANDER DYEING & FINISHING CORP
Facility address: 340 MORGAN AVE
BROOKLYN, NY 11211
EPA ID: NYD001529494
Mailing address: MORGAN AVE
BROOKLYN, NY 11211
Contact: HCONTFIRST HCONTLAST
Contact address: MORGAN AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: (212) 555-1212
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

ROYALYARN DYEING (Continued) **1000187747**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: VANDER DYEING & FINISHING CORP
Classification: Not a generator, verified

Date form received by agency: 06/15/1988
Facility name: VANDER DYEING & FINISHING CORP
Classification: Unverified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/15/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110009464294

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Q401
WSW
1/8-1/4
0.138 mi.
729 ft.

CON EDISON - MANHOLE 62932
344 MORGAN AVE
BROOKLYN, NY 11211

Site 3 of 4 in cluster Q

RCRA-LQG **1014396325**
NYP004185856

Relative:
Higher

Actual:
18 ft.

RCRA-LQG:

Date form received by agency:	03/23/2010
Facility name:	CON EDISON - MANHOLE 62932
Facility address:	344 MORGAN AVE BROOKLYN, NY 11211
EPA ID:	NYP004185856
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLYN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/23/2009
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/23/2009
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

CON EDISON - MANHOLE 62932 (Continued) **1014396325**

Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/23/2009
Facility name:	CON EDISON - MANHOLE 62932
Site name:	CON EDISON
Classification:	Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Violation Status: No violations found

Q402 **CONSOLIDATED EDISON** **MANIFEST** **S110045842**
WSW **344 MORGAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.138 mi.
729 ft. **Site 4 of 4 in cluster Q**

Relative:
Higher

Actual:
18 ft.

NY MANIFEST:

EPA ID:	NYP004185856
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-06
Trans1 Recv Date:	2009-08-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

CONSOLIDATED EDISON (Continued) **S110045842**

Generator EPA ID:	NYP004185856
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	1000.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894833GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-06
Trans1 Recv Date:	2009-08-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004185856
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	1000.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894833GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported

CONSOLIDATED EDISON (Continued) **S110045842**

Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

O403 **SUBSTATION** **NY Spills** **S106126716**
NNW **287 MASPETH AVENUE** **VCP** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.139 mi.
733 ft. **Site 3 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

NY Spills:

Site ID:	94159
Facility Addr2:	Not reported
Facility ID:	0310061
Spill Number:	0310061
Facility Type:	ER
SWIS:	2401
Investigator:	CESAWYER
Referred To:	Not reported
Spill Date:	11/26/2003
Reported to Dept:	11/26/2003
CID:	403
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/17/2003
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/17/2003
Spiller Name:	MIKE RUSSO
Spiller Company:	SUBSTATION
Spiller Address:	287MASPETH AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	MIKE RUSSO
Contact Phone:	(516) 545-5589
DEC Region:	2
DER Facility ID:	102793
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER" 12/11/03 1038 Hrs - Sawyer - Talked to Rob Lowe and Bart Polozotti (516) 545-5511 of Keyspan. They said it was taken care of in house. One of the hazmat personnel, an Eddie will get back to me with disposal information. Closed.
Remarks:	1-3 gallons spilled out at a substation and all of it was cleaned up

Material:

Site ID:	94159
Operable Unit ID:	877718
Operable Unit:	01
Material ID:	499002

SUBSTATION (Continued) **S106126716**

Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

VCP:

Program Type:	VCP
Site Code:	57149
HW Code:	V00631
Site Class:	A
SWIS:	2401
Region:	2
Town:	New York City
Acres:	2.000
Date Record Added:	1/16/2003 9:37:00 AM
Date Record Updated:	6/30/2009 2:48:00 PM
Updated By:	GWCROSS
Site Description:	The Greenpoint Energy Center is located in the Greenpoint section of Brooklyn, New York. The surrounding area is dominated by industrial and commercial uses with a limited residential area northwest of the the site.
Env Problem:	The site is impacted by MGP residuals. Coal tar is present at the site. KeySpan has proposed to remediate the most accessible contamination and leave the remaining contamination in place. The proposed remedy is under review by the department.
Health Problem:	Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary.

O404 **GREENPOINT** **Manufactured Gas Plants** **1008407892**
NNW **287 MASPETH AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.139 mi.
733 ft. **Site 4 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

Manufactured Gas Plants:
No additional information available

O405 **BROOKLYN UNION GAS** **MANIFEST** **S109781740**
NNW **287 MASPETH AVE.** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.139 mi.
733 ft. **Site 5 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0845117
Waste Occurence:	1
UNNA:	3082
Hazard Class:	9
US Dot Description:	env. Hazardous substance liquid nos
No of Containers:	001
Container Type:	TT
Quantity:	420
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0845117
Waste Occurence:	1
EPA Waste Code:	F001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	2000
Manifest ID:	CTF0845117
TSDF EPA ID:	CTD002593887
TSDF Name:	BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address:	50 CROSS STREET
TSDF City,St,Zip:	BRIDGEPORT, CT 06608
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	2/3/2000
Transporter EPA ID:	NYD986908085
Transporter Name:	MILLER ENVIRONMENTAL GROUP INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

BROOKLYN UNION GAS (Continued) **S109781740**

Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	NYD000017186
Generator Phone:	Not reported
Generator Mailing Addr:	287 MASPETH AVE. BROOKLYN
Generator Mailing Town:	Not reported
Generator Mailing State:	NY
Generator Mailing Zip:	11211
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	2/3/2000
Date Received:	2/3/2000
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

O406 **GREENPOINT ENERGY CENTER** **MANIFEST** **S109782368**
NNW **MASPETH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.139 mi.
733 ft. **Site 6 of 12 in cluster O**

Relative: Higher

Actual: 18 ft.

CT MANIFEST:

Waste:

Manifest No:	ctf1215557
Waste Occurence:	1
UNNA:	3082
Hazard Class:	9
US Dot Description:	HAZARDOUS WASTE, LIQUID, N.O.S.
No of Containers:	1
Container Type:	TT
Quantity:	3320
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/8/2006
DEO Who Last Modified Record:	JEB

Waste CD:

Manifest No:	ctf1215557
Waste Occurence:	1
EPA Waste Code:	D018
Recycled Waste?:	F
Date Record Was Last Modified:	8/8/2006
DEO Who Last Modified Record:	JEB

Detail:

Year:	2005
Manifest ID:	ctf1215557
TSDF EPA ID:	CTD002593887
TSDF Name:	BRIDGEPORT UNITED RECYCLING
TSDF Address:	50 Cross St

GREENPOINT ENERGY CENTER (Continued) **S109782368**

TSDF City,St,Zip:	BRIDGEPORT, CT 06610-
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	4/12/2005
Transporter EPA ID:	NYD986908085
Transporter Name:	MILLER ENVIRONMENTAL GROUP, INC.
Transporter Country:	USA
Transporter Phone:	(631)369-4900
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	NYD006978795
Generator Phone:	5165452551
Generator Mailing Addr:	E OLD COUNTRY RD
Generator Mailing Town:	HICKSVILLE
Generator Mailing State:	NY
Generator Mailing Zip:	11801
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	4/12/2005
Date Received:	4/12/2005
Last modified date:	8/8/2006
Last modified by:	JEB
Comments:	Not reported

O407 **GREENPOINT SERVICE CENTER** **TANKS** **S110771709**
NNW **287 MASPETH AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.139 mi.
733 ft. **Site 7 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

TANKS:

Facility Id:	2-306398
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	2012/07/14
UTM X:	590290.94556999998
UTM Y:	4507980.1856899997

O408
NNW
1/8-1/4
0.139 mi.
733 ft.

Relative:
Higher

Actual:
18 ft.

GREENPOINT ENERGY CENTER
287 MASPETH AVENUE
BROOKLYN, NY 11211

Site 8 of 12 in cluster O

Database(s): RCRA-LQG, PADS, FINDS, RAATS, HIST UST, MANIFEST, MANIFEST, NY Spills, NY Hist Spills

EDR ID Number: 1000333143
EPA ID Number: NYD006978795

RCRA-LQG:

Date form received by agency:	03/03/2010
Facility name:	GREENPOINT ENERGY CENTER
Facility address:	287 MASPETH AVENUE BROOKLYN, NY 11211
EPA ID:	NYD006978795
Mailing address:	MASPETH AVENUE BROOKLYN, NY 11211
Contact:	EDWARD J MILLER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(917) 731-8543
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	BROOKLYN UNION GAS CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GREENPOINT ENERGY CENTER
Owner/operator address:	ONE METROTECH CTR BROOKLYN, NY 11201
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/28/1998

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Owner/Op end date: Not reported

Owner/operator name: BROOKLYN UNION GAS COMPANY
Owner/operator address: ONE METROTECH CTR
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/28/1998
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/06/2008
Facility name: GREENPOINT ENERGY CENTER
Classification: Small Quantity Generator

Date form received by agency: 01/01/2007
Facility name: GREENPOINT ENERGY CENTER
Site name: KEYSPAN GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/15/2006
Facility name: GREENPOINT ENERGY CENTER
Site name: KEYSPAN GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/14/2006
Facility name: GREENPOINT ENERGY CENTER
Site name: KEYSPAN GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/24/2004
Facility name: GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002
Facility name: GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Date form received by agency: 01/01/2001
Facility name: GREENPOINT ENERGY CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/06/1998
Facility name: GREENPOINT ENERGY CENTER
Site name: BROOKLYN UNION GAS-GREENPOINT
Classification: Large Quantity Generator

Date form received by agency: 03/18/1996
Facility name: GREENPOINT ENERGY CENTER
Site name: 287 MASPETH AVENUE
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994
Facility name: GREENPOINT ENERGY CENTER
Site name: BROOKLYN UNION GAS COMPANY
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Facility name: GREENPOINT ENERGY CENTER
Site name: BROOKLYN UNION GAS
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990
Facility name: GREENPOINT ENERGY CENTER
Site name: BROOKLYN UNION GAS GREENPOINT FACILITY
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: GREENPOINT ENERGY CENTER
Site name: BROOKLYN UNION GAS GREENPOINT FACILITY
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

GREENPOINT ENERGY CENTER (Continued) **1000333143**

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D005
Waste name: BARIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U154
Waste name: METHANOL (I)

Waste code: B002
Waste name: B002

Waste code: B005
Waste name: B005

Waste code: B007
Waste name: B007

Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: U154
Waste name: METHANOL (I)

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 18988.6

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 9

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 9

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 5060.6

Waste code: D007
Waste name: CHROMIUM

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Amount (Lbs): 9

Waste code: D008
Waste name: LEAD
Amount (Lbs): 2159

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 9

Waste code: D011
Waste name: SILVER
Amount (Lbs): 9

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 18839.6

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 140

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 9

Facility Has Received Notices of Violations:
Regulation violated: SR - 372.3a3 + 372.2b1
Area of violation: Transporters - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 57750
Paid penalty amount: 57750

Regulation violated: SR - 372.2a3 + 372.4a1,3,and f
Area of violation: TSD - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Enforcement action date: 09/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2a3 + 372.4a1,3,and f
Area of violation: TSD - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 57750
Paid penalty amount: 57750

Regulation violated: SR - 372.3a3 + 372.2b1
Area of violation: Transporters - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372 + 372.2a1 and 3
Area of violation: Generators - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/18/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: 57750
Paid penalty amount: 57750

Regulation violated: SR - 372 + 372.2a1 and 3
Area of violation: Generators - General
Date violation determined: 06/28/1993
Date achieved compliance: 11/05/1993
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/29/1993

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 89200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 10/21/1991
Date achieved compliance: 09/28/1992
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 10/21/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 2500
Paid penalty amount: 2500

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/17/1985
Date achieved compliance: 08/13/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/14/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/06/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/31/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/03/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/05/1993
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/28/1993
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 02/22/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 11/05/1993
Evaluation lead agency: EPA

Evaluation date: 02/22/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/05/1993
Evaluation lead agency: EPA

Evaluation date: 02/22/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/05/1993
Evaluation lead agency: EPA

Evaluation date: 10/21/1991
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Manifest
Date achieved compliance: 09/28/1992
Evaluation lead agency: State

Evaluation date: 04/15/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 12/17/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/13/1986
Evaluation lead agency: State

PADS:
EPAID: NYD006978795
Facility name: GREENPOINT ENERGY FAC
Facility Address: 287 MASPETH AVE
BROOKLYN, NY 11211
Facility country: US
Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No
Facility owner name: BROOKLYN UNION GAS CO

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Contact title: Not reported
Contact name: LEIBS LAWRENCE H
Contact tel: (718)403-3052
Contact extension: Not reported
Mailing address: ENGINEERING DEPT 195 MONTAGUE ST
BROOKLYN, NY 11201
Mailing country: US
Cert. title: Not reported
Cert. name: Not reported
Cert. date: 4/3/1990
Date received: 5/15/1990

FINDS:

Registry ID: 110002337784

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

HIST UST:
PBS Number: 2-306398
SPDES Number: Not reported
Emergency Contact: FLEET SERVICES
Emergency Telephone: (718) 963-5446

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Operator:	FACILITIES MANAGEMENT
Operator Telephone:	(718) 963-5446
Owner Name:	BROOKLYN UNION GAS COMPANY
Owner Address:	ONE METROTECH CENTER
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Telephone:	(718) 403-2727
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	BROOKLYN UNION
Mailing Address:	287 MASPETH AVENUE S+S BUILDING
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211-1788
Mailing Contact:	MARY E. CASEY
Mailing Telephone:	(718) 963-5643
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	UTILITY
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/11/1997
Expiration Date:	07/14/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	5000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	None

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 007
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: 19571201
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: NONE
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 010
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19940901
Capacity (gals): 1000
Product Stored: DIESEL
Tank Type: Fiberglass coated steel
Tank Internal: None
Tank External: 24
Pipe Location: Underground
Pipe Type: STAINLESS STEEL ALLOY
Pipe Internal: Fiberglass Liner (FRP)
Pipe External: Fiberglass
Second Containment: Vault (w/access)
Leak Detection: 14
Overfill Prot: High Level Alarm, Catch Basin
Dispenser: Suction

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Date Tested: 01/01/1995
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 011
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19940901
Capacity (gals): 4000
Product Stored: UNLEADED GASOLINE
Tank Type: Fiberglass coated steel
Tank Internal: None
Tank External: 24
Pipe Location: Underground
Pipe Type: STAINLESS STEEL ALLOY
Pipe Internal: Fiberglass Liner (FRP)
Pipe External: Fiberglass
Second Containment: Vault (w/access)
Leak Detection: 14
Overfill Prot: High Level Alarm, Catch Basin
Dispenser: Suction
Date Tested: 01/01/1995
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 0H2
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 55
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Date Closed: 09/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 0H3
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 55
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 09/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 0H4
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 55
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 09/01/1993
Test Method: Not reported
Deleted: False

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Updated: True
Lat/long: Not reported

Tank Id: 0H5
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 55
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 09/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 0H6
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: Not reported
Capacity (gals): 55
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 09/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Tank Id: 362
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: 19591201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: NONE
Pipe Internal: None
Pipe External: None
Second Containment: Other
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 365
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19861201
Capacity (gals): 1000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: Other
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 12/01/1993
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 09/01/1994
Test Method: Tankology [Vacutect]
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 61A
Tank Location: UNDERGROUND
Tank Status: Closed-In Place

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Install Date:	19771201
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	12/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	09/01/1994
Test Method:	Tankology [Vacutect]
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	61B
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19591201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	63A
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19591201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: NONE
Pipe Internal: None
Pipe External: None
Second Containment: Other
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 07/01/1993
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 63B
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19771201
Capacity (gals): 4000
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode
Pipe Location: None
Pipe Type: NONE
Pipe Internal: None
Pipe External: None
Second Containment: Other
Leak Detection: None
Overfill Prot: None
Dispenser: Suction
Date Tested: 11/01/1990
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: 04/01/1993
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 64A
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19591201
Capacity (gals): 550
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Sacrificial Anode

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	07/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	64B
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19771201
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Other
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	11/01/1990
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	04/01/1993
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	LNG
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19691201
Capacity (gals):	300
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	OH7
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	55
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	09/01/1993
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	SNG
Tank Location:	UNDERGROUND
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	19741201
Capacity (gals):	20000
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Sacrificial Anode
Pipe Location:	None
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Overfill Prot:	None
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

NY MANIFEST:

EPA ID:	NYD006978795
Country:	USA
Mailing Name:	KEYSPAN - LNG PLANT GREENPOINT
Mailing Contact:	AMY DROGALIS
Mailing Address:	175 E OLD COUNTRY RD
Mailing Address 2:	Not reported
Mailing City:	HICKSVILLE
Mailing State:	NY
Mailing Zip:	11801
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	917-560-0908

Document ID:	NJA5057749
Manifest Status:	Not reported
Trans1 State ID:	NJD980772768
Trans2 State ID:	Not reported
Generator Ship Date:	07/24/2003
Trans1 Recv Date:	07/24/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/24/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	06993
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Document ID:	NJA4115065
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	11/05/2003
Trans1 Recv Date:	11/05/2003
Trans2 Recv Date:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

TSD Site Recv Date:	11/05/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	50160
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00910
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00182
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MAQ0264006
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	03/14/2003
Trans1 Recv Date:	03/14/2003
Trans2 Recv Date:	03/18/2003
TSD Site Recv Date:	03/19/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	MAD053452637
Trans2 EPA ID:	Not reported
TSDF ID:	AD947JNJ
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00228
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00246
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	01.00
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Quantity:	01381
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: F003 - UNKNOWN
Quantity: 00201
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: NJA4119609
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 05/12/2003
Trans1 Recv Date: 05/12/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/12/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: 050160
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01450
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00750
Units: P - Pounds
Number of Containers: 001
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00750
Units: P - Pounds
Number of Containers: 001
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: F001 - UNKNOWN
Quantity: 00150
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 03

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Document ID:	MDC1030167
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	03/14/2003
Trans1 Recv Date:	03/14/2003
Trans2 Recv Date:	03/17/2003
TSD Site Recv Date:	03/19/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00041
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Document ID:	NJA4119278
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	Not reported
Generator Ship Date:	07/09/2003
Trans1 Recv Date:	07/09/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/09/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	NJD980536593
Trans2 EPA ID:	Not reported
TSDF ID:	50160
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00546
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00230
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: NJA4119278
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 07/09/2003
Trans1 Recv Date: 07/09/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/09/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: 50160
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00600
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: NJA4108267
Manifest Status: Not reported
Trans1 State ID: NJD080631369
Trans2 State ID: Not reported
Generator Ship Date: 08/05/2003
Trans1 Recv Date: 08/05/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/05/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: NJD980536593
Trans2 EPA ID: Not reported
TSDF ID: 50160
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00400
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F001 - UNKNOWN
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	CTF1185708
Manifest Status:	Not reported
Trans1 State ID:	NYD986908085
Trans2 State ID:	Not reported
Generator Ship Date:	10/11/2003
Trans1 Recv Date:	10/11/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/21/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	CTD002593887
Trans2 EPA ID:	Not reported
TSDF ID:	39292PA
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00850
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	CTF1185712
Manifest Status:	Not reported
Trans1 State ID:	NYD986908085
Trans2 State ID:	Not reported
Generator Ship Date:	10/24/2003
Trans1 Recv Date:	10/24/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/24/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	CTD002593887
Trans2 EPA ID:	Not reported
TSDF ID:	AB91000
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	04750

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	CTF1185727
Manifest Status:	Not reported
Trans1 State ID:	NYD986908085
Trans2 State ID:	Not reported
Generator Ship Date:	10/18/2003
Trans1 Recv Date:	10/18/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/21/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	CTD002593887
Trans2 EPA ID:	Not reported
TSDF ID:	AB91000
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	01375
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Document ID:	CTF1185729
Manifest Status:	Not reported
Trans1 State ID:	NYD986908085
Trans2 State ID:	Not reported
Generator Ship Date:	12/30/2003
Trans1 Recv Date:	12/30/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/05/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	CTD002593887
Trans2 EPA ID:	Not reported
TSDF ID:	39292PA
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Document ID:	CTF1185730

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 12/29/2003
Trans1 Recv Date: 12/29/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: 39292PA
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 00700
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185740
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 10/21/2003
Trans1 Recv Date: 10/21/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/21/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: AB91000
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 01000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185742
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 10/13/2003
Trans1 Recv Date: 10/13/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/13/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: AB91000
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185743
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 10/23/2003
Trans1 Recv Date: 10/23/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/24/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: NY27577PA
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 00050
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185919
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 12/01/2003
Trans1 Recv Date: 12/01/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/01/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: AC82488
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185922
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 11/13/2003
Trans1 Recv Date: 11/13/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/13/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: 39292PA
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 03000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185924
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported
Generator Ship Date: 11/12/2003
Trans1 Recv Date: 11/12/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/12/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD006978795
Trans1 EPA ID: CTD002593887
Trans2 EPA ID: Not reported
TSDF ID: 39292PA
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 03000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: CTF1185927
Manifest Status: Not reported
Trans1 State ID: NYD986908085
Trans2 State ID: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Generator Ship Date:	10/20/2003
Trans1 Recv Date:	10/20/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/21/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD006978795
Trans1 EPA ID:	CTD002593887
Trans2 EPA ID:	Not reported
TSDF ID:	AB91000
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	01500
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Click this hyperlink while viewing on your computer to access
1415 additional NY_MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

Manifest Code:	000181226VES
EPA ID:	NYD006978795
Date Shipped:	03/24/09
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/24/09
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/27/09
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	60
Unit:	P

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Hand Code: H141

Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 182
Unit: K
Hand Code: H141

Manifest Code: NJA5019611
EPA ID: NYD006978795
Date Shipped: 20050923
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050923
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050923
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 11090521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5263412
EPA ID: NYD006978795
Date Shipped: 20051214
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	051214
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	051214
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02230622
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5022116
EPA ID:	NYD006978795
Date Shipped:	20050621
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050621
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050621
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	07210525
Reference Manifest Number:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5024115
EPA ID: NYD006978795
Date Shipped: 20050408
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050408
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050408
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 05160522
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5019637
EPA ID: NYD006978795
Date Shipped: 20050816
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050816
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050816
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	09120521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000181127VES
EPA ID:	NYD006978795
Date Shipped:	12/17/2008
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/17/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/24/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 2
Unit: K
Hand Code: H141

Waste Code: U154
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 32
Unit: P
Hand Code: H141

Waste Code: D002
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 1
Unit: K
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 20
Unit: P
Hand Code: H141

Waste Code: D002
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 26
Unit: P
Hand Code: H141

Waste Code: D008
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 720
Unit: P
Hand Code: H141

Waste Code: D002
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 4
Unit: P
Hand Code: H141

Waste Code: U220
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 22
Unit: P
Hand Code: H141

Waste Code: D009
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 1
Unit: P
Hand Code: H141

Waste Code: D001

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Manifest Year: 2008 New Jersey Manifest Data
Quantity: 400
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 16
Unit: P
Hand Code: H141

Waste Code: D002
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 10
Unit: P
Hand Code: H141

Waste Code: D009
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 22
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 99
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 1
Unit: P
Hand Code: H141

Waste Code: D003
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 24
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 200
Unit: P
Hand Code: H141

Manifest Code: 000160961VES
EPA ID: NYD006978795
Date Shipped: 11/5/200
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/5/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/5/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000181303VES
EPA ID:	NYD006978795
Date Shipped:	05/26/09
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/26/09
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/29/09
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 22
Unit: P
Hand Code: H141

Waste Code: D008
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 1500
Unit: P
Hand Code: H141

Manifest Code: 000182204VES
EPA ID: NYD006978795
Date Shipped: 10/16/2008
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 10/16/2008
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 10/16/2008
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D008
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 525
Unit: P
Hand Code: H141

Waste Code: D009
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 100
Unit: P

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Hand Code: H141

Waste Code: F003
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 700
Unit: P
Hand Code: H141

Manifest Code: 000111715VES
EPA ID: NYD006978795
Date Shipped: 9/24/200
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 9/24/2
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 9/24/2
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 100
Unit: KG
Hand Code: H14

Waste Code: F005
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 200
Unit: P
Hand Code: H14

Manifest Code: 000266361VES
EPA ID: NYD006978795
Date Shipped: 8/14/2008

GREENPOINT ENERGY CENTER (Continued) **1000333143**

TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 8/14/2008
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 8/22/2008
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 50
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 620
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 40
Unit: P
Hand Code: H141

Manifest Code: 000181399VES
EPA ID: NYD006978795
Date Shipped: 08/04/09
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 08/04/09
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 08/06/09
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D008
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 3
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 5
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 182
Unit: K
Hand Code: H141

Waste Code: D008
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 100
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 1
Unit: P
Hand Code: H141

Manifest Code: 000017566VES
EPA ID: NYD006978795
Date Shipped: 7/5/2007
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	7/5/20
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	7/5/20
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	400
Unit:	P
Hand Code:	H14

Manifest Code:	000266075VES
EPA ID:	NYD006978795
Date Shipped:	7/1/2008
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	7/1/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	7/1/2008

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 182
Unit: K
Hand Code: H141

Manifest Code: 000181464VES
EPA ID: NYD006978795
Date Shipped: 10/06/09
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 10/06/09
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 10/09/09
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 2
Unit: P
Hand Code: H141

Waste Code: D001
Manifest Year: 2009 New Jersey Manifest Data
Quantity: 140
Unit: P
Hand Code: H141

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Manifest Code:	000017584VES
EPA ID:	NYD006978795
Date Shipped:	5/24/200
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	5/24/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	5/24/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D003
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	10
Unit:	P
Hand Code:	H14

Waste Code:	D009
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	300
Unit:	P
Hand Code:	H14

Waste Code:	F003
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	10
Unit:	P
Hand Code:	H14

Manifest Code:	000346653VES
EPA ID:	NYD006978795
Date Shipped:	11/30/09
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/30/09
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/03/09
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	2800
Unit:	P
Hand Code:	H141

Waste Code:	D008
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	550
Unit:	P
Hand Code:	H141

Manifest Code:	NJA4122525
EPA ID:	NYD006978795
Date Shipped:	20041005
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	041005
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 041005
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 12070425
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA4123681
EPA ID: NYD006978795
Date Shipped: 20040721
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 040721
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 040721
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 08100422
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

NY Spills:

Site ID:	181617
Facility Addr2:	Not reported
Facility ID:	0106270
Spill Number:	0106270
Facility Type:	ER
SWIS:	2401
Investigator:	VSZHUNE
Referred To:	Not reported
Spill Date:	9/13/2001
Reported to Dept:	9/13/2001
CID:	252
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/6/2007
Remediation Phase:	0
Date Entered In Computer:	9/13/2001
Spill Record Last Update:	2/6/2007
Spiller Name:	CALLER
Spiller Company:	KEYSPAN
Spiller Address:	175 EAST OLD COUNRTY RD
Spiller City,St,Zip:	HICKSVILLE, NY -
Spiller Company:	001
Contact Name:	SHAWN DAVIS
Contact Phone:	(516) 545-5589
DEC Region:	2
DER Facility ID:	102793
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD" 9/13/01. J.Krimgold called Shawn Davis of Keyspan and left message. 7/26/06 - Mike - Bart Palozzotti is now attatched to the number 516-545-5511. Unsure if Shawn Davis left Keyspan. Unable to get a hold of Bart. This spill case was reassigned from Bishop to Zhune 02/10/07 Bart Palozzotti sent informartion. Miller Environmental Group did the cleaned up. I received invoice, Daily job report and the waste manifest. Spill Closed
Remarks:	FAULTY VALVE ON TRUCK MAY HAVE CAUSED SPILL-CONTRACTORS ENROTE FOR CLEANUP.

Material:

Site ID:	181617
Operable Unit ID:	844615
Operable Unit:	01
Material ID:	531133
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	200

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	181621
Facility Addr2:	Not reported
Facility ID:	9606233
Spill Number:	9606233
Facility Type:	ER
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Spill Date:	8/13/1996
Reported to Dept:	8/14/1996
CID:	351
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/27/1997
Remediation Phase:	0
Date Entered In Computer:	8/14/1996
Spill Record Last Update:	7/16/1999
Spiller Name:	MARY CASEY
Spiller Company:	BROOKLYN UNION
Spiller Address:	287 MASPETH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	MARY CASEY
Contact Phone:	(718) 403-3088
DEC Region:	2
DER Facility ID:	102793
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE" SEE FILE.
Remarks:	there was a lack of over fill protection on tanks which allowed spill - all material was cleaned up - mark tibbe is familiar with facility

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Material:

Site ID:	181621
Operable Unit ID:	1037209
Operable Unit:	01
Material ID:	345494
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	10
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	0106270
Investigator:	KRIMGOLD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	09/13/2001 18:00
Reported to Dept Date/Time:	09/13/01 18:39
SWIS:	61
Spiller Name:	KEYSPAN
Spiller Contact:	CALLER
Spiller Phone:	(516) 545-5589
Spiller Contact:	SHAWN DAVIS
Spiller Phone:	(516) 545-5589
Spiller Address:	175 EAST OLD COUNRTY RD
Spiller City,St,Zip:	HICKSVILLE, NY -
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	07
Spill Notifier:	Responsible Party

GREENPOINT ENERGY CENTER (Continued) **1000333143**

PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/13/01
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/14/01
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 200
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: FAULTY VALVE ON TRUCK MAY HAVE CAUSED SPILL-CONTRACTORS ENROTE FOR CLEANUP.

Region of Spill: 2
Spill Number: 9606233
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/13/1996 14:00
Reported to Dept Date/Time: 08/14/96 15:37
SWIS: 61
Spiller Name: BROOKLYN UNION
Spiller Contact: MARY CASEY
Spiller Phone: (718) 403-3088
Spiller Contact: MARY CASEY

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Spiller Phone: (718) 403-3088
Spiller Address: 287 MASPETH AVE
Spiller City,St,Zip: BROOKLYN, NY
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/27/97
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/14/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/16/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 10
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 10
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: SEE FILE.
Remark: there was a lack of over fill protection on tanks which allowed spill - all material was cleaned up - mark tibbe is familiar with facility

Region of Spill: 2
Spill Number: 9714234
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported

GREENPOINT ENERGY CENTER (Continued) **1000333143**

Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 03/24/1998 08:30
Reported to Dept Date/Time: 03/24/98 10:40
SWIS: 61
Spiller Name: BROOKLYN UNION
Spiller Contact: MARY CASEY
Spiller Phone: (718) 963-5643
Spiller Contact: MARY CASEY
Spiller Phone: (718) 963-5643
Spiller Address: 287 MASPETH AV
Spiller City,St,Zip: BROOKLYN, NY
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 03/31/98
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 03/24/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 05/22/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: CLEANED BY RP.
Remark: DRUM LEAKED CAUSING SPILL ONTO SOIL - SOIL HAS BEEN EXCAVATED

O409 **GREENPOINT ENERGY CENTER** **MANIFEST** **S109782367**
NNW **287 MASPETH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11801**
0.139 mi.
733 ft. **Site 9 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

CT MANIFEST:

Waste:

Manifest No:	ctf0812664
Waste Occurence:	1
UNNA:	3082
Hazard Class:	9
US Dot Description:	HAZARDOUS WASTE, LIQUID, N.O.S.
No of Containers:	1
Container Type:	TT
Quantity:	3000
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	2/8/2005
DEO Who Last Modified Record:	JEB

Waste CD:

Manifest No:	ctf0812664
Waste Occurence:	1
EPA Waste Code:	D018
Recycled Waste?:	F
Date Record Was Last Modified:	2/8/2005
DEO Who Last Modified Record:	JEB

Detail:

Year:	2004
Manifest ID:	ctf0812664
TSDF EPA ID:	CTD002593887
TSDF Name:	BRIDGEPORT UNITED RECYCLING, INC.
TSDF Address:	50 CROSS STREET
TSDF City,St,Zip:	BRIDGEPORT, CT 06610
TSDF Country:	USA
TSDF Telephone:	2032386745
Transport Date:	1/5/2004
Transporter EPA ID:	NYD986908085
Transporter Name:	MILLER ENVIRONMENTAL GROUP, INC.
Transporter Country:	USA
Transporter Phone:	(631)369-4900
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	nyd006978795
Generator Phone:	5165452560
Generator Mailing Addr:	175 E OLD COUNTRY RD
Generator Mailing Town:	HICKSVILLE
Generator Mailing State:	NY
Generator Mailing Zip:	11801
Generator Mailing Country:	USA

GREENPOINT ENERGY CENTER (Continued) **S109782367**

Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 1/5/2004
Date Received: 1/5/2004
Last modified date: 2/8/2005
Last modified by: JEB
Comments: Not reported

Waste:
Manifest No: CTF1123773
Waste Occurence: 1
UNNA: 3082
Hazard Class: 9
US Dot Description: HAZARDOUS WASTE, LIQUID, N.O.S.
No of Containers: 1
Container Type: TT
Quantity: 2600
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 11/15/2004
DEO Who Last Modified Record: DL

Waste CD:
Manifest No: CTF1123773
Waste Occurence: 1
EPA Waste Code: D018
Recycled Waste?: F
Date Record Was Last Modified: 11/15/2004
DEO Who Last Modified Record: DL

Detail:
Year: 2004
Manifest ID: CTF1123773
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLING, INC.
TSDF Address: 50 CROSS STREET
TSDF City,St,Zip: BRIDGEPORT, CT 06610
TSDF Country: USA
TSDF Telephone: 2032386745
Transport Date: 1/6/2004
Transporter EPA ID: NYD986908085
Transporter Name: MILLER ENVIRONMENTAL GROUP, INC.
Transporter Country: USA
Transporter Phone: (631)369-4900
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: NYD006978795
Generator Phone: 5165452560
Generator Mailing Addr: 175 E OLD COUNTRY RD

GREENPOINT ENERGY CENTER (Continued) **S109782367**

Generator Mailing Town:	HICKSVILLE
Generator Mailing State:	NY
Generator Mailing Zip:	11801
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	1/6/2004
Date Received:	1/6/2004
Last modified date:	11/15/2004
Last modified by:	DL
Comments:	Not reported

O410 **K - GREENPOINT MGP - ENERGY CENTER** **SHWS** **S100494601**
NNW **287 MASPETH AVENUE** **HSWDS** **N/A**
1/8-1/4 **BROOKLYN, NY 11211** **SWF/LF**
0.139 mi. **LTANKS**
733 ft. **Site 10 of 12 in cluster O** **HIST LTANKS**
MOSF AST
Relative: **NY Spills**
Higher **NY Hist Spills**
AIRS
Actual: **MOSF**
18 ft.

SHWS:

Program:	HW
Site Code:	372971
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	117.000
HW Code:	224052
Record Add:	11/2/2006 3:27:00 PM
Record Upd:	8/18/2010 11:55:00 AM
Updated By:	GWCROSS

Site Description: The Greenpoint Manufactured Gas Plant(MGP) site is a large parcel located along Newtown Creek at 287 Maspeth Avenue in Brooklyn,NY in Kings County. The site is currently known as the Greenpoint Energy Center, and houses a major liquefied natural gas storage facility and compressor station, an operations center for KeySpan's distribution and service units, and a warehouse facility. Surrounding land uses are mixed industrial, residential, and commercial. A large MGP and byproduct coking operation operated on the site from 1928 until 1952. Coal tar has been found in subsurface soils, but the full extent of contamination has not yet been established. The surrounding neighborhood also conatins a large petroleum spill, apparently unrelated to the MGP. A VCA to address the northeast corner of the property is listed under V00631. This work was undertaken to allow expansion of the existing liquefied gas facility, and included a relatively small portion of the site. Site characterization is being performed to gather information on bulkhead replacement construction.

Env Problem: According to the USEPA a preliminary assessment (PA) was prepared for the site dated September 24, 1986. The PA was not submitted or reviewed. A draft preliminary site investigaiton report was submitted to the Department in June 2004 for the northeast corner of the site. This report noted MGP DNAPL found across the site in the shallow depths (0-5 feet bgs) This material caused most of the soil samples to fail standards for several SVOCs including naphthalene,

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

	benzo(a)pyrene, and benzo(a)anthracene. The area noted was addressed in an IRM, but should be representative of a best-case for the site as a whole as it was in an area which was not actually part of the MGP operations. These exceedances represent a significant threat to the environment, This material is also known to contribute to groundwater contamination and sediment contamination. The site's location, adjacent to Newtown creek, means there is a potential for DNAPL to be leaking into the creek, contaminating sediments and surface water.
Health Problem:	Public exposures to wastes in soil and groundwater at the site are unlikely since access to the site is restricted. Potential impacts from soil vapors need to be evaluated. Potential exposures to seepage from the site in the adjacent Newtown Creek are unknown. Eating of fish and shellfish from Newtown Creek is restricted based on fish advisories for the East River, which apply to Newtown Creek as a tributary.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	False
Record Add:	11/6/2006 2:08:00 PM
Record Upd:	11/6/2006 2:08:00 PM
Updated By:	DKMACNEA
Own Op:	Owner
Sub Type:	NNN
Owner Name:	N/A
Owner Company:	BROOKLYN UNION GAS COMPANY
Owner Address:	1 METROTECH CENTER
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Country:	United States of America
HW Code:	224052
Waste Type:	NAPHTHALENE
Waste Quantity:	17.00
Waste Code:	Not reported
HW Code:	224052
Waste Type:	PYRENE
Waste Quantity:	83.00
Waste Code:	Not reported
HW Code:	224052
Waste Type:	BENZENE
Waste Quantity:	3.30
Waste Code:	Not reported
HW Code:	224052
Waste Type:	BENZO(A)PYRENE
Waste Quantity:	33.00
Waste Code:	Not reported
HW Code:	224052
Waste Type:	COAL TAR
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224052

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Waste Type: COAL TAR
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

HSWDS:
Facility ID: HS2012
Region: 2
Facility Status: Unknown
Owner Type: Publ Utily
Owner: Brooklyn Union Gas Co.
Owner Address: 195 Montague Street
Owner Phone: (718)403-3053
Operator Type: Unknown
Operator: Unknown
Operator: Unknown
Operator Phone: Unknown
EPA ID: NYD980532014
Registry: Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID: Unknown
RCRA Permitted: Unknown
Site Code: Coal Gasification Plant
Owner City State: Brooklyn
Operator City State: Not reported
Quadrange: Unknown
Latitude: 40 43 10 N
Longitude: 73 55 45 W
Acres: 0.00
Operator Date: 1928
Close Date: Unknown
Completed: PA
Active: Unknown
PCB's Disposed: Unknown
Pesticides Disposed: No
Metals Disposed: Unknown
Asbestos Disposed: No
Volatile Organic Compounds Disposed: No
Semi Volatile Organic Compounds Disposed: No
Analytical Info Exists for Air: Not reported
Analytical Info Exists for Ground: None
Analytical Info Exists for Surface: Not reported
Analytical Info Exists for Sediments: Not reported
Analytical Info Exists for Surface: Not reported
Analytical Info Exists for Substance: Not reported
Analytical Info Exists for Waste: Not reported
Analytical Info Exists for Leachate: Not reported
Analytical Info Exists for EP Toxicity: Not reported
Analytical Info Exists for TCLP: Not reported
Threat to Environment/Public Health: Environmental
Surface Water Contamination: Unknown
Surface Water Body Class: Unknown
Groundwater Contamination: Unknown

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7182705786
Owner Name:	Keyspan Energy Delivery
Owner Type:	Private
Owner Address:	84-24 Ditmas Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11236
Owner Email:	raymond.moore@us.ngrid.com
Owner Phone:	7182705786
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W38
Active:	Yes

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

East Coordinate: 590245
North Coordinate: 4508023
Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status: Registration
Waste Type: Asphalt;Concrete;Brick;Rock;Soil (Clean)
Authorization #: 24W38
Authorization Date: Not reported
Expiration Date: Not reported

LTANKS:
Site ID: 118273
Spill No: 9009058
Spill Date: 11/16/1990
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 3/4/2003
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: ADMIN. CLOSED
Referred To: Not reported
Reported to Dept: 11/16/1990
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 11/20/1990
Spill Record Last Update: 3/4/2003
Spiller Name: Not reported
Spiller Company: BROOKLYN UNION GAS
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 102793
Remarks: 4K TANK FAILED HORNER EZY CHECK WITH AN UNDETERMINED LEAK RATE, WILL EXCAVATE, ISOLATE,REPAIR & RETEST. CLOSED DUE TO LACK OF ANY RECENT INFO - DOES NOT MEET ANY CLEANUP REQUIREMENTS.

Material:
Site ID: 118273
Operable Unit ID: 949558
Operable Unit: 01
Material ID: 432836
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	118273
Spill Tank Test:	1537896
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	181619
Spill No:	9211562
Spill Date:	1/7/1993
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/6/2007
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	VSZHUNE
Referred To:	Not reported
Reported to Dept:	1/7/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1/8/1993
Spill Record Last Update:	2/6/2007
Spiller Name:	FACILITY MANAGER
Spiller Company:	KEYSPAN ENERGY
Spiller Address:	ONE METROTECH CENTER
Spiller City,St,Zip:	BROOKLYN, NY 11201-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	14020
Remarks:	EIR

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Material:

Site ID:	181619
Operable Unit ID:	978534
Operable Unit:	01
Material ID:	404952
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	181619
Spill Tank Test:	1541042
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	9211562
Spill Date:	01/07/1993
Spill Time:	14:30
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	01/07/93
Reported to Department Time:	15:16
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Spiller Extention: Not reported
Spiller Name: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/08/93
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 11/23/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: EIR

Region of Spill: 2
Spill Number: 9009058
Spill Date: 11/16/1990
Spill Time: 15:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Cleanup Meets Standard: False
Investigator: SULLIVAN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 11/16/90
Reported to Department Time: 16:55
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: BROOKLYN UNION GAS
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 11/20/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 11/13/92
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DEC Remarks: Not reported
Spill Cause: 4K TANK FAILED HORNER EZY CHECK WITH AN UNDETERMINED LEAK RATE, WILL EXCAVATE, ISOLATE,REPAIR RETEST.

MOSF AST:

MOSF Number:	2-2340
SWIS Code:	61
Facility Town:	NEW YORK CITY
Facility Phone:	(718) 963-5414
Emergency Contact Name:	ROBERT GUIDI
Emergency Contact Phone:	(718) 963-5414
Total Tanks:	0
Total Capacity:	0
Daily Throughput:	0
License Status:	Not reported
Facility Type:	MANUFACTURING
Product Transfer Operation:	CD
Facility Status:	NO LONGER A MAJOR FACILITY
Operator Name:	ROBERT GUIDI
Owner Name:	BROOKLYN UNION GAS
Owner Address:	195 MONTAGUE STREET
Owner City,St,Zip:	BROOKLYN, NY 11201-
Owner Phone:	(718) 963-5414
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	First Owner
Mailing Name:	BROOKLYN UNION GAS
Mailing Address:	287 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211-
Mailing Contact:	ROBERT GUIDI
Mailing Phone:	(718) 963-5414
Legal Agent Name:	SECRETARY OF STATE OF THE STATE OF NY
Legal Agent Address:	195 MONTAGUE STREET
Legal Agent City,St,Zip:	BROOKLYN, NY 11201-
LIC Expires:	03/31/1992

Tank ID:	T-1001
Tank Location:	ABOVEGROUND
Install Date:	00/73
Product:	EMPTY
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Other
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	Not reported
Date Closed:	10/91
Status of Data:	Complete
Capacity (gal):	417826

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Tank ID:	T-1002
Tank Location:	ABOVEGROUND
Install Date:	00/73
Product:	EMPTY
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	Other
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	417826
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Tank ID:	T-1003

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Tank Location:	ABOVEGROUND
Install Date:	00/56
Product:	EMPTY
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	2
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8A
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	1969093
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Tank ID:	T-1004
Tank Location:	ABOVEGROUND
Install Date:	00/56
Product:	EMPTY
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	1
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8A
Leak Detection:	Vapor Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	1969093

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Tank ID:	T-1005
Tank Location:	ABOVEGROUND
Install Date:	00/56
Product:	EMPTY
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	2
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Contain:	8
Leak Detection:	Groundwater Well
Overfill Protection:	High Level Alarm
Dispensing Mthd:	Suction
Test Date:	12/90
Date Closed:	11/91
Status of Data:	Complete
Capacity (gal):	1969093
Lat/Long:	40|43|28 / 73|55|41
Federal ID:	Not reported
Inspected Date:	/ /
Inspector:	Not reported
Renew Date:	10/30/1991
Inspected State:	Not reported
Pipe Flag:	True
Vessel ID:	Not reported
Reserve Flag:	True
Status of Data:	0
COI Date:	/ /
Date License Issued:	10/23/1991
Date License Application Received:	02/06/1992
Chemical Bulk Storage Number:	Not reported
Pollution Discharge Elimination System Num:	Not reported
Date Legal Agent Filed with Secretary of State:	02/78

Click this hyperlink while viewing on your computer to access additional NY_AST_MOS: detail in the EDR Site Report.

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

NY Spills:

Site ID:	439941
Facility Addr2:	Not reported
Facility ID:	1006581
Spill Number:	1006581
Facility Type:	ER
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Spill Date:	9/17/2010
Reported to Dept:	9/17/2010
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/17/2010
Remediation Phase:	0
Date Entered In Computer:	9/17/2010
Spill Record Last Update:	9/17/2010
Spiller Name:	Not reported
Spiller Company:	NAT GRID
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	MARTIN BRUCELLA
Contact Phone:	(516) 545-2401
DEC Region:	2
DER Facility ID:	394939
DEC Memo:	Not reported
Remarks:	APPROX 25-30 GALLONS OF GAS MAIN DRIP WATER SPILLED TO SOIL/ASPHALT AND GRAVEL. CLEANUP IN PROGRESS.

Material:

Site ID:	439941
Operable Unit ID:	1190570
Operable Unit:	01
Material ID:	2185598
Material Code:	9999
Material Name:	Other - GAS MAIN DRIP WATER
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	351275
Facility Addr2:	Not reported
Facility ID:	0506134
Spill Number:	0506134
Facility Type:	ER
SWIS:	2401
Investigator:	JBVOUGHT
Referred To:	Not reported
Spill Date:	8/18/2005
Reported to Dept:	8/18/2005
CID:	409
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	8/18/2005
Remediation Phase:	0
Date Entered In Computer:	8/18/2005
Spill Record Last Update:	8/18/2005
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	ED MILLER
Contact Phone:	(516) 792-7302
DEC Region:	2
DER Facility ID:	102793
DEC Memo:	8/18/05-Vought-Called Ed and NYFD and NYPD left scene. FDNY put sand around pooled oil. NO responsible parties seen. FDNY diked oil. Pool is near gutter and spill originated from the middle of the street. Pooled oil is 3'x3'. FDNY contact is Captain Horton (Ladder 146) and Captain Villendahl (Engine 206). No sewers or drains affected and DEP was contacted. Vought called Sanitation Operations and they were previously called and are on their way. Spill closed by Vought.
Remarks:	YOU CAN SEE THE TRAIL OF MOTOR OIL ON THE ROADWAY. CLEAN UP IS NOT IN PROCESS. NOT THEIR RESPOSIBILY. ED CELL #917-731-8543.

Material:

Site ID:	351275
Operable Unit ID:	1108800

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Operable Unit: 01
Material ID: 2098772
Material Code: 0015
Material Name: Motor Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 25
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:
Region of Spill: 2
Spill Number: 9305107
Investigator: TIBBE
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 07/13/1993 11:00
Reported to Dept Date/Time: 07/23/93 16:05
SWIS: 63
Spiller Name: BROOKLYN UNION GAS
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/26/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/16/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: / / : CONTAMINATION FOUND. INVESTIGATING. 10/10/95: This is additional information about material spilled from the translation of the old spill file: TANK REMOVAL.
Remark: TANK REMOVAL - WAIT FOR RESULTS.

Region of Spill: 2
Spill Number: 9301329
Investigator: MILLER
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/28/1993 10:40
Reported to Dept Date/Time: 04/28/93 11:20
SWIS: 61
Spiller Name: CAROLINA FREIGHT INC
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Water Affected: Not reported
Spill Source: 08
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/28/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/20/93
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 100
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: DEP ON THE SITE RESP.NO SPILL IN SEWER

AIRS:
Permit Type: Air Title V Facility
Permit Status: Issued
Issue Date: 2007-09-18
Expiration Date: 2012-09-17
County Fips: Not reported
DEC Id: 2610100071
Emission Unit Id: Not reported
Process Id: Not reported
Contaminant Name/cas: Not reported
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: Not reported

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Unit: Not reported

Detail:

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 1832464

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 6248.9574

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 9.39726

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 155.949378630107

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 28238.18

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 2003.4224

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount (Lbs/Yr): 0.987761517314999

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount (Lbs/Yr): 0.13

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	000111762
Contaminant:	ETHANOL, 2-BUTOXY-
Amount (Lbs/Yr):	0.24

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	013463677
Contaminant:	TITANIUM DIOXIDE
Amount (Lbs/Yr):	0.58

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	007727437
Contaminant:	SULFURIC ACID BARIUM SALT
Amount (Lbs/Yr):	0.1

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	014807966
Contaminant:	TALC
Amount (Lbs/Yr):	0.11

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	068855549
Contaminant:	KIESELGHUR SODA ASH FLUX CALCINED
Amount (Lbs/Yr):	0.04

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	0NY075105
Contaminant:	UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr):	2.52

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	000050000
Contaminant:	FORMALDEHYDE
Amount (Lbs/Yr):	3.52894375505281E-05

Year:	2006
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	000050328
Contaminant:	BENZO(A)PYRENE
Amount (Lbs/Yr):	4.70525834007041E-10

Year:	2006

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 4.70525834007041E-10

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 9.41051668014082E-10

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 9.88104251414785E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 0.00161

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 0.00217

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 7.52841334411265E-04

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 1.39198655320058E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 7.99893917811969E-09

Year: 2006
DECID: 2610100071

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Facility Name: GREENPOINT ENERGY CTR
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 2.08797982980086E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 2.87020758744295E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 1.67038386384069E-08

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 9.88104251414785E-04

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 1.59978783562394E-06

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 1.22336716841831E-03

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 8.46946501212673E-04

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 1.39198655320058E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 3.47996638300144E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 2.14940217627335E-03

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.39198655320058E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 2.08797982980086E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 9.41051668014082E-10

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 9.41051668014082E-10

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 3.47996638300144E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 2.64477445108109E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439976

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Contaminant: MERCURY
Amount (Lbs/Yr): 1.80958251916075E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 7.65592604260317E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 1.4615858808606E-06

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 1.39198655320058E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 3.06237041704127E-06

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 8.35191931920345E-09

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 7.65592604260317E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 9.74390587240403E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440484
Contaminant: COBALT

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Amount (Lbs/Yr): 5.84634352344242E-08

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 5.91594285110244E-07

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 1.60078453618066E-06

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 2.01838050214083E-05

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 0.00224

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 1.67038386384069E-08

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 0.00154

Year: 2006
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 5.64631000808449E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 0.924159813189978

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 2.68446421926613E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 2006.044

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075005
Contaminant: PM-10
Amount (Lbs/Yr): 0

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 7.81143082558152E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 1.95285770639538E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 1.30190513759692E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 5.28198870587535E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 1.49719090823646E-03

Year: 2007

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 1911600

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 2.09504

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 1.1441978639495

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 5.53309683478691E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount (Lbs/Yr): 0.04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount (Lbs/Yr): 0.821127427809342

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 3.30057076139278E-02

Year: 2007
DECID: 2610100071

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 22336.66

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 1.692476678876E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 3.2547628439923E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 1.50581

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount (Lbs/Yr): 0.58

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 7.16047825678306E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 0.792136982734267

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 2.47361976143415E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 7.48129372582363E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 2.06349215209501E-03

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 9.54692

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 160.964049384209

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 0.704121762430459

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 1.56220662302755E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 6312.9108

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount (Lbs/Yr): 0.13

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000071432

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Contaminant: BENZENE
Amount (Lbs/Yr): 9.24159813189978E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 014807966
Contaminant: TALC
Amount (Lbs/Yr): 0.11

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 2.02957

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 5.28198870587535E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 1.17155553965973E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 5.28091321822844E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 1.36700039447677E-03

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 2.86419130271322E-03

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 2.52

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 1.5622861651163E-05

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 1.5622861651163E-05

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 1.82250810845819E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount (Lbs/Yr): 0.1

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 1.49625874516473E-03

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount (Lbs/Yr): 7.8314371491765E-10

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 1.44034

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 5.46800157790706E-05

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount (Lbs/Yr): 0.24

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 3.2547628439923E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.17155553965973E-06

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 7.16047825678306E-04

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 1.88776244951553E-02

Year: 2007
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 9.11333596317844E-04

Year: 2008

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 1.56220662302755E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 0.5

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 5.46800157790706E-05

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 2.09504

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 6312.9108

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 0.792136982734267

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 2.68446421926613E-04

Year: 2008
DECID: 2610100071

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 2.47361976143415E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount (Lbs/Yr): 0.12

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.17155553965973E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 7.81143082558152E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 1.95285770639538E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 014807966
Contaminant: TALC
Amount (Lbs/Yr): 0.02

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 1911600

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 9.11333596317844E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount (Lbs/Yr): 0.821126962382472

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 5.28091321822845E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount (Lbs/Yr): 0.03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 7.92029433969575E-07

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 9.24159813189978E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 0.924159813189978

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 2.15252963659806E-03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007782492

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Contaminant: SELENIUM
Amount (Lbs/Yr): 1.5622861651163E-05

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 2.86419130271322E-03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 7.48129372582363E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 1.88776244951553E-02

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 3.30057076139278E-02

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 7.16047825678306E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount (Lbs/Yr): 0.02

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 7.16047825678306E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439921
Contaminant: LEAD

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Amount (Lbs/Yr): 3.2547628439923E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 5.28198870587535E-07

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 5.28198870587535E-07

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 3.2547628439923E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 1.50581

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 1.82250810845819E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount (Lbs/Yr): 7.8314371491765E-10

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount (Lbs/Yr): 0.01

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 1856.684

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 2.02957

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 1.30190513759692E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 1.49719090823646E-03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 5.53309683478691E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 1.692476678876E-04

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount (Lbs/Yr): 0.05

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 22336.66

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 1.44034

Year: 2008

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 1.1441978639495

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 160.963960812151

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 9.16222

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 1.49625874516473E-03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 1.17155553965973E-06

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 1.5622861651163E-05

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 1.36700039447677E-03

Year: 2008
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 0.704121762430459

Permit Type: Air Title V Facility

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Permit Status:	Issued
Issue Date:	2007-09-18
Expiration Date:	2012-09-17
County Fips:	Not reported
DEC Id:	2610100071
Emission Unit Id:	Not reported
Process Id:	Not reported
Contaminant Name/cas:	Not reported
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	Not reported
Unit:	Not reported

Detail:

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	007440622
Contaminant:	VANADIUM
Amount (Lbs/Yr):	2.32959886680915E-02

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	007782492
Contaminant:	SELENIUM
Amount (Lbs/Yr):	2.43088577406172E-04

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	007446095
Contaminant:	SULFUR DIOXIDE
Amount (Lbs/Yr):	17.29692

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	007664417
Contaminant:	AMMONIA
Amount (Lbs/Yr):	32.5984

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	010024972
Contaminant:	NITROUS OXIDE
Amount (Lbs/Yr):	22.4114

Year:	2009
DECID:	2610100071
Facility Name:	GREENPOINT ENERGY CTR
CAS #:	025321226
Contaminant:	DICHLOROBENZENE
Amount (Lbs/Yr):	8.21699449405085E-03

Year:	2009
DECID:	2610100071

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 268.888218869136

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 28412.93

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 2275.1772

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 130498292
Contaminant: POLYCYCLIC AROMATIC HYDROCARBONS
Amount (Lbs/Yr): 1.00417970723681

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000078922
Contaminant: SEC-BUTYL ALCOHOL (8CI)
Amount (Lbs/Yr): 0.03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000111762
Contaminant: ETHANOL, 2-BUTOXY-
Amount (Lbs/Yr): 0.05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007727437
Contaminant: SULFURIC ACID BARIUM SALT
Amount (Lbs/Yr): 0.02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 013463677
Contaminant: TITANIUM DIOXIDE
Amount (Lbs/Yr): 0.12

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

CAS #: 014807966
Contaminant: TALC
Amount (Lbs/Yr): 0.02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 068855549
Contaminant: KIESELGHUR SODA ASH FLUX CALCINED
Amount (Lbs/Yr): 0.01

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 0.5

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 8.21706171202878E-06

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 8.21706171202878E-06

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 1.23254245230983E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 1.8231543877852E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 1.16407421999054E-04

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000050000

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 0.513562155878178

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 0.014379740364589

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 23.4401

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 31.5797

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 10.9559926587345

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 14.379740364589

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 2.32814843998107E-02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 17.8034880704435

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000110543
Contaminant: HEXANE

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Amount (Lbs/Yr): 12.3254917410763

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 4649984

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 8553.0963

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 5.06434536262858E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 1.11415597977829E-02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 0.02127025052304

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 4.45662391911315E-02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 1.11415597977829E-02

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 0.01418016701536

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 8.60938711646859E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 2.83602346031091E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 4.17697220114252E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 2.43088577406172E-04

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 2.43086588853953E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 5.06434536262858E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 2.66309011036514E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.8231543877852E-05

Year: 2009

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 3.03860721757715E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 1.23254245230983E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 1.23254245230983E-05

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 001746016
Contaminant: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
Amount (Lbs/Yr): 1.18318857004577E-08

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 3.84890247559772E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 2.63345958856686E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 2.02573814505143E-03

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 1.21544288703086E-04

Year: 2009
DECID: 2610100071

K - GREENPOINT MGP - ENERGY CENTER (Continued) **S100494601**

Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 8.50810020921601E-04

Year: 2009
DECID: 2610100071
Facility Name: GREENPOINT ENERGY CTR
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 0.293732031032458

MOSF:
Facility ID: 2-2340
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: No Longer MOSF
UTMX: 590195.67868000
UTMY: 4507995.2537200

O411 **KEYSPAN ENERGY** **MANIFEST** **S109797382**
NNW **287 MASPETH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.139 mi.
733 ft. **Site 11 of 12 in cluster O**

Relative: Higher

Actual: 18 ft.

CT MANIFEST:

Waste:
Manifest No: ctf1211359
Waste Occurence: 1
UNNA: 3082
Hazard Class: 9
US Dot Description: HAZARDOUS WASTE, LIQUID, N.O.S.
No of Containers: 1
Container Type: TT
Quantity: 5100
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 9/8/2006
DEO Who Last Modified Record: JEB

Waste CD:
Manifest No: ctf1211359
Waste Occurence: 1
EPA Waste Code: D018
Recycled Waste?: F
Date Record Was Last Modified: 9/8/2006
DEO Who Last Modified Record: JEB

Detail:
Year: 2005
Manifest ID: ctf1211359
TSDF EPA ID: CTD002593887

KEYSPAN ENERGY (Continued) **S109797382**

TSDF Name:	BRIDGEPORT UNITED RECYCLING
TSDF Address:	50 Cross St
TSDF City,St,Zip:	BRIDGEPORT, CT 06610-
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/7/2005
Transporter EPA ID:	NYD986908085
Transporter Name:	MILLER ENVIRONMENTAL GROUP, INC.
Transporter Country:	USA
Transporter Phone:	(631)369-4900
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	nyd000017186
Generator Phone:	Not reported
Generator Mailing Addr:	287 maspeth ave
Generator Mailing Town:	brooklyn
Generator Mailing State:	ny
Generator Mailing Zip:	Not reported
Generator Mailing Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	11/7/2005
Date Received:	Not reported
Last modified date:	11/3/2006
Last modified by:	CYF
Comments:	Not reported

O412 **BKLYN UNION GAS /GREENPOINT ENERGY FACIL** **CERC-NFRAP** **1003863851**
NNW **287 MASPETH AVE** **NYD980532014**
1/8-1/4 **BROOKLYN, NY 11222**
0.139 mi.
733 ft. **Site 12 of 12 in cluster O**

Relative:
Higher

Actual:
18 ft.

CERC-NFRAP:

Site ID:	0201977
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	06/01/1981
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	09/24/1986
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT

BKLYN UNION GAS /GREENPOINT ENERGY FACIL (Continued) **1003863851**

Date Started: 09/05/1986
Date Completed: 09/24/1986
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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413
SSW
1/8-1/4
0.139 mi.
735 ft.

ACME ALBERT STEEL DRUM INC
1050 GRAND ST
BROOKLYN, NY 11211

RCRA-NonGen **1000195208**
FINDS **NYD000390716**
MANIFEST

Relative:
Higher

Actual:
15 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: ACME ALBERT STEEL DRUM INC
Facility address: 1050 GRAND ST
BROOKLYN, NY 112111701
EPA ID: NYD000390716
Mailing address: GRAND ST
BROOKLYN, NY 11211
Contact: Not reported
Contact address: GRAND ST
BROOKLYN, NY 11211
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ACME ALBERT STEEL DRUM INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ACME ALBERT STEEL DRUM INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ACME ALBERT STEEL DRUM INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ACME ALBERT STEEL DRUM INC
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: ACME ALBERT STEEL DRUM INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/05/1985
Date achieved compliance: 02/12/1986
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/05/1985
Date achieved compliance: 02/12/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/10/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/02/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/05/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/12/1986
Evaluation lead agency: State

Evaluation date: 06/05/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/12/1986
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

FINDS:

Registry ID: 110001573761

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD000390716
Country: USA
Mailing Name: ACME ALBERT STEEL DRUM INC
Mailing Contact: SEIGEL GERALD PRES
Mailing Address: 1050 GRAND ST
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11211
Mailing Zip4: 1701
Mailing Country: USA
Mailing Phone: 212-384-1616

Document ID: NYO2425527
Manifest Status: Completed copy
Trans1 State ID: 1A-042
Trans2 State ID: Not reported
Generator Ship Date: 830502
Trans1 Recv Date: 830502
Trans2 Recv Date: Not reported
TSD Site Recv Date: 830502
Part A Recv Date: 030509
Part B Recv Date: 030509
Generator EPA ID: NYD000390716
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: NYD082785429

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03050
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00660
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	012
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	04950
Units:	P - Pounds
Number of Containers:	011
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00275
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	83

Document ID:	NYO2426742
Manifest Status:	Completed copy
Trans1 State ID:	1A-042
Trans2 State ID:	Not reported
Generator Ship Date:	830531
Trans1 Recv Date:	830531
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830531
Part A Recv Date:	030607
Part B Recv Date:	030607
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	NYD082785429
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00660
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	012
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	02500
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Handling Method: Not reported
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00600
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 011
Container Type: DM - Metal drums, barrels
Handling Method: Not reported
Specific Gravity: 100
Waste Code: Not reported
Quantity: 01500
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: Not reported
Specific Gravity: 100
Year: 83

Document ID: NYO2425005
Manifest Status: Completed copy
Trans1 State ID: 1A-042
Trans2 State ID: Not reported
Generator Ship Date: 830414
Trans1 Recv Date: 830414
Trans2 Recv Date: Not reported
TSD Site Recv Date: 830414
Part A Recv Date: 030421
Part B Recv Date: 030421
Generator EPA ID: NYD000390716
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: NYD082785429
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 16500
Units: P - Pounds
Number of Containers: 033
Container Type: DM - Metal drums, barrels
Handling Method: Not reported
Specific Gravity: 100
Year: 83

Document ID: NYO2424303
Manifest Status: Completed copy
Trans1 State ID: 1A-042
Trans2 State ID: Not reported
Generator Ship Date: 830323
Trans1 Recv Date: 830323
Trans2 Recv Date: Not reported
TSD Site Recv Date: 830323
Part A Recv Date: 030330
Part B Recv Date: 030330
Generator EPA ID: NYD000390716
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: NYD082785429

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01925
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	035
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	83

Document ID:	NYO2424438
Manifest Status:	Completed copy
Trans1 State ID:	1A-042
Trans2 State ID:	Not reported
Generator Ship Date:	830329
Trans1 Recv Date:	830329
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830329
Part A Recv Date:	030404
Part B Recv Date:	030404
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	NYD082785429
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01825
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	035
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	83

Document ID:	NYO2954106
Manifest Status:	Completed copy
Trans1 State ID:	JA173
Trans2 State ID:	Not reported
Generator Ship Date:	840801
Trans1 Recv Date:	840801
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840803
Part A Recv Date:	840806
Part B Recv Date:	840809
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	NJD980641617
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	43000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	84

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Document ID:	NYO3004875
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AH0056
Trans2 State ID:	9A045
Generator Ship Date:	830902
Trans1 Recv Date:	830902
Trans2 Recv Date:	830916
TSD Site Recv Date:	830925
Part A Recv Date:	031011
Part B Recv Date:	031011
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	04400
Units:	P - Pounds
Number of Containers:	080
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	83

Document ID:	NYO3004893
Manifest Status:	Completed copy
Trans1 State ID:	PA-056
Trans2 State ID:	Not reported
Generator Ship Date:	831103
Trans1 Recv Date:	831103
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831115
Part A Recv Date:	031123
Part B Recv Date:	031123
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	00025
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	83

Document ID:	NYO3004902
Manifest Status:	Completed copy
Trans1 State ID:	PA-056
Trans2 State ID:	Not reported
Generator Ship Date:	831021
Trans1 Recv Date:	831021
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831024
Part A Recv Date:	031115

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Part B Recv Date:	031115
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00025
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	83

Document ID:	NYO3004911
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-056
Trans2 State ID:	Not reported
Generator Ship Date:	831014
Trans1 Recv Date:	831014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831017
Part A Recv Date:	031115
Part B Recv Date:	031115
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	00025
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	83

Document ID:	NYO2596014
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-056
Trans2 State ID:	OH047
Generator Ship Date:	831108
Trans1 Recv Date:	831108
Trans2 Recv Date:	831116
TSD Site Recv Date:	831118
Part A Recv Date:	031212
Part B Recv Date:	031212
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	00025
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	83

Document ID:	MIA0572510
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-082
Trans2 State ID:	Not reported
Generator Ship Date:	841210
Trans1 Recv Date:	841210
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	841222
Part A Recv Date:	841217
Part B Recv Date:	850129
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD008781072
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	84

Document ID:	MIA0572511
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA015
Trans2 State ID:	Not reported
Generator Ship Date:	841222
Trans1 Recv Date:	841222
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	841222
Part A Recv Date:	850104
Part B Recv Date:	850129
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD064035819
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	84

Document ID:	NYO2596086
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA056

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Trans2 State ID:	Not reported
Generator Ship Date:	840119
Trans1 Recv Date:	840119
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840120
Part A Recv Date:	840203
Part B Recv Date:	840215
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD014146179
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	31000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	MIA0493041
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-082
Trans2 State ID:	Not reported
Generator Ship Date:	841126
Trans1 Recv Date:	841126
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	841127
Part A Recv Date:	841130
Part B Recv Date:	850221
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD008781072
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYA1614051
Manifest Status:	Completed copy
Trans1 State ID:	OH-047
Trans2 State ID:	Not reported
Generator Ship Date:	841023
Trans1 Recv Date:	841023
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	841024
Part A Recv Date:	841031
Part B Recv Date:	841212
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	OHD009865825

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00017
Units:	T - Tons
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO2894139
Manifest Status:	Completed copy
Trans1 State ID:	PAAH017
Trans2 State ID:	Not reported
Generator Ship Date:	840222
Trans1 Recv Date:	840222
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840223
Part A Recv Date:	840301
Part B Recv Date:	840307
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD064035819
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	46000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO1883565
Manifest Status:	Completed copy
Trans1 State ID:	PA015NY
Trans2 State ID:	Not reported
Generator Ship Date:	840518
Trans1 Recv Date:	840518
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840521
Part A Recv Date:	840521
Part B Recv Date:	840530
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD064035819
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	43000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100

ACME ALBERT STEEL DRUM INC (Continued) **1000195208**

Year:	84
Document ID:	MIA0572530
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-0,2
Trans2 State ID:	Not reported
Generator Ship Date:	850301
Trans1 Recv Date:	850301
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	850301
Part A Recv Date:	850325
Part B Recv Date:	850719
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD008781072
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	85

Document ID:	MIA0572529
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	PA-082
Trans2 State ID:	Not reported
Generator Ship Date:	850401
Trans1 Recv Date:	850401
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	850402
Part A Recv Date:	850502
Part B Recv Date:	850503
Generator EPA ID:	NYD000390716
Trans1 EPA ID:	PAD008781072
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	02210
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	042
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	85

Click this hyperlink while viewing on your computer to access
4 additional NY_MANIFEST: record(s) in the EDR Site Report.

L414 **NYC DEP** **MANIFEST** **S109533845**
SSE **1201 METROPOLITAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.144 mi.
762 ft. **Site 11 of 13 in cluster L**

Relative:
Higher

Actual:
10 ft.

NJ MANIFEST:

Manifest Code:	003531975JJK
EPA ID:	NYR000113217
Date Shipped:	8/1/2008
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	8/1/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	8/1/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2008 New Jersey Manifest Data
Quantity:	136
Unit:	G
Hand Code:	H061

Manifest Code:	001085997GBF
EPA ID:	NYR000113217
Date Shipped:	09/04/09
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJD000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	09/04/09

NYC DEP (Continued) **S109533845**

Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/04/09
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	100
Unit:	P
Hand Code:	H141

L415 **NYCDEP - GENERAL STOREHOUSE #1** **RCRA-CESQG** **1006810515**
SSE **1201 METROPOLITAN AVE** **FINDS** **NYR000113217**
1/8-1/4 **BROOKLYN, NY 11237** **MANIFEST**
0.144 mi.
762 ft. **Site 12 of 13 in cluster L**

Relative:
Higher

Actual:
10 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	NYCDEP - GENERAL STOREHOUSE #1
Facility address:	1201 METROPOLITAN AVE BROOKLYN, NY 11237
EPA ID:	NYR000113217
Mailing address:	JUNCTION BLVD - 3RD FLOOR NYCDEP BWSO EHS FLUSHING, NY 113735108
Contact:	STEVEN MUSSO
Contact address:	JUNCTION BLVD - 3RD FLOOR NYCDEP BWSO EHS FLUSHING, NY 113735108
Contact country:	US
Contact telephone:	(718) 366-3322
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYCDEP-BWSO
Owner/operator address:	JUNCTION BLVD FLUSHING, NY 11373
Owner/operator country:	US
Owner/operator telephone:	(718) 366-3322
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	02/04/2003
Owner/Op end date:	Not reported

Owner/operator name:	NYCDEP-BWSO
Owner/operator address:	JUNCTION BLVD FLUSHING, NY 11373
Owner/operator country:	US
Owner/operator telephone:	(718) 595-5330
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	02/04/2003
Owner/Op end date:	Not reported

Owner/operator name:	NYCDEP - GENERAL STOREHOUSE #1
Owner/operator address:	METROPOLITAN AVE BROOKLYN, NY 11237
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	02/04/2003
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	NYCDEP - GENERAL STOREHOUSE #1
Classification:	Conditionally Exempt Small Quantity Generator

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Date form received by agency: 08/31/2004
Facility name: NYCDEP - GENERAL STOREHOUSE #1
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/04/2003
Facility name: NYCDEP - GENERAL STOREHOUSE #1
Site name: GENERAL STOREHOUSE #1
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: B004
Waste name: B004

Waste code: B007
Waste name: B007

Violation Status: No violations found

FINDS:

Registry ID: 110014359096

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

NY MANIFEST:

EPA ID:	NYR000113217
Country:	USA
Mailing Name:	NYCDEP
Mailing Contact:	W YULINSKY
Mailing Address:	59-17 JUNCTION BLVD 3RD FL
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11373
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-595-5272

Document ID:	NJA3277630
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/10/2003
Trans1 Recv Date:	02/10/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/11/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	H10376
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00060
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00040
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	NJA3277671
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/11/2003
Trans1 Recv Date:	02/11/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/21/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	H10376
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00005
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00104
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00192
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2008-08-01
Trans1 Recv Date:	2008-08-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-01
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	136.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003531975JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2009-09-04
Trans1 Recv Date:	2009-09-04
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-09-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	100.0
Units:	L
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	001085997GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-11
Trans1 Recv Date:	2010-01-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-01-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Quantity:	20.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	10
Manifest Tracking Num:	001057023GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2008-08-01
Trans1 Recv Date:	2008-08-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-01
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	136.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003531975JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-11
Trans1 Recv Date:	2010-01-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-01-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	20.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	001057023GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2009-09-04
Trans1 Recv Date:	2009-09-04
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-09-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000113217
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	100.0
Units:	L
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0

NYCDEP - GENERAL STOREHOUSE #1 (Continued) **1006810515**

Year:	09
Manifest Tracking Num:	001085997GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

L416 **RIGHT-WAY DEALER WAREHOUSE INC** **RCRA-NonGen** **1001113557**
SSE **1202 METROPOLITAN AVE** **FINDS** **NYR000025478**
1/8-1/4 **BROOKLYN, NY 11237** **UST**
0.150 mi. **HIST UST**
791 ft. **Site 13 of 13 in cluster L** **MANIFEST**

Relative:
Higher

Actual:
10 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	RIGHT-WAY DEALER WAREHOUSE INC
Facility address:	1202 METROPOLITAN AVE BROOKLYN, NY 112371007
EPA ID:	NYR000025478
Mailing address:	METROPOLITAN AVE BROOKLYN, NY 11237
Contact:	Not reported
Contact address:	METROPOLITAN AVE BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RIGHT-WAY CORP HEADQUARTERS
Owner/operator address:	RTE 22 & PUTNAM LAKE RD BREWSTER, NY 10509
Owner/operator country:	US
Owner/operator telephone:	(914) 278-5888
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	RIGHT-WAY CORP HEADQUARTERS
Owner/operator address:	RTE 22 & PUTNAM LAKE RD BREWSTER, NY 10509
Owner/operator country:	US
Owner/operator telephone:	(914) 278-5888
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: RIGHT-WAY DEALER WAREHOUSE INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: RIGHT-WAY DEALER WAREHOUSE INC
Classification: Not a generator, verified

Date form received by agency: 06/13/1996
Facility name: RIGHT-WAY DEALER WAREHOUSE INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004525844

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

UST:
Facility Id: 2-158445
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590509.40798999998
UTM Y: 4507563.0305000003

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Affiliation Records:

Site Id:	5303
Affiliation Type:	Mail Contact
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	STEVE STABILE
Address1:	80 BUSINESS PARK DR ST 103
Address2:	Not reported
City:	ARMONK
State:	NY
Zip Code:	10504
Country Code:	001
Phone:	(914) 273-1825
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	5303
Affiliation Type:	Emergency Contact
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	STEVE STABILE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(914) 273-1825
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	5303
Affiliation Type:	Owner
Company Name:	KAMPNER REALTY COMPANY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	80 BUSINESS PARK DR ST 103
Address2:	Not reported
City:	ARMONK
State:	NY
Zip Code:	10504
Country Code:	001
Phone:	(914) 273-1825
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	5303
Affiliation Type:	On-Site Operator

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Company Name:	RIGHT-WAY DEALER WAREHOUSE
Contact Type:	Not reported
Contact Name:	RIGHT WAY DEALER WAREHOUSE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 366-1312
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
I00 - Overfill - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	5303
Tank Number:	001
Tank ID:	8516
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1500
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	6/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	10/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5303

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Tank Number:	002
Tank ID:	51475
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	6/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-158445
SPDES Number:	Not reported
Emergency Contact:	STEVE STABILE
Emergency Telephone:	(914) 273-1825
Operator:	RIGHT WAY DEALER WAREHOUSE
Operator Telephone:	(718) 366-1312
Owner Name:	KAMPNER REALTY COMPANY
Owner Address:	80 BUSINESS PARK DR ST 103
Owner City,St,Zip:	ARMONK, NY 10504
Owner Telephone:	(914) 273-1825
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	KAMPNER REALTY COMPANY
Mailing Address:	80 BUSINESS PARK DR ST 103
Mailing Address 2:	Not reported
Mailing City,St,Zip:	ARMONK, NY 10504
Mailing Contact:	STEVE STABILE
Mailing Telephone:	(914) 273-1825
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1202 METROPOLITAN AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	11/13/1992
Expiration Date:	06/05/1997
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	1500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	10/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/1996
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	06/01/1996
Test Method:	Not reported
Deleted:	False

RIGHT-WAY DEALER WAREHOUSE INC (Continued) **1001113557**

Updated: True
Lat/long: Not reported

NY MANIFEST:

EPA ID:	NYR000025478
Country:	USA
Mailing Name:	RIGHT-WAY DEALERS WAREHOUSE
Mailing Contact:	TIMOTHY WILLIAMS
Mailing Address:	1202 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	716-366-1312

Document ID:	NJA2565980
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	55311
Trans2 State ID:	Not reported
Generator Ship Date:	960614
Trans1 Recv Date:	960614
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960614
Part A Recv Date:	960806
Part B Recv Date:	960913
Generator EPA ID:	NYR000025478
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00211
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

P417 **430 MASPETH AVE.** **LTANKS** **S100494019**
ENE **430 MASPETH AVE.** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.158 mi.
832 ft. **Site 3 of 6 in cluster P**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Site ID:	260707
Spill No:	9206929
Spill Date:	9/9/1992
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/3/1997

430 MASPETH AVE. (Continued) **S100494019**

Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	9/16/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	9/18/1992
Spill Record Last Update:	6/6/2003
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	212920
Remarks:	DURING TANK REMOVAL U/G SOIL CONTAMINATED DISOV. STOCKPILED, SAMPLED, WILL DISPOSE AS NECESSARY- TRANS-CON BANKRUPT CALLER REPRESENTS HOLDING CO. MCLAREN HART WILL SEND ASSESSMENT TO AUSTIN

Material:

Site ID:	260707
Operable Unit ID:	970698
Operable Unit:	01
Material ID:	407610
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-10
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

430 MASPETH AVE. (Continued) **S100494019**

HIST LTANKS:

Region of Spill:	2
Spill Number:	9206929
Spill Date:	09/09/1992
Spill Time:	17:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	AUSTIN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	09/16/92
Reported to Department Time:	10:36
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	09/18/92
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	11/19/92
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported

430 MASPETH AVE. (Continued) **S100494019**

Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -10
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: CONTAMINATED SOIL.
Spill Cause: DURING TANK REMOVAL U/G SOIL CONTAMINATED DISOV. STOCKPILED, SAMPLED, WILL DISPOSE AS NECESSARY- TRANS-CON BANKRUPT CALLER REPRESENTS HOLDING CO. MCLAREN HART WILL SEND ASSESSMENT TO AUSTIN

P418 **TRANSCON LINES** **RCRA-NonGen** **1000693502**
ENE **430 MASPETH AVE** **FINDS** **NYD986995512**
1/8-1/4 **BROOKLYN, NY 11211** **UST**
0.158 mi. **HIST UST**
832 ft. **Site 4 of 6 in cluster P** **MANIFEST**

Relative:
Higher

Actual:
12 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: TRANSCON LINES TERMINAL
Facility address: 430 MASPETH AVE
BROOKLYN, NY 112111704
EPA ID: NYD986995512
Mailing address: MASPETH AVE
BROOKLYN, NY 11211
Contact: Not reported
Contact address: MASPETH AVE
BROOKLYN, NY 11211
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: L GUMPORT TURSTEE OF BANK
Owner/operator address: 355 S GRAND AVE 40TH FL
LOS ANGELES, CA 90071
Owner/operator country: US
Owner/operator telephone: (213) 617-7070
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: L GUMPORT TURSTEE OF BANK
Owner/operator address: 355 S GRAND AVE 40TH FL

TRANSCON LINES (Continued) **1000693502**

LOS ANGELES, CA 90071
Owner/operator country: US
Owner/operator telephone: (213) 617-7070
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: TRANSCON LINES TERMINAL
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: TRANSCON LINES TERMINAL
Classification: Not a generator, verified

Date form received by agency: 06/22/1993
Facility name: TRANSCON LINES TERMINAL
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004487243

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

UST:
Facility Id: 2-016071
Region: STATE

TRANSCON LINES (Continued) **1000693502**

DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590565.30493999994
UTM Y: 4508073.5388599997

Affiliation Records:

Site Id: 107
Affiliation Type: Owner
Company Name: TRANSCON LINES
Contact Type: Not reported
Contact Name: Not reported
Address1: 430 MASPETH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 385-8800
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: JMKRIMGO
Date Last Modified: 3/24/2005

Site Id: 107
Affiliation Type: Mail Contact
Company Name: TRANSCON LINES
Contact Type: Not reported
Contact Name: Not reported
Address1: 430 MASPETH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 385-8800
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: JMKRIMGO
Date Last Modified: 3/24/2005

Site Id: 107
Affiliation Type: On-Site Operator
Company Name: TRANSCON LINES
Contact Type: Not reported
Contact Name: TRANSCON LINES
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: (718) 388-8000
Phone Ext: Not reported
Email: Not reported

TRANSCON LINES (Continued) **1000693502**

Fax Number:	Not reported
Modified By:	JMKRIMGO
Date Last Modified:	3/24/2005

Site Id:	107
Affiliation Type:	Emergency Contact
Company Name:	TRANSCON LINES
Contact Type:	Not reported
Contact Name:	JOHN WILEY, TERMINAL M ANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 385-8800
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	JMKRIMGO
Date Last Modified:	3/24/2005

Equipment Records:

B00 - Tank External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
B00 - Tank External Protection - None
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None

TRANSCON LINES (Continued) **1000693502**

G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None

TRANSCON LINES (Continued) **1000693502**

B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
J02 - Dispenser - Suction
J02 - Dispenser - Suction
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	107
Tank Number:	001
Tank ID:	26929
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	002
Tank ID:	26930
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported

TRANSCON LINES (Continued) **1000693502**

Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	003
Tank ID:	26931
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	004
Tank ID:	26932
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	005
Tank ID:	26933
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported

TRANSCON LINES (Continued) **1000693502**

Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	006
Tank ID:	26934
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	007
Tank ID:	26935
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	008
Tank ID:	26936
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported

TRANSCON LINES (Continued) **1000693502**

Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	009
Tank ID:	26937
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	010
Tank ID:	26938
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	107
Tank Number:	011
Tank ID:	26939
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1992
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported

TRANSCON LINES (Continued) **1000693502**

Date Tank Closed: 9/1/1992
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 107

Tank Number: 012
Tank ID: 26940
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 8/1/1992
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 9/1/1992
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 107

Tank Number: 013
Tank ID: 26941
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 8/1/1992
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: 9/1/1992
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-016071
SPDES Number: Not reported
Emergency Contact: JOHN WILEY, TERMINAL M ANAGER
Emergency Telephone: (718) 385-8800
Operator: TRANSCON LINES
Operator Telephone: (718) 388-8000
Owner Name: TRANSCON LINES
Owner Address: 430 MASPETH AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Telephone: (718) 385-8800

TRANSCON LINES (Continued) **1000693502**

Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	TRANSCON LINES
Mailing Address:	430 MASPETH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11211
Mailing Contact:	Not reported
Mailing Telephone:	(718) 385-8800
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	430 MASPETH AV
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/25/1992
Expiration Date:	10/23/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992

TRANSCON LINES (Continued) **1000693502**

Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True

TRANSCON LINES (Continued) **1000693502**

Lat/long: Not reported

Tank Id: 004
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19920801
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 005
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19920801
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

TRANSCON LINES (Continued) **1000693502**

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place

TRANSCON LINES (Continued) **1000693502**

Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	DIESEL

TRANSCON LINES (Continued) **1000693502**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	011
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	012
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19920801
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported

TRANSCON LINES (Continued) **1000693502**

Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 013
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19920801
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1992
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

NY MANIFEST:
EPA ID: NYD986995512
Country: USA
Mailing Name: TRANSCON LINES
Mailing Contact: LAWRENCE V WILSON
Mailing Address: 10851 SUNSET PLAZA / RAMPICO
Mailing Address 2: Not reported
Mailing City: SUNSET
Mailing State: MO
Mailing Zip: 63127
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 314-821-9333

TRANSCON LINES (Continued) **1000693502**

Document ID:	NJA0981178
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NJDEPS632
Trans2 State ID:	Not reported
Generator Ship Date:	920511
Trans1 Recv Date:	920511
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920511
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986995512
Trans1 EPA ID:	NJD991291584
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

Document ID:	NJA0981398
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS632
Trans2 State ID:	Not reported
Generator Ship Date:	930405

TRANSCON LINES (Continued) **1000693502**

Trans1 Recv Date:	930405
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930405
Part A Recv Date:	Not reported
Part B Recv Date:	930427
Generator EPA ID:	NYD986995512
Trans1 EPA ID:	NJD991291584
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03200
Units:	P - Pounds
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYB4604841
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	930819
Trans1 Recv Date:	930819
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930820
Part A Recv Date:	930901
Part B Recv Date:	930831
Generator EPA ID:	NYD986995512
Trans1 EPA ID:	NJD986609949
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	45680
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93

Document ID:	NYB4604859
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	930819
Trans1 Recv Date:	930819
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930820
Part A Recv Date:	930901
Part B Recv Date:	930831
Generator EPA ID:	NYD986995512
Trans1 EPA ID:	NJD986609949
Trans2 EPA ID:	Not reported
TSDF ID:	OHD045243706

TRANSCON LINES (Continued) **1000693502**

Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	52000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	93

P419 **EMPIRE TRANSIT MIX INC** **AST** **A100293913**
ENE **430 MASPETH AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.158 mi.
832 ft. **Site 5 of 6 in cluster P**

Relative:
Higher

Actual:
12 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609891
Program Type:	PBS
UTM X:	590584.40908000001
UTM Y:	4508121.6084200004
Expiration Date:	2014/08/09

Affiliation Records:

Site Id:	342500
Affiliation Type:	On-Site Operator
Company Name:	EMPIRE TRANSIT MIX INC
Contact Type:	Not reported
Contact Name:	ANGELLO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 384-3000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	EXROSSAN
Date Last Modified:	3/24/2005

Site Id:	342500
Affiliation Type:	Owner
Company Name:	DGR REALTY LLC
Contact Type:	PRESIDENT
Contact Name:	ROCCO TOMASSETTI
Address1:	430 MASPETH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 384-3000
Phone Ext:	Not reported
Email:	Not reported

EMPIRE TRANSIT MIX INC (Continued) **A100293913**

Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	5/25/2005

Site Id:	342500
Affiliation Type:	Emergency Contact
Company Name:	DGR REALTY LLC
Contact Type:	Not reported
Contact Name:	ROCCO TOMASSETTI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 384-3000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	5/25/2005

Site Id:	342500
Affiliation Type:	Mail Contact
Company Name:	EMPIRE TRANSIT MIX INC.
Contact Type:	Not reported
Contact Name:	DINA TAMMARO
Address1:	430 MASPETH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 384-3000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	6/5/2009

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)
B05 - Tank External Protection - Jacketed
L00 - Piping Leak Detection - None
K00 - Spill Prevention - None
C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None

Tank Info:

EMPIRE TRANSIT MIX INC (Continued) **A100293913**

Tank Number:	001
Tank Id:	196276
Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1999
Capacity Gallons:	250
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	6/5/2009

Tank Number:	001-A
Tank Id:	206536
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/9/1999
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	5/25/2005

P420 **EMPIRE TRANSIT MIX INC** **RCRA-NonGen** **1010325157**
ENE **430 MASPETH AVE** **NYN008015661**
1/8-1/4 **BROOKLYN, NY 11237**
0.158 mi.
832 ft. **Site 6 of 6 in cluster P**

Relative:
Higher

Actual:
12 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	EMPIRE TRANSIT MIX INC
Facility address:	430 MASPETH AVE BROOKLYN, NY 11237
EPA ID:	NYN008015661
Mailing address:	MASPETH AVE BROOKLYN, NY 11237
Contact:	JANICE AMERUSO
Contact address:	MASPETH AVE BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	(718) 384-3000
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator

EMPIRE TRANSIT MIX INC (Continued) **1010325157**

Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/25/2006
Facility name: EMPIRE TRANSIT MIX INC
Classification: Not a generator, verified

Date form received by agency: 04/24/2006
Facility name: EMPIRE TRANSIT MIX INC
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/18/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

R421 **BUSINESS** **UST** **U003153169**
SW **275 MORGAN AVENUE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.159 mi.
842 ft. **Site 1 of 2 in cluster R**

Relative:
Higher

Actual:
18 ft.

UST:
Facility Id: 2-602798
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590000.79093000002
UTM Y: 4507498.5411299998

Affiliation Records:
Site Id: 24754
Affiliation Type: Emergency Contact
Company Name: OKEH REALTY INC.
Contact Type: Not reported

BUSINESS (Continued) **U003153169**

Contact Name:	MICHAEL JANNUZZI, ESQ.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 385-8182
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24754
Affiliation Type:	Owner
Company Name:	OKEH REALTY INC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	31 CROSBY PLACE
Address2:	Not reported
City:	COLD SPRING HARBOR
State:	NY
Zip Code:	11724
Country Code:	001
Phone:	(516) 261-6577
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24754
Affiliation Type:	Mail Contact
Company Name:	MICHAEL JANNUZZI, ESQ.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	775 PARK AVENUE, SUITE 205
Address2:	Not reported
City:	HUNTINGTON
State:	NY
Zip Code:	11743
Country Code:	001
Phone:	(516) 385-8182
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24754
Affiliation Type:	On-Site Operator
Company Name:	BUSINESS
Contact Type:	Not reported
Contact Name:	MICHAEL JANNUZZI, ESQ.
Address1:	Not reported
Address2:	Not reported

BUSINESS (Continued) **U003153169**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 385-8182
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None

Tank Info:

Site ID:	24754
Tank Number:	1
Tank ID:	51660
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True

BUSINESS (Continued) **U003153169**

Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 24754

Tank Number: 2
Tank ID: 51661
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 550
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 24754

Tank Number: 3
Tank ID: 51662
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 1000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-602798
SPDES Number: Not reported
Emergency Contact: MICHAEL JANNUZZI, ESQ.
Emergency Telephone: (516) 385-8182
Operator: MICHAEL JANNUZZI, ESQ.
Operator Telephone: (516) 385-8182
Owner Name: OKEH REALTY INC.
Owner Address: 31 CROSBY PLACE
Owner City,St,Zip: COLD SPRING HARBOR, NY 11724
Owner Telephone: (516) 261-6577
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: MICHAEL JANNUZZI, ESQ.
Mailing Address: 775 PARK AVENUE, SUITE 205
Mailing Address 2: Not reported

BUSINESS (Continued) **U003153169**

Mailing City,St,Zip:	HUNTINGTON, NY 11743
Mailing Contact:	Not reported
Mailing Telephone:	(516) 385-8182
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	10/24/2001
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

BUSINESS (Continued) **U003153169**

Tank Id:	2
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	3
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

S422 **SIGNS & DECALS** **AST** **A100296040**
West **410 MORGAN AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.160 mi.
844 ft. **Site 1 of 7 in cluster S**

Relative:
Higher

Actual:
29 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608492
Program Type:	PBS
UTM X:	589787.81717000005
UTM Y:	4508018.4409400001
Expiration Date:	2013/03/05

Affiliation Records:

Site Id:	30344
Affiliation Type:	Emergency Contact
Company Name:	BABU KHALFAN
Contact Type:	Not reported
Contact Name:	MEHUL DHARIA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 486-6400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	5/1/2009

Site Id:	30344
Affiliation Type:	On-Site Operator
Company Name:	SIGNS & DECALS
Contact Type:	Not reported
Contact Name:	BABU KHALFAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 486-6400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30344
Affiliation Type:	Owner
Company Name:	BABU KHALFAN
Contact Type:	PRES
Contact Name:	BABU KHALFAN
Address1:	410 MORGAN AVE
Address2:	Not reported

SIGNS & DECALS (Continued) **A100296040**

City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 486-6400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	5/1/2009

Site Id:	30344
Affiliation Type:	Mail Contact
Company Name:	SIGN AND DECAL CORP
Contact Type:	Not reported
Contact Name:	MEHUL DHARIA
Address1:	410 MORGAN AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 486-6400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	5/1/2009

Equipment Records:

B00 - Tank External Protection - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Submersible
G01 - Tank Secondary Containment - Diking (Aboveground)
F00 - Pipe External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None

Tank Info:

Tank Number:	001
Tank Id:	65246
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1988
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT

SIGNS & DECALS (Continued) **A100296040**

Last Modified: 3/4/2004

S423 **SIGNS & DECAL CORP.** **RCRA-SQG** **1000318791**
West **410 MORGAN AVENUE** **FINDS** **NYD981489248**
1/8-1/4 **BROOKLYN, NY 11211**
0.160 mi.
844 ft. **Site 2 of 7 in cluster S**

Relative:
Higher

Actual:
29 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	SIGNS & DECAL CORP.
Facility address:	410 MORGAN AVENUE BROOKLYN, NY 11211
EPA ID:	NYD981489248
Contact:	RALPH J CARITO
Contact address:	410 MORGAN AVENUE BROOKLYN, NY 11211
Contact country:	US
Contact telephone:	(973) 326-8800
Contact email:	RCARITO@PRIMEENVIRONMENTAL.COM
EPA Region:	02
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SIGN & DECAL CORP.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/01/1972
Owner/Op end date:	Not reported

Owner/operator name:	SIGN & DECAL CORP.
Owner/operator address:	410 MORGAN AVENUE BROOKLYN, NY 11211
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	02/01/1972
Owner/Op end date:	Not reported

Owner/operator name:	SIGN & DECAL CORP
Owner/operator address:	410 MORGAN AVE BROOKLYN, NY 11211
Owner/operator country:	US
Owner/operator telephone:	(718) 486-6400
Legal status:	Private
Owner/Operator Type:	Owner

SIGNS & DECAL CORP. (Continued) **1000318791**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NO NAME FOUND
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/01/1972
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SIGNS & DECAL CORP.
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/01/2004
Facility name: SIGNS & DECAL CORP.
Classification: Large Quantity Generator

Date form received by agency: 02/13/1998
Facility name: SIGNS & DECAL CORP.
Site name: SIGNS AND DECAL CORP
Classification: Large Quantity Generator

Date form received by agency: 05/16/1997
Facility name: SIGNS & DECAL CORP.
Site name: SIGNS & DECAL CORP
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE

SIGNS & DECAL CORP. (Continued) **1000318791**

MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: SR - 371.1(f)(7)
Area of violation: Generators - General
Date violation determined: 05/02/2002
Date achieved compliance: 06/21/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/15/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/05/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/02/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/21/2002
Evaluation lead agency: State

Evaluation date: 11/03/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110000880814

Environmental Interest/Information System

SIGNS & DECAL CORP. (Continued) **1000318791**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

S424 **SIGNS & DECAL CORP** **MANIFEST** **S110047303**
West **410 MORGAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11222**
0.160 mi.
845 ft. **Site 3 of 7 in cluster S**

Relative:
Higher

Actual:
28 ft.

NY MANIFEST:

EPA ID:	NYD981489248
Country:	USA
Mailing Name:	SIGNS & DECAL CORP
Mailing Contact:	SIGNS & DECAL CORP
Mailing Address:	410 MORGAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	516-486-6400

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-05-28
Trans1 Recv Date:	2009-05-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-06-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904543JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

SIGNS & DECAL CORP (Continued) **S110047303**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-09-16
Trans1 Recv Date:	2009-09-16
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-10-01
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904735JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-19
Trans1 Recv Date:	2009-08-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566

SIGNS & DECAL CORP (Continued) **S110047303**

Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904680JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-05-28
Trans1 Recv Date:	2009-05-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-06-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	275.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904543JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

SIGNS & DECAL CORP (Continued) **S110047303**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-23
Trans1 Recv Date:	2009-07-23
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904630JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-05-28
Trans1 Recv Date:	2009-05-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-06-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

SIGNS & DECAL CORP (Continued) **S110047303**

Year:	09
Manifest Tracking Num:	003904543JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-09-16
Trans1 Recv Date:	2009-09-16
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-10-01
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904735JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-23
Trans1 Recv Date:	2009-07-23

SIGNS & DECAL CORP (Continued) **S110047303**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904630JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-19
Trans1 Recv Date:	2009-08-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904680JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

SIGNS & DECAL CORP (Continued) **S110047303**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-10-14
Trans1 Recv Date:	2009-10-14
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-10-29
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904784JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2009-05-28
Trans1 Recv Date:	2009-05-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-06-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported

SIGNS & DECAL CORP (Continued) **S110047303**

Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	275.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	003904543JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-02-17
Trans1 Recv Date:	2010-02-17
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-03-17
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	10
Manifest Tracking Num:	006831522JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

SIGNS & DECAL CORP (Continued) **S110047303**

Mgmt Method Type Code: H111

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD054126164
Trans2 State ID: Not reported
Generator Ship Date: 2010-01-06
Trans1 Recv Date: 2010-01-06
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2010-01-25
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD981489248
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: MID980991566
Waste Code: Not reported
Quantity: 280.0
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 4.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 10
Manifest Tracking Num: 003904926JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H111

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD054126164
Trans2 State ID: Not reported
Generator Ship Date: 2010-12-30
Trans1 Recv Date: 2010-12-30
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2011-01-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD981489248
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: MID980991566
Waste Code: Not reported
Quantity: 165.0
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 3.0

SIGNS & DECAL CORP (Continued) **S110047303**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006832141JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-12-30
Trans1 Recv Date:	2010-12-30
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-01-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	275.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006832141JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164

SIGNS & DECAL CORP (Continued) **S110047303**

Trans2 State ID:	Not reported
Generator Ship Date:	2010-04-21
Trans1 Recv Date:	2010-04-21
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-05-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	SCD036275626
Waste Code:	Not reported
Quantity:	806.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006831644JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-12-30
Trans1 Recv Date:	2010-12-30
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2011-01-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	SCD036275626
Waste Code:	Not reported
Quantity:	792.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006832156JJK
Import Ind:	N

SIGNS & DECAL CORP (Continued) **S110047303**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-06
Trans1 Recv Date:	2010-01-06
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-01-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	280.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	003904926JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-02-17
Trans1 Recv Date:	2010-02-17
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-03-17
Part A Recv Date:	Not reported

SIGNS & DECAL CORP (Continued) **S110047303**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006831522JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	2010-04-21
Trans1 Recv Date:	2010-04-21
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-06-07
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981489248
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006831645JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

SIGNS & DECAL CORP (Continued) **S110047303**

Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H111

Click this hyperlink while viewing on your computer to access
4 additional NY_MANIFEST: record(s) in the EDR Site Report.

S425 **JOSF H LOWENSTEIN & SON** **LTANKS** **S102660111**
WNW **420 MORGAN AVE** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.173 mi.
911 ft. **Site 4 of 7 in cluster S**

Relative:
Higher

Actual:
30 ft.

LTANKS:

Site ID:	209407
Spill No:	9704885
Spill Date:	7/24/1997
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/16/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	7/24/1997
CID:	257
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/24/1997
Spill Record Last Update:	8/18/2003
Spiller Name:	KAY STERN
Spiller Company:	JOSEPH LOWENSTEIN & SON
Spiller Address:	420 MORGAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11222-
Spiller County:	001
Spiller Contact:	KAY STERN
Spiller Phone:	(718) 388-5410
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	148750
Remarks:	WATER LEAKING INTO A FUEL TANK AND FUEL LEAKING OUT BELIEVES SOME DID GET INTO SEWER - SPILL IS CONTAINED BUT NOT CLEANED UP YET

Material:

Site ID:	209407
Operable Unit ID:	1050744
Operable Unit:	01
Material ID:	334121

JOSF H LOWENSTEIN & SON (Continued) **S102660111**

Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9704885
Spill Date:	07/24/1997
Spill Time:	08:12
Spill Cause:	Tank Failure
Resource Affectd:	In Sewer
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/24/97
Reported to Department Time:	09:57
SWIS:	61
Spiller Contact:	KAY STERN
Spiller Phone:	(718) 388-5410
Spiller Extention:	Not reported
Spiller Name:	JOSF H LOWENSTEIN & SON
Spiller Address:	420 MORGAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11222-
Spiller Cleanup Date:	/ /

JOSF H LOWENSTEIN & SON (Continued) **S102660111**

Facility Contact: KAY STERN
Facility Phone: (718) 388-5410
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 07/24/97
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/29/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: FAXED TO ECS.
Spill Cause: WATER LEAKING INTO A FUEL TANK AND FUEL LEAKING OUT BELIEVES SOME DID GET INTO SEWER - SPILL IS CONTAINED BUT NOT CLEANED UP YET

S426 **JOSH LOWENSTEIN & SONS INC** **UST** **U001838856**
WNW **420 MORGAN AVE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11222** **AST**
0.173 mi. **NY Spills**
911 ft. **Site 5 of 7 in cluster S** **NY Hist Spills**

Relative: Higher

Actual: 30 ft.

UST:
Facility Id: 2-010790
Region: STATE
DEC Region: 2
Site Status: Active
Program Type: PBS
Expiration Date: 2012/10/23
UTM X: 589808.90541000001
UTM Y: 4508033.8974799998

Affiliation Records:

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Site Id:	86
Affiliation Type:	Mail Contact
Company Name:	JOS. H. LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	KAY C. STERN
Address1:	420 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	149
Email:	KAY@JHLOWENSTEIN.COM
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	On-Site Operator
Company Name:	JOSH LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	SEWCHAUD TIWARI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	Emergency Contact
Company Name:	JOS. H. LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	SEWCHAUD TIWARI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	Owner
Company Name:	JOS. H. LOWENSTEIN & SONS INC

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Contact Type:	VICE PRESIDENT
Contact Name:	RICHARD CAHAYLA-WYNNE
Address1:	420 MORGAN AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Equipment Records:

C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
C03 - Pipe Location - Aboveground/Underground Combination
F05 - Pipe External Protection - Jacketed
K00 - Spill Prevention - None
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Info:

Site ID:	86
Tank Number:	001
Tank ID:	26892
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/1962
Capacity Gallons:	3000
Tightness Test Method:	21
Next Test Date:	9/5/2012
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	9/5/2007
Register:	True
Modified By:	bkfalvey
Last Modified:	10/11/2007

HIST UST:

PBS Number:	2-010790
SPDES Number:	Not reported
Emergency Contact:	KAY C. STERN
Emergency Telephone:	(917) 598-5896
Operator:	JOS H LOWENSTEIN & SONS INC
Operator Telephone:	(718) 388-5410
Owner Name:	JOSEPH H LOWENSTEIN & SONS INC
Owner Address:	420 MORGAN AVE
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Telephone:	(718) 388-5410
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	JOSEPH H LOWENSTEIN & SONS INC
Mailing Address:	420 MORGAN AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11222
Mailing Contact:	KAY C. STERN
Mailing Telephone:	(718) 388-5410
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	420 MORGAN AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	MANUFACTURING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Federal ID:	Not reported
Certification Flag:	False
Certification Date:	05/08/1998
Expiration Date:	10/23/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19620501
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Fiberglass coated steel
Tank Internal:	Epoxy Liner
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	Epoxy Liner
Pipe External:	Jacketed
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Suction
Date Tested:	01/01/1998
Next Test Date:	01/01/2003
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-010790
Program Type:	PBS
UTM X:	589808.90541000001
UTM Y:	4508033.8974799998
Expiration Date:	2012/10/23

Affiliation Records:

Site Id:	86
Affiliation Type:	Mail Contact

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Company Name:	JOS. H. LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	KAY C. STERN
Address1:	420 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	149
Email:	KAY@JHLOWENSTEIN.COM
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	On-Site Operator
Company Name:	JOSH LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	SEWCHAUD TIWARI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	Emergency Contact
Company Name:	JOS. H. LOWENSTEIN & SONS INC
Contact Type:	Not reported
Contact Name:	SEWCHAUD TIWARI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Site Id:	86
Affiliation Type:	Owner
Company Name:	JOS. H. LOWENSTEIN & SONS INC
Contact Type:	VICE PRESIDENT
Contact Name:	RICHARD CAHAYLA-WYNNE

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Address1:	420 MORGAN AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 388-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	7/20/2009

Equipment Records:

C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
F01 - Pipe External Protection - Painted/Asphalt Coating
C03 - Pipe Location - Aboveground/Underground Combination
F05 - Pipe External Protection - Jacketed
K00 - Spill Prevention - None
K00 - Spill Prevention - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
E10 - Piping Secondary Containment - Impervious Underlayment
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

G01 - Tank Secondary Containment - Diking (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Info:

Tank Number:	002
Tank Id:	229570
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/31/1980
Capacity Gallons:	2700
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	7/20/2009

Tank Number:	003
Tank Id:	229571
Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/31/1980
Capacity Gallons:	3400
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	7/20/2009

Tank Number:	004
Tank Id:	229572
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/31/1980
Capacity Gallons:	4500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Last Modified: 7/20/2009

NY Spills:

Site ID:	439308
Facility Addr2:	Not reported
Facility ID:	1005972
Spill Number:	1005972
Facility Type:	ER
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Spill Date:	8/30/2010
Reported to Dept:	8/30/2010
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	9/13/2010
Remediation Phase:	0
Date Entered In Computer:	8/30/2010
Spill Record Last Update:	9/13/2010
Spiller Name:	HASSAN HUSSEIN
Spiller Company:	JOESEPH LOWESTEIN AND SONS INC
Spiller Address:	420 MORGAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11222
Spiller Company:	999
Contact Name:	HASSAN HUSSEIN
Contact Phone:	(917) 371-4064
DEC Region:	2
DER Facility ID:	394306
DEC Memo:	Material spilled is Lanolin (yellow waxy substance secreted by the sebaceous glands of wool-bearing animals. Most lanolin used by humans comes from domestic sheep) Not regulated by DEC
Remarks:	Spill is a mixture of water and lanoline. It is in a secondary containment area.

Material:

Site ID:	439308
Operable Unit ID:	1189953
Operable Unit:	01
Material ID:	2184914
Material Code:	9999
Material Name:	Other - Lanoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	Not reported

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	209408
Facility Addr2:	Not reported
Facility ID:	9911878
Spill Number:	9911878
Facility Type:	ER
SWIS:	2401
Investigator:	HRPATEL
Referred To:	MOORE
Spill Date:	1/12/2000
Reported to Dept:	1/12/2000
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/6/2007
Remediation Phase:	0
Date Entered In Computer:	1/12/2000
Spill Record Last Update:	3/6/2007
Spiller Name:	SAME
Spiller Company:	JOSEPH LOWENSTEIN & SONS
Spiller Address:	420 MORGAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11222-
Spiller Company:	001
Contact Name:	BILL MIKULA
Contact Phone:	(908) 686-5959
DEC Region:	2
DER Facility ID:	148750
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "M TIBBE" 12/05 - Additional groundwater and soil samples should be taken to determine if remediation needs to be performed. Samples taken as part of the UST Closure Report in 2000 indicate some exceedences. ~Maloney Albany review (above) - kamalone 1/29/07 - Austin - Transferred from Albany assignment to Patel in R-2 office

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

for further work - end 03/06/07-Hiralkumar Patel. owner of property: Joe Lowe Realty Attn.: Kay Stern HS&E Manager 420 Morgan Avenue Brooklyn, NY 11222 PH. (718) 388-5140 Fax (718) 387-3806 email: kay@jhlowenstein.com abstract of Site Assessment report, submitted by Hudson environmental dated 02/14/00: - closure of two USTs: 1. 3000 gal Paraffin 105 oil, 2. 2800 gal Paraffin 240 oil - USTs abandoned (11/1999) in place after one year of tightness test (11/1998) - site is used by Lowenstein to manufacture hair and fur preparatory agents (i.e. dyes, soaps, tanning oils, etc.) - Lowenstein expanded into the adjacent buildings that were formerly occupied by AN AUTOMOBILE GARAGE, paint factory and foundry. - another spill reported on 07/24/97, fuel oil release from the fill piping associated with 3000 gal #2 oil UST (spill closed) - local groundwater flow direction is assumed to be towards the southwest toward the Newtown Creek and the English Kills - groundwater was not encountered to a depth of 19 ft below the concrete floor of the facility - interior visual inspection of the tanks revealed no evidence of corrosion or breach of the bottom, top, side or end walls of the tanks - three access holes were cut along the bottom centerline fo the cleaned tanks for soil samples (T1.1, T1.2 and T1.3 from under 3000 gal UST and T2.1, T2.2 and T2.3 from under 2800 gal UST) - soil samples were collected 0.5 ft below the tanks - three soil borings (B1 through B3) were adavanced on 11/12/1999 - boring depths ranged from 8 ft bg in B1 to 19 ft bg in B3 - temporary well point was placed into the deepest soil boring B3 - no measurable groundwater was detected in the temporary well point - no floating product was observed in teh temporary well point
----------T1.1-------T1.2--------T1.3-----limit (TCLP)
ppb Benzene----------63---------52----------14
Acenaphthene----------2,100--------830--------410----------400
Benzo(a)anthracene----------100----------0.04
Benzo(b)fluoranthene----------130----------0.04
Fluorene----------2,900------1,300----------1,000
Naphthalene----------8,400------3,200--------810----------200
Phenanthrene----------6,100------2,500----------1,000
Pyrene----------1,400----------1,000
----------Total Petroleum Hydrocarbon (TPHC) ppb
T1.1----------55,000,000 T1.2----------63,000,000
T1.3----------22,000,000 T2.1----------2,400,000
T2.2----------4,200,000 T2.3----------6,500,000 Note from report: Paraffin oil is not a petroleum product as defined under NYS PBS regulations parts 612 through 614 and are exempt under NYS CBS regulations from parts 595 through 598. report mentioned of three soil borings (B1 through B3), but no indication of any soil samples from these borings. PBS #: 2-010790 discussed with DEC Austin. he mentioned that Paraffin oil is residual of petroleum product and is not regulated by PBS. he asked to compare TCLP values to "Soil cleanup objectoves to protect groundwater quality" in TAGM. if values below limit, he asked to close this case. comared all above TCLP values to groundwater quality standards. no exceedance found. case closed.

Remarks: THEY WERE DOING A IN PLACE CLOSURE ON THE SITE AND TOOK SAMPLES IN EARLY DECMEMBER AND GOT THE RESULTS BACK THIS WEEK. THE SAMPLES VOLATAILES AND SEMI VOLATAILES IN THE DIRT.

Material:
Site ID: 209408
Operable Unit ID: 1090576
Operable Unit: 01

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Material ID:	297317
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9911878
Investigator:	TIBBE
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	01/12/2000 16:30
Reported to Dept Date/Time:	01/12/00 16:30
SWIS:	61
Spiller Name:	JOSPEH H LOWENSTEIN COMP
Spiller Contact:	SAME
Spiller Phone:	Not reported
Spiller Contact:	BILL MIKULA
Spiller Phone:	(908) 686-5959
Spiller Address:	420 MORGAN AVE
Spiller City,St,Zip:	BROOKLYN, NY 11222-
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /

JOSH LOWENSTEIN & SONS INC (Continued) **U001838856**

Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/12/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/18/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Nonpetroleum/Nonhazardous
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: UNKNOWN HAZARDOUS MATERIAL
Class Type: UNKNOWN HAZARDOUS MATERIAL
Times Material Entry In File: 2093
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: THEY WERE DOING A IN PLACE CLOSURE ON THE SITE AND TOOK SAMPLES IN EARLY DECMEMBER AND GOT THE RESULTS BACK THIS WEEK. THE SAMPLES VOLATAILES AND SEMI VOLATAILES IN THE DIRT.

S427 **JOSEPH H LOWENSTEIN CO** **RCRA-LQG 1000116560**
WNW **420 MORGAN AVE.** **TRIS 11222JSHLW42**
1/8-1/4 **BROOKLYN, NY 11222** **FINDS**
0.173 mi. **MANIFEST**
913 ft. **Site 6 of 7 in cluster S**

Relative:
Higher

Actual:
30 ft.

RCRA-LQG:
Date form received by agency: 01/27/2010
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Facility address: 420 MORGAN AVENUE
BROOKLYN, NY 11222
EPA ID: NYD068296839
Mailing address: MORGAN AVENUE
BROOKLYN, NY 11222
Contact: KAY C STERN
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 388-5410

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Telephone ext.: 149
Contact email: KAY@JHLOWENSTEIN.COM
EPA Region: 02
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: JOS H LOWENSTEIN & SONS INC
Owner/operator address: MORGAN AVENUE
BROOKLYN, NY 11222
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1937
Owner/Op end date: Not reported

Owner/operator name: JOS H LOWENSTEIN & SONS, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1937
Owner/Op end date: Not reported

Owner/operator name: JOS H LOWENSTEIN & SONS INC
Owner/operator address: 420 MORGAN AVE
BROOKLYN, NY 11222
Owner/operator country: Not reported
Owner/operator telephone: (718) 388-5410
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/28/2008
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Small Quantity Generator

Date form received by agency: 02/28/2006
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Small Quantity Generator

Date form received by agency: 02/26/2004
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/27/2002
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Site name: JOS H LOWENSTEIN & SONS INC
Classification: Large Quantity Generator

Date form received by agency: 02/25/1998
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Site name: JOS.H.LOWENSTEIN & SONS, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/28/1996
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Site name: JOS H LOWENSTEIN & SONS INC
Classification: Large Quantity Generator

Date form received by agency: 12/20/1993
Facility name: JOS. H. LOWENSTEIN & SONS, INC.
Site name: JOS H LOWENSTEIN & SONS INC
Classification: Large Quantity Generator

Date form received by agency: 10/29/1993
Facility name: JOS. H. LOWENSTEIN & SONS, INC.

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Site name: JOS H LOWENSTEIN & SONS INC
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: U201
Waste name: 1,3-BENZENEDIOL

Waste code: NONE
Waste name: None

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 8453

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 701

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Waste code: U201
Waste name: 1,3-BENZENEDIOL
Amount (Lbs): 701

Facility Has Received Notices of Violations:
Regulation violated: SR - 373-3.2(g)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 374-3.2(d)(4)(i),(e)(5)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.4(c)(3)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(ii)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(i)(b)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.9(f)
Area of violation: Generators - General
Date violation determined: 12/29/2005
Date achieved compliance: 06/08/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/24/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.9(f)
Area of violation: Generators - General
Date violation determined: 05/22/2002
Date achieved compliance: 06/27/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/31/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-1.1(d)(1)(iii)(c)(3)
Area of violation: Generators - General
Date violation determined: 05/22/2002
Date achieved compliance: 06/27/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/31/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(ii)
Area of violation: Generators - General
Date violation determined: 05/22/2002
Date achieved compliance: 06/27/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/31/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.3(g)(1)(iv)
Area of violation: Generators - General
Date violation determined: 05/22/2002
Date achieved compliance: 06/27/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/31/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 374.2(d),(e)
Area of violation: Generators - General
Date violation determined: 05/22/2002
Date achieved compliance: 06/27/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/31/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 120 ltr.
Area of violation: Generators - General
Date violation determined: 08/24/1999
Date achieved compliance: 08/24/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/24/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/20/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/29/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/08/2006
Evaluation lead agency: State

Evaluation date: 05/22/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/27/2002
Evaluation lead agency: State

Evaluation date: 07/21/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/24/1999
Evaluation lead agency: EPA

Evaluation date: 08/09/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/30/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000323392

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NY MANIFEST:

EPA ID:	NYD068296839
Country:	USA
Mailing Name:	JOSEPH H LOWENSTEIN & SONS
Mailing Contact:	ABDUL K. KASIM
Mailing Address:	420 MORGAN AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11222
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-388-5400

Document ID:	MDC1029603
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Generator Ship Date:	09/11/2003
Trans1 Recv Date:	09/11/2003
Trans2 Recv Date:	09/15/2003
TSD Site Recv Date:	09/21/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160007
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00855
Units:	P - Pounds
Number of Containers:	011
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00785
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1029744
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	10/09/2003
Trans1 Recv Date:	10/09/2003
Trans2 Recv Date:	10/10/2003
TSD Site Recv Date:	10/13/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH162007
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00874
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	01247
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	03

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Document ID:	MDC1026274
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	04/10/2003
Trans1 Recv Date:	04/10/2003
Trans2 Recv Date:	04/10/2003
TSD Site Recv Date:	04/16/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH162007
Waste Code:	U201 - RESORCINOL
Quantity:	00283
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1029827
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	10/23/2003
Trans1 Recv Date:	10/23/2003
Trans2 Recv Date:	10/24/2003
TSD Site Recv Date:	10/24/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02655
Units:	P - Pounds
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	02645
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1029833
Manifest Status:	Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	10/24/2003
Trans1 Recv Date:	10/24/2003
Trans2 Recv Date:	10/27/2003
TSD Site Recv Date:	10/28/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	U201 - RESORCINOL
Quantity:	00406
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U201 - RESORCINOL
Quantity:	00212
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00615
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1029896
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	11/06/2003
Trans1 Recv Date:	11/06/2003
Trans2 Recv Date:	11/07/2003
TSD Site Recv Date:	11/10/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00819
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Year: 03

Document ID: MDC1029959
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 11/20/2003
Trans1 Recv Date: 11/20/2003
Trans2 Recv Date: 11/24/2003
TSD Site Recv Date: 11/25/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068296839
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160
Waste Code: U201 - RESORCINOL
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D007 - CHROMIUM 5.0 MG/L TCLP
Quantity: 00400
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03

Document ID: MDC1030026
Manifest Status: Not reported
Trans1 State ID: MAD039322250
Trans2 State ID: NJD986607380
Generator Ship Date: 02/27/2003
Trans1 Recv Date: 02/27/2003
Trans2 Recv Date: 03/03/2003
TSD Site Recv Date: 03/04/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068296839
Trans1 EPA ID: MDD980555189
Trans2 EPA ID: Not reported
TSDF ID: HWH160004
Waste Code: U201 - RESORCINOL
Quantity: 00848
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 03

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Document ID:	MDC1030155
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	03/13/2003
Trans1 Recv Date:	03/13/2003
Trans2 Recv Date:	03/17/2003
TSD Site Recv Date:	03/19/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160004
Waste Code:	U201 - RESORCINOL
Quantity:	02300
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00412
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1030416
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986607380
Generator Ship Date:	06/19/2003
Trans1 Recv Date:	06/19/2003
Trans2 Recv Date:	06/20/2003
TSD Site Recv Date:	06/24/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01824
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00510
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC1080167
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	NJD986603380
Generator Ship Date:	07/17/2003
Trans1 Recv Date:	07/17/2003
Trans2 Recv Date:	07/21/2003
TSD Site Recv Date:	07/22/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980555189
Trans2 EPA ID:	Not reported
TSDF ID:	HWH160
Waste Code:	U201 - RESORCINOL
Quantity:	00300
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03

Document ID:	MDC0525356
Manifest Status:	Completed copy
Trans1 State ID:	014294A04
Trans2 State ID:	Not reported
Generator Ship Date:	940811
Trans1 Recv Date:	940811
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940812
Part A Recv Date:	940819
Part B Recv Date:	940831
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	NJD071629976
Trans2 EPA ID:	Not reported
TSDF ID:	MDD980554653
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00050
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00030
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	100

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Year:	94
Document ID:	MDC0797375
Manifest Status:	Not reported
Trans1 State ID:	SCD987574647
Trans2 State ID:	NJD054126164
Generator Ship Date:	03/18/1999
Trans1 Recv Date:	03/18/1999
Trans2 Recv Date:	03/19/1999
TSD Site Recv Date:	03/25/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U201 - RESORCINOL
Quantity:	00100
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U201 - RESORCINOL
Quantity:	01800
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99
Document ID:	MDC0797375
Manifest Status:	Not reported
Trans1 State ID:	SCD987574647
Trans2 State ID:	NJD054126164
Generator Ship Date:	03/18/1999
Trans1 Recv Date:	03/18/1999
Trans2 Recv Date:	03/19/1999
TSD Site Recv Date:	03/25/1999
Part A Recv Date:	Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U201 - RESORCINOL
Quantity:	00900
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D004 - ARSENIC 5.0 MG/L TCLP
Quantity:	00075
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Document ID:	MDC0797375
Manifest Status:	Not reported
Trans1 State ID:	SCD987574647
Trans2 State ID:	NJD054126164
Generator Ship Date:	03/18/1999
Trans1 Recv Date:	03/18/1999
Trans2 Recv Date:	03/19/1999
TSD Site Recv Date:	03/25/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	F003 - UNKNOWN
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Document ID:	MDC0797375
Manifest Status:	Not reported
Trans1 State ID:	SCD987574647
Trans2 State ID:	NJD054126164
Generator Ship Date:	03/18/1999
Trans1 Recv Date:	03/18/1999
Trans2 Recv Date:	03/19/1999
TSD Site Recv Date:	03/25/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	F003 - UNKNOWN
Quantity:	00150
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00025
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Document ID:	MDC0806548
Manifest Status:	Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Trans1 State ID:	NJD071629976
Trans2 State ID:	Not reported
Generator Ship Date:	10/15/1999
Trans1 Recv Date:	10/15/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/18/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH14299A
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00900
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F003 - UNKNOWN
Quantity:	00100
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00005
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	MDC0799238
Manifest Status:	Not reported
Trans1 State ID:	SCD987574647
Trans2 State ID:	NJD054126164
Generator Ship Date:	10/22/1999
Trans1 Recv Date:	10/22/1999
Trans2 Recv Date:	10/25/1999
TSD Site Recv Date:	10/29/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00040
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Year: 99

Document ID: MDC0806416
Manifest Status: Not reported
Trans1 State ID: SCD987574647
Trans2 State ID: NJD054126164
Generator Ship Date: 06/24/1999
Trans1 Recv Date: 06/24/1999
Trans2 Recv Date: 06/25/1999
TSD Site Recv Date: 06/29/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD068296839
Trans1 EPA ID: MDD980554653
Trans2 EPA ID: Not reported
TSDF ID: HWH32399A
Waste Code: D007 - CHROMIUM 5.0 MG/L TCLP
Quantity: 01000
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: U201 - RESORCINOL
Quantity: 00100
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: U201 - RESORCINOL
Quantity: 01800
Units: P - Pounds
Number of Containers: 009
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00600
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: MDC0806416
Manifest Status: Not reported
Trans1 State ID: SCD987574647
Trans2 State ID: NJD054126164
Generator Ship Date: 06/24/1999
Trans1 Recv Date: 06/24/1999
Trans2 Recv Date: 06/25/1999
TSD Site Recv Date: 06/29/1999
Part A Recv Date: Not reported

JOSEPH H LOWENSTEIN CO (Continued) **1000116560**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD068296839
Trans1 EPA ID:	MDD980554653
Trans2 EPA ID:	Not reported
TSDF ID:	HWH32399A
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Quantity:	00040
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	01.00
Waste Code:	F003 - UNKNOWN
Quantity:	00200
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Click this hyperlink while viewing on your computer to access
188 additional NY_MANIFEST: record(s) in the EDR Site Report.

T428 **CON EDISON - MANHOLE 15338** **RCRA-LQG** **1014396335**
WSW **993 METROPOLITAN AVE** **NYP004185989**
1/8-1/4 **BROOKLYN, NY 11211**
0.184 mi.
970 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
19 ft.

RCRA-LQG:

Date form received by agency:	03/23/2010
Facility name:	CON EDISON - MANHOLE 15338
Facility address:	993 METROPOLITAN AVE BROOKLYN, NY 11211
EPA ID:	NYP004185989
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLYN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

CON EDISON - MANHOLE 15338 (Continued) **1014396335**

Owner/Operator Summary:
- Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
- Owner/operator address: 4 IRVING PLACE
  NEW YORK, NY 10003
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 07/23/2009
- Owner/Op end date: Not reported

- Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
- Owner/operator address: 4 IRVING PLACE
  NEW YORK, NY 10003
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 07/23/2009
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 07/23/2009
- Facility name: CON EDISON - MANHOLE 15338
- Site name: CON EDISON
- Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
- Waste code: D008
- Waste name: LEAD

- Violation Status: No violations found

T429
WSW
1/8-1/4
0.184 mi.
970 ft.

CONSOLIDATED EDISON
993 METROPOLITAN AVE
BROOKLYN, NY 11211

Site 2 of 2 in cluster T

MANIFEST **S110046084**
N/A

Relative:
Higher

Actual:
19 ft.

NY MANIFEST:

EPA ID:	NYP004185989
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-05
Trans1 Recv Date:	2009-08-05
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004185989
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	700.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894842GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported

CONSOLIDATED EDISON (Continued) **S110046084**

Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-05
Trans1 Recv Date:	2009-08-05
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-06
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004185989
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	700.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894842GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

S430 **ABANDONED BLDG** **LTANKS** **S105996244**
WNW **430 MORGAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.186 mi.
984 ft. **Site 7 of 7 in cluster S**

Relative:
Higher

Actual:
32 ft.

LTANKS:

Site ID:	331139
Spill No:	0203790
Spill Date:	7/10/2002
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	6/4/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	7/10/2002
CID:	390
Water Affected:	Not reported
Spill Notifier:	Tank Tester

ABANDONED BLDG (Continued) **S105996244**

Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/10/2002
Spill Record Last Update:	6/4/2003
Spiller Name:	MATT
Spiller Company:	ABANDONED BLDG .,.,
Spiller Address:	430 MORGAN AV
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	MATT
Spiller Phone:	(631) 851-1600
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	266314
Remarks:	TANK FAILED TEST - NO PRODUCT SPILLAGE

Material:

Site ID:	331139
Operable Unit ID:	854918
Operable Unit:	01
Material ID:	521602
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	331139
Spill Tank Test:	1527269
Tank Number:	001
Tank Size:	1080
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

U431 **1251 METROPOLITAN AVE. /** **LTANKS** **S100143491**
SE **1251 METROPOLITAN AVE.** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.191 mi.
1008 ft. **Site 1 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Site ID:	110767
Spill No:	8607890
Spill Date:	3/24/1987
Spill Cause:	Tank Test Failure

1251 METROPOLITAN AVE. / (Continued) **S100143491**

Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Spill Closed Dt:	3/25/1987
Facility Addr2:	Not reported
Cleanup Ceased:	3/25/1987
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	3/25/1987
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	4/2/1987
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	SUNSHINE BISQUIT
Spiller Address:	1251 METROPOLITAN AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	96975
Remarks:	2000 GALLONS (NO-LEAD) GASOLINE UNDERGROUND TANK SYSTEM FAILED PETRO TITE @ -.107 G/HR. POSSIBLE CAUSE EXTERNAL TEMPERATURE.CONTRACTOR ADVIS

Material:

Site ID:	110767
Operable Unit ID:	905528
Operable Unit:	01
Material ID:	473380
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	110767
Spill Tank Test:	1530658
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported

1251 METROPOLITAN AVE. / (Continued) **S100143491**

Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 8607890
Spill Date: 03/24/1987
Spill Time: 14:20
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 03/25/87
Cleanup Ceased: 03/25/87
Cleanup Meets Standard: True
Investigator: Not reported
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/25/87
Reported to Department Time: 09:47
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SUNSHINE BISQUIT
Spiller Address: 1251 METROPOLITAN AVE.
Spiller City,St,Zip: BROOKLYN, NEW YORK
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 456-1220
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 04/02/87
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported

1251 METROPOLITAN AVE. / (Continued) **S100143491**

Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: 2000 GALLONS NO-LEAD) GASOLINE UNDERGROUND TANK SYSTEM FAILED PETRO TITE @ -.107 G/HR. POSSIBLE CAUSE EXTERNAL TEMPERATURE.CONTRACTOR ADVIS

U432 **SUNSHINE BISCUITS INC** **UST 1000788133**
SE **1251 METROPOLITAN AVE** **HIST UST N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.191 mi.
1008 ft. **Site 2 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

UST:
Facility Id: 2-245070
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590657.22866999998
UTM Y: 4507553.6209800001

Affiliation Records:
Site Id: 9517
Affiliation Type: On-Site Operator
Company Name: SUNSHINE BISCUITS INC
Contact Type: Not reported
Contact Name: SUNSHINE BISCUITS INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 456-1220
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 9517
Affiliation Type: Owner

SUNSHINE BISCUITS INC (Continued) **1000788133**

Company Name:	SUNSHINE BISCUITS INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	100 WOODBRIDGE CENTER DR
Address2:	Not reported
City:	WOODBRIDGE
State:	NJ
Zip Code:	07095
Country Code:	001
Phone:	(201) 855-4000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	9517
Affiliation Type:	Mail Contact
Company Name:	SUNSHINE BISCUITS INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	100 WOODBRIDGE CENTER DR
Address2:	Not reported
City:	WOODBRIDGE
State:	NJ
Zip Code:	07095
Country Code:	001
Phone:	(201) 855-4000
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	9517
Affiliation Type:	Emergency Contact
Company Name:	SUNSHINE BISCUITS INC
Contact Type:	Not reported
Contact Name:	JACQUES MICHEL EYMA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 723-4098
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)

SUNSHINE BISCUITS INC (Continued) **1000788133**

C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	9517
Tank Number:	001
Tank ID:	40471
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1979
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	9517
Tank Number:	002
Tank ID:	40472
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1979
Capacity Gallons:	2000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-245070
SPDES Number:	Not reported
Emergency Contact:	JACQUES MICHEL EYMA
Emergency Telephone:	(718) 723-4098

SUNSHINE BISCUITS INC (Continued) **1000788133**

Operator:	SUNSHINE BISCUITS INC
Operator Telephone:	(718) 456-1220
Owner Name:	SUNSHINE BISCUITS INC
Owner Address:	100 WOODBRIDGE CENTER DR
Owner City,St,Zip:	WOODBRIDGE, NJ 07095
Owner Telephone:	(201) 855-4000
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	SUNSHINE BISCUITS INC
Mailing Address:	100 WOODBRIDGE CENTER DR
Mailing Address 2:	Not reported
Mailing City,St,Zip:	WOODBRIDGE, NJ 07095
Mailing Contact:	Not reported
Mailing Telephone:	(201) 855-4000
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1251 METROPOLITAN AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/07/1987
Expiration Date:	07/07/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19791201
Capacity (gals):	4000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	None

SUNSHINE BISCUITS INC (Continued) **1000788133**

Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19791201
Capacity (gals):	2000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

U433 **SUNSHINE BISCUITS INCORPORATED** **RCRA-NonGen** **1000381578**
SE **1251 METROPOLITAN AVENUE** **FINDS** **NYD078159936**
1/8-1/4 **BROOKLYN, NY 11237** **MANIFEST**
0.191 mi.
1008 ft. **Site 3 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	SUNSHINE BISCUITS
Facility address:	1251 METROPOLITAN AVE MASPETH, NY 11378
EPA ID:	NYD078159936
Mailing address:	METROPOLITAN AVE MASPETH, NY 11378
Contact:	Not reported
Contact address:	METROPOLITAN AVE MASPETH, NY 11378
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported

SUNSHINE BISCUITS INCORPORATED (Continued) **1000381578**

EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: SUNSHINE BISCUITS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: SUNSHINE BISCUITS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SUNSHINE BISCUITS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: SUNSHINE BISCUITS
Classification: Not a generator, verified

Date form received by agency: 05/30/1989
Facility name: SUNSHINE BISCUITS
Classification: Small Quantity Generator

Violation Status: No violations found

SUNSHINE BISCUITS INCORPORATED (Continued) **1000381578**

FINDS:

Registry ID: 110001572236

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD078159936
Country:	USA
Mailing Name:	SUNSHINE BISCUITS
Mailing Contact:	SUNSHINE BISCUITS
Mailing Address:	1251 METROPOLITAN AVE
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11378
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-349-0890

Document ID:	NYA8316459
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890724
Trans1 Recv Date:	890724
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890726
Part A Recv Date:	890802
Part B Recv Date:	890802
Generator EPA ID:	NYD078159936
Trans1 EPA ID:	NYD006801245
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00450
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

U434 **ALJO AUTO ELECTRIC CORP** **RCRA-NonGen** **1000912276**
SE **1250 METROPOLITAN AVE** **FINDS** **NY0000575225**
1/8-1/4 **BROOKLYN, NY 11237**
0.197 mi.
1041 ft. **Site 4 of 12 in cluster U**

Relative:
Higher

Actual:
13 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	ALJO AUTO ELECTRIC CORP
Facility address:	1250 METROPOLITAN AVE RIGHT BLDG BROOKLYN, NY 112371103
EPA ID:	NY0000575225
Mailing address:	PO BOX 704 BROOKLYN, NY 11237
Contact:	Not reported
Contact address:	PO BOX 704 BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ANGELO BORGIA
Owner/operator address:	PO BOX 704 BROOKLYN, NY 11237
Owner/operator country:	US
Owner/operator telephone:	(718) 417-6771
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ANGELO BORGIA
Owner/operator address:	PO BOX 704 BROOKLYN, NY 11237
Owner/operator country:	US
Owner/operator telephone:	(718) 417-6771
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

ALJO AUTO ELECTRIC CORP (Continued) **1000912276**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ALJO AUTO ELECTRIC CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ALJO AUTO ELECTRIC CORP
Classification: Not a generator, verified

Date form received by agency: 08/11/1994
Facility name: ALJO AUTO ELECTRIC CORP
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009462465

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

U435 **CONSOLIDATED PACKAGING GROUP** **RCRA-SQG** **1000245333**
SE **1250 METROPOLITAN AVE** **FINDS** **NYD986892412**
1/8-1/4 **BROOKLYN, NY 11237** **MANIFEST**
0.197 mi. **MANIFEST**
1041 ft. **Site 5 of 12 in cluster U**

Relative: Higher

Actual: 13 ft.

RCRA-SQG:
Date form received by agency: 03/07/2008
Facility name: CONSOLIDATED PACKAGING GROUP
Facility address: 1250 METROPOLITAN AV
BROOKLYN, NY 11237
EPA ID: NYD986892412
Mailing address: BERGEN TPK
RIDGEFIELD PARK, NJ 07660
Contact: GARY KAUFMAN
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (201) 440-4240
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED PACKAGING
Owner/operator address:	BERGEN TRNDK
	RIDGEFIELD PARK, NJ 07660
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/31/1979
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED PACKAGING
Owner/operator address:	BERGEN TRNDK
	RIDGEFIELD PARK, NJ 07660
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/31/1979
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2007
Facility name:	CONSOLIDATED PACKAGING GROUP
Site name:	CONSOLIDATED PACKAGING GROUP LLC
Classification:	Small Quantity Generator

Date form received by agency:	01/01/2006
Facility name:	CONSOLIDATED PACKAGING GROUP
Site name:	CONSOLIDATED PACKAGING GROUP LLC
Classification:	Small Quantity Generator

Date form received by agency:	12/16/2004
Facility name:	CONSOLIDATED PACKAGING GROUP
Site name:	CONSOLIDATED PACKAGING GROUP LLC

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Classification: Large Quantity Generator

Date form received by agency: 01/21/2004
Facility name: CONSOLIDATED PACKAGING GROUP
Site name: RELIABLE POLY PACK: CO
Classification: Small Quantity Generator

Date form received by agency: 02/19/2002
Facility name: CONSOLIDATED PACKAGING GROUP
Site name: RELIABLE POLY RACK
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001
Facility name: CONSOLIDATED PACKAGING GROUP
Site name: RELIABLE POY PACK CO
Classification: Large Quantity Generator

Date form received by agency: 03/08/1990
Facility name: CONSOLIDATED PACKAGING GROUP
Site name: RELIABLE POLY PACKAGING CO INC
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010
Enforcement lead agency: State
Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Enforcement lead agency: State
Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010
Enforcement lead agency: State
Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-General Facility Standards
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010
Enforcement lead agency: State
Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Container Use and Management
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010
Enforcement lead agency: State
Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 12/19/2006
Date achieved compliance: 04/07/2010
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 01/18/2008
Enf. disposition status: Dropped
Enf. disp. status date: 04/07/2010
Enforcement lead agency: State

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Proposed penalty amount: 36370
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/06/2005
Date achieved compliance: 02/20/2006
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/20/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/07/2010
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Manifest
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: State Statute or Regulation
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 08/16/2007
Evaluation: SIGNIFICANT NON-COMPLIER

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Area of violation: Generators - Pre-transport
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Container Use and Management
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/19/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/07/2010
Evaluation lead agency: State

Evaluation date: 12/06/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/20/2006
Evaluation lead agency: EPA

Evaluation date: 11/10/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

FINDS:

Registry ID: 110001596595

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NJ MANIFEST:

Manifest Code:	NJA5042852
EPA ID:	NYD986892412
Date Shipped:	20050815
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050815
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050815
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	09120521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000651454SKS
EPA ID:	NYD986892412
Date Shipped:	12/4/200
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/4/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/4/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: 000651382SKS
EPA ID: NYD986892412
Date Shipped: 11/19/20
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 11/19/
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 11/19/
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: 000578838SKS
EPA ID: NYD986892412
Date Shipped: 9/17/200
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	9/17/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	9/17/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	F003
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	16000
Unit:	P
Hand Code:	H02

Manifest Code:	004257981JJK
EPA ID:	NYD986892412
Date Shipped:	8/19/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD980772768
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	8/19/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	8/19/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D001
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 5
Unit: P
Hand Code: H141

Manifest Code: 000292262SKS
EPA ID: NYD986892412
Date Shipped: 7/17/200
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 7/17/2
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 7/17/2
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: F003
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 15000
Unit: P
Hand Code: H02

Manifest Code: 000224455SKS
EPA ID: NYD986892412
Date Shipped: 5/30/200
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	5/30/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	5/30/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	F003
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	16000
Unit:	P
Hand Code:	H02

Manifest Code:	000189946CEX
EPA ID:	NYD986892412
Date Shipped:	4/11/200
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	4/11/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	4/11/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: F003
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 16000
Unit: P
Hand Code: H02

Manifest Code: NJA5062356
EPA ID: NYD986892412
Date Shipped: 20040803
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 040803
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 040803
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 08300425
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5083330
EPA ID: NYD986892412
Date Shipped: 20040205
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	040205
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	040205
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03170421
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5038388
EPA ID:	NYD986892412
Date Shipped:	20040422
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	040422
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	040422
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: 05100422
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA4026918
EPA ID: NYD986892412
Date Shipped: 20041230
TSDF EPA ID: NJD002182897
Transporter EPA ID: NJD071629976
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 041230
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 041230
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 01310522
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: 000189538CEX
EPA ID: NYD986892412
Date Shipped: 2/7/2007
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	2/7/20
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	2/7/20
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D001
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	16000
Unit:	P
Hand Code:	H06

Manifest Code:	000679165SKS
EPA ID:	NYD986892412
Date Shipped:	1/7/2008
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	1/7/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	1/7/2008
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: F003
Manifest Year: 2008 New Jersey Manifest Data
Quantity: 15000
Unit: P
Hand Code: H020

Manifest Code: NJA5297831
EPA ID: NYD986892412
Date Shipped: 20060828
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 060828
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 060828
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 09270621
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5112384
EPA ID: NYD986892412
Date Shipped: 20060509
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	060509
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	060509
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	06210621
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5112622
EPA ID:	NYD986892412
Date Shipped:	20050523
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050523
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050523
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Data Entry Number: 06240521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5114181
EPA ID: NYD986892412
Date Shipped: 20050206
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050206
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050206
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03170621
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5114254
EPA ID: NYD986892412
Date Shipped: 20051123
TSDF EPA ID: NJD002182897
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	051123
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	051123
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02140621
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

NY MANIFEST:

EPA ID:	NYD986892412
Country:	USA
Mailing Name:	CONSOLIDATED PACKAGING
Mailing Contact:	CONSOLIDATED PACKAGING
Mailing Address:	1250 METROPOLITAN AVENUE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11237
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-417-3434

Document ID:	NYC4356270
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	MOD095038998
Generator Ship Date:	01/14/2003
Trans1 Recv Date:	01/14/2003
Trans2 Recv Date:	01/21/2003
TSD Site Recv Date:	01/27/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Trans1 EPA ID: KYD053348108
Trans2 EPA ID: Not reported
TSDF ID: NJDEP0869
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 05000
Units: P - Pounds
Number of Containers: 016
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: NJA4063467
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: Not reported
Generator Ship Date: 08/05/2003
Trans1 Recv Date: 08/05/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/05/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986892412
Trans1 EPA ID: NJD002182897
Trans2 EPA ID: Not reported
TSDF ID: 08690
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01100
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 020
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 03

Document ID: NJA1966844
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: 08690
Generator Ship Date: 940820
Trans1 Recv Date: 940820
Trans2 Recv Date: 940829
TSD Site Recv Date: 940829
Part A Recv Date: 940902
Part B Recv Date: 940912
Generator EPA ID: NYD986892412
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: ILD984908202
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01278
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Specific Gravity: 100
Year: 94

Document ID: NJA1954917
Manifest Status: Completed copy
Trans1 State ID: NJDEPE086
Trans2 State ID: Not reported
Generator Ship Date: 941104
Trans1 Recv Date: 941104
Trans2 Recv Date: Not reported
TSD Site Recv Date: 941108
Part A Recv Date: 941115
Part B Recv Date: 941117
Generator EPA ID: NYD986892412
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01278
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

Document ID: NJA2800751
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: NJD071629976
Generator Ship Date: 10/07/1999
Trans1 Recv Date: 10/07/1999
Trans2 Recv Date: 10/14/1999
TSD Site Recv Date: 10/18/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986892412
Trans1 EPA ID: NJD002182897
Trans2 EPA ID: Not reported
TSDF ID: 08690
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 03408
Units: P - Pounds
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NJA3013645
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: SCD987574647
Generator Ship Date: 07/14/1999

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Trans1 Recv Date:	07/14/1999
Trans2 Recv Date:	07/21/1999
TSD Site Recv Date:	07/23/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	NJD002182897
Trans2 EPA ID:	Not reported
TSDF ID:	08690
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	04260
Units:	P - Pounds
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	99

Document ID:	NJA2165900
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	950602
Trans1 Recv Date:	950602
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950606
Part A Recv Date:	950608
Part B Recv Date:	950622
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00426
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA1925119
Manifest Status:	Completed copy
Trans1 State ID:	DL8162
Trans2 State ID:	Not reported
Generator Ship Date:	940708
Trans1 Recv Date:	940708
Trans2 Recv Date:	940712
TSD Site Recv Date:	940712
Part A Recv Date:	940719
Part B Recv Date:	940722
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	NYD980769947
TSDF ID:	NJD002182897

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01278
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1838273
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	940727
Trans1 Recv Date:	940727
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940729
Part A Recv Date:	940804
Part B Recv Date:	940811
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01278
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1962395
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	941007
Trans1 Recv Date:	941007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941010
Part A Recv Date:	941019
Part B Recv Date:	941021
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	02130
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Document ID:	NJA1925754
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	941206
Trans1 Recv Date:	941206
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941208
Part A Recv Date:	941214
Part B Recv Date:	941220
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01704
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NJA1932386
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	S10342
Generator Ship Date:	950317
Trans1 Recv Date:	950319
Trans2 Recv Date:	950321
TSD Site Recv Date:	950321
Part A Recv Date:	950323
Part B Recv Date:	950403
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	NJD000813477
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00426
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2054298
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPE086
Trans2 State ID:	Not reported
Generator Ship Date:	950208
Trans1 Recv Date:	950208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950209
Part A Recv Date:	950217

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Part B Recv Date:	950222
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00426
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2113611
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950517
Trans1 Recv Date:	950517
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950519
Part A Recv Date:	950526
Part B Recv Date:	950602
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00426
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	11/19/2007
Trans1 Recv Date:	11/19/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/19/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	18500
Units:	P - Pounds
Number of Containers:	74

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000651382SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	12/4/2007
Trans1 Recv Date:	12/4/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/4/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	1890
Units:	P - Pounds
Number of Containers:	126
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000651454SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Trans2 State ID:	Not reported
Generator Ship Date:	2/7/2007
Trans1 Recv Date:	2/7/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2/7/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	16600
Units:	P - Pounds
Number of Containers:	64
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000189538CEX
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	4/11/2007
Trans1 Recv Date:	4/11/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	4/11/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	16000
Units:	P - Pounds
Number of Containers:	64
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000189946CEX
Import Ind:	N

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	5/30/2007
Trans1 Recv Date:	5/30/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	5/30/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	16000
Units:	P - Pounds
Number of Containers:	64
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000224455SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	7/17/2007
Trans1 Recv Date:	7/17/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	7/17/2007
Part A Recv Date:	Not reported

CONSOLIDATED PACKAGING GROUP (Continued) **1000245333**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD986892412
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	Not reported
Quantity:	15000
Units:	P - Pounds
Number of Containers:	60
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000292262SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Click this hyperlink while viewing on your computer to access
102 additional NY_MANIFEST: record(s) in the EDR Site Report.

V436 **WASTE MANAGEMENT NY (VARICK 1)** **SWF/LF** **S102632777**
SSE **215 VARICK AVENUE** **FINANCIAL ASSURANCE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.200 mi.
1058 ft. **Site 1 of 5 in cluster V**

Relative:
Higher

Actual:
11 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Waste Management of NY
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7185335255
Contact Name:	Tara Hemmer
Contact Address:	215 Varick Ave.
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY -11237
Contact Email:	Not reported
Contact Phone:	7185335308
Activity Desc:	Transfer station - regulated
Activity Number:	24T66
Active:	Yes
East Coordinate:	590479
North Coordinate:	4507435
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data

WASTE MANAGEMENT NY (VARICK 1) (Continued) **S102632777**

Regulatory Status: Permit
Waste Type: Yard Waste;MSW (Residential/Institutional & Commercial)
Authorization #: Not reported
Authorization Date: 12/2/2002
Expiration Date: 12/2/2007

NY FINANCIAL ASSURANCE:
Owner Name: Waste Management of NY
Region: 2
Estimate Type: Closure
Estimate Amount: 705500
Estimate Date: 3/1/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 729170
Financial Institution: American Home Assurance
Issue Date: Not reported
Expiration Date: Not reported
Activity Number: 24T66
Activity Description: Transfer station - regulated

V437 **WASTE MANAGEMENT OF NEW YORK, LLC** **AST** **A100175767**
SSE **215 VARICK AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11222**
0.200 mi.
1058 ft. **Site 2 of 5 in cluster V**

Relative:
Higher

Actual:
11 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-605532
Program Type: PBS
UTM X: 590468.48710000003
UTM Y: 4507461.5469500003
Expiration Date: 2016/03/29

Affiliation Records:
Site Id: 27399
Affiliation Type: Owner
Company Name: WASTE MANAGEMENT OF NEW YORK LLC
Contact Type: ENVIRONMENTAL MANAGER
Contact Name: JAY KAPLAN
Address1: 123 VARICK AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 533-5310
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 2/27/2006

Site Id: 27399
Affiliation Type: Mail Contact
Company Name: WASTE MANAGEMENT OF NEW YORK, LLC

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
Phone Ext:	Not reported
Email:	JKAPLAN2@WM.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/12/2009

Site Id:	27399
Affiliation Type:	On-Site Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK, LLC
Contact Type:	Not reported
Contact Name:	PETER DELUCA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 533-5266
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	11/4/2009

Site Id:	27399
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 773-1814
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/27/2006

Equipment Records:

G01 - Tank Secondary Containment - Diking (Aboveground)
L09 - Piping Leak Detection - Exempt Suction Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D11 - Pipe Type - Flexible Piping
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
I00 - Overfill - None
E01 - Piping Secondary Containment - Diking (Aboveground)
E01 - Piping Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
E01 - Piping Secondary Containment - Diking (Aboveground)
L09 - Piping Leak Detection - Exempt Suction Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
D11 - Pipe Type - Flexible Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K99 - Spill Prevention - Other
D00 - Pipe Type - No Piping
J00 - Dispenser - None
K99 - Spill Prevention - Other
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating
K01 - Spill Prevention - Catch Basin
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
G01 - Tank Secondary Containment - Diking (Aboveground)
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
F01 - Pipe External Protection - Painted/Asphalt Coating
C01 - Pipe Location - Aboveground

Tank Info:

Tank Number:	001
Tank Id:	60012
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	1/1/1990
Register:	True
Modified By:	MSBAPTIS

WASTE MANAGEMENT OF NEW YORK, LLC (Continued) **A100175767**

Last Modified:	1/13/2011
Tank Number:	002
Tank Id:	60013
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	2/27/2006
Tank Number:	003
Tank Id:	60014
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/13/2011
Tank Number:	004
Tank Id:	231439
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/15/1997
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/13/2011

V438 **WASTE MANAGEMENT OF NY LLC** **RCRA-NonGen** **1008374579**
SSE **221 VARICK AVE** **MANIFEST** **NYR000133298**
1/8-1/4 **BROOKLYN, NY 11237**
0.200 mi.
1058 ft. **Site 3 of 5 in cluster V**

Relative:
Higher

Actual:
11 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	WASTE MANAGEMENT OF NY LLC
Facility address:	221 VARICK AVE BROOKLYN, NY 112371026
EPA ID:	NYR000133298
Mailing address:	VARICK AVE BROOKLYN, NY 11237
Contact:	JAY KAPLAN
Contact address:	VARICK AVE BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	(718) 533-5310
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	WASTE MANAGEMENT OF NY LLC
Owner/operator address:	VARICK AVE BROOKLYN, NY 11237
Owner/operator country:	US
Owner/operator telephone:	(718) 533-5310
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/20/2005
Owner/Op end date:	Not reported

Owner/operator name:	WASTE MANAGEMENT OF NY LLC
Owner/operator address:	VARICK AVE BROOKLYN, NY 11237
Owner/operator country:	US
Owner/operator telephone:	(718) 533-5310
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/20/2005
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: WASTE MANAGEMENT OF NY LLC
Classification: Not a generator, verified

Date form received by agency: 07/22/2005
Facility name: WASTE MANAGEMENT OF NY LLC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 07/08/2009
Date achieved compliance: 08/17/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/26/2009
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 08/26/2009
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/08/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - General
Date achieved compliance: 08/17/2009
Evaluation lead agency: State

Evaluation date: 09/22/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

NY MANIFEST:
EPA ID: NYR000133298
Country: USA
Mailing Name: WASTE MANAGEMENT OF NY LLC
Mailing Contact: WASTE MANAGEMENT OF NY LLC
Mailing Address: 221 VARICK AVE
Mailing Address 2: Not reported
Mailing City: BROOKLYN
Mailing State: NY
Mailing Zip: 11237
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-533-5310

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD986607380
Trans2 State ID:	Not reported
Generator Ship Date:	5/11/2007
Trans1 Recv Date:	5/11/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	5/17/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000133298
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD067098822
Waste Code:	Not reported
Quantity:	120
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000186452JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD986607380
Trans2 State ID:	Not reported
Generator Ship Date:	2007-05-11
Trans1 Recv Date:	2007-05-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-05-17
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000133298
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD067098822
Waste Code:	Not reported
Quantity:	120.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0

WASTE MANAGEMENT OF NY LLC (Continued) **1008374579**

Year:	07
Manifest Tracking Num:	000186452JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

V439 **WASTE MANAGEMENT OF NEW YORK/WM DIV. NY** **AST** **U003396745**
SSE **221 VARICK AVENUE** **HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.200 mi.
1058 ft. **Site 4 of 5 in cluster V**

Relative:
Higher

Actual:
11 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Administratively Closed
Facility Id:	2-602605
Program Type:	PBS
UTM X:	590461.61734
UTM Y:	4507480.6563600004
Expiration Date:	N/A

Affiliation Records:

Site Id:	24562
Affiliation Type:	Owner
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 386-7900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24562
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Zip Code:	11237
Country Code:	001
Phone:	(718) 386-7900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24562
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-8011
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24562
Affiliation Type:	On-Site Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Contact Type:	Not reported
Contact Name:	ANTHONY LOMANGINO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-8011
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

I00 - Overfill - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F99 - Pipe External Protection - Other
A00 - Tank Internal Protection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
D99 - Pipe Type - Other

Tank Info:

Tank Number:	001
Tank Id:	50699
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/7/2004

Tank Number:	002
Tank Id:	50700
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/7/2004

Tank Number:	003
Tank Id:	50701
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/7/2004

HIST AST:

PBS Number:	2-602605
SWIS Code:	6101
Operator:	ANTHONY LOMANGINO
Facility Phone:	(718) 497-8011
Facility Addr2:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Emergency:	ANTHONY LOMANGINO
Emergency Tel:	(718) 497-8011
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Owner Address:	123 VARICK AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11237
Federal ID:	Not reported
Owner Tel:	(718) 386-7900
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	ANTHONY LOMANGINO
Mailing Name:	WASTE MANAGEMENT OF NEW YORK/WM DIV. NY
Mailing Address:	123 VARICK AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11237
Mailing Telephone:	(718) 386-7900
Owner Mark:	Second Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	04/19/1996
Expiration:	04/19/2001
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Region: 2

Tank ID: 001
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19900101
Capacity (Gal): 2000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: OTHER
Pipe Internal: None
Pipe External: 09
Tank Containment: None
Leak Detection: 00
Overfill Protection: 00
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: Not reported
Lat/Long: Not reported

Tank ID: 002
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status: In Service
Install Date: 19900101
Capacity (Gal): 275
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: None
Pipe Type: NONE
Pipe Internal: None
Pipe External: 00
Tank Containment: Excavation/Tranch Liner
Leak Detection: 00
Overfill Protection: 00
Dispenser Method: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: Not reported
Lat/Long: Not reported

WASTE MANAGEMENT OF NEW YORK/WM DIV. NY (Continued) **U003396745**

Tank ID:	003
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19900101
Capacity (Gal):	275
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Excavation/Tranch Liner
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

W440 **DURITE S&V & MAINT. CORP.** **SWF/LF** **S105841904**
SSW **250 MORGAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.203 mi.
1071 ft. **Site 1 of 6 in cluster W**

Relative:
Higher

Actual:
16 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184177271
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	STEVE RUSSEL; OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W67
Active:	No
East Coordinate:	589000
North Coordinate:	4507200
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported

DURITE S&V & MAINT. CORP. (Continued) **S105841904**

Authorization #: 2-6104-00016
Authorization Date: 5/21/1991
Expiration Date: 5/31/1996

V441 **VIJAX CORPORATION** **UST** **U001832798**
SSE **210 VARICK AVENUE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.204 mi.
1076 ft. **Site 5 of 5 in cluster V**

Relative:
Higher

Actual:
11 ft.

UST:
Facility Id: 2-080454
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590466.94310000003
UTM Y: 4507466.06066

Affiliation Records:
Site Id: 1615
Affiliation Type: Emergency Contact
Company Name: VIJAX CORPORATION
Contact Type: Not reported
Contact Name: ANTHONY LOSQUADRO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 497-4491
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1615
Affiliation Type: Mail Contact
Company Name: VIJAX CORPORATION
Contact Type: Not reported
Contact Name: RONALD CATOGGIO
Address1: 210 VARICH AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 497-4491
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 1615

VIJAX CORPORATION (Continued) **U001832798**

Affiliation Type:	Owner
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	210 VARICH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 497-4491
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	1615
Affiliation Type:	On-Site Operator
Company Name:	VIJAX CORPORATION
Contact Type:	Not reported
Contact Name:	ANTHONY LOSQUADRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 497-4491
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
I05 - Overfill - Vent Whistle
D10 - Pipe Type - Copper
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None

Tank Info:

Site ID: 1615

VIJAX CORPORATION (Continued) **U001832798**

Tank Number:	001
Tank ID:	5420
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2750
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	9/1/2002
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	11/1/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	1615
Tank Number:	002
Tank ID:	5421
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1981
Capacity Gallons:	4000
Tightness Test Method:	ZZ
Next Test Date:	Not reported
Date Tank Closed:	10/1/1981
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	11/1/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-080454
SPDES Number:	Not reported
Emergency Contact:	RONALD CATOBBIO
Emergency Telephone:	(718) 497-4491
Operator:	VIJAX CORPORATION
Operator Telephone:	(718) 497-4491
Owner Name:	VIJAX CORPORATION
Owner Address:	210 VARICH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11237
Owner Telephone:	(718) 497-4491
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	VIJAX CORPORATION
Mailing Address:	210 VARICH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11237
Mailing Contact:	RONALD CATOGGIO
Mailing Telephone:	(718) 497-4491
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is

VIJAX CORPORATION (Continued) **U001832798**

	greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	210 VARICK AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER RETAIL SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/15/1997
Expiration Date:	07/10/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	6750
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	2750
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	11/01/1997
Next Test Date:	11/01/2002
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service

VIJAX CORPORATION (Continued) **U001832798**

Install Date:	19811001
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	11/01/1997
Next Test Date:	11/01/2002
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

R442 **GOOD-WILL AUTO & TRUCK SERVICE CENTER** **AST** **A100294240**
SW **990 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.205 mi.
1080 ft. **Site 2 of 2 in cluster R**

Relative:
Higher

Actual:
19 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-610107
Program Type:	PBS
UTM X:	589914.87748000002
UTM Y:	4507459.8680600002
Expiration Date:	2016/02/01

Affiliation Records:

Site Id:	358987
Affiliation Type:	Owner
Company Name:	GOOD-WILL AUTO & TRUCK SERVICE CENTER
Contact Type:	PRESIDENT
Contact Name:	PETER XIANTING XIAO
Address1:	990 GRAND ST.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 381-6600
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/1/2006

GOOD-WILL AUTO & TRUCK SERVICE CENTER (Continued) **A100294240**

Site Id:	358987
Affiliation Type:	Emergency Contact
Company Name:	GOOD-WILL AUTO & TRUCK SERVICE CENTER
Contact Type:	Not reported
Contact Name:	PETER XIANTING XIAO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 381-6600
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/1/2006

Site Id:	358987
Affiliation Type:	On-Site Operator
Company Name:	GOOD-WILL AUTO & TRUCK SERVICE CENTER
Contact Type:	Not reported
Contact Name:	PETER XIANTING XIAO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 381-6600
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/1/2006

Site Id:	358987
Affiliation Type:	Mail Contact
Company Name:	GOOD-WILL AUTO & TRUCK SERVICE CENTER
Contact Type:	Not reported
Contact Name:	PETER XIANTING XIAO
Address1:	990 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 381-6600
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	2/1/2006

Equipment Records:

G05 - Tank Secondary Containment - Synthetic Liner

GOOD-WILL AUTO & TRUCK SERVICE CENTER (Continued) **A100294240**

Tank Info:

Tank Number:	001
Tank Id:	209875
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/8/2005
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	1/6/2011

W443 **CON EDISON - MANHOLE 260** **RCRA-LQG** **1014396349**
SSW **MORGAN AVE & MAUJER ST** **NYP004186136**
1/8-1/4 **BROOKLYN, NY 11237**
0.205 mi.
1080 ft. **Site 2 of 6 in cluster W**

Relative:
Higher

Actual:
16 ft.

RCRA-LQG:

Date form received by agency:	03/23/2010
Facility name:	CON EDISON - MANHOLE 260
Facility address:	MORGAN AVE & MAUJER ST BROOKLYN, NY 11237
EPA ID:	NYP004186136
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLYN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE

CON EDISON - MANHOLE 260 (Continued) **1014396349**

NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/11/2009
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/11/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/11/2009
Facility name: CON EDISON - MANHOLE 260
Site name: CON EDISON
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

W444 **CONSOLIDATED EDISON** **MANIFEST** **S110045597**
SSW **MORGAN AVE & MAUJER ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.205 mi.
1080 ft. **Site 3 of 6 in cluster W**

Relative:
Higher

Actual:
16 ft.

NY MANIFEST:
EPA ID: NYP004186136
Country: USA
Mailing Name: CONSOLIDATED EDISON

CONSOLIDATED EDISON (Continued) **S110045597**

Mailing Contact:	CONSOLIDATED EDISON
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-11
Trans1 Recv Date:	2009-08-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-12
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004186136
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	7000.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000961669GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	2009-08-11
Trans1 Recv Date:	2009-08-11
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-12
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

CONSOLIDATED EDISON (Continued) **S110045597**

Generator EPA ID:	NYP004186136
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	7000.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000961669GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

X445 **CHARLES J KING INC** **RCRA-NonGen** **1000231689**
ESE **1301 GRAND ST** **UST** **NYD012573648**
1/8-1/4 **BROOKLYN, NY 11211** **HIST UST**
0.214 mi.
1128 ft. **Site 1 of 5 in cluster X**

Relative:
Lower

Actual:
7 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	CHARLES J KING INC
Facility address:	1301 GRAND ST BROOKLYN, NY 112111802
EPA ID:	NYD012573648
Mailing address:	GRAND ST BROOKLYN, NY 11211
Contact:	Not reported
Contact address:	GRAND ST BROOKLYN, NY 11211
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CHARLES J KING INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private

CHARLES J KING INC (Continued) **1000231689**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CHARLES J KING INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: CHARLES J KING INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: CHARLES J KING INC
Classification: Not a generator, verified

Date form received by agency: 06/25/1980
Facility name: CHARLES J KING INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/23/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

UST:
Facility Id: 2-001074
Region: STATE

CHARLES J KING INC (Continued) **1000231689**

DEC Region: 2
Site Status: Active
Program Type: PBS
Expiration Date: 2016/04/15
UTM X: 590818.96427
UTM Y: 4507761.3362800004

Affiliation Records:

Site Id: 11
Affiliation Type: Owner
Company Name: CHARLES J. KING INC.
Contact Type: PRESIDENT
Contact Name: WAYNE D. KING
Address1: 1301 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 497-1950
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 12/5/2007

Site Id: 11
Affiliation Type: Mail Contact
Company Name: CHARLES J. KING, INC.
Contact Type: Not reported
Contact Name: WAYNE KING
Address1: 1301 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 497-1950
Phone Ext: Not reported
Email: WDKING@ATT.NET
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 10/19/2010

Site Id: 11
Affiliation Type: On-Site Operator
Company Name: CHARLES J. KING INC.
Contact Type: Not reported
Contact Name: WAYNE KING
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 497-1950
Phone Ext: Not reported
Email: Not reported

CHARLES J KING INC (Continued) **1000231689**

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/19/2010

Site Id:	11
Affiliation Type:	Emergency Contact
Company Name:	CHARLES J. KING INC.
Contact Type:	Not reported
Contact Name:	WAYNE KING
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 497-1950
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/19/2010

Equipment Records:

B07 - Tank External Protection - Retrofitted Sacrificial Anode
J02 - Dispenser - Suction
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
H99 - Tank Leak Detection - Other
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
H99 - Tank Leak Detection - Other
B00 - Tank External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
B00 - Tank External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
E04 - Piping Secondary Containment - Double-Walled (Underground)
G03 - Tank Secondary Containment - Vault (w/o access)
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
H99 - Tank Leak Detection - Other
L08 - Piping Leak Detection - Tank Top Sump
A01 - Tank Internal Protection - Epoxy Liner
D11 - Pipe Type - Flexible Piping
F99 - Pipe External Protection - Other
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
C02 - Pipe Location - Underground/On-ground
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

CHARLES J KING INC (Continued) **1000231689**

J02 - Dispenser - Suction
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
B07 - Tank External Protection - Retrofitted Sacrificial Anode
D11 - Pipe Type - Flexible Piping
H05 - Tank Leak Detection - In-Tank System (ATG)
G00 - Tank Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
I04 - Overfill - Product Level Gauge (A/G)
F99 - Pipe External Protection - Other
L08 - Piping Leak Detection - Tank Top Sump
E04 - Piping Secondary Containment - Double-Walled (Underground)
J02 - Dispenser - Suction
J02 - Dispenser - Suction
H99 - Tank Leak Detection - Other
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
B00 - Tank External Protection - None

Tank Info:

Site ID:	11
Tank Number:	01
Tank ID:	701
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1957
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	11/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	5/1/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	11
Tank Number:	02
Tank ID:	51086
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1957
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Date Tank Closed:	11/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	5/1/1996
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	11
Tank Number:	03
Tank ID:	702
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1958
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	11/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	6/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	11
Tank Number:	04
Tank ID:	51087
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1958
Capacity Gallons:	550
Tightness Test Method:	02
Next Test Date:	Not reported
Date Tank Closed:	11/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	6/1/1993
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	11
Tank Number:	05
Tank ID:	703
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	2/8/1974
Capacity Gallons:	1080
Tightness Test Method:	21
Next Test Date:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 6/14/2010
Register: True
Modified By: NRLOMBAR
Last Modified: 10/19/2010

Site ID: 11

Tank Number: 06
Tank ID: 51088
Tank Status: In Service
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 2/8/1974
Capacity Gallons: 1080
Tightness Test Method: 02
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: 6/14/2010
Register: True
Modified By: NRLOMBAR
Last Modified: 10/19/2010

HIST UST:
PBS Number: 2-001074
SPDES Number: Not reported
Emergency Contact: CHARLES J KING
Emergency Telephone: (718) 497-1950
Operator: WAYNE D. KING
Operator Telephone: (718) 497-1950
Owner Name: CHARLES J. KING INC.
Owner Address: 1301 GRAND STREET
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Telephone: (718) 497-1950
Owner Type: Corporate/Commercial
Owner Subtype: 50
Mailing Name: CHARLES J. KING INC.
Mailing Address: 1301 GRAND STREET
Mailing Address 2: Not reported
Mailing City,St,Zip: BROOKLYN, NY 11211
Mailing Contact: WAYNE D. KING
Mailing Telephone: (718) 497-1950
Owner Mark: First Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2: 1301 GRAND STREET
SWIS ID: 6101
Old PBS Number: Not reported
Facility Type: OTHER
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported

CHARLES J KING INC (Continued) **1000231689**

Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/27/2001
Expiration Date:	04/15/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2160
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	01
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19571201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	05/01/1996
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	11/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	02
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19571201
Capacity (gals):	550
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported

CHARLES J KING INC (Continued) **1000231689**

Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	05/01/1996
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	11/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	03
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19581201
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	06/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	11/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	04
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19581201
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Diking
Leak Detection:	Other

CHARLES J KING INC (Continued) **1000231689**

Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	06/01/1993
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	11/01/1998
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	05
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19981101
Capacity (gals):	1080
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	12
Pipe Location:	Underground
Pipe Type:	OTHER
Pipe Internal:	None
Pipe External:	Other
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Tank Auditor
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	06
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19981101
Capacity (gals):	1080
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	12
Pipe Location:	Underground
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	None
Pipe External:	Other
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm, Catch Basin
Dispenser:	Suction
Date Tested:	05/01/1996

CHARLES J KING INC (Continued) **1000231689**

Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Tank Auditor
Deleted: False
Updated: True
Lat/long: Not reported

U446 **MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS,** **LTANKS** **S100146066**
SE **235 GARDNER AVENUE** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY 11211** **CBS UST**
0.215 mi. **CBS**
1135 ft. **Site 6 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

LTANKS:
Site ID: 251435
Spill No: 9405227
Spill Date: 7/17/1994
Spill Cause: Tank Overfill
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 7/17/1994
Facility Addr2: Not reported
Cleanup Ceased: 7/17/1994
Cleanup Meets Standard: True
SWIS: 2401
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 7/17/1994
CID: Not reported
Water Affected: Not reported
Spill Notifier: Fire Department
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 10/14/1994
Spill Record Last Update: 11/13/2002
Spiller Name: Not reported
Spiller Company: KALEX CHEMICAL PRODUCTS
Spiller Address: 235 GARDNER AVENUE
Spiller City,St,Zip: BROOKLYN, NY 11211
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 206083
Remarks: NYCFD/DEC RESPONDED TO SPILL, INSPECTED CLEANUP WHICH IS NEARLY COMPLETE BY FOLLOWING DAY. SPILL CONTAINED INSIDE , CLEANUP BY KALEX.

Material:
Site ID: 251435
Operable Unit ID: 1002417
Operable Unit: 01
Material ID: 381822

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Material Code:	0002
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	296438
Spill No:	9002646
Spill Date:	6/6/1990
Spill Cause:	Tank Test Failure
Spill Source:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/2/1992
Facility Addr2:	Not reported
Cleanup Ceased:	10/2/1992
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	6/7/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/13/1990
Spill Record Last Update:	11/13/2002
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	206083

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Remarks: 8K TANK FULL OF #4 F.O. TO PLUG & E I & R

Material:
Site ID: 296438
Operable Unit ID: 942647
Operable Unit: 01
Material ID: 437388
Material Code: 0002
Material Name: #4 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 296438
Spill Tank Test: 1537161
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 9405227
Spill Date: 07/17/1994
Spill Time: 01:30
Spill Cause: Tank Overfill
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Non Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/17/94
Cleanup Ceased: 07/17/94
Cleanup Meets Standard: True
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 07/17/94
Reported to Department Time: 04:40
SWIS: 61

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: KALEX CHEMICAL PRODUCTS
Spiller Address: 235 GARDINER AVENUE
Spiller City,St,Zip: BROOKLYN, NEW YORK 11211
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Fire Department
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/14/94
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 150
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #4 FUEL OIL
Class Type: #4 FUEL OIL
Times Material Entry In File: 1751
CAS Number: Not reported
Last Date: 19941205
DEC Remarks: Not reported
Spill Cause: NYCFD/DEC RESPONDED TO SPILL, INSPECTED CLEANUP WHICH IS NEARLY COMPLETE BY FOLLOWING DAY. SPILL CONTAINED INSIDE , CLEANUP BY KALEX.

Region of Spill: 2
Spill Number: 9002646
Spill Date: 06/06/1990
Spill Time: 12:00
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/02/92
Cleanup Ceased: 10/02/92
Cleanup Meets Standard: False
Investigator: BATTISTA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 06/07/90
Reported to Department Time: 14:25
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: 2-472689
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 06/13/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 05/12/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #4 FUEL OIL
Class Type: #4 FUEL OIL

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Times Material Entry In File: 1751
CAS Number: Not reported
Last Date: 19941205
DEC Remarks: / / : 41 1 1 9 4 2 N.T.R2 2-061034 0011100/00+ 41 1 1 9 4 2 N.T.R2 2-061069 0012100/00+ P 31 1 1 0 4 2 N.T.R2.
Spill Cause: 8K TANK FULL OF 4 F.O. TO PLUG E I R

CBS UST:
UST_CBS Number: 2-000022
Facility Status: NO LONGER A MAJOR FACILITY
Facility Type: MANUFACTURING
Facility Tel: (718) 417-8282
Total Tanks: 0
Region: STATE
ICS No: 2-125258
PBS No: 2-472689
MOSF No: Not reported
SPDES No: Not reported
Town: NEW YORK CITY
Operator: VACANT
Emergency Contact: FIRST ENVIRONMENTAL, INC.
Emergency Contact Phone: (973) 616-9700
Certification Date: 10/07/1999
Expiration Date: 02/24/2001
Owner Name: MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS,
Owner Address: 235 GARDNER AVENUE
Owner City,St,Zip: BROOKLYN, NY 11211
Owner Tele: (718) 417-8282
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mail To Name: FIRST ENVIRONMENTAL, INC.
Mail To Contact: COREY NACHSHEN
Mail To Address: 90 RIVERDALE ROAD
Mail To Address 2: Not reported
Mail To City,St,Zip: RIVERDALE, NJ 07457
Mail To Telephone: (973) 616-9700

Tank Number: 3B
Date Entered: 04/10/1989
Capacity: 3600
Chemical: Phenoxarsine 10,10'-oxidi-
Tank Closed: 10/99
Tank Status: Temporarily Out Of Service
Tank Type: Steel/carbon steel
Install Date: 04/68
CAS No: 58366
Substance: Single Hazardous Substance on DEC List
Tank Location: UNDERGROUND, VAULTED, WITH ACCESS
Tank Internal: Other
Tank External: Painted/Asphalt Coating
Pipe Location: Aboveground/Underground Combination
Pipe Internal: Epoxy Liner
Pipe External: Painted/Asphalt Coating
Leak Detection: None
2nd Containmt: Other
Overfill Protection: Float Vent Valve
Haz Percent: 2

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Pipe Containment:	None
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	11:14:46
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Pipe Type:	STEEL/IRON
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|42|52 / 73|45|55
Renew Date:	11/02/92
Deliquent:	False
Total Capacity:	0
Date Expired:	02/24/95
Flag:	C
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True

Tank Number:	6B
Date Entered:	01/12/1993
Capacity:	3600
Chemical:	Zinc (See footnote # 1)
Tank Closed:	00/00
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	04/68
CAS No:	7440666
Substance:	Single Hazardous Substance on DEC List
Tank Location:	UNDERGROUND, VAULTED, WITH ACCESS
Tank Internal:	Other
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Internal:	Epoxy Liner
Pipe External:	Painted/Asphalt Coating
Leak Detection:	None
2nd Containmt:	Other
Overfill Protection:	Float Vent Valve
Haz Percent:	8
Pipe Containment:	None
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	08:11:48
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Pipe Type:	STEEL/IRON
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|42|52 / 73|45|55

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Renew Date:	11/02/92
Deliquent:	False
Total Capacity:	0
Date Expired:	02/24/95
Flag:	C
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True

Tank Number:	8
Date Entered:	02/24/1989
Capacity:	10000
Chemical:	Cadmium (plus compounds)
Tank Closed:	10/99
Tank Status:	Temporarily Out Of Service
Tank Type:	Steel/carbon steel
Install Date:	04/68
CAS No:	7740439
Substance:	Single Hazardous Substance on DEC List
Tank Location:	UNDERGROUND, VAULTED, WITH ACCESS
Tank Internal:	Other
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Internal:	Epoxy Liner
Pipe External:	Painted/Asphalt Coating
Leak Detection:	None
2nd Containmt:	Other
Overfill Protection:	Float Vent Valve
Haz Percent:	7
Pipe Containment:	None
Tank Error Status:	No Missing Data
Tank Secret:	False
Date Entered:	08:36:33
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6101
Pipe Type:	STEEL/IRON
Cert Flag:	False
Is it There:	False
Is Updated:	False
Owners Mark:	First Owner
Lat/Long:	40|42|52 / 73|45|55
Renew Date:	11/02/92
Deliquent:	False
Total Capacity:	0
Date Expired:	02/24/95
Flag:	C
Case No:	Not reported
Federal Amt:	True
Pipe Flag:	False
Reserve Flag:	True

CBS:

CBS Number:	2-000022
Program Type:	CBS

MANYA CORPORATION F.K.A. KALEX CHEMICAL PRODUCTS, (Continued) **S100146066**

Dec Region:	2
Expiration Date:	N/A
Facility Status:	Unregulated
UTMX:	590670.20299999
UTMY:	4507597.7216600

U447 **235 GARDNER AV/CALA** **LTANKS** **S106703310**
SE **235 GARDNER AVENUE** **HIST LTANKS** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.215 mi.
1135 ft. **Site 7 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Site ID:	251434
Spill No:	8808903
Spill Date:	2/14/1989
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/6/2004
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2/15/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/21/1989
Spill Record Last Update:	7/6/2004
Spiller Name:	Not reported
Spiller Company:	KALEX CHEMICAL PRODUCTS
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	206083
Remarks:	3200 GALLON UNDERGROUND TANK FAILED PRECISON TEST,SYSTEMS TEST, LEAK RATE WAS 0.188GPH, TANK HAS BEEN EMPTIED & PRODUCT REMOVED TO ANOTHER TANK.

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported

235 GARDNER AV/CALA (Continued) **S106703310**

Material Name: Not reported
Case No.: Not reported
Material FA: Not reported
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: 251434
Spill Tank Test: 1535174
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 8808903
Spill Date: 02/14/1989
Spill Time: 15:00
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: GRATHWOL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 02/15/89
Reported to Department Time: 09:55
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: KALEX CHEMICAL PRODUCTS
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported

235 GARDNER AV/CALA (Continued) **S106703310**

Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: 2-472689
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/21/89
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 10/17/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: DIISODECYLTHALATE.
Spill Cause: 3200 GALLON UNDERGROUND TANK FAILED PRECISON TEST,SYSTEMS TEST, LEAK RATE WAS 0.188GPH, TANK HAS BEEN EMPTIED PRODUCT REMOVED TO ANOTHER TANK.

U448 **KALEX CHEMICAL PRODUCTS INC** **RCRA-NonGen** **1000225496**
SE **235 GARDNER AVE** **FINDS** **NYD982183444**
1/8-1/4 **BROOKLYN, NY 11237** **MANIFEST**
0.215 mi.
1135 ft. **Site 8 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: KALEX CHEMICAL PRODUCTS INC
Facility address: 235 GARDNER AVE
BROOKLYN, NY 11237
EPA ID: NYD982183444
Mailing address: 49TH ST
MASPETH, NY 11378
Contact: TANG KOON
Contact address: 49TH ST
MASPETH, NY 11378

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Contact country: US
Contact telephone: (718) 821-4900
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ALEX KAUFMAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ALEX KAUFMAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: KALEX CHEMICAL PRODUCTS INC
Classification: Not a generator, verified

Date form received by agency: 05/28/1998
Facility name: KALEX CHEMICAL PRODUCTS INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Facility name: KALEX CHEMICAL PRODUCTS INC
Site name: KALEX CHEMICAL CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 04/28/1987
Facility name: KALEX CHEMICAL PRODUCTS INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: SR - 372.2(a)(2)
Area of violation: Listing - General
Date violation determined: 12/17/2003
Date achieved compliance: 04/13/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/09/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/17/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - General
Date achieved compliance: 04/13/2004
Evaluation lead agency: State

Evaluation date: 12/10/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110000823217

Environmental Interest/Information System
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD982183444

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Country:	USA
Mailing Name:	KALEX CHEMICAL CORP
Mailing Contact:	KALEX CHEMICAL CORP
Mailing Address:	235 GARDNER AVE
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip4:	1810
Mailing Country:	USA
Mailing Phone:	000-000-0000

Document ID:	NJA0750938
Manifest Status:	Completed copy
Trans1 State ID:	NJSWAS300
Trans2 State ID:	Not reported
Generator Ship Date:	891103
Trans1 Recv Date:	891103
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891103
Part A Recv Date:	891114
Part B Recv Date:	891124
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Quantity:	12440
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89

Document ID:	NJA0750941
Manifest Status:	Completed copy
Trans1 State ID:	NJSWAS300
Trans2 State ID:	Not reported
Generator Ship Date:	891103
Trans1 Recv Date:	891103
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891103
Part A Recv Date:	891114
Part B Recv Date:	891124
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Specific Gravity: 100
Year: 89

Document ID: NJA2086145
Manifest Status: Completed copy
Trans1 State ID: 08690
Trans2 State ID: Not reported
Generator Ship Date: 950614
Trans1 Recv Date: 950614
Trans2 Recv Date: Not reported
TSD Site Recv Date: 950619
Part A Recv Date: 950626
Part B Recv Date: 950706
Generator EPA ID: NYD982183444
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: F001 - UNKNOWN
Quantity: 02806
Units: P - Pounds
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 95

Document ID: NJA0946507
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NJSWAS300
Trans2 State ID: Not reported
Generator Ship Date: 900712
Trans1 Recv Date: 900712
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900712
Part A Recv Date: 900813
Part B Recv Date: 900906
Generator EPA ID: NYD982183444
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 00020
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 90

Document ID: NJA2247718
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 08690
Trans2 State ID: Not reported
Generator Ship Date: 951109

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Trans1 Recv Date:	951109
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	951114
Part A Recv Date:	951117
Part B Recv Date:	951205
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	02340
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA3180752
Manifest Status:	Not reported
Trans1 State ID:	NJD980772768
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2000
Trans1 Recv Date:	07/17/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/17/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	S6993
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	00770
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	014
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	00

Document ID:	NJA2086109
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	950728
Trans1 Recv Date:	950728
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950801
Part A Recv Date:	950807
Part B Recv Date:	950817
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Waste Code:	F001 - UNKNOWN
Quantity:	02802
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

Document ID:	NJA2234163
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	960131
Trans1 Recv Date:	960131
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960206
Part A Recv Date:	960208
Part B Recv Date:	960216
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	02340
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NJA1506976
Manifest Status:	Completed copy
Trans1 State ID:	NJDEPS581
Trans2 State ID:	Not reported
Generator Ship Date:	921119
Trans1 Recv Date:	921119
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921119
Part A Recv Date:	Not reported
Part B Recv Date:	921203
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	NJD982281016
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D005 - BARIUM 100.0 MG/L TCLP
Quantity:	01371
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Document ID:	NJA2640843
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	08690
Trans2 State ID:	X10342
Generator Ship Date:	960906
Trans1 Recv Date:	960906
Trans2 Recv Date:	960911
TSD Site Recv Date:	960911
Part A Recv Date:	960917
Part B Recv Date:	961003
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	NJD000813477
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	02335
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96

Document ID:	NJA2662916
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	08690
Generator Ship Date:	970107
Trans1 Recv Date:	970107
Trans2 Recv Date:	970114
TSD Site Recv Date:	970114
Part A Recv Date:	970128
Part B Recv Date:	970131
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ILD984908202
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	02340
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NJA2640874
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	970430
Trans1 Recv Date:	970430
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970502
Part A Recv Date:	970513

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Part B Recv Date: 970516
Generator EPA ID: NYD982183444
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: F001 - UNKNOWN
Quantity: 02340
Units: P - Pounds
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 97

Document ID: NJA2693918
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 08690
Trans2 State ID: Not reported
Generator Ship Date: 970610
Trans1 Recv Date: 970610
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970613
Part A Recv Date: 970617
Part B Recv Date: 970722
Generator EPA ID: NYD982183444
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: F001 - UNKNOWN
Quantity: 00936
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 97

Document ID: NJA2224556
Manifest Status: Completed copy
Trans1 State ID: 08690
Trans2 State ID: Not reported
Generator Ship Date: 970922
Trans1 Recv Date: 970922
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970924
Part A Recv Date: 971006
Part B Recv Date: 971016
Generator EPA ID: NYD982183444
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: F001 - UNKNOWN
Quantity: 07020
Units: P - Pounds
Number of Containers: 015

KALEX CHEMICAL PRODUCTS INC (Continued) **1000225496**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NJA2663144
Manifest Status:	Completed copy
Trans1 State ID:	08690
Trans2 State ID:	Not reported
Generator Ship Date:	970731
Trans1 Recv Date:	970731
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970806
Part A Recv Date:	970825
Part B Recv Date:	970822
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F001 - UNKNOWN
Quantity:	02340
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NJA0662013
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890810
Trans1 Recv Date:	890810
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890810
Part A Recv Date:	890927
Part B Recv Date:	890817
Generator EPA ID:	NYD982183444
Trans1 EPA ID:	NJD986567279
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Quantity:	02500
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	89

U449 **MANYA CORPORATION F.K.A KALEX CORP** **LTANKS** **U002034149**
SE **235 GARDNER AVENUE** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY 11211** **UST**
0.215 mi. **HIST UST**
1135 ft. **Site 9 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

LTANKS:

Site ID:	296439
Spill No:	9909043
Spill Date:	10/25/1999
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/7/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	hmdudek
Referred To:	Not reported
Reported to Dept:	10/25/1999
CID:	282
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/25/1999
Spill Record Last Update:	10/7/2005
Spiller Name:	LAWRENCE BRUNT
Spiller Company:	MANYA CORPORATION
Spiller Address:	235 GARDNER AVE
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller County:	001
Spiller Contact:	N/A
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	206083
Remarks:	THEY WERE IN THE PROCESS OF REMOVING TANK FROM A CLOSED BUSINESS AND FOUND CONTAMINATION IN THE GROUND

Material:

Site ID:	296439
Operable Unit ID:	1083649
Operable Unit:	01
Material ID:	298140
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

MANYA CORPORATION F.K.A KALEX CORP (Continued) **U002034149**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9909043
Spill Date:	10/25/1999
Spill Time:	13:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	SIGONA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/25/99
Reported to Department Time:	16:05
SWIS:	61
Spiller Contact:	N/A
Spiller Phone:	( ) -
Spiller Extention:	Not reported
Spiller Name:	MANYA CORPORATION
Spiller Address:	235 GARDNER AVE
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller Cleanup Date:	/ /
Facility Contact:	LAWRENCE BRUNT
Facility Phone:	(973) 616-9700
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False

MANYA CORPORATION F.K.A KALEX CORP (Continued) **U002034149**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/25/99
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/11/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Raw Sewage
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL
Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: COPIED HWR.
Spill Cause: THEY WERE IN THE PROCESS OF REMOVING TANK FROM A CLOSED BUSINESS AND FOUND CONTAMINATION IN THE GROUND

UST:
Facility Id: 2-472689
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590697.55085999996
UTM Y: 4507649.8900800003

Affiliation Records:
Site Id: 20752
Affiliation Type: On-Site Operator
Company Name: MANYA CORPORATION F.K.A KALEX CORP
Contact Type: Not reported
Contact Name: N/A
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: N/A
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported

MANYA CORPORATION F.K.A KALEX CORP (Continued) **U002034149**

Modified By:	KXTANG
Date Last Modified:	7/12/2005
Site Id:	20752
Affiliation Type:	Mail Contact
Company Name:	HEROLD AND HAINES, P.A.
Contact Type:	Not reported
Contact Name:	ANTHONY J. REITANO, ESQ.
Address1:	25 INDEPENDENCE BOULEVARD
Address2:	Not reported
City:	WARREN
State:	NJ
Zip Code:	07059
Country Code:	001
Phone:	(908) 647-1022
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	7/12/2005
Site Id:	20752
Affiliation Type:	Owner
Company Name:	MANYA CORPORATION F.K.A. KALEX CORP.
Contact Type:	CHIEF FINANCIAL OFFICER
Contact Name:	MARK KAUFMAN
Address1:	235 GARDNER AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(973) 616-9700
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	7/12/2005
Site Id:	20752
Affiliation Type:	Emergency Contact
Company Name:	MANYA CORPORATION F.K.A. KALEX CORP.
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	N/A
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	7/12/2005

MANYA CORPORATION F.K.A KALEX CORP (Continued) **U002034149**

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	20752
Tank Number:	001
Tank ID:	37188
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	8000
Tightness Test Method:	14
Next Test Date:	Not reported
Date Tank Closed:	10/25/1999
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1994
Register:	True
Modified By:	KXTANG
Last Modified:	7/12/2005

HIST UST:

PBS Number:	2-472689
SPDES Number:	Not reported
Emergency Contact:	FIRST ENVIRONMENT CORP
Emergency Telephone:	(973) 616-9700
Operator:	VACANT
Operator Telephone:	(973) 616-9700
Owner Name:	MANYA CORPORATION F.K.A. KALEX CORP.
Owner Address:	235 GARDNER AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11211
Owner Telephone:	(973) 616-9700
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	FIRST ENVIRONMENT INC.
Mailing Address:	90 RIVERDALE ROAD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	RIVERDALE, NY 07457
Mailing Contact:	COREY NACHSHEN
Mailing Telephone:	(973) 616-9700
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	235 GARDNER AVENUE
SWIS ID:	6101

MANYA CORPORATION F.K.A KALEX CORP (Continued) **U002034149**

Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/29/1999
Expiration Date:	03/28/2004
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	8000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	19991001
Capacity (gals):	8000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	07/01/1994
Next Test Date:	10/01/2009
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Tankology [Vacutect]
Deleted:	False
Updated:	True
Lat/long:	Not reported

U450 **WASTE MANAGEMENT OF NY (232 GARDNER)** **SWF/LF** **S107782970**
SE **232 GARDNER AVENUE** **AST** **N/A**
1/8-1/4 **BROOKLYN, NY** **HIST AST**
0.216 mi. **FINANCIAL ASSURANCE**
1142 ft. **Site 10 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Waste management of NY
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Tara Hemmer
Contact Address:	123 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	Not reported
Contact Phone:	7185335308
Activity Desc:	C&D processing - regulated
Activity Number:	24W98
Active:	No
East Coordinate:	590800
North Coordinate:	4507700
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Permit
Waste Type:	Wood (Clean)
Authorization #:	2-6101-00113
Authorization Date:	3/10/1997
Expiration Date:	3/10/2002

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Facility Id:	2-602602
Program Type:	PBS
UTM X:	590736.56376000005
UTM Y:	4507549.3958599996
Expiration Date:	N/A

Affiliation Records:

Site Id:	24559
Affiliation Type:	Emergency Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 533-5310
Phone Ext:	Not reported

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S107782970**

Email:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	3/17/2005

Site Id:	24559
Affiliation Type:	Owner
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	3/17/2005

Site Id:	24559
Affiliation Type:	On-Site Operator
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	Not reported
Contact Name:	JAY KAPLAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 533-5310
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE
Date Last Modified:	3/17/2005

Site Id:	24559
Affiliation Type:	Mail Contact
Company Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Contact Type:	ENVIRONMENTAL MANAGER
Contact Name:	JAY KAPLAN
Address1:	123 VARICK AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 533-5310
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	MABARTLE

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S107782970**

Date Last Modified: 3/17/2005

Equipment Records:

F00 - Pipe External Protection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None
I02 - Overfill - High Level Alarm
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D11 - Pipe Type - Flexible Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
D11 - Pipe Type - Flexible Piping
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction
K01 - Spill Prevention - Catch Basin
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None

Tank Info:

Tank Number:	001
Tank Id:	50689
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	201
Pipe Model:	Not reported
Install Date:	1/1/1994
Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	3/1/2005
Register:	True
Modified By:	MABARTLE
Last Modified:	3/17/2005

Tank Number:	002
Tank Id:	50690
Tank Location:	3
Tank Type:	Steel Tank in Concrete
Tank Status:	Closed - Removed
Tank Model:	202
Pipe Model:	Not reported

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S107782970**

Install Date:	1/1/1994
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	3/1/2005
Register:	True
Modified By:	MABARTLE
Last Modified:	3/17/2005

HIST AST:

PBS Number:	2-602602
SWIS Code:	6101
Operator:	CARLOS RIVERA
Facility Phone:	(718) 533-5500
Facility Addr2:	232 GARDNER AVE.
Facility Type:	OTHER
Emergency:	CARLOS RIVERA
Emergency Tel:	(718) 533-5500
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Owner Address:	123 VARICK AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11237
Federal ID:	Not reported
Owner Tel:	(718) 533-5310
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	JAY KAPLAN
Mailing Name:	WASTE MANAGEMENT OF NEW YORK,LLC
Mailing Address:	123 VARICK AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11237
Mailing Telephone:	(718) 533-5310
Owner Mark:	Second Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	04/13/2001
Expiration:	04/12/2006
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2550
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S107782970**

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19940101
Capacity (Gal):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	Diking
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19940101
Capacity (Gal):	2000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	Diking
Leak Detection:	01
Overfill Protection:	24
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

NY FINANCIAL ASSURANCE:
Owner Name: Waste management of NY

WASTE MANAGEMENT OF NY (232 GARDNER) (Continued) **S107782970**

Region: 2
Estimate Type: Closure
Estimate Amount: 535000
Estimate Date: 3/1/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 535000
Financial Institution: American Home Assurance
Issue Date: Not reported
Expiration Date: Not reported
Activity Number: 24W98
Activity Description: C&D processing - regulated

W451 **V2287** **RCRA-NonGen** **1007207122**
SSW **242 MORGAN AVENUE** **MANIFEST** **NYP004037743**
1/8-1/4 **NEW YORK CITY, NY 11233**
0.216 mi.
1142 ft. **Site 4 of 6 in cluster W**

Relative:
Higher

Actual:
15 ft.

RCRA-NonGen:
Date form received by agency: 01/03/2001
Facility name: V2287
Facility address: 242 MORGAN AVENUE
NEW YORK CITY, NY 11233
EPA ID: NYP004037743
Mailing address: CONSOLIDATED EDISON INC.
4 IRVING PLACE -- ROOM 300
NEW YORK, NY 10003
Contact: ANTHONY DRUMMINGS
Contact address: CONSOLIDATED EDISON INC.
NEW YORK, NY 10003
Contact country: US
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/02/2001
Facility name: V2287

V2287 (Continued) **1007207122**

Classification: Not a generator, verified

Date form received by agency: 01/01/2001
Facility name: V2287
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004037743
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: NYE0233572
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 05/24/1999
Trans1 Recv Date: 05/24/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/24/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004037743
Trans1 EPA ID: NYD980593636
Trans2 EPA ID: Not reported
TSDF ID: GX3216
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 02036
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99

W452 **CON EDISON - MANHOLE 260** **RCRA-LQG** **1014396494**
SSW **240 MORGAN AVE** **NYP004188058**
1/8-1/4 **BROOKLYN, NY 11237**
0.220 mi.
1162 ft. **Site 5 of 6 in cluster W**

Relative:
Higher

Actual:
15 ft.

RCRA-LQG:
Date form received by agency: 03/23/2010
Facility name: CON EDISON - MANHOLE 260
Facility address: 240 MORGAN AVE
BROOKLYN, NY 11237
EPA ID: NYP004188058

CON EDISON - MANHOLE 260 (Continued) **1014396494**

Mailing address: 4 IRVING PLACE
NEW YORK, NY 10003
Contact: FRANKLYN MURRAY
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-2808
Contact email: MURRAYFR@CONED.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/28/2009
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/28/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No

CON EDISON - MANHOLE 260 (Continued) **1014396494**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

W453 **CONSOLIDATED EDISON** **MANIFEST** **S110046485**
SSW **240 MORGAN AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11237**
0.220 mi.
1162 ft. **Site 6 of 6 in cluster W**

Relative:
Higher

Actual:
15 ft.

NY MANIFEST:
EPA ID: NYP004188058
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLYN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-30
Trans1 Recv Date: 2009-07-30
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-08-04
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004188058
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 400.0
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1.0
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 09
Manifest Tracking Num: 000894787GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N

CONSOLIDATED EDISON (Continued) **S110046485**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-30
Trans1 Recv Date:	2009-07-30
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-08-04
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004188058
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	400.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000894787GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Y454 **368 RICHARDSON STREET CORP.** **UST** **U001839671**
NNW **368 RICHARDSON ST (A.K.A.) 460 MORGAN AVE** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11222**
0.220 mi.
1163 ft. **Site 1 of 2 in cluster Y**

Relative:
Higher

Actual:
35 ft.

UST:

Facility Id:	2-349240
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A

368 RICHARDSON STREET CORP. (Continued) **U001839671**

UTM X: 589755.52899999998
UTM Y: 4508184.0113199996

Affiliation Records:

Site Id: 17185
Affiliation Type: Owner
Company Name: H SEYMOUR WEINSTEIN
Contact Type: Not reported
Contact Name: Not reported
Address1: 300 MORGAN AVENUE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11222
Country Code: 001
Phone: (718) 963-2626
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 17185
Affiliation Type: On-Site Operator
Company Name: 368 RICHARDSON STREET CORP.
Contact Type: Not reported
Contact Name: 368 RICHARDSON ST. CORP
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 388-6500
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 17185
Affiliation Type: Emergency Contact
Company Name: H SEYMOUR WEINSTEIN
Contact Type: Not reported
Contact Name: STANLEY KLAUBER
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 224-9581
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

368 RICHARDSON STREET CORP. (Continued) **U001839671**

Site Id:	17185
Affiliation Type:	Mail Contact
Company Name:	H SEYMOUR WEINSTEIN
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	300 MORGAN AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11222
Country Code:	001
Phone:	(718) 963-2626
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None

Tank Info:

Site ID:	17185
Tank Number:	001
Tank ID:	33434
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

368 RICHARDSON STREET CORP. (Continued) **U001839671**

Site ID: 17185

Tank Number: 002
Tank ID: 49659
Tank Status: Closed - In Place
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 4500
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 2-349240
SPDES Number: Not reported
Emergency Contact: STANLEY KLAUBER
Emergency Telephone: (718) 224-9581
Operator: 368 RICHARDSON ST. CORP
Operator Telephone: (718) 388-6500
Owner Name: H SEYMOUR WEINSTEIN
Owner Address: 300 MORGAN AVENUE
Owner City,St,Zip: BKLN, NY 11222
Owner Telephone: (718) 963-2626
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Name: H SEYMOUR WEINSTEIN
Mailing Address: 300 MORGAN AVENUE
Mailing Address 2: Not reported
Mailing City,St,Zip: BKLN, NY 11222
Mailing Contact: Not reported
Mailing Telephone: (718) 963-2626
Owner Mark: First Owner
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2: Not reported
SWIS ID: 6101
Old PBS Number: Not reported
Facility Type: OTHER
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False
Certification Date: 03/25/1993
Expiration Date: 05/19/1998
Renew Flag: False
Renewal Date: Not reported
Total Capacity: 0
FAMT: True
Facility Screen: No Missing Data

368 RICHARDSON STREET CORP. (Continued) **U001839671**

Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported
Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	4500
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported

368 RICHARDSON STREET CORP. (Continued) **U001839671**

Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

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455 SW 1/8-1/4 0.223 mi. 1176 ft.

KG3 REALTY LLC
976 GRAND STREET
BROOKLYN, NY 11211

UST **U004047335**
N/A

Relative: Higher

Actual: 21 ft.

UST:
Facility Id: 2-609404
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 589904.77099999995
UTM Y: 4507457.3030700004

Affiliation Records:
Site Id: 31248
Affiliation Type: Mail Contact
Company Name: KG3 REALTY LLC
Contact Type: Not reported
Contact Name: MR. RAY MARSH
Address1: 976 GRAND STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11211
Country Code: 001
Phone: (718) 599-0100
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 31248
Affiliation Type: On-Site Operator
Company Name: KG3 REALTY LLC
Contact Type: Not reported
Contact Name: RAY MARSH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 599-0100
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

KG3 REALTY LLC (Continued) **U004047335**

Site Id:	31248
Affiliation Type:	Emergency Contact
Company Name:	KG3 REALTY LLC
Contact Type:	Not reported
Contact Name:	RAY MARSH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 599-0100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	31248
Affiliation Type:	Owner
Company Name:	KG3 REALTY LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	976 GRAND STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11211
Country Code:	001
Phone:	(718) 599-0100
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I05 - Overfill - Vent Whistle
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None

Tank Info:

Site ID:	31248
Tank Number:	01
Tank ID:	67337
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported

KG3 REALTY LLC (Continued) **U004047335**

Capacity Gallons:	2500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	12/30/2003
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

X456 **ROADWAY EXPRESS** **UST** **U003644425**
East **1313 GRAND ST** **HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.227 mi.
1201 ft. **Site 2 of 5 in cluster X**

Relative:
Lower

Actual:
6 ft.

UST:

Facility Id:	2-157724
Region:	STATE
DEC Region:	2
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	590848.11095
UTM Y:	4507776.5264799995

Affiliation Records:

Site Id:	5238
Affiliation Type:	Emergency Contact
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	MR TOM BOCH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 821-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	5238
Affiliation Type:	Mail Contact
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3225 GALLOWS RD.; ENV.ENGINEER
Address2:	Not reported
City:	FAIRFAX
State:	VA
Zip Code:	22037
Country Code:	001
Phone:	(703) 849-5862

ROADWAY EXPRESS (Continued) **U003644425**

Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/10/2010

Site Id:	5238
Affiliation Type:	Owner
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3225 GALLOWS RD.; ENV.ENGINEER
Address2:	Not reported
City:	FAIRFAX
State:	VA
Zip Code:	22037
Country Code:	001
Phone:	(703) 849-5862
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/10/2010

Site Id:	5238
Affiliation Type:	On-Site Operator
Company Name:	ROADWAY EXPRESS
Contact Type:	Not reported
Contact Name:	ROADWAY EXPRESS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 821-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None

ROADWAY EXPRESS (Continued) **U003644425**

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
I00 - Overfill - None
I00 - Overfill - None
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
C00 - Pipe Location - No Piping
I00 - Overfill - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
I00 - Overfill - None

ROADWAY EXPRESS (Continued) **U003644425**

B00 - Tank External Protection - None
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
I00 - Overfill - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None

ROADWAY EXPRESS (Continued) **U003644425**

H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	5238
Tank Number:	001
Tank ID:	40145
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	002
Tank ID:	40146
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	003
Tank ID:	40147
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN

ROADWAY EXPRESS (Continued) **U003644425**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	004
Tank ID:	40148
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	005
Tank ID:	40149
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	006
Tank ID:	40150
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN

ROADWAY EXPRESS (Continued) **U003644425**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	007
Tank ID:	40151
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	008
Tank ID:	40152
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	009
Tank ID:	40153
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN

ROADWAY EXPRESS (Continued) **U003644425**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	010
Tank ID:	40154
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	011
Tank ID:	40155
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	012
Tank ID:	40156
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN

ROADWAY EXPRESS (Continued) **U003644425**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	013
Tank ID:	40157
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	014
Tank ID:	40158
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	015
Tank ID:	40159
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN

ROADWAY EXPRESS (Continued) **U003644425**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	016
Tank ID:	40160
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	5238
Tank Number:	017
Tank ID:	40161
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1959
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-157724
SPDES Number:	Not reported
Emergency Contact:	MR TOM BOCH
Emergency Telephone:	(718) 821-5410
Operator:	ROADWAY EXPRESS
Operator Telephone:	(718) 821-5410
Owner Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Owner Address:	3225 GALLOWS RD.; ENV.ENGINEER
Owner City,St,Zip:	FAIRFAX, VA 22037

ROADWAY EXPRESS (Continued) **U003644425**

Owner Telephone:	(703) 849-5862
Owner Type:	Not reported
Owner Subtype:	Mobil Oil Company
Mailing Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Mailing Address:	3225 GALLOWS RD.; ENV.ENGINEER
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FAIRFAX, VA 22037
Mailing Contact:	Not reported
Mailing Telephone:	(703) 849-5862
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1313 GRAND ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/29/1987
Expiration Date:	10/29/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing

ROADWAY EXPRESS (Continued) **U003644425**

Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False

ROADWAY EXPRESS (Continued) **U003644425**

Updated: False
Lat/long: Not reported

Tank Id: 004
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: 19590101
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 005
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: 19590101
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

ROADWAY EXPRESS (Continued) **U003644425**

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991

ROADWAY EXPRESS (Continued) **U003644425**

Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL

ROADWAY EXPRESS (Continued) **U003644425**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	011
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	012
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported

ROADWAY EXPRESS (Continued) **U003644425**

Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	013
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	014
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported

ROADWAY EXPRESS (Continued) **U003644425**

Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	015
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	016
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None

ROADWAY EXPRESS (Continued) **U003644425**

Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	017
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19590101
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

X457 **ROADWAY EXPRESS INC** **LTANKS** **U003644408**
East **1313 GRAND ST** **HIST LTANKS** **N/A**
1/8-1/4 **BROOKLYN, NY 11211** **UST**
0.227 mi. **HIST UST**
1201 ft. **Site 3 of 5 in cluster X** **NY Spills**
NY Hist Spills

Relative:
Lower

Actual:
6 ft.

LTANKS:

Site ID:	170911
Spill No:	8708981
Spill Date:	1/21/1988
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/7/1992
Facility Addr2:	Not reported
Cleanup Ceased:	10/7/1992
Cleanup Meets Standard:	False
SWIS:	2401

ROADWAY EXPRESS INC (Continued) **U003644408**

Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1/21/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/26/1988
Spill Record Last Update:	11/13/2002
Spiller Name:	Not reported
Spiller Company:	ROADWAY EXPRESS
Spiller Address:	1313 GRAND ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	143819
Remarks:	1K TANK SYSTEM FAILED HYDROSTATIC AIR TEST, TO REMOVE PRODUCT ON 1/21/88 AND REPLACE TANK.

Material:

Site ID:	170911
Operable Unit ID:	914235
Operable Unit:	01
Material ID:	464329
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	170911
Spill Tank Test:	1533057
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	438179
Spill No:	1004888
Spill Date:	7/30/2010

ROADWAY EXPRESS INC (Continued) **U003644408**

Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not reported
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BKFALVEY
Referred To:	Not reported
Reported to Dept:	7/30/2010
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	7/30/2010
Spill Record Last Update:	1/26/2011
Spiller Name:	PHYLLIS TAINISH DEPT A-20
Spiller Company:	ROADWAY EXPRESS INC
Spiller Address:	1077 GORGE BLVD
Spiller City,St,Zip:	AKRON, OH
Spiller County:	999
Spiller Contact:	MARK SHIRLEY
Spiller Phone:	(212) 292-2210
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	143819
Remarks:	cleanup pending - sub contractor reporting

Material:

Site ID:	438179
Operable Unit ID:	1188844
Operable Unit:	01
Material ID:	2183775
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	438179
Spill Tank Test:	2489265
Tank Number:	21
Tank Size:	1000
Test Method:	21
Leak Rate:	0
Gross Fail:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Modified By: RVKETANI
Last Modified: 7/30/2010
Test Method: Horner EZY3/EZY3 Locator Plus

HIST LTANKS:
Region of Spill: 2
Spill Number: 8708981
Spill Date: 01/21/1988
Spill Time: 11:30
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/07/92
Cleanup Ceased: 10/07/92
Cleanup Meets Standard: False
Investigator: BATTISTA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 01/21/88
Reported to Department Time: 11:37
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: ROADWAY EXPRESS
Spiller Address: 1313 GRAND ST
Spiller City,St,Zip: BROOKLYN, NY
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 821-5410
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 2-043826
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/26/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/15/94
Is Updated: False

Tank:

ROADWAY EXPRESS INC (Continued) **U003644408**

PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: 1K TANK SYSTEM FAILED HYDROSTATIC AIR TEST, TO REMOVE PRODUCT ON 1/21/88 AND REPLACE TANK.

UST:
Facility Id: 2-043826
Region: STATE
DEC Region: 2
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 590848.11095
UTM Y: 4507776.5264799995

Affiliation Records:
Site Id: 424
Affiliation Type: Owner
Company Name: ROADWAY EXPRESS INC
Contact Type: Not reported
Contact Name: Not reported
Address1: 1077 GORGE BLVD
Address2: Not reported
City: AKRON
State: OH
Zip Code: 44309-0471
Country Code: 001
Phone: (216) 384-1717
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 424
Affiliation Type: Mail Contact
Company Name: ROADWAY EXPRESS INC
Contact Type: Not reported
Contact Name: PHYLLIS TAINISH-DEPT A20
Address1: 1077 GORGE BLVD

ROADWAY EXPRESS INC (Continued) **U003644408**

Address2:	Not reported
City:	AKRON
State:	OH
Zip Code:	44310
Country Code:	001
Phone:	(330) 258-2475
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	424
Affiliation Type:	On-Site Operator
Company Name:	ROADWAY EXPRESS INC
Contact Type:	Not reported
Contact Name:	JACK LESLIE TM.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 821-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	424
Affiliation Type:	Emergency Contact
Company Name:	ROADWAY EXPRESS INC
Contact Type:	Not reported
Contact Name:	JACK LESLIE TM.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 821-5410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None

ROADWAY EXPRESS INC (Continued) **U003644408**

B00 - Tank External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
D02 - Pipe Type - Galvanized Steel
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
H04 - Tank Leak Detection - Groundwater Well
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
H04 - Tank Leak Detection - Groundwater Well
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping

ROADWAY EXPRESS INC (Continued) **U003644408**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H99 - Tank Leak Detection - Other
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
H99 - Tank Leak Detection - Other
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
D01 - Pipe Type - Steel/Carbon Steel/Iron
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
B00 - Tank External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)

ROADWAY EXPRESS INC (Continued) **U003644408**

C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
H04 - Tank Leak Detection - Groundwater Well
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J01 - Dispenser - Submersible
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
D02 - Pipe Type - Galvanized Steel
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None

ROADWAY EXPRESS INC (Continued) **U003644408**

J02 - Dispenser - Suction
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
G03 - Tank Secondary Containment - Vault (w/o access)
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None

Tank Info:

Site ID:	424
Tank Number:	001
Tank ID:	1157
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	002
Tank ID:	1158
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	003
Tank ID:	1159
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	004
Tank ID:	1160
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	005
Tank ID:	1161
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	006
Tank ID:	1162
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	007
Tank ID:	1163
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	008
Tank ID:	1164
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	009
Tank ID:	1165
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	010
Tank ID:	1166
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	011
Tank ID:	1167
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	012
Tank ID:	1168
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	013
Tank ID:	1169
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	014
Tank ID:	1170
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	015
Tank ID:	1171
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	016
Tank ID:	1172
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	017
Tank ID:	1173
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	2000
Tightness Test Method:	09
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	018
Tank ID:	1174
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	9/1/1998
Capacity Gallons:	4000
Tightness Test Method:	09
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	019
Tank ID:	1175
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	4000
Tightness Test Method:	09
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1997
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	020
Tank ID:	1176
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1998
Capacity Gallons:	500
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	9/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	424
Tank Number:	021
Tank ID:	1177
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Install Date:	12/1/1988
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	2-043826
SPDES Number:	Not reported
Emergency Contact:	JACK LESLIE TM.
Emergency Telephone:	(718) 821-5410
Operator:	JACK LESLIE TM.
Operator Telephone:	(718) 821-5410
Owner Name:	ROADWAY EXPRESS INC
Owner Address:	1077 GORGE BLVD
Owner City,St,Zip:	AKRON, OH 44309-0471
Owner Telephone:	(216) 384-1717
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ROADWAY EXPRESS INC
Mailing Address:	1077 GORGE BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	AKRON, OH 44310
Mailing Contact:	PHYLLIS TAINISH-DEPT A20
Mailing Telephone:	(330) 258-2475
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	1313 GRAND ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	TRUCKING/TRANSPORTATION
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/16/1998
Expiration Date:	12/02/2001
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	1000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01

ROADWAY EXPRESS INC (Continued) **U003644408**

Region: 2

Tank Id: 001
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 002
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 003

ROADWAY EXPRESS INC (Continued) **U003644408**

Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 004
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: LEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 005
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	007
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel

ROADWAY EXPRESS INC (Continued) **U003644408**

Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	008
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	009
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	010
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	011
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 012
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 013
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge

ROADWAY EXPRESS INC (Continued) **U003644408**

Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 014
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 015
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 016
Tank Location: UNDERGROUND
Tank Status: Closed Before April 1, 1991
Install Date: Not reported
Capacity (gals): 550
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Product Level Gauge
Dispenser: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
Lat/long: Not reported

Tank Id: 017
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 2000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Diking
Leak Detection: Groundwater Well
Overfill Prot: Product Level Gauge
Dispenser: Submersible
Date Tested: 02/01/1997
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: VPLT (NDE)

ROADWAY EXPRESS INC (Continued) **U003644408**

Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 018
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Diking
Leak Detection: Groundwater Well
Overfill Prot: Product Level Gauge
Dispenser: Submersible
Date Tested: 02/01/1997
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: VPLT (NDE)
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 019
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19980901
Capacity (gals): 4000
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: Diking
Leak Detection: Groundwater Well
Overfill Prot: Product Level Gauge
Dispenser: Submersible
Date Tested: 02/01/1997
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 09/01/1998
Test Method: VPLT (NDE)
Deleted: False
Updated: True
Lat/long: Not reported

ROADWAY EXPRESS INC (Continued) **U003644408**

Tank Id:	020
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19980901
Capacity (gals):	500
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	09/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	021
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19881201
Capacity (gals):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

NY Spills:

Site ID:	170912
Facility Addr2:	Not reported
Facility ID:	9808077

ROADWAY EXPRESS INC (Continued) **U003644408**

Spill Number:	9808077
Facility Type:	ER
SWIS:	2401
Investigator:	WXSUN
Referred To:	TCR PREPARED BY APEX ENV.
Spill Date:	9/30/1998
Reported to Dept:	10/1/1998
CID:	366
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/12/2007
Remediation Phase:	0
Date Entered In Computer:	10/1/1998
Spill Record Last Update:	9/12/2007
Spiller Name:	JACK LESLIE
Spiller Company:	ROADWAY EXPRESS INC
Spiller Address:	1313 GRAND ST
Spiller City,St,Zip:	BROOKLYN, NY 11211-
Spiller Company:	001
Contact Name:	JACK LESLIE
Contact Phone:	(718) 821-5410
DEC Region:	2
DER Facility ID:	143819
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN" TANK REMOVAL. SOIL AROUND FILL CONTAMINATED, STOCKPILED. SAMPLES TAKEN. SOIL SAMPLES SHOWED HIGH SEMI-VOLS. TCLP DONE ON SAMPLES 11/3/03 - AUSTIN - REVIEW OF PBS FOR SITE FOUND ALL TANKS CLOSED OUT - CLOSURE REPORT IN UNASSIGNED SPILLS FILE - REASSIGN THIS REPORT AS PART OF PROJECT TRANSFERS BETWEEN SECTIONS - END 06/16/06: This spill is transferred from Mike Mulqueen to Mr. Koon Tang. 10/30/06 Reassigned from Tang to Sun. (MS) 8/6/07: Tank Closure Report re-located. Performed by Apex Environmental in February 1999. Reviewing for possible closure. (JS/MS) 9/11/07: All VOC was non-detect, SVOC was above but re-submited for TCLP and was below. (JS/MS) 9/12/07: TCR from APEX shows that site has been adequetely cleaned after the removal of fuel, diesel, and waste oil USTs. Approx 300 tons of soil was disposed of properly and the excavations were all backfilled with certified clean fill. A NFA letter was sent to Phyllis Tainish - the representative of Roadway Express Inc., at 1077 Gorge Blvd in Akron, OH 44310. This spill case closed on 9/12/07. (JS/MS)
Remarks:	CALLER STATES A MINOR SPILL ON GROUND. CLEAN UP HAS BEEN ARRANGED.

Material:

Site ID:	170912
Operable Unit ID:	1069256
Operable Unit:	01
Material ID:	315608
Material Code:	0008

ROADWAY EXPRESS INC (Continued) **U003644408**

Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	422759
Facility Addr2:	Not reported
Facility ID:	0910021
Spill Number:	0910021
Facility Type:	ER
SWIS:	2401
Investigator:	HRAHMED
Referred To:	Not reported
Spill Date:	12/9/2009
Reported to Dept:	12/9/2009
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	12/9/2009
Spill Record Last Update:	2/24/2010
Spiller Name:	DERRIC KEARNS
Spiller Company:	UNKOWN
Spiller Address:	1313 GRAND ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	DERRIC KEARNS
Contact Phone:	(267) 685-1800
DEC Region:	2
DER Facility ID:	143819

ROADWAY EXPRESS INC (Continued) **U003644408**

DEC Memo: Phase 2 being done for a property transfer. Two groundwater samples slightly over limits for Benzene. Property Owner is: North American Terminals Management Inc. Attn: Miss Coleman Natmi Truck Terminals LLC c/o LaSalle Investment Management Inc. 100 East Pratt St.20th Flr Baltimore, Maryland 21202 No CSL letter was sent out, because Mr. Kearns said a full "Phase 2" report was completed and he believes NYSDEC "may" just close the case out with the minor benzene numbers. Sangesland asked Mr. Kearns to submit the report to Hasan Ahmed and wait for further direction from the DEC for either closure or additional work. 02/24/10-HRAHMED-Deric Kearns (267 685 1800) called to get an update. As k him to send me an electronic version of the report.
Remarks: Not reported

Material:
Site ID: 422759
Operable Unit ID: 1178587
Operable Unit: 01
Material ID: 2172057
Material Code: 0854A
Material Name: BENZENE
Case No.: 00071432
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:
Region of Spill: 2
Spill Number: 9808077
Investigator: MULQUEEN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 09/30/1998 10:00
Reported to Dept Date/Time: 10/01/98 11:28

ROADWAY EXPRESS INC (Continued) **U003644408**

SWIS: 61
Spiller Name: ROADWAY EXPRESS INC
Spiller Contact: JACK LESLIE
Spiller Phone: (718) 821-5410
Spiller Contact: JACK LESLIE
Spiller Phone: (718) 821-5410
Spiller Address: 1313 GRAND ST
Spiller City,St,Zip: BROOKLYN, NY 11211-
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/01/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/25/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: TANK REMOVAL. SOIL AROUND FILL CONTAMINATED, STOCKPILED. SAMPLES TAKEN. SOIL SAMPLES SHOWED HIGH SEMI-VOLS. TCLP DONE ON SAMPLES - WHICH EXCEEDED HOLDING TIME SHOWED ND. ORIGINAL SOIL SAMPLES HAD VERY HIGH MDL S. WILL REQUIRE GW INVESTIGATION.
Remark: CALLER STATES A MINOR SPILL ON GROUND. CLEAN UP HAS BEEN ARRANGED.

X458 **ROADWAY EXPRESS** **MANIFEST** **S108793982**
East **1313 GRAND STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.227 mi.
1201 ft. **Site 4 of 5 in cluster X**

Relative:
Lower

Actual:
6 ft.

NJ MANIFEST:

Manifest Code:	000092800SKS
EPA ID:	NYD095769782
Date Shipped:	11/28/20
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/28/
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/4/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000802425SKS
EPA ID:	NYD095769782
Date Shipped:	10/1/200
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/1/2

ROADWAY EXPRESS (Continued) **S108793982**

Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/9/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000814880SKS
EPA ID:	NYD095769782
Date Shipped:	8/8/2007
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	8/8/20
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	8/13/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D039
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	15

ROADWAY EXPRESS (Continued) **S108793982**

Unit: G
Hand Code: H14

Manifest Code:	000431343SKS
EPA ID:	NYD095769782
Date Shipped:	6/13/200
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	6/13/2
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	6/19/2
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D039
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	15
Unit:	G
Hand Code:	H14

Manifest Code:	000486609SKS
EPA ID:	NYD095769782
Date Shipped:	4/19/200
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	4/19/2

ROADWAY EXPRESS (Continued) **S108793982**

Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 4/24/2
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D039
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 17
Unit: G
Hand Code: H14

Manifest Code: 000394829SKS
EPA ID: NYD095769782
Date Shipped: 2/21/200
TSDF EPA ID: NJD982270506
Transporter EPA ID: TXR000050930
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 2/21/2
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 2/24/2
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: D039
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 17

ROADWAY EXPRESS (Continued) **S108793982**

Unit: G
Hand Code: H14

Manifest Code:	000424014SKS
EPA ID:	NYD095769782
Date Shipped:	1/2/2007
TSDF EPA ID:	NJD982270506
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	1/2/20
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	1/7/20
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D039
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	17
Unit:	G
Hand Code:	H14

X459 **ROADWAY EXPRESS** **RCRA-CESQG** **1004756458**
East **1313 GRAND ST** **FINDS** **NYD095769782**
1/8-1/4 **BROOKLYN, NY 11211** **MANIFEST**
0.227 mi.
1201 ft. **Site 5 of 5 in cluster X**

Relative:
Lower

Actual:
6 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	ROADWAY EXPRESS
Facility address:	1313 GRAND ST BROOKLYN, NY 11211
EPA ID:	NYD095769782
Mailing address:	ROE AVE OVERLAND PARK, KS 66211
Contact:	THOMAS W GERHOLD

ROADWAY EXPRESS (Continued) **1004756458**

Contact address:	ROE AVE OVERLAND PARK, KS 66211
Contact country:	US
Contact telephone:	(913) 344-3066
Contact email:	TOM.GERHOLD@YELLOWROADWAY.COM
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ROADWAY EXPRESS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1985
Owner/Op end date:	Not reported

Owner/operator name:	ROADWAY EXPRESS
Owner/operator address:	GORGE BLVD AKRON, OH 44309
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/01/1985
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

ROADWAY EXPRESS (Continued) **1004756458**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/07/2006
Facility name: ROADWAY EXPRESS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/06/2006
Facility name: ROADWAY EXPRESS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/28/1986
Facility name: ROADWAY EXPRESS
Site name: ROADWAY EXPRESS INC
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110004375872

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ROADWAY EXPRESS (Continued) **1004756458**

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

NY MANIFEST:

EPA ID:	NYD095769782
Country:	USA
Mailing Name:	ROADWAY EXPRESS INC
Mailing Contact:	ROADWAY EXPRESS INC
Mailing Address:	1313 GRAND STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11211
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-821-5410

Document ID:	NYC7093271
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	08/21/2003
Trans1 Recv Date:	08/21/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	NYD000708198
Trans2 EPA ID:	Not reported
TSDF ID:	NY58468JH
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00016
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	03

Document ID:	NYC7067621
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	06/27/2003
Trans1 Recv Date:	06/27/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/02/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	NYD000708198
Trans2 EPA ID:	Not reported

ROADWAY EXPRESS (Continued) **1004756458**

TSDF ID:	NYAT8305
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00017
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	03

Document ID:	NYC7002134
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	01/06/2003
Trans1 Recv Date:	01/06/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/08/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	NYD000708198
Trans2 EPA ID:	Not reported
TSDF ID:	NYAT8305
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00017
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	03

Document ID:	NYC7013733
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/2003
Trans1 Recv Date:	05/01/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/05/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	NYD000708198
Trans2 EPA ID:	Not reported
TSDF ID:	NYAT8305
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00017
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	03

ROADWAY EXPRESS (Continued) **1004756458**

Document ID:	NYA9648459
Manifest Status:	Completed copy
Trans1 State ID:	NYMU4524
Trans2 State ID:	Not reported
Generator Ship Date:	891016
Trans1 Recv Date:	891016
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891016
Part A Recv Date:	891020
Part B Recv Date:	891027
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9639999
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890822
Trans1 Recv Date:	890822
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890822
Part A Recv Date:	890830
Part B Recv Date:	890829
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA5434839
Manifest Status:	Completed copy
Trans1 State ID:	YJ-67987-
Trans2 State ID:	Not reported
Generator Ship Date:	890717
Trans1 Recv Date:	890717
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890719
Part A Recv Date:	890726

ROADWAY EXPRESS (Continued) **1004756458**

Part B Recv Date: 890727
Generator EPA ID: NYD095769782
Trans1 EPA ID: PAD987269511
Trans2 EPA ID: Not reported
TSDF ID: NYD043815703
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 89

Document ID: NYA9775541
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 891116
Trans1 Recv Date: 891116
Trans2 Recv Date: Not reported
TSD Site Recv Date: 891116
Part A Recv Date: 900129
Part B Recv Date: 891121
Generator EPA ID: NYD095769782
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00086
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 89

Document ID: NYC0241773
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NYDL7754
Trans2 State ID: Not reported
Generator Ship Date: 900503
Trans1 Recv Date: 900503
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900503
Part A Recv Date: 900613
Part B Recv Date: 900619
Generator EPA ID: NYD095769782
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00086
Units: P - Pounds
Number of Containers: 001

ROADWAY EXPRESS (Continued) **1004756458**

Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90

Document ID:	NYC6033881
Manifest Status:	Not reported
Trans1 State ID:	ILD984908202
Trans2 State ID:	SCR000074591
Generator Ship Date:	12/29/1999
Trans1 Recv Date:	12/29/1999
Trans2 Recv Date:	12/30/1999
TSD Site Recv Date:	01/04/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	NYD000708198
Trans2 EPA ID:	Not reported
TSDF ID:	NYGF2858
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00016
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	99

Document ID:	07
Manifest Status:	000394829SKS
Trans1 State ID:	NYD095769782
Trans2 State ID:	Not reported
Generator Ship Date:	NJD982270506
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	17
Handling Method:	G
Specific Gravity:	1
Waste Code:	R
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported

ROADWAY EXPRESS (Continued) **1004756458**

Specific Gravity:	Not reported
Year:	Not reported

Document ID:	07
Manifest Status:	000424014SKS
Trans1 State ID:	NYD095769782
Trans2 State ID:	Not reported
Generator Ship Date:	NJD982270506
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	17
Handling Method:	G
Specific Gravity:	1
Waste Code:	R
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	07
Manifest Status:	000431343SKS
Trans1 State ID:	NYD095769782
Trans2 State ID:	Not reported
Generator Ship Date:	NJD982270506
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	15
Handling Method:	G
Specific Gravity:	1
Waste Code:	R

ROADWAY EXPRESS (Continued) **1004756458**

Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	07
Manifest Status:	000486609SKS
Trans1 State ID:	NYD095769782
Trans2 State ID:	Not reported
Generator Ship Date:	NJD982270506
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	TXR000050930
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM
Container Type:	4
Handling Method:	G
Specific Gravity:	1
Waste Code:	R
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	NYC0021519
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900102
Trans1 Recv Date:	900102
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900102
Part A Recv Date:	900122
Part B Recv Date:	900108
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00086
Units:	P - Pounds

ROADWAY EXPRESS (Continued) **1004756458**

Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYC0170144
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYLK8991
Trans2 State ID:	Not reported
Generator Ship Date:	900321
Trans1 Recv Date:	900321
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900321
Part A Recv Date:	900529
Part B Recv Date:	900529
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90

Document ID:	NYC0649383
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	NYDL8164
Generator Ship Date:	901011
Trans1 Recv Date:	901011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	901011
Part A Recv Date:	901025
Part B Recv Date:	901019
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90

Document ID:	NYC0583841
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC

ROADWAY EXPRESS (Continued) **1004756458**

Trans1 State ID:	GF2858
Trans2 State ID:	Not reported
Generator Ship Date:	901129
Trans1 Recv Date:	901129
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	901129
Part A Recv Date:	901231
Part B Recv Date:	910110
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00086
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	90

Document ID:	NYC3490378
Manifest Status:	Completed copy
Trans1 State ID:	JU4818
Trans2 State ID:	Not reported
Generator Ship Date:	950302
Trans1 Recv Date:	950302
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950302
Part A Recv Date:	950315
Part B Recv Date:	950309
Generator EPA ID:	NYD095769782
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D039 - TETRACHLOROETHYLENE 0.73 MG/L TCLP
Quantity:	00014
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	95

Document ID:	NYC3240022
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	AP6277NY
Generator Ship Date:	940916
Trans1 Recv Date:	940916
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940916
Part A Recv Date:	941003
Part B Recv Date:	940926
Generator EPA ID:	NYD095769782

ROADWAY EXPRESS (Continued) **1004756458**

Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00015
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	94

Click this hyperlink while viewing on your computer to access
142 additional NY_MANIFEST: record(s) in the EDR Site Report.

U460 **CON EDISON** **RCRA-CESQG** **1014396346**
SE **GARDNER AVE & METROPOLITAN AVE** **NYP004186102**
1/8-1/4 **BROOKLYN, NY 11211**
0.229 mi.
1207 ft. **Site 11 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

RCRA-CESQG:

Date form received by agency:	07/24/2009
Facility name:	CON EDISON
Facility address:	GARDNER AVE & METROPOLITAN AVE BROOKLYN, NY 11211
EPA ID:	NYP004186102
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	CAROLINE ISKANDER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4714
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

CON EDISON (Continued) **1014396346**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

U461 **CONSOLIDATED EDISON** **MANIFEST** **S110046374**
SE **GARDNER AVE AND METROPOLITAN A** **N/A**
1/8-1/4 **BROOKLYN, NY 11211**
0.229 mi.
1207 ft. **Site 12 of 12 in cluster U**

Relative:
Higher

Actual:
12 ft.

NY MANIFEST:

EPA ID:	NYP004197893
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLYN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	2009-10-09
Trans1 Recv Date:	2009-10-09
Trans2 Recv Date:	2009-10-12
TSD Site Recv Date:	2009-10-13
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004197893
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	700.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	000893912GBF
Import Ind:	N

CONSOLIDATED EDISON (Continued) **S110046374**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Z462 **NYCHA - COOPER PARK HOUSES** **RCRA-NonGen** **1000238813**
West **40 DEBEVOISE AVE** **MANIFEST** **NYD986887594**
1/8-1/4 **BROOKLYN, NY 11211**
0.231 mi.
1222 ft. **Site 1 of 3 in cluster Z**

Relative:
Higher

Actual:
29 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYCHA - COOPER PARK HOUSES
Facility address:	40 DEBEVOISE AVE BROOKLYN, NY 11211
EPA ID:	NYD986887594
Mailing address:	BROADWAY NEW YORK, NY 10007
Contact:	FRANK OCELLO
Contact address:	BROADWAY NEW YORK, NY 10007
Contact country:	US
Contact telephone:	(212) 306-3229
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYC HOUSING AUTHORITY
Owner/operator address:	250 BROADWAY NEW YORK, NY 10007
Owner/operator country:	US
Owner/operator telephone:	(212) 306-3229
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC HOUSING AUTHORITY
Owner/operator address:	250 BROADWAY NEW YORK, NY 10007
Owner/operator country:	US
Owner/operator telephone:	(212) 306-3229
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

NYCHA - COOPER PARK HOUSES (Continued) **1000238813**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYCHA - COOPER PARK HOUSES
Classification: Not a generator, verified

Date form received by agency: 08/12/1999
Facility name: NYCHA - COOPER PARK HOUSES
Classification: Small Quantity Generator

Date form received by agency: 04/03/1998
Facility name: NYCHA - COOPER PARK HOUSES
Classification: Not a generator, verified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD986887594
Country: USA
Mailing Name: NYC HOUSING AUTH
Mailing Contact: RAY VALEZ
Mailing Address: 250 BROADWAY
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-306-3142

Document ID: NJA2987388
Manifest Status: Not reported
Trans1 State ID: NJ0000027193
Trans2 State ID: Not reported
Generator Ship Date: 08/20/1999
Trans1 Recv Date: 08/20/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/23/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported

NYCHA - COOPER PARK HOUSES (Continued) **1000238813**

Generator EPA ID:	NYD986887594
Trans1 EPA ID:	NJD002200046
Trans2 EPA ID:	Not reported
TSDF ID:	S5811
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00085
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	CW - Wooden boxes
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	99

Y463 **KLINK COSMO SYSTEMS** **RCRA-NonGen** **1000316575**
NW **368 RICHARDSON ST** **FINDS** **NYD017605551**
1/8-1/4 **BROOKLYN, NY 11222** **MANIFEST**
0.237 mi.
1253 ft. **Site 2 of 2 in cluster Y**

Relative:
Higher

Actual:
38 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	KLINK COSMO SYSTEMS
Facility address:	368 RICHARDSON ST BROOKLYN, NY 112225729
EPA ID:	NYD017605551
Mailing address:	RICHARDSON ST BROOKLYN, NY 11222
Contact:	Not reported
Contact address:	RICHARDSON ST BROOKLYN, NY 11222
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	Not reported

KLINK COSMO SYSTEMS (Continued) **1000316575**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: KLINK COSMO SYSTEMS
Classification: Not a generator, verified

Date form received by agency: 07/23/1999
Facility name: KLINK COSMO SYSTEMS
Classification: Not a generator, verified

Date form received by agency: 06/07/1985
Facility name: KLINK COSMO SYSTEMS
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/21/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/29/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

KLINK COSMO SYSTEMS (Continued) **1000316575**

Registry ID: 110004350764

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD017605551
Country:	USA
Mailing Name:	KLINK COSMO CLNRS
Mailing Contact:	KLINK COSMO CLNRS
Mailing Address:	368 RICHARDSON STREET
Mailing Address 2:	Not reported
Mailing City:	BROOKLYN
Mailing State:	NY
Mailing Zip:	11222
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-388-6500

Document ID:	NYA9834748
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	891215
Trans1 Recv Date:	891215
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891215
Part A Recv Date:	891220
Part B Recv Date:	891228
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NYA9670274
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891023
Trans1 Recv Date:	891023
Trans2 Recv Date:	Not reported

KLINK COSMO SYSTEMS (Continued) **1000316575**

TSD Site Recv Date:	891023
Part A Recv Date:	891025
Part B Recv Date:	891027
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYC0079029
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900207
Trans1 Recv Date:	900207
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900207
Part A Recv Date:	900215
Part B Recv Date:	900215
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYA9715015
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	890920
Trans1 Recv Date:	890920
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890920
Part A Recv Date:	890925
Part B Recv Date:	890926
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210

KLINK COSMO SYSTEMS (Continued) **1000316575**

Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	89

Document ID:	NYA9826345
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	891110
Trans1 Recv Date:	891110
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	891110
Part A Recv Date:	891121
Part B Recv Date:	891120
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00420
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NYC0307912
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900529
Trans1 Recv Date:	900529
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900529
Part A Recv Date:	900726
Part B Recv Date:	900606
Generator EPA ID:	NYD017605551

KLINK COSMO SYSTEMS (Continued) **1000316575**

Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00210
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 90

Document ID: NYC0139026
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 900228
Trans1 Recv Date: 900228
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900228
Part A Recv Date: 900316
Part B Recv Date: 900313
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00210
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 90

Document ID: NYC0180652
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 900326
Trans1 Recv Date: 900326
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900326
Part A Recv Date: 900413
Part B Recv Date: 900406
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported

KLINK COSMO SYSTEMS (Continued) **1000316575**

TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 90

Document ID: NYC0333009
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 900618
Trans1 Recv Date: 900618
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900618
Part A Recv Date: 900801
Part B Recv Date: 900627
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00210
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 90

Document ID: NYC0236002
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: AM6252NY
Trans2 State ID: Not reported
Generator Ship Date: 900515
Trans1 Recv Date: 900515
Trans2 Recv Date: Not reported
TSD Site Recv Date: 900515
Part A Recv Date: 900628
Part B Recv Date: 900706
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00350
Units: P - Pounds
Number of Containers: 005
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 90

KLINK COSMO SYSTEMS (Continued) **1000316575**

Document ID:	NYC0531731
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	EU1732NY
Trans2 State ID:	Not reported
Generator Ship Date:	901011
Trans1 Recv Date:	901011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	901011
Part A Recv Date:	901119
Part B Recv Date:	901019
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYC0439569
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900813
Trans1 Recv Date:	900813
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900813
Part A Recv Date:	900830
Part B Recv Date:	900830
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00420
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYC0484661
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900917
Trans1 Recv Date:	900917
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900917
Part A Recv Date:	901001

KLINK COSMO SYSTEMS (Continued) **1000316575**

Part B Recv Date:	900920
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYC0574492
Manifest Status:	Completed copy
Trans1 State ID:	EU1732NY
Trans2 State ID:	Not reported
Generator Ship Date:	901105
Trans1 Recv Date:	901105
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	901105
Part A Recv Date:	901119
Part B Recv Date:	901120
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYC0759576
Manifest Status:	Completed copy
Trans1 State ID:	LP3931NY
Trans2 State ID:	Not reported
Generator Ship Date:	910416
Trans1 Recv Date:	910416
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910416
Part A Recv Date:	910424
Part B Recv Date:	910424
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00560
Units:	P - Pounds
Number of Containers:	008

KLINK COSMO SYSTEMS (Continued) **1000316575**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYC0961929
Manifest Status:	Completed copy
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	910510
Trans1 Recv Date:	910510
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910510
Part A Recv Date:	910520
Part B Recv Date:	910522
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00700
Units:	P - Pounds
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYC1069479
Manifest Status:	Completed copy
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	910709
Trans1 Recv Date:	910709
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910709
Part A Recv Date:	910716
Part B Recv Date:	910717
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.

KLINK COSMO SYSTEMS (Continued) **1000316575**

Specific Gravity: 100
Year: 91

Document ID: NYC1127351
Manifest Status: Completed copy
Trans1 State ID: LP3931NY
Trans2 State ID: Not reported
Generator Ship Date: 910808
Trans1 Recv Date: 910808
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910808
Part A Recv Date: 910815
Part B Recv Date: 910819
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00210
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 91

Document ID: NYC1250223
Manifest Status: Completed copy
Trans1 State ID: HW8207
Trans2 State ID: Not reported
Generator Ship Date: 911003
Trans1 Recv Date: 911003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 911003
Part A Recv Date: 911011
Part B Recv Date: 911011
Generator EPA ID: NYD017605551
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00210
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 91

Document ID: NYC1293726
Manifest Status: Completed copy
Trans1 State ID: LP3931NY
Trans2 State ID: Not reported
Generator Ship Date: 911031

KLINK COSMO SYSTEMS (Continued) **1000316575**

Trans1 Recv Date:	911031
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	911031
Part A Recv Date:	Not reported
Part B Recv Date:	911108
Generator EPA ID:	NYD017605551
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Click this hyperlink while viewing on your computer to access
57 additional NY_MANIFEST: record(s) in the EDR Site Report.

464
NW
1/8-1/4
0.240 mi.
1268 ft.

FORMER KLINK COSMO CLEANERS **SHWS** **S109416412**
364 RICHARDSON STREET **N/A**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
38 ft.

SHWS:

Program:	HW
Site Code:	405851
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	1.080
HW Code:	224130
Record Add:	10/28/2008 9:51:00 AM
Record Upd:	6/23/2010 11:37:00 AM
Updated By:	JAAVERSA

Site Description: The site is located in a mixed residential/commercial/industrial area of the East Williamsburg section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Vandervoort Avenue and Richardson Street. The site is completely covered by a one-story brick building. The site is currently occupied, and is utilized for light manufacturing. A small residential area is located one block downgradient (north) of the site. The site was historically operated by Klink Cosmo Cleaners from the mid-1950's until sometime around 1995. The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). This location was specifically targeted for investigation based on interviews with multiple residents indicating

FORMER KLINK COSMO CLEANERS (Continued) **S109416412**

	the site s former usage as noted above (including one former employee), and the Phase 1 EDR report which lists the cleaners as a generator of F002 waste (spent halogenated solvents).
Env Problem:	The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found on-site in shallow groundwater at concentrations up to 33,000 ppb. PCE has also been found at 310,000 ug/m^3 in an on-site soil gas monitoring well. Groundwater standards have been exceeded for PCE. The plume of PCE-contaminated groundwater has migrated at least 1,200' downgradient of the site. Soil vapor with elevated levels of PCE has been found in sub-slab samples collected from the nearby downgradient residential area. The site poses a significant environmental threat due to ongoing release of PCE into soil and groundwater.
Health Problem:	Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	10/28/2008 12:21:00 PM
Record Upd:	10/31/2008 4:33:00 PM
Updated By:	dkharrin
Own Op:	Owner
Sub Type:	01
Owner Name:	PAVLOVICH & COMPANY
Owner Company:	PAVLOVICH & COMPANY
Owner Address:	460 MORGAN AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222-5706
Owner Country:	United States of America
HW Code:	224130
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	8/26/2009 4:51:00 PM
Record Updated:	8/26/2009 4:51:00 PM
Updated By:	dkharrin
Crossref ID:	224129
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224131
Cross Ref Type Code:	02

FORMER KLINK COSMO CLEANERS (Continued) **S109416412**

Cross Ref Type: HW Site ID
Record Added Date: 10/31/2008 2:41:00 PM
Record Updated: 10/31/2008 2:41:00 PM
Updated By: MOBARRIE
Crossref ID: 224132
Cross Ref Type Code: 02
Cross Ref Type: HW Site ID
Record Added Date: 10/31/2008 2:41:00 PM
Record Updated: 10/31/2008 2:41:00 PM
Updated By: MOBARRIE

465
WSW
1/8-1/4
0.243 mi.
1281 ft.

JOSEPH R FELLE **AST U003393564**
953 METROPOLITAN AVE **HIST AST N/A**
WILLIAMSBURG, NY 11211

Relative:
Higher

Actual:
25 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-305596
Program Type: PBS
UTM X: 589789.35976000002
UTM Y: 4507587.2312200004
Expiration Date: 2012/11/18

Affiliation Records:
Site Id: 13970
Affiliation Type: Owner
Company Name: CORMEN ENTERPRISES INC.
Contact Type: Not reported
Contact Name: Not reported
Address1: 245 WILSON AVE.
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11237
Country Code: 001
Phone: (718) 574-6266
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 13970
Affiliation Type: On-Site Operator
Company Name: CORMEN ENTERPRISES INC.
Contact Type: Not reported
Contact Name: ANASTASIC HANDRINOS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 573-7911

JOSEPH R FELLE (Continued) **U003393564**

Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13970
Affiliation Type:	Emergency Contact
Company Name:	CORMEN ENTERPRISES INC.
Contact Type:	Not reported
Contact Name:	ANASTASIC HANDRINOS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 573-7911
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	13970
Affiliation Type:	Mail Contact
Company Name:	CORMEN ENTERPRISES INC.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	245 WILSON AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11237
Country Code:	001
Phone:	(718) 573-7911
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
H05 - Tank Leak Detection - In-Tank System (ATG)
G99 - Tank Secondary Containment - Other
B00 - Tank External Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
I05 - Overfill - Vent Whistle
C01 - Pipe Location - Aboveground

Tank Info:

Tank Number: 001

JOSEPH R FELLE (Continued) **U003393564**

Tank Id:	30727
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	11/1/1957
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	2/6/2008

HIST AST:

PBS Number:	2-305596
SWIS Code:	6101
Operator:	JOSEPH R FELLE
Facility Phone:	(718) 894-3653
Facility Addr2:	953 METROPOLITAN AVE
Facility Type:	APARTMENT BUILDING
Emergency:	RITA FELLE
Emergency Tel:	(718) 894-3653
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	JOSEPH R FELLE
Owner Address:	6127 GRAND AVE
Owner City,St,Zip:	MASPETH, NY 11378
Federal ID:	Not reported
Owner Tel:	(718) 894-3653
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	JOSEPH R FELLE
Mailing Address:	6127 GRAND AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	MASPETH, NY 11378
Mailing Telephone:	(718) 894-3653
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	01/16/1998
Expiration:	02/03/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False

JOSEPH R FELLE (Continued) **U003393564**

CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19571101
Capacity (Gal):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Other
Leak Detection:	4
Overfill Protection:	46
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

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466 **CASALINO INTERIOR DEMOLITION** **SWF/LF** **S105841899**
SSE **213 MEADOW ST** **FINANCIAL ASSURANCE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.255 mi.
1346 ft.

Relative:
Higher

Actual:
14 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184782292
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	CASALINO; ANTHONY OWNER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W33

CASALINO INTERIOR DEMOLITION (Continued) **S105841899**

Active:	No
East Coordinate:	590550
North Coordinate:	4507452
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00009
Authorization Date:	Not reported
Expiration Date:	Not reported

NY FINANCIAL ASSURANCE:

Owner Name:	Not reported
Region:	2
Estimate Type:	Closure
Estimate Amount:	10000
Estimate Date:	Not reported
Mechanism:	Letter of credit
Mechanism Amount:	10000
Financial Institution:	Citibank
Issue Date:	Not reported
Expiration Date:	11/30/1993
Activity Number:	24W33
Activity Description:	C&D processing - registered

AA467 **222 MORGAN AVENUE** **LTANKS** **S103560490**
SSW **222 MORGAN AVENUE** **NY Hist Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.259 mi.
1367 ft. **Site 1 of 3 in cluster AA**

Relative:
Higher

Actual:
14 ft.

LTANKS:

Site ID:	302889
Spill No:	9312206
Spill Date:	1/17/1994
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/17/1994
Facility Addr2:	Not reported
Cleanup Ceased:	1/17/1994
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1/17/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/20/1994
Spill Record Last Update:	8/28/2003
Spiller Name:	Not reported
Spiller Company:	222 MORGAN AVENUE

222 MORGAN AVENUE (Continued) **S103560490**

Spiller Address: 222 MORGAN AVENUE
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 244717
Remarks: FIRE @ PLANT NOTIFIED DEP, UNK. ACTIONS. 11/18 UPDATE ROBERT KEPICH / DEP 595-6777 / 50-60 GAL DIESSEL HYDRAULIC NO CALL BACK. 100PM SPOKE TO ENZO HE SAID FIRE DIESSEL HYDRAULIC OIL P/U DISPOSE INDRUM

Material:
Site ID: 302889
Operable Unit ID: 990817
Operable Unit: 01
Material ID: 391198
Material Code: 0022
Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 20
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9312206
Investigator: O'DOWD
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 01/17/1994 10:24
Reported to Dept Date/Time: 01/17/94 11:02
SWIS: 61
Spiller Name: SAME
Spiller Contact: Not reported
Spiller Phone: Not reported

222 MORGAN AVENUE (Continued) **S103560490**

Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: 01/17/94
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 01/17/94
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 01/20/94
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: Not reported
Remark: FIRE @ PLANT NOTIFIED DEP, UNK. ACTIONS. 11/18 UPDATE ROBERT KEPICH / DEP 595-6777 / 50-60 GAL DIESSEL HYDRAULIC NO CALL BACK. 100PM SPOKE TO ENZO HE SAID FIRE DIESSEL HYDRAULIC OIL P/U DISPOSE INDRUM

AA468 **BFI** **SWF/LF** **S103592538**
SSW **222 MORGAN AVE** **LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY** **HIST LTANKS**
0.259 mi.
1367 ft. **Site 2 of 3 in cluster AA**

Relative:
Higher

Actual:
14 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184973100
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	LOUIS D'AMBROSIO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W76
Active:	No
East Coordinate:	590116
North Coordinate:	4507117
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6104-00097
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184973100
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	LOUIS D'AMBROSIO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T76
Active:	No
East Coordinate:	590116
North Coordinate:	4507117
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported

BFI (Continued) **S103592538**

Authorization #: 2-6104-00097
Authorization Date: Not reported
Expiration Date: Not reported

LTANKS:
Site ID: 302888
Spill No: 0009585
Spill Date: 11/21/2000
Spill Cause: Tank Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/28/2003
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: SIGONA
Referred To: Not reported
Reported to Dept: 11/21/2000
CID: 205
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 11/21/2000
Spill Record Last Update: 8/28/2003
Spiller Name: JAMES JULIANO, PROP MGR
Spiller Company: QUATTRO PROPERTIES, LLC
Spiller Address: 213-19 99TH AVENUE
Spiller City,St,Zip: QUEENS VILLAGE, NY 11429-
Spiller County: 001
Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 244717
Remarks: CALLER PULLED TANK AND FOUND CONTAMINATED SOIL.WOULD LIKE A CALL FROM DEC 11-21-00 TIS STRANGE BUT R. SPADALIK IS NO LONGER AT F&N WHEN I CALLED THE TEL#AND EXT,THATS WHAT THE PERSON AT THAT TEL#SAID ROBERT.L
Not reported

Material:
Site ID: 302888
Operable Unit ID: 830684
Operable Unit: 01
Material ID: 543525
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No

BFI (Continued) **S103592538**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 2
Spill Number: 0009585
Spill Date: 11/21/2000
Spill Time: 11:34
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Non Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: SIGONA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 11/21/00
Reported to Department Time: 11:35
SWIS: 62
Spiller Contact: CALLER
Spiller Phone: ( ) -
Spiller Extention: Not reported
Spiller Name: BFI.
Spiller Address: 222 MORGAN AVE
Spiller City,St,Zip: BROOKLYN, NY -
Spiller Cleanup Date: / /
Facility Contact: CALLER
Facility Phone: ( ) -
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended

BFI (Continued) **S103592538**

Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 11/21/00
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 12/24/01
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 12/1/00 - Saccacio - Changed DEC lead from Saccacio to Sigona. On December 21, 2001, DEC received a report from AES, dated June 25, 2001 regarding the referenced spill investigation.
Spill Cause: CALLER PULLED TANK AND FOUND CONTAMINATED SOIL.

469
SE
1/4-1/2
0.262 mi.
1384 ft.

Relative:
Higher

Actual:
12 ft.

WASTE MANAGEMENT OF NY; INC. (REG **SWF/LF** **S105841926**
1301 METROPOLITAN AVENUE **N/A**
BROOKLYN, NY 11237

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7185335308
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: TARA HEMMER
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported

WASTE MANAGEMENT OF NY; INC. (REG (Continued) **S105841926**

Activity Desc:	C&D processing - registered
Activity Number:	24WD4
Active:	No
East Coordinate:	590841
North Coordinate:	4507554
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Z470 **COOPER PARK HOUSES** **LTANKS** **U000410820**
West **295 JACKSON STREET** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY 11211** **UST**
0.278 mi. **HIST UST**
1466 ft. **Site 2 of 3 in cluster Z**

Relative:
Higher

Actual:
31 ft.

LTANKS:

Site ID:	64539
Spill No:	9414384
Spill Date:	1/31/1995
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/29/1996
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1/31/1995
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/2/1995
Spill Record Last Update:	12/16/2005
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	204947
Remarks:	TANK TEST-GROSS FAILURE

Material:

Site ID:	64539

COOPER PARK HOUSES (Continued) **U000410820**

Operable Unit ID: 1007967
Operable Unit: 01
Material ID: 373126
Material Code: 0002
Material Name: #4 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 64539
Spill Tank Test: 1543587
Tank Number: 002
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

Site ID: 250036
Spill No: 9515837
Spill Date: 3/11/1996
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 6/10/2008
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: jkkann
Referred To: CONSOLIDATED WITH 9515713
Reported to Dept: 3/11/1996
CID: 312
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 3/11/1996
Spill Record Last Update: 6/10/2008
Spiller Name: CALLER
Spiller Company: NYC HOUSING AUTHORITY
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: MANHATTAN, NY 10007-
Spiller County: 001
Spiller Contact: FRANK OCELLO
Spiller Phone: (212) 306-3233

COOPER PARK HOUSES (Continued) **U000410820**

Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	204947
Remarks:	no apparent leak - tank failed

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	250036
Spill Tank Test:	1544431
Tank Number:	1
Tank Size:	20000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

HIST LTANKS:

Region of Spill:	2
Spill Number:	9515837
Spill Date:	03/11/1996
Spill Time:	14:30
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	SACCACIO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported

COOPER PARK HOUSES (Continued) **U000410820**

Reported to Department Date: 03/11/96
Reported to Department Time: 15:37
SWIS: 61
Spiller Contact: FRANK OCELLO
Spiller Phone: (212) 306-3233
Spiller Extention: Not reported
Spiller Name: NYC HOUSING AUTHORITY
Spiller Address: 250 BROADWAY
Spiller City,St,Zip: MANHATTAN, NY 10007-
Spiller Cleanup Date: / /
Facility Contact: CALLER
Facility Phone: Not reported
Facility Extention: 8480
Spill Notifier: Responsible Party
PBS Number: 2-474630
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/11/96
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/17/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 1
Tank Size: 20000
Test Method: Horner EZ Check
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Spill Cause: no apparent leak - tank failed

Region of Spill: 2
Spill Number: 9414384
Spill Date: 01/31/1995
Spill Time: 13:00
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported

COOPER PARK HOUSES (Continued) **U000410820**

Spill Source: Other Non Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 03/29/96
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: HEALY
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 01/31/95
Reported to Department Time: 14:20
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: NYC HOUSING AUTHORITY
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (212) 306-3142
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: 2-474630
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/02/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/29/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: 002
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False

COOPER PARK HOUSES (Continued) **U000410820**

Material: #4 FUEL OIL
Class Type: #4 FUEL OIL
Times Material Entry In File: 1751
CAS Number: Not reported
Last Date: 19941205
DEC Remarks: 10/10/95: This is additional information about material spilled from the translation of the old spill file: TTF.
Spill Cause: TANK TEST-GROSS FAILURE

UST:
Facility Id: 2-474630
Region: STATE
DEC Region: 2
Site Status: Active
Program Type: PBS
Expiration Date: 2014/03/28
UTM X: 589603.91353999998
UTM Y: 4507900.8643300002

Affiliation Records:
Site Id: 20929
Affiliation Type: Mail Contact
Company Name: NYC HOUSING AUTHORITY
Contact Type: Not reported
Contact Name: FUEL OIL REMEDIATION COORDINATOR
Address1: 23-02 49TH AVENUE
Address2: TECH SERVS DEPT - 5TH FLOOR
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 1/19/2010

Site Id: 20929
Affiliation Type: Owner
Company Name: NEW YORK CITY HOUSING AUTHORITY
Contact Type: FUEL OIL REMEDIATION COORDINATOR
Contact Name: Not reported
Address1: 23-02 49TH AVENUE
Address2: Not reported
City: LONG ISLAND CITY
State: NY
Zip Code: 11101
Country Code: 001
Phone: (718) 707-5725
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: NRLOMBAR
Date Last Modified: 9/21/2010

Site Id: 20929

COOPER PARK HOUSES (Continued) **U000410820**

Affiliation Type:	On-Site Operator
Company Name:	COOPER PARK HOUSES
Contact Type:	Not reported
Contact Name:	FUEL OIL REMEDIATION UNIT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 707-5725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/16/2008

Site Id:	20929
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY HOUSING AUTHORITY
Contact Type:	Not reported
Contact Name:	EMERGENCY SERVICES DEPARTMENT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 707-5900
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	bkfalvey
Date Last Modified:	1/14/2009

Equipment Records:

J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
K00 - Spill Prevention - None
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
F06 - Pipe External Protection - Wrapped
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
F06 - Pipe External Protection - Wrapped
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
J02 - Dispenser - Suction
I04 - Overfill - Product Level Gauge (A/G)
K00 - Spill Prevention - None
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground

COOPER PARK HOUSES (Continued) **U000410820**

L00 - Piping Leak Detection - None
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None

Tank Info:

Site ID:	20929
Tank Number:	1
Tank ID:	37786
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1953
Capacity Gallons:	20000
Tightness Test Method:	21
Next Test Date:	7/13/2012
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/13/2007
Register:	True
Modified By:	NRLOMBAR
Last Modified:	9/16/2008
Site ID:	20929
Tank Number:	2
Tank ID:	37787
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1953
Capacity Gallons:	20000
Tightness Test Method:	21
Next Test Date:	7/24/2012
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/24/2007
Register:	True
Modified By:	NRLOMBAR
Last Modified:	9/16/2008

HIST UST:

PBS Number:	2-474630
SPDES Number:	Not reported
Emergency Contact:	EMERGENCY SERVICE SQUAD
Emergency Telephone:	(212) 289-3940
Operator:	RAFAEL VELEZ
Operator Telephone:	(212) 306-3142
Owner Name:	NYC HOUSING AUTHORITY
Owner Address:	250 BROADWAY
Owner City,St,Zip:	NEW YORK, NY 10007
Owner Telephone:	(212) 306-3142
Owner Type:	Local Government
Owner Subtype:	51
Mailing Name:	NYC HOUSING AUTHORITY

COOPER PARK HOUSES (Continued) **U000410820**

Mailing Address:	250 BROADWAY
Mailing Address 2:	16TH FLOOR
Mailing City,St,Zip:	NEW YORK, NY 10007
Mailing Contact:	RAFAEL VELEZ
Mailing Telephone:	(212) 306-3142
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	APARTMENT BUILDING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	11/08/1999
Expiration Date:	03/28/2004
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	40000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19531001
Capacity (gals):	20000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	03/01/1997
Next Test Date:	03/01/2002
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False

COOPER PARK HOUSES (Continued) **U000410820**

Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19531001
Capacity (gals):	20000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	Wrapped (Piping)
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	07/01/1997
Next Test Date:	07/01/2002
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

Z471 **COOPER PARK HOUSING** **LTANKS** **S104073513**
West **295 JACKSON ST** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.278 mi.
1466 ft. **Site 3 of 3 in cluster Z**

Relative:
Higher

Actual:
31 ft.

LTANKS:

Site ID:	250035
Spill No:	9515713
Spill Date:	3/7/1996
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/14/2009
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	jkkann
Referred To:	Not reported
Reported to Dept:	3/7/1996
CID:	297
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False

COOPER PARK HOUSING (Continued) **S104073513**

Remediation Phase: 0
Date Entered In Computer: 3/7/1996
Spill Record Last Update: 9/14/2009
Spiller Name: PAUL GOLDSTEIN
Spiller Company: NEW YORK CITY
Spiller Address: 295 JACKSON ST
Spiller City,St,Zip: BROOKLYN, NY 11211-
Spiller County: 001
Spiller Contact: PAUL GOLSTEIN
Spiller Phone: (212) 306-3233
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 204947
Remarks: Not reported

Material:
Site ID: 250035
Operable Unit ID: 1026766
Operable Unit: 01
Material ID: 355831
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 2
Spill Number: 9515713
Spill Date: 03/07/1996
Spill Time: 13:20
Spill Cause: Tank Test Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Non Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /

COOPER PARK HOUSING (Continued) **S104073513**

Cleanup Meets Standard: False
Investigator: SACCACIO
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/07/96
Reported to Department Time: 13:33
SWIS: 61
Spiller Contact: PAUL GOLSTEIN
Spiller Phone: (212) 306-3233
Spiller Extention: Not reported
Spiller Name: NEW YORK CITY
Spiller Address: 295 JACKSON ST
Spiller City,St,Zip: BROOKLYN, NY 11211-
Spiller Cleanup Date: / /
Facility Contact: PAUL GOLDSTEIN
Facility Phone: (212) 306-3233
Facility Extention: Not reported
Spill Notifier: Local Agency
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/07/96
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/29/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207

COOPER PARK HOUSING (Continued) **S104073513**

DEC Remarks: Not reported
Spill Cause: Not reported

AA472 **APT BUILDING TANK** **LTANKS** **S106972250**
South **85 MEADOW STREET** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.289 mi.
1527 ft. **Site 3 of 3 in cluster AA**

Relative:
Higher

Actual:
14 ft.

LTANKS:

Site ID:	349596
Spill No:	0504662
Spill Date:	7/19/2005
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/9/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	7/19/2005
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/20/2005
Spill Record Last Update:	12/9/2005
Spiller Name:	MR FRIEDMAN
Spiller Company:	GARAGE
Spiller Address:	84 MEADOW STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MR FRIEDMAN
Spiller Phone:	(718) 614-1896
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	296031
Remarks:	LINES ON 3000 GALLON TANK ARE ROTTED AND THEY NEED TO REMOVE SOME CONTAMINATED SOIL

Material:

Site ID:	349596
Operable Unit ID:	1107185
Operable Unit:	01
Material ID:	2097080
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum

APT BUILDING TANK (Continued) **S106972250**

Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

473
SSW
1/4-1/2
0.290 mi.
1529 ft.

345 TENEYCK STREET **LTANKS** **S102672003**
345 TENEYCK STREET **HIST LTANKS** **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
19 ft.

LTANKS:

Site ID:	300237
Spill No:	9210082
Spill Date:	12/1/1992
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/1/1992
Facility Addr2:	Not reported
Cleanup Ceased:	12/1/1992
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	12/1/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/2/1992
Spill Record Last Update:	12/2/1992
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported

345 TENEYCK STREET (Continued) **S102672003**

Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 242863
Remarks: FAULTY PETROMETER-OIL OUT FILL PIPE TO CONCRETE SIDEWALK-SPEEDI-DRI APPLIED-SPILL TEAM ENROUTE TO P/U AND DISPOSE

Material:
Site ID: 300237
Operable Unit ID: 974178
Operable Unit: 01
Material ID: 407093
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 2
Spill Number: 9210082
Spill Date: 12/01/1992
Spill Time: 09:30
Spill Cause: Tank Overfill
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/01/92
Cleanup Ceased: 12/01/92
Cleanup Meets Standard: True
Investigator: CAMMISA
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported

345 TENEYCK STREET (Continued) **S102672003**

Notifier Extension: Not reported
Reported to Department Date: 12/01/92
Reported to Department Time: 09:45
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/02/92
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 12/02/92
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: FAULTY PETROMETER-OIL OUT FILL PIPE TO CONCRETE SIDEWALK-SPEEDI-DRI APPLIED-SPILL TEAM ENROUTE TO P/U AND DISPOSE

AB474 **FRITO LAY** **BROWNFIELDS** **S109416391**
South **202-218 MORGAN AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.312 mi.
1645 ft. **Site 1 of 3 in cluster AB**

Relative:
Higher

Actual:
14 ft.

BROWNFIELDS:
Program: BCP
Site Code: 407689
Site Description: The site is located at 202-218 Morgan Avenue, an urban area, in the north end of the Borough of Brooklyn, Kings County. The site is currently undeveloped with no standing structures and is zoned for industrial use. The site property is approximately 2.791 acres in size and approximately 2 miles east of East River. To the north of the property is a warehouse, to the east and south is English Kills tributary to the Newtown Creek and to the west it is bordered by Morgan Avenue, between Ten Eyck Street and Stagg Street. The surrounding parcels are currently used for a combination of commercial and industrial. The site was previously used as a scrap metal yard. Activities related to this type of business and the fact that the site consist mostly of fill material are believed to be the cause of the site wide PCB and metals contamination. The site remedial program is being performed by Frito-Lay, Inc. as a volunteer in the DEC's Brownfield Cleanup Program. As of this update, completed investigations include a phase I preliminary site assessment (2006) and Phase II Environmental Assessment (2007). The site owner was accepted to the Brownfield Program and a site investigation has been completed. A Remdial Work Plan is under review.
Env Problem: Based upon investigations conducted to date, the contaminants at the site known at this time include: chlorinated VOCs; SVOCs, metals and PCBs. The predominant VOCs consist of: cis-1,2-dichloroethene; vinyl chloride and tetrachloroethene. Tetrachloroethene is found in soil at concentrations as high as 140 ppm at SB-11, located at the center of the site, which exceed the soil SCO for unrestricted use of 1.3 ppm. The predominant SVOCs are the carcinogenic PAHs: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene. These PAHs are found consistently throughout the site from the surface to a depth of 11ft at concentrations as high as 110 ppm. PCBs and metals appear to be the primary contaminants of concern. These contaminants are found throughout the surface and sub-surface soils of the entire site. Maximum concentration of PCB's detected in soil was 3,200 ppm which greatly exceeds the soil cleanup objective (SCO) for unrestricted use (0.1 ppm). The metals that exceed SCGs are: arsenic (upto 168 ppm, unrestricted SCO 13 ppm); barium (upto 1,980 ppm, unrestricted SCO 350 ppm); chromium (upto 1,610 ppm, unrestricted SCO 30 ppm); cadmium (upto 60.8 ppm, unrestricted SCO 2.5 ppm); copper (upto 14,000 ppm, unrestricted SCO 50 ppm); lead (upto 110,000 ppm, unrestricted SCO 63 ppm); mercury (upto 15.1 ppm, unrestricted SCO 0.18 ppm); nickel (upto 933 ppm, unrestricted SCO 30 ppm) and zinc (upto 43,800 ppm, unrestricted SCO 109 ppm). These metals are found throughout the site from the surface to a depth of 11ft. Greater concentrations predominately exist at the southern portion of the site. Groundwater data indicates vinyl chloride, cis-1,2-dichloroethene and arsenic are above Class GA groundwater standards. Vinyl chloride was found above the groundwater standard of 2 ppb in monitoring well MW-2 in the southwest corner of the site at a concentration of 42 ppb. Vinyl chloride and cis-1,2-dichloroethene are breakdown products of PCE and TCE. While chlorinated VOCs (primarily PCE) have been found in site

FRITO LAY (Continued) **S109416391**

soil, data suggests that CVOCs found in on-site groundwater (DCE/VC) may be attributable to a potential off-site source. Arsenic concentrations in groundwater are 42.9 ppb and 74.6 ppb at monitoring wells MW-3 and MW-4 which exceed the groundwater standard of 25 ppb. The site is approximately 13 feet above mean sea level. Depth to groundwater is approximately 11 to 15 feet below ground surface. The nearest water body is the English Kills tributary to the Newtown Creek, which is adjacent to the east and south sides of the site. Groundwater flow is to the southeast. The site consists of fill material to the water table. Below the fill material the site is underlain by unconsolidated cretaceous to quaternary age sand and gravel deposits that comprise Long Island groundwater system. The site presents a significant environmental threat due to the ongoing release of arsenic contamination from source areas in the soil to groundwater as well as the high levels of PCBS and metals such as lead and mercury in soil throughout most of the site. More information regarding the site can be found in the documents placed in the site document repository.

Health Problem: Contact with contaminants in on-site surface soil is not expected since the site is completely fenced and monitored. Exposure to site-related contamination in drinking water is not expected since the area is served by municipal water. Since the site is currently unoccupied exposure to site contaminants through soil vapor intrusion is not a concern. However, the potential for soil vapor intrusion to occur in future construction will be evaluated during the upcoming remedial investigation.

AB475 **KARNAK (NEWTOWN METAL CORP.)** **SWF/LF** **S105841727**
South **202 MORGAN AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.312 mi.
1645 ft. **Site 2 of 3 in cluster AB**

Relative:
Higher

Actual:
14 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183660717
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	STANLEY K. HORNG
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T60
Active:	No
East Coordinate:	589900
North Coordinate:	4507500
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported

KARNAK (NEWTOWN METAL CORP.) (Continued) **S105841727**

Authorization #: 2-6101-00015
Authorization Date: Not reported
Expiration Date: Not reported

AB476 **MORGAN OIL TERMINALS CORP** **RCRA-NonGen** **1000889835**
South **200 MORGAN AVE** **FINDS** **NYD074359472**
1/4-1/2 **BROOKLYN, NY 11237** **MOSF UST**
0.317 mi. **NY Spills**
1674 ft. **Site 3 of 3 in cluster AB** **NY Hist Spills**
MOSF

Relative:
Higher

Actual:
13 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: MORGAN OIL TERMINALS CORP
Facility address: 200 MORGAN AVE
BROOKLYN, NY 112371014
EPA ID: NYD074359472
Mailing address: 21ST ST NYSDEC
LONG ISLAND CITY, NY 11101
Contact: Not reported
Contact address: 21ST ST NYSDEC
LONG ISLAND CITY, NY 11101
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: UNKNOWN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: UNKNOWN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, NY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: MORGAN OIL TERMINALS CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: MORGAN OIL TERMINALS CORP
Classification: Not a generator, verified

Date form received by agency: 07/01/1996
Facility name: MORGAN OIL TERMINALS CORP
Site name: NYSDEC - MORGAN TERMINAL SITE
Classification: Large Quantity Generator

Date form received by agency: 04/12/1994
Facility name: MORGAN OIL TERMINALS CORP
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009468290

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MOSF UST:
Facility ID: 2-1500
SWIS Code: 61
Facility Town: NEW YORK CITY
Contact Phone: (718) 366-5108
Emerg Contact: HENRY FOSTER
Emergency Telephone: (718) 857-6472
CBS Number: Not reported
SPDES Num: 0-032824
Total Tanks: 7
Total Capacity: 1925000
Avg Throughput: 0
License Stat: 3
Facility Status: INACTIVE FACILITY

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Facility Type:	STORAGE TERMINAL/PETROLEUM DISTRIBUTOR
Prod Xfer Options:	AC
Expiration Date:	03/31/1991
Applic Rcvd:	01/14/1991
Operator:	HENRY FOSTER
Owner Name:	MORGAN OIL TERMINALS CORP.
Owner Address:	200 MORGAN AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11337-
Owner Telephone:	(718) 366-5108
Owner Type:	Corporate/Commercial
Owner Status:	1
Owner Mark:	First Owner
Mail To Name:	MORGAN OIL TERMINALS CORP.
Mail To Address:	C/O SHATZKIN & FURMAN, P.C.
Mail To Address 2:	60 CUTTER MILL RD., SUITE 206
Mail City,St,Zip:	GREAT NECK, NY 11021-
Mail To Contact:	SCOTT E. FURMAN
Mail To Telephone:	(516) 487-3703
Legal Agent Name:	SCOTT FURMAN
Legal Agent Address:	60 CUTTERMILL ROAD
Legal Agent City,St,Zip:	GREAT NECK, NY 11021-
Date Filed:	00/82

Tank ID:	1
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	645000
Product:	NOS 5 OR 6 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|42|40
Longitude:	73|56|00
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Tank ID: 2
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 7000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Latitude: 40|42|40
Longitude: 73|56|00
Status of Data: Complete
Inspected Date: 02/22/1994
Inspector Initials: Not reported
Inspector Status: Not reported
Pipe Flag: False
License Issued: 03/28/1990
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/23/1993
Federal Id No: Not reported
COI Date: / /

Tank ID: 3
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 55000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Latitude: 40|42|40
Longitude: 73|56|00
Status of Data: Complete
Inspected Date: 02/22/1994

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Inspector Initials: Not reported
Inspector Status: Not reported
Pipe Flag: False
License Issued: 03/28/1990
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/23/1993
Federal Id No: Not reported
COI Date: / /

Tank ID: 4
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 67000
Product: NOS 1,2, OR 4 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: Painted/Asphalt Coating
Second Contain: None
Leak Detection: None
Overfill Protection: High Level Alarm
Dispenser: Suction
Test Date: Not reported
Date Closed: Not reported
Latitude: 40|42|40
Longitude: 73|56|00
Status of Data: Complete
Inspected Date: 02/22/1994
Inspector Initials: Not reported
Inspector Status: Not reported
Pipe Flag: False
License Issued: 03/28/1990
Vessel Id: Not reported
Renew Flag: True
Renew Date: 11/23/1993
Federal Id No: Not reported
COI Date: / /

Tank ID: 5
Tank Location: UNDERGROUND
Install Date: 00/00
Capacity (Gal): 507000
Product: NOS 5 OR 6 FUEL OIL
Tank Status: In Service
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: None
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|42|40
Longitude:	73|56|00
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	6
Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	400000
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|42|40
Longitude:	73|56|00
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

Tank ID:	7

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Tank Location:	UNDERGROUND
Install Date:	00/00
Capacity (Gal):	244000
Product:	NOS 1,2, OR 4 FUEL OIL
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	Painted/Asphalt Coating
Second Contain:	None
Leak Detection:	None
Overfill Protection:	High Level Alarm
Dispenser:	Suction
Test Date:	Not reported
Date Closed:	Not reported
Latitude:	40|42|40
Longitude:	73|56|00
Status of Data:	Complete
Inspected Date:	02/22/1994
Inspector Initials:	Not reported
Inspector Status:	Not reported
Pipe Flag:	False
License Issued:	03/28/1990
Vessel Id:	Not reported
Renew Flag:	True
Renew Date:	11/23/1993
Federal Id No:	Not reported
COI Date:	/ /

MOSF:

Facility ID:	2-1500
Program Type:	MOSF
Dec Region:	2
Expiration Date:	N/A
Tank Status:	Inactive
UTMX:	590073.27268000
UTMY:	4507217.0631400

NY Spills:

Site ID:	59301
Facility Addr2:	Not reported
Facility ID:	8808176
Spill Number:	8808176
Facility Type:	ER
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Spill Date:	1/10/1989
Reported to Dept:	1/13/1989
CID:	Not reported
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Major Facility > 400,000 gal

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Spill Notifier:	Citizen
Cleanup Ceased:	8/7/1995
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/7/1995
Remediation Phase:	0
Date Entered In Computer:	1/19/1989
Spill Record Last Update:	4/7/2004
Spiller Name:	Not reported
Spiller Company:	MORGAN OIL COMPANY
Spiller Address:	MORGAN AVENUE
Spiller City,St,Zip:	WILLIAMSBURG BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	57235
DEC Memo:	Not reported
Remarks:	OIL DUMPED INTO CREEK WHICH EMPTIES INTO EAST RIVER, USUALLY TAKES PLACE DURING THE NIGHT.

Material:

Site ID:	59301
Operable Unit ID:	924580
Operable Unit:	01
Material ID:	452941
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	2
Spill Number:	8808176
Investigator:	RIVERA

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	01/10/1989 12:00
Reported to Dept Date/Time:	01/13/89 09:09
SWIS:	61
Spiller Name:	MORGAN OIL COMPANY
Spiller Contact:	Not reported
Spiller Phone:	(516) 825-2333
Spiller Address:	MORGAN AVENUE
Spiller City,St,Zip:	WILLIAMBURG, NY
Spill Cause:	Deliberate
Reported to Dept:	Surface Water
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Citizen
PBS Number:	Not reported
Cleanup Ceased:	08/07/95
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/07/95
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	01/19/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	08/07/95
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	100
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported

MORGAN OIL TERMINALS CORP (Continued) **1000889835**

Last Date: 19941207
DEC Remarks: 01/13/89: DEC NOTIFIED USCG.
Remark: OIL DUMPED INTO CREEK WHICH EMPTIES INTO EAST RIVER, USUALLY TAKES PLACE DURING THE NIGHT.

MOSF:
Facility ID: 2-1500
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: Inactive
UTMX: 590073.27268000
UTMY: 4507217.0631400

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477 **308 MAUJER ST** **LTANKS** **S105999626**
SW **308 MAUJER ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.327 mi.
1725 ft.

Relative:
Higher

Actual:
31 ft.

LTANKS:
Site ID: 144741
Spill No: 0305120
Spill Date: 8/14/2003
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 1/31/2006
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: JBLISTER
Referred To: Not reported
Reported to Dept: 8/14/2003
CID: 216
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 8/14/2003
Spill Record Last Update: 1/31/2006
Spiller Name: Not reported
Spiller Company: FRED GELFAR
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: FRED GELFAR
Spiller Phone: (516) 455-4775
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 123363
Remarks: TANK TEST FAILURE THEY WILL RETEST

308 MAUJER ST (Continued) **S105999626**

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	144741
Spill Tank Test:	1528589
Tank Number:	1
Tank Size:	2000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

AC478 **VARICK AVENUE** **HSWDS** **S105212104**
SSE **165 VARICK AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY, NY 11237**
0.335 mi.
1769 ft. **Site 1 of 3 in cluster AC**

Relative:
Higher

Actual:
12 ft.

HSWDS:

Facility ID:	HS2043
Region:	2
Facility Status:	None
Owner Type:	Puplic
Owner:	Rhino Trust
Owner Address:	P.O. Box 637
Owner Phone:	(303)920-9307
Operator Type:	Not reported
Operator:	Not reported
Operator:	Not reported
Operator Phone:	Not reported
EPA ID:	None
Registry:	D
Registry Site ID:	224017
RCRA Permitted:	Unknown
Site Code:	Construction and Demolition Debris Site
Owner City State:	Aspen, CO 81612
Operator City State:	Not reported
Quadrange:	Brooklyn, NY
Latitude:	40 43 00
Longitude:	73 56 00
Acres:	3.54

VARICK AVENUE (Continued) **S105212104**

Operator Date:	Unknown
Close Date:	Unknown
Completed:	PSA/IRM
Active:	Unknown
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	Yes
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	Yes
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Surface Water
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	EPTox
Analytical Info Exists for TCLP:	TCLP
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	SD
Groundwater Contamination:	Yes
Groundwater Classification:	Sole
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	No
Any Known Fish or Wildlife:	No
Hazardous Exposure:	No
Site Has Controlled Acess:	Yes
Ambient Air Contamination:	No
Direct Contact:	No
EPA Hazardous Ranking System Score:	1.3
Inventory:	Not reported
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	Not reported
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported

VARICK AVENUE (Continued) **S105212104**

Surface: Not reported
TCLP: Not reported
Waste: Not reported

AC479 **VARICK AVENUE** **DEL SHWS** **S105973022**
SSE **165 VARICK AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 10013**
0.335 mi.
1770 ft. **Site 2 of 3 in cluster AC**

Relative:
Higher

Actual:
12 ft.

DEL SHWS:

Year:	Not reported
Site Code Id:	224017
Site Classification:	D2
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	3.54 Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	40 42’ 43 / 73 55’ 52
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	State, Consent Order
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Complete
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	Rhino Trust
Owner Address:	PO Box 637
Owner City,St,Zip:	Aspen, CO 81612
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	*** Multiple Owners ***
Owner During Use:	Not reported

VARICK AVENUE (Continued) **S105973022**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Dump
HW Disposal Period:	From: 1905 To: 1989
Analytical Data Available:	Groundwater, Surface Water, Soil
Applicable Std Exceeded:	Groundwater
Geotech Info:	Fill materials and marsh sediments.
Depth To Groundwater:	Range: 10 to 15 feet.
Status:	Order Signed
Nature Of Action:	IRM - Soil Removal
Env Prob Assessment:	Not reported
Site Description:	This property is located in Brooklyn (Block #2962 - lots 1, 5, & 37), and is owned by Rhino Trust (Albert Realty Co.). The site is a vacant lot, except for two, one-story shed buildings in a state of disrepair. The site has a development history dating back to the early 1900's; site uses have included an asphalt paving company and a lumber company. As a result of an environmental survey of this site conducted in 1988 and 1989, traces of 4-chloroaniline, pentachlorophenol, butyl-ben zylpthalate;di-N-butylphthalate and flouranthene were found. Metals and total petroleum hydrocarbons were also found in the soils, surface and groundwater. Contamination of soils by metals was found to include: silver, barium, cadmium, chromium, iron, lead and copper. Concentrations of metals in the groundwater exceeded groundwater quality standards for lead and iron. Rhino Trust has carried out a supplemental site assessment under a consent order in the summer of 1992. An interpretation of the analytical results from the previous investigation has been inconclusive due to data gaps in the reports. Rhino Trust performed a Supplemental Site Assessment, and the fieldwork was completed in 1994. The PRP has removed the contaminated soils. Hazardous waste is no longer present and significant threatno longer exists.
Confirmed HW:	lead (D008 Waste): unknown
Environment Assesment:	Contaminated soils have been removed but groundwater contamination evidently due to construction and demolition debris (non-hazard
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	0
NYTM Y:	0
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported

VARICK AVENUE (Continued) **S105973022**

Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	This property is located in Brooklyn (Block #2962 - lots 1, 5, & 37), and is owned by Rhino Trust (Albert Realty Co.). The site is a vacant lot, except for two, one-story shed buildings in a state of disrepair. The site has a develop- ment history d ating back to the early 1900's; site uses have included an asphaltpaving company and a lumber company. As a result of an environmental survey of this site conducted in 1988 and 1989, traces of 4-chloroaniline, pentachlorophenol, butyl-ben zylpthalate; di-N-butylphthalate and flouranthene were found. Metals and total petroleum hydrocarbons were also found in the soils, surface and groundwater. Contamination of soils by metals was found to include: silver, barium, cadmium, chromium , iron, lead and copper. Concentrations of metals in the groundwater exceeded groundwater quality standards for lead and iron. Rhino Trust has carried out a supplemental site assessment under a consent order in the summer of 1992. An interpretationof the analytical results from the previous investigation has been inconclusive due to data gaps in the reports. Rhino Trust performed a Supplemental Site Assessment, and the fieldwork was completed in 1994. The PRP has removed the contaminated soils. Hazardous waste is no longer present and significant threatno longer exists.
Env Assessment:	Not reported
HW Disposed/Quantity:	Not reported
Assess/Env Prog:	Contaminated soils have been removed but groundwater contamination evidently due to construction and demolition debris (non-hazardous), still exists.
Assess/Health Prob:	The environmental surveys report show that on-site soils are contaminated to various degrees by some metals, semi-volatile organic compounds and total petroleum hydrocarbons. Potential contamination of the English Kills (the adjacent surface waterbody) and adjacent properties, via soil migration and runoff, is a possibility. The site is located in an industrial neighborhood and is fenced with site access controlled by guards. The potential for contact and ingestion of on-site soils is minimal as the surface of the site is heavily compacted. Site access is limited to workers only and is of short duration. No public or private water supply wells are known to be present in the area although there exists the possibility of contaminantmigration in groundwater via an apparent hydrological connection to the English Kills.
Site Description:	Not reported
Year:	Not reported
Site Code Id:	Not reported
Site Classification:	Not reported
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	Not reported
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	Not reported

VARICK AVENUE (Continued) **S105973022**

Lat/Long Decimal:	Not reported
Lat/Long (dms):	Not reported
Hazardous Waste Code:	224017
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Not reported
HW Disposal Period:	Not reported
Analytical Data Available:	Not reported
Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Not reported
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	Not reported
Confirmed HW:	Not reported
Environment Assesment:	Not reported
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported

VARICK AVENUE (Continued) **S105973022**

Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	Not reported
NYTM Y:	Not reported
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	This property is located in Brooklyn (Block #2962 - lots 1, 5, & 37), and is owned by Rhino Trust (Albert Realty Co.). The site is a vacant lot, except for two, one-story shed buildings in a state of disrepair. The site has a develop- ment history d ating back to the early 1900's; site uses have included an asphaltpaving company and a lumber company. As a result of an environmental survey of this site conducted in 1988 and 1989, traces of 4-chloroaniline, pentachlorophenol, butyl-ben zylpthalate; di-N-butylphthalate and flouranthene were found. Metals and total petroleum hydrocarbons were also found in the soils, surface and groundwater. Contamination of soils by metals was found to include: silver, barium, cadmium, chromium , iron, lead and copper. Concentrations of metals in the groundwater exceeded groundwater quality standards for lead and iron. Rhino Trust has carried out a supplemental site assessment under a consent order in the summer of 1992. An interpretationof the analytical results from the previous investigation has been inconclusive due to data gaps in the reports. Rhino Trust performed a Supplemental Site Assessment, and the fieldwork was completed in 1994. The PRP has removed the contaminated soils. Hazardous waste is no longer present and significant threatno longer exists.
Env Assessment:	Not reported
HW Disposed/Quantity:	Not reported
Assess/Env Prog:	Contaminated soils have been removed but groundwater contamination evidently due to construction and demolition debris (non-hazardous), still exists.
Assess/Health Prob:	The environmental surveys report show that on-site soils are contaminated to various degrees by some metals, semi-volatile organic compounds and total petroleum hydrocarbons. Potential contamination of the English Kills (the adjacent surface waterbody) and adjacent properties, via soil migration and runoff, is a possibility. The site is located in an industrial neighborhood and is fenced with site access controlled by guards. The potential for contact and ingestion of on-site soils is minimal as the surface of the site is heavily compacted. Site access is limited to workers only and is of short duration. No public or private water supply wells are known to be present in the area although there exists the possibility of contaminantmigration in groundwater via an apparent hydrological connection to the English Kills.
Site Description:	Not reported

480 West 1/4-1/2 0.336 mi. 1772 ft. | **SUNOCO S/S - BKLN**
51 KINGSLAND AV
BKLN, NY | **HIST LTANKS** | **S106703394** | **N/A**

Relative: Higher

Actual: 31 ft.

HIST LTANKS:

Region of Spill:	2
Spill Number:	8908110
Spill Date:	11/15/1989
Spill Time:	10:30
Spill Cause:	Tank Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	SULLIVAN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	11/15/89
Reported to Department Time:	10:45
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SUNOCO S/S - BKLN-A
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Fire Department
PBS Number:	2-157392
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	11/24/89
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	08/04/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported

SUNOCO S/S - BKLN (Continued) **S106703394**

Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: DURING EXCAVATION OF TANK CONTAMINATED SOIL DISCOVERED IN PITS - PUMP-ING CONTAMINATED SOIL WATER OUT OF PIT INTO STREETS - DEP RESPONDED FOUND ONLY CONTAMINATED SOIL SLIGHT SHEEN IN TRENCH.

AC481 **DEPT OF SANITATION SITE** **LTANKS** **S105999757**
SSE **161 VARICK AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.347 mi.
1830 ft. **Site 3 of 3 in cluster AC**

Relative:
Higher

Actual:
12 ft.

LTANKS:
Site ID: 158270
Spill No: 0305740
Spill Date: 8/29/2003
Spill Cause: Tank Failure
Spill Source: Unknown
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/16/2003
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: CESAWYER
Referred To: Not reported
Reported to Dept: 8/29/2003
CID: 205
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 8/29/2003
Spill Record Last Update: 10/16/2003
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller County: 999

DEPT OF SANITATION SITE (Continued) **S105999757**

Spiller Contact: CALLER
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 138348
Remarks: CALLER DUG UP OLD TANKS THAT LEAKED.

Material:
Site ID: 158270
Operable Unit ID: 874196
Operable Unit: 01
Material ID: 502981
Material Code: 0001
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

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482 SSW 1/4-1/2 0.352 mi. 1858 ft.

Relative: Higher

Actual: 21 ft.

APARTMENT BUILDING **LTANKS** **S107789405**
35 MEADOW STREET **N/A**
BROOKLYN, NY

LTANKS:
Site ID: 364030
Spill No: 0601731
Spill Date: 5/16/2006
Spill Cause: Tank Test Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/29/2006
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: HRPATEL
Referred To: Not reported
Reported to Dept: 5/16/2006

APARTMENT BUILDING (Continued) **S107789405**

CID:	408
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/16/2006
Spill Record Last Update:	8/29/2006
Spiller Name:	DEREK DENCKLA
Spiller Company:	APARTMENT BUILDING
Spiller Address:	35 MEADOW STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	DEREK DENCKLA
Spiller Phone:	(917) 674-9040
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	314232
Remarks:	Not reported

Material:

Site ID:	364030
Operable Unit ID:	1122083
Operable Unit:	01
Material ID:	2111568
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

483
West
1/4-1/2
0.358 mi.
1889 ft.

RESIDENCE
243 JACKSON STREET
BROOKLYN, NY

LTANKS **S106971706**
N/A

Relative:
Higher

Actual:
32 ft.

LTANKS:

Site ID:	334346
Spill No:	0409577
Spill Date:	11/26/2004
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/4/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	11/26/2004
CID:	409
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/29/2004
Spill Record Last Update:	4/20/2005
Spiller Name:	ALBERT LONG
Spiller Company:	RESIDENCE
Spiller Address:	243 JACKSON STREET
Spiller City,St,Zip:	BROOKLYN, NY 11237
Spiller County:	001
Spiller Contact:	ALBERT LONG
Spiller Phone:	(718) 349-6697
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	269562
Remarks:	two thirty five tanks leakng closer to the wall. in the basement. crews not on the way :not cleaned up

Material:

Site ID:	334346
Operable Unit ID:	1096485
Operable Unit:	01
Material ID:	576423
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

RESIDENCE (Continued) **S106971706**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

AD484 **M & C TRANSFER STATION;INC.** **SWF/LF** **S105841784**
ENE **58-26 47 STREET** **N/A**
1/4-1/2 **WEST MASPETH, NY 11378**
0.360 mi.
1899 ft. **Site 1 of 3 in cluster AD**

Relative:
Lower

Actual:
3 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184175185
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	THONY MESSINA
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	41T42
Active:	No
East Coordinate:	591000
North Coordinate:	4508800
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6304-00157
Authorization Date:	Not reported
Expiration Date:	Not reported

485
NNW
1/4-1/2
0.366 mi.
1934 ft.

ACME STEEL/METAL WORKS
95 LOMBARDY STREET
BROOKLYN, NY 11222

SHWS **S109416413**
N/A

Relative:
Higher

Actual:
44 ft.

SHWS:

Program:	HW
Site Code:	405853
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	1.010
HW Code:	224131
Record Add:	10/28/2008 10:06:00 AM
Record Upd:	6/23/2010 11:38:00 AM
Updated By:	JAAVERSA
Site Description:	The site is located in a mixed residential/commercial/industrial area of the East Williamsburg section of Kings County (Borough of Brooklyn, New York City). The site is located on the east side of Vandervoort Avenue between Anthony and Lombardy Streets. The site is completely covered by a multi-story brick building. The site is currently occupied, and is utilized for metal fabrication. A small residential area is located one block south of the site. The site has been utilized as a metal fabricator and painting facility since the 1930's. The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). This location was specifically targeted for investigation based on Sanborn fire insurance map data indicating the site s former usage as noted above, and the Phase 1 EDR report which lists the site as a generator of F001 waste (spent halogenated solvents used in de-greasing).
Env Problem:	The primary contaminant of concern at the site is trichloroethene (TCE). TCE has been found on-site in shallow groundwater at concentrations up to 66,000 ppb, and in deep groundwater at concentrations up to 70,000 ppb. TCE has also been found in on-site soil gas at 2,100 ug/m^3. Groundwater standards have been exceeded for TCE. The plume of TCE-contaminated groundwater has migrated at least 400' off-site. Soil vapor with elevated levels of TCE has been found in sub-slab samples collected from the nearby residential area. The site poses a significant environmental threat due to ongoing release of TCE into soil and groundwater.
Health Problem:	Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	10/28/2008 12:21:00 PM
Record Upd:	10/31/2008 6:08:00 PM

ACME STEEL/METAL WORKS (Continued) **S109416413**

Updated By:	dkharrin
Own Op:	Owner
Sub Type:	01
Owner Name:	MAUREEN BABIS
Owner Company:	NYC IDA
Owner Address:	110 WILLIAM STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10038
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	01
Owner Name:	PAUL BURDYN
Owner Company:	ACME ARCHITECTURAL PRODUCTS, INC.
Owner Address:	251 LOMBARDY STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	01
Owner Name:	JACK TEICH
Owner Company:	WHITEHEAD COMPANY
Owner Address:	C/O ACME ARCHITECTURAL PRODUCTS, INC.
Owner Addr2:	251 LOMBARDY STREET
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
HW Code:	224131
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224129
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224130
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:41:00 PM
Record Updated:	10/31/2008 2:41:00 PM
Updated By:	MOBARRIE
Crossref ID:	224132
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:42:00 PM
Record Updated:	10/31/2008 2:42:00 PM
Updated By:	MOBARRIE
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	1/30/2009 12:36:00 PM
Record Updated:	1/30/2009 12:36:00 PM
Updated By:	JAAVERSA

486
NNW
1/4-1/2
0.367 mi.
1937 ft.

211 LOMBARDI ST/BKLY/ACME
211 LOMBARDI STREET
NEW YORK CITY, NY

LTANKS **S100145489**
HIST LTANKS **N/A**

Relative:
Higher

Actual:
42 ft.

LTANKS:

Site ID:	219343
Spill No:	8903418
Spill Date:	7/5/1989
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/7/1992
Facility Addr2:	Not reported
Cleanup Ceased:	10/7/1992
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	7/5/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/10/1989
Spill Record Last Update:	11/23/2009
Spiller Name:	Not reported
Spiller Company:	ACME STEEL CORP
Spiller Address:	211 LOMBARDI STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	181384
Remarks:	8K TANK FAILED PETRO TITE WITH A GROSS LEAK, COLBAR CONTRACTORS TO EXCAVATE TANK TOP & PERFORM ISOLATION TEST.

Material:

Site ID:	219343
Operable Unit ID:	928830
Operable Unit:	01
Material ID:	447513
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

211 LOMBARDI ST/BKLY/ACME (Continued) **S100145489**

Tank Test:

Site ID:	219343
Spill Tank Test:	1535678
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	8903418
Spill Date:	07/05/1989
Spill Time:	12:00
Spill Cause:	Tank Test Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/07/92
Cleanup Ceased:	10/07/92
Cleanup Meets Standard:	False
Investigator:	BATTISTA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/05/89
Reported to Department Time:	14:13
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	ACME STEEL CORP
Spiller Address:	211 LOMBARDI STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(718) 384-7800
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	2-477702
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False

211 LOMBARDI ST/BKLY/ACME (Continued) **S100145489**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 07/10/89
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/15/94
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: 8K TANK FAILED PETRO TITE WITH A GROSS LEAK, COLBAR CONTRACTORS TO EXCAVATE TANK TOP PERFORM ISOLATION TEST.

487
SW
1/4-1/2
0.367 mi.
1939 ft.

J & M AUTO REPAIRS
881-885 GRAND ST
BROOKLYN, NY 11211

RCRA-NonGen **1000458276**
FINDS **NYD986936649**
LTANKS
HIST LTANKS
MANIFEST

Relative:
Higher

Actual:
37 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: J & M AUTO REPAIRS
Facility address: 881-885 GRAND ST
BROOKLYN, NY 112115001
EPA ID: NYD986936649
Mailing address: METROPOLITAN AVE
QUEENS, NY 11385
Contact: Not reported
Contact address: METROPOLITAN AVE
QUEENS, NY 11385
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: GEORGE ADOMAITES

J & M AUTO REPAIRS (Continued) **1000458276**

Owner/operator address: 56-29 METROPOLITAN AVE
QUEENS, NY 11385
Owner/operator country: US
Owner/operator telephone: (718) 366-1881
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GEORGE ADOMAITES
Owner/operator address: 56-29 METROPOLITAN AVE
QUEENS, NY 11385
Owner/operator country: US
Owner/operator telephone: (718) 366-1881
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: J & M AUTO REPAIRS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: J & M AUTO REPAIRS
Classification: Not a generator, verified

Date form received by agency: 01/11/1991
Facility name: J & M AUTO REPAIRS
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004458827

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

J & M AUTO REPAIRS (Continued) **1000458276**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LTANKS:

Site ID:	92038
Spill No:	8901284
Spill Date:	5/9/1989
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/21/2008
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	MJHAGGER
Referred To:	Not reported
Reported to Dept:	5/9/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	5/9/1989
Spill Record Last Update:	7/22/2008
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	30485
Remarks:	THREE 550 GALLON TANKS FAIL HORNER-EZY CHEK - LR = -0.11982 GPH. NO DECISION ON ACTION TO BE TAKEN. .

Material:

Site ID:	92038
Operable Unit ID:	927414
Operable Unit:	01
Material ID:	449034
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds

J & M AUTO REPAIRS (Continued) **1000458276**

Recovered: No
Resource Affected: Not reported
Oxygenate: True
Site ID: 92038
Operable Unit ID: 927414
Operable Unit: 01
Material ID: 2135635
Material Code: 1213A
Material Name: MTBE (METHYL-TERT-BUTYL ETHER)
Case No.: 01634044
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: True

Tank Test:
Site ID: 92038
Spill Tank Test: 1535443
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 2
Spill Number: 8901284
Spill Date: 05/09/1989
Spill Time: 13:30
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: SULLIVAN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 05/09/89
Reported to Department Time: 14:30
SWIS: 61

J & M AUTO REPAIRS (Continued) **1000458276**

Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SAME
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/09/89
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/04/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: SEE SPILL NUMBER 8908532.
Spill Cause: THREE 550 GALLON TANKS FAIL HORNER-EZY CHEK - LR = -0.11982 GPH. NO DECISION ON ACTION TO BE TAKEN.

NY MANIFEST:
EPA ID: NYD986936649
Country: USA
Mailing Name: KALCO PUMP & TANK
Mailing Contact: KALCO PUMP & TANK
Mailing Address: 45-01 20TH AVE
Mailing Address 2: Not reported
Mailing City: LONG ISLAND CITY
Mailing State: NY

J & M AUTO REPAIRS (Continued) **1000458276**

Mailing Zip:	11106
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-626-8083

Document ID:	NYB2043576
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	VH6911
Trans2 State ID:	Not reported
Generator Ship Date:	910208
Trans1 Recv Date:	910208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910208
Part A Recv Date:	910228
Part B Recv Date:	910308
Generator EPA ID:	NYD986936649
Trans1 EPA ID:	NYD980592570
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00600
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	91

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488 **BUSINESS** **LTANKS** **S107489271**
NW **32 BEADEL STREET** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.374 mi.
1973 ft.

Relative:
Higher

Actual:
39 ft.

LTANKS:

Site ID:	356241
Spill No:	0510292
Spill Date:	11/30/2005
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/25/2006
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	11/30/2005
CID:	408
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0

BUSINESS (Continued) **S107489271**

Date Entered In Computer: 11/30/2005
Spill Record Last Update: 1/25/2006
Spiller Name: MARLON JOSEPH
Spiller Company: BUSINESS
Spiller Address: 32 BEADEL STREET
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: MARLON JOSEPH
Spiller Phone: (646) 772-7949
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 306301
Remarks: ABOVE LIQUID LEAK.

Material:
Site ID: 356241
Operable Unit ID: 1113553
Operable Unit: 01
Material ID: 2103617
Material Code: 0003
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

AE489 **251 LOMBARDI ST** **LTANKS** **S103238952**
North **251 LOMBARDI ST** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.380 mi.
2006 ft. **Site 1 of 2 in cluster AE**

Relative:
Higher

Actual:
26 ft.

LTANKS:
Site ID: 239856
Spill No: 9804103
Spill Date: 7/1/1998
Spill Cause: Tank Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 1/19/1999

251 LOMBARDI ST (Continued) **S103238952**

Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	7/1/1998
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	7/1/1998
Spill Record Last Update:	2/9/1999
Spiller Name:	ACME ARCHITECUAL
Spiller Company:	251 LOMBARDI ST
Spiller Address:	251 LOMBARDI ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	ACME ARCHITECUAL
Spiller Phone:	(718) 384-7800
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	197297
Remarks:	CALLER PULLING OLD TANKS AT ABANDONED WHSE ENCOUNTERED CONTAMINATION.

Material:

Site ID:	239856
Operable Unit ID:	1064977
Operable Unit:	01
Material ID:	318823
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	239856
Operable Unit ID:	1064977
Operable Unit:	01
Material ID:	318824
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

251 LOMBARDI ST (Continued) **S103238952**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9804103
Spill Date:	07/01/1998
Spill Time:	09:24
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/19/99
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/01/98
Reported to Department Time:	09:24
SWIS:	61
Spiller Contact:	ACME ARCHITECUAL
Spiller Phone:	(718) 384-7800
Spiller Extention:	Not reported
Spiller Name:	251 LOMBARDI ST
Spiller Address:	251 LOMBARDI ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Cleanup Date:	/ /
Facility Contact:	ACME ARCHITECUAL
Facility Phone:	(718) 384-7800
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True

251 LOMBARDI ST (Continued) **S103238952**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 07/01/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 02/09/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: CALLER PULLING OLD TANKS AT ABANDONED WHSE ENCOUNTERED CONTAMINATION.

AF490 **BFI (575 SCHOLES STREET)** **SWF/LF** **S105841707**
SE **575 SCHOLES STREET** **SWRCY** **N/A**
1/4-1/2 **BROOKLYN, NY** **NY Spills**
0.394 mi. **NY Hist Spills**
2078 ft. **Site 1 of 2 in cluster AF** **FINANCIAL ASSURANCE**

Relative:
Higher

Actual:
15 ft.

SWF/LF:
Flag: ACTIVE
Region Code: 2
Phone Number: 7184974000
Owner Name: BFI WASTE SYSTEMS OF NJ; INC
Owner Type: Private
Owner Address: 920 EAST 132ND STREET
Owner Addr2: Not reported
Owner City,St,Zip: Bronx, NY 10454
Owner Email: Not reported
Owner Phone: Not reported

BFI (575 SCHOLES STREET) (Continued) **S105841707**

Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T25
Active:	Yes
East Coordinate:	590859
North Coordinate:	4507332
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	MSW (Residential/Institutional & Commercial)
Authorization #:	Not reported
Authorization Date:	1/31/1997
Expiration Date:	1/31/2002

SWRCY:

Region:	2
Facility Address 2:	Not reported
Phone Number:	7184974000
Owner Type:	Private
Owner Name:	BFI WASTE SYSTEMS OF NJ; INC
Owner Address:	920 EAST 132ND STREET
Owner Address 2:	Not reported
Owner City,St,Zip:	Bronx, NY 10454
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Recylables handling and recovery facilities
Activity Number:	24M25
Active:	No
East Coordinate:	590859
North Coordinate:	4507332
Accuracy Code:	Not reported
Regulatory Status:	None
Permit #:	Not reported
Auth. Date:	1/31/1997
Expiration Date:	1/31/2002
Waste Types:	Commingled Recyclables;Paper (All Types)

NY Spills:

Site ID:	173694
Facility Addr2:	Not reported
Facility ID:	8707214
Spill Number:	8707214
Facility Type:	ER
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported

BFI (575 SCHOLES STREET) (Continued) **S105841707**

Spill Date:	11/21/1987
Reported to Dept:	11/21/1987
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Fire Department
Cleanup Ceased:	11/21/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	11/21/1987
Remediation Phase:	0
Date Entered In Computer:	11/27/1987
Spill Record Last Update:	8/20/2003
Spiller Name:	Not reported
Spiller Company:	JLJ CO.
Spiller Address:	575 SCHOLES ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	146106
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " Not reported
Remarks:	TANK PARTIALLY FILLED WITH PRODUCT WAS BEING CUT UP BY SCRAP YARD. CONTACT: STEVE SPALIRO (718) 366-6513.

Material:

Site ID:	173694
Operable Unit ID:	912946
Operable Unit:	01
Material ID:	466181
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

BFI (575 SCHOLES STREET) (Continued) **S105841707**

NY Hist Spills:

Region of Spill:	2
Spill Number:	8707214
Investigator:	Not reported
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/21/1987 10:37
Reported to Dept Date/Time:	11/21/87 11:09
SWIS:	61
Spiller Name:	JLJ CO.
Spiller Contact:	Not reported
Spiller Phone:	(718) 366-6513
Spiller Address:	575 SCHOLES ST
Spiller City,St,Zip:	B'KLYN, NY
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	11/21/87
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	11/21/87
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/27/87
Date Spill Entered In Computer Data File:	Not reported
Update Date:	10/14/88
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	50
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL

BFI (575 SCHOLES STREET) (Continued) **S105841707**

Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: TANK PARTIALLY FILLED WITH PRODUCT WAS BEING CUT UP BY SCRAP YARD. CONTACT: STEVE SPALIRO 718) 366-6513.

NY FINANCIAL ASSURANCE:
Owner Name: BFI WASTE SYSTEMS OF NJ; INC
Region: 2
Estimate Type: Closure
Estimate Amount: 683000
Estimate Date: 3/1/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 683000
Financial Institution: Not reported
Issue Date: Not reported
Expiration Date: Not reported
Activity Number: 24T25
Activity Description: Transfer station - regulated

AE491 **LOMBARDY STREET LANDFILL** **HSWDS** **S108147104**
North **295 LOMBARDY STREET** **N/A**
1/4-1/2 **BROOKLYN, NY 11222**
0.395 mi.
2087 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
21 ft.

HSWDS:
Facility ID: Not reported
Region: 2
Facility Status: None
Owner Type: Puplic
Owner: Jones Motor Trucking Co.
Owner Address: 925 Lombardy St.
Owner Phone: (212)782-5300
Operator Type: Puplic
Operator: Pfizer Co.
Operator: Pfizer Co.
Operator Phone: Unknown
EPA ID: NYD980532360
Registry: Not on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID: None
RCRA Permitted: Unknown
Site Code: Industrial Landfill
Owner City State: Brooklyn, NY 11222
Operator City State: Not reported
Quadrange: Unknown
Latitude: 40 43'20"N
Longitude: 73 56'00"W
Acres: 2.00
Operator Date: 1924
Close Date: 1964
Completed: PA
Active: Unknown
PCB's Disposed: Unknown
Pesticides Disposed: Unknown
Metals Disposed: Unknown

LOMBARDY STREET LANDFILL (Continued) **S108147104**

Asbestos Disposed:	Unknown
Volatile Organic Compounds Disposed:	Unknown
Semi Volatile Organic Compounds Disposed:	Unknown
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	None
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	No
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	No
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Unknown
Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

AG492 **APT COMPLEX** **LTANKS** **S105998649**
South **349 SCHOLES ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.397 mi.
2098 ft. **Site 1 of 2 in cluster AG**

Relative:
Higher

Actual:
16 ft.

LTANKS:

Site ID:	117954
Spill No:	0300325
Spill Date:	3/12/2003
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/24/2004
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	4/9/2003
CID:	39
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/9/2003
Spill Record Last Update:	3/24/2004
Spiller Name:	Not reported
Spiller Company:	APT COMPLEX
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	JOHN
Spiller Phone:	(718) 497-6044
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	102538
Remarks:	tank test failure

Material:

Site ID:	117954
Operable Unit ID:	866409
Operable Unit:	01
Material ID:	508406
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

APT COMPLEX (Continued) **S105998649**

Tank Test:

Site ID:	117954
Spill Tank Test:	1528245
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

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493 **ST. JOHN'S BERRY TRUCKING** **LTANKS** **S106703403**
ENE **55090 47TH STREET** **HIST LTANKS** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.400 mi.
2110 ft.

Relative:
Lower

Actual:
9 ft.

LTANKS:

Site ID:	128781
Spill No:	8909238
Spill Date:	12/20/1989
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/29/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	4101
Investigator:	EXHAMPST
Referred To:	Not reported
Reported to Dept:	12/20/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1/24/1990
Spill Record Last Update:	12/29/2005
Spiller Name:	Not reported
Spiller Company:	ST. JOHN'S BERRY TRUCKING
Spiller Address:	55-90 47TH STREET
Spiller City,St,Zip:	MASPETH, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	111069
Remarks:	(10) 550 GALLON TANKS FAILED TANK AUDITOR, LEAK RATE WAS +0.28153GPH, WILL RETEST.

ST. JOHN'S BERRY TRUCKING (Continued) **S106703403**

Material:

Site ID:	128781
Operable Unit ID:	934162
Operable Unit:	01
Material ID:	557487
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	128781
Spill Tank Test:	1536598
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	8909238
Spill Date:	12/20/1989
Spill Time:	11:21
Spill Cause:	Tank Test Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	TOMASELLO
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	12/20/89
Reported to Department Time:	16:31
SWIS:	63
Spiller Contact:	Not reported
Spiller Phone:	Not reported

ST. JOHN'S BERRY TRUCKING (Continued) **S106703403**

Spiller Extention: Not reported
Spiller Name: ST. JOHN'S BERRY TRUCKING
Spiller Address: 55-90 47TH STREET
Spiller City,St,Zip: MASPETH, NY
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (718) 366-0400
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/24/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/03/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: 10) 550 GALLON TANKS FAILED TANK AUDITOR, LEAK RATE WAS +0.28153GPH, WILL RETEST.

AD494 **ISLAND TRANS CORP** **LTANKS** **S108983091**
ENE **5700 47TH STREET** **N/A**
1/4-1/2 **MASPETH, NY**
0.403 mi.
2126 ft. **Site 2 of 3 in cluster AD**

Relative:
Lower

Actual:
9 ft.

LTANKS:
Site ID: 391172
Spill No: 0709978
Spill Date: 12/18/2007
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial

ISLAND TRANS CORP (Continued) **S108983091**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/28/2007
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	4101
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	12/18/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/18/2007
Spill Record Last Update:	6/30/2008
Spiller Name:	CHRIS MALLOY
Spiller Company:	Not reported
Spiller Address:	5700 47TH STREET
Spiller City,St,Zip:	MASPATH, NY
Spiller County:	001
Spiller Contact:	CHRIS MALLOY
Spiller Phone:	(413) 572-1900
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	340805
Remarks:	PBS No: 2-318744

Material:

Site ID:	391172
Operable Unit ID:	1148233
Operable Unit:	01
Material ID:	2138722
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	391172
Spill Tank Test:	2384326
Tank Number:	Not reported
Tank Size:	4000
Test Method:	14
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	12/18/2007

ISLAND TRANS CORP (Continued) **S108983091**

Test Method: VacuTest

AF495 **GADS; INC.** **SWF/LF** **S107406892**
SE **594 SCHOLES STREET** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.403 mi.
2127 ft. **Site 2 of 2 in cluster AF**

Relative:
Higher

Actual:
16 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	5166478802
Owner Name:	Mike Allocco
Owner Type:	Private
Owner Address:	540 Kingsland Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Email:	Not reported
Owner Phone:	9173990251
Contact Name:	Anthony Strano
Contact Address:	594 Scholes Street
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11222
Contact Email:	Anthony@alloccorecycling.com
Contact Phone:	7184182190
Activity Desc:	C&D processing - regulated
Activity Number:	24W25
Active:	Yes
East Coordinate:	590889
North Coordinate:	4507379
Accuracy Code:	Not reported
Regulatory Status:	Registration
Waste Type:	Construction & Demolition Debris
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported

AD496 **PEBBLE LANE ASSOCIATES** **SWF/LF** **S105841247**
ENE **57-05 47TH STREET** **N/A**
1/4-1/2 **MASPETH, NY 11378**
0.404 mi.
2133 ft. **Site 3 of 3 in cluster AD**

Relative:
Lower

Actual:
9 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7184562520
Owner Name:	US Concrete; Inc
Owner Type:	Private
Owner Address:	57-0047th Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Maspeth, NY 11378
Owner Email:	Not reported
Owner Phone:	7184562520
Contact Name:	Hasib Ikramullah ; Vice President

PEBBLE LANE ASSOCIATES (Continued) **S105841247**

Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	hikramullah@us-concrete.com
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	41W64
Active:	Yes
East Coordinate:	591200
North Coordinate:	4509900
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Registration
Waste Type:	Asphalt;Brick;Concrete;Rock;Soil (Clean);Glass
Authorization #:	41W64
Authorization Date:	4/27/2009
Expiration Date:	Not reported

AH497 **HI-TECH RESOURCE RECOVERY** **SWF/LF** **S105841723**
SSE **130 VARICK AVENUE** **FINANCIAL ASSURANCE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.404 mi.
2133 ft. **Site 1 of 4 in cluster AH**

Relative:
Higher

Actual:
11 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7183865750
Owner Name:	Hi-Tech Resource Recovery Inc
Owner Type:	Private
Owner Address:	130 Varick Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY
Owner Email:	Not reported
Owner Phone:	7183865750
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T73
Active:	Yes
East Coordinate:	590549
North Coordinate:	4507134
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	MSW (Residential/Institutional & Commercial);Recyclables (Metal/Glass/Paper/Plastic)
Authorization #:	Not reported
Authorization Date:	6/10/1996
Expiration Date:	6/10/2001

Flag:	ACTIVE
Region Code:	2
Phone Number:	7183865750
Owner Name:	Hi-Tech Resource Recovery Inc
Owner Type:	Private

HI-TECH RESOURCE RECOVERY (Continued) **S105841723**

Owner Address:	130 Varick Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY
Owner Email:	Not reported
Owner Phone:	7183865750
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - regulated
Activity Number:	24W73
Active:	Yes
East Coordinate:	590549
North Coordinate:	4507134
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Construction & Demolition Debris
Authorization #:	Not reported
Authorization Date:	6/10/1996
Expiration Date:	6/10/2001

NY FINANCIAL ASSURANCE:

Owner Name:	Hi-Tech Resource Recovery Inc
Region:	2
Estimate Type:	Closure
Estimate Amount:	137000
Estimate Date:	3/1/2001
Mechanism:	Letter of credit
Mechanism Amount:	50000
Financial Institution:	Citibank
Issue Date:	Not reported
Expiration Date:	10/11/1991
Activity Number:	24W73
Activity Description:	C&D processing - regulated

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498 **57-47 47TH STREET** **LTANKS** **S106703252**
ENE **57-47 47TH ST** **HIST LTANKS** **N/A**
1/4-1/2 **MASPETH, NY**
0.405 mi.
2139 ft.

Relative:
Higher

Actual:
10 ft.

LTANKS:

Site ID:	195765
Spill No:	8803169
Spill Date:	7/12/1988
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/2/1992
Facility Addr2:	Not reported
Cleanup Ceased:	10/2/1992
Cleanup Meets Standard:	False
SWIS:	4101
Investigator:	BATTISTA

57-47 47TH STREET (Continued) **S106703252**

Referred To:	Not reported
Reported to Dept:	7/12/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/15/1988
Spill Record Last Update:	12/5/2003
Spiller Name:	MIKE DELMAN
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	163091
Remarks:	5K TANK SYSTEM FAILURE, L R = -0.142 GPH.

Material:

Site ID:	195765
Operable Unit ID:	918341
Operable Unit:	01
Material ID:	458730
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	195765
Spill Tank Test:	1534274
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	8803169
Spill Date:	07/12/1988
Spill Time:	16:30

57-47 47TH STREET (Continued) **S106703252**

Spill Cause:	Tank Test Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/02/92
Cleanup Ceased:	10/02/92
Cleanup Meets Standard:	False
Investigator:	BATTISTA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/12/88
Reported to Department Time:	18:19
SWIS:	63
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	MIKE DELMAN
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(718) 497-0394
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	2-320943
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	07/15/88
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	05/12/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	0
Test Method:	Not reported
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False

57-47 47TH STREET (Continued) **S106703252**

Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#2 FUEL OIL
Class Type:	#2 FUEL OIL
Times Material Entry In File:	24464
CAS Number:	Not reported
Last Date:	19941207
DEC Remarks:	/ / : ISOLATE RETEST IN ABOUT A WEEK.
Spill Cause:	5K TANK SYSTEM FAILURE, L R = -0.142 GPH.

499
NNW
1/4-1/2
0.411 mi.
2170 ft.

ACME STEEL/BRASS FOUNDRY **SHWS** **S109416410**
72 ANTHONY STREET **N/A**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
50 ft.

SHWS:

Program:	HW
Site Code:	405855
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	1.210
HW Code:	224132
Record Add:	10/28/2008 10:07:00 AM
Record Upd:	6/23/2010 11:39:00 AM
Updated By:	JAAVERSA
Site Description:	The site is located in a mixed residential/commercial/industrial area of the East Williamsburg section of Kings County (Borough of Brooklyn, New York City). The site is located on the southeast corner of the intersection of Anthony Street and Porter Avenue. The site is covered by a multi-story brick building and a portion of a storage lot adjacent to the building on its eastern side. The site is currently occupied, and is utilized as a warehouse. A small residential area is located two blocks south of the site. The site had been utilized as a brass foundry from the mid-1960's to approximately 1993. The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). This location was specifically targeted for investigation based on Sanborn fire insurance map data indicating the site s former usage as noted above, and the Phase 1 EDR report which lists the site as a generator of F001 waste (spent halogenated solvents used in de-greasing).
Env Problem:	The primary contaminants of concern at the site are tetrachloroethene (PCE) and trichloroethene (TCE). PCE has been found in on-site soils at concentrations up to 220 ppm, and in on-site shallow groundwater up to 6,100 ppb. TCE has been found on-site in deep groundwater at concentrations up to 12,000 ppb. Groundwater standards have been exceeded for both PCE and TCE. The unrestricted use RSCO for PCE has been exceeded. The plume of PCE and TCE-contaminated groundwater has migrated at least 400' off-site. Soil vapor with elevated levels of PCE and TCE has been found in sub-slab samples collected from the nearby residential area. The site poses a significant environmental threat due to ongoing release of PCE and TCE into soil and groundwater.
Health Problem:	Exposure to site-related contamination in drinking water and soil is

ACME STEEL/BRASS FOUNDRY (Continued) **S109416410**

unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	10/28/2008 10:35:00 AM
Record Upd:	10/31/2008 6:27:00 PM
Updated By:	dkharrin
Own Op:	On-Site Operator
Sub Type:	01
Owner Name:	PAUL BURDYN
Owner Company:	ACME ARCHITECTURAL PRODUCTS, INC.
Owner Address:	251 LOMBARDY STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	01
Owner Name:	MAUREEN BABIS
Owner Company:	NYC IDA
Owner Address:	110 WILLILAM STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10038
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	01
Owner Name:	JACK TEICH
Owner Company:	WHITEHEAD COMPANY
Owner Address:	C/O ACME ARCHITECTURAL PRODUCTS, INC.
Owner Addr2:	251 LOMBARDY STREET
Owner City,St,Zip:	BROOKLYN, NY 11222
Owner Country:	United States of America
HW Code:	224132
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224132
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	1/30/2009 12:36:00 PM
Record Updated:	1/30/2009 12:36:00 PM
Updated By:	JAAVERSA
Crossref ID:	224129
Cross Ref Type Code:	02

ACME STEEL/BRASS FOUNDRY (Continued) **S109416410**

Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224130
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:41:00 PM
Record Updated:	10/31/2008 2:41:00 PM
Updated By:	MOBARRIE
Crossref ID:	224131
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:42:00 PM
Record Updated:	10/31/2008 2:42:00 PM
Updated By:	MOBARRIE

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500 East 1/4-1/2 0.411 mi. 2172 ft.

RAPID PROCESSING LLC (58-35 47TH STREET) **SWRCY S105842307**
58-35 47TH STREET **NY Spills N/A**
MASPETH, NY 11378

Relative: Higher

Actual: 10 ft.

SWRCY:

Region:	2
Facility Address 2:	Not reported
Phone Number:	7183497555
Owner Type:	Private
Owner Name:	Cosimo Tristani
Owner Address:	58-35 4th Street
Owner Address 2:	Not reported
Owner City,St,Zip:	Maspeth, NY 11278
Owner Email:	Not reported
Owner Phone:	7183497555
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Recylables handling and recovery facilities
Activity Number:	41M13
Active:	Yes
East Coordinate:	591077
North Coordinate:	4507948
Accuracy Code:	Not reported
Regulatory Status:	Registration
Permit #:	None
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Paper (All Types)

Region:	2
Facility Address 2:	Not reported
Phone Number:	7183811319
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported

RAPID PROCESSING LLC (58-35 47TH STREET) (Continued) **S105842307**

Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MICHAEL J. SINISI
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Recylables handling and recovery facilities
Activity Number:	41M13
Active:	No
East Coordinate:	591200
North Coordinate:	4508400
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	2-6304-00296
Auth. Date:	8/21/1992
Expiration Date:	8/21/1997
Waste Types:	Not reported

NY Spills:

Site ID:	282212
Facility Addr2:	Not reported
Facility ID:	0404192
Spill Number:	0404192
Facility Type:	ER
SWIS:	4101
Investigator:	MXTIPPLE
Referred To:	Not reported
Spill Date:	7/19/2004
Reported to Dept:	7/19/2004
CID:	408
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/31/2005
Remediation Phase:	0
Date Entered In Computer:	7/19/2004
Spill Record Last Update:	2/1/2005
Spiller Name:	JOEL ADRIAN
Spiller Company:	SHOCK WOODFORD COMPANY
Spiller Address:	5 WEST MAIN ST SUITE 109
Spiller City,St,Zip:	ELMSFORD, NY 10523
Spiller Company:	001
Contact Name:	JOEL ADRIAN
Contact Phone:	(914) 592-1804
DEC Region:	2

RAPID PROCESSING LLC (58-35 47TH STREET) (Continued) **S105842307**

DER Facility ID: 229102
DEC Memo: 12/23/04 Tipple updating//all prior notes lost in database// Tipple has conducted two site visits, the last of which was 12/22 PM. There had been a machinery problem in the recycling facility which required the excavation of a large area of the floor. Tipple met with Joel Adrian of the Jacques Whitford company to conduct a visual/ olfactory inspection of the excavation. The excavation was approximately 20-25' long by 10-12' wide and extended about 6 foot below the floor surface. The excavation revealed no visual, olfactory /PID evidence of petroleum products, what the excavation did reveal was broken brick, some concrete, glass and what I observed to be "clean" brown soil. Jacques Whitford will grab one sample from this excavation and advance two geoprobe borings to groundwater and collect samples from the soil/water interface. The results of the three above described samples will be used to determine weather any additional actions will be required. 12/29/04 tipple delivering a STIP and CAP to the site while the two additional borings are being advanced. Upon arrival at the site, the Rig was too large to maneuver through the available space, the additional borings have been tentatively rescheduled for next Tuesday Jan. 4, 05 1/31/05 reviewed submission, discussed with DEC Attorney Nehila, Oliva & Nehila ok with closing if data is ok. Data has some SVOC exceedances which can be associated with the broken asphalt pieces in the urban fill material which I witnessed in the excavation. NFA letter written including a caveat which reads if excavation is to proceed, a health and safety plan must be followed.
Remarks: 11/18/04 site mtg. with contractor, purchaser, and agent. Discussed the future actions necessary to attain a NFA.

Material:
Site ID: 282212
Operable Unit ID: 887419
Operable Unit: 01
Material ID: 488202
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

501
ENE
1/4-1/2
0.412 mi.
2173 ft.

NYC DEPT SANITATION
48-01 58 ROAD
MASPATH, NY

LTANKS **S109064276**
N/A

Relative:
Higher

Actual:
11 ft.

LTANKS:

Site ID:	396725
Spill No:	0800896
Spill Date:	4/22/2008
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/9/2008
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	4101
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	4/22/2008
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/22/2008
Spill Record Last Update:	7/9/2008
Spiller Name:	JAY SHAW
Spiller Company:	NYC DEPT SANITATION
Spiller Address:	48-01 58 ROAD
Spiller City,St,Zip:	MASPATH, NY
Spiller County:	001
Spiller Contact:	JAY SHAW
Spiller Phone:	(718) 334-9138
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	346199
Remarks:	DISCHARGE LINE FAILED WITH GROSS PROBLEM AND NOW THE REMAINING ONE FAILED

Material:

Site ID:	396725
Operable Unit ID:	1153695
Operable Unit:	01
Material ID:	2144463
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

NYC DEPT SANITATION (Continued) **S109064276**

Tank Test:

Site ID:	396725
Spill Tank Test:	2453565
Tank Number:	3
Tank Size:	2500
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	4/22/2008
Test Method:	Horner EZ Check I or II

502
NNW
1/4-1/2
0.414 mi.
2188 ft.

GOTCHA AUTO INC
521 VARICK AVE
BROOKLYN, NY 11222

SWF/LF **S108145887**
N/A

Relative:
Higher

Actual:
51 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7184869193
Owner Name:	Nora Novel
Owner Type:	Private
Owner Address:	521 Varick Ave
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Email:	gotchaautoinc@aol.com
Owner Phone:	5167905661
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	No
East Coordinate:	590036
North Coordinate:	4508659
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

503
NNW
1/4-1/2
0.417 mi.
2204 ft.

CITY RECYCLING
151 ANTHONY STREET
BROOKLYN, NY 11222

FINDS **1007771933**
SWF/LF **N/A**

Relative:
Higher

Actual:
39 ft.

FINDS:

Registry ID: 110019343735

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7187282134
Owner Name:	LUCIANO CASAGRANDE; OWNER
Owner Type:	Private
Owner Address:	151 Anthony Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Email:	Not reported
Owner Phone:	7185996573
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24W26
Active:	No
East Coordinate:	590100
North Coordinate:	4508600
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Construction & Demolition Debris
Authorization #:	2-6101-00005
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	2
Phone Number:	7185996573
Owner Name:	Luciano Casagrande
Owner Type:	Private
Owner Address:	151 Anthony Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11222
Owner Email:	Not reported
Owner Phone:	7185996573
Contact Name:	Dawn Torres
Contact Address:	151 Anthony Street
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11222

CITY RECYCLING (Continued) **1007771933**

Contact Email: Not reported
Contact Phone: 7185996573
Activity Desc: C&D processing - regulated
Activity Number: 24W26
Active: Yes
East Coordinate: 589930
North Coordinate: 4508664
Accuracy Code: Not reported
Regulatory Status: Consent Order
Waste Type: Construction & Demolition Debris
Authorization #: None
Authorization Date: Not reported
Expiration Date: Not reported

504
SE
1/4-1/2
0.419 mi.
2214 ft.

MESEROLE STREET RECYCLING INC./FILIBERTO RECYCLING **SWRCY** **S105838144**
568 MESEROLE STREET **FINANCIAL ASSURANCE** **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
14 ft.

SWRCY:
Region: 2
Facility Address 2: Not reported
Phone Number: 7184565000
Owner Type: Private
Owner Name: Filiberto Recycling
Owner Address: 568 Meserole Street
Owner Address 2: Not reported
Owner City,St,Zip: Brooklyn, NY 11237
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: RUDOLPH FILIBERTO
Contact Address: Not reported
Contact Address 2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Recylables handling and recovery facilities
Activity Number: 24MB5
Active: No
East Coordinate: 590803
North Coordinate: 4507257
Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status: Permit
Permit #: 2-6104-00214
Auth. Date: 3/21/2005
Expiration Date: 3/21/2010
Waste Types: Not reported

NY FINANCIAL ASSURANCE:
Owner Name: Filiberto Recycling
Region: 2
Estimate Type: Not reported
Estimate Amount: Not reported
Estimate Date: Not reported
Mechanism: Letter of credit
Mechanism Amount: 50000

MESEROLE STREET RECYCLING INC./FILIBERTO RECYCLING (Continued) **S105838144**

Financial Institution: Chase
Issue Date: Not reported
Expiration Date: Not reported
Activity Number: 24MB5
Activity Description: Recylables handling and recovery facilities

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AI505 **METRO AUTO SAVAGE & SALES, INC.** **SWF/LF** **S108145990**
ESE **4600 METROPOLITAN AVE** **CBS** **N/A**
1/4-1/2 **RIDGEWOOD, NY 11368**
0.420 mi.
2216 ft. **Site 1 of 3 in cluster AI**

Relative:
Lower

Actual:
8 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	590900
North Coordinate:	4507549
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

CBS:

CBS Number:	2-000496
Program Type:	CBS
Dec Region:	2
Expiration Date:	2011/06/10
Facility Status:	Active
UTMX:	Not reported
UTMY:	Not reported

AG506 **SCHOLES ST. STATION** **Manufactured Gas Plants** **1008407899**
South **SCHOLES ST 7 BOGART STS. MESSEROLE AND MORGAN AVE.** **N/A**
1/4-1/2 **BROOKLYN, NY 11206**
0.427 mi.
2257 ft. **Site 2 of 2 in cluster AG**

Relative:
Higher

Actual:
17 ft.

Manufactured Gas Plants:
No additional information available

AI507 **AVALANCHE CONTRACTING; INC. (COTOIA)** **SWF/LF** **S105841937**
ESE **46-26 METROPOLITAN AVENUE** **N/A**
1/4-1/2 **MASPETH, NY 11378**
0.436 mi.
2302 ft. **Site 2 of 3 in cluster AI**

Relative:
Lower

Actual:
8 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183811134
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	MARCANGELO COTOIA
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	41W29
Active:	No
East Coordinate:	590922
North Coordinate:	4507548
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6305-00020
Authorization Date:	Not reported
Expiration Date:	Not reported

AI508 **COTOIA ENTERPRISES** **SWRCY** **S105842300**
ESE **46-26 METROPOLITAN AVE.** **N/A**
1/4-1/2 **RIDGEWOOD, NY 0**
0.436 mi.
2302 ft. **Site 3 of 3 in cluster AI**

Relative:
Lower

Actual:
8 ft.

SWRCY:

Region:	2
Facility Address 2:	Not reported
Phone Number:	7183811134
Owner Type:	Not reported
Owner Name:	Marcangelo Cotoia

COTOIA ENTERPRISES (Continued) **S105842300**

Owner Address:	46-26 Metropolitan Ave.
Owner Address 2:	Not reported
Owner City,St,Zip:	Ridgewood, NY 11385
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Recylables handling and recovery facilities
Activity Number:	00M00
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	2-3790-91-07
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported

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509 **EXXON STATION** **LTANKS** **S102143576**
NW **546 MORGAN AV** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY** **NY Spills**
0.436 mi. **NY Hist Spills**
2303 ft.

Relative:
Higher

Actual:
37 ft.

LTANKS:

Site ID:	181108
Spill No:	9608849
Spill Date:	10/16/1996
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/9/1997
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	10/16/1996
CID:	267
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	10/16/1996
Spill Record Last Update:	10/17/2003
Spiller Name:	MELISSA WINSOR
Spiller Company:	EXXONMOBIL
Spiller Address:	3225 GALLOWS ROAD
Spiller City,St,Zip:	FAIRFAX, VA 22037-

EXXON STATION (Continued) **S102143576**

Spiller County:	001
Spiller Contact:	MIKE MIEOLA
Spiller Phone:	(516) 876-4671
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	152951
Remarks:	both tanks 001 and 002 failed the ustest 2000 tanks will be uncovered and retested

Material:

Site ID:	181108
Operable Unit ID:	1040059
Operable Unit:	01
Material ID:	344584
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	181108
Spill Tank Test:	1544820
Tank Number:	002
Tank Size:	4000
Test Method:	20
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	USTest 2000/P/LL plus USTest 2000/U
Site ID:	181108
Spill Tank Test:	1544821
Tank Number:	001
Tank Size:	4000
Test Method:	20
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	USTest 2000/P/LL plus USTest 2000/U

HIST LTANKS:

Region of Spill:	2
Spill Number:	9608849
Spill Date:	10/16/1996
Spill Time:	15:30
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station

EXXON STATION (Continued) **S102143576**

Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	01/09/97
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	O'DOWD
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/16/96
Reported to Department Time:	15:53
SWIS:	61
Spiller Contact:	MIKE MIEOLA
Spiller Phone:	(516) 876-4671
Spiller Extention:	Not reported
Spiller Name:	EXXON STATION
Spiller Address:	546 MORGAN AV
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Cleanup Date:	/ /
Facility Contact:	MIKE MIEOLA
Facility Phone:	(516) 876-4671
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	10/16/96
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	01/09/97
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	001
Tank Size:	4000
Test Method:	USTest 2000
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported
PBS Number:	Not reported
Tank Number:	002
Tank Size:	4000
Test Method:	USTest 2000
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum

EXXON STATION (Continued) **S102143576**

Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 10/16/96 2X4k GASOLINE FAILED UST-2000. LIQUID WAS FOUND IN ANNULAR SPACE IN 1X4K REG U/L AND 1X4K PLUS U/L. SECONDARY USTS TESTED TIGHT. WILL BE LINING THE INNER TANKS. 11/6/96 INTERIOR LINING OF 2X4K DOUBLE WALL BUFFIDE TANKS WAS COMPLETED BY WCC TANK TECHNOLOGY, INC. TANK FAILURE WAS DUE TO AN 1/8 INCH CORROSION HOLE FOUND IN THE LOWER HALF OF EACH TANK. AS REQUIRED BY NYCFD 30 PSI WITNESSES TEST OF THE PRIMARY TANK WAS SUCCESSFULLY COMPLETED ON FRI. 12/8/96. ADDITIONALLY, NYCFD REQUESTED A TEST OF THE SECONDARY TANK WHICH ALSO PASSED. 11/11/96 UST-2000 ULLAGE TEST WAS SUCCESSFULLY PERFORMED BY CROMPCO ON THE PRIMARY AND SECONDARY TANKS. IN AS MUCH AS THERE WAS NO ENVIRONMENTAL IMPACT ATTRIBUTED TO THE FAILURE OF THE PRIMARY TANKS, WITH PRODUCT BEING CONTAINED BY THE SECONDARY TANKS.
Spill Cause: both tanks 001 and 002 failed the ustest 2000 tanks will be uncovered and retested

NY Spills:
Site ID: 181107
Facility Addr2: Not reported
Facility ID: 0403674
Spill Number: 0403674
Facility Type: ER
SWIS: 2401
Investigator: JMROMMEL
Referred To: Not reported
Spill Date: 7/6/2004
Reported to Dept: 7/6/2004
CID: 404
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Citizen
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 9/16/2004
Remediation Phase: 0
Date Entered In Computer: 7/6/2004
Spill Record Last Update: 9/16/2004
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller Company: 001
Contact Name: UNK

EXXON STATION (Continued) **S102143576**

Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 152951
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL" 9/16/04 Rommel input notes from KMF: 7/7/04 Spoke to Michael Lyndon - NYCDEP has been on site several times to fix drainage problem. Hole is drain for canopy. Water backs up on property and may have sheen on it. No active leaks on pumps. Closed and referenced to 0204454. Rommel
Remarks: PUMP CLOSEST TO MORGAN AV UNDER SAFETY CONE THERE IS A HOLE THAT HAS GASOLINE SPILLING FROM IT. THIS IS AN ACTIVE LEAK. UNK IF ANY OTHER RESOURCES ARE AFFECTED. THE GASOLINE IS RUNNING INTO THE STREET.

Material:
Site ID: 181107
Operable Unit ID: 886984
Operable Unit: 01
Material ID: 491241
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Site ID: 92921
Facility Addr2: Not reported
Facility ID: 0204454
Spill Number: 0204454
Facility Type: ER
SWIS: 2401
Investigator: KPSARNOW
Referred To: Not reported
Spill Date: 7/29/2002
Reported to Dept: 7/29/2002
CID: 396
Spill Cause: Equipment Failure
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported

EXXON STATION (Continued) **S102143576**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	True
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/25/2005
Remediation Phase:	0
Date Entered In Computer:	7/29/2002
Spill Record Last Update:	5/1/2006
Spiller Name:	MELISSA WINSOR
Spiller Company:	EXXONMOBIL
Spiller Address:	3225 GALLOWS ROAD
Spiller City,St,Zip:	FAIRFAX, VA 22037-
Spiller Company:	001
Contact Name:	MICHAEL LYDON
Contact Phone:	(718) 389-7767
DEC Region:	2
DER Facility ID:	152951
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL" 7/29/2002-VOUGHT-Spoke with Cushing. Spill was from leak detection line. Spill confined to vault and was pumped out by Mobil contractor. Line was repaired. Reassigned from Vought to Sigona in July 2002. This spill site cleanup has been consolidated under Spill No. 0204454. 2/10/04 reassinged from Sigona to Rommel. See 0403674, 9210796, 9608849 and 0005672. Rommel Filed reviewed and spill closed on 5/25/05. The interior lining of the two 4,000 gallon double-walled tanks were fixed and tanks were pressure tested. Product was contained by secondary tank. The secondary tank was pressure tested and also passed. Sarnowicz
Remarks:	Leak found in sump leak detection system.

Material:

Site ID:	92921
Operable Unit ID:	857252
Operable Unit:	01
Material ID:	518704
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported

EXXON STATION (Continued) **S102143576**

Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	9210796
Investigator:	CAMMISA
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	12/17/1992 14:50
Reported to Dept Date/Time:	12/17/92 15:00
SWIS:	61
Spiller Name:	Not reported
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	12/17/92
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/17/92
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	12/22/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum

EXXON STATION (Continued) **S102143576**

Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Remark: DISPENSER FILTER LEAKING SPILL ON SOIL UNDER DISPENSER IS ANDREW BOWMAN CO INC TO REAPIR AND CLEANUP

AH510 **WASTE MANAGMENT OF NY** **LTANKS** **S103517663**
SSE **123 VARICK AVE** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY** **NY Spills**
0.453 mi.
2394 ft. **Site 2 of 4 in cluster AH**

Relative:
Higher

Actual:
12 ft.

LTANKS:
Site ID: 311469
Spill No: 9805562
Spill Date: 8/4/1998
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: Not reported
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 8/4/1998
CID: 281
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: True
Remediation Phase: 1
Date Entered In Computer: 8/4/1998
Spill Record Last Update: 6/16/2006
Spiller Name: K RADHAKRISHNAN
Spiller Company: WASTE MANAGMENT OF NY
Spiller Address: 123 VARICK AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: KARTHIK RADHAKRISHNAN
Spiller Phone: (718) 533-5388
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 251293
Remarks: TANK FAILURE AT ABOVE LOCATION. MATERIAL CONTAINED AND ALL RECOVERED. NO CALL BACK REQUESTED.

WASTE MANAGMENT OF NY (Continued) **S103517663**

Material:

Site ID:	311469
Operable Unit ID:	1066749
Operable Unit:	01
Material ID:	320302
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	20
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9805562
Spill Date:	08/04/1998
Spill Time:	04:10
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Not reported
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	MULQUEEN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/04/98
Reported to Department Time:	16:23
SWIS:	61
Spiller Contact:	KARTHIK RADHAKRISHNAN
Spiller Phone:	(718) 533-5388
Spiller Extention:	Not reported

WASTE MANAGMENT OF NY (Continued) **S103517663**

Spiller Name: WASTE MANAGMENT OF NY
Spiller Address: 123 VARICK AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller Cleanup Date: / /
Facility Contact: K RADHAKRISHNAN
Facility Phone: (718) 533-5388
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/04/98
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 08/05/98
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 20
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: TANK FAILURE AT ABOVE LOCATION. MATERIAL CONTAINED AND ALL RECOVERED. NO CALL BACK REQUESTED.

NY Spills:
Site ID: 289786
Facility Addr2: Not reported
Facility ID: 0204059
Spill Number: 0204059
Facility Type: ER
SWIS: 2401
Investigator: MXTIPPLE
Referred To: Not reported
Spill Date: 7/18/2002
Reported to Dept: 7/18/2002
CID: 199

WASTE MANAGMENT OF NY (Continued) **S103517663**

Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/30/2002
Remediation Phase:	0
Date Entered In Computer:	7/18/2002
Spill Record Last Update:	7/30/2002
Spiller Name:	MIKE BAVARO
Spiller Company:	CITY & COUNTY PAVING CO
Spiller Address:	11-21 154TH ST
Spiller City,St,Zip:	WHITESTONE, NY 11357-
Spiller Company:	001
Contact Name:	JAY KAPLAN
Contact Phone:	(718) 533-5310
DEC Region:	2
DER Facility ID:	251293
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE" 7/23/2002 SPOKE WITH JAY KAPLAN, HE WILL SEND IN PHOTOS AND MANIFESTS FOR CLOSURE
Remarks:	city and county waste truck was dumping at the transfer station and a container that was ill marked tipped over spilling the materal - all state power vac. is enroute for clean up - they should be able to recover all materal as it spilled to concrete

Material:

Site ID:	289786
Operable Unit ID:	856865
Operable Unit:	01
Material ID:	518318
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported

WASTE MANAGMENT OF NY (Continued) **S103517663**

Test Method: Not reported

AH511 **WASTE MANAGEMENT NY 123** **SWF/LF** **S103592382**
SSE **123 VARICK AVENUE** **FINANCIAL ASSURANCE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.453 mi.
2394 ft. **Site 3 of 4 in cluster AH**

Relative:
Higher

Actual:
12 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Waste Management of NY
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7185335255
Contact Name:	Jay Kaplan
Contact Address:	123 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	jkaplan2@wm.com
Contact Phone:	7185335310
Activity Desc:	Transfer station - regulated
Activity Number:	24W89
Active:	No
East Coordinate:	590588
North Coordinate:	4507083
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Waste Management of NY
Owner Type:	Private
Owner Address:	123 Varick Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11237
Owner Email:	Not reported
Owner Phone:	7185335255
Contact Name:	Jay Kaplan
Contact Address:	123 Varick Avenue
Contact Addr2:	Not reported
Contact City,St,Zip:	Brooklyn, NY 11237
Contact Email:	jkaplan2@wm.com
Contact Phone:	7185335310
Activity Desc:	C&D processing - regulated
Activity Number:	24W89
Active:	Yes
East Coordinate:	590588

WASTE MANAGEMENT NY 123 (Continued) **S103592382**

North Coordinate: 4507083
Accuracy Code: Not reported
Regulatory Status: Permit
Waste Type: Construction & Demolition Debris
Authorization #: Not reported
Authorization Date: 4/11/2002
Expiration Date: 4/11/2007

NY FINANCIAL ASSURANCE:
Owner Name: Waste Management of NY
Region: 2
Estimate Type: Closure
Estimate Amount: 423000
Estimate Date: 3/1/2001
Mechanism: Surety bond - Performance
Mechanism Amount: 451880
Financial Institution: American Home Assurance
Issue Date: Not reported
Expiration Date: Not reported
Activity Number: 24W89
Activity Description: Transfer station - regulated

AH512 **WASTE MANAGEMENT OF NY; LLC** **SWF/LF** **S105841761**
SSE **123 VARICK AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY 11237**
0.453 mi.
2394 ft. **Site 4 of 4 in cluster AH**

Relative:
Higher

Actual:
12 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7185335308
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: TARA HEMMER
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: C&D processing - registered
Activity Number: 24W89
Active: No
East Coordinate: 590500
North Coordinate: 4507400
Accuracy Code: Not reported
Regulatory Status: Permit
Waste Type: Not reported
Authorization #: 2-6104-00013
Authorization Date: 10/30/1996
Expiration Date: 10/30/2001

WASTE MANAGEMENT OF NY; LLC (Continued) **S105841761**

Flag:	INACTIVE
Region Code:	2
Phone Number:	7185335308
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	TARA HEMMER
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T89
Active:	No
East Coordinate:	590500
North Coordinate:	4507400
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6104-00013
Authorization Date:	10/30/1996
Expiration Date:	10/30/2001

AJ513 **810 METROPOLITAN AVE** **LTANKS** **S101174412**
WSW **810 METROPOLITAN AVENUE** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.465 mi.
2453 ft. **Site 1 of 3 in cluster AJ**

Relative:
Higher

Actual:
38 ft.

LTANKS:

Site ID:	158143
Spill No:	9404715
Spill Date:	7/6/1994
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/22/1994
Facility Addr2:	Not reported
Cleanup Ceased:	11/22/1994
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	7/6/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	10/5/1994

810 METROPOLITAN AVE (Continued) **S101174412**

Spill Record Last Update:	3/29/1995
Spiller Name:	Not reported
Spiller Company:	MERIT SERVICE STATION
Spiller Address:	810 METROPOLITAN AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	133692
Remarks:	ISOLATE/RETEST

Material:

Site ID:	158143
Operable Unit ID:	998987
Operable Unit:	01
Material ID:	381316
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	158143
Spill Tank Test:	1542924
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	9404715
Spill Date:	07/06/1994
Spill Time:	14:15
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/22/94
Cleanup Ceased:	11/22/94
Cleanup Meets Standard:	True
Investigator:	O'DOWD

810 METROPOLITAN AVE (Continued) **S101174412**

Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 07/06/94
Reported to Department Time: 14:58
SWIS: 61
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: MERIT SERVICE STATION
Spiller Address: 810 METROPOLITAN AVENUE
Spiller City,St,Zip: BROOKLYN, NEW YORK
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/05/94
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/29/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: 0
Test Method: Not reported
Leak Rate Failed Tank: 0.00
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 03/29/95: GI REPLACED CAP AND REPAIRED ANGLE CHECK RETESTED AND PASSED 9/1/94.
Spill Cause: ISOLATE/RETEST

514
WSW
1/4-1/2
0.466 mi.
2462 ft.

25 BUSHWICK AVE
25 BUSHWICK AVE
BROOKLYN, NY

LTANKS **S102673149**
HIST LTANKS **N/A**

Relative:
Higher

Actual:
40 ft.

LTANKS:

Site ID:	134902
Spill No:	9512040
Spill Date:	12/23/1995
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/4/1999
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	12/23/1995
CID:	252
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/23/1995
Spill Record Last Update:	8/5/1999
Spiller Name:	BARBARA GUNSON
Spiller Company:	BAERENKLAU FUEL OIL
Spiller Address:	740 JAMAICA AVE
Spiller City,St,Zip:	BROOKLYN, NY 11208-
Spiller County:	001
Spiller Contact:	MR GONZALEZ
Spiller Phone:	(718) 456-1874
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	115831
Remarks:	tank over fill onto concrete drive way-oil co on scene for cleanup

Material:

Site ID:	134902
Operable Unit ID:	1022718
Operable Unit:	01
Material ID:	359360
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

25 BUSHWICK AVE (Continued) **S102673149**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	9512040
Spill Date:	12/23/1995
Spill Time:	14:45
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	07/04/99
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	ZHITOMIRSKY
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	12/23/95
Reported to Department Time:	15:09
SWIS:	61
Spiller Contact:	MR GONZALEZ
Spiller Phone:	(718) 456-1874
Spiller Extention:	Not reported
Spiller Name:	BAERENKLAU FUEL OIL
Spiller Address:	740 JAMAICA AVE
Spiller City,St,Zip:	BROOKLYN, NY 11208-
Spiller Cleanup Date:	/ /
Facility Contact:	BARBARA GUNSON
Facility Phone:	(718) 647-4200
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False

25 BUSHWICK AVE (Continued) **S102673149**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/23/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 08/05/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: tank over fill onto concrete drive way-oil co on scene for cleanup

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AK515 **N.Y. CARTING CO. INC.** **SWF/LF** **S105841741**
North **137 CHERRY STREET** **N/A**
1/4-1/2 **BROOKLYN, NY 11222**
0.471 mi.
2487 ft. **Site 1 of 2 in cluster AK**

Relative:
Higher

Actual:
27 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 2
Phone Number: 7186673366
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: PAUL SERRA; SUPERVISOR
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Transfer station - regulated
Activity Number: 24T46
Active: No
East Coordinate: 589800
North Coordinate: 4508800

N.Y. CARTING CO. INC. (Continued) **S105841741**

Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Not reported
Authorization #: 2-6101-00056
Authorization Date: Not reported
Expiration Date: Not reported

AJ516 **METROPOLITAN AVE/MERRIT** **LTANKS** **S102671408**
WSW **METROPOLITAN&BUSHWICK AVE** **HIST LTANKS** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.471 mi.
2489 ft. **Site 2 of 3 in cluster AJ**

Relative:
Higher

Actual:
39 ft.

LTANKS:

Site ID:	252968
Spill No:	8903546
Spill Date:	7/9/1989
Spill Cause:	Tank Overfill
Spill Source:	Gasoline Station
Spill Class:	Not reported
Spill Closed Dt:	7/10/1989
Facility Addr2:	Not reported
Cleanup Ceased:	7/10/1989
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	7/9/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	7/11/1989
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	ISLAND TRANSPORTATION
Spiller Address:	5700 47TH STREET
Spiller City,St,Zip:	MASPETH, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	207227
Remarks:	FIRE DEPT ON SCENE, SPILL CLEANED UP WITH SPEEDY DRY, REPORT CONFIRMEDWITH FIRE DEPT DISPATCHER.

Material:

Site ID:	252968
Operable Unit ID:	931040
Operable Unit:	01
Material ID:	447631
Material Code:	0009
Material Name:	Gasoline

METROPOLITAN AVE/MERRIT (Continued) **S102671408**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	2
Spill Number:	8903546
Spill Date:	07/09/1989
Spill Time:	23:45
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Not reported
Spill Closed Dt:	07/10/89
Cleanup Ceased:	07/10/89
Cleanup Meets Standard:	True
Investigator:	AUSTIN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/09/89
Reported to Department Time:	23:52
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	ISLAND TRANSPORTATION
Spiller Address:	5700 47TH STREET
Spiller City,St,Zip:	MASPETH, NY
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported

METROPOLITAN AVE/MERRIT (Continued) **S102671408**

Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 07/11/89
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 07/10/89: NO ACTION REQUIRED OF DEC DUE TO SIZE OF SPILL.
Spill Cause: FIRE DEPT ON SCENE, SPILL CLEANED UP WITH SPEEDY DRY, REPORT CONFIRMEDWITH FIRE DEPT DISPATCHER.

AJ517 **SHELL** **LTANKS** **S106125711**
WSW **2 BUSHWICK AVENUE** **HIST LTANKS** **N/A**
1/4-1/2 **BROOKLYN, NY** **NY Spills**
0.473 mi. **NY Hist Spills**
2495 ft. **Site 3 of 3 in cluster AJ**

Relative:
Higher

Actual:
38 ft.

LTANKS:
Site ID: 182085
Spill No: 8900824
Spill Date: 4/26/1989
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station
Spill Class: Not reported
Spill Closed Dt: 4/30/1991
Facility Addr2: Not reported
Cleanup Ceased: 4/30/1991
Cleanup Meets Standard: True
SWIS: 2401
Investigator: SULLIVAN
Referred To: Not reported

SHELL (Continued) **S106125711**

Reported to Dept:	4/26/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	5/2/1989
Spill Record Last Update:	10/18/2004
Spiller Name:	Not reported
Spiller Company:	SHELL OIL
Spiller Address:	2 BUSHWICK AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	317029
Remarks:	550 GALLON TANK FAILED TANK AUDITOR WITH A LEAK RATE OF .10GPH, WILL EXCAVATE & REPAIR & RETEST, POSSIBLE PIPE LEAK,DEC INVESTIGATED SITE.

Material:

Site ID:	182085
Operable Unit ID:	927385
Operable Unit:	01
Material ID:	452150
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	182085
Spill Tank Test:	1535388
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

HIST LTANKS:

Region of Spill:	2
Spill Number:	8900824
Spill Date:	04/26/1989
Spill Time:	18:30

SHELL (Continued) **S106125711**

Spill Cause:	Tank Test Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Not reported
Spill Closed Dt:	04/30/91
Cleanup Ceased:	04/30/91
Cleanup Meets Standard:	True
Investigator:	SULLIVAN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	04/26/89
Reported to Department Time:	19:03
SWIS:	61
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SHELL SERVICE STATION
Spiller Address:	2 BUSHWICK AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(516) 942-4122
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	2-190411
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	05/02/89
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	06/26/95
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	0
Test Method:	Not reported
Leak Rate Failed Tank:	0.00
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	-1
Unkonwn Quantity Spilled:	False
Units:	Not reported

SHELL (Continued) **S106125711**

Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: 550 GALLON TANK FAILED TANK AUDITOR WITH A LEAK RATE OF .10GPH, WILL EXCAVATE REPAIR RETEST, POSSIBLE PIPE LEAK,DEC INVESTIGATED SITE.

NY Spills:
Site ID: 274225
Facility Addr2: Not reported
Facility ID: 8901576
Spill Number: 8901576
Facility Type: ER
SWIS: 2401
Investigator: TAYLOR
Referred To: Not reported
Spill Date: 5/16/1989
Reported to Dept: 5/17/1989
CID: Not reported
Spill Cause: Human Error
Water Affected: Not reported
Spill Source: Tank Truck
Spill Notifier: Responsible Party
Cleanup Ceased: 5/17/1989
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Not reported
Spill Closed Dt: 5/17/1989
Remediation Phase: 0
Date Entered In Computer: 5/30/1989
Spill Record Last Update: 3/1/2004
Spiller Name: Not reported
Spiller Company: SHELL
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 317029
DEC Memo: Not reported
Remarks: RAIN WASHED PRODUCT INTO SEWER.

Material:
Site ID: 274225
Operable Unit ID: 927618
Operable Unit: 01
Material ID: 559461
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported

SHELL (Continued) **S106125711**

Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	274226
Facility Addr2:	Not reported
Facility ID:	9110815
Spill Number:	9110815
Facility Type:	ER
SWIS:	2401
Investigator:	KMFOLEY
Referred To:	Not reported
Spill Date:	1/16/1992
Reported to Dept:	1/17/1992
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	6/9/2005
Remediation Phase:	0
Date Entered In Computer:	2/6/1992
Spill Record Last Update:	6/9/2005
Spiller Name:	Not reported
Spiller Company:	SHELL OIL
Spiller Address:	ONE JERICHO PLAZA
Spiller City,St,Zip:	JERICHO, NY 11753-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	317029
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "K FOLEY" SITE IS NOW AN AMOCO, OWNED NY WOLF PETROLEUM, PBS #2-1904112.

SHELL (Continued) **S106125711**

DTW:22-24': GWF:NE. PRODUCT IN MW-2 AND MW-3. 8/5/99 mtg: EnviroTrac will review and submit all historical data related to this site going back to the early 1990's. EnviroTrac will also review the contamination in well #3 and propose a clean up system (possibly biological) 11/03 Reassigned from Sangesland to K Foley. 11/20/03 E-mail from Steve Sangesland to Rob Rule: "It requires opening up a new spill for Amoco before closing out the old Shell spill case for the site. I believe Shell has made it's case that the present problem is due to Amoco's action, but Kerry will need to take action on it." 2/4/04 Spoke to Rob Rule. Requested he send actual historic concentration data. Data from post-1999 is indicative of a new release, however Shell needs to prove their case that concentrations were decreasing toward and close to groundwater standards. Rob indicated they have previously tried to come to an agreement with Wolf Petroleum but had no response. 2/6/04 Received email from P. Sherwood, Phoenix Environmental. He attached copy of 6/6/03 letter to S. Sangesland requesting closure. Shell sold property to Wolf in April 1992. A product recovery pump and SVE system were operated by Shell from 1993 to 1994 to address residual hydrocarbons. Groundwater sampling continued until January 2000. Samples were collected and analyzed for VOCs and SVOCs in February 2003. From July 1990 to Februrary 1998, MTBE concentrations in on-site wells MW-2 and MW-4 ranged from non-detect to 986ppb. From Februrary 1999 to February 2003, MTBE concentrations in wells MW-2 and MW-4 ranged from 619ppb to 34,400ppb. Highest concentrations of MTBE in wells MW-2 and MW-4 were 34,400ppb and 23,300ppb, respectively. From 1990 to 1991, MTBE concentrations in MW-3 ranged from 24,400ppb to 26,000ppb. Product was detected intermittently in MW-3 from 1991 to 2003. On March 30, 1998 product was not present and a groundwater sample was collected with MTBE conc at 3,990ppb. In the most recent groundwater sampling results of MW-3, collected in 2000, MTBE ranged from 181,000ppb to 842,000ppb. In 1990 and 1991, groundwater samples were collected from MW-1 and analyzed for MTBE. Concentrations ranged from 1,600ppb to 24,000ppb. MW-1 was destroyed in 1993. MTBE concentrations in MW-1 appear to be a minor spike, localized to the tank field area. This is supported by the fact MTBE concentrations in downgradient well MW-2 ranged from 14ppb to 986ppb until 1999, when concentrations increased significantly. 6/8/04 Meeting with Shell. They agreed to keep monitoring gw until legal issues have been resolved with Wolf for spill #0330060. DEC expects resolution in 6-12 months. 11/23/04 Met with P. Sherwood, B. Hoashi(Phoenix) and R. Rule(Shell). Samples collected 8/30/04 showed 0.38' free product in MW-3. BTEX ranged from 3ppb(MW-2) to 20ppb(MW-4). MTBE from 18ppb(MW-2) to 251ppb(MW-4). Requesting closure due spill under new owner. See spill #0330060.

Remarks: PRODUCT IN SITE WELL MW3. WAS SULLIVAN SPILL. RE ASSIGNED TO MULQUEEN 4/18/95. SHELL ADDRESSING PROBLEM AT SITE, SEE FILE

Material:

Site ID:	274226
Operable Unit ID:	964669
Operable Unit:	01
Material ID:	415894
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds

SHELL (Continued) **S106125711**

Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	274226
Operable Unit ID:	964669
Operable Unit:	01
Material ID:	2096641
Material Code:	1213A
Material Name:	MTBE (METHYL-TERT-BUTYL ETHER)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:

Region of Spill:	2
Spill Number:	8901576
Investigator:	TAYLOR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/16/1989 09:30
Reported to Dept Date/Time:	05/17/89 09:59
SWIS:	61
Spiller Name:	SHELL
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Human Error
Reported to Dept:	In Sewer
Water Affected:	Not reported
Spill Source:	08
Spill Notifier:	Responsible Party

SHELL (Continued) **S106125711**

PBS Number: Not reported
Cleanup Ceased: 05/17/89
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 05/17/89
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/30/89
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/26/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: RAIN WASHED PRODUCT INTO SEWER.

Region of Spill: 2
Spill Number: 9110815
Investigator: MULQUEEN/SANGESLAND
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 01/16/1992 16:00
Reported to Dept Date/Time: 01/17/92 09:45
SWIS: 61
Spiller Name: SHELL
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: ONE JERICHO PLAZA
Spiller City,St,Zip: JERICHO, NY 11753-

SHELL (Continued) **S106125711**

Spill Cause: Unknown
Reported to Dept: Groundwater
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/06/92
Date Spill Entered In Computer Data File: Not reported
Update Date: 08/10/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: -1
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: SITE IS NOW AN AMOCO, OWNED NY WOLF PETROLEUM, PBS 2-1904112. DTW:22-24 : GWF:NE PRODUCT IN MW-2 AND MW-3. 8/5/99 mtg: EnviroTrac will review and submit all historical data related to this site going back to the early 1990 s. EnviroTrac willalso review the contamination in well 3 and propose a clean up system possibly biological)
Remark: PRODUCT IN SITE WELL MW3. WAS SULLIVAN SPILL. RE ASSIGNED TO MULQUEEN 4/18/95. SHELL ADDRESSING PROBLEM AT SITE, SEE FILE

518
South
1/4-1/2
0.473 mi.
2500 ft.

140 MORGAN AVE/BROOKLYN
140 MORGAN AVENUE
BROOKLYN, NY

LTANKS **S106703417**
HIST LTANKS **N/A**

Relative:
Higher

Actual:
13 ft.

LTANKS:

Site ID:	113471
Spill No:	8910515
Spill Date:	1/30/1990
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported
Spill Closed Dt:	2/3/1990
Facility Addr2:	Not reported
Cleanup Ceased:	2/3/1990
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	2/2/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/7/1990
Spill Record Last Update:	4/9/2003
Spiller Name:	Not reported
Spiller Company:	PETRO HEAT & POWER
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	99025
Remarks:	CUSTOMER OVER ORDERED & FUEL GAUGE WAS BROKEN, CLEANED UP BY PETRO HEAT & POWER SPILL TEAM.

Material:

Site ID:	113471
Operable Unit ID:	937444
Operable Unit:	01
Material ID:	443617
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

140 MORGAN AVE/BROOKLYN (Continued) **S106703417**

Tank Test:
- Site ID: Not reported
- Spill Tank Test: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate: Not reported
- Gross Fail: Not reported
- Modified By: Not reported
- Last Modified: Not reported
- Test Method: Not reported

HIST LTANKS:
- Region of Spill: 2
- Spill Number: 8910515
- Spill Date: 01/30/1990
- Spill Time: 16:00
- Spill Cause: Tank Overfill
- Resource Affectd: On Land
- Water Affected: Not reported
- Spill Source: Private Dwelling
- Spill Class: Not reported
- Spill Closed Dt: 02/03/90
- Cleanup Ceased: 02/03/90
- Cleanup Meets Standard: True
- Investigator: TOMASELLO
- Caller Name: Not reported
- Caller Agency: Not reported
- Caller Phone: Not reported
- Caller Extension: Not reported
- Notifier Name: Not reported
- Notifier Agency: Not reported
- Notifier Phone: Not reported
- Notifier Extension: Not reported
- Reported to Department Date: 02/02/90
- Reported to Department Time: 20:40
- SWIS: 61
- Spiller Contact: Not reported
- Spiller Phone: Not reported
- Spiller Extention: Not reported
- Spiller Name: PETRO HEAT & POWER
- Spiller Address: Not reported
- Spiller City,St,Zip: Not reported
- Spiller Cleanup Date: / /
- Facility Contact: Not reported
- Facility Phone: Not reported
- Facility Extention: Not reported
- Spill Notifier: Responsible Party
- PBS Number: Not reported
- Last Inspection: / /
- Recommended Penalty: Penalty Not Recommended
- Enforcement Date: / /
- Investigation Complete: / /
- UST Involvement: False
- Date Region Sent Summary to Central Office: / /

140 MORGAN AVE/BROOKLYN (Continued) **S106703417**

Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 02/07/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 3
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: CUSTOMER OVER ORDERED FUEL GAUGE WAS BROKEN, CLEANED UP BY PETRO HEAT POWER SPILL TEAM.

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519 **EMEQUIFT CHEMICAL CORP - MISC** **LTANKS** **S106971941**
SSE **100 VARICK AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.476 mi.
2515 ft.

Relative:
Higher

Actual:
13 ft.

LTANKS:
Site ID: 346803
Spill No: 0502445
Spill Date: 5/31/2005
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 5/31/2006
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: rjfeng
Referred To: MW INSTALLATION DUE 5/31/2006
Reported to Dept: 5/31/2005
CID: 407
Water Affected: Not reported
Spill Notifier: Federal Government
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Involvement: False

EMEQUIFT CHEMICAL CORP - MISC (Continued) **S106971941**

Remediation Phase:	0
Date Entered In Computer:	5/31/2005
Spill Record Last Update:	5/31/2006
Spiller Name:	WALTER SCHWARTZ
Spiller Company:	EMEQUIFT CHEMICAL CORP
Spiller Address:	100 BARICK AVE
Spiller City,St,Zip:	BROOKLYN, NY 11237
Spiller County:	001
Spiller Contact:	JOESEPH CREFCENZO
Spiller Phone:	(718) 497-1200
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	293056
Remarks:	Not reported

Material:

Site ID:	346803
Operable Unit ID:	1104563
Operable Unit:	01
Material ID:	584785
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	346803
Operable Unit ID:	1104563
Operable Unit:	01
Material ID:	584786
Material Code:	0055A
Material Name:	PAINT
Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

AK520
North
1/4-1/2
0.483 mi.
2548 ft.

PURE BURN; INC.
530 GARDNER AVENUE
BROOKLYN, NY 11222

Site 2 of 2 in cluster AK

SWF/LF **S105841919**
N/A

Relative:
Higher

Actual:
22 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183870145
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	JOSEPH VECCHIO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registered
Activity Number:	24WC7
Active:	No
East Coordinate:	590250
North Coordinate:	4508856
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

521
ENE
1/4-1/2
0.483 mi.
2550 ft.

MASPETH RECYCLING CIPICO
58-08 48 STREET
MASPETH, NY 11106

SWF/LF **S105841245**
N/A

Relative:
Higher

Actual:
14 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7186281290
Owner Name:	Domenick Cysollone
Owner Type:	Not reported
Owner Address:	58-08 48th St.
Owner Addr2:	Not reported
Owner City,St,Zip:	Maspeth, NY 11378
Owner Email:	Not reported
Owner Phone:	7186281290
Contact Name:	Mike Schneider
Contact Address:	58-08 48th St.
Contact Addr2:	Not reported
Contact City,St,Zip:	Maspeth, NY 11378
Contact Email:	Not reported
Contact Phone:	7186281290
Activity Desc:	C&D processing - registered
Activity Number:	41W39

MASPETH RECYCLING CIPICO (Continued) **S105841245**

Active:	Yes
East Coordinate:	591000
North Coordinate:	4508900
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6304-00215
Authorization Date:	Not reported
Expiration Date:	Not reported

522
NNW
1/4-1/2
0.488 mi.
2579 ft.

ASTORIA CARTING **SWF/LF** **S102632766**
538 STEWART AVENUE **N/A**
BROOKLYN, NY 11222

Relative:
Higher

Actual:
33 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	2
Phone Number:	7183872077
Owner Name:	Astoria Carting Company Inc
Owner Type:	Private
Owner Address:	538 Stewart Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY
Owner Email:	p.nehme@verizon.net
Owner Phone:	7183872077
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - regulated
Activity Number:	24W06
Active:	Yes
East Coordinate:	590084
North Coordinate:	4508902
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Construction & Demolition Debris
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

523
NNW
1/4-1/2
0.496 mi.
2618 ft.

J.D.F. TRANSFER INC. **SWF/LF** **S105841725**
548 VARICK STREET **N/A**
BROOKLYN, NY 0

Relative:
Higher

Actual:
43 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7183882183
Owner Name:	Joseph Francobino Jr.

J.D.F. TRANSFER INC. (Continued) **S105841725**

Owner Type:	Not reported
Owner Address:	548 Varick Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY
Owner Email:	Not reported
Owner Phone:	7183882183
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - regulated
Activity Number:	24T36
Active:	No
East Coordinate:	589800
North Coordinate:	4508700
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6101-00065/00001-0
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	2
Phone Number:	6103173200
Owner Name:	IESI NY Corp
Owner Type:	Private
Owner Address:	1099 Wall St W Ste 250
Owner Addr2:	Not reported
Owner City,St,Zip:	Lyndhurst, NJ 7071
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Don Kerik
Contact Address:	IESI NY Corporation (201)443-3000
Contact Addr2:	1099 Wall Street West; Suite 250
Contact City,St,Zip:	Lyndhurst, NJ 7071
Contact Email:	Not reported
Contact Phone:	7183882183
Activity Desc:	C&D processing - regulated
Activity Number:	24W36
Active:	Yes
East Coordinate:	589800
North Coordinate:	4508700
Accuracy Code:	2.1 - NYSDEC 100 m grid collection
Regulatory Status:	Permit
Waste Type:	Construction & Demolition Debris;Metal (Structural)
Authorization #:	2-6101-00065
Authorization Date:	12/7/1995
Expiration Date:	12/7/2001

524
West
1/2-1
0.627 mi.
3313 ft.

CITY BARREL CO.
421-429 MEEKER STREET
BROOKLYN, NY 11378

DEL SHWS **S105972440**
N/A

Relative:
Higher

Actual:
17 ft.

DEL SHWS:

Year:	Not reported
Site Code Id:	224005
Site Classification:	D1
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	0 0’ 0" / 0 0’ 0"
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Not reported
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	421-429 Meeker Street
Owner City,St,Zip:	Brooklyn 11378
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Not reported
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported

CITY BARREL CO. (Continued) **S105972440**

Oper During Disposal:	Not reported
Site Type:	Not reported
HW Disposal Period:	From: To:
Analytical Data Available:	Not reported
Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Not reported
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	This site was listed in the Eckhardt subcommittee report as a disposal site. Investigation by the NYSDEC Regional offices indicate that this is an industrial operation to recycle, recover and refurbish drums and that no apparent disposal of hazardous or toxic waste have occurred here.
Confirmed HW:	unknown
Environment Assesment:	None known. No apparent disposal of significant quantities of any hazardous waste.
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	0
NYTM Y:	0
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	Not reported
Env Assessment:	Not reported
HW Disposed/Quantity:	Not reported
Assess/Env Prog:	Not reported
Assess/Health Prob:	Not reported
Site Description:	Not reported

525 NNE 1/2-1 0.628 mi. 3316 ft. **PHELPS DODGE REFINING CORPORATION** **SHWS** **S103350610**
42-02 56TH ROAD **N/A**
MASPETH, NY 11378

Relative: Lower

Actual: 7 ft.

SHWS:

Program:	HW
Site Code:	58835
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	35.800
HW Code:	241002
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/29/2010 1:49:00 PM
Updated By:	JHOCONNE

Site Description: This site has been industrialized since 1891. It is surrounded by other industries and is located east of the Kosciuszko Bridge. Newtown Creek flows along the southern boundary of the facility. Phelps Dodge Refining Corporation used the facility from 1920-1983 for the production of tri-basic copper sulfate (pesticides), copper and sulfate pentahydrate, and as a copper refinery. Waste sludges from the processes were stored in an unlined lagoon. Plant operations at the Laurel Hill facility have been discontinued since 1983. In 1986, the Phelps Dodge Refining Corp. excavated more than 10,000 cubic yards of contaminated soils from a 3.5 acre hotspot area, and transported and disposed this material in a chemical waste facility in Ohio. The New York City Department of Environmental Protection completed a Remedial Investigation/Feasibility Study (RI/FS) in 1994 and indicated contamination on other areas of the site. Phelps Dodge entered into a Consent Agreement with NYSDEC for RI/FS and IRMs for this site. IRMs involving asbestos abatement, waste removal and building demolition were completed in October 2000. An RI/FS was completed in 2002 and a Record of Decision (ROD) was signed on January 23, 2003. The ROD divided the property into six Operable Units (OU-1 through OU-5 were land based, and OU-6 for surface waters and sediments of Newtown Creek). The ROD selected a remedy including hotspot soil removal; capping of the entire property; installation of a groundwater barrier wall along the creek; a groundwater extraction and disposal system; and institutional controls. The hotspot soil removal portion of the remedy was completed in 2004. In 2004, Phelps Dodge sold the property to a developer (Sagres Partners) which has further subdivided the site into various parcels. Site redevelopment is continuing in phases. Capping of several Operable Units is completed and various parcels have been developed for industrial uses. Phelps Dodge has designed a sheet steel barrier wall and groundwater treatment system. Construction of barrier wall and groundwater extraction and treatment system is completed. The Groundwater treatment system began operating in 2006.

Env Problem: The primary contaminants of concern at the site are heavy metals (including cadmium, chromium, copper, lead, mercury, and others), petroleum related hydrocarbons, and PCBs. Investigations indicate a plume of groundwater contaminated with metals exists underneath the property. Even though hot-spot soil removal has been completed, the property still contains elevated levels of heavy metal and semi-volatile contamination of soils. Under the ROD, these will be managed through placement of a site cap, a site management plan, and institutional controls. The property is fenced and secured and is

PHELPS DODGE REFINING CORPORATION (Continued) **S103350610**

	undergoing remediation. A groundwater extraction and treatment system is operational.
Health Problem:	The potential for human exposure is limited to physical contact with contaminated soils on-site. Access to the site is restricted by fences and security personnel. Remediation of the site includes a site-specific cap, which will minimize the potential for expsoures. Areas adjacent to the site are heavily developed with commercial/industrial facilities. Off-site exposures to site related contaminants are not expected. The surrounding area is served by public water.
Dump:	False
Structure:	False
Lagoon:	True
Landfill:	False
Pond:	False
Disp Start:	1940
Disp Term:	1983
Lat/Long:	40:43:34:0 / 73:55:32:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	12/23/2004 9:55:00 AM
Updated By:	JMOCONNE
Own Op:	Owner
Sub Type:	D
Owner Name:	Not reported
Owner Company:	PHELPS DODGE REFINING CORPORATION
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	PHELPS DODGE REFINING CORPORATION
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	01
Owner Name:	MR. MICHAEL WOOD
Owner Company:	PHELPS DODGE REFINING CORPORATION
Owner Address:	ONE NORTH CENTRAL AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	PHOENIX, AZ 85004
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	D
Owner Name:	Not reported
Owner Company:	PHELPS DODGE REFINING CORPORATION
Owner Address:	42-02 56TH RD.
Owner Addr2:	Not reported
Owner City,St,Zip:	MASPETH, NY
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported

PHELPS DODGE REFINING CORPORATION (Continued) **S103350610**

Owner Company:	Phelps Dodge Refining Corporation
Owner Address:	42-02 56th Road
Owner Addr2:	Not reported
Owner City,St,Zip:	Maspeth, NY 11378
Owner Country:	United States of America
HW Code:	241002
Waste Type:	ASBESTOS
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	CADMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	ARSENIC
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241002
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	015
Cross Ref Type Code:	13
Cross Ref Type:	Senate District
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	2/24/2005 3:54:00 PM
Updated By:	INITIAL
Crossref ID:	09
Cross Ref Type Code:	15
Cross Ref Type:	Congressional District
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	2/24/2005 3:54:00 PM
Updated By:	INITIAL
Crossref ID:	NYD039138789
Cross Ref Type Code:	05
Cross Ref Type:	EPA Site ID
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	5/10/2001 4:31:00 PM
Updated By:	REGTRANS

526
NNW
1/2-1
0.778 mi.
4106 ft.

FORMER SPIC AND SPAN CLEANERS AND DYERS, INC.
315 KINGSLAND AVENUE
BROOKLYN, NY 11222

SHWS **S109416408**
N/A

Relative:
Higher

Actual:
20 ft.

SHWS:

Program:	HW
Site Code:	405850
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	.510
HW Code:	224129
Record Add:	10/28/2008 9:49:00 AM
Record Upd:	6/23/2010 11:36:00 AM
Updated By:	JAAVERSA
Site Description:	The site is located in a mixed residential/commercial/industrial area of the Greenpoint section of Kings County (Borough of Brooklyn, New York City). The site is located on the southwest corner of the intersection of Kingsland and Norman Avenues. The site is completely covered by multiple buildings of varying construction and height. The site is currently occupied, and is utilized for a variety of purposes (residential, warehousing, woodworking shop, etc.). A large residential area is located immediately adjacent to the site, and extends south along both Kingsland Avenue and Monitor Street. The site was historically operated by Spic and Span Cleaners and Dyers, Inc. (a.k.a. Eastern District Dye Works) from the early 1900's until the mid-1960's. The Department began a Site Characterization in this area during the Spring of 2007 as part of a plume trackdown investigation (Meeker Avenue Plume Trackdown, DEC Site ID #224121). This location was specifically targeted for investigation based on Sanborn fire insurance map data indicating the site s former usage as noted above.
Env Problem:	The primary contaminant of concern at the site is tetrachloroethene (PCE). PCE has been found on-site in shallow groundwater at concentrations up to 39,000 ppb. PCE DNAPL has been found on-site at concentrations up to 730,000 ppm (73%) in deep monitoring wells. Groundwater standards have been exceeded for PCE. PCE-contaminated soil vapor could potentially be migrating toward nearby residential areas. Soil vapor with elevated levels of PCE has been found in sub-slab samples collected from the nearby residential area. The site poses a significant environmental threat due to ongoing release of PCE into soil and groundwater.
Health Problem:	Exposure to site-related contamination in drinking water and soil is unlikely since area homes and businesses are supplied with public water and contaminants are below the ground surface. Since the possibility exists for vapors from site-related chemicals to migrate into nearby homes and businesses, soil vapor intrusion sampling will continue in the area and data evaluated as they become available.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported

FORMER SPIC AND SPAN CLEANERS AND DYERS, INC. (Continued) **S109416408**

Record Add:	10/28/2008 12:22:00 PM
Record Upd:	10/28/2008 12:22:00 PM
Updated By:	MOBARRIE
Own Op:	Owner
Sub Type:	01
Owner Name:	Not reported
Owner Company:	DELTA PROPERTY ASSOCIATES
Owner Address:	260 NORMAN AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 11201
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	05
Owner Name:	DOUBLE STAR REALESTATE, INC.
Owner Company:	DOUBLE STAR REALESTATE, INC.
Owner Address:	307 KINGSLAND AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 11222
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	05
Owner Name:	FRANK CHAN
Owner Company:	DOUBLE STAR REALESTATE, INC.
Owner Address:	307 KINGSLAND AVENUE
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 11222
Owner Country:	United States of America
HW Code:	224129
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	224132
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224131
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224130
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	10/31/2008 2:34:00 PM
Record Updated:	10/31/2008 2:34:00 PM
Updated By:	MOBARRIE
Crossref ID:	224121
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	1/30/2009 12:35:00 PM
Record Updated:	1/30/2009 12:35:00 PM
Updated By:	JAAVERSA

AL527 **TECHNICAL METAL FINISHERS** **DEL SHWS** **S105973019**
SSE **214 STARR STREET** **N/A**
1/2-1 **BROOKLYN, NY**
0.848 mi.
4476 ft. **Site 1 of 2 in cluster AL**

Relative:
Higher

Actual:
33 ft.

DEL SHWS:

Year:	Not reported
Site Code Id:	224008
Site Classification:	D2
Region:	2
Epa Id Number:	NYD980780894
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	40 42’ 22 / 73 55’ 22
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	In Progress
Soil Type:	Not reported
Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Al Rozell
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported

TECHNICAL METAL FINISHERS (Continued) **S105973019**

Oper During Disposal:	Not reported
Site Type:	Structure
HW Disposal Period:	From: unknown To: unknow
Analytical Data Available:	Soil
Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Range: 1 to 5 feet.
Status:	Not reported
Nature Of Action:	Removal of surface wastes comp. Pos. soil cont.
Env Prob Assessment:	Not reported
Site Description:	The Technical Metal Finishers Company was a plating company located in a light industrial/residential area. The company is out of business and the site is abandoned. The site was discovered in June 1982 when a fire occurred at the abandoned plant. The facility contained waste acids, caustics and cyanides stored in tanks and drums. The wastes contained in the tanks and drums were removed by a contractor hired by NYC Dept. of Environmental Protection. Clean up has been initiated by NYC Dept. of Environmental Protection through contract with Radiac Research Corporation. All tanks and debris have been removed from site and soil has been excavated. The building was demolished, and all work has been completed.
Confirmed HW:	Possible contaminated floor boards and soil at site: unknown
Environment Assesment:	Not reported
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	0
NYTM Y:	0
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	Not reported
Env Assessment:	Not reported
HW Disposed/Quantity:	Not reported
Assess/Env Prog:	Not reported
Assess/Health Prob:	Not reported
Site Description:	Not reported

AL528 **TECHNICAL METAL FINISHERS** **CERC-NFRAP** **1003864057**
SSE **214 STARR STREET** **SHWS** **NYD980780894**
1/2-1 **BROOKLYN, NY 11237**
0.848 mi.
4476 ft. **Site 2 of 2 in cluster AL**

Relative:
Higher

Actual:
33 ft.

CERC-NFRAP:
Site ID: 0202279
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 09/01/1984
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 09/01/1984
Priority Level: Low priority for further assessment

Action: SITE INSPECTION
Date Started: 05/01/1985
Date Completed: 05/31/1985
Priority Level: Low priority for further assessment

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/30/1997
Priority Level: Not reported

SHWS:
Program: HW
Site Code: 57764
Classification: C
Region: 2
Acres: Not reported
HW Code: 224008
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 3/23/2007 11:43:00 AM
Updated By: dcwalsh
Site Description: The Technical Metal Finishers Company was a plating company located in a light industrial/residential area. The company is out of business and the site is abandoned. The site was discovered in June 1982 when a fire occurred at the abandoned plant. The facility contained waste acids, caustics and cyanides stored in tanks and drums. The wastes contained in the tanks and drums were removed by a contractor hired by NYC Dept. of Environmental Protection. Clean up has been initiated by NYC Dept. of Environmental Protection through contract with Radiac Research Corporation. All tanks and debris have been removed from site and soil has been excavated. The building was demolished, and all work has been completed.
Env Problem: The site was delisted from the Registry as removal action conducted at the site has removed all hazardous waste.
Health Problem: NYSDOH has insufficient information to fully evaluate the potential for human exposures.

TECHNICAL METAL FINISHERS (Continued) **1003864057**

Dump:	False
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	unknown
Disp Term:	unknown
Lat/Long:	40:42:22:0 / 73:55:22:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/18/1999 12:00:00 PM
Updated By:	INITIAL
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	AL ROZELL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	AL ROZELL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	224008
Waste Type:	POSSIBLE CONTAMINATED FLOOR BOARDS
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224008
Waste Type:	AND SOIL AT SITE.
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	11
Cross Ref Type Code:	15
Cross Ref Type:	Congressional District
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	2/24/2005 3:54:00 PM
Updated By:	INITIAL
Crossref ID:	NYD980780894
Cross Ref Type Code:	05
Cross Ref Type:	EPA Site ID
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	5/10/2001 4:31:00 PM
Updated By:	REGTRANS
Crossref ID:	020
Cross Ref Type Code:	13
Cross Ref Type:	Senate District
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	2/24/2005 3:54:00 PM
Updated By:	INITIAL

AM529 **QUANTA RESOURCES** **SHWS** **S108413225**
NNW **37-80 REVIEW AVENUE** **VAPOR REOPENED** **N/A**
1/2-1 **LONG ISLAND CITY, NY** **MOSF**
0.890 mi.
4700 ft. **Site 1 of 2 in cluster AM**

Relative:
Higher

Actual:
37 ft.

SHWS:
Program: HW
Site Code: 58532
Classification: SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region: 2
Acres: 2.000
HW Code: 241005
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/3/2010 11:04:00 AM
Updated By: JCGRATHW
Site Description: The Quanta Resources Site is an approximately 1.8 acre parcel located at 37-80 Review Avenue, within a highly industrialized area of Long Island City, Queens, New York. Zoning in this area is designated as heavy manufacturing. The site is bounded on the northeast by Review Avenue and on the southwest by the Southern Line of the Long Island Rail Road (LIRR). On the northwest it is bounded by an alley (Preston Street) that runs from Review Avenue to the LIRR tracks. On the southeast it is bounded by the property currently owned by Phoenix Beverages (an imported beer distributor). Farther to the northeast, across Review Avenue, is Calvary Cemetery. Farther to the northwest, across the alley, is the North Capasso property, also referred to as Review Avenue Development I (RADI). Farther to the southwest, across the LIRR tracks, is the South Capasso property. Newtown Creek lies beyond the South Capasso property farther to the southeast approximately 450 feet from the site. Fencing bounds the property on all sides. A Consent Order was signed with numerous PRPs in May 2002 for the undertaking of investigation and remediation activities. An RI/FS was completed. Soil and groundwater contamination has been confirmed. The primary contaminants of concern include petroleum hydrocarbons, chlorinated solvents, PCBs, heavy metals and PAHs. Measurable LNAPL was found in 24 of 29 onsite and offsite monitoring wells. The Site was accepted into BCP. The BCA agreement was executed on 12/2/05 (see C241005). A PRAP was issued in June 2006. A PRAP Public Meeting was held on June 28, 2006 and the public comment period closed on August 3, 2006. The ROD was signed 2/9/07 requiring a $15,560,000 remedy which includes an LNAPL recovery system. Remedial Design is underway. The Quanta Resources property and surrounding properties have been used for a variety of industrial purposes since the late 19th century. A Sanborn Fire Insurance Map from 1898 indicates that the site was partially occupied by vacant and dilapidated brick wrecks of an oil refinery. Available information indicates the earliest recorded actual owner of the property was American Agricultural Chemical Company. In 1931 the property was transferred to Triplex Oil. Triplex Oil used the property for refining of used crank case oil for approximately 40 years. From 1972 until 1980 the facility was operated by several different owners including Pentalic Corporation, Sea Lion Corporation, Ag-met Oil Service, Inc., Hudson Oil Refining Corp., and Portland Holding Corp. In 1980 Quanta Resources acquired the property, and used the property for the re-refining of used crankcase oil and other liquid recycling before filing for bankruptcy on October 6, 1981. The site has been inactive since being abandoned in

QUANTA RESOURCES (Continued) **S108413225**

November 1981. Tanks and several buildings remain on site. A number of potential LNAPL source areas existed on the Quanta Resources Site throughout its operational history, however, the primary suspected source area is the tank farm area located in the northeastern portion of the site. A New York City emergency remedial action removed approximately 640,000 gallons of waste oil from the property. Some of the waste oil contained tetrachloroethene, methyl chloride, 1,1,1-trichloroethane and trichloroethene. Sludge, waste oil, and diesel fuel, all contaminated with PCBs, were also removed from badly deteriorated leaking tanks and drums. As part of NYSDEC's Phase II Investigation, three on-site groundwater monitoring wells were installed. During installation it was discovered that there was a seven foot layer of oil lying above the groundwater table. A Consent Order was signed with numerous PRPs in May 2002 for the undertaking of investigation and remediation activities. An RI/FS was completed. Soil and groundwater contamination has been confirmed. The Site was accepted into BCP. The BCA agreement was executed on 12/2/05 (see C241005). A PRAP was issued in June 2006. A PRAP Public Meeting was held on June 28, 2006 and the public comment period closed on August 3, 2006. The ROD was signed 2/9/07 requiring a $15,560,000 remedy which includes an LNAPL recovery system. See Site Code C241005 for post ROD updates.

Env Problem: The site presents a significant threat due to the soil and groundwater contamination, free product LNAPL plume and close proximity to Newtown Creek. An RI/FS was completed. Soil and groundwater contamination has been confirmed. The primary contaminants of concern include petroleum hydrocarbons, chlorinated solvents,heavy metals and PAHs. Measurable LNAPL was found in 24 of 29 onsite and offsite monitoring wells. ROD signed 2/07. Site has transitioned into the Brownfield program. Site is now tracked as Review Avenue Development II - Site # C241089

Health Problem: Waste oil previously stored on-site has caused widespread contamination of groundwater and soils. Approximately 500,000 gallons of contaminated waste oil remains at the site, floating on the water table. The aquifer of concern is not used as a source for drinking water. Groundwater wells in this area of Queens are used only for commercial and industrial purposes. A fence surrounds the site restricting access and minimizing the potential for direct contact exposures to on-site contaminates. The potential exists for the floating oil plume to migrate into the nearby Newtown Creek which empties into the East River. Further investigation is required.

Dump: True
Structure: True
Lagoon: False
Landfill: False
Pond: False
Disp Start: 1960
Disp Term: 1981
Lat/Long: 40:43:52:0 / 73:56:09:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 11/18/1999 12:00:00 PM
Updated By: INITIAL
Own Op: Owner
Sub Type: E
Owner Name: Not reported
Owner Company: QUANTA RESOURCES

QUANTA RESOURCES (Continued) **S108413225**

Owner Address:	299 S. STATE ST.
Owner Addr2:	Not reported
Owner City,St,Zip:	DOVER, DE 19901
Owner Country:	United States of America
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Quanta Resources
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Quanta Resources
Owner Address:	299 South State Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Dover, DE 19901
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Quanta Resources
Owner Address:	299 South State Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Dover, DE 19901
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	E
Owner Name:	Not reported
Owner Company:	QUANTA RESOURCES
Owner Address:	299 S. STATE STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	DOVER, DE 19901
Owner Country:	United States of America
HW Code:	241005
Waste Type:	HYDROCARBONS HEAVY METALS.
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	TETRACHLOROETHENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	METHYL CHLORIDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	1,1,1-TRICHLOROETHANE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	TRICHLOROETHENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005

QUANTA RESOURCES (Continued) **S108413225**

Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	1,1,1 TCA
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241005
Waste Type:	TOLUENE 2,4-DIISOCYANATE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	NYD980592562
Cross Ref Type Code:	06
Cross Ref Type:	RCRA ID
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	2/24/2005 3:54:00 PM
Updated By:	INITIAL
Crossref ID:	NYD980534499
Cross Ref Type Code:	05
Cross Ref Type:	EPA Site ID
Record Added Date:	11/18/1999 12:00:00 PM
Record Updated:	5/10/2001 4:31:00 PM
Updated By:	REGTRANS
Crossref ID:	c241005
Cross Ref Type Code:	03
Cross Ref Type:	BF Site ID
Record Added Date:	2/3/2006 3:25:00 PM
Record Updated:	2/3/2006 3:25:00 PM
Updated By:	JAAVERSA
Crossref ID:	C241089
Cross Ref Type Code:	03
Cross Ref Type:	BF Site ID
Record Added Date:	2/3/2006 3:26:00 PM
Record Updated:	2/3/2006 3:26:00 PM
Updated By:	JAAVERSA
Crossref ID:	2-1920
Cross Ref Type Code:	19
Cross Ref Type:	MOSF No.
Record Added Date:	6/26/2008 11:24:00 AM
Record Updated:	6/26/2008 11:24:00 AM
Updated By:	JAAVERSA
Crossref ID:	c241005
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2/3/2006 3:25:00 PM
Record Updated:	2/3/2006 3:25:00 PM
Updated By:	JAAVERSA
Crossref ID:	C241089
Cross Ref Type Code:	22
Cross Ref Type:	BCP Site ID
Record Added Date:	2/3/2006 3:26:00 PM
Record Updated:	2/3/2006 3:26:00 PM
Updated By:	JAAVERSA

QUANTA RESOURCES (Continued) **S108413225**

VAPOR REOPENED:
Site Code: 241005
Facility Status: Underway

MOSF:
Facility ID: 2-1920
Program Type: MOSF
Dec Region: 2
Expiration Date: N/A
Tank Status: Inactive
UTMX: 589456.49821999
UTMY: 4510230.3121300

AM530 **QUANTA RESOURCES CORP** **CORRACTS** **1000321850**
NNW **37-80 REVIEW AVE** **RCRA-SQG** **NYD980592562**
1/2-1 **LONG ISLAND CITY, NY 11101** **FINDS**
0.890 mi. **MANIFEST**
4700 ft. **Site 2 of 2 in cluster AM** **MANIFEST**

Relative: Higher

Actual: 37 ft.

CORRACTS:

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 02/07/1995
Action: CA225NF - Stabilization Measures Evaluation, This facility, is not amenable to stabilization activity at the, present time, because it appears to be technically infeasible or, inappropriate
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 02/09/2007
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 08/11/2004
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 09/08/1993
Action: CA075HI - CA Prioritization, Facility or area was assigned a high

QUANTA RESOURCES CORP (Continued) **1000321850**

corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 09/20/1994
Action: CA050 - RFA Completed
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592562
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 09/20/1994
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 03/26/2008
Facility name: REVIEW AVENUE DEVELOPMENT II
Facility address: 37-80 REVIEW AVE
LONG ISLAND CITY, NY 11101
EPA ID: NYD980592562
Mailing address: LEXINGTON AVE ROOM 2020
NEW YORK, NY 10168
Contact: DAVID M KUSHNER
Contact address: LEXINGTON AVE ROOM 2020
NEW YORK, NY 10168
Contact country: US
Contact telephone: (212) 661-0858
Contact email: KUSH@PARADIGMCF.COM
EPA Region: 02
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: 37-80 REVIEW LLC
Owner/operator address: LEXINGTON AVE SUITE 2020
NEW YORK, NY 10168
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/28/2005
Owner/Op end date: Not reported

QUANTA RESOURCES CORP (Continued) **1000321850**

Owner/operator name: QUANTA RESOURCES CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1980
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/25/2008
Facility name: REVIEW AVENUE DEVELOPMENT II
Classification: Small Quantity Generator

Date form received by agency: 10/26/2006
Facility name: REVIEW AVENUE DEVELOPMENT II
Classification: Large Quantity Generator

Date form received by agency: 10/25/2006
Facility name: REVIEW AVENUE DEVELOPMENT II
Classification: Small Quantity Generator

Date form received by agency: 03/01/2006
Facility name: REVIEW AVENUE DEVELOPMENT II
Site name: QUANTA RESOURCES CORP.
Classification: Large Quantity Generator

Date form received by agency: 11/19/1980
Facility name: REVIEW AVENUE DEVELOPMENT II
Site name: QUANTA RESOURCES CORP
Classification: Not a generator, verified

Date form received by agency: 10/24/1980
Facility name: REVIEW AVENUE DEVELOPMENT II
Site name: QUANTA RESOURCES CORP
Classification: Unverified

Date form received by agency: 12/31/1979

QUANTA RESOURCES CORP (Continued) **1000321850**

Facility name: REVIEW AVENUE DEVELOPMENT II
Site name: QUANTA RESOURCES CORP
Classification: Unverified

Hazardous Waste Summary:
Waste code: D004
Waste name: ARSENIC

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D018
Waste name: BENZENE

Waste code: D027
Waste name: 1,4-DICHLOROBENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: B007
Waste name: B007

Corrective Action Summary:
Event date: 09/08/1993
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 09/20/1994
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 09/20/1994
Event: RFA Completed

Event date: 02/07/1995
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time, because it appears to be technically infeasible or inappropriate.

Event date: 08/11/2004
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/07/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

QUANTA RESOURCES CORP (Continued) **1000321850**

Evaluation lead agency: State

Evaluation date: 04/20/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000701401

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD980592562
Country: USA
Mailing Name: QUANTA SITE ADMIN GRP
Mailing Contact: DAVID KUSHNER
Mailing Address: 380 LEXINGTON AVENUE
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10168
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-661-0858

Document ID: PAH0272532
Manifest Status: Not reported
Trans1 State ID: PAD982661381
Trans2 State ID: Not reported
Generator Ship Date: 10/27/2005
Trans1 Recv Date: 10/27/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/28/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592562
Trans1 EPA ID: PAAH0317
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 06859
Units: K - Kilograms (2.2 pounds)
Number of Containers: 037
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00

QUANTA RESOURCES CORP (Continued) **1000321850**

Year:	Not reported
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	ILD981957236
Trans2 State ID:	Not reported
Generator Ship Date:	2008-08-14
Trans1 Recv Date:	2008-08-14
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980592562
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	TXD055135388
Waste Code:	Not reported
Quantity:	40.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CY - Cylinders
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003711745JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	06
Manifest Status:	PAH0270440
Trans1 State ID:	NYD980592562
Trans2 State ID:	Not reported
Generator Ship Date:	PAD085690592
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	PAD982661381
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	1
Number of Containers:	DM

QUANTA RESOURCES CORP (Continued) **1000321850**

Container Type:	187
Handling Method:	K
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	PAH0292286
Trans1 State ID:	NYD980592562
Trans2 State ID:	Not reported
Generator Ship Date:	PAD085690592
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	PAD982661381
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N
TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	16
Number of Containers:	DM
Container Type:	545
Handling Method:	K
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	06
Manifest Status:	PAH0292286
Trans1 State ID:	NYD980592562
Trans2 State ID:	Not reported
Generator Ship Date:	PAD085690592
Trans1 Recv Date:	Not reported
Trans2 Recv Date:	PAD982661381
TSD Site Recv Date:	Not reported
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	N
Trans1 EPA ID:	N
Trans2 EPA ID:	N

QUANTA RESOURCES CORP (Continued) **1000321850**

TSDF ID:	N
Waste Code:	N
Quantity:	Not reported
Units:	9
Number of Containers:	DM
Container Type:	1636
Handling Method:	K
Specific Gravity:	1
Waste Code:	T
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	PAH0272532
Manifest Status:	Not reported
Trans1 State ID:	PAD982661381
Trans2 State ID:	Not reported
Generator Ship Date:	10/27/2005
Trans1 Recv Date:	10/27/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/28/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980592562
Trans1 EPA ID:	PAAH0317
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	06859
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	037
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	Not reported

Document ID:	PAH0292286
Manifest Status:	Not reported
Trans1 State ID:	PAD982661381
Trans2 State ID:	Not reported
Generator Ship Date:	02/10/2006
Trans1 Recv Date:	02/10/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/13/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980592562
Trans1 EPA ID:	PAAH0317
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP

QUANTA RESOURCES CORP (Continued) **1000321850**

Quantity: 01636
Units: K - Kilograms (2.2 pounds)
Number of Containers: 009
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00545
Units: K - Kilograms (2.2 pounds)
Number of Containers: 016
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 06

Document ID: PAH0270440
Manifest Status: Not reported
Trans1 State ID: PAD982661381
Trans2 State ID: Not reported
Generator Ship Date: 01/12/2006
Trans1 Recv Date: 01/12/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/14/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592562
Trans1 EPA ID: PAAH0317
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 00187
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 06

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: PAR000501577
Trans2 State ID: PAD146714878
Generator Ship Date: 2008-10-20
Trans1 Recv Date: 2008-10-20
Trans2 Recv Date: 2008-10-21
TSD Site Recv Date: 2008-10-31
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592562
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: Not reported
Quantity: 687.0
Units: K - Kilograms (2.2 pounds)

QUANTA RESOURCES CORP (Continued) **1000321850**

Number of Containers:	4.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003565485JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	ILD981957236
Trans2 State ID:	Not reported
Generator Ship Date:	2008-08-14
Trans1 Recv Date:	2008-08-14
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980592562
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	TXD055135388
Waste Code:	Not reported
Quantity:	40.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CY - Cylinders
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003711745JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	PAH0292286
Manifest Status:	Not reported

QUANTA RESOURCES CORP (Continued) **1000321850**

Trans1 State ID: PAD982661381
Trans2 State ID: Not reported
Generator Ship Date: 02/10/2006
Trans1 Recv Date: 02/10/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/13/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592562
Trans1 EPA ID: PAAH0317
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 01636
Units: K - Kilograms (2.2 pounds)
Number of Containers: 009
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00545
Units: K - Kilograms (2.2 pounds)
Number of Containers: 016
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 06

Document ID: PAH0270440
Manifest Status: Not reported
Trans1 State ID: PAD982661381
Trans2 State ID: Not reported
Generator Ship Date: 01/12/2006
Trans1 Recv Date: 01/12/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/14/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592562
Trans1 EPA ID: PAAH0317
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: D018 - BENZENE 0.5 MG/L TCLP
Quantity: 00187
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 06

PA MANIFEST:
Manifest Number: PAH270440
Manifest Type: T
Generator Epa Id: NYD980592562
Generator Date: 01/12/06

QUANTA RESOURCES CORP (Continued) **1000321850**

Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	856-616-8166
Page Number:	1
Line Number:	1
Waste Number:	D018
Container Number:	1
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	187
Unit:	Kilograms
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Manifest Number:	PAH292286
Manifest Type:	T
Generator Epa Id:	NYD980592562
Generator Date:	02/10/06
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	856-616-8166
Page Number:	1
Line Number:	1
Waste Number:	D004
Container Number:	9
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	1582
Unit:	Kilograms
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Manifest Number:	PAH292286
Manifest Type:	T
Generator Epa Id:	NYD980592562
Generator Date:	02/10/06
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	PAD085690592

QUANTA RESOURCES CORP (Continued) **1000321850**

TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	856-616-8166
Page Number:	1
Line Number:	1
Waste Number:	D018
Container Number:	9
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	1582
Unit:	Kilograms
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Manifest Number:	PAH292286
Manifest Type:	T
Generator Epa Id:	NYD980592562
Generator Date:	02/10/06
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	856-616-8166
Page Number:	1
Line Number:	1
Waste Number:	D027
Container Number:	9
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	1582
Unit:	Kilograms
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Manifest Number:	PAH292286
Manifest Type:	T
Generator Epa Id:	NYD980592562
Generator Date:	02/10/06
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD Epa Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA

QUANTA RESOURCES CORP (Continued) **1000321850**

Facility Telephone:	856-616-8166
Page Number:	1
Line Number:	1
Waste Number:	D039
Container Number:	9
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	1582
Unit:	Kilograms
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

531
ENE
1/2-1
0.900 mi.
4752 ft.

FORMER W.L.K. CORP. **SHWS** **S109209067**
58-30 57TH STREET **N/A**
MASPETH, NY 11378

Relative:
Higher

Actual:
23 ft.

SHWS:

Program:	HW
Site Code:	371165
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	2
Acres:	2.010
HW Code:	241097
Record Add:	9/29/2006 11:09:00 AM
Record Upd:	8/27/2010 3:47:00 PM
Updated By:	JAQUINN

Site Description: The Former W.L.K. Corp. Site (58-30 57th St.) is located near the intersection of Grand Avenue and 57th Street in Queens County. The site is identified on the Queens Business Borough Tax Map as Block 2610, Lots 412 and 440 and is approximately 2.01 acres in size. The site is bordered on the north by MTA/LIRR rail lines, on the south by Grand Avenue, on the east by 57th Street, and on the west by a property owned by Start 56-19 Grand Holding LLC. The site is mostly paved, with a small area overgrown with vegetation (former railroad spur) present adjacent to the western portion of the building. The northern portion of the site has historically been used by a radiator distribution facility (1930's-1940's), a steel pipe distributor (1950's- early 1970's), corrugated box company (early 1980's), a beer distributing company (mid/late 1980's), and a recycling facility (early 1990's - early 2000's). The southern portion of the site is currently occupied by offices and has been used for several businesses. A lubricating oils company occupied this portion of the site at least from 1936 into the 1970's. Over the years other occupants included an oil company sales office, a milk products company, and an engineering firm. Also, a filling station was located on the site at the corner of Grand Avenue and 57th Street from early 1930's to early 1970's. The site is currently used as a lumber yard with some offices. The surrounding parcels are currently used for a combination of commercial, light industrial, and transportation. The closest residential area is directly across 57th Street. The regional groundwater flow direction is generally to the southwest. Previous investigations in the area, by a third party, revealed high concentrations of chlorinated solvents (specifically TCE, 1,1,1-TCA, and 1,2-DCE) in the groundwater at the northwestern portion of the site. Based upon groundwater samples results, the groundwater

FORMER W.L.K. CORP. (Continued) **S109209067**

	contamination is decreasing southward beneath the adjacent property. The groundwater contamination detected at the site indicates a source area around the loading dock located at the northern end of the site main building and/or an alley (former railroad spur) between the western property fence line and the building. A site characterization was completed and it was determined that the need exists for a full remedial investigation. As of this update, the Department entered into an Order dated 2/11/10. Remedial Investigation / Feasibility Study work plan is currently under review.
Env Problem:	The primary contaminants of concern detected in the Spring/Summer 2007 included Tetrachloroethylene (PCE) and 1,1,1-Trichloroethane (TCA) and their respective breakdown products. Exceedances of standards, criteria, and guidance in the on-site soils include TCE (max. 31 ppm), 1,1,1-TCA (1.1 ppm), PCE (max. 2.6 ppm), and total 1,2-DCE (max. 46.2 ppm). Exceedances of standards, criteria, and guidance in the groundwater include 1,1,1-TCA (max. 16 ppb), TCE (max. 710 ppb), PCE (max. 47 ppb), and total 1,2-DCE (max. 548 ppb). Samples taken off-site, adjacent to the former railroad spur area, revealed exceedances in the groundwater of 1,1,1-TCA (max. 71,000 ppb), TCE (360,000 ppb) and 1,2-DCE (max. 42,000 ppb). The site presents a significant threat to the environment due to the elevated soil and groundwater concentrations.
Health Problem:	Further investigation is needed to assess the nature and extent of site-related contamination and the potential for exposure to site contaminants. The site currently has several buildings and a paved parking lot, therefore, contact with subsurface contamination is unlikely. Exposure to site-related contaminants in drinking water is not expected because the area is served by public water. NYSDOH and NYSDEC will evaluate the need for additional investigations to determine the potential for soil vapor intrusion to occur.
Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	73:54’47" / 40:43’15"
Dell:	False
Record Add:	9/29/2006 11:13:00 AM
Record Upd:	3/20/2008 2:22:00 PM
Updated By:	jxperezm
Own Op:	Owner
Sub Type:	NNN
Owner Name:	SHELDON BAIM
Owner Company:	RUBY REALTY CO.
Owner Address:	58-30 57TH STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	MASPETH, NY 11378
Owner Country:	United States of America
HW Code:	241097
Waste Type:	TETRACHLOROETHYLENE (PCE)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	241097
Waste Type:	TRICHLOROETHENE (TCE)
Waste Quantity:	UNKNOWN

FORMER W.L.K. CORP. (Continued) **S109209067**

Waste Code:	Not reported
HW Code:	241097
Waste Type:	1,1,1 TCA
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

532
NNW
1/2-1
0.972 mi.
5131 ft.

MOBIL OIL BROOKLYN TERMINAL **DEL SHWS** **S105972445**
300 NORTH HENRY STREET **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
12 ft.

DEL SHWS:

Year:	Not reported
Site Code Id:	224013
Site Classification:	D1
Region:	2
Epa Id Number:	Not reported
Site Type - Dump:	No
Site Type - Structure:	No
Site Type - Lagoon:	No
Site Type - Landfill:	No
Site Type - Treat Pond:	No
Site Size (Acres):	15 Acres
Site Size Comment:	Not reported
Period Assoc/HW Start:	Not reported
Period Assoc/HW End:	Not reported
Lat/Long:	0 0' 0" / 0 0' 0"
Lat/Long Decimal:	0.00000 / 0.00000
Lat/Long (dms):	0 0 0 / 0 0 0
Hazardous Waste Code:	Not reported
Hazard Waste Disposed:	Not reported
Quantity:	Not reported
Air Data Available:	No
SW Std Contravention:	No
GW Std Contravention:	No
Soil Type:	Not reported
Sediment Data Available:	No
GW Std Contravention:	No
DW Std Contravention:	No
SW Std Contravention:	No
Air Stand Contraventions:	No
Legal Action Type:	Not reported
State Legal Action:	No
Federal Legal Action:	No
Enforce Status Code:	Not reported
Remedial Act Proposed:	No
Rem Act Under Design:	No
Rem Act In Progress:	No
Rem Act Completed:	No
Remedial Action Type:	Complete
Soil Type:	Not reported

MOBIL OIL BROOKLYN TERMINAL (Continued) **S105972445**

Depth To Groundwater:	Not reported
Owner Name:	Not reported
Owner Address:	300 North Henry Street
Owner City,St,Zip:	Brooklyn
Owner Phone:	Not reported
Owner Contact Name:	Not reported
Owner During Disposal:	Mobil Oil
Owner During Use:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Phone:	Not reported
Operator Contact Name:	Not reported
Oper During Disposal:	Not reported
Site Type:	Dump
HW Disposal Period:	From: 1900 To: 1985
Analytical Data Available:	Not reported
Applicable Std Exceeded:	Not reported
Geotech Info:	Not reported
Depth To Groundwater:	Not reported
Status:	Not reported
Nature Of Action:	Not reported
Env Prob Assessment:	Not reported
Site Description:	Large storage area. Facility was built on an old refinery. Possiblity of groundwater contamination due to poor operation. Newton Creek is adjacent to the site.
Confirmed HW:	Gasoline, Kerosene, Fuel Oil, Others: unknown
Environment Assesment:	Site has been remediated.
Health Assesment:	Not reported
Disposal Start Date:	Not reported
Disposal Term Date:	Not reported
Air Violation:	Not reported
Groundwater Violation:	Not reported
Drink Water Violation:	Not reported
Surface Water Violation:	Not reported
Legal New York State:	Not reported
Legal Federal:	Not reported
Legal State:	Not reported
Remedial Action Active:	Not reported
Remedial Action Done:	Not reported
NPL Status:	Not reported
Count Operator:	Not reported
Count Owner:	Not reported
NYTM X:	0
NYTM Y:	0
Co Name:	Not reported
Co Addr:	Not reported
Operator Addr:	Not reported
Operator Addr 2:	Not reported
Operator Addr 3:	Not reported
Operator Addr 4:	Not reported
HWDP From:	Not reported
From To:	Not reported
Assessment of Health:	Not reported
Description:	Not reported
Env Assessment:	Not reported
HW Disposed/Quantity:	Not reported

MOBIL OIL BROOKLYN TERMINAL (Continued) **S105972445**

Assess/Env Prog: Not reported
Assess/Health Prob: Not reported
Site Description: Not reported

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	1000222266	MCKESSON CHEMICAL CO	5258 VARICK ST	11237	FINDS,RCRA-NLR
MASPETH	1001224099	TDI ATT - PETER VELAZQUEZ	40-29 MASPETH AVE	11378	FINDS,MANIFEST,RCRA-NLR
BROOKLYN	1007208397	CONSOLIDATED EDISON	MH38210-KINGS HWY & W 7TH ST		RCRA-NLR,MANIFEST
BROOKLYN	1007208558	CONSOLIDATED EDISON	V4740-MASPETH & GARDNER		RCRA-NLR,MANIFEST
BROOKLYN	1007208596	CONSOLIDATED EDISON	V3725-VARICK AVE N/O JOHNSON		RCRA-NLR,MANIFEST
BROOKLYN	1009233319	NYNEX	MASPETH AVE	11211	MANIFEST
BROOKLYN	1009234540	NYNEX	KINGS HIWY & AVE H		MANIFEST
CORONA	1009235574	NYCDEP	340 STATE ST BETWEEN BOND/HOYT	11378	MANIFEST
NORTH CASTLE	1010327258	CONED	OLD RT 22	11101	RCRA-NLR,MANIFEST
BRONX	1010488291	NYSDOT BIN 1066220	GRANT HIGHWAY OVER CROSS BRONX	11101	FINDS,MANIFEST
BROOKLYN	1014396312	CON EDISON - MANHOLE 43904	41 VARICK AVE & HARRISON PL	11237	RCRA-LQG
BROOKLYN	1014396315	CON EDISON - MANHOLE 56833	18 VARICK AVE & GRATTAN ST	11237	RCRA-LQG
BROOKLYN	S102142527	E 29TH ST & KINGS HWY	E 29TH ST & KINGS HWY		SPILLS,HIST SPILLS
BROOKLYN	S103938400	BOX 38486	KINGS HIGHWAY/ROCKAWAY PK		SPILLS,HIST SPILLS
BROOKLYN	S106737045	BETW/AVE X &	KINGS HIGHWAY AVE U		SPILLS
BROOKLYN	S107407580	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		SPILLS
BROOKLYN	S109064521	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE KINGS		MANIFEST
	S109207895	205842; KINGS HWY	KINGS HWY		SPILLS
BROOKLYN	S111011715	ROADWAY	KINGS HIGHWAY AND OCEAN PARKWA		SPILLS
BROOKLYN	S111011885	TO ROADWAY	KINGS HWY AND EAST 16TH ST		SPILLS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/09/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 91

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 11/24/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 23

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/26/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/06/2011
Date Made Active in Reports: 06/24/2011
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 26
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 25
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/16/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 28
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

TANKS: Storage Tank Faciliy Listing
This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/15/2011
Date Made Active in Reports: 04/25/2011
Number of Days to Update: 10
Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 04/25/2011
Number of Days to Update: 20
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 04/25/2011
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/01/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/18/2011
Date Data Arrived at EDR: 05/26/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 19

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/16/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 28

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011
Date Data Arrived at EDR: 06/01/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 13

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 05/04/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 41

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/11/2011
Number of Days to Update: 50

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/29/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 03/29/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/06/2011
Date Made Active in Reports: 06/24/2011
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Semi-Annually

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 46
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/07/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 41
Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 07/13/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/25/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/15/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/02/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/08/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/12/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/14/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 04/06/2011
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/15/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 05/12/2011
Date Made Active in Reports: 05/24/2011
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/12/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 06/28/2011
Date Data Arrived at EDR: 06/29/2011
Date Made Active in Reports: 07/05/2011
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/20/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 04/18/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/24/2011
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 11/02/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 45

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 10/13/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/04/2011
Number of Days to Update: 36

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 06/06/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/31/2008
Date Data Arrived at EDR: 11/25/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/05/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 04/12/2011
Date Data Arrived at EDR: 06/06/2011
Date Made Active in Reports: 06/24/2011
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 04/15/2011
Date Made Active in Reports: 05/24/2011
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: N/A

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 03/18/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 34

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/23/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 03/18/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 34

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/23/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 06/17/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 19

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 06/17/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 19

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/13/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Annually

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/13/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 05/25/2011
Date Data Arrived at EDR: 05/27/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 40

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 05/25/2011
Date Data Arrived at EDR: 05/27/2011
Date Made Active in Reports: 07/06/2011
Number of Days to Update: 40

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/26/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/24/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 05/13/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 49

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/20/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FED EX
300 MASPETH AVE
BROOKLYN, NY 11211

TARGET PROPERTY COORDINATES

Latitude (North):	40.71710 - 40° 43' 1.6''
Longitude (West):	73.9321 - 73° 55' 55.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	590198.1
UTM Y (Meters):	4507690.0
Elevation:	10 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

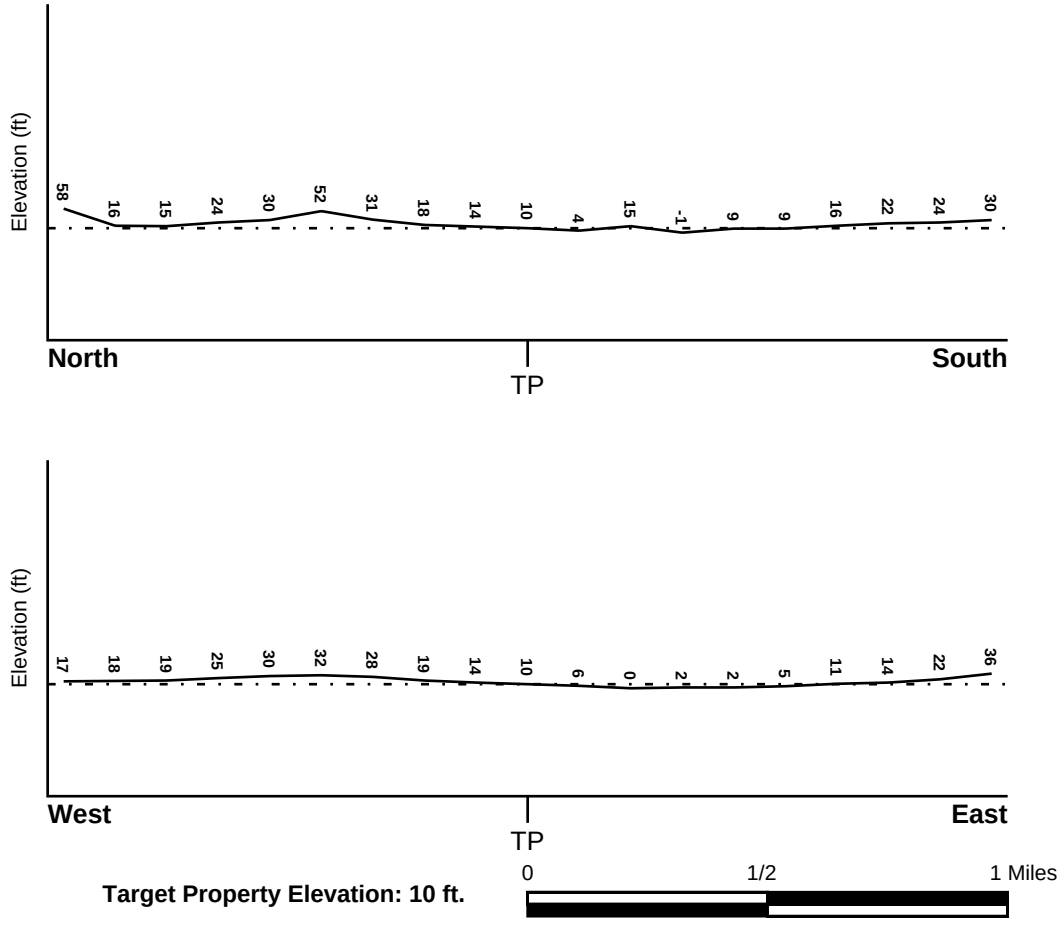
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 360497 - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BROOKLYN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile NE
Site Name:	Phelps Dodge Refining Corp
Site EPA ID Number:	NYD039138789
Groundwater Flow Direction:	DEPENDENT ON WELL PUMPING RATES.
Measured Depth to Water:	not available.
Hydraulic Connection:	Salt water intrusion may be present at the site. Information about the hydraulic connection between aquifers underlying the site is not available. The depth to bedrock is approximately 60 feet.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2117927	0 - 1/8 Mile NW
A2	USGS2117992	1/8 - 1/4 Mile NE
A3	USGS2117977	1/8 - 1/4 Mile ENE
4	USGS2118090	1/8 - 1/4 Mile West
5	USGS2118289	1/2 - 1 Mile SSW
6	USGS2117844	1/2 - 1 Mile ENE
7	USGS2118022	1/2 - 1 Mile WSW
8	USGS2117728	1/2 - 1 Mile NW
B9	USGS2118259	1/2 - 1 Mile SSE
10	USGS2117495	1/2 - 1 Mile NNW
11	USGS2117509	1/2 - 1 Mile North
12	USGS2118137	1/2 - 1 Mile ESE
13	USGS2118400	1/2 - 1 Mile South
C14	USGS2118311	1/2 - 1 Mile SW
15	USGS2118436	1/2 - 1 Mile SSE
B16	USGS2118236	1/2 - 1 Mile SSE
C17	USGS2118312	1/2 - 1 Mile SW
18	USGS2117568	1/2 - 1 Mile North
D19	USGS2118385	1/2 - 1 Mile SSW
E20	USGS2117797	1/2 - 1 Mile NW
E21	USGS2117798	1/2 - 1 Mile NW
D22	USGS2118386	1/2 - 1 Mile SSW
F23	USGS2118426	1/2 - 1 Mile SSW
24	USGS2118387	1/2 - 1 Mile SSW
F25	USGS2118414	1/2 - 1 Mile SSW
26	USGS2117796	1/2 - 1 Mile NE
27	USGS2118444	1/2 - 1 Mile SW
28	USGS2117978	1/2 - 1 Mile West
29	USGS2117697	1/2 - 1 Mile NE
30	USGS2117444	1/2 - 1 Mile North
31	USGS2118355	1/2 - 1 Mile SSE
32	USGS2118249	1/2 - 1 Mile SW
G33	USGS2118415	1/2 - 1 Mile SW
34	USGS2118491	1/2 - 1 Mile South
35	USGS2117719	1/2 - 1 Mile ENE
36	USGS2118072	1/2 - 1 Mile West
G37	USGS2118395	1/2 - 1 Mile SW
38	USGS2117350	1/2 - 1 Mile North
39	USGS2117351	1/2 - 1 Mile North
40	USGS2117486	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3124384.6s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Fed Ex
ADDRESS:	300 Maspeth Ave Brooklyn NY 11211
LAT/LONG:	40.7171 / 73.9321
CLIENT:	AECOM
CONTACT:	Joshua Millard
INQUIRY #:	3124384.6s
DATE:	July 15, 2011 2:52 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NW
0 - 1/8 Mile
Higher | **FED USGS** | **USGS2117927**

Agency cd:	USGS	Site no:	404304073560001
Site name:	K 569. 1		
Latitude:	404304	EDR Site id:	USGS2117927
Longitude:	0735600	Dec lat:	40.71788023
Dec lon:	-73.93291527	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1117	Map scale:	Not Reported
Altitude:	15.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	190.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A2
NE
1/8 - 1/4 Mile
Higher | **FED USGS** | **USGS2117992**

Agency cd:	USGS	Site no:	404308073554701
Site name:	K 1977. 1		
Latitude:	404308	EDR Site id:	USGS2117992
Longitude:	0735547	Dec lat:	40.71899132
Dec lon:	-73.92930406	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1127	Map scale:	Not Reported

Altitude:	15.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	163.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A3
ENE **FED USGS** **USGS2117977**
1/8 - 1/4 Mile
Higher

Agency cd:	USGS	Site no:	404307073554501
Site name:	K 675. 1		
Latitude:	404307	EDR Site id:	USGS2117977
Longitude:	0735545	Dec lat:	40.71871355
Dec lon:	-73.92874848	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1127	Map scale:	Not Reported
Altitude:	13.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	222.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

4
West **FED USGS** **USGS2118090**
1/8 - 1/4 Mile
Higher

Agency cd:	USGS	Site no:	404300073561301
Site name:	K 677. 1		
Latitude:	404300	EDR Site id:	USGS2118090
Longitude:	0735613	Dec lat:	40.71676913
Dec lon:	-73.93652648	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1198	Map scale:	Not Reported
Altitude:	19.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	215.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
SSW **FED USGS** **USGS2118289**
1/2 - 1 Mile
Higher

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	404237073561201
Site name:	K 889. 1		
Latitude:	404237	EDR Site id:	USGS2118289
Longitude:	0735610	Dec lat:	40.71038037
Dec lon:	-73.93569312	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1291	Map scale:	Not Reported
Altitude:	21.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	74.	Hole depth:	74.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1945-06-04	Ground water data end date:	1985-10-01
Ground water data count:	265		

Ground-water levels, Number of Measurements: 265

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1985-10-01		3.53	1985-05-21		4.48
1984-12-18		4.95	1984-10-05		5.16
1984-06-27		5.47	1984-03-15		5.13
1984-01-05		5.76	1983-09-29		4.96
1983-06-29		4.59	1983-03-25		3.96
1982-12-21		3.69	1982-10-06		3.86
1982-06-30		3.96	1982-04-02		4.19
1981-12-29		4.01	1981-09-23		4.10
1981-06-24		4.28	1981-03-18		5.36
1980-12-30		3.96	1980-09-23		5.06
1980-06-24		5.14	1980-03-13		4.02
1979-12-18		4.92	1979-09-17		4.57
1979-06-28		4.07	1979-03-26		5.46
1978-12-22		5.11	1978-10-02		5.94
1978-06-23		3.93	1978-04-04		4.06
1978-01-03		4.29	1977-09-22		3.81
1977-07-07		3.33	1977-03-29		2.60
1976-12-22		2.81	1976-09-23		3.25
1976-07-09		3.97	1976-06-28		3.21
1976-03-23		3.02	1975-12-16		3.17
1975-10-07		3.10	1975-06-30		2.80
1975-03-26		2.67	1974-12-19		1.99

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1974-09-04		2.44
1974-03-19		2.36
1973-09-24		1.86
1973-04-03		0.97
1972-10-02		1.57
1972-03-28		0.27
1971-09-27		0.57
1970-11-02		1.02
1969-11-12		0.49
1969-04-23		-0.34
1968-04-22		0.46
1967-03-28		-0.64
1966-05-03		-0.64
1965-09-14		-2.21
1964-04-27		-0.19
1963-04-29		-0.13
1962-04-26		-0.54
1961-10-02		-2.45
1960-12-27		-3.44
1960-07-05		-4.23
1960-01-14		-4.97
1959-07-17		-4.44
1958-01-10		-4.06
1957-06-27		-3.61
1956-12-18		-3.19
1956-10-25		-3.01
1956-08-02		-3.00
1956-06-05		-3.05
1956-03-05		-3.53
1955-12-22		-3.74
1955-10-07		-4.61
1955-07-27		-4.72
1955-04-26		-4.91
1955-02-25		-5.33
1954-12-27		-5.61
1954-05-27		-6.72
1954-03-30		-6.87
1954-01-28		-7.19
1953-12-02		-7.25
1953-08-03		-7.45
1953-05-25		-7.91
1953-03-24		-8.82
1953-02-05		-9.37
1952-12-05		-10.54
1952-08-25		-12.22
1952-06-24		-13.11
1952-04-29		-14.33
1952-02-20		-15.88
1951-12-20		-16.98
1951-11-02		-17.86
1951-08-28		-18.53
1951-06-28		-19.39
1951-05-02		-20.22
1951-02-26		-21.64
1950-12-20		-24.01
1974-06-26		2.58
1974-01-09		2.26
1973-07-02		2.22
1972-12-27		1.70
1972-07-10		1.94
1972-01-13		0.44
1971-03-08		1.08
1970-03-13		1.52
1969-09-05		0.24
1968-11-06		-3.34
1967-10-20		-0.01
1966-10-24		-2.53
1965-10-28		-1.85
1964-10-30		-1.79
1963-11-05		-1.31
1962-12-04		-0.88
1961-12-28		-1.92
1961-03-28		-3.06
1960-09-28		-4.38
1960-03-31		-4.56
1959-10-07		-5.06
1959-03-18		-4.96
1957-09-24		-4.44
1957-03-27		-3.58
1956-11-29		-3.09
1956-10-02		-3.06
1956-07-11		-2.95
1956-05-15		-3.26
1956-02-03		-3.69
1955-11-15		-4.04
1955-08-25		-4.74
1955-06-23		-4.43
1955-03-29		-5.07
1955-01-25		-5.34
1954-06-29		-6.25
1954-04-28		-6.79
1954-02-25		-7.02
1953-12-23		-7.15
1953-10-02		-7.61
1953-06-23		-7.47
1953-04-27		-8.26
1953-02-27		-9.10
1952-12-24		-10.14
1952-11-03		-11.13
1952-07-25		-12.62
1952-05-27		-13.84
1952-03-24		-15.09
1952-01-29		-16.33
1951-11-28		-17.37
1951-09-26		-18.29
1951-07-26		-18.97
1951-05-29		-19.79
1951-03-27		-20.97
1951-01-30		-22.36
1950-11-28		-24.60

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1950-10-31		-24.76
1950-08-29		-24.63
1950-06-29		-24.52
1950-04-27		-24.97
1950-03-01		-25.44
1949-12-28		-25.78
1949-10-31		-25.53
1949-08-31		-25.62
1949-06-30		-25.89
1949-04-28		-26.14
1949-02-23		-27.08
1948-12-28		-27.87
1948-11-04		-28.60
1948-08-30		-29.46
1948-06-30		-30.77
1948-04-27		-32.12
1948-03-02		-33.43
1948-01-07		-35.55
1947-11-26		-36.76
1947-10-31		-37.15
1947-10-07		-37.17
1947-09-16		-37.00
1947-08-13		-36.15
1947-07-23		-35.29
1947-07-07		-35.95
1947-07-01		-36.32
1947-06-24		-37.12
1947-06-13		-37.06
1947-05-29		-36.78
1947-05-17		-36.47
1947-05-10		-35.93
1947-04-26		-35.43
1947-04-18		-35.09
1947-03-22		-33.32
1947-03-01		-35.65
1947-02-15		-36.93
1947-02-01		-38.31
1947-01-18		-37.73
1946-10-19		-31.90
1946-10-05		-20.51
1946-09-16		-37.75
1946-08-19		-38.17
1946-07-08		-37.25
1946-05-27		-36.17
1946-05-13		-35.55
1946-04-29		-35.07
1946-04-15		-35.44
1946-04-01		-35.67
1946-03-18		-35.80
1946-03-04		-35.75
1946-02-18		-35.67
1946-01-08		-35.07
1945-11-06		-34.30
1945-09-12		-32.54
1945-07-23		-30.27
1950-09-27		-24.78
1950-07-27		-24.48
1950-06-05		-24.63
1950-03-29		-24.90
1950-01-26		-25.69
1949-11-28		-25.76
1949-09-28		-25.59
1949-07-28		-25.72
1949-06-01		-26.02
1949-04-05		-26.39
1949-01-27		-27.47
1948-12-14		-28.03
1948-10-06		-28.94
1948-07-26		-30.22
1948-06-02		-31.35
1948-03-26		-32.84
1948-02-03		-34.37
1947-12-17		-35.93
1947-11-20		-36.87
1947-10-14		-37.22
1947-09-30		-37.13
1947-08-27		-36.56
1947-07-30		-35.58
1947-07-16		-35.21
1947-07-02		-36.46
1947-06-30		-36.69
1947-06-20		-37.16
1947-06-06		-36.95
1947-05-23		-36.63
1947-05-16		-36.41
1947-05-03		-35.89
1947-04-19		-35.17
1947-03-29		-33.64
1947-03-08		-34.08
1947-02-22		-36.06
1947-02-08		-37.58
1947-01-25		-39.01
1947-01-10		-37.61
1946-10-12		-27.83
1946-09-23		-36.25
1946-08-30		-38.35
1946-07-30		-37.69
1946-06-10		-36.63
1946-05-20		-35.97
1946-05-06		-35.32
1946-04-22		-35.31
1946-04-08		-35.56
1946-03-25		-35.66
1946-03-11		-35.79
1946-02-25		-35.66
1946-02-11		-35.61
1945-12-03		-34.78
1945-09-28		-33.23
1945-08-08		-30.12
1945-07-03		-30.41

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1945-06-04		-30.46			

6
ENE **FED USGS** **USGS2117844**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404313073552601
Site name:	Q 436. 1		
Latitude:	404313	EDR Site id:	USGS2117844
Longitude:	0735526	Dec lat:	40.72038019
Dec lon:	-73.92347056	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1156	Map scale:	Not Reported
Altitude:	8.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	217.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

7
WSW **FED USGS** **USGS2118022**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404253073563501
Site name:	K 678. 1		
Latitude:	404253	EDR Site id:	USGS2118022
Longitude:	0735635	Dec lat:	40.71482472
Dec lon:	-73.94263777	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1169	Map scale:	Not Reported
Altitude:	39.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	221.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

8
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2117728**

Agency cd:	USGS	Site no:	404321073562801
Site name:	K 679. 1		
Latitude:	404321	EDR Site id:	USGS2117728
Longitude:	0735628	Dec lat:	40.72260234
Dec lon:	-73.94069327	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1175	Map scale:	Not Reported
Altitude:	35.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	218.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B9
SSE **FED USGS** **USGS2118259**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404234073553601
Site name:	K 1990. 1		
Latitude:	404234	EDR Site id:	USGS2118259
Longitude:	0735536	Dec lat:	40.70954707
Dec lon:	-73.9262484	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1242	Map scale:	Not Reported
Altitude:	15.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	70.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

10
NNW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117495**

Agency cd:	USGS	Site no:	404333073560801
Site name:	K 689. 1		
Latitude:	404333	EDR Site id:	USGS2117495
Longitude:	0735608	Dec lat:	40.72593562
Dec lon:	-73.93513756	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1103	Map scale:	Not Reported
Altitude:	31.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	160.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

11
North
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117509**

Agency cd:	USGS	Site no:	404334073555201
Site name:	K 1560. 1		
Latitude:	404334	EDR Site id:	USGS2117509
Longitude:	0735552	Dec lat:	40.7262134
Dec lon:	-73.93069299	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1123	Map scale:	Not Reported

Altitude:	30.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	101.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

12
ESE **FED USGS** **USGS2118137**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404243073551901
Site name:	Q 1947. 1		
Latitude:	404243	EDR Site id:	USGS2118137
Longitude:	0735519	Dec lat:	40.71204703
Dec lon:	-73.92152605	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1260	Map scale:	Not Reported
Altitude:	15.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	83	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	1970-08-12
Water quality data end date:	1970-08-12	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

13
South
1/2 - 1 Mile
Higher

FED USGS **USGS2118400**

Agency cd:	USGS	Site no:	404227073560001
Site name:	K 3111. 1		
Latitude:	404227	EDR Site id:	USGS2118400
Longitude:	0735600	Dec lat:	40.70760265
Dec lon:	-73.93291526	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1213	Map scale:	Not Reported
Altitude:	18.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	Not Reported	Hole depth:	95.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1967-11-15
Water quality data end date:	1967-11-15	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

C14
SW
1/2 - 1 Mile
Higher

FED USGS **USGS2118311**

Agency cd:	USGS	Site no:	404239073563201
Site name:	K 1283. 1		
Latitude:	404239	EDR Site id:	USGS2118311
Longitude:	0735632	Dec lat:	40.71093591
Dec lon:	-73.94180441	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1271	Map scale:	Not Reported
Altitude:	45.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	240.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

15
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2118436**

Agency cd:	USGS	Site no:	404230073553701
Site name:	K 2598. 1		
Latitude:	404230	EDR Site id:	USGS2118436
Longitude:	0735537	Dec lat:	40.70843598
Dec lon:	-73.92652619	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1232	Map scale:	Not Reported
Altitude:	7.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-03-31
Water quality data end date:	1996-04-15	Water quality data count:	4
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

B16
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2118236**

Agency cd:	USGS	Site no:	404232073553201
Site name:	K 1346. 1		
Latitude:	404232	EDR Site id:	USGS2118236
Longitude:	0735532	Dec lat:	40.70899153
Dec lon:	-73.92513726	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1242	Map scale:	Not Reported
Altitude:	39.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	168.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C17
SW
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2118312**

Agency cd:	USGS	Site no:	404239073563301
Site name:	K 724. 1		
Latitude:	404239	EDR Site id:	USGS2118312
Longitude:	0735633	Dec lat:	40.71093591
Dec lon:	-73.94208219	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1271	Map scale:	Not Reported
Altitude:	48.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	137.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

18
North
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117568**

Agency cd:	USGS	Site no:	404338073555501
Site name:	K 1370. 1		
Latitude:	404338	EDR Site id:	USGS2117568
Longitude:	0735555	Dec lat:	40.72732449
Dec lon:	-73.93152635	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1113	Map scale:	Not Reported

Altitude:	27.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	72.	Hole depth:	77.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

D19
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2118385**

Agency cd:	USGS	Site no:	404225073560701
Site name:	K 893. 1		
Latitude:	404225	EDR Site id:	USGS2118385
Longitude:	0735607	Dec lat:	40.7070471
Dec lon:	-73.93485976	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1203	Map scale:	Not Reported
Altitude:	20.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	118.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

E20
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2117797**

Agency cd:	USGS	Site no:	404325073563508
Site name:	K 3260. 1		
Latitude:	404325	EDR Site id:	USGS2117797
Longitude:	0735635	Dec lat:	40.72371343
Dec lon:	-73.94263778	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1164	Map scale:	Not Reported
Altitude:	28.7		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	23.	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-02-12
Water quality data end date:	1983-07-12	Water quality data count:	2
Ground water data begin date:	1980-04-11	Ground water data end date:	2000-10-24
Ground water data count:	80		

Ground-water levels, Number of Measurements: 80

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-10-24		12.89	2000-09-27		12.26
2000-08-24		12.89	2000-07-27		13.11
2000-06-28		13.58	2000-05-23		13.47
2000-04-27		13.00	2000-03-22		12.58
2000-02-29		12.01	1999-12-13		12.83
1999-11-23		12.54	1999-10-19		12.73
1999-09-23		12.52	1999-08-17		11.99
1999-07-20		12.49	1999-06-24		12.86
1999-05-18		13.16	1999-04-28		13.32
1999-03-23		12.97	1999-03-02		12.05

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1999-01-27		11.50	1998-11-24		11.33
1998-09-29		11.65	1998-09-01		12.13
1998-07-28		12.61	1998-05-28		13.04
1998-04-29		12.48	1998-03-24		12.86
1998-02-26		11.94	1998-01-26		10.65
1997-12-29		11.32	1997-11-26		10.69
1997-10-29		10.78	1997-09-29		11.75
1997-03-24		11.56	1996-07-12		10.24
1995-09-29		10.00	1995-06-22		9.94
1995-01-03		10.61	1994-06-28		10.89
1993-11-22		9.93	1993-08-25		10.16
1993-07-22		10.33	1993-06-22		10.58
1993-05-24		10.71	1993-04-28		11.06
1993-03-26		10.29	1993-01-19		9.89
1992-12-28		9.63	1992-11-20		9.96
1992-10-27		9.50	1992-09-18		9.70
1992-08-24		10.04	1992-07-16		11.74
1992-06-23		9.74	1992-06-15		8.22
1985-10-01		10.36	1985-05-21		10.43
1984-12-28		11.59	1984-10-05		11.26
1984-06-27		11.69	1984-03-15		11.43
1984-01-05		11.29	1983-09-29		10.77
1983-06-29		10.29	1983-03-25		10.29
1982-12-20		10.10	1982-10-06		10.29
1982-07-01		10.38	1982-03-24		10.04
1981-12-30		8.94	1981-09-22		9.59
1981-06-24		9.84	1981-03-18		9.89
1981-02-12		9.83	1980-12-22		10.02
1980-09-23		10.89	1980-06-24		11.27
1980-06-10		11.36	1980-04-11		10.86

E21
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2117798**

Agency cd:	USGS	Site no:	404325073563509
Site name:	K 3260. 2		
Latitude:	404325	EDR Site id:	USGS2117798
Longitude:	0735635	Dec lat:	40.72371343
Dec lon:	-73.94263778	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	20010716
Date inventoried:	20010716	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	GLACIAL AQUIFER,UPPER		
Well depth:	42.6	Hole depth:	45.0
Source of depth data:	owner		
Project number:	443600240		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2001-08-15
Water quality data end date:	2003-08-01	Water quality data count:	2
Ground water data begin date:	2001-07-24	Ground water data end date:	2005-02-15
Ground water data count:	39		

Ground-water levels, Number of Measurements: 39

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-02-15		10.95	2005-01-21		11.05
2004-12-15		10.95	2004-11-23		10.98
2004-10-21		11.29	2004-09-21		11.21
2004-08-25		11.08	2004-07-19		10.93
2004-06-16		10.97	2004-05-25		11.13
2004-04-29		11.05	2004-02-25		10.87
2003-12-18		11.04	2003-11-25		10.91
2003-10-29		11.09	2003-09-24		11.24
2003-08-25		11.57	2003-07-21		12.54
2003-06-25		11.55	2003-05-19		11.08
2003-04-28		10.70	2003-01-28		10.66
2002-12-27		10.48	2002-11-26		10.28
2002-10-21		10.03	2002-09-25		9.74
2002-08-27		9.53	2002-07-22		9.75
2002-06-18		9.75	2002-05-29		9.71
2002-04-24		9.50	2002-02-27		9.70
2002-01-28		9.71	2001-12-28		9.87
2001-11-15		10.10	2001-10-24		10.26
2001-09-26		10.31	2001-08-29		10.43
2001-07-24		10.66			

D22
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2118386**

Agency cd:	USGS	Site no:	404225073561001
Site name:	K 955. 1		
Latitude:	404225	EDR Site id:	USGS2118386
Longitude:	0735610	Dec lat:	40.7070471
Dec lon:	-73.93569312	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1293	Map scale:	Not Reported

Altitude:	18.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	72.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

F23
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2118426**

Agency cd:	USGS	Site no:	404229073562301
Site name:	K 1490. 1		
Latitude:	404229	EDR Site id:	USGS2118426
Longitude:	0735623	Dec lat:	40.70815819
Dec lon:	-73.93930433	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1282	Map scale:	Not Reported
Altitude:	35.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	135.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

24
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2118387**

Agency cd:	USGS	Site no:	404225073561301
Site name:	K 1130. 1		
Latitude:	404225	EDR Site id:	USGS2118387
Longitude:	0735613	Dec lat:	40.7070471
Dec lon:	-73.93652647	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1293	Map scale:	Not Reported
Altitude:	18.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	89.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

F25
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2118414**

Agency cd:	USGS	Site no:	404228073562301
Site name:	K 37. 1		
Latitude:	404228	EDR Site id:	USGS2118414
Longitude:	0735623	Dec lat:	40.70788041
Dec lon:	-73.93930433	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1282	Map scale:	Not Reported
Altitude:	25.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	130.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

26
NE
1/2 - 1 Mile
Higher

FED USGS **USGS2117796**

Agency cd:	USGS	Site no:	404325073551401
Site name:	Q 438. 1		
Latitude:	404325	EDR Site id:	USGS2117796
Longitude:	0735514	Dec lat:	40.72371347
Dec lon:	-73.92013713	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1164	Map scale:	Not Reported
Altitude:	4.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	208.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

27
SW
1/2 - 1 Mile
Higher

FED USGS **USGS2118444**

Agency cd:	USGS	Site no:	404231073563301
Site name:	K 426. 1		
Latitude:	404231	EDR Site id:	USGS2118444
Longitude:	0735633	Dec lat:	40.70871373
Dec lon:	-73.94208219	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1272	Map scale:	Not Reported
Altitude:	38.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	140.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

28
West
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117978**

Agency cd:	USGS	Site no:	404307073565101
Site name:	K 690. 1		
Latitude:	404307	EDR Site id:	USGS2117978
Longitude:	0735651	Dec lat:	40.71871352
Dec lon:	-73.94708234	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1147	Map scale:	Not Reported
Altitude:	10.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	194.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

29
NE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117697**

Agency cd:	USGS	Site no:	404332073551701
Site name:	Q 1918. 1		
Latitude:	404332	EDR Site id:	USGS2117697
Longitude:	0735517	Dec lat:	40.72565787
Dec lon:	-73.92097049	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1163	Map scale:	Not Reported

Altitude:	15.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	82.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

30
North
1/2 - 1 Mile
Higher

FED USGS **USGS2117444**

Agency cd:	USGS	Site no:	404345073555701
Site name:	Q 393. 1		
Latitude:	404345	EDR Site id:	USGS2117444
Longitude:	0735557	Dec lat:	40.72926889
Dec lon:	-73.93208192	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1112	Map scale:	Not Reported
Altitude:	17.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	170.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

31
SSE **FED USGS** **USGS2118355**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404223073552701
Site name:	K 2568. 1		
Latitude:	404223	EDR Site id:	USGS2118355
Longitude:	0735527	Dec lat:	40.70649158
Dec lon:	-73.92374833	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1253	Map scale:	Not Reported
Altitude:	20.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	100.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

32
SW **FED USGS** **USGS2118249**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	404233073564401
Site name:	K 715. 1		
Latitude:	404233	EDR Site id:	USGS2118249
Longitude:	0735644	Dec lat:	40.70926927
Dec lon:	-73.94513783	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1252	Map scale:	Not Reported
Altitude:	36.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	120.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

G33
SW
1/2 - 1 Mile
Higher

FED USGS **USGS2118415**

Agency cd:	USGS	Site no:	404228073563901
Site name:	K 2533. 1		
Latitude:	404228	EDR Site id:	USGS2118415
Longitude:	0735639	Dec lat:	40.70788041
Dec lon:	-73.9437489	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1262	Map scale:	Not Reported
Altitude:	30.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	92.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

34
South
1/2 - 1 Mile
Higher

FED USGS **USGS2118491**

Agency cd:	USGS	Site no:	404215073555501
Site name:	K 894. 1		
Latitude:	404215	EDR Site id:	USGS2118491
Longitude:	0735555	Dec lat:	40.70426939
Dec lon:	-73.93152633	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KF1214	Map scale:	Not Reported
Altitude:	30.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	282.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

35
ENE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2117719**

Agency cd:	USGS	Site no:	404320073550101
Site name:	Q 437. 1		
Latitude:	404320	EDR Site id:	USGS2117719
Longitude:	0735501	Dec lat:	40.72232461
Dec lon:	-73.91652591	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1185	Map scale:	Not Reported
Altitude:	5.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	260.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

36
West
1/2 - 1 Mile
Higher | **FED USGS** | **USGS2118072**

Agency cd:	USGS	Site no:	404258073570001
Site name:	K 691. 1		
Latitude:	404258	EDR Site id:	USGS2118072
Longitude:	0735700	Dec lat:	40.71621357
Dec lon:	-73.94958241	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1138	Map scale:	Not Reported

Altitude:	18.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	195.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

G37
SW
1/2 - 1 Mile
Higher

FED USGS **USGS2118395**

Agency cd:	USGS	Site no:	404226073564101
Site name:	K 637. 1		
Latitude:	404226	EDR Site id:	USGS2118395
Longitude:	0735641	Dec lat:	40.70732486
Dec lon:	-73.94430447	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	047
Country:	US	Land net:	Not Reported
Location map:	KE1263	Map scale:	Not Reported
Altitude:	35.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	212.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

38
North
1/2 - 1 Mile
Higher

FED USGS **USGS2117350**

Agency cd:	USGS	Site no:	404351073555801
Site name:	Q 603. 1		
Latitude:	404351	EDR Site id:	USGS2117350
Longitude:	0735558	Dec lat:	40.73093553
Dec lon:	-73.93235971	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1111	Map scale:	Not Reported
Altitude:	69.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	202.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

39
North
1/2 - 1 Mile
Higher

FED USGS **USGS2117351**

Agency cd:	USGS	Site no:	404351073560501
Site name:	Q 390. 1		
Latitude:	404351	EDR Site id:	USGS2117351
Longitude:	0735605	Dec lat:	40.73093552
Dec lon:	-73.93430421	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1101	Map scale:	Not Reported
Altitude:	23.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	211.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

40
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS2117486**

Agency cd:	USGS	Site no:	404348073553101
Site name:	Q 1085. 1		
Latitude:	404348	EDR Site id:	USGS2117486
Longitude:	0735531	Dec lat:	40.73010222
Dec lon:	-73.92485949	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	081
Country:	US	Land net:	Not Reported
Location map:	QF1141	Map scale:	Not Reported
Altitude:	6.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Northern Long Island. New York. Area = 915 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	170.
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Inquiry Number: 3124384.2
July 15, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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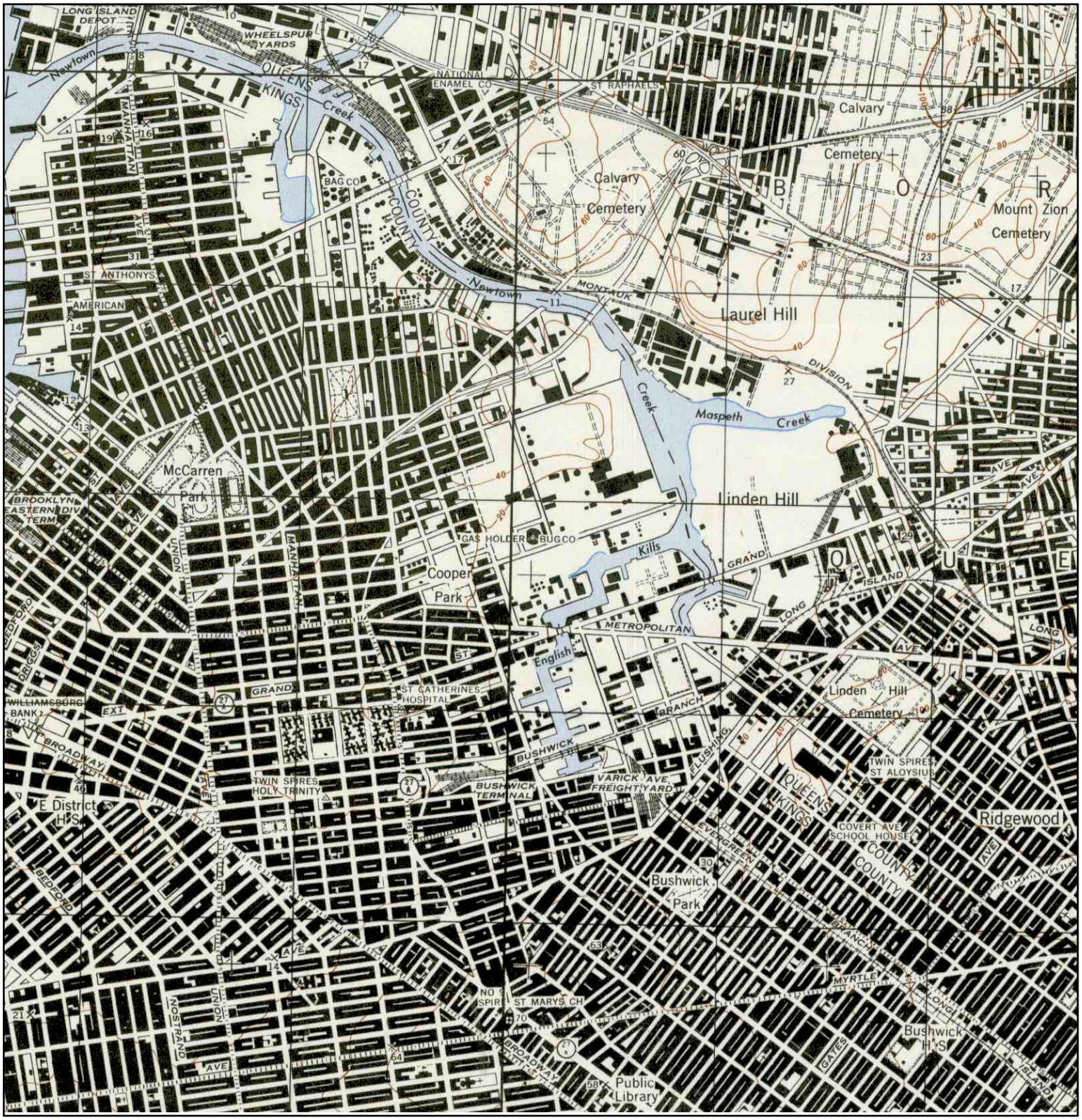
Historical Topographic Map



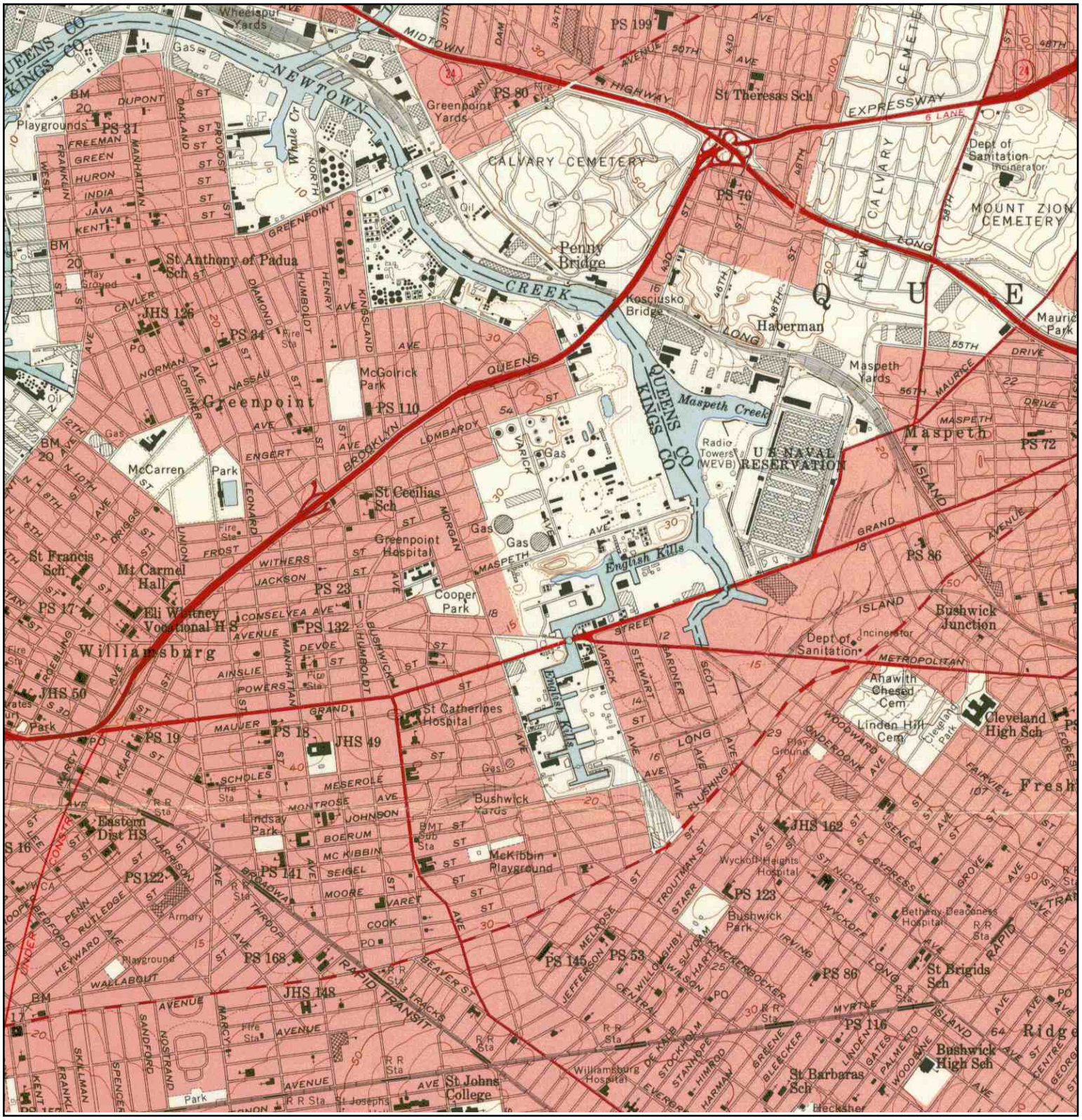
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: Fed Ex ADDRESS: 300 Maspeth Ave Brooklyn, NY 11211 LAT/LONG: 40.7171 / -73.9321	CLIENT: AECOM CONTACT: Joshua Millard INQUIRY#: 3124384.2 RESEARCH DATE: 07/15/2011

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: Fed Ex ADDRESS: 300 Maspeth Ave Brooklyn, NY 11211 LAT/LONG: 40.7171 / -73.9321	CLIENT: AECOM CONTACT: Joshua Millard INQUIRY#: 3124384.2 RESEARCH DATE: 07/15/2011

Historical Topographic Map



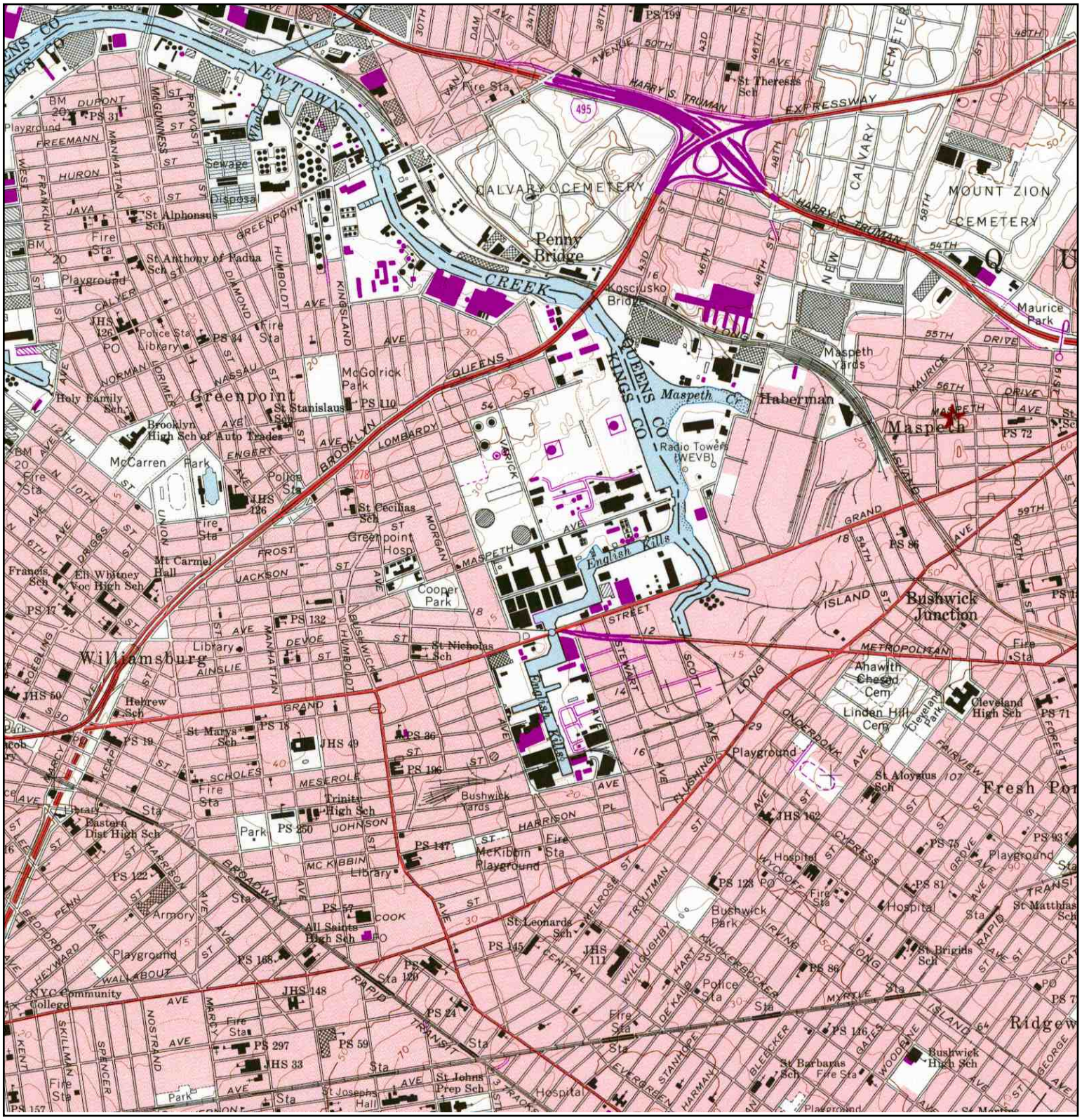
N	TARGET QUAD		SITE NAME:	Fed Ex	CLIENT:	AECOM
	NAME:	BROOKLYN	ADDRESS:	300 Maspeth Ave	CONTACT:	Joshua Millard
	MAP YEAR:	1956		Brooklyn, NY 11211	INQUIRY#:	3124384.2
			LAT/LONG:	40.7171 / -73.9321	RESEARCH DATE:	07/15/2011
	SERIES:	7.5				
	SCALE:	1:24000				

Historical Topographic Map



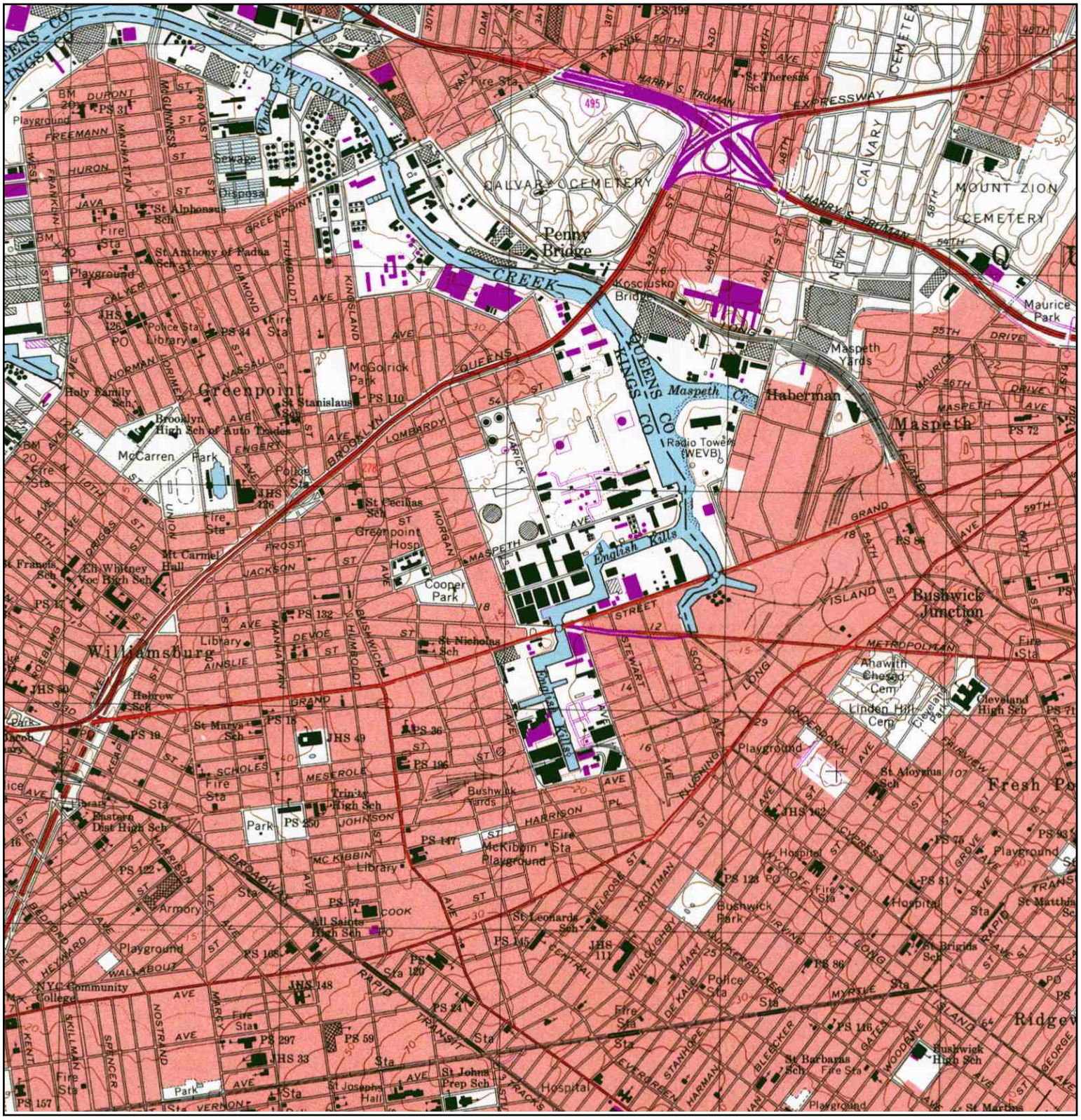
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Fed Ex ADDRESS: 300 Maspeth Ave Brooklyn, NY 11211 LAT/LONG: 40.7171 / -73.9321	CLIENT: AECOM CONTACT: Joshua Millard INQUIRY#: 3124384.2 RESEARCH DATE: 07/15/2011

Historical Topographic Map



N	TARGET QUAD		SITE NAME:	Fed Ex	CLIENT:	AECOM
	NAME:	BROOKLYN	ADDRESS:	300 Maspeth Ave	CONTACT:	Joshua Millard
	MAP YEAR:	1979		Brooklyn, NY 11211	INQUIRY#:	3124384.2
	PHOTOREVISED:	1967	LAT/LONG:	40.7171 / -73.9321	RESEARCH DATE:	07/15/2011
	SERIES:	7.5				
	SCALE:	1:24000				

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Fed Ex ADDRESS: 300 Maspeth Ave Brooklyn, NY 11211 LAT/LONG: 40.7171 / -73.9321	CLIENT: AECOM CONTACT: Joshua Millard INQUIRY#: 3124384.2 RESEARCH DATE: 07/15/2011

Count: 20 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	1000222266	MCKESSON CHEMICAL CO	5258 VARICK ST	11237	RCRA-NonGen, FINDS
MASPETH	1001224099	T D I - TRANSPORTATION DISPLAYS INC	40-29 MASPETH AVE	11378	RCRA-NonGen, FINDS, MANIFEST
BROOKLYN	1007208397	CON EDISION - MH38210	S/INT KINGS HWY & W 7 ST. S/IN	10003	RCRA-NonGen, MANIFEST
BROOKLYN	1007208558	CON EDISION - VS 4740	MASPETH & GARDNER AVE MASPETH	10003	RCRA-NonGen, MANIFEST
BROOKLYN	1007208596	CON EDISION - VS3725	W/S VARRICK AVE. 618 N/O JOHNS	10003	RCRA-NonGen, MANIFEST
BROOKLYN	1009233319	NYNEX	MASPETH AVE	11211	MANIFEST
BROOKLYN	1009234540	NYNEX	KINGS HIWY & AVE H		MANIFEST
CORONA	1009235574	NYCDEP	340 STATE ST BETWEEN BOND/HOYT	11378	MANIFEST
MOUNT KISCO	1010327258	CON EDISON OVERHEAD TRANSFORMER POLE W 1	MOUNT KISCO RD AT OLD RTE 22	10549	RCRA-NonGen, MANIFEST
BRONX	1010488291	NYSDOT BIN 1066220	EDWARD L GRANT HWY CBG	10452	FINDS, MANIFEST
BROOKLYN	1014396312	CON EDISON - MANHOLE 43904	41 VARICK AVE & HARRISON PL	11237	RCRA-LQG
BROOKLYN	1014396315	CON EDISON - MANHOLE 56833	18 VARICK AVE & GRATTAN ST	11237	RCRA-LQG
BKLYN	S102142527	E 29TH ST & KINGS HWY	E 29TH ST & KINGS HWY		NY Spills, NY Hist Spills
BROOKLYN	S103938400	BOX 38486	KINGS HIGHWAY/ROCKAWAY PK		NY Spills, NY Hist Spills
BROOKLYN	S106737045	BETW/AVE X &	KINGS HIGHWAY AVE U		NY Spills
BROOKLYN	S107407580	KINGS HIGHWAY MOBIL	KINGS HIGHWAY		NY Spills
BROOKLYN	S109064521	BELL ATLANTIC-NY	E 94 ST/BET CLARKSON AVE KINGS HWY		MANIFEST
KINGS COUNTY	S109207895	205842; KINGS HWY	KINGS HWY		NY Spills
BROOKLYN	S111011715	ROADWAY	KINGS HIGHWAY AND OCEAN PARKWAY		NY Spills
BROOKLYN	S111011885	TO ROADWAY	KINGS HWY AND EAST 16TH ST		NY Spills

Site	Database(s)	EDR ID Number EPA ID Number
MCKESSON CHEMICAL CO **5258 VARICK ST** **BROOKLYN, NY 11237**	**RCRA-NonGen** **FINDS**	**1000222266** **NYD020581153**

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	MCKESSON CHEMICAL CO
Facility address:	5258 VARICK ST BROOKLYN, NY 11237
EPA ID:	NYD020581153
Mailing address:	VARICK ST BROOKLYN, NY 11237
Contact:	QUENT CARRIGAN
Contact address:	VARICK ST BROOKLYN, NY 11237
Contact country:	US
Contact telephone:	(201) 636-4660
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	FOREMOST MCKESSON INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	FOREMOST MCKESSON INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

Site	Database(s)	EDR ID Number EPA ID Number

MCKESSON CHEMICAL CO (Continued) 1000222266

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: MCKESSON CHEMICAL CO
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: MCKESSON CHEMICAL CO
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/30/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004351111

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

T D I - TRANSPORTATION DISPLAYS INC **RCRA-NonGen 1001224099**
40-29 MASPETH AVE **FINDS NYR000053157**
MASPETH, NY 11378 **MANIFEST**

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: T D I - TRANSPORTATION DISPLAYS INC
Facility address: 40-29 MASPETH AVE
MASPETH, NY 11378
EPA ID: NYR000053157
Mailing address: MASPETH AVE
MASPETH, NY 11378
Contact: DAVID DORION
Contact address: MASPETH AVE
MASPETH, NY 11378
Contact country: US
Contact telephone: (718) 366-6180
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Site	Database(s)	EDR ID Number EPA ID Number
T D I - TRANSPORTATION DISPLAYS INC (Continued)		1001224099

Owner/Operator Summary:

Owner/operator name:	WINSTON MASPETH ASSOCIATES
Owner/operator address:	225 W 34TH ST NEW YORK, NY 10001
Owner/operator country:	US
Owner/operator telephone:	(212) 594-1150
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	WINSTON MASPETH ASSOCIATES
Owner/operator address:	225 W 34TH ST NEW YORK, NY 10001
Owner/operator country:	US
Owner/operator telephone:	(212) 594-1150
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	T D I - TRANSPORTATION DISPLAYS INC
Classification:	Not a generator, verified

Date form received by agency:	04/06/1998
Facility name:	T D I - TRANSPORTATION DISPLAYS INC
Classification:	Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110004542013

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

Site	Database(s)	EDR ID Number EPA ID Number
T D I - TRANSPORTATION DISPLAYS INC (Continued)		1001224099

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000053157
Country:	USA
Mailing Name:	TDI ATT - PETER VELAZQUEZ
Mailing Contact:	DAVID DORION
Mailing Address:	40-29 MASPETH AVE
Mailing Address 2:	Not reported
Mailing City:	MASPETH
Mailing State:	NY
Mailing Zip:	11378
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	914-923-4656

Document ID:	NJA2861875
Manifest Status:	Not reported
Trans1 State ID:	NJD980772768
Trans2 State ID:	Not reported
Generator Ship Date:	04/24/1998
Trans1 Recv Date:	04/24/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/24/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000053157
Trans1 EPA ID:	NJD991291105
Trans2 EPA ID:	Not reported
TSDF ID:	S6993
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	U239 - XYLENE
Quantity:	00165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00

Site	Database(s)	EDR ID Number EPA ID Number

T D I - TRANSPORTATION DISPLAYS INC (Continued) 1001224099

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98

CON EDISION - MH38210 **RCRA-NonGen** **1007208397**
S/INT KINGS HWY & W 7 ST. S/IN **MANIFEST** **NYP004089009**
BROOKLYN, NY 10003

RCRA-NonGen:

Date form received by agency:	06/02/2002
Facility name:	CON EDISION - MH38210
Facility address:	S/INT KINGS HWY & W 7 ST. S/IN BROOKLYN, NY 10003
EPA ID:	NYP004089009
Mailing address:	IRVING PLACE NEW YORK, NY 10003
Contact:	ANTHONY DRUMMINGS
Contact address:	IRVING PLACE NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/01/2002
Facility name:	CON EDISION - MH38210
Classification:	Not a generator, verified

Date form received by agency:	05/31/2002
Facility name:	CON EDISION - MH38210
Classification:	Large Quantity Generator

Site	Database(s)	EDR ID Number EPA ID Number
CON EDISION - MH38210 (Continued)		1007208397

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP004089009
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYE0415548
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2001
Trans1 Recv Date:	08/31/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004089009
Trans1 EPA ID:	NYD980593636
Trans2 EPA ID:	Not reported
TSDF ID:	31877AJ
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	01936
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

Document ID:	NYE0620649
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/2001
Trans1 Recv Date:	08/31/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/04/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004089009
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	74791AV
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00600

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISION - MH38210 (Continued) 1007208397

Units: K - Kilograms (2.2 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 01

CON EDISION - VS 4740 **RCRA-NonGen 1007208558**
MASPETH & GARDNER AVE MASPETH **MANIFEST NYP004092433**
BROOKLYN, NY 10003

RCRA-NonGen:
Date form received by agency: 06/02/2002
Facility name: CON EDISION - VS 4740
Facility address: MASPETH & GARDNER AVE MASPETH
BROOKLYN, NY 10003
EPA ID: NYP004092433
Mailing address: IRVING PLACE
NEW YORK, NY 10003
Contact: ANTHONY DRUMMINGS
Contact address: IRVING PLACE
NEW YORK, NY 10003
Contact country: US
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/01/2002
Facility name: CON EDISION - VS 4740
Classification: Not a generator, verified

Date form received by agency: 05/31/2002
Facility name: CON EDISION - VS 4740
Classification: Large Quantity Generator

Violation Status: No violations found

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISION - VS 4740 (Continued) 1007208558

NY MANIFEST:

EPA ID:	NYP004092433
Country:	USA
Mailing Name:	CONSOLIDATED EDISON
Mailing Contact:	FRANKLIN MURRAY
Mailing Address:	4 IRVING PLACE RM 828
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10003
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-460-2808

Document ID:	NYE0688689
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	11/16/2001
Trans1 Recv Date:	11/16/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/18/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004092433
Trans1 EPA ID:	NYD980593636
Trans2 EPA ID:	Not reported
TSDF ID:	20856AD
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	01022
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

CON EDISION - VS3725 **RCRA-NonGen 1007208596**
W/S VARRICK AVE. 618 N/O JOHNS **MANIFEST NYP004093548**
BROOKLYN, NY 10003

RCRA-NonGen:

Date form received by agency:	06/02/2002
Facility name:	CON EDISION - VS3725
Facility address:	W/S VARRICK AVE. 618 N/O JOHNS BROOKLYN, NY 10003
EPA ID:	NYP004093548
Mailing address:	IRVING PLACE NEW YORK, NY 10003
Contact:	ANTHONY DRUMMINGS
Contact address:	IRVING PLACE NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISION - VS3725 (Continued) 1007208596

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/01/2002
Facility name: CON EDISION - VS3725
Classification: Not a generator, verified

Date form received by agency: 05/31/2002
Facility name: CON EDISION - VS3725
Classification: Large Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004093548
Country: USA
Mailing Name: CONSOLIDATED EDISON
Mailing Contact: FRANKLIN MURRAY
Mailing Address: 4 IRVING PLACE RM 828
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10003
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-460-2808

Document ID: NYE0704961
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 12/04/2001
Trans1 Recv Date: 12/04/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/05/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISION - VS3725 (Continued) 1007208596

Generator EPA ID:	NYP004093548
Trans1 EPA ID:	NYD980593636
Trans2 EPA ID:	Not reported
TSDF ID:	SM1708
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	02101
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

NYNEX **MANIFEST** **1009233319**
MASPETH AVE **N/A**
BROOKLYN, NY 11211

NY MANIFEST:

EPA ID:	NYP000913574
Country:	USA
Mailing Name:	NYNEX
Mailing Contact:	CARMEN RAMOS
Mailing Address:	1095 AVE OF AMER-RM 3025
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10036
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-395-6040

Document ID:	NJA1861591
Manifest Status:	Completed copy
Trans1 State ID:	50060
Trans2 State ID:	Not reported
Generator Ship Date:	940308
Trans1 Recv Date:	940309
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	940309
Part A Recv Date:	940517
Part B Recv Date:	940321
Generator EPA ID:	NYP000913574
Trans1 EPA ID:	NYD980761191
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Site	Database(s)	EDR ID Number EPA ID Number
NYNEX **KINGS HIWY & AVE H** **BROOKLYN, NY**	**MANIFEST**	**1009234540** **N/A**

NY MANIFEST:

EPA ID:	NYP000932327
Country:	USA
Mailing Name:	NYNEX
Mailing Contact:	V ORCHIER
Mailing Address:	221 EAST 37TH STREET
Mailing Address 2:	Not reported
Mailing City:	NEW YORK
Mailing State:	NY
Mailing Zip:	10016
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	212-338-7126

Document ID:	MIA4512823
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	961210
Trans1 Recv Date:	961210
Trans2 Recv Date:	961213
TSD Site Recv Date:	970103
Part A Recv Date:	Not reported
Part B Recv Date:	970123
Generator EPA ID:	NYP000932327
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID:	MID096963194
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01200
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	96

Site	Database(s)	EDR ID Number EPA ID Number
NYCDEP **340 STATE ST BETWEEN BOND/HOYT** **CORONA, NY 11378**	**MANIFEST**	**1009235574** **N/A**

NY MANIFEST:

EPA ID:	NYP003660362
Country:	USA
Mailing Name:	NYCDEP
Mailing Contact:	CHRIS HAAS
Mailing Address:	59-17 JUNCTION BLVD
Mailing Address 2:	Not reported
Mailing City:	FLUSHING
Mailing State:	NY
Mailing Zip:	11368
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-595-0406

Site	Database(s)	EDR ID Number EPA ID Number

NYCDEP (Continued) 1009235574

Document ID:	NYG0526122
Manifest Status:	Not reported
Trans1 State ID:	NYD049178296
Trans2 State ID:	Not reported
Generator Ship Date:	03/09/1998
Trans1 Recv Date:	03/09/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/09/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP003660362
Trans1 EPA ID:	NYD049178296
Trans2 EPA ID:	Not reported
TSDF ID:	NYP4339
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00050
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	98

CON EDISON OVERHEAD TRANSFORMER POLE W 11 **RCRA-NonGen** **1010327258**
MOUNT KISCO RD AT OLD RTE 22 **MANIFEST** **NYP004145462**
MOUNT KISCO, NY 10549

RCRA-NonGen:

Date form received by agency:	01/11/2007
Facility name:	CON EDISON OVERHEAD TRANSFORMER POLE W 11
Facility address:	MOUNT KISCO RD & OLD RTE 22 POLE W 11 MOUNT KISCO, NY 10549
EPA ID:	NYP004145462
Mailing address:	IRVING PL RM 828 NEW YORK, NY 10003
Contact:	WILLIAM CAPUNE
Contact address:	IRVING PL RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISON OVERHEAD TRANSFORMER POLE W 11 (Continued) 1010327258

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/10/2007
Facility name: CON EDISON OVERHEAD TRANSFORMER POLE W 11
Site name: CON EDISON
Classification: Not a generator, verified

Date form received by agency: 01/09/2007
Facility name: CON EDISON OVERHEAD TRANSFORMER POLE W 11
Site name: CON EDISON
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004145462
Country: USA
Mailing Name: CONED
Mailing Contact: CONED
Mailing Address: 31-01 20TH AVE
Mailing Address 2: BLDG 136
Mailing City: ASTORIA
Mailing State: NY
Mailing Zip: 11105
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 718-204-4151

NY MANIFEST:
No Manifest Records Available

NYSDOT BIN 1066220 **FINDS 1010488291**
EDWARD L GRANT HWY CBG **MANIFEST 110032650897**
BRONX, NY 10452

FINDS:

Registry ID: 110032650897

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000147900
Country: USA

Site	Database(s)	EDR ID Number EPA ID Number

NYSDOT BIN 1066220 (Continued) 1010488291

Mailing Name:	NYSDOT BIN 1066220
Mailing Contact:	ROBERT BURTON
Mailing Address:	2901 DEWEY AVE
Mailing Address 2:	Not reported
Mailing City:	BRONX
Mailing State:	NY
Mailing Zip:	10465
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	718-828-7440

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	2008-01-02
Trans1 Recv Date:	2008-01-02
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-01-03
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000147900
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	15500.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	000069856WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	2008-01-02
Trans1 Recv Date:	2008-01-02
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-01-03
Part A Recv Date:	Not reported

Site	Database(s)	EDR ID Number EPA ID Number
NYSDOT BIN 1066220 (Continued)		1010488291

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000147900
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	15500.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	000069856WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	2008-01-02
Trans1 Recv Date:	2008-01-02
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-01-03
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000147900
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	15500.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	000069856WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

Site	Database(s)	EDR ID Number EPA ID Number

NYSDOT BIN 1066220 (Continued) 1010488291

Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H111

CON EDISON - MANHOLE 43904 **RCRA-LQG** **1014396312**
41 VARICK AVE & HARRISON PL **NYP004185674**
BROOKLYN, NY 11237

RCRA-LQG:
Date form received by agency: 03/23/2010
Facility name: CON EDISON - MANHOLE 43904
Facility address: 41 VARICK AVE & HARRISON PL
BROOKLYN, NY 11237
EPA ID: NYP004185674
Mailing address: 4 IRVING PLACE
NEW YORK, NY 10003
Contact: FRANKLYN MURRAY
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-2808
Contact email: MURRAYFR@CONED.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/23/2009
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/23/2009

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISON - MANHOLE 43904 (Continued) 1014396312

Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 07/23/2009
- Facility name: CON EDISON - MANHOLE 43904
- Site name: CON EDISON
- Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
- Waste code: D008
- Waste name: LEAD

Violation Status: No violations found

CON EDISON - MANHOLE 56833 **RCRA-LQG** **1014396315**
18 VARICK AVE & GRATTAN ST **NYP004185708**
BROOKLYN, NY 11237

RCRA-LQG:
- Date form received by agency: 03/23/2010
- Facility name: CON EDISON - MANHOLE 56833
- Facility address: 18 VARICK AVE & GRATTAN ST
  BROOKLYN, NY 11237
- EPA ID: NYP004185708
- Mailing address: 4 IRVING PLACE
  NEW YORK, NY 10003
- Contact: FRANKLYN MURRAY
- Contact address: Not reported
  Not reported
- Contact country: Not reported
- Contact telephone: (212) 460-2808
- Contact email: MURRAYFR@CONED.COM
- EPA Region: 02
- Classification: Large Quantity Generator
- Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely

Site	Database(s)	EDR ID Number EPA ID Number
CON EDISON - MANHOLE 56833 (Continued)		1014396315

hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/23/2009
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/23/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	07/23/2009
Facility name:	CON EDISON - MANHOLE 56833
Site name:	CON EDISON
Classification:	Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D008
Waste name:	LEAD

Site	Database(s)	EDR ID Number EPA ID Number

CON EDISON - MANHOLE 56833 (Continued) 1014396315

Violation Status: No violations found

E 29TH ST & KINGS HWY **NY Spills** **S102142527**
E 29TH ST & KINGS HWY **NY Hist Spills** **N/A**
BKLYN, NY

NY Spills:

Site ID:	141932
Facility Addr2:	Not reported
Facility ID:	9110818
Spill Number:	9110818
Facility Type:	ER
SWIS:	2401
Investigator:	SJMILLER
Referred To:	Not reported
Spill Date:	1/17/1992
Reported to Dept:	1/17/1992
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Other
Cleanup Ceased:	2/7/1992
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/7/1992
Remediation Phase:	0
Date Entered In Computer:	2/7/1992
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	T & S TRUCKING
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	2
DER Facility ID:	121166
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
Remarks:	NYC DEP, DOS, AND PD NOTIFIED. CLEANUP CONFIRMED.

Material:

Site ID:	141932
Operable Unit ID:	964672
Operable Unit:	01
Material ID:	415897
Material Code:	0002
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	200
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

Site	Database(s)	EDR ID Number EPA ID Number

E 29TH ST & KINGS HWY (Continued) S102142527

Oxygenate: False

Tank Test:
- Site ID: Not reported
- Spill Tank Test: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate: Not reported
- Gross Fail: Not reported
- Modified By: Not reported
- Last Modified: Not reported
- Test Method: Not reported

NY Hist Spills:
- Region of Spill: 2
- Spill Number: 9110818
- Investigator: MILLER
- Caller Name: Not reported
- Caller Agency: Not reported
- Caller Phone: Not reported
- Notifier Name: Not reported
- Notifier Agency: Not reported
- Notifier Phone: Not reported
- Spill Date/Time: 01/17/1992 08:37
- Reported to Dept Date/Time: 01/17/92 08:37
- SWIS: 61
- Spiller Name: T & S TRUCKING
- Spiller Contact: Not reported
- Spiller Phone: Not reported
- Spiller Address: Not reported
- Spiller City,St,Zip: Not reported
- Spill Cause: Equipment Failure
- Reported to Dept: On Land
- Water Affected: Not reported
- Spill Source: 08
- Spill Notifier: Other
- PBS Number: Not reported
- Cleanup Ceased: 02/07/92
- Cleanup Meets Std: True
- Last Inspection: / /
- Recommended Penalty: Penalty Not Recommended
- Spiller Cleanup Dt: / /
- Enforcement Date: / /
- Invstgn Complete: / /
- UST Involvement: False
- Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
- Spill Closed Dt: 02/07/92
- Corrective Action Plan Submitted: / /
- Date Region Sent Summary to Central Office: 02/07/92
- Date Spill Entered In Computer Data File: 02/07/92
- Date Spill Entered In Computer Data File: Not reported
- Update Date: / /
- Is Updated: False

Site	Database(s)	EDR ID Number EPA ID Number

E 29TH ST & KINGS HWY (Continued) S102142527

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	200
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	#4 FUEL OIL
Class Type:	#4 FUEL OIL
Times Material Entry In File:	1751
CAS Number:	Not reported
Last Date:	19941205
DEC Remarks:	Not reported
Remark:	NYC DEP, DOS, AND PD NOTIFIED. CLEANUP CONFIRMED.

BOX 38486 **NY Spills S103938400**
KINGS HIGHWAY/ROCKAWAY PK **NY Hist Spills N/A**
BROOKLYN, NY

NY Spills:

Site ID:	138755
Facility Addr2:	Not reported
Facility ID:	9902959
Spill Number:	9902959
Facility Type:	ER
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Spill Date:	6/15/1999
Reported to Dept:	6/15/1999
CID:	312
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/18/2000
Remediation Phase:	0
Date Entered In Computer:	6/15/1999
Spill Record Last Update:	6/8/2000
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE

Site	Database(s)	EDR ID Number EPA ID Number

BOX 38486 (Continued) S103938400

Spiller City,St,Zip: NEW YORK, NY 10003
Spiller Company: 999
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 118628
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL" Con ed e2mis notes: Approx 8 ounces of an unknown oil on 6 gallons of water. <1.00 ppm pcb, cleanup completed and tag removed.
Remarks: 8 OUNCES OF UNK OIL ON 6GAL OF WATER - CONTAINED - SAMPLE TAKEN - CASE #125562

Material:
Site ID: 138755
Operable Unit ID: 1081884
Operable Unit: 01
Material ID: 302888
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 2
Spill Number: 9902959
Investigator: O'CONNELL
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/15/1999 09:30
Reported to Dept Date/Time: 06/15/99 10:13
SWIS: 61
Spiller Name: CON EDISON
Spiller Contact: Not reported
Spiller Phone: ( ) -

Site	Database(s)	EDR ID Number EPA ID Number

BOX 38486 (Continued) S103938400

Spiller Address: 4 IRVING PLACE
Spiller City,St,Zip: NEW YORK, NY 10003-
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 05/18/00
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/15/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/08/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 1
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Con ed e2mis notes: Approx 8 ounces of an unknown oil on 6 gallons of water. <1.00 ppm pcb, cleanup completed and tag removed.
Remark: 8 OUNCES OF UNK OIL ON 6GAL OF WATER - CONTAINED - SAMPLE TAKEN - CASE 125562

BETW/AVE X &
KINGS HIGHWAY AVE U
BROOKLYN, NY

NY Spills **S106737045**
N/A

NY Spills:
Site ID: 336716
Facility Addr2: Not reported
Facility ID: 0411503

Site	Database(s)	EDR ID Number EPA ID Number

BETW/AVE X & (Continued) S106737045

Spill Number:	0411503
Facility Type:	ER
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Spill Date:	1/25/2005
Reported to Dept:	1/26/2005
CID:	74
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Railroad Car
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	2/7/2005
Remediation Phase:	0
Date Entered In Computer:	1/26/2005
Spill Record Last Update:	2/7/2005
Spiller Name:	CLAIRE SAMMON
Spiller Company:	NYC TRANSIT
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	CLAIRE SAMMON
Contact Phone:	(718) 243-4581
DEC Region:	2
DER Facility ID:	272045
DEC Memo:	02/07/05: No gasoline spilled, only diesel. Snow Blower Train struck a guard timber, cracking a valve. A couple of gallons was spilled at 18th Avenue & Macdonald Avenue. The train went back to Coney Island Yard where a drip pan was placed under the leak. The product was off loaded. NYCT send a crew to apply speedy dry to Macdonald Avenue. it was all cleaned. there was some drips lost during the movement of the train back to the yard. This is minor and unrecoverable. It was determined that only 4 gallons was lost based on the volume of the tank and how much was off loaded.
Remarks:	At least 5 gallons have leaked. Snow blower train - struck unidentified object on the track - the fuel tank started leaking - while train was moving. No known water resource affected. Spill is under investigation. Spill is contained. Drum tanks have been put in place to collect any future leakage. Capacity of tank is 1100 gallons. Train was returned to Ave X after this occurred.

Material:

Site ID:	336716
Operable Unit ID:	1098724
Operable Unit:	01
Material ID:	578908
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5

Site	Database(s)	EDR ID Number EPA ID Number

BETW/AVE X & (Continued) S106737045

Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 336716
Operable Unit ID: 1098724
Operable Unit: 01
Material ID: 578901
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

KINGS HIGHWAY MOBIL **NY Spills** **S107407580**
KINGS HIGHWAY **N/A**
BROOKLYN, NY

NY Spills:
Site ID: 235276
Facility Addr2: Not reported
Facility ID: 0402073
Spill Number: 0402073
Facility Type: ER
SWIS: 2401
Investigator: SMSANGES
Referred To: Not reported
Spill Date: 5/25/2004
Reported to Dept: 5/25/2004
CID: 444
Spill Cause: Housekeeping
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Citizen
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Possible release with minimal potential for fire or hazard or Known

Site	Database(s)	EDR ID Number EPA ID Number

KINGS HIGHWAY MOBIL (Continued) S107407580

	release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/25/2004
Remediation Phase:	0
Date Entered In Computer:	5/25/2004
Spill Record Last Update:	5/25/2004
Spiller Name:	BRUCE LINDHOLM
Spiller Company:	KINGS HIGHWAY MOBIL
Spiller Address:	KINGS HIGHWAY
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	BRUCE LINDHOLM
Contact Phone:	(718) 535-4503
DEC Region:	2
DER Facility ID:	193786
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND" Non regulated material Citizen says that the Mobil gas station spills radiator fluid on it's driveway and it flows into the street. It then evaporates very fast. No specific street address given Not reported
Remarks:	caller says this is the second time this has happened and in the sun itb evaporates very quickly, maybe dec can go over now: callers ays it happens and noone cleanes it up

Material:

Site ID:	235276
Operable Unit ID:	885934
Operable Unit:	01
Material ID:	493257
Material Code:	0028A
Material Name:	ETHYLENE GLYCOL
Case No.:	00107211
Material FA:	Hazardous Material
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site	Database(s)	EDR ID Number EPA ID Number
BELL ATLANTIC-NY **E 94 ST/BET CLARKSON AVE KINGS HWY** **BROOKLYN, NY**	**MANIFEST**	**S109064521** **N/A**

NY MANIFEST:

EPA ID:	NYP000935783
Country:	USA
Mailing Name:	BELL ATLANTIC-NY
Mailing Contact:	Not reported
Mailing Address:	Not reported
Mailing Address 2:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	Not reported

NY MANIFEST:

No Manifest Records Available

Site	Database(s)	EDR ID Number EPA ID Number
205842; KINGS HWY **KINGS HWY** **KINGS COUNTY, NY**	**NY Spills**	**S109207895** **N/A**

NY Spills:

Site ID:	399148
Facility Addr2:	M-1399 S/E INT KINGS HWY & EAST 19 ST
Facility ID:	0890060
Spill Number:	0890060
Facility Type:	ER
SWIS:	2401
Investigator:	Unassigned
Referred To:	Not reported
Spill Date:	5/12/2007
Reported to Dept:	8/2/2007
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/16/2007
Remediation Phase:	0
Date Entered In Computer:	6/12/2008
Spill Record Last Update:	6/12/2008
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	5030 BROADWAY
Spiller City,St,Zip:	New York, NY
Spiller Company:	001
Contact Name:	ERT DESK

Site	Database(s)	EDR ID Number EPA ID Number

205842; KINGS HWY (Continued) S109207895

Contact Phone: (212) 580-8383
DEC Region: 2
DER Facility ID: 348720
DEC Memo: Not reported
Remarks: M-1399 FOUND 2 GALLONS OF DIELECTRIC OIL ON 30 GALLONS OF WATER
Closed: Agency Approval Not Required

Material:
Site ID: 399148
Operable Unit ID: 1156014
Operable Unit: 01
Material ID: 2146893
Material Code: 0541A
Material Name: DIELECTRIC FLUID
Case No.: Not reported
Material FA: Petroleum
Quantity: 2
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

ROADWAY **NY Spills** **S111011715**
KINGS HIGHWAY AND OCEAN PARKWAY **N/A**
BROOKLYN, NY

NY Spills:
Site ID: 448755
Facility Addr2: Not reported
Facility ID: 1101306
Spill Number: 1101306
Facility Type: ER
SWIS: 2401
Investigator: RMPIPER
Referred To: Not reported
Spill Date: 5/4/2011
Reported to Dept: 5/4/2011
CID: Not reported
Spill Cause: Equipment Failure
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False

Site	Database(s)	EDR ID Number EPA ID Number
ROADWAY (Continued)		S111011715

Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 5/5/2011
Remediation Phase: 0
Date Entered In Computer: 5/4/2011
Spill Record Last Update: 5/5/2011
Spiller Name: TASHIA
Spiller Company: NYC TRANSIT
Spiller Address: KINGS HIGHWAY AND OCEAN PARKWAY
Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 999
Contact Name: TASHIA
Contact Phone: Not reported
DEC Region: 2
DER Facility ID: 403362
DEC Memo: small spill to roadway. Spill cleaned and close.d
Remarks: Clean up is done. NYC Transit Personell Cleaned area

Material:
Site ID: 448755
Operable Unit ID: 1198985
Operable Unit: 01
Material ID: 2195325
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Site	Database(s)	EDR ID Number EPA ID Number
TO ROADWAY **KINGS HWY AND EAST 16TH ST** **BROOKLYN, NY**	**NY Spills**	**S111011885** **N/A**

NY Spills:

Site ID:	448997
Facility Addr2:	Not reported
Facility ID:	1101537
Spill Number:	1101537
Facility Type:	ER
SWIS:	2401
Investigator:	Unassigned
Referred To:	Not reported
Spill Date:	5/11/2011
Reported to Dept:	5/11/2011
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	Not Closed
Remediation Phase:	1
Date Entered In Computer:	5/11/2011
Spill Record Last Update:	5/11/2011
Spiller Name:	Not reported
Spiller Company:	NYC TRANSIT
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CLAIRE SALMMON
Contact Phone:	(646) 252-5763
DEC Region:	2
DER Facility ID:	403598
DEC Memo:	Not reported
Remarks:	lost to roadway and sewer, clean up in progress

Material:

Site ID:	448997
Operable Unit ID:	1199220
Operable Unit:	01
Material ID:	2195575
Material Code:	0043A
Material Name:	ANTIFREEZE
Case No.:	Not reported
Material FA:	Other
Quantity:	3
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported

Site	Database(s)	EDR ID Number EPA ID Number
TO ROADWAY (Continued)		S111011885

Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Historical Sanborns

Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Inquiry Number: 3124384.3
July 15, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

7/15/11

Site Name:
Fed Ex
300 Maspeth Ave
Brooklyn, NY 11211

Client Name:
AECOM
1 World Financial Center
New York, NY 10281

EDR Inquiry # 3124384.3

Contact: Joshua Millard

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name: Fed Ex
Address: 300 Maspeth Ave
City, State, Zip: Brooklyn, NY 11211
Cross Street:
P.O. # NA
Project: NA
Certification # 7DF8-4A5B-BE52

Maps Provided:

2007	2001	1990	1981	1951
2006	1995	1989	1980	1933
2005	1994	1988	1979	1907
2004	1993	1987	1977	1888
2003	1992	1986	1968	
2002	1991	1982	1965	

Sanborn® Library search results
Certification # 7DF8-4A5B-BE52

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets



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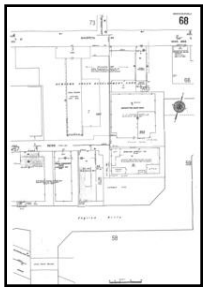

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2006 Source Sheets



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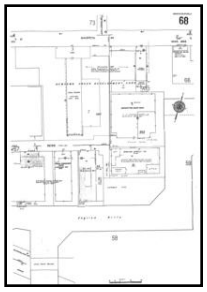

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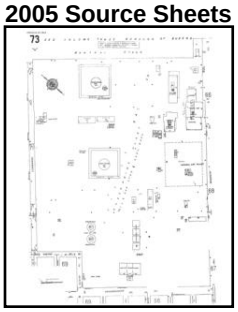
2005 Source Sheets



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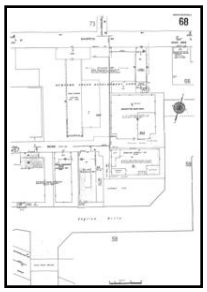

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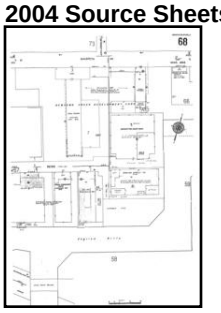

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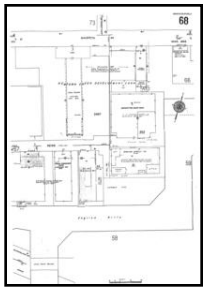

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Volume 9, Sheet 73

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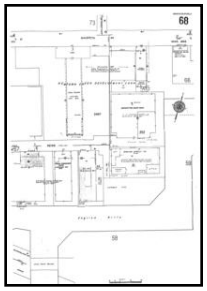

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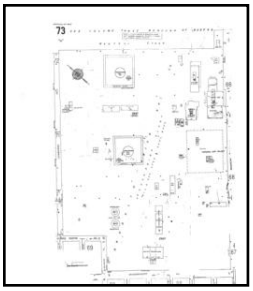

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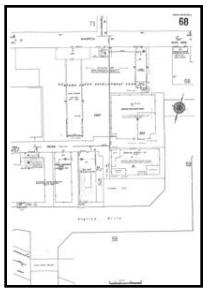

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Volume 9, Sheet 73

1995 Source Sheets



Volume 9, Sheet 73



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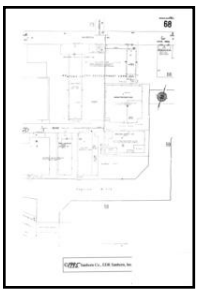

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1994 Source Sheets



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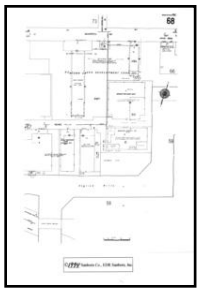

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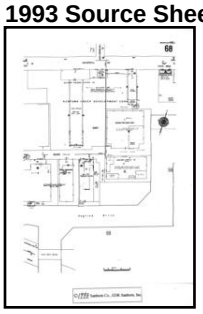

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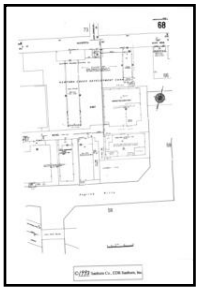

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1992 Source Sheets



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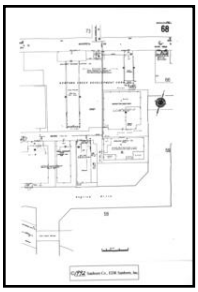
Volume 9, Sheet 67



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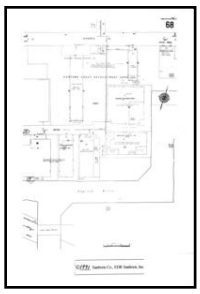

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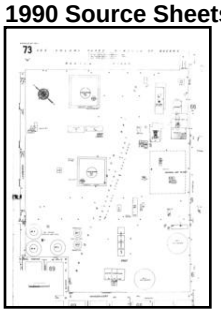
1990 Source Sheets



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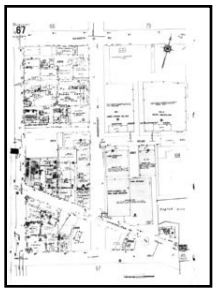

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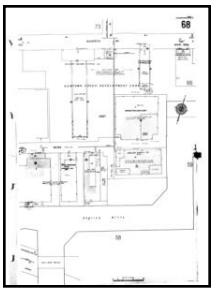

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1989 Source Sheets



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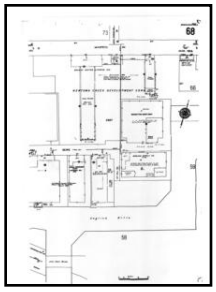

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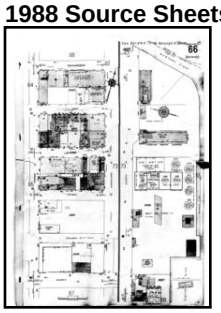
1988 Source Sheets



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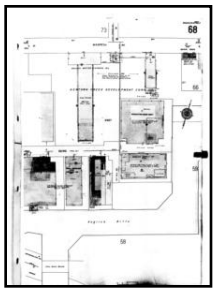

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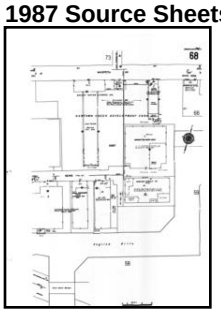

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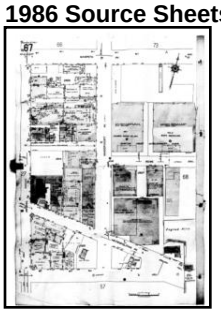

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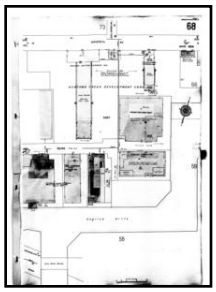

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1982 Source Sheets



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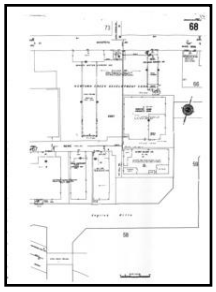

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1981 Source Sheets



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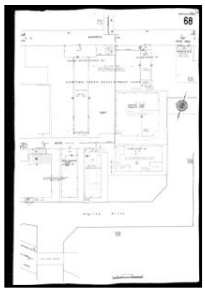

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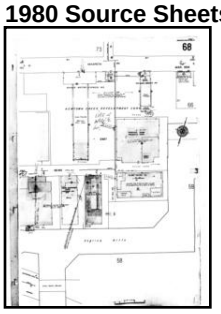

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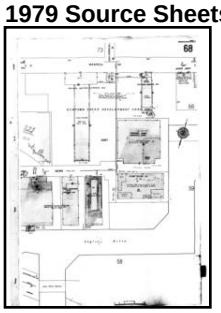

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1977 Source Sheets



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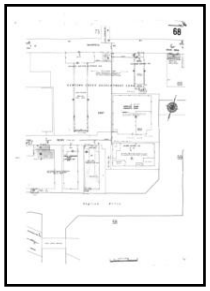

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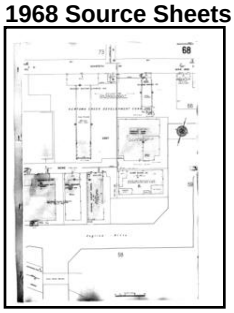
1968 Source Sheets



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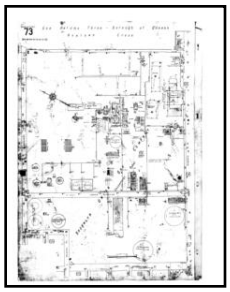

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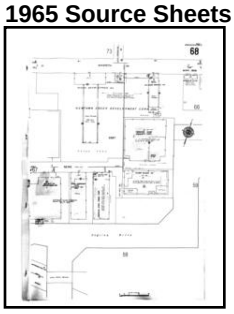
1965 Source Sheets



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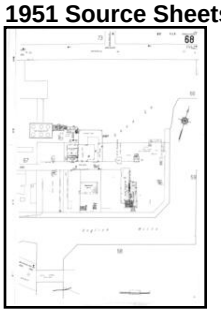

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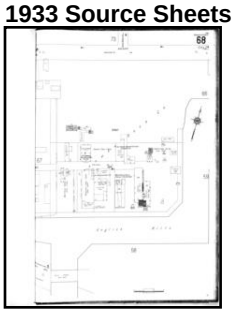
1933 Source Sheets



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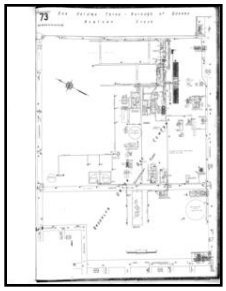

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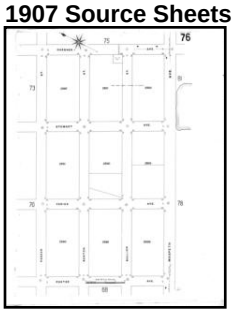

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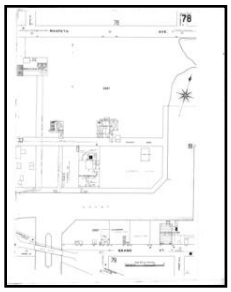

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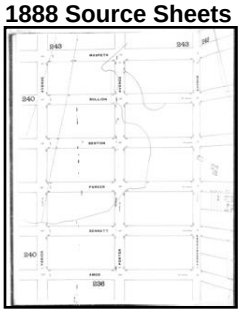

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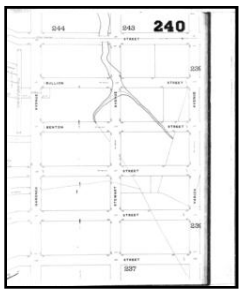

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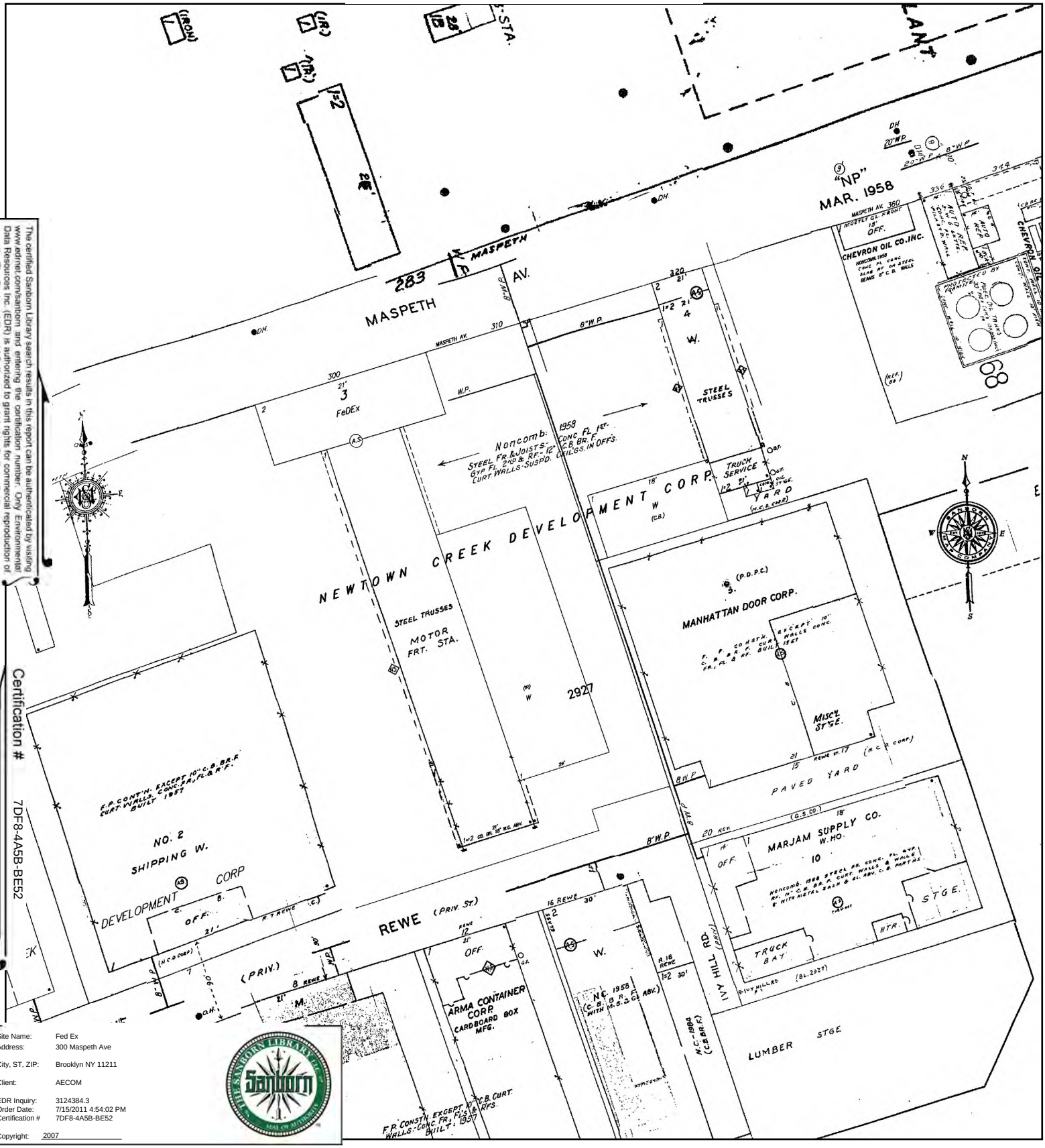

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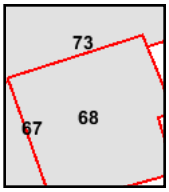

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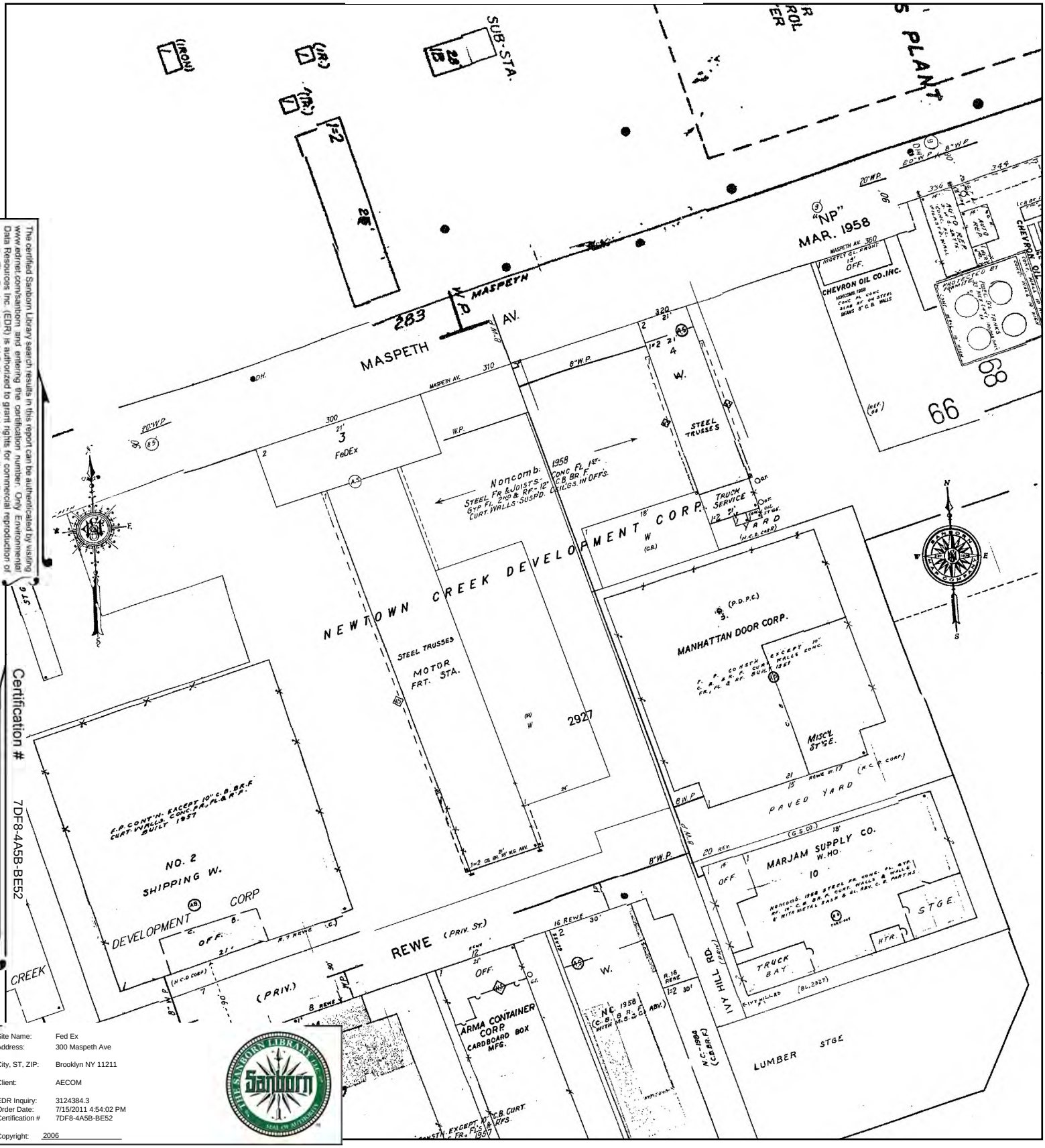

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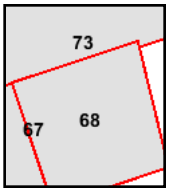

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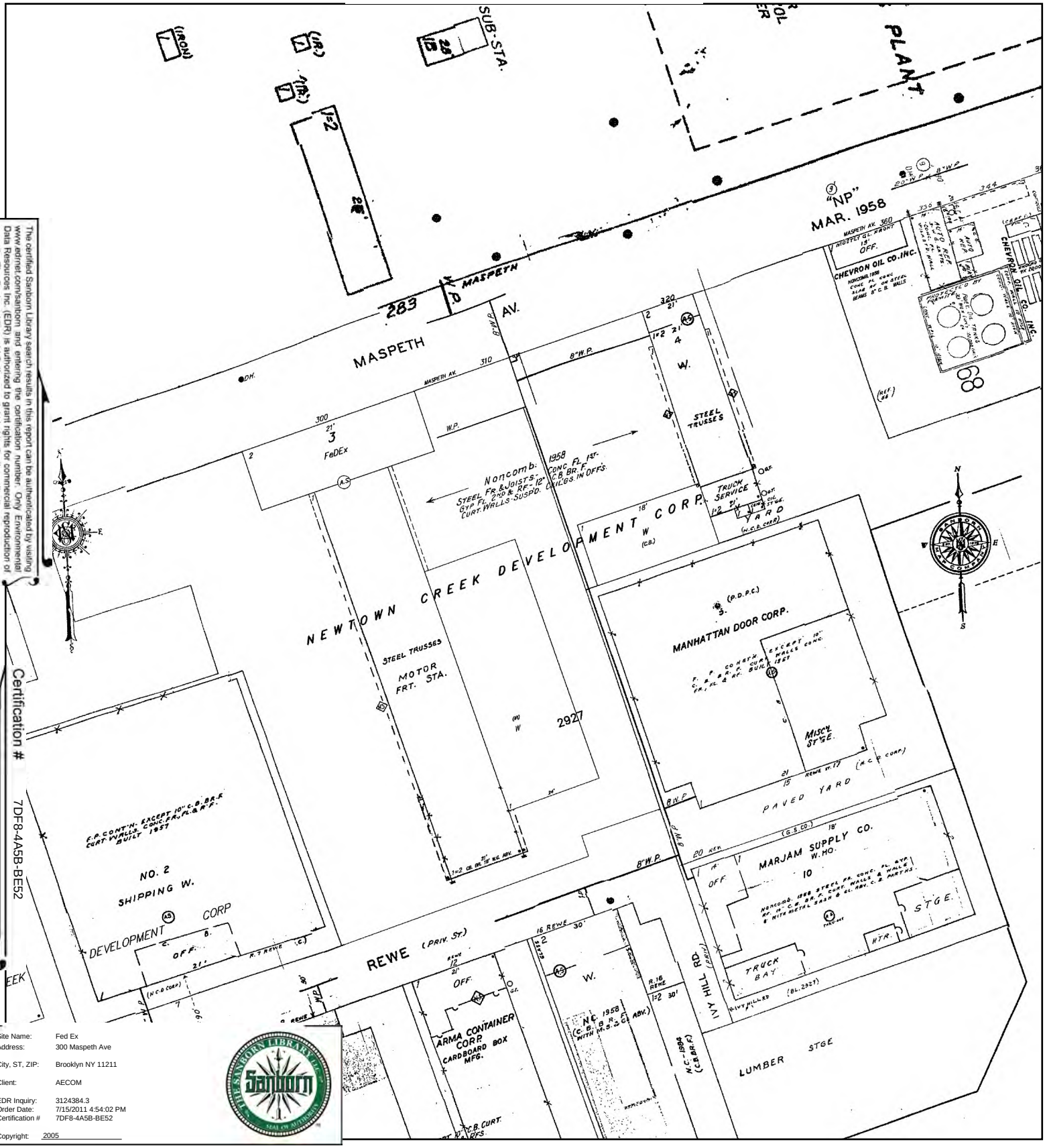

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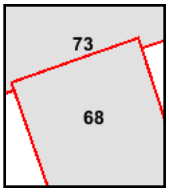

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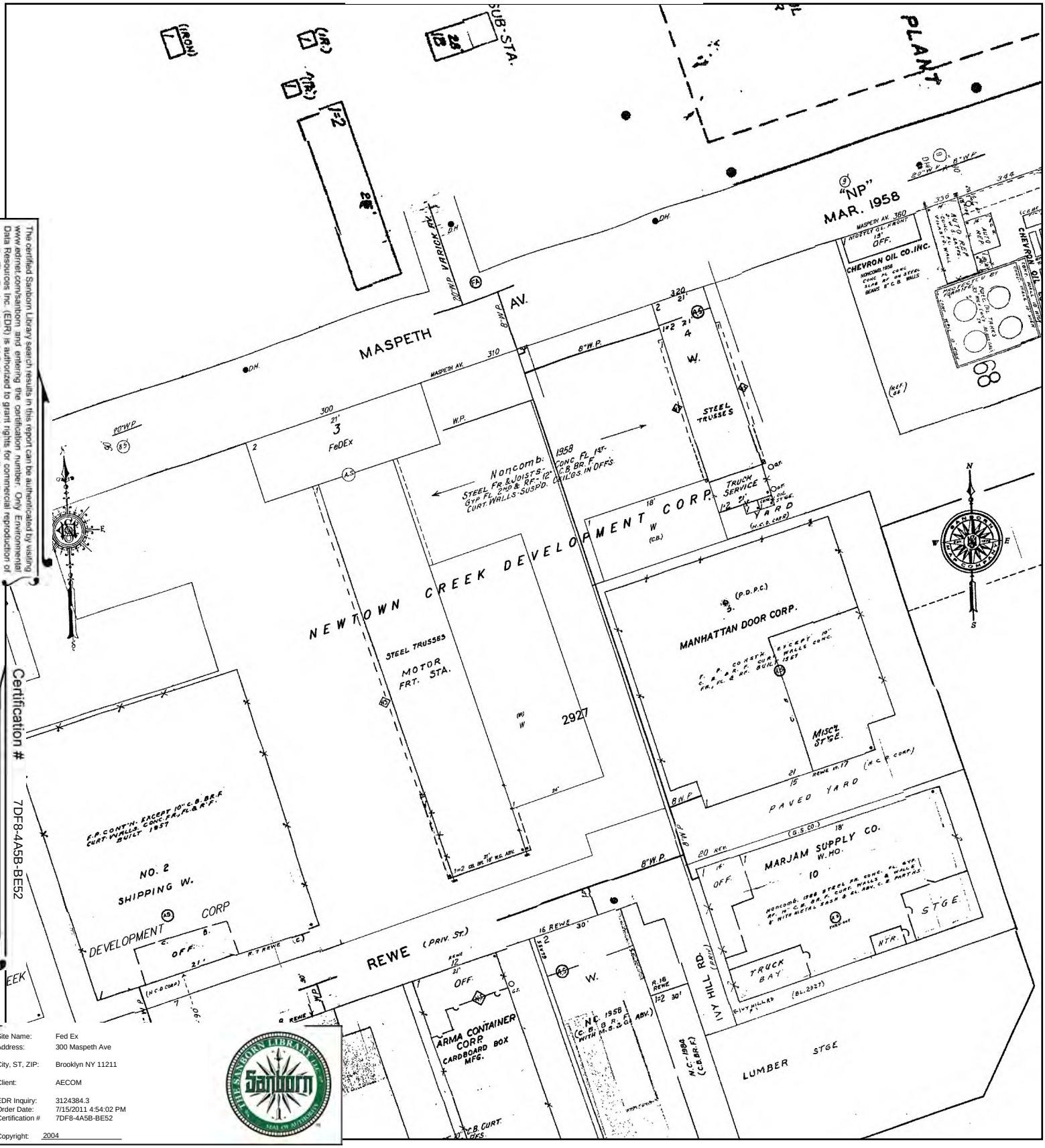
2004 Certified Sanborn Map



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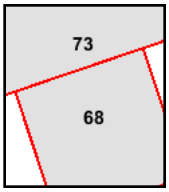

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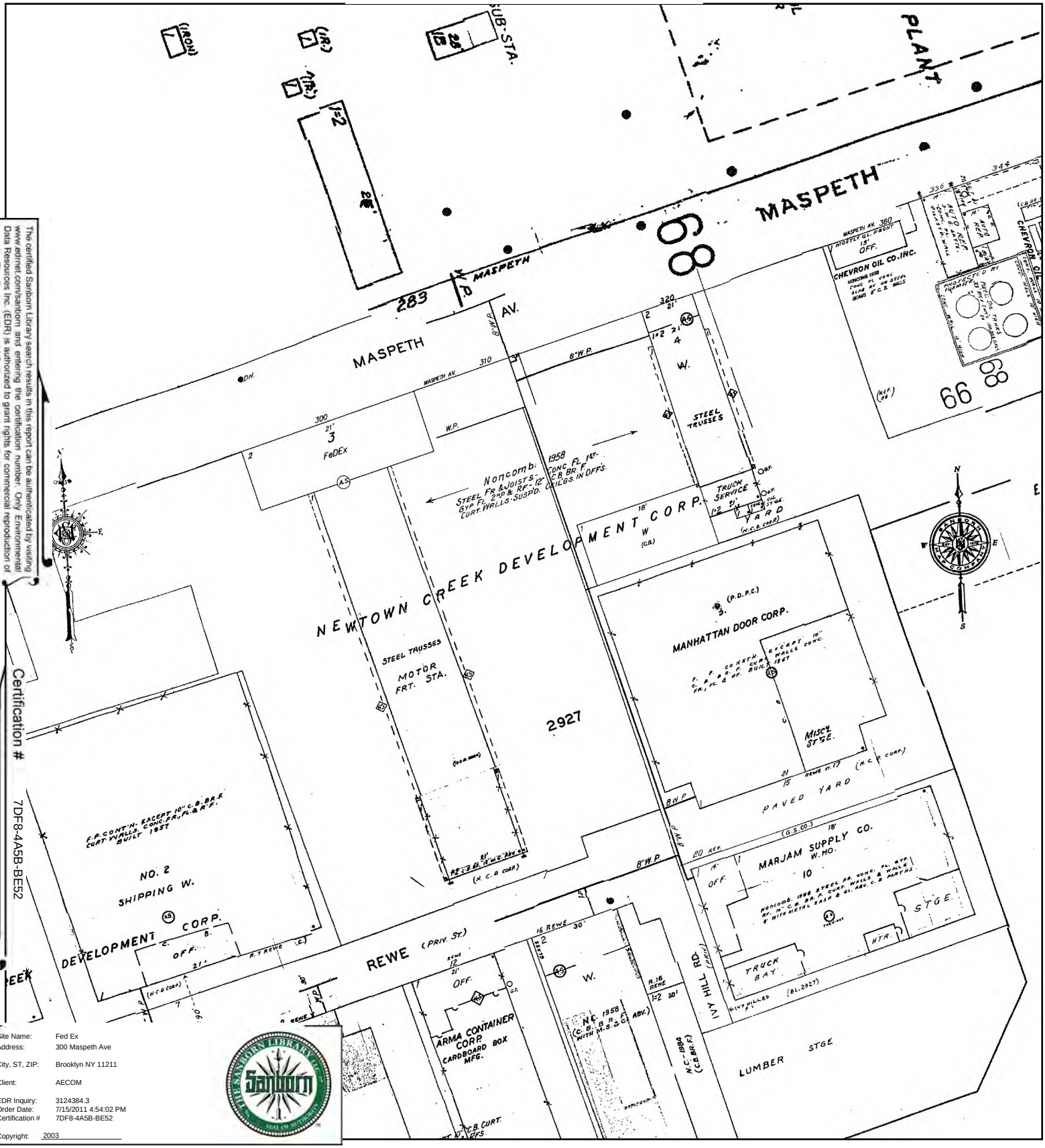

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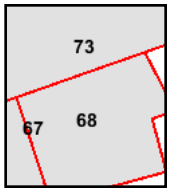

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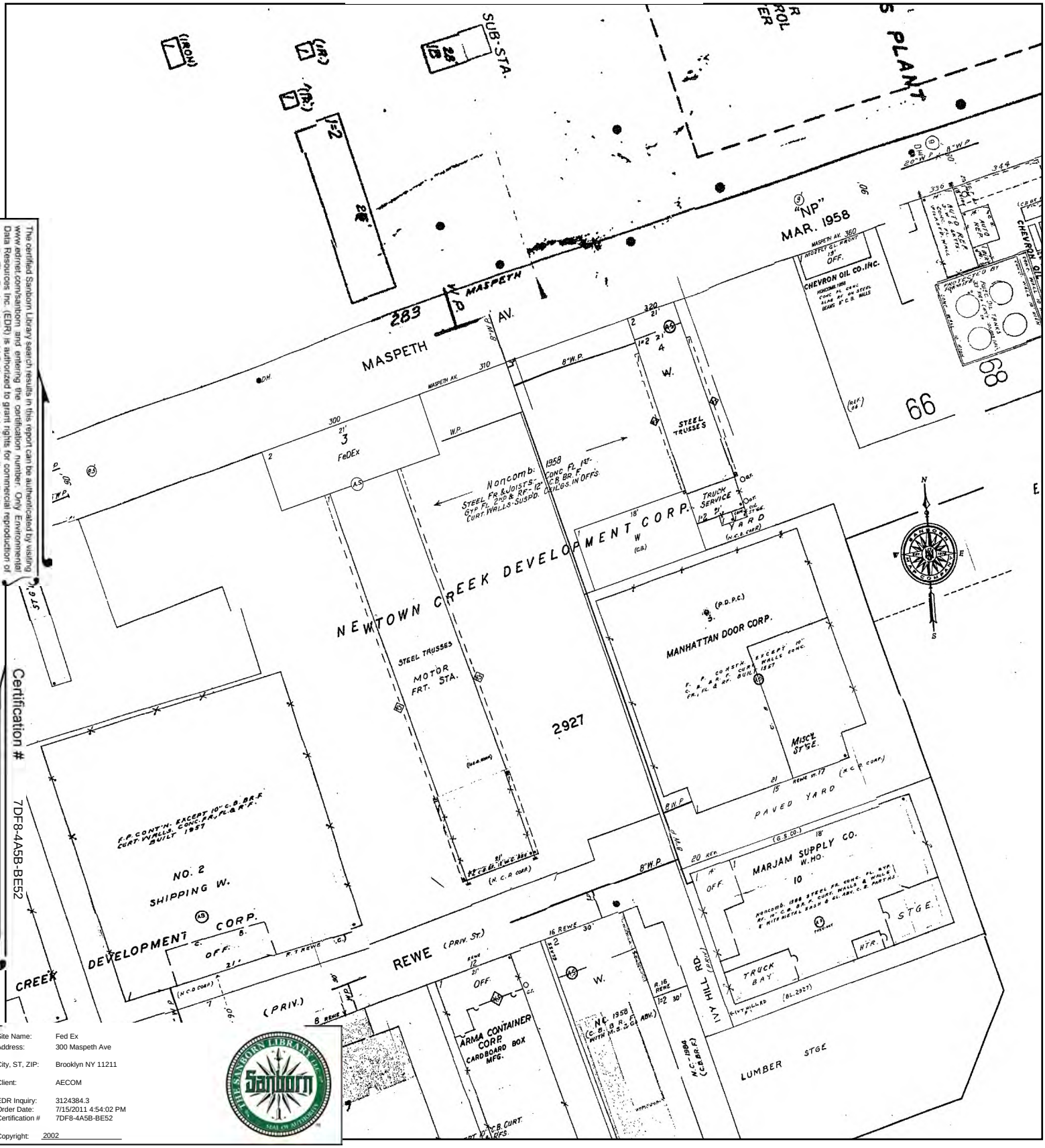

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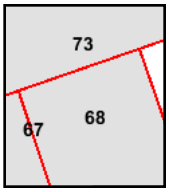

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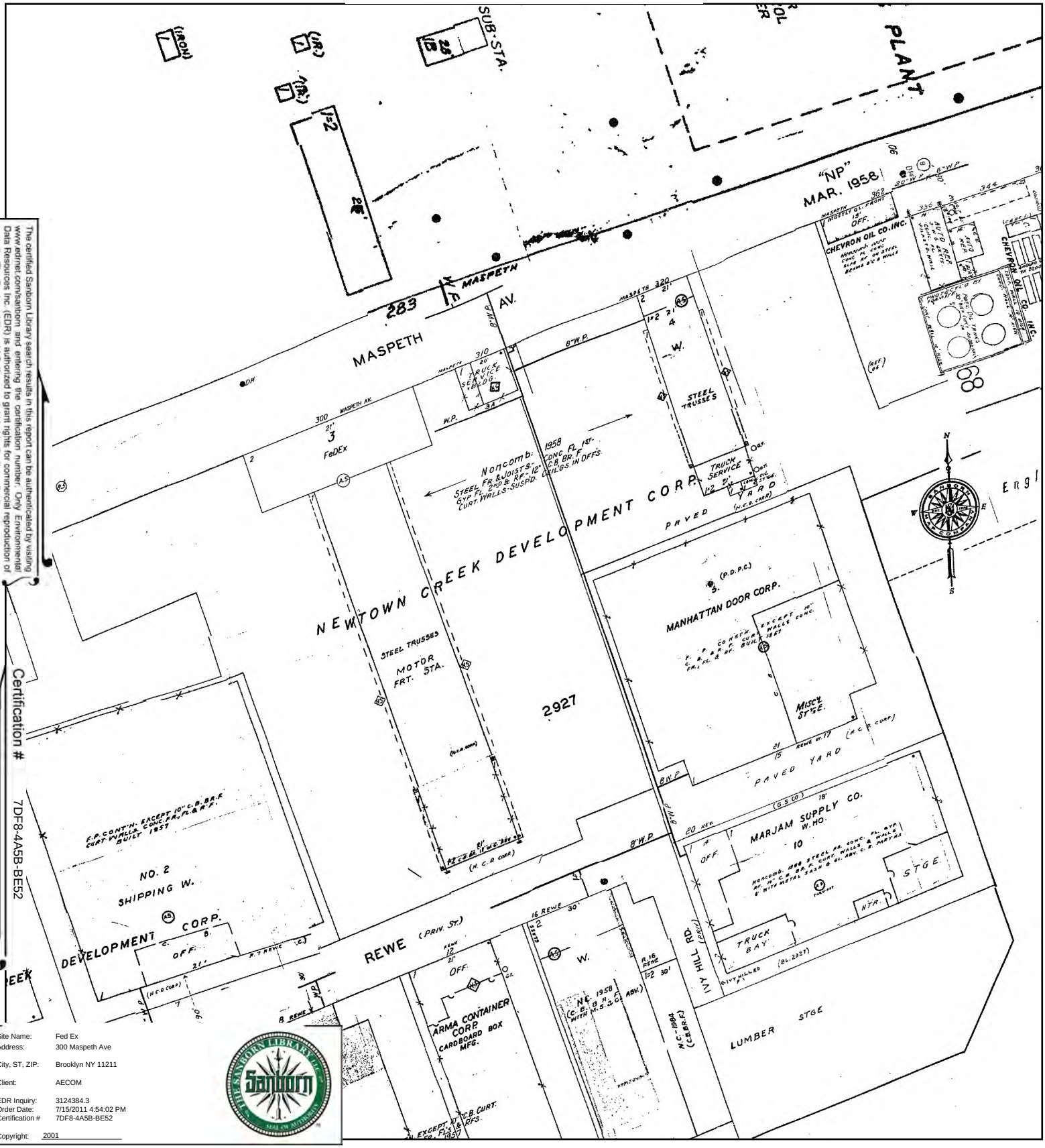

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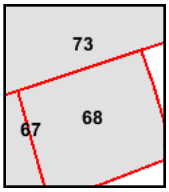

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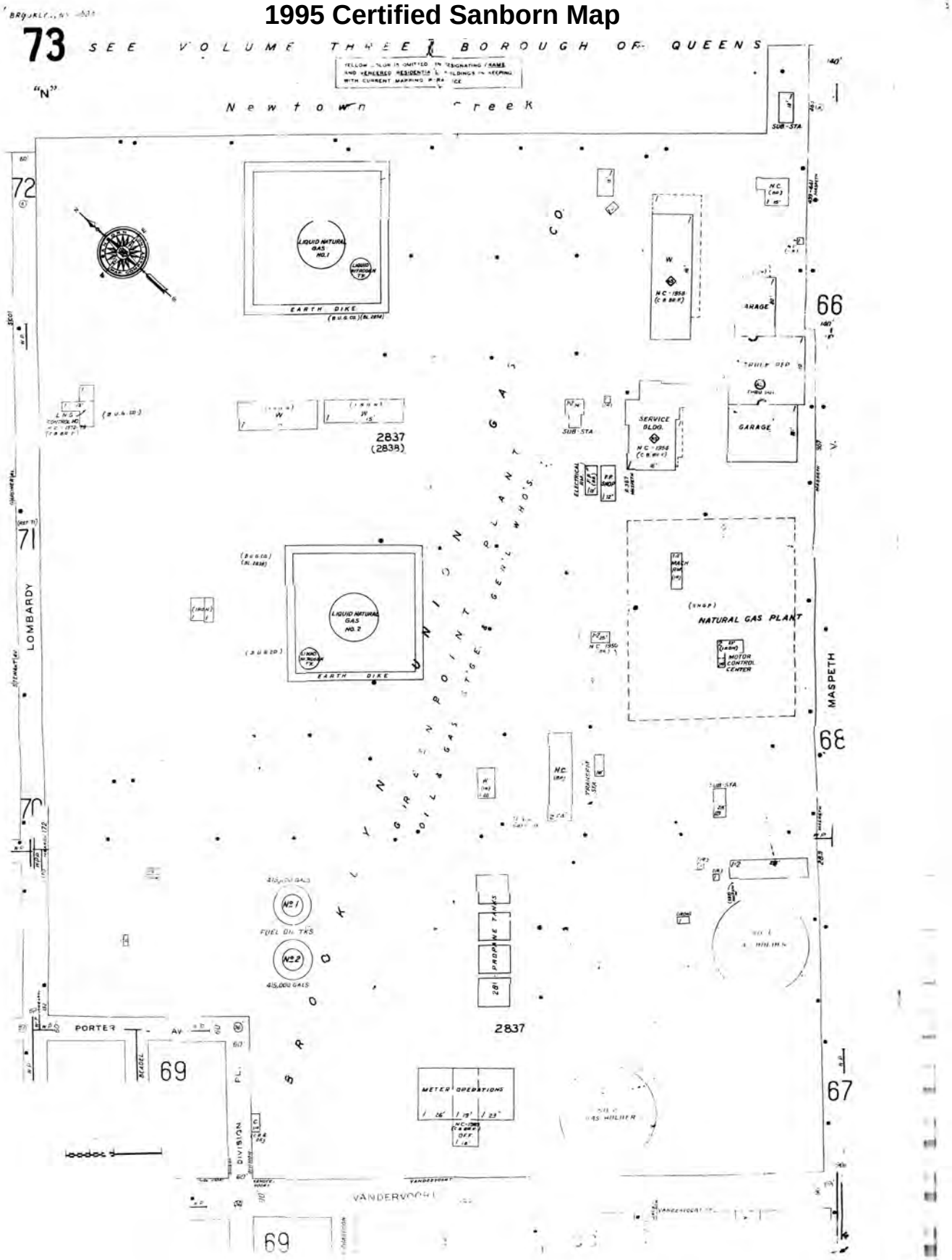

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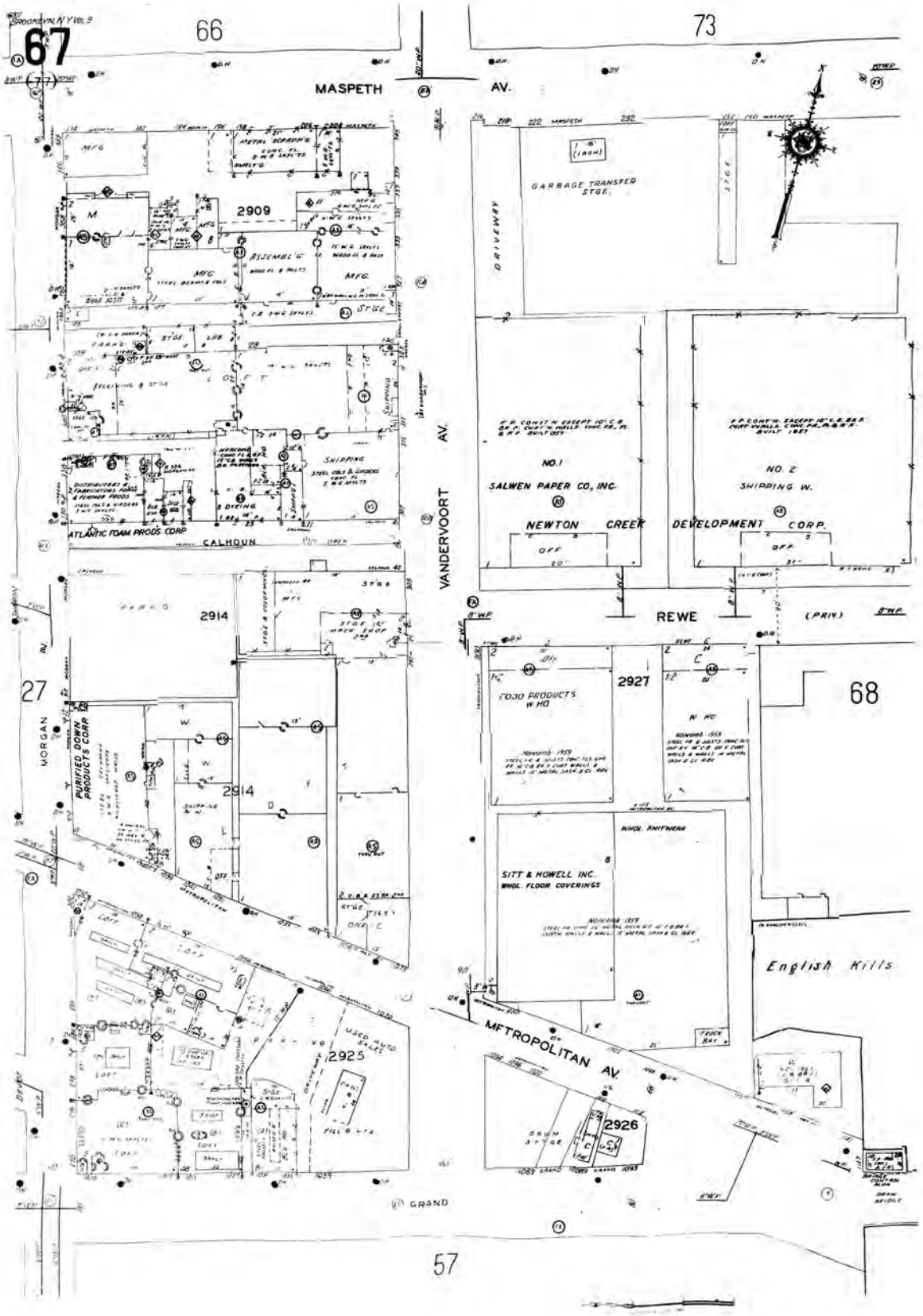

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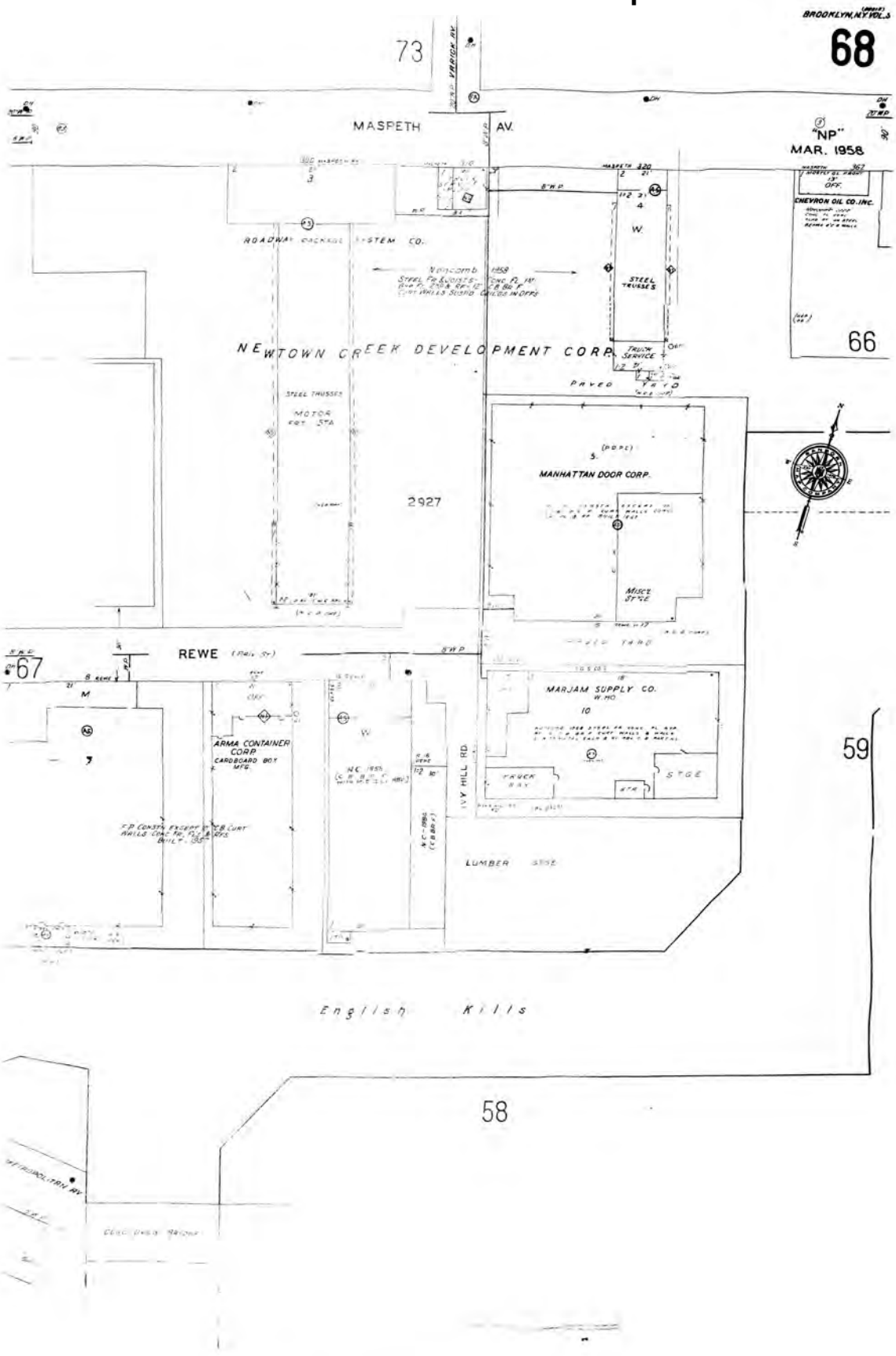

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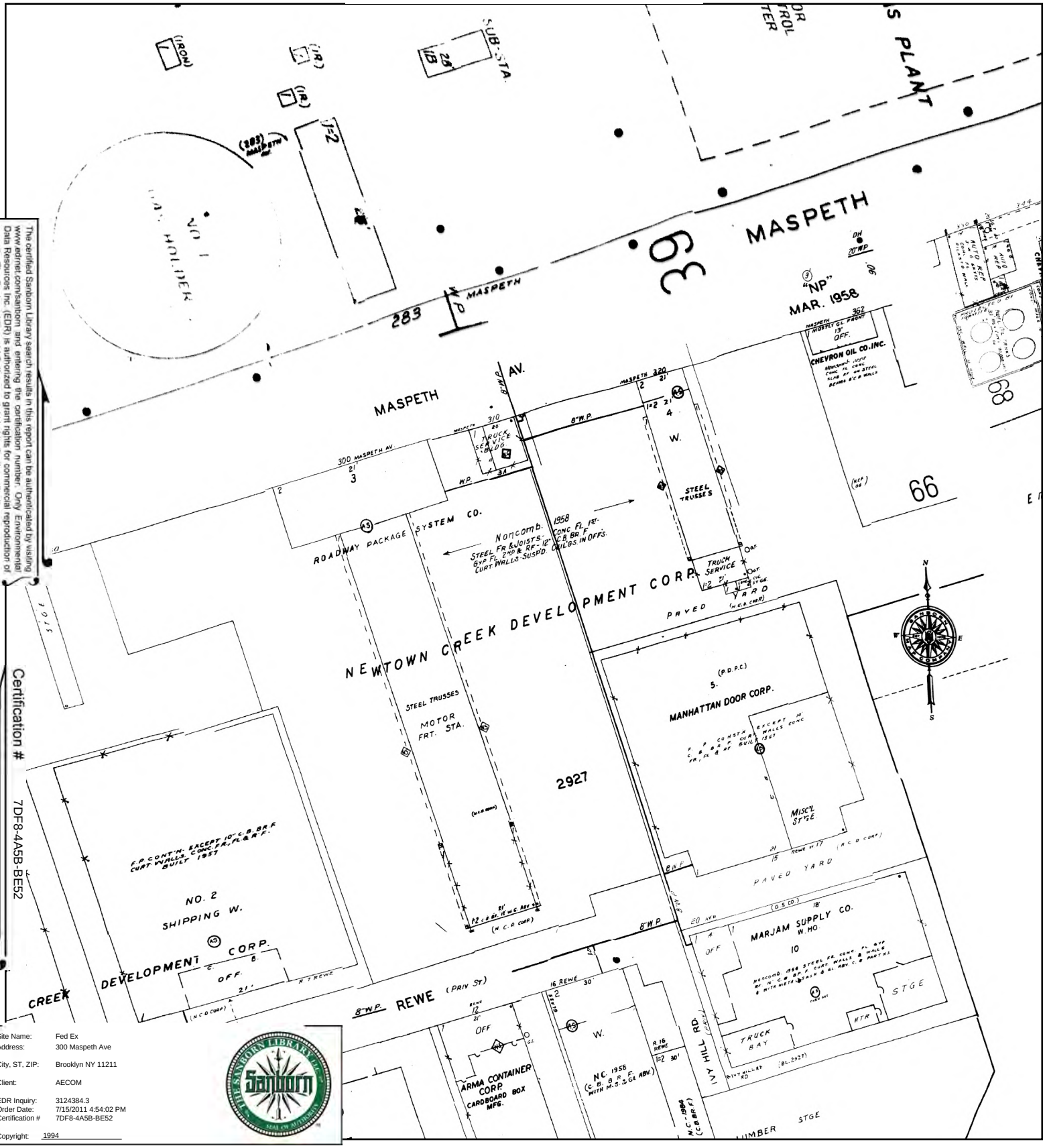

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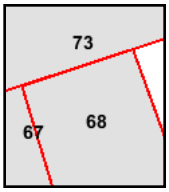

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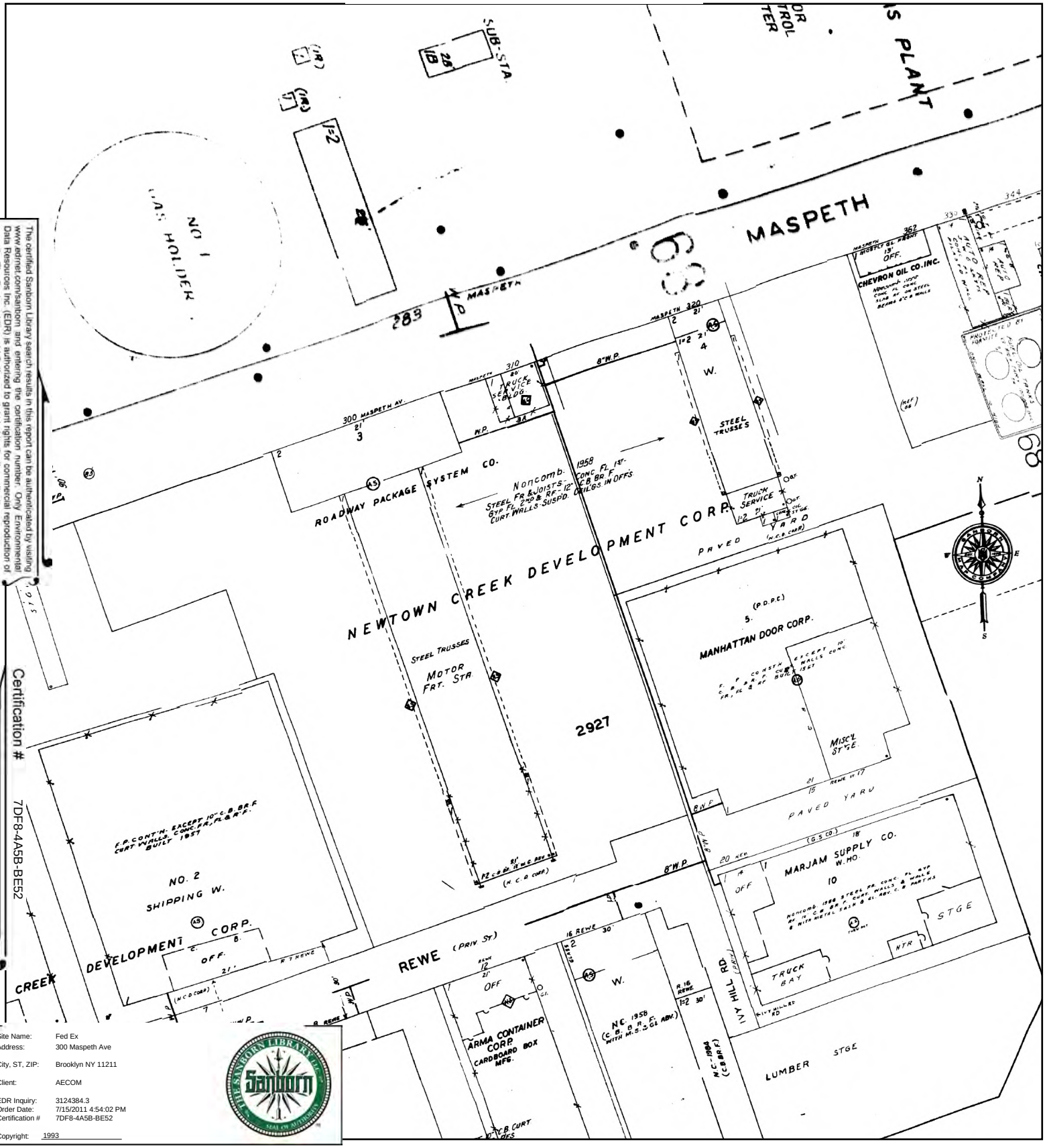

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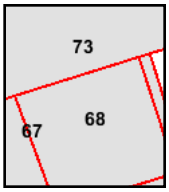

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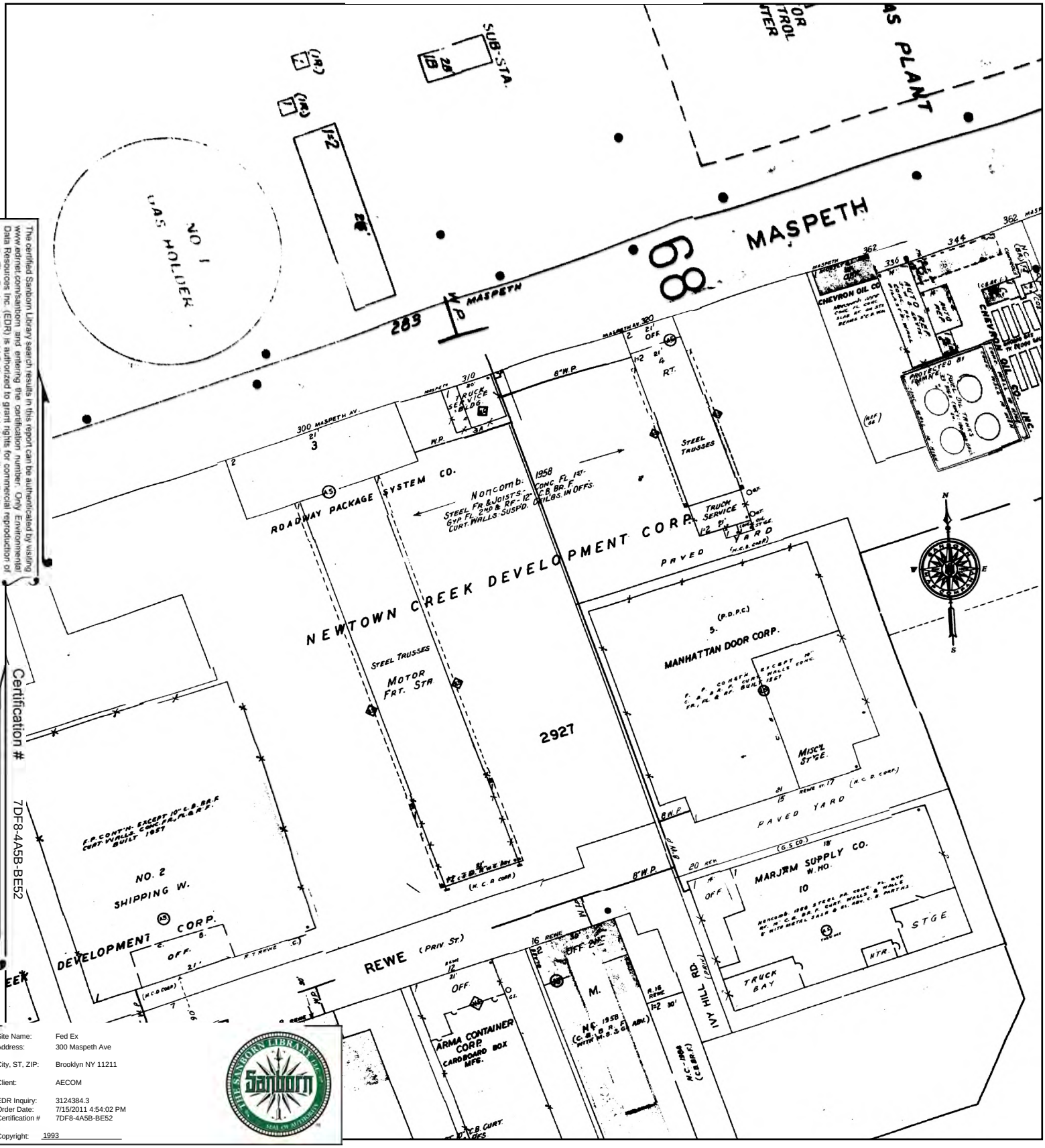

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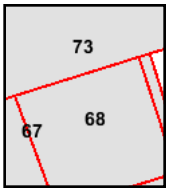

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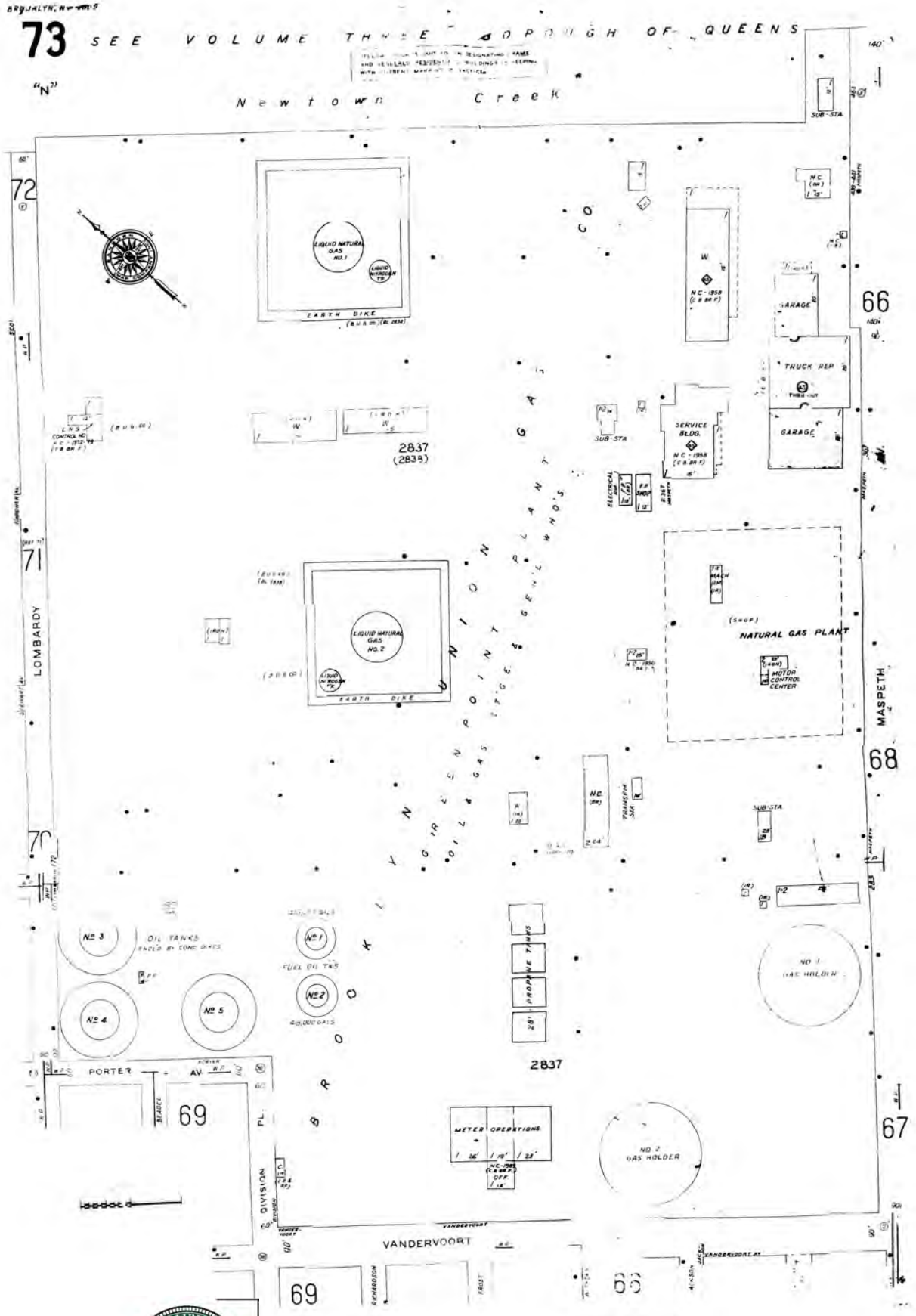

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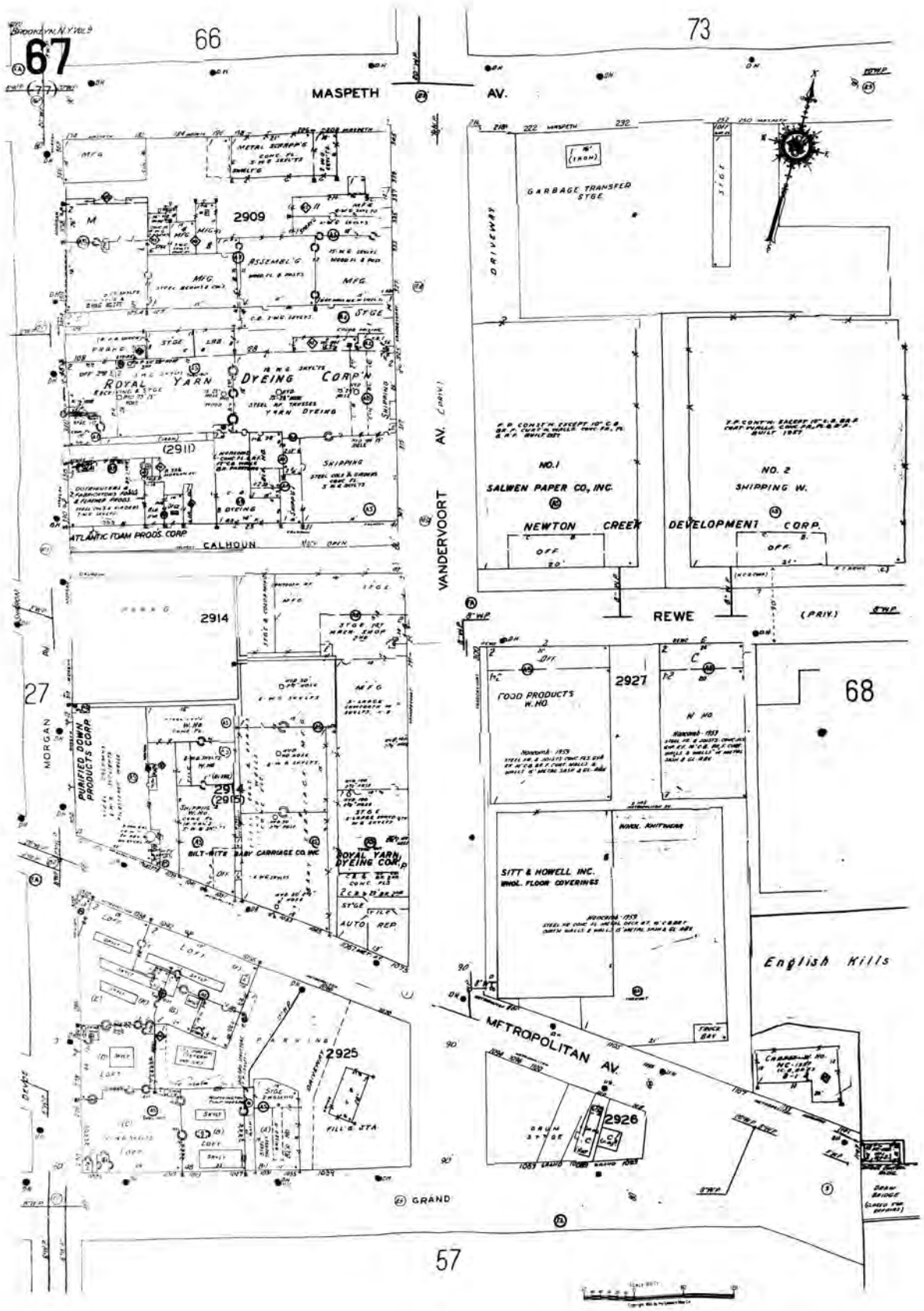

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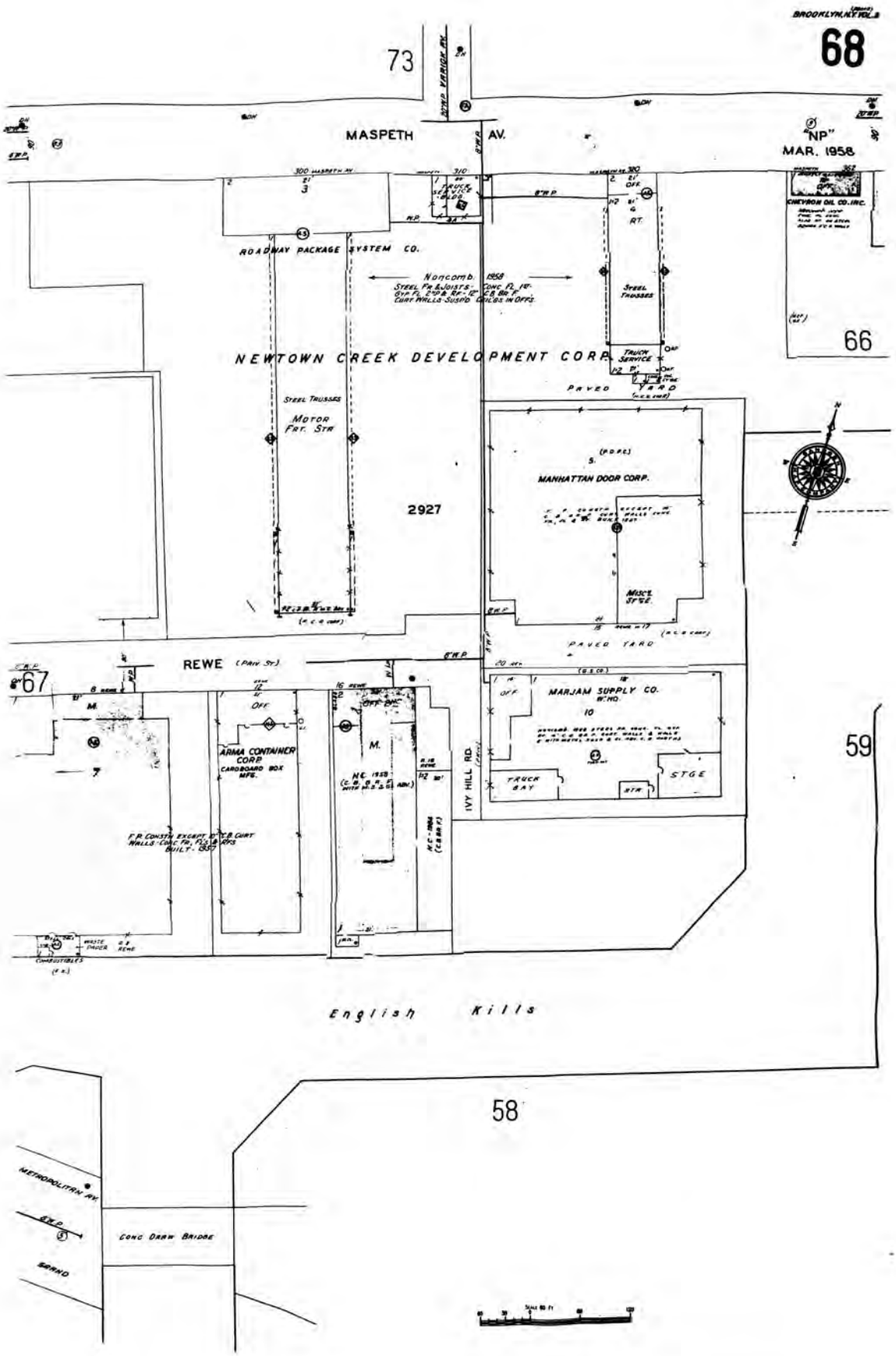

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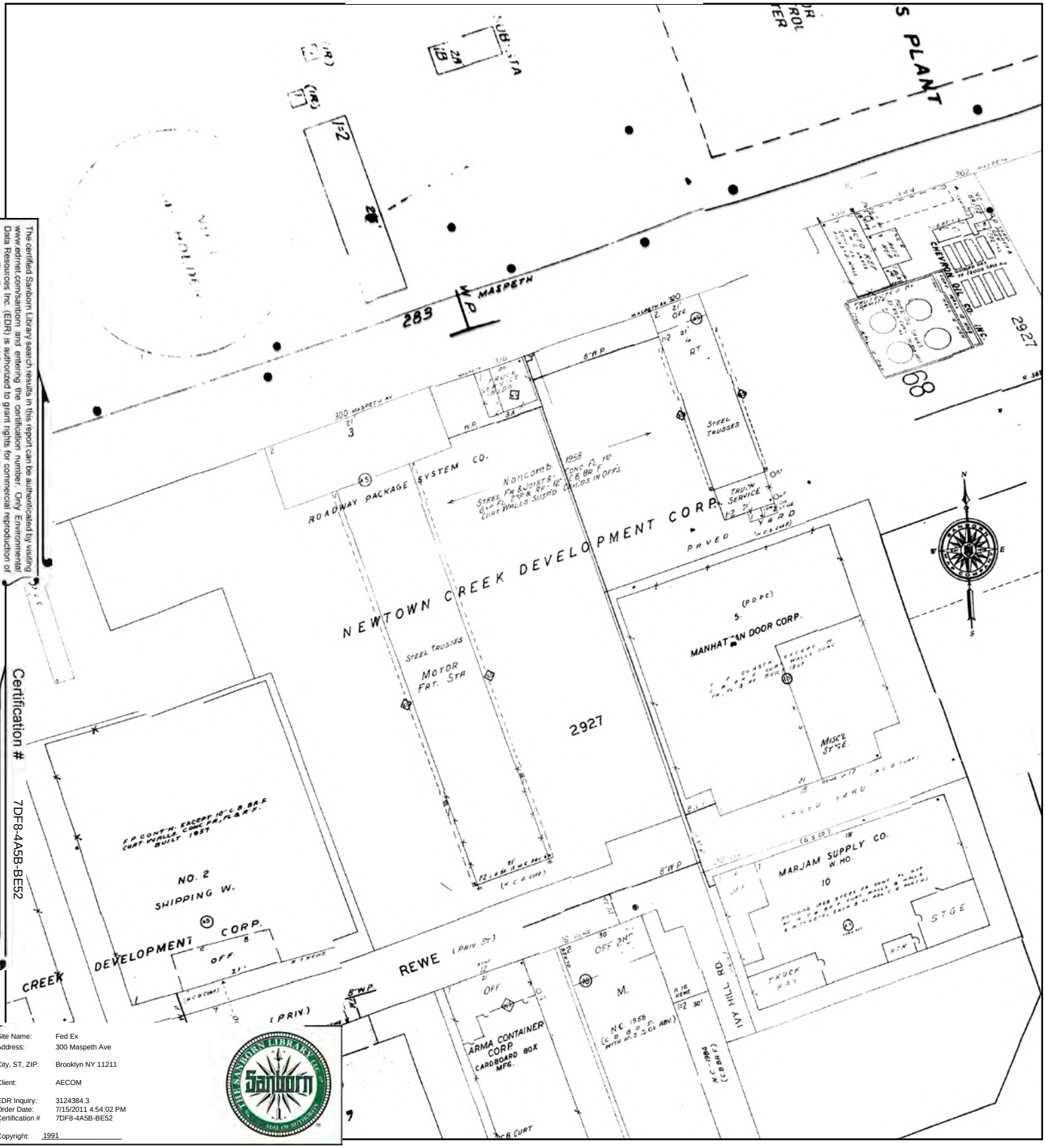

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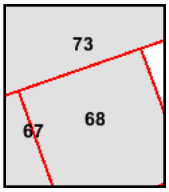

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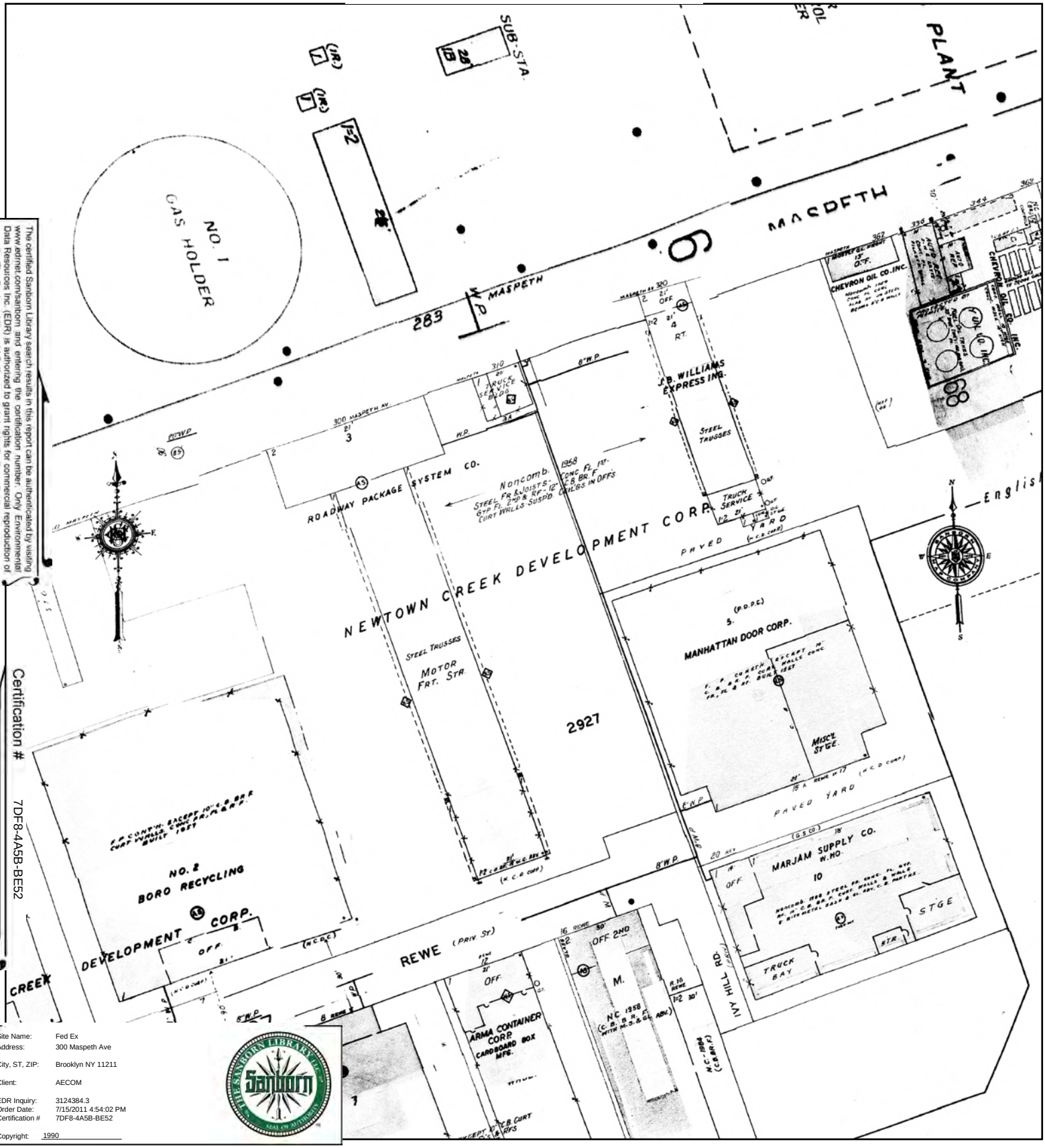

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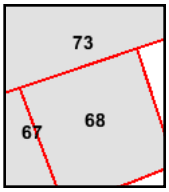

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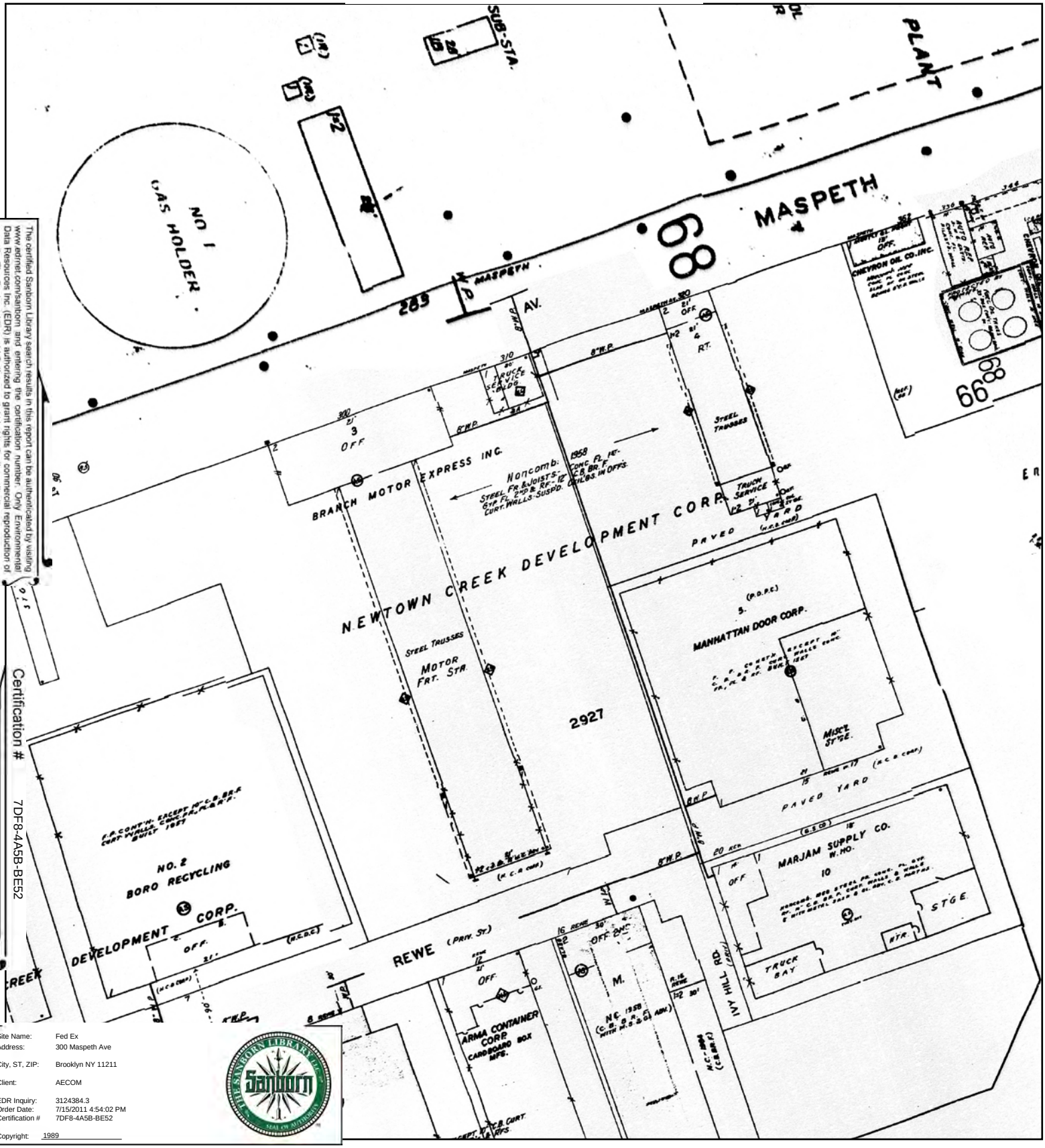

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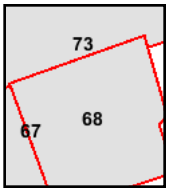

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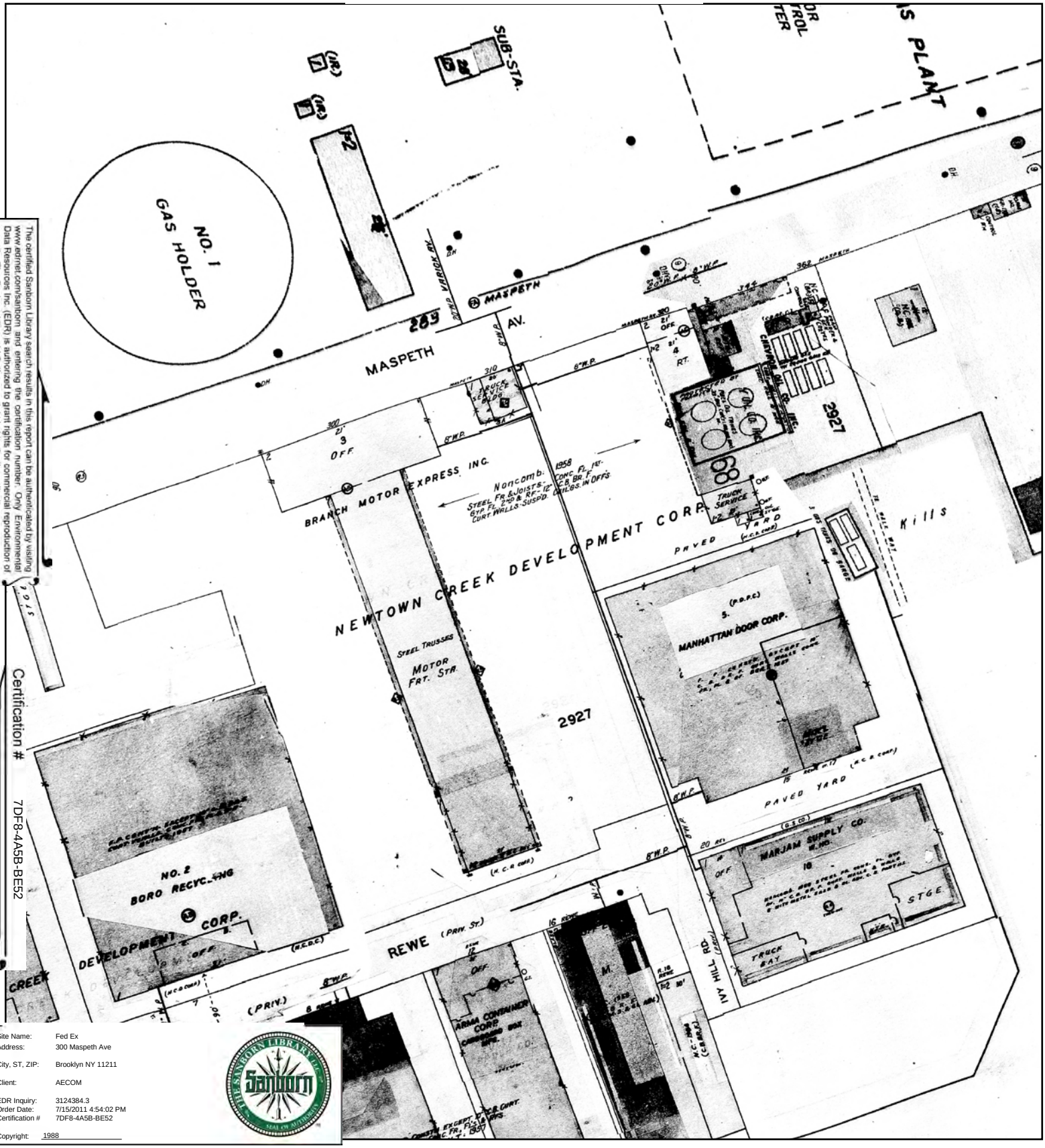

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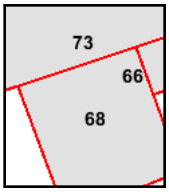

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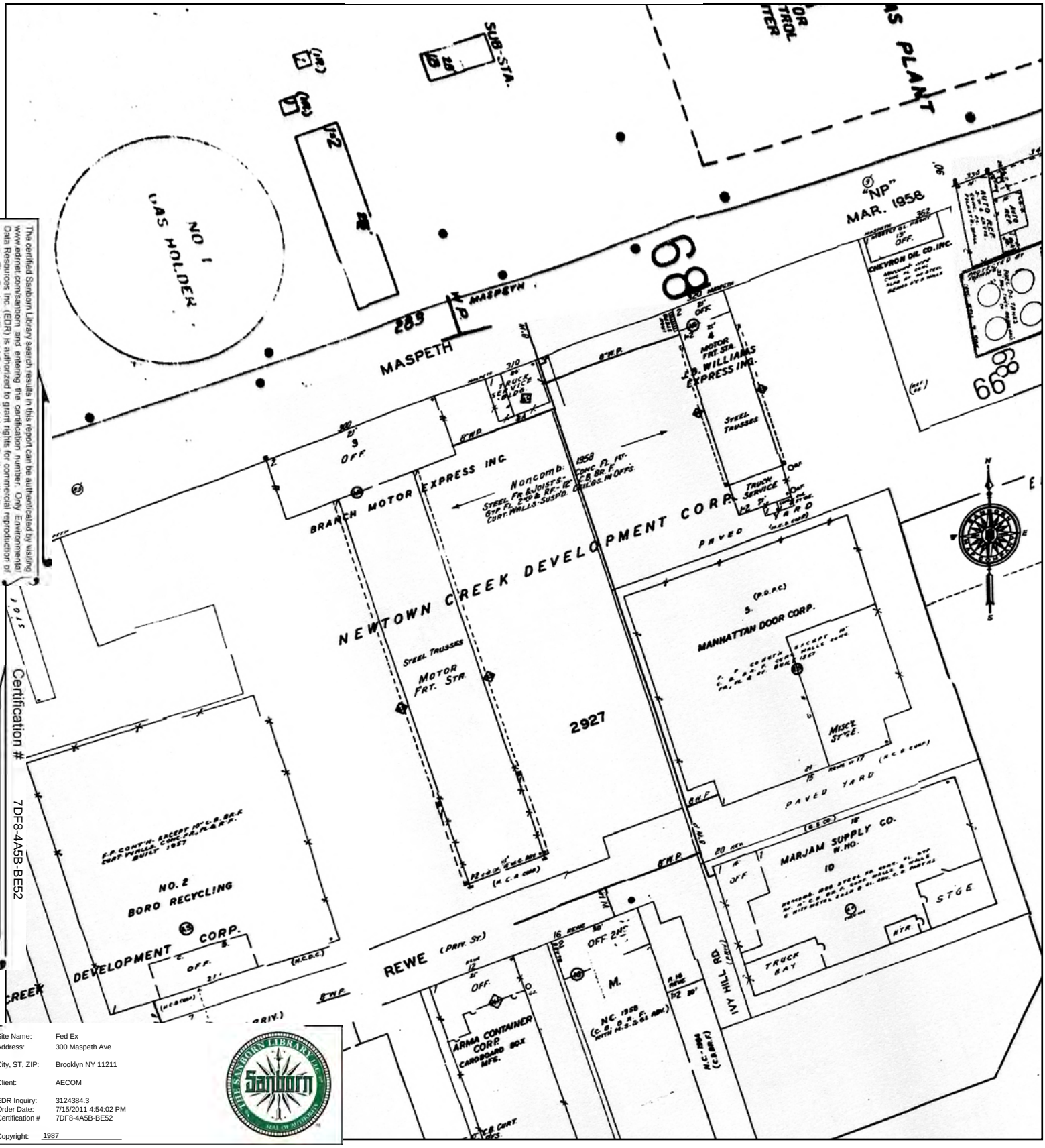

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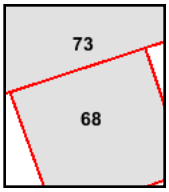

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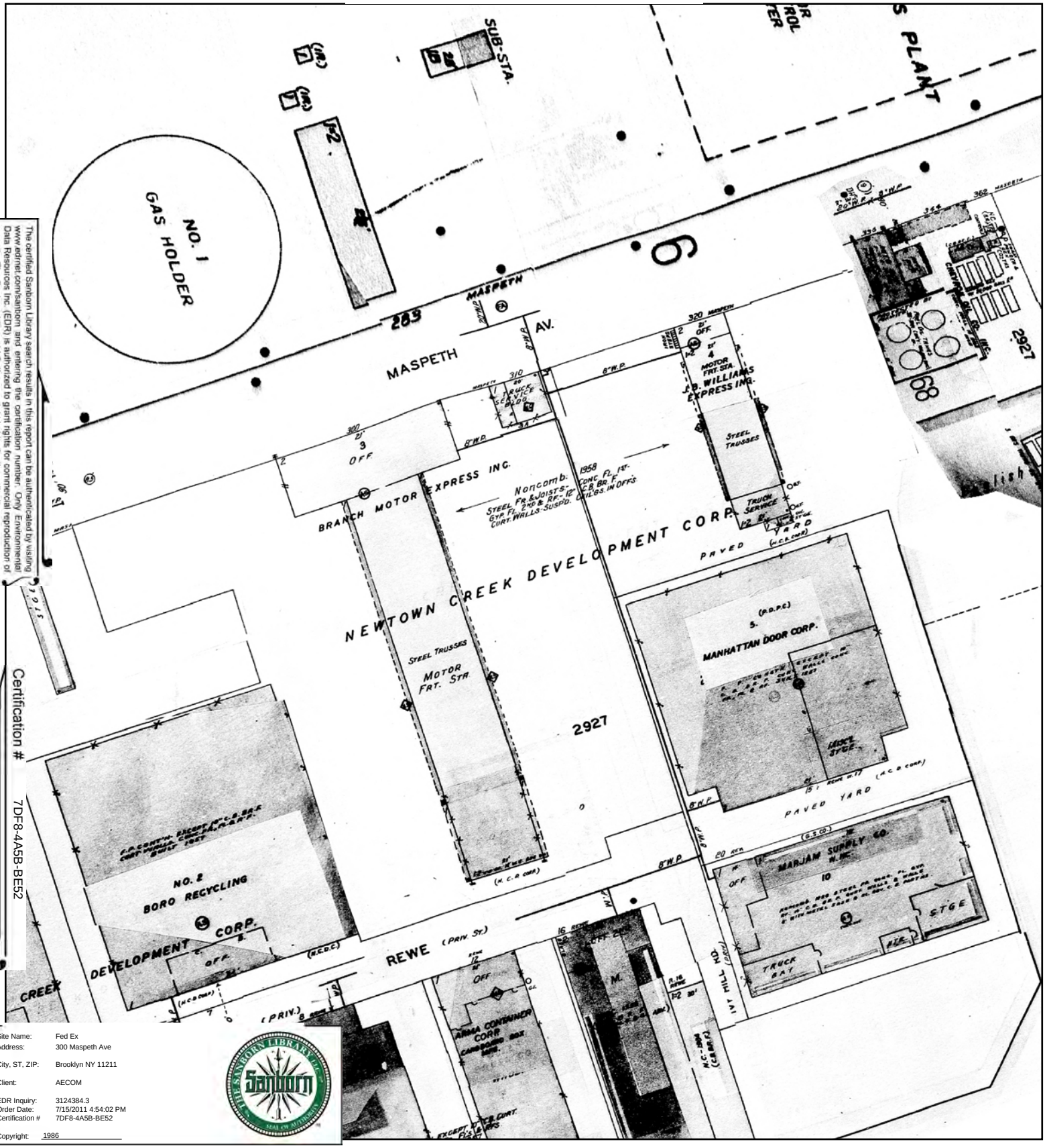

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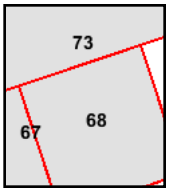

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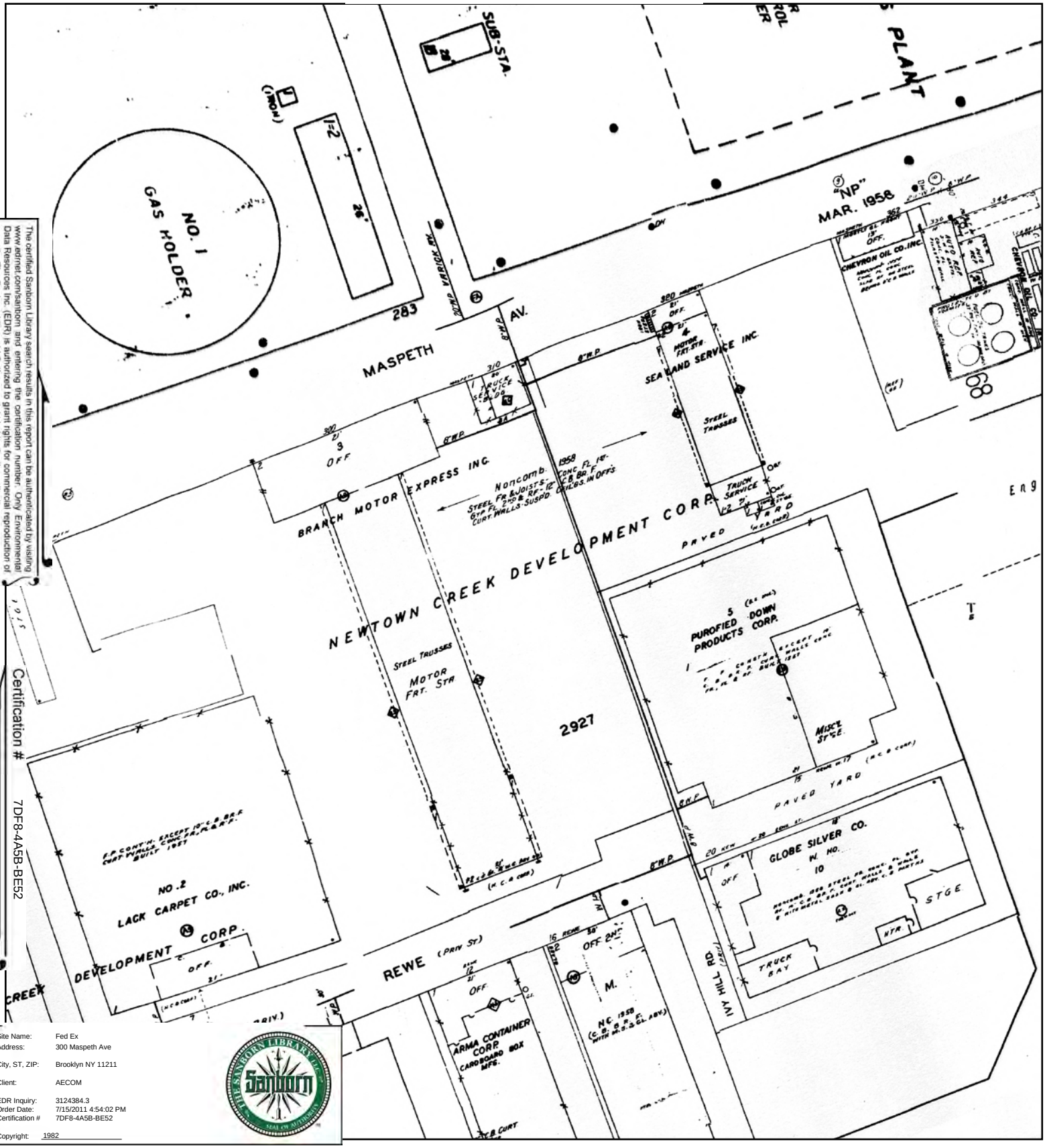

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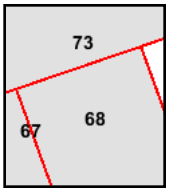

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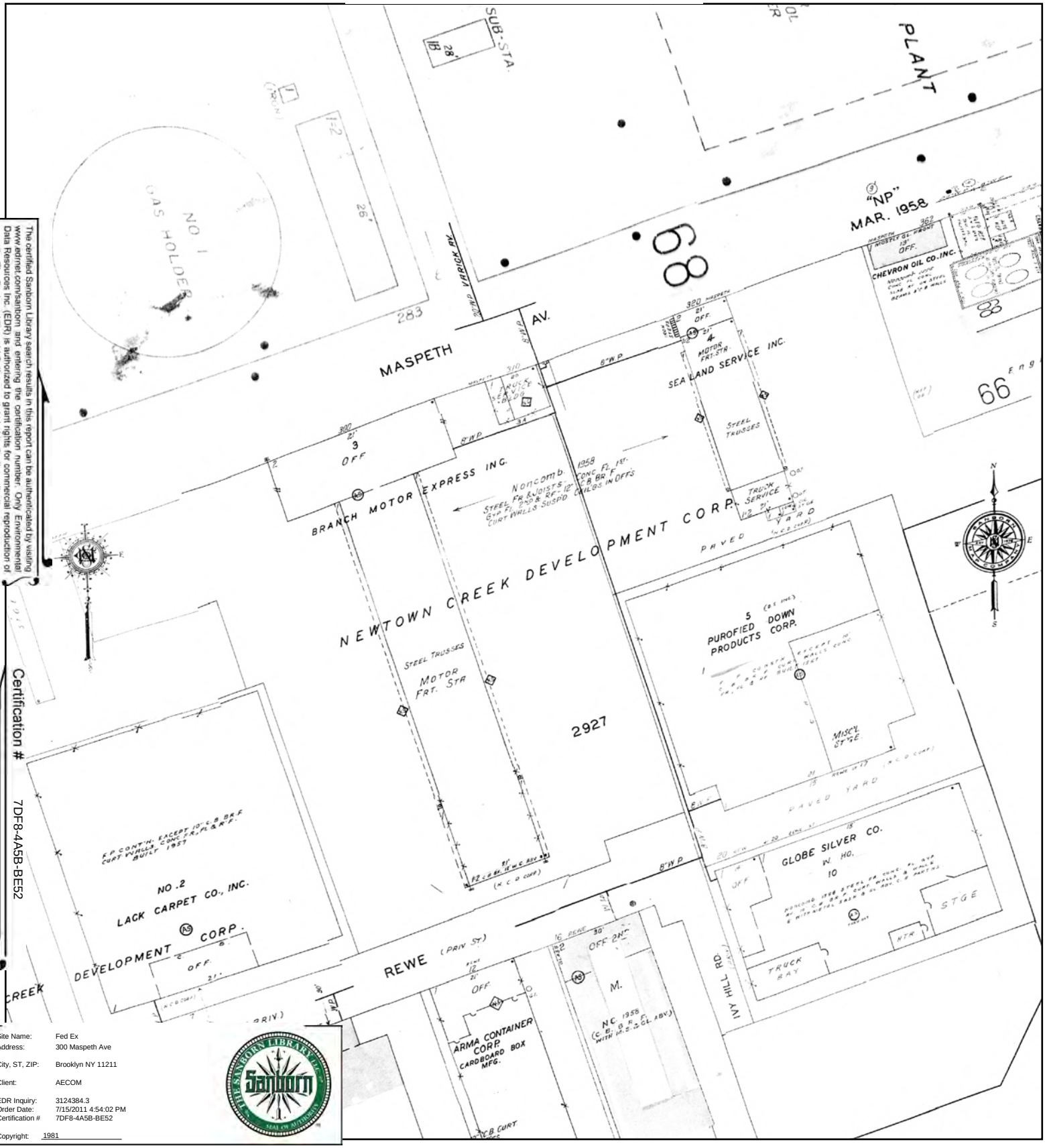
0 Feet 150 300 600

N

1981 Certified Sanborn Map



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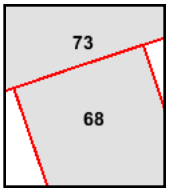

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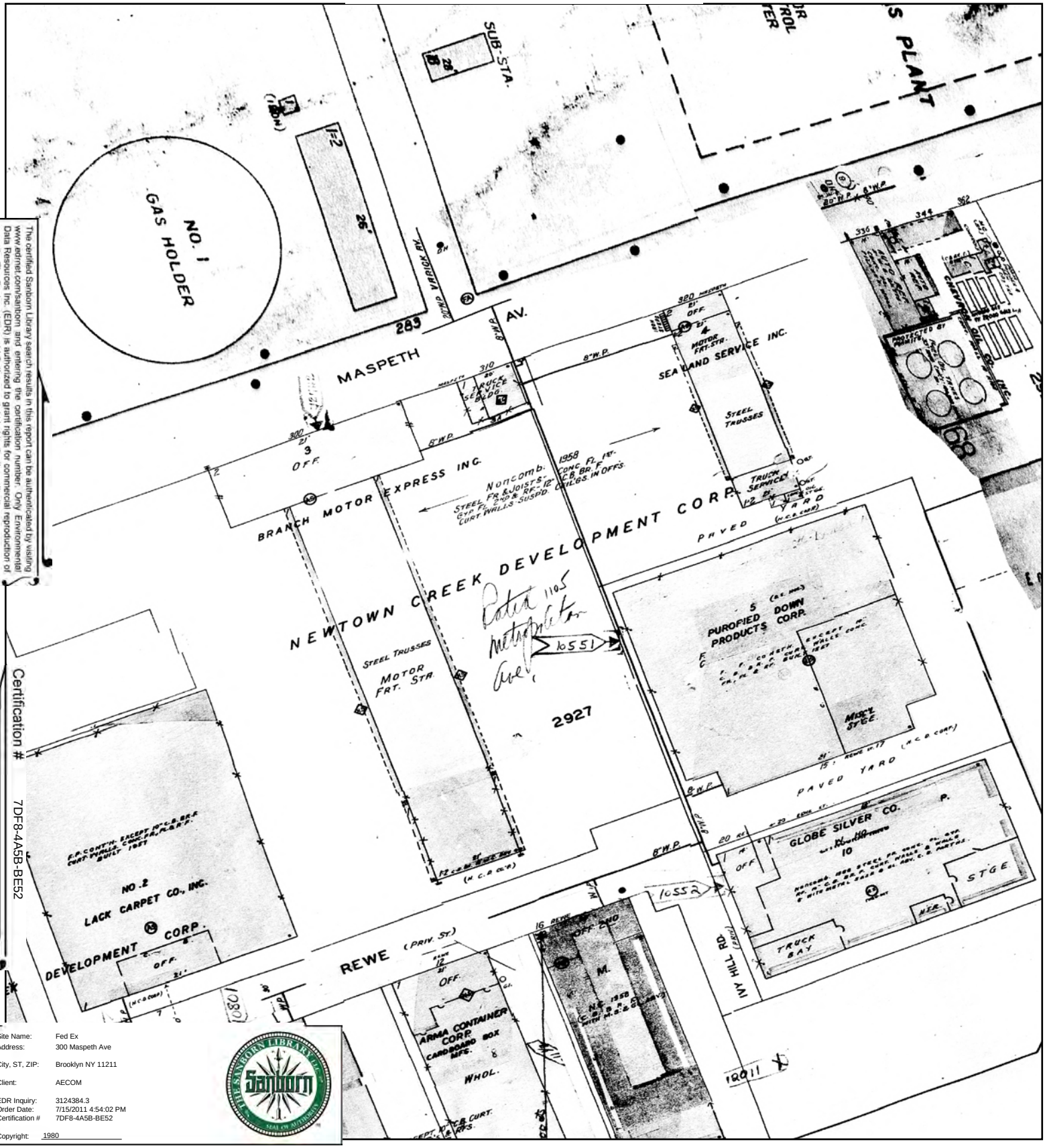

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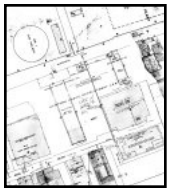

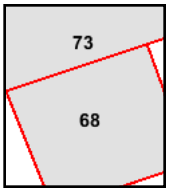

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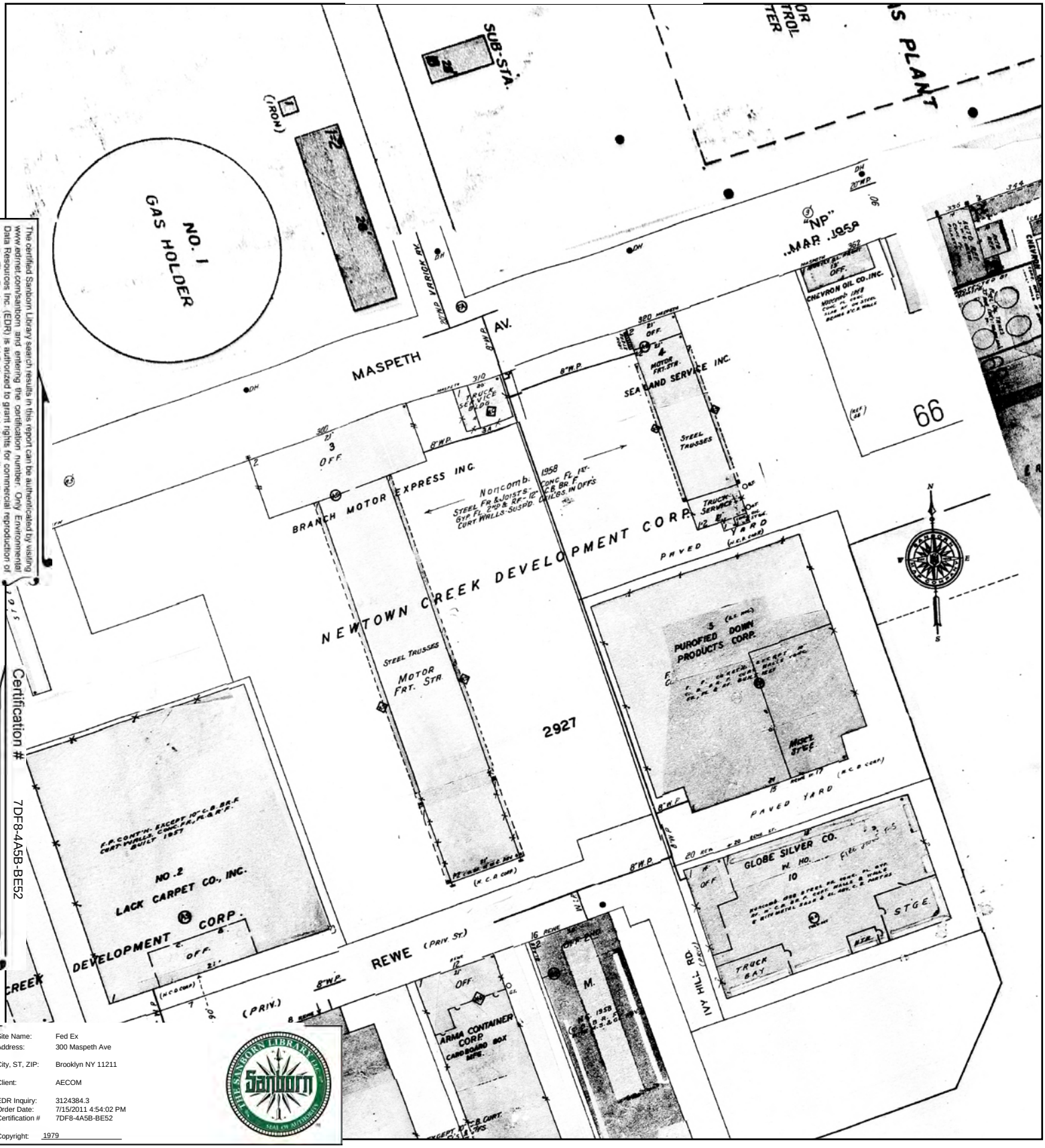
1979 Certified Sanborn Map



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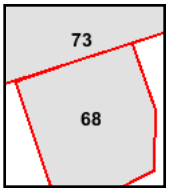

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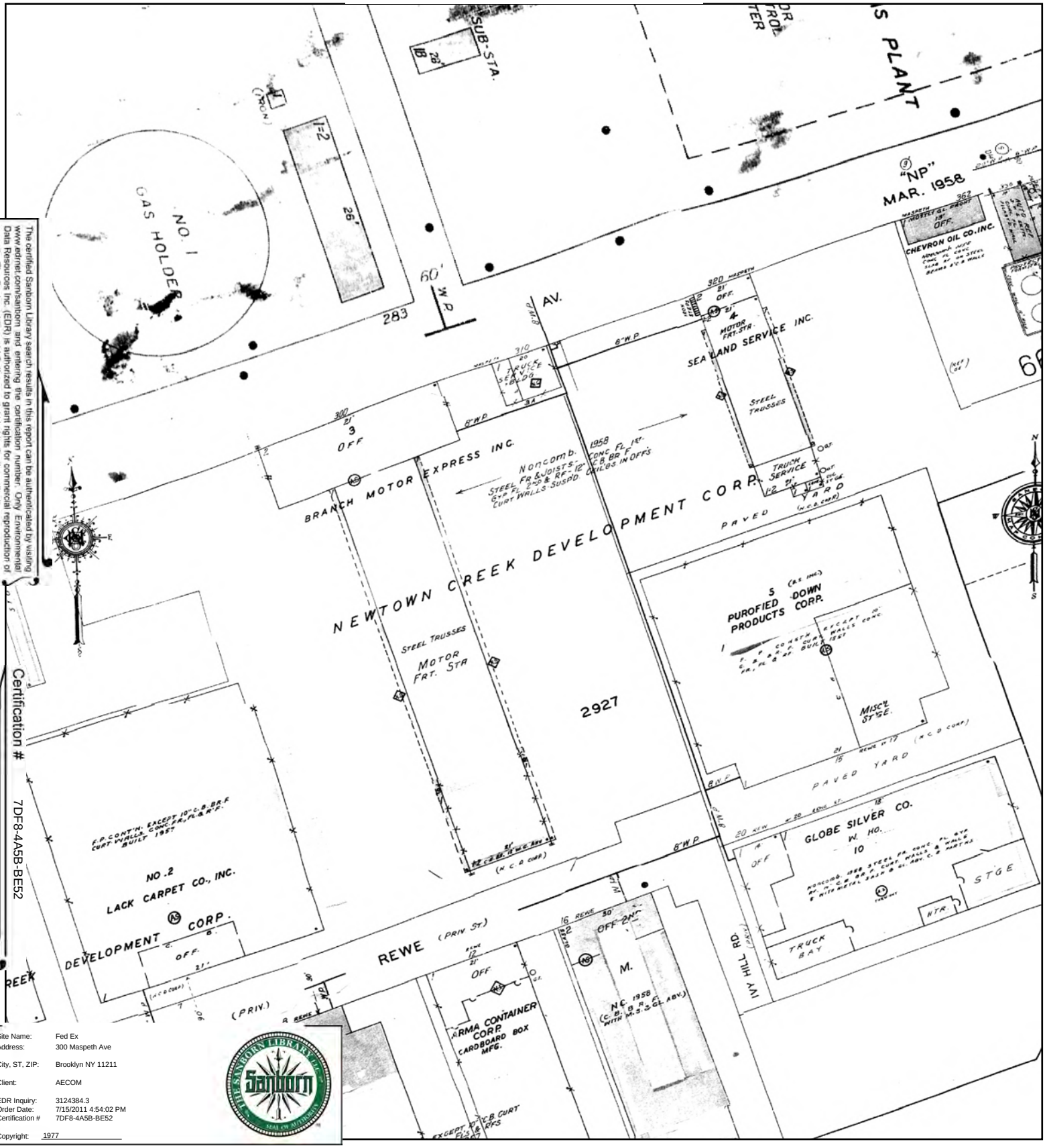
1977 Certified Sanborn Map



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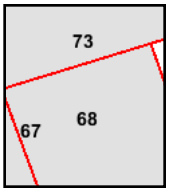

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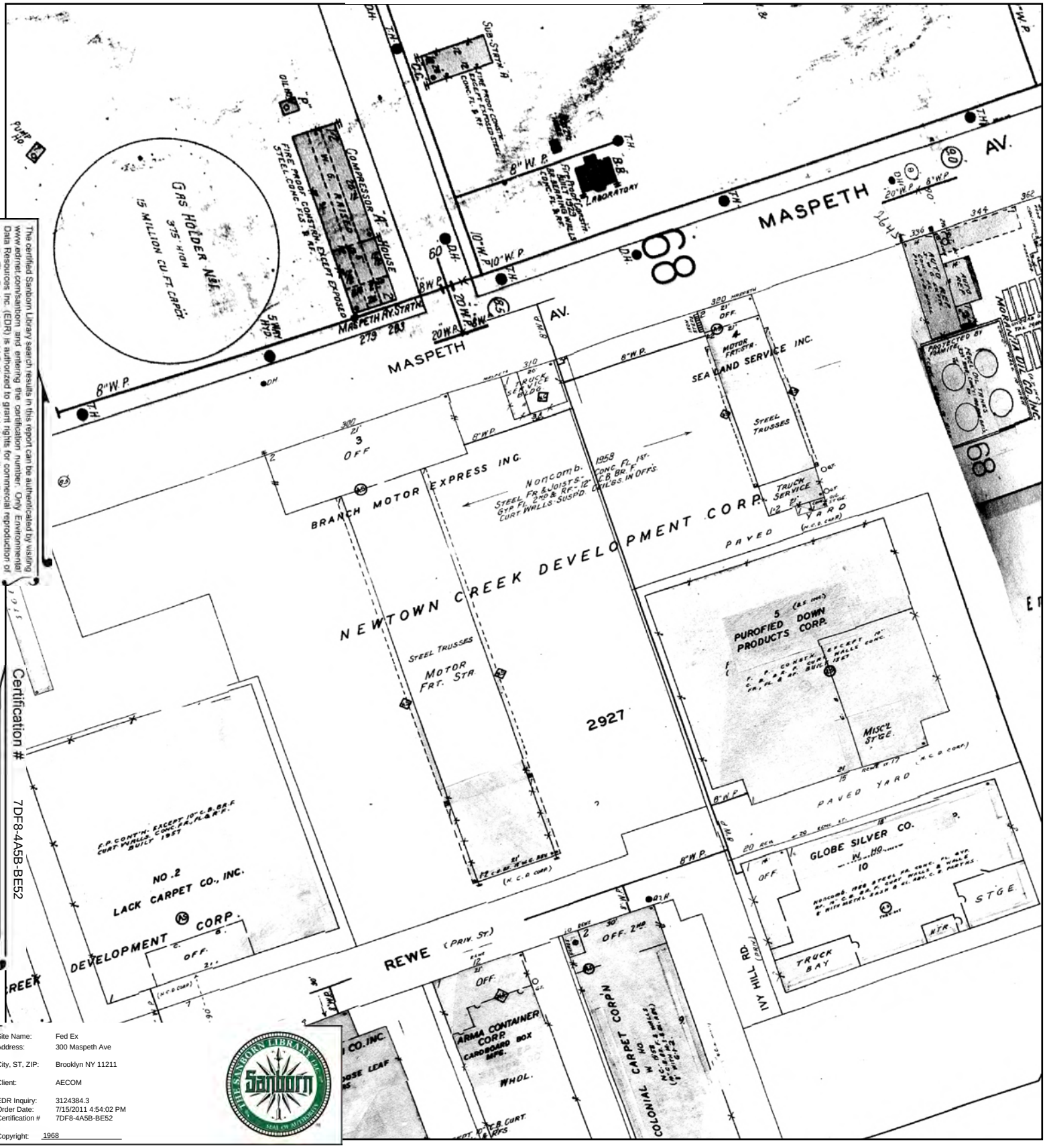
1968 Certified Sanborn Map



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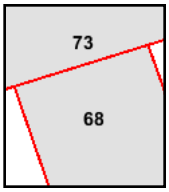

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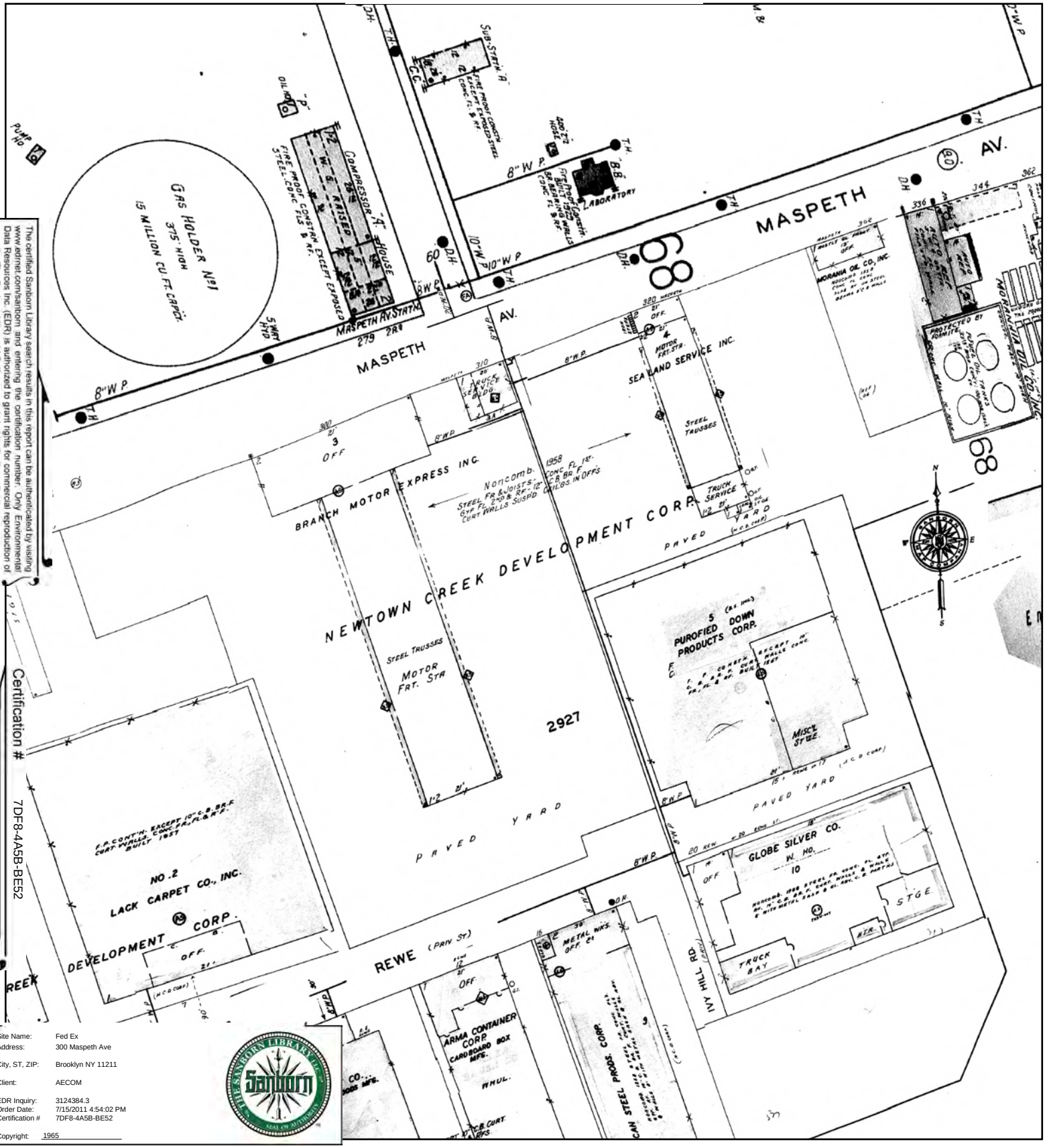
1965 Certified Sanborn Map



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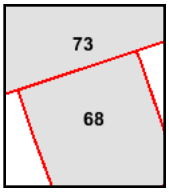

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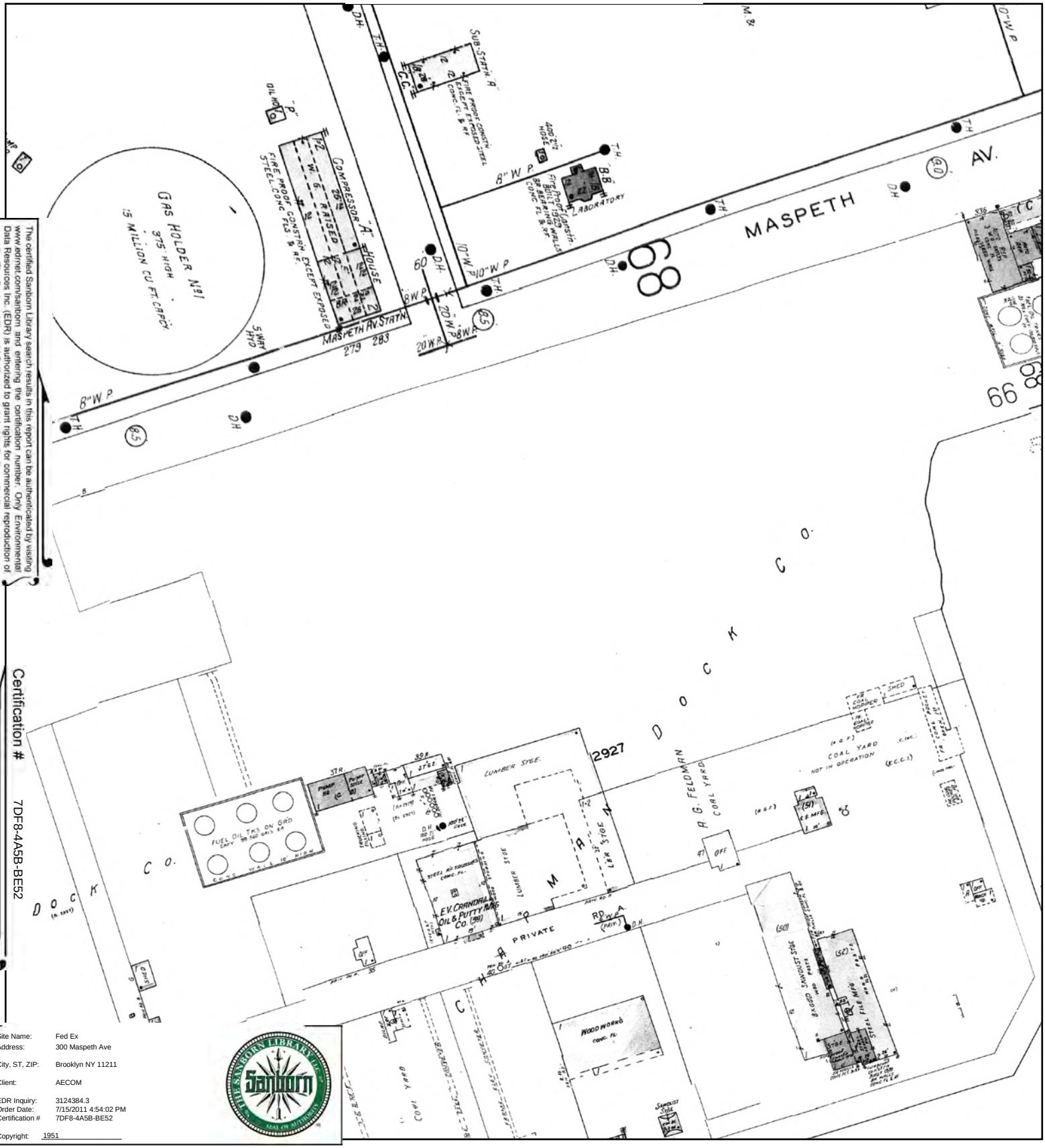
1951 Certified Sanborn Map



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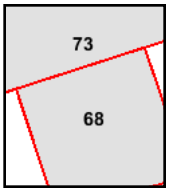

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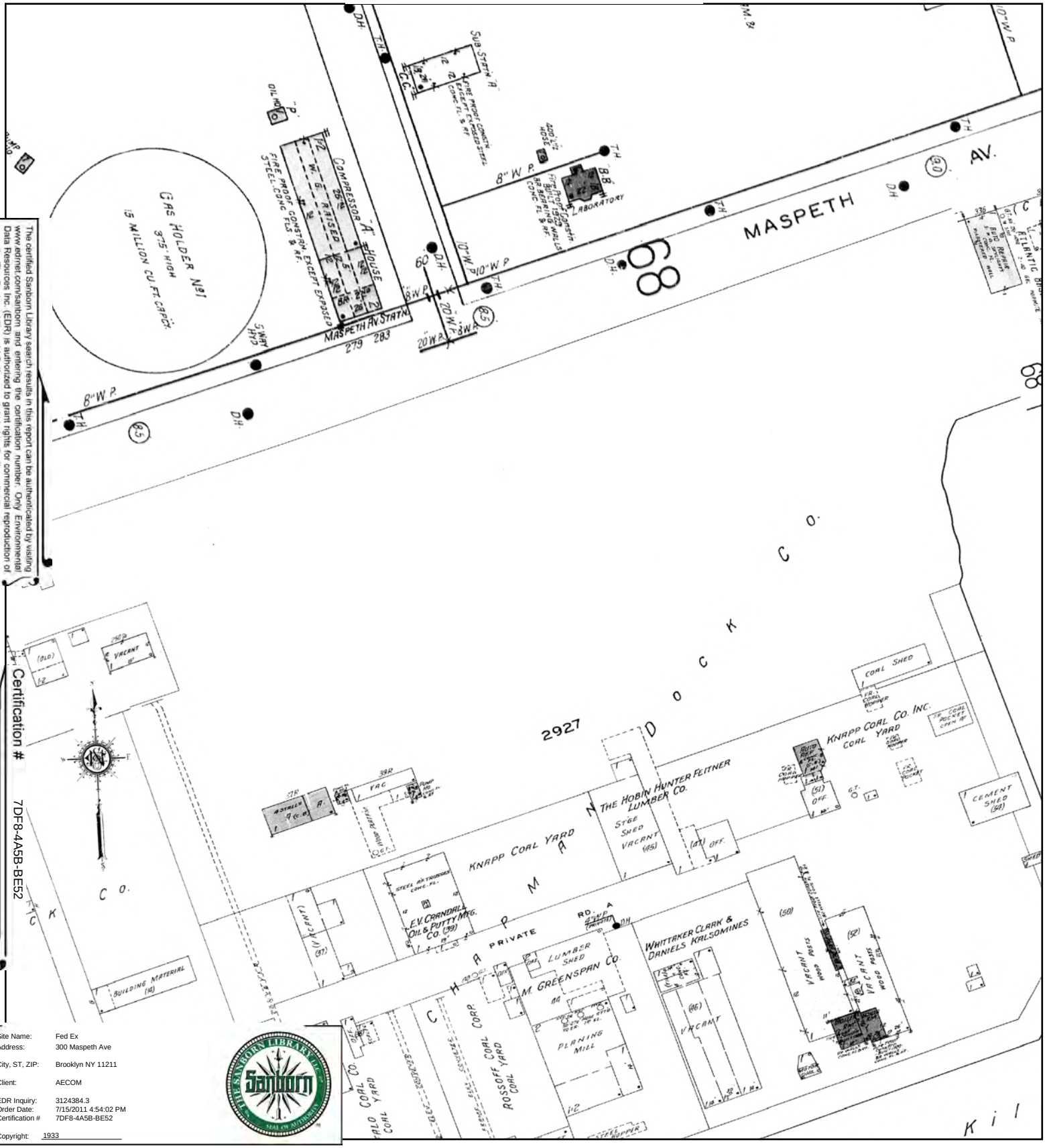
1933 Certified Sanborn Map



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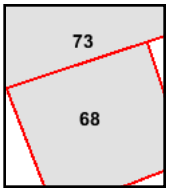

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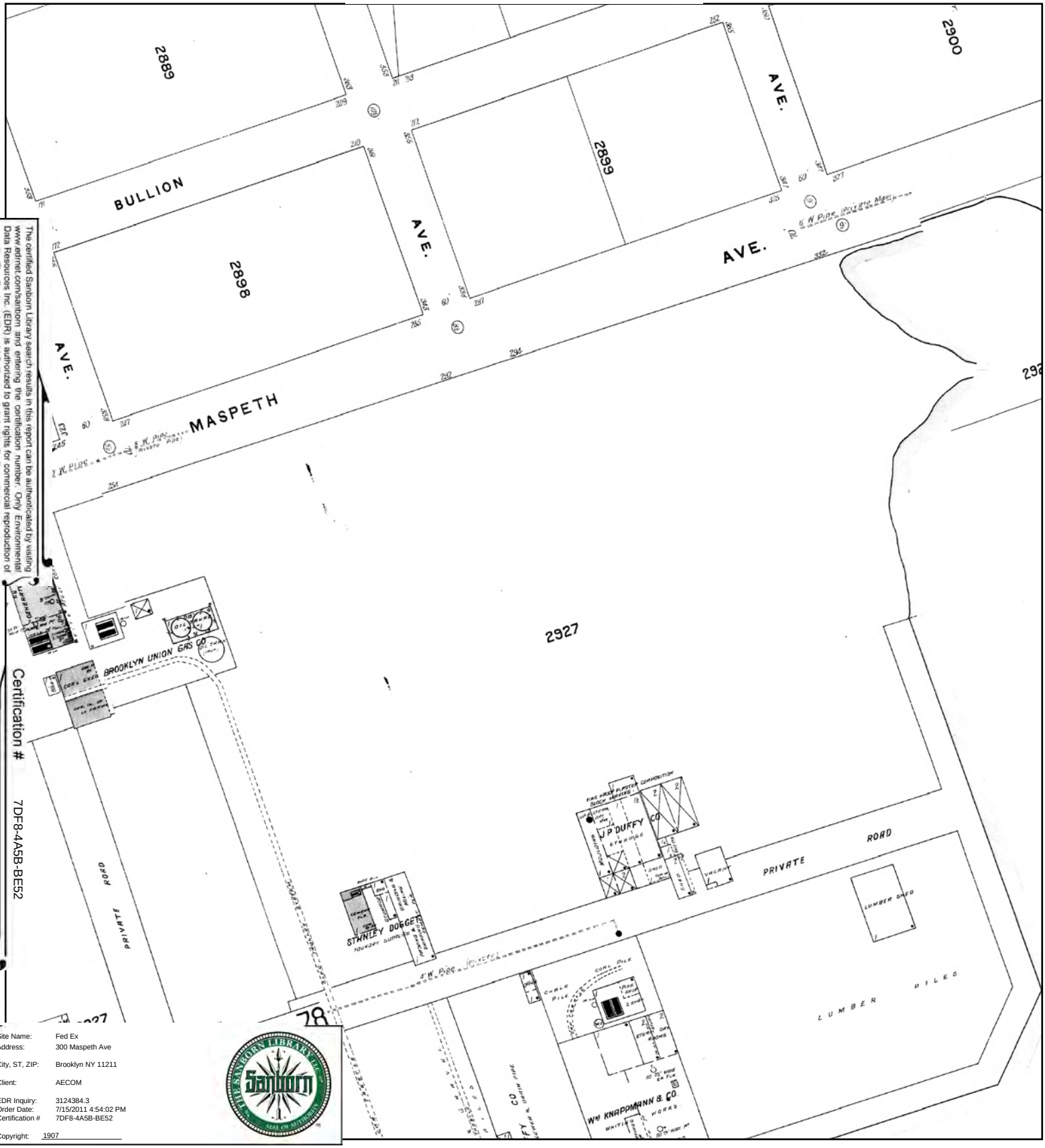
1907 Certified Sanborn Map



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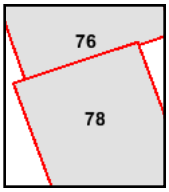

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Volume 9, Sheet 78

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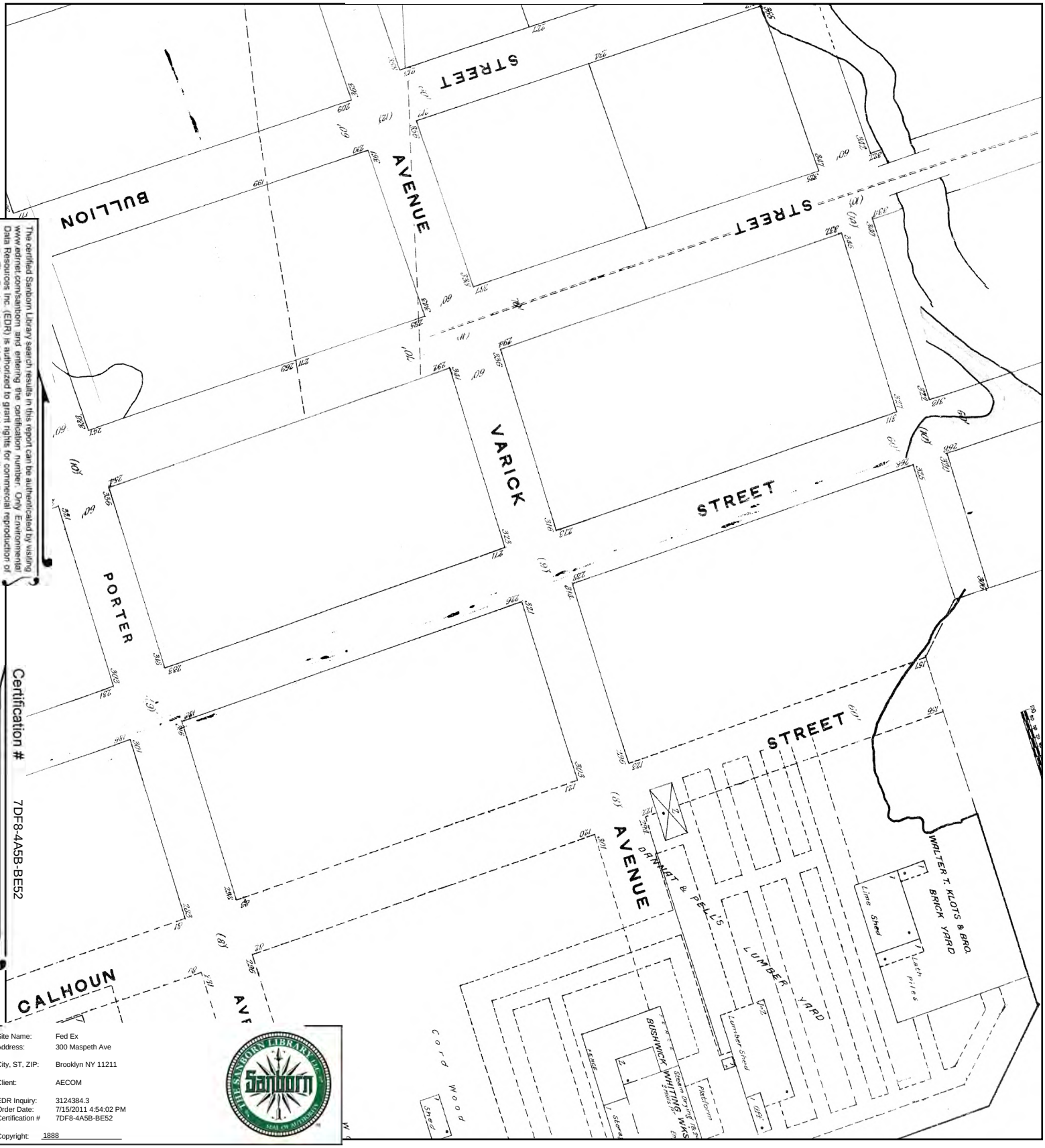
1888 Certified Sanborn Map



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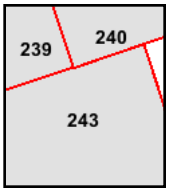

Volume 9, Sheet 239
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Inquiry Number: 2278472.1s
July 29, 2008

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EDR Inquiry # 2278472.1s

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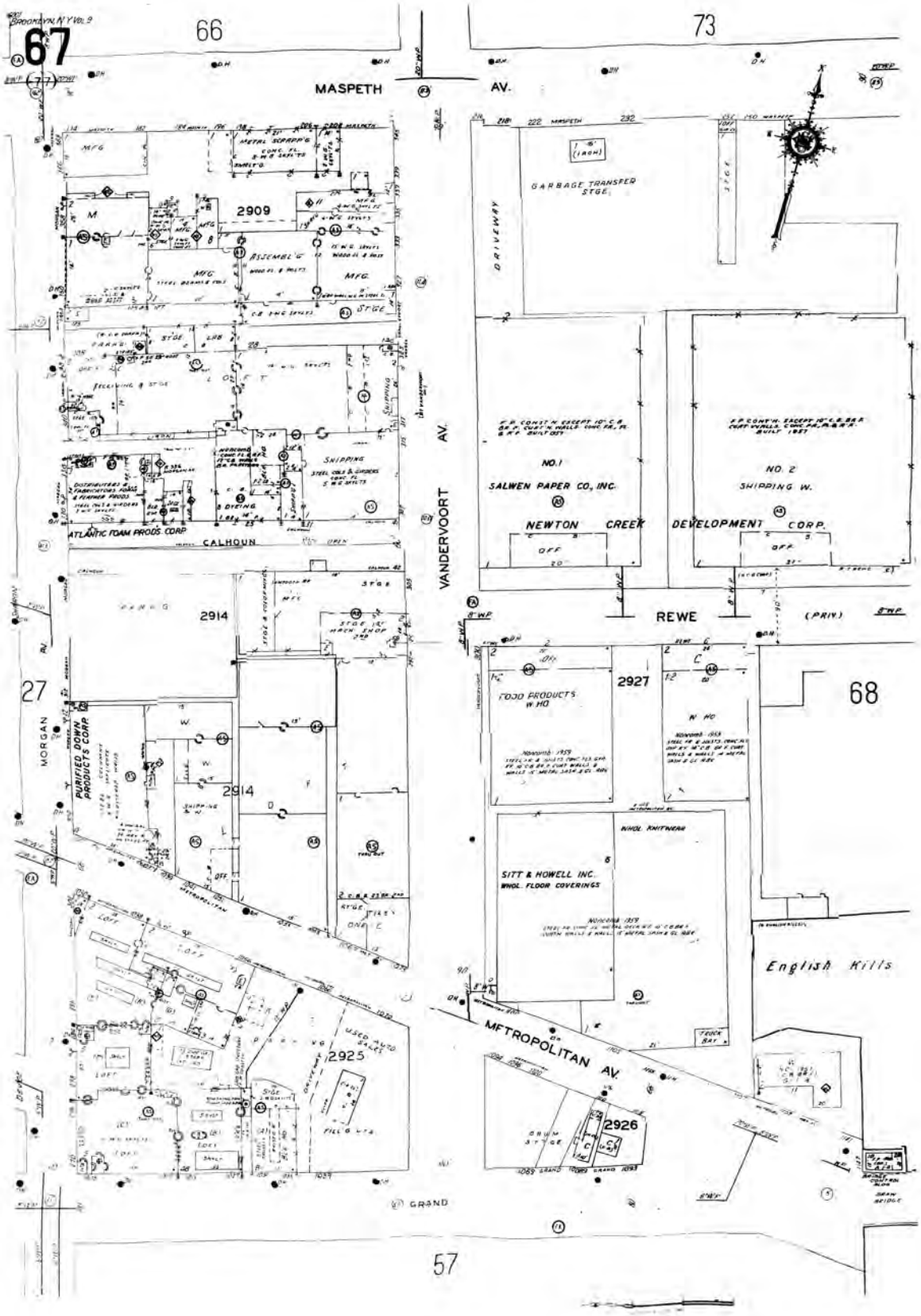

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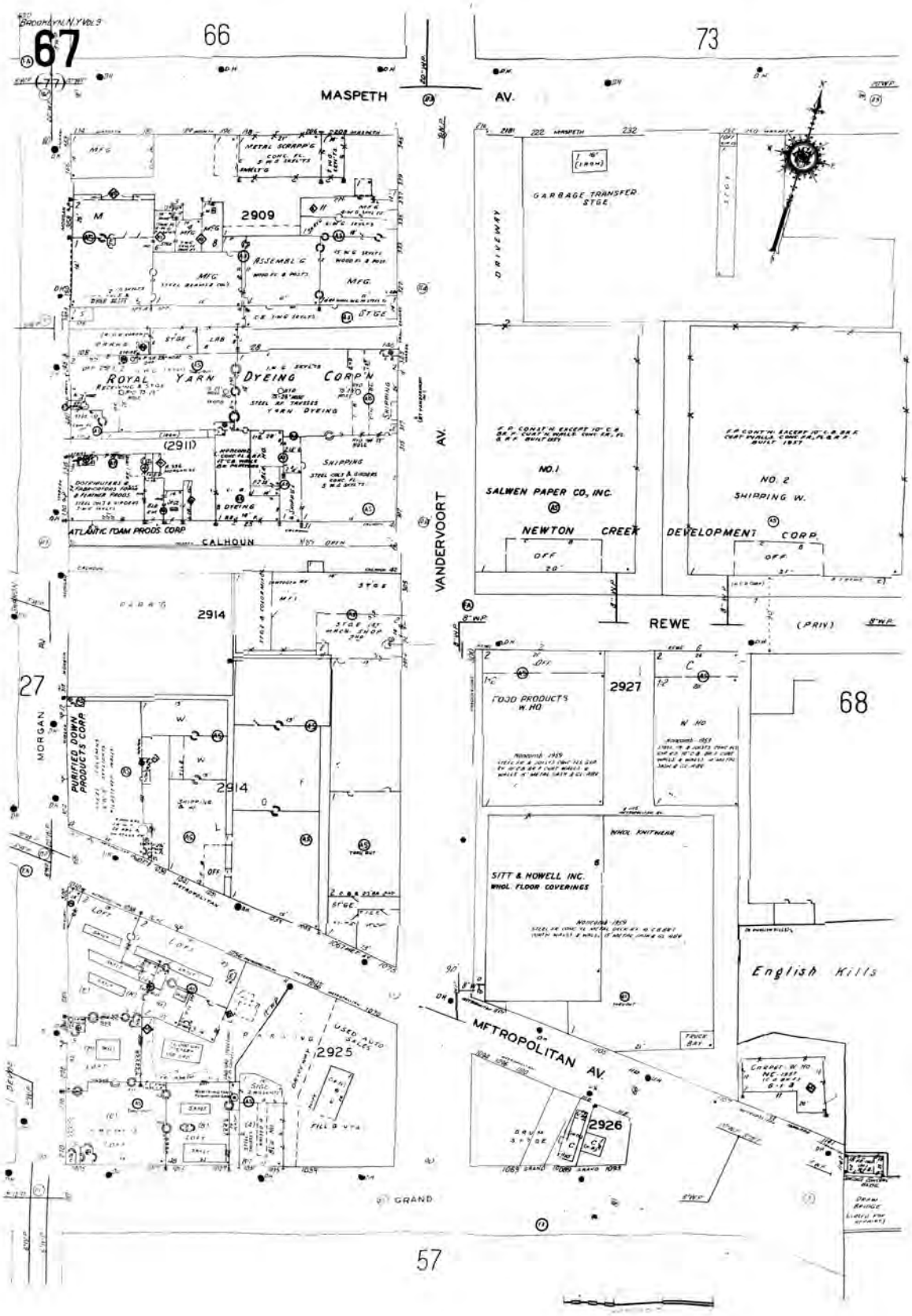

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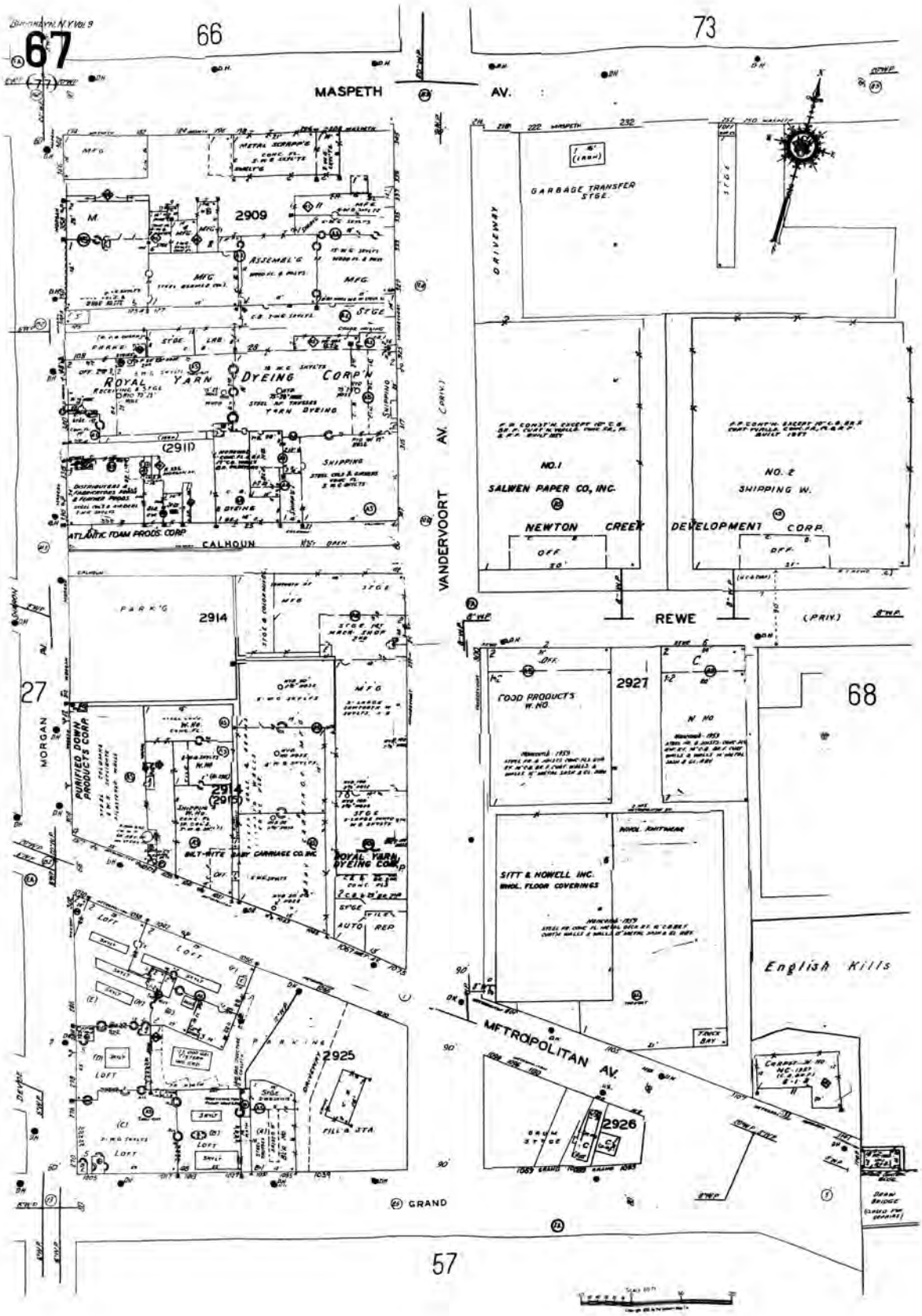

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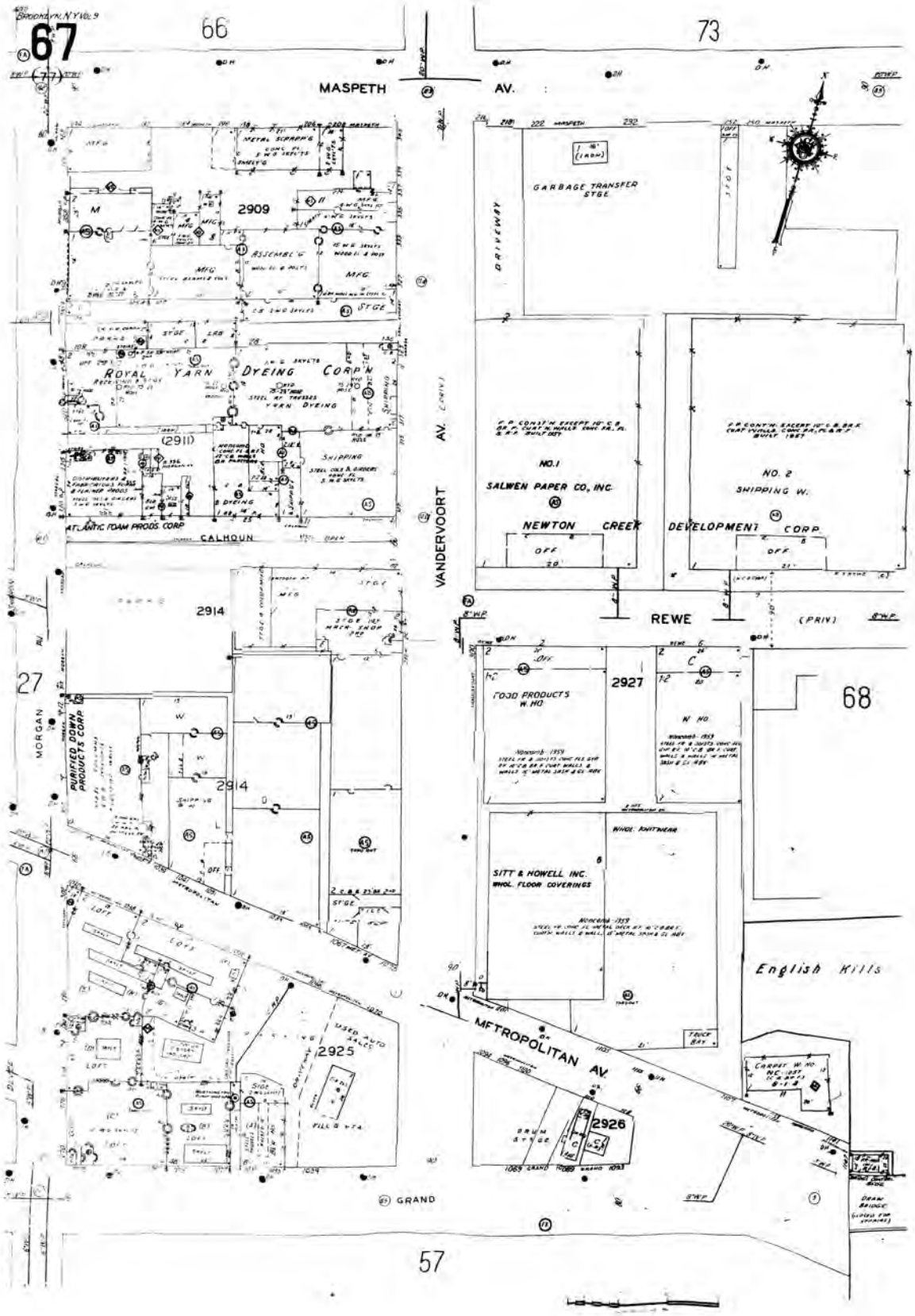

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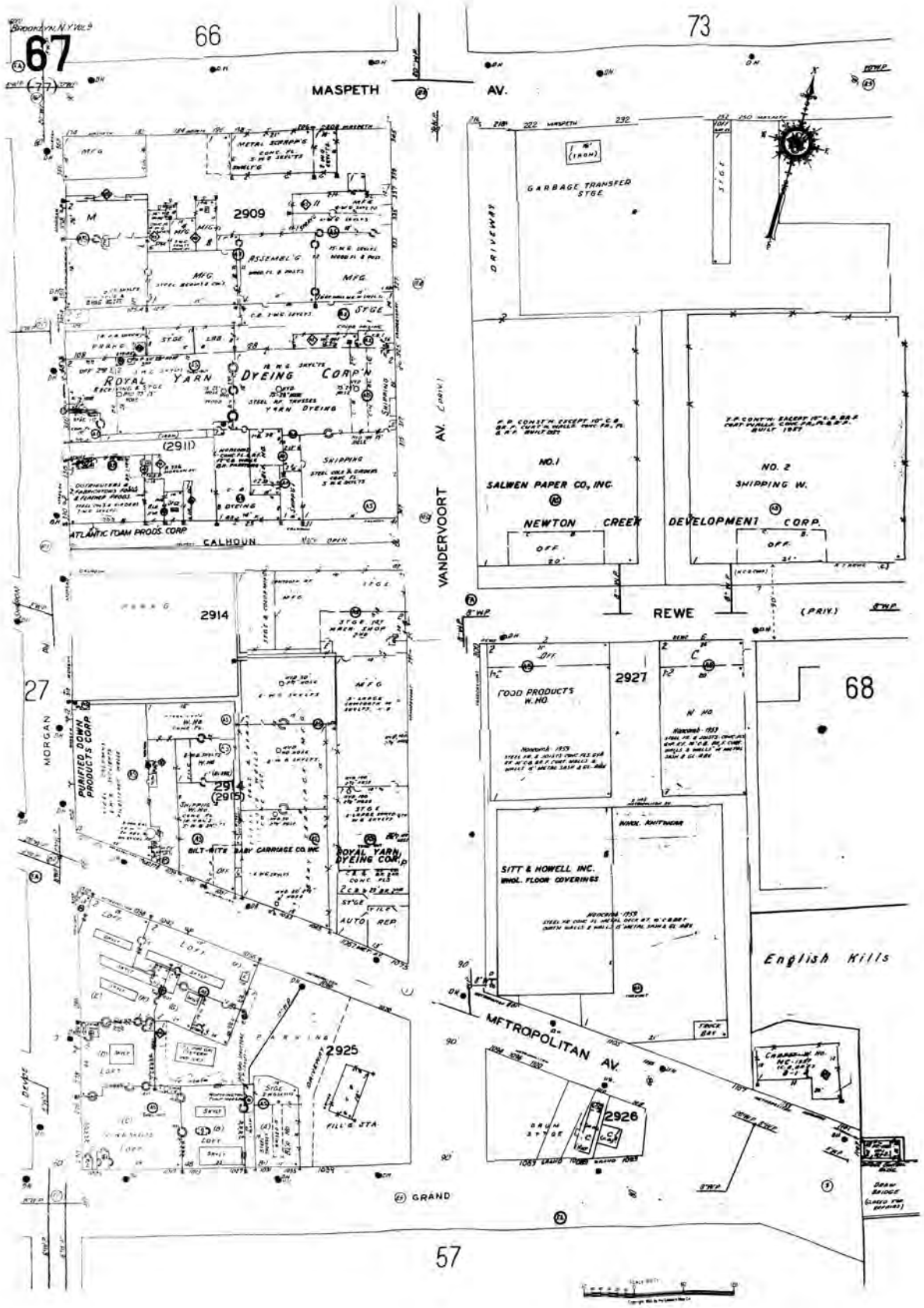

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Certification # 7594-437D-9BAB

Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB
Copyright:	1992

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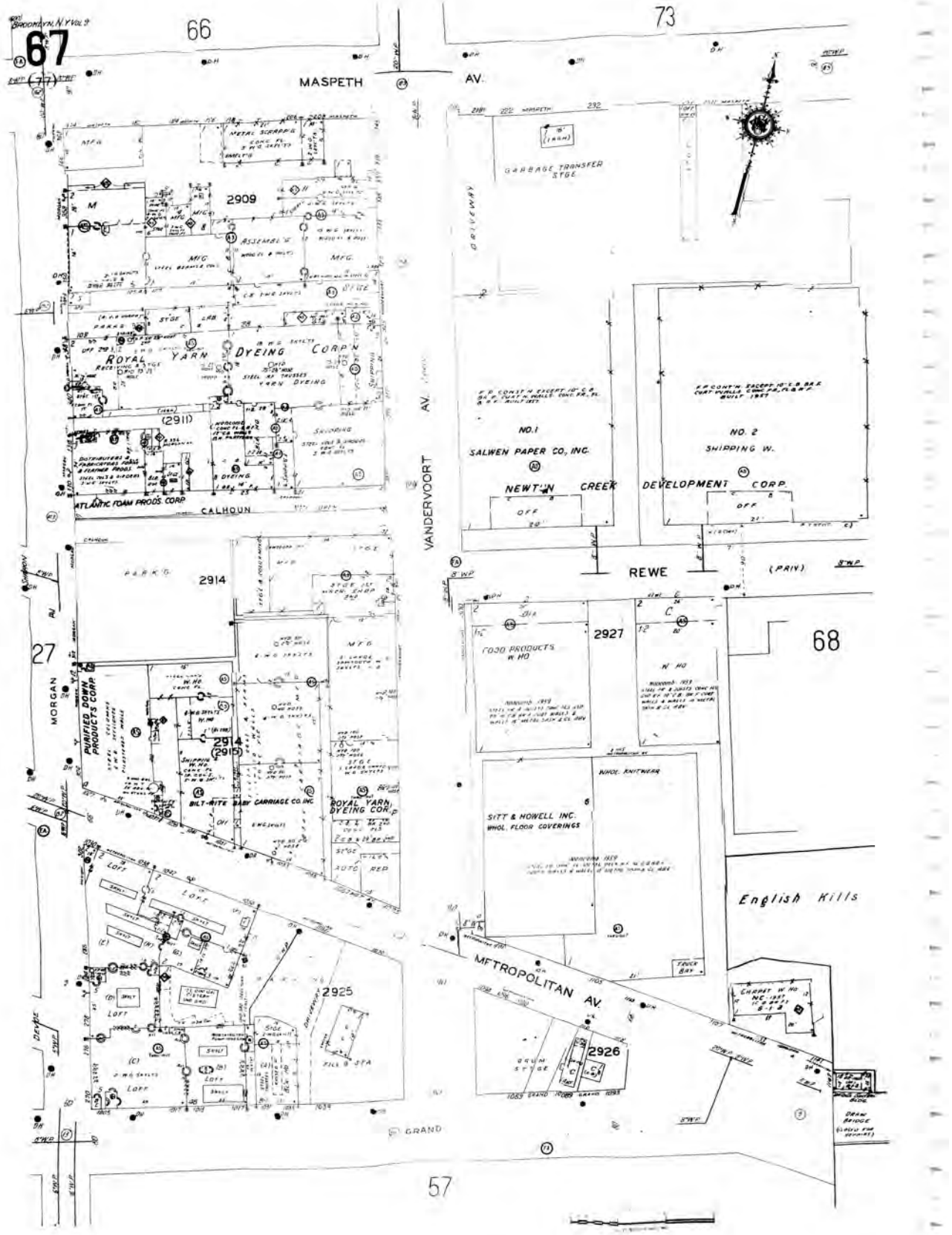

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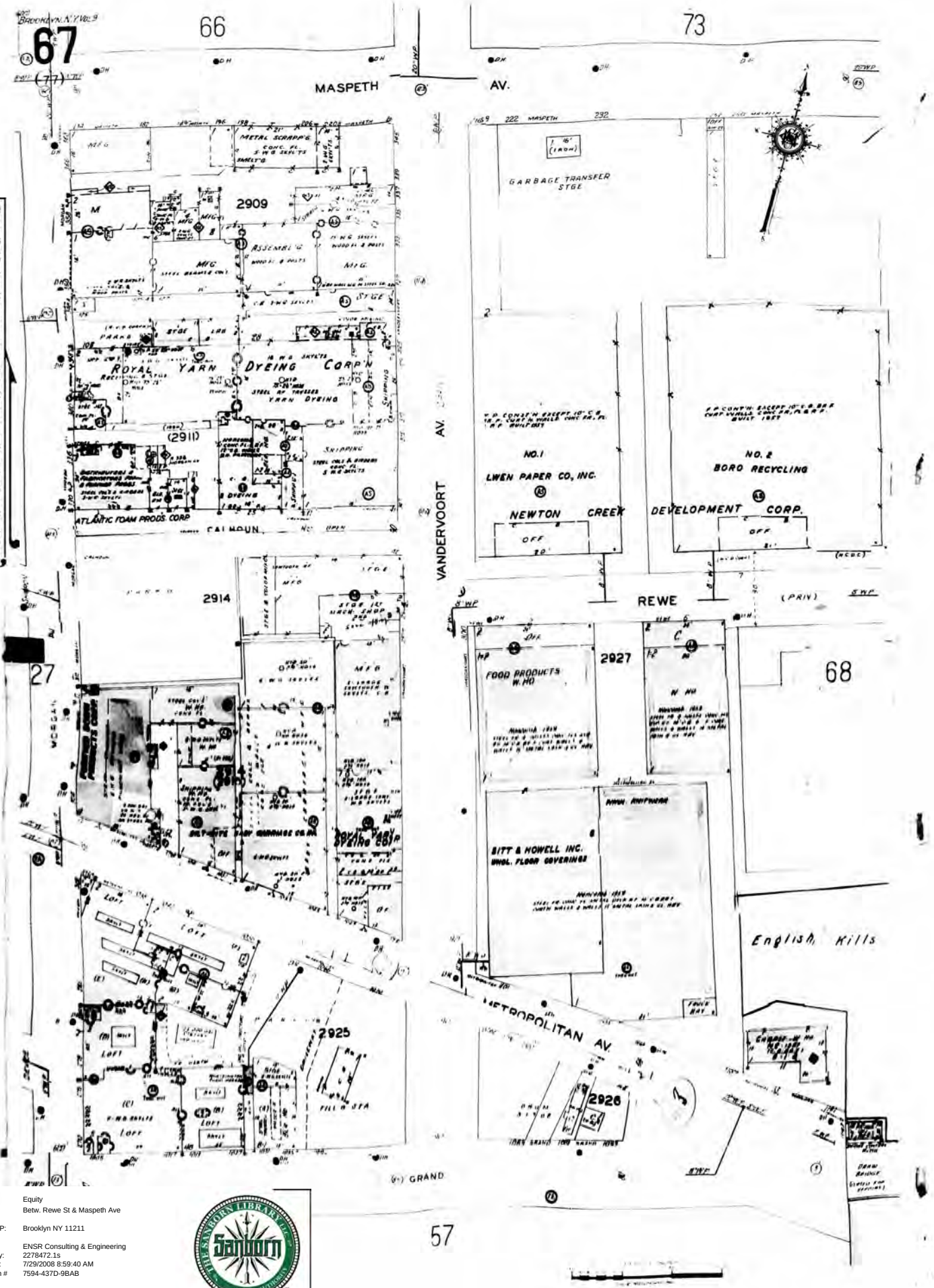
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB
Copyright:	1991

©1991 Sanborn Co., EDR Sanborn, Inc.



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Certification # 7594-437D-9BAB

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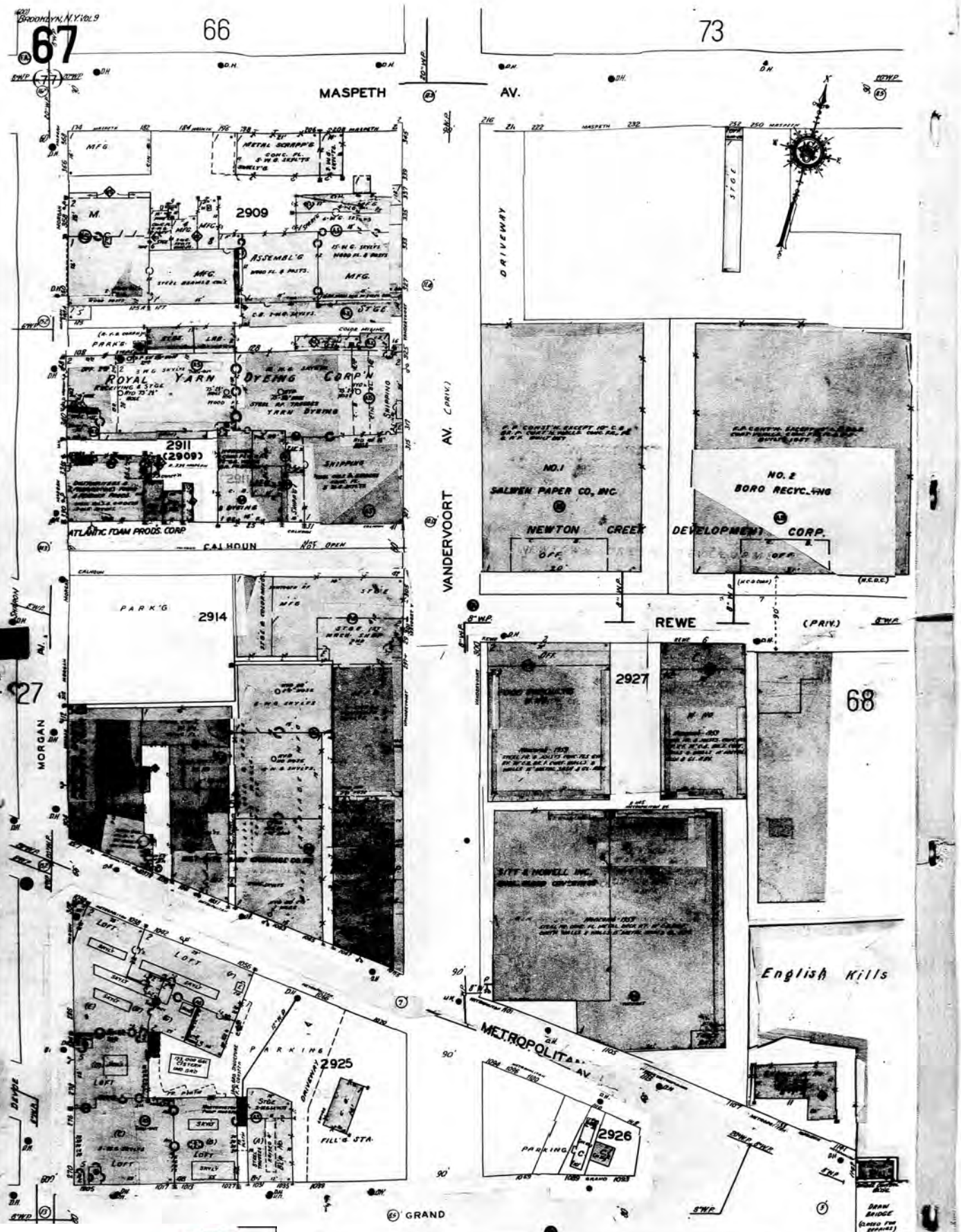
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1990



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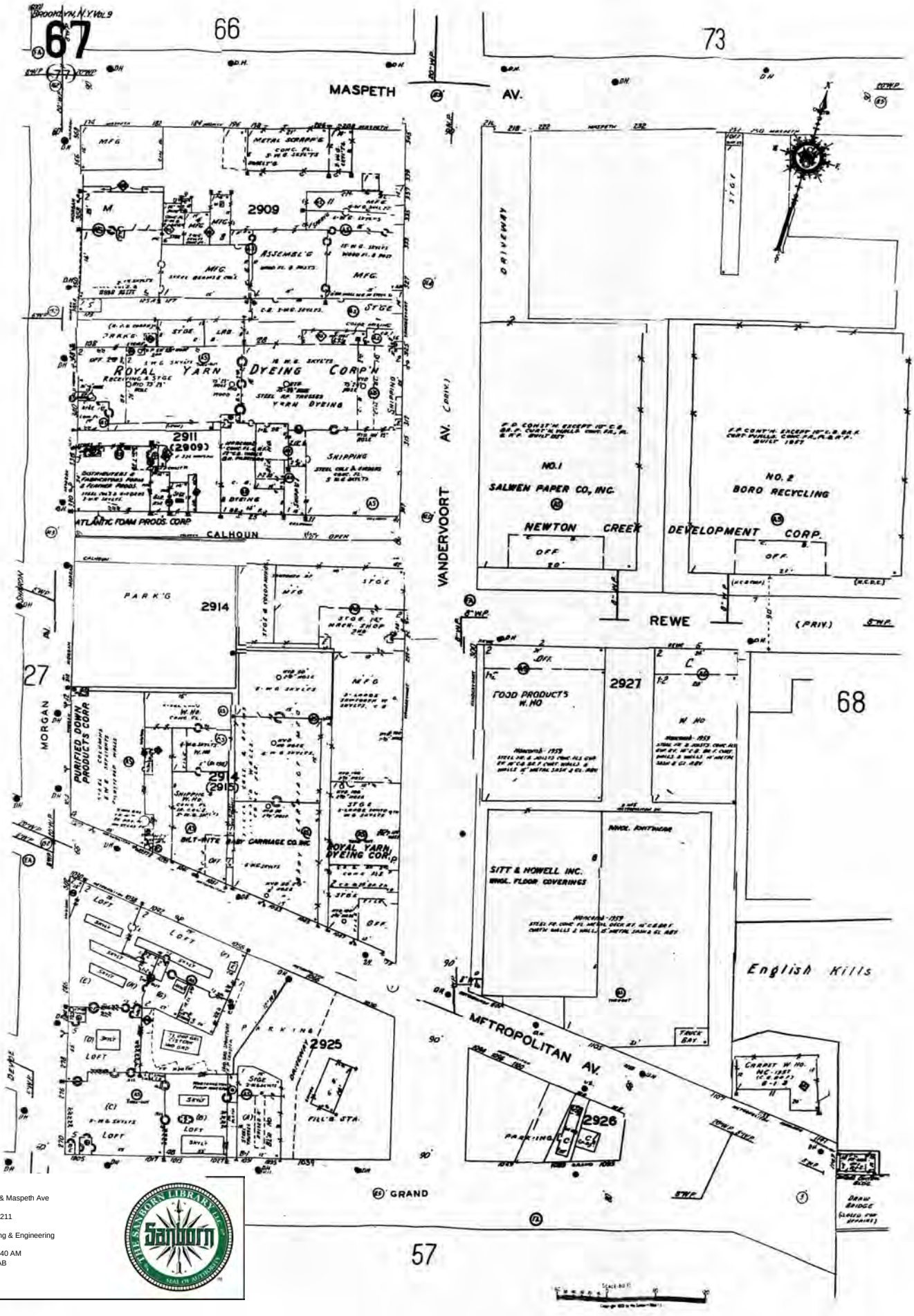
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1988



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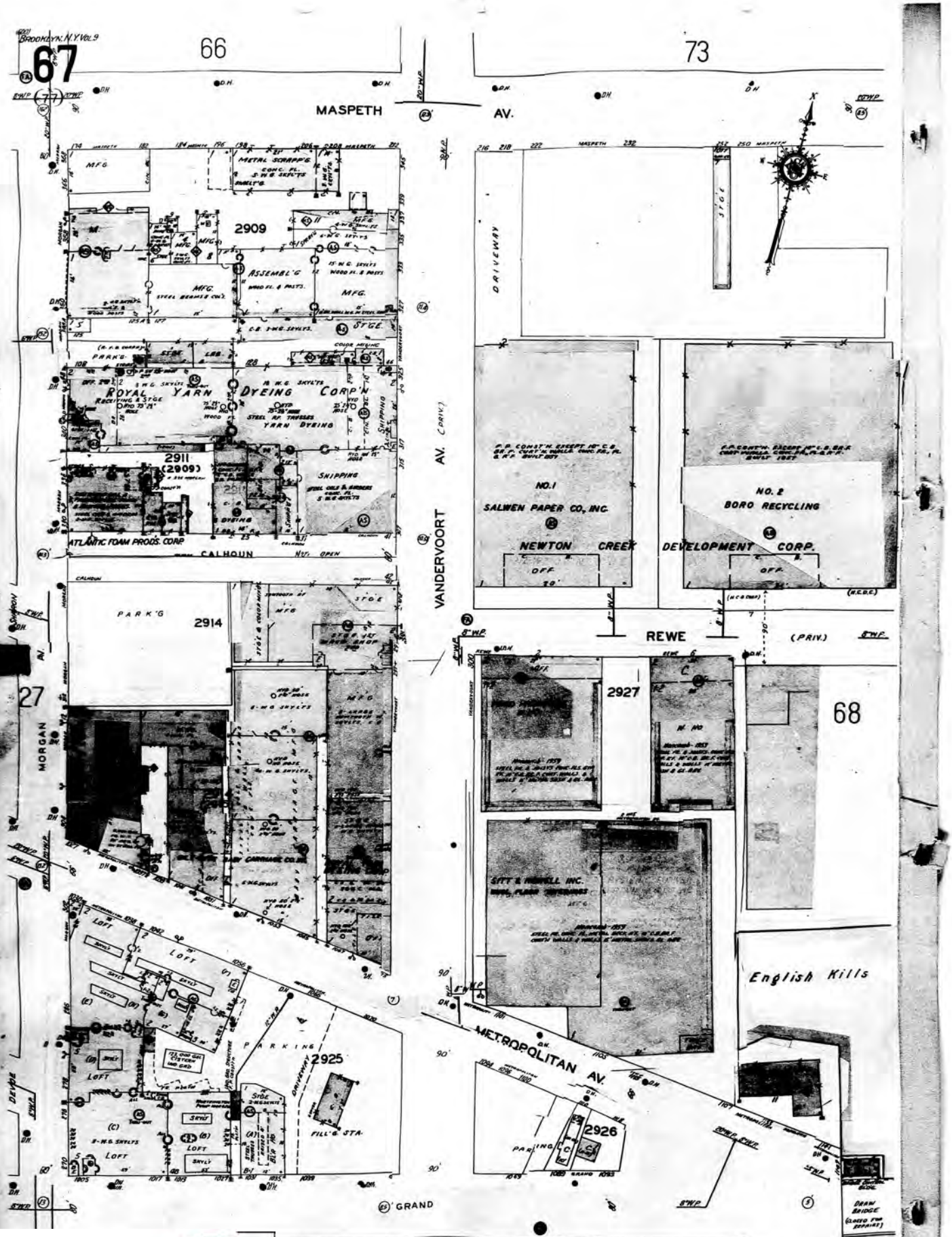
Certification # 7594-437D-9BAB

Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1987



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Certification # 7594-437D-9BAB

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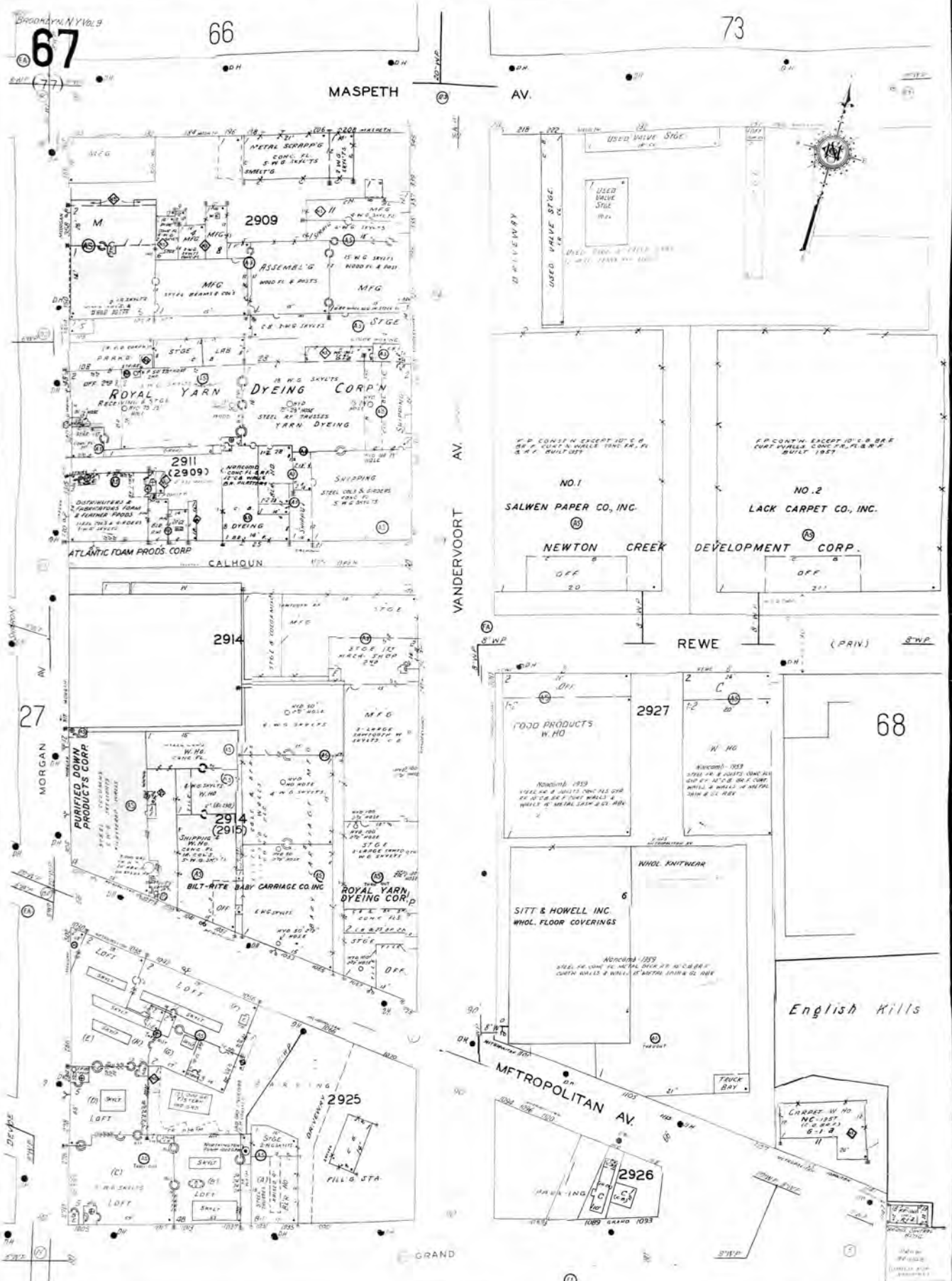
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1986



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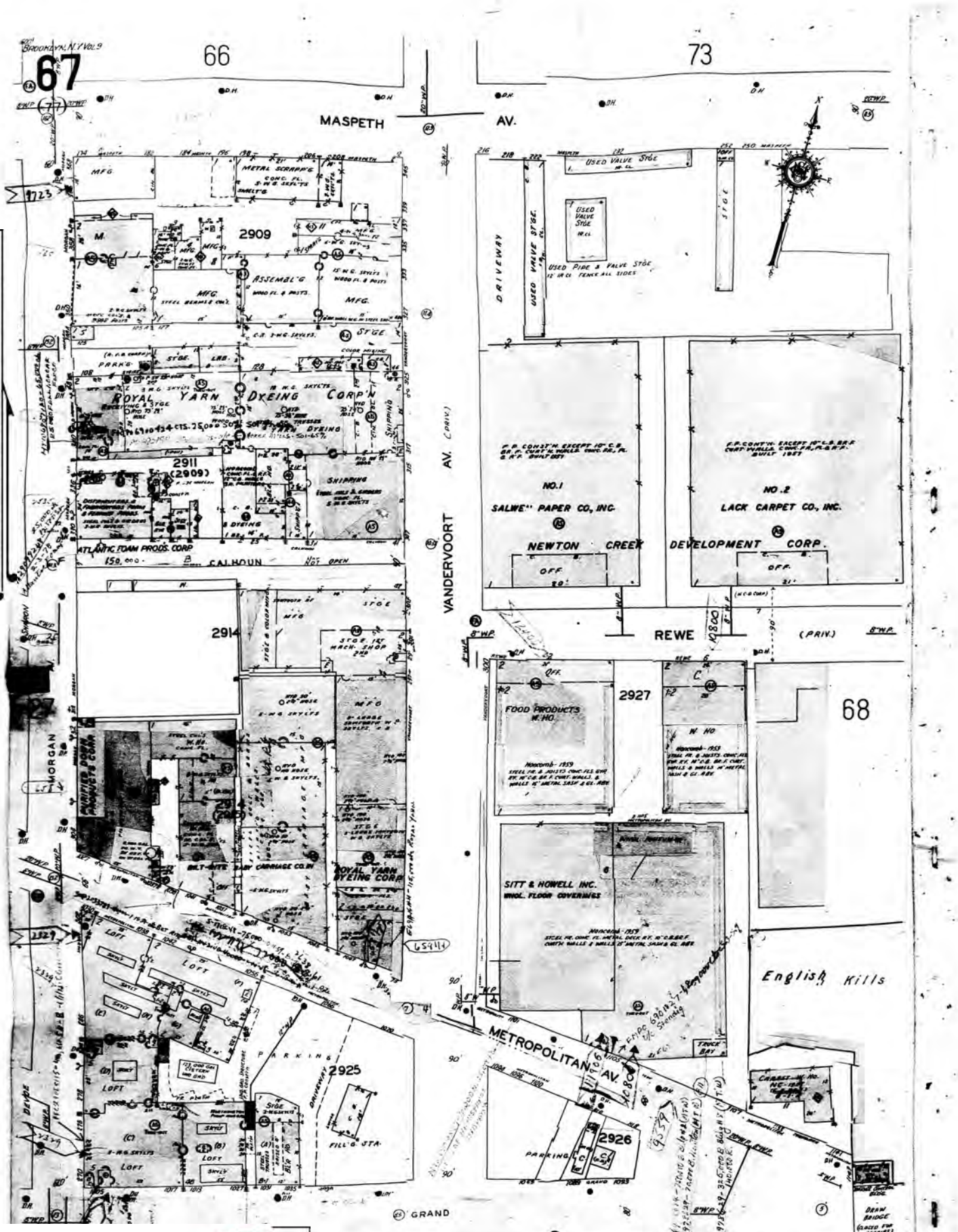
Certification # 7594-437D-9BAB

Site Name: Equity
Address: Betw. Rewe St & Maspeth Ave

City, ST, ZIP: Brooklyn NY 11211

Client: ENSR Consulting & Engineering
EDR Inquiry: 2278472.1s
Order Date: 7/29/2008 8:59:40 AM
Certification #: 7594-437D-9BAB

Copyright: 1981



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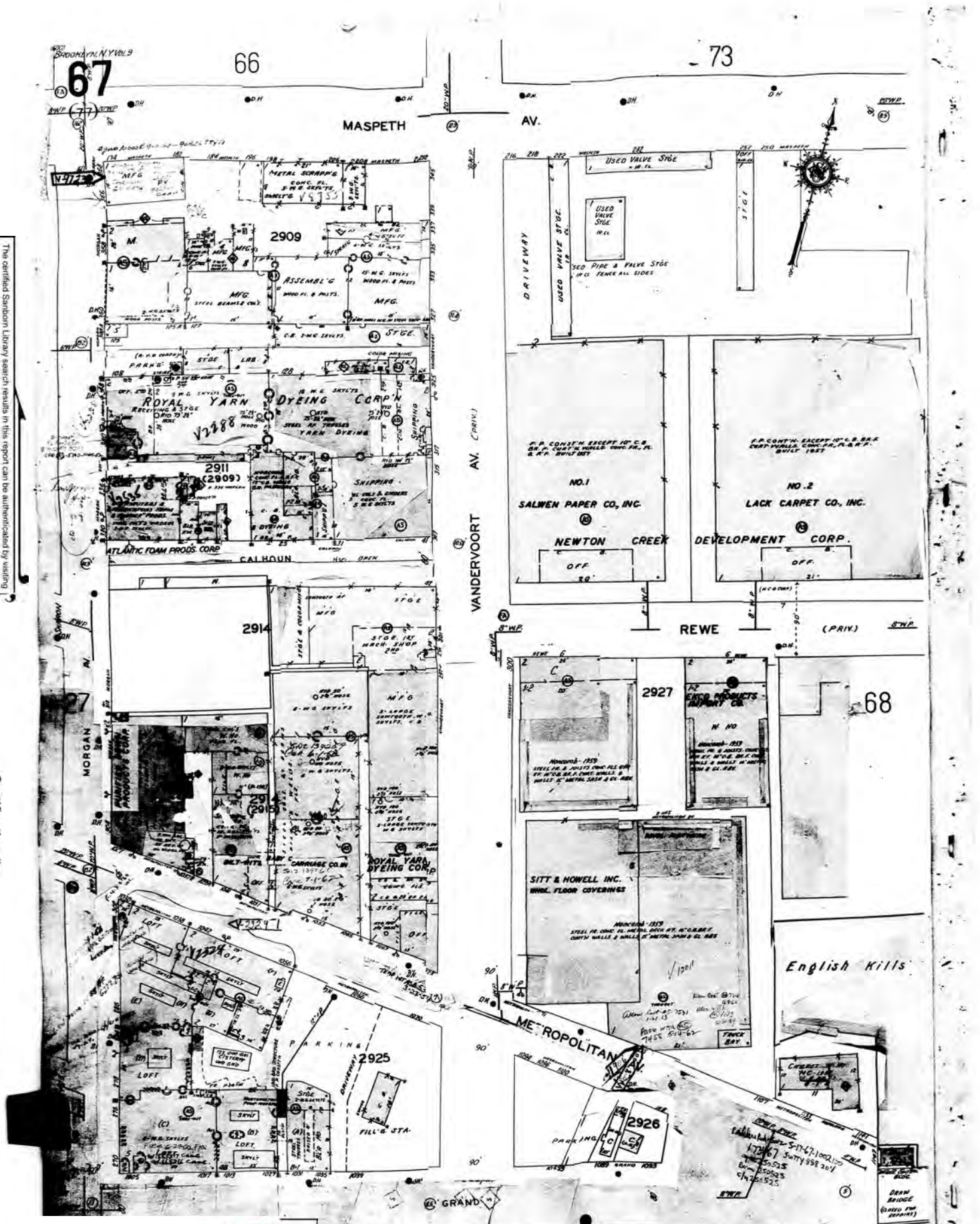
Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1980



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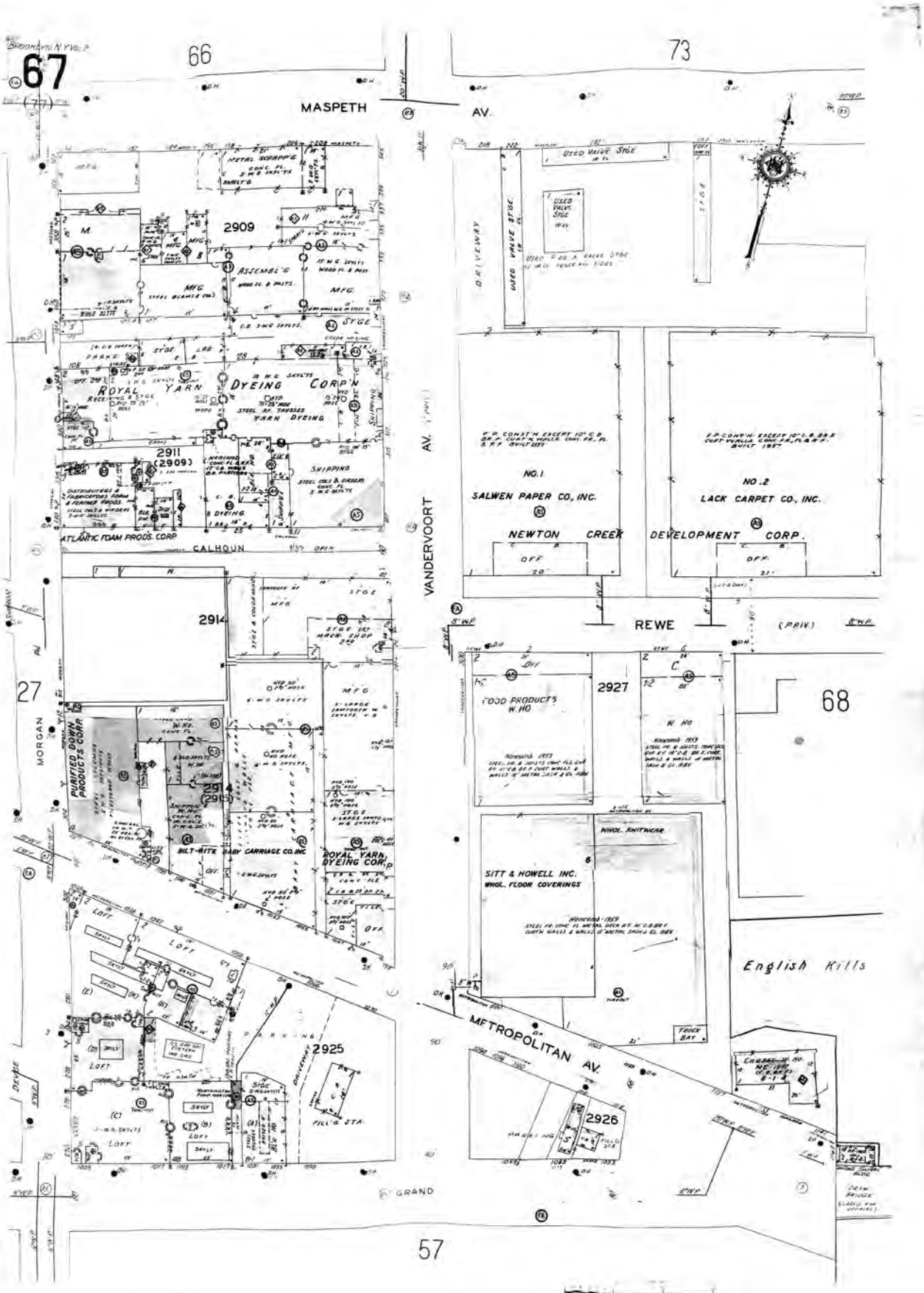
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1979



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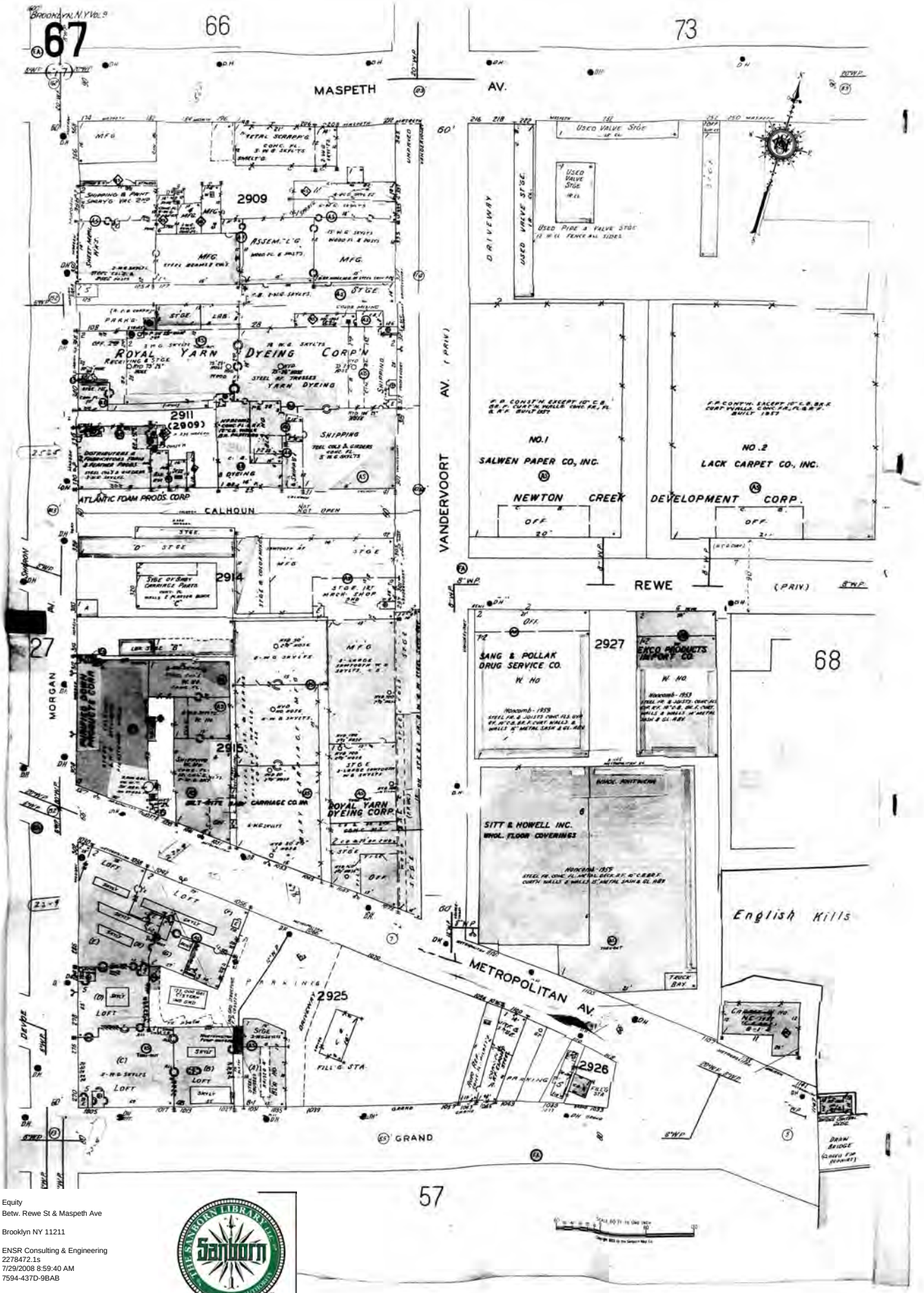
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1977



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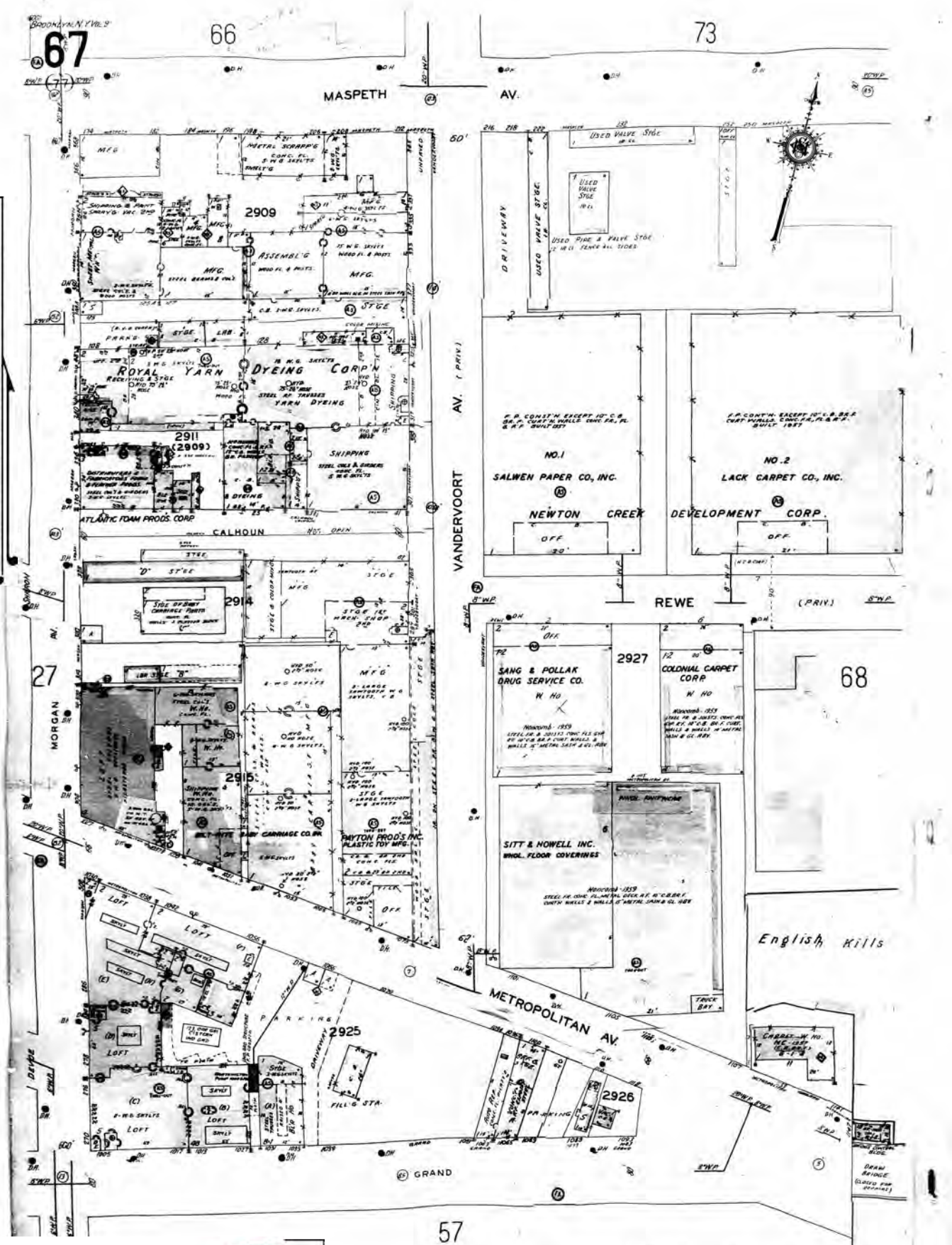
Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1968



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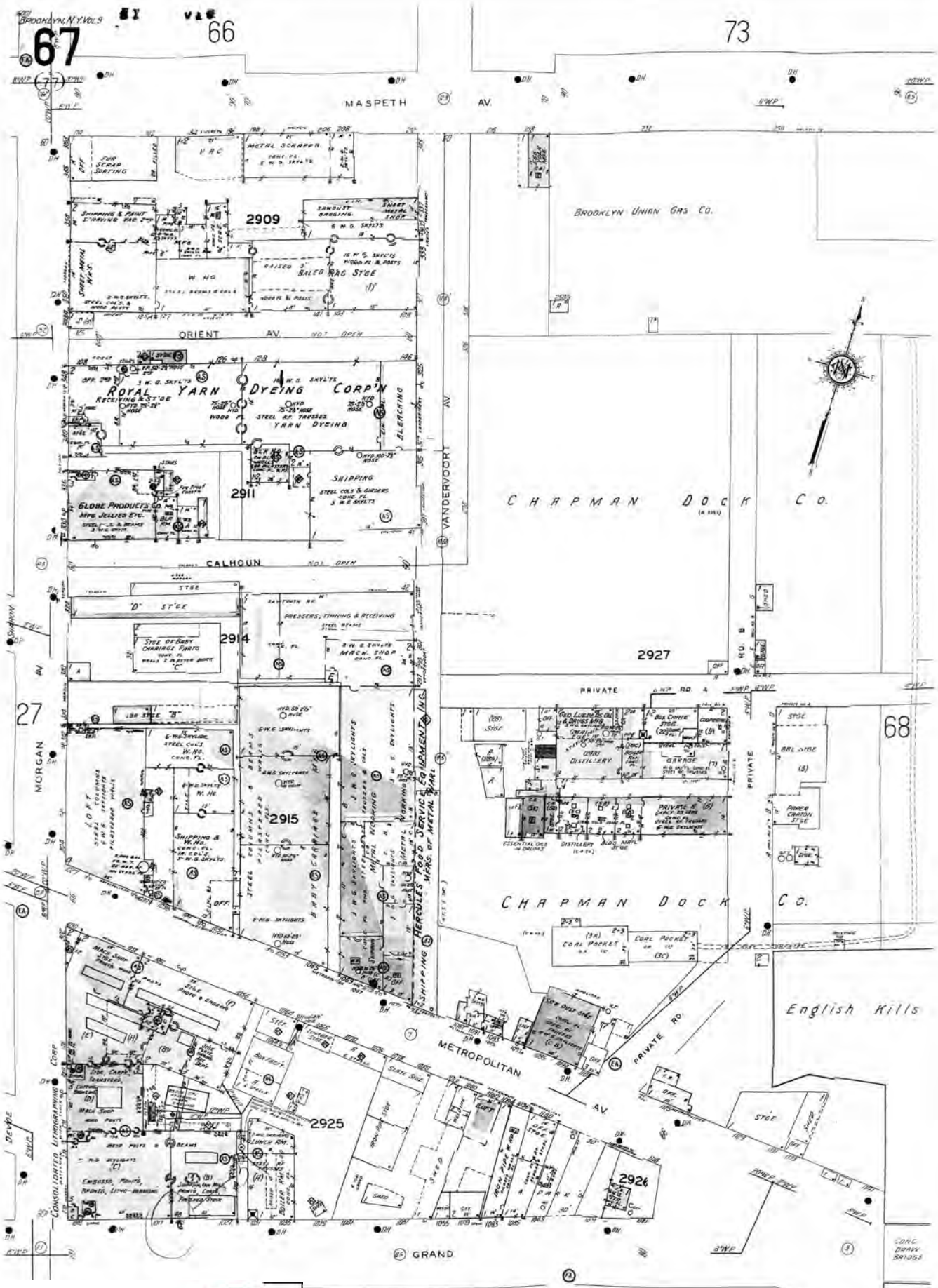
Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1965



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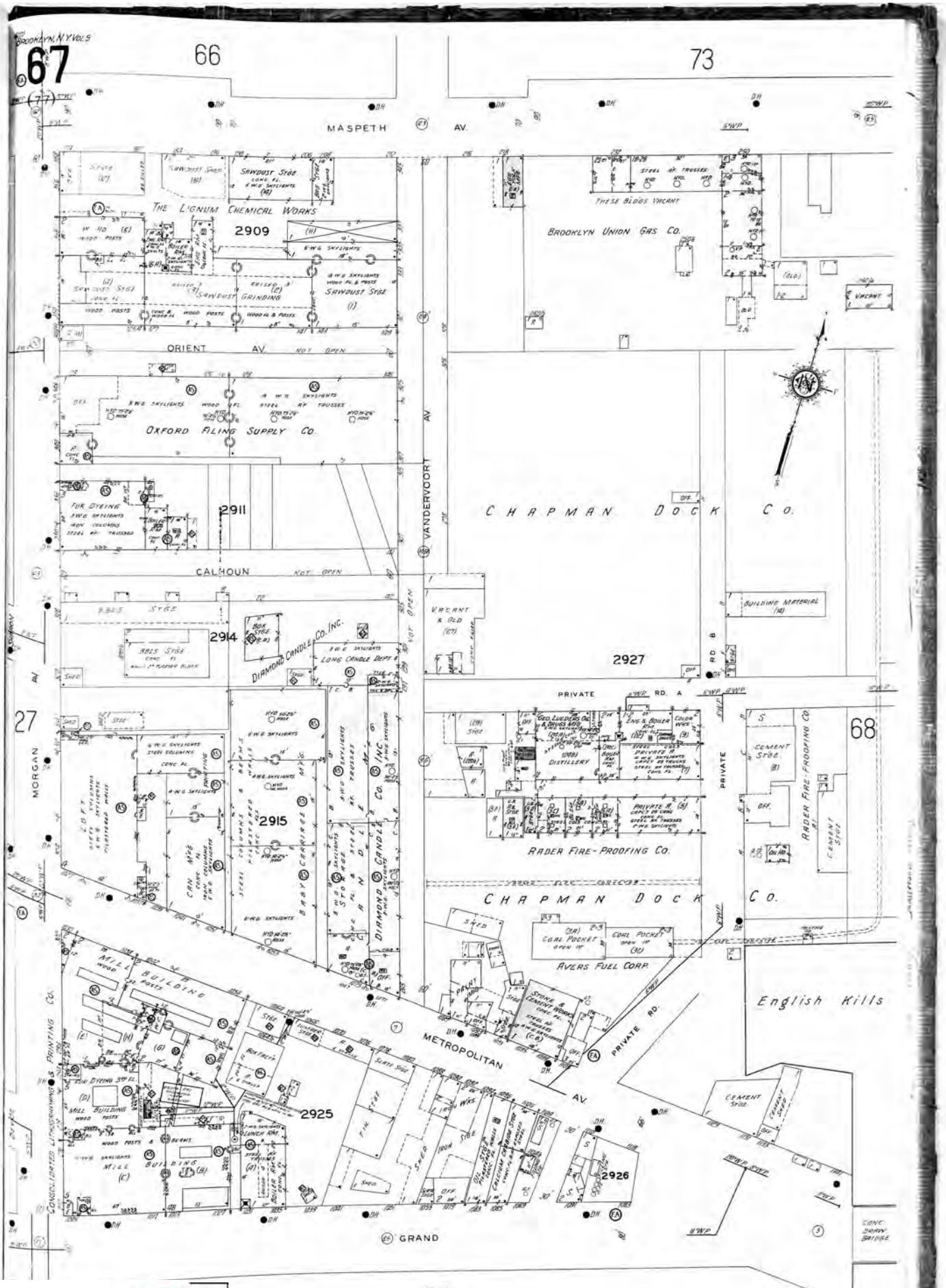
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1951



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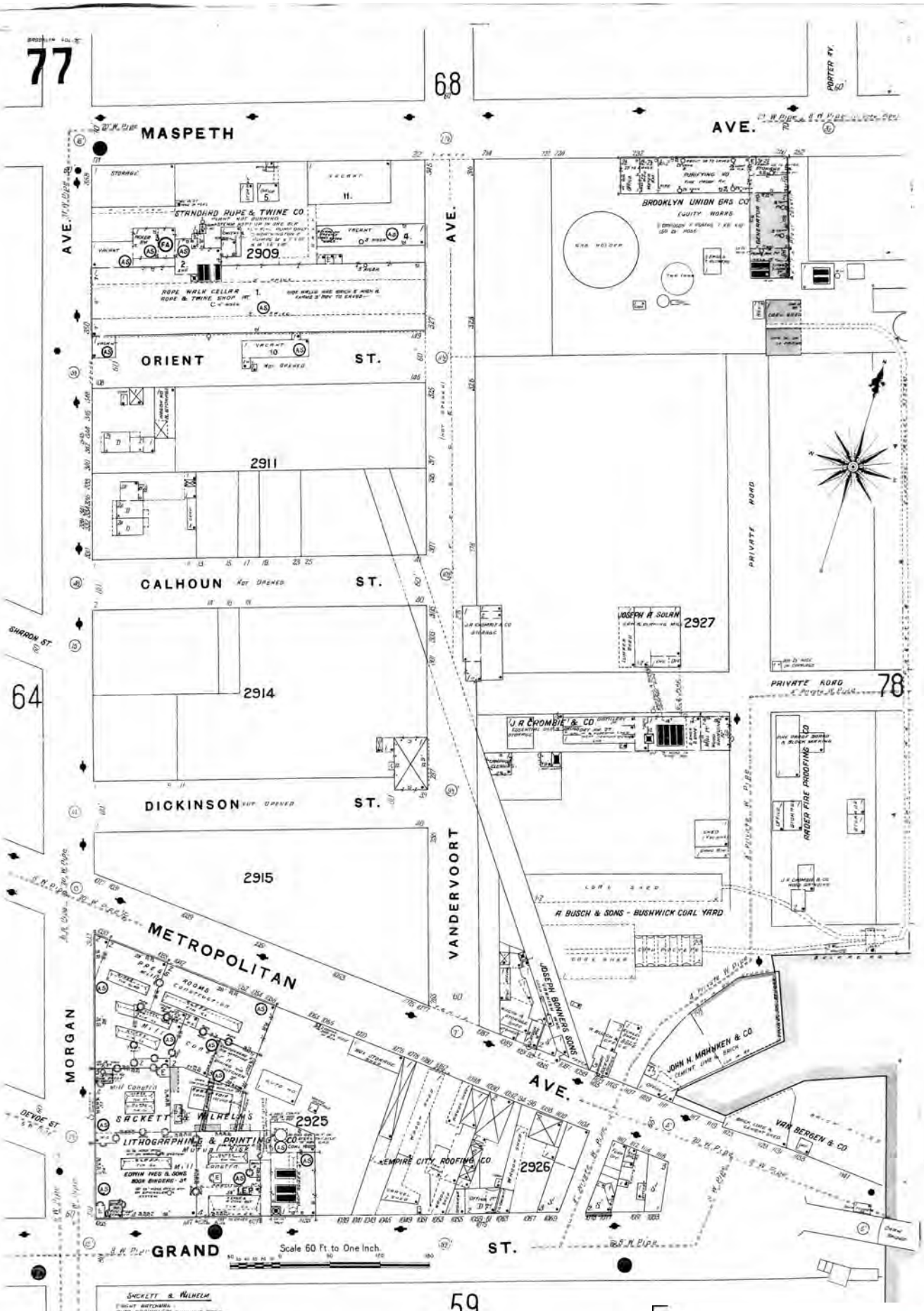
Certification # 7594-437D-9BAB

Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1933



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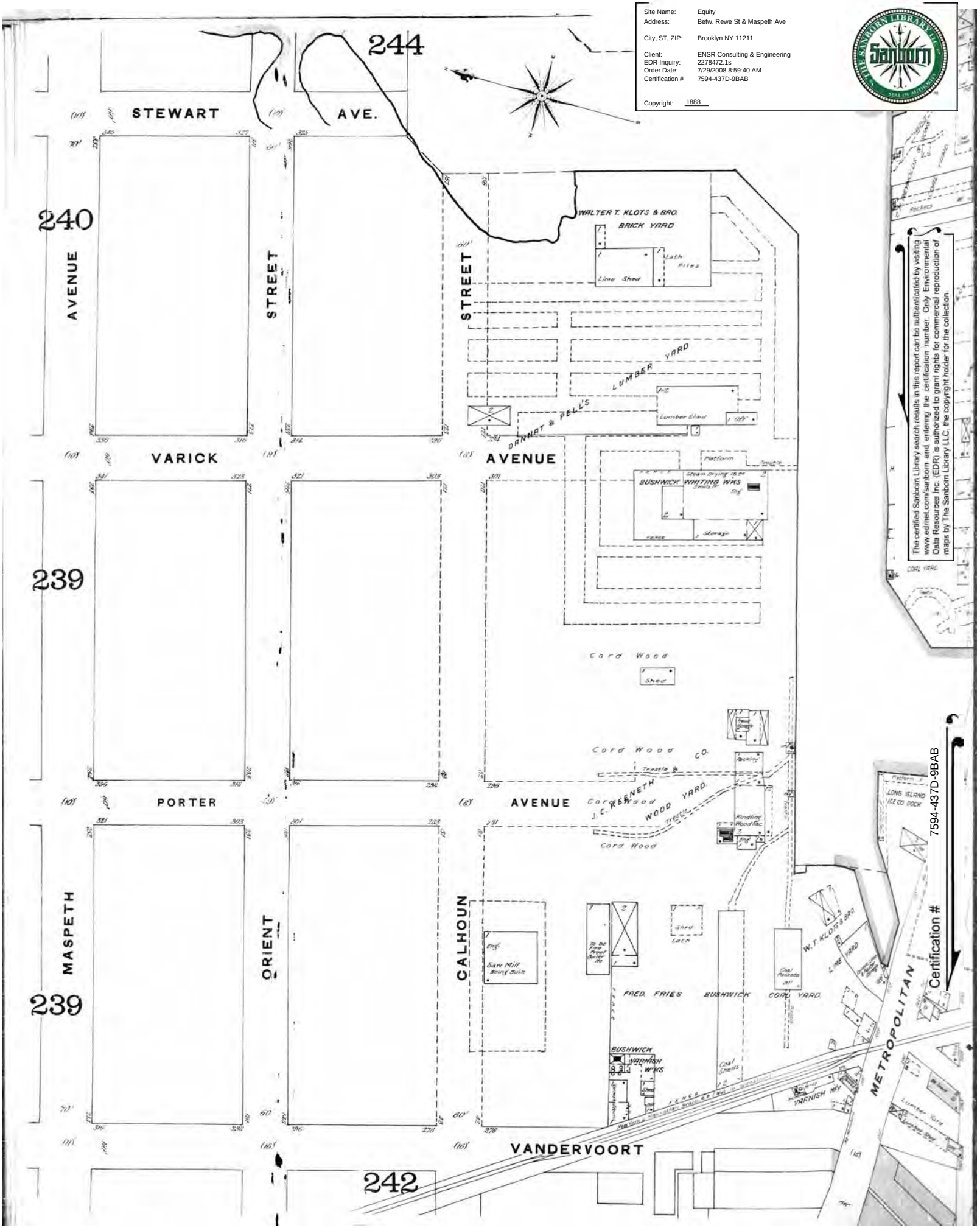
Site Name:	Equity
Address:	Betw. Rewe St & Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	ENSR Consulting & Engineering
EDR Inquiry:	2278472.1s
Order Date:	7/29/2008 8:59:40 AM
Certification #	7594-437D-9BAB

Copyright: 1907

Site Name: Equity
Address: Betw. Rewe St & Maspeth Ave
City, ST, ZIP: Brooklyn NY 11211
Client: ENSR Consulting & Engineering
EDR Inquiry: 2278472.1s
Order Date: 7/29/2008 8:59:40 AM
Certification # 7594-437D-9BAB
Copyright: 1888



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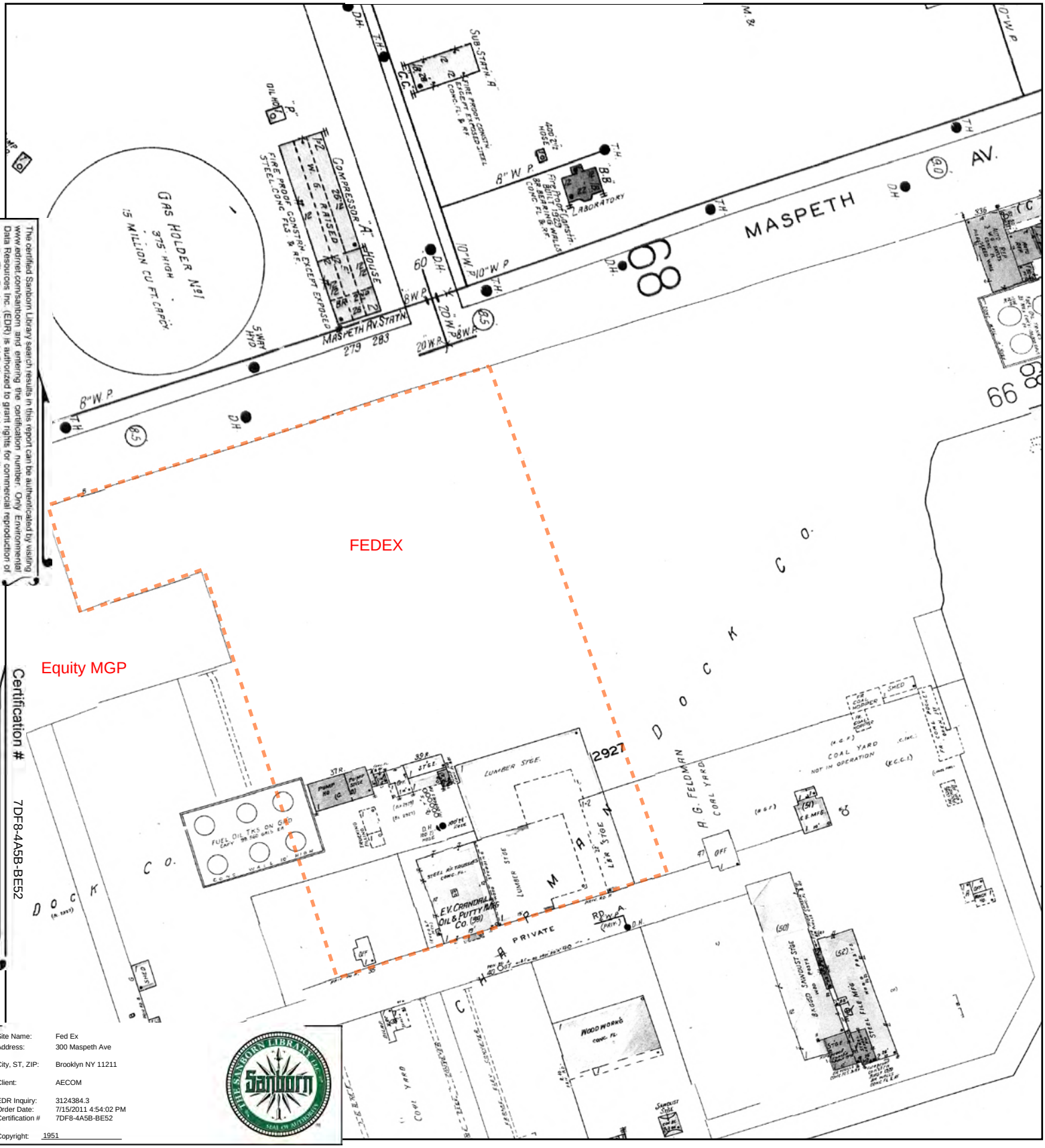
Certification # 7594-437D-9BAB

1951 Certified Sanborn Map



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Certification # 7DF8-4A5B-BE52

Site Name:	Fed Ex
Address:	300 Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	AECOM
EDR Inquiry:	3124384.3
Order Date:	7/15/2011 4:54:02 PM
Certification #	7DF8-4A5B-BE52
Copyright:	1951

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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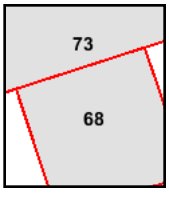
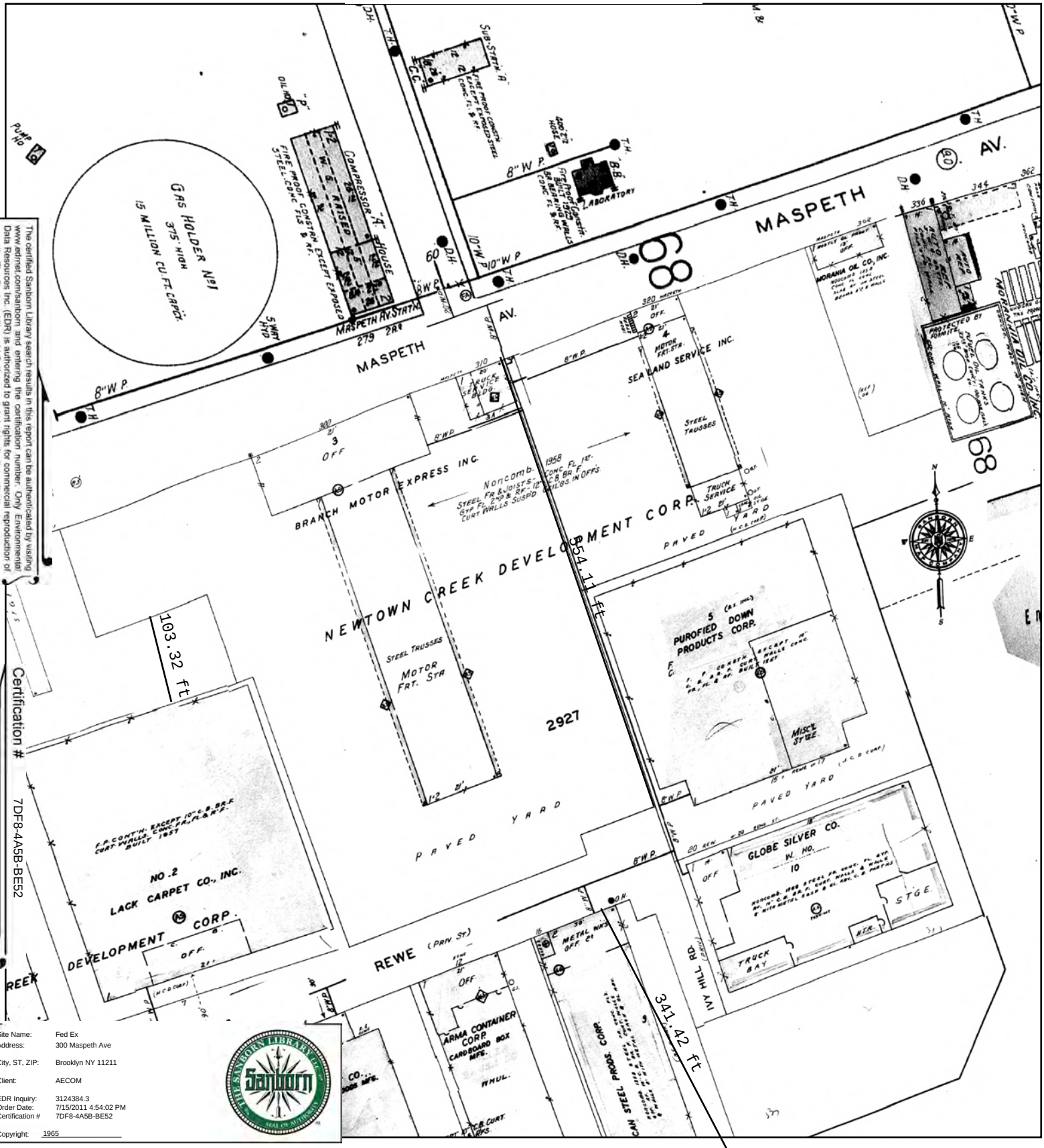


Volume 9, Sheet 68
Volume 9, Sheet 73

N

1965 Certified Sanborn Map



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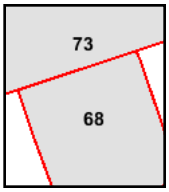
Site Name:	Fed Ex
Address:	300 Maspeth Ave
City, ST, ZIP:	Brooklyn NY 11211
Client:	AECOM
EDR Inquiry:	3124384.3
Order Date:	7/15/2011 4:54:02 PM
Certification #	7DF8-4A5B-BE52
Copyright:	1965

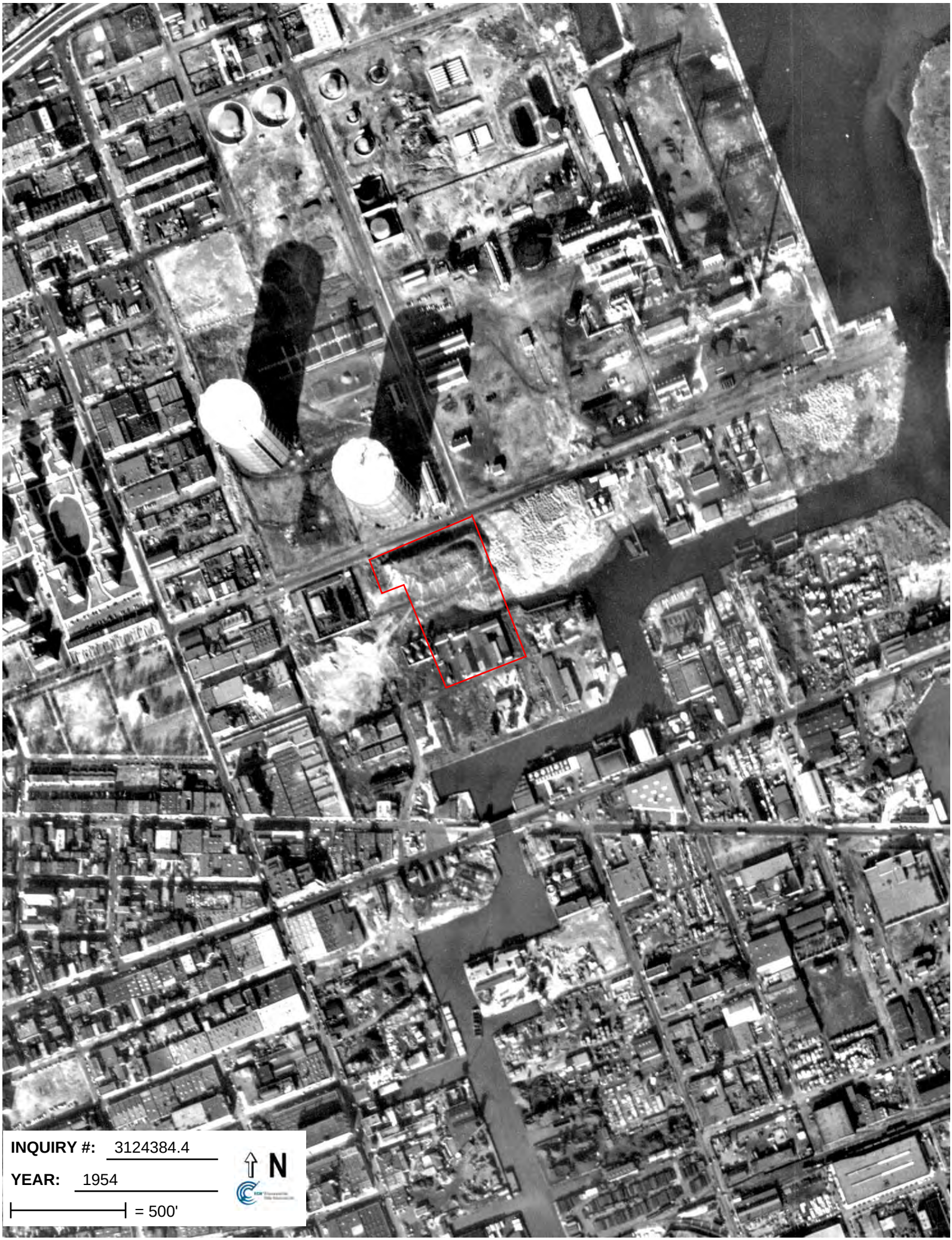
This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 9, Sheet 68
Volume 9, Sheet 73

0 Feet 150 300 600


INQUIRY #: 3124384.4
YEAR: 1954
= 500'
N

PBS # : 2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

Site: FEDEX GROUND PACKAGE SYSTEM, INC.
300 MASPETH AVENUE
BROOKLYN, NY 11211

Owner: FEDEX GROUND
PO BOX 108
PITTSBURGH, PA 15230

(412) 262-6291

Mail: FEDEX GROUND
P.O. BOX 108
PITTSBURGH, PA 15230

Town: New York City **County:** Kings

Owner Type : Corporate or Commercial

On-Site Operator: FEDEX GROUND (718) 782-4848

Primary Operator:

Auth Rep: ATTN: JERRY C. SWART

Emergency : SCOTT GARTON (718) 782-4848 (412) 262-6291

Site Status : Unregulated (<1101 gal.) **Reg Expires :** 10/02/2002 **Cert Printed:** 05/07/1998 **Total Active Tanks :** 0 **Last Inspected:**

Site Type: Trucking/Transportation/Fleet Operation **Cert Issued:** 09/25/199 **Total Active Capacity :** 0 **Inspected By:**

(2) Tank No	(3) Tank Loc	(4) Status	(5) Date Install	(5) Date Closed	(6) Capacity (gals)	(7) Product	(8) Tank Type	(9) Tank IP	(10) Tank EP	(11) Tank SC	(12) Tank LD	(13) Tank OP	(14) Tank SP	(15) Tank Disp	(16) Pipe Loc	(17) Pipe Type	(18) Pipe EP	(19) Pipe SC	(20) Pipe LD	(21) UDC	(22) Multi Owner	Date Test	Next Test
001	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
002	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
003	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
004	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
005	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
006	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
007	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
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013	5	4	1/1/65	1/1/94	550	9999	01	00	00	00	00	00			00	00	00						
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023	5	5	12/1/88	8/1/96	1,000	0001	06	00	04	00	00	00		02	03	06	04					2/1/89	
24	5	5	1/1/65		550	0022	01	00	00	00	00	00			00	00	00						

(See Reverse Side or Last Page for Code Keys)

PBS # :
2-336319

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 3/22/2010

PETROLEUM BULK STORAGE APPLICATION – SECTION B – TANK INFORMATION – CODE KEYS

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Recondition/Repair/ Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/ impervious barrier
3. Aboveground on saddles, legs, stilts, rack, or cradle
4. Aboveground with 10% or more below ground
5. Underground
6. Aboveground in Subterranean Vault w/ access for inspections

Status (4)

1. In-service
2. Temporarily out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Under Dispenser Containment (UDC) – sump/containment underneath a motor fuel dispenser (21)

Check If Present

Tank Owned by Party Other Than Listed in Section a (22)

Check If Applicable

Product Stored (7)

Heating Oils
0001. #2 Fuel Oil
0002. #4 Fuel Oil
0259. #5 Fuel Oil
0003. #6 Fuel Oil
0012. Kerosene
0591. Clarified Oil
2711. Biodiesel (Heating)
2642. Used Oil (Heating)

Motor Fuels
0009. Gasoline
2712. Gasoline/Ethanol
0008. Diesel
2710. Biodiesel
0011. Jet Fuel
1044. Jet Fuel (Biofuel)
2641. Aviation Gasoline

Crude Oil
0006. Crude Oil
0701. Crude Oil Fractions

Lubricating/Cutting Oils
0013. Lube Oil
0015. Motor Oil
1045. Gear/Spindle Oil
0010. Hydraulic Oil
0007. Cutting Oil
0021. Transmission Fluid
1836. Turbine Oil
0308. Petroleum Grease

Oils Used As Building Materials
2626. Asphaltic Emulsions
0748. Form Oil

Petroleum Spirits
0014. White/Mineral Spirits
1731. Naphtha

Mineral/Insulating Oils
0020. Insulating Oil (e.g., Transformer, Cable Oil)
2630. Mineral Oil

Waste/Used/Other Oils
0022. Waste/Used Oil
9999. Other -please list :*

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Urethane Clad Steel
99. Other-please list:*

Internal Protection (9)

00. None
01. Epoxy Liner
02. Rubber Liner
03. Fiberglass Liner (FRP)
04. Glass Liner
99. Other-please list:*

External Protection (10/18)

00. None
01. Painted/Asphalt Coating
02. Original Sacrificial Anode
03. Original Impressed Current
04. Fiberglass
05. Jacketed
06. Wrapped (Piping)
07. Retrofitted Sacrificial Anode
08. Retrofitted Impressed Current
09. Urethane
99. Other-please list:*

Secondary Containment (11/19)

00. None

Aboveground Tanks/Piping
01. Diking
02. Vault (w/access)
05. Synthetic Liner
06. Remote Impounding Area
09. Modified Double-Walled
10. Impermeable Barrier ***
11. Double Bottom ***

*** Each of these codes must be combined with code 01 or 06 to meet compliance requirements

Underground Tanks/Piping
03. Vault (w/o access)
04. Double-Walled
05. Synthetic Liner
07. Excavation/Trench Liner System
08. Flexible Internal Liner (Bladder)
10. Impervious Underlayment

Tank Leak Detection (12)

00 None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
05. In-Tank System (Auto Tank Gauge)
06. Impermeable Barrier (Aboveground Only)
99. Other-please list:*

Overfill Prevention (13)

00. None
01. Float Vent Valve
02. High Level Alarm
03. Automatic Shut-off
04. Product Level Gauge (Aboveground Only)
05. Vent Whistle
99. Other-please list:*

Spill Prevention (14)

00. None
01. Catch Basin
02. Transfer Station Containment
99. Other - Please list*

Pumping/Dispensing Method (15)

00. None
01. Submersible
02. Suction
03. Gravity

Piping Location (16)

00. No Piping
01. Aboveground
02. Underground/On-ground
03. Aboveground/Underground Combination

Piping Type (17)

00. None
01. Steel/Carbon Steel/Iron
02. Galvanized Steel
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Encased in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology
09. Concrete
10. Copper
11. Flexible Piping
99. Other-please list:*

Pipe Leak Detection (20)

00. None
01. Interstitial Electronic Monitoring
02. Interstitial Manual Monitoring
03. Vapor Well
04. Groundwater Well
07. Pressurized Piping Leak Detector
08. Tank Top Sump
09. Exempt Suction Piping
99. Other-please list:*

*** If other, please list on a separate sheet including Tank Number**

Appendix C

Dust Suppression Well Information

THE CITY OF NEW YORK DOCUMENT NO. 780113
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

THIS PERMIT OR CERTIFICATE OF QUALIFICATION IS ISSUED TO THE PERMITTEE AND PREMISES OR THE CERTIFICATE HOLDER DESIGNATED HEREON. IT IS GRANTED UNDER CONDITIONS OF COMPLIANCE WITH PROVISIONS OF THE HEALTH CODE AND REGULATIONS THEREUNDER.

PERMIT OR CERTIFICATE OF QUALIFICATION

NOT TRANSFERABLE
PERMIT NO: H33 1155073 ND R
ISSUE DATE: 10/21/2009

CAMIS ID : 40997079
EXPIRATION DATE: 12/31/2010

WELL WATER
NONDRINKING(RENEWAL)

"IF THE PERMITTEE / LICENSEE, OR HIS EMPLOYEES OR AGENTS, REFUSE TO ANSWER QUESTIONS IN RELATION TO THIS PERMIT / LICENSE AFTER BEING GRANTED TESTIMONIAL OR USE IMMUNITY, THIS PERMIT / LICENSE MAY BE REVOKED, OR OTHER APPROPRIATE ACTION TAKEN."

COOPER TANK & WELDING CORP
COOPER TANK TRANSFER
215 MOORE STREET
BROOKLYN NY 11206

PREMISE: 222 MASPETH AVENUE
BROOKLYN NY 11211

POST CONSPICUOUSLY
THIS PERMIT DOES NOT RELIEVE THE OPERATOR FROM COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF THE NEW YORK CITY BUILDING CODE, ZONING RULES AND REGULATIONS AND OTHER APPLICABLE LAWS AND REGULATIONS.
PURSUANT TO NEW YORK CITY CHARTER SECTION 645, THE ABOVE PREMISES MAY NOT BE USED OR OCCUPIED UNTIL A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED BY THE NEW YORK COMMISSIONER OF BUILDINGS.

Thomas Farley

COMMISSIONER OF HEALTH AND MENTAL HYGIENE

New York State Department of Environmental Conservation

Long Island Wells Unit

Fax Cover Sheet

Date: 2/5/09

To: National Grid

Attention: Donald Campbell

From: David Leasyel

Subject: well loss, K-3504

Total Number of Pages Including Cover Sheet: 2+1 cover

Telephone Number: (631) 444-0410

Return Fax Number: (631) 444-0424

Fax: 718-963-5611

Phone: 718-963-5453

County Kings

Well Number K3504

COMPLETION REPORT—LONG ISLAND WELL

OWNER Cooper Tank & Welding Corp

ADDRESS 222 Maspeth Ave Brooklyn New York

LOCATION OF WELL same

*LOG
Ground Surface
EL. _____ ft. above sea
_____ ft.
TOP OF WELL

0-15 Sand & Boulders
15-30 Clay Sand
30-40 Clay
40-45 Very Hard Clay
45-80 Fine to Medium Sand

DEPTH OF WELL BELOW SURFACE 78'

DEPTH TO GROUNDWATER FROM SURFACE 12'

CASINGS

DIAMETER	6 in.	in.	in.	in.
LENGTH	63 ft.	ft.	ft.	ft.

SEALING

CASINGS REMOVED

SCREENS

MAKE Houston

OPENINGS 20 Slot

DIAMETER	6 in.	in.	in.	in.
LENGTH	15 ft.	ft.	ft.	ft.

DEPTH TO TOP FROM TOP OF CASING 1'

PUMPING TEST

DATE

TEST OR PERMANENT PUMP?

DURATION OF TEST days hours

MAXIMUM DISCHARGE 40 gallons per min.

STATIC LEVEL PRIOR TO TEST ft. in. below top of casing

LEVEL DURING MAXIMUM PUMPING in. below top of casing

MAXIMUM DRAWDOWN ft.

Approximate time of return to normal level after cessation of pumping hours min.

PUMP INSTALLED

TYPE Submercible

MAKE Grundfos

MODEL NUMBER 40-S-50-12

MOTIVE POWER Elec

MAKE Franklin

H.P. 5

CAPACITY 36 g.p.m. against 300 ft. of discharge head

NUMBER OF BOWLS OR STAGES 12

ft. of total head

DROP LINE

DIAMETER 2 in.

LENGTH 63 ft.

SUCTION LINE

DIAMETER in.

LENGTH ft.

METHOD OF DRILLING
☐ rotary ☐ cable tool ☒ other X

USE OF WATER Dust Control

WORK STARTED 5/30/03

COMPLETED 5/30/03

DATE 7/26/03

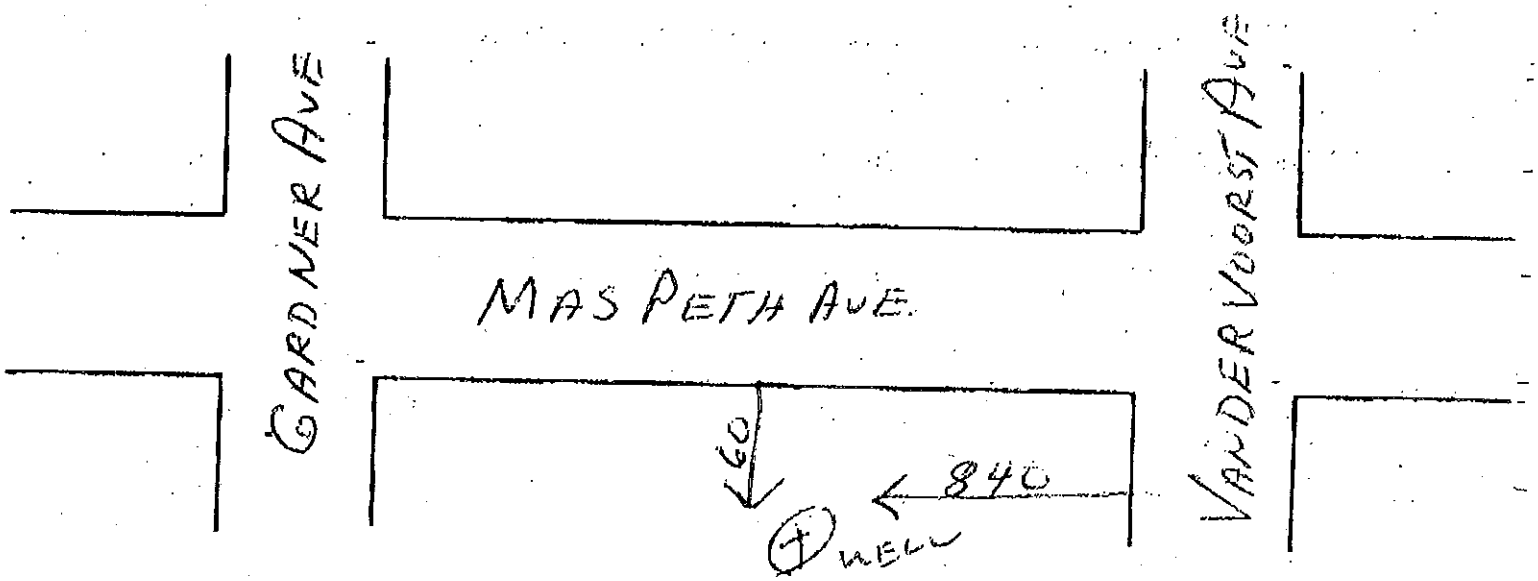
DRILLER [signature]

REGISTRATION NO. 914

NOTE: Show log of well materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job. See instructions as to Well Driller's Registration and Reports.

ORIGINAL—Environmental Conservation Copy

SKETCH OF LOCATION



Locate well with respect to at least two streets or roads, showing distance from corner and front of lot.

Show North Point

CHECK THE TOWN IN WHICH THE PROJECT IS LOCATED:

Nassau County:

☐ Hempstead ☐ North Hempstead ☐ Oyster Bay

Suffolk County:

☐ Babylon ☐ Brookhaven ☐ East Hampton
☐ Huntington ☐ Islip ☐ Riverhead
☐ Shelter Island ☐ Smithtown ☐ Southampton
☐ Southold

STATE OF NEW YORK
DEPARTMENT OF HEALTH
Flanigan Square 547 River Street Troy, New York 12180-2216

Richard F. Daines, M.D.
Commissioner

James W. Clyne, Jr.
Executive Deputy Commissioner

January 20, 2010

Henry Willems
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Re: **On-site Groundwater Pumping Well**
Equity Former MGP Site
Site# 224050
222-254 Maspeth Avenue, Brooklyn, Kings County

Dear Mr. Willems:

I have reviewed the Groundwater Gauging, Development and Sampling Table- Table 1 for the above-referenced site. Based on that review, the data indicates that the on-site pumping well used by the current transfer facility for truck washing and dust suppression contains a 4.8 foot layer of dense non-aqueous phase liquid with a napthalene like odor. In addition, the measuring device was coated in tar when the groundwater sample and gauging/development readings were taken on December 11, 2009 and January 12, 2010. At that time, a sample was collected for chemical analysis and results are pending.

To prevent exposures to this groundwater contamination, we recommend that this well not be used for any purpose at this time. We will discuss with you, any proposed follow up and possible treatment of this well after we receive and review the analytical results.

If you have any questions, please feel free to contact me at (518) 402-7860.

Sincerely,

Albert DeMarco
Public Health Specialist
Bureau of Environmental Exposure Investigation

cc: G. Litwin/J. Crua/file
ec: N. Graber – NYCDOH
B. Devine- MDO
J. O'Connell- DEC Reg. 2
R. Schick / R. Cozzy / G. Cross – DEC Central office

P:\Bureau\Sites\Region_2\KINGS\224050\Pumping well.odt

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.
P.O. Box 707
Locust Valley, NY 11560-0707
Office: (516) 671-8440
Fax: (516) 671-3349
e-mail: finyard@gfnet.com

May 20, 2010

Frances Leung, P.E., Chief
IPP Inspection and Permit Section
Bureau of Wastewater Treatment
NYC EP
96-05 Horace Harding Blvd
Corona, NY 11368

Re: Cooper Tank, 222 Maspeth Avenue, Brooklyn
Industrial Wastewater Discharge Directive No. 09-D3207-1

Dear Ms. Leung,

The non-potable well that Cooper Tank uses for dust control and other purposes was found to have elevated VOC concentrations, and its use was discontinued in January 2010.

As we discussed on May 13, 2010, Cooper Tank plans to install a three stage carbon treatment system to remove organic contaminants from the well water so that it can be brought back on line. Cooper tank will continue its effluent testing program under the Discharge Directive to confirm compliance with the Department's sewer use limits.

If you have any questions feel free to contact me.

Very truly yours,

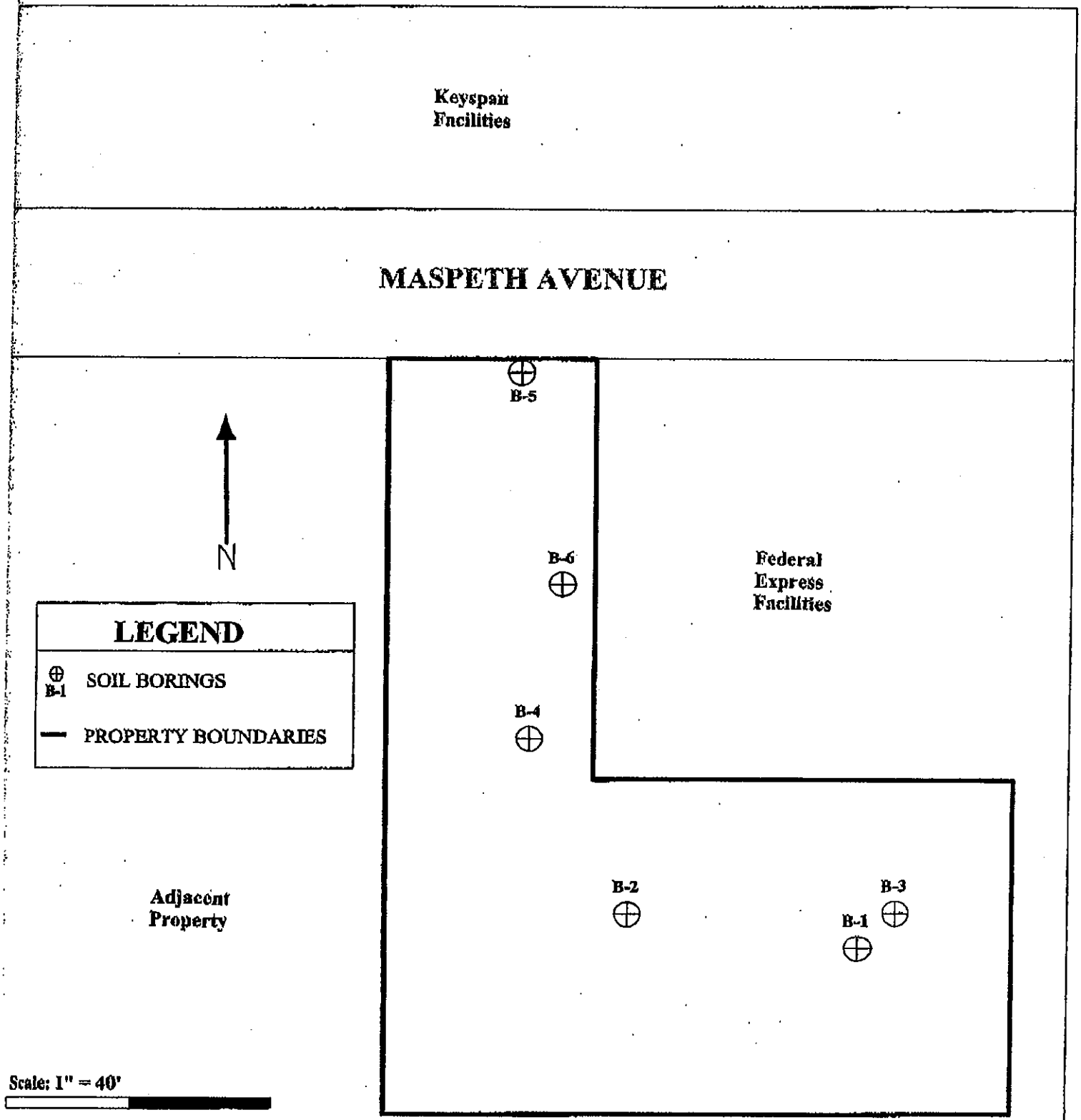
GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

FREDERICK H INYARD, P.E.
Vice President

Appendix D

Soil Boring Logs and Well Construction Logs (Current and Historical)

Historic Locations (on-site)



EEA, Inc.

55 Hilton Avenue
Garden City, New York
(516) 746-4400

Figure 1: Site Location Plan
254 Maspeth Avenue
Brooklyn, New York

Job No.: 04729

Drawn By: FI

Date: 10/14/04

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 1**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): ~9 feet					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4		36	0	Dry		Brown soil, red brick chips, asphalt chips and fine to medium grained, red SAND (fill). Typical asphalt odor; no staining.
4-8	*B-1(4-8')	36	0	Dry to		Same as above with lenses of greenish GRAVEL (parent material?). Typical asphalt odor and no staining.
5	1100			moist		
8-12	*B-1(8-12')	36	5.3	Wet		Black-gray, gravelly red brick chips and soil. Black-gray staining and moderate hydrocarbon odor. At 11', brown fine grained SAND and CLAY with moderate hydrocarbon odor.
	1000					
10						
15						EOB @12'
20						* soil sample collected for laboratory analysis
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 2**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): unknown					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-2 (0-4')	12	0	Dry		Black soil, red brick chips and GRAVEL; remnants of wood pilings at 4'. Creosote odor and black staining.
	1030					
						EOB @4'/Refusal @4' from wood pilings (several refusals)
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 3**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-3 (0-4')	12	0	Dry		Brown fine to medium grained SAND and GRAVEL. No odor or staining.
	1115					
5						EOB @4'/Refusal @4' from wood pilings (several refusals)
10						
						* soil sample collected for laboratory analysis
15						
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 4**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-4 (0-2')	12	0	Dry		Brown soil, tan, medium grained SAND and GRAVEL with red brick chips. Typical odor and no staining.
	1130					
						EOB @4'/Refusal @4' from wood pilings (several refusals)
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04						SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding						LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue						**B - 5**
REMARKS: Inside vacant lot						PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI		DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification		DRILL RIG
		Direct				DRILL METHOD
TYPE	MACROCORE	Push				GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42				
SURFACE ELEVATION: NA		Surface Materials: Gravel				
WATER LEVEL (IN OPEN BOREHOLE): unknown						

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-5 (0-4')	12	0	Dry		Brown soil, fine grained SAND and GRAVEL and asphalt chips. Typical odor and no staining.
	1200					
						EOB @4'/Refusal @4'
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						

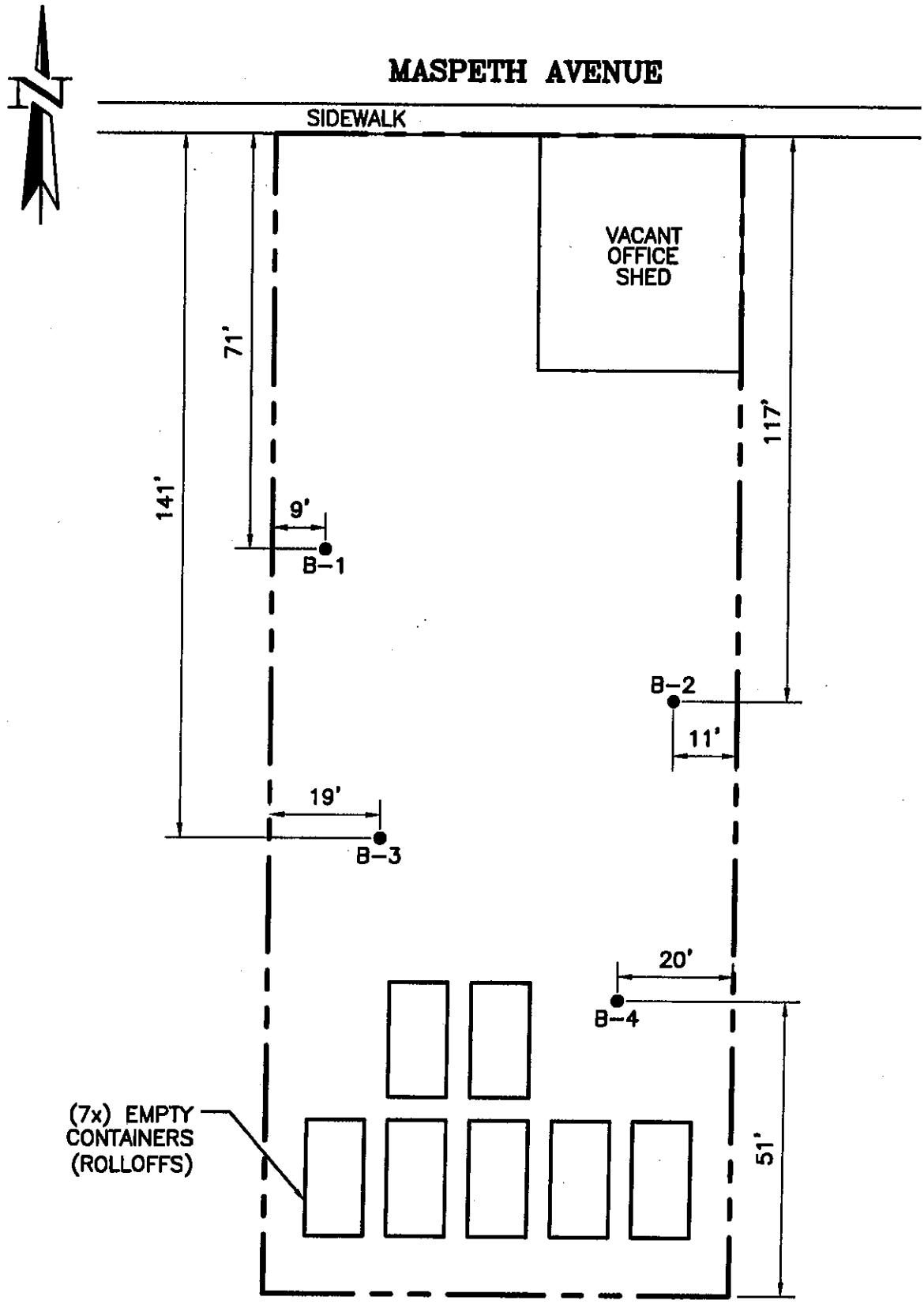
EEA, INC.

55 HILTON AVENUE, GARDEN CITY, NEW YORK

SOIL BORING REPORT LOG

DATE: 9/20/04					SHEET 1 OF 1
CLIENT: Spencer Realty Corp. & Copper Tank & Welding					LOCATION ID#
PROJECT LOCATION: 254 Maspeth Avenue					**B - 6**
REMARKS: Inside vacant lot					PROJECT #04729
DRILLING CONTRACTOR: TSDT, INC.			LOGGED BY FI	DRILLER PD/PR	
EQUIPMENT	SOIL SAMPLER	HAMMER WEIGHT/FALL	Casing Type	Monitor Well Specification	DRILL RIG
		Direct			DRILL METHOD
TYPE	MACROCORE	Push			GEOPROBE LT 54 MACROCORE
SIZE	2 inch O.D.	GH 42			
SURFACE ELEVATION: NA		Surface Materials: Gravel			
WATER LEVEL (IN OPEN BOREHOLE): unknown					

DEPTH (fbg)	SAMPLE & TIME	RECOVERY (inches)	OVA (ppm)	MOISTURE	STRATA	SOIL – ROCK DESCRIPTION – CLASSIFICATION
0-4	*B-6 (0-4')	12	0	Dry to		Black soil, fine grained SAND and GRAVEL with asphalt chips, bricks and nails. Typical odor and possible staining (black).
	1230			moist		
						EOB @4'/Refusal @4'
5						
10						
15						* soil sample collected for laboratory analysis
20						
25						
30						



NOT TO SCALE

LEGEND

● BORING LOCATION

SITE PLAN

COOPER TANK
252 MASPETH AVENUE
BROOKLYN, NEW YORK

S44440A-004
042905

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		9' from western property boundary	
Personnel: Brian Dortch		71' from northern property boundary	
Total Depth: 12'	Depth to Water: 7'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0-1'			Concrete	
1	4.0	12, 14, 9, 16		1-3'	slightly moist	2'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
2								
3	5.5	13, 17, 21, 16	B-1 (3-7)	3-5'	moist	2'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
4								
5	5.2	8, 16, 12, 9		5-7'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
6								
7	3.5	10, 7, 5, 2	B-1 (GW)	7-9'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
8								
9		3, 3, 7, 5		9-11'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		11' from eastern property boundary	
Personnel: Brian Dortch		117' from northern property boundary	
Total Depth: 10'	Depth to Water: 7.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	7, 4, 8, 16		0-2'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
2								
3	2.0	4, 4, 6, 8		2-4'	moist	1'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
4								
5	1.0	4, 6, 8, 13	B-2 (4-8)	4-6'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
6								
7	1.5	7, 9, 8, 13		6-8'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
8								
9	0.0	5, 7, 6, 12		8-10'	saturated	0.5'	Black M soft SILT with wood fragments (Urban fill)	heavy staining and odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

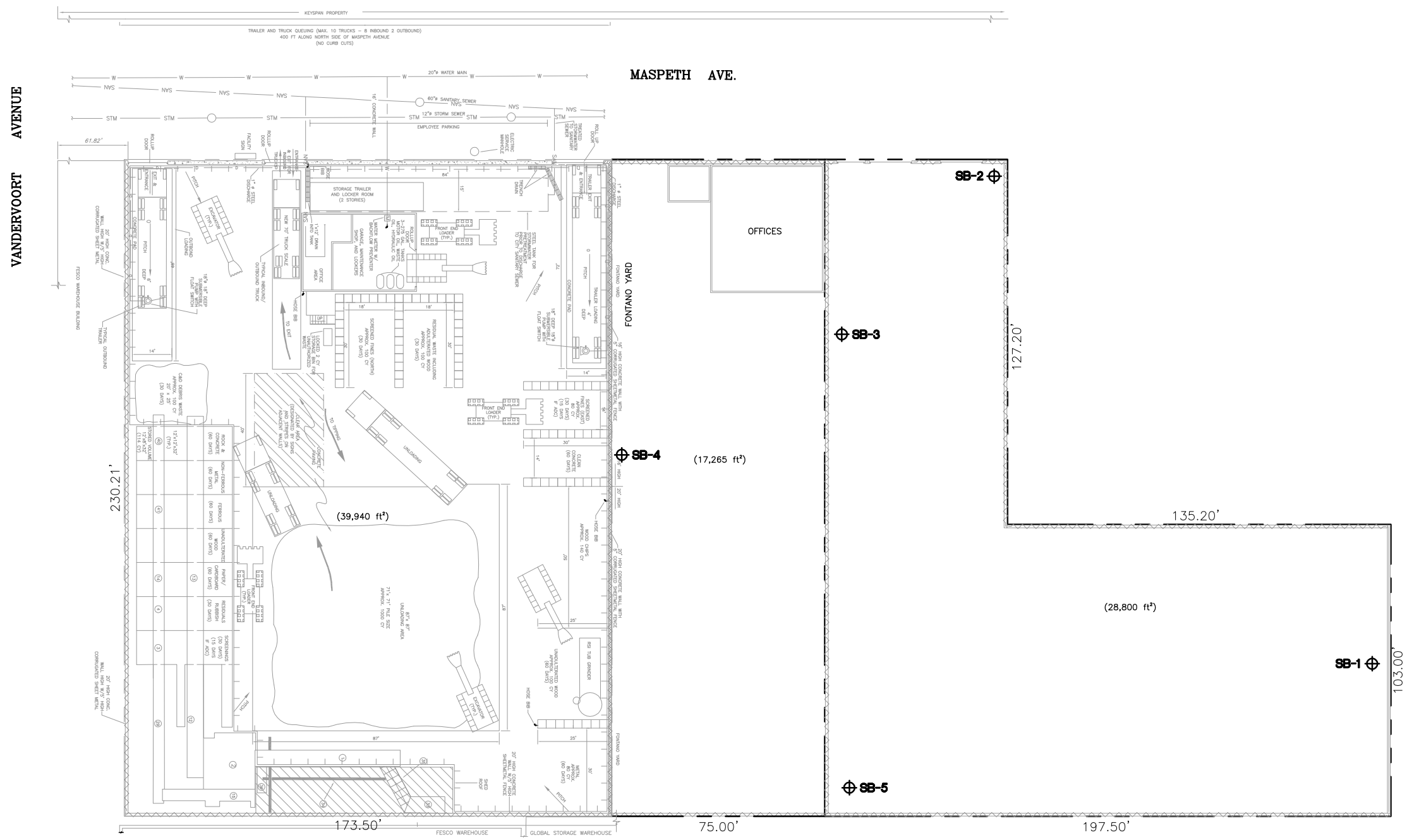
Client: Aris Investment		Boring No.: B-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		19' from western property boundary	
Personnel: Brian Dortch		141' from northern property boundary	
Total Depth: 10'	Depth to Water: 8'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	8, 12, 7, 7		0-2'	slightly moist	1'	Black M soft SILT with wood and stone fragments (Urban fill)	some staining and odor
2								
3	0.5	5, 3, 7, 3	B-3 (2-8)	2-4'	moist	0.5'	Black M soft SILT with wood and plastic fragments (Urban fill)	some staining no odor
4								
5	0.0	3, 3, 6, 3		4-6'	moist	0.0'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
6								
7	1.3	7, 5, 12, 13		6-8'	moist	0.5'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
8								
9	1.0	11, 13, 17, 21		8-10'	saturated	1'	Black M soft SILT with wood fragments (Urban fill)	some staining no odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: Aris Investment		Boring No.: B-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 44440.001		Sheet 1 of 1	
Site Location: 252 Maspeth Ave.		Date: 3/28/2005	
Drilling Co: Tri State		Location of boring (not to scale)	
Method: Hollow Stem Auger - Truck mounted Mobil B-57		20' from eastern property boundary	
Personnel: Brian Dortch		51' from southern property boundary	
Total Depth: 12'	Depth to Water: 9'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	0.0	7, 9, 18, 12		0-2'	slightly moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
2								
3	2.5	23, 12, 9, 16	B-4 (2-6)	2-4'	slightly moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
4								
5	1.0	15, 13, 12, 9		4-6'	moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
6								
7	0.0	9, 7, 8, 12		6-8'	moist	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
8								
9	0.0	13, 9, 12, 12	B-4 (GW)	8-10'	saturated	1'	Black M soft SILT with wood and brick fragments (Urban fill)	some staining and slight odor
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



LEGEND

1	STOCK CONVEYOR
2	VIBRATORY SCREEN
3+4	SCREENING MACHINE
12	CHAIN CONVEYOR
13	BELT CONVEYOR
14	BELT CONVEYOR
15	CHAIN CONVEYOR
29	CHAIN CONVEYOR
33	SURGE FEEDER
34	TAKE AWAY CONVEYOR
35	FINGER SCREEN
36	BIN TO ACCEPT FINES DISCHARGE
40	STONE SEPARATOR
41	MAGNET
	PROPERTY LINE
STM	STORM SEWER
SAN	SANITARY SEWER
	HOSE BIB
	CONCRETE BLOCK WALL (3'x3'x3')
	CONC. WALL W/ CORRUGATED SHEET METAL FENCE
	MISTING SYSTEM
SB-2	SOIL BORING LOCATION

NOTES:

1. SB–1, SB–2, SB–3, AND SB–5 ARE TO BE DRILLED TO A DEPTH OF 30 FEET
2. SB–4 TO BE DRILLED TO A DEPTH OF 40 FEET
3. CONTRACTOR TO RECORD WATER LEVEL
4. FACILITY LAYOUT AND UTILITY INFORMATION BASED ON SEPTEMBER 29, 1993 DRAWING BY CMS GROUP/SHAPIRO

PRELIMINARY

0 20
Scale In Feet

THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.; REUSE ON PROJECT EXTENSIONS OR ANY OTHER PROJECT, OR ALTERATIONS OR ADDITIONS TO THIS PROJECT SHALL BE AT THE USER'S SOLE RISK, AND WITHOUT LIABILITY TO GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C. UNAUTHORIZED ALTERATIONS OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

No.	DESCRIPTION	DATE	BY

REVISIONS

DRAWN: AS	SCALE: 1"=20'
DESIGNED: FHI	JOB No.: 44440.005
APPROVED: FHI	DATE: APR.2006

Gannett Fleming
ENGINEERS AND ARCHITECTS, P.C.
HARRISBURG, PENNSYLVANIA LOCUST VALLEY, NEW YORK

PROJECT
NON PUTRESCIBLE SOLID WASTE TRANSFER STATION
COOPER TANK AND WELDING CORP.
BROOKLYN, NEW YORK

TITLE
PROPOSED SOIL BORING LOCATION PLAN

SHEET No.
1

34691-01.005 041409 PLOT SCALE =

DRILLER'S LOGS

BORING #: SB#1

DATE: September 7, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 15 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 8 feet Perched
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : YES

DRILLER: C. Pedersen

HELPER: E. Bedell

DEPTH FROM	DEPTH TO	RECOVERY	BLOWS / 6 INCHES	SAMPLE DESCRIPTION
0 ft	4 ft	Hand		Brown/black sand, fine, trace of gravel, construction debris
4 ft	6 ft	7 inches	7-4-3-7	Black sand/wood, fine, trace of gravel, fill
6 ft	9 ft	Auger Cuttings		Black sand, medium to fine, 10% gravel, construction debris
9 ft	11 ft	18 inches	13-19-14-5	Black/brown sand, medium to fine, 5% gravel, fill, wet, construction debris, wood, brick, concrete
11 ft	14 ft	Auger Cuttings		Black sand, medium to fine, 10% gravel, wet
14 ft	15 ft	0 inches	13-45-32-50/3"	No Spoon, wet, Refusal at 15'

Moved Hole

0 ft	13 ft	Hand / Auger Cuttings		Black/brown sand, medium to fine, 20% gravel, construction debris, Refusal at 13'

DRILLER'S LOGS

BORING #: SB#1 (3rd hole)

DATE: September 11, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 15 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 9 feet
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : YES

DRILLER: C. Pedersen

HELPER: E. Bedell and S. Pedersen

DEPTH FROM	DEPTH TO	RECOVERY	SAMPLE DESCRIPTION
0 ft	14 ft	Hand / Auger Cuttings	Brown/black sand, fine, 10% gravel, wet at 9', strong odor, construction debris
14 ft	15 ft	Auger Cuttings	Refusal at 15'

DRILLER'S LOGS

BORING #: SB#2

DATE: September 7, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 31 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 8 feet Perched
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : NO

DRILLER: C. Pedersen

HELPER: A. Smith and E. Bedell

DEPTH FROM	DEPTH TO	RECOVERY	BLOWS / 6 INCHES	SAMPLE DESCRIPTION
0 ft	4 ft	Hand		Brown sand, medium to fine, 10% gravel
4 ft	6 ft	18 inches	2-5-9-8	Brown silty sand, fine, trace of gravel, (SM)
6 ft	9 ft	Auger Cuttings		Brown/black sand, medium to fine, 5% gravel
9 ft	11 ft	19 inches	5-12-29-10	Black silty sand, fine, 5% gravel, (SM), wet
11 ft	14 ft	Auger Cuttings		Black sand silty, medium to fine, 5% gravel, wet
14 ft	16 ft	24 inches	1-1-2-2	Grey black peat, very fine, (PT)
16 ft	19 ft	Auger Cuttings		Black sand, fine, wet
19 ft	21 ft	24 inches	2-3-2-2	Black/grey peat, very fine, (PT), wet
21 ft	24 ft	Auger Cuttings		Black sand oil medium to fine, wet
24 ft	26 ft	24 inches	2-5-7-8	Black /grey silty sand/peat, very fine, (PT)
26 ft	29 ft	Auger Cuttings		Black/grey peat, very fine, wet
29 ft	31 ft	20 inches	3-6-6-6	Black grey siltysand, very fine, (SM)

DRILLER'S LOGS

BORING #: SB#3

DATE: September 11, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 31 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 9 feet
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : NO

DRILLER: C. Pedersen

HELPER: E. Bedell and S. Pedersen

DEPTH FROM	DEPTH TO	RECOVERY	BLOWS / 6 INCHES	SAMPLE DESCRIPTION
0 ft	4 ft	Hand		Black/brown sand, medium to fine, 20% gravel, construction debris, fill
4 ft	6 ft	11 inches	7-5-5-8	Brown/black sand, medium to fine, 10% gravel, fill, wood / construction debris
6 ft	9 ft	Auger Cuttings		Black sand, fine, 10% gravel, construction debris / wood
9 ft	11 ft	13 inches	7-7-8-12	Black sand, coarse to medium to fine, 5% gravel, wet, fill
11 ft	14 ft	Auger Cuttings		Black sand, coarse to medium to fine, 5% gravel, wet
14 ft	16 ft	0 inches	1-1-1-2	No Recovery
16 ft	19 ft	Auger Cuttings		Black silty sand, fine, wet, odor
19 ft	21 ft	4 inches	2-2-2-1	Black silty sand, fine, (SM), wet, odor
21 ft	24 ft	Auger Cuttings		Black silty sand, fine, wet, odor
24 ft	26 ft	8 inches	2-2-2-5	Black/brown/grey peat/silty sand/clay, fine, (PT) / (SM), wet, odor
26 ft	29 ft	Auger Cuttings		Black sand, fine, wet, odor
29 ft	31 ft	13 inches	4-6-9-10	Grey/brown sand, fine, (SW), wet, strong odor / visible product

DRILLER'S LOGS

BORING #: SB#4

DATE: September 12, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 31 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 9 feet
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : NO

DRILLER: C. Pedersen

HELPER: A. Smith and S. Pedersen

DEPTH FROM	DEPTH TO	RECOVERY	BLOWS / 6 INCHES	SAMPLE DESCRIPTION
0 ft	4 ft	Hand		Black/brown garbage/fill, medium to fine, 10% gravel
4 ft	6 ft	14 inches	5-4-8-32	Black garbage/wood/plastic/ , fill
6 ft	9 ft	Auger Cuttings		Black sand/garbage, fine
9 ft	11 ft	0 inches	12-7-9-7	No Recovery
11 ft	14 ft	Auger Cuttings		Black sand/garbage, fine
14 ft	16 ft	12 inches	8-6-3-2	Black coal/ash, fine, fill, wet, odor
16 ft	19 ft	Auger Cuttings		Black sand, medium, wet
19 ft	21 ft	2 inches	6-5-4-5	Black coal/ash, fine, fill, wet, odor
21 ft	24 ft	Auger Cuttings		Black silty sand, fine, wet, strong odor
24 ft	26 ft	15 inches	2-3-4-6	Black/grey peat/clay, fine, (PT) / (SC), wet, odor
26 ft	29 ft	Auger Cuttings		Black silty sand, fine, wet, strong odor
29 ft	31 ft	24 inches	5-6-6-8	Grey sand, fine, (SW), wet

DRILLER'S LOGS

BORING #: SB#5

DATE: September 11, 2006
SITE: Cooper Tank and Welding
252-254 Maspeth Ave., Brooklyn, NY

CONSULTANT: Gannett Flemings
Locust Valley, NY

DEPTH DRILLED: 31 feet
CORING DEVICE: 2" X 24"
HAMMER DROP: 30 inches
DRILLING METHOD: Hollow Stem Auger 4 1/4"

DEPTH TO WATER: 9 feet
HAMMER WEIGHT: 140 lbs.
WELL/BORING GROUTED : NO

DRILLER: C. Pedersen

HELPER: E. Bedell and S. Pedersen

DEPTH FROM	DEPTH TO	RECOVERY	BLOWS / 6 INCHES	SAMPLE DESCRIPTION
0 ft	4 ft	Hand		Brown sand, coarse to medium to fine, 10% gravel, construction debris
4 ft	6 ft	12 inches	7-6-21-4	Brown sand/fill, medium to fine, 10% gravel, fill
6 ft	9 ft	Auger Cuttings		Brown/black sand/fill, medium to fine, 10% gravel, odor
9 ft	11 ft	13 inches	7-6-3-3	Black silty sand, fine, 5% gravel, fill, wet, odor
11 ft	14 ft	Auger Cuttings		Black silty sand, fine, wet, odor
14 ft	16 ft	12 inches	2-2-Push	Black silty sand/peat, fine, trace of gravel, (PT), wet, oil on top of peat
16 ft	19 ft	Auger Cuttings		Black silty sand, fine, trace of gravel, wet
19 ft	21 ft	8 inches	1-Push	Black silty sand/peat, fine, (PT), wet
21 ft	24 ft	Auger Cuttings		Black silty sand, fine, wet
24 ft	26 ft	12 inches	2-2-3-4	Black/grey silty sand peat, fine, (SM) / (PT), wet
26 ft	29 ft	Auger Cuttings		Black sitly sand, fine, wet
29 ft	31 ft	15 inches	7-12-16-19	Grey silty sand, fine, (SM), strong odor

RI Logs

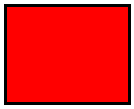
250 Apollo Drive Drive
Chelmsford, Massachusetts 01824

LEGEND

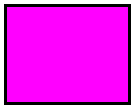
Boring Logs
Monitoring Well Logs
Test Pit Logs

Project Name: Equity Former MGP
Project Number: 60137362
Location: Brooklyn, NY
Client: National Grid

Visual Impacts



NAPL SATURATED



COATED MATERIAL, LENSES



BLEBS, GLOBS, SHEEN



STAINING, ODOR



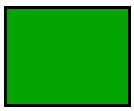
HARDENED NAPL



PETROLEUM IMPACTS SATURATION & SHEENS



PETROLEUM IMPACTS STAINING & ODORS



NO OBSERVED IMPACTS



PURIFIER WASTE AND ODOR

Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Boring and Well Construction Log

Location ID: MW-01A

Sheet 1 of 1

Client: National Grid	**Boring Location:** Vandervoort Ave, bet Maspeth and Rewe	
Project #: 60273164	**Northing:** 686456.6 **Easting:** 648929.4	**Total Boring Depth (ft bgs):** 16.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 3
Site Loc: 10/22/2009	**Ground Elevation (ft NAVD 88):** 12.92	**Soil Sample Collection Method:** DP
Start Date: 10/22/2009 **Finish Date:** 10/22/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 70-80
Logged By: Jennifer Pfeiffer	**Drilling Method:** Geoprobe	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-1C/MW-1C for Soil and Rock Descriptions			Flush Mount Cover
2										Bentonite Grout
4										Bentonite
6										1" Diam. Sch. 40 PVC Riser
8										#2 Sand
10										1" Diam. 0.010 PVC Pre-Pack Well Screen
12										
14										
16										1" Diam. PVC Sump

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

AECOM

Boring and Well Construction Log

Location ID: MW-01B

Client: National Grid	**Boring Location:** Vandervoort Ave, bet Maspeth and Rewe	
Project #: 60273164	**Northing:** 686440.8 **Easting:** 648936.0	**Total Boring Depth (ft bgs):** 42.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 3
Site Loc: 11/25/2009	**Ground Elevation (ft NAVD 88):** 12.22	**Soil Sample Collection Method:** DP
Start Date: 11/25/2009 **Finish Date:** 11/25/2009	**Drilling Company:** Fenley and Nicol	**Well Screen Intervals (ft bgs):** 30-40
Logged By: Ron Kantre	**Drilling Method:** Geoprobe	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-1C/MW-1C for Soil and Rock Descriptions			Flush Mount Cover
2										
4										1" Diam. Sch. 40 PVC Riser
6										
8										
10										
12										Bentonite Grout
14										
16										
18										
20										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

AECOM

Boring and Well Construction Log

Location ID: MW-01B

Client: National Grid	**Boring Location:** Vandervoort Ave, bet Maspeth and Rewe	
Project #: 60273164	**Northing:** 686440.8 **Easting:** 648936.0	**Total Boring Depth (ft bgs):** 42.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 3
Site Loc: 11/25/2009	**Ground Elevation (ft NAVD 88):** 12.22	**Soil Sample Collection Method:** DP
Start Date: 11/25/2009 **Finish Date:** 11/25/2009	**Drilling Company:** Fenley and Nicol	**Well Screen Intervals (ft bgs):** 30-40
Logged By: Ron Kantre	**Drilling Method:** Geoprobe	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
22										Bentonite Grout
24										
26										
28										Bentonite
30										#2 Sand
32										
34										
36										1" Diam. 0.010 PVC Pre-Pack Well Screen
38										
40										
42										1" Diam. PVC Sump

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-1C/MW-1C

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686446.6 **Easting:** 648934.3	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/19/2009	**Ground Elevation (ft NAVD 88):**	**Well Screen Intervals (ft bgs):** 70-80
Start Date: 10/19/2009 **Finish Date:** 11/24/2009	**Drilling Company:** Finley and Nicol	**Well Sump Intervals (ft bgs):** 80-81
Logged By: Joshua Millard	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0										Flush Mount Cover
			1.2		Concrete		0-0.4': CONCRETE PAD (sidewalk). FILL			6" Diam. Sch. 40 PVC Riser
2			2.2				1.0'-2.0': SAA			
	NA	NA	0.8				2.0'-3.0': SAA: light brown, more brick.			
4			0.6				3.0'-4.0': SAA			
							4.0'-4.2: SAA: lots of brick.			
6			14.6				5'-6.5': GRAVELLY SAND (Fill): fine sand, 5% medium sand, 20% gravel, dry, reddish brown, medium dense.			
8	2.6/5.0	NA					6.5'-10': GRAVELLY SAND (Fill): sand, 20% gravel, grayish brown, trace black at 6.5', dense, trace fine gravel sized brick.			
			10.1							
10										
			11.1		FILL		10'-11.5': SAA 0.4'-1.0': GRAVELLY SAND (Fill): medium sand, 30% gravel, dry, brown, whole and crushed brick.			
12							11.5'-15'-GRAVELLY SAND (Fill): sand and gravel, fine broken glass, trace red brick, plastic, and wood debris.			
	4/5.0	NA	7							
14										
16			17.1				15'-20': GRAVELLY SAND (Fill): fine to medium sand, 20% fine gravel, angular cinders and partially cemented ash, loose, wet, black. 16'-17': fine sand, brown and tan.			
	3.5/5.0	NA								
18			14.5							
20										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction 2.)Fenley and Nicol miscalculated drilling depths and did not collect a soil sample from 90 to 95 feet bgs 3.)Boring was converted into monitoring well MW 1C. 4.)Monitoring wells MW 1A and MW 1B were installed in adjacent borings. 5.) See monitoring well logs MW 1A, MW 1B, and MW 1C for well construction details.

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable 9.) WOR - Weight of Rods (drilling)
2.) ft - feet 10.) WHO - Weight of Hammer
3.) bgs - below ground surface 11.) NR - No Recovery
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-1C/MW-1C

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686446.6 **Easting:** 648934.3	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/19/2009	**Ground Elevation (ft NAVD 88):**	**Well Screen Intervals (ft bgs):** 70-80
Start Date: 10/19/2009 **Finish Date:** 11/24/2009	**Drilling Company:** Finley and Nicol	**Well Sump Intervals (ft bgs):** 80-81
Logged By: Joshua Millard	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22	5/5.0	NA	15.4		PT		MEADOW MAT	23-25		
			13.6				20'-23': FIBROUS PEAT (PT): fibrous peat, 5% clay, damp, reddish brown, stiff, strong hydrogen sulfide-like odor.			
24			85				23'-24.2': FRIABLE PEAT (PT): friable peat, black to dark brown.			
			46.8		SW		INTERMEDIATE SAND			
26	4.5/5.0	NA	13.5				25'-26.5': INTERBEDDED SAND (SW): fine to medium sand interbedded with very fine beds of silt and beds of organic fibers (< 1mm thick). 24.2'-25': SAND (SW): fine sand, wet, grey, well sorted, moderately loose.			
			13.8		SP		27.25'-30': GRAVELLY SAND (SP): sand, 20% gravel, 10% fine sand and silt, wet, grey brown changing to moderate brown, poorly sorted, medium dense.			
28			17.8							
30										
32	3.7/5.0	NA	18.9				30'-35': GRAVELLY SAND (SP): fine sand, 15% medium sand, 10% sub-angular fine gravel, damp, dense, very poorly sorted. Three-inch thick fine to medium sand bed at 31', wet, loose.			
			15.1				26.5'-27.25':SAND (SP): fine sand, 20% medium sand, <5% gravel, wet, dark brown.			Bentonite Grout
34										
36	4/5.0	NA	20.5				35'-37': SAA			
			14.5				37'-38': SAND (SP): medium to fine sand, becoming coarser grained.			
38										
40							38'-40': GRAVEL (GP): angular, fine to medium gravel.			

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction 2.)Fenley and Nicol miscalculated drilling depths and did not collect a soil sample from 90 to 95 feet bgs 3.)Boring was converted into monitoring well MW 1C. 4.)Monitoring wells MW 1A and MW 1B were installed in adjacent borings. 5.) See monitoring well logs MW 1A, MW 1B, and MW 1C for well construction details.

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4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-1C/MW-1C

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686446.6 **Easting:** 648934.3	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/19/2009	**Ground Elevation (ft NAVD 88):**	**Well Screen Intervals (ft bgs):** 70-80
Start Date: 10/19/2009 **Finish Date:** 11/24/2009	**Drilling Company:** Finley and Nicol	**Well Sump Intervals (ft bgs):** 80-81
Logged By: Joshua Millard	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										Bentonite Grout
			16.1				40'-45': SANDY GRAVEL (GP): sub-rounded fine gravel, 40% medium sand, wet, tannish brown, loose.			
42	5/5.0	NA								
			5.8							
44										
			12.4				45'-47.5': SAA: more gravel.			
46										
	4.5/5.0	NA	12.2							
48							47.5'-48': GRAVEL (GP): sub-angular fine gravel, 10% medium to coarse sand.			
			10.7		GP		48'-50': SAND (SW): fine sand, <1% gravel, wet, brown, well sorted, medium dense (well defined contact between units).			
50										
			11.2				38'-40': GRAVEL (GP): angular, fine to medium gravel. 50'-51.5': SAA: grading to silt with <5% clay.			
52										
	2.5/5.0	NA					51.5'-55': SANDY GRAVEL (GP): rounded gravel, fine to coarse sand, loose.			
			12.2							
54										
			9				55'-60': SAND AND GRAVEL (GP): sand and gravel, loose.			
56										
	3.2/5.0	NA								
58			11.7							
60										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction 2.)Fenley and Nicol miscalculated drilling depths and did not collect a soil sample from 90 to 95 feet bgs 3.)Boring was converted into monitoring well MW 1C. 4.)Monitoring wells MW 1A and MW 1B were installed in adjacent borings. 5.) See monitoring well logs MW 1A, MW 1B, and MW 1C for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-1C/MW-1C

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686446.6 **Easting:** 648934.3	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/19/2009	**Ground Elevation (ft NAVD 88):**	**Well Screen Intervals (ft bgs):** 70-80
Start Date: 10/19/2009 **Finish Date:** 11/24/2009	**Drilling Company:** Finley and Nicol	**Well Sump Intervals (ft bgs):** 80-81
Logged By: Joshua Millard	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
60										Bentonite Grout
62	0/5.0	NA	NA		NR		60'-65': No Recovery.			
64										
66	1.5/5.0	NA	8.5		SW		65'-70': SAND (SW): fine sand, wet, brown. 70'-75': No Recovery			Bentonite
68										
70										#2 Sand
72	0/5.0	NA	NA							
74										
76	5/5.0	NA	20.1		SP		77'-80': moderate to light sheen and naphthalene-like odor. One-inch NAPL saturated lenses at 78' and 78.25', and 79'-80'. 75'-80': GRAVELLY SAND (SP): rounded medium to coarse sand, 30% fine gravel, wet, loose, poorly sorted.			2" Diam. 0.020 PVC Well Screen
78			413							
80										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction 2.)Fenley and Nicol miscalculated drilling depths and did not collect a soil sample from 90 to 95 feet bgs 3.)Boring was converted into monitoring well MW 1C. 4.)Monitoring wells MW 1A and MW 1B were installed in adjacent borings. 5.) See monitoring well logs MW 1A, MW 1B, and MW 1C for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-1C/MW-1C

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686446.6 **Easting:** 648934.3	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/19/2009	**Ground Elevation (ft NAVD 88):**	**Well Screen Intervals (ft bgs):** 70-80
Start Date: 10/19/2009 **Finish Date:** 11/24/2009	**Drilling Company:** Finley and Nicol	**Well Sump Intervals (ft bgs):** 80-81
Logged By: Joshua Millard	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
80										
			537				80'-81.5': SAND (SP): fine to medium sand, 10% coarse sand, wet, loose, NAPL blebs.	80-81.5		1" Diam. PVC Sump
							75'-80': GRAVELLY SAND (SP): rounded medium to coarse sand, 30% fine gravel, wet, loose, poorly sorted.			
82			435							
	3.3/5.0	NA			GP		82.8'-85': SAND (SW): fine sand, 5% medium sand, wet, orange tan and brown, iron oxide stained, well sorted, light naphthalene-like odor, very thin (<1mm) NAPL saturated lens at 83.5'.			
84			458				81.5'-82.8': SANDY GRAVEL (GP): rounded fine gravel. 30% coarse sand, 10% medium to fine sand, wet, dense, residual NAPL, moderate to light sheen, strong naphthalene-like odor, NAPL saturated at 82' in 1.5" lens.			
86			200		SW		85'-88.7': SAND (SW): fine to medium sand, wet, medium dense, moderate sheen, blebs, naphthalene-like odor, 0.33" NAPL saturated lenses at 87.9' and 88.15'.			
	4.6/5.0	NA								
88			281							
			102							
90										
							90'-95': No Sample collected.			
92										
	NA	NA	NA		SP		88.7'-90': SAND (SP): medium sand, 10% fine sand, wet, medium dense, moderate to light sheen, light naphthalene-like odor, few NAPL blebs.			
94										
							95'-96.5': SAND (SP): fine sand, 20% silt, 10% medium to coarse sand, wet, iron oxide stained, slight naphthalene-like odor.			
96										
			22.4							
98	3.3/5.0	NA						98-100		
			12.4		CL		96.9'-100': SILTY CLAY (CL): clay and silt, grey, stiff, dry.			
100										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction 2.)Fenley and Nicol miscalculated drilling depths and did not collect a soil sample from 90 to 95 feet bgs 3.)Boring was converted into monitoring well MW 1C. 4.)Monitoring wells MW 1A and MW 1B were installed in adjacent borings. 5.) See monitoring well logs MW 1A, MW 1B, and MW 1C for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

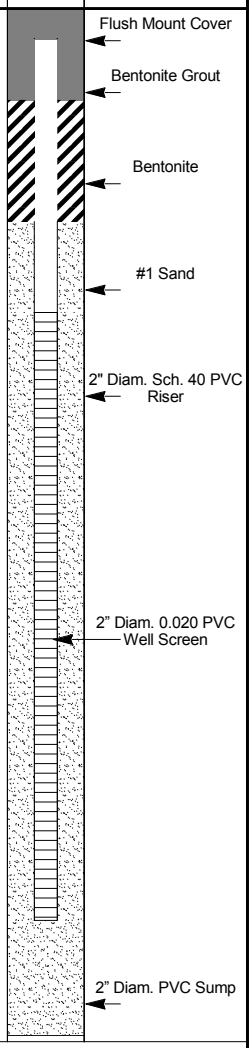
Boring and Well Construction Log

Location ID: MW-02A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	
Project #: 60273164	**Northing:** 686714.3 **Easting:** 649124.3	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 10/15/2009	**Ground Elevation (ft NAVD 88):** 12.38	**Soil Sample Collection Method:** DP
Start Date: 10/15/2009 **Finish Date:** 10/15/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-2B/MW-2B for Soil and Rock Descriptions			



Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-2B/MW-2B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 52.0
Project #: 60273164	**Northing:** 686716.3 **Easting:** 649128.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/12/2009	**Ground Elevation (ft NAVD 88):** 12.41	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/12/2009 **Finish Date:** 10/15/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0										Flush Mount Cover
					Concrete		0'-1.5': CONCRETE PAD.			2" Diam. Sch. 40 PVC Riser
2			1		FILL		FILL			
	NA	NA	1.5				2.0'-3.0': SAND (Fill): sand, 50% brick, pieces of concrete, dark brown, loose, angular.			
4			1.7				3.0'-4.0': SAA			
			1.7				4.0'-5.0: SAA			
6	0.6/1.0	21 17	1.8				5.0'-6.0': BRICK and SAND (Fill): mixed brick and concrete.	5-5		
	0.6/2.0	9 8 8 9	2.0				6.0'-8': SAA, wet at 7'.			
8										
	0.2/2.0	5 4 2 2	2.5				8.0'-10': GRAVEL (Fill): black stained silt and crushed brick.			
10					FILL					
	0.7/2.0	2 2 4 5	199				1.5'-2.0': SAND (Fill): medium to fine sand, gravel, moist, loose, piece of concrete, brick, 10'-12': SLAG and Ash (Fill): coarse sand to silt size slag and ash, 10% silt, wet, some crushed brick, black stained, moderate sheen and naphthalene-like odor.			
12										
	0.65/2.0	2 2 3 4	807				12'-14': SAA: strong naphthalene-like odor, some dark NAPL blebs.			Bentonite Grout
14										
	1.5/2.0	1 1 1 1	1201				14'-16': SAND (Fill): fine to medium sand, 10% silt, wet, brown, soft, moderate naphthalene-like odor, some black staining, crushed brick at 16'.	14-16		
16										
	1.5/2.0	1 1 1 1	578				16'-18': GRAVELLY SAND (Fill): fine sand, 20% gravel, 10% silt, wet, grey, soft, trace wood-chips, pockets of moderate sheen, strong naphthalene-like odor, NAPL coated gravel from 16 - 17.8', one inch lens of dark NAPL blebs at 17.25.			
18										
	0.5/2.0	1 1 1 1	371				MEADOW MAT 17.8'-20': FIBROUS PEAT (PT): fibrous peat, 10% silt, damp, reddish brown, soft.			
20										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) SB-2A encountered a thick concrete slab at 1.5 ft bgs, and the location was abandoned. 3.) Boring was converted into monitoring well MW-2B. 4.) Monitoring well MW-2A was installed in an adjacent boring. 5.) See monitoring well logs MW-2A and MW-2B for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-2B/MW-2B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 52.0
Project #: 60273164	**Northing:** 686716.3 **Easting:** 649128.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/12/2009	**Ground Elevation (ft NAVD 88):** 12.41	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/12/2009 **Finish Date:** 10/15/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20							MEADOW MAT			Bentonite Grout
22	1.2/2.0	1 1 1 2	288				20'-22': SAA: stiffer.			
24	1.4/2.0	2 2 2 1	201		PT		22'-24': SAA			
26	NA	NA					17.8'-20': FIBROUS PEAT (PT): fibrous peat, 10% silt, damp, reddish brown, soft.			
28	1.7/2.0	2 4 5 7	413 57.5		SW		26'-27.5': SAA INTERMEDIATE SAND			Bentonite
30	1.4/2.0	7 11 15 40	17.9 83.7		ML SW		27.5'-28': SAND (SW): fine sand, wet, grey, soft, well sorted, some very thin roots. 28'-29': SANDY SILT (ML): silt, 10% fine sand, 10% clay) grey, medium stiff, light naphthalene-like odor. 29'-30': SAND (SW): medium sand, wet, grey, 1/2'4" NAPL saturated lenses.			#1 Sand
32	0.9/2.0	2 2 3 2	126		ML		30'-32': SAND and SILT (ML): interbedded 3" thick beds of sand and silt, 1/2'4" NAPL saturated lenses.			
34	1.1/2.0	8 10 11 10	23.1							
36	0.9/2.0	3 4 6 7	23.9		SW		34'-34': INTERBEDDED SAND (SW): interbedded fine and medium sand beds, 1/2'4" to 1" thick, few 1/2'8" silt beds, wet, grey, marine odor. 32'-33': SAND (SW): fine sand, 10% medium sand, wet, grey, medium dense, marine odor.			2" Diam. 0.020 PVC Well Screen
38	1.4/2.0	4 7 14 10	158 1460				36'-38": SAA, 1/2'2" NAPL saturated sand lens at 37'.	37-38		
40	1.1/2.0	4 4 7 8	291				38'-40': INTERBEDDED SAND (SP):interbedded fine sand and very fine sand, 10% medium sand, 1/2'8" thick, few < 1mm thick silt beds.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) SB-2A encountered a thick concrete slab at 1.5 ft bgs, and the location was abandoned. 3.) Boring was converted into monitoring well MW-2B. 4.) Monitoring well MW-2A was installed in an adjacent boring. 5.) See monitoring well logs MW-2A and MW-2B for well construction details.

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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-2B/MW-2B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 52.0
Project #: 60273164	**Northing:** 686716.3 **Easting:** 649128.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/12/2009	**Ground Elevation (ft NAVD 88):** 12.41	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/12/2009 **Finish Date:** 10/15/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	0.6/2.0	1 2 3 4	92		SP		**INTERMEDIATE SAND** 40'-42': SAA 38'-40': INTERBEDDED SAND (SP):interbedded fine sand and very fine sand, 10% medium sand, 1/2'8" thick, few < 1mm thick silt beds.	42-44		1" Diam. PVC Sump
44	1.8/2.0	NA	4.9				**INTERMEDIATE CLAY**			
46	0.9/2.0	5 5 5 8			CL		44'-46': SAA 42'-44': INTERBEDDED SILT and CLAY (CL): interbedded clay and silt beds, some very thin (<1mm) thick, fine sand beds, wet, grey, moderately plastic, soft.			
48	0.6/2.0	NA	3.2				46'-48': SAA			
50	1.8/2.0	6 7 6 9	1				48'-49' SAA			
52	2/2.0	4 5 4 6	1		CH		49'-50': CLAY (CH): clay, sand, and silt in tightly packed and thin varves, clay is grey, silt is moderate brown, unit is stiff and very plastic.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) SB-2A encountered a thick concrete slab at 1.5 ft bgs, and the location was abandoned. 3.) Boring was converted into monitoring well MW-2B. 4.) Monitoring well MW-2A was installed in an adjacent boring. 5.) See monitoring well logs MW-2A and MW-2B for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: MW-03A

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	
Project #: 60273164	**Northing:** 686737.4 **Easting:** 649228.4	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/2/2009	**Ground Elevation (ft NAVD 88):** 11.93	**Soil Sample Collection Method:** DP
Start Date: 11/2/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Jennifer Pfeiffer	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-3B/MW-3B for Soil and Rock Descriptions			Flush Mount Cover
										Bentonite Grout
2										Bentonite
										2" Diam. Sch. 40 PVC Riser
4										#1 Sand
6										
8										
10										2" Diam. 0.020 PVC Well Screen
12										
14										
16										2" Diam. PVC Sump

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-3B/MW-3B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 48.0
Project #: 60273164	**Northing:** 686735.8 **Easting:** 649224.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.12	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/29/2009 **Finish Date:** 10/21/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0										
			0				FILL	0-2		Flush Mount Cover
			0				1.0'-2.0': GRAVELLEY SAND (Fill): sand, 30% gravel, dry, brown, bricks.			Bentonite Grout
2										
	NA	NA	0				2.0'-3.0': SAND (Fill): medium to fine sand, 10% gravel and cobbles, damp, brown.			
			0				3.0'-4.0': SAND (Fill): fine sand, damp, brown.			
4										
			0				4.0'-5.0': SAND (Fill): medium to fine sand, damp, brown.	4-5		
	0.3/1.0	5								
6		5					5.0'-6.0': SILT and SAND (Fill): sand and silt, piece of brick in tip of spoon.			
		6					6.0'-8.0': SAND, SILT, and GRAVEL (Fill): sand, 30% silt and gravel, wet at 7.5', crushed brick.			
	0.7/2.0	9	3							
		12								
8		29								
		9					8.0'-10.0': (Fill): No Recovery.			
	0/2.0	14			FILL		0'-1.0': GRAVELLY SAND (Fill): sand, 30% gravel, cobbles, dry, brown.			
		25								
10		7								
		7					10'-12': GRAVELLY SAND (Fill): sand, 40% angular gravel, wet, black, loose, 20-50% slag and cinders, some NAPL coating, moderate sheen, moderate naphthalene-like odor.			
	1.45/2.0	25	391							
		21								
12		10								
		5					12'-14': GRAVELLY SAND (Fill): sand, 30% sub-angular gravel, 10% very fine and silt, wet, dark brown, mucky, finely crushed brick, spotty heavy sheen, moderate, naphthalene-like odor.			
	0.8/2.0	5	36.8							Bentonite Grout
		5								
14		6								
		2					MEADOW MAT			
	0.7/2.0	3	329							
		1								
16		1			OH		14'-16': ORGANIC CLAY (OH): clay, 30% silt, 10% organic fibers (light tan roots - horizontal), wet, grey, soft, partial dark brown NAPL coating on some plant fibers, trace naphthalene-like odor.			
		1					16'-17': SAA			
	1.7/2.0	1	256							
		1			PT					
18		1					17'-17.5': FRIABLE PEAT (PT): friable peat, damp, dark brown.			
		3								
	0/2.0	3								
		4					17.5'-18': ORGANIC CLAY (OH): clay, 30% organics.			
20		5								

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring terminated at 48 ft bgs to prevent creating a preferential pathway for tar to migrate vertically. 3.) See boring log SB-3C for soil descriptions below 48 ft bgs. 4.) Boring was converted into monitoring well MW-3B. 5.) Monitoring wells MW-3A and MW-3C were installed in adjacent borings. 6.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

Definitions:
1.) NA - Not Applicable
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-3B/MW-3B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 48.0
Project #: 60273164	**Northing:** 686735.8 **Easting:** 649224.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.12	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/29/2009 **Finish Date:** 10/21/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										Bentonite Grout
22	1.4/2.0	1 1 1 1	72.2		OH		20'-22': ORGANIC CLAY (OH): clay, 10% silt, 10% plant fibers, 5% sea shells, wet, grey, plastic.			
24	1.3/2.0	1 1 1 2	97.8		OH CH		17.5'-18': ORGANIC CLAY (OH): clay, 30% organics. 22'-23': SAA 23'-23.5': ORGANIC CLAY (OH): clay, 10% plant fibers, no sea shells.			
26	1/2.0	9 7 8 12	130		CH SW		23.5'-24': CLAY (CH): clay, 10% silt, soft, plastic. INTERMEDIATE SAND 24'-26': SAND (SW): medium sand, 5% coarse sand, wet, grey, loose, few very thin roots from 24'-25'.			
28	1.2/2.0	5 5 7 7	301		SW					Bentonite
30	0.9/2.0	4 3 4 9	482		SP		26'-28': SAND (SP): fine sand, 10% medium sand, wet, grey, non-dense, NAPL coating at 27', 1/2'4" NAPL saturated lens in medium sand at 27.5', heavy sheen. 28'-30': SAND (SP): fine sand, 20% medium sand, trace bedding, wet, NAPL coated grains and heavy sheen from 28-28.5', NAPL saturated from 28.5-29'.			#1 Sand
32	1/2.0	4 5 4 5	678		SW		30'-32': SAND (SW): interbedded fine and medium sand, wet, grey, medium sand is in 1/2'4" beds saturated with NAPL.			
34	1.2/2.0	7 11 12 14	347		SP		32'-34': SAND (SP): interbedded fine and medium sand, 5% coarse sand, 1% gravel, wet, grey, 1/2'8" medium sand beds NAPL saturated at 33' and 33.5', strong naphthalene-like odor. 34'-35': SAA			
36	1/2.0	3 5 6 8	2157		SW		35'-36': SAND (SW): fine sand, 10% medium sand, NAPL saturated.			2" Diam. 0.010 PVC Well Screen
38	1.5/2.0	7 8 14 8	2460		SP		36'-37.5': SAND (SP): medium sand, 40% coarse sand, becoming coarse with depth, NAPL saturated.	36-38		
40	1.4/2.0	3 4 2 4	1693				38'-40': SANDY SILT (ML): interbedded silt (grey) and sand in 1/2'8 - 1" beds, sand beds are NAPL saturated. 37.5'-38': SAND (SW) fine sand, 20% medium sand, NAPL saturated.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring terminated at 48 ft bgs to prevent creating a preferential pathway for tar to migrate vertically. 3.) See boring log SB-3C for soil descriptions below 48 ft bgs. 4.) Boring was converted into monitoring well MW-3B. 5.) Monitoring wells MW-3A and MW-3C were installed in adjacent borings. 6.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

Definitions:
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-3B/MW-3B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 48.0
Project #: 60273164	**Northing:** 686735.8 **Easting:** 649224.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.12	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/29/2009 **Finish Date:** 10/21/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	0.6/2.0	2 4 4 6	242				40'-42': SAA: beds are thinned (2m), strong naphthalene-like odor.			1" Diam. PVC Sump
44	0.7/2.0	3 3 4 5	21.8		SW		42'-44': SAA: few 1" sand beds.			
46	0/2.0	10 12 14 17					37.5'-38': SAND (SW) fine sand, 20% medium sand, NAPL saturated.			
48	0.5/2.0	6 8 7 7	0				46'-48': SAA	46-48		

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring terminated at 48 ft bgs to prevent creating a preferential pathway for tar to migrate vertically. 3.) See boring log SB-3C for soil descriptions below 48 ft bgs. 4.) Boring was converted into monitoring well MW-3B. 5.) Monitoring wells MW-3A and MW-3C were installed in adjacent borings. 6.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-3C/MW-3C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 80.0
Project #: 60273164	**Northing:** 686734.0 **Easting:** 649227.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.06	**Well Screen Intervals (ft bgs):** 67-77
Start Date: 9/29/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 77-79
Logged By: Joshua Millard	**Drilling Method:** Drive and Wash	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							0': See Boring Log SB-3B for soil descriptions from ground surface to 48 ft bgs.			Flush Mount Cover
2										Bentonite Grout
4										
6										
8										
10										
12										
14										
16										
18										
20										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) See boring log SB-3B for soil descriptions from ground surface to 48 ft bgs. 3.) Temporary 4-inch diam. steel casing was driven to 54 ft bgs, drill cuttings removed with roller bit and water, casing flushed with clean water, and open bore hole advanced to 80 ft bgs using roller bit and Revert. 4.) Boring advanced from 76-80 ft bgs for the well installation. 5.) Boring was converted into monitoring well MW-3C. 6.) Monitoring wells MW-3A and MW-3B were installed in adjacent borings. 7.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

Definitions:
1.) NA - Not Applicable
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-3C/MW-3C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 80.0
Project #: 60273164	**Northing:** 686734.0 **Easting:** 649227.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.06	**Well Screen Intervals (ft bgs):** 67-77
Start Date: 9/29/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 77-79
Logged By: Joshua Millard	**Drilling Method:** Drive and Wash	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22										
24										
26										
28										
30										
32										Bentonite Grout
34										
36										
38										
40										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) See boring log SB-3B for soil descriptions from ground surface to 48 ft bgs. 3.) Temporary 4-inch diam. steel casing was driven to 54 ft bgs, drill cuttings removed with roller bit and water, casing flushed with clean water, and open bore hole advanced to 80 ft bgs using roller bit and Revert. 4.) Boring advanced from 76-80 ft bgs for the well installation. 5.) Boring was converted into monitoring well MW-3C. 6.) Monitoring wells MW-3A and MW-3B were installed in adjacent borings. 7.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

Definitions:
1.) NA - Not Applicable
2.) ft - feet
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4.) SAA - Same As Above
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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-3C/MW-3C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 80.0
Project #: 60273164	**Northing:** 686734.0 **Easting:** 649227.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.06	**Well Screen Intervals (ft bgs):** 67-77
Start Date: 9/29/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 77-79
Logged By: Joshua Millard	**Drilling Method:** Drive and Wash	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										Bentonite Grout
42										
44										
46										
48										
50	1.6/2.0	3 5 5 5	0				MEADOW MAT			
52	1.5/2.0	4 4 6 7	0				50'-52': SAA: 1/4" thick brown silt beds starting at 51'.			
54	1.4/2.0	5 5 6 5	0				52'-53': SAA 53'-54': SILTY CLAY (CH): clay interbedded with silt and sand beds, clay is wet, grey, and plastic, silty clay beds are 1/4" thick and brown, and sand is fine and in micro-beds < 1 mm thick except at 53.5' where beds are 1/4" thick. Beds are stacked in r			
56	2/2.0	3 3 5 4	1.7				48'-50': SANDY CLAY (CH): clay interbedded with micro-beds of fine sand, wet, grey, stiff, plastic. Few sand beds with depth. 54'-56': SAA			
58	0.9/2.0	3 4 3 4	1.5				56'-58': SAA			
60	2/2.0	2 2 4 4	1.5		CH		58'-60': SAA: repetition of units is less well defined, very cohesive and plastic.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) See boring log SB-3B for soil descriptions from ground surface to 48 ft bgs. 3.) Temporary 4-inch diam. steel casing was driven to 54 ft bgs, drill cuttings removed with roller bit and water, casing flushed with clean water, and open bore hole advanced to 80 ft bgs using roller bit and Revert. 4.) Boring advanced from 76-80 ft bgs for the well installation. 5.) Boring was converted into monitoring well MW-3C. 6.) Monitoring wells MW-3A and MW-3B were installed in adjacent borings. 7.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-3C/MW-3C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 80.0
Project #: 60273164	**Northing:** 686734.0 **Easting:** 649227.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/29/2009	**Ground Elevation (ft NAVD 88):** 12.06	**Well Screen Intervals (ft bgs):** 67-77
Start Date: 9/29/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 77-79
Logged By: Joshua Millard	**Drilling Method:** Drive and Wash	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
60							MEADOW MAT			Bentonite Grout
	2/2.0	2	4.1				60'-62': INTERBEDDED SAND AND CLAY (CH): clay interbedded with fine sand beds < 1 mm thick, very plastic and stiff.			
		4								
		4								
62		6								
	0.9/2.0	8	2.1				62'-64': SAA: interbedded clay, silt, and sand in poorly stacked units.			
		4								
		8								
64		9								Bentonite
	1.4/2.0	3	28				48'-50': SANDY CLAY (CH): clay interbedded with micro-beds of fine sand, wet, grey, stiff, plastic. Few sand beds with depth. 64'-66': SAA			
		2								
		3								
66		2								
	1/2.0	4	29.1				66'-68': INTERBEDDED CLAY, SILT, and SAND (CL): interbedded grey clay, brown silt, and fine sand (20%), in distinct horizontal beds, 1/8-1/4" thick.			#2 Sand
		5								
		5								
68		6								
	0.95/2.0	10	111		SP		68'-68.25': GRAVELY SAND (SP): fine sand, 20% fine gravel, wet, tan brown.			
		15					68.25'-70': FINE SAND (SW): fine sand, 5% medium sand, wet, tannish grey, medium dense, dark brown to black staining and moderate naphthalene-like odor from 68.25 to 68.35'.			
		14								
70		14								
	1.2/2.0	11	35.2		SW		70'-72': SAA: trace naphthalene-like odor.			
		12								
		14								
72		16								
	1.4/2.0	9	33.4		SP		72'-74': FINE TO MEDIUM SAND (SP): fine to medium sand, 10% coarse sand, grading coarser with depth.			2" Diam. 0.020 PVC Well Screen
		11								
		15								
74		14								
	0.9/2.0	9	3.3		SW		74'-76': SAND (SW): interbedded fine sand and silt beds.			
		12								
		12			SP		75'-76: SAND (SP): coarse sand and silt, poorly sorted.			
76		15								
	NA	NA								1" Diam. PVC Sump
78										
80										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) See boring log SB-3B for soil descriptions from ground surface to 48 ft bgs. 3.) Temporary 4-inch diam. steel casing was driven to 54 ft bgs, drill cuttings removed with roller bit and water, casing flushed with clean water, and open bore hole advanced to 80 ft bgs using roller bit and Revert. 4.) Boring advanced from 76-80 ft bgs for the well installation. 5.) Boring was converted into monitoring well MW-3C. 6.) Monitoring wells MW-3A and MW-3B were installed in adjacent borings. 7.) See monitoring well logs MW-3A, MW-3B, and MW-3C for well construction details.

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Boring and Well Construction Log

BORING #: SB-04

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Vactron	**Water Level (ft):** NA
Finish Date: 9/24/2009	**Borehole Diameter:**	**Total Depth (ft):** 5.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
	NA	NA	0			FILL	0'-1.0': GRAVELLY SAND (Fill): coarse sand, 30% gravel and cobbles, dry, brown.	
2			423				1.0'-2.0': SAA: some solidified NAPL, dark brown/black, strong naphthalene-like odor.	SB-4(1-2)092409
			234				2.0'-3.0': SAND (Fill): fine to medium sand, 10% grey clay, dry, brown, some solidified NAPL, strong naphthalene-like odor.	
4			240				3.0'-4.0': SAA: blebs of very viscous NAPL.	
			220				4.0'-5.0': SAND (Fill): sand, 10% clay, brown, some blebs of very viscous NAPL.	

Remarks: Boring Terminated (ft): 5.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

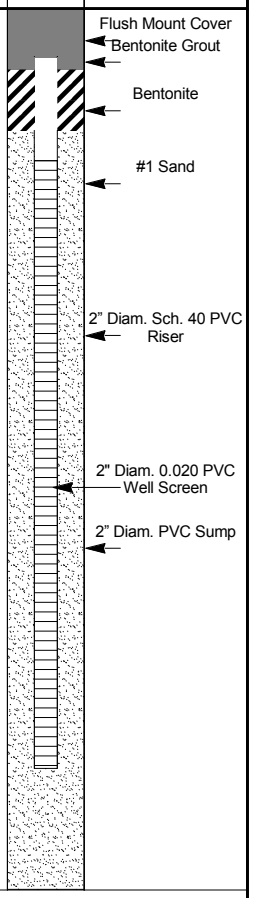
Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

Location ID: MW-04A

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	
Project #: 60273164	**Northing:** 686652.4 **Easting:** 649388.6	**Total Boring Depth (ft bgs):** 14.5
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/2/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Soil Sample Collection Method:** DP
Start Date: 11/2/2009 **Finish Date:** 11/2/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 2.5-12.5
Logged By: Ron Kantre	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-4C/MW-4C for Soil and Rock Descriptions			



Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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Definitions:
1.) NA - Not Applicable
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4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: MW-04B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	
Project #: 60273164	**Northing:** 686645.8 **Easting:** 649385.2	**Total Boring Depth (ft bgs):** 46.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/6/2009	**Ground Elevation (ft NAVD 88):** 13.23	**Soil Sample Collection Method:** DP
Start Date: 11/6/2009 **Finish Date:** 11/6/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 34-44
Logged By: Jennifer Pfeiffer	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-4C/MW-4C for Soil and Rock Descriptions			Flush Mount Cover
2										
4										
6										
8										
10										
12										
14										
16										Bentonite Grout
18										2" Diam. Sch. 40 PVC Riser
20										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: MW-04B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	
Project #: 60273164	**Northing:** 686645.8 **Easting:** 649385.2	**Total Boring Depth (ft bgs):** 46.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/6/2009	**Ground Elevation (ft NAVD 88):** 13.23	**Soil Sample Collection Method:** DP
Start Date: 11/6/2009 **Finish Date:** 11/6/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 34-44
Logged By: Jennifer Pfeiffer	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										Bentonite Grout
22										
24										
26										
28										
30										
32										Bentonite
34										#2 Sand
36										
38										
40										2" Diam. 0.020 PVC Well Screen

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: MW-04B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	
Project #: 60273164	**Northing:** 686645.8 **Easting:** 649385.2	**Total Boring Depth (ft bgs):** 46.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/6/2009	**Ground Elevation (ft NAVD 88):** 13.23	**Soil Sample Collection Method:** DP
Start Date: 11/6/2009 **Finish Date:** 11/6/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 34-44
Logged By: Jennifer Pfeiffer	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42										2" Diam. 0.020 PVC Well Screen
44										
46										2" Diam. PVC Sump

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-4C/MW-4C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 87.0
Project #: 60273164	**Northing:** 686648.6 **Easting:** 649387.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/24/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Well Screen Intervals (ft bgs):** 75-85
Start Date: 9/24/2009 **Finish Date:** 10/12/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 85-87
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							0: Soil descriptions from 0-8 ft bgs see logs for SB-4 and TP-2.			Flush Mount Cover
2										Bentonite Grout
4										
6										
8										
10	0.5/1.6	6 4 32 50/0.1	175				8.0'-10': GRAVELLY SAND (FILL): sand, 20% silt and fine gravel size slag, crushed brick, solidified NAPL at 8-8.2'. FILL			
12	0.4/0.4	128/0.4					10'-12': GRAVEL (Fill): gravel, 30% sand and silt, slightly green crushed concrete in tip of spoon, black stained, moderate fuel oil-like odor. 10.5'-15.5': FILL: concrete and/or rubble, to dense to sample.			
14	NA	NA								
16										
18	1/2.0	WOR	74.5				16'-18': SILT SAND (Fill): fine sand, 30% silt, trace wood fibers, wet, brown, soft, light fuel oil-like odor.			
20	1/2.0	WOH	104.5				18'-20': SANDY GRAVEL (Fill): sub-rounded gravel, 30% sand, wet, brown, mucky, black stained, moderate fuel oil-like odor.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring advanced in the footprint of TP-2. 3.) No samples collected 10.5-16 ft bgs due to presence of concrete/rubble. 4.) Boring advanced from 80-87 ft bgs for well installation. 5.) Boring was converted into monitoring well MW-4C. 6.) Monitoring wells MW-4A and MW-4B were installed in adjacent borings.

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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-4C/MW-4C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 87.0
Project #: 60273164	**Northing:** 686648.6 **Easting:** 649387.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/24/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Well Screen Intervals (ft bgs):** 75-85
Start Date: 9/24/2009 **Finish Date:** 10/12/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 85-87
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22	0/2.0	WOH	NA				MEADOW MAT			
24	1.4/2.0	WOH	3.4		OL		20'-24': ORGANIC CLAY (OL): clay, 30% silt, 10% light tan fibers/2'roots, 5% fine sand, moist, grey, soft, mucky, light hydrogen sulfide-like odor.			
26	0.6/2.0	1 1 1 1	3.9		PT		24'-24.3': SAA 24.3'-24.6': FRIABLE PEAT (PT): friable peat, damp, dark reddish brown. 26'-27.2': FRIABLE PEAT (PT): friable peat, grades into silt, 15% organics, grey, stiff.			
28	1.7/2.0	6 9 15 12	6.1 5.5		SW		INTERMEDIATE SAND			
30	1/2.0	6 7 6 7	9.1		SW		28'-28.5': SAA: 5% fine sand and silt, 5% coarse sand. 28.5'-30': SAND (SW): fine sand, 5% silt, micro-bedding. 27.2'-28': SAND (SW): medium sand, 5% fine sand, wet, grey, medium dense, moderate hydrogen sulfide-like odor.			
32	1/2.0	2 3 3 3	3.9		SP		30'-32': SAND (SP): SAND (SP): medium to fine sand, wet, grey, interbedded with silt from 30.5 to 31'. 32'-34': SAND (SP): interbedded fine and vey fine sand beds, trace silt beds, wet, grey, medium dense.			
34	1.4/2.0	3 10 12 15	8.8							
36	1.2/2.0	8 15 19 19	13.6		SW		34'-36': SAND (SW): finely interbedded sand and very fine sand beds, wet, grey, medium dense. 36'-38': SAND (SW): fine sand, 10% medium sand, wet, grey, medium dense, trace naphthalene-like odor.			Bentonite Grout
38	1.1/2.0	8 16 16 12	125							
40	0.7/2.0	3 3 6 7	55.6				38'-40': SAND (SP): fine sand, 20% medium and coarse sand, wet, grey, medium sand from 38.25-38.5' is black due to mineral composition.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring advanced in the footprint of TP-2. 3.) No samples collected 10.5-16 ft bgs due to presence of concrete/rubble. 4.) Boring advanced from 80-87 ft bgs for well installation. 5.) Boring was converted into monitoring well MW-4C. 6.) Monitoring wells MW-4A and MW-4B were installed in adjacent borings.

Definitions:
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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-4C/MW-4C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 87.0
Project #: 60273164	**Northing:** 686648.6 **Easting:** 649387.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/24/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Well Screen Intervals (ft bgs):** 75-85
Start Date: 9/24/2009 **Finish Date:** 10/12/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 85-87
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										Bentonite Grout
42	1/2.0	2 6 6 7	93.4		SP		40'-42': SAND (SP): fine sand, 20% medium sand, interbedded with very fine sand, wet, grey, soft.			
44	1.1/2.0	6 10 15 17	92.4				38'-40': SAND (SP): fine sand, 20% medium and coarse sand, wet, grey, medium sand from 38.25-38.5' is black due to mineral composition. 42'-44': SAND (SP): fine sand, 5% medium sand, interbedded with very thin (2-3mm) silt beds, light naphthalene-like odor.			
46	1.2/2.0	5 10 10 10	3.6							
48	0.8/2.0	3 7 11 13	2				46'-48': SAA: less sand, few beds are fine to medium sand.			
50	1.2/2.0	3 6 8 9	4.6		ML		48'-50': SANDY SILT (ML): interbedded silt and fine sand beds. 44'-46': SANDY SILT (ML): interbedded silt and sand in 1/2'4 - 1/2'8" beds, wet, grey, medium soft.			
52	1.2/2.0	5 8 8 12	1.5				50'-52': SAA: less sand.			
54	1.4/2.0	9 12 12 14	1.5				INTERMEDIATE CLAY 52'-54': CLAYEY SANDY SILT AND CLAY (ML): interbedded silt and 10% clay, 5% sand, medium stiff.			
56	1.6/2.0	12 13 13 13	3.3							
58	1.2/2.0	11 12 12 10	3.5				56'-58': SAA: very stiff at 57.5'. 54'-56': SILTY CLAY (CH): interbedded clay and silt and very thin sand beds, few sand beds are 0.5" thick, clay is medium stiff and plastic.			
60	0.85/2.0	6 7 7 7	1.5				58'-60: INTERBEDDED CLAY (CH): multiple stacked books (repeating beds) of reddish brown silt clay (0.03' thick) over grey clay (~0.005' thick) over very thin fine sand beds, damp, highly plastic, one fine to medium sand bed 0.05' thick at 58.25'.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring advanced in the footprint of TP-2. 3.) No samples collected 10.5-16 ft bgs due to presence of concrete/rubble. 4.) Boring advanced from 80-87 ft bgs for well installation. 5.) Boring was converted into monitoring well MW-4C. 6.) Monitoring wells MW-4A and MW-4B were installed in adjacent borings.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-4C/MW-4C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 87.0
Project #: 60273164	**Northing:** 686648.6 **Easting:** 649387.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/24/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Well Screen Intervals (ft bgs):** 75-85
Start Date: 9/24/2009 **Finish Date:** 10/12/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 85-87
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
60										Bentonite Grout
	0.95/2.0	7 14 14 13	3.9				60'-62': SAA			
62										
	1.5/2.0	5 7 8 8	2.4							
64										
	1.8/2.0	5 6 7 8	4		CH					
66										
	1.5/2.0	9 12 12 14	2.1							
68										
	1.1/2.0	8 8 12 15	1.2				54'-56': SILTY CLAY (CH): interbedded clay and silt and very thin sand beds, few sand beds are 0.5" thick, clay is medium stiff and plastic. 68'-70': SAA: very cohesive and plastic.			
70										
	1/2.0	4 4 6 15	2.9							
72										Bentonite
	1.2/2.0	12 15 15 12	4.1				72'-74': SAA: 2" silt bed at 72.5', dry, brown, low plasticity.			
74										
	2/2.0	6 9 9 21	11.7 15.5		SW		74'-75': SAA 75'-75.5': CLAYEY SILT (ML): silt, few thin (1/2'8") clay beds, brown, soft, non-cohesive. LOWER SAND 75.5'-76': SAND (SW): finely bedded fine and very fine sand, few clay and silt beds, wet, moderate brown.			#2 Sand
76										
	1.9/2.0	16 15 10 11	32							
78										
	0.5/2	1 1 4 6	23.5				76'-78': GRAVELLY SAND (SP): medium sand, 20% fine gravel, 5% coarse sand, 5% fine sand, wet, tannish brown, medium dense. 78'-80': SAA: light naphthalene-like odor.			
80										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring advanced in the footprint of TP-2. 3.) No samples collected 10.5-16 ft bgs due to presence of concrete/rubble. 4.) Boring advanced from 80-87 ft bgs for well installation. 5.) Boring was converted into monitoring well MW-4C. 6.) Monitoring wells MW-4A and MW-4B were installed in adjacent borings.

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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-4C/MW-4C

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 87.0
Project #: 60273164	**Northing:** 686648.6 **Easting:** 649387.4	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/24/2009	**Ground Elevation (ft NAVD 88):** 12.94	**Well Screen Intervals (ft bgs):** 75-85
Start Date: 9/24/2009 **Finish Date:** 10/12/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 85-87
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
80										
	NA				SP		80'-87': See note 4.) below.			2" Diam. 0.020 PVC Well Screen
82										
		NA					76'-78': GRAVELLY SAND (SP): medium sand, 20% fine gravel, 5% coarse sand, 5% fine sand, wet, tannish brown, medium dense.			
84										
										1" Diam. PVC Sump
86										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring advanced in the footprint of TP-2. 3.) No samples collected 10.5-16 ft bgs due to presence of concrete/rubble. 4.) Boring advanced from 80-87 ft bgs for well installation. 5.) Boring was converted into monitoring well MW-4C. 6.) Monitoring wells MW-4A and MW-4B were installed in adjacent borings.

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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: MW-05A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	
Project #: 60273164	**Northing:** 686580.8 **Easting:** 649164.8	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/4/2009	**Ground Elevation (ft NAVD 88):** 14.71	**Soil Sample Collection Method:** DP
Start Date: 11/4/2009 **Finish Date:** 11/4/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Ron Kantre	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-5B/MW-5B for Soil and Rock Descriptions			Flush Mount Cover
										Bentonite Grout
2										Bentonite
4										#1 Sand
6										2" Diam. Sch. 40 PVC Riser
8										
10										2" Diam. 0.020 PVC Well Screen
12										
14										
16										1" Diam. PVC Sump

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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Definitions:
1.) NA - Not Applicable
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3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-5B/MW-5B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 58.0
Project #: 60273164	**Northing:** 686576.4 **Easting:** 649166.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/22/2009	**Ground Elevation (ft NAVD 88):** 14.69	**Well Screen Intervals (ft bgs):** 25.5-35.5
Start Date: 9/22/2009 **Finish Date:** 9/29/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 35.5-37.5
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger (B-48 ATV Rig)	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0										
			4.1				FILL 0.2'-2.0': (Fill): timber, brick and plastic, moist.	0-2		Flush Mount Cover
2			10.1							6" Diam. Sch. 40 PVC Riser
	NA	NA	19.9				2.0'-3.0': (Fill):wood chips, moist, black.			
4			9.8				3.0'-4.0': (Fill): wood chips, stone, bricks and plastic, moist, black.			
			1.54				4.0'-5.0: SAA			
6	1.0/2.01	5 19	4				5.0'-6.0':GRAVELLY SAND (Fill): 20% slag, 5% brick, damp, dark brown, black staining.			
	1.4/2.0	6 8 8 11	1.5				6.0'-8': SAA, 5% crushed concrete, wet at 7.5'.			
8										
	1.8/2.0	5 11 7 3	1				8-8.5': SAA 8.5'-10': SILTY SAND (Fill): 20% gravel, 5% brick fragments, wet, dense, brown.			
10										
	1.2/2.0	3 7 3 1	2.9 24.2		FILL		0-0.2': GRAVEL (Fill): gravel, medium to fine sand, dry. 10'-11': SANDY GRAVEL (Fill): 15% brick, slag and concrete, wet, dense, brown. 11'-12': SANDY SILT (Fill): 5% wood fibers, wet, black, naphthalene-like odor.			
12										
	2.0/2.0	23 14 15 15	81.5				12'-14': SAND (Fill): fine to coarse sand, poorly sorted, slag and coke, wet, very dense, black stained.			
14										
	1.0/2.0	6 3 2 2	202				14'-16': SAND (Fill): strong naphthalene-like odor, 35% to 5% NAPL blebs.			
16										
	1.5/2.0	2 1 1 2	804				16'-17.5': SAA: NAPL blebs from 17.3'-17.5' bgs. 17.5'-18': SILTY SAND (Fill): soft, strong naphthalene-like odor.	16-18		
18										
	0.4/2.0	1 1 2 2	386				18'-20': (Fill): slag, wet, some NAPL.			
20										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring was converted into monitoring well MW-5B. 3.) Monitoring well MW-5A was installed in an adjacent boring. 4.) See monitoring well logs MW-5A and MW-5B for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-5B/MW-5B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 58.0
Project #: 60273164	**Northing:** 686576.4 **Easting:** 649166.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/22/2009	**Ground Elevation (ft NAVD 88):** 14.69	**Well Screen Intervals (ft bgs):** 25.5-35.5
Start Date: 9/22/2009 **Finish Date:** 9/29/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 35.5-37.5
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger (B-48 ATV Rig)	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22	1.5/2.0	1 1 1 2	111				MEADOW MAT			6" Diam. Sch. 40 PVC Riser Bentonite Grout Bentonite Grout
24	1.0/2.0	2 1 1 1	47.3		OH		20'-22': ORGANIC CLAY (OH): horizontal wood fibers, strong sulfur-like odor. 22'-24': SAA			Bentonite
26	2.0/2.0	2 3 3 3	79 323 30		PT		24'-25: SAA 25'-26': PEAT (PT): fibrous, friable, dry.			#1 Sand
28	1.0/2.0	6 11 11 12	592		SP		26'-28': SAND (SP): fine to medium sand, 5% roots, 5% coarse sand, 5% silt, wet, strong naphthalene odor, lenses of NAPL at 26.2', 26.8', and 27'.			
30	1.0/2.0	WOH 2 4 7	1671				INTERMEDIATE SAND	28-30		
32	1.8/2.0	4 4 8 7	176		SW		30'-32': SAA: moderate sheen throughout, spots of heavy sheen. 28'-30' SAND (SW): well sorted, wet, loose, gray, 0.5" thick band of NAPL at 28.5'.			2" Diam. 0.020 PVC Well Screen
34	1.4/2.0	9 9 9 9	78.4				32'-34': SAA: moderate sheen throughout, spots of heavy sheen.			
36	1.0/2.0	1 4 4 4	152 48				34'-35': SAA, NAPL at 35'.			
38	1.2/2.0	6 7 6 7	58.5				36'-38": SAA: no odor.			1" Diam. PVC Sump
40	0.4/2.0	3 3 4 7	56.5				35'-36': INTERBEDDED CLAY and Sand (CL): interbedded clay and sand, slight naphthalene like odor. 38'-40': SAA			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring was converted into monitoring well MW-5B. 3.) Monitoring well MW-5A was installed in an adjacent boring. 4.) See monitoring well logs MW-5A and MW-5B for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-5B/MW-5B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 58.0
Project #: 60273164	**Northing:** 686576.4 **Easting:** 649166.2	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/22/2009	**Ground Elevation (ft NAVD 88):** 14.69	**Well Screen Intervals (ft bgs):** 25.5-35.5
Start Date: 9/22/2009 **Finish Date:** 9/29/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 35.5-37.5
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger (B-48 ATV Rig)	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	1.5/2.0	3, 4, 7, 9	46.7		CL		40'-42': SAA: interbedded clay and sand, little fine rounded gravel and coarse sand, slight naphthalene-like odor.			
44	1.2/2.0	3, 4, 9, 11	54, 3780				42'-44': SAA 43'-43.5': sand lenses are saturated with low viscosity NAPL.			
46	1.0/2.0	2, 3, 5, 7	4480				35'-36': INTERBEDDED CLAY and Sand (CL): interbedded clay and sand, slight naphthalene like odor. 44'-47': SAA: sand lenses saturated with NAPL.			
48	1.4/2.0	4, 5, 5, 6	9540, 81.5				47'-48': SAA: no NAPL or odors.			
50	1.8/2.0	4, 4, 6, 6	47		58		INTERMEDIATE CLAY 48'-50': SAA: clay interbedded with fine sand and silt, stiff.			
52	1.0/2.0	3, 3, 4, 5	4.2				50'-52': SAA			
54	1.5/2.0	3, 3, 3, 3	7.2				52'-54': SAA	52-54		
56	0.4/2	3, 3, 3, 4	2.1				54'-56': SAA			
58	0.8/2.0	4, 5, 5, 4	4				56'-58": SAA			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vactron. 2.) Boring was converted into monitoring well MW-5B. 3.) Monitoring well MW-5A was installed in an adjacent boring. 4.) See monitoring well logs MW-5A and MW-5B for well construction details.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: MW-06A

Sheet 1 of 1

Client: National Grid	**Boring Location:** NE corner of Vandervoort and Maspeth	
Project #: 60273164	**Northing:** 686630.1 **Easting:** 648870.2	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 3
Site Loc: 10/22/2009	**Ground Elevation (ft NAVD 88):** 13.19	**Soil Sample Collection Method:** DP
Start Date: 10/22/2009 **Finish Date:** 10/22/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Jennifer Pfeiffer	**Drilling Method:** Geoprobe	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-6B/MW-6B for Soil and Rock Descriptions			Flush Mount Cover Bentonite Grout 2" Diam. Sch. 40 PVC Riser Bentonite #2 Sand 2" Diam. 0.020 PVC Well Screen 1" Diam. 0.010 PVC Re-Pack Well Screen
2										
4										
6										
8										
10										
12										
14										
16										

Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-6B/MW-6B

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 55.0
Project #: 60273164	**Northing:** 686624.9 **Easting:** 648871.8	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/14/2009	**Ground Elevation (ft NAVD 88):** 13.22	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/14/2009 **Finish Date:** 11/30/2009	**Drilling Company:** PEC, Finley & Nicol	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Jennifer Pfeiffer and Joshua Millard	**Drilling Method:** Geoprobe	**Water Level (ft):** 2

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							FILL			Flush Mount Cover
			0.3				0.4'-1.0': SAND AND SILT (Fill): sand, 10% silt, dry, brown, loose, piece of brick, large block of granite.			
2			0.5				1.0'-2.0': SAA: crushed concrete.			Bentonite Grout
			0.3				2.0'-3.0': SAA: moist.			
4	NA	NA	0.5				3.0'-4.0': SAND (Fill): medium to fine sand, 5% clay and silt, moist, light brown, crushed brick.			
			0.4				4.0'-5.0': SAA:			
6			14.6				5'-6': SAA: few pieces of concrete and brick.			
			2.2				6.0-10': GRAVELLY SAND (Fill): medium sand, 30% gravel, wet at 7' bgs, brown and black, wood pieces < 1" long.	6		
8	2.5/4	NA								
			17.8		FILL					
10							0-0.4': CONCRETE PAD (sidewalk).			
							10'-13': GRAVELLY SILT (FILL): silt, 5% gravel, moist, black, wood fragments, clinker asphalt like-odor from 12.5-13' bgs, fibrous material from 12.25-12.5 ft bgs.			
12	2.58/3	NA	2.6							
							13'-16': GRAVEL (Fill): angular gravel, wet, black, loose, ash, light petroleum-like odor, some brick and concrete pieces.			Bentonite Grout
14										
	1.08/3	NA	0							
16										
							16'-18': CLAYEY SILT (Fill): silt, 20% clay, wet, black, loose, clinker, ash, and wood fragments, moderate petroleum-like odor, moderate sheen.	16-18		
			2.6							
18	2.58/4	NA								
			3		SC		18'-19': CLAYEY SAND (SC): sand, 30% clay, moist, brown, soft.			
20							MEADOW MAT			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) PEC = Paragon Environmental Construction 3.) Boring terminated at 55 ft bgs due to drilling refusal. 4.) Boring was converted into monitoring well MW-6B. 5.) Monitoring well MW-6A was installed in an adjacent boring.

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Definitions:
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3.) bgs - below ground surface 11.) NR - No Recovery
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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-6B/MW-6B

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 55.0
Project #: 60273164	**Northing:** 686624.9 **Easting:** 648871.8	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/14/2009	**Ground Elevation (ft NAVD 88):** 13.22	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/14/2009 **Finish Date:** 11/30/2009	**Drilling Company:** PEC, Finley & Nicol	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Jennifer Pfeiffer and Joshua Millard	**Drilling Method:** Geoprobe	**Water Level (ft):** 2

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										Bentonite Grout
22	2.67/4	NA	8.8		PT		MEADOW MAT 19'-20': FIBROUS PEAT (PT): fibrous peat, reddish brown, soft. 20'-24': PEAT (PT): fibrous peat, 15% clay, brown, stiff, friable.			
24							19'-20': FIBROUS PEAT (PT): fibrous peat, reddish brown, soft.			
26	2.67/4	NA	4.8		OH		24'-25': FRIABLE PEAT (PT): friable peat, black to dark brown. 25'-26': CLAY (OH): clay, moist, grey, plastic.			
28			113		SW		INTERMEDIATE SAND 26'-28': SAND (SW): medium sand, moist, grey, well sorted.	26-28		Bentonite
30	4/4	NA	2		OH		28'-29.17': CLAY (OH): clay, moist, grey, plastic, very soft, 10% plant fibers.			#1 Sand
32			1.8		PT OH SC		29.17'-29.25': FRIABLE PEAT (PT): peat, red, friable. 29.25'-29.83': CLAY (OH): clay, moist, grey, very soft, 10% plant fibers. 29.83-31.83':': CLAYEY SAND (SC): sand, 30% clay, wet/2'moist, grey.	30-32		
34	4/4	NA	3		SP		32'-36': GRAVELLY SAND (SP): fine to medium sand, 20% fine gravel, wet, brown, lens of grey gravel at 33.5' bgs, stiff grey clay with low plasticity from 33.67-34' bgs,			
36			5				31.83'-32': SAND (SP): fine to medium sand, wet, brown, dense, poorly sorted.			2" Diam. 0.020 PVC Well Screen
38	4/4	NA			CL		36'-40': SANDY CLAY (CL): interbedded sandy silt, silty clay, and sandy clay lenses, moist, grey, soft, 1" band of red sandstone at 36.42' bgs.			
40										

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) PEC = Paragon Environmental Construction 3.) Boring terminated at 55 ft bgs due to drilling refusal. 4.) Boring was converted into monitoring well MW-6B. 5.) Monitoring well MW-6A was installed in an adjacent boring.

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(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-6B/MW-6B

Client: National Grid	**Boring Location:** Along Vandervoort Avenue	**Total Boring Depth (ft bgs):** 55.0
Project #: 60273164	**Northing:** 686624.9 **Easting:** 648871.8	**Boring Diameter (in):** 3
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 10/14/2009	**Ground Elevation (ft NAVD 88):** 13.22	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 10/14/2009 **Finish Date:** 11/30/2009	**Drilling Company:** PEC, Finley & Nicol	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Jennifer Pfeiffer and Joshua Millard	**Drilling Method:** Geoprobe	**Water Level (ft):** 2

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	2.83/4	NA	2.2							1" Diam. PVC Sump
44										
46	4/4	NA	0.6							
48					SP		40'-44': GRAVELLY SAND (SP): sand, 40% fine gravel, poorly sorted, dense, similar to till. 44'-48': SAA 48'-50': GRAVELLY SAND (SP): fine sand, 20% gravel, sub-rounded to sub-angular coarse sand and fine gravel to medium gravel, damp, grayish brown, poorly sorted, very dense.			
50	1/2.0	NA	0.9							
52	2.5/5.0	NA	0				50'-55': SAA			
54			0							

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) PEC = Paragon Environmental Construction 3.) Boring terminated at 55 ft bgs due to drilling refusal. 4.) Boring was converted into monitoring well MW-6B. 5.) Monitoring well MW-6A was installed in an adjacent boring.

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10.) WHO - Weight of Hammer
11.) NR - No Recovery

AECOM Boring and Well Construction Log

BORING #: SB-07A
Sheet 1 of 1

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Jennifer Pfeiffer and Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** PEC, Finley & Nicol
Start Date: 9/23/2014	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 10/5/2014	**Borehole Diameter:**	**Total Depth (ft):** 8.2

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
	NA	NA	0.8			FILL	0'-1.0': SAND (Fill): some stone and cobbles, dry, brown.	SB-7A(0-0.17)102009
2			2.8				1.0'-2': SAND (Fill): medium to fine sand, some stone and brick, moist, slight naphthalene like odor.	
			5.6				2.0'-3.0': SAA, railroad tie at 2'10".	
4			0.6				3.0'-4.0': SAND (Fill):medium to coarse sand, some gravel, trace urban refuse including carpet, garden hose, plastic, wire and wood chips, black moist.	
			4.5				4.0'-5.0: SAND (Fill): medium to coarse sand and silt, trace rubber and wood fragments, moist, black, slight hydrocarbon like odor, 1 spot of sheen on the piece of rubber.	
6	0.2/1	5 28	1.9				5.0'-6.0': SAND (Fill): sand, dry, black, wood fibers.	
	0.4/2	18 10 10 11	10.3				6.0'-6.6': SAND AND SILT (Fill): sand, 30% silt, damp, black, wood fibers, piece of wood 0.083 to 0.17' thick, concrete and brick in tip.	SB-7A(6-8)100509
8								
	0.15/0.17	50/0	NA				8'-8.17': Fill: concrete dust on tip of spoon. Refusal.	

Remarks: Boring Terminated (ft): 8.2

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-07B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Jennifer DeBoer
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/22/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2		NA					0: Soil descriptions from 0-5 ft bgs see log for SB-7A.	
4								
6	0.8/1.0	8 8	0.7				5.0'-6.0': SAND (Fill): fine sand, trace silt, brick fragments and gravel, dark to light brown.	
8	0.8/2.0	29 50/.2 NA NA	2.8			FILL	6.0'-6.6': SAA, wet. 6.6'-6.8': Concrete, refusal at 6.8', advanced augers to 8.0'.	
10	0.7/2	6 4 2 2	1.8				8.0'-10': COAL FRAGMENTS (Fill): little fine to coarse sand and fine to medium gravel wet, dark gray.	
12	0.7/2.0	2 3 2 3	6.1 26.8				10'-12': SAA (Fill): strong fuel oil-like odor, possible naphthalene odor.	
14	0.9/2.0	4 4 4 4	36 55.7				12'-14': SAND (Fill): fine to coarse sand, wet, dark brown and black, strong fuel oil like odor.	
16	0.7/2.0	2 3 3 2	41				14'-15': SAND (Fill): SAA 15'-16': PEAT (PT): trace silt and clay, wet, yellowish brown, sulfur like odor.	
18	1.8/2.0	2 2 2 2	57 7.2			PT CH	16'-17': SAA 17'-18': CLAY (CH): trace beds of peat, wet, dark gray, high plasticity, sulfur like odor.	
20	1.4/2.0	1 1 1 1	2.9 9.1				18'-20': SAA: trace shells and plant material.	

Remarks: Boring Terminated (ft): 46.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-07B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Jennifer DeBoer
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/22/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
	1.8/2.0	1	9.5				20'-20.2': SAA 20.2'-22': CLAYEY SILT (ML): trace shell fragments, wet, dark gray, low to medium plasticity, moderately soft, slight sulfur like odor.	
		1						
		1	7.6					
22		1						
	1.9/2.0	WOH	4.5			ML	22'-24': SAA	
		WOH						
		WOH	8.9					
24		WOH						
	1.9/2.0	4	0				24'-25': SAA	
		4						
		7	14.4			PT	25'-25.3': PEAT (PT): little plant fragments, wet, reddish brown, strong sulfur like odor.	
26		7	28.3				25.3'-26': SAND (SP): poorly graded fine sand, wet, loose, gray, slight sulfur like odor.	
	1.7/2.0	7	17.2				26'-28': SAND (SP): SAA, moderate naphthalene odor from 27'-28'.	
		7						
		8	34.2			SP		
28		9						
	1.0/2.0	8	8.2				28'-30': SAA: moderate naphthalene odor.	
		8						
		9						
30		9						
	1.4/2.0	4	16.7				30'-32': SAND (SM): fine to medium sand interbedded with fine sand and silt lenses, wet, grayish brown, slight naphthalene like odor.	
		4						
		5						
32		7				SM		
	1.7/2.0	12	15.5				32'-34': SAA	
		16						
		16						
34		13						
	2.0/2.0	WOH	19				34'-36': SAND (SW): fine to medium sand, wet, grayish brown, slight naphthalene like odor.	
		WOH						
		3						
36		6						
	1.4/2.0	12	28				36'-37.5': SAA	
		17						
		20				SW		
38		15					37.5'-38': SAND (SW): fine sand, little silt, wet, moderately dense, grayish brown, slight naphthalene odor.	
	0.7/2.0	6	70					
		8						
		11						SB-7B(38-40)102709
40		16						

Remarks: Boring Terminated (ft): 46.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-07B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Jennifer DeBoer
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/22/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
	1.3/2.0	7	55			SW	40'-42': SAA: fine sand, little silt, wet, moderately dense, grayish brown, slight naphthalene like odor.	
		8						
		10						
42		12						
	1.2/2.0	8	46				42'-44': SAA: slight naphthalene like odor.	
		9	17					
		9	8					
44		8						
		9	4.2				44'-46': SAA: very slight naphthalene like odor, no odor from 45'-46'.	
		11						
		11	0.7					SB-7B(44-46)102709
46		12						

Remarks: Boring Terminated (ft): 46.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-08

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger (Mobile B59)	**Water Level (ft):** 8
Finish Date: 10/18/2009	**Borehole Diameter:**	**Total Depth (ft):** 26.1

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
			0			Concrete	0-0.92': CONCRETE PAD.	
			0				0.92'-1': GRAVEL (Fill): gravel and coarse sand, trace plastic, wood, stone, metal, moist, black. 1.0'-2.0': SAA	
2								
	NA	NA	0				2.0'-3.0': SAA	SB-8(2-3)092709
4			0				3.0'-4.0': SAA	
			0				4.0'-5.0: SAND (Fill): medium to fine sand and gravel, some urban fill, wet, black.	
6	1.0/1.0	13	28.8				5.0'-6.0': SANDY GRAVEL (Fill): some sand, brick fragments and concrete fragments, moist.	
		7						
		7	49.3				6.0'-8.0': SAND (Fill): fine sand, 5% coarse sand, little silt, damp, black staining, moderate naphthalene-like odor.	
8	0.4/2.0	5						
		3						
		1						
		5	122				8.0'-10': SILTY GRAVEL (Fill): some coarse sand, wet, some black staining, slag and ash from 9.7'-10.0'.	
10	1.0/2.0	4						
		3						
		3						
		3	90.1			FILL	10'-12': SLAG(Fill): little sand, wet, black staining, sheen and naphthalene like odor, trace NAPL.	
12	0.5/2.0	3						
		3						
		3	166				12'-14': SAND (Fill): some slag, wet, light sheen and moderate naphthalene-like odor.	
14	1.1/2.0	3						
		7						
		5	97.4				14'-16': SLAG (Fill): some sand, gravel and silt, trace brick fragments, wet, moderate hydrocarbon like sheen and naphthalene like odor.	
16	1.2/2.0	7						
		8						
		4						
		1	85				16'-18': SAA	
18	0.7/2.0	2						
		1						
		2						
		3	288				18'-20': SAND (Fill): fine to medium sand, wet, black, slight naphthalene-like odor.	
20	1.8/2.0	4						
		4						

Remarks: Boring Terminated (ft): 26.1

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-08

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger (Mobile B59)	**Water Level (ft):** 8
Finish Date: 10/18/2009	**Borehole Diameter:**	**Total Depth (ft):** 26.1

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	1.8/2.0	7	240			FILL	20'-22': SAND (Fill): some slag, wet, trace sheen and naphthalene-like odor.	
		2						
		5						
22	1.4/2.0	8						
		5	249				22'-24': SAA, moderate naphthalene-like odor.	
		4						
		3						
24	1.7/2.0	3						
		2	1890				24'-26.1': SLAG (Fill): slag and gravel, wet, saturated with viscous, tacky, black NAPL.	
		1						
	0.7/2.0	1						SB-8(24-26)101809
26		1						
	1/0.1	50/0.1						

Remarks: Boring Terminated (ft): 26.1

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AECOM Boring and Well Construction Log

BORING #: SB-09

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/24/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
			137			Concrete	0.0'-1.0': CONCRETE PAD.	
			161				1.0'-2': SILTY SAND (Fill): little wood chips and wood fibers, moist, dark brown, sulfur-like odor.	
2								
	NA	NA	50				2.0'-3.0': SAA (Fill)	
			61.5				3.0'-4.0': SAA (Fill)	
4								
			271				4.0'-5.0: SAA (Fill)	SB-9(4-5)092709
	0.8/1.0	33	11				5.0'-6.0': SILTY SAND (Fill):some gravel, little wood chips and brick fragments, dry, brown.	
6		23						
	1.0/2.0	15	10.6				6.0'-7.2': BRICK (Fill): Crushed brick, little sand and gravel, wet.	
		12						
		7						
8		5				FILL	7.2'-8': GRAVELY SAND (Fill): wet, loose, black stained, naphthalene-like odor.	
	1.7/2.0	7	8.9				8'-9.3': GRAVELY SAND (Fill): little silt, trace brick, slag, wood and concrete, wet, stained black, naphthalene-like odor.	
		5						
		50/.3						
10		46	23				9.3'-10': GRAVELY SAND (Fill): wet, dense, strong naphthalene-like odor, heavy sheen, some NAPL like blebs from 9.8'-10'.	
	1.0/2.0	8	202				10'-12': SANDY GRAVEL (Fill): little slag, wet, loose, heavy sheen and strong naphthalene-like odor, trace NAPL blebs.	
		5						
		3						
12		2						
	0.4/2.0	6	315				12'-14': SAA (Fill): trace NAPL like blebs, little spots of sheen.	
		3						
		1						
14		1						
	1.4/2.0	1	3589			SP	14'-14.7': SAND (SP): sand, grading coarser, wet, strong naphthalene-like odor, heavy sheen, some NAPL blebs.	
		1						
		WOR					14.7'-16': PEAT (PT): wet, reddish brown, some non-viscous NAPL.	
16		WOR						
	0.0/2.0	WOR	NA				16'-18': No recovery.	
		WOR						
		WOR				PT		
18		WOR						
	1.8/2.0	WOR	488				18'-20': PEAT (PT): some clay, wet, soft, strong sulfur-like odor.	
		WOR						
		WOR						
20		WOR						

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-09

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/24/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
	2.0/2.0	WOH	780			PT	20'-21.5': PEAT (PT): some clay, wet, soft, strong sulfur-like odor.	SB-9(20-21.5)092709
		WOH						
		WOH						
22		WOH	162			CL	21.5'-22: SILTY CLAY (CL): some peat, soft, non-plastic, strong sulfur-like odor.	
	2.0/2.0	WOR	89			PT	22'-24': CLAYEY PEAT (PT): very soft, sulfur-like odor.	
		WOR						
		WOR						
24		WOR						
	1.7/2.0	3	270				24'-25': SAA, dry.	
		11						
		16	561				25'-25.3': SAND (SW): fine sand, well sorted, wet, strong naphthalene-like odor, heavy sheen and trace NAPL.	
26		17						
	2.0/2.0	13	550				26'-28': SAND (SW): fine to medium sand, trace bands of fine sand, wet, heavy sheen, NAPL saturated at 26.6'-26.8' and 27.4'-27.9'.	
		20						
		22						
28		34						
	1.8/2.0	9	228				28'-29': SAA: trace sheen.	
		13						
		18	254				29'-30' SAND (SW): finely banded sand, wet, sulfur-like odor.	
30		15						
	0.5/2.0	9	76.8			SW	30'-32': SAA	
		8						
		3						
32		2						
	1.5/2.0	6	186				32'-34': SAA	
		19						
		18						
34		23						
	0.8/2.0	WOH	521				34'-36': SAND (SW): fine sand, wet.	
		WOH						
		2					35'-35.8': NAPL saturated.	
36		6						
	1.4/2.0	9	846			SP	36'-38': SAND (SP): fine to medium sand, wet, reddish brown, saturated with NAPL like material at 36.8' and 37.2'-37.5'.	SB-9(36-38)092709
		12						
		14						
38		15						
	0.4/2.0	4	61.6				38'-40': SAND (SW): fine sand, wet, dense, reddish brown.	
		5						
		9						
40		10						

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-09

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/24/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	0.7/2.0	6 7 7 9	3.7				40'-42': CLAY (CH): brownish gray.	SB-9(40-42)092709
44	1.3/2.0	5 7 8 7	2.3				42'-44': SAA, interbedded with lenses of fine sand, wet, grayish brown.	
46	1.2/2.0	3 4 4 4				CH	44'-46': SAA	
48	1.3/2.0	4 5 7 6	0.7				46'-48': SAA	
50	1.2/2.0	7 7 7 5	0.6				48'-50': SAA	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-10

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686558.1 **Easting:** 649098.4	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0-0.75': CONCRETE PAD.	
			23.2				0.75'-1.0': GRAVELLY SAND (Fill): coarse sand, 30% medium to fine gravel, damp, brown and white.	
2			19.6				1.0'-2.0': SAA: wet, black, plastic and wood debris, hydrogen sulfide-like odor.	
	NA	NA	35.1				2.0'-3.0': SAND and SOLID WASTE (Fill): medium sand, wet, black, paper, plastic, and wood debris.	
4			45.8				3.0'-4.0': SAA	SB-10(3-4)092709
			23				4.0'-5.0: SAA	
6	0.9/1.0	26 32	23.2				5.0'-6.0': GRAVELLY SAND (Fill): sand, 30% gravel, dry, black.	
	1.56/2.0	38 32 12 12	12.3				6.0'-7.25': SAA	
8							7.25'-8.0': GRAVEL (Fill)	
	1/2.0	8 12 5 6	25.8				8.0'-10': GRAVELLY SAND (Fill): sand, 30% gravel, damp, black, wood debris.	
10						FILL		
	0.5/2.0	5 5 7 8	6.3				10'-12': SAA: trace naphthalene-like odor at 11.5'.	
12								
	0.8/2.0	8 8 4 3	71.8				12'-14': SANDY GRAVEL (Fill): fine, sub-rounded gravel (slag), 20% fine sand, damp, loose to moderate density, black stained, acrid odor.	
14								
	0.6/2.0	1 1 1 1	1180				14'-16': GRAVELLY SAND (Fill): fine sand, fine gravel (slag), wet, loose, black stained viscous NAPL at 14.5', strong naphthalene-like odor.	
16								
	0.5/2.0	1 1 1 2	2368				16'-18': SAND (fill): fine, angular sand (possibly ash), wet, reddish black, NAPL saturated.	SB-10(16-18)092509
18								
	1.7/2.0	2 2 2 2	2570 855				18'-19': SAA: NAPL saturated. 19'-20':FIBROUS PEAT (PT): fibrous peat, reddish brown, soft, strong hydrogen sulfide-like odor.	
20						PT		

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-10

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686558.1 **Easting:** 649098.4	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	0.6/2.0	1, 1, 1, 1	515			OH	20'-22': ORGANIC CLAY (OH): clay, 50% organic fibers, damp, grey to reddish brown, strong hydrogen sulfide-like odor.	
24	1.2/2.0	1, 1, 1, 2	22				22'-24': ORGANIC CLAY (OH): clay, 10% organic fibers (light tan roots - horizontal) damp, grey.	
26	1/2.0	5, 7	31.2				24'-25': SAA	
		7, 9	444				25'-26': SAND (SW): medium to coarse sand, interbedded (beds 1" thick), 1" bands of NAPL coating at 25.2' and 25.8', strong naphthalene-like odor.	
28	1.7/2.0	5, 5, 8, 10	624				26'-28': SAND (SP): fine to medium sand, 10% coarse sand, poorly sorted, wet, NAPL coated, 1" NAPL saturated lenses at 26' (viscous) and 27' (non-viscous).	
30	1/2.0	5, 5, 7, 8	1261				28'-30': SAA: 1" NAPL saturated lenses at 28.5' and 28.6'.	
32	1/2.0	1, 1, 2, 1	1015, 77.6				30'-32': SAA: grey, NAPL in lenses 30-31' bgs.	
34	1/2.0	2, 2, 2, 2	307, 199				32'-33': SAND (SW): fine sand, well sorted, wet, grey, strong naphthalene-like odor, thin (0.5") viscous NAPL saturated lens at 32'.	
36	0.5/2.0	2, 3, 5, 5	277			SW	33'-34': SILTY SAND (SW): interbedded fine sand and silt.	
38	1/2.0	6, 8, 8, 12	2609				34'-34.5': SAA 34.5'-36': SAND (SW): fine sand, well sorted, strong hydrogen sulfide-like odor.	
40	1/2.0	4, 6, 4, 6	1777			SP	36'-38": SAND (SP): interbedded fine and medium to coarse sand beds, wet, grey, 0.5" NAPL saturated lenses in medium to coarse sand from 36 to 36.5, 1" NAPL saturated ,lenses in medium to coarse sand at 36.8.	
							38'-40': SAND (SP): fine sand with fine sand size crushed shells, NAPL saturated.	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-10

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686558.1 **Easting:** 649098.4	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	1.8/2.0	2 4 4	2236			SP	40'-41.5': SAA: thick NAPL lenses.	SB-10(40-41.5)100709
42		6	196			CL	41.5'-42': SANDY CLAY (CL): clay, micro lenses of very fine sand, low plasticity, wet, grey.	
44	0/2.0	4 4 6 8						
46	2/2.0	1 2 3 3	3374				44'-46': INTERBEDDED SAND CLAY (CL): interbedded clay and fine sand, beds are 3" thick, sand is NAPL saturated.	
48	1.5/2.0	4 5 5 5	25.5				46'-48': INTERBEDDED CLAY (CH): plastic clay, finely interbedded with micro fine sand beds.	
50	1/2.0	4 3 4 3	34.7					SB-10(48-50)092709

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-11

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649222.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.6	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Hollow Stem Auger (Truck mounted CME 55)	**Water Level (ft):** 8
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 64.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
			1.4				0.0'-1.0': SAND and GRAVEL (Fill): medium to coarse sand, 40% coarse gravel and cobbles, dry, brown.	
2			3.1				1.0'-2.0': SAA: moist, black.	
	NA	NA	9.2				2.0'-3.0': SAA: moist, black, plastic, paper, and wood pieces.	
4			2.8				3.0'-4.0': SAA: plastic, wood, rags, rope.	
			8				4.0'-5.0: SAA	SB-11(54-56)100609
6	0.8/1.0	6 32	2.4				5.0'-6.0': SILTY SAND (Fill): little wood, damp, black.	
8	0.5/2.0	48 30 48 38	1.9				6.0'-6.3': BRICK (Fill): some crushed concrete. 6.3'-8.0': SILT and SAND (Fill): dry, brown.	
10	0.5/2.0	22 38 40 48	3.2			FILL	8'-10': GRAVEL and SAND (Fill): some slag, wet, brown.	
12	0.4/2.0	28 8 8 7	1.7				10'-12': GRAVELY SAND (Fill): some brick, trace ash-like material, wet, brown.	
14	1.0/2.0	37 28 11 9	2.2				12'-14': SAND (Fill): fine sand, little gravel, ash like material and cinders, wet, dense, black and brown, moderate naphthalene-like odor.	
16	1.4/2.0	12 15 15 15	4.5 3.5				14'-14.5': SAA (Fill) 14.5'-15.5': GRAVELY SAND (Fill): fine to medium, trace coarse sand, wet, brown. 15.5'-16': SILT (Fill): wet, loose, black.	
18	2.0/2.0	14 7 6 6	27.5				16'-18': SAND (Fill): some slag, trace wood, wet, strong to moderate naphthalene-like odor, NAPL coating from 17.9'-18'.	SB-11(16-18)100609
	1.6/2.0	2 2	4.5			PT	18'-19': PEAT (PT): little clay, wet, strong sulfur-like odor.	
20		1 2	1.3			OH	19'-20': ORGANIC CLAYEY SILT (OH): interbedded with wood fibers, wet, soft, tan.	

Remarks: Boring Terminated (ft): 64.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-11

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649222.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.6	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Hollow Stem Auger (Truck mounted CME 55)	**Water Level (ft):** 8
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 64.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	2.0/2.0	WOH WOH WOH WOH	1.6			OH	20'-22": ORGANIC CLAYEY SILT (OH): interbedded with wood fibers, wet, soft, tan.	
24	2.0/2.0	WOR WOR WOR WOR	1.2				22'-24': SAA: dark gray, non-plastic, cohesive.	
26	1.7/2.0	3 11 16 17	20.5 92.7			PT	24'-25': SAA 25'-26': PEAT (PT): moist, black and dark brown to reddish brown, friable,	
28	2.0/2.0	13 20 22 34	64.3			SW	26'-28': SAND (SW): well sorted, interbedded fine and coarse sand, wet, gray, naphthalene-like odor, sheen, NAPL at 26.6'-26.8' and 27.4'-27.9'.	
30	1.8/2.0	9 13 18 15	262				28'-30': SAA, scattered moderate sheen throughout, strong naphthalene-like odor, grains covered with NAPL from 29.5'-30'	
32	0.5/2.0	9 8 3 2	1012				30'-32': fine to coarse sand, wet, grayish brown, strong naphthalene-like odor, saturated with non-viscous reddish brown NAPL like material at 30'-30.4'.	
34	1.5/2.0	6 19 18 23	1674 107			OL	32'-32.5': SAA: saturated with NAPL like material 32.5'-34': SAND and SILT (OL): interbedded sand and silt, wet, gray, soft, slight naphthalene-like odor.	SB-11(32-32.5)100609
36	0.8/2.0	WOH WOH 2 6	48.3 84.7				34'-35': SAA 35'-36': SAND (SP): fine to coarse sand, wet, dense, moderate naphthalene-like odor.	
38	1.4/2.0	9 12 14 15	1078			SP	36'-38': SAA, Grains covered with NAPL at 36.5. NAPL saturated lenses from 37.5'-37.8'.	
40	0.4/2.0	4 5 9 10	1580			ML	38'-40': SAND and SILT (ML): interbedded fine to medium sand and silt, wet, sand beds are saturated with NAPL.	

Remarks: Boring Terminated (ft): 64.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-11

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649222.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.6	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Hollow Stem Auger (Truck mounted CME-55)	**Water Level (ft):** 8
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 64.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	0.7/2.0	13 38 44 33	2119			SW	40'-42': SAND (SW): fine to coarse sand, wet, gray, NAPL coated grains 40'-40.5'. Saturated with NAPL from 41'-41.5'.	
44	1.3/2.0	13 23 22 21	7150				42'-44': SAA: saturated with NAPL from 42'-44'.	
46	1.2/2.0	WHO WHO 10 10	1442 56.4			CL	44'-44.25': SAA: saturated with NAPL like material from 44'-44.25'. 44.25'-46': CLAY (CL): interbedded clay, sand and silt, gray.	
48	1.3/2.0	12 17 13 10	8.3				46'-48': SAA	
50	1.2/2.0	WHO WHO 20 30	12.6 340			SW	48'-49': SAA 49'-50': SAND (SW): fine sand, trace medium coarse sand, strong naphthalene-like odor.	
52	0.7/2.0	7 8 11 15	14.6			CL	50'-52': CLAY (CL): interbedded clay and sand, moist.	
54	1.3/2.0	8 8 9 8	1692 39.2				52'-53': SAA: sand beds are saturated with NAPL. 53'-54': CLAY (CL): gray and orangish brown, stiff.	
56	1.2/2.0	6 6 6 7	14.5				54'-56': SAA	
58	1.3/2.0	4 4 5 4	12.2				56'-58': SAA	
60	1.2/2.0	4 4 5 4	4.2				58'-60': SAA	

Remarks: Boring Terminated (ft): 64.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-11

Client: National Grid	**Location:** 252 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649222.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.6	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Hollow Stem Auger (Truck mounted CME 55)	**Water Level (ft):** 8
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 64.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
	1.1/2.0	WHO	6.2			CL	60'-62": CLAY (CL): gray and orangish brown, stiff.	
		5						
		4						
62		4						
	1.2/2.0	3	3.8				62'-64': SAA	
		4						
		5						
64		3						

Remarks: Boring Terminated (ft): 64.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-12

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger (Mobile B-48 ATV Rig)	**Water Level (ft):** 8
Finish Date: 10/1/2009	**Borehole Diameter:**	**Total Depth (ft):** 12.2

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
			2.2				0.0'-1.0': SAND (Fill): medium sand, little stone, black and brown.	
			2.9				1.0'-2.0': SAA (Fill)	
2								
	NA	NA	4.6				2.0'-3.0': SAA (Fill)	
			8.3				3.0'-4.0': SAND (Fill): medium sand, little stone and slag, moist, black and brown.	
4								
			25.3				4.0'-5.0: SAND (Fill): medium sand, some stone, dry, brown, NAPL lens from 4.3'-4.5' bgs.	SB-12(4-5)092509
	0.3/1.0	16	5.2				5.0'-6.0': GRAVELY SAND (Fill): damp, brown, dense.	
6		17						
		1				FILL	6.0'-8.0': SAA (Fill)	
	0.5/2.0	7	2.2					
		4						
8		6						
		1					8.0'-10.0': ASH (Fill): ash like material, trace wood fragments, stained black, trace sheen.	
	0.4/2.0	1	5.4					
		1						
10		1						
		5	17.4				10'-11': SILT and SAND (Fill): stained black.	
	1.4/2.0	4						
		4	5.5				11'-12': ASH (Fill): ash and wood, trace NAPL coating.	SB-12(10-12.2)100109
12		4						
	0.1/0.2	50/0.2	34				12'-12.2': Refusal, concrete in tip of spoon.	

Remarks: Boring Terminated (ft): 12.2

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-12B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686661.3 **Easting:** 649313.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger (Mobile B59 Truck Mount)	**Water Level (ft):** 8
Finish Date: 11/3/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0.5				Soil descriptions from 0-7.5 ft bgs see log for TP-3. See also, note 3.	
			1					
4			1.5					
			1.7					
6	1/1.0	21	1.8					
		17						
8	0.6/2.0	9						
		8						
		8						
		9					7.5'-12': Refer to SB-12.	
10	NA	NA				FILL		
12	NA	NA						
14	0.9/2.0	2	145				12'-14': GRAVEL (Fill): poorly sorted, wet, black, strong fuel oil-like odor, slight sheen.	
		2						
		2						
		1						
16	1.0/2.0	3	208				14'-16': SAA (Fill)	
		1						
		1						
		2						
18	0.6/2.0	3	81.2				16'-18': SAND (Fill): coarse sand, little coke, wet, black, strong fuel oil-like odor.	
		3						
		1						
		1						
20	1.8/2.0	WOR	33			PT	18'-20': FIBROUS PEAT (PT): trace clay, wet, strong organic odor, soft.	
		WOR						
		WOR						
		WOR						

Remarks: Boring Terminated (ft): 54.0

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Due to refrusal at 12 ft bgs at location SB-12, the location SB-12B

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: SB-12B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686661.3 **Easting:** 649313.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger (Mobile B59 Truck Mount)	**Water Level (ft):** 8
Finish Date: 11/3/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	1.0/2.0	WOH WOH WOH WOH	114			PT	20'-22': SAA	
24	1.0/2.0	WOH WOH WOH WOH	62 8.7			OH	22'-24': ORGANIC CLAY (OH): soft, gray, organic-like odor.	
26	2.0/2.0	WOH WOH 3 4	39.8			PT	24'-25.5': SAA 25.5'-26': PEAT (PT): red, friable, organic odor.	
28	0.7/2.0	2 4 5 5	25.6			SW	26'-28': SAND (SW): fine to medium sand, gray.	
30	0.5/2.0	2 2 4 5				SM	28'-30': SAND (SM): fine sand, 5% silt.	
32	1.1/2.0	8 8 9 11	55				30'-32': SAA: slight naphthalene-like odor.	
34	1.3/2.0	6 5 4 4	36.3 15.3				32'-34': SAA (SM): some red peat, silt layer at 32.5'-33', moist.	
36	0.8/2.0	1 5 6 6	10.1				34'-36': SAA: slight sheen at 34' bgs, slight naphthalene-like odor.	
38	2.0/2.0	4 4 8 9	42				36'-38': SAA: interbedded black silt lenses, very slight naphthalene-like odor.	
40	2.0/2.0	1 2 5 4	95.3				38'-40': SAND (SM): fine sand, 10% silt, trace interbedded silt lenses, moist, slight naphthalene-like odor.	

Remarks: Boring Terminated (ft): 54.0

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Due to refrusal at 12 ft bgs at location SB-12, the location SB-12B

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: SB-12B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686661.3 **Easting:** 649313.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.3	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger (Mobile B59 Truck Mount)	**Water Level (ft):** 8
Finish Date: 11/3/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	1.0/2.0	8 8 9 11	73.2			SM	40'-42': SAND AND SILT (SM): interbedded fine sand and silt, moist, brown, NAPL saturated at 41'-41.2' and 41.8'-42', strong naphthalene-like odor.	SB-12B(40-42)110309
44	2.0/2.0	3 3 4 3	22.1				42'-44': SAND (SW): fine sand, trace silt and clay, moist, brown, trace spots of hydrocarbon like sheen from 42'-43', slight naphthalene-like odor.	
46	1.3/2.0	4 4 4 4	128				44'-46': SAA (SW): moderate naphthalene-like odor.	
48	2.0/2.0	4 3 3 4	64				46'-48': SAND (SW): fine to medium sand, little clay lenses and trace silt, moist, brown, loose.	
50	0.6/2.0	2 3 2 2	1.7				48'-50' SAA (SM)	SB-12B(48-50)110309
52	0.9/2.0	5 3 3 3	2.3				50'-52': SAA (SW)	
54	0.8/2.0	4 4 4 4	1.3			SW	52'-54': SAND (SW): medium to fine sand, trace silt, moist, brown.	

Remarks: Boring Terminated (ft): 54.0

Due to refrusal at 12 ft bgs at location SB-12, the location SB-12B

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: SB-13

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686607.1 **Easting:** 649033.2	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** NA
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 25.5

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
						Concrete	0-0.92': CONCRETE PAD.	SB-13(0-1)092709
			18.7					
			10.9				0.92'-1.0': SAND (Fill): medium sand, some wood, plastic, paper and metal, moist, black. 1.0'-2': SAA (Fill)	
2								
	NA	NA	16				2.0'-3.0': SAA (Fill)	
			114				3.0'-4.0': SAA (Fill)	
4								
			14.5				4.0'-5.0: SAA (Fill)	
	1/1.0	3	16.7				5.0'-6.0': WOOD (Fill): wood in tip of the cutting shoe.	
6		7						
		15					6.0'-8.0': WOOD (Fill): some white and tan crushed stone.	
	0.3/2.0	17	49.8					
		16						
8		19						
		5					8'-10': WOOD (Fill): wood fibers, little slag, strong naphthalene-like odor, heavy sheen.	
	1.2/2.0	7	143					
		8						
10		10				FILL		
		6					10'-12': SLAG (Fill): some brick fragments, little sand, strong naphthalene-like odor, heavy sheen.	
	0.6/2.0	7	27.4					
		9						
12		10						
		2					12'-14': SAA (Fill)	
	0.5/2.0	3	568					SB-13(12-14)092809
		4						
14		5						
		5					14'-16': SAND (Fill): sand and slag, residual NAPL from 14'-16', becomes NAPL saturated at 16'.	
	0.9/2.0	4	2681					
		4						
16		3						
		2	2507				16'-18': SILT (Fill): some slag and ash-like material, NAPL saturated.	
	0.6/2.0	2						
		2						
18		5						
		3					18'-20': No recovery from 18'-20' bgs.	
	0/2.0	3	NA			NR		SB-13(18-24)092709
		5						
20		6						

Remarks: Boring Terminated (ft): 25.5

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-13

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686607.1 **Easting:** 649033.2	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** NA
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 25.5

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
	0.6/2.0	2 3 6 7	2992			FILL	20'-22': SLAG (Fill): slag, NAPL saturated.	
22								
	0.5/2.0	6 6 4 3	1321				22'-24': SAA (Fill): residual NAPL.	SB-13(18-24)092709
24								
	0.7/1.5'	1 1 50/0	2811				24'-25.5': SAA (Fill): residual NAPL.	

Remarks: Boring Terminated (ft): 25.5

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-14

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.8	**Drilling Company:** Paragon Env Const
Start Date: 9/26/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** NA
Finish Date: 9/27/2009	**Borehole Diameter:**	**Total Depth (ft):** 5.5

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
	NA	NA	7.5			Concrete	0'-1.0': CONCRETE PAD.	
			229			FILL	1.0'-2.0': SAND (Fill): coarse sand, some urban fill, tiles, glass, plastic and stone, moist, black.	SB-14(1-2)092709
2			NA				2.0'-3.0': SAA (Fill)	
			NA				3.0'-4.0': SAA (Fill)	
4			26				4.0'-5.0: ORGANIC MATTER (Fill): some sand, moist, black.	

Remarks: Boring Terminated (ft): 5.5

End of boring at 5.5 ft bgs due to auger refusal.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: SB-14B/ GW-1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686605.7 **Easting:** 649081.9	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 10/17/2009	**Borehole Diameter:**	**Total Depth (ft):** 56.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						Soil descriptions from 0-5 ft bgs see log for SB-14A.	Sand	
5.0	1/1.0	180				5.0'-7.0': GRAVELY SAND (Fill): little wood chips, dry, brown.		
7.0	0.9/2.0	215				7.0'-9.0': SAND (Fill): medium to fine sand, some backfill material, dry, brown and black.		
9.0	1.6/2.0	226		Fill		9.0'-11': SAND (Fill): medium to fine sand. Becomes wet at 10	1" Diam. 0.010 PVC Well Screen	
11.0	0.8/2.0	439				11'-13': SAA (Fill): residual NAPL.		
13.0	0.0/2.0	NA		NR		13'-15': No recovery.		
15.0	0.4/2.0	317		FILL		15'-17': SAND (Fill): NAPL saturated from 15'-15.2'. No sample from 17'-18'.	1" Diam. PVC Sump	
18.0	NA	NA						
19.0	0.6/2.0	159				18'-19': SILTY SAND (Fill): wet, loose, NAPL saturated at 19'.		
20.0		625		PT		19'-20': PEAT (PT): fibrous peat, dark brown.		

Remarks:

Boring Terminated (ft): 56.0

Well removed after water sample collected

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-14B/ GW-1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686605.7 **Easting:** 649081.9	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 10/17/2009	**Borehole Diameter:**	**Total Depth (ft):** 56.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
20								
	1.8/2.0	624		PT		19'-20': PEAT (PT): fibrous peat, dark brown. *(continued)* 20'-22': PEAT (PT): fibrous peat, dark brown.		
22						22.0		
	1.8/2.0	368				22'-24': SAA: little silt and clay.		
24						24.0		
	1.9/2.0	351				24'-24.5': SAA		
						24.5		
		444		SP		24.5'-26' SAND (SP): medium to coarse sand, wet, loose, residual NAPL. 24.5'-25', strong naphthalene-like odor.		
26						26.0		
	1.8/2.0	284				26'-27.5': SAA: wet, heavy sheen.		
		483						
28						27.5		
				SW		27.5'-28: SAND (SW): fine to coarse sand, NAPL saturated lenses at 27.5' and 27.75'.		
	1.0/2.0	364				28'-30': SAND (SW): fine sand, wet, gray, strong naphthalene-like odor, NAPL saturated lenses at 28.4' and 28.8', few spots of sheen.		
30						30.0		
	0.8/2.0	633				30'-32': SAA: NAPL saturated lens at 30.25', NAPL coating 30'-30.25, heavy sheen throughout.		
32						32.0		
	0.8/2.0	638				32'-34': SAND (SW): interbedded fine and medium sand, NAPL saturated lens saturated at 32.25', strong naphthalene-like odor.		
34						34.0		
	0.6/2.0	126				34'-36': SAND (SW): fine sand, trace organic lenses, wet, soft, gray.		
36						36.0		
	0.9/2.0	220				36'-38': SAA		
38						38.0		
	1.2/2.0	2940		SP		38'-40': SAND (SP): fine to medium sand, wet, moderately dense, NAPL saturated.		
40						40.0		

Remarks:

Boring Terminated (ft): 56.0

Well removed after water sample collected

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AECOM Boring and Well Construction Log

BORING #: SB-14B/ GW-1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686605.7 **Easting:** 649081.9	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Paragon Env Const
Start Date: 9/27/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 10/17/2009	**Borehole Diameter:**	**Total Depth (ft):** 56.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
40								
	0.35/2	3.7		SP		38'-40': SAND (SP): fine to medium sand, wet, moderately dense, NAPL saturated. *(continued)* 40'-42': SAND (SP): medium to coarse sand, moderately dense, wet, NAPL saturated.		
42						42.0		
	1.3/2.0	2.3				42'-44': SAA, heavy sheen, saturated with NAPL like material 43.3'.		
44						44.0		
	1.2/2.0			CL		44'-46': SILTY CLAY (CL): trace fine sand lenses, moist, soft.		
46						46.0		
	1.3/2.0	0.7				46'-48': SAA		
48						48.0		
	1.2/2.0	0.6		CH		48'-50': CLAY (CH): gray, plastic.		
50						50.0		
	1.2/2.0	0.7				50'-52': SAA		
52						52.0		
	1.3/2.0	0.6				52'-54': SILTY CLAY (CH): non-plastic.		
54								
	1.2/2.0	0.6						
56						56.0		

Remarks:

Boring Terminated (ft): 56.0

Well removed after water sample collected

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AECOM Boring and Well Construction Log

BORING #: SB-15

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686693.1 **Easting:** 649175.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.9	**Drilling Company:** Paragon Env Const
Start Date: 9/23/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5
Finish Date: 9/29/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
			2.2			FILL	0'-1.0': SAND AND GRAVEL (Fill): sand and gravel, 10% cobbles, moist, black, crushed concrete, tile, wood, and nails.	
2						Concrete	1.0'-2.0': CONCRETE SLAB: not reinforced.	
	NA	NA	4.5				2.0'-3.0': SAND AND GRAVEL (Fill): sand and gravel, little clay.	
4			5.8				3.0'-4.0': SAA	SB-15(3-4)092309
							4.0'-5.0: SAND (Fill): sand, moist, black.	
6	1/2.01'	3 3	1.5				5.0'-6.0': GRAVELLY SAND (Fill): sand, crushed concrete, black slag.	
8	0.5/2.0	6 7 8 8	3.1				6.0'-8.0': SAND (Fill): fine sand, wet, grey, crushed brick.	
10	0.3/2.0	5 7 5 10	8			FILL	8.0'-10': SAND (Fill): sand, wet, black, crushed brick, slag and clinker, moderate to light naphthalene-like odor.	
12	1.4/2.0	5 9 5 8	216				10'-12': SAA: coarse sand size slag, trace solidified NAPL, moderate sheen and moderate to strong naphthalene-like odor.	
14	0.4/2.0	6 3 3 4	315				12'-14': SAA: thin lens of grey silt, numerous NAPL blebs throughout, moderately viscous, strong naphthalene-like odor.	SB-15(12-14)093009
16	0.2/2.0	WOH 1	119				14'-16': SAA: viscous black NAPL blebs throughout.	
			142					
18	1.8/2.0	WOH	342				16.5'-18': FIBROUS PEAT (PT): fibrous peat, reddish brown, soft, strong naphthalene-like odor, trace NAPL coating.	
20	0/2.0	WOR	NA			PT		

Remarks: Boring Terminated (ft): 54.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-15

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686693.1 **Easting:** 649175.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.9	**Drilling Company:** Paragon Env Const
Start Date: 9/23/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5
Finish Date: 9/29/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	0/2.0	WOH	NA			PT		
24	1.3/2.0	WOH WOH 2 4	682 160			OH PT	22'-23.5': ORGANIC CLAY (OH): clay, 30% natural wood fibers, damp, grey, soft, moderately plastic. 23.5'-23.75': FRIABLE PEAT (PT): peat, damp, dark reddish brown, friable.	
26	0.4/2.0	WOH WOH 4 7	1189			SW	23.75'-24': SAND (SW): fine sand, wet, tan. 24'-26': SAND (SW): interbedded fine sand and medium sand, wet, well graded, trace roots, 0.25", thick NAPL lenses and strong naphthalene-like odor throughout.	
28	1.2/2.0	8 10 9 8	916			SP	26'-28': SAND (SP): fine to coarse sand, wet, poorly sorted, moderate sheen, numerous NAPL blebs throughout.	
30	1/2.0	2 3 5 3	815				28'-30': SAA: increasing amount of NAPL blebs, trace clay in tip of spoon.	
32	0.6/2.0	6 6 7 11	1311			SW	30'-32': SAND (SW): interbedded sands, trace clay beds, some sand beds have a NAPL coating.	
34	1.6/2.0	8 7 8 10	1610				32'-34': SAA: 1" thick NAPL saturated lenses interbedded with clean sand, lens become thicker with more NAPL at 32.5 to 34' bgs.	
36	1.2/2.0	4 4 5 7	3214				34'-36': CLAYEY SAND (SC): interbedded sand beds and thin (<1mm) clay beds, sand beds are NAPL saturated.	
38	0.8/2.0	4 7 8 11	1912 142				36'-36.25': SAA: sand beds are NAPL saturated. 36.25'-38': SAA: sand beds are thinner, no NAPL.	
40	1/2.0	3 3 4 5	3380				38'-40': SAA: two 1" thick fine sand beds at 38.5' bgs are NAPL saturated.	SB-15(38-40)093009

Remarks: Boring Terminated (ft): 54.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-15

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686693.1 **Easting:** 649175.8	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.9	**Drilling Company:** Paragon Env Const
Start Date: 9/23/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 7.5
Finish Date: 9/29/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	0.5/2.0	2 3 4 6	119			SW	40'-42': SAA: sand and clay beds are of nearly equal thicknesses, wet, tannish brown, light naphthalene-like odor, no NAPL.	
44	1/2.0	3 3 3 4	1			CL	42'-44': SANDY CLAY (CL): finely interbedded clay and sand.	SB-15(42-44)093009
46	1.8/2.0	3 3 4 5	2.5 3				44'-45': SAA 45'-46': SAA: few very thin sand beds.	
48	1.2/2.0	3 3 5 6	3.2				46'-48': SAA	
50	1/2.0	2 3 4 6	3.8				48'-49': SAA 49'-50': SAA: clay interbedded with thick (1-3") fine to medium sand.	
52	1.4/2.0	3 3 3 3	3.7 1.5			SW CL	50'-51.5': SAND (SW): fine to medium sand, wet, tannish brown, well graded. 51.5-52': CLAY (CL): clay, damp, grey, laminated, few micro sand lenses.	
54	1.5/2.0	3 4 4 5	1.5				52'-54': SAA.	

Remarks: Boring Terminated (ft): 54.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-16A
Sheet 1 of 1

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686670.6 **Easting:** 649204.4	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.3	**Drilling Company:** Paragon Env Const
Start Date: 9/24/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 10/7/2009	**Borehole Diameter:**	**Total Depth (ft):** 15.5

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0.6			FILL	0'-1.0': GRAVELLEY SAND (Fill): medium to fine sand, 30% stones and cobbles, dry.	
			4.5				1.0'-2.0': SAA: medium sand, 30% fine gravel, moist, wood chips/fibers.	
4			17.4				2.0'-3.0': SAA: medium to coarse sand, 30% fine gravel, light naphthalene-like odor.	
			13.4				3.0'-4.0': SAA: medium sand, black, rags, pieces of wood, plastic, threads of string.	
6	0.2/2	15	4.9				4.0'-5.0': SAA: coarse sand, moist, black, timber chips.	
		4	12.6				5.0'-6.0': SAND (Fill): sand, plastic bags and sheeting, wood fibers.	
8	0.3/0.58	17	28.1				6'-8': SAA	
		50/2"						
10	0.9/2	9	10.7				8.0'-10": SAND AND SILT (Fill): sand and silt, wet, brown, piece of brick at 5' bgs, black	
		6						
		4						
		15						
12	0.4/4.8	50/4.8"	65				10'-12': SAA: strong naphthalene-like odor, brick piece at 6.58' bgs.	
14	NA						12'-15': Hard material, no samples collected. Slight 1-2" break at 12' bgs.	
	0.5/0.5	50/6"	458				15'-15.5': ROCK: appears to be a poorly developed mica schist, possibly a boulder. Refusal.	

Remarks: Boring Terminated (ft): 15.5

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-16B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686676.6 **Easting:** 649221.0	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 10/20/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2						FILL	See Boring Log SB-16A for soil descriptions from ground surface to 15.5 ft bgs.	SB-16B(2-3)092409
4								
6								
8								
10								
12								
14								
16	0.08/0.08	50/1"	82.9				15'-17.5': Slow progress, soft and very quiet drilling.	
18	0.8/2							
20	0.5/2	1 1 1 1	82.1			OL	18'-20': ORGANIC CLAY (OL): organic clay, 10% silt, wet, grey, very soft and mucky.	

Remarks: Boring Terminated (ft): 54.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686676.6 **Easting:** 649221.0	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 10/20/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	0.8/2	WOH WOH WOH 1	171			OL	20'-21': SAA: NAPL coating plant fibers at 20.5' bgs. 21'-22': SAA: more fibers, stiffer, NAPL coating plant fibers at 21.5' bgs.	
24	1.2/2	1 1 1 1	148			PT	22'-23': SAA: NAPL coating plant fibers. 23'-24': FRIABLE PEAT (PT): peat, dry, dark reddish brown, friable.	
26	0.4/2	2 4 5 5	426			SM	24'-24.2': SAA: NAPL coated. 24.2'-26': SAND (SM): fine sand, 20% silt and clay, wet, grey, some grains coated with	
28	1.1/2	8 10 14 20	313			SW	26'-28': FINE SAND (SW): fine sand, few thin silty sand beds, wet, grey, medium	
30	0.9/2	10 16 18 21	419			SM	28'-30': INTERBEDDED SANDS (SM): fine sand, 10% medium sand, 5% coarse sand,	
32	1.2/2	11 14 17 20	645			SM	30'-32': SAA: grey very fine sand and silt beds are 1-2" thick, fine sand beds are NAPL	SB-16B(30-32)101909
34	0.9/2	9 14 16 23	442			SM	32'-34': SAA: NAPL saturated from 32-32.5' bgs, thin NAPL saturated lenses from 32.5-34' bgs.	
36	1.1/2	7 11 12 16	487 199			SM	34'-34.25': SAA 34.25'-36': INTERBEDDED SAND AND SILT (SM): interbedded fine sand beds and	
38	0.9/2	7 12 14 15	58.9			ML	36'-38': SAA: moderate naphthalene-like odor.	
40	0.3/2	4 6 6 9	71.5				38'-40': SAA	

Remarks: Boring Terminated (ft): 54.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16B

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686676.6 **Easting:** 649221.0	**Logged By:** Joshua Millard
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Paragon Env Const
Start Date: 10/7/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 8
Finish Date: 10/20/2009	**Borehole Diameter:**	**Total Depth (ft):** 54.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	0.5/2	4 6 7 9	110			ML	40'-42': SAA: interbedded silt and fine sand, damp, grey, soft.	
44	1.2/2	9 11 14 17	82.5				42'-44': SAA: beds are thinner (1/16 to 1/8 inch), a few 1 inch thick sand beds, beds	
46	1.2/2	2 3 2 3	9.3			CH	44'-46': INTERBEDDED SILT AND CLAY (CH): interbedded clay beds and silt beds,	SB-16B(44-46)101909
48	1.3/2	4 5 6 7	2.1				46'-48': SAA	
50	0.95/2	3 4 6 5	2.2				48'-50': SAA:	
52	0.9/2	4 5 7 8	0.5				50'-52': SAA	
54	1.2/2	11 18 15 16	0.3				52'-53': SAA 53'-54': SAA: interbedded brown silt, grey clay, and fine sand, stiff.	

Remarks: Boring Terminated (ft): 54.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	5.0/5.0		13.8			FILL	0.0'-1.5': GRAVELLY SAND (FILL): fine grained sand, ~30% silt, ~30% gravel, wood debris, tile, brick pieces, dry, dark brown, slight naphthalene-like odor.	
			51.4				1.5'-3.0': SAND (FILL): fine grained sand, ~15% silt, concrete pieces, brick debris, wood pieces, dry, dark brown to black, no odor.	
4			23.6				3.0'-5.0': SAA.	
6	4.5/5.0		11.7				5.0'-7.5': SAA, moist.	
8			9.1				7.5'-10.0': SAND (FILL): large angular cobles, ~30% fine grained sand, ~15% silt, wet, light brown, no odor, ~12-inches of concrete from 9-10 ft bgs.	
10			60.7				10.0'-13.0': SILTY SAND (FILL): fine grained sand and silt, ~35% large mica schist cobbles, <5% wood debris, <5% metal debris, wet, dark brown, moderate naphthalene-like odor.	
12	5.0/5.0		334.3					
14			737.9				13.0'-15.0': SAA, few NAPL coated grains, ~6-inches of wood from 14.5-15 ft bgs.	
16	1.3/5.0		538				15.0'-20.0': SAND (FILL): wood pieces, ~20% medium to fine grained sand, wet, brown, slight naphthalene-like odor, NAPL sheen, small NAPL blebs on bag water.	
18								
20								

Remarks: Boring Terminated (ft): 105.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	5.0/5.0		699.9			OH	20.0'-23.0': ORGANIC CLAY (OH): organic clay, soft, wet, gray, NAPL coated plant fibers, NAPL and organic-like odors.	
24			771.9			PT	23.0'-25.0': FIBROUS AND FRIABLE PEAT (PT): friable peat, stiff, wet, brown, NAPL coated.	
26	5.0/5.0		339.7			SP	25.0'-30.0': POORLY GRADED SAND (SP): fine grained sand, ~10% silt, wet, light brown, 4 ft long piece of wood, moderate naphthalene-like odor, some NAPL coated grains from 25-27.5 ft bgs, few NAPL coated grains from 27.5-30 ft bgs.	
28			349.3					
30							30.0'-30.5': WOOD.	
32	5.0/5.0		525				30.5'-35.0': POORLY GRADED SAND (SP): fine grained sand, wet, light brown to gray, moderate naphthalene-like odor, few NAPL coated grains.	
34			1234					
36	5.0/5.0		2130			SM	35.0'-36.0': SILTY SAND (SM): fine grained sand and silt, wet, NAPL saturated, strong naphthalene-like odor.	
38			1529				36.0'-37.5': SAA, light brown, pockets of NAPL saturation.	
40			509.8			SP-SM	37.5'-40.0': POORLY GRADED SAND/SILTY SAND (SP/SM): interbedded fine grained sand and silt, wet, light brown, slight naphthalene-like odor.	

Remarks: Boring Terminated (ft): 105.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	3.0/5.0		140.6			SP-SM	40.0'-43.0': SAA.	
44			56.7			CL	43.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, low plasticity, soft, wet, light brown, slight naphthalene-like odor.	
46	5.0/5.0		32.2				45.0'-50.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, firm, wet, light brown, slight naphthalene-like odor.	
48			2.7					
50								
52	3.0/5.0		12			SW	50.0'-55.0': WELL GRADED SAND (SW): medium to fine grained sand, <5% gravel, wet, light brown, no odor.	
54			4.4					
56	4.0/5.0		0.2			CL	55.0'-60.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, very soft, wet, light brown, no odor.	
58			0.2					
60								

Remarks: Boring Terminated (ft): 105.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	3.8/5.0		5.9			CL	60.0'-65.0': SAA.	
64			3.1					
66	5.0/5.0		46.2				65.0'-70.0': SAA, slight naphthalene-like odor.	
68								
70			71					
72	3.4/5.0		127.4			SW	70.0'-75.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~30% silt, ~20% sub-rounded gravel, wet, brown, moderate naphthalene-like odor, some NAPL saturated grains from 74-75 ft bgs.	
74			590.4					
76			4360					
78	5.0/5.0		8875			SM-SP	75.0'-77.5': SILTY SAND/POORLY GRADED SAND (SM/SP): interbedded silt and medium to fine grained sand, ~20% sub-rounded gravel, wet, NAPL saturated.	
80			1544				77.5'-80.0': SAA, pocket of NAPL saturation from 79-80 ft bgs.	

Remarks: Boring Terminated (ft): 105.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	3.5/5.0		8317			SM-SP	80.0'-82.0': SAA, NAPL saturated.	
84			912.4			CL	82.0'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, firm, wet, dark gray, NAPL coating on outside of clay, few lenses of NAPL saturation inside of clay.	
86	0.0/5.0		NA			NR	85.0'-90.0': No recovery.	
88								
90								
92	4.0/5.0		2583			SW	90.0'-95.0': WELL GRADED SAND (SW): medium to fine grained sand, wet, gray, moderate naphthalene-like odor.	
94			308.1					SB-16C(92.5-95)102211
96	5.0/5.0		74.3			CH	95.0'-99.0': CLAY AND SILTY CLAY OF HIGH PLASTICITY (CH): clay, plastic, firm, wet, gray, no odor.	
98			13.9					
100			10.6			LIG	99.0'-100.0': LIGNITE (LIG): lignite, fine grained sand and silt, black, friable, no odor.	

Remarks: Boring Terminated (ft): 105.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-16C

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686656.4 **Easting:** 649237.9	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/21/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/24/2011	**Borehole Diameter:**	**Total Depth (ft):** 105.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
100								
102	4.5/5.0		0.5			CL	100.0'-100.3': SAA. 100.3'-105.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, firm, wet, gray, no odor.	
104			3.2					SB-16C(102.5-105)102211

Remarks: Boring Terminated (ft): 105.0

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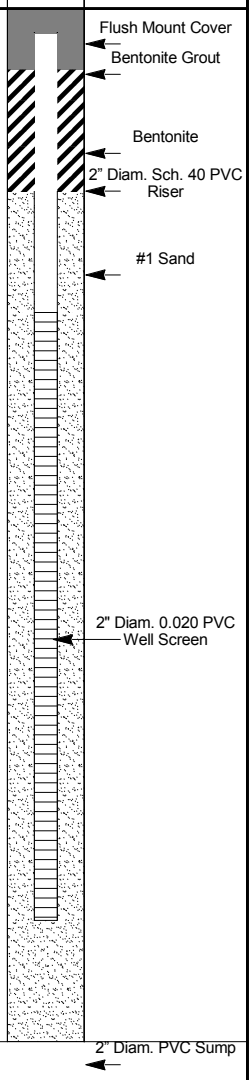
Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

Location ID: MW-07A

Client: National Grid	**Boring Location:** 254 Maspeth Avenue (SB-17)	
Project #: 60273164	**Northing:** 686619.8 **Easting:** 649398.8	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/3/2009	**Ground Elevation (ft NAVD 88):** 12.82	**Soil Sample Collection Method:** DP
Start Date: 11/3/2009 **Finish Date:** 11/3/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Ron Kantre	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-17/MW-7B for Soil and Rock Descriptions			



Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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Definitions:
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4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-17/MW-7B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 50.0
Project #: 60273164	**Northing:** 686604.6 **Easting:** 649316.5	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/28/2009	**Ground Elevation (ft NAVD 88):** 12.70	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/28/2009 **Finish Date:** 10/22/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							FILL			Flush Mount Cover
2	NA	NA	1.7				1.0'-2.0': SAA	1-2		Bentonite Grout
4			6.1				2.0'-3.0': SAA: fine sand, 30% fine gravel, moist, black.			
6	1.0/1.0	14 11	3.3				3.0'-4.0': SAA			
8	0.5/2	14 28 10 8	4				4.0'-5.0': SAA: wet.			
10	0.8/2	3 3 4 3	0				5.0'-6.0': GRAVELY SAND (Fill): sand, 45% gravel, 20% fine sand and silt, dry,			
12	0.6/2	7 6 3 2	5				6.0'-8.0': GRAVELLY SAND (Fill): sand, 45% gravel, wet, dark brown, loose, sub-angular,			
14	1.2/2	4 4 5 6	2.6				8.0'-10': SILTY SAND (Fill): sand, 30% silt, over slag and cinders, loose, sub-angular/2			
16	1.0/2	4 4 3 3	54.6		FILL		0'-1.0': GRAVELLEY SAND (Fill): medium sand, 30% gravel, dry, black.			
18	0.9/2	5 6 5 4	39.6				10'-12': SAA: very loose, oil coating on slag and cinders.			
20	1.8/2	2 2 2 2	219				12'-14': SAA: very loose, oil coating on slag and cinders.			Bentonite Grout
			320				14'-15.5': SAA: slag and cinders, trace white/grey ash.			
			276				16'-17': SAA	16-18		
							17'-18': SAA: 1" thick saturated NAPL lens, viscous, very dark reddish brown, in coarse			
			18.5				MEADOW MAT			
							18'-20': FIBROUS PEAT (PT): fibrous peat, damp, reddish brown, soft, strong			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) Boring was converted into monitoring well MW-7B. 3.) Monitoring well MW-7A was installed in an adjacent boring. 4.) See monitoring well logs MW-7A and MW-7B for well construction details.

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Definitions:
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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-17/MW-7B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 50.0
Project #: 60273164	**Northing:** 686604.6 **Easting:** 649316.5	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/28/2009	**Ground Elevation (ft NAVD 88):** 12.70	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/28/2009 **Finish Date:** 10/22/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22	1.4/2	1 1 1 1	16.7		PT		MEADOW MAT 20'-22': SAA: more degraded and friable from 21-22'bgs. 18'-20': FIBROUS PEAT (PT): fibrous peat, damp, reddish brown, soft, strong			Bentonite Grout
24	1.35/2	2 2 3 2	268		OH		22'-23.5': ORGANIC CLAY (OH): clay, light tannish brown plant fibers, very plastic, 23.5'-24': FIBROUS PEAT (PT) 24'-24.5': FRIBABLE PEAT (PT)			
26	0.9/2	2 1 1 26	401 28.2		SM		24.5-26': SILTY SAND (SM): sand, 30% silt, 10% clay, interbedded with organic			
28	0.75/2	12 15 8 7	50.1		SW		INTERMEDIATE SAND 26-28': FINE SAND (SW): fine sand, 30% fine sand sized crushed shells, interbedded			Bentonite
30	2.0/2.0	3 3 4 5	33.8 40.5		SP SM		28'-29.75': SAND (SP): medium sand, 5% coarse sand, 5% fine sand, wet, grey to tan, 29.75-30': SILTY SAND (SM): fine sand, 10% silt, wet, grey, soft.			#1 Sand
32	0.5/2	7 9 12 12	42.5		SW		30'-32': INTERBEDDED SAND (SW): interbedded fine sand and medium sand beds,			
34	1.4/2	8 4 11 14	61.5		SP					
36	0.5/2	3 4 7 6	55.4				34'-36': INTERBEDDED SAND (SW): interbedded medium sand and fine sand 1" beds, 32'-34': MEDIUM SAND (SP): medium sand, 40% fine sand, 20% coarse sand and			2" Diam. 0.020 PVC Well Screen
38	0.65/2	4 4 5 8	23 777				36'-38': SAA: more medium sand, NAPL saturated in beds from 37.5'-38' bgs.	36-38		
40	0.8/2	6 9 12 8	79.1				38'-40': FINE AND VERY FINE SAND (SW): interbedded fine sand and very fine sand			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) Boring was converted into monitoring well MW-7B. 3.) Monitoring well MW-7A was installed in an adjacent boring. 4.) See monitoring well logs MW-7A and MW-7B for well construction details.

Definitions:
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-17/MW-7B

Client: National Grid	**Boring Location:** 254 Maspeth Avenue	**Total Boring Depth (ft bgs):** 50.0
Project #: 60273164	**Northing:** 686604.6 **Easting:** 649316.5	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/28/2009	**Ground Elevation (ft NAVD 88):** 12.70	**Well Screen Intervals (ft bgs):** 30-40
Start Date: 9/28/2009 **Finish Date:** 10/22/2009	**Drilling Company:** Paragon Env Const	**Well Sump Intervals (ft bgs):** 40-42
Logged By: Joshua Millard	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	0.45/2	5 6 6 8	29.1		SW		40'-42': SAA 38'-40': FINE AND VERY FINE SAND (SW): interbedded fine sand and very fine sand	40-42		1" Diam. PVC Sump
44	0.4/2	8 6 9 9	0.6		ML		42'-44': INTERBEDDED SAND AND SILT (ML): interbedded fine sand beds and silt 44'-46': SAA			
46	0.3/2	4 4 7 6	0							
48	1.1/2	6 7 7 8	0		CL		INTERMEDIATE CLAY 46'-48': INTERBEDDED CLAY AND SAND/2SILT (CL): clay interbedded with fine sand			
50	1.2/2	4 5 8 6	0		CH		48'-50': SAA: plastic.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by hand-digging and vacuum extraction. 2.) Boring was converted into monitoring well MW-7B. 3.) Monitoring well MW-7A was installed in an adjacent boring. 4.) See monitoring well logs MW-7A and MW-7B for well construction details.

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

AECOM Boring and Well Construction Log

BORING #: SB-18

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686598.4 **Easting:** 649370.5	**Logged By:** Joshua Millard and Jennifer Pfeiffer
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0.7				0'-1.0': GRAVELLEY SAND (Fill): coarse sand, 30% stone and gravel, timber chips and	
			0.9				1.0'-2.0': SAA: timber pieces, mesh screen, plastics, tire.	
4			1.9				2.0'-3.0': SAA: medium sand, moist, black, plastic, mesh screen, rags, carpet, wood.	
			1.6				3.0'-4.0': SAA: with cardboard.	
			5.2				4.0'-5.0': SAA	SB-18(4-5)092509
6	1.0/1.0	3	4.8				5.0'-6.0': GRAVELY SAND (Fill): sand, 30% gravel, damp, brown, soft.	
		3						
	0.8/2	8	3.5				6.0'-6.5': SAND (Fill): sand, crushed concrete, wet.	
		6	3.5				6.5'-8.0': FILL: medium sand to fine gravel crushed slag and coke fines, wet, black.	
8		10						
		10				FILL		
	1.0/2	2	5.4				8.0'-10': SAA: slag, little ash and cinders, light sheen in tip, moderate naphthalene-	
		4						
10		4						
		5						
	0.8/2	5	139				10'-12': SAA: fine sand to coarse sand sized slag, some fines, black, loose, spotty sheen,	
		4						
12		3						
		3						
	0.5/2	3	192				12'-14': SAA. Black.	SB-18(12-14)100109
		3						
14		2						
		2						
	1.0/2	1	28				14'-15.5': SAA: with coarse sand size crushed brick, wet.	
		1						
		WOH	159					
16		WOH				PT	15.5-16': FIBROUS PEAT (PT): fibrous peat, reddish brown, hydrogen sulfide-like odor.	
	0.9/2	1	3				16'-18': SILTY ORGANIC CLAY (OL): clay, 30% silt, dark grey, soft and mucky, low	
		1						
		WOH				OL		
18		WOH						
	1.8/2	WOH	11.2				18'-20': SILTY CLAY (CL): clay, 30% silt, dark grey, soft and mucky, low plasticity,	
20						CL		

Remarks: Boring Terminated (ft): 100.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-18

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686598.4 **Easting:** 649370.5	**Logged By:** Joshua Millard and Jennifer Pfeiffer
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	2.0/2.0	WOH WOH WOH WOH	4			OL	20'-22': SILTY ORGANIC CLAY (OL): clay, 30% silt, dark grey, soft and mucky, low	
24	1.3/2	WOH WOH WOH 1	5			OL	22'-24': SAA	
26	2.0/2.0	3 3 3 3	2.4 39 6.6 55			PT SM SW	24'-24.3': SAA: grey, soft 24.3-24.5': FRIABLE PEAT (PT): organic fibers in clay, reddish brown, friable. 24.5'-25.2': ORGANIC CLAY (OH): clay, plant fibers. 25.2'-26': SAND (SW): fine sand, wet, grey, loose, strong naphthalene-like odor.	
28	1.7/2	4 5 7 7	72.7			SW	26'-28': SAND (SW): fine sand, moist, grey, well graded, strong naphthalene-like odor.	
30	1.2/2.0	1 2 4 4	23 52.5			SW SM	28'-29.5': SAA 29.5-30': SILTY SAND (SM): dine sand, 20% silt, moist, grey.	
32	2.0/2.0	2 4 7 7	25.5 63.1			SW SM	30'-31': SAND (SW): fine sand, moist, grey, moderate naphthalene-like odor, light 31'-32': CLAYEY SAND (SM): very fine sand interbedded with 1/4" beds of brown/	
34	2.0/2.0	2 3 6 10	71.1			SM		
36	2.0/2.0	2 3 4 5	63.8			SM	34'-35': SILTY SAND (SM): sand, 30% silt, moist, grey, faint naphthalene-like odor. 35'-36': SILTY SAND (SM): interbedded fine sand and silty clay beds.	
38	1.0/2	7 9 13 15	86			SW	36'-38': SAA: interbedded, brown to dark grey/black, very faint naphthalene-like odor	
40	0.7/2	4 4 7 7	149			SW	38'-40': SAA, firm, 38.35 to 38.40 three black 1/4" lenses.	SB-18(38-40)100209

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-18

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686598.4 **Easting:** 649370.5	**Logged By:** Joshua Millard and Jennifer Pfeiffer
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	0.8/2	2, 2, 2, 3	43			SW	40'-42': SANDY SILT (SM): silt, 30% very fine sand, grayish brown, very faint	
44	1.3/2	2, 2, 3, 4	4.1				42'-43.5: SAA, intermittent beds of medium to coarse sand.	SB-18(42-44)100209
46	2.0/2.0	2, 3, 4, 4	4.1			CL	43.5'-44': SILTY CLAY (CL): clay, 30% silt, brown. 44'-44.5': SANDY SILTY CLAY (CL): clay, 30% sand and silt. 44.5-46': SILTY CLAY (CL): interbedded clay, silt, and very fine sand.	
48	1.7/2	4, 5, 5, 6	2.2, 2.8				46'-47': SILTY CLAY (CL): interbedded silty clay and sandy silty, beds are poorly 47'-48': SILTY CLAY (CL): clay interbedded with silt and sandy silt.	
50	2.0/2.0	3, 3, 3, 4	4.3				48'-48.6': CLAY (CL): clay, 10% fine sand, soft, faint naphthalene-like odor. 48.6'-49.5': SAA: more silt, firm, faint naphthalene-like odor. 49.5'-50': SAA: more clay, faint naphthalene-like odor.	
52	1.4/2	4, 4, 5, 8	5.8				50'-52': SANDY CLAY (CL): clay, 10% sand, interbedded with fine sand.	
54								
56								
58								
60								

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-18

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686598.4 **Easting:** 649370.5	**Logged By:** Joshua Millard and Jennifer Pfeiffer
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							60'-65': No Recovery.	
62			NA			NR		
64								
66			8.5			SW	65'-70': SAND (SW): fine sand, wet, brown.	
68								
70								
72			NA			NR	70'-75': No Recovery	
74								
76			20.1			SP	75'-80': GRAVELLY SAND (SP): rounded medium to coarse sand, 30% fine gravel, wet,	
78							77'-80': moderate to light sheen and naphthalene-like odor. One-inch NAPL saturated lenses	
80			413					

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-18

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686598.4 **Easting:** 649370.5	**Logged By:** Joshua Millard and Jennifer Pfeiffer
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Paragon Env Const
Start Date: 9/25/2009	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 10/6/2009	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80			537			SP	80'-81.5': SAND (SP): fine to medium sand, 10% coarse sand, wet, loose, NAPL blebs.	
82			435			GP	81.5'-82.8': SANDY GRAVEL (GP): rounded fine gravel. 30% coarse sand, 10% medium	
84			458				82.8'-85': SAND (SW): fine sand, 5% medium sand, wet, orange tan and brown, iron oxide	
86			200			SW	85'-88.7': SAND (SW): fine to medium sand, wet, medium dense, moderate sheen, blebs,	
88			281					
90			102			SP	88.7'-90': SAND (SP): medium sand, 10% fine sand, wet, medium dense, moderate to light	
92			NA			NA	90'-95': No Sample collected.	
94								
96						SP	95'-96.5': SAND (SP): fine sand, 20% silt, 10% medium to coarse sand, wet, iron oxide	
98			22.4				96.9'-100': SILTY CLAY (CL): clay and silt, grey, stiff, dry.	
100			12.4					

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686528.9 **Easting:** 649024.0	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 11/6/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	5.0/5.0	45.3			FILL	0.0'-0.5': CONCRETE (FILL): broken concrete pieces. 0.5'-2.0': WOOD (FILL): wood fibers, dry, black, organic odor.	
4		370.9				2.0'-3.0': SAND (FILL): fine grained sand and wood fibers, dry, black, slight naphthalene-like odor, cobbles and wood layer at 3 ft bgs. 3.0'-5.0': SAND (FILL): medium to fine grained sand, ~30% wood fibers, tile pieces, rubber, and metal debris, wet, black, slight naphthalene-like odor.	SB-19(2-5)103011
6	5.0/5.0	2				5.0'-8.5': SAND (FILL): wood fibers, ~30% fine grained sand, metal debris, plastic and wire debris, ~5% cobbles up to 6 inches in diameter, moist, organic odor.	
8		38.2					
10		2.4				8.5'-9.0': SAND AND SILT (FILL): fine grained sand and silt, moist, dark brown, ~20% brick debris, ~10% rounded gravel, organic odor. 9.0'-10.0': SAND, SILT (FILL): fine grained sand, ~10% silt, 5% brick debris, moist, black, no odor.	
12	2.0/5.0	15.4				10.0'-15.0': GRAVEL AND SAND (FILL): cobbles up to 5 inches in diameter, angular gravel, ~30% fine grained sand, ~5% brick debris, ~10% wood debris, ~10% silt, wet, black, slight naphthalene-like odor.	
14							
16	5.0/5.0	157.6				15.0'-17.0': SILT, SAND, COBBLES (FILL): silt and fine grained sand, <5% rounded cobbles, metal debris, wet, gray, strong naphthalene-like odor.	
18		704.8				17.0'-18.0': SLAG (FILL): slag, wet, heavily NAPL-coated.	
20		119.4				18.0'-19.5': SILTY SAND (FILL): interbedded silty sand, <5% rounded gravel, wet, tan and gray, strong naphthalene-like odor.	
		119.9			PT	19.5'-20.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat and clay, wet, brown, organic odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686528.9 **Easting:** 649024.0	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 11/6/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.0/5.0	131.9			OH	20.0'-23.0': ORGANIC CLAY (OH): organic clay, ~10% plant fibers, soft, plastic, wet, gray, slight organic odor.	
24		137.9			SM	23.0'-25.0': SILTY SAND (SM): fine grained sand and silt, wet, gray, no odor.	
26	4.5/5.0	208.8			SW	25.0'-27.5': WELL GRADED SAND (SW): medium to fine grained sand, <5% rounded gravel, wet, gray, strong naphthalene-like odor, few NAPL coated grains.	
28		564.3			SM	27.5'-29.0': SILTY SAND (SM): interbedded gray fine grained sand and light brown silt, wet, NAPL coated from 27.7-28.1 ft bgs, strong naphthalene-like odor.	
30		847.7				29.0'-30.0': SILTY SAND (SM): silt and sand, two rounded cobbles up to 5 inches in diameter, wet, light brown, moderate naphthalene-like odor.	
32	5.0/5.0	1323				30.0'-35.0': SILTY SAND (SM): fine grained sand and silt, ~25% rounded cobbles up to 6-inches in diameter, wet, light brown, few pockets of NAPL coated sand from 30-32.5 ft bgs, strong naphthalene-like odor, slight naphthalene-like odor 32.5-35 ft bgs.	
34		122.4					
36	2.5/5.0	80.4			SW	35.0'-40.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~10% rounded gravel up to 2-inches in diameter, wet, light brown, moderate naphthalene-like odor.	
38							
40							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686528.9 **Easting:** 649024.0	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 11/6/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	5.0/5.0	94.4			SW	40.0'-44.0': SAA, <5% cobbles up to 5-inches in diameter.	
44		102					
		855.5				44.0'-44.5': SAA, NAPL saturated.	
					SM	44.5'-45.0': SILTY SAND (SM): fine grained sand & silt, wet, light brown, moderate naphthalene-like odor.	
46	0.0/5.0	593.4 NA			NR	45.0'-50.0': No recovery.	
48							
50							
52	1.5/5.0	558.7			SW	50.0'-55.0': WELL GRADED SAND (SW): coarse to medium grained sand, ~40% subrounded gravel up to 3-inches in diameter, wet, brown, strong naphthalene-like odor.	
54							
56	0.5/5.0	50.1				55.0'-60.0': WELL GRADED SAND (SW): coarse to medium grained sand, subrounded gravel, wet, strong naphthalene-like odor.	
58							
60							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686528.9 **Easting:** 649024.0	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 11/6/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62	0.0/5.0	NA			NR	60.0'-65.0': No recovery, flapper bit was open.	
64							
66	0.0/5.0	NA			NR	65.0'-70.0': No recovery, flapper bit was open.	
68							
70							
72	1.0/5.0	86.4			SW	70.0'-75.0': WELL GRADED SAND (SW): fine to medium grained sand with fine to medium gravel, poorly sorted, well graded, wet, orange brown, iron stained, moderate naphthalene-like odor.	SB-19(70-75)110611
74							
76	3.5/5.0	10.7				75.0'-80.0': WELL GRADED SAND (SW): medium to fine grained sand, ~30% coarse grained sand, ~15-20% medium to fine gravel, wet, orange brown, slightly dense from 78-80 ft bgs due to ~10% silt and reduced sorting, slight to moderate naphthalene-like odor.	
78		8.9					
80							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686528.9 **Easting:** 649024.0	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 11/6/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	3.0/5.0	4.2			SW	80.0'-85.0': WELL GRADED SAND (SW): medium to fine grained sand, ~20% coarse grained sand, soft, wet, orange brown, no odor.	
84		4.4					
86	5.0/5.0	2.1				85.0'-87.8': SAA, no odor.	SB-19(85-87.5)110611
88		1.5			CL	87.8'-90.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, stiff, low plasticity, wet, dark gray.	
90							
92	5.0/5.0	1.2				90.0'-91.0': SAA, red silt and clay, plastic lense from 90.4-90.5 ft bgs.	
		0.4				91.0'-92.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silt and organic clay, stiff, wet, dark brown.	
					LIG	92.0'-93.0': LIGNITE: silt and organic matter, black, moderately loose, crumbles.	
94		0.6			CL	93.0'-95.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, ~10% fine grained sand, stiff, low plasticity, wet, light gray.	
96	5.0/5.0	0.6				95.0'-100.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, <5% fine grained sand, stiff, low plasticity, wet, light gray, no odor.	
98		0.6					
100							

Remarks: Boring Terminated (ft): 100.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

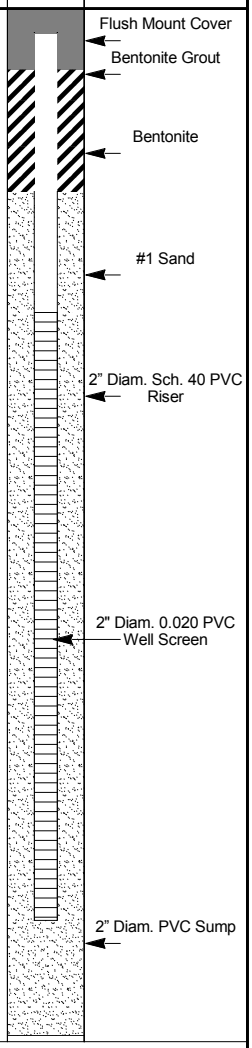
Boring and Well Construction Log

Location ID: MW-08A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	
Project #: 60273164	**Northing:** 686619.8 **Easting:** 649398.8	**Total Boring Depth (ft bgs):** 17.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 7 7/8
Site Loc: 11/3/2009	**Ground Elevation (ft NAVD 88):** 12.82	**Soil Sample Collection Method:** DP
Start Date: 11/3/2009 **Finish Date:** 11/3/2009	**Drilling Company:** Paragon Env Const	**Well Screen Intervals (ft bgs):** 5-15
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-20/MW-08B,C for Soil and Rock Descriptions			



Notes:

1.)pre-cleared to 5 ft bgs by hand digging and vacuum extraction

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
0									
2	5.0/5.0	68		FILL		0.0'-2.0': CONCRETE AND SANDY GRAVEL (FILL): top 6-inches concrete, sandy gravel, some silt, stained, naphthalene-like odor, pieces of solid NAPL.			1-2
4		0				2.0 2.0'-5.0': BOULDER, SILT, SAND (FILL): boulder, some silt and fine grained sand, brown.			
6	4.0/5.0	4.3				5.0 5.0'-9.0': COBBLES AND GRAVEL (FILL): cobbles, 3 and 5-inches in diameter, gravel, 30-40% silty sand, light brown, no odor.			
8		1							
10		1.8				9.0 9.0'-10.0': SAA, very dense. 10.0 10.0'-15.0': SAA, olive grey, slight fuel like odor.			
12	2.0/5.0	16.3							
14		7.6				13.5 13.5'-15.0': WOOD (FILL): wood core, no NAPL staining.			
16	5.0/5.0	163.7							
18									
20		312.5				20.0			

Remarks: Boring Terminated (ft): 110.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
20									
22	5.0/5.0	ND				0.0'-2.0': CONCRETE AND SANDY GRAVEL (FILL): top 6-inches concrete, sandy gravel, some silt, stained, naphthalene-like odor, pieces of solid NAPL. *(continued)* 20.0'-24.0': WOOD (Fill): vertical wood (possible piling), organic-like odor.			
24						24.0			
		7.1		SM		24.0'-25.0': SILTY SAND (SM): silty sand, bed of 2-inch clay and peat, dark grey, slight fuel-oil like odor.			
						25.0			
26		86.3				25.0'-27.0': SAA with vertical broken wood core.			
						27.0			
28	5.0/5.0					27.0'-30.0': SILTY SAND (SM): silty sand, 3-inch of interbedded clay at 28 ft bgs, light and olive grey, slight fuel oil-like odor.			
		34.5							
30						30.0			
				NR		30.0'-40.0': No Recovery. Suspected it was snagged beneath wood and vibrated off. Spinning and vibration was needed to rise casing once it was down to 40 ft bgs.			
32									
	0.0/5.0	NA							
34									
36									
	0.0/5.0	NA							
38									
40						40.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40									
42	4.5/5.0	20.7		SM		40.0'-45.0': SILTY SAND (SM): silty sand, fine to medium grained sand, trace wood debris, wet, some naphthalene-like odor.			
44		68.7							
						45.0			
						45.5 45.0'-45.5': SAA.			
46	5.0/5.0	96.5		CL		46.0 45.5'-46.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): interbedded clay and silt. 46.0'-50.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, stiff, olive grey, no odor.			
48									
50		2.8				50.0			
52	0.0/5.0	NA		NR		50.0'-55.0': No Recovery.			
54						55.0			
56	4.5/5.0	0		CL		55.0'-60.0': SAA, with some interbedded stacking of silt.			
58									
60						60.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						55.0'-60.0': SAA, with some interbedded stacking of silt. *(continued)* 60.0'-61.5': SAA, with 5% interbedded fine grained sands, 5% gravel.			
		3.1				61.5			
62	4.5/5.0	58.1		SM		61.5'-63.5': SILTY SAND (SM): silty sand, 5% gravel, light grey and olive grey, naphthalene-like odor.			
						63.5			
64		24.7				63.5'-65.0': SILTY SAND (SM): silty medium to fine grained sand, light brown, trace blebs of NAPL on top, some naphthalene-like odor.			
						65.0			
66				SW		65.0'-70.0': WELL GRADED SAND (SW): fine to course grained sand, 10% silt, 10% gravel, naphthalene-like odor.			
		53.5							
68	5.0/5.0	255.7							
70						70.0			
						70.0'-73.0': SAA, trace NAPL, strong naphthalene-like odor.			
72		226.9							
	5.0/5.0					73.0			72.5-75
						73.0'-75.0': NAPL saturated sands interbedded with silt.			
74		679.9							
						75.0			
76		1677				75.0'-80.0': WELL GRADED SAND (SW): medium to fine grained sand, 10% silt, 10% gravel, reddish brown, strong NAPL odor, lens of NAPL saturation, clay at bottom 6-inches.			
78	ND/5.0	793							
80		19.6				80.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80									
82	ND/5.0	273		CL		80.0'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY: clay, dark grey, some odor in top foot of sample, 5% lenses of medium to fine grained sand, some silt lenses.			
84		47.3				85.0			
86	NA/5.0	NA		NA		85.0'-90.0': No Recovery.			
88									
90						90.0			
92	NA/5.0	NA		NR		90.0'-95.0': No Recovery.			
94						95.0			
96	NA/5.0	NA		NR		95.0'-100.0': No Recovery.			
98									
100						100.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-20/MW-08B,C

Client: National Grid	**Boring Location:** 222 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686682.9 **Easting:** 649046.7	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/25/2011	**Ground Elevation (ft NAVD 88):** 12.80	**Well Screen Intervals (ft bgs):** 30-40 and 70-80
Start Date: 9/25/2011 **Finish Date:** 9/26/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 80-82
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 7.5

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100									
				NR		100.0'-105.0': No Recovery.			
102	0.0/5.0	0							
104						105.0			
				NC		105.0'-110.0': Not Documented.			
106									
108	0.0/5.0	0							108-110
110						110.0			

End of boring at 110.0 ft. bgs.

Remarks: Boring Terminated (ft): 110.0

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Notes:

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	5.0/5.0		8.4			FILL	0.0'-0.2': CONCRETE (FILL). 0.2'-5.0': GRAVELY SAND (Fill): fine to coarse grained sand, 20% silt, 20% fine to coarse grained gravel, cobbles, brick fragments, wood fragments, clack, no odor, dry.	
4								
6	5.0/5.0		32.1				5.0'-10.0': SAA, moderate naphthalene-like odor.	
8								
10								
12	1.0/5.0		347.9				10.0'-15.0': SAA, slight naphthalene-like odor.	
14								
16	1.0/5.0		4.4				15.0'-17.0': SAA, no odor.	
18			0.2			SW	17.0'-20.0': WELL GRADED SAND (SW): fine to course grained sand, 10% silt, 10% fine grained gravel, cobbles, brown, no odor.	
20								

Remarks: Boring Terminated (ft): 250.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	5.0/5.0		25.6			PT	20.0'-25.0': FIBROUS AND FRIABLE PEAT (PT): peat, dark brown, strong organic odor.	
24								
26	1.5/5.0		15.4			SM	25.0'-30.0': SILTY SAND (SM): fine to medium grained sand, 20% silt, grey, wet, slight naphthalene-like odor.	
28								
30								
32	2.0/5.0		ND			SP	30.0'-35.0' POORLY GRADED SAND (SP): fine grained sand, <5% silt, grey, wet, moderate naphthalene-like odor.	
34								
36	5.0/5.0		244				35.0'-37.0': SAA, strong naphthalene-like odor.	
38			0			CL	37.0'-40.0': CLAY AND SILTY CLAY OF LOW PLASTICITY: clay, grey, no odor.	
40								

Remarks: Boring Terminated (ft): 250.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	5.0/5.0		0				40.0'-45.0': SAA, wet, no odor.	
44								
46	5.0/5.0		0			CL	45.0'-50.0': SAA, wet, no odor.	
48								
50	5.0/5.0		0				50.0'-55.0': SAA, no odor.	
52								
54								
56	4.0/5.0		403			SW	55.0'-60.0': WELL GRADED SAND (SW): fine to coarse grained sand, 10% silt, 10% fine to coarse grained gravel, cobbles, wet, coated with NAPL, brown, strong naphthalene-like odor.	
58								
60								

Remarks: Boring Terminated (ft): 250.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	3.5/5.0		313			SW	60.0'-65.0': WELL GRADED SAND (SW): fine to course grained sand, 10% silt, 10% fine to course grained gravel, cobbles, stringers of sand coated with NAPL, strong naphthalene-like odor.	
64								
66	4.0/5.0		322				65.0'-70.0': SAA, wet, strong naphthalene-like odor.	
68								
70	2.4/5.0		251				70.0'-75.0': SAA, wet, no visible NAPL, strong naphthalene-like odor.	
72								
74	5.0/5.0		398				75.0'-80.0': SAA, wet, coated with NAPL, strong naphthalene-like odor.	
76								
78								
80								

Remarks: Boring Terminated (ft): 250.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
			0.5				80.0'-81.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): interbedded clay, <5% fine grained sand, <5% silt,5% shell fragments and plant material, grey and dark grey, wet, no odor.	
82							81.0'-84.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 15% fine grained sand, 15% silt, <5% fine to coarse grained gravel, 5% cobbles, brownish grey, wet, no odor.	
	5.0/5.0		0.2			CL		
84								
						SP	84.0'-84.5': POORLY GRADED SAND (SP): fine grained sand, 20% silt, 10% clay, brown, wet, no odor.	
							84.5'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 10% fine grained sand, 10% silt, <5% fine to course gravel, grey, no odor.	
86							85.0'-90.0': SAA, wet, no odor.	
	5.0/5.0		0					
88								
90						CL		
							90.0'-93.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, <5% fine grained sand, <5% cobbles, grey, no odor.	
92								
	5.0/5.0		0					
94							93.0'-95.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, 5% organics, very dark grey.	
							95'-95.5: SAA.	
96						LIG	95.5'-96.1': LIGNITE (LIG): lignite, black.	
							96.1'-100.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, <5% fine to coarse grained sand, <5% fine to coarse grained gravel, no odor.	
98	5.0/5.0		0					
						CL		
100								

Remarks: Boring Terminated (ft): 250.0

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-20J

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649059.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
100								
102	5.0/5.0		0				100.0'-105.0': SAA, large cobble at 101', wet, no odor.	
104								
106	5.0/5.0		0				105.0'-106.5': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, <5% fine grained sand, 5% cobbles, grey, no odor. 106.5'-109.5': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, <5% cobbles, dark grey to very dark grey, no odor.	
108								
110	5.0/5.0		0			CL	109.5'-110.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, grey, no odor. 110.0'-113.5': SAA, no odor.	
112								
114	5.0/5.0		0				113.5'-114.0": CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, <5% silt, grey, no odor. 114.0'-115.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, grey, no odor.	
116							115.0'-120.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, grey, no odor.	
118	5.0/5.0		0					
120								

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

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Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
120							120.0'-12.05': SAA, 5% fine grained gravel, wet, no odor.	
122	5.0/5.0		0					
124								
126	5.0/5.0		0				125.0'-130.0': SAA, wet, no odor.	
128								
130						CL		
132	4.5/5.0		0				130.0'-135.0': SAA, several 1 to 3-inch thick layers of silty clay, no odor.	
134								
136	5.0/5.0		0				135.0'-138.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silt, < 5% fine grained sand, grey, wet, clay layer at 135-135.5 ft bgs, grades to silty fine grained sand by 138 ft bgs, no odor.	
138						SM	138.0'-140.0': SILTY SAND (SM): silty fine grained sand, grey, no odor.	
140								

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Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
140								
142	5.0/5.0		0			SM	140.0'-141.0': SILTY SAND (SM): fine grained silty sand, grey, wet, no odor. 141.0'-141.5': SILTY SAND (SM): silt, 10% fine grained sand, black, no odor. 141.5'-145.5': SILTY SAND (SM(: fine grained silty sand, grey, wet, no odor.	
144								
146	5.0/5.0		0				145.0'-150.0': SAA, no odor. 145.5'-145.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, mottled red and grey, no odor.	
148								
150								
152	5.0/5.0		0			CL	150.0'-155.0': SAA, no odor.	
154								
156	5.0/5.0		0				155.0'-156.5': SAA, no odor. 156.5'-160.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 10% fine to coarse grained sand, 10% fine to coarse grained gravel, 10% silt, wet, light grey, reddish mottling, no odor.	
158								
160								

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

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Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
160							160.0'-165.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, dense, greenish grey, no odor, wet.	
162	5.0/5.0		0					
164								
166	5.0/5.0		0				165'-170': SAA, no odor.	
168								
170						CL		
172	5.0/5.0		0				170.0'-175.0': SAA, no odor.	
174								
176	5.0/5.0						175.0'-177.0': SAA, <5% fine sand.	
178							177.0'-180.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, dense, greenish-grey, no odor, relic structures visible (saprolite).	
180								

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Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
180							180.0'-181.0': SAA, no odor.	
182	5.0/5.0		0				181.0'-185.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, 10% fine sand, greenish-grey, no odor.	
184								
186	5.0/5.0		0			CL	185.0'-190.0': SAA., no odor.	
188								
190								
192	5.0/5.0		0				190.0'-192.0': SAA, no odor.	
194							192.0'-195.0': BEDROCK (BED): Gneiss (possibly the Fordham Formation), distinct grey, black, and white moderately to well-developed banding with a general dip of 15 to 30 degrees, some areas of moderate folding, breaks in core primarily along biotite rich bands, fractures and faults not easily identifiable.	
196	4.2/5.0		0			BR	195.0'-200.0': SAA, no odor.	
198								
200								

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Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
200							200.0'-205.0': SAA, wet, no odor.	
202	5.0/5.0		0					
204								
206	5.0/5.0		0				205.0'-210.0': SAA, wet, no odor.	
208								
210						BR		
212	5.0/5.0		0				210.0'-215.0': SAA, wet, no odor.	
214								
216	5.0/5.0		0				215.0'-220.0': SAA, wet, no odor.	
218								
220								

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Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
220							220.0'-225.0': SAA, wet, no odor.	
222	5.0/5.0		0					
224								
226							225.0'-230.0': SAA, wet, no odor.	
228	5.0/5.0		0					
230						BR		
232							230.0'-235.0': SAA, wet, no odor.	
234	5.0/5.0		0					
236							235.0'-240.0': SAA.	
238	5.0/5.0		0					
240								

Remarks: Boring Terminated (ft): 250.0

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Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Longyear
Start Date: 7/14/2011	**Drilling Method:** Sonic	**Water Level (ft):** 8
Finish Date: 7/22/2011	**Borehole Diameter:**	**Total Depth (ft):** 250.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
240								
242	5.0/5.0		0			BR	240.0'-245.0': SAA, wet, no odor.	
244								
246	5.0/5.0		0				245.0'-250.0': SAA, wet, no odor.	
248								
250								

Remarks: Boring Terminated (ft): 250.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							FILL	0-5		Flush Mount Cover
2	NA	NA	NA							Bentonite Grout
4										
6	NA	NA	6.6				5.0'-10.0': SANDY GRAVEL (FILL): wood debris, sandy gravel, ~50% black coated with petroleum-like odors, ~20% silt, brown.			
8										
10		NA	2.2							
12	NA	NA	1.6		FILL		0.0'-5.0': SANDY GRAVEL (FILL): sandy gravel, ~25% silt, brown. 10.0'-15.0': SAA, naphthalene-like odors.			
14		NA	16.4							
16	NA	NA	203.1				15.0'-20.0': GRAVELY SAND (FILL): gravely sand, slag pieces, tar coated, pieces of low viscous tar, tar-like odors.			Bentonite Grout
18		NA	251							
20										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-14B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Chelmsford, MA 01824
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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										Bentonite Grout
22	5.0/5.0	NA	400				FILL 20.0'-22.0': SAA, slag, some blebs. 0.0'-5.0': SANDY GRAVEL (FILL): sandy gravel, ~25% silt, brown.			
24		NA	83.2		OH-PT		MEADOW MAT 22.0'-25.0': ORGANIC CLAY/FIBROUS AND FRIABLE PEAT (OH/PT): organic clay and peat, organic odor. 25.0'-27.0': SAA.			
26	3.0/5.0	NA	37.3							
28		NA	71.6		CL		27.0'-30.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): interbedded clay and medium grained sand, soft, slight petroleum-like odor. 30.0'-33.0': SAA, ~25% tar coated.			Bentonite
30										
32	5.0/5.0	NA	101							#0 SAND
34		NA	242.8		SW		INTERMEDIATE SAND 35.0'-38.0': SAA. 33.0'-35.0': WELL GRADED SAND (SW): medium to fine grained sand, ~10% interbedded clay, naphthalene-like odor.			
36		NA	110							
38	5.0/5.0	NA	262							2" Diam. 0.020 PVC Well Screen
40		NA	3020		CL		38.0'-39.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): interbedded clay with sand.			
					SM					

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-14B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

Definitions:
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5.) ppm - parts per million
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10.) WHO - Weight of Hammer
11.) NR - No Recovery

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(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	5.0/5.0	NA	4760		GW		39.0'-40.0': SILTY SAND (SM): silty sand, brownish-red tar lense, coated. 40.0'-43.0': WELL GRADED GRAVEL (GW): gravel, ~30% sand, NAPL observed, tar coated, tar-like odor.			2" Diam. 0.020 PVC Well Screen
44		NA NA	120.5 51.5							1" Diam. PVC Sump
46	5.0/5.0	NA	149				45.0'-47.5': SAA, slight naphthalene-like odor.			
48		NA	3.2				47.5'-50.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, very stiff, no odor.			
50										
52	5.0/5.0	NA	2.3				50.0'-55.0': SAA, ~10% interbedded sand, no odor. 43.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded sand, dense, stiff, naphthalene-like odor.			
54		NA	0.9		CL					
56	5.0/5.0	NA	2.8				55.0'-59.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded fine grained sand, wet, gray, no odor.			
58		NA	26.2				59.0'-60.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, wet.			
60										

Notes:

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1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
60										
62	4.0/4.0						60.0'-63.0': SAA. 43.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded sand, dense, stiff, naphthalene-like odor.			
64		NA	14.4							
66		NA	42				65.0'-75.0': WELL GRADED SAND (SW): 3 ft of sample was lost while pulling up casing, remaining sample consisted of coarse to fine grained sand, interbedded clay, ~10% gravel, some naphthalene-like odors, 4 inch cobble.			
68										
70	5.0/10									
72		NA	47		SW		63.0'-65.0': WELL GRADED SAND (SW): coarse to fine grained sand, interbedded clay, <5% gravel, wet, 3 inch thick lense of stained coarse to medium grained sand, some naphthalene-like odors.			
74		NA	23.2							
76	4.0/5.0	NA	13				75.0'-80.0': SAA, bottom 6 inches is gray, slightly dense, slight naphthalene-like odor.			
78	5.0/5.0	NA	5.2							
80										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-14B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101

Definitions:
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
80							LOWER CLAY			
82	5.0/5.0	NA	261		CL		80.0'-84.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~5% shell deposits, very stiff, dry, dark gray, slight petroleum-like odor.			
84		NA	1.8							
	0.5/5.0				SM		84.0'-85.0': SILTY SAND (SM): medium to fine grained sand, ~30% silt, ~30% interbedded clay, moist, light gray, no odor.			
86										
88		NA	105		NR		85.0'-89.0': No recovery, suspect flowing sands.			
90	4.5/5.0				CL		89.0'-90.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~15% interbedded fine to medium grained sand.			
92		NA	5.3		SW		90.0'-95.0': WELL GRADED SAND (SW): medium to fine grained sand, ~20% interbedded clay, <5% gravel, olive gray, slight petroleum-like odor, 4 inch diameter rock in tip.			
94		NA	5.5							
	0.0/5.0									
96										
98	4.5/5.0	NA	NA		NR		95.0'-100.0': No recovery, sample washed out of casing.			
100										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-14B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-21/MW-14B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686522.6 **Easting:** 649174.3	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 14.53	**Well Screen Intervals (ft bgs):** 33-43
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 43-45
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
100							GARDINERS CLAY			
102	4.5/5.0	NA	3.8		CL		100.0'-103.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, <5% gravel, stiff, olive gray, no odor, 4 inch rock core at 102.5 ft bgs. 103.0'-105.0': SAA, interbedded fine grained sand, less stiff. 105.0'-108.0': SAA, stiff, ~35% fine grained sand.			
104		NA	2.6							
106	5.0/5/0	NA	2.4							
108		NA	1.8				108.0'-110.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~20% interbedded fine grained sand and silt, very stiff, olive gray.			
110										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-14B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Definitions:
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8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	5.0/5.0		21.1			FILL	0.0'-2.0': SAND (FILL): coarse to medium grained sand, ~10% gravel, ~10% plastic and wood debris, light brown and stained, slight petroleum-like odor.	SB-22(0-5)091911
4			46.3				2.0'-3.0': SANDY SILT (FILL): ~50% wood, brick, glass, plastic debris, sandy silt, <5% ash, stained.	
			62.5				3.0'-4.0': SANDY SILT (FILL) ~50% glass, brick, plastic debris, sandy silt, ~20% gravel, brown, ~50% stained, slight fuel oil-like odor.	
6	3.5/5.0		3.6				4.0'-5.0': SANDY SILT (FILL): ~60% sandy and silt, ~20% gravel, ~20% brick debris, slightly stained.	
8			5.5				5.0'-10.0': GRAVELY SILTY (FILL): gravely silt, ~30% wood and wire debris, piece of rubber debris, <5% sand, ~15% silt, wet, brown, no odor.	
10								
12	1.0/5.0		347.9				10.0'-15.0': GRAVEL (FILL): gravel, ~30% slag, ~15% coarse to medium grained sand, <5% silt, wet, dark gray-black, naphthalene-like odor.	
14								
16	1.0/5.0		200.9				15.0'-20.0': COAL SLAG, GRAVEL (FILL): coal slag with gravel, ~15% coarse to fine grained sand, wet, slight sheen, naphthalene-like odor.	
18								
20								

Remarks: Boring Terminated (ft): 110.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20						FILL	20.0'-21.0': SAA.	
22	5.0/5.0		238.9			OH-PT	21.0'-25.0': ORGANIC CLAY/FIBROUS AND FRIABLE PEAT (OH/PT): organic clay, ~15% peat, <5% shell deposits, soft-slightly stiff, wet, dark gray, organic odor.	
24			74.5					
26			33.3			PT	25.0'-25.5': FIBROUS AND FRIABLE PEAT (PT): peat, ~15% coarse grained sand, wet, reddish brown.	
28	5.0/5.0		115.5			ML	25.5'-28.5': SANDY SILT (ML): silt, fine grained sand, wet, gray, naphthalene-like odor.	
30			90.3			CL	28.5'-30.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded fine grained sand, wet, gray, naphthalene-like odor.	
32	5.0/5.0		71.3			SM	30.0'-30.5': SAA. 30.5'-35.0': SILTY SAND (SM): fine grained sand, ~30% silt, one piece of slag at 33 ft bgs, wet, light gray, naphthalene-like odor.	
34			121.7					
36	5.0/5.0		48.2				35.0'-37.0': SILTY SAND (SM): fine grained sand, ~30% silt, wet, gray, naphthalene-like odor.	
38			243.9			CL	37.0'-40.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded silt, ~15% interbedded fine grained sand, wet, dark gray, some naphthalene-like odor.	
40								

Remarks: Boring Terminated (ft): 110.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	5.0/5.0		4.3			CL	40.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~30% interbedded silt, stiff, wet, olive grey.	
44			3.4					
46	5.0/5.0		4.2				45.0'-50.0': SAA.	
48			4					
50								
52	4.5/5.0		5.1				50.0'-55.0': SAA, 2.5-inch long flat rock at 52 ft bgs.	
54			5					
56	5.0/5.0		3.4				55.0'-60.0': SAA.	
58			2.6					
60								

Remarks: Boring Terminated (ft): 110.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	5.0/5.0		1.2				60.0'-65.0': SAA, ~15% interbedded silt, <5% interbedded fine grained sand.	
64			4.1					
66	3.0/5.0		2.6				65.0'-70.0': SAA, no interbedded fine grained sand.	
68						CL		
70								
72	5.0/5.0		3.1				70.0'-75.0': SAA.	
74			14.5					
76			31				75.0'-77.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded fine grained sand, wet, olive gray.	
78	5.0/5.0					SM	77.0'-78.0': SILTY SAND (SM): fine grained sand, ~30% gravel, ~15% silt, wet, olive gray, dark gray, and light brown, no odor.	
80			28.8			SP	78.0'-80.0': POORLY GRADED SAND (SP): fine grained sand, ~15 silt, wet, olive gray, no odor.	

Remarks: Boring Terminated (ft): 110.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	5.0/5.0		24.1			SP	80.0'-83.0': POORLY GRADED SAND (SP): fine grained sand, <5% silt, <5% gravel, moist, light gray, slight naphthalene-like odor.	
84			631.2				83.0'-84.0': POORLY GRADED SAND (SP): fine grained sand, ~15% sub-rounded gravel, 1 inch lense of NAPL saturated sand at 84.0 ft bgs, dark gray, some black staining.	
			441.5				84.0'-85.0': SILTY SAND (SM) silt and fine grained sand, moist, light gray/brown, slight naphthalene-like odor.	SB-22 (84-85)
86	5.0/5.0		2733			SM	85.0'-86.0': SAA, trace NAPL saturation.	
88			4983				86.0'-89.5': SILTY SAND (SM): medium to fine grained sand and silt, <5% gravel, wet, NAPL saturated (NAPL observed).	
90								
92	5.0/5.0		2690			CL	89.5'-90.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with interbedded fine grained sand, wet, dark gray, fine grained sand lenses are NAPL saturation. 90.0'-92.5': SAA, heavy NAPL saturation, NAPL observed, wet.	
94			1061				92.5'-94.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~15% silt, dense, wet, dark gray, slight naphthalene-like odor.	
			3.7				94.0'-95.0': LIGNITE (LIG): lignite, coal-like shaped breaks up to silt, black, no odor.	
96	0.0/5.0		NA			NR	95.0'-100.0': No recovery.	
98								
100								

Remarks: Boring Terminated (ft): 110.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-22

Client: National Grid	**Location:** 254 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686575.7 **Easting:** 649323.3	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Longyear
Start Date: 9/20/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 9/21/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
100								
102	5.0/5.0		342.5			CL	100.0'-105.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~15% interbedded silt, soft, gray.	
104			37.8					
106	5.0/5.0		68.3				105.0'-110.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, very stiff, dark gray.	
108			3.2					SB-22 (107.5-110)
110								

Remarks: Boring Terminated (ft): 110.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-23 / MW-09C
Sheet 1 of 5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.1 **Easting:** 648879.6	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Boart Longyear
Start Date: 9/26/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	5.0/5.0	0				0.0'-0.8': CONCRETE.	Flush Mount Cover →	
						0.8		
2						0.8'-5.0': SAND, GRAVEL (FILL): medium to fine grained sand, 10% gravel, no odors.		
		3.4						
4								
						5.0		
	3.0/5.0	1.2				5.0'-7..0': SAA, some spots of solid tar, slight tar-like odor.		
6								
						7.0		
		93.6				7.0'-10.0': ORGANIC MATTER (FILL): organic matter, mulch-like consistency, soft, slight organic-like odors.		
8								
				FILL				
10								
						10.0		
	5.0/5.0	0				10.0'-13.0': SAND, GRAVEL (FILL): medium to course grained sand and gravel, dark grey to dark brown, 5% glass debris, no odors.		
12								
						13.0		
		0.2				13.0'-14.0': SILT, SAND (FILL): silt with fine grained sand, brown, slight tar-like odor.		
14						14.0		
		0.4				14.0'-15.0': SILT, GRAVEL (FILL): silty gravel with wood and glass debris, tar stained, some tar-like odors.		
						15.0	2" Diam. Sch. 40 PVC Riser →	
	5.0/5.0	0.4				15.0'-19.0': SAA.		
16								
18								
						19.0		
				PT		19.0'-20.0': FIBROUS AND FRIABLE PEAT (PT): peat.		
20						20.0		

Remarks:

Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-23 / MW-09C

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.1 **Easting:** 648879.6	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Boart Longyear
Start Date: 9/26/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
20	5.0/5.0	8.6		PT		19.0'-20.0': FIBROUS AND FRIABLE PEAT (PT): peat. *(continued)* 20.0'-23.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat, dark brown, organic-like odors.		
22								
		0.6		OH		23.0'-24.0': ORGANIC CLAY (OH): clay with interbedded sand and silt, grey, slight organic-like odor.		
24		1		ML		24.0'-25.0': SANDY SILT (ML): silty sand, 10% gravel, light brown, no odors.		
	4.0/5.0	0				25.0'-30.0': SAA, 20% gravel, no odors.		
26								
28								
30								
	4.0/5.0	1.9				30.0'-32.5': SAA, no odors.		
32								
		1.3		SM		32.5'-35.0': SILTY SAND (SM): medium to course grained sand, 20% gravel, 15-25% silt, brown, no odors.	Bentonite Grout →	
34								
	1.0/5.0	3				35.0'-40.0': SAA, dark brown.		
36								
38								
40						40.0		

Remarks:

Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-23 / MW-09C

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.1 **Easting:** 648879.6	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Boart Longyear
Start Date: 9/26/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
40	4.0/5.0	3.8		SM		32.5'-35.0': SILTY SAND (SM): medium to course grained sand, 20% gravel, 15-25% silt, brown, no odors. *(continued)* 40.0'-45.0': SAA, 4-inch clay lense at 43.5 ft bgs, cobble in tip, light brown, slight swamp-like odor.		
42		2.1						
44						45.0		
46	2.5/5.0	4.7		SW		45.0'-50.0': WELL GRADED SAND (SW): medium to coarse grained sand with gravel, 15-25% silt, light brown, no odor.		
48								
50						50.0		
52	2.0/5.0	0.2				50.0'-55.0': SAA, two to three pieces of cobble.		
54						55.0		
56	0.0/5.0	NA		NR		55.0'-60.0': NO RECOVERY, possibly due to running sands.		
58								
60						60.0		

Remarks:

Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-23 / MW-09C
Sheet 4 of 5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.1 **Easting:** 648879.6	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Boart Longyear
Start Date: 9/26/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
60	0.0/5.0	NA		NR		60.0'-65.0': NO RECOVERY, possibly due to running sands.		
62								
64								
						65.0		
	5.0/5.0	3		SW		65.0'-66.0': WELL GRADED SAND (SW): silty sand, suspected fluff from above.		
66						66.0		
		2.4				66.0'-70.0': WELL GRADED SAND (SW): fine to coarse grained sand, 20% gravel, 10% silt, less than 1-inch lense of silt/clay at 67 ft bgs.	Bentonite	
68								
							#0 SAND	
70						70.0		
	5.0/5.0	2.4				70.0'-75.0': SAA.		
72								
		0.9						
74								
						75.0		
	5.0/5.0	1.6				75.0'-80.0': WELL GRADED SAND (SW): well graded sand, 30% silt, light brown and reddish-brown, no odors.	2" Diam. 0.010 PVC Well Screen	
76								
78		1.4						
80						80.0		

Remarks:

Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-23 / MW-09C
Sheet 5 of 5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.1 **Easting:** 648879.6	**Logged By:** Luis Ferreira
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:** Boart Longyear
Start Date: 9/26/2011	**Drilling Method:** Sonic	**Water Level (ft):** 7.5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
80								
	1.0/5.0	0.4		SW		65.0'-66.0': WELL GRADED SAND (SW): silty sand, suspected fluff from above. *(continued)* 80.0'-85.0': SAA.	2" Diam. PVC Sump	
82								
84								
	5.0/5.0	0.3				85.0'-89.0': SAA.		
86								
88								
		0		SM		89.0'-90.0': SILTY SAND (SM): fine grained sand, some silt, brown and grey, wet, no odors.		
90						90.0		
	5.0/5.0	0				90.0'-95.0': CLAY AND CLAY OF LOW PLASTICITY (CL): clay, 20% interbedded silt, very stiff, dry, no odors.		
92								
94								
						95.0		
	5.0/5.0	0		CL		95.0'-100.0': SAA, with 8-inches of clay with interbedded silt and fine grained sand at 97 ft bgs, wet.		
96								
98								
100						100.0		

Remarks:

Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-24 / MW-10C
Sheet 1 of 6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	5.0/5.0	NA		FILL		0.0'-0.25': ASPHALT		
				Concrete		0.25'-1.0': CONCRETE	Flush Mount Cover	
		0.3				1.0'-2.5': FILL: fine grained sand, ~30% silt, brick pieces, glass pieces, slag pieces, dry, dark brown, no odor.		
2								
		0.8				2.5'-5.0': FILL: silt, ~30% fine grained sand, gravel and brick debris, moist, light brown, no odor.		
4								
	1.6/5.0	0.7				5.0'-9.0': SAA.		
6								
8								
				FILL		9.0'-10.0': FILL: fine grained sand, ~20% silt, wet, black, 6 inch thick brick layer at 10 ft bgs, no odor.		
10								
	1.0/5.0	0.9				10.0'-15.0': FILL: silty sand, ~10% gravel, wet, light brown, no odor.		
12								
14								
	4.5/5.0	0.6				15.0'-16.0': SAA.	2" Diam. Sch. 40 PVC Riser	
16								
						16.0'-16.5': SAA, brick pieces, black fine grained sand, wet, no odor.		
						16.5'-20.0': PEAT (PT): peat, fibrous, friable, wet, dark brown, organic odor.		
18		0.4						
20						20.0		

Remarks:

Boring Terminated (ft): 110.0

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AECOM Boring and Well Construction Log

BORING #: SB-24 / MW-10C

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
20	4.0/5.0	48.7			20.3	20.0'-20.3': SAA. 20.3'-25.0': SANDY SILT (ML): silt, ~10% clay, ~10% fine grained sand, <5% rounded gravel, wet, gray, burnt-like odor, crushed rock from 22-22.5 ft bgs, boulder of gneiss from 23.0-25.0 ft bgs.		
22		7.5						
24					25.0			
26	2.0/5.0	3.9				25.0'-30.0': SILTY SAND (SM): fine grained sand, ~30% silt, <5% gravel, wet, dark gray, burnt-like odor.		
28		3.3						
30					30.0			
	5.0/5.0	0.8				30.0'-31.5': SAA.		
32		0.7			31.5	31.5'-34.5': SANDY SILT (ML): silt, ~30% fine grained sand, wet, light brown, no odor.		
34					34.5		Bentonite Grout →	
		1			35.0	34.5'-35.0': CLAY (CL): clay, ~20% fine grained sand, <5% gravel, firm, wet, gray.		
36	1.4/5.0	2.1				35.0'-37.5': WELL GRADED SAND (SW): gravelly sand, gravel up to 4 inches in diameter, wet, gray, no odor.		
38		0.9			37.5	37.5'-40.0': SANDY SILT (ML): silt, ~30% fine grained sand, ~10% rounded gravel up to 2 inches in diameter, wet, tan.		
40					40.0			

Remarks:

Boring Terminated (ft): 110.0

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AECOM Boring and Well Construction Log

BORING #: SB-24 / MW-10C

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
40								
	1.3/5.0	4.4				40.0'-45.0': SILTY SAND (SM): fine grained sand, ~25% silt, ~5% rounded gravel, wet, light brown, no odor.		
42								
44								
						45.0		
	5.0/5.0	10.1				45.0'-48.0': SANDY SILT (ML): silt, ~20% fine grained sand, ~20% angular to subangular gravel up to 4 inches in diameter, wet, reddish brown, no odor.		
46								
48								
						48.0		
		6				48.0'-50.0': WELL GRADED SAND (SW): medium to fine grained sand, ~40% rounded gravel, ~10% silt, wet, rust colored, no odor.		
50								
						50.0		
	3.0/5.0	4.1				50.0'-55.0': WELL GRADED SAND (SW): medium to fine grained sand, ~30% subrounded gravel up to 4 inches in diameter, ~20% silt, wet, reddish brown, no odor.		
52								
		2.6						
54								
						55.0		
	1.8/5.0	3.9				55.0'-60.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~35% subrounded gravel, wet, reddish brown, no odor.		
56								
58								
60						60.0		

Remarks:

Boring Terminated (ft): 110.0

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AECOM Boring and Well Construction Log

BORING #: SB-24 / MW-10C
Sheet 4 of 6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
60								
	4.0/5.0	1.7				60.0'-65.0': WELL GRADED SAND (SW): coarse to fine grained sand, <5% gravel, wet, light brown, no odor.		
62								
64								
	4.0/10.0	1.3				65.0'-66.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~40% multicolored angular to rounded gravel, wet, light brown sand, no odor.		
66						66.0		
		1.6				66.0'-70.0': WELL GRADED SAND (SW): coarse to fine grained sand, <5% gravel, wet, light brown, no odor.	Bentonite	
68								
							#0 SAND	
70						70.0		
	0.0/5.0	NA				70.0'-75.0': No recovery, driller says he is getting a lot of heave, possible flowing sands.		
72				NR				
74								
						75.0	2" Diam. 0.010 PVC Well Screen	
	0.0/5.0	NA				75.0'-80.0': No recovery, driller says he is getting a lot of heave, possible flowing sands.		
76								
78				NR				
80						80.0		

Remarks:

Boring Terminated (ft): 110.0

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AECOM Boring and Well Construction Log

BORING #: SB-24 / MW-10C
Sheet 5 of 6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
80	0.0/5.0	NA		NR		80.0'-85.0': No recovery, driller says he is getting a lot of heave, possible flowing sands.	2" Diam. PVC Sump	
82								
84								
						85.0		
86	2.5/5.0	NA		NR		85.0'-90.0': No recovery, driller says he is getting a lot of heave, possible flowing sands.		
88								
90						90.0		
92	4.5/5.0	0.8				90.0'-95.0': WELL GRADED SAND (SW): coarse to fine grained sand, <5% rounded gravel, wet, light brown, no odor.		
		1.1						
94								
						95.0		
96	4.5/5.0	5.8				95.0'-96.0': SAA.		
						96.0		
		11.7				96.0'-97.0': SILTY SAND (SM): fine grained sand and silt, <5% rounded gravel, wet, light brown, no odor.		
						97.0		
		6.8				97.0'-97.5': POORLY GRADED SAND (SP): medium to fine grained sand, wet, reddish brown, no odor.		
98		19.2				97.5'-98.5': SILTY SAND (SM): fine grained sand and silt, wet, light brown, no odor.		
						98.5		
		415.3				98.5'-99.0': POORLY GRADED SAND (SP): medium to fine grained sand, <5% rounded gravel, wet, tar-like odor, tar sheen.		
		3763				99.0		
100						99.0'-100.0': SILTY SAND (SM): fine grained sand and silt, wet, reddish brown, slight tar-like odor.		
						100.0		

Remarks:

Boring Terminated (ft): 110.0

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Boring and Well Construction Log

BORING #: SB-24 / MW-10C

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686597.6 **Easting:** 648810.2	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 10/24/2011	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 10/25/2011	**Borehole Diameter:**	**Total Depth (ft):** 110.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
100	4.0/5.0	384.3				100.0'-104.0': SAA.		
102		143.8						
104		4.5				104.0'-105.0': SANDY SILT (ML): ~70% silt, ~30% fine grained sand, wet, gray, no odor.		
		1.3				105.0'-108.0': SAA.		
106								
108		1.1				108.0'-110.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, ~20% silt, firm, wet, gray, no odors.		
110								

Remarks:

Boring Terminated (ft): 110.0

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Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
0									
2	NA	0.2		FILL		0.0'-1': CONCRETE.			
4						1.0 1'-4': GRAVEL, SAND, SILT (FILL): fine to coarse grained gravel, fine to coarse grained sand, <5% silt, no odor, dry.			
6	2.0/5.0	0.2				4.0 4'-5' SANDY SILTY (FILL): silt, fine to coarse grained sand, 20% fine to coarse grained gravel, very dark grey, no odor, wet.			
8						5.0 5'-10': SAA			
10									
12	4.4/5.0	0.4				10.0 10.0'-15.0': SAA, ~30% brick debris, glass frag, wood debris, organic-like odor			
14									
16	4.0/5.0	0.3				15.0 15'-20': SAA, 10% fine to coarse grained gravel, black.			
18									
20						20.0			

Remarks: Boring Terminated (ft): 110.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

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Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
20									
22	5.0/5.0	30.8		PT		20.0'-25': PEAT (PT): peat, metal strap encountered at 24', dark brown, strong swamp-like odor, wet.			
24									
26						25.0 25'-30' SAA, wooden board encountered at 26 ft bgs, grey fine sand found in tip of sampler.			
28	5.0/5.0	30							
30						30.0			
32	2.5/5.0	1.7		SP		30.0'-31.5':POORLY GRADED SAND (SP:) silty fine grained sand , grey, organic odor. 31.5			
34				ML SP		31.5'-32.0': SANDY SILTY (ML): silt, 10% fine grained sand, organic odor, grey, wet. 32.0 32.0'35.0': POORLY GRADED SAND (SP): silty fine grained sand, grey, organic odor.			
36		0.4				35.0 35.0'-38.0': SAA, grading to sandy silt, brownish grey, organic odor.			
38	5.0/5.0					38.0			
40		0.1		ML		38'-40': SANDY SILTY (ML): sandy silt, grey, no odor. 40.0			

Remarks: Boring Terminated (ft): 110.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

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Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40									
		0.2		SP		40'-41.5': POORLY GRADED SAND (SP): silty fine grained sand, grey, no odor.			
41.5									
42				ML		41.5'-43': SANDY SILTY (ML): sandy silt, grey, no odor.			
43.0	5.0/5.0								
		0.4		CL		43.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, no odor.			
44									
45.0						45.0'-50': SAA, 5% fine grained gravel, 10% fine grained microbeds of sand.			
46									
48	5.0/5.0	0							
50									
50.0						50.0'-55.0':SAA, less silt, no sand beds.			
52									
54	5.0/5.0	0							
55.0						55.0'-60.0': SAA, 5% small reddish layers within clay.			
56									
58	5.0/5.0	0							
60									
60.0									

Remarks: Boring Terminated (ft): 110.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						43.0'-45.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, no odor. *(continued)*			
62	4.4/5.0	0				60'-65': SAA, no gravel, no red beds.			
64									
						65.0			
66						65-70': SAA, 5% fine grained gravel, 1 inch reddish layer of dense clay at 66.5 ft bgs.			
68	5.0/5.0	39.3							
70						70.0			
72	5.0/5.0	0				70'-75': SAA.			
74									
						75.0			
76						75'-79': SAA.			
78	5.0/5.0	0							
						79.0			
80				ML		79'-80' SANDY SILTY (ML) clayey silt, grey, no odor.			
						80.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80				SM		80.0'-81.0': SAA.			
						81.0			
82				CL		81.0'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, wet.			
	5.0/5.0	0							
84									
						85.0			
86						85.0'-90.0': SAA, sand in tip of sampler.			
	3.0/5.0	0							
88									
90						90.0			
				SW		90'-93': WELL GRADED SAND (SW): fine to coarse grained sand, ,10% silt, 10% silt fine to coarse grained gravel			
		0.2							
92									92-93
	5.0/5.0	13.3							
						93.0			
				SP		93'-95' POORLY GRADED SAND (SP): fine grained silty sand, 10% fine to coarse grained gravel and cobbles, no odor			
94		0.3							
						95.0			
				SP		95.0'-100': SAA, very little recovery, no odor.			
96									
98	5.0/5.0	0							
100						100.0			

Remarks: Boring Terminated (ft): 110.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-25/MW-11B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 110.0
Project #: 60273164	**Northing:** 686593.1 **Easting:** 649555.8	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/22/2011	**Ground Elevation (ft NAVD 88):** 11.13	**Well Screen Intervals (ft bgs):** 30-40 and 90-100
Start Date: 7/22/2011 **Finish Date:** 7/23/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 40-42 and 100-102.5
Logged By: Steve wright	**Drilling Method:** Hollow Stem Auger/Sonic	**Water Level (ft):** 3

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100									
102	5.0/5.0	0		ML		100.0'-104.5': SANDY SILTY (ML): sandy silt, 10% fine to coarse grained gravel and cobbles, grey, no odor, wet.			103-105
104						104.5			
				CL		105.0 104.5'-105': CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay with peat material, black, no odor.			
				LIG		105.5 105-105.5: LIGNITE (LIG): lignite.			
106				CL		105.5'-110': CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay, 10% silt, grey, no odor			
108	5.0/5.0	0							
110						110.0			

End of boring at 110.0 ft. bgs.

Remarks: Boring Terminated (ft): 110.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
0									
2	NA	0.2		FILL		0.3 0.0'-0.3': ASPHALT. 0.5 0.3'-0.5': GRAVEL. 0.5'-5': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, 20% silt, 20% fine to coarse grained gravel, cobbles, brick fragments, dark brown, no odor, dry.			
4									
6						5.0 5'-10': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, 20% silt, 20% fine to coarse grained gravel, brick fragments, cobbles, brown and grey, no odor, dry.			
8	3.0/5.0	0.2							
10						10.0 10.0'-15.0': SAA, grey, wet.			
12									
14	1.0/5.0	1.1							
16						15.0 15'-18' SAA, cobble in tip of sampler.			
18	4.0/5.0	0.3				18.0			
20				CL		18'-20' CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay, 10% peat material, dark grey, no odor, wet. 20.0			

Remarks: Boring Terminated (ft): 105.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
20						18'-20' CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay, 10% peat material, dark grey, no odor, wet. *(continued)*			
22	5.0/5.0	0.3				20.0'-25': CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay, shell fragments from 22'-24', 5% plants remains, very dark grey, wet.			
24									
						25.0			
26		1				25'-26.5' SAA, no shell or plant fragments.			
						26.5			
		7.7		PT		26.5'-28': FIBROUS AND FRIABLE PEAT (PT): peat, dark brown, wet.			
28	5.0/5.0					28.0			
				SP		28-29: POORLY GRADED SAND (SP): silty fine grained sand, dark grey, wet, organic odor.			
		4.6				29.0			
30				ML		29'-30': SANDY SILTY (ML): silt, <5% fine grained sand, organic odor, wet.			
						30.0			
						30'-35': SANDY SILTY (ML): silt, <5% fine grained sand, dark grey, no odor, wet.			
32									
	5.0/5.0	0.2							
34									
						35.0			
						35'-40': SAA, <5% fine grained gravel, no odor.			
36									
38	5.0/5.0	0							
40						40.0			

Remarks: Boring Terminated (ft): 105.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40				CL		40'-45': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, no odor, wet.			
42	5.0/5.0	0							
44									
						45.0 45'-50: SAA, no odor			
46									
48	4.0/5.0	0							
50						50.0 50.0'-55.0':SAA., bed of thin fine grained sand at 54.5 ft bgs.			
52	5.0/5.0	0							
54									
						55.0 55.0'-60.0': SAA.			
56									
58	3.5/5.0	0							
60						60.0			

Remarks: Boring Terminated (ft): 105.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						40'-45': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, no odor, wet. *(continued)* 60'-65': SAA.			
62	5.0/5.0	0							
64									
65.0						65-70': SAA.			
66									
68	5.0/5.0	0							
70									
70.0						70'-75': SAA.			
72									
74	5.0/5.0	0							
75.0									
76				SW		75'-80': WELL GRADED SAND (SW): fine to coarse grained sand, 10% silt, 10% fine to coarse grained gravel, brownish grey, slight naphthalene-like odor			75-80
78	2.0/5.0	12.4							
80						80.0			

Remarks: Boring Terminated (ft): 105.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80						75'-80': WELL GRADED SAND (SW): fine to coarse grained sand, 10% silt, 10% fine to coarse grained gravel, brownish grey, slight naphthalene-like odor *(continued)*			
82	3.0/5.0	8.4				80'-85': SAA, slight naphthalene-like odor.			
84									
86						85.0 85'-86.5': SAA, slight naphthalene-like odor. 86.5			
88	5.0/5.0	5.1		ML		86.5'-90': SANDY SILTY (ML): silt, 10% fine to coarse grained sand, 10% fine to coarse grained gravel, brown to grey, no odor, wet.			88-90
90						90.0 90'-94.5': SAA, lignite at 94'.			
92	5.0/5.0	0		ML					
94						94.5			
96						95.0 94.5'-95': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, <10% silt, dark grey, wet. 95'-100': SAA.			
98	5.0/5.0	0							
100						100.0			

Remarks: Boring Terminated (ft): 105.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-26/MW-12B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686726.2 **Easting:** 649337.2	**Boring Diameter (in):** 8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/25/2012	**Ground Elevation (ft NAVD 88):** 10.94	**Well Screen Intervals (ft bgs):** 28-38 and 76-86
Start Date: 7/25/2012 **Finish Date:** 7/26/2012	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 38-40.5 and 86-88.5
Logged By: Luis Ferreira	**Drilling Method:** Sonic/Hollow Stem Auger	**Water Level (ft):** 8

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100									
						90'-94.5': SAA, lignite at 94'. *(continued)* 100.0'-105.0': SAA, cobble at 102.5 ft bgs.			
102	4.5/5.0	0							
104						104.5 105.0 104.5'-105': CLAY and SILTY CLAY of LOW PLASTICITY (CL): clay with peat material, black, no odor.			
						End of boring at 105.0 ft. bgs.			

Remarks: Boring Terminated (ft): 105.0

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Notes:

AECOM Boring and Well Construction Log

BORING #: SB-27

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686810.8 **Easting:** 648985.3	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.0	**Drilling Company:** Boart Longyear
Start Date: 1/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/11/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	8.0/8.0	0			FILL	0.0'-2.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~10% silt, ~10% fine to coarse gravel, cobbles, brick fragments, concrete fragments, dark grey, moist, no odor.	
4		1.2				2.0'-8.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~20% silt, ~10% fine to coarse gravel, cobbles, orange-brown, moist from 2 to 6 ft bgs, wet 6 to 8 ft bgs, no odor.	
6							
8		1.6					
10	1.5/2.0	0.2				8.0'-10.0': SILT, SAND, GRAVEL (FILL): silt, ~20% fine to coarse grained sand, ~10% fine to coarse gravel, cobbles, brick, greyish-brown, moist, no odor.	
12	5.0/5.0	3.3				10.0'-15.0': SAA, brick/glass fragments from 14 to 15 ft bgs, layer of silt from 13.5 to 14 ft bgs, wet, no odor.	
14							
16	4.6/5.0	2.6				15.0'-17.2': SAND (FILL): fine to coarse grained sand, greyish-brown, wet, no odor.	
18		124				17.2'-18.8': WOOD, COAL (FILL): wood and coal fragments, black, saturated with thick dark NAPL from 17.2 to 17.6 ft bgs wet, strong naphthalene-like odor, coated with NAPL from 18.3 to 18.8 ft bgs.	
20						18.8'-20.0': SILT, SAND, GRAVEL (FILL): silty fine to coarse grained sand, ~20% fine to coarse gravel, ~5% silt, dark grey, no odor.	

Remarks: Boring Terminated (ft): 100.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-27

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686810.8 **Easting:** 648985.3	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.0	**Drilling Company:** Boart Longyear
Start Date: 1/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/11/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.0/5.0	12.2			FILL	20.0'-21.0': SILT, SAND (FILL): silty fine grained sand, black, small pockets of dark NAPL. 21.0'-24.5': SAND, GRAVEL (FILL): fine to coarse grained sand, ~5% silt, ~5% fine to coarse gravel, coal fragments from 23.5 to 24.5 ft bgs, black, wet, no odor.	
24					OH	24.5'-25.0': ORGANIC CLAY (OH): organic clay and peat, dark grey.	
26	5.0/5.0	23.6			PT	25.0'-27.3': FIBROUS AND FRIABLE PEAT: peat, dark brown, wet, strong organic odor.	
28		7.9			SM-ML	27.3'-30.0': SILTY SAND (SM/ML): silty fine grained sand, grading to sandy silt, grey, wet, no odor.	
30							
32	4.7/5.0	86.7			SM	30.0'-35.0': SILTY SAND (SM): fine to medium grained sand, grey, stained with NAPL from 33.6-33.9 ft bgs, saturated with NAPL from 34.3 to 35 ft bgs.	
34		381				35.0'-36.0': SAA, saturated with NAPL.	
36							
38	5.0/5.0	3.3			CL	36.0'-40.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, grey, wet, no odor, fine to medium sand at bottom of run.	
40							

Remarks: Boring Terminated (ft): 100.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-27

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686810.8 **Easting:** 648985.3	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.0	**Drilling Company:** Boart Longyear
Start Date: 1/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/11/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	4.8/5.0	3.8			ML-SP	40.0'-42.0': SANDY SILT (ML): silt and silty fine sand, ~10-20% clay, grey, wet, no odor.	
		42.5			SP	42.0'-43.0': POORLY GRADED SAND (SP): silty fine grained sand, grey, wet, moderate naphthalene-like odor.	
44		NA			ML-CL	43.0'-45.0': SILTY CLAY (CL): interbedded silt and clay, microbeds of fine grained sand, grey, wet, no odor.	
46	5.0/5.0	3.4				45.0'-49.0': SAA, wet, no odor.	
48							
50		11.6			SW	49.0'-50.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~10% fine to coarse gravel, ~10% silt, cobble, wet, no odor.	
52	4.0/5.0	9.1				50.0'-55.0': SAA, wet, no odor.	
54							
56	3.0/5.0	4.1				55.0'-60.0': SAA, grading to sandy silt with ~15% fine to coarse gravel, no cobbles, wet, no odor.	
58							
60							

Remarks: Boring Terminated (ft): 100.0

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Fax: (860) 263-5777

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-27

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686810.8 **Easting:** 648985.3	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.0	**Drilling Company:** Boart Longyear
Start Date: 1/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/11/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62	2.5/5.0	2.7			SW	60.0'-62.5': WELL GRADED SAND (SW): silty fine to coarse grained sand, grey, wet, no odor.	
64		2.7			ML	62.5'-65.0': SANDY SILT (ML): sandy silt, ~10% fine to coarse gravel, grey, wet, no odor.	
66	2.5/5.0	1.3				65.0'-70.0': SAA, wet, no odor.	
68							
70							
72	3.5/5.0	0				70.0'-73.0': SAA, wet, no odor.	
74		1.1			SW	73'-74.5': WELL GRADED SAND (SW): fine to coarse grained sand, ~5% fine to coarse gravel, <5% silt, greyish-brown, wet, no odor.	
76					CL	74.5'-75': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dark grey, wet, no odor. 75'-80': SAA, wet, no odor.	
78	2.0/5.0	0					
80							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-27

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686810.8 **Easting:** 648985.3	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.0	**Drilling Company:** Boart Longyear
Start Date: 1/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/11/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	4.5/5.0	2000+			SM	80.0'-85.0': SILTY SAND (SM): silty fine to medium grained sand, dark grey, wet, saturated with NAPL.	SB-27 (80-85)
84							
86		2000+				85.0'-86.0': SAA, saturated with NAPL.	
88	5.0/5.0	164				86.0'-88.5': SANDY SILT (ML): clayey silt, greyish-brown, small stringers of NAPL visible, moderate naphthalene-like odor.	
90		22.1			ML	88.5'-90.0': SANDY SILT (ML): clayey silt, grey, wet, no odor.	
92	5.0/5.0	3.4				90.0'-95.0': SAA, wet, no odor.	SB-27 (90-92)
94							
96						95.0'-95.5': SAA.	
					LIG	95.5'-96.0': LIGNITE (LIG): lignite, black.	
98	5.0/5.0	1			CL	96.0'-100.0': CLAY (CL): clay, dense, <5% fine gravel, very dark grey, wet, no odor.	
100							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-28

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686851.3 **Easting:** 649137.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Boart Longyear
Start Date: 12/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	8.0/8.0	0.3			FILL	0.0'-2.0': SAND, SILT, GRAVEL (FILL): fine to coarse sand, ~20% silt, ~20% fine to coarse gravel, cobbles, brick fragments, dark grey, moist, no odor.	
4		1.3				2.0'-8.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~20% silt, ~10% fine gravel, cobbles, brown, moist to 5' wet from 5-8', no odor.	
6							
8							
10	2.0/2.0	1				8.0'-10.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~20% silt, ~20% fine to coarse gravel, cobbles, brick fragments, porcelain fragments, greyish-brown, wet, no odor.	
12	5.0/5.0	3.8				10.0'-12.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~20% silt, ~20% fine to coarse gravel, cobbles, brown, wet, no odor.	
14		25.8 20.4				12.0'-15.0': SILT, SAND, GRAVEL (FILL): silty fine grained sand, ~20% fine to coarse gravel, cobble, brick fragments, layer of black wood fragments from 12.7 to 12.9 ft bgs, black to dark grey, coated with NAPL.	
16	4.0/5.0	31.8				15.0'-16.0': SILT, SAND (FILL): silty fine grained sand, very dark grey, wet, no odor. 16.0-20.0': SAND, GRAVEL, COAL (FILL): fine to coarse grained sand, ~20% fine to coarse gravel, ~5% silt, coal fragments, clinker, ash/cinders, black, wet, slight naphthalene-like odor.	
18							
20							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-28

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686851.3 **Easting:** 649137.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Boart Longyear
Start Date: 12/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.0/5.0	18.6			FILL	20.0'-23.0': SAA, wet, slight naphthalene-like odor.	
24		NA			PT	23.0'-25.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat, dark brown, wet, strong organic odor.	
26	5.0/5.0	26.4				25.0'-29.0': SAA, black from 28 to 29 ft bgs, strong organic odor.	
28							
30		NA			SP	29.0'-30.0': POORLY GRADED SAND (SP): silty fine grained sand, grey, wet, no odor.	
32	4.4/5.0	21.7				30.0'-35.0': SAA, <5% fine gravel, wet, no odor.	
34							SB-28 (33-35)
36	5.0/5.0	8.8				35.0'-37.0': SAA, wet, no odor.	
38		2.9			ML	37.0'-40.0': SILT (ML): silt grading to clayey silt at 39 ft bgs, grey, wet, no odor.	
40							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-28

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686851.3 **Easting:** 649137.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Boart Longyear
Start Date: 12/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40					SP	40.0'-41.0': POORLY GRADED SAND (SP): silty fine grained sand, dark grey, wet, no odor.	
42	5.0/5.0	0.4			ML	41.0'-45.0': SILT (ML): clayey silt, <5% coarse grained sand, grey, wet, no odor.	
44							
46	5.0/5.0	0.4			CL	45.0'-50.0' CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silt clay, <5% fine to coarse gravel, grey, wet, no odor.	
48							
50							
52	5.0/5.0	1.1				50.0'-55.0': SAA, wet, no odor.	
54							
56	5.0/5.0	0.4				55.0'-60.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, grey, wet, no odor.	
58							
60							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-28

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686851.3 **Easting:** 649137.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Boart Longyear
Start Date: 12/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62		0.3			CL	60.0'-65.0': SAA, wet, no odor.	
64	3.4/10.0						
66						65.0'-70.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~20% fine to coarse gravel, ~5% silt, grey, wet, no odor.	SB-28 (65-66)
68		3.2					
70							
72					SW	70.0'-80.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~10% fine to coarse gravel, ~5% silt, greyish-brown, wet, no odor.	
74							
76	4.2/10.0	1.7					
78	4.3/5.0						
80							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-28

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686851.3 **Easting:** 649137.1	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.4	**Drilling Company:** Boart Longyear
Start Date: 12/19/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	4.3/5.0	1.1			SW	80.0'-85.0': SAA, ~10% silt, <5% fine gravel, wet, no odor.	
84							
86	5.0/5.0					85.0'-86.0': SAA.	
88		0.4			CL	86.0'-89.5': CLAY (CL): clay, <5% fine gravel, cobbles, dark grey, wet, no odor.	
90	5.0/5.0				LIG	89.5'-90.2': LIGNITE (LIG): lignite, black.	
92		0.4			ML	90.2'-94.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, wet, no odor.	
94						94.0'-95.0': SILT (ML): silt, <5% clay, grey, wet, no odor.	
96	5.0/5.0					95.0'-98.0': SAA, wet, no odor.	
98		0.4					
100					CL	98.0'-100.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, ~10% fine to coarse gravel, cobbles, grey, wet, no odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							FILL	0-5		Flush Mount Cover
2	5.0/5.0	NA	30.8							Bentonite Grout
4		NA	58.2							
6	3.0/5.0	NA	49				5.0'-8.0': SAA.			
8										
10		NA	220		FILL		8.0'-10.0': SAA, no wood debris, wet at 8 ft bgs, some naphthalene-like odors.			
12	5.0/5.0	NA	4.4				0.0'-5.0': SAND, GRAVEL, WOOD DEBRIS (FILL): sand, gravel, and wood debris, dry, black staining, mostly organic-like odors, some petroleum-like odors. 10.0'-15.0': SAA, 20% brick debris, sand and gravel grains coated with NAPL, naphthalene-like and organic-like odors.			
14		NA	5.5							
16	NR/5.0	NA	15.4				15.0'-17.0': SILTY CLAY AND SAND (FILL): silty clay and sand, 20% brick and wood debris, stained, organic-like odor.			
18		NA	77.5				17.0'-18.0': SANDY GRAVEL (FILL): sandy gravel, coal NAPL slag, grains coated with NAPL.			Bentonite Grout
20		NA	159.5				18.0'-20.0': SILT (FILL): silt with low plasticity, intermittent staining, light brown, bottom 6-inches coarse sand with wood and brick debris, brownish-red			

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-15B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
		NA	57.5		SW		SHALLOW SAND 20.0'-21.0': WELL GRADED SAND (SW): sand and gravel with NAPL coating.			Bentonite Grout
22	5.0/5.0	NA	235.6				MEADOW MAT 23.0'-25.0': SAA, no NAPL observed.			
24										
26	5.0/5.0	NA	363.7		PT-OH		25.0'-29.5': SAA, few lenses of silt and sand, brownish-red, some naphthalene-like odors. 21.0'-23.0': FIBROUS AND FRIABLE PEAT(PT)/ORGANIC CLAY (OH): peat and organic clay, NAPL observed, organic-like odors and naphthalene-like odors detected			
28		NA	155							
30		NA	366				INTERMEDIATE SAND			
32	5.0/5.0	NA	399		SM		30.0-33.0': SILTY SAND (SM): fine to medium grained sand, 20% silt, olive grey, traces of NAPL, naphthalene-like odor. 29.5'-30.0': SILTY SAND (SM): medium grained sand, 20% silt, naphthalene-like odor.			
34		NA	906				33.0'-35.0': SAA, more fine to coarse grained sand, lenses of brownish-red sand.			Bentonite
36	5.0/5.0	NA	234		ML		35.0'-38.5': SANDY SILTY (ML): silty clay with sand, slight naphthalene-like odor.			#1 Sand
38										
40		NA	2955				38.5-40.0': SILTY SAND (SM): fine to medium grained sand and silt, some interbedded clay, lenses of sand stained with trace NAPL.			

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-15B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
40										
42	5.0/5.0	NA	2240		SM		40.0'-41.0': SAA. 41.0'-43.0': SILTY SAND (SM): silty sand, NAPL saturated, naphthalene-like odor. 38.5-40.0': SILTY SAND (SM): fine to medium grained sand and silt, some interbedded clay, lenses of sand stained with trace NAPL.			2" Diam. 0.020 PVC Well Screen
44		NA	2061							
		NA	274							
46	5.0/5.0	NA	13.3		SM-CL		45.0'-47.5': SAA, specs of NAPL observed. 43.0'-45.0': SILTY SAND (SM) AND CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty sand interbedded with clay, slightly stiff.			
48		NA	2.2				INTERMEDIATE CLAY			1" Diam. PVC Sump
50	5.0/5.0	NA	15				50.0'-55.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay with some interbedded silt, light grey.			
52										
54		NA	82				47.5'-50.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, stiff, light grey, no odor, no visual impacts.			
56	4.0/5.0	NA	45		CL		55.0'-60.0': SAA, slight naphthalene-like odor.			
58		NA	32							
60										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-15B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

AECOM
250 Apollo Drive
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Fax: 978.905.2101

Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
60										
62	4.0/5.0	NA	44.3				60.0'-63.0': SAA. 47.5'-50.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, stiff, light grey, no odor, no visual impacts.			
64		NA	53.8		ML		LOWER SAND 63.0'-65.0': SANDY SILTY (ML): silty sand, brown, 3-inch lense of NAPL stained and NAPL coated grains followed by stained sand and brown sand.			
66	4.0/5.0	NA	39.3		SM					
68		NA	15.8							
70		NA	44.5				69.0'-70.0': SILTY SAND (SM): silty sand, light brown, trace deposits of stained sand, slight naphthalene-like odor.			
72	5.0/5.0	NA	19.3				70.0'-73.0': SAA. 65.0'-69.0': SILTY SAND (SM): silty sand, olive grey, some naphthalene-like odors.			
74		NA	59.9				73.0'-75.0': SILTY SAND (SM): silty sand with gravel, some cobbles, slight naphthalene-like odor.			
76	5.0/5.0	NA	2254				75.0'-80.0': SAA, more coarse grained sand in bottom 1-foot, slightly saturated, strong naphthalene-like odor, trace NAPL to some NAPL observed.			
78		NA	3588							
80										

Notes:

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10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
80										
		NA	4414				80.0'-81.0': SAA, NAPL saturation and NAPL observed.			
							LOWER CLAY			
82	5.0/5.0	NA	1017							
84		NA	233							
86					CL		85.0'-90.0': SAA.			
	3.0/5.0	NA	87.2				81.0'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dark grey, very stiff.			
88										
90										
							90.0'-91.5': SAA.			
92		NA	7.4							
					SM		91.5'-92.5': SILTY SAND (SM): silty sand, stained, slight naphthalene-like odor.			
	5.0/5.0									
94		NA	1.6							
					SW		95.0'-98.0': SAA, 3-inch lense of stained silty gravel at 96.0 ft bgs, slight naphthalene-like odor, trace sheen.			
96		NA	175.3				92.5'-95.0': WELL GRADED SAND (SW): sandy gravel, some silt, light brown, no odor.			
98	5.0/5.0	NA	1244							
		NA	158.2				GARDINERS CLAY	98-98		
			4.6					98-100		
		NA	4.6		CL		98.0'-100.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dark grey, stiff.			
100										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-15B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-29/MW-15B

Client: National Grid	**Boring Location:** 252 Maspeth Avenue	**Total Boring Depth (ft bgs):** 105.0
Project #: 60273164	**Northing:** 686645.6 **Easting:** 649142.9	**Boring Diameter (in):** 7 7/8
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 9/20/2011	**Ground Elevation (ft NAVD 88):** 12.89	**Well Screen Intervals (ft bgs):** 37-47
Start Date: 9/20/2011 **Finish Date:** 9/21/2011	**Drilling Company:** Boart Longyear	**Well Sump Intervals (ft bgs):** 47-49
Logged By: Luis Ferreira	**Drilling Method:** Sonic	**Water Level (ft):** 5

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
100							GARDINERS CLAY			
102	0.0/5.0	NA	NA		NR		100.0'-105': No Recovery.			
104										

Notes:

1.) The location was pre-cleared to 5 ft bgs by using soft dig hand clearing methods. 2.) Boring converted into groundwater monitoring well MW-15B. Well construction details provided on separate form. 3.) Well surface constructed to grade with flushmount casing set in a concrete pad.

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Definitions:
1.) NA - Not Applicable 9.) WOR - Weight of Rods (drilling)
2.) ft - feet 10.) WHO - Weight of Hammer
3.) bgs - below ground surface 11.) NR - No Recovery
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

AECOM Boring and Well Construction Log

BORING #: SB-30

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686666.6 **Easting:** 648943.6	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 10/29/2011	**Borehole Diameter:**	**Total Depth (ft):** 95.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	5.0/5.0		0.2			FILL	0.0'-1.0': CONCRETE, with rebar. 1.0'-3.0': SAND, GRAVEL (FILL): medium to fine grained sand, <5% gravel, dry, dark brown, no odor.	
4			2.4				3.0'-5.0': SAND, GRAVEL (FILL): medium to fine grained sand, <5% gravel, brick debris and large cobble at 3 ft bgs, dry, slight naphthalene-like odor.	SB-30(3-5)102311
6	0.0/5.0		NA			NR	5.0'-10.0': No recovery.	
8								
10								
12	2.2/5.0		1.8			FILL	10.0'-15.0': SAND, SILT, GRAVEL (FILL): interbedded fine grained sand and silt, ~10% angular gravel, wet, gray to tan, slight naphthalene-like odor, few NAPL coated grains.	
14								
16	0.0/5.0		NA			NR	15.0'-20.0': No recovery, driller changes to flapper bit to get more recovery.	
18								
20								

Remarks: Boring Terminated (ft): 95.0

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Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-30

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686666.6 **Easting:** 648943.6	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 10/29/2011	**Borehole Diameter:**	**Total Depth (ft):** 95.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	2.4/5.0		11.1			FILL	20.0'-23.0': SAND, SILT, GRAVEL (FILL): medium to fine grained sand and silt, <5% rounded gravel, ~5% plant fibers, wet, gray, no odor.	
24			20.1				23.0'-24.0': WOOD DEBRIS (FILL): wood debris.	
			51			SW	24.0'-25.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~5% rounded gravel, wet, gray, no odor.	
26			35.3				25.0'-25.5': SAA.	
							25.5'-26.0': SAA, ~20% silt.	
			1.9			SP SM	26.0'-26.2': POORLY GRADED SAND (SP): fine grained sand, wet, black, slight naphthalene-like odor, NAPL coated. 26.2'-27.0': SILTY SAND (SM): fine grained sand and silt, ~20% sub-angular gravel up to 3 inches in diameter, wet, brown, no odor.	
28	5.0/5.0		27.7			SW	27.0'-29.5': WELL GRADED SAND (SW): medium to fine grained sand, ~10% rounded gravel, wet, gray, no odor.	
30			6.2			SM	29.5'-30.0': SILTY SAND (SM): fine grained sand and silt, ~30% rounded gravel up to 4 inches in diameter, wet, light brown, no odor.	
			2.8				30.0'-35.0': SAA.	
32								
	5.0/5.0							
34			35.2					
36							35.0'-40.0': SILTY SAND (SM): interbedded fine grained sand and silt, <5% rounded gravel, wet, brown, moderate naphthalene-like odor, few small NAPL blebs from 35-35.5 ft bgs.	
	2.5/5.0		193.8					
38								
40								

Remarks: Boring Terminated (ft): 95.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-30

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686666.6 **Easting:** 648943.6	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 10/29/2011	**Borehole Diameter:**	**Total Depth (ft):** 95.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	2.5/5.0		83.3			ML	40.0'-45.0': SANDY SILT (ML): silt, ~15% sub-angular gravel, firm, wet, brown, slight naphthalene-like odor, bottom 4 inches crushed rock and reddish fine grained sand, slight naphthalene-like odor.	
44								
46	1.5/5.0		28.2			SW	45.0'-55.0': WELL GRADED SAND (SW): coarse to fine grained sand, ~25% silt, ~10% rounded gravel, wet, brown, moderate naphthalene-like odor.	
48								
50								
52	1.5/5.0		65.5					
54								
56	0.5/5.0		4.8				55.0'-60.0': SAA, slight naphthalene-like odor.	
58								
60								

Remarks: Boring Terminated (ft): 95.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-30

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686666.6 **Easting:** 648943.6	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 10/29/2011	**Borehole Diameter:**	**Total Depth (ft):** 95.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	3.0/5.0		7.6				60.0'-65.0': SAA, 4-inch cobble in flapper bit.	
64			6					
66	3.0/5.0		3.2				65.0'-70.0': SAA.	
68								
70			4.6			SW		
72	2.0/5.0		8.4				70.0'-75.0': SAA.	
74								
76	5.0/5.0		18				75.0'-78.5': WELL GRADED SAND (SW): medium to fine grained sand, ~20% silt, ~5% rounded gravel, wet, reddish brown, slight naphthalene-like odor.	
78								
			763.9				78.5'-79.0': SAA, naphthalene-like odor, NAPL sheen.	DUP-1-102911
80			319.5			SM	79.0'-80.0': SILTY SAND (SM): fine grained sand and silt, wet, gray, strong naphthalene-like odor.	SB-30(78-79)102911

Remarks: Boring Terminated (ft): 95.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-30

Client: National Grid	**Location:** 222 Maspeth Avenue	
Project: Equity Former MGP Site	**Northing:** 686666.6 **Easting:** 648943.6	**Logged By:** Jessica Ehlen
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 10/23/2011	**Drilling Method:** Sonic	**Water Level (ft):** 10
Finish Date: 10/29/2011	**Borehole Diameter:**	**Total Depth (ft):** 95.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80			1.8			SM	80.0'-80.5': SAA, medium to fine grained sand and silt, slight naphthalene-like odor.	
							80.5'-85.0': CLAY AND SILTY CLAY OF HIGH PLASTICITY (CH): clay, interbedded silt, plastic, firm, wet, gray, no odor.	
82	5.0/5.0		56.5					
84			6.4					
86	3.0/5.0		1.2			CH	85.0'-90.0': SAA.	
88								
90			4.8					
92	4.0/5.0		0				90.0'-94.0': SAA.	
94			0					SB-30(92-94)102911
			0.2			LIG	94.0'-94.5': LIGNITE (L G): lignite.	
			0			CL	94.5-95.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, interbedded silt, firm, wet, light grey, no odor.	

Remarks: Boring Terminated (ft): 95.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-31

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686369.1 **Easting:** 649192.9	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 7/14/2012	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 7/16/2012	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	5.0/5.0	NA			FILL	0'-0.4': CONCRETE. 0.4-0.6': GRAVEL. 0.6-5.0': SILT, SAND (FILL): silty fine to coarse grained sand, 20% fine to coarse grained gravel and cobbles, 5% brick fragments, dark brown, no odor, dry.	
4		0					
6	0.4/5.0	0.2				5.0'-10.0': SILT, SAND (FILL): silty fine to coarse grained sand, fine to coarse grained gravel and cobbles, 5% brick fragments, dark grey, dry.	
8		0					
10							
12	4.2/5.0	1				10'-15.0': SAA, dark brown, no odor, wet.	
14		1.9					
16	5.0/5.0	0.6				15.0'-16.0': SAA, dark brown, no odor.	
18		0.4				17.0'-18..0': SILT (FILL): silt, 15% fine to course grained sand, 10% fine grained gravel, organics, sewage-like odor. 18.0'-20.0': WELL GRADED SAND (FILL): fine to course grained sand, 20% silt, 20% fine to course grained gravel, shell fragment, wood fragment, glass fragment, sewage-like odor.	
20							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-31

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686369.1 **Easting:** 649192.9	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 7/14/2012	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 7/16/2012	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
		12.4			FILL	20.0'-21.0': SAA.	
22					ML	21.0'-21.5': SANDY SILT (ML): silt, <5% fine grained sand, very dark grey, wet, no odor.	
	5.0/5.0	NA			PT	21.5'-25.0': FIBROUS AND FRIABLE PEAT (PT): peat, grey/brown, wood fragment at 25 ft bgs, organic-like odor.	
24		15.9					
						25.0'-27.0': SAA, moderate naphthalene-like odor.	
26		101					
	5.0/5.0				SW	27.0'-30.0': WELL GRADED SAND (SW): fine to medium grained sand, 10% silt, <5% fine grained gravel, grey moderate naphthalene-like odor.	
28		123					
30						30.0'-32.0': SAA, moderate naphthalene-like odor.	
		ND					
32						32.0'-34.0' SAA, small pocket (<0.1 ft thickness) coated with NAPL from 32 to 34 ft bgs, strong naphthalene-like odor, wet.	
	5.0/5.0	206					
34						34.0'-35.0': SAA, coated with NAPL, strong naphthalene-like odor.	SB-31 (33-35)071412
		834					
						35.0'-36.0' SAA, slight naphthalene-like odor.	
36		13.6					
						36.0'-40.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): interbedded fine grained silty sand and clay, grey, wet, no odor.	
38	5.0/5.0				CL		
		2.3					SB-31 (38-40)071412
40							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: SB-31

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686369.1 **Easting:** 649192.9	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 7/14/2012	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 7/16/2012	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	5.0/5.0	0.2			CL	40.0'-45.0': SAA, <5% silt, no odor.	
44		0.3					
46	5.0/5.0	0.2				45.0'-50.0': SAA, no odor.	
48							
50		0.1					
52	4.2/5.0	0.2				50.0'-52.0': SAA, wet, no odor.	
54		0.2				52.0'-55.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, brown, fine sand in tip of sampler, wet, no odor.	
56	5.0/5.0	0.2			SW	55.0'-60.0': WELL GRADED SAND (SW): fine to course sand, <5% silt, <5% fine grained gravel, brown, wet, no odor.	
58							
60							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-31

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686369.1 **Easting:** 649192.9	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 7/14/2012	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 7/16/2012	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62	4.2/5.0	0			SW	60.0'-65.0': WELL GRADED SAND (SW): fine to coarse grained sand, 15% fine to coarse grained gravel, 10% silt, and 5% cobbles, grey, wet, no odor.	
64		0					
66	4.2/5.0	0				65.0'-69.0': SAA, wet, no odor.	
68							
70		0				69.0'-70.0': WELL GRADED SAND (SW): fine to coarse grained sand, 20% fine to coarse grained, 5% cobbles, wet, brown, no odor.	
72	5.0/5.0	0				70.0'-75.0': SAA, 15% fine to coarse grained gravel, no wet, no odor.	
74		0					
76	5.0/5.0	0			CL	75.0-80.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, <5% fine grained sand, <5% silt, <5% fine grained gravel and shell fragments at 75'-76', very dark grey, wet, no odor.	
78							
80		0					

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-31

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686369.1 **Easting:** 649192.9	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.1	**Drilling Company:** Boart Longyear
Start Date: 7/14/2012	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 7/16/2012	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	4.2/5.0	0			CL	80.0'-85.0': SAA, wet, no odor.	
84							
86	5.0/5.0	0 0			SM	85.0'-86.0': SAA, wet, no odor. 86.0'-88.5': SILTY SAND (SM): silty fine grained sand, <5% fine grained gravel, greyish-brown, wet, no odor.	
88							
90		0			CL	88.5'-89.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dense, mottled red/grey, wet, no odor. 89.0'-89.5': SAA. 89.5'-90.5': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 10% silt, grey, wet, no odor. 90.0'-93.0': SAA, wet, no odor.	
92	5.0/5.0	ND					
94					GW	93.0'-94.0': WELL GRADED GRAVEL (GW): cobbles.	
96					CL	94.0'-95.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 10% silt, grey, wet, no odor. 95.0'-100.0': SAA, wet, no odor.	
98	5.0/5.0	ND					
100							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-32

Client: National Grid	**Location:** Greenpoint, North of Maspeth Ave	
Project: Equity Former MGP Site	**Northing:** 686256.9 **Easting:** 648999.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 12/18/2012	**Drilling Method:** Mini Sonic	**Water Level (ft):** 7
Finish Date: 1/8/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	5.0/5.0		0.4			FILL	0.0'-5.0': SILT, SAND, GRAVEL (FILL): silt, ~20% fine to coarse grained sand, ~20% fine to coarse gravel, cobbles, lots of brick fragments, dark brown, moist, no odor.	
4			0.4					
6	1.6/2.0		0				5.0'-7.0': SAA, with glass fragments, moist, no odor.	
8	0.5/3.0		0				7.0'-10.0': SILT, SAND, GRAVEL (FILL): silt, ~20% fine to coarse grained sand, <5% fine gravel, dark brown, wet, no odor.	
10								
12	1.3/2.0		0				10.0'-12.0': SAND, SILT, GRAVEL (FILL): fine to coarse grained sand, ~20% silt, ~20% fine to coarse gravel, cobbles, dark brown, wet, no odor.	
14	1.8/2.0		0				12.0'-14.0': SAA, 1-inch thick bed of light brown sand at 12.5 ft bgs, wet, no odor.	
16	1.3/2.0		0				14.0'-16.0': ASH, CINDERS, GLASS, WOOD, COAL (FILL): ash/cinders, glass, wood, coal, dark grey, wet, no odor.	
18	2.0/2.0		0				16.0'-18.0': SAA, wet, no odor.	
	2.0/2.0		0				18.0'-19.0': SAA, wet, no odor.	
20			4.5			PT	19.0'-20.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat, brown, wet, slight organic odor.	

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-32

Client: National Grid	**Location:** Greenpoint, North of Maspeth Ave	
Project: Equity Former MGP Site	**Northing:** 686256.9 **Easting:** 648999.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 12/18/2012	**Drilling Method:** Mini Sonic	**Water Level (ft):** 7
Finish Date: 1/8/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	1.5/2.0		22.5			PT	20.0'-22.0': SAA, grading to black peat, ~20% organic clay, moist, strong organic odor.	
24	1.5/2.0		19.8				22.0'-24.0': SAA, moist, strong organic odor.	
26	1.5/2.0		17.9				24.0'-26.0': SAA, moist, moderate organic odor.	
28	2.0/2.0		2.6			SP	26.0'-28.0': POORLY GRADED SAND (SP): silty fine grained sand, grey, wet, no odor.	
30	1.6/2.0		NA				28.0'-29.0': SAA, wet, no odor.	
			0.8			ML	29.0'-30.0': SAND, SILT (ML): sandy silt, ~20% fine to coarse gravel, cobbles, brown, wet, no odor.	
32	1.0/2.0		0				30.0'-32.0': SAA, wet, no odor.	
34	1.0/2.0		0				32.0'-34.0': SAA, wet, no odor.	
36	2.0/2.0		0			SW	34.0'-36.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~10% fine to coarse gravel, ~5% silt, brown, wet, no odor.	
38	2.0/2.0		0				36.0'-38.0': SAA, ~1-inch thick later of silt at 37.5 ft bgs, wet, no odor.	
40	1.4/2.0		0				38.0'-40.0': SAA, wet, no odor.	

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-32

Client: National Grid	**Location:** Greenpoint, North of Maspeth Ave	
Project: Equity Former MGP Site	**Northing:** 686256.9 **Easting:** 648999.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 12/18/2012	**Drilling Method:** Mini Sonic	**Water Level (ft):** 7
Finish Date: 1/8/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	2.0/2.0		0			SW	40.0'-42.0': SAA, with cobbles, wet, no odor.	
			NA					
44	0.0/2.0		NA				42.0'-48.0': No recovery.	
46	0.0/2.0		NA			NR		
48	0.0/2.0		NA					
50	2.0/2.0		0			SW	48.0'-50.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~5% silt, ~5% fine gravel, greyish-brown, wet, no odor.	
52	2.0/2.0		0				50'-52': SAA, wet, no odor.	
54	1.3/2.0		0			SP	52.0'-54.0': POORLY GRADED SAND (SP): fine grained sand, ~5% silt, greyish-brown, wet, no odor.	
56	2.0/2.0		0			SW	54.0'-56.0': WELL GRADED SAND (SW): fine to coarse grained sand, <5% silt, <5% fine gravel, greyish-brown.	
58	2.0/2.0		0				56.0'-58.0': SAA, wet, no odor.	
60	2.0/2.0		0				58.0'-60.0': SAA, <5% silt, ~10% fine to coarse gravel, wet, no odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-32

Client: National Grid	**Location:** Greenpoint, North of Maspeth Ave	
Project: Equity Former MGP Site	**Northing:** 686256.9 **Easting:** 648999.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 12/18/2012	**Drilling Method:** Mini Sonic	**Water Level (ft):** 7
Finish Date: 1/8/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60								
62	2.0/2.0		0			SW	60.0'-62.0': SAA, wet, no odor.	
64	0.5/2.0		0			SP	62.0'-64.0': POORLY GRADED SAND (SP): silty fine grained sand, greyish-brown, wet, no odor.	
66	2.0/2.0		0			SW	64.0'-65.0': WELL GRADED SAND (SW): fine to coarse grained sand, ~10% silt, ~10% fine to coarse gravel, greyish-brown, wet, no odor.	SB-32 (64-66)
						ML	65.0'-66.0': SILT (ML): silt, <5% fine grained sand, black, wet, no odor.	
68	2.0/2.0		0			CL	66.0'-67.0': SAA. 67'-68': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dense, ~5-10% fine to coarse gravel, grey, wet, no odor.	
70	0.0/2.0		NA			NR	68.0'-70.0': No recovery	
72	2.0/2.0		0			CL	70.0'-72.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay , dense, ~5-10% fine to coarse gravel, grey, wet, no odor.	
74	2.0/2.0		0				72.0'-74.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dense, red and grey mottled, wet, no odor.	
76	2.0/2.0		0				74.0'-76.0': SAA.	
78	2.0/2.0		0				76.0'-78.0': SAA.	
80	2.0/2.0		0				78.0'-80.0': SAA.	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-32

Client: National Grid	**Location:** Greenpoint, North of Maspeth Ave	
Project: Equity Former MGP Site	**Northing:** 686256.9 **Easting:** 648999.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.5	**Drilling Company:** Boart Longyear
Start Date: 12/18/2012	**Drilling Method:** Mini Sonic	**Water Level (ft):** 7
Finish Date: 1/8/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80								
82	2.0/2.0		0				80.0'-82.0': SAA.	
84	1.0/2.0		0			CL	82.0'-84.0': SAA.	
86	2.0/2.0		0				84.0'-86.0': SAA.	
88	2.0/2.0		0			LIG	86.0'-86.2': SAA. 86.2'-87.0': LIGNITE (LIG): lignite 0.1 ft thickness.	
						ML-CL	87.0'-88.0': SILT (ML/CL): clayey silt, grey, wet, no odor.	
90	0.0/2.0		NA NA			NR	88.0'-90.0': No recovery.	
92	0.0/2.0		NA			NR	90.0'-92.0': No recovery.	
94	1.0/2.0		0			CL	92.0'-94.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dense, red and grey mottled, wet, no odor.	
96	2.0/2.0		0				94.0'-96.0': SAA	
98	2.0/2.0		0				96.0'-98.0': SAA.	
100	2.0/2.0		0				98.0'-100.0': SAA.	

Remarks: Boring Terminated (ft): 100.0

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AECOM Boring and Well Construction Log

BORING #: SB-33

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686867.9 **Easting:** 648966.5	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.3	**Drilling Company:** Boart Longyear
Start Date: 11/14/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 11/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	8.0/8.0	0			FILL	0.0'-1.0': SILT, SAND, AND GRAVEL (FILL): silt, 10% fine to course sand, 10% fine to course gravel, brick and glass fragments, dark grey, dry, no odor. 1.0'-1.5': SLAG (Fill): slag fragments, black, dry, no odor. 1.5'-2.0': SAND, SILT, AND GRAVEL (FILL): fine to course sand, 20% silt, 10% fine to course gravel, cobbles, brick fragments, brown, dry, no odor. 2.0'-4.0': ASH/CINDERS (Fill): ash/cinders, grey, dry, no odor.	
4							
6		0.5				4.0'-8.0': SAND, SILT, AND GRAVEL (FILL): fine to course grained sand, 20% silt, 10% fine to course grained gravel, a lot of brick and concrete fragments, moist, no odor.	
8							
10	0.4/2.0	23.1				8.0'-10.0': SAA, wet, slight naphthalene-like odor.	
12	4.7/5.0	7.4				10.0'-14.0': SAND, SILT, AND GRAVEL (FILL): fine to course sand, 20% silt, 10% fine to course grained gravel, coal fragments, black sand, grey clay/silt at 11.5-12 and 13.5-14 ft bgs, wet, no odor.	
14						14.0'-15.0': ASH/CINDERS (FILL): ash/cinders, grey.	
16						15.0'-18.0': SAA, with coke.	
18	4.1/5.0	13.1					
20		37.5			PT	18.0'-20.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat, dark brown, strong organic-like odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: SB-33

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
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Project #: 60137362	**Ground Elevation (NAVD 88):** 15.3	**Drilling Company:** Boart Longyear
Start Date: 11/14/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 11/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	0.0/5.0	NA			NR	20.0'-25.0': No Recovery (not representative soil).	
24							
26	4.5/5.0	28.4			PT	25.0'-29.0': FIBROUS AND FRIABLE PEAT (PT): peat, wood debris (~28.5-29 ft), dark brown to black, strong organic-like odor.	
28							
30					ML	29.0'-30.0': SILTY SAND (ML): silty, fine to medium grained sand, grading to sandy silt, grey, wet, no odor.	
32	5.0/5.0	29.2			SM	30.0'-35.0': SILTY SAND (SM): silty fine grained sand, grey, wet, strong naphthalene-like odor, few NAPL blebs visible from 32 to 34 ft bgs, NAPL saturated from 34 to 35 ft bgs.	
34		1000+					
36		1000+			SW	35.0'-35.5': SILTY SAND (SM): interbedded silty fine grained sand, and clay, NAPL saturated. 35.5'-36.0': WELL GRADED SAND (SW): gravely fine grained sand, saturated with NAPL.	SB-33 (35-36)
38	4.5/5.0	1.3			ML-CL	36.0'-40.0': SILTY SAND (ML): interbedded silt/clay, greyish-brown, wet, no odor.	
40							

Remarks: Boring Terminated (ft): 100.0

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-33

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686867.9 **Easting:** 648966.5	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.3	**Drilling Company:** Boart Longyear
Start Date: 11/14/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 11/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	2.5/5.0	0.6			ML-CL	40.0'-45.0': SAA, wet, no odor.	
44							
46		ND				45.0'-47.0': SAA, wet, no odor.	
48	4.8/5.0	274			SW	47.0'-48.3': WELL GRADED SAND (SW): silty, fine grained sand, 10% fine to course grained gravel, dark grey, coated with NAPL from 48-48.4 ft bgs.	
50		13.9				48.3'-50.0': WELL GRADED SAND (SW): sandy silt, 20% fine to course grained gravel, greyish-brown, wet, no odor.	
52	4.6/5.0	2.2				50.0'-54.0': SAA, wet, no odor.	SB-33 (50-54)
54					SM	54.0'-55.0': SILTY SAND (SM): silty fine to medium grained sand, greyish-brown, wet, no odor.	
56	5.0/5.0	ND			SW	55.0'-56.5': WELL GRADED SAND (SW): sandy silt, 20% fine to course grained gravel, greyish-brown, wet, no odor.	
58		ND			SM	56.5'-57.0': SILTY SAND (SM): fine grained sand, <5% silt, greyish-brown.	
60		1.2			SW	57.0'-60.0': WWLL GRADED SAND (SW): sandy silt, 20% fine to course grained gravel, cobbles, greyish-brown, ~0.2 ft thick layer of red clay at 57 ft bgs, wet, no odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-33

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686867.9 **Easting:** 648966.5	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.3	**Drilling Company:** Boart Longyear
Start Date: 11/14/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 11/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62	4.5/5.0	1.2			SW	60.0'-62.5': WELL GRADED SAND (SW): silty fine to course grained sand, 10% fine to course grained gravel from 62 to 62.5 ft bgs, greyish-brown, wet, no odor.	
64		1.1				62.5-65.0': WELL GRADED SAND (SW): sandy silt, 20% fine to course grained gravel, cobbles, greyish-brown, wet, no odor.	
66	5.0/5.0	1.3				65.0'-68.0': SAA, wet, no odor.	
68							
70					GW	68.0'-70.0': WELL GRADED GRAVEL (GW): boulder.	
72	5.0/5.0	1.3				70.0'-75.0': SAA 65-68 ft bgs, wet, no odor.	
74							
76	5.0/5.0	1.3				75.0'-77.0': WELL GRADED GRAVEL (GW): boulder.	
78						77.0'-80.0': SAA 70 TO 75 ft bgs, wet, no odor.	
80							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-33

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686867.9 **Easting:** 648966.5	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.3	**Drilling Company:** Boart Longyear
Start Date: 11/14/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 11/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	5.0/5.0	0			SW	80.0'-83.0': SAA, wet, no odor.	
84					CL	83.0'-84.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dark grey, no odor. 84.0'-85.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, grey, wet, no odor.	
86	5.0/5.0	0				85.0'-89.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, cobbles at 86 and 86.5 ft bgs, grey, wet, no odor.	
88							
90						89.0'-90.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, dense, 1-inch bad of dark grey clay at 89 ft bgs, no odor.	
92	4.0/5.0	0				90.0'-95.0': SAA, wet, no odor.	
94							
96	5.0/5.0	0				95.0'-96.0': SAA, wet, no odor. 96.0'-98.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 20% gravel, cobbles, greenish-grey.	
98		0				98.0'-100.0': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clayey silt, very dark grey, wet, no odor.	
100							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-34

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686792.4 **Easting:** 648894.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.1	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	8.0/8.0	0			FILL	0.0'-2.0': SILT, SAND, AND GRAVEL (FILL): silt, 20% fine to coarse grained sand, 10% fine to coarse grained gravel, cobbles, brick fragments, dark grey, moist , no odor	
4		0.5				2.0'-8.0': SAND, SILT, AND GRAVEL (FILL): fine to coarse grained sand and silt, 20% fine to coarse grained gravel, cobbles, brick fragments, concrete fragments	
6							
8							
10	0.4/2.0	0.3				8.0'-10.0': SAA, wet, no odor.	
12	2.5/5.0	0.3				10.0'-15.0': SAA, no odor, wet.	
14							
16	2.5/5.0	1.1				15.0'-20.0': SAA, trace of wood fragments, wet, slight solvent-like odor.	
18							
20							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-34

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686792.4 **Easting:** 648894.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.1	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.7/5.0	3.5			FILL	20.0'-23.0': SAA, trace coal fragment, wet, no odor.	
24		11.4			PT	23.0'-25.0': FIBROUS AND FRIABLE PEAT (PT): fibrous peat grading to compact peat, black brown to dark brown, wet, slight organic-like odor.	
26	3.0/5.0	8.7				25.0'-29.0': FIBROUS AND FRIABLE PEAT (PT): compacted pet, very dark brown to black, wet, slight organic-like odor.	
28							
30		2.2			SW	29.0'-30.0': WELL GRADED SAND (SW): sandy silt, 5 % fine to coarse grained gravel with thin beds of silty clay, 2" bed of fine sand at 29 ft bgs, grey, wet, no odor.	
32	3.7/5.0	4.1				30'-35': WELL GRADED SAND (SW): sandy silt, 10% fine to coarse grained gravel and fine to medium grained silty sand, 10% fine to coarse grained gravel, interbedded grey to greyish black, wet, no odor.	
34							
36	5.0/5.0	1.5				35'-40: WELL GRADED SAND (SW): sandy silt, 10% fine to coarse grained gravel, cobbles, greyish brown to grey, wet, no odor.	DUPE-1-13 SB-34 (35-36)
38							
40							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-34

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686792.4 **Easting:** 648894.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.1	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	5.0/5.0	0.3				40.0'-45.0': WELL GRADED SAND (SW): sand silt, 20% fine to course gravel, cobbles, greyish-brown, wet, no odor.	
44							
46	5.0/5.0	0.2				45.0'-50.0': SAA, 10% fine to course grained gravel, wet, no odor.	
48							
50					SW		
52	4.5/5.0	0				50.0'-55.0': SAA, wet, no odor.	
54							
56	4.2/5.0	0.2				55.0'-60.0': SAA, more cobbles, wet, no odor.	
58							
60							

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-34

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686792.4 **Easting:** 648894.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.1	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
60							
62	3.2/5.0	0.2			SM	60'-64': WELL GRADED SAND (SW): fine to coarse grained sand, 10% silt, wet, no odor.	
64						63.5'-65: SAA from 55 to 60 ft bgs, wet, no odor.	
66	4.5/5.0	0				65'-70': SAA, wet, no odor.	
68							
70							
72	5.0/5.0	0.3			SW	70'-75': SAA, fewer cobbles, wet, no odor.	
74							
76	5.0/5.0	0.3				75-78.5': SAA, wet, no odor.	
78							
80		1.1			CL	78.5'-80': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, 20% fine grained sand, shell fragments, 1-inch layer of fine to coarse grained sand at 79 ft bgs, dark grey, wet, no odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-34

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686792.4 **Easting:** 648894.4	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.1	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 5
Finish Date: 1/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 100.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
80							
82	4.8/5.0	0.2				80'-85': SAA, fine to course grained sand and shell debris from 81 to 81.3 ft bgs, wet, no odor.	
84							
86	5.0/5.0	0.2			CL	85'-90': SAA, trace organic material, wet, no odor.	
88							
90							
92	5.0/5.0	0				90'-94': SAA, 1-inch layer of dark brown peat at 94 ft bgs, wet, no odor.	
94						94'-95': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): clay, clayey silt, dense, greenish-grey, wet, no odor.	
96						95'-97': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, wet, no odor.	
98	4.8/5.0	0.3			SM	97'-98': SILTY SAND (SM): silty, fine grained sand, brown, wet, no odor.	SB-34 (97-98)
100					CL	98'-100': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, grey, dark grey and black, wet, no odor.	

Remarks: Boring Terminated (ft): 100.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-35

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686944.9 **Easting:** 648944.6	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.2	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 6
Finish Date: 1/22/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
2	8.0/8.0	0.5			FILL	0.0'-1.0': SILT AND GRAVEL (FILL): silt, 10% fine to coarse grained gravel, cobbles, brick fragments, glass, metal dark grey, moist , no odor 1.0'-7.0': SAND, SILT, AND GRAVEL (FILL): fine to coarse grained sand, 20% silt, 20% fine to coarse grained gravel, cobbles, brick, asphalt, >5% slag, dark brown, moist to 6 ft bgs, wet 6 to 7 ft bgs, no odor.	
4							
6							
8		0.5				7.0'-8.0': SILT, SAND, AND GRAVEL (FILL): silt, 20% fine to coarse grained sand, 10% fine to coarse grained gravel, cobbles, reddish brown, wet, no odor	
10	2.0/2.0	ND				8.0'-10.0': SAA.	
12	4.0/5.0	NA				10.0'-13.0': SAA.	
14						13.0'-15.0': SANDY SILT (FILL): sandy silt, dark grey/black, wet, no odor.	
16	3.0/5.0	62.3				15'-16': SAA, wet, no odor.	
18						16.0'-19.0': SAND AND GRAVEL (FILL): fine to coarse grained sand, 20% fine to coarse grained gravel, coal fragments, clickers, black, wet, moderate naphthalene-like odor	
20						19.0'-20.0': ASH AND WOOD DEBRIS (FILL): ash and wood debris, light grey, wet, no odor.	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-35

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686944.9 **Easting:** 648944.6	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.2	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 6
Finish Date: 1/22/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	2.0/5.0	33.8			FILL	20.0'-25.0': SAND (FILL): fine to coarse grained sand and coal, silt, black/dark grey, light grey coke at 24.5 ft bgs, wet, slight naphthalene-like odor.	
24							
26	4.5/5.0	27.8			PT	25.0'-26.0': SILT., ASH (FILL: silt and ash, light grey, wet, no odor. 26.0'-30.0': FIBROUS AND FRIABLE PEAT (PT): peat, brown to black, strong organic-like odor, fine to medium coarse grained sand, grey, at 29.75 ft bgs.	
28							
30							
32	3.7/5.0	15.5			SM	30'-35': SANDY SILT (SM): sandy silt, 10% fine to coarse grained gravel and fine to medium grained silty sand, 10% fine to coarse grained gravel, interbedded grey to greyish black, wet, no odor.	
34							
36	4.7/5.0	7.8				35'-40: SAA, grading to sandy silt, wet, slight organic-like odor.	SB-35 (35-36)
38							
40							

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-35

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686944.9 **Easting:** 648944.6	**Logged By:** Steve wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.2	**Drilling Company:** Boart Longyear
Start Date: 1/16/2013	**Drilling Method:** Sonic	**Water Level (ft):** 6
Finish Date: 1/22/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40							
42	2.5/5.0	4.6			SM	40'-45': SAA, trace organics at 44 to 45 ft bgs, wet, slight organic-like odor.	SB-35 (44-45)
44							
46	4.0/5.0	1.5			CL	45'-49': CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): silty clay, trace fine to coarse grained gravel, grey, wet, no odor.	
48							
50						49'-50': WELL GRADED SAND (SW): sand silty, 5% fine to coarse grained gravel, cobbles at 50 ft bgs, greyish-brown, wet, no odor.	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

Location ID: MW-16A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 300 Maspeth Avenue (SB-36)	
Project #: 60273164	**Northing:** 686636.9 **Easting:** 649845.3	**Total Boring Depth (ft bgs):** 20.7
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 4
Site Loc: 7/10/2013	**Ground Elevation (ft NAVD 88):** 11.86	**Soil Sample Collection Method:** DP
Start Date: 7/10/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Screen Intervals (ft bgs):** 8-18
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-36/MW-16B,C for Soil Descriptions.			Flush Mount Cover
2										2" Diam. Sch. 40 PVC Riser
4										#1 Sand
6										Bentonite
8										#1 Sand
10										2" Diam. 0.010 PVC Well Screen
12										
14										
16										
18										2" Diam. PVC Sump
20										

Notes:

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0						
				FILL		0.5 0'-6': ASPHALT
						0.7 6"-8": CONCRETE
						0.8 8"-10": ASPHALT
						10"-2': compacted concrete, gravel, rock, brick debris
2						2.0
						2.5 2'-2.5': SAA, at 2.5 ft bgs plastic mesh layer separating compacted fill from soil.
	NA	0				3.0 2.5'-3': SAA, fine sand with 30% rocks and concrete debris, dry, brown, no odor.
4						3'-5': SAA
						5.0
6						5'-8': SAA, 30% brick debris.
	3.0/3.0	0				
8						8.0
10				PT		8'-13': FIBEROUS AND FRIABLE PEAT (PT) very fibrous peat, black, strong organic odor, dry.
	3.0/5.0	3.3				
12						
						13.0
14	2.0/2.0			OH		13'-18': ORGANIC CLAY (OH) organic clay with 20% shell debris, black, wet.
	1.0/2.0					
16		0				
	0.9/2.0					
18						18.0
						18'-20': SILTY CLAY (CL): clay, 30% silt, dark grey, soft and mucky, low plasticity,
	1.8/2.0	0				
20						20.0

Remarks: Boring Terminated (ft): 115.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

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Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
20									
22	3.0/3.0	0				13'-18': ORGANIC CLAY (OH) organic clay with 20% shell debris, black, wet. *(continued)* 20'-23': SAA			
24						23.0 23'-27': ORGANIC CLAY (OH) sandy organic clay, strong organic odor, dark brown, wet.			
26	5.0/5.0	0							
28				SP		27.0 27'-28':POORLY GRADED SAND (SP) fine to medium grained sand, organic odor, 28.0			
30	5.0/5.0	0		SC		28'-31': CLAYEY SAND (SC) clayey fine to medium sand, no odor, dark grey, wet 31.0 31'-33': CLAYEY SAND (SC) clayey sand, wet, no odor, dark grey, wet.			
32									
34						33.0 33-36.5': SAA.			
36	5.0/5.0	0				36.5			
38				SW		36.5'-38': WELL GRADED SAND (SW) fine to medium sand, little coarse grained sand, no odor, dark grey, wet. 38.0			
40	NA	NA		NR		38'-40': No recovery. 40.0			

Remarks: Boring Terminated (ft): 115.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40	NA	NA		NR		40'-41': No Recovery			
						41.0			
42	2.0/2.0	0.1		SC		41'-43': CLAYEY SAND (SC) clayey sand, wet, no odor, dark grey.			
						43.0			
44	5.0/5.0	0		SW		43'-48': WELL GRADED SAND (SW) fine to coarse grained sand, brownish grey, wet			
46									
48						48.0			
50	5.0/5.0	0		CL		48'-53': CLAY (CL) with traces of silt, grey, no odor, wet.			
52									
						53.0			
54	5.0/5.0	0				53'-58': SAA.			
56									
58						58.0			
60						58'-63': SAA			

Remarks: Boring Terminated (ft): 115.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						48'-53': CLAY (CL) with traces of silt, grey, no odor, wet. *(continued)*			
62	5.0/5.0	0							
						63.0 63'-68': CLAY (CL) grey, no odor, wet.			
64									
66	5.0/5.0	0							
68						68.0 68-73: CLAY (CL) silty clay, with thin laminae of fine to medium sand through, grey, no			
70									
72	5.0/5.0	0							
						73.0 73'-78': SAA.			
74									
76	5.0/5.0	0							
78						78.0 78'-80': SAA.			
80	2.0/2.0	0				80.0			

Remarks: Boring Terminated (ft): 115.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80						48'-53': CLAY (CL) with traces of silt, grey, no odor, wet. *(continued)* 80-83 SAA, 82.5 ft bgs, 6 inch layer of fine to medium sand, brown, wet.			
82	3.0/3.0	0							
						83.0 83'-93': SAA.			
84									
86									
88	10.0/10.0	0							
90									
92									
						93.0 93'-98': CLAY (CL) with a trace of fine sand throughout. 97 ft bgs a 6 inch layer of fine to medium sand, brown, no odor, wet			
94									
96	5.0/5.0	0							
98						98.0			
100	2.0/2.0	0		SW		98'-100': WELL GRADED SAND (SW) medium to coarse sand, brown, slight 100.0			

Remarks: Boring Terminated (ft): 115.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-36/MW-16B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 115.0
Project #: 60273164	**Northing:** 686637.9 **Easting:** 649848.2	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/8/2013	**Ground Elevation (ft NAVD 88):** 11.803	**Well Screen Intervals (ft bgs):** 38-48 and 98-108
Start Date: 7/8/2013 **Finish Date:** 7/8/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: Kristen Barbour	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 13

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100						98'-100': WELL GRADED SAND (SW) medium to coarse sand, brown, slight *(continued)*			
						100'-103':SAA			
102		0							
						103.0			
						103'-108': SAA.			
104									
	5.0/5.0								
106		0							
108						108.0			
						108'-110': SAA.			
110						110.0			
						110-112: CLAY			
112	6.4/6.5	0				112.0			
						112.4 112-112.4: LIGNITE			
				CL		112.4'-114.6': GARDINERS CLAY			
114									
						115.0			

End of boring at 115.0 ft. bgs.

Remarks: Boring Terminated (ft): 115.0

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Notes:

Boring and Well Construction Log

Location ID: MW-17A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 300 Maspeth Avenue (SB-37)	
Project #: 60273164	**Northing:** 686381.5 **Easting:** 649721.2	**Total Boring Depth (ft bgs):** 20.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 4
Site Loc: 7/11/2013	**Ground Elevation (ft NAVD 88):** 11.852	**Soil Sample Collection Method:** DP
Start Date: 7/11/2013 **Finish Date:** 7/11/2013	**Drilling Company:** Glacier Drilling	**Well Screen Intervals (ft bgs):** 8-18
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-37/MW-17B,C for Soil Descriptions.			Flush Mount Cover
2										2" Diam. Sch. 40 PVC Riser
4										#1 Sand
6										Bentonite
8										#1 Sand
10										2" Diam. 0.010 PVC Well Screen
12										
14										
16										
18										2" Diam. PVC Sump
20										

Notes:

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
0									
				FILL		0.0'-0.7' ASPHALT			
						0.7			
						0.9 0.7'-0.9' CONCRETE			
						1.1 0.9'-1.1' ASPHALT			
2						1.1'-2.5' Compacted concrete, gravel, rock, brick debris. Plastic mesh layer at 2.5 ft.			
						2.5			
	NA	0				2.5'-5.0' FINE SAND with 30% rocks and concrete debris, dry, brown, no odor.			
4									
						5.0			
						5.0'-10.0' FILL, silty fine sand, trace brick, glass, and cement, brown, moist to wet,			
6									
8	5.0/5.0	0							
10						10.0			
						10.0'-10.5' FILL, sand and gravel, few cobbles, little fines, dark brown, loose, wet 10.5			
						10.5'-12.5' FILL, silty fine sand, trace gravel, yellowish brown, wet, no odor.			
12									
						12.5			
		0				12.5'-20.0' FILL, ash, trace of glass, nails, ceramic, brown, wet			
14									
	10.0/10.0								
16									
		0							
18									
20						20.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
20						
22	10.0/10.0	0		CL		20.0'-26.0' SILTY-CLAY, trace of shells, moist, brackish odor.
24						
26						26.0
		19		PT		26.0'-27.3' PEAT, friable, reddish brown, wet, organic odor.
						27.3
28		10		SP		27.3'-30.0' FINE SAND, coarsens downward to fine-medium sand at depth, grey, wet,
30						30.0
						30.0'-32.3' FINE-MEDIUM SAND, loose, moist, grey, no odor, slight fining downward.
32		0				32.3
34						32.3'-36.7' SILT, bed of silty fine sand 33.4-35.9 feet, grey, wet, no odor.
36	10.0/10.0					
		0				36.7
38						36.7'-40.0' MEDIUM SAND, little fine sand, interbedded with fine sand, trace medium
40						40.0

Well | **Well Shallow** | **Lab Sample Collection Depth**

Remarks: Boring Terminated (ft): 120.0

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Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40									
				ML		40.0'-45.0' INTERBEDDED SANDY SILT AND CLAYEY SILT, brown to grey,			
42									
44									
46	10.0/10.0	3							
48									
50						50.0			
						50.0'-55.6' SILT AND CLAY, firm, moderate plasticity, moist, light grey brown.			
52									
54									
	10.0/10.0	0				55.6			
56				SP		55.6'-60.0' FINE SAND, micaceous, trace of silt, stratified, light brown, well sorted,			
58									
60						60.0			

Remarks: Boring Terminated (ft): 120.0

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Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60									
				CL		60.0'-70.0' SILT-CLAY, weak varves, greenish grey, wet, no odor.			
62		0							
64									
66	10.0/10.0								
68		0							
70						70.0			
						70.0'-80.0' SAA.			
72		0							
74									
76	10.0/10.0								
78		0							
80						80.0			

Remarks: Boring Terminated (ft): 120.0

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Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80									
82	10.0/10.0	0		SW		80.0'-85.3' INTERBEDDED FINE TO MEDIUM SAND, trace gravel, brown with			
84									
86		0		ML		85.3'-90.0' FIND SAND AND SILT, trace fine gravel, dark grey some red-brown stain,			
88									
90						90.0			
92	5.0/10.0	0		CL		90.0'-92.8' CLAY, varved, grey, wet, no odor.			
94				SW-SM		92.8 92.8'-95.0' MEDIUM SAND, little fine sand, trace coarse sand, fine gravel, and silt,			
96				NR		95.0 95'-100': No Recovery			
98		NR							
100						100.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

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Boring and Well Construction Log

Location ID: SB-37/MW-17B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686382.4 **Easting:** 649723.6	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/9/2013	**Ground Elevation (ft NAVD 88):** 11.854	**Well Screen Intervals (ft bgs):** 36-46 and 100-110
Start Date: 7/9/2013 **Finish Date:** 7/10/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100				NR		100.0'-112.0: No Recovery, running sands.			
102									
104									
106	0.0/10.0	NR							
108									
110						110.0			
112				SW		110.0'-112.0' MEDIUM-COARSE SAND AND GRAVEL, few to trace cobbles, wet,. 112.0			
114				CL		112.0'-116.4' CLAY-SILT, very dense, micaceous.			
116	10.0/10.0	0				116.4 116.4'-117.1' LIGNITE 117.1 117.1'-120' GARDINERS CLAY			
118									
120						120.0			

End of boring at 120.0 ft. bgs.

Remarks: Boring Terminated (ft): 120.0

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Notes:

Boring and Well Construction Log

Location ID: MW-18A

Sheet 1 of 1

Client: National Grid	**Boring Location:** 300 Maspeth Avenue (SB-38)	
Project #: 60273164	**Northing:** 686781.4 **Easting:** 649804.1	**Total Boring Depth (ft bgs):** 20.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 4
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 11.91	**Soil Sample Collection Method:** DP
Start Date: 7/13/2013 **Finish Date:** 7/13/2013	**Drilling Company:** Glacier Drilling	**Well Screen Intervals (ft bgs):** 8-18
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-38/MW-18B,C for Soil Descriptions.			Flush Mount Cover
2										2" Diam. Sch. 40 PVC Riser
4										#1 Sand
6										Bentonite
8										#1 Sand
10										2" Diam. 0.010 PVC Well Screen
12										
14										
16										
18										2" Diam. PVC Sump
20										

Notes:

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
0				FILL		0.0'-0.5' ASPHALT
						0.5 0.5'-0.7' CONCRETE
						0.7 0.7-0.9' ASPHALT
						0.9 0.9'-2.5' Compacted concrete, gravel, rock, brick debris. Plastic mesh layer
2						
	NA	0				2.5 2.5'-5.0' Fine sand with 30% rocks and concrete debris, dry, brown, no odor.
4						
						5.0 5.0'-10.0' FILL, silty fine sand and gravel, trace brick and cement, brown, dry, no odor.
6						
8	5.0/5.0	0				
10						10.0 10'-11.3' SAA with trace cobbles and silt-clay lens at 11.0-11.3, wet.
		85				11.3 11.3'-12.8' FILL, fine sand and silt, trace ash, loose, wet.
12						
		0				12.8 12.8'-17.5' FILL, fine sand and silt, with lenses of sand and gravel. Peat mixed in
14						
	7.5/10.0	8.2				
16						
						17.5
18				NR		17.5'-20.0' No Recovery.
20						20.0

Well | **Well Shallow** | **Lab Sample Collection Depth**

Remarks: Boring Terminated (ft): 120.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
20						17.5'-20.0' No Recovery. *(continued)* 20.0'-21.9' SAA.			
22		0.4		NR		21.9			
				FILL		21.9-23.2' FILL, silt little fine sand, trace gravel and metal scraps, yellowish brown, grey,			
24				CL		23.2 23.2'-25.7' SILTY CLAY, firm, dry, grey			
	10.0/10.0	0.5				25.7			
26				OH		25.7'-27.4' SILTY-CLAY AND PEAT (Fibrous), interbedded, very firm, dark grey,			
28		0.3		PT		27.4 27.4'-28.6' PEAT, fibrous, reddish brown to black, dry, organic odor.			
				SP		28.6 28.6'-30' FINE SAND, trace silt and pebbles, grey.			
30						30.0 30'-31.3' FINE SAND, trace medium sand, loose, grey, moist.			
		0.7				31.3			
32				SM		31.3'-38.4' FINE SANDY SILT, trace clay to few clay at depth, grey, firm.			
34									
	10.0/10.0	17							
36									
38						38.4			
				SP		38.4'-40' FINE SAND, loose, greyish brown, wet, no odor.			
40		0.3				40.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40									
	NA	NA				38.4'-40' FINE SAND, loose, greyish brown, wet, no odor. *(continued)* 40.0'-41.1' SAA			
						41.1 41.1'-43.0' SANDY SILT, loose, moist, grey brown, stratified.			
42	2.0/2.0	0.1				43.0			
				CL		43.0'-50.0: SILTY CLAY, very firm, dry, low plasticity, green-gray, no odor.			
44									
46	5.0/5.0	0							
48									
50						50.0			
	5.0/5.0	0				50.0'-60.0' SAA, but somewhat siltier.			
52									
54									
56	5.0/5.0	0							
58									
60	2.0/2.0	0				60.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						43.0'-50.0: SILTY CLAY, very firm, dry, low plasticity, green-gray, no odor. *(continued)* 60.0'-70.0' SILT-CLAY, varved, greenish grey, wet, no odor.			
62									
64									
66	10.0/10.0	0							
68									
70						70.0 70.0'-80.0' SSA, with fine sand lens, brown, 75.8-76.1 feet and interbedded fine sand			
72									
74									
76	10.0/10.0	0							
78									
80						80.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80						43.0'-50.0: SILTY CLAY, very firm, dry, low plasticity, green-gray, no odor. *(continued)* 80.0'-88.1' SAND-SILT-CLAY. Varved clay sets that include a fine sand layer,			
82		0							
84									
86	10.0/10.0								
88		0				88.1 88.3 88.1'-88.3' FINE SAND, wet, reddish-brown. 88.3'-90.0' SILT-CLAY, greenish gray			
90						90.0			
92		0		SP-SM		90.0'-96.0' FINE SAND, little to few silt, trace clay, brownish-grey, saturated .			
94									
96	10.0/10.0					96.0 96.0'-100.0' INTERBEDDED SILT and SAND, silt red-brown, moist, sand fine			
98		0							
100						100.0			

Remarks: Boring Terminated (ft): 120.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-38/MW-18B,C

Client: National Grid	**Boring Location:** 300 Maspeth Avenue	**Total Boring Depth (ft bgs):** 120.0
Project #: 60273164	**Northing:** 686785.1 **Easting:** 649803.0	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/12/2013	**Ground Elevation (ft NAVD 88):** 11.981	**Well Screen Intervals (ft bgs):** 32-42 and 97-107
Start Date: 7/12/2013 **Finish Date:** 7/12/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 11

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
100									
102	10.0/10.0	0				90.0'-96.0' FINE SAND, little to few silt, trace clay, brownish-grey, saturated . *(continued)* 100.0'-110.0' SAA, with some variation in color and slightly coarser sands.			
104									
106		0							
108									
110						110.0 110.0'-113.6' SAA.			
112	10.0/10.0	0							
114				CL		113.6 113.6'-115.4' GARDINERS CLAY			
116						115.4 115.4'-116.6' LIGNITE 116.6 116.6'-120.0' GARDINERS CLAY			
118		0							
120						120.0 End of boring at 120.0 ft. bgs.			

Remarks: Boring Terminated (ft): 120.0

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Notes:

Boring and Well Construction Log

Location ID: MW-19A

Client: National Grid	**Boring Location:** Rewe Street (SB-39)	
Project #: 60273164	**Northing:** 686298.5 **Easting:** 649501.6	**Total Boring Depth (ft bgs):** 25.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 4
Site Loc: 7/14/2013	**Ground Elevation (ft NAVD 88):** 9.959	**Soil Sample Collection Method:** DP
Start Date: 7/14/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Screen Intervals (ft bgs):** 8-18
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
0							See Boring SB-39/MW-19B,C for Soil Descriptions.			Flush Mount Cover
2										2" Diam. Sch. 40 PVC Riser
4										#1 Sand
6										Bentonite
8										#1 Sand
10										2" Diam. 0.010 PVC Well Screen
12										
14										
16										
18										
20										

Notes:

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Definitions:
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

(Continued Next Page)

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Boring and Well Construction Log

Location ID: MW-19A

Client: National Grid	**Boring Location:** Rewe Street (SB-39)	
Project #: 60273164	**Northing:** 686298.5 **Easting:** 649501.6	**Total Boring Depth (ft bgs):** 25.0
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Boring Diameter (in):** 4
Site Loc: 7/14/2013	**Ground Elevation (ft NAVD 88):** 9.959	**Soil Sample Collection Method:** DP
Start Date: 7/14/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Screen Intervals (ft bgs):** 8-18
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):**

Depth (ft bgs)	Recovery (ft/ft)	Blowcounts (per 6")	PID (ppm)	Visible/Olifactory Observations	USCS Code	USCS Pattern	Soil and Rock Description Classification Scheme: USCS	Lab Sample Interval	Well	Well Construction
20										
22										2" Diam. 0.010 PVC Well Screen
24										2" Diam. PVC Sump

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Definitions:
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7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) WOR - Weight of Rods (drilling)
10.) WHO - Weight of Hammer
11.) NR - No Recovery

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Boring and Well Construction Log

Location ID: SB-39/MW-19B,C

Client: National Grid	**Boring Location:** Rewe St.	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686295.9 **Easting:** 649502.8	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 9.859	**Well Screen Intervals (ft bgs):** 28-38 and 78-88
Start Date: 7/13/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
0									
				FILL		0.0'-0.5' ASPHALT			
						0.5 0.5'-0.7' CONCRETE			
						0.7 0.7'-0.9' ASPHALT			
						0.9 0.9'-2.5' FILL: Compacted concrete, gravel, rock, and brick debris. A plastic mesh layer			
2									
	NA	0				2.5 2.5'-5.0' FILL: Fine Sand with 30% gravel and concrete; brown, dry, no odor.			
4									
						5.0 5.0'-10.0' FILL: Silty Fine Sand, trace of clay, coal, ash, and gravel; brown/black, moist,			
6		3							
8	5.0/5.0								
		7.8							
10						10.0 10.0'-11.3' FILL: Coal ash and silt; black/dark grey, wet.			
		8.4				11.3 11.3'-12.6' FILL: Fine Sand and Silt, trace gravel; yellowish brown, wet.			
12									
						12.6 12.6'-14.5' Fill: Coal ash, trace glass and brick.			
14		4							
						14.5			
				PT		14.5'-15.0' PEAT: Friable peat and silt, trace wood and brick; black/grey, moist.			
	10.0/10.0					15.0 15.0'-20.0' PEAT: Friable peat , reddish-brown, slightly firm.			
16									
18		18							
20						20.0			

Remarks: Boring Terminated (ft): 100.0

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Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-39/MW-19B,C

Client: National Grid	**Boring Location:** Rewe St.	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686295.9 **Easting:** 649502.8	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 9.859	**Well Screen Intervals (ft bgs):** 28-38 and 78-88
Start Date: 7/13/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS
20						14.5'-15.0' PEAT: Friable peat and silt, trace wood and brick; black/grey, moist. *(continued)* 20.0'-21.4' PEAT, friable, black/red brown, wet, mothball odor.
22		70				21.4 21.4-22.4 PEAT and SILT, friable, dark grey, moist. 22.4
24		26		SP-SM		22.4'-23.3' MEDIUM TO FINE SAND, yellowish-gray, mottled, wet, 23.3 23.3'-24.5' SILTY FINE SAND, grey, wet, no odor. 24.5
26	10.0/10.0	16				24.5'-25.9' SILT yellowish grey, firm, wet, no odor. 25.9 25.9'-30.0' MEDIUM SAND, little fine sand, grey, wet, no odor.
28		32				
30						30.0 30.0'-33.0' MEDIUM SAND, few fine sand, yellow, wet, no odor.
32		52.9				
34						33.0 33'-37.4' FINE TO MEDIUM SAND, trace coarse sand, little-few silt, stratified,
36	10.0/10.0	94				
38						37.4 37.4'-40.0' SILT, trace clay, yellowish brown, wet, no odor.
40		25				40.0

Well	Well Shallow	Lab Sample Collection Depth

Remarks: Boring Terminated (ft): 100.0

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Fax: 978.905.2101

1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

Boring and Well Construction Log

Location ID: SB-39/MW-19B,C

Client: National Grid	**Boring Location:** Rewe St.	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686295.9 **Easting:** 649502.8	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 9.859	**Well Screen Intervals (ft bgs):** 28-38 and 78-88
Start Date: 7/13/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
40				CL		40.0'-50.0 CLAY, varved.			
42									
44									
46	10.0/10.0	3							
48									
50						50.0			
						50.0'-60.0' CLAY, varved.			
52									
54									
56	10.0/10.0	0							
58									
60						60.0			

Remarks: Boring Terminated (ft): 100.0

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Notes:

(Continued Next Page)

Boring and Well Construction Log

Client: National Grid	**Boring Location:** Rewe St.	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686295.9 **Easting:** 649502.8	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 9.859	**Well Screen Intervals (ft bgs):** 28-38 and 78-88
Start Date: 7/13/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
60						40.0'-50.0 CLAY, varved. *(continued)* 60.0'-70.0' SILTY CLAY, moderately plastic, varves not as pronounced, grey-brown,			
62		0							
64									
66	10.0/10.0								
68		0							
70						70.0 70.0'-71.2' SAA.			
72				SP-SM		71.2 71.2'-78.0' INTERBEDDED SAND AND SILT. Silt, trace clay, yellow brown;			
74		0							
76	8.5/10.0								
78		0				78.0 78.5 78.0'-78.5' Cobbles			
80				NR		78.5'-80' No recovery 80.0			

Remarks: Boring Terminated (ft): 100.0

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1. NA-Not Applicable, 2. ft-feet, 3. bgs-below ground surface, 4. SAA-Same As Above, 5. ppm-parts per million, 6. NAVD 88-North American Vertical Datum of 1988, 7. PID-Photo Ionization Meter, 8. U.S.C.S.-Unified Soil Classification System, 9. ND-Not Documented

Notes:

(Continued Next Page)

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Boring and Well Construction Log

Location ID: SB-39/MW-19B,C

Client: National Grid	**Boring Location:** Rewe St.	**Total Boring Depth (ft bgs):** 100.0
Project #: 60273164	**Northing:** 686295.9 **Easting:** 649502.8	**Boring Diameter (in):** 6
Project: Equity Former MGP	**Coordinate System:** State Plane, NAD 83	**Soil Sample Collection Method:** DP
Site Loc: 7/13/2013	**Ground Elevation (ft NAVD 88):** 9.859	**Well Screen Intervals (ft bgs):** 28-38 and 78-88
Start Date: 7/13/2013 **Finish Date:** 7/14/2013	**Drilling Company:** Glacier Drilling	**Well Sump Intervals (ft bgs):**
Logged By: W. Abrahams-Dematte	**Drilling Method:** Roto-Sonic	**Water Level (ft):** 7

Depth (ft bgs)	Recovery (feet)	PID (ppm)	Impacted Area and Well Construction	USCS Code	Graphic	Soil and Rock Description Classification Scheme: USCS	Well	Well Shallow	Lab Sample Collection Depth
80						80.0'-89.3' FINE SAND TO COBBLES, little-trace silt, reddish to yellowish brown, wet.			
82		0							
84									
86		0							
88									
90	13.5/20			NR		89.3 89.3'-95.8' No Recovery, but presumed SAA.			
92		0							
94									
96				CL		94.8 94.8'-95.6': LIGNITE 95.8 95.8'-96.6' LIGNITE			
98		0				96.6 96.6'-100' GARDINERS CLAY			
100						100.0 End of boring at 100.0 ft. bgs.			

Remarks: Boring Terminated (ft): 100.0

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Notes:

AECOM Boring and Well Construction Log

BORING #: SB-40

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686577.9 **Easting:** 648944.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.9	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0-0.5 Concrete	
2	NA	NA	0.3			FILL	0.5'-5'. FILL: Dark gray, fine to course sand, 25% silt, 25% fine to coarse gravel, brick fragments, glass fragments, cobbles, dry, no odor	
4								
6	5	NA	2.4				5'-10'. FILL: Gray silt, 25% fine to coarse sand, 10% fine to coarse gravel, brick fragments, dry, no odor. Black at 9.5'-10', no odor. Moist at 10'	
8			8.7					
10								SB40 (9-10)_460-92568-1
12	3.7	NA	4.6			FILL	10'-15'. FILL: Gray silt, 25% fine to coarse sand, 5% fine to coarse gravel, brick fragments, wet, no odor.	
14			3.1					
16	2.5	NA	276				15'-19.5'. FILL: Gray silt, 25% fine to coarse sand, 5% fine to coarse gravel, brick fragments, wet, stained with NAPL. moderate naphthalene-like odor. Black cinders and coal at 17-19.5', stained with NAPL, wet, moderate naphthalene-like odor	
18								
20							19.5'-20': Brown fine to medium sand, 10% silt, wet, stained with NAPL, small pockets of NAPL,	

Remarks: Boring Terminated (ft): 55.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-40

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686577.9 **Easting:** 648944.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.9	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	4	NA	1000+			FILL	strong naphthalene-like odor 20'-23.5': Brown fine to medium sand, 10% silt, wet, coated/saturated with NAPL. Strong naphthalene-like odor	SB40 (20-23.5)_460-92568-2
24			72.4			PT	MEADOW MAT 23.5'-25'. Dark gray fibrous peat and organic clay. Wet, slight naphthalene-like odor, moderate organic odor	
26	2.5	NA	102				25'-28.5'. Dark gray fibrous peat and organic clay. Wet, strong naphthalene-like odor, 1/8" seam of NAPL at ~27'	
28								
30			28.4			SM	INTERMEDIATE SAND 28.5'-30' Grayish brown fine to medium sand, 10% silt, <5% fine to coarse gravel, wet	
32	2	NA	31.2			SW	30'-35': Brown fine to coarse sand, 10% silt, 10% fine to coarse gravel, wet, slight naphthalene-like odor	
34								
36	3.5	NA				ML	35'-36': Brown silt, wet, no odor	
38			30.7			SW	36'-40': Brown fine to coarse sand, 20% fine to coarse gravel, wet, ~1.8" seam of NAPL at 38.5 and 39.5', wet, moderate naphthalene-like odor	
40								

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-40

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686577.9 **Easting:** 648944.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 16.9	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	3	NA	40.7			SW	40'-43.5': Brown fine to coarse sand, 20% fine to coarse gravel, wet, ~1.8" seam of NAPL at 42', wet, moderate naphthalene-like odor	
44			40.4			SP	43.5'-45': Brown silty fine sand, wet, slight naphthalene-like odor	
46	3	NA	38.4			SW	GRAVELLY SAND 45'-50': Brown fine to coarse sand, 25% fine to coarse gravel, 10% silt, wet, slight naphthalene-like odor	
48								
50								
52	2.5	NA	37.7				50'-55': Brown fine to coarse sand, 25% fine to coarse gravel, 10% silt, wet, slight naphthalene-like odor	SB40 (50-55)_460-92568-3
54								

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-41

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686446.9 **Easting:** 649105.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.8	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0-0.3 Concrete	
2	NA	NA	1.6			FILL	0.3'-5': Dark brown fine to coarse sand, 25% silt, 25% fine to coarse gravel, brick fragments, cobbles, dry, no odor	
4								
6	3	NA	1.2				5'-10': Dark brown fine to coarse sand, 25% silt, 25% fine to coarse gravel, brick fragments, cobbles, dry, no odor, black layer with coal fragments at 8.5'-9'	SB41 (5-10)_460-92568-4
8								
10								
12	1.5	NA	3.2			FILL	10'-15': Dark brown fine to coarse sand, 25% silt, 25% fine to coarse gravel, brick fragments, cobbles, dry, no odor, wire fragments and cinders at 14.75'-15'	
14								
16	3	NA	11.2				15'-20': Dark gray fine to coarse sand, 10% fine to coarse gravel, 10% silt, ash, cinders, coal fragments, wood fragments, wet, slight organic odor	
18								
20								

Remarks: Boring Terminated (ft): 45.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-41

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686446.9 **Easting:** 649105.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.8	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	3.5	NA	39.1			FILL	20'-23.5': Black silt, 10% fine to coarse sand, 10% fine to coarse gravel, ash, cinders, coal fragments, wood fragments, wet, slight organic odor	
24			26.3			PT	MEADOW MAT 23.5'-28.5': Very dark gray fibrous peat and organic clay, wet, strong organic odor	
26	3	NA	17.8					
28								
30			205			SP	INTERMEDIATE SAND 28.5'-30': Brownish gray silty fine sand, wet, stained / coated with NAPL at 29.75'-30', moderate naphthalene-like odor	
32	5	NA	199				30'-32.5': Brownish gray silty fine sand, wet, stained / coated with NAPL, strong naphthalene-like odor	
34			68.1			CL	32.5'-34.5: Dark gray silty clay, wet, slight naphthalene-like odor	
36	4	NA	878			SP	34.5'-37': Gray silty fine sand, stained with NAPL, wet, strong naphthalene-like odor, saturated / coated with NAPL at 35'-37'	SB41 (35-37)_460-92568-5
38			15.5			CL	INTERMEDIATE CLAY Gray clay, moist, no odor	SB41 (38-39)_460-92568-6
40								

Remarks: Boring Terminated (ft): 45.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-41

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686446.9 **Easting:** 649105.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.8	**Drilling Company:** Zebra
Start Date: 3/31/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	4	NA	1			CL	40'-44' Gray clay, wait, no odor	
44			0.8			ML	44'-45' Brown sandy silt, wet, no odor	

Remarks: Boring Terminated (ft): 45.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-42

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686297.9 **Easting:** 649104.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.7	**Drilling Company:** Zebra
Start Date: 3/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.5' Concrete	
						FILL	FILL 0.5'-5' Dark gray fine to coarse sand, 25% fine to coarse silt, 25% fine to coarse gravel, numerous brick fragments, cobbles, dry, no odor	
2	NA	NA	1.2					
4								
6	4.5	NA	1.9				5'-10' Dark brown to dark gray fine to coarse sand, 25% silt, 25% fine to coarse gravel, numerous brick fragments, dry, no odor	
8								
10			1.3					SB42(9-10)_460-92511-1
12	3.7	NA	5.1			FILL	10'-15' Dark brown to dark gray fine to coarse sand, 25% silt, 25% fine to coarse gravel, numerous brick fragments, wet, layer of brick at 13.5'-14.5', black at 14.5'-15', no odor	
14			3.1					
16	4	NA	1.3				15'-18.5" Dark brown to dark gray fine to coarse sand, 25% silt, 25% fine to coarse gravel, numerous brick fragments, wet, no odor	
18								
20			3.7				18.5'-20': Black with cinders and wood fragments, wet, no odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-42

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686297.9 **Easting:** 649104.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.7	**Drilling Company:** Zebra
Start Date: 3/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	4	NA	3.2			FILL	20'-23.5': Black with cinders and wood fragments, wet, no odor	
24			2.7			PT	MEADOW MAT 23.5'-25': Dark gray fibrous peat and organic clay, wet, moderate organic odor	
26	3	NA	2.9				25'-29.5': Dark gray fibrous peat and organic clay, wet, moderate organic odor	
28								
30			2.8			SP	INTERMEDIATE SAND 29.5'-34.25': Gray silty fine sand, wet, moderate organic odor	
32	1.5	NA						
34			2.9			SM	34.25'-37.5: Brown silty fine sand, 10% fine gravel, wet, no odor	SB42(35-37.5)_460-92511-2
36	4	NA	34					
38						ML	37.5'-38': Brown clayey silt, wet, no odor	
						SM	38'-39.5: Brown silty fine sand, 10% fine gravel, wet, no odor	
40						SW	GRAVELLY SAND 38'-39.5': Brown fine to medium sand, 20% fine to coarse gravel, 10% silt, wet, no odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-42

Client: National Grid	**Location:** 1 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686297.9 **Easting:** 649104.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 15.7	**Drilling Company:** Zebra
Start Date: 3/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	4	NA	3.3			SW	40'-45': Brown fine to coarse sand, 20% fine to coarse gravel, 10% silt, wet, no odor	
44								
46	4	NA	3				45'-50': Brown fine to coarse sand, 20% fine to coarse gravel, 10% silt, wet, no odor	
48								
50			3.3					SB42(49-50)_460-92511-2

Remarks: Boring Terminated (ft): 50.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-43

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686442.6 **Easting:** 649308.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.3	**Drilling Company:** Zebra
Start Date: 3/26/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/26/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.3' Concrete	
						FILL	0.3'-5': Very dark brown fine to coarse sand, 25% silt, 10% fine to coarse gravel, concrete fragments, brick, fragments, dry, no odor	
2	NA	NA	0.0					
4								
6							5'-9': Dark gray fine to coarse sand, 25% silt, 25% fine to coarse gravel, brick fragments	
8	2.6	NA	5.9					SB43 (8-9)_460-92355-1
10							9'-11': Red brick, moist to wet	
			4.5					
12							11'-15': Brown silt, 10% fine to coarse sand, <5% fine gravel, wet, stained dark gray with slight fuel oil-like odor at 13'-14'	
14	2.7	NA	12.7					
			16.2					
16							15'-20': Dark gray silt, 25% fine to coarse sand, 10% fine to coarse gravel, wet, organic odor	
			14.6					
18	5	NA						
			10.6					
20								

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-43

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686442.6 **Easting:** 649308.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.3	**Drilling Company:** Zebra
Start Date: 3/26/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/26/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	4	NA	32.2			FILL	20'-23.5': Dark gray silt, 25% fine to coarse sand, 25% fine to coarse gravel, brick fragments, wet, organic odor	
24			9.1				23.5'-25': Black fine to coarse sand, 25% silt, 10% fine to coarse gravel, brick fragments, wet, organic odor	
26	4	NA	50.3				25'-26': Black fine to coarse sand, 25% silt, 10% fine to coarse gravel, brick fragments, wet, organic odor	
28						PT	MEADOW MAT 26'-28': Dark brown fibrous peat and dark gray organic clay, wet, organic odor, ~4" layer dark brown friable peat at 27.75'-28'	
30			27.4				INTERMEDIATE SAND 28'-30': Gray silty fine sand, wet, organic odor	
32	4.5	NA	28.3			SM	30'-35': Gray silty fine sand, wet, slight organic odor	
34			18.1					
36	4.5	NA	10.7			SP	35'-38.5': Gray silty fine sand, wet, no odor	
38								
40			837				38.5'-40': Gray silty fine sand, wet, coated with NAPL, sheen, strong naphthalene-like odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-43

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686442.6 **Easting:** 649308.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.3	**Drilling Company:** Zebra
Start Date: 3/26/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/26/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	5	NA	1,000+			SM	40'-45': Gray silty fine sand, wet, coated with NAPL at 40'-43', saturated with NAPL at 43'-45', strong naphthalene-like odor	
44								
46	5	NA	1000+				45'-48': Gray silty fine sand, wet, saturated with NAPL, strong naphthalene-like odor	SB43 (45-48)_460-92355-2
48								
50			31.3			CL	INTERMEDIATE CLAY 48'-50': Gray silty clay, wet, slight naphthalene-like odor	SB43 (49-50)_460-92355-3

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-44

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686531.4 **Easting:** 649383.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 3/27/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/27/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.6' Concrete	
2	NA	NA	1.1			FILL	FILL 0.6'-5': very dark brown fine to coarse sand, 25% silt, 25% fine to coarse gravel, brick fragments, concrete fragments, dry, no odor	
4								
6	3	NA	3.2				5'10': dark gray fine to coarse sand, 25% sand, 25% silt, 25% fine to coarse gravel, numerous brick fragments, moist, no odor	
8								
10								SB44 (9-10)_460-92355-5
12	3	NA	4				10'-12.5': dark gray fine to coarse sand, 25% sand, 25% silt, 25% fine to coarse gravel, numerous brick fragments, wet, no odor	
14			7.1				12.5'-15': Black fine to coarse sand, 25% sand, 25% silt, 25% fine to coarse gravel, cinders, numerous brick fragments, wet, moderate naphthalene-like odor	
16	4.5	NA	21				15'-19': Black fine to coarse sand, 25% sand, 25% silt, 25% fine to coarse gravel, cinders, numerous brick fragments, wet, slight naphthalene-like odor	
18								
20			12.5			PT	MEADOW MAT 19'-20': Dark gray organic clay, <10% fibrous peat, wet, moderate organic odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-44

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686531.4 **Easting:** 649383.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 3/27/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/27/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	3.5	NA	4.4			PT	20'-25': Dark gray organic clay, <10% fibrous peat, wet, moderate organic odor	
24								
26	3.5	NA	6.4				25'-28': Dark gray organic clay, <10% fibrous peat, wet, moderate organic odor	
28							28'-28.5': Dark brown friable peat, wet, moderate organic odor	
30			38.6			SM	INTERMEDIATE SAND 28.5'-30': Gray silty fine sand, wet, moderate organic odor	
32	5	NA	11				30'-35': Gray silty fine sand, wet, slight organic odor	
34								
36	5	NA	11.1				35'-40': Gray silty fine sand with fine sandy silt, wet, no odor	SB44 (38-40)_460-92355-6
38								
40								

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-44

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686531.4 **Easting:** 649383.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 3/27/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 3/27/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	5	NA	14.8			ML	40'-45': Dark gray fine sandy silt, wet, no odor, dark dray clayey silt in tip of sleeve	
44								
46							INTERMEDIATE CLAY 45'-50': Dark gray clayey silt / silty clay, wet, no odor	
48	5	NA	3.8			CL		
50								SB44 (49-50)_460-92355-7

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-45

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686300.4 **Easting:** 649314.9	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.1	**Drilling Company:** Zebra
Start Date: 4/29/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/29/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.4': Concrete	
							FILL 0.4'-3': Fine to coarse sand, trace fine to medium gravel, trace brick fragments, dark brown, dry, no odor	
2	NA	NA	0.3					
4			0.2				3'-5': Fine to coarse sand, 15% fine to coarse gravel, 15% brick fragments, dark brown, dry, no odor, rock at 4'	
6						FILL	5'-9.5': Fine to coarse sand, 10% brick fragments, concrete from 9'-9.5', dark brown, dry, no odor	
8	2.75	NA	0.4					
10							9.5'-10': Fine to medium sand, trace silt, moist, brownish gray, no odor	
			0.5			SW	SAND AND SILT 10'-11': Fine to coarse sand, trace large gravel, reddish brown, wet, organic odor	SB-45 (10-11)_460-94062-1
			0.6			ML	11'-11.5': Silt, black, moist, organic odor	
12							11.5'-15': Fine to coarse sand, black, swampy odor, wet	
14	2.75	NA	0.4			SW		
16							15'-18': Fine to coarse sand, poorly sorted, sheen and moderate fuel like odor from 17'-18', dark gray, wet	
18	3.83	NA	0.6					
			46.8			ML	MEADOW MAT 18'-19.5': Silt, black, moist, organic odor	SB-45 (18-20)_460-94062-2
20			816			PT	19.5'-20': Fibrous friable peat, grayish brown, organic odor, moist	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-45

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686300.4 **Easting:** 649314.9	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.1	**Drilling Company:** Zebra
Start Date: 4/29/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/29/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
						PT	20'-21': Fibrous friable peat, grayish brown, strong organic odor, moist	
22						OL	21'-23': Organic clay, 40% light tan organic fibers, soft, dark gray, strong organic odor, wet	
	4.16	NA	40.2					
24						PT	23'-24': Fibrous friable peat, dark grayish brown, strong organic odor, moist	
						OL	24'-25': Organic clay, <5% light tan organic fibers, soft, dark gray, strong organic odor, wet	
26			33.3			SW	25'-27': Fine to coarse sand, poorly sorted, sheen, slight fuel like odor, dark gray, wet	
28	5	NA	57.4			PT	27'-28': Fibrous friable peat, dark grayish brown, organic odor, moist	
			151			SM	INTERMEDIATE SAND 28'-30': Silty sand, dark gray, very slight, naphthalene-like odor, wet	
30								
32			189			SP	30'-33': Fine to medium sand, well sorted, dark gray, wet, slight organic odor, slight naphthalene-like odor	
	5	NA						
34			138			SM	33'-35': Silty sand, dark gray, slight naphthalene-like odor, wet	
36							35'-40': Silty sand, dark gray to black, slight naphthalene-like odor, wet	
	4.83	NA	202					
38								
40								

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: SB-45

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686300.4 **Easting:** 649314.9	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.1	**Drilling Company:** Zebra
Start Date: 4/29/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/29/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	4.75	NA	164			SM	40'-45': Silty sand, dark gray, very slight naphthalene-like odor, wet	
44								
46	4.75	NA	2			CL	INTERMEDIATE CLAY 45'-50' Gray silty clay, dark gray, wet, low plasticity, soft, no odor	SB-45 (45-48)_460-94062-4
48								
50								
52	5	NA	1.2				50'-55' Clay, dark gray, moist, low plasticity, medium, no odor	SB-45 (50-55)_460-94062-3
54								

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-46

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686375.4 **Easting:** 649462.7	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 5/1/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 9.5
Finish Date: 5/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.3' Concrete	
							0.3'-5': Fine to coarse sand, <5% fine gravel, 10% brick fragments, dark brown, dry, no odor	
2								
	NA	NA	0.0					
4								
							5'-6': Fine to coarse sand, <5% fine gravel, dark brown, dry, no odor	
6								
							6'-8.5': Crushed brick fragments, dry, no odor, red	
8	4	NA	0.0					
							8.5'-9.5': Crushed concrete, gray, dry, no odor	
10								
							9.5'-10': Fine to coarse sand, <5% fine gravel, <5% brick fragments, black, wet, no odor	
			0.2			FILL	10'-11': Fine to coarse sand, <5% fine to medium gravel, <5% brick fragments, brown, wet, no odor	
12							11'-15': Fine to coarse sand, 20% silt, <5% fine gravel, <5% brick fragments, black, wet, strong fuel like odor	
	2.58	NA	4.9					SB-46 (11-15)_460-94148-5
14								
16							15'-18': Fine to coarse sand, 20% silt, <5% fine gravel, <5% brick fragments, black, wet, slight fuel like odor	
			4.9					
18								
							18'-18.5': Fine to coarse sand, 20% silt, <5% fine gravel, <5% brick fragments, black, wet, no odor	
			0.4				18.5'-19': Silty sand and clay, dark gray, moist, no odor	
							19'-19.5': Black peat, moist, no odor	
20							19.5'-20': Fine to coarse sand, 20% silt, <5% brick fragments, dark gray, wet, no odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-46

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686375.4 **Easting:** 649462.7	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 5/1/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 9.5
Finish Date: 5/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	5	NA	1.6			FILL	20'-24': Fine to coarse sand, <5% brick fragments, gray, wet, no odor. From 23'-23.5' silty sand, gray, wet, no odor	
24			13.9			PT	MEADOW MAT 24'-25': Fibrous friable peat, brown, moist, strong organic odor with lenses of dark gray organic clay	
						OL	INTERMEDIATE SAND	
26	4.83	NA	96.8				25'-25.1': Organic clay, dark gray, wet, no odor 25.1'-29': Fine sand, gray, wet, slight organic odor	
28								
30							29'-35': Silty sand, gray, wet, slight organic odor	
32	2.75	NA	2.4			SM		
34								
36	5	NA	27.3				35'-40': Silty sand, dark gray, wet, slight organic odor	
38								
40								

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-46

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686375.4 **Easting:** 649462.7	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:** Zebra
Start Date: 5/1/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 9.5
Finish Date: 5/1/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	5	NA	37.8			SM	40'-43': Silty sand, dark gray, wet, slight organic odor	SB-46 (40-43)_460-94148-7
44			12.1			CL	INTERMEDIATE CLAY 43'-45': Silty clay, dark gray, wet, no odor	
46	5	NA	0.0				45'-50': Dark gray silty clay, low plasticity, medium stiffness, wet, no odor	SB-46 (45-50)_460-94148-6
48								
50								

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: SB-47

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686474.7 **Easting:** 649455.6	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.5	**Drilling Company:** Zebra
Start Date: 4/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0						Concrete	0'-0.3': Concrete	
							0.3'-5': Fine to coarse sand, <5% fine gravel, trace brick fragments, dark brown, dry, no odor	
2	NA	NA	0.0					
4								
6	4	NA	o				5'-7': Fine to coarse sand, <5% fine gravel, trace brick fragments, dark brown, dry, no odor	
8							7'-10' Crushed brick fragments, dry, no odor	
10						FILL		
12	2.5	NA	3.9				10'-14': Fine to coarse sand, 15% fine to coarse gravel, <5% silt, gray to black, wet, organic odor	SB-47 (10-14)_460-94148-1
14								
			34.3				14'-15': Fine to coarse sand, 15% fine to coarse gravel, <5% silt, gray to black, wet, slight fuel like odor	
16	3.33	NA	32.2				15'-17': Fine to coarse sand, 15% fine gravel, <5% silt, dark grayish brown, wet, moderate fuel like odor, <5% brick fragments	
18			21.7				17'-19': Fine to coarse sand, 15% fine gravel, <5% silt, dark gray, wet, moderate fuel like odor, <5% brick fragments	SB-47 (17-19)_460-94148-2
20			18.1			PT	MEADOW MAT 19':20': Black peat, moderate naphthalene-like odor, moist	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-47

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686474.7 **Easting:** 649455.6	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.5	**Drilling Company:** Zebra
Start Date: 4/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	5	NA	22.6			OL	20'-22': Fine to coarse sand, 15% fine gravel, <5% silt, dark grayish brown, wet, moderate fuel like odor, <5% brick fragments	
24			33				22'-25: Organic clay, trace shell fragments, soft, low plasticity, dark gray, moist, no odor	
26	5	NA	20.5				25'-28.5': Organic clay, dark gray, soft, low plasticity, moist, sight organic odor	
28								
30			15.6			PT	INTERMEDIATE SAND 28.5'-29: Friable peat, brown, moist, organic odor	
			15.6			SP	29'-30': Fine grained sand, gray, wet, slight organic odor	
32	4.33	NA	24.1				30'-35': Fine to medium sand, well sorted, grain sizes increases from 34.5'-35, gray, wet, organic odor, brown peat like material at 31.5'	
34								
36	5	NA	39.5				35'-39.5': Fine to medium sand, well sorted, dark gray, wet, no odor	
38								
40						SM	39.5'-40': Silty sand, dark gray, wet, no odor	

Remarks: Boring Terminated (ft): 50.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: SB-47

Client: National Grid	**Location:** 7/9 Rewe Street	
Project: Equity Former MGP Site	**Northing:** 686474.7 **Easting:** 649455.6	**Logged By:** Jennifer Savona
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.5	**Drilling Company:** Zebra
Start Date: 4/30/2015	**Drilling Method:** GeoProbe 7720 DT	**Water Level (ft):** 10
Finish Date: 4/30/2015	**Borehole Diameter:** 2	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42			23.4			SM	40'-42': Silty sand, dark gray, wet, slight organic odor	
			21.7				42'-43': Silty clay, dark gray, little to no plasticity, wet, no odor	
44			40.6				43'-45': Silty sand, dark gray, wet, no odor	
46							45'-46.5': Silty sand, dark gray, wet, no odor	
48	5 5	NA NA	0.0			CL	INTERMEDIATE CLAY 46.5'-50': Silty clay, gray, stiff, no plasticity wet, no odor	SB-47 (45-50)_460-94148-3
50								

Remarks: Boring Terminated (ft): 50.0

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AECOM Boring and Well Construction Log

BORING #: T1-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686647.3 **Easting:** 649528.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0					AS	ASPHALT 0'-0.6': ASPHALT.	
2	NA	0.0			FILL	FILL 0.6'-5': FILL: Silty, fine to coarse sand (compact at 0.6'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, brown, dry, no odor. Fabric at 2' bgs.	
4							
6	2.2'/5'	0.3				5'-9.5': FILL: SAA, moist to wet, no odor.	
8							
10		0.3				9.5'-10': FILL: Silt with fine to coarse sand, 10% fine to coarse gravel, cinders, brown, wet, no odor.	
12	3'/5'	0.3				10'-12': FILL: SAA, wet, no odor.	
14		0.3				12'-15': FILL: Silt, 25% fine sand, 10% fine to coarse gravel, brown, wet, no odor.	
16	2.5'/5'	1.5				MEADOW MAT 15'-20': FILL: SAA, wet, no odor.	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T1-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686647.3 **Easting:** 649528.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.5'/5'	15.5			PT	20'-25': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Dark grey fibrous peat with little organic clay, grading to dark brown friable peat, wet, strong hydrogen sulfide-like odor.	
24							
26		10.4				25'-26': SAA: wet, strong hydrogen sulfide-like odor.	
28	4.5'/5'	10.4			SW	INT SAND/SILTY SAND 26'-30': WELL GRADED SAND: dark grey silty find sand, wet, moderate hydrogen sulfide-like odor.	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686628.3 **Easting:** 649535.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0					AS	0'-0.6': ASPHALT.	
2	NA	0.0			FILL	0.6'-5': FILL: Silty, fine to coarse sand (compact at 0.6'-2' bgs), 25% fine to coarse gravel, numerous cobbles, concrete fragments, brown, dry, no odor. Fabric at 2' bgs.	
4							
6	1.8'/5'	0.4				5'-10': FILL: Silt, 25% fine to coarse sand, 25% fine to coarse gravel, 5% brick fragments, 5% coal fragments, greyish-brown, wet, odor.	
8							
10							
12	3.5'/5'	0.2			FILL	10'-15': FILL: Silt, 25% fine sand, 10% fine gravel, greyish-brown, wet, no odor.	
14							
16	0.7'-5'	0.2				15'-20': FILL: SAA, wet, no odor.	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686628.3 **Easting:** 649535.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4'/5'	0.3			FILL	20'-22.5': FILL: SAA, wet, no odor.	
24		12.9			PT	MEADOW MAT 22.5'-25': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous and friable peat, little organic clay, dark grey, wet, strong hydrogen sulfide-like odor.	
26	2.7'/5'	12.1				25'-28.25': FIBROUS AND FRIABLE PEAT: Friable peat, dark brown, wet, strong hydrogen sulfide-like odor.	
28							
30		7.7			SW	INT SAND/SILTY SAND 28.25'-30': WELL GRADED SAND: Silt, fine sand grading to fine to medium sand, with <10% silt, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 30.0

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AECOM Boring and Well Construction Log

BORING #: T1-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649541.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0					AS	ASPHALT 0'-0.6': ASPHALT.	
2	NA	0.0			FILL	0.6'-5': FILL: Silt, fine to coarse sand (compact at 0.6'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, small brick fragments, glass fragments, dark brown, dry, no odor. Fabric at 2' bgs.	
4							
6	3.9'-5'	0.3				5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, 5% brick fragments, greyish-brown, wet, no odor.	
8							
10							
12	2.5'-5'	0.3			FILL	10'-15': Fill: SAA, wet, no odor. Black at bottom tip of macrocore sample .	
14							
16	2.5'-5'	0.4				15'-19.5': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, dark grey, wet, no odor.	
18							
20		0.4			FILL	19.5'-20': FILL: Fine to coarse gravel, <10% fine to coarse sand, dark grey, wet, no odor.	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T1-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686609.4 **Easting:** 649541.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	0'/5'	NA			FILL	N/A 20'-25': NO RECOVERY: No recovery due to rock lodged in tip of macrocore sample tube.	
24							
26	2.5'/5'	7.5			SW	INT SAND/SILTY SAND 25'-30': WELL GRADED SAND: Silt, fine sand grading to fine to medium sand with <10% silt, 5% fine to coarse gravel, dark grey, wet, moderate hydrogen sulfide-like odor.	
28							
30							

Remarks: Boring Terminated (ft): 30.0

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AECOM Boring and Well Construction Log

BORING #: T1-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686576.3 **Easting:** 649553.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.9	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0					AS	ASPHALT 0'-0.6': ASPHALT.	
2	NA	0.0				FILL 0.6'-5': FILL: Silt, fine to coarse sand (compact at 0.6-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, dark brown, dry, no odor. Fabric at 2' bgs.	
4							
6	4.5'/5'	0.4				5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, brick fragments, 5% cinders, dark grey, moist to wet, no odor.	
8							
10					FILL	10'-15': FILL: SAA, wet, no odor. Black layer from 14'-14.25' bgs with slight naphthalene-like odor.	
12	3'/5'	4.4					
14							
16	0.8'/5'	12.4				15'-20': FILL: SAA, 5% wood fragments, wet, slight naphthalene-like odor.	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T1-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686576.3 **Easting:** 649553.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.9	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/22/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
	4'/5'	19.6			FILL	20'-21': FILL: SAA, wet, sheen, slight naphthalene-like odor.	
22		11.1			PT	MEADOW MAT 21'-25': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous and friable peat/organic clay grading to black friable peat, dark grey, wet, moderate hydrogen sulfide-like odor.	
24							
26	4'/5'	4.6				25'-26': FIBROUS AND FRIABLE PEAT: Fibrous and friable peat, dark brown, wet, moderate hydrogen sulfide-like odor.	
28		4.6			SW	INT SAND/SILTY SAND 26'-30': WELL GRADED SAND: Silt, fine sand grading, to fine to medium sand, with <10% silt, grey, wet, slight hydrogen sulfide-like odor.	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686562.1 **Easting:** 649558.0	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.6': ASPHALT.	
2	NA	0.0			FILL	FILL 0.6'-5': FILL: Silt, fine to coarse sand (compact from 0.6'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, dark brown, dry, no odor. Fabric layer at 2' bgs.	
4							
6	5'/5'	10.3				5'-9.5': FILL: SILT, fine to coarse sand, 25% fine to coarse gravel, brick fragments, 5% cinders, grey to dark grey, wet, no odor.	
8							
10		10.3				9.5'-10': FILL: Brick rubble.	
12	1.5'/5'	2.3				10'-15': FILL: SAA, wet, no odor.	
14							
16	3'/5'	19.1				15'-17': FILL: SAA, wet, no odor.	
18		9.8			PT	MEADOW MAT 17'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous and friable peat/organic clay, dark grey, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 25.0

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(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686562.1 **Easting:** 649558.0	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.6'/5'	13.4			PT	20'-22.5': FIBROUS AND FRAIBLE PEAT/ORGANIC CLAY: SAA.	
		13.4				22.5'-23.75': FIBROUS AND FRIABLE PEAT: Fibrous and friable peat, dark brown, wet, moderate hydrogen sulfide-like odor.	
24		8.7		INT SAND/SILTY SAND	SW	23.75'-25': WELL GRADED SAND: Fine to medium sand, <10% silt, <10% fine gravel, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB6

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686547.9 **Easting:** 649562.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.6': ASPHALT.	
2	NA	ND			FILL	FILL 0.6'-5': FILL: Silt, Fine to coarse sand (compact from 0.6'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, large piece of wood at 4' bgs, dark brown, dry, no odor. Fabric at 2' bgs.	
4							
6	4'/5'	1.7				5'-9.5': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, wood fragments, small brick fragments, 5% cinders, dark grey, wet, no odor.	
8							
10		1.7				9.5'-10': FILL: Brick rubble.	
12	2.5'/5'	3.1				10'-15': FILL: SAA, ash/cinders in bottom tip of macrocore sleeve, wet, no odor.	
14							
16	3'/5'	22.6				15'-17.5': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, cinders, glass fragments, black, wet, slight naphthalene-like odor.	
18		9.8			PT	MEADOW MAT 17.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, 5% shell fragments, dark grey, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T1-SB6

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686547.9 **Easting:** 649562.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	NA	7.7			PT	20'-24.25': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Friable peat interbedded with fibrous peat/organic clay, dark brown, wet, moderate hydrogen sulfide-like odor.	
24		7.6			SW	INT SAND/SILTY SAND 24.25'-25': WELL GRADED SAND: Silt, fine sand, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB7

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686533.7 **Easting:** 649567.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.9	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.6': ASPHALT.	
					FILL	FILL 0.6'-5': FILL: Silt, fine to coarse sand (compact from 0.6'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, small brick fragments, dark brown, dry, no odor.	
2	NA	0.0					
4							
6						5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, numerous brick fragments, wood fragments, 5% cinders, grey to dark grey, wet, no odor.	
8	4.5'/5'	17.0					
10							
12						10'-15': FILL: SAA, wet, no odor.	
14	3.0'/5.0'	0.6					
16		243				15'-17.5': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, cinders, glass fragments, black, wet, coated with NAPL from 17'-17.5' bgs, strong naphthalene-like odor.	T1-SB7 (16.5-17.5)
18	3.5'/5.0'	88.5			PT	MEADOW MAT 17.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, dark grey, wet, small stringers of NAPL to 19' bgs., strong naphthalene-like odor.	
20							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB7

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686533.7 **Easting:** 649567.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.9	**Drilling Company:** Zebra
Start Date: 5/16/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.5'/5.0'	12.2			SW	INT SAND/SILTY SAND 20'-25': WELL GRADED SAND: Silt, fine sand, grey, wet, moderate hydrogen sulfide-like odor.	T1-SB7 (22-23)
24							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB8

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686519.6 **Easting:** 649572.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.7': ASPHALT	
2	NA	0.4			FILL	FILL 0.7'-5': FILL: Silt, fine to coarse sand (compact from 0.7' to 2.5' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, 5% coal fragments, dark grey, dry, no odor. Plastic map at 2' bgs.	
4							
6	4'/5'	3.8				5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, numerous brick fragments, 5% cinders, wood fragments, dark grey/black, moist to wet, no odor.	
8						SAA	
10		3.6					
12	3.5'/5'	5.1				10'-15': FILL: Silt, fine to coarse sand, 15% fine to coarse gravel, small brick fragments, wood fragments, 5% cinders, dark grey, wet, no odor. Black in tip of macrocore sample sleeve with strong naphthalene-like odor.	
14							
16	3.5'/5.0	434				15'-18.5': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, wood fragments, glass fragments, black, wet, saturated with NAPL from 18'-18.5' bgs.	
18							T1-SB8 (17-18.5)
20		81.0			PT	MEADOW MAT 18.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/5% fibrous peat, dark grey, wet, NAPL stringers, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB8

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686519.6 **Easting:** 649572.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20		161			PT	20'-23': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, dark grey, wet, NAPL stringers to 21' bgs, strong naphthalene-like odor, hydrogen sulfide-like odor from 21'-23' bgs.	
22		11.1				23'-23.5': FIBROUS AND FRIABLE PEAT: FRIABLE PEAT, dark brown, wet, moderate hydrogen sulfide-like odor.	
24		8.6			SW	INT SAND/SILTY SAND 23.5'-25': WELL GRADED SAND: Fine to medium sand, <10% fine gravel, grey, wet, moderate hydrogen sulfide-like odor.	T1-SB8 (23-24)

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T1-SB9

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686500.6 **Easting:** 649579.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.7: ASPHALT.	
2	NA	0.0			FILL	FILL 0.7'-5': FILL: Silt, fine to coarse sand (compact from 1'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, 5% coal fragments, dark grey, dry, no odor. Plastic mat at 2' bgs..	
4							
6	5'/5'	1.9				5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, concrete fragments, numerous brick fragments, 5% cinders, dark grey/black, moist to wet, no odor.	
8		17.4					
10							
12	1.5'/5'	19.2				10'-15': FILL: SAA, wet, no odor. Black in tip of macrocore sample sleeve with strong naphthalene-like odor.	
14							
16	3'/5'	382				15'-18': FILL: Silt, fine to coarse sand, 10% fine gravel, cinders, black, wet, coated with NAPL, strong naphthalene-like odor.	T1-SB9 (15-18)
18							
20		11.6			PT	MEADOW MAT 18'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, dark grey, wet, moderate hydrogen sulfide-like odor.	T1-SB9 (18-20)

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB9

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686500.6 **Easting:** 649579.2	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22		9.8			PT	20'-23.25': FIBROUS AND FRIABLE/ORGANIC CLAY: ORGANIC CLAY, 5% fibrous/friable peat, dark grey clay, dark brown peat, wet, moderate hydrogen sulfide-like odor. Dark brown friable peat from 23'-23.25' bgs.	
24		6.6		INT SAND/SILTY SAND	SW	23.25'-25': WELL GRADED SAND: fine to medium sand, <10% silt, <10% fine gravel, grey, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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AECOM Boring and Well Construction Log

BORING #: T1-SB10

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686481.7 **Easting:** 649585.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.7	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.7': ASPHALT	
2	NA	0.0			FILL	FILL 0.7'-5': FILL: Silt, fine to coarse sand (compact from 1'-2' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, 5% coal fragments, dark grey, dry, no odor. Plastic mat at 2' bgs.	
4							
6	5'/5'	2.6				5'-9': FILL: SAA, 5% cinders, brick rubble from 8.5'-9' bgs, moist to wet, no odor.	
8							
10		180				9'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cinders, coal fragments, brick fragments, glass fragments, black, wet, strong naphthalene-like odor.	
12	1.5'/5'	35.7				10'-15': FILL: SAA, wet, sheen, moderate naphthalene-like odor.	
14							
16	1'/5'	31.6				15'-20': FILL: SAA, wet, sheen, moderate naphthalene-like odor.	
18							
20							

Remarks: Boring Terminated (ft): 25.0

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(Continued Next Page)

Boring and Well Construction Log

BORING #: T1-SB10

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686481.7 **Easting:** 649585.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.7	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
	4'/5'	32.1			FILL	20'-21': FILL: SAA, wet, sheen, moderate naphthalene-like odor.	
22		11.6			PT	MEADOW MAT 21'-23': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay, 5% fibrous peat, dark grey, wet, moderate hydrogen sulfide-like odor, dark brown friable peat layer from 22.75'-23' bgs.	
24		9.9			SW	INT SAND/SILTY SAND 23'-25': WELL GRADED SAND: fine to medium sand, <10% silt, <10% fine gravel, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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AECOM Boring and Well Construction Log

BORING #: T2-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686467.7 **Easting:** 649590.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-5': FILL: Silt, fine to coarse sand (compact from 1'-2.5' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, small brick fragments, coal fragments, dark grey, dry, no odor, plastic fabric at 2.5' bgs.	
4							
6	4'/5'	5.7				5'-9': FILL: SAA, moist to wet, no odor.	
8							
10		344				9'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, brick fragments, cinders, black, wet, strong naphthalene-like odor.	
12	2.2'/5'	312			FILL	10'-15': FILL: SAA, wet, strong naphthalene-like odor.	
14							
16						15'-20': FILL: SAA, wet, numerous NAPL blebs, strong naphthalene-like odor, macrocore sample sleeve stained yellow.	
18	2'/5'	503					T2-SB1 (15-20)
20							

Remarks: Boring Terminated (ft): 25.0

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Boring and Well Construction Log

BORING #: T2-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686467.7 **Easting:** 649590.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	5'/5'	14.4			PT	MEADOW MAT 20'-24': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay, 5% fibrous peat, 5% shell fragments, dark grey, wet, moderate hydrogen sulfide-like odor, thin layer dark brown friable peat at 24'.	T2-SB1 (21-22)
24		9.1			SW	INT SAND/SILTY SAND 24'-25': WELL GRADED SAND: Fine to medium sand, <10% silt, grey, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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AECOM Boring and Well Construction Log

BORING #: T2-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686444.1 **Easting:** 649598.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-5': FILL: Silt, fine to coarse sand (compact from 1'-2' bgs), 25% fine to coarse gravel, numerous cobbles, concrete fragments, small brick fragments, dark grey, dry, no odor.	
4							
6	4.4'/5'	2.2				5'-8': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, small brick fragments, grey to dark grey, moist to wet, no odor.	
8						8'-9': FILL: Brick rubble.	
10		406				9'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, brick fragments, black, strong, naphthalene-like odor.	
12	0'/5'	NA				10'-15': FILL: No Recovery.	
14							
16	1'/5'	284				15'-20': FILL: SAA (9'-10' bgs), with cinders, wet, strong naphthalene-like odor, peat in tip of macrocore sample sleeve.	
18							
20							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: T2-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686444.1 **Easting:** 649598.7	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.2'/5'	18.4			PT	MEADOW MAT 20'-24.5': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay, 5% fibrous peat, dark grey, wet, moderate hydrogen sulfide-like odor, dark brown friable peat from 24.2'-24.5' bgs.	
24		10.2			SM	INT SAND/SILTY SAND 24.5'-25': SILTY SAND: Silt, fine sand, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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AECOM Boring and Well Construction Log

BORING #: T2-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686420.4 **Easting:** 649606.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.2	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-5': FILL: Silt, fine to coarse sand (compact from 1'-2.5' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, dark brown, dry, no odor. Plastic mat at 2.5' bgs.	
4							
6	4'/5'	21.1				5'-9': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, brick fragments, grey, moist, no odor.	
8							
10		560			FILL	9'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cinders, sheen, strong naphthalene-like odor.	
12	1.8'/5'	392				10'-15': FILL: Silt, fine to coarse sand, 15% fine to coarse gravel, black, wet, sheen, strong naphthalene-like odor.	
14							
16	3'/5'	NR				15'-17.5': FILL: SAA, with cinders, wet, strong naphthalene-like odor.	
18		NR			PT	MEADOW MAT 17.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, 5% shell fragments, dark grey, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 25.0

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(Continued Next Page)

Boring and Well Construction Log

BORING #: T2-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686420.4 **Easting:** 649606.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.2	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 6
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.5'/5'	10.4			PT	20'-24.5': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, dark grey, wet, moderate hydrogen sulfide-like odor, dark brown friable peat from 24.1' -24.3' bgs.	
24		8.7			SM	INT SAND/SILTY SAND 24.5'-25': SILTY SAND: Silt, fine sand, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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AECOM Boring and Well Construction Log

BORING #: T2-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.8 **Easting:** 649614.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.2	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-5': FILL: Silt, fine to coarse sand (compact from 1'-3' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, dark brown, dry, no odor.	
4							
6	4'/5'	451				5'-10': FILL: Silt, fine to coarse sand, 20% fine to coarse gravel, cinders, brick fragments, glass fragments, metal fragments, black,	T2-SB4 (5-10)
8							
10							
12	1.5'/5'	334			FILL	10'-15': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, brick fragments, glass fragments, metal fragments, grey to black, wet, strong naphthalene-like odor.	
14							
16	2'/5'	388				15'-19': FILL: SAA, wet, strong naphthalene-like odor.	
18							
20		11.1			PT	MEADOW MAT 19'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/peat, dark grey, wet, hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T2-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686396.8 **Easting:** 649614.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.2	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	2.5'/5'	12.9			PT	20'-23.5': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat, dark grey, wet, moderate hydrogen sulfide-like odor, dark brown friable peat from 23.3-23.5' bgs.	
24				INT SAND/SILTY SAND	SM	23.5'-25': Silt, fine sand grading to fine sand, <10% silt, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T2-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686373.3 **Easting:** 649623.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-5': FILL: Silt, fine to coarse sand (compact from 1'-3' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, brick fragments, dark brown, dry, no odor. Plastic mat at 2.5' bgs.	
4							
6	3.5'/5'	1.3				5'-8.5': FILL: SAA, wet, no odor.	
8							
10		4.9			FILL	8.5'-10': FILL: Silt, fine to coarse sand, cinders, glass fragments, coal fragments, black, wet, no odor.	
12	2.5'/5'	3.8				10'-15': FILL: Silt, fine to coarse sand grading to sandy silt, cinders, brick fragments, glass fragments, dark grey, wet, no odor.	
14							
16	3.5'/5'	2.9				15'-18.5': FILL: SAA, wet, no odor.	
18							
20		15.1			PT	MEADOW MAT 18.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, 5% shell fragments, dark grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T2-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686373.3 **Easting:** 649623.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 5/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.5'/5'	17.7			PT	20'-24.5': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay, 10% friable peat, dark brown friable peat from 24.25'-24.5' bgs, wet, moderate hydrogen sulfide-like odor.	
24		8.8			SW	INT SAND/SILTY SAND 24.5'-25': WELL GRADED SAND: Fine to medium sand, 10% fine gravel, <10% silt, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T3-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686285.3 **Easting:** 649442.0	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 4.5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.4': ASPHALT.	
2	NA	0.0				FILL 0.4'-5': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cobbles, numerous brick fragments, concrete fragments, brown, dry, wet at 4.5' bgs, no odor.	
4							
6	2.7'/5'	1.2			FILL	5'-10': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cinders, brick fragments, layer of ash from 0.5'-8.7' bgs, grey to black, wet, no odor.	
8							
10							
12	2.5'/5'	1.7				10'-14.5': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, ash/cinders from 14'-14.75', black, wet, no odor.	
14							
16	3.5'/5'	13.8			PT	MEADOW MAT 14.5'-15': FIBROUS AND FRIABLE PEAT: Friable peat, dark brown, wet, moderate hydrogen sulfide-like odor. 15'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, dark grey, wet, moderate hydrogen sulfide-like odor.	
18							
20							

Remarks: Boring Terminated (ft): 25.0

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(Continued Next Page)

Boring and Well Construction Log

BORING #: T3-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686285.3 **Easting:** 649442.0	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 4.5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4'/5'	12.6			PT	20'-22.5': FIBROUS AND FRAIBLE PEAT/ORGANIC CLAY: SAA, wet, moderate hydrogen sulfide-like odor. 22.5'-23.5': FIBROUS AND FRIABLE PEAT: Friable peat, dark brown/black, wet, strong hydrogen sulfide-like odor.	
24		8.8		INT SAND/SILTY SAND	SW	23.5'-25': WELL GRADED SAND: Fine to medium sand, <10% silt, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T3-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686294.1 **Easting:** 649470.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			CN	CONCRETE 0'-0.4': CONCRETE, dry.	
2	NA	0.0			FILL	FILL 0.4'-5': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cobbles, numerous brick fragments, concrete fragments, brown, dry, wet at 4.5' bgs, no odor.	
4							
6	4'/5'					5'-6.5': FILL: SAA, wet, no odor.	
8		1.2				6.5'-8.5': FILL: Silt and coal, 10% fine to coarse sand, 5% fine to coarse gravel, 5% glass fragments, black, dry, no odor.	
10		1.1				8.5'-10': FILL: Silt, 10% fine to coarse sand, 10% fine to coarse gravel, grey, wet, no odor.	
12	4'/5'	1.0				10'-15': FILL: Silt, fine to coarse sand, 20% fine to coarse gravel, 20% cinders/ash, 5% coal fragments, brick fragments, at 13.5' bgs, dark grey/black, wet, no odor.	
14		1.2					
16	4'/5'	1.2				15'-17': FILL: SAA, wet, no odor.	
18		15.6			PT	MEADOW MAT 17'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, dark grey, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T3-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686294.1 **Easting:** 649470.8	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.0	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	ND/5'	13.6			PT	20'-23': FIBROUS AND FRIABLE PEAT/ORANIC CLAY: Fibrous peat/organic clay, dark grey, wet, moderate hydrogen sulfide-like odor.	
24						23'-24': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Friable peat/organic clay, dark brown, wet, moderate hydrogen sulfide-like odor.	
		3.3		INT SAND/SILTY SAND	SW	24'-25': WELL GRADED SAND: Fine to medium sand, <10% silt, grey, wet, slight hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T3-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686315.1 **Easting:** 649528.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	CONCRETE 0'-1': ASPHALT AND CONCRETE, multiple layers, stone/gravel base.	
2	NA	0.0			FILL	FILL 1'-3.5': FILL: Silt, fine to coarse sand, 25% fine to coarse gravel, cobbles, brick fragments, concrete fragments, brown, dry, no odor.	
4		2.1				3.5'-4.5': FILL: Slag, grey, no odor.	
						4.5'-5': FILL: Silt, fine to coarse sand, 10% fine to coarse gravel, brown, moist, no odor.	
6	3.3'/5'	1.6				5'-9.5': FILL: Silt, 20% fine to coarse sand, 10% fine to coarse gravel, brick fragments, layer of coal from 7.5'-7.7' bgs, glass fragments, brown/grey, wet, slight naphthalene-like odor within coal layer.	
8							
10		4.1				9.5'-10': FILL: Ash, glass fragments, grey, wet, slight naphthalene-like odor.	
12	3.5'/5'	1.2				10'-13.5': FILL: Silt, fine to coarse sand, 10% fine gravel, coal fragments, glass fragments, brick fragments, <5% ash, black, wet, no odor.	
14		1.1				13.5'-15': FILL: Silt, 10% fine to coarse sand, 5% coal fragments, ash in tip of macrocore sample sleeve, greyish brown, wet, no odor.	
16	3'/5'	1.1				15'-17.5': FILL: Ash and cinders, 30% fine to coarse sand, 20% fine gravel, small brick fragments, coal fragments, glass fragments, black, wet, no odor.	
18		12.8			PT	MEADOW MAT 17.5'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Organic clay/fibrous peat grading to friable peat, grey and dark brown, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T3-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686315.1 **Easting:** 649528.6	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Zebra
Start Date: 5/15/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	1.5'/5'	4.5			PT		
24		3.6			SW	INT SAND/SILTY SAND NA	
26							
28							
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T3-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686323.4 **Easting:** 649556.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 4.5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT.	
2	NA	0.0			FILL	FILL 1'-4': FILL: Silt, fine to coarse sand (compact from 0.6'-1.5' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, glass fragments, dark brown, dry, no odor. Fabric at 2' bgs.	
4						4'-5': FILL: Silt, fine to coarse sand, 10% fine gravel, dark brown, wet at 4.5' bgs, no odor.	
6	3'/5'	1.2				5'-9': FILL: Silt, fine to coarse sand, 20% fine to coarse gravel, small concrete fragments, greyish brown, wet, no odor.	
8							
10		38.8				9'-10': FILL: Fine to coarse sand/cinders, <10% fine to coarse gravel, coal fragments, black, wet, moderate naphthalene-like odor, sheen.	
12	2.8'/5'	7.9				10'-15': FILL: SAA, wet, no odor, sheen.	
14							
16	4'/5'	4.9				15'-17': FILL: SAA, wet, no odor, sheen.	
18		16.5			PT	MEADOW MAT 17'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, dark brown, wet, moderate hydrogen sulfide-like odor.	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T3-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686323.4 **Easting:** 649556.1	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 4.5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	0'/5'	NA			NR	20'-25': No Recovery.	
24							
26	3.5'/5'	1.4			SM	INT SAND/SILTY SAND 25'-30': SILTY SAND: Silt, fine sand, grey, wet, slight hydrogen sulfide-like odor.	
28							
30							

Remarks: Boring Terminated (ft): 30.0

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AECOM Boring and Well Construction Log

BORING #: T3-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686334.1 **Easting:** 649583.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT.	
					FILL	FILL 0.75'-5': FILL: Silt, fine to coarse sand (compact from 0.75'-1.5' bgs), 25% fine to coarse gravel, cobbles, concrete fragments, glass fragments, dark brown, dry, no odor. Plastic fabric at 2' bgs.	
2	NA	0.0					
4							
6						5'-9': FILL: Silt, fine to coarse sand, 20% fine to coarse gravel, small brick fragments, greyish brown, wet, no odor.	
	3.5'/5'	1.5					
8							
10						9'-10': FILL: Fine to coarse sand/cinders, coal fragments, glass fragments, black, wet, slight naphthalene-like odor, sheen.	
						10'-15': FILL: SAA, wet, sheen, no odor.	
12							
	2.5'/5'	6.1					
14							
16						15'-17': FILL: SAA, wet, sheen, no odor.	
		3.1					
18	3'/5'					MEADOW MAT 17'-20': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Fibrous peat/organic clay, dark grey, wet, moderate hydrogen sulfide-like odor.	
		12.1			PT		
20							

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T3-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686334.1 **Easting:** 649583.9	**Logged By:** S. Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Zebra
Start Date: 5/19/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 5
Finish Date: 5/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 25.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3'/5'	15.5			PT	20'-24.5': FIBROUS AND FRIABLE PEAT/ORGANIC CLAY: Friable peat/organic clay, dark grey to dark brown, wet, moderate hydrogen sulfide-like odor.	
24		12.4			SW	INT SAND/SILTY SAND 24.5'-25': Fine to medium sand, <10% silt, grey, wet, moderate hydrogen sulfide-like odor.	

Remarks: Boring Terminated (ft): 25.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T4-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686363.9 **Easting:** 649694.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
2	NA	0.2			FILL	FILL 0.75'-5': FILL: Fine to coarse sand, 25% medium to coarse gravel, brown, dry, no odor.	
4		0.3					
6						5'-10': FILL: Fine to coarse sand, 10% medium to coarse gravel, dark gray, wet, no odor, no sheen	
8	3.4'/5'	0.3			FILL		
10							
12						10'-15': FILL: Fine to coarse sand, 25% medium gravel, dark gray, wet, no odor, no sheen	
14	1'/5'	0.4					
16						MEADOW MAT 15'-20': ORGANIC CLAY: Organic clay, 5% light tan vegetative fibers, <5% shell fragments, very soft, medium plasticity, dark gray, moist, slight swamp like odor	
18	1.9'/5'	0.5			OH		
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T4-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686363.9 **Easting:** 649694.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	2.75'/5'	1.8			OH	20'-24': ORGANIC CLAY: SAA	
24		40.2			PT	24'-25': FIBROUS AND FRIABLE PEAT: Fibrous and friable peat, brown, moist, slight organic like odor	
		2.1			SW	INT SAND/SILTY SAND 25'-25.5': WELL GRADED SAND: Fine to coarse sand, well graded, dark gray, wet, no odor, no sheen	
26						25.5'-30': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, no odor, no sheen	
28	4'/5'	2.1			SP		
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T4-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686372.1 **Easting:** 649718.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
						FILL 0.75'-5': FILL: Fine to coarse sand, 25% medium to coarse gravel, 5% brick fragments and cobbles, brown, dry, no odor	
2	NA						
4							
6		4.1				5'-8': FILL: Fine to coarse sand, 15% coarse gravel, 5% brick fragments, brown, dry, no odor	
8	2.9'/5'						
		4.1			FILL	8'-10': FILL: Fine sand, <5% coarse sand, <5% brick fragments, black, moist, no odor	
10							
12						10'-15': FILL: Fine to coarse sand, 10% fine to medium gravel, 5% clay, gray, wet, no odor, no sheen	
	3.5'/5'	1.6					
14							
16		2.3				15'-16': FILL: SAA	
						MEADOW MAT 16'-20': ORGANIC CLAY: Organic clay, 20% shell fragments, 10% light tan vegetative fibers, soft, low plasticity, dark gray, moist, slight swamp like odor	
18	4.8'/5'	2.1			OH		
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T4-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686372.1 **Easting:** 649718.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/21/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.75'/5'	1.8			OH	20'-24.5': ORGANIC CLAY: Organic clay, 5% whole shells, soft, medium plasticity, dark gray, moist, swamp like odor	
24		5.5			PT	24.5'-25': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
26	4.25'/5'	38.4			SM	INT SAND/SILTY SAND 25'-26': SILTY SAND: Fine sand, 25% silt, dark gray, wet, swamp like odor, no sheen	
28		38.4			SP	26'-30': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, slight swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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AECOM Boring and Well Construction Log

BORING #: T4-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686380.4 **Easting:** 649740.8	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
						FILL	
2		0.3				0.75'-5': FILL: Fine to coarse sand, 40% fine to coarse gravel, 15% cobbles, 5% brick fragments, brown, dry	
	NA						
4		0.6					
6						5'-10': FILL: Fine to coarse sand, 10% fine gravel, 5% brick and concrete fragments, brown to black, wood chips from 9' to 9.5', dry, cedar like odor	
	5'/5'	280					
8							
10					FILL		
12						10'-15': FILL: SAA, no wood chips, black to dark gray, wet, no odor, no sheen	
	2.9'/5'	6.2					
14							
16		4.4				15'-17': FILL: SAA	
	2.8'/5'					MEADOW MAT	
18		1.6			OH	17'-20': ORGANIC CLAY: Organic clay, 15% shell fragments, <5% whole shells, soft, low plasticity, friable, dark gray, moist, slight swamp like odor	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T4-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686380.4 **Easting:** 649740.8	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/14/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.1'/5'	3.5			OH	20'-24.5': ORGANIC CLAY: SAA, <5% shell fragments and light tan vegetative fibers	
24		7.4			PT	24.5'-25': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
26	4.8'/5'	1.5			OH	25'-26': ORGANIC CLAY: Organic Clay, <5% coarse sand, soft, medium plasticity, dark gray, wet, slight swamp like odor, no sheen	
28		38.9			SP	INT SAND/SILTY SAND 26'-30': POORLY GRADED SAND: Fine to medium sand, poorly graded, light gray, wet, slight swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T4-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686388.7 **Easting:** 649764.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 10/13/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.4': ASPHALT	
2	NA	0.2			FILL	FILL 0.4'-3': FILL: Silty Sand, 60% fine to coarse sand, 30% silt, 10% fine to coarse angular gravel and brick fragments, dark brown, dry, no odor	
4		0.1				3'-5': FILL: SAA, dark gray	
6	3.6'/5'	2.7				5'-9.8': FILL: Fine to coarse sand, 20% fine to medium gravel, 5% brick and concrete fragments, brown, dry, no odor	
8							
10		2.7				9.8'-10': FILL: Wood chips, black, dry, no odor 10'-15': FILL" Fine to coarse sand, 10% fine gravel, <5% brick fragments, <5% silt, black, wet , no odor, no sheen	
12	3.25'/5'	0.0					
14							
16		0.0				15'-16': FILL: SAA, piece of glass in material	
18	4.8'/5'	0.0				MEADOW MAT 16'-18': ORGANIC CLAY: Organic clay, 10% shell fragments, 5% light brown vegetative fibers, soft, medium plasticity, dark gray, moist, slight swamp like odor	
20		0.0			OH	18'-20': ORGANIC CLAY: SAA, no shell fragments or vegetative fibers	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T4-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686388.7 **Easting:** 649764.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 10/13/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.6'/5'	2.4			OH	20'-25': ORGANIC CLAY: SAA, <5% whole shells.	
24							
26	4.4'/5'	4.9			SP	INT SAND/SILTY SAND 25'-29': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, no odor, no sheen	
28							
30		2.6			SM	29'-30': SILTY SAND: Silty sand, dark gray, wet, no odor, no sheen	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

BORING #: T4-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686397.0 **Easting:** 649788.0	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.1	**Drilling Company:** Zebra
Start Date: 10/13/2014	**Drilling Method:** Macrocore	**Water Level (ft):** NA
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 8.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.5': ASPHALT	
		0.1			FILL	FILL 0.5'-2.5': FILL: Organic rich silty sand, 65% sand, 30% silt, 5% gravel and brick fragments, dry, no odor	
2	NA						
		0.1				2.5'-5': FILL: Silty sand, 75% fine to coarse sand, 20% silt, 5% rounded gravel, brown to yellowish brown, dry, no odor	
4							
6						5'-8': FILL: Fine to coarse sand, 10% medium to coarse gravel, 5% brick fragments, brown, dry, no odor. Pulverized concrete at 8'bgs, Refusal	
	3'/3'	0.4					
8							

Remarks: Boring Terminated (ft): 8.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T4-SB6

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686403.8 **Easting:** 649807.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 10/13/2014	**Drilling Method:** Macrocore	**Water Level (ft):** NA
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 8.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	0'-0.5': ASPHALT	
		0.1			FILL	0.5'-2.5': FILL: Silty sand, 60% fine to coarse sand, 30% silt, <10% fine gravel and brick fragments, 3"-4" boulder at 2' bgs, brown, dry, no odor	
2	NA						
		0.2				2.5-5': FILL: Silty sand, 75% fine to coarse sand, 20% silt, 5% rounded gravel, brown to yellowish brown, dry, no odor	
4							
						5'-8': FILL: Fine to coarse sand, 15% medium gravel, 10% brick fragments, brown, dry, no odor. Pulverized concrete at 8'bgs, Refusal	
6	3'/3'	0.0					
8							

Remarks: Boring Terminated (ft): 8.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686599.1 **Easting:** 649868.1	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand, 30% fine to coarse gravel, 15% cobbles, <5% brick fragments, brown, dry, no odor.Plastic mesh at 2' bgs.	
4							
6	4.75'/5'	0.3			FILL	5'-9': FILL: Fine to coarse sand, 15% coarse gravel, 5% brick fragments, brown, wet at 7' bgs, no odor, no sheen	
8							
10		0.2				9'-10': FILL: Fine to medium sand,	
	5'/5'	0.5				10'-11': FILL: Fine to coarse sand, 20% coarse gravel, <5% brick fragments, brown, wet, no odor, no sheen	
12		0.5				11'-13.5': Fine to medium sand, 20% silt, 10% coarse gravel, dark gray, wet, no odor, no sheen	
14		0.5				13.5'-14': FILL: Brick fragments	
		16.5			PT	MEADOW MAT 14'-15': FIBROUS FRIABLE PEAT: Fibrous friable peat, stained black, moist, slight fuel like odor	
16		11.0				15'-16': FIBROUS FRIABLE PEAT: SAA, less staining	
	3.6'/5'	1.8			OH	16'-17': ORGANIC CLAY: Organic clay, 40% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, slight swamp like odor	
18		1.8				17'-20': ORGANIC CLAY: SAA, <5% vegetative fibers, <5% shell fragments	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686599.1 **Easting:** 649868.1	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.4	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.5'/5'	0.4			SP	INT SAND/SILTY SAND 20'-23': POORLY GRADED SAND: Fine to medium sand, <5% coarse sand, poorly graded, brown, wet, no odor, no sheen	
24		0.4			SW	23'-24': WELL GRADED SAND: Fine to coarse sand, <5% coarse gravel, well graded, grayish brown, wet, slight swamp like odor, no sheen	
		13.0			SP	24'-25': POORLY GRADED SAND: Fine to medium sand, <5% clay, poorly graded, dark gray, wet, slight swamp like odor, no sheen	
26	4.4'/5'	2.1			SW	25'-29': WELL GRADED SAND: Fine to coarse sand, <5% coarse gravel, well graded, grayish brown, wet, slight swamp like odor, no sheen	
28							
30		0.1			SP	29'-30': POORLY GRADED SAND: Fine to medium sand, 5% coarse sand, dark gray, wet, slight swamp like odor, no sheen	

Remarks: Boring Terminated (ft): 30.0

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AECOM Boring and Well Construction Log

BORING #: T5-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686613.3 **Easting:** 649863.2	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.5	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 15
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand and gravel, 30% cobbles, 5% brick fragments, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	2.75'/5'	1.0				5'-8': FILL: Fine to coarse sand, 20% fine gravel, brown, dry, no odor	
8		1.0				8'-8.5': FILL: Brick fragments	
10		0.7				8.5'-10': FILL: Fine to medium sand, poorly graded, light brown, moist, no odor	
12	0'/5'				NR	No Recovery	
14							
16	3.9'/5'	0.8			FILL	15'-15.8': FILL: Chunks of red coarse gravel and fine to coarse sand, brown, wet, no odor, no sheen	
18		4.8			OH	MEADOW MAT 15.8'-18': ORGANIC CLAY: Organic clay, 40% large light tan vegetative fibers, dark gray, moist, slight swamp like odor	
		189			SC	18'-18.5': CLAYEY SAND: Clayey sand, stained black, moist, strong naphthalene-like odor, sand grains coated with NAPL	T5-SB2(18-19)
20		189 12.6			OH	18.5'-19': ORGANIC CLAY: Organic Clay, stained black, moist, strong naphthalene-like odor, bleb of NAPL at 18.5' bgs 19'-20': ORGANIC CLAY: Organic clay, 10% light tan vegetative fibers, dark gray, moist, swamp like odor	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686613.3 **Easting:** 649863.2	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.5	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 15
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
	3.25'/5'	5.0			SW	INT SAND/SILTY SAND 20'-20.5': WELL GRADED SAND: Fine to coarse sand and gravel, gravel is red and 1"-2" in diameter, wet, no odor, no sheen	
		5.0			SP	20.5'-21.5': POORLY GRADED SAND: Fine to medium sand, black, wet, moderate naphthalene like odor, coated and stained	
22		4.4			OH	21.5-24': ORGANIC CLAY: Organic clay, <5% vegetative light tan fibers, soft, low plasticity, dark gray, moist, swamp like odor	T5-SB2(21.5-25)
24		4.4			OH/PT	24'-25': FIBROUS FRIABLE PEAT & ORGANIC CLAY: Fibrous friable peat and organic clay mixture, low plasticity, dark gray, moist, swamp like odor	
26	3.75'/5'	113			PT	25'-26': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
28		123			SC	26'-28': CLAYEY SAND: clayey sand, dark gray, moist, slight swamp like odor	
30		13.0			SP	28'-30': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, no odor, no sheen	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

BORING #: T5-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686627.4 **Easting:** 649858.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 14.5
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA			AS	ASPHALT 0'-0.75': ASPHALT	
2	NA	0.0			FILL	FILL 0.75'-5': FILL: Fine to coarse sand and gravel, 30% cobbles, 10% brick fragments, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	3.5'/5'	0.4				5'-9': FILL: Fine to Coarse sand, 10% fine to medium gravel, <5% brick fragments, brown, dry, no odor	
8							
10		0.8 0.8				9'-9.5': FILL: Fine to medium sand, poorly graded, light brown, dry, no odor 9.5'-10': FILL: Fine to coarse sand, 25% medium gravel, chunks of red to red orange brick, dry, no odor	
12	1.5'/5'	1.0				10'-14.5': FILL: SAA, 40% brick fragments	
14							
		0.9				MEADOW MAT 14.5-15': ORGANIC CLAY: Organic clay, 40% light tan vegetative fibers, soft, low plasticity, dark gray, moist, slight organic like odor (material in shoe)	
16	1.4'/5'	3.6			OH	15'-20': ORGANIC CLAY: Organic clay, 25% light tan vegetative fibers, dark gray, moist, slight to moderate swamp like odor. 1" chunks of red gravel at beginning and end of core	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686627.4 **Easting:** 649858.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 14.5
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	4.5'/5'	2.0			OH	20'-24.8': ORGANIC CLAY: Organic clay, 25% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, slight swamp like odor	
22		10.9					
24		10.9			OH/PT	24.8'-25': ORGANIC CLAY/PEAT: Organic clay and peat mixture, friable, fibrous, dark gray to black, moist, slight swamp like odor	
	4.75'/5'	2.7			SW	25'-25.4': WELL GRADED SAND: Fine to coarse sand and gravel, <5% clay, dark brown, wet, no odor, no sheen.	
26		2.7			PT	25.4'-26': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, moderate swamp like odor	
		5.5			OH	26'-27': ORGANIC CLAY: Organic clay, 10% reddish brown vegetative fibers, dark gray, moist, moderate swamp like odor	
28		2.5			SC	27'-29': CLAYEY SAND: Clayey sand, low plasticity, dark gray, wet, swamp like odor, no sheen	
30		2.5			SP	29'-30': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, slight swamp like odor, no sheen	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686641.6 **Easting:** 649853.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 11
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
2	NA	0.0			FILL	FILL 0.75'-5': FILL: Fine to coarse sand and gravel, 30% cobbles, 10% brick fragments, dark brown, dry, no odor, plastic mesh at 2' bgs	
4							
6	3.1'/5'	1.2				5'-8': FILL: Fine to coarse sand, 15% fine gravel, 5% brick fragments, brown, dry, no odor	
8		1.2					
		1.2				8'-8.2': Chunks of brick, no odor 8.2'-9.5':FILL: Fine to medium sand, trace coarse sand, well graded, light brown, dry, no odor	
10		1.2				9.5'-10': Brick fragments, dry, no odor	
		2.6				10'-10.5': FILL: SAA, coarse sand and 5% mortar	
		2.6				10.5'-11': FILL: Fibrous friable peat, <5% black plastic throughout, moist, slight swamp like odor	
12	3.25'/5'	2.0			OH/PT	MEADOW MAT 11'-13': ORGANIC CLAY/PEAT: Organic clay and peat, very fibrous, reddish brown fibers, medium stiff, medium plasticity, dark gray, moist, no odor	
14		2.0				13'-15': ORGANIC CLAY: Organic clay, 50% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, no odor	
16	3.4'/5'	3.2			OH	15'-20': ORGANIC CLAY: Organic clay, 10% shell fragments throughout (at 15.5', 18' and 19'), 5% light tan vegetative fibers, uniform, friable, soft, high plasticity, dark gray, moist, no odor	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686641.6 **Easting:** 649853.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 11
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.8'/5'	10.1			OH	20'-24.8': ORGANIC CLAY: Organic clay, 5% light tan vegetative fibers, <5% shell fragments, soft, medium plasticity, dark gray, moist, slight swamp like odor	
24		1.6			SW	INT SAND/SILTY SAND 24.8'-25': WELL GRADED SAND: Fine to coarse sand and red gravel, brown, wet, no odor, no sheen	
		1.6				25'-25.4': WELL GRADED SAND: SAA	
26		109			PT	25.4'-26.5': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, slight swamp like odor	
28	4.5'/5'	60.9			SC	26.5'-28': CLAYEY SAND: Sandy clay, friable, low plasticity, dark gray, moist, slight swamp like odor	
30		5.8			SP	28'-30': POORLY GRADED SAND: Fine to medium sand, <5% silt, poorly graded, dark gray, wet, slight swamp like odor	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686655.8 **Easting:** 649848.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.8	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 15
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand, 25% gravel, <5% brick fragments, cobbles, and slag, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	3'/5'	0.5			FILL	5'-8.5': FILL: Fine to coarse sand, 50% gravel up to 1.5" diameter, <5% brick fragments, dark gray to brown, dry to moist, no odor	
8							
		0.5				8.5'-9': FILL: Fine to medium sand, 5% glass fragments, light tan to brown, dry to moist, no odor	
		0.3				9'-9.5': FILL: Concrete, light gray, dry, no odor	
10		0.3				9.5'-10': FILL: Brick and mortar, red/gray, dry, no odor	
		1.2				10'-10.2': FILL: Fine to medium sand and brick fragments, dry, no odor 10.2'-12.5': FILL: Fibrous friable peat, <5% plastic throughout, moist, slight swamp like odor	
12	1.8'/5'	1.2					
		0.4			PT	MEADOW MAT 12.5'-15': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, dry, moderate swamp like odor	
14							
		0.7			OH	15'-15.5': ORGANIC CLAY: Organic clay, 10% light tan vegetative fibers, <5 % brick fragments, dark gray, moist, swamp like odor 15.5'-20': ORGANIC CLAY: Organic clay, <5% shell fragments, <5% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, slight to moderate swamp like odor	
16							
	4.6'/5'	11.5					
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB5

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686655.8 **Easting:** 649848.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.8	**Drilling Company:** Zebra
Start Date: 10/8/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 15
Finish Date: 10/15/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.8'/5'	3.5			OH	20'-24.8': ORGANIC CLAY: SAA, no shell fragments	
24		3.5			OH/PT	24.8'-25': ORGANIC CLAY/PEAT: Organic clay and peat, friable, dark gray, moist, no odor	
26	3.75'/5'	0.8			OH	25'-26': ORGANIC CLAY: Organic clay, <5% light tan vegetative fibers, dark gray, moist, no odor	
		0.8			SC	INT SAND/SILTY SAND 26'-27.5': CLAYEY SAND: Clayey sand, <5% fibers, low plasticity, top 3" of core has brown banding, moist, slight to moderate swamp like odor	
28		0.8			SP	27.5'-28.5': POORLY GRADED SAND: Fine to medium sand, poorly graded, dark gray, wet, slight swamp like odor, no sheen	
30		0.8			SC	28.5'-30': CLAYEY SAND: Clayey, Sand <5% fibers, low plasticity, top 3" of core has brown banding, moist, slight to moderate swamp like odor	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB6

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686670.0 **Easting:** 649843.7	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.8	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 9.5
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand, 40% f-c gravel, 15% cobbles, 5% brick fragments, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	3'/5'	2.2				5'-9.5': FILL: Fine to coarse sand, 20% gravel and brick fragments, brown, dry, no odor	
8							
10		26.6				9.5'-10': FIBROUS PEAT: Fibrous peat with 50% wood chips (mulch processed like), moist, swamp like odor	
		0.7			PT	MEADOW MAT 10'-11': FIBROUS PEAT: Fibrous peat, brown, moist, swamp like odor	
12	3'/5'	0.3			OH	11'-15': ORGANIC CLAY, 20% light tan vegetative fibers, <5% shell fragments, soft, medium plasticity, moist, slight swamp like odor	
14							
16	3.2'/5'	0.4				15'-20': ORGANIC CLAY: SAA	
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T5-SB6

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686670.0 **Easting:** 649843.7	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.8	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 9.5
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.5'/5'	5.8			OH	20'-24': ORGANIC CLAY: SAA, 5% light tan vegetative fibers, no shell fragments	
24		3.1			PT	24'-25': FIBROUS PEAT: Fibrous peat, brown to black, moist, swamp like odor	
		6.5				25'-25.5': FIBROUS PEAT: SAA, <20% clay	
26		1.0			OH	25.5'-26': ORGANIC CLAY: Organic clay, soft, medium plasticity, dark gray, moist, swamp like odor	
28	4.75'/5'	26.5			SC	INT SAND/SILTY SAND 26'-30': CLAYEY SAND: Clayey sand, dark gray, wet, slight swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB7

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686684.2 **Easting:** 649837.8	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand, 30% fine to coarse gravel, 15% cobbles, <5% brick fragments, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6		6.7				5'-7': FILL: SAA	
	3.75'/5'	222				7'-7.5': FILL: Peat, black, sheen at 7.5'bgs, dry, moderate fuel like odor	
8		222				7.5'-8': FILL: Fine to coarse sand, brown, dry, no odor	
		2.5				8'-10': FILL: Fibrous peat, black, <5% black plastic pieces, dry, slight swamp like odor	
10							
		29.0			FILL	10'-11': FILL: Fine to medium sand, 10% silt, <5% clay, sheen, wet, slight fuel like odor	T5-SB7(10-11)
		5.7				11'-11.5': FILL: Fibrous Peat, moist, Slight swamp like odor	
12	4.2'/5'					11.5'-15': FILL: Organic clay, 10% vegetative fibers, <5% shell fragments, soft, medium plasticity, dark gray, moist, slight swamp like odor	
		1.6					T5-SB7(11.5-15)
14							
16						15'-20': FILL: Fine to medium sand, 10% silt, 10% fine gravel, 5% organic clay, dark gray, wet, slight fuel like odor	
	0.67'/5'	28.8					
18							
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T5-SB7

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686684.2 **Easting:** 649837.8	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.8'/5'	47.2			OH	MEADOW MAT 20'-24.5': ORGANIC CLAY: Organic clay, <5% vegetative fibers, medium plasticity, soft, sheen from 20'-20.5' bgs, wet, swamp like odor, no sheen	
24		5.1			PT	24.5'-25': FIBROUS PEAT: Fibrous peat, grayish brown, dry, swamp like odor	
26	1'/5'	12.2			SC	INT SAND/SILTY SAND 25'-30': CLAYEY SAND: Clayey sand, 25% clay, 10% silt, <5% fine gravel, Sheen at 30; bgs, dark gray, wet, slight fuel like odor	
28							
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T5-SB8

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686698.3 **Easting:** 649833.9	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 9.5
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT FILL	
2	NA	0.0			FILL	1'-5': FILL: Fine to coarse sand and gravel, 40% cobbles, 15% brick fragments, dark brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	2.9'/5'	28.5				5'-9': FILL: Fine to coarse sand, brown, dry, no odor	
8							
		28.5				9'-9.5': Concrete fragments	
10		3.2				9.5'-10': FILL: Fine to coarse sand, 10% fine gravel, brown, wet at 9.5' bgs, slight fuel like odor	
		1.0				10'-15': FILL: Fine to medium sand, 5% silt, sheen from 10'-11.5' bgs on outside, staining at 11.5' bgs, brown, wet, slight fuel like odor	
12	3.75'/5'						
14		1.1					
16						15'-20': FILL: Fine to medium sand, 10% silt, <5% fine gravel, brown, wet, no odor, no sheen	
18	2.4'/5'	2.4					
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T5-SB8

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686698.3 **Easting:** 649833.9	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:** Zebra
Start Date: 10/7/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 9.5
Finish Date: 10/13/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
	4.5'/5'	3.0			FILL	20'-21': FILL: SAA	
22		1.3			OH	MEADOW MAT 21'-24.5': ORGANIC CLAY: Organic clay, 10% vegetative fibers, <5% shell fragments, soft, medium plasticity, gray, moist, slight swamp like odor	
24		0.4			PT	24.5'-25': FIBROUS FRIABLE PEAT: Fibrous friable peat, dark brown, dry to moist, swamp like odor	
	3.7'/5'	0.4			OH	25'-26': ORGANIC CLAY: Organic clay, 10% vegetative fibers, soft, medium plasticity, dark gray, moist, swamp like odor	
26		29.6			PT	26'-27': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, dry to moist, slight swamp like odor	
28		1.3			SP	INT SAND/SILTY SAND 27'-30': POORLY GRADED SAND: Fine sand, poorly graded, gray, wet, slight swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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Rocky Hill, CT 06067
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Fax: (860) 263-5777

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T6-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686534.6 **Easting:** 649890.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
						FILL 0.75'-5': FILL: Fine to coarse sand, 30% fine to coarse gravel, 15% cobbles, 5% brick fragments, brown, dry, no odor	
2	NA	0.0					
4							
6						5'-9': FILL: Fine to coarse sand, 10% medium to coarse gravel, <5% brick fragments, brown, dry no odor	
8	3.5'/5'	0.8					
10		0.8				9'-10': FILL: Fine to medium sand, 10% coarse sand, 5% brick fragments, 5% silt, light brown to dark brown, moist, no odor	
		0.3			FILL	10'-10.5': FILL, SAA, light brown, wet, no sheen	
12						10.5'-15': FILL: Fine to medium sand, 20% silt, 10% fine gravel, dark gray to black, wet, no odor, no sheen	
14	3.2'/5'	0.3					
16						15'-20': FILL: Fine to medium sand, 10% silt, poorly graded, dark gray, wet, slight swamp like odor, no sheen	
18	2.4'/5'	2.0					
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T6-SB1

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686534.6 **Easting:** 649890.3	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 10
Finish Date: 10/20/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	1'/5'	18.1			FILL	20'-25': FILL: Fine to coarse sand, 15% fine gravel (in shoe), well graded, brown, wet, very slight swamp like odor, no sheen	
24							
26	4.75'/5'	8.9				25'-26': FILL: SAA	
		38.5			OH	MEADOW MAT 26'-26.5': ORGANIC CLAY: Organic clay, soft, low to medium plasticity, dark gray, wet, swamp like odor, no sheen	
		38.5			PT	26.5'-27': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
		8.5			SC	INT SAND/SILTY SAND 27'-27.5': CLAYEY SAND: Clayey sand, dark gray, wet, swamp like odor, no sheen	
28		22.6			SP	27.5'-30': POORLY GRADED SAND: Fine to medium grained sand, poorly graded, dark gray, wet, swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T6-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686548.7 **Easting:** 649885.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.1	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 8
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-0.75': ASPHALT	
2	NA	0.0			FILL	FILL 0.75'-5': FILL: Fine to coarse sand, 40% medium to coarse gravel, 15% cobbles, brown, dry, no odorPlastic mesh at 2' bgs	
4							
6	3.5'/5'	0.6				5'-10': FILL: Fine to coarse sand, 15% medium to coarse gravel, 5% brick fragments, brown, wet at 8' bgs, no odor, no sheen	
8							
10							
		1.5				10'-11': FILL: Fibrous friable peat, 5% wood chips, sheen on outside of material, moist, slight fuel like odor	
12	2.7'/5'	0.5				11'-14': FILL: Fine to coarse sand, 10% wood chips, concrete fragments from 11 to 11.5' bgs, wet, black, no odor, no sheen	
14							
		0.5				14'-15': FILL: Carbonate clay, friable, low plasticity, whitish gray, moist, no odor	
16		1.3				15'-17': FILL: Fine to coarse sand, 5% medium to coarse gravel, grayish brown, wet, no odor, no sheen	
18	4.2'/5'	0.7			OH	MEADOW MAT 17'-20': ORGANIC CLAY: Organic clay, 10% light tan vegetative fibers, <5% shell fragments, soft, medium plasticity, dark gray, moist, swamp like odor	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T6-SB2

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686548.7 **Easting:** 649885.4	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.1	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 8
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	2.7'/5'	2.6			OH	20'-24': ORGANIC CLAY: Organic clay: 5% light tan - reddish brown vegetative fibers, soft, medium plasticity, dark gray, moist, organic like odor	
24		41.5			PT	24'-25': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
26	3.7'/5'	7.3			SC	INT SAND/SILTY SAND 25'-26': CLAYEY SAND: Clayey sand, gray, wet, no odor, no sheen	
		7.3			PT	26'-26.5': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor	
		7.3			SC	26.5'-27': CLAYEY SAND: Clayey sand, dark gray, wet, swamp like odor, no sheen	
28		7.3			SP	27'-30': POORLY GRADED SAND: Fine to medium sand, 5% silt, poorly graded, dark gray, wet, slight swamp like odor, no sheen	
30							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Boring and Well Construction Log

BORING #: T6-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686562.9 **Easting:** 649880.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.1	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7.5
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.1			FILL	FILL 1'-5': FILL: Fine to coarse sand, 40% medium to coarse gravel, 10% cobbles, brown, dry , no odorPlastic mesh at 2' bgs	
4							
6	3.3'/5'	1.1				5'-10': Fine to coarse sand, 10% medium to coarse gravel, 5% brick fragments, light brown to dark brown, wet at 7.5' bgs, no odor, no sheen	
8							
10							
		4.1				10'-10.5': FILL: SAA	
		4.1				10.5'-11': FILL: Fibrous friable peat, black, wet, cedar like odor, no sheen	
12		4.1				11'-12': FILL: Calcareous clay, <5% brick fragments, friable, soft, low plasticity, moist, whitish gray, no odor	
	3.25'/5'					12'-15': Fine to coarse sand, 5% silt, black, wet, no odor, no sheen	
14		4.1					
16		0.7				15'-16': FILL: Fine to coarse sand, 5% fine to medium gravel, brown, wet, no odor, no sheen	
		0.7				16'-16.5': FILL: Carbonate clay, friable, soft, low to medium plasticity, whitish gray, moist, no odor	
18	3.3'/5'	0.4			OH	MEADOW MAT 16.5'-20': ORGANIC CLAY: Organic clay, 25% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, slight swamp like odor	
20							

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: T6-SB3

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686562.9 **Easting:** 649880.6	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.1	**Drilling Company:** Zebra
Start Date: 10/10/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7.5
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	4.2'/5'	3.2			OH	20'-22': ORGANIC CLAY: SAA	
		0.8				22'-23': GRAVELY CLAY: Gravely clay, soft, low plasticity, wet, gray, no odor, no sheen	
24		0.4			SW	INT SAND/SILTY SAND 23'-25': WELL GRADED SAND: Fine to coarse sand, 5% coarse gravel, well graded, dark brown, wet, no odor, no sheen	
26		0.8				25'-27': WELL GRADED SAND: SAA	
28	4.7'/5'	48.0			PT	27'-27.5': FIBROUS FRIABLE PEAT: Fibrous friable peat, brown, moist, swamp like odor,	
		48.0			OH	27.5'-28': ORGANIC CLAY: Organic clay, soft, medium plasticity, dark gray, moist, slight swamp like odor	
30		37.1			SP	28'-30': POORLY GRADED SAND: Fine to medium sand, 5% silt, poorly graded, dark gray, wet, no odor, no sheen	

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: T6-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686579.3 **Easting:** 649874.9	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0							
		NA			AS	ASPHALT 0'-1': ASPHALT	
2	NA	0.0			FILL	FILL 1'-5': FILL: Fine to coarse sand, 25% fine to coarse gravel, 25% cobbles, 5% brick fragments, brown, dry, no odor	
4							
6	3.5'/5'	0.6			FILL	5'-10': FILL: Fine to coarse sand, 15% coarse gravel, 10% brick fragments, brown, wet at 7' bgs, no odor, no sheen	
8							
10							
		0.4				10'-11': FILL: SAA	
12	4.3'/5'	0.3				11'-15': FILL: Fine to coarse sand, 20% silt, 5% clay, black, concrete chunks at 13' bgs, wet, no odor, no sheen	
14							
16		4.1			PT	MEADOW MAT 15'-16': FIBROUS FRIABLE PEAT: Fibrous friable peat, black, moist, slight fuel like odor	
18	2.75'/5'	1.2			OH	16'-20': ORGANIC CLAY: Organic clay, 20% light tan vegetative fibers, 5% shell fragments, soft, medium plasticity, dark gray, moist, swamp like odor	
20							

Remarks: Boring Terminated (ft): 30.0

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NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: T6-SB4

Client: National Grid	**Location:** Brooklyn, NY	
Project: Equity Former MGP Site	**Northing:** 686579.3 **Easting:** 649874.9	**Logged By:** J. Christoffel
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Zebra
Start Date: 10/9/2014	**Drilling Method:** Macrocore	**Water Level (ft):** 7
Finish Date: 10/17/2014	**Borehole Diameter:** 2 inch	**Total Depth (ft):** 30.0

Depth (ft bgs)	Recovery Length	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20							
22	3.5'/5'	2.9			OH	20'-24.5': ORGANIIC CLAY: Organic clay, 5% light tan vegetative fibers, soft, medium plasticity, dark gray, moist, swamp like odor	
24		5.4			PT	24.5'-25': FIBROUS FRIABLE PEAT: Fibrous friable peat, dark brown, moist, swamp like odor	
		14.4				25'-25.4': FIBOROUS FRIABLE PEAT: SAA	
26	3.3'/5'	14.4			SC	25.4'-26.5': CLAYEY SAND: Clayey sand, soft, medium plasticity, dark gray, moist, swamp like odor	
28		39.9			SP	26.5'-30': POORLY GRADED SAND: Fine to medium sand, 5% silt, poorly graded, dark gray, wet, swamp like odor, no sheen	
30							

INT SAND/SILTY SAND

Remarks: Boring Terminated (ft): 30.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

PDI for NAPL Recovery IRM

March 2016

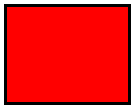
250 Apollo Drive Drive
Chelmsford, Massachusetts 01824

LEGEND

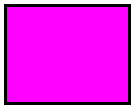
Boring Logs
Monitoring Well Logs
Test Pit Logs

Project Name: Equity Former MGP
Project Number: 60137362
Location: Brooklyn, NY
Client: National Grid

Visual Impacts



NAPL SATURATED



COATED MATERIAL, LENSES



BLEBS, GLOBS, SHEEN



STAINING, ODOR



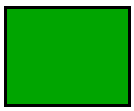
HARDENED NAPL



PETROLEUM IMPACTS SATURATION & SHEENS



PETROLEUM IMPACTS STAINING & ODORS



NO OBSERVED IMPACTS



PURIFIER WASTE AND ODOR

Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

AECOM Boring and Well Construction Log

BORING #: PDI-1

Client: National Grid	**Location:** NW corner of site	
Project: Equity Former MGP Site	**Northing:** 686752.2 **Easting:** 649174.6	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:**
Start Date: 8/13/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/14/2012	**Borehole Diameter:**	**Total Depth (ft):** 59.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0			FILL	0-5 ft bgs: FILL: brick fragments, ~20% dark brown silt, ~1-% coarse to fine grained sand, ~10% coarse to fine gravel, cobbles, glass fragments, metal fragments, dry, no odor.	
4								
6	0.6	7 8 10 14	13.6				5-7 ft bgs: SAA, wet at ~6 ft bgs, slight naphthalene-like odor.	
8	0.8	12 7 6 6	41.1			SW	7-9 ft bgs: WELL GRADED SAND (SW): black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, brick fragments, wet, NAPL-like sheen, moderate naphthalene-like odor.	
10	0.6	4 3 2 2	312				9-11 ft bgs: SAA, coated with NAPL, strong naphthalene-like odor.	
12	0.5	4 2 1 1	350			ML	11-13 ft bgs: SANDY SILT (ML): dark brown silt, ~20% fine grained sand, <5% coarse to fine gravel, brick dust, wet, coated with NAPL, strong naphthalene-like odor.	
14	1.8	6 2 4 4	504			SM	13-15 ft bgs: SILTY SAND (SM): dark brown coarse to fine grained sand, ~20% silt, ~10% coarse to fine gravel, wet, saturated with NAPL, strong naphthalene-like odor, dark gray peat in tip of spoon.	
16	0.5	2 2 2 2	188				15-17 ft bgs: FIBROUS AND FRIABLE PEAT (PT): dark gray fibrous peat, wet, strong naphthalene-like odor.	
18	0.4	2 1 1 1	18.9			PT	17-19 ft bgs: SAA, swampy odor.	
20	0.3	2 1	17.8				19-21 ft bgs: SAA, swampy odor.	

Remarks: Boring Terminated (ft): 59.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-1

Client: National Grid	**Location:** NW corner of site	
Project: Equity Former MGP Site	**Northing:** 686752.2 **Easting:** 649174.6	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:**
Start Date: 8/13/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/14/2012	**Borehole Diameter:**	**Total Depth (ft):** 59.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	0.3	1 1	17.8			PT		
22	1.3	1 P P 1	17.4				21-23 ft bgs: SAA, swampy odor.	
24	1.5	1 P 3 4	8.8				23-25 ft bgs: SAA, gray-brown, swampy odor.	
26	1.1	3 4 4 4	6.7				25-27 ft bgs: SAA, swampy odor, gray fine sand in tip of spoon.	
28	1.2	14 10 19 23	223			SP	27-29 ft bgs: POORLY GRADED SAND (SP): gray silty sand, wet, coated with NAPL, strong naphthalene-like odor.	
30	1	10 12 20 16	199				29-31 ft bgs: SAA, wet, coated with NAPL, 0.1' bed of silt @ 30.9' bgs, strong naphthalene-like odor.	
32	2	19 23 26 31	211				31-33 ft bgs: SAA, coated with NAPL, strong naphthalene-like odor.	
34	2	18 24 26 32	177				33-35 ft bgs: SAA, coated with NAPL, strong naphthalene-like odor.	
36	2	13 16 26 29	187				35-37 ft bgs: SAA, coated with NAPL at 36.8-37.0' bgs, strong naphthalene-like odor.	
38	1.3	17 26 31 43	201				37-39 ft bgs: SAA, saturated with NAPL, strong naphthalene-like odor.	
40	1.1	12 9	358			SP-ML	39-41 ft bgs: SILTY SAND/SILT (SP/ML): gray interbedded silty fine grained sand and silt, wet, sand saturated with NAPL, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 59.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-1

Client: National Grid	**Location:** NW corner of site	
Project: Equity Former MGP Site	**Northing:** 686752.2 **Easting:** 649174.6	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.6	**Drilling Company:**
Start Date: 8/13/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/14/2012	**Borehole Diameter:**	**Total Depth (ft):** 59.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	1.1	14, 16	358			SP-ML	41-43 ft bgs: SAA, strong naphthalene-like odor.	
42	1.3	10, 16, 21, 26	106					
44	1.2	13, 18, 29, 36	247			CL-ML	43-45 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY/SANDY SILT (CL/ML): gray interbedded clay and silt, 1 inch fine grained sand lense @ 43' bgs, wet, saturated with NAPL, strong naphthalene-like odor.	
46	0.9	5, 9, 11, 17	165			ML	45-47 ft bgs: SANDY SILT (ML): gray silt, wet NAPL-like sheen, strong naphthalene-like odor.	
48	0.8	12, 12, 16, 19	40.5				47-49 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, ~10% silt, wet, slight naphthalene-like odor.	
50	1.4	10, 14, 19, 27	3.6				49-51 ft bgs: SAA, no odor.	
52	2	12, 9, 13, 18	0.4				51-53 ft bgs: SAA, no odor.	
54	2	13, 8, 10, 6	0.2				53-55 ft bgs: SAA, <5% fine gravel, no odor.	
56	2	15, 21, 23, 26	0.2				55-57 ft bgs: SAA, no gravel, no odor.	
58	2	11, 14, 14, 21	0.2			CL	57-59 ft bgs: SAA, no odor.	

Remarks: Boring Terminated (ft): 59.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-2

Client: National Grid	**Location:** North east gate corner	
Project: Equity Former MGP Site	**Northing:** 686766.7 **Easting:** 649219.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.5	**Drilling Company:**
Start Date: 8/26/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/26/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0.2			FILL	0-5 ft bgs: FILL: black silt, ~20% coarse to fine grained sand, ~20% coarse to fine gravel, brick fragments, glass fragments, wood fragments, dry, no odor.	
4								
6	0	100/2"	NA				5-7 ft bgs: No recovery, rock in tip of spoon, refusal on cobble.	
8	1	30 13 24 28	0.2				7-9 ft bgs: FILL: brown/black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, brick fragments, wet, no odor.	
10	1	20 50/2"	0.2				9-11 ft bgs: SAA, no odor.	
12	1	13 11 6 3	85.5				11-13 ft bgs: FILL: SAA, blebs of NAPL in water, NAPL-like sheen, strong naphthalene-like odor.	
14	1.3	4 2 3 4	112				13-15 ft bgs: FILL: SAA, blebs of NAPL in water, NAPL-like sheen, strong naphthalene-like odor.	
16	1	8 5 6 7	12.7			PT-OH	15-17 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): dark gray peat/organic clay, wet, swampy odor.	
18	1.5	12 4 4 4	12.3			OH	17-19 ft bgs: ORGANIC CLAY (OH): organic clay, wet, swampy odor.	
20	0.6	5 4	11.4				19-21 ft bgs: ORGANIC CLAY (OH): organic clay, peat, wet, swampy odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-2

Client: National Grid	**Location:** North east gate corner	
Project: Equity Former MGP Site	**Northing:** 686766.7 **Easting:** 649219.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.5	**Drilling Company:**
Start Date: 8/26/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/26/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	0.6	3 3	11.4			OH		
22	1.3	5 4 6 9	10.5			PT-OH	21-23 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): brown/dark gray peat and organic clay, wet, swampy odor.	
24	1.1	9 16 21 23	11.2				23-25 ft bgs: SAA, gray fine grained sand in tip of spoon, swampy odor.	
26	1.1	15 17 26 30	8.4			SP	25-27 ft bgs: POORLY GRADED SAND (SP): dark gray silty fine grained sand, wet, swampy odor.	
28	1	19 7 7 9	7.6				27-29 ft bgs: SAA, swampy odor.	
30	1.1	21 26 31 40	0.4				29-30 ft bgs: SAA, no odor.	
32	1	19 21 30 36	0.4				31-33 ft bgs: SAA, no odor.	
34	1	31 36 38 40	121				33-35 ft bgs: POORLY GRADED SAND (SP): gray silty fine grained sand, wet, small (<1/2 inch) pockets coated with NAPL, strong naphthalene-like odor.	
36	1.1	18 23 25 23	210			SP-ML	35-37 ft bgs: POORLY GRADED SAND/SANDY SILT (SP/ML): gray interbedded silty fine grained sand and sandy silt, wet, sand layers saturated with NAPL, strong naphthalene-like odor.	
38	1.1	13 17 16 19	125				37-39 ft bgs: SAA, strong naphthalene-like odor.	
40	0.8	21 27	40.1				39-41 ft bgs: SAA, moderate naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-2

Client: National Grid	**Location:** North east gate corner	
Project: Equity Former MGP Site	**Northing:** 686766.7 **Easting:** 649219.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.5	**Drilling Company:**
Start Date: 8/26/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/26/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	0.8	31 29	40.1			SP-ML	41-42 ft bgs: SAA, slight naphthalene-like odor.	
42	0.7	14 16 17 18	33.4			ML-CL	42-43 ft bgs: SANDY SILT/CLAY AND SILTY CLAY OF LOW PLASTICITY (ML/CL): gray, interbedded silt and clay, wet, no odor.	
44	1.5	15 17 21 20	0				43-45 ft bgs: SAA, no odor.	
46	1.3	9 10 10 14	0			CL	45-47 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, <5% silt, wet, no odor.	
48	0.8	16 19 21 29	0				47-49 ft bgs: SAA, no odor.	
50	0.7	21 28 31 38	0				49-51 ft bgs: SAA, no odor.	
52	1.3	11 15 16 17	0				51-53 ft bgs: SAA, no odor.	
54	1.8	9 11 13 18	0				53-55 ft bgs: SAA, no odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-3

Client: National Grid	**Location:** North east of scale	
Project: Equity Former MGP Site	**Northing:** 686715.9 **Easting:** 649236.5	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:**
Start Date: 8/22/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/23/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA					0-5 ft bgs: FILL: very dark brown to black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, glass fragments, brick fragments, slag, dry.	
2	NA		0.3					
4								
6	0.7	12 21 15 10	0			FILL	5-7 ft bgs: SAA, no odor.	
8	0.6	3 4 5 4	0				7-9 ft bgs: SAA, wet, no odor.	
10	0.2	100/6"	NA				9-11 ft bgs: rock stuck in tip of spoon, no odor.	
12	1.1	64 42 14 10	0			SW-ML	11-13 ft bgs: WELL GRADED SAND/SANDY SILT (SW/ML): SAA, no odor.	
14	0.7	6 10 14 19	55.3				13-15 ft bgs: SAA, NAPL-like sheen, strong naphthalene-like odor.	
16	0.9	6 3 6 3	279				15-17 ft bgs: SAA, saturated with NAPL, strong naphthalene-like odor.	
18	0.5	21 14 8 3	209				17-19 ft bgs: SAA, saturated with NAPL, strong naphthalene-like odor.	
20	0.9	5 4	318			PT-OH	19-21 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): very dark gray peat/ organic clay, wet, saturated with NAPL from 19-20' bgs, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-3

Client: National Grid	**Location:** North east of scale	
Project: Equity Former MGP Site	**Northing:** 686715.9 **Easting:** 649236.5	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:**
Start Date: 8/22/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/23/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	0.9	3, 4	318			PT-OH		
22	0	1, 2, 3, 4	NA			NR	21-23 ft bgs: No recovery.	
24	1.1	8, 10, 19, 21	133			PT-OH	23-24.5 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): very dark gray peat/organic clay, wet, strong naphthalene-like odor.	
						SP	24.5-25 ft bgs: POORLY GRADED SAND (SP) dark gray silty fine grained sand, wet, moderate naphthalene-like odor.	
26	0.9	14, 4, 6, 4	42.9			PT	25-27 ft bgs: FIBROUS AND FRIABLE PEAT (PT): dark brown peat, wet, moderate naphthalene-like odor.	
28	0.6	6, 5, 4, 5	200			SP	27-29 ft bgs: POORLY GRADED SAND (SP): dark gray silty fine grained sand, wet, small (<1 inch) pocket coated with NAPL at 29' bgs, strong naphthalene-like odor.	
30	1.1	9, 13, 13, 17	204			SP	29-31 ft bgs: SAA, coated with NAPL at 29-29.5' bgs, saturated with NAPL at 30.5-31' bgs, strong naphthalene-like odor.	
32	1.2	9, 25	166			ML	31-32 ft bgs: SANDY SILT (ML): dark gray sandy silt, strong naphthalene-like odor.	
		34				SM	32-32.5 ft bgs: SILTY SAND (SM): dark gray medium to fine grained sand, saturated with NAPL, strong naphthalene-like odor.	
		44				ML	32.5-33 ft bgs: SANDY SILT (ML): same as 31-32' bgs, strong naphthalene-like odor.	
34	0.6	4, 13, 29, 27	118			ML-SP	33-35 ft bgs: SANDY SILT/POORLY GRADED SAND (ML/SP): dark gray interbedded sandy silt and silty medium to fine grained sand, sand coated with NAPL, strong naphthalene-like odor.	
36	0.9	23, 28, 60, 48	130			ML	35-37 ft bgs: SANDY SILT (ML): dark gray sandy silt, coated with NAPL @ 36-37' bgs, strong naphthalene-like odor.	
38	1.4	13, 20, 22, 23	128			ML	37-39 ft bgs: SANDY SILT (ML): dark gray sandy silt, small (<1 inch) layers of fine grained sand saturated with NAPL, strong naphthalene-like odor.	
40	1.2	18, 24	98.1			SP-ML	39-41 ft bgs: POORLY GRADED SAND/SANDY SILT (SP/ML): dark gray interbedded silty fine grained sand and silt, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-3

Client: National Grid	**Location:** North east of scale	
Project: Equity Former MGP Site	**Northing:** 686715.9 **Easting:** 649236.5	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.2	**Drilling Company:**
Start Date: 8/22/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/23/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	1.2	20	98.1			SP-ML		
		23						
	1.5	5	50.6			ML-CL	41-43 ft bgs: SANDY SILT/CLAY AND SILTY CLAY OF LOW PLASTICITY (ML/CL): dark gray interbedded silt and clay, wet, moderate naphthalene-like odor.	
42		15						
		25						
		30						
	1.5	17	54.5				43-45 ft bgs: SAA, thin (<1/2 inch) beds of fine sand, wet, strong naphthalene-like odor.	
44		22						
		28						
		35						
	1	3	42.1			ML-SP	45-46 ft bgs: SANDY SILT/POORLY GRADED SAND (ML/SP): gray interbedded silt and silty fine grained sand, wet, slight naphthalene-like odor.	
46		8						
		10				ML-CL	46-47 ft bgs: SANDY SILT/CLAY AND SILTY CLAY OF LOW PLASTICITY (ML/CL): gray interbedded silt and clay, wet, slight naphthalene-like odor.	
		12						
	1.7	3	4.3			CL	47-49 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, wet, no odor.	
48		8						
		10						
		12						
	2	5	0				49-51 ft bgs: SAA, no odor.	
50		8						
		10						
		13						
	2	8	0				51-53 ft bgs: SAA, no odor.	
52		11						
		10						
		10						
	1.9	5	0				53-55 ft bgs: SAA, 1 inch bed of fine grained sand @ 53.5' bgs, wet, no odor.	
54		9						
		8						
		8						

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-4

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686663.4 **Easting:** 649254.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:**
Start Date: 8/16/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/21/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0			FILL	0-5 ft bgs: FILL: black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, brick fragments, glass fragments, metal fragments, slag, dry, no odor.	
4								
6	1.1	20 10 10 19	0				5-7 ft bgs: FILL: dark brown coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, brick fragments, dry, no odor.	
8	1.2	13 8 7 3	0.2			SW	7-9 ft bgs: WELL GRADED SAND (SW): black silty coarse to fine grained sand, <5% fine gravel, moist, no odor.	
10	2	4 9 28 33	0			ML	9-11 ft bgs: SANDY SILT (ML): black sandy silt, ~10% coarse to fine gravel, wet, no odor.	
12	0.3	14 100/0"	NA			NR	11-13 ft bgs: No recovery, cobble stuck in tip of spoon, wet, moderate naphthalene-like odor.	
14	0.6	15 6 3 3	31			ML	13-15 ft bgs: SANDY SILT (ML): black sandy silt, ~20% coarse to fine gravel, wet, moderate naphthalene-like odor.	
16	0.4	2 2 3 4	28.8				15-17 ft bgs: SAA, moderate naphthalene-like odor.	
18	0.4	10 3 2 2	281			SW PT	17-18 ft bgs: WELL GRADED SAND (SW): black silty coarse to fine grained sand, wet, saturated with NAPL, strong naphthalene-like odor. 18-19 ft bgs: FIBROUS AND FRIABLE PEAT (PT): very dark gray peat, wet, strong naphthalene-like odor.	
20	1.7	2 2	42.2			PT-OH	19-21 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): very dark gray peat and organic clay, wet, moderate naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-4

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686663.4 **Easting:** 649254.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:**
Start Date: 8/16/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/21/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	1.7	4 6	42.2			PT-OH		
22	1.1	1 P 1 4	21.2				21-23 ft bgs: SAA, swampy odor.	
24	1.4	2 3 4 2	17.9				23-25 ft bgs: SAA, swampy odor.	
26	1.7	2 6 7 7	166			ML	25-26 ft bgs: SAA, swampy odor. 26-27 ft bgs: SANDY SILT (ML): dark gray sandy silt, wet, coated with NAPL, strong naphthalene-like odor.	
28	1.3	4 7 10 24	112			ML-SP	27-29 ft bgs: SANDY SILT/POORLY GRADED SAND (ML/SP): dark gray interbedded silt and fine grained sand, wet, sand coated with NAPL, strong naphthalene-like odor.	
30	1.8	17 12 24 33	155			SP	29-31 ft bgs: POORLY GRADED SAND (SP): dark gray silty fine grained sand, ~10% fine gravel, wet, small pockets (<1/2 inch) coated with NAPL, strong naphthalene-like odor.	
32	2	15 27 27 29	90.4			ML	31-33 ft bgs: SANDY SILT (ML): dark gray sandy silt, wet, stained with NAPL, NAPL-like sheen, strong naphthalene-like odor.	
34	2	14 16 19 21	106				33-35 ft bgs: SAA, strong naphthalene-like odor.	
36	1.3	21 24 31 33	120				35-37 ft bgs: SAA, strong naphthalene-like odor.	
38	2	17 19 21 15	120				37-39 ft bgs: SAA, strong naphthalene-like odor.	
40	1.7	8 12	80.5			CL-ML	39-41 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY/SANDY SILT (CL/ML): gray interbedded clay and silt, wet, moderate naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-4

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686663.4 **Easting:** 649254.0	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.9	**Drilling Company:**
Start Date: 8/16/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/21/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	1.7	12, 14	80.5					
42	1.2	2, 3, 5, 5	1.3				41-43 ft bgs: SAA, no odor.	
44	1.1	7, 10, 12, 15	0.4			CL-ML	43-45 ft bgs: SAA, no odor.	
46	1.5	4, 11, 13, 16	0				45-47 ft bgs: SAA, no odor.	
48	2	5, 9, 14, 14	0.2				47-49 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, wet, no odor.	
50	1.7	4, 8, 8, 12	0			CL	49-51 ft bgs: SAA, no odor.	
52	2	12, 21, 23, 28	0.2				51-52.5 ft bgs: SAA, no odor.	
						SM	52.5-53 ft bgs: SILT SAND (SM): grayish brown silty medium to fine grained sand, ~10% clay, wet, no odor.	
54	2	13, 18, 28, 33	0			CL	53-54 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, wet, no odor.	
						SM	54-54.5 ft bgs: SILTY SAND (SM): grayish brown silty medium to fine grained sand, ~10% clay, wet, no odor.	
						CL	54.5-55 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, wet, no odor.	

Remarks: Boring Terminated (ft): 55.0

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-5

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686654.6 **Easting:** 649286.4	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:**
Start Date: 8/27/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/29/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	1.1			FILL	0-5 ft bgs: FILL: black silt, ~20% coarse to fine grained sand, ~20% coarse to fine gravel, brick fragments, clinkers, cobbles, dry, no odor.	
4								
6	0.7	30 10 5 5	22.6				5-7 ft bgs: FILL: black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, brick fragments, clinkers, moist, slight naphthalene-like odor.	
8	0.9	12 25 36 15	232				7-9 ft bgs: SAA, wet, slight naphthalene-like odor.	
10	0.2	4 4 4 4	NA				9-11 ft bgs: FILL: rock in tip of spoon.	
12	0.9	24 50/0"	45.6				11-13 ft bgs: SAA, moderate naphthalene-like odor.	
14	NA	NA	NA			NR	13-15 ft bgs: no recovery, cobble.	
16	1.6	12 4 4 6	210			FILL OH	15-16 ft bgs: FILL: SAA, numerous blebs of NAPL in water, coated with NAPL, strong naphthalene-like odor. 16-17 ft bgs: ORGANIC CLAY (OH): dark gray organic clay, wet, strong naphthalene-like odor.	
18	1	1 1 2 2	19.8			PT-OH	17-19 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): dark gray peat/organic clay, wet, swampy odor.	
20	0.9	2 1	20.7				19-21 ft bgs: SAA, swampy odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-5

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686654.6 **Easting:** 649286.4	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:**
Start Date: 8/27/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/29/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	0.9	1 3	20.7					
22	1	1 2 2 1	12.5				21-23 ft bgs: SAA, swampy odor.	
24	0.8	2 3 3 3	15.5			PT-OH	23-25 ft bgs: SAA, swampy odor.	
26	0.7	4 9 9 12	11.9				25-26.5 ft bgs: SAA, swampy odor.	
28	1.4	9 31 54 30	263			SP	26.5-27 ft bgs: POORLY GRADED SAND (SP): gray silty fine grained sand, small (<1/2 inch) pockets coated with NAPL, wet, strong naphthalene-like odor. 27-29 ft bgs: SAA, silt from 28-28.5, wet, sand saturated with NAPL @ 28.5-29' bgs, strong naphthalene-like odor.	
30	1	15 29 53 59	230				29-31 ft bgs: SAA, lenses saturated with NAPL, strong naphthalene-like odor.	
32	1.2	11 21 30 50	274				31-33 ft bgs: POORLY GRADED SAND/SANDY SILT (SP/ML): gray interbedded silty fine grained sand and sandy silt, wet, sand saturated with NAPL, strong naphthalene-like odor.	
34	0.7	7 15 26 31	255				33-35 ft bgs: SAA, sand coated with NAPL, strong naphthalene-like odor.	
36	1.3	16 19 28 42	262			SP-ML	35-37 ft bgs: SAA, sand coated with NAPL, strong naphthalene-like odor.	
38	0.8	15 18 21 28	302				37-39 ft bgs: SAA, sand coated with NAPL, strong naphthalene-like odor.	
40	0.9	18 24	157				39-41 ft bgs: SAA, thin (<1/4 inch) beds of sand saturated with NAPL, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-5

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686654.6 **Easting:** 649286.4	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.7	**Drilling Company:**
Start Date: 8/27/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/29/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	0.9	21, 35	157			SP-ML		
42	1.4	15, 19, 21, 28	12.7			ML	41-43 ft bgs: SANDY SILT (ML): gray clayey silt, wet, slight naphthalene-like odor.	
44	0.9	15, 26, 26, 26	12.7			ML-CL	43-45 ft bgs: SANDY SILT/CLAY AND SILTY CLAY OF LOW PLASTICITY (ML/CL): gray interbedded silt and clay, <5% fine grained sand, wet, no odor.	
46	1.1	19, 20, 23, 25	0			ML-CL	45-47 ft bgs: SAA, no odor.	
48	1.6	6, 10, 10, 14	0			CL	47-49 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, <5% silt, wet, no odor.	
50	1.3	7, 11, 14, 15	0			CL	49-51 ft bgs: SAA, no odor.	
52	1.6	6, 10, 10, 13	0			CL	51-52.5 ft bgs: SAA, no odor.	
54	1.8	P, 6, 10, 17	0			SM / CL	52.5-53 ft bgs: SILTY SAND (SM): gray/brown medium to fine grained sand, <5% silt, wet, no odor. 53-54 ft bgs: SAA, no odor. 54-55 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, <5% silt, wet, no odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-6

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686548.3 **Easting:** 649259.3	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.3	**Drilling Company:**
Start Date: 8/24/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/24/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 57.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA	NA	0.2			FILL	0-5 ft bgs: FILL: dark brown/black coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, brick fragments, glass fragments, dry, no odor.	
4								
6	1	48 50/4"	0.6				5-7 ft bgs: SAA, refusal on cobble, moist, no odor.	
8	0.6	8 10 12 9	0.2				7-9 ft bgs: SAA, wet, no odor.	
10	1	7 6 8 10	0.2				9-11 ft bgs: SANDY SILT (ML): gray to black silt, ~20% coarse to fine grained sand, ~10% coarse to fine gravel, brick fragments, wet, no odor.	
12	0.6	2 2 13 13	18.9			ML	11-13 ft bgs: SANDY SILT (ML): black silt, ~20% coarse to fine grained sand, ~20% coarse to fine gravel, NAPL-like sheen, slight naphthalene-like odor.	
14	0.5	8 12 12 8	24.3				13-15 ft bgs: SAA, few blebs of NAPL on water, NAPL-like sheen, slight naphthalene-like odor.	
16	1	1 1 1 1	9.9			PT	15-17 ft bgs: FIBROUS AND FRIABLE PEAT (PT): brown fibrous peat, wet, swampy odor.	
18	0	1 1 2 2	NA			NR	17-19 ft bgs: No recovery.	
20	2	P P	4.7			OH-PT	19-21 ft bgs: ORGANIC CLAY/FIBROUS AND FRIABLE PEAT (OH/PT): dark gray organic clay and peat, wet, swampy odor.	

Remarks: Boring Terminated (ft): 57.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-6

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686548.3 **Easting:** 649259.3	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.3	**Drilling Company:**
Start Date: 8/24/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/24/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 57.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	2	P P	4.7					
	1.2	1 1 2 2	3.3				21-23 ft bgs: SAA, swampy odor.	
22								
24	1	4 3 3 4	4.8			OH-PT	23-25 ft bgs: SAA, swampy odor.	
26	0.5	3 5 10 16	4.7				25-27 ft bgs: SAA, swampy odor.	
28	1	3 6 12	16.7				27-28.5 ft bgs: SAA, slight naphthalene-like odor.	
		20	106			SP	28.5-29 ft bgs: POORLY GRADED SAND (SP): dark gray silty fine grained sand, wet, saturated with NAPL in tip of spoon, strong naphthalene-like odor.	
30	1.5	3 7 20 25	258				29-31 ft bgs: POORLY GRADED SAND/SANDY SILT (SP/ML): interbedded silty fine grained sand and sandy silt, wet, sand lense saturated with NAPL, strong naphthalene-like odor.	
32	1	21 27 28 22	302				31-33 ft bgs: SAA, sand saturated with NAPL, strong naphthalene-like odor.	
34	0.9	8 12 16 21	277			SP-ML	33-35 ft bgs: SAA, sand saturated with NAPL, strong naphthalene-like odor.	
36	1.6	5 15 28 43	199				35-37 ft bgs: SAA, sand coated/saturated with NAPL, strong naphthalene-like odor.	
38	0.9	11 18 21 25	31.1				37-39 ft bgs: SAA, slight naphthalene-like odor.	
40	0.9	18 29	40				39-41 ft bgs: SAA, moderate naphthalene-like odor.	

Remarks: Boring Terminated (ft): 57.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-6

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686548.3 **Easting:** 649259.3	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.3	**Drilling Company:**
Start Date: 8/24/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 6
Finish Date: 8/24/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 57.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	0.9	36 41	40			SP-ML	41-43 ft bgs: SAA, saturated with NAPL @ 42.5-43' bgs	
42	1.3	28 30 36 41	188					
44	1.3	14 25 33 36	0.4			ML	43-45 ft bgs: SANDY SILT (ML): grayish brown clayey silt, wet, no odor.	
46	1.2	9 36 44 33	0			ML-CL	45-47 ft bgs: SANDY SILT/CLAY AND SILTY CLAY OF LOW PLASTICITY (ML/CL): grayish brown interbedded silt and clay, wet, no odor.	
48	0.7	6 11 17 20	0				47-49 ft bgs: SAA, no odor.	
50	1.2	12 18 21 19	0			ML	49-51 ft bgs: SANDY SILT (ML): grayish brown clayey silt, wet, no odor.	
52	1.3	5 14 14 12	0				51-53 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray silty clay, thin bed (<1/2 inch) of fine grained sand, wet, no odor.	
54	1.8	10 12 13 15	0				53-55 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, <5% silt, wet, no odor.	
56	1.7	12 20 20 20	0				55-57 ft bgs: SAA, no odor.	

Remarks: Boring Terminated (ft): 57.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: PDI-8

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686519.9 **Easting:** 649174.2	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:**
Start Date: 8/30/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 8/31/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0		NA						
2	NA		0.3				0-5 ft bgs: FILL: dark gray coarse to fine grained sand, ~20% silt, ~20% coarse to fine gravel, cobbles, brick fragments, wood fragments, glass fragments, coal fragments, dry, no odor.	
4								
6	1.2	50 38 24 31	0.2				5-7 ft bgs: SAA, no odor.	
8	1.1	25 38 24 31	0.2				7-9 ft bgs: SAA, moist, no odor.	
10	1.1	3 4 6 4	0.5			FILL	9-11 ft bgs: FILL: SAA, wet, no odor.	
12	1.3	6 26 31 40	0.3				11-12.5 ft bgs: FILL: SAA, no odor. 12.5-13 ft bgs: FILL: black coal, ~20% coarse to fine grained sand, ~20% coarse to fine gravel, wet, moderate naphthalene-like odor.	
14	0.2	100/2"	NA				13-15 ft bgs: No recovery, rock in tip of spoon.	
16	0.9	6 11 10 12	42.6				15-17 ft bgs: SAA (0-5 ft bgs), NAPL-like sheen, moderate naphthalene-like odor.	
18	0.7	7 9 10 11	142				17-19 ft bgs: SAA, blebs of NAPL on water, strong naphthalene-like odor.	
20	0.7	6 8	305			PT-OH	19-21 ft bgs: FIBROUS AND FRIABLE PEAT/ORGANIC CLAY (PT/OH): dark gray/brown peat and organic clay, wet, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-8

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686519.9 **Easting:** 649174.2	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:**
Start Date: 8/30/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 8/31/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	0.7	7, 4	305			PT-OH		
22	1	6, 2, 3, 6	26.7				21-23 ft bgs: SAA, swampy odor.	
24	1.5	10, 8, 6, 6	30.3				23-25 ft bgs: SAA, swampy odor.	
26	1	9, 10, 11, 10	21.4				25-27 ft bgs: SAA, swampy odor.	
28	0.9	9, 11, 12, 14	30.6			SP	27-29 ft bgs: POORLY GRADED SAND (SP): gray silty fine grained sand, wet, swampy odor.	
30	1.6	10, 14, 24, 20	0.6			SM	29-31 ft bgs: SILTY SAND (SM): gray silty medium to fine grained sand, wet, no odor.	
32	0.8	15, 19, 24, 28	50.1				31-33 ft bgs: SAA (27-29 ft bgs), NAPL-like sheen, moderate naphthalene-like odor.	
34	1.3	7, 8, 9, 9	54.4				33-35 ft bgs: SAA (29-31 ft bgs), NAPL-like sheen, moderate naphthalene-like odor.	
36	1.3	9, 11, 14, 13	288				35-37 ft bgs: SAA, coated with NAPL @ 36.8-37.0 ft bgs, wet, strong naphthalene-like odor.	
38	0.3	9, 14, 17, 23	357				37-39 ft bgs: SAA (27-29 ft bgs), stained with NAPL, strong naphthalene-like odor.	
40	1.3	13, 18	1000+				39-41 ft bgs: SAA, saturated with NAPL, strong naphthalene-like odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: PDI-8

Client: National Grid	**Location:**	
Project: Equity Former MGP Site	**Northing:** 686519.9 **Easting:** 649174.2	**Logged By:** Steven Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 14.6	**Drilling Company:**
Start Date: 8/30/2012	**Drilling Method:** Hollow Stem Auger	**Water Level (ft):** 9
Finish Date: 8/31/2012	**Borehole Diameter:** 7 1/4 inch	**Total Depth (ft):** 55.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	1.3	20, 24	1000+			SM		
42	1.2	21, 29, 36, 41	1000+			SP-ML	41-43 ft bgs: POORLY GRADED SAND/SANDY SILT (SP/ML): gray interbedded silty fine grained sand and sandy silt, wet, sand saturated with NAPL, strong naphthalene-like odor.	
44	0.9	17, 26, 37, 41	1000+			SP	43-45 ft bgs: POORLY GRADED SAND (SP): gray silty fine grained sand, wet, saturated with NAPL, strong naphthalene-like odor.	
46	1.4	26, 37, 41, 57	1000+				45-47 ft bgs: SAA, saturated with NAPL, strong naphthalene-like odor.	
48	1.3	7, 13, 15, 19	0.3				47-49 ft bgs: CLAY AND SILTY CLAY OF LOW PLASTICITY (CL): gray clay, <5% fine gravel, several then (<1/8 inch) beds of fine grained sand, wet, no odor.	
50	0.9	7, 8, 9, 11	0				49-51 ft bgs: SAA, no odor.	
52	2	4, 10, 13, 16	0			CL	51-53 ft bgs: SAA, <1/2 inch bed of fine grained sand at 52.5' bgs, wet, no odor.	
54	1.5	9, 16, 18, 19	0				53-55 ft bgs: SAA, <1/2 inch bed of fine grained sand @ 54.5' bgs, wet, no odor.	

Remarks: Boring Terminated (ft): 55.0

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Northing and Easting coordinates referenced to New York State Plane NAD83 East.

NAPL Recovery Wells

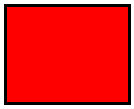
250 Apollo Drive Drive
Chelmsford, Massachusetts 01824

LEGEND

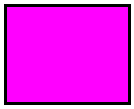
Boring Logs
Monitoring Well Logs
Test Pit Logs

Project Name: Equity Former MGP
Project Number: 60137362
Location: Brooklyn, NY
Client: National Grid

Visual Impacts



NAPL SATURATED



COATED MATERIAL, LENSES



BLEBS, GLOBS, SHEEN



STAINING, ODOR



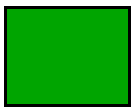
HARDENED NAPL



PETROLEUM IMPACTS SATURATION & SHEENS



PETROLEUM IMPACTS STAINING & ODORS



NO OBSERVED IMPACTS



PURIFIER WASTE AND ODOR

Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** RW1	
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0	NA		NA			Concrete	Approximately 1 foot of CONCRETE	RW1(0-1)
2							FILL	
4								
6								
8								
10	NA		NA			FILL		RW1(1-17)
12								
14								
16								
18	NA		NA				FILL, NAPL coating	RW1(17-19)
20	NA		NA			PT	PEAT, NAPL coating	RW1(19-20)

Remarks: Boring Terminated (ft): 45.0

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See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** RW1	
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT, NAPL stringers and lenses	RW1(20-24)
24								
	NA		NA				SILTY fine SAND, NAPL coated	RW1(24-25)
26							SILTY fine SAND, NAPL saturated	
28								
30								
32						SP		
	NA		NA					RW1(25-40)
34								
36								
38								
40								

Remarks: Boring Terminated (ft): 45.0

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See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** RW1	
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.4	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL	CLAY	RW1(40-45)
44								

Remarks: Boring Terminated (ft): 45.0

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See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** RW2	
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0	NA		NA			Concrete	Approximately 1 foot of CONCRETE	RW2(0-1)
2						FILL	FILL material	
4								
6								
8	NA		NA					RW2(1-15)
10								
12								
14								
16	NA		NA				FILL material, NAPL saturated	RW2(15-16)
18	NA		NA				FILL material	RW2(16-18)
	NA		NA				FILL material, heavily NAPL coated	RW2(18-19)
20	NA		NA			PT	PEAT/organic material	RW2(19-28)

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** RW2	
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22								
24	NA		NA			PT		RW2(19-28)
26								
28								
30	NA		NA			SP	SILTY fine SAND	RW2(28-30)
32	NA		NA			ML-CL	SILT/CLAY	RW2(30-34)
34								
	NA		NA				SILTY fine SAND, NAPL saturated	RW2(34.5-35)
36	NA		NA				SILTY fine SAND	RW2(35-36.5)
38	NA		NA			SP	SILTY fine SAND, NAPL saturated	RW2(36.5-46)
40								

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** RW2	
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.8	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP		RW2(36.5-46)
44								
46							CLAY	
48	NA		NA			CL		RW2(46-51)
50								

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** RW3	
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW3(0-20.5)
12								
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 53.0

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See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** RW3	
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	NA		NA			FILL		RW3(0-20.5)
	NA		NA				FILL material, heavily NAPL coated	RW3(20.5-21)
22	NA		NA			PT	PEAT/organic material	
24								
26								RW3(21-30)
28								
30								
32	NA		NA			SP	SILTY fine SAND	RW3(30-32)
	NA		NA				SILTY fine SAND, NAPL saturated	RW3(32-32.5)
	NA		NA				SILTY fine SAND	RW3(32.5-33)
34	NA		NA			ML-CL	SILT/CLAY	
36								RW3(33-36)
	NA		NA			SP	SILTY fine SAND	RW3(36-37)
38	NA		NA				SILTY fine SAND, NAPL saturated	RW3(37-41.5)
40								

Remarks: Boring Terminated (ft): 53.0

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See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** RW3	
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
	NA		NA			SP		RW3(37-41.5)
42	NA		NA			SC	Interbedded SANDY CLAY unit, NAPL saturated	RW3(41.5-43)
44	NA		NA			CL	CLAY	RW3(43-45)
46	NA		NA			SP	SILTY fine SAND, NAPL saturated	RW3(45-46)
48	NA		NA			CL	CLAY	RW3(46-53)
50								
52								

Remarks: Boring Terminated (ft): 53.0

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See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** RW4	
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW4(0-20)
12								
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** RW4	
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	NA		NA			FILL	FILL material, NAPL saturated	RW4(20-21)
22	NA		NA			PT	PEAT/organic material	RW4(21-26)
24								
26								
28	NA		NA			SP	SILTY fine SAND	RW4(26-37)
30								
32								
34								
36								
38	NA		NA			CL	CLAY	RW4(37-39)
40	NA		NA			SP	SILTY fine SAND	RW4(39-44)

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** RW4	
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP		RW4(39-44)
44								
46	NA		NA				SILTY fine SAND, NAPL saturated	RW4(44-46)
48	NA		NA			CL	CLAY	RW4(46-51)
50								

Remarks: Boring Terminated (ft): 51.0

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See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** RW5	
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW5(0-18)
12								
14								
16								
18								
20	NA		NA				FILL material, NAPL coated, coal from 19 -21 ft bgs	RW5(18-21)

Remarks: Boring Terminated (ft): 51.0

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See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** RW5	
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	NA		NA			FILL		RW5(18-21)
22	NA		NA			PT	PEAT/organic material	RW5(21-29)
24								
26								
28								
30	NA		NA			SP	SILTY fine SAND	RW5(29-32)
32	NA		NA			SP	SILTY fine SAND, streaks of NAPL staining and NAPL coating	RW5(32-35)
34	NA		NA			SP	SILTY fine SAND	RW5(35-37)
36	NA		NA			CL	CLAY	RW5(37-38.5)
38	NA		NA			SP	SILTY fine SAND, pockets of NAPL coating/saturation	RW5(38.5-42)
40								

Remarks: Boring Terminated (ft): 51.0

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See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** RW5	
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP		RW5(38.5-42)
44	NA		NA			CL	CLAY	RW5(42-50)
46								
48								
50								

Remarks: Boring Terminated (ft): 51.0

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See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** RW6	
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW6(0-18)
12								
14								
16								
18								
	NA		NA				FILL material, NAPL saturated	RW6(18-19)
20	NA		NA			PT	PEAT/organic material	RW6(19-24)

Remarks: Boring Terminated (ft): 47.0

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See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** RW6	
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW6(19-24)
24								
	NA		NA				SILTY fine SAND, NAPL coated	RW6(24-25)
26							SILTY fine SAND, NAPL coated	
28	NA		NA					RW6(25-30)
30								
	NA		NA				SILTY fine SAND	RW6(30-32)
32						SP		
34							SILTY fine SAND, NAPL saturated	
36	NA		NA					RW6(32-42)
38								
40								

Remarks: Boring Terminated (ft): 47.0

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Fax: (860) 263-5777

See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** RW6	
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	CLAY	RW6(32-42)
44	NA		NA			CL		RW6(42-47)
46								

Remarks: Boring Terminated (ft): 47.0

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See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** RW7	
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA		NA			FILL	FILL material	RW7(0-20)
4								
6								
8								
10								
12								
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** RW7	
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW7(20-25)
24								
26	NA		NA			SP	SILTY fine SAND, 1" NAPL saturated layer at 28 ft bgs	RW7(25-30)
28								
30	NA		NA				SILTY fine SAND	RW7(30-33)
32								
34	NA		NA				SILTY fine SAND, NAPL saturated	RW7(33-43)
36								
38								
40								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.
NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid
Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** RW7	
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	CLAY	RW7(33-43)
44								
46	NA		NA			CL		RW7(43-48)
48								
50								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** RW8	
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW8(0-18)
12								
14								
16								
18								
20	NA		NA			PT	PEAT/organic material, 2" NAPL saturated layer 18 ft bgs	RW8(18-25)

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** RW8	
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW8(18-25)
24								
26							SILTY fine SAND	
28								
30	NA		NA					RW8(25-35)
32						SP		
34								
36							SILTY fine SAND, bands of NAPL saturation	
38	NA		NA					RW8(35-43)
40								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** RW8	
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP		RW8(35-43)
44	NA		NA			CL	CLAY	RW8(43-48)
46								
48								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** RW9	
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.2	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8	NA		NA					RW9(0-16)
10						FILL		
12								
14								
16								
	NA		NA				FILL material, NAPL stained	RW9(16-17)
18	NA		NA				FILL material, NAPL saturated 18.5 to 19 ft bgs	RW9(17-19)
20	NA		NA			PT	PEAT/organic material	RW9(19-25)

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** RW9	
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.2	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW9(19-25)
24								
26							SILTY fine SAND	
28								
30	NA		NA			SP		RW9(25-35)
32								
34								
36	NA		NA				SILTY fine SAND, NAPL saturated	RW9(35-37)
38	NA		NA			SM	Interbedded SAND and silt, NAPL saturated	RW9(37-44.5)
40								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** RW9	
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.2	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SM	CLAY	RW9(37-44.5)
44								
46	NA		NA			CL		RW9(44.5-50)
48								
50								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** RW10	
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA		NA			FILL	FILL material	RW10(0-14)
4								
6								
8								
10								
12								
14								
	NA		NA				FILL material, NAPL coated	RW10(14-15)
16	NA		NA				FILL material, heavily NAPL coated	RW10(15-17)
18	NA		NA				FILL material	RW10(17-18)
20	NA		NA			PT	PEAT/organic material	RW10(18-24)

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** RW10	
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW10(18-24)
24								
	NA		NA				SILTY fine SAND	RW10(24-25)
26							SILTY fine SAND, NAPL coated	
28								
30	NA		NA			SP		RW10(25-34)
32								
34								
36	NA		NA				SILTY fine SAND, NAPL saturated	RW10(34-38)
38								
40	NA		NA			SC	Interbedded SAND and CLAY, NAPL saturated	RW10(38-41)

Remarks: Boring Terminated (ft): 48.0

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Fax: (860) 263-5777

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** RW10	
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	NA		NA			SC	CLAY	RW10(38-41)
42	NA		NA			CL		RW10(41-46)
44								
46								
48								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** RW11	
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8	NA		NA					RW11(0-16)
10						FILL		
12								
14								
16								
18	NA		NA				FILL material, NAPL saturated	RW11(16-18)
20	NA		NA				FILL material	RW11(18-20)

Remarks: Boring Terminated (ft): 46.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** RW11	
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW11(20-24)
24								
26	NA		NA			SP	SILTY fine SAND, NAPL coated lenses.	RW11(24-30)
28								
30								
32	NA		NA				SILTY fine SAND, NAPL saturated, beds of NAPL saturation from 30 to 34 ft bgs	RW11(30-40)
34								
36								
38								
40								

Remarks: Boring Terminated (ft): 46.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** RW11	
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL	CLAY	RW11(40-46)
44								
46								

Remarks: Boring Terminated (ft): 46.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** RW12	
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8	NA		NA			FILL		RW12(0-16)
10								
12								
14								
16								
	NA		NA				FILL material, NAPL saturated	RW12(16-17)
18	NA		NA				FILL material	RW12(17-18)
	NA		NA			PT	PEAT/organic material	RW12(18-24)
20								

Remarks: Boring Terminated (ft): 46.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** RW12	
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW12(18-24)
24								
26	NA		NA			SP	SILTY fine SAND	RW12(24-27)
28							SILTY fine SAND, heavily NAPL coated bands	
30	NA		NA					RW12(27-34)
32								
34								
36	NA		NA				SILTY fine SAND, NAPL saturated	RW12(34-40.5)
38								
40								

Remarks: Boring Terminated (ft): 46.0

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See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** RW12	
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	NA		NA			SP	CLAY	RW12(34-40.5)
42	NA		NA			CL		RW12(40.5-46)
44								
46								

Remarks: Boring Terminated (ft): 46.0

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Fax: (860) 263-5777

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** RW13	
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.7	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW13(0-18)
12								
14								
16								
18								
20	NA		NA			PT	PEAT/organic material	RW13(18-25)

Remarks: Boring Terminated (ft): 46.0

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Fax: (860) 263-5777

See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** RW13	
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.7	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW13(18-25)
24								
26	NA		NA				SILTY fine SAND	RW13(25-27)
28	NA		NA				Silty fine SAND, heavily NAPL coated	RW13(27-32)
30								
32						SP	SILTY fine SAND, NAPL saturated	
34								
36	NA		NA					RW13(32-40)
38								
40								

Remarks: Boring Terminated (ft): 46.0

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See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** RW13	
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 10.7	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	NA		NA			SP	SILTY fine SAND	RW13(40-41)
42							CLAY	
44	NA		NA			CL		RW13(41-46)
46								

Remarks: Boring Terminated (ft): 46.0

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See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** RW14	
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW14(0-16.5)
12								
14								
16								
18	NA		NA				FILL material, NAPL saturated	RW14(16.5-18)
20	NA		NA			PT	PEAT/organic material	RW14(18-25)

Remarks: Boring Terminated (ft): 45.0

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See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** RW14	
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW14(18-25)
24								
26	NA		NA			SP	SILTY fine SAND	RW14(25-26)
28	NA		NA				SILTY fine SAND, NAPL coated, few bands of NAPL saturation	RW14(26-32)
30								
32								
34	NA		NA				SILTY fine SAND, NAPL saturated	RW14(32-39)
36								
38								
40	NA		NA				SILTY fine SAND	RW14(39-40)

Remarks: Boring Terminated (ft): 45.0

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See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** RW14	
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.0	**Drilling Company:** Boart Long Year
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL	CLAY	RW14(40-45)
44								

Remarks: Boring Terminated (ft): 45.0

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See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** RW15	
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA		NA			FILL	FILL material	RW15(0-20)
4								
6								
8								
10								
12								
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 45.0

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See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** RW15	
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW15(20-25)
24								
26	NA		NA			SP	SILTY fine SAND, NAPL coated	RW15(25-30)
28								
30								
32	NA		NA				SILTY fine SAND, NAPL saturated	RW15(30-40)
34								
36								
38								
40								

Remarks: Boring Terminated (ft): 45.0

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See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** RW15	
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.3	**Drilling Company:** Boart Long Year
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL	CLAY	RW15(40-45)
44								

Remarks: Boring Terminated (ft): 45.0

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Fax: (860) 263-5777

See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW16

Client: National Grid	**Location:** RW16	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material, lots of brick from 10 to 15 ft bgs	
4								
6								
8								
10	NA		NA			FILL		RW16(0-20)
12								
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW16

Client: National Grid	**Location:** RW16	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW16(20-25)
24								
26	NA		NA			OH	CLAY with organics	RW16(25-27)
28	NA		NA			SP	SILTY fine SAND, NAPL coated bands	RW16(27-30)
30								
32	NA		NA				SILTY fine SAND, NAPL saturated	RW16(30-32)
34	NA		NA				SILTY fine SAND, NAPL coated	RW16(32-35)
36							SILTY fine SAND, NAPL saturated	
38	NA		NA					RW16(35-40)
40								

Remarks: Boring Terminated (ft): 50.0

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Fax: (860) 263-5777

See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW16

Client: National Grid	**Location:** RW16	
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 11.7	**Drilling Company:** Boart Long Year
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	SILTY fine SAND, NAPL saturated pockets of SAND	RW16(40-45)
44								
46	NA		NA			CL	CLAY	RW16(45-50)
48								
50								

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** RW17	
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Logged By:** Kristen Durocher
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2						Fill	Fill material, some brick fragments and glass.	
4								
6								
8								
10								
12	NA		NA			ML	Sandy Silt, grey to black, fine grained, some coarse to fine gravel.	RW17(0-26.5)
14								
16	NA		NA			PT	Fibrous and Friable Peat	RW17(26-26.5)
18								
20								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** RW17	
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Logged By:** Kristen Durocher
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW17(26-26.5)
24								
26								
28	NA		NA			SP	SAND, NAPL saturated/Sand NAPL coated	RW17(26.5-40)
30								
32								
34								
36								
38								
40								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** RW17	
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Logged By:** Kristen Durocher
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.4	**Drilling Company:** Boart Long Year
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	CLAY	RW17(40-43)
44	NA		NA			CL		RW17(43-45)
46								
48								

Remarks: Boring Terminated (ft): 48.0

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See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** RW18	
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW18(0-19)
12								
14								
16								
18								
20	NA		NA				FILL, coal, NAPL coated, NAPL staining at 19 ft bgs	RW18(19-21)

Remarks: Boring Terminated (ft): 50.0

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See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** RW18	
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	NA		NA			FILL		RW18(19-21)
22	NA		NA				PEAT/organic material	
24								RW18(21-26)
26								
28	NA		NA			PT	SILTY fine SAND	
30								RW18(26-33)
32								
34	NA		NA				SILTY fine SAND, heavily NAPL coated pockets of SAND	
36								
38								RW18(33-40)
40								

Remarks: Boring Terminated (ft): 50.0

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Rocky Hill, CT 06067
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Fax: (860) 263-5777

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** RW18	
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.6	**Drilling Company:** Boart Long Year
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			PT	SILTY fine SAND, NAPL saturated	RW18(40-45)
44								
46							Gray CLAY	
48	NA		NA			CL		RW18(45-50)
50								

Remarks: Boring Terminated (ft): 50.0

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Fax: (860) 263-5777

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** RW19	
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.8	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA		NA			FILL	FILL material	RW19(0-15)
4								
6								
8								
10								
12								
14								
16	NA		NA				FILL material, NAPL coated	RW19(15-20)
18								
20								

Remarks: Boring Terminated (ft): 52.0

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See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** RW19	
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.8	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW19(20-27)
24								
26								
28	NA		NA			SP	SILTY fine SAND	RW19(27-34)
30								
32								
34								
36	NA		NA			CL	CLAY/SILT	RW19(34-43)
38								
40								

Remarks: Boring Terminated (ft): 52.0

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Fax: (860) 263-5777

See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** RW19	
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 12.8	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL		RW19(34-43)
44	NA		NA			SP	SILTY fine SAND, NAPL saturated	RW19(43-47)
46								
48	NA		NA			CL	CLAY	RW19(47-52)
50								
52								

Remarks: Boring Terminated (ft): 52.0

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See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** RW20	
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8								
10	NA		NA			FILL		RW20(0-19)
12								
14								
16								
18								
20	NA		NA				FILL material, NAPL coated	RW20(19-21)

Remarks: Boring Terminated (ft): 52.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** RW20	
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20	NA		NA			FILL		RW20(19-21)
22	NA		NA			PT	PEAT/organic material	RW20(21-30)
24								
26								
28								
30								
32	NA		NA			SP	SILTY fine SAND	RW20(30-37)
34								
36								
38	NA		NA				SILTY fine SAND, NAPL saturated	RW20(37-47)
40								

Remarks: Boring Terminated (ft): 52.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** RW20	
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.0	**Drilling Company:** Boart Long Year
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	CLAY	RW20(37-47)
44								
46								
48	NA		NA			CL		RW20(47-52)
50								
52								

Remarks: Boring Terminated (ft): 52.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** RW21	
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2							FILL material	
4								
6								
8	NA		NA			FILL		RW21(0-16)
10								
12								
14								
16								
	NA		NA				FILL material, NAPL coated	RW21(16-17)
18	NA		NA				FILL material, NAPL saturated	RW21(17-18)
	NA		NA			PT	PEAT/organic material	RW21(18-26)
20								

Remarks: Boring Terminated (ft): 50.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** RW21	
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT		RW21(18-26)
24								
26							SILTY fine SAND	
28								
30								
32	NA		NA			SP		RW21(26-39)
34								
36								
38								
40	NA		NA				SILTY fine SAND, NAPL saturated	RW21(39-45)

Remarks: Boring Terminated (ft): 50.0

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See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** RW21	
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):** 13.2	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			SP	CLAY	RW21(39-45)
44								
46	NA		NA			CL		RW21(45-50)
48								
50								

Remarks: Boring Terminated (ft): 50.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** RW22	
Project: Equity Former MGP Site	**Northing:** 686515.4 **Easting:** 649156.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0	NA		NA				Concrete	RW22(0-1)
2	NA		NA				FILL material	RW22(1-4)
4	NA		NA				Concrete slab	RW22(4-5)
6	NA		NA				FILL material	RW22(5-18)
8								
10						FILL		
12								
14								
16								
18	NA		NA				FILL material, NAPL coated	RW22(18-20)
20								

Remarks: Boring Terminated (ft): 46.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** RW22	
Project: Equity Former MGP Site	**Northing:** 686515.4 **Easting:** 649156.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW22(20-25)
24								
26	NA		NA			SP	SILTY fine SAND, bands of NAPL coating/staining	RW22(25-35)
28								
30								
32								
34								
36	NA		NA				SILTY fine SAND, NAPL saturated	RW22(35-41)
38								
40								

Remarks: Boring Terminated (ft): 46.0

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See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** RW22	
Project: Equity Former MGP Site	**Northing:** 686515.4 **Easting:** 649156.8	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40	NA		NA			SP	CLAY	RW22(35-41)
42								
44	NA		NA			CL		RW22(41-46)
46								

Remarks: Boring Terminated (ft): 46.0

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See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** RW23	
Project: Equity Former MGP Site	**Northing:** 686508.9 **Easting:** 649137.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
0								
2	NA		NA				Concrete	RW23(0-2)
4	NA		NA				FILL material	RW23(2-4)
6	NA		NA				Concrete slab	RW23(4-5)
8								
10						FILL		
12								RW23(4-20)
14								
16								
18								
20								

Remarks: Boring Terminated (ft): 44.0

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Fax: (860) 263-5777

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** RW23	
Project: Equity Former MGP Site	**Northing:** 686508.9 **Easting:** 649137.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
20								
22	NA		NA			PT	PEAT/organic material	RW23(20-25)
24								
26	NA		NA			SP	SILTY fine SAND, NAPL saturated	RW23(25-30)
28								
30								
32	NA		NA				SILTY fine SAND	RW23(30-35)
34								
36	NA		NA				SILTY fine SAND, NAPL saturated	RW23(35-39)
38								
40	NA		NA			CL	CLAY	RW23(39-44)

Remarks: Boring Terminated (ft): 44.0

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See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** RW23	
Project: Equity Former MGP Site	**Northing:** 686508.9 **Easting:** 649137.9	**Logged By:** Steve Wright
Project #: 60137362	**Ground Elevation (NAVD 88):**	**Drilling Company:** Boart Long Year
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length	Blowcounts per 6"	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Lab Sample ID
40								
42	NA		NA			CL		RW23(39-44)
44								

Remarks: Boring Terminated (ft): 44.0

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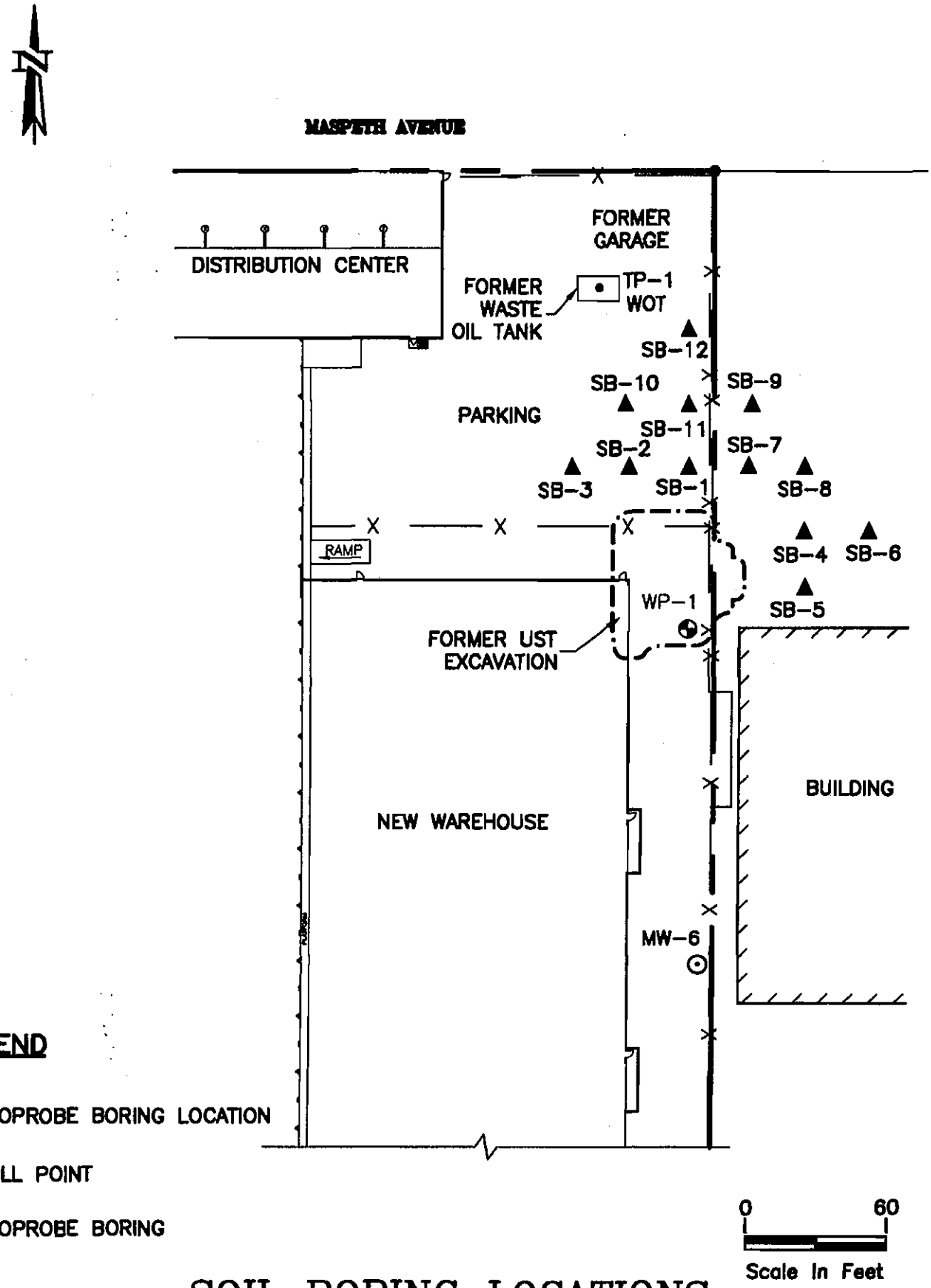
See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface / NAPL - Non-aqueous phase liquid

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

Off-Site by Others



SOIL BORING LOCATIONS

FEDEX GROUND

300 MASPETH AVE, BROOKLYN, NEW YORK

SN39936-2
101303

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 13		Sampled at 1' - 2' SB-1	1 - 4'	Slightly moist		Sandy silt: Large gravel, black staining.	Petroleum odor
2								
3								
4	~ 7			4' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 9		Sampled at 2' - 4' SB-2	1' - 4'	Slightly moist		Silt: small gravel, 3% sand, brick pieces, black staining	Petroleum odor
2								
3								
4	~ 3			4' - 6'	Moist		Same as above	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Sand: medium grain, brown, with medium gravel to Silt: with black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 33		Sampled at 2' - 4' SB-3	1' - 4'	Moist		Silt: small gravel, brick pieces, 3% sand, black staining	Petroleum odor
2								
3								
4	~ 6			4' - 6'	Very moist		Silt: very moist, medium gravel, black staining	Petroleum odor
5								
6	~ 2			6' - 8'	Very moist		Silt: clayey, grey, samll gravel, black staining	Petroleum odor
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~4		Sampled at 2' - 4' SB-4	1' - 4'	Slightly moist		Silt: with 50% sand, medium gravel, brownish grey to black staining and brick pieces	Methane odor
2								
3								
4	0			4' - 8'	Moist		Silt: small gravel, black staining	Methane odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-5	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1				0 - 1'			Asphlat	
2	~ 9		Sampled at 2' - 4' SB-5	1' - 4'	Slightly moist		Silt: small gravel, brick pieces	Petroleum odor
3								
4								
5	0			4' - 8'	Saturated		Same as above	
6								
7								
8								
9							**End of boring**	
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-6	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	~ 5		Sampled at 2' - 4' SB-6	1' - 4'	Slightly moist		Silt: small gravel , brick pieces, 3% sand	Petroleum odor
2								
3								
4	~ 2			4' - 8'	Moist		Same as above	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Client: FedEx Ground		Boring No.: SB-7	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: 3% sand, small gravel, brick pieces, brown with some staining	
2								
3								
4	0		Sampled at 4' - 6' SB-8	4' - 8'	Moist		Silt: brick pieces, small gravel, black staining	
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-8	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: small gravel, brick pieces, black staining	Petroleum odor
2								
3								
4	0		Sampled at 4' - 6' SB-8	4' - 8'	Slightly moist		Silt: small gravel, to coarse sand, organic debris	Slight petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-9	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1 - 4	0			1' - 4'	Slightly moist		Silt: with 15% sand, small gravel, dark staining, brick pieces	
4 - 6	0			4' - 6'	Slightly moist		Silt: with 50% sand, small gravel, dark staining, brick pieces	
6 - 8	~ 5		Sampled at 6' - 8 SB-9	6' - 8'	Saturated		Silt: with brick pieces, small gravel, dark staining	Slight petroleum odor
8							**End of boring**	

SOIL BORING LOG

Client: FedEx Ground	Boring No.: SB-10	Gannett Fleming, Inc.	
Project #: 39936.001	Sheet 1 of 1	480 Forest Avenue	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	Locust Valley, NY 11560	
Drilling Co: Associated Environmental Services		(516) 671-8440	
Method: Direct push (Geoprobe)	Location of boring (not to scale)		
Personnel: Anthony Vanatta			
Total Depth: 8' Depth to Water:			

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1	0			1' - 4'	Slightly moist		Silt: brick pieces, dark staining	Petroleum odor
2								
3								
4	~13		Sampled at 4' - 6' SB-10	4' - 8'	Moist		Silt: medium gravel, brick pieces	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: SB-11	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.001		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 11/6/02	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Direct push (Geoprobe)			
Personnel: Anthony Vanatta			
Total Depth: 8'	Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 1'			Asphalt	
1				1' - 4'			Did not record due mixing with muddy fill that was pushed over the area that day	
2								
3								
4	~4		Sampled at 4' - 6' SB-11	4' - 6'	Moist		Silt: medium gravel, brick pieces,	Petroleum odor
5								
6								
7								
8							**End of boring**	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Client: FedEx Ground	Boring No.: SB-12	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 39936.001	Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY	Date: 11/6/02	
Drilling Co: Associated Environmental Services	Location of boring (not to scale)	
Method: Direct push (Geoprobe)		
Personnel: Anthony Vanatta		
Total Depth: 8' Depth to Water:		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1								
2								
3								
4								
5								
6								
7	~30			6' - 8'	Moist		Silt: medium gravel, brick pieces, black staining	Petroleum odor Sampled with excavator
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-1	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/8/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow-stem auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 8.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 0.5'			Asphalt	
1	0.1	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger Petroleum-like odor Dark coloring
2								
3								
4								
5	0.0	13 17		5' - 6'	Saturated	1.75'	Light brown, soft, CLAY with trace M Sand, with little brick frag	No odor Dark staining
6		15 15		6' - 7'			Dark brown, loose, CLAY with little brick fragments, with trace Gravel	
7	NA	10 10		7' - 9'	NA	0	NA	No recovery
8		13 12						
9	0.0	14 25	B-1 (9' - 11')	9' - 11'	Saturated	2'	Dark brown, loose CLAY, with some F to M Gravel, with trace F Sand	No odor Dark staining
10		21 14						
11								**Well set at 20' bgs**
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-2	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 7.5'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
				0 - 0.5'			Asphalt	
1	0.4	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
5	37.0	NA		5' - 7'	Slightly moist to moist	3.5'	Dark brown, loose, F Sand with little F Gravel	Petroleum-like odor Dark staining
7			B-2 7' - 7.5'	7.5' - 8'	Saturated			
8								**Well set at 20' bgs**
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-3	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 10'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1	NA			0 - 2'	NA	NA	Concrete	
2	47.1			2' - 5'	Slightly moist	3.5'	Dark brown, M soft, CLAY with little F Gravel	Dark Staining Petroleum-like odor
3								
4								
5				5' - 6'			Black F Sand	
6	125.0			6' - 7'	Very moist	3.75'	Dark brown, M stiff CLAY with trace brick fragments	Petroleum-like odor
7				7' - 8'			Light brown, loose, F SAND with trace F Gravel	Heavy staining
8		B-3 (9' - 10')		8' - 10'			Dark brown, M stiff CLAY with trace brick fragments	
9								
10				10' - 11'	Saturated			**Well set at 20' bgs**
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-4	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Geoprobe (Direct push method)			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 9'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.0			0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger
2								
3								
4								
5	0.0			5' - 6'	Slightly moist	3'	Light brown, loose, F SAND, with trace F Gravel	No odor No staining
6	0.0		B-4 (8' - 9')	6' - 9'	Slightly moist		Light brown, M stiff, CLAY, with trace F Gravel	
7								
8								
9				9' - 11'	Saturated			**Well set at 20' bgs**
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-5	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/8/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow Stem Auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 8'		

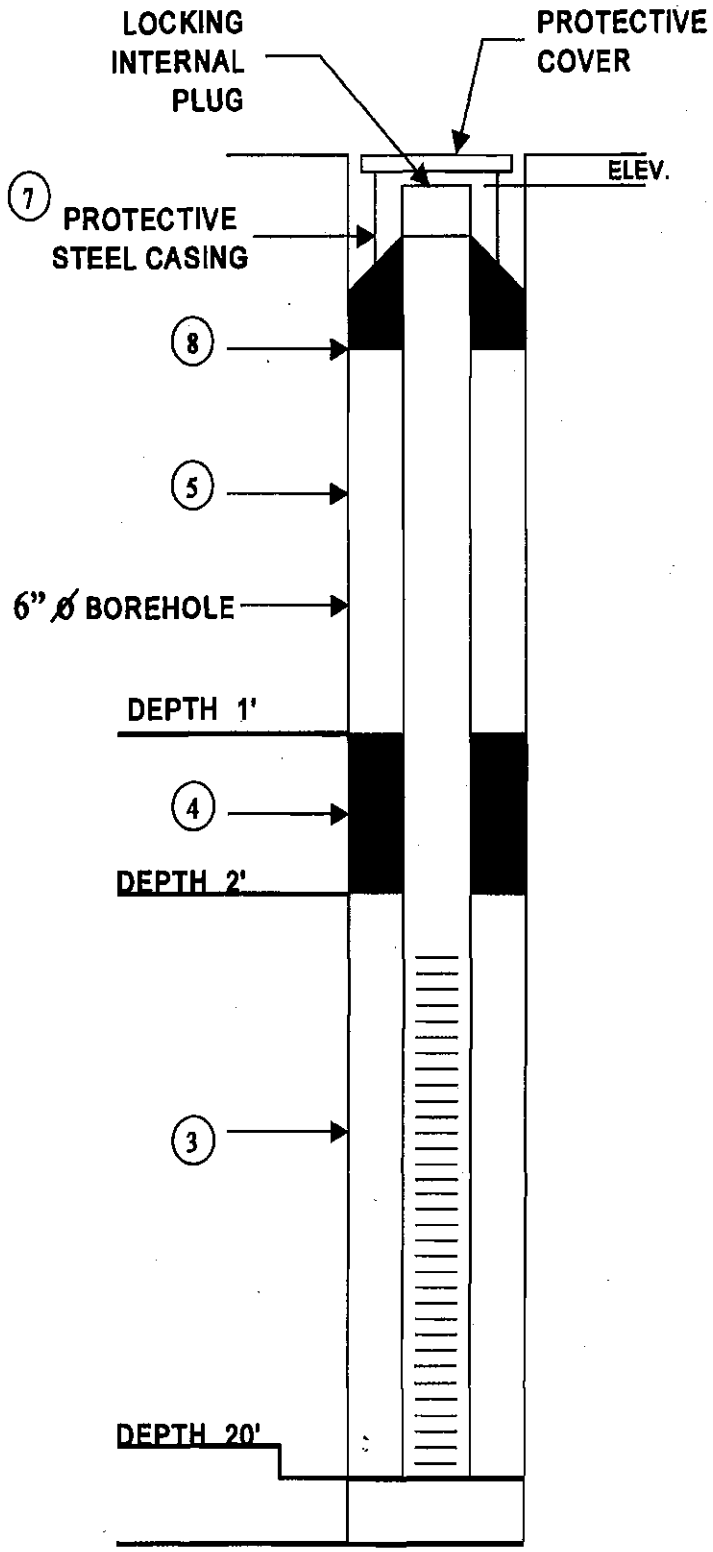
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.0			0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
2								
3								
4								
5	0.0	5		5' - 5.5'	Moist	1.75'	RCA fill material	No odor
6		17 15 14		5.5' - 7'			Dark brown, M tight, CLAY with trace brick fragments, trace F Sand, trace rock fragments	Dark staining
7	3.7	15 15		7' - 8.5'	Moist	1.75'	Dark brown, M tight, CLAY with trace brick/rock fragments, trace F Sand	Slight creosote-like odor
8		15 15	B-5 (8' - 9')	8.5' - 9'	Saturated		Dark brown, soft , SANDY CLAY, with some wood, with trace C Sand	Dark staining
9								**Well set at 20' bgs**
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

SOIL BORING LOG

Client: FedEx Ground		Boring No.: B-6	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project # : 39936.003		Sheet 1 of 1	
Site Location: 300 Maspeth Avenue, Brooklyn NY		Date: 12/9/03	
Drilling Co: Associated Environmental Services		Location of boring (not to scale)	
Method: Hollow Stem Auger drill rig			
Personnel: Anthony Vanatta			
Total Depth: 20'	Depth to Water: 10'		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
	NA			0 - 0.5'	NA	NA	Asphalt	
1	0.7	NA		0.5' - 5'	Slightly moist	NA	RCA fill material	Hand auger No odor No staining
2								
3								
4								
5	0.0	12		5' - 7'	Slightly moist	1'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
6		29						
		13						
7		15						
	0.0	13		7' - 9'	Slightly moist	1.25'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
8		15						
		18						
9		12						
	0.0	13	B-6 (9' - 10')	9' - 10'	Slightly moist	1.25'	Dark brown, tight, CLAY with trace F Sand, little brick/rock fragments	No odor No staining
10		12						
		17		10' - 11'	Saturated			
11		14						
								Well set at 20' bgs
12								
13								
14								
15								
16								
17								
18								
19								
20								

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/8/03 WELL No.: MW-1

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ___ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ___

LOCKING CAP: YES √ NO ___

8). CONCRETE SEAL: YES √ NO ___

9). DRILLING METHOD:

HOLLOW STEM AUGER

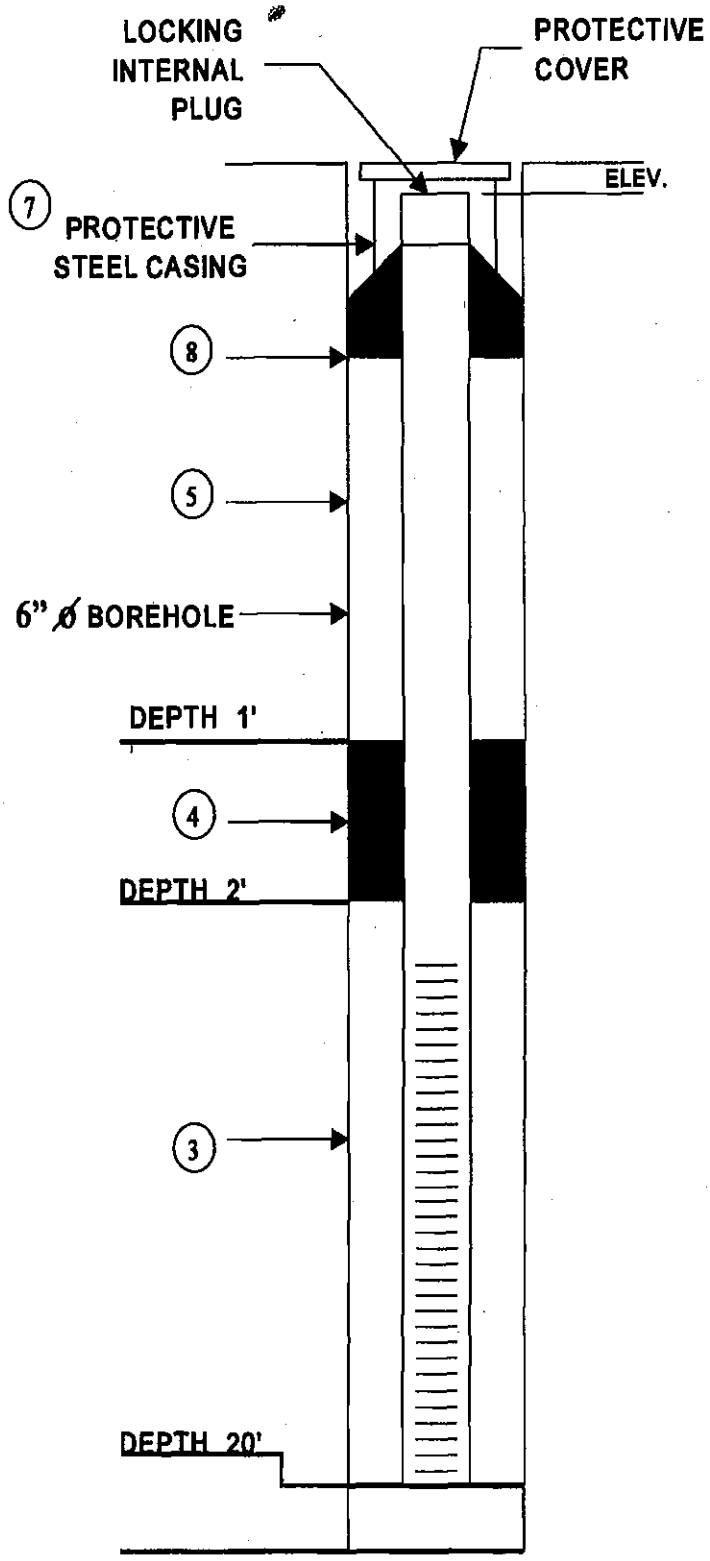
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1100	4.40	Undeveloped
12/15/03	1200	4.98	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/15/03 WELL No.: MW-2

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

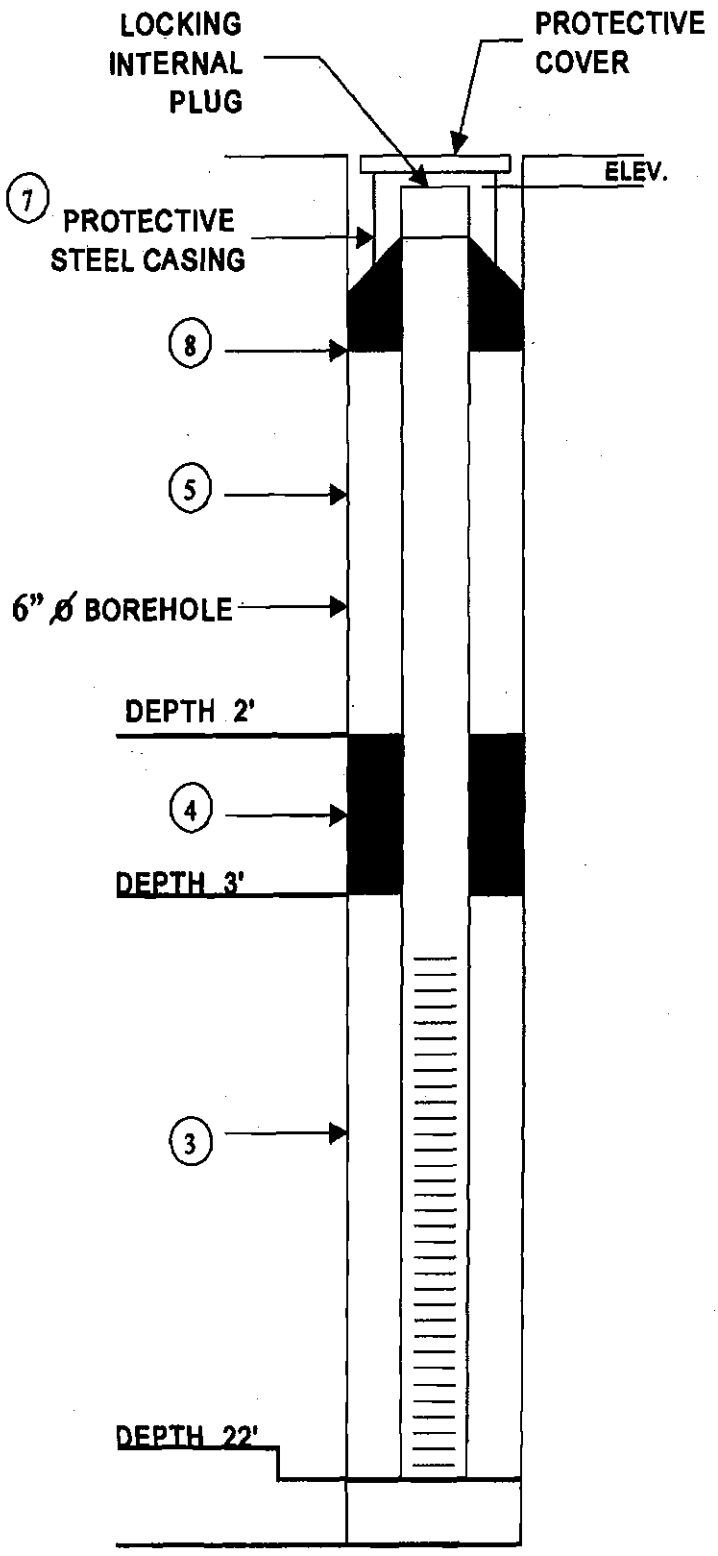
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1630	5.28	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/10/03 WELL No.: MW-3

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 7'

PIPE & SCREEN DIA. : 2"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

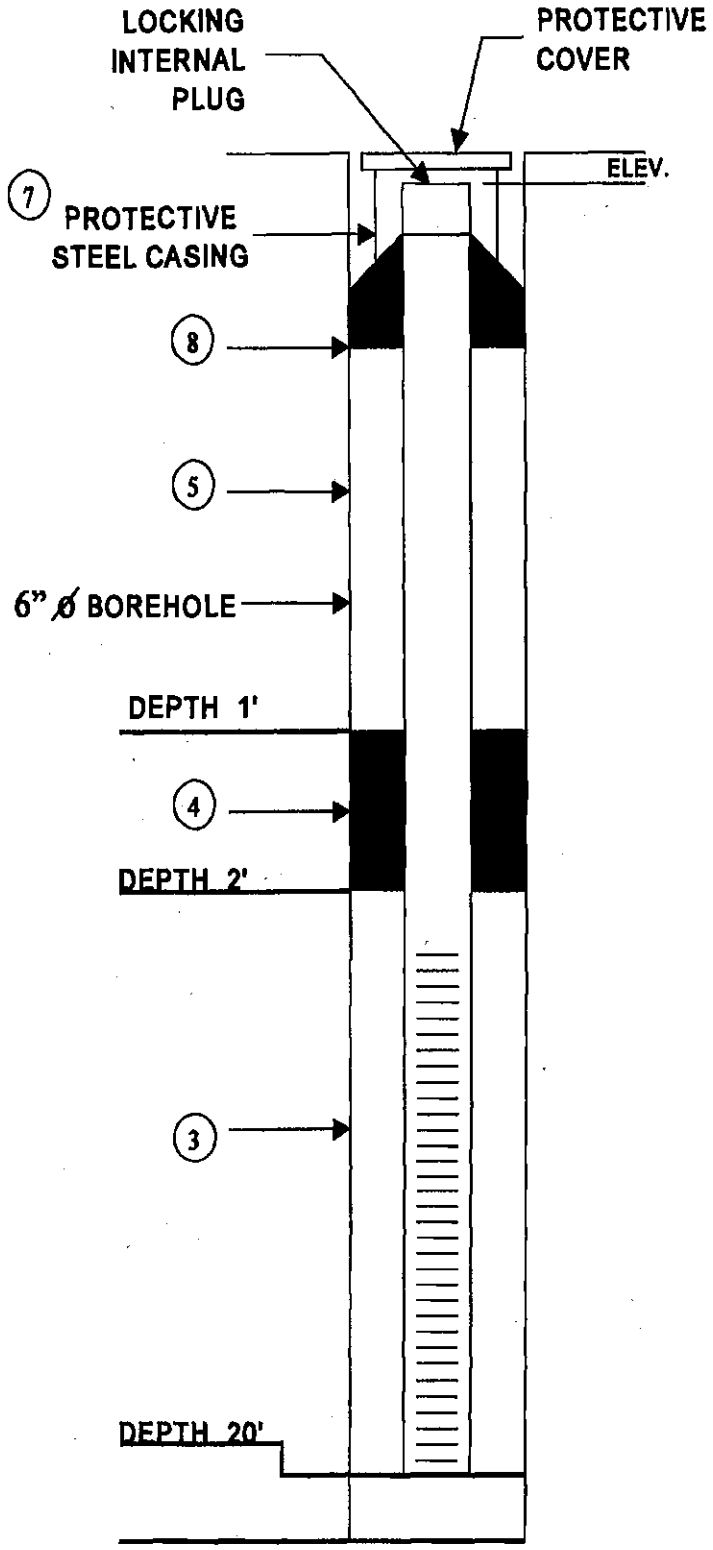
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1330	6.49	Undeveloped
12/15/03	1700	17.52	Developed Poor Recharge

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/15/03 WELL No.: MW-4

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

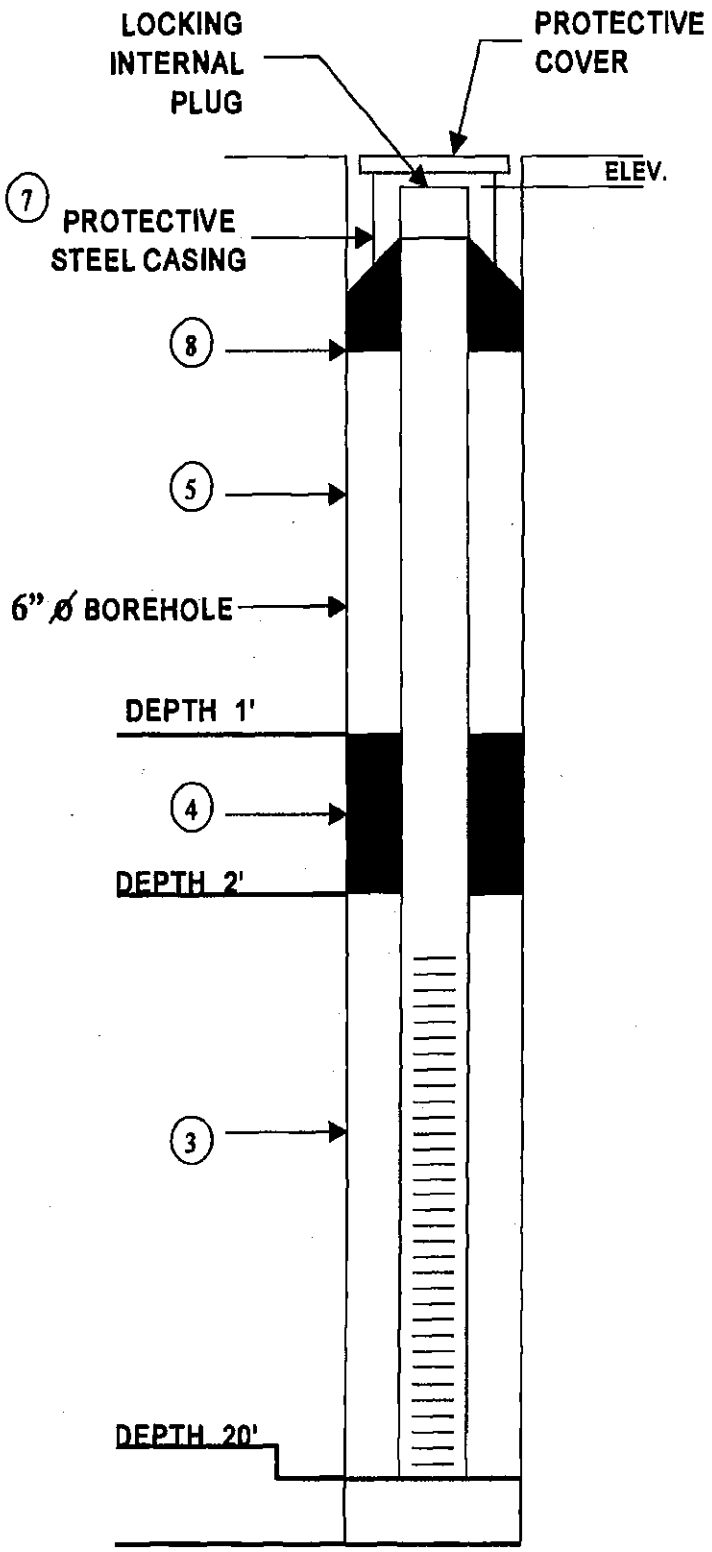
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1315	6.70	Undeveloped
12/15/03	1645	6.78	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/8/03 WELL No.: MW-5

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

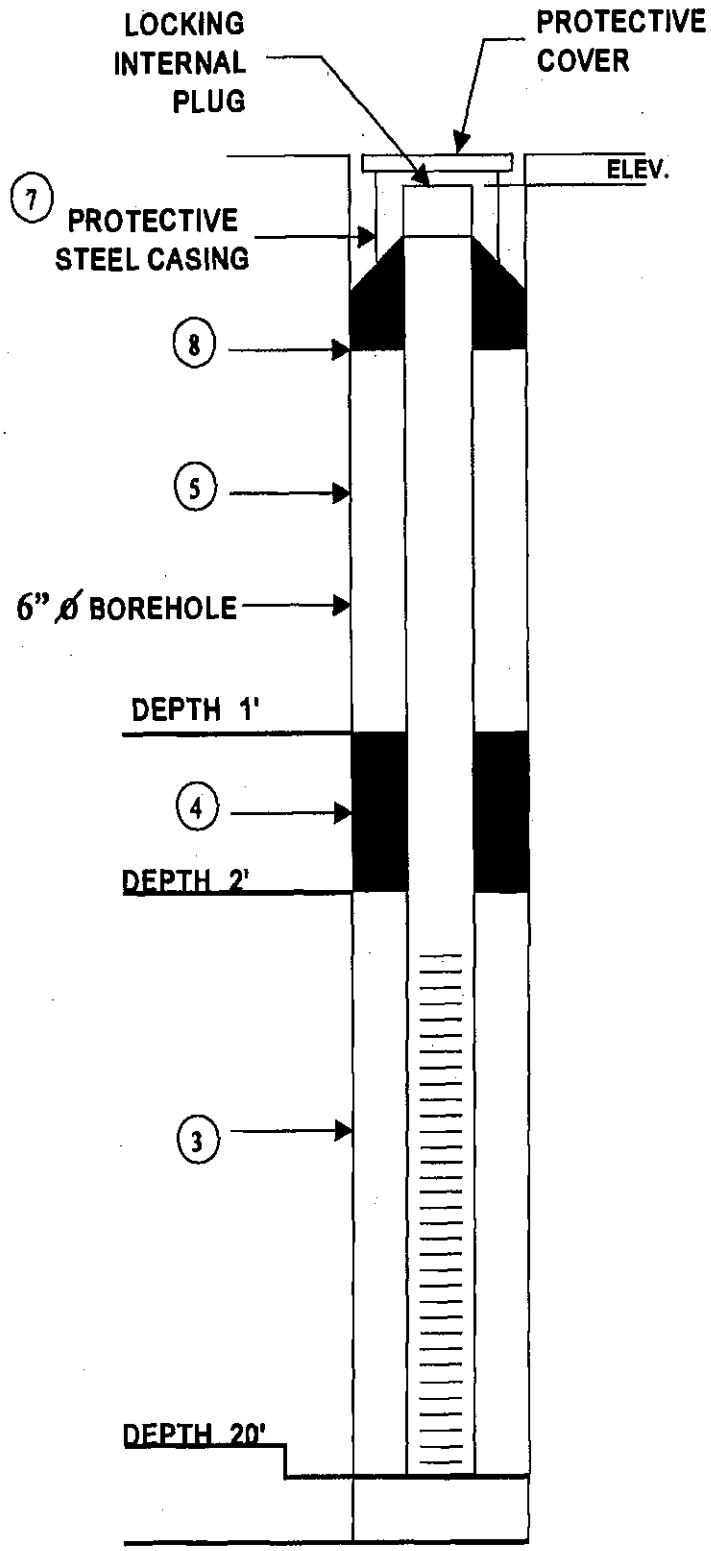
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1545	7.25	Undeveloped
12/15/03	1640	7.56	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/9/03 WELL No.: MW-6

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

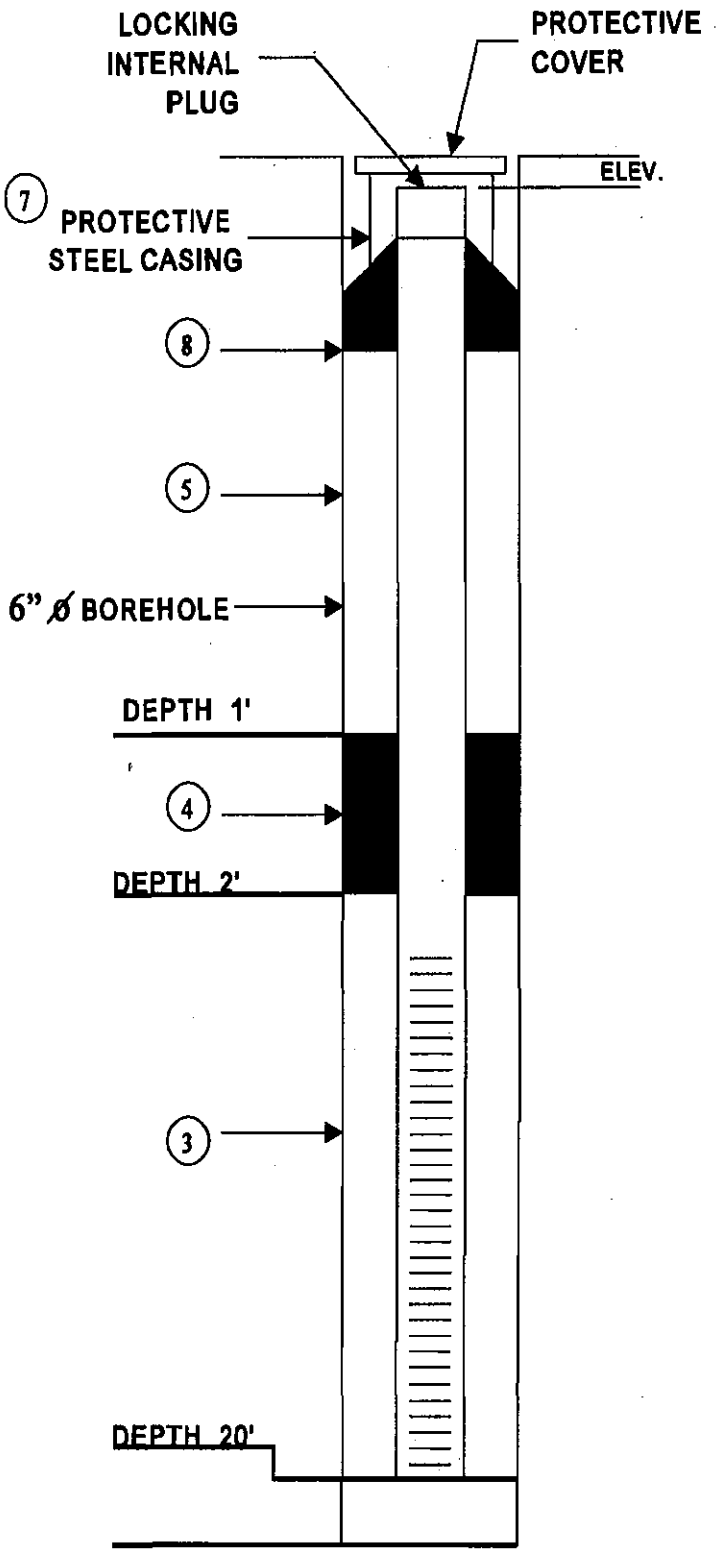
10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1550	8.69	Undeveloped
12/15/03	1650	8.71	Developed

* FROM TOP OF WELL

Gannett Fleming



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 39936.003 CLIENT : FedEx Ground

LOCATION : 300 Maspeth Avenue

DATE : 12/9/03 WELL No.: MW-7

HYDROGEOLOGIST : ANTHONY VANATTA

DRILLING CONTRACTOR : Associated Environmental

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 15'

SLOT SIZE : 25

2). SOLID PIPE TYPE : PVC

SOLID PIPE LENGTH : 5'

PIPE & SCREEN DIA. : 4"

JOINT TYPE-SLIP / GLUED : ____ THREADED √

3). TYPE OF BACKFILL AROUND SCREEN :

2 SAND

4). TYPE OF SEAL (IF INSTALLED) :

BENTONITE

5). TYPE OF BACKFILL: #2 Sand

HOW INSTALLED: POURED IN

6). TYPE OF SURFACE SEAL (IF INSTALLED):

MANHOLE

7). PROTECTIVE CASING: YES √ NO ____

LOCKING CAP: YES √ NO ____

8). CONCRETE SEAL: YES √ NO ____

9). DRILLING METHOD:

HOLLOW STEM AUGER

10). ADDITIVES USED (IF ANY):

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
12/15/03	1555	4.94	Undeveloped
12/15/03	1655	14.21	Developed Poor Recharge

* FROM TOP OF WELL

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-1-1102

BORING LOG
PAGE 1 of 5
GPEC-SB-222

DRAFT

GROUND SURFACE ELEVATION (FT): 17.46 **LOCATIO**
NORTHING (FT): 686986 **EASTING (FT):** 649226 **TAL DE (FT):** 100.0
DRILLED BY: Boart Longyear **VER. HORZ.:** NAVD 88 / NAD83 NY East Zone
LOGGED BY: M. Sweet **ND:** 6/29/2012 - 6/29/2012
DRILLING DETAILS: Sonic Coring / Prosonc M300 Mou
WATER LEVEL DEPTHS (FT): ▽ 5.50 ;
GENERAL NOTE: The elevation noted at ate

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION	WELL DETAILS
15	0		96/NM	PID= 1.6			PLO		(0'- 1') CONCRETE (SW); slab and rubble. FILL. (1'- 3') WIDELY GRADED SAND WITH GRAVEL (SW); wet, black / gray, FILL. (3'- 3') WIDELY GRADED SAND WITH GRAVEL (SW); slight petroleum-like odor, wet, black / gray, FILL.	
10	5	SC1	120/48	PID= 5.8 PID= 35.0 PID= 24.3			TLO		SC1 (7'- 17') SILTY SAND (SM); ~50% sand, fine to coarse, ~30% fines, low plasticity, ~20% gravel, fine to coarse; slight tar-like odor, wet, black green, staining, sheen. FILL.	
5	10			PID= 5.6 PID= 5.4						
0	15	SC2	120/120	PID= 0.0 PID= 7.6			TLO	Env. Sample ID= GPEC-SB-222 (18-19)	SC2 (17'- 18.5') CLAYEY SAND WITH GRAVEL (SC); ~50% sand, fine to coarse, ~30% fines, plastic, ~20% gravel, fine to coarse; moderate tar-like odor, wet, black, soft; sheen. SC2 (18.5'- 21') PEAT (PT); ~100% fines, plastic; organic rich, dark gray brown.	
	20			PID= 0.0						

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE) IN PARTS PER MILLION
IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR
CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

DRAFT_GPEC_ENVIRONMENTAL BORING LOG GREENPOINT BORINGS 07-30-12.GPJ ATLANTIC.GEI DATA TEMPLATE.GDT 9/18/12

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-1-1102

BORING LOG

GPEC-SB-222

DRAFT

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	20			PID= 0.0					
				PID= 0.0					SC2 (21'- 27') LEAN CLAY (CL); ~100% fines, medium plasticity; shell fragments, moderate organic-like odor, moist to very moist, dark gray, soft.
-5				PID= 0.0					
				PID= 6.4			OLO		
	25			PID= 79.3					
				PID= 161					
-10		SC3	120/120	PID= 375					SC3 (27'- 29') FAT CLAY (CH); ~90% fines, high plasticity; ~10% organics, moderate organic-like odor, dark gray, soft to medium stiff.
				PID= 164			OLO		
								Env. Sample ID= GPEC-SB-222 (29-30)	SC3 (29'- 30') PEAT (PT); organic soil, dark brown.
	30			PID= 183					SC3 (30'- 37') CLAYEY SAND (SC); ~50% sand, fine, ~45% fines, low plasticity; ~5% organics, moderate organic-like odor, moderate sulfur-like odor, moist to wet, dark gray, soft.
-15				PID= 9.0					
				PID= 0.0			OLO		
	35			PID= 0.0					
				PID= 0.0					
-20		SC4	120/120	PID= 0.0					SC4 (37'- 47') FAT CLAY (CH); ~100% fines, high plasticity; very moist, light gray, stiff to hard.
				PID= 0.0					
	40			PID= 0.0					
				PID= 0.0					
-25				PID= 0.0					

WELL DETAILS

NOTES:

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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

DRAFT_GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS 07-30-12.GPJ_ATLANTIC.GEI DATA TEMPLATE.GDT 9/18/12

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-1-1102

BORING LOG
PAGE 3 of 5
GPEC-SB-222

DRAFT

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION	WELL DETAILS
	45			PID= 0.0						
-30		SC5	120/120	PID= 0.0					SC5 (47'- 57') FAT CLAY (CH); ~100% fines, high plasticity; very moist, light gray, stiff to hard, some silt layering.	
	50			PID= 0.0						
				PID= 0.0						
-35				PID= 0.0						
	55			PID= 0.0						
-40		SC6	144/102	PID= 0.0					SC6 (57'- 62.1') FAT CLAY (CH); ~100% fines, high plasticity; moist to wet, light gray, stiff.	
				PID= 0.0						
	60			PID= 0.0						
-45				PID= 0.0					SC6 (62.1'- 69') SANDY LEAN CLAY (CL); ~60% fines, low plasticity, ~40% sand, fine to coarse; wet, light gray brown, soft to loose, interbedded clays and sands.	
	65			PID= 0.0						
-50				PID= 0.0						

NOTES:

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ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

DRAFT_GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS 07-30-12.GPJ_ATLANTIC.GEI DATA TEMPLATE.GDT 9/18/12

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-1-1102

BORING LOG
PAGE 4 of 5
GPEC-SB-222

DRAFT

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION	WELL DETAILS
	70	SC7	120/120	PID= 0.0					SC7 (70'- 76.7') CLAYEY SAND WITH GRAVEL (SC); ~50% sand, fine, ~40% fines, low plasticity, ~10% gravel; wet, light gray brown, medium stiffness, dense.	
-55				PID= 0.0						
	75			PID= 0.0						
				PID= 0.0					SC7 (76.7'- 77.7') NARROWLY GRADED SAND (SP); orange brown, loose.	
-60				PID= 0.0					SC7 (77.7'- 80') LEAN CLAY (CL); organic soil, moist to wet, dark brown, hard, brittle.	
	80	SC8	120/120	PID= 0.0					SC8 (80'- 81.2') NARROWLY GRADED SAND WITH GRAVEL (SP); ~85% sand, medium, ~15% gravel, fine to coarse; max. size 2", wet, orange brown, loose. SC8 (81.2'- 83.2') LEAN CLAY (CL); ~100% fines, low plasticity; organic rich, moderate organic-like odor, moderate sulfur-like odor, black, organic rich.	
-65				PID= 0.0			OLO			
				PID= 0.0					SC8 (83.2'- 90') LEAN CLAY (CL); ~100% fines, low plasticity; mica rich, gray, stiff, possibly saprolite, weathered schist.	
	85			PID= 0.0						
-70				PID= 0.0						
	90	SC9	120/120	PID= 0.0					SC9 (90'- 100') FAT CLAY (CH); ~100% fines, high plasticity; mica flakes, gray, hard, possibly saprolite, weathered schist.	
-75				PID= 0.0						

NOTES:

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CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

DRAFT_GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS 07-30-12.GPJ ATLANTIC.GEI DATA TEMPLATE.GDT 9/18/12

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-1-1102

BORING LOG
PAGE 5 of 5
GPEC-SB-222

DRAFT

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION	WELL DETAILS
-80	95			PID= 0.0						
				PID= 0.0				Env. Sample ID= GPEC-SB-222 (98-99)		
	100								End of Boring at 100 feet. Grout to ground surface	

NOTES:

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NM = NOT MEASURED

Q_P = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

DRAFT_GPEC_ENVIRONMENTAL BORING LOG GREENPOINT BORINGS 07-30-12.GPJ ATLANTIC.GEI DATA TEMPLATE.GDT 9/18/12

DRAFT

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-2-1202

BORING LOG
PAGE 1 of 3
GPEC-SB331

GROUND SURFACE ELEVATION (FT): 13.9
NORTHING (FT): 686925 EASTING (FT): 649293
DRILLED BY: Cascade Drilling / Olden Gonzalez
LOGGED BY: Akin Adegbayi
DRILLING DETAILS: Mini Sonic BL 100C / Casing: 3.5 in. ID
WATER LEVEL DEPTHS (FT): ▽ 5.50 7/17/2015 ;
GENERAL NOTE:

LOCATION: Area 5 SW OF Holder 1
TOTAL DEPTH (FT): 75.0
DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
DATE START / END: 7/17/2015 - 7/17/2015

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
10	0								(0'- 8') Vacuum/Hand Cleared.
5	5								
		S1	24/12	PID= 4.5 PID= 8.6 PID= 10.4			TLO		(8'- 10') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, ~5% fines, non plastic; max. size 3", slight tar-like odor, wet, brown, concrete/red brick fragments, some cinder, fill.
0	10	S2	60/30	PID= 357 PID= 196 PID= 107 PID= 169 PID= 104 PID= 89.2			TLO	Env. Sample ID= GPEC-SB-331 (14-15)	(10'- 15') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, ~5% fines, non plastic; max. size 3", slight tar-like odor, wet, brown, concrete/red brick fragments, some cinder, fill, soil staining, sheen.
-5	15	S3	60/42	PID= 79 PID= 413 PID= 62 PID= 38 PID= 37.6 PID= 148.8 PID= 298.8 PID= 180			TLO		(15'- 20') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, ~15% fines, non plastic; max. size 2", moderate tar-like odor, wet, brown black, soil staining, sheen.
-10	20	S4	60/32	PID= 23 PID= 37 PID= 59.9 PID= 62.5			TLO		(20'- 23.1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, ~15% fines, non plastic; max. size 2", moderate tar-like odor, wet, brown black, soil staining, sheen.
				PID= 41.0 PID= 105.9			TLO		(23.1'- 25') SILTY SAND WITH GRAVEL (SM); ~55% sand, fine to medium, subangular, ~35% fines, low plasticity, ~10% gravel, coarse; max. size 1", slight tar-like odor, moist-wet, trace meadow
	25								

NOTES:

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CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_p = POCKET PENETROMETER IN TSF
S_v = TORVANE PEAK IN TSF

GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

DRAFT

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-2-1202

BORING LOG
PAGE 2 of 3
GPEC-SB331

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	25	S5	60/30	PID= 42.3 PID= 37.5 PID= 36.7 PID= 0.0 PID= 14.5 PID= 9.2 PID= 57.7			OLO		mat, trace sheen. (25'- 30') SILT (ML); ~95% fines, low plasticity, ~5% sand, fine; moderate organic-like odor, moist, gray, organic soil at the bottom 2".
-15	30	S6	60/44	PID= 2.0 PID= 1.1 PID= 1.4 PID= 5.1 PID= 5.5 PID= 6.7 PID= 15.9			OLO		(30'- 35') SILTY SAND (SM); ~60% sand, fine, ~35% fines, non plastic, ~5% gravel, fine; moderate organic-like odor, very moist, gray.
-20	35	S7	60/60	PID= 0.0					(35'- 36.8') SILT (ML); ~95% fines, low plasticity, ~5% sand; gray. (36.8'- 38.8') SILTY SAND (SM); ~70% sand, fine to medium, ~30% fines, non plastic; wet, gray.
-25	40	S8	60/50	PID= 0.0 PID= 0.0					(38.8'- 40') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, moderately stiff. (40'- 45') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray, moderately stiff.
-30	45	S9	60/60	PID= 0.0					(45'- 50') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray, moderately stiff.
-35	50	S10	60/60	PID= 0.0					(50'- 55') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray, moderately stiff.
-40	55	S11	60/60						(55'- 60') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand,

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Q_p = POCKET PENETROMETER IN TSF
S_V = TORVANE PEAK IN TSF

IN. = INCHES
FT. = FEET
TSF = TONS PER SQUARE FOOT

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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CLIENT: National Grid
PROJECT: Greenpoint Energy Center
CITY/STATE: Brooklyn, New York
GEI PROJECT NUMBER: 125180-2-1202

BORING LOG
PAGE 3 of 3
GPEC-SB331

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
				PID= 0.0					fine; moist, gray, moderately stiff.
-45	60	S12	60/60	PID= 0.0					(60'- 65') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray brown, moderately stiff.
-50	65	S13	60/30	PID= 2.7 PID= 6.2 PID= 0.7 PID= 0.0 PID= 0.0					(65'- 70') NARROWLY GRADED SAND WITH CLAY/SILT (SP-SM); ~60% sand, fine to medium, ~35% fines, low plasticity, ~5% gravel, fine; wet, brown and gray.
-55	70	S14	60/48	PID= .0 PID= 2.1 PID= 0.6 PID= 0.3 PID= 1.2 PID= 5.2				Env. Sample ID= GPEC-SB-331 (74-75)	(70'- 75') NARROWLY GRADED SAND WITH GRAVEL (SP); ~85% sand, fine to medium, ~10% fines, non plastic, ~5% gravel, coarse, subangular-subrounded; max. size 2", wet, brown.
-60	75								End of Boring at 75 feet. Grout to surface.

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GPEC ENVIRONMENTAL BORING LOG GREENPOINT BORINGS 125180-2-1202.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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BORING LOG
PAGE 1 of 3
GPEC-SB333

GROUND SURFACE ELEVATION (FT): 14.2 LOCATION: Area 5
NORTHING (FT): 686892 EASTING (FT): 649129 TOTAL DEPTH (FT): 80.0
DRILLED BY: Cascade Drilling / Olden Gonzalez DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
LOGGED BY: Akin Adegbayi DATE START / END: 7/13/2015 - 7/14/2015
DRILLING DETAILS: Mini Sonic BL 100C / Casing: 3.5 in. ID
WATER LEVEL DEPTHS (FT): ▽ 5.00 7/13/2015 ;
GENERAL NOTE:

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
10	0								(0'- 8') Vacuum/Hand Cleared.
5	5	S1	24/24	PID= 0.5 PID= 0.4 PID= 0.4 PID= 0.5					(8'- 10') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, subangular to angular, ~20% gravel, fine to coarse; max. size 3", wet, brown, some cinder, white ash, glass & red brick fragments, fill.
0	10	S2	60/60	PID= 0.4 PID= 0.4 PID= 0.4 PID= 0.4 PID= 0.3 PID= 0.3 PID= 0.4 PID= 0.0					(10'- 15') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, subangular to angular, ~10% fines, non plastic; max. size 3", brown black, concrete fragments, brick & wood fragments, fill.
-5	15	S3	60/42	PID= 0.8 PID= 0.5 PID= 2.1 PID= 5.4 PID= 57.5 PID= 23.3 PID= 42 PID= 6.2			NLO		(15'- 20') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, subangular to angular, ~10% fines, non plastic; max. size 3", slight naphthalene-like odor, black, red brick/wood fragments, fill, trace sheen.
-10	20	S4	60/60	PID= 60.2 PID= 233.7 PID= 101.7 PID= 30.3 PID= 145.2 PID= 101.9 PID= 163.9 PID= 25.3 PID= 219.2			TLO OLO	Env. Sample ID= GPEC-SB/PZ-333 (21-22)	(20'- 21.3') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, subangular to angular, ~15% gravel, fine to coarse, subangular to angular, ~10% fines, non plastic; max. size 3", moderate tar-like odor, black, soil coating with tar-like material. (21.3'- 25') PEAT (PT); moderate organic-like odor, moist, brown, meadow mat, fibrous, trace organic soil.
	25								

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S_v = TORVANE PEAK IN TSF

GPEC_ENVIRONMENTAL BORING LOG GREENPOINT BORINGS_125180-2-1202.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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BORING LOG
PAGE 2 of 3
GPEC-SB333

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	25	S5	60/52	PID= 118.2 PID= 58.5 PID= 175.8 PID= 234.7 PID= 99.2 PID= 8.7 PID= 76.0			OLO		(25'- 28.3') PEAT (PT); moderate organic-like odor, moist, brown and gray, meadow mat, fibrous, trace organic soil.
-15				PID= 67.0			OLO		(28.3'- 30') NARROWLY GRADED SAND WITH SILT (SP-SM); ~85% sand, fine to medium, subangular, ~15% fines, non plastic; moderate organic-like odor, wet, gray, trace organic soil and root fiber.
	30	S6	60/47	PID= 1.6 PID= 3.7 PID= 2.0 PID= 9.7 PID= 5.9 PID= 4.7 PID= 7.6					(30'- 35') NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, subangular, ~5% fines, non plastic; wet, gray.
-20									
	35	S7	60/50	PID= 2.7 PID= 1.1 PID= 1.0 PID= 4.3 PID= 1.8 PID= 1.1 PID= 1.4					(35'- 40') NARROWLY GRADED SAND (SP); ~95% sand, fine to medium, subangular, ~5% fines, non plastic; wet, gray brown, more silt at the bottom.
-25									
	40	S8	60/56	PID= 0.0 PID= 0.0					(40'- 45') LEAN CLAY (CL); ~90% sand, fine, subangular, ~5% gravel, coarse, ~5% fines, low plasticity; max. size 0.5", dry, gray, trace sand and gravel, moderately stiff.
-30									
	45	S9	60/60	PID= 0.0					(45'- 50') LEAN CLAY (CL); ~90% sand, fine, subangular, ~5% gravel, coarse, ~5% fines, low plasticity; max. size 0.5", moist, gray, trace sand and gravel, moderately stiff.
-35									
	50	S10	60/60	PID= 0.0					(50'- 55') LEAN CLAY (CL); ~90% sand, fine, subangular, ~5% gravel, coarse, ~5% fines, low plasticity; max. size 0.5", moist, gray, trace sand and gravel, moderately stiff.
-40									
	55	S11	60/60						(55'- 60') LEAN CLAY (CL); ~90% sand, fine, subangular, ~5%

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GPEC_ENVIRONMENTAL BORING LOG GREENPOINT BORINGS_125180-2-1202.GPJ ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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BORING LOG
PAGE 3 of 3
GPEC-SB333

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
				PID= 0.0					gravel, coarse, ~5% fines, low plasticity; max. size 0.5", moist, gray, trace sand and gravel, moderately stiff.
-45	60	S12	60/48						(60'- 61.3') LEAN CLAY (CL); ~90% sand, fine, subangular, ~5% gravel, coarse, ~5% fines, low plasticity; max. size 0.5", moist, gray, trace sand and gravel, moderately stiff.
				PID= 0.0					(61.3'- 65') NARROWLY GRADED SAND WITH GRAVEL AND SILT (SP-SC); ~75% sand, fine to medium, subangular, ~15% gravel, coarse, subangular, subrounded, ~10% fines, non plastic; max. size 2", wet, brown and gray.
-50	65	S13	60/32						(65'- 70') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to medium, ~20% fines, non plastic, ~15% gravel, coarse, subangular; max. size 3", wet, gray brown.
				PID= 2.2					
				PID= 0.9					
				PID= 0.3					
-55				PID= 10.1					
	70	S14	60/42						(70'- 75') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to medium, ~20% fines, non plastic, ~15% gravel, coarse, subangular; max. size 3", wet, gray brown.
				PID= 0.9					
				PID= 0.3					
				PID= 0.1					
				PID= 0.0					
-60				PID= 0.0					
				PID= 0.0					
	75	S15	60/18						(75'- 80') SILTY SAND (SM); ~65% sand, fine to medium, ~20% fines, non plastic, ~15% gravel, coarse, subangular; max. size 3", wet, gray brown.
				PID= 0.1					
				PID= 0.1					
-65				PID= 0.6				Env. Sample ID= GPEC-SB/PZ-333 (79-80)	
	80								End of Boring at 80 feet. Monitoring well installed 65-75'. Piezometer (2-12') and monitoring well (30-40') installed at adjacent locations. 8" isolation casing installed during boring advancement.

GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT_9/3/15

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GEI PROJECT NUMBER: 125180-2-1202

BORING LOG
PAGE 1 of 3
GPEC-SB334

GROUND SURFACE ELEVATION (FT): 14.8
NORTHING (FT): 686850 EASTING (FT): 649017
DRILLED BY: Cascade Drilling / Olden Gonzalez
LOGGED BY: Akin Adegbayi
DRILLING DETAILS: Mini Sonic BL 100C / Casing: 3.5 in. ID
WATER LEVEL DEPTHS (FT): ▽ 5.50 7/16/2015 ;
GENERAL NOTE:

LOCATION: Area 5 Ballfield
TOTAL DEPTH (FT): 75.0
DATUM VERT. / HORZ.: NAVD 88 / NAD83 NY East Zone
DATE START / END: 7/16/2015 - 7/16/2015

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
10	0								(0'- 8') Vacuum/Hand Cleared.
	5								
5	10	S1	24/24	PID= 0.5 PID= 0.7 PID= 1.6 PID= 4.9 PID= 2.1					(8'- 10') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand, fine to coarse, angular to subangular, ~20% gravel, fine to coarse; max. size 3", wet, brown black, some cinder, white ash, concrete & red brick fragments, fill.
		S2	60/18	PID= 1.2 PID= 1.9 PID= 2.1					(10'- 15') WIDELY GRADED SAND WITH GRAVEL (SW); non plastic, ~80% sand, fine to coarse, angular to subangular, ~20% gravel, fine to coarse; max. size 3", wet, brown black, some cinder, white ash, concrete & red brick fragments, fill.
0	15	S3	60/12	PID= 0.9 PID= 1.5			TLO		(15'- 20') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, angular to subangular, ~15% gravel, fine to coarse, angular to subangular, ~10% fines, non plastic; max. size 2.5", slight tar-like odor, brown black, wood chip fragments, trace red brick fragments, fill.
-5	20	S4	60/32	PID= 71.1 PID= 56.7 PID= 49.2 PID= 78 PID= 99.9 PID= 107.2 PID= 136.1 PID= 234 PID= 122.5			TLO	Env. Sample ID= GPEC-SB-334	(20'- 22.5') NARROWLY GRADED SAND (SP); ~100% sand, fine to medium; wet, black gray. (22.5'- 25') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, angular to subangular, ~15% gravel, fine to coarse, ~10% fines, non plastic; max. size 1.5", moderate tar-like odor, rope fragments, cinder, red
-10	25								

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GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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BORING LOG
PAGE 2 of 3
GPEC-SB334

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN/REC IN./IN.	FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
	25	S5	60/18	PID= 22.4 PID= 30.6 PID= 21.7 PID= 12.1			TLO OLO	(24-25)	brick/glass fragments, fill, moderate soil staining/coating. (25'- 25.6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% sand, fine to coarse, angular to subangular, ~15% gravel, fine to coarse, ~10% fines, non plastic; max. size 1.5", moderate tar-like odor, wet, rope and metal scrap fragments, cinder, red brick/glass fragments, fill, moderate soil staining/coating. (25.6'- 30') PEAT (PT); moderate organic-like odor, moist, brown, meadow mat, fibrous.
-15	30	S6	60/24	PID= 2.3 PID= 1.1 PID= 0.9 PID= 1.2					(30'- 34.2') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~85% sand, fine to medium, subangular, ~10% fines, non plastic, ~5% gravel, fine to coarse, angular to subangular; max. size 0.5", wet, gray. (34.2'- 35') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; wet to moist, gray, moderately stiff.
-20	35	S7	60/58	PID= 0.1 PID= 0.1 PID= 0.0 PID= 0.0 PID= 0.1 PID= 0.1 PID= 0.0 PID= 0.1 PID= 0.0 PID= 0.4					(35'- 40') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray brown, moderately stiff.
-25	40	S8	60/60	PID= 0.0 PID= 0.0					(40'- 45') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray brown, moderately stiff.
-30	45	S9	60/54	PID= 0.0					(45'- 50') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray brown, moderately stiff.
-35	50	S10	60/60	PID= 0.0					(50'- 52.5') LEAN CLAY (CL); ~95% fines, low plasticity, ~5% sand, fine; moist, gray brown, moderately stiff. (52.5'- 55') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~75% sand, fine to medium, angular to subangular, ~15% fines, non plastic, ~10% gravel, coarse, angular to subangular; max. size 2.5", wet, gray brown.
-40	55	S11	60/28						(55'- 60') NARROWLY GRADED SAND WITH SILT AND

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GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

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BORING LOG
PAGE 3 of 3
GPEC-SB334

ELEV. FT.	DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN/REC IN./IN.	SAMPLE INFO: FIELD TEST DATA	STRATA	VISUAL IMPACTS	ODOR	REMARKS	SOIL / BEDROCK DESCRIPTION
				PID= 0.1 PID= 0.3 PID= 0.0 PID= 0.2 PID= 0.0					GRAVEL (SP-SM); ~75% sand, fine to medium, angular to subangular, ~15% fines, non plastic, ~10% gravel, coarse, angular to subangular; max. size 2.5", wet, gray brown.
-45	60	S12	60/1	PID= 0.0					(60'- 65') wet, no recovery, traces of sand from the drill bit (flushed out sample).
-50	65	S13	60/28	PID= 0.1 PID= 0.0					(65'- 70') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~75% sand, fine to medium, angular to subangular, ~15% fines, non plastic, ~10% gravel, coarse, angular to subangular; max. size 2.5", wet, gray brown.
-55	70	S14	60/45	PID= 0.0					(70'- 75') SILTY SAND WITH GRAVEL (SM); ~65% sand, fine to medium, ~20% fines, non plastic, ~15% gravel, coarse, subangular; max. size 2", gray brown.
-60	75			PID= 0.0				Env. Sample ID= GPEC-SB-334 (74-75)	End of Boring at 75 feet. Grout to surface.

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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR
SeLO= SEWAGE LIKE ODOR

NA = NOT APPLICABLE
NM = NOT MEASURED
Q_p = POCKET PENETROMETER IN TSF
S_v = TORVANE PEAK IN TSF

GPEC_ENVIRONMENTAL BORING LOG_GREENPOINT BORINGS_125180-2-1202.GPJ_ATLANTIC GEI DATA TEMPLATE.GDT 9/3/15

Appendix E

Test Pit Excavation Logs

RI Test Pit Logs

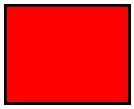
250 Apollo Drive Drive
Chelmsford, Massachusetts 01824

LEGEND

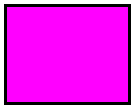
Boring Logs
Monitoring Well Logs
Test Pit Logs

Project Name: Equity Former MGP
Project Number: 60137362
Location: Brooklyn, NY
Client: National Grid

Visual Impacts



NAPL SATURATED



COATED MATERIAL, LENSES



BLEBS, GLOBS, SHEEN



STAINING, ODOR



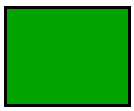
HARDENED NAPL



PETROLEUM IMPACTS SATURATION & SHEENS



PETROLEUM IMPACTS STAINING & ODORS



NO OBSERVED IMPACTS



PURIFIER WASTE AND ODOR

Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-1

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-1**	**SURFACE ELEVATION: 14.45 (ft NAVD88)**
CLIENT: National Grid	**SITE LOCATION OR AREA: East off former settling tank and separator**	**START DATE: 10/07/09**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Excavator**	**FINISH DATE: 10/08/09**
GEOLOGIST: M. Steponova	**OPERATOR: Paragon**	**START TIME:**
DEPTH WATER ENCOUNTERED: 9.0 ft bgs	**TOTAL DEPTH: 13.9 ft bgs**	**FINISH TIME:**

DEPTH (FEET)	OBSERVED IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		5		FILL	0'-1.0': SILT, SAND, and GRAVEL (Fill): silt and gravel, 40% sand, wet, brown, wood fibers, pottery, brick, glass, and metal fragments, strong hydrogen sulfide-like odor.	
		15			1.0'-2.0': SAA: piece of cloth at 1' bgs, and two large rocks (10-inch diameter), and wood fibers are mostly decomposed.	
2		10			2.0'-3.0': SILTY GRAVEL and SAND (Fill): gravel, 45% silt, 35% sand sized material, granular, moist, black, a lot of wood fibers, pieces of brick, glass, film cassettes, strong hydrogen sulfide-like odor	
3		5			3.0'-4.0': SAA: compact, 50% shredded wood fragments, some brick, glass, poly, metal, and film tape, hydrogen sulfide-like odors.	
4		22			4.0'-5.0': SAA	
5		56			5.0'-6.0': SAA: larger pieces of wood (<1' long)	
6		10			6.0'-7.0': SAA: 20% brick fragments on the western wall, fewer bricks on the east wall, moderate hydrogen sulfide-like odor.	
7		7.5			7.0'-8.0': SAND and GRAVEL (Fill): angular, coarse to fine gravel size slag and slag pieces, moist, black, some bricks, slight naphthalene-like odor.	
8		3.8			7.8': SAA: strong naphthalene-like odor. 8.0'-9.0': SAA: moist, dark brown, wet at 9 ft bgs.	
9		47.0			9.0'-10': SAA: wet, brown, slag pieces, pieces of brick and wood fibers, light naphthalene-like odor. 9.0': Black angular coarse SAND and slag fragments along south wall.	Collected TP-1 (9')
10		2.2			10'-11': SAA: more silt.	
11		4.2			11'-12': SAA:	
12		3.5			12'-13': SILTY SAND (Fill): sand, 30% silt, 5% fine mica, mild naphthalene-like odor.	Collected TP-1 (12')
13		4.5 5.3			13'-14': SAA: laminations of gray/brown and dark gray/black, compact silt pockets, few slag pieces. 13.9': Small pockets of green/gray CLAY, trace decomposed wood fragments. Trace naphthalene-like odors.	
14					End of Test Pit at 13.9 ft bgs	

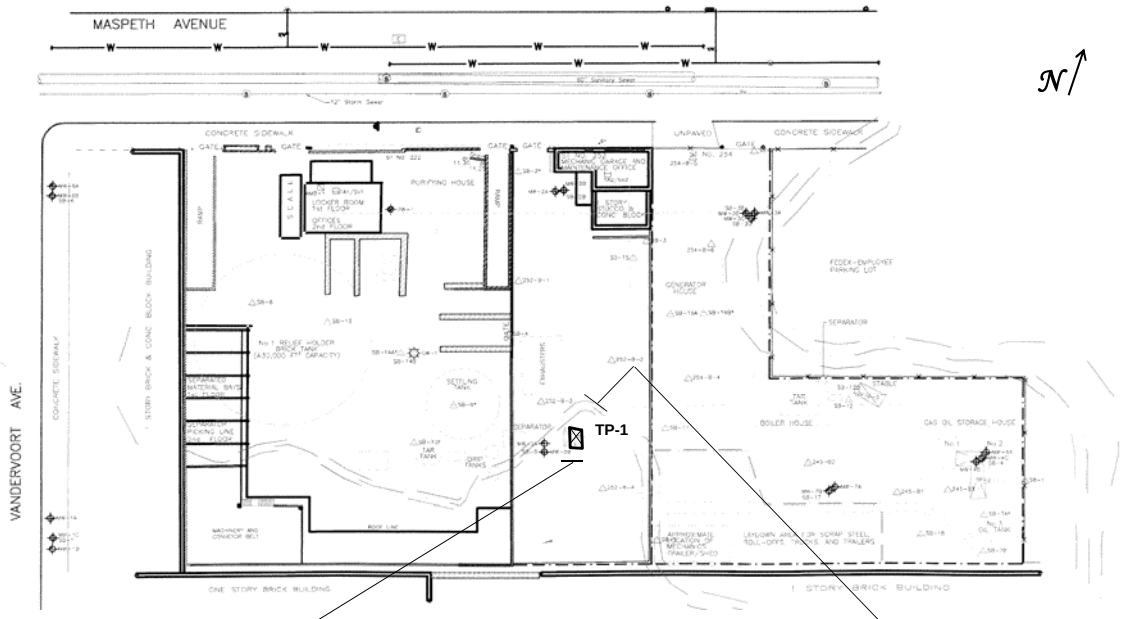
Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

AECOM	Test Pit Log	TP-1

PROJECT NO: 60137362	TEST PIT DESIGNATION: TP-1	SURFACE ELEVATION: 14.45 (ft NAVD88)
CLIENT: National Grid	SITE LOCATION OR AREA: East off former settling tank and separator	START DATE: 10/07/09
SITE NAME: Equity Former MGP Site	EQUIPMENT USED: Excavator	FINISH DATE: 10/08/09
GEOLOGIST: M. Steponova	OPERATOR: Paragon	START TIME:
DEPTH WATER ENCOUNTERED: 9.0 feet bgs	TOTAL DEPTH: 13.9 ft bgs	FINISH TIME:

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-2

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-2**	**SURFACE ELEVATION: 12.51 (ft NAVD88)**
CLIENT: National Grid	**SITE LOCATION OR AREA: Former gas oil storage house/No.3 oil tank**	**START DATE: 10/06/09**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Excavator**	**FINISH DATE: 10/06/09**
GEOLOGIST: M. Steponova	**OPERATOR: Paragon**	**START TIME:**
DEPTH WATER ENCOUNTERED: 8.5 ft bgs	**TOTAL DEPTH: 8.5 ft bgs**	**FINISH TIME:**

DEPTH (FEET)	OBSERVED IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		4.4		FILL	0-1.0': SILTY SAND (Fill): sand, 30% silt, moist, brown, some metal, brick, poly, wood fragments, railroad tie, 1'x1' of hardened NAPL in north corner, strong naphthalene-like odors, gravel, cobbles, tire, and black fibrous carpet remains.	
2		8			1.0'-2.0': SAA: pieces of brick, wood, metal, poly, and geotextile, pockets of viscous NAPL in north corner.	
3		190			2.0'-3.0': SAA: 3'x4' area of black viscous NAPL in north corner, strong naphthalene-like odor.	
4		14			3.0'-4.0': SAA: approximately 2'x3' area of black viscous NAPL in north corner.	
5		12			4.0'-5.0': SAA; 2'x2' area of very viscous to solidified NAPL, strong naphthalene-like odor.	
6		4.5			5.0'-6.0': SAA: area of NAPL in the north east corner continues to thin and then stops at 6'.	
7		17			6.0'-8.0': SAA: sand and silt, 20% gravel, damp, brown, cobbles, some brick and concrete fragments, loose, moist.	Concrete slab encountered at 8.2 ft bgs along the bottom of eastern half of the west to east leg of the test pit.
8					8.0'-8.5': FILL as above. Water table at 8.5'. Some oil on the water surface, yellow, moderate fuel oil-like odor.	Collected TP-2 (8.5')

End of Test Pit at 8.5 ft bgs

Definitions:

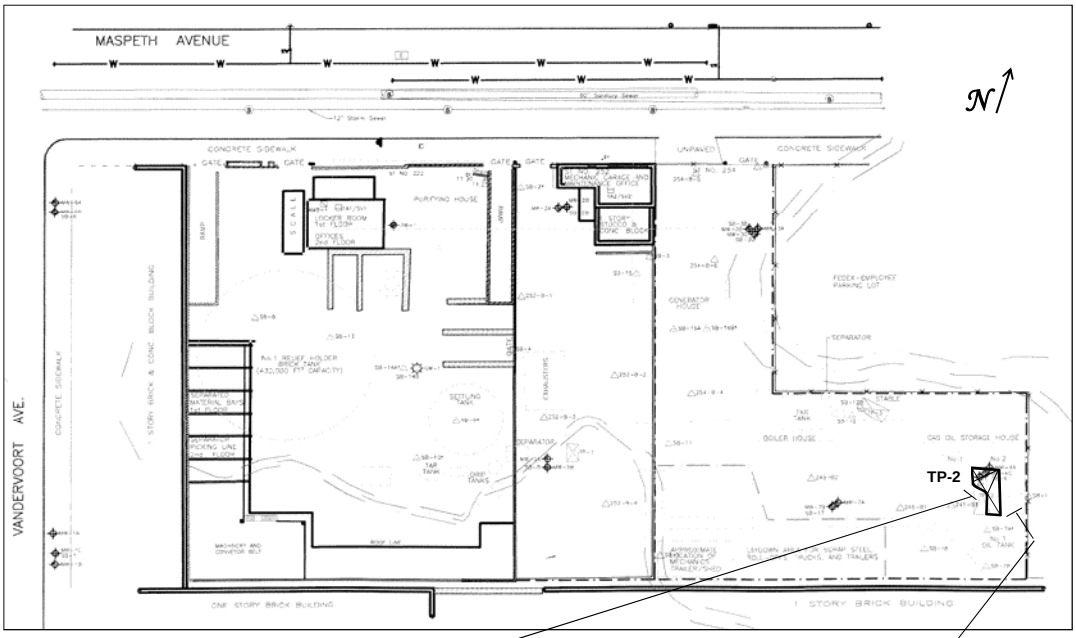
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-2

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-2**	**SURFACE ELEVATION: 12.51 (ft NAVD88)**
CLIENT: National Grid	**SITE LOCATION OR AREA: Former gas oil storage house/No.3 oil tank**	**START DATE: 10/06/09**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Excavator**	**FINISH DATE: 10/06/09**
GEOLOGIST: M. Steponova	**OPERATOR: Paragon**	**START TIME:**
DEPTH WATER ENCOUNTERED: 8.5 feet bgs	**TOTAL DEPTH: 8.5 ft bgs**	**FINISH TIME:**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-2B

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-2B**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Eastern side of site, near center**	**START DATE: 9/9/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/9/2011**
GEOLOGIST: Christie Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 07:45**
DEPTH WATER ENCOUNTERED: ~7.0 ft bgs	**TOTAL DEPTH: 7.5 ft bgs**	**FINISH TIME: 09:00**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-7' SAND with bricks (fill): sand with bricks, brick layer top 2"-2' (all sides of test pit), discontinuous layers of cinder and ash on eastern and northern walls; pebbles, cobbles, boulders of rocks, bricks and concrete, glass, wood.	
		0.1				
2						
		0.1				
3					2'10" : Layer of coal with few hardened NAPL balls on southern wall (~3"x20" section).	
		0.1				
4					4': Spots of NAPL seeping out (when exposed to air).	
		0.2				
5						
		0.1				
6						
		0.4				
7						
		12.1			at 7': Groundwater observed. Strong to very strong diesel-like odor at water table; emulsion of LNAPL (oil-like material) on groundwater (stained gloves), soil did not stain gloves; oil-like material primarily on water table.	Collected two samples TP-2B (7-7.5)

Test pit terminated at 7.5 ft bgs.

Definitions:

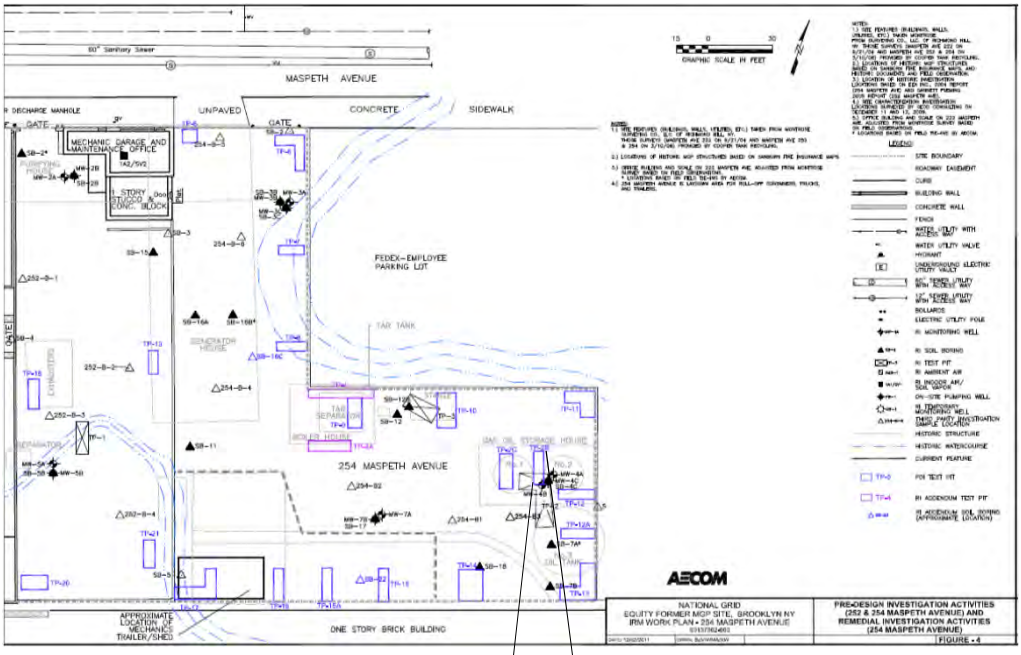
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-2B

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-2B**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Eastern side of site, near center**	**START DATE: 9/9/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/9/2011**
GEOLOGIST: Christie Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 07:45**
DEPTH WATER ENCOUNTERED: ~7.0 ft bgs	**TOTAL DEPTH: 7.5 ft bgs**	**FINISH TIME: 09:00**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-2C

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-2C**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: 18 ft West of tp-2B on eastern side of site.**	**START DATE: 9/9/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/9/2011**
GEOLOGIST: Christie Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 09:00**
DEPTH WATER ENCOUNTERED: ~7 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 09:40**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-3' SAND (fill): fine sand with pebbles/cobbles of bricks/rocks. 0-0.3' Northern wall, bricks/debris, concrete, cinders/ash, less debris on other walls. at 0.4': bricks on northern wall.	
				CONC.	1': on southern wall, concrete structure, to bottom of wall.	
2		0.0		FILL	1'-7': CINDERS and ASH (fill): coal cinders and ash on eastern wall.	
		0.1				
3						
		0.1			3-7':below brick layer, piece of historic pipe in eastern wall (not fully intact.)	
4						
		0.0				
5						
		0.0				
6						
		ND				No samples collected
7					7': Groundwater observed. No staining or odors in soil; slight to very slight sheen on groundwater.	

Test pit terminated at 7 ft bgs.

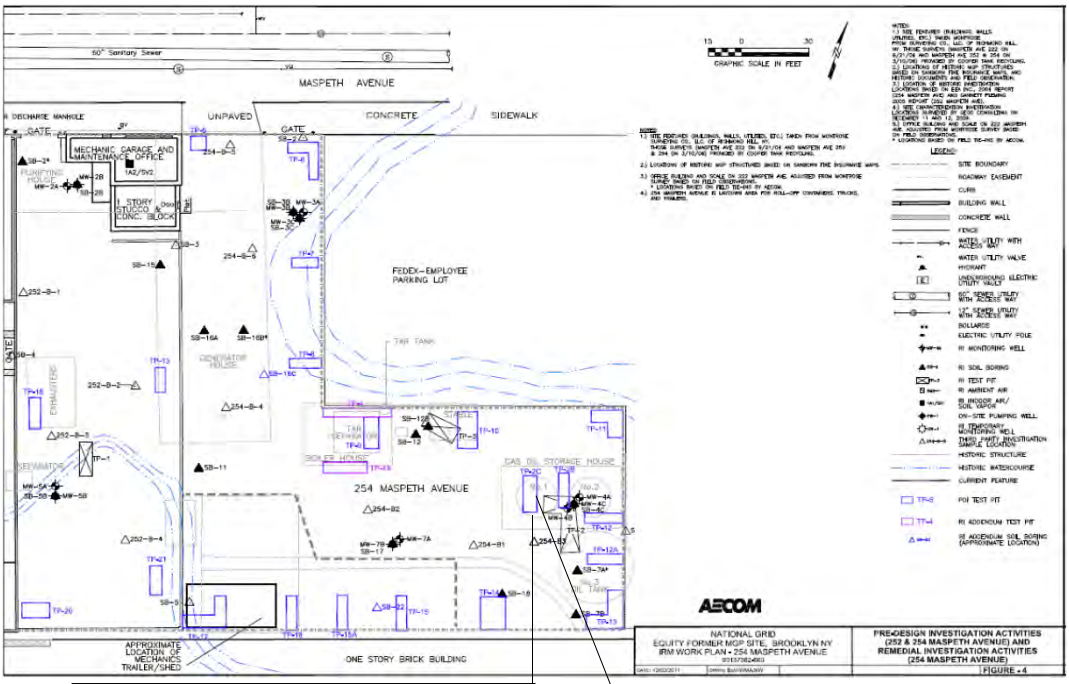
Definitions:

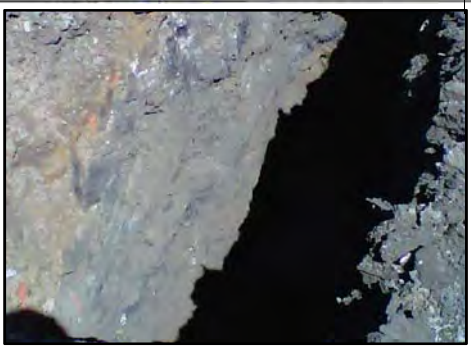
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

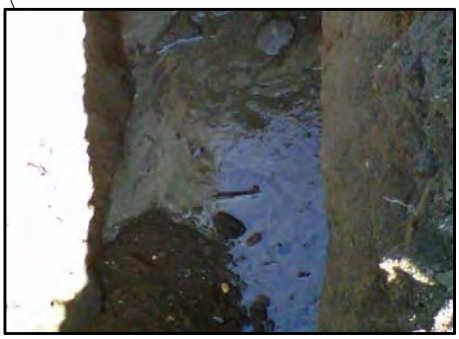
AECOM	Test Pit Log	TP- 2C

PROJECT NO: 60137362	TEST PIT DESIGNATION: TP-2C	SURFACE ELEVATION: TBD
CLIENT: National Grid	SITE LOCATION OR AREA: 18 ft West of tp-2B on eastern side of site.	START DATE: 9/9/2011
SITE NAME: Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/9/2011
GEOLOGIST: Christie Battenhouse	OPERATOR: Dan Brunquell	START TIME: 09:00
DEPTH WATER ENCOUNTERED: ~7 ft bgs	TOTAL DEPTH: 7.0 ft bgs	FINISH TIME: 09:40

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-3

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-3**	**SURFACE ELEVATION: 13.12 (ft NAVD88)**
CLIENT: National Grid	**SITE LOCATION OR AREA: East of former Boiler House**	**START DATE: 10/07/09**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Excavator**	**FINISH DATE: 10/07/09**
GEOLOGIST: M. Steponova	**OPERATOR: Paragon**	**START TIME:**
DEPTH WATER ENCOUNTERED: 7.5 feet bgs	**TOTAL DEPTH: 7.5 ft bgs**	**FINISH TIME:**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		5.6		FILL	0-1.0': SAND, SILT, and Gravel (Fill): sand, 30% silt and gravel, moist, brown, loose, some brick, glass, and poly fragments.	
2		7.8			1.0'-2.0': SAA: small piece of slag (1"), 4' long piece of copper wire.	
3		4.7			2.0'-3.0': SAA: 3"x3" piece of slag, as well as carpet and wood.	
4		4.9			3.0'-4.0': SAA: north end of the excavation has a layer of slag at 3.3' bgs, most fill is rags, carpet, wire, plastic, and wood pieces.	
5		5.6			4.0'-5.0': SAA	
6		5.0			5.0'-6.0': SAA: fine to medium sand, 30% gravel, some slag, ash layer at south wall at 5.3-5.8'.	
7		0.0			6.0'-7.0': SAA	
		0.0			7.0'-7.5': SILTY SAND (Fill): sand, 30% silt, wet, brown to black, compact, trace odor, some foam on water surface at 7.5' bgs.	Collected TP-3 (7') Collected TP-3 (7.5')

End of Test Pit at 7.5 ft bgs

Definitions:

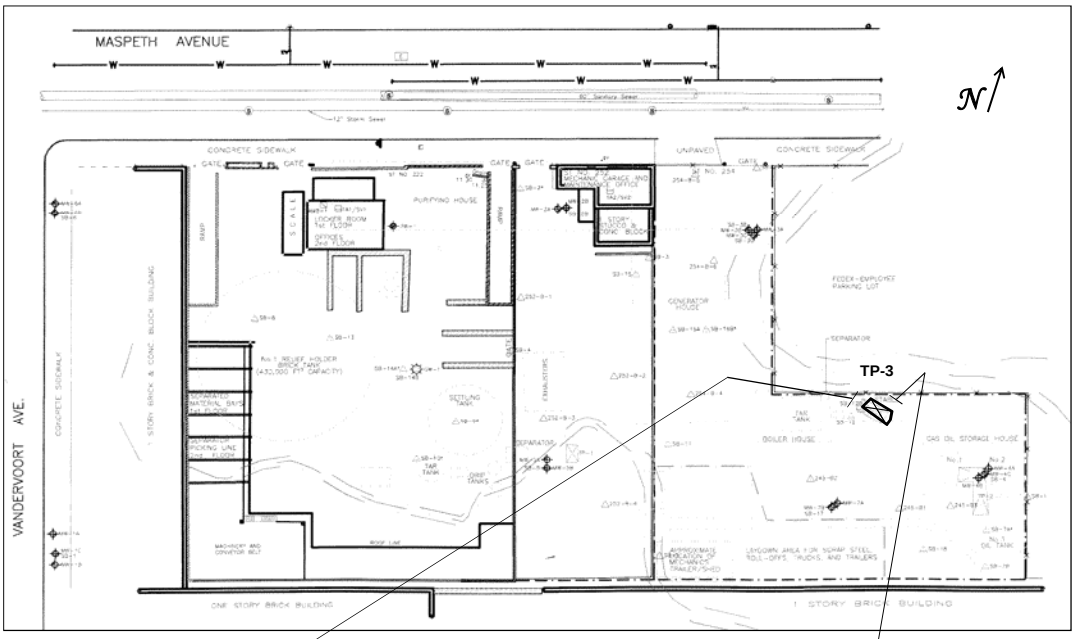
1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-3

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-3**	**SURFACE ELEVATION: 13.12 (ft NAVD88)**
CLIENT: National Grid	**SITE LOCATION OR AREA: East of former Boiler House**	**START DATE: 10/07/09**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Excavator**	**FINISH DATE: 10/07/09**
GEOLOGIST: M. Steponova	**OPERATOR: Paragon**	**START TIME:**
DEPTH WATER ENCOUNTERED: 7.5 feet bgs	**TOTAL DEPTH: 7.5 ft bgs**	**FINISH TIME:**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-4

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-4**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: 27' east of fence corner (at SW corner of FedEx parking lot)**	**START DATE: 9/9/11**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/9/11**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1135**
DEPTH WATER ENCOUNTERED: 7 ft bgs	**TOTAL DEPTH: 7 ft bgs**	**FINISH TIME: 1500**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0'-1.0' SAND (fill): with little silt, rocks, bricks, concrete, and glass; coal cinders and ash	
		0.0			1': ~ 6" to 1' concrete layer from ~ 5' to 25' east of fence corner (possible bldg foundation or northern portion of wall of tar separator)	1': structure evident: concrete with wood supports at ~25 to 27' east of fence corner (possible remnants of tar tank)
2		1.0			2-4': coal cinders and ash layer; few hardened NAPL pieces	4': structure ends.
3		2.0				
4		2.0				
5		4.0				
6		161.5			~ 6.9-7': LNAPL seeping out on groundwater at bottom of test pit; strong to very strong HCLO (diesel-like) odor; OLM evident in soil (stained gloves when collecting sample).	Collected sample: TP-4 (6.5-7)
7					7.0': groundwater observed.	
					Test pit terminated at 7.25 ft bgs.	

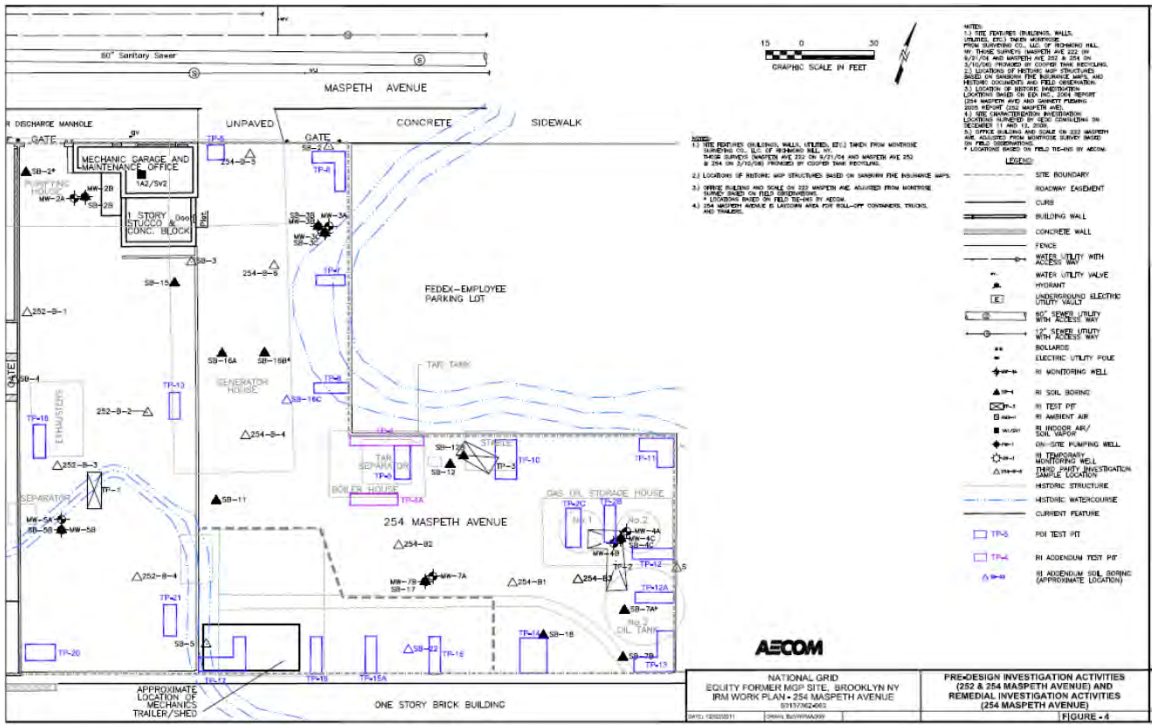
Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

AECOM	Test Pit Log	TP- 4

PROJECT NO: 60137362	**TEST PIT DESIGNATION:**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA:**	**START DATE:**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE:**
GEOLOGIST:	**OPERATOR: Dan Brunquell**	**START TIME:**
DEPTH WATER ENCOUNTERED:	**TOTAL DEPTH:**	**FINISH TIME:**

(Plan view - Equity Former MGP Site)



Test Pit Log

TP-4A

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-4A**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: 254 Maspeth Ave. 20' south of fence, 5' east of corner**	**START DATE: 9/9/11**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/9/11**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1345**
DEPTH WATER ENCOUNTERED: 4.5 ft bgs	**TOTAL DEPTH: 4.5 ft bgs**	**FINISH TIME: 1640**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND			No geological information available.	
2		ND				1': concrete footing/structure at corner of test pit.
3		ND				
4		ND				
		ND				
5						
6						
7						

Definitions:

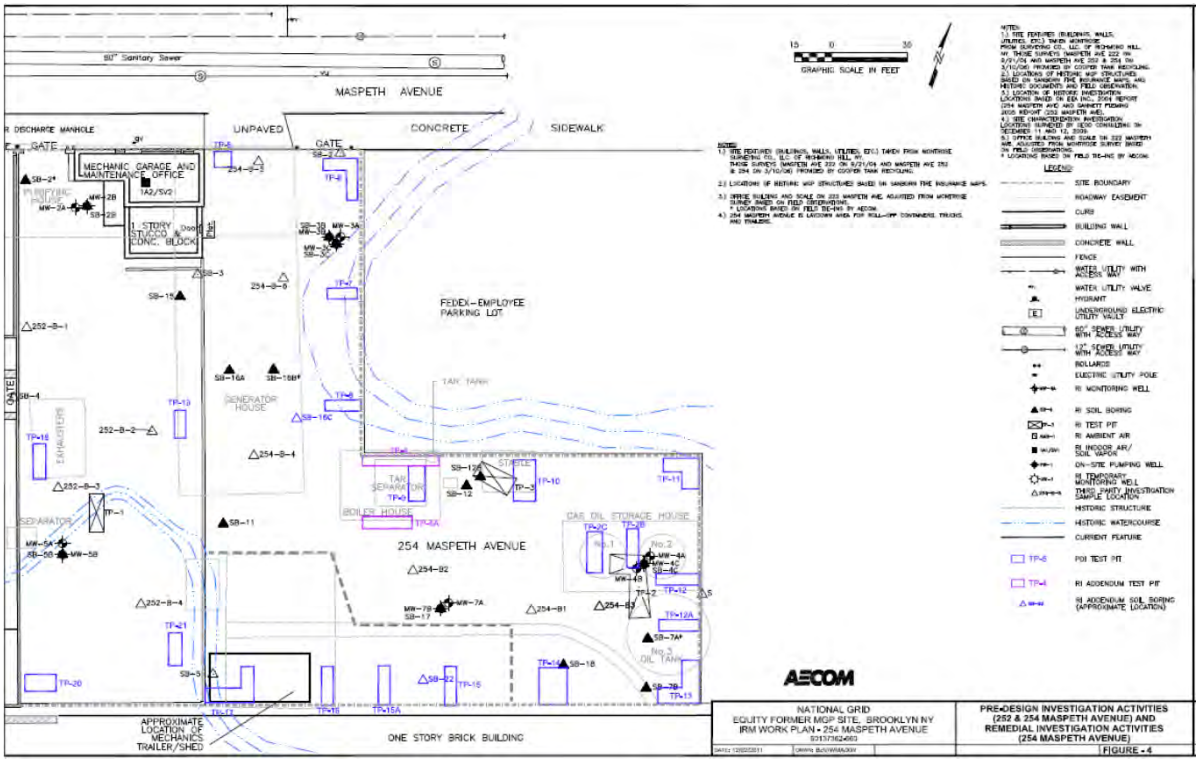
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP- 4A

PROJECT NO: 60137362	**TEST PIT DESIGNATION:**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA:**	**START DATE:**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE:**
GEOLOGIST:	**OPERATOR: Dan Brunquell**	**START TIME:**
DEPTH WATER ENCOUNTERED:	**TOTAL DEPTH:**	**FINISH TIME:**

(Plan view - Equity Former MGP Site)



PDI for NAPL Recovery IRM
Test Pit Logs

March 2016

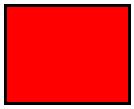
250 Apollo Drive Drive
Chelmsford, Massachusetts 01824

LEGEND

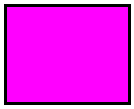
Boring Logs
Monitoring Well Logs
Test Pit Logs

Project Name: Equity Former MGP
Project Number: 60137362
Location: Brooklyn, NY
Client: National Grid

Visual Impacts



NAPL SATURATED



COATED MATERIAL, LENSES



BLEBS, GLOBS, SHEEN



STAINING, ODOR



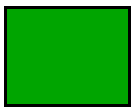
HARDENED NAPL



PETROLEUM IMPACTS SATURATION & SHEENS



PETROLEUM IMPACTS STAINING & ODORS



NO OBSERVED IMPACTS



PURIFIER WASTE AND ODOR

Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) bgs - below ground surface
4.) SAA - Same As Above
5.) ppm - parts per million
6.) NAVD 88 - North American Vertical Datum of 1988
7.) PID - Photo Ionization Meter
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-5

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-5**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Western corner of 254 Maspeth Ave.**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 13:30**
DEPTH WATER ENCOUNTERED: 5.0 ft bgs	**TOTAL DEPTH: 5.1 ft bgs**	**FINISH TIME: 14:20**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-5.4' FILL: brick, concrete, gravel, glass, slag, wood pieces (pebble to cobble sized), dry, no odor.	
2		0.0				1.0-5.0' (on Northern wall): brick foundation
3		0.0				
4		0.0				
5		0.0			Larger, boulder-sized pieces of concrete/rock. 5.0': Groundwater observed, moist to wet at bottom.	
6						
7						

Test pit terminated at 5.4 ft bgs.

Definitions:

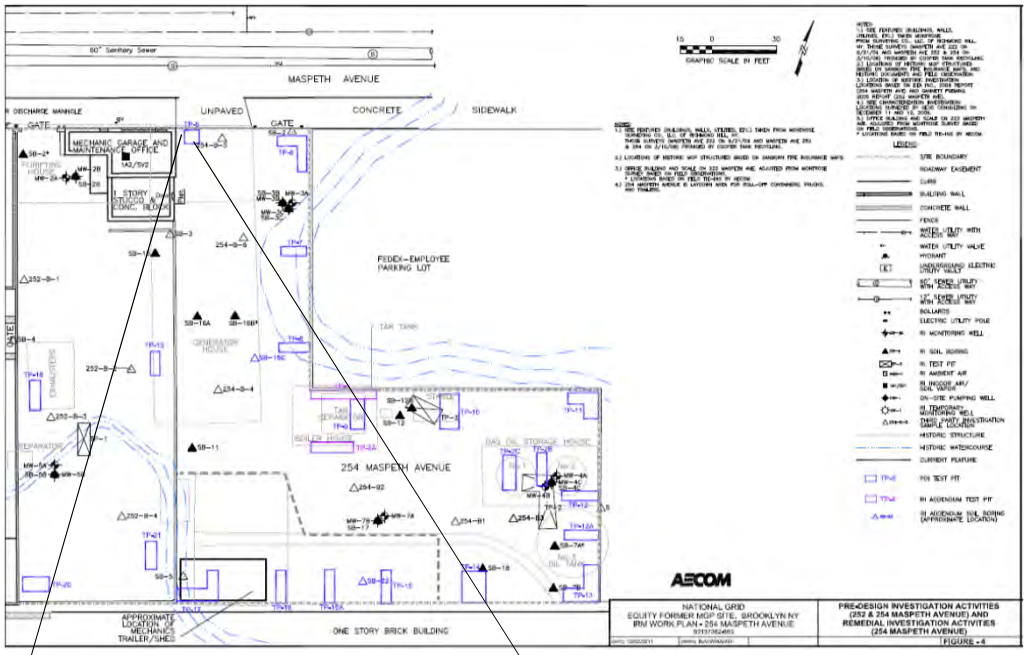
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-5

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-5**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Western corner of 254 Maspeth Ave.**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 13:30**
DEPTH WATER ENCOUNTERED: 5.0 ft bgs	**TOTAL DEPTH: 5.1 ft bgs**	**FINISH TIME: 14:20**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-6

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-6**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Entrance gate to 254 Maspeth Ave**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 15:00**
DEPTH WATER ENCOUNTERED: 5.0 ft bgs	**TOTAL DEPTH: 5.33 ft bgs**	**FINISH TIME: 16:30**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-5.5' FILL: cobbles, bricks, glass, concrete, wood, cinders, (coal) ash, roofing material (possibly ACM) or old flooring, pebble to boulder sized pieces of concrete/rock, no odor or staining, dry, moist to wet at bottom.	
2		0.0				2.0-5.0': bricks on northern side no apparent structure.
3		0.0				
4		0.0				Collected sample TP-6 (3.5-4.5') from area of coal ash/cinders (on eastern side of test pit)
5		0.0			Larger (boulder-sized pieces of rock/concrete at 4.5 ft bgs).	
6		ND			Assumed roofing material/old flooring observed at 5.0 ft bgs (along northern side) -possible ACM, not observed on eastern Side. Apparent/suspected brick layer at bottom, bucket not able to get through. 5.1': Groundwater observed (eastern side) and 5.33' (northern side).	Brick layer suspected at 5.0 ft bgs
7						
					Test pit terminated at 5.5 ft bgs.	

Definitions:

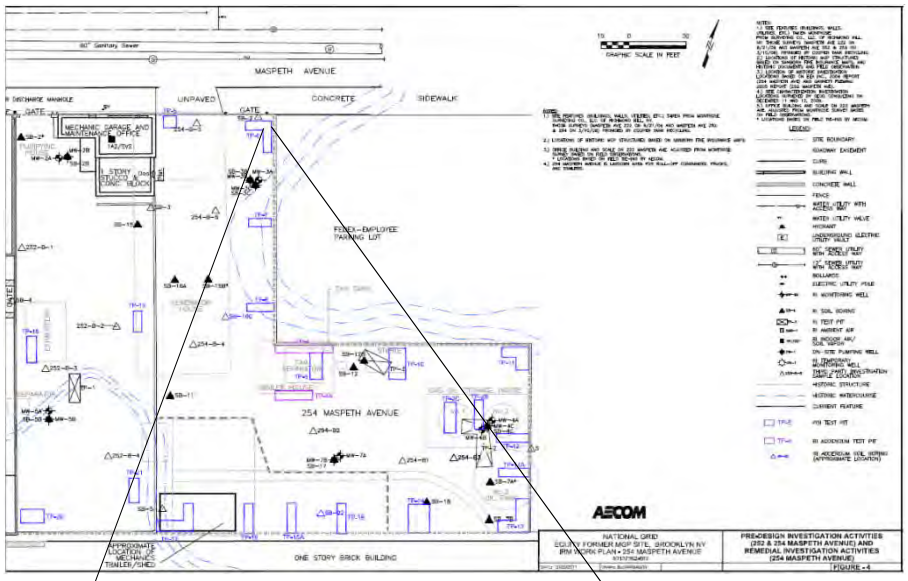
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-6

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-5**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Western corner of 254 Maspeth Ave.**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 15:00**
DEPTH WATER ENCOUNTERED: 5.0 ft bgs	**TOTAL DEPTH: 5.1 ft bgs**	**FINISH TIME: 16:30**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-7

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-7**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Eastern fence next to weigh scales**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: Christie Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 07:30**
DEPTH WATER ENCOUNTERED: 6.83 ft bgs	**TOTAL DEPTH: 6.83 ft bgs**	**FINISH TIME: 08:30**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND		FILL	0-4' SAND (fill); sand and pieces of concrete, boulder sized rocks, brick pieces (pebble to cobble sized), <20%slag/ash, black/brown color, dry, no odors or staining.	
2		ND				
3		ND			3': fewer of the larger. boulder-sized pieces, moist.	
4		ND			4-6.83' SAND (fill): sand, moist, gravels, pieces of bricks, slag, ash, few boulders, reddish-black-brown color.	
5		ND				
6		ND				
7					6.83': wet, groundwater observed seeping into test pit.	
					Test pit terminated at 6.83 ft bgs.	

Definitions:

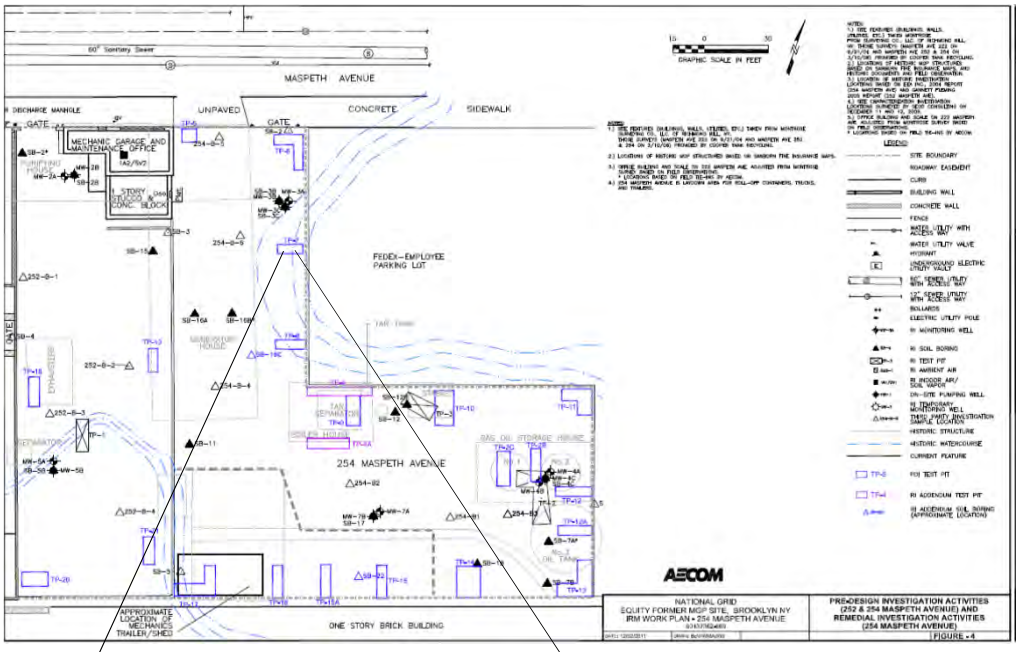
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not documented

Test Pit Log

TP-7

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-7**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Eastern fence next to weigh scales**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 07:30**
DEPTH WATER ENCOUNTERED: 6.83 ft bgs	**TOTAL DEPTH: 6.83 ft bgs**	**FINISH TIME: 08:30**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-8

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-8**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Along Eastern wall**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: J. Pfeiffer	**OPERATOR: Dan Brunquell**	**START TIME: 11:35**
DEPTH WATER ENCOUNTERED: 6.67 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 12:10**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0.0-7.0' SAND and GRAVEL (fill): sand and gravel, fill with large and small boulders, cobbles throughout, slag pieces - largest is 1' in diameter, dry, brick bits and whole throughout 4" diameter pipe (fill) 3' length present, brown and black color.	
2		0.0				
3		0.0			2.7': Black coal, looks and feels like pumice rock. No odors, no visible impacts 1 ft thick lense across test pit.	
4		0.0				
5		0.0			4.9': Slag, black, no odor, no visible impacts, 1 ft thick across test pit.	
6		0.0				
		0.0			6.67': Groundwater observed.	Collected Sample TP-8 (6.4-6.7') No sheen on water.
7						
					Test pit terminated at 7.0 ft bgs.	

Definitions:

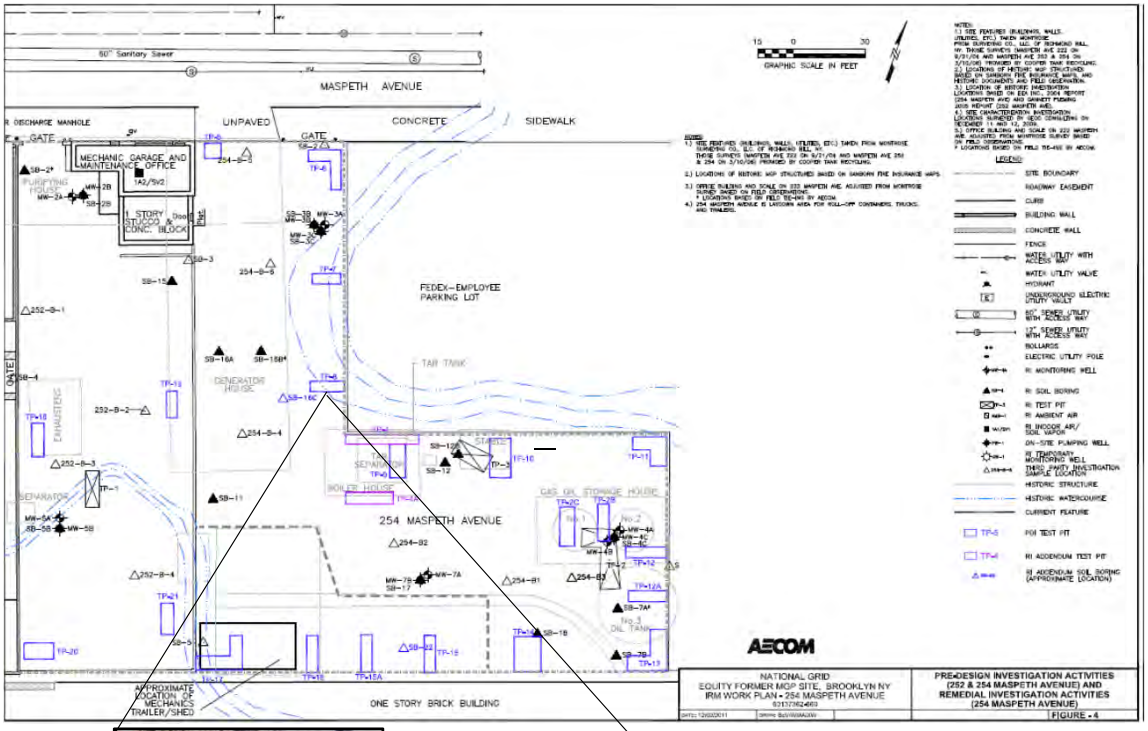
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-8

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-8**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Along Eastern wall**	**START DATE: 9/1/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/1/2011**
GEOLOGIST: J. Pfeiffer	**OPERATOR: Dan Brunquell**	**START TIME: 11:35**
DEPTH WATER ENCOUNTERED: 6.67 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 12:10**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-9

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-9**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: North fence along FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: S. Pandya, J. Ehlen	**OPERATOR: Dan Brunquell**	**START TIME: 15:20**
DEPTH WATER ENCOUNTERED: 7.0 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 16:15**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND		Fill	0-2' SAND (fill): sand, brick, pebbles, cobbles, concrete, light brown color.	
2		0.3			2'-4': Black stained, weathered coal fragments throughout on north, south, east, west walls, no odors, no visible or olfactory impacts observed/detected, bricks observed in layers.	
3		0.3				
4		0.3			4'-7': cinder blocks, 1.8' lense of bricks, and .3-.5' lense of cobbles, fine sand, little silt, brown.	
5		0.3				
6		0.3				
7		1.8				
					Test pit terminated at 7.0 ft bgs.	

Definitions:

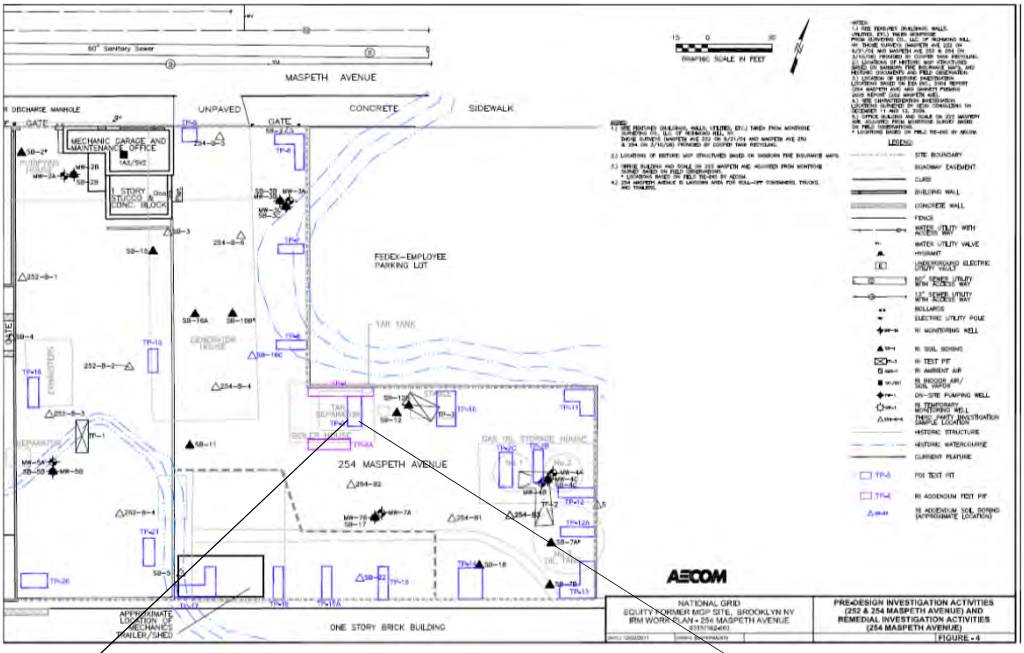
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-9

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-9**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: North fence along FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: Jessica Ehlen/Shail Pandya	**OPERATOR: Dan Brunquell**	**START TIME: 15:20**
DEPTH WATER ENCOUNTERED: 7.0 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 16:15**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-10

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-10**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: North fence along FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: S. Pandya, J. Ehlen	**OPERATOR: Dan Brunquell**	**START TIME: 13:05**
DEPTH WATER ENCOUNTERED: 7.0 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 13:45**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND		FILL	0-1' SAND (fill): sand with ~10% silt, cobbles, bricks, no odors, no visual impacts.	
2		ND			1'-7': SAND (fill): sand with ~10% silt, ~40% cobbles stones up to 1" in diameter, bricks, no odor, no visual impacts.	
3		ND				
4		ND				
5		ND				
6		ND				
7		3.2			6'-7': Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no NAPL impacts observed.	

Test pit terminated at 7.0 ft bgs.

Definitions:

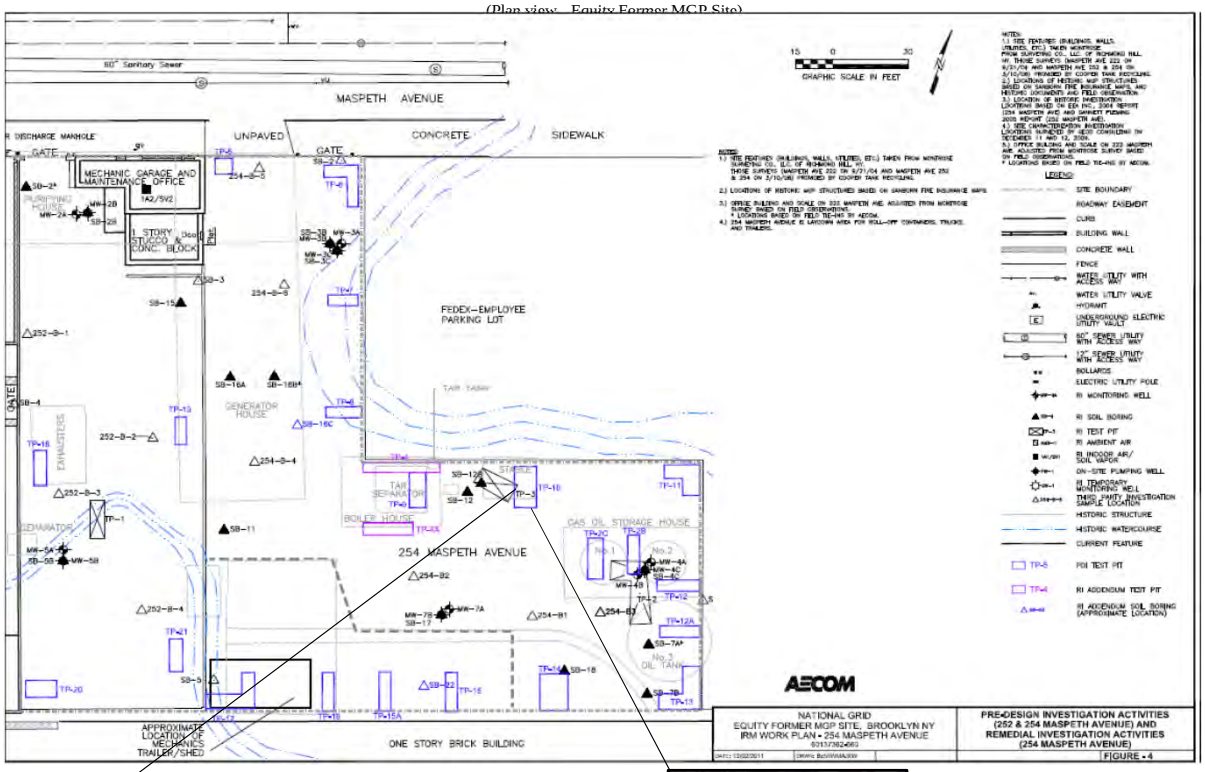
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-10

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-10**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: North fence along FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: Jessica Ehlen/Shail Pandya	**OPERATOR: Dan Brunquell**	**START TIME: 13:05**
DEPTH WATER ENCOUNTERED: 7.0 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 13:45**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-11

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-11**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: East corner by FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: Christie Battenhouse/Jessica Ehlen	**OPERATOR: Dan Brunquell**	**START TIME:**
DEPTH WATER ENCOUNTERED:	**TOTAL DEPTH: 7.33 ft bgs**	**FINISH TIME:**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0			0-7.33': SAND (fill): sand with pebbles, cobbles, bricks, concrete, brown, no odors or visual impacts.	
2		0.0				
3		0.0				
4		0.0				3.5-5': brick layer observed in east to west direction test pit 3.5-4': brick layer observed in north to south direction test pit.
5		0.0				
6		0.0				
7		0.0			6-6.68': north to south direction test pit: layer of slag, cinders and ash observed on north wall	Collected sample TP-11 (6-6.63')

Test pit terminated at 7.33 ft bgs.

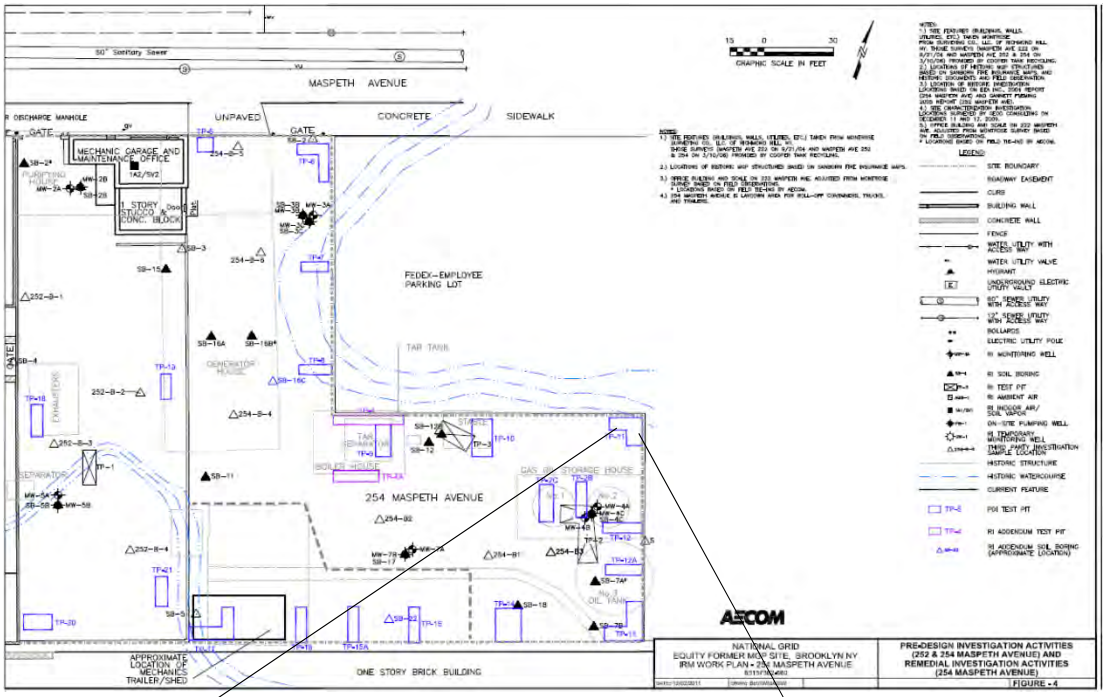
Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

AECOM	Test Pit Log	TP-11

PROJECT NO:	**60137362**	**TEST PIT DESIGNATION:** TP-11	**SURFACE ELEVATION:** TBD
CLIENT:	National Grid	**SITE LOCATION OR AREA:** East corner by FedEx parking lot	**START DATE:** 9/8/2011
SITE NAME:	Equity Former MGP Site	**EQUIPMENT USED:** Backhoe	**FINISH DATE:** 9/8/2011
GEOLOGIST:	Christie Battenhouse/Jessica Ehlen	**OPERATOR:** Dan Brunquell	**START TIME:**
DEPTH WATER ENCOUNTERED:		**TOTAL DEPTH:** 7.33 ft bgs	**FINISH TIME:**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-11A

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-11**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: East corner by FedEx parking lot**	**START DATE: 9/8/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/2011**
GEOLOGIST: S. Pandya/J. Ehlen	**OPERATOR: Dan Brunquell**	**START TIME: 1245**
DEPTH WATER ENCOUNTERED:	**TOTAL DEPTH: 1.0 ft bgs**	**FINISH TIME: 1250**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0			0.5-1.0': observe solid NAPL pieces.	(TP-11A is 13.0' between southern edge of TP-11 in N-S direction and TP-12).
2						
3						
4						
5						
6						
7						

Test pit terminated at 1.0 ft bgs.

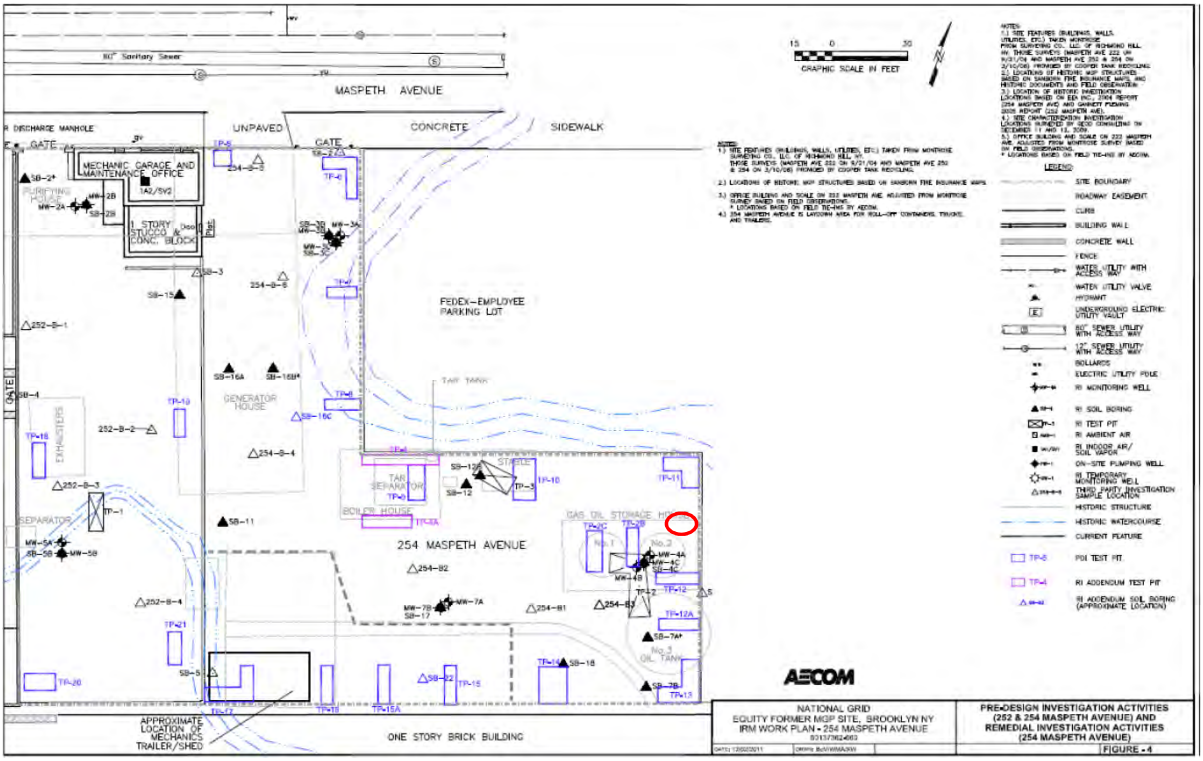
Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

AECOM	Test Pit Log	TP-11A

PROJECT NO: 60137362		TEST PIT DESIGNATION: TP-11	SURFACE ELEVATION: TBD
CLIENT:	National Grid	SITE LOCATION OR AREA: East corner by FedEx parking lot	START DATE: 9/8/2011
SITE NAME:	Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/2011
GEOLOGIST:	S. Pandya, J. Ehlen	OPERATOR: Dan Brunquell	START TIME: 1245
DEPTH WATER ENCOUNTERED:		TOTAL DEPTH: 7.33 ft bgs	FINISH TIME: 1250

(Plan view - Equity Former MGP Site)



Test Pit Log

TP-12

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-12**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: eastern edge of site; center of eastern fence line**	**START DATE: 9/6/11**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/6/11**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1445**
DEPTH WATER ENCOUNTERED: not encountered	**TOTAL DEPTH: 5.0 ft bgs**	**FINISH TIME: 1545**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND		FILL	0-5' SAND (fill): sand with <20% silt, bricks, and rocks. 0.5': heavily NAPL coated to tar-saturated lense on western wall to (minimum of) 4.75' on eastern wall; soil appeared to be unimpacted under shallow lense on western wall (~0.5 to 2' bgs); impacts appear to continue down to bottom on the eastern wall.	
2		ND				
3		ND				
4		ND				Collected sample TP-12 (4-5)
5		ND			Test pit terminated due to very strong odor.	
6						
7						

Test pit terminated at 5.0 ft bgs.

Definitions:

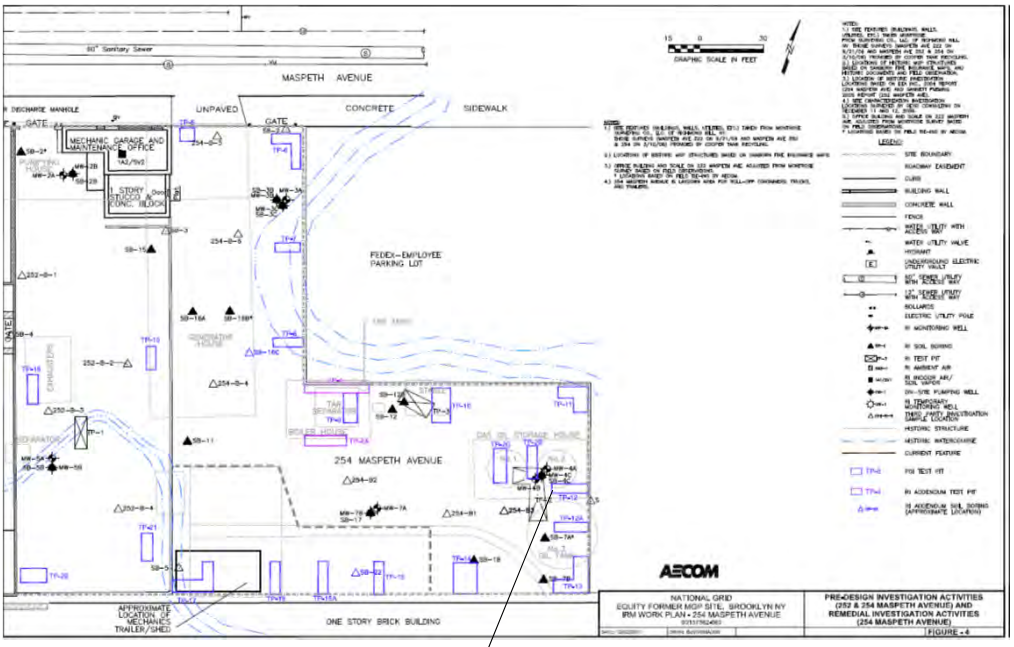
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP- 12

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-12**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: eastern edge of site; center of eastern fence line**	**START DATE: 9/6/11**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/6/11**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1445**
DEPTH WATER ENCOUNTERED: not encountered	**TOTAL DEPTH: 5.0 ft bgs**	**FINISH TIME: 1545**

(Plan view - Equity Former MGP Site)





Test Pit Log

TP-12A

PROJECT NO: 60137362	**TEST PIT DESIGNATION:** TP-12A	**SURFACE ELEVATION:** TBD
CLIENT: National Grid	**SITE LOCATION OR AREA:** south-eastward out from NW corner of N-S portion of TP-13	**START DATE:** 9/8/11
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED:** Backhoe	**FINISH DATE:** 9/8/11
GEOLOGIST: C. Battenhouse	**OPERATOR:** Dan Brunquell	**START TIME:** 0850
DEPTH WATER ENCOUNTERED: not encountered	**TOTAL DEPTH:** 5 ft bgs	**FINISH TIME:** 0930

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND			0-5' SAND (fill): sand with mostly bricks, < 20% silt; dry to moist. Observed on all four walls of test pit; brick layer at 0.4' to approximately 3' bgs; bricks on bottom of test pit at 5' bgs. Excavator bucket unable to advance through this layer. No visual impacts or odor observed.	
2		ND			TP-12A: ~19 ft south of TP-12. Impacts observed at approximately 0.5 ft bgs. Moved location approximately 7 ft further south and same impacts observed (sand saturated with NAPL approximately 0.5 ft bgs. Moved another approximately 7 ft further south intersecting with the western end of TP-13.	
3		ND				
4		ND				
5		ND				Collected sample TP-12A
6						
7						

Test pit terminated at 5.0 ft bgs.

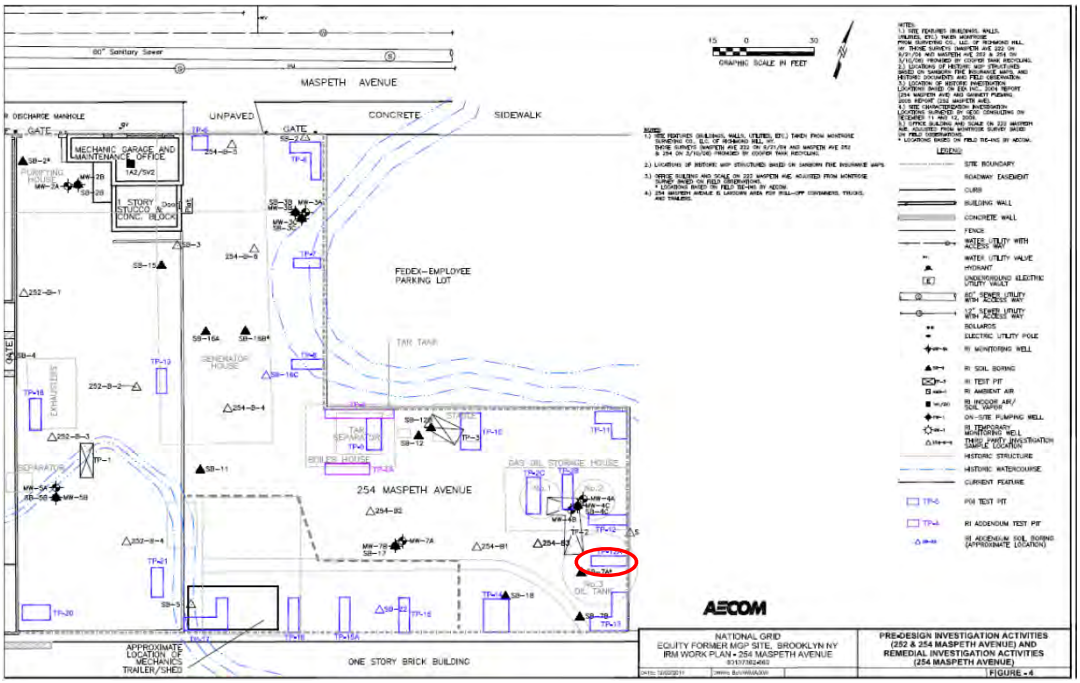
Definitions:

1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

AECOM	Test Pit Log	TP-12A

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-12A**	**SURFACE ELEVATION: TBD**
CLIENT: **National Grid**	**SITE LOCATION OR AREA: south-eastward out from NW corner of N-S portion of TP-13**	**START DATE: 9/8/11**
SITE NAME: **Equity Former MGP Site**	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/8/11**
GEOLOGIST: **C. Battenhouse**	**OPERATOR: Dan Brunquell**	**START TIME: 0850**
DEPTH WATER ENCOUNTERED: not encountered	**TOTAL DEPTH: 5 ft bgs**	**FINISH TIME: 0930**

(Plan view - Equity Former MGP Site)



Test Pit Log

TP-13

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-13**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South east corner of site between fence and building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 12:45**
DEPTH WATER ENCOUNTERED: ~6 ft bgs	**TOTAL DEPTH: 6.16 ft bgs**	**FINISH TIME: 13:35**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-6' SAND (fill): sand with pebbles and cobbles, concrete, bricks (various size pieces), slag (ash-sand sized pieces), bricks (small to large throughout), dry to moist, no visible impacts observed or odors detected.	
2		0.0				1.5' bgs: possible footing, brick and mortar structure. Possible foundation of oil tank
3		0.0				
4		0.0				1.5-4' by 2.5' wide: Bottom edge of bricks, possible structure on eastern and southern test pit wall.
5		ND				
6		ND			6.0': Groundwater observed at bottom, wet, past bricks, no staining of odor.	Collected sample TP-13 (5.5-6.0)
7						

Test pit terminated at 6 ft bgs.

Definitions:

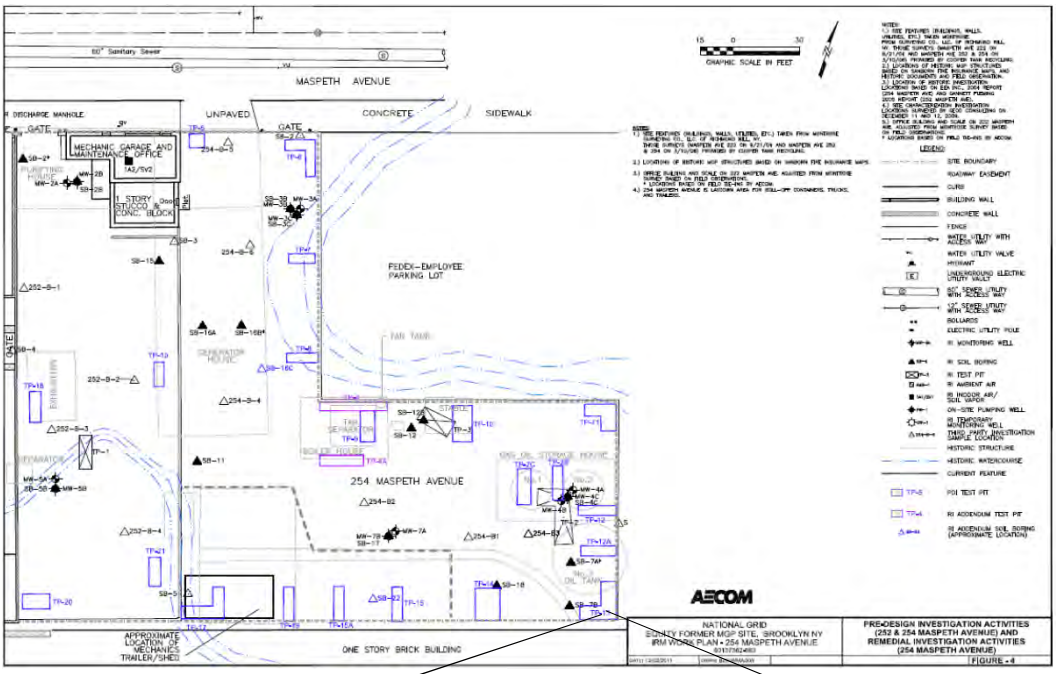
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-13

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-13**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South east corner of site between fence and building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 12:45**
DEPTH WATER ENCOUNTERED: ~6 ft bgs	**TOTAL DEPTH: 6.16 ft bgs**	**FINISH TIME: 13:35**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-14

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-14**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South side of site adjacent to building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 14:20**
DEPTH WATER ENCOUNTERED: 6.83 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 15:25**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.0		FILL	0-7' SAND (fill): sand, mixed urban debris including rugs, tires, plastic bags, wood pieces, bricks, cobbles, concrete (pebble to boulder sized), dry to moist, very slight naphthalene-like odor (possibly from wood debris).	
2		0.0			2': large boulder, pieces of brick with mortar on southern side of test pit.	
3		0.0				
4		0.0			4': observe less amounts of urban debris, no visible impacts observed or odors detected.	
5		0.0				
6		0.0				
7		ND			6.83': Groundwater observed.	
					Test pit terminated at 7.0 ft bgs.	

Definitions:

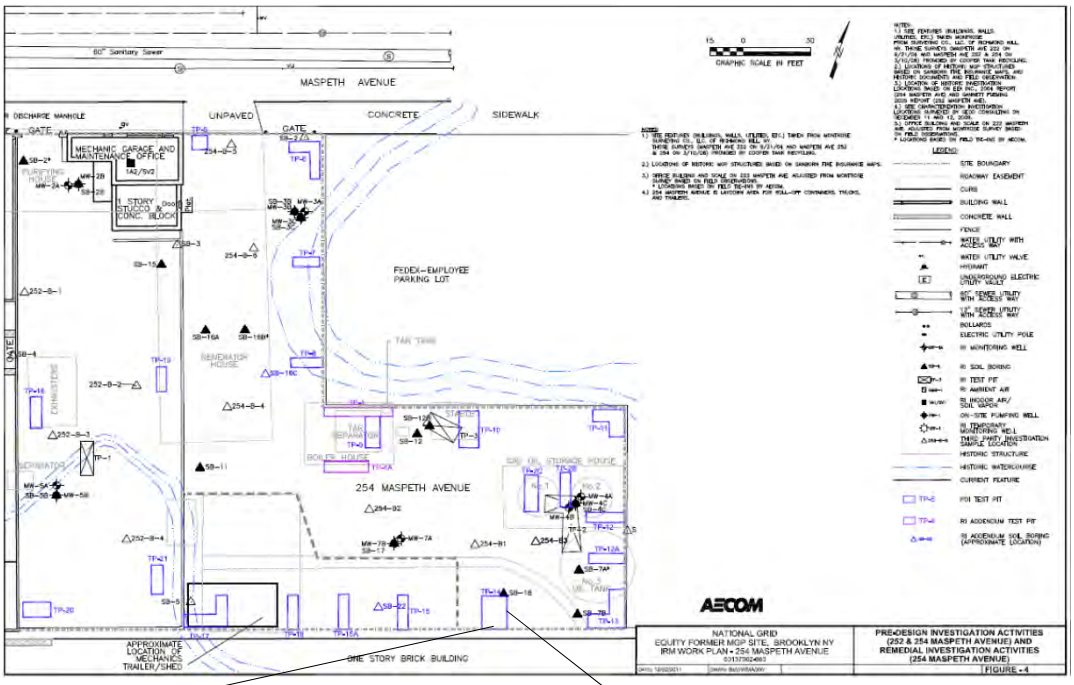
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP-14

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-14**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South side of site adjacent to building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 14:20**
DEPTH WATER ENCOUNTERED: 6.83 ft bgs	**TOTAL DEPTH: 7.0 ft bgs**	**FINISH TIME: 15:25**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-15

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-15**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: SOUTH SIDE OF SITE, AGAINST TO BLDG ADJACENT TO SITE**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 0730**
DEPTH WATER ENCOUNTERED: 6 ft bgs	**TOTAL DEPTH: 6 ft bgs**	**FINISH TIME: 0815**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND			0-6.0' SAND (fill): sand and rocks (pebble to boulder-size), mixed urban debris including; rugs, tires, plastic bags, wood pieces, bricks, cobbles, concrete (pebble to boulder sized), dry to moist, sulfur-like odor throughout. Increased amount of urban fill along northern and eastern walls of the test pit. No visible impacts observed or odors detected. The mixed urban debris appears to have been previously burned.	
2		ND			2.0': Blackish-colored layer observed (urban debris appears to have been burned or discolored from natural staining (possibly from sulfate reducing bacteria). Very slight naphthalene-like odor (possibly from groundwater).	
3		ND				
4		ND				
5		ND				
6		ND			6.0': Groundwater observed.	
7						

Test pit terminated at 6.0 ft bgs.

Definitions:

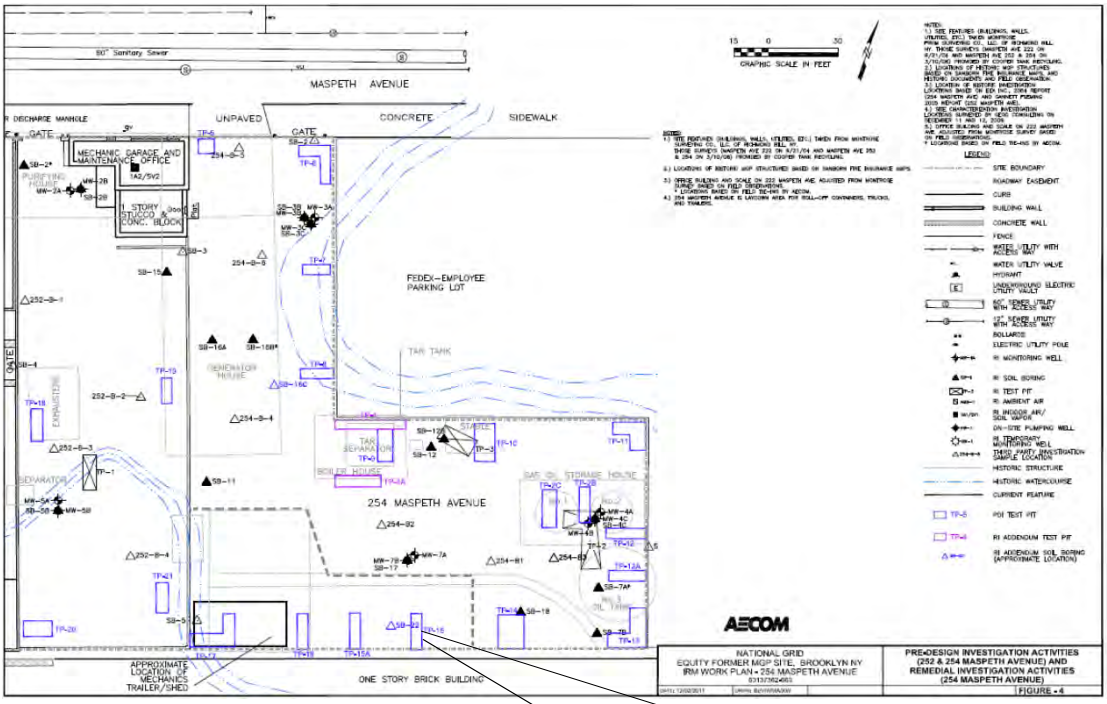
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-15

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-15**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: SOUTH SIDE OF SITE, AGAINST TO BLDG ADJACENT TO SITE**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 0730**
DEPTH WATER ENCOUNTERED: 6 ft bgs	**TOTAL DEPTH: 6 ft bgs**	**FINISH TIME: 0815**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-15A

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-15A**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South side of site; against bldg adjacent to site**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 0845**
DEPTH WATER ENCOUNTERED: 6 ft bgs	**TOTAL DEPTH: 6 ft bgs**	**FINISH TIME: 0945**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		ND			0-6' SAND (fill): sand with pebbles, cobbles, bricks, mixed urban debris including: ceramic tile, netting, wood pieces small and large seem to have been previously burned, rugs, tires, plastic (bags and pieces), wood (small and large pieces), concrete (small and larger bolder size pieces), dry to moist, wet at bottom, very slight naphthalene-like odor (most likely from groundwater); no visual impacts observed.	
2		ND				
3		ND				
4		ND				
5		ND				
6		ND			5.5': groundwater observed. naphthalene-like odor detected (most likely from the groundwater).	
7		ND				
					Test pit terminated at 7.0 ft bgs.	

Definitions:

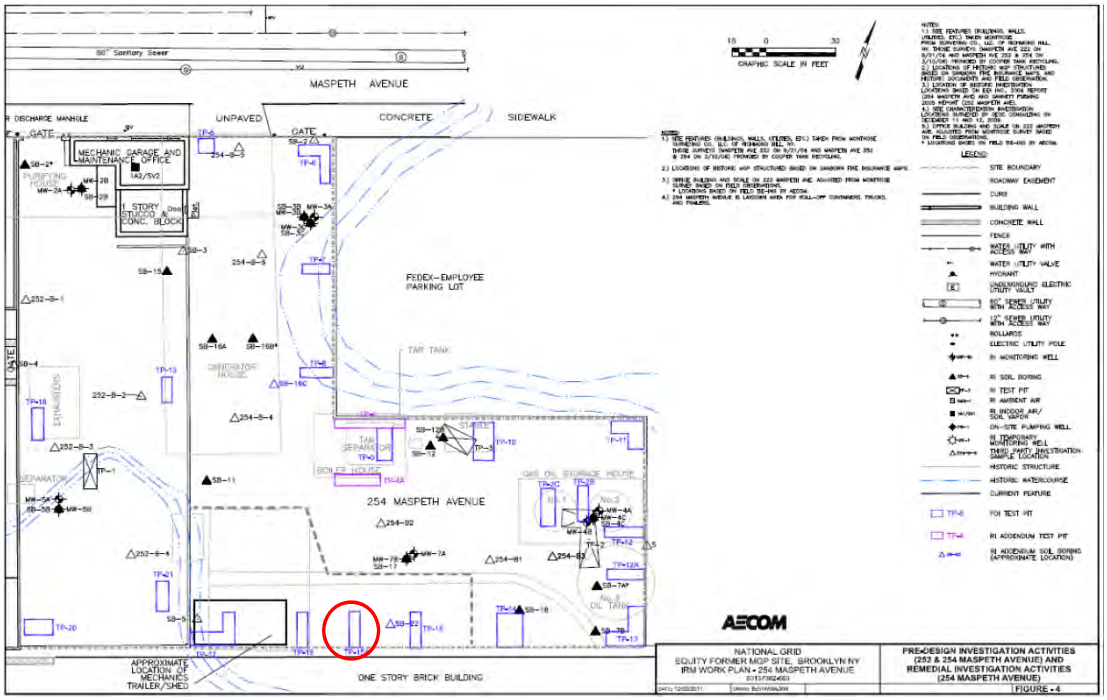
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System
9.) ND - Not Documented

Test Pit Log

TP- 15A

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-16A**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: South side of site; against bldg adjacent to site**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 0845**
DEPTH WATER ENCOUNTERED: 6 ft bgs	**TOTAL DEPTH: 6 ft bgs**	**FINISH TIME: 0945**

(Plan view - Equity Former MGP Site)



Test Pit Log

TP-16

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-16**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Southern wall of site adjacent to building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C.Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 09:30**
DEPTH WATER ENCOUNTERED: 7.92 ft bgs	**TOTAL DEPTH: 8.0 ft bgs**	**FINISH TIME: 10:45**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1		0.2		FILL	0-5' SAND (fill): sand with pebbles and cobbles, concrete, brick, glass, < 5% boulder sized pieces, <20% silt, coal, ash, and slag (silt to sand-sized particles throughout).	
2		0.4			1.5-3' on western wall: small pocket (2' by 1.5') of weathered, solid NAPL; slight to moderate odor.	
3		0.3				
4		0.3				
5		3.5				
6		12.8			5-5.75': (western and southern wall) sand with silt, coated to pockets of saturation with NAPL (weathered to residual, more weathered on western side), strong to moderate odor (odor stronger where soil or slag was coated).	Collected sample TP-16 (5-6)
7		0.5			6.0-7.0': Moderate to slight odor detected.	
8		0.3			7.0-8.0': Slight odor detected.	
					7.92': Groundwater observed seeping in.	
					Test pit terminated at 8.0 ft bgs.	

Definitions:

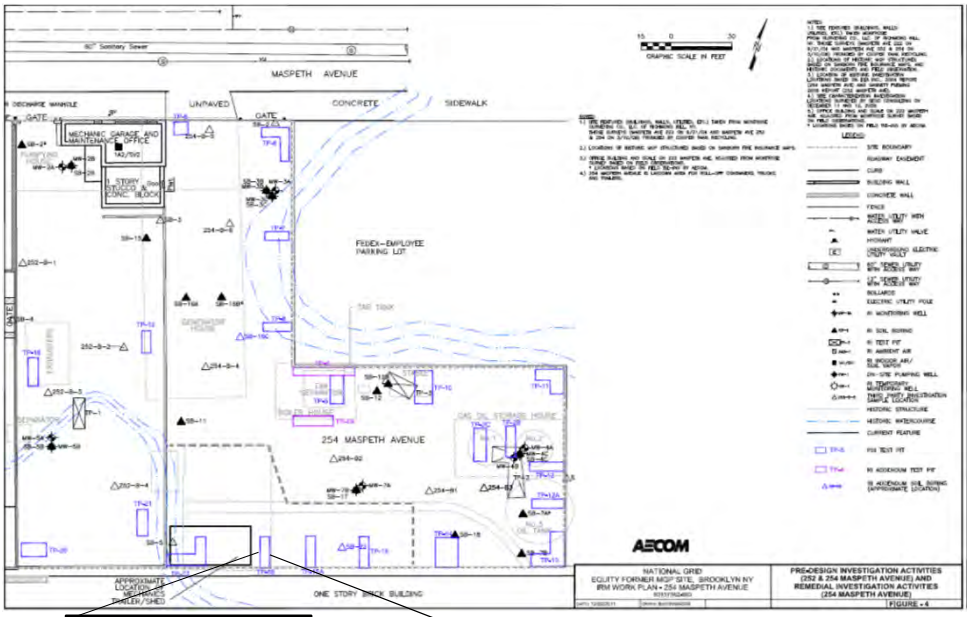
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP-16

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-16**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: Southern wall of site adjacent to building**	**START DATE: 9/2/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/2/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 09:30**
DEPTH WATER ENCOUNTERED: 7.92 ft bgs	**TOTAL DEPTH: 8.0 ft bgs**	**FINISH TIME: 10:45**

(Plan view - Equity Former MGP Site)







Test Pit Log

TP-17

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-17**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: SW corner of site**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: Christie Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1015**
DEPTH WATER ENCOUNTERED: 6.66 ft bgs	**TOTAL DEPTH: 6.66 ft bgs**	**FINISH TIME: 1145**

DEPTH (FEET)	VISUAL IMPACTS (FEET)	PID HEADSPACE (PPM)	SOIL STRATIG-RAPHY USCS	SOIL CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED OR COMMENTS
1					0-6.66' SAND (fill): sand with pebbles, cobbles, boulders (small and large), bricks, pieces of metal (small and large), wood chips and pieces, moderate to strong naphthalene-like odor.	
2						
3						2.7' bgs: possible concrete footing or structure, starts at 2.6' bgs to at least 6.66' at bottom of test pit (on eastern wall)
4						
5					4.5-5' east-west test pit: layer of hardened NAPL, visible on western, northern, and eastern walls and does not appear to extend to southern wall of this section of test pit 4.75-5.25' bgs layer of hardened NAPL on eastern and western walls of test pit.	NW-SE test pit dimensions: 14.5' long, 5.0' wide, 6.5' deep; 2.5' from bldg on southern side of site E-W test pit dimensions: 14.5' long, 3.66' wide, 6.66' deep; 4' east of wall on SW corner of site and 3' from bldg on southern side of site
6						Collected sample TP-17
7					6.5-6.66': groundwater observed.	
					Test pit terminated at 6.66 ft bgs.	

Definitions:

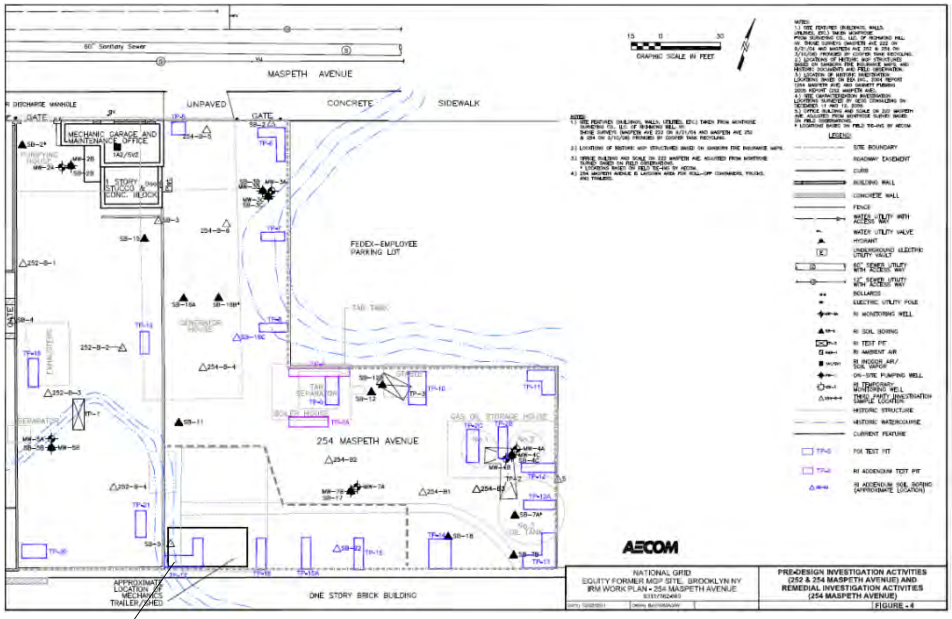
1.) NA - Not Applicable
2.) ft - feet
3.) SAA - Same As Above
4.) bgs - below ground surface
5.) ppm - parts per million
6.) PID - Photo Ionization Meter
7.) NAVD 88 - North American Vertical Datum of 1988
8.) U.S.C.S. - Unified Soil Classification System

Test Pit Log

TP- 17

PROJECT NO: 60137362	**TEST PIT DESIGNATION: TP-17**	**SURFACE ELEVATION: TBD**
CLIENT: National Grid	**SITE LOCATION OR AREA: SW corner of site**	**START DATE: 9/7/2011**
SITE NAME: Equity Former MGP Site	**EQUIPMENT USED: Backhoe**	**FINISH DATE: 9/7/2011**
GEOLOGIST: C. Battenhouse	**OPERATOR: Dan Brunquell**	**START TIME: 1015**
DEPTH WATER ENCOUNTERED: 6.66 ft bgs	**TOTAL DEPTH: 6.66 ft bgs**	**FINISH TIME: 1145**

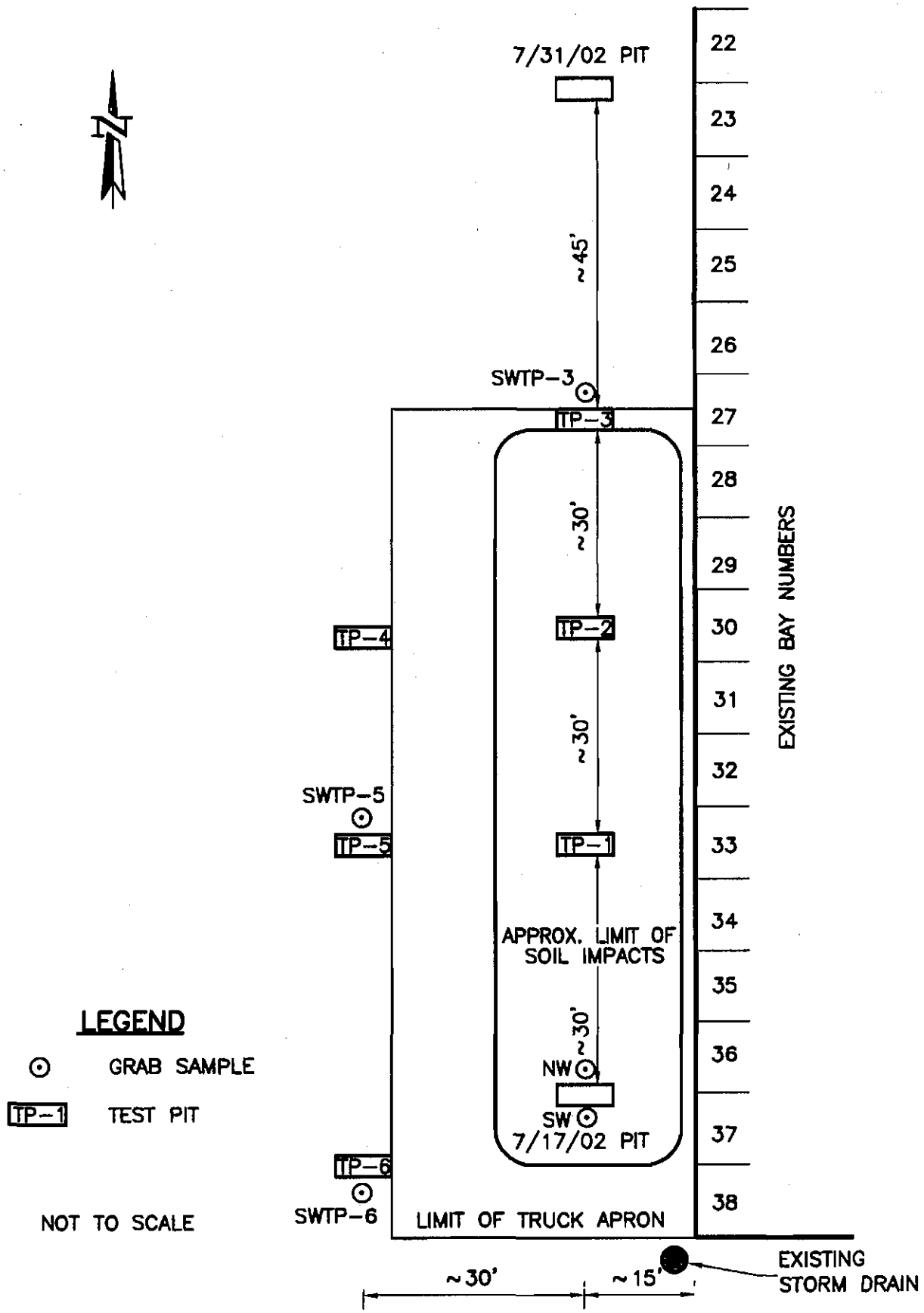
(Plan view - Equity Former MGP Site)





Off-Site by Others Test Pit Logs

FIGURE 3

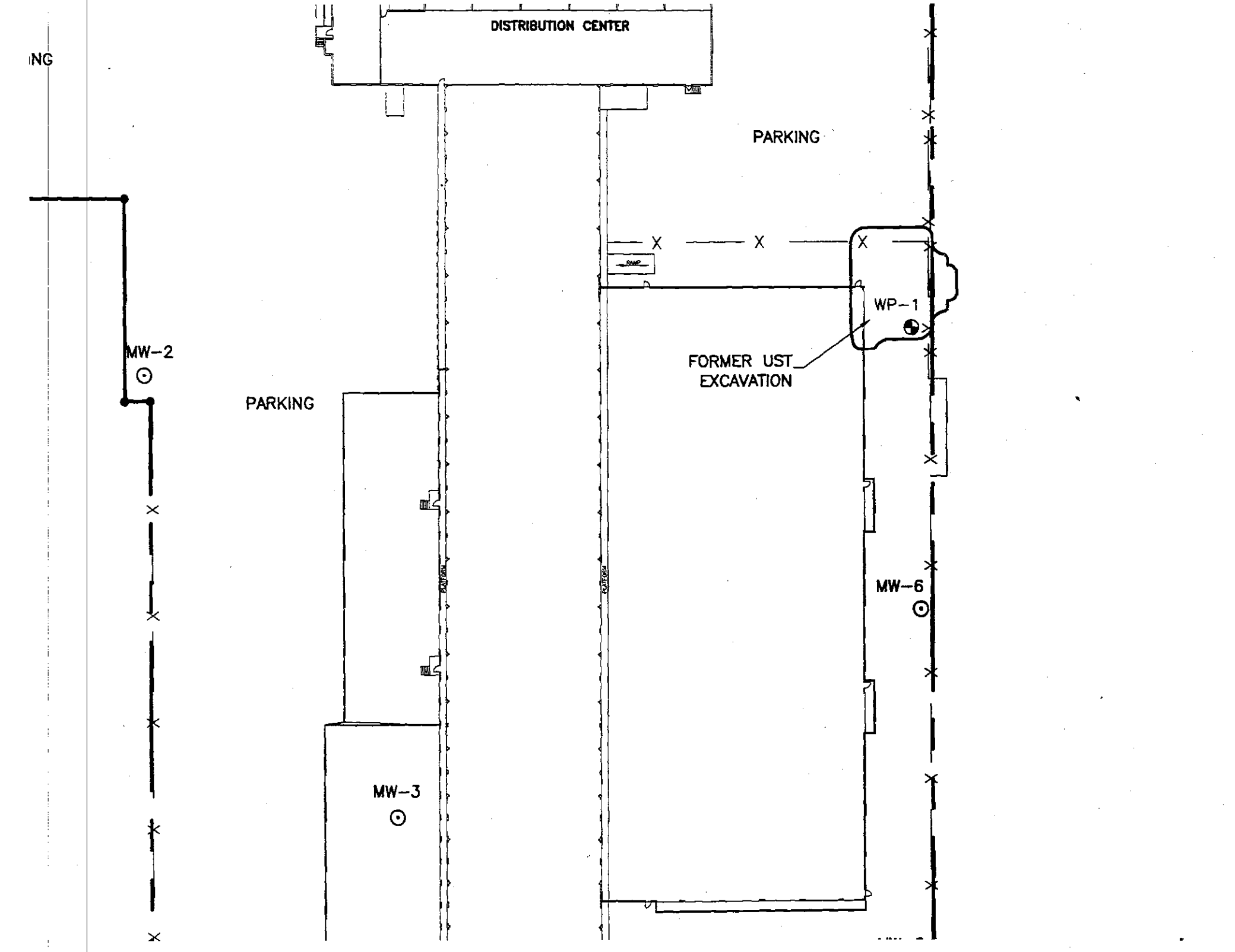


SCHEMATIC OF TEST PIT EXCAVATIONS

FEDEX GROUND

SOUTHWEST PORTION OF MASPETH AVE, BROOKLYN, NEW YORK

SN39936C
082702


NG
DISTRIBUTION CENTER
PARKING
MW-2
PARKING
WP-1
FORMER UST
EXCAVATION
MW-6
MW-3

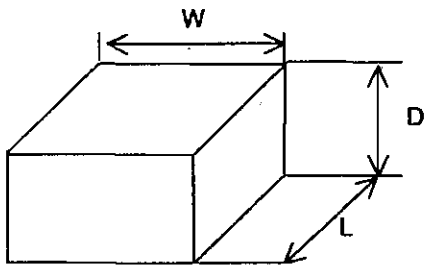
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-1
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 7.0 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5		H2O										
		at 8'			8'	-	-	-				Sheen on water table
	End											
10												
15												
20												

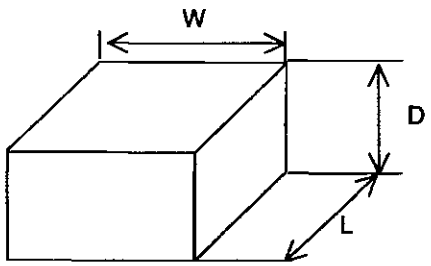
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-2
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~ 35 ppm	No sample collected.
	1-2' Asphalt with sub-base											
	>2' Black, organic urban fill of fine sand & silt, rock, brick, wood,											
5	concrete, etc.											
		H2O										Heavy sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

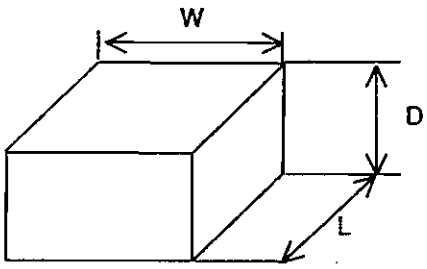
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-3
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1' Brown fill, silt with rock, brick, concrete.										~0.5 ppm	Sample collected at 5 feet deep.
	1-2' Asphalt with sub-base											
	>2' Black to dark brown, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-3		
5												
		H2O										Sheen on water table
		at 8'			8'	-	-	-				
	End											
10												
15												
20												

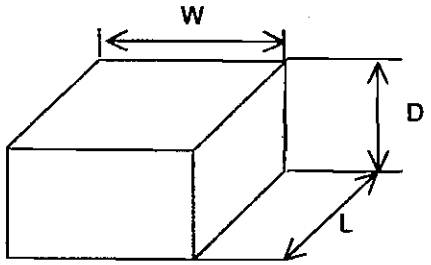
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-4
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	No sample collected.
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
5		H2O										
		at 8'			8'	-	-	-			30 ppm	Sheen on water table
	End											
10												
15												
20												

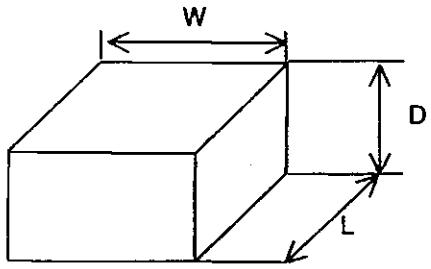
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-5
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5

D = 9

L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	> 1.5' dark brown urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-5		
5												
		H2O										
		at 8'			8'	-	-	-			~ 3 ppm	Sheen on water table
	End											
10												
15												
20												

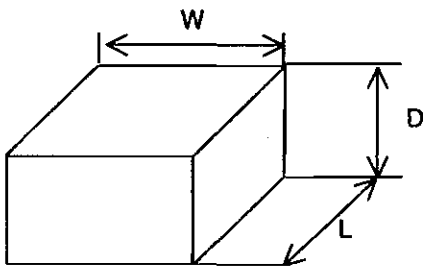
TEST PIT EXCAVATION LOG

Gannett Fleming

SHEET 1 OF 1

DATE OF EXCAVATION: 8/2/02	DATE BACKFILLED: 8/2/02	TEST PIT NO.:	TP-6
CLIENT: FedEx Ground		PROJECT NO.:	39936.000
PROJECT NAME: 300 Maspeth Ave., Bkln, NY		PREPARED BY:	Gregory Ernst
CONTRACTOR: Gilbane	LOGGED BY: Gregory Ernst	OPERATOR:	

TEST PIT DIMENSIONS:



W = 5
D = 9
L = 10

SKETCH:

See Figure 3.

AMBIENT AIR TOTAL ORGANIC VAPORS: 1.5 ppm

SURFACE CONDITIONS: Clear

DEPTH BELOW GRADE (FT)	DESCRIPTION & REMARKS: TRACE=0-10%, LITTLE=10-20%, SOME=20-30%, AND=35-50%	MOISTURE	UNIFIED SOIL CLASSIF-ICATION	SEEPAGE DEPTH	GROUNDWATER DEPTH	GROUNDWATER SP. COND.	GROUNDWATER pH	GROUNDWATER T°F	SAMPLE MATRIX	SAMPLE ID#	SAMPLE OVA/PID READING	COMMENTS
0	0-1.5' Asphalt with sub-base,										1.5 ppm	
	1.5 - 2.5' Brown coarse sand and gravel											
	>2.5' Black, organic urban fill of fine sand & silt, rock, brick, wood, concrete, etc.											
									Soil	SW TP-6		
5												
		H2O										
		at 8'			8'	-	-	-			~ 15 ppm	Sheen on water table
	End											
10												
15												
20												

Appendix F

Well Development Logs

Well/Piez. ID: MW-1A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: 60137362.300 Date: 11/9/09 Developer: Ron

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 1" Material PVC

Geology at Screen Interval (if known)

Well TD: 14.66

DTW - 7.57

Time of Water Level Measurement 11:27

Calculate Purge Volume (gal.) 3 Well Volume 0.87

Disposal Method off-site

No odor

Wellhead PID/FID 0.2 ppm

☐ Redevelopment ☐ Date of Original Development

PURGE METHOD Peristaltic Pump

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
10:00	2				4.10				

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☑

If no or N/A explain below:

Date:

Well/Piez. ID: MW-13

Well/Piezometer Development Record

Client: NATIONAL GRID Site Location: EQUITY, BROOKLYN, NY

Project No: 60137362 Date: 11/3/09 Developer: KAMTON

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter _____ Material _____

Geology at Screen Interval (if known) _____

Time of Water Level Measurement _____

Calculate Purge Volume (gal.)

Disposal Method _____

Wellhead PID/FID _____

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD PERISTALTIC

Make	Model	Serial Number
GEOPUMP		AD675

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
1140	0.2	15.7	6.87	1.46	9999	8.19	GRAY	NONE	V. SILTY
1145	1.4	15.4	6.98	2.51	27.1	8.30	GRAY	NONE	M. SILTY
1150	2.5	15.7	6.90	1.99	1726	8.11	BROWN	NONE	
1155	3.0	15.5	6.83	1.61	710	8.09	BROWN	NONE	S SILTY
1200	4.0	15.6	6.78	1.55	99.7	8.01	BROWN	NONE	CLEARING
1205	5.0	15.7	6.75	1.54	1043	7.99	BROWN	NONE	
1210	6.0	15.6	6.78	1.53	134	8.06	BROWN	NONE	SURGE WELL
1215	7.0	15.6	6.79	1.50	2597	8.07	BROWN	NONE	V. SILTY
1220	8.0	15.5	6.78	1.54	150	8.07	BROWN	NONE	
1225	8.5	15.5	6.79	1.53	92.1	8.06	L. BROWN	NONE	CLEARING

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-1C

Well/Piezometer Development Record

Client: National Grid Site Location: Equity, Brooklyn, NY

Project No: 60137362 Date: 11/30/09 Developer: Canton

WELL/PIEZOMETER DATA

☑ Well Piezometer ☐ Diameter 1" Material PVC

Geology at Screen Interval (if known)

Time of Water Level Measurement

Calculate Purge Volume (gal.)

Disposal Method OFFSITE

Wellhead PID/FID

☐ Redevelopment ☐ Date of Original Development

PURGE METHOD Peristaltic

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
1315	START	14.7	7.54	1.01	620	7.80	CLEAR	NAPH.	SURGE
1320	0.5	14.6	8.50	1.17	9999	7.76	DARK GRAY	NAPH	V. SILTY
1330	2.0	13.5	7.72	1.42	142	7.65	"	"	
1340	2.5	14.1	7.22	1.46	125	7.44	"	"	PUMP DOWN TO 20'
1350	3.5	14.4	7.52	1.53	9999	7.47	"	"	SL. SHEEN NOTED
1405	5.0	14.4	7.60	1.43	760	7.55	CLEAR		
1415	7.0	14.0	6.88	1.53	296	7.48			

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed _____ NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

10-625
2763

Well/Piez. ID: MW-2A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/9/09 Developer: Royal Testing

WELL/PIEZOMETER DATA

☒ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

TD: 15.89

DTW: 6.67

DTP: 9.34

Time of Water Level Measurement _____

Calculate Purge Volume (gal.) 4.5

Disposal Method off site

No odor

Wellhead PID/~~FID~~ 4.0 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

ms/cm mg/L

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
10:05	3	15.5	7.01	3.12	FAR 4	5.83	Black	V	
10:25	15	17.0	6.89	3.15	FAR	5.12	Gray	V	
11:35	22	16.7	6.87	3.19	11.0	5.27	Clear	V	

by 0.10
213
999
215

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-2B

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/11/09 Developer: Frank, Paragon Envt

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

Well TD: 40.67

DTW: 10.51

Time of Water Level Measurement 11:20

3 Well Vol

Calculate Purge Volume (gal.) 14.74

Disposal Method off-site

No odor

Wellhead PID/~~FID~~ 39.4 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD Whale pump

Make	Model	Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos) ms/cm	Turbidity (NTUs)	DO mg/l	Color	Odor	Other	
7:40		12.1	7.18	2.58	38.5	10.48	Gray			282 by 0-10
10:10	20	14.8	7.17	2.52	39.1	9.37	Clear			603

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-3A

Well/Piezometer Development Record

Client: National Grid Site Location: Brooklyn, NY

Project No: _____ Date: 11/11/09 Developer: Priyal Pandya

WELL/PIEZOMETER DATA

☒ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

TD : 16.44
DTW : 6.28
DTP : 8.99

Time of Water Level Measurement _____

Calculate Purge Volume (gal.) 4.46

Disposal Method on-site

Wellhead PID/~~FID~~ 56.8 ppm

no odor

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD Whale Pump

Make	Model	Serial Number

mS/cm

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
9:00	5	16.1	7.06	2.35	Exn	5.71	Black	✓	
9:15	15	17.1	7.04	2.24	26.8	5.32	Grey	✓	
9:20	20	17.3	6.94	2.24	36.3	5.35	Grey	✓	

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-3B

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/11/09 Developer: _____

WELL/PIEZOMETER DATA

☒ Well ☐ Piezometer Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

TD : 35.02

DTW : 10.05

DTP : 12.65

Time of Water Level Measurement _____

Calculate Purge Volume (gal.) 12.21

Disposal Method _____

No odor

Wellhead PID/~~FID~~ 333 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

ms/cm

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	mg/L DO	Color	Odor	Other
14:10		14.7	7.38	8.21		9.37	clear	✓	sheen
14:45	3	14.8	7.35	6.63		9.48	Brown	✓	Purging with pump
15:00	5	Terminated pumping							

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-3C

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/10/09 Developer: Paragon

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

TD : 75.34

DTW : 9.68

Time of Water Level Measurement 11:42

3 well Vol

Calculate Purge Volume (gal.) 32.10

Disposal Method off-site

No odor

Wellhead PID/FID 38 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
0.50 11:50	35				26.4				

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☑

If no or N/A explain below:

Date:

Well/Piez. ID: MW-4A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn NY

Project No: _____ Date: _____ Developer: _____

WELL/PIEZOMETER DATA

☒ Piezometer ☐ Diameter 2" Material PVC

Data from 11/09 Data from 11/10

TD : 13.36 TD 13.36

DTW : 7.08 DTW 7.11

DTP : 9.70

Geology at Screen Interval (if known) _____

Time of Water Level Measurement _____

Calculate Purge Volume (gal.) 3.06

Disposal Method _____

Odor

Wellhead PID/~~FID~~ 308 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make	Model	Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
	5								

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-4B

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11109109 11/10/09 Developer: Ron, Paul

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

Well TD: 39.12

DTW: 11.50

Time of Water Level Measurement 12:07

Calculate Purge Volume (gal.) 3 well volume 13.50

Disposal Method off-site

Wellhead PID/FID ~~39.12~~ 4.8 ppm odor

☐ Redevelopment ☒ Date of Original Development 11/6/09

PURGE METHOD submersible pump

Make _____ Model _____ Serial Number _____

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
8:50					128				
9:25					72.6				
9:50					93.5				
11:10	60				108				

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below: _____

Date: _____

Well/Piez. ID: MW-4C

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/10/09 Developer: Paragon Envt

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) Paragon Envt.

Well TD: 81.67

DTW: 9.90

Time of Water Level Measurement 12:12

Calculate Purge Volume (gal.) 3 well Volume 35.09

Disposal Method Off-site

No odor

Wellhead PID/~~FID~~ ~~88.84~~ 32.5 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
8:21	39				3.31				

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☑

If no or N/A explain below:

Date:

Well/Piez. ID: MW-5A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: ~~11/10/09~~ 11/10/09 Developer: Frank, Ron

WELL/PIEZOMETER DATA

☑ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

Well TD: 15.61

DTW = 8.75

Time of Water Level Measurement 11:05

3 well Vol

Calculate Purge Volume (gal.) 3.35

Disposal Method off-site

No odor

Wellhead PID/~~PID~~ 282 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD Whale pump

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
13:50	0.27				13.8		gray	✓	sheen

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☑

If no or N/A explain below:

Date:

Well/Piez. ID: MW-5B

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: _____ Developer: _____

WELL/PIEZOMETER DATA

☒ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) Fine

TD : 34.53

DTW : 13.48

DTP : 16.07

Time of Water Level Measurement _____

Calculate Purge Volume (gal.) 10.29

well was under pressure & odor

Disposal Method _____

Wellhead PID/~~FID~~ 66.6 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

mS/cm Brown

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
12:00		14.3	7.51	6.03	152	9.49	~~Clear~~	✓	
12:10	5	14.0	7.18	5.36	Error	9.46	~~Brown~~	✓	Brown
12:45	~~10~~ 15	14.4	7.18	6.02	Error	9.50	~~Cloudy~~	✓	Grey
1330		14.3	6.90	6.22	121	9.68	Brown	✓	Sheen
1345	20	14.5	6.91	6.18	27.4	9.42	Brown	✓	sheen

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-6A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/6/09 Developer: Ron

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter 1" Material PVC

Geology at Screen Interval (if known) _____

Well TD: 14.90

DTW: 7.11

Time of Water Level Measurement 11:28

3 well volume 0.95 gal

Calculate Purge Volume (gal.) ~~3.80~~ ~~0.38~~

~~Well TD:~~

Disposal Method off-site

No odor

Wellhead PID/~~FID~~ 0.0 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD Peristaltic pump

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
	2				432		Black	✓	petroleum/Septic
					↓		grey		

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-63

Well/Piezometer Development Record

Client: National Grid Site Location: Brooklyn NY

Project No: 60137362 Date: 4/30/08 Developer: Center

WELL/PIEZOMETER DATA

☐ Piezometer ☐ Diameter _____ Material _____

Geology at Screen Interval (if known) _____

Time of Water Level Measurement _____

Calculate Purge Volume (gal.)

Disposal Method _____

Wellhead PID/FID _____

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
1310	initial	13.9	9.11	0.789	999	7.35	D.Gray	none	v. Silty
1320	1.2	14.3	9.04	0.506	999	7.02	D.Gray	none	Silty
1325	1.5	13.3	8.92	0.770	999	7.32			well dry
	2.6								

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed _____ NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date:

Well/Piez. ID: MW-7A

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/11/09 Developer: Priyal Pandya, Ron

WELL/PIEZOMETER DATA

☒ Monitoring Well ☐ Piezometer Diameter 2" Material PVC

Data from 11/9/09: TD : 16.17; DTW : 7.41; DTP : 10.07

Data from 11/10: TD : 16.17; DTW: 7.10

Geology at Screen Interval (if known) _____

Time of Water Level Measurement 12:02

Calculate Purge Volume (gal.) ~~4.39~~ 4.28

Disposal Method on-site

Wellhead PID/~~FID~~ 2.2 ppm

No odor

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

Make _____ Model _____ Serial Number _____

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (mS/cm) (umhos)	Turbidity (NTUs)	DO (mg/l)	Color	Odor	Other
7:45	5	15.6	6.87	2.27	>1000	8.87	Black	✓	
7:55	10	16.3	7.19	2.33	533	8.55	Black/Gray	✓	
8:05	20	15.8	7.32	2.38	12.9	8.34	Clear	✓	

Sig by Turbidimeter 26.6

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	✓	☐	☐
Has required turbidity been reached	✓	☐	☐
Have parameters stabilized	✓	☐	☐

If no or N/A explain below: _____

Date: _____

Well/Piez. ID: MW-7B

Well/Piezometer Development Record

Client: National Grid Site Location: Maspeth Ave, Brooklyn, NY

Project No: _____ Date: 11/10/09 Developer: Priyal Pandya

WELL/PIEZOMETER DATA

☒ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

Well TD: 40.76

DTW: 11.03

Time of Water Level Measurement 11:57

(3 well Vol)

Calculate Purge Volume (gal.) 14.84 14.53

Disposal Method Off-site

No odor

Wellhead PID/~~FID~~ 12.1 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD whale pump

Make Model Serial Number

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other
12:00	38				33.4			✓	Sheen

H_2S odor

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed 50 NTUs

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☐	☐	☑

If no or N/A explain below: _____

Date: _____

AECOM

ENVIRONMENT

Well/Piezometer Development Record

Well/Piez. ID: ~~MW-8S~~ MW-20A

Client: National Grid

Site Location: Fenton

Project No 60137362 Date: 11/8/11

Developer: BMoyle

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter 2" Material PVC

Measuring Point Description top of pvc

Geology at Screen Interval (if known) 1.66 x 10 = 16.6

Depth to Top of Screen (ft.)

Depth to Bottom of Screen (ft.)

Time of Water Level Measurement 4:20

Total Well Depth (ft.) 16.75

Calculate Purge Volume (gal.) 16.6

Depth to Static Water Level (ft.) 6.61

Disposal Method 55 gal. drum

Wellhead PID/FID —

Original Well Development ☒ Redevelopment ☐

Date of Original Development 11/8/11

DEVELOPMENT METHOD whale pump

PURGE METHOD purge, surge.

Field Testing Equipment Used:

Make	Model	Serial Number
YSI ~~650~~ 560		04B1157AG
remote 2020		24D

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
4:23	5	18.51	7.41	2096	Off Scale	4.45	Black	none	slight sheen
4:33	~~15~~	12.74	6.94	2067	875	2.02	Black	none	slight sheen
4:43	~~25~~	12.30	6.89	2010	39	1.54	clear	none	

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☐	☒	☐

If no or N/A explain below

3

Signature _____ Date: 11/8/11

17.08 after development - hard Bottom

SAB 20.01

(4)

MW8I

Well/Piez. ID: ~~MW8D~~ MW8I MW-20B

AECOM

ENVIRONMENT

Well/Piezometer Development Record

Client: National Grid

Site Location: Fenty

Project No 60137362 Date: 11/8/11

Developer: Braye

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter 2" Material PVC

Measuring Point Description TOPVC

Geology at Screen Interval (if known)

Depth to Top of Screen (ft.) 30

Depth to Bottom of Screen (ft.) 40

Total Well Depth (ft.) 41.84

Depth to Static Water Level (ft.) 10.48

Time of Water Level Measurement

Calculate Purge Volume (gal.) 5 & 10 gal

Disposal Method 55 gal drum

Wellhead PID/FID

Original Well Development ☒ Redevelopment ☐

Date of Original Development 11/8/11

DEVELOPMENT METHOD whale pump

PURGE METHOD purge, surge

Field Testing Equipment Used:

Make	Model	Serial Number
YSI	09811572	
Lamotte	2020	242

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
3:12	5	15.42	7.37	2003	720	2.07	clear	sulfide	
3:20	10	14.96	7.26	0235	2181	4.25	grey	sulfide	
3:29	15	14.89	7.10	2383	324	1.53	clear	sulfide	
3:40	20	14.87	7.10	2489	324	1.52	grey	sulfide	
3:50	25	15.04	7.11	2496	288	1.25	clear	sulfide	
4:00	30	14.81	7.05	2389	34	1.25	clear	sulfide	

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Sulfide smell Hard Bottom

Signature _____ Date 11/8/11

(3)

~~NLWSD~~ SB20C

Well/Piez. ID: ~~NLWSD~~ SB20C

AECOM
ENVIRONMENT

Well/Piezometer Development Record

Client: National Grid. Site Location: equity

Project No 60137362 Date: 11/9/11 Developer: Bmart

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐ Diameter 2 Material PVC

Measuring Point Description: Top PVC

Depth to Top of Screen (ft.): 10

Depth to Bottom of Screen (ft.): 80

Total Well Depth (ft.): 80.01

Depth to Static Water Level (ft.): 8.88

Geology at Screen Interval (if known):

Time of Water Level Measurement: 1:07

Calculate Purge Volume (gal.): 11 gal × 10

Disposal Method: 55 gal drum

Wellhead PID/FID: -

Original Well Development ☐ Redevelopment ☐

Date of Original Development: 11/8/11

DEVELOPMENT METHOD whale pump

PURGE METHOD purge, surge.

Field Testing Equipment Used:

Make	Model	Serial Number
YSI	650	04B115716
Lamotte	2020	202

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
1:22	5	~~R.54~~	7.55	19.60	~~9.12~~	~~1.90~~	~~Brown~~	~~H2S~~	
1:29	9	15.41	7.50	2033	767	2.94	Brown	H2S	tar smell
1:50	25	15.56	7.41	2669	off scale	~~2.94~~	Brown	tar	DO. 50
1:58	30	16.09	7.47	3102	off scale	4.08	Brown	tar	
2:08	40	15.18	7.43	2730	off scale	1.80	Brown	tar	
2:20	50	16.03	7.50	2153	off scale	1.25	Brown	tar	
2:30	60	14.93	7.46	2615	1488	2.93	light Brn	tar	
2:35	65	14.62	7.47	1968	100.3	2.93	clear	tar	
2:40	70	14.62	7.49	2008	34.6	2.89	clear	tar	Odor?

naptha = tar

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

no product detected well damaged at top sulfide smell at start
Tar smell after 1st 5 gal

Signature _____ Date 11/8/11

1 well = 11

DTB 80.85 After Development

(2) (SB-37)

AECOM

ENVIRONMENT

Well/Piezometer Development Record

Well/Piez. ID: MWPC

Client: national grid

Site Location: Equity

Project No 60137362 Date: 11/9/11

Developer: Bunyc

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter 2" Material PVC

Measuring Point Description top of PVC

Depth to Top of Screen (ft.) 70

Depth to Bottom of Screen (ft.) 80

Total Well Depth (ft.) ~~79~~ 76.96

Depth to Static Water Level (ft.) 7.59

Geology at Screen Interval (if known)

Time of Water Level Measurement 9:50

Calculate Purge Volume (gal.)

Disposal Method 55 gal drum

Wellhead PID/FID —

Original Well Development ☒ Redevelopment ☐

Date of Original Development 11/9/11

DEVELOPMENT METHOD whale pump purge, surge

PURGE METHOD whale pump purge, surge

Field Testing Equipment Used:

Make	Model	Serial Number
YSI	~~650~~ 650	
Lemotte 220		

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
10:00	5	—	—		off scale?	—	grey		too thick/heavy sediment
10:10	15	15.99	2.40	1741	off scale	3.11	grey		heavy sediment
10:16	30	16.03	2.08	1795	off scale	2.91	grey	none	"
10:29	30	15.93	7.03	1859	off scale	3.90	grey	none	changed drum
10:43	40	12.32	6.84	1897	2344	1.21	light grey	none	
10:50	50	16.53	6.81	16.88	770	1.77	clear/grey	none	
11:01	20	16.43	6.74	16.59	40.5	1.83	clear	none	done

slight sulfide

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☒	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☐	☒	☐

If no or N/A explain below:

after development DTB 81.09

Signature Brad

Date: 11/9/11

(1)

AECOM

ENVIRONMENT

Well/Piez. ID: MW10C

Well/Piezometer Development Record

Client: national Grid

Site Location: Equity

Project No 60137362 Date: 11/9/11

Developer: B Mayo

WELL/PIEZOMETER DATA

Well ☑ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter 2" Material pvc

Measuring Point Description top of pvc

Geology at Screen Interval (if known) ~~silt~~

Depth to Top of Screen (ft.) 70

Depth to Bottom of Screen (ft.) 80

Time of Water Level Measurement 7:10

Total Well Depth (ft.) 80.40 soft Bottom

Calculate Purge Volume (gal.)

Depth to Static Water Level (ft.) 8.79

Disposal Method 55 gal drum

Wellhead PID/FID -

Original Well Development ☑ Redevelopment ☐

Date of Original Development 11/9/11

DEVELOPMENT METHOD ~~Purge surge.~~ Whale pump.

PURGE METHOD ~~purge surge.~~ Whale pump

Field Testing Equipment Used:

Make	Model	Serial Number
YSI	560	
Lemott	2020	242

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
7:13	5	13.83	7.04	3954	off scale	0.80	Brown	slight	napha
7:19	10	14.26	7.12	3268	off scale	1.18	Brown	slight	napha
7:25	15	14.15	7.15	3200	off scale	1.72	Brown	slight	napha
7:37	25	14.38	7.02	2480	off scale	1.44	Brown	"	"
7:44	40	14.13	7.09	2391	off scale	3.70	Brown	"	"
7:04	55	14.38	6.90	2155	3676	2.72	Brown	"	" changed Drums
8:12	65	14.54	6.91	2251	2244	2.49	Light Brown	"	"
8:17	70	14.67	6.88	1761	709	2.90	clear		
8:26	78	14.59	6.85	1755	47	2.20	clear		
8:30	82	14.68	6.82	1881	9.8	2.55	clear		

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____ gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below

well Bottom after development 80.93

Signature _____ Date: 11/9/11

Well Development Form

Project Number:	60137362	Well ID:	MW-11B
Project Name:	Equity Former MGP	Sample ID:	
Date:	9/6/2012	Permit Number:	
Weather:	~75°, overcast	Well Condition:	Good

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):		Depth to Product* (feet)	
Inner Casing Diameter (inch):	2	Initial Depth to Water* (feet):	9.56
Inner Casing Material:	PVC	Product Thickness (feet):	
Purge/Sample Method:	whale pump	Depth to Top of Screen* (feet):	
Pump Intake Setting* (feet):		Total Depth* (feet):	40.1
PID/FID Reading of Well Headspace (ppm)		Water Column (feet):	35.94
Before Cap Removal:		Casing Volume (gal):	6.34
After Cap Removal:		DTW After Pump Installed:	

PURGING/SAMPLING INFORMATION

Time	Flow Rate (gal/min)	pH (SI Units)	Conductivity (µohm/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
13:08	~1.0							29.8	
13:17	~1.0	6.49	10.1	17.46	6.01	2244	-110	36.6	light grey
13:22	~1.0	6.69	11.3	17.11	4.09	771	-187	36.8	light grey
13:27	~1.0	6.64	12.1	17.06	3.66	136	-226	37.1	light grey
13:32	~1.0	6.65	12.6	17.11	3.34	82	-238	37.8	light grey
13:37	~1.0	6.65	12.7	17.23	3.14	7.94	-248	37.4	light grey
13:42	~1.0	6.64	12.9	17.22	2.91	8.14	-257	36.9	light grey

Start Purge Date/Time:	12:45	Pre-Sample Depth to Water* (feet):	
End Purge Date/Time:	13:45	Start Sample Date/Time:	
Total Colume Purged (gal):	~20	End Sample Date/Time:	
Depth to Water After Purge* (feet):		Sampler Names:	K.Barbour and J.Pfeiffer

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
DTB after purge 45.51 ft bgs

Well Development Form

Project Number:	60137362	Well ID:	MW-11C
Project Name:	Equity Former MGP	Sample ID:	
Date:	9/6/2012	Permit Number:	
Weather:	~75°, overcast	Well Condition:	Good

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):		Depth to Product* (feet)	
Inner Casing Diameter (inch):	2	Initial Depth to Water* (feet):	8.56
Inner Casing Material:	PVC	Product Thickness (feet):	
Purge/Sample Method:	whale pump	Depth to Top of Screen* (feet):	
Pump Intake Setting* (feet):		Total Depth* (feet):	102.5
PID/FID Reading of Well Headspace (ppm)		Water Column (feet):	93.54
Before Cap Removal:		Casing Volume (gal):	15.27
After Cap Removal:		DTW After Pump Installed:	

PURGING/SAMPLING INFORMATION

Time	Flow Rate (gal/min)	pH (SI Units)	Conductivity (µohm/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
14:13	~1					2174			brown
14:16	~1					1209			brown
14:20	~1	7.35	1.42	15.4	3.22	71.1	-194	22.76	light grey
14:25	~1	7.19	1.47	15.27	2.7	27.2	-200	22.23	clear
14:30	~1	7.12	1.47	15.21	2.45	38	-205	21.81	clear
14:35	~1	7.1	1.49	15.21	2.34	23.5	-205	21.27	clear

Start Purge Date/Time:	14:00	Pre-Sample Depth to Water* (feet):	
End Purge Date/Time:	14:35	Start Sample Date/Time:	
Total Colume Purged (gal):	~35 gal	End Sample Date/Time:	
Depth to Water After Purge* (feet):		Sampler Names:	K.Barbour/ J.Pfeiffer

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

Well Development Form

Project Number:	60137362	Well ID:	MW-12B
Project Name:	Equity Former MGP	Sample ID:	
Date:	9/7/2012	Permit Number:	
Weather:	~70° humid, overcast	Well Condition:	Good

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):		Depth to Product* (feet)	
Inner Casing Diameter (inch):	2	Initial Depth to Water* (feet):	8.88
Inner Casing Material:	PVC	Product Thickness (feet):	
Purge/Sample Method:	whale pump	Depth to Top of Screen* (feet):	
Pump Intake Setting* (feet):		Total Depth* (feet):	40.5
PID/FID Reading of Well Headspace (ppm)		Water Column (feet):	31.62
Before Cap Removal:		Casing Volume (gal):	5.15
After Cap Removal:		DTW After Pump Installed:	

PURGING/SAMPLING INFORMATION

Time	Flow Rate (gal/min)	pH (SI Units)	Conductivity (µohm/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
9:24									well running dry
9:27									well running dry
9:33	pump off								well running dry
9:41	pump on								well running dry
9:48									well running dry
9:49	pump off								well dry

Start Purge Date/Time:	9:17 AM	Pre-Sample Depth to Water* (feet):	
End Purge Date/Time:		Start Sample Date/Time:	
Total Colume Purged (gal):		End Sample Date/Time:	
Depth to Water After Purge* (feet):		Sampler Names:	

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
well ran dry, slow recharge, unable to develop well

Well Development Form

Project Number:	60137362	Well ID:	MW12-C
Project Name:	Equity Former MGP	Sample ID:	
Date:	9/7/2012	Permit Number:	
Weather:	~70°, overcast, humid	Well Condition:	Good

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):		Depth to Product* (feet)	
Inner Casing Diameter (inch):	2	Initial Depth to Water* (feet):	8.57
Inner Casing Material:	PVC	Product Thickness (feet):	
Purge/Sample Method:	whale pump	Depth to Top of Screen* (feet):	
Pump Intake Setting* (feet):		Total Depth* (feet):	87.71
PID/FID Reading of Well Headspace (ppm)		Water Column (feet):	79.2
Before Cap Removal:		Casing Volume (gal):	12.93
After Cap Removal:		DTW After Pump Installed:	

PURGING/SAMPLING INFORMATION

Time	Flow Rate (gal/min)	pH (SI Units)	Conductivity (µohm/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
10:17	~1.0	6.25	1.28	15.21	2.55	7.18	-78	8.90	clear
10:22	~1.0	6.70	1.21	15.46	1.62	2.69	-146	8.90	clear
10:27	~1.0	6.91	1.22	15.17	1.88	3.24	-158	8.90	clear
10:32	~1.0	6.97	1.23	15.20	1.42	1.69	-164	8.89	clear

Start Purge Date/Time:	9:42 AM	Pre-Sample Depth to Water* (feet):	
End Purge Date/Time:	10:32 AM	Start Sample Date/Time:	
Total Colume Purged (gal):	~45	End Sample Date/Time:	
Depth to Water After Purge* (feet):		Sampler Names:	K.Barbour/ J.Pfeiffer

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
purge water dark grey, very silty from 9:42 to 10:15

(SB 2B)

Well/Piez. ID: MW14B

AECOM

ENVIRONMENT

Well/Piezometer Development Record

Client: National Grid

Site Location: Fairfield

Project No 60137362 Date: 11/9/11

Developer: Bmays

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter 2" Material PVC

Measuring Point Description Top of pvc

Depth to Top of Screen (ft.) 33'

Depth to Bottom of Screen (ft.) 43'

Total Well Depth (ft.) 36.68

Depth to Static Water Level (ft.) 11.97

Geology at Screen Interval (if known)

Time of Water Level Measurement 1111

Calculate Purge Volume (gal.) 32.13×0.163=5.2 (1wv) 32 (10 wv).

Disposal Method 55 gal drum

Wellhead PID/FID —

Original Well Development ☒ Redevelopment ☐

Date of Original Development 11/9/11

DEVELOPMENT METHOD whale pump purge, surge

PURGE METHOD purge, surge, whale pump

Field Testing Equipment Used: Make YSI Model Lemotte 2020 Serial Number 247

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
1120	5	14.60	11.85	6045	offscale	2.12	grey	slight	naptha
1128	10	-	-	-	-	-	-	water is pink?	tar blebs
1150	20	-	-	-	-	-	-	-	tar/water
2:05	30	-	-	-	-	-	-	-	tar/water
2:14	45	-	-	-	-	-	-	-	- end

check ec standard ph 7.00 standard it reads 7.09

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed 50 NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☒	☒	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☐	☒	☐

8.5 well volumes

If no or N/A explain below:

very high ph, water has pink hue, tar blebs lots of tar
Did not take readings did not want to cover meters with tar
strong naptha smell

Signature _____ Date: 11/9/11

Tar seems to only enter in
The last foot of the well
DTB after development 44.10
tar blebs on the last foot of the tape

AECOM
ENVIRONMENT

Well/Piezometer Development Record

Well/Piez. ID: MW-15B (SB-29)

Client: National Grid
Project No 60137362 Date: 11/9/11

Site Location: Emily
Developer: Bruno

WELL/PIEZOMETER DATA

Well ☒ AS Point ☐ SVE Point ☐ Piezometer ☐

Measuring Point Description: top of PVC
Depth to Top of Screen (ft.): 37
Depth to Bottom of Screen (ft.): 47
Total Well Depth (ft.): 32.72
Depth to Static Water Level (ft.): 7.28

Diameter: 2"
Material: PVC
Geology at Screen Interval (if known): silt
Time of Water Level Measurement:
Calculate Purge Volume (gal.):
Disposal Method: 55 gal drum
Wellhead PID/FID: -
Date of Original Development: 11/9/11
PURGE METHOD: purge, surge: Whale pumps

Original Well Development ☒ Redevelopment ☐

DEVELOPMENT METHOD: bobcat pump surge, purge.

Field Testing Equipment Used: Make / Model / Serial Number
YSI 560
Lemotte 2020 240

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other
2300	5	14.24	12.17	6821	OFF SCALE	2.39	grey	NONE	

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons
Maximum Turbidity Allowed _____ NTUs
Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☒	☐
Has required turbidity been reached	☐	☒	☐
Have parameters stabilized	☐	☒	☐

If no or N/A explain below:

Unable to develop the well, it ran out of water casing may be damaged, very slow recharge

Signature: Bruno Date: 11/9/11

AECOM

Well/Piezometer Development Record

Well/Piez. ID: MW156

ENVIRONMENT

Client: National Grid

Site Location: Easton

Project No _____ Date: 11/11/11

Developer: Barnes

WELL/PIEZOMETER DATA

Well ☐ AS Point ☐ SVE Point ☐ Piezometer ☐

Diameter _____ Material _____

Measuring Point Description _____

Geology at Screen Interval (if known) _____

Depth to Top of Screen (ft.) _____

Depth to Bottom of Screen (ft.) _____

Time of Water Level Measurement _____

Total Well Depth (ft.) 36.15

Calculate Purge Volume (gal.) _____

Depth to Static Water Level (ft.) 28.37

Disposal Method _____

Wellhead PID/FID _____

Original Well Development ☒ Redevelopment ☐

Date of Original Development _____

DEVELOPMENT METHOD _____

PURGE METHOD _____

Field Testing Equipment Used: Make Model Serial Number

_____

_____

Field Testing Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (µS/cm)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Min. Purge Volume (____ well volumes) _____gallons

Maximum Turbidity Allowed _____ NTUs

Stabilization of parameters _____%

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

2nd attempt to develop well ~~[illegible]~~ pumped app. 20 gal of clean water into the well while pumping it out going at few inches water is as clear coming out as going in hard bottom

Signature _____ Date: 11/11/11

9:00 36.82

8:00 27.95
8:37 27.84

Well/Piez. ID: MW-15B

AECOM

Well/Piezometer Development Record

Client: National Grid Site Location: Equity

Project No: 60137362 Date: 12/19/11 Developer: J. Ehlen / K. Barbour

WELL/PIEZOMETER DATA

well ☑ Piezometer ☐ Diameter 2" Material PVC

Geology at Screen Interval (if known) _____

10.35' btoc

dtb 47.70' btoc

dtp 38.52' btoc

Time of Water Level Measurement 2:45 PM

Calculate Purge Volume (gal.) _____

Disposal Method 55 gal drum

Wellhead PID/FID 3.10 ppm

☐ Redevelopment ☐ Date of Original Development _____

PURGE METHOD _____

	Make	Model	Serial Number
	Horiba	U-52	18776
	Hach	2100P	012357

	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	Other

ACCEPTANCE CRITERIA (from workplan)

Maximum Turbidity Allowed _____ NTUs

	Yes	No	N/A
Has required volume been removed	☐	☐	☐
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A explain below:

Date: 12/19/11

Did not develop well 10.70' of far in well

Appendix G

Groundwater Collection Records

December 2009

Table 1
Monitoring Well Construction, Fluid Gauging, and Groundwater Elevation Summary - December 2009 through 2012
Former Equity MGP, Brooklyn, NY

MW ID	Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Date Installed	Well Diameter	Screen Slot	Screened Interval (ft bgs)	Date Developed	11-Dec-09						12-Jan-10						06-Sep-12				14-Sep-12					Comments		Groundwater Elevation (ft)			
										DTW	DTP	DTB	Product Thickness	Well Head PID (ppm)	Additional Comments	DTW	DTP	DTB	Product Thickness	Well Head PID (ppm)	Additional Comments	Depth to Water (ft bloc)	Groundwater Elevation (ft datum)	Product Thickness (ft)	Depth to Bottom (ft bloc)	Comments	Depth to Water (ft bloc)	Groundwater Elevation (ft datum)	Product Thickness (ft)	Depth to Bottom (ft bloc)			11-Dec-09	12-Jan-10	6-Sep-12	14-Sep-12
Shallow Zone Wells																																			
MW-1A	686456.68	648929.59	12.92	12.63	10/22/09	1" pre-pack	0.010	5-15	11/10/09	7.78	-	15.00	-	0	Clean probe. No odor. No sheen.	7.22	-	15.00	-	0.1	10:10 AM, Slope Meter, Hard bottom	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		4.85	5.41	NM	NM
MW-2A	686714.26	649124.28	12.38	11.95	10/15/09	2" pvc	0.020	5-15	11/11/09	6.22	-	16.70	-	0	Bottom .20' of probe gray silt, faint sheen, unknown hydrocarbon like odor.	6.04	-	16.33	-	1.8	10:46 AM Solinst, soft dark grey silt	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.73	5.91	NM	NM
MW-3A	686737.38	649228.43	11.93	11.32	11/4/09	2" pvc	0.020	5-15	11/11/09	5.92	-	16.60	-	15.1	Black silt on end of probe. No odor. No sheen.	5.93	-	16.32	-	8.3	11:15 AM, Slope, soft, grey silt, some sheen	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.40	5.39	NM	NM
MW-4A	686652.45	649388.50	12.94	12.25	11/4/09	2" pvc	0.020	2.5-12.5	11/10/09	6.85	-	13.40	-	248	Clean probe. No odor. No sheen.	6.67	-	13.16	-	355	11:10 AM, Solinst, grey silt, soft.	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.40	5.58	NM	NM
MW-5A	686580.87	649164.73	14.71	14.14	11/4/09	2" pvc	0.020	5-15	11/10/09	8.49	-	15.90	-	14.2	Clean probe. No odor. No sheen.	8.31	-	13.93	-	14.0	10:50 AM, Solinst	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.65	5.83	NM	NM
MW-6A	686630.11	648870.28	13.19	12.85	10/22/09	1" prepack	0.010	5-15	11/10/09	7.20	-	15.20	-	0	Clean probe. No odor. No sheen.	6.79	-	14.97	-	0.0	10:25 Slope	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.65	6.06	NM	NM
MW-7A	686607.80	649318.58	12.82	12.57	11/3/09	2" pvc	0.020	5-15	11/11/09	7.25	-	15.90	-	0.1	3" black sediment on probe, slight hydrocarbon-like odor. No sheen.	6.98	-	15.38	-	0.0	10:10 AM, Solinst, soft grey silt,	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		5.32	5.59	NM	NM
MW-8A	TBD	TBD	TBD	TBD	9/25/11	2" pvc	0.020	5-15	11/8/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
PDI-1S	686754.160	649177.709	11.63	11.33	8/15/2012	4" pvc	0.020	7-17	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.65	4.68	0.00	53.70	tar blebs on tip of probe	6.75	4.58	0.00	53.55	none		NA	NA	4.68	4.58
PDI-3S	686718.224	649239.760	12.15	11.75	8/23/2012	4" pvc	0.020	6-21	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.64	6.11	0.00	40.30	none	8.34	3.41	0.00	42.50	none		NA	NA	6.11	3.41
PDI-4	686665.812	649257.549	12.92	12.57	8/21/2012	4" pvc	0.020	5-20	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.36	5.21	0.00	23.10	none	5.32	5.32	5.32	5.32	5.32		NA	NA	5.21	5.32
Intermediate Zone Wells																																			
MW-1B	686440.93	648936.17	12.79	12.22	11/25/09	1" pvc	0.010	30-40	11/30/09	9.60	ND	40.10	ND	1	Clean probe. No odor. No sheen.	9.38	ND	39.87	ND	0.7	10:32, Slope	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		2.62	2.84	NM	NM
MW-2B	686716.34	649128.41	12.41	11.99	10/15/09	2" pvc	0.020	30-40	11/11/09	10.80	ND	40.90	ND	0	Clean probe. No odor. No sheen.	10.68	ND	38.98	ND	75.3	10:45 AM, Solinst, soft with sheen	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		1.19	1.31	NM	NM
MW-3B	686735.74	649224.21	12.12	11.25	11/21/09	2" pvc	0.020	30-40	11/11/09	10.30	33.10	36.85	3.75	440	Use weighted line to get DTB. Bottom ~4' covered in DNAPL, black. Strong Naphthalene-like odor.	10.21	34.90	36.98	4.10 - from weighted string	230	11:25 AM, Solinst, 4.5 ft of tape is coated with product. 4.1 ft of weighted string is coated.	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		0.95	1.04	NM	NM
MW-4B	686645.76	649385.14	13.23	12.47	11/6/09	2" pvc	0.010	30-40	11/10/09	12.10	12.01	42.30	0.09	21.4	Brown LNAPL, fuel-like odor, moderate, detected product. Pulled up tape and observed on end of probe.	11.81	11.82	39.16	0.01	86.4	11:19 AM, Solinst	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		0.45	0.74	NM	NM
MW-5B	686576.51	649166.19	14.69	14.19	9/29/09	2" pvc	0.010	25.5-35.5	11/11/09	13.55	ND	36.30	ND	34.1	Bottom tip of probe has brown silt. No odor. No sheen.	13.32	ND	36.10	ND	33.4	10:52 AM, Solinst, grey soft bottom	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		0.64	0.87	NM	NM
MW-6B	686624.95	648871.86	13.22	12.50	11/25/09	1" pvc	0.010	30-40	11/30/09	11.85	ND	40.00	ND	0	Clean probe. No odor. No sheen.	11.67	ND	39.87	ND	2.8	10:28 AM, Slope	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		0.65	0.83	NM	NM
MW-7B	686604.63	649316.47	12.70	11.99	10/26/09	2" pvc	0.020	30-40	11/10/09	11.49	ND	41	ND	4.2	Clean probe. No odor. No sheen.	11.27	ND	39.23	ND	20.5	10:45 AM, Solinst, soft bottom	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		0.50	0.72	NM	NM
MW-8B	TBD	TBD	TBD	TBD	9/25/11	2" pvc	0.020	30-40	11/8/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-11B	686593.492	649555.667	11.14	TBD	7/24/12	2" pvc	0.020	33-43	9/6/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-12B	686726.579	649337.012	10.92	TBD	7/26/12	2" pvc	0.020	28-38	9/7/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-14B	686524.59	649174.92	14.53	13.94	9/21/11	2" pvc	0.020	33-43	11/9/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-15B	686624.01	649150.74	12.89	12.13	9/23/11	2" pvc	0.020	35-45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
PDI-1I	686754.160	649177.709	11.63	11.33	8/15/2012	4" pvc	0.020	27-47	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.65	4.68	0.00	53.70	tar blebs on tip of probe	6.75	4.58	0.00	53.55	none		NA	NA	4.68	4.58
PDI-2	686768.908	649221.972	11.45	11.25	8/26/2012	4" pvc	0.020	28-43	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.42	1.83	0	NM	none	9.49	1.76	0.00	46.55	spotty tar bottom 2' of tape and probe		NA	NA	1.83	1.76
PDI-3I	686718.224	649239.760	12.15	11.75	8/23/2012	4" pvc	0.020	26-41	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.64	6.11	0.00	40.30	none	8.34	3.41	0.00	42.50	none		NA	NA	6.11	3.41
PDI-5	686657.179	649290.026	12.65	12.05	8/29/2012	4" pvc	0.020	26-41	9/4/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	1.49	0.00	NM	none	10.65	1.40	0.00	45.40	sediment on probe tip		NA	NA	1.49	1.40
PDI-6	686550.782	649263.529	13.30	12.8	8/25/2012	4" pvc	0.020	28-43	9/4/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.96	0.84	0.00	NM	tar blebs on tip of probe	11.70	1.10	0.00	47.90	spotty tar bottom 1' of probe		NA	NA	0.84	1.10
PDI-8	686524.048 and 686519.695*	649183.448 and 649173.745*	14.56	TBD	8/31/2012	4" pvc	0.020	32-47	9/5/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.00	NM	12.00	NM	12' of tar coated tape and probe	NM	NM	NM	NM	tractor trailer on top of well		NA	NA	NM	NM
Deep Zone Wells																																			
MW-1C	686446.74	648934.48	12.86	12.47	11/24/09	1" pvc	0.010	70-80	11/30/09	9.85	ND	76.40	ND	4.8	Clean probe. Very faint Napthalene-like odor.	9.60	ND	76.27	ND	0.5	10:34 AM Slope, Soft	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		2.62	2.87	NM	NM
MW-3C	686733.94	649227.82	12.06	11.70	11/2/09	2" pvc	0.010	67-77	11/10/09	9.98	ND	77.30	ND	7	Clean probe. No odor. No sheen.	9.58	ND	75.62	ND	12.3	11:16, Slope, soft	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		1.72	2.12	NM	NM
MW-4C	686648.60	649387.32	12.94	12.03	10/13/09	2" pvc	0.010	75-85	11/10/09	10.40	ND	81.70	ND	5.9	Bottom soft. No odor. No sheen.	9.95	ND	81.03	ND	4.0	11:14 AM, Solinst, very soft.	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		1.63	2.08	NM	NM
Onsite pumping well - off	686677.28	649043.94	13.34	12.81	5/30/03	6" pvc	0.020	63-78	5/30/03	10.52	ND	77.8	ND	NM	Pump off condition. Bottom 7' of tape and probe observed discontinuous DNAPL staining. Moderate-Strong Naphthalene-like odor.	9.81	72.6	77.43	4.80	22.6	9:45 AM, Solinst, 5 feet of tape coated with tar, soft bottom	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		2.29	3.00	NM	NM
Onsite pumping well - on	686677.28	649043.94	13.34	12.81	5/30/03	6" pvc	0.020	63-78	5/30/03	14.2	ND	77.8	ND	NM	Pump on condition water level. Recovery when pump cycle off almost immediate.	NA	NA	NA	NA	NA	Pump shut down on Friday, Jan 8, 2010	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		-1.39	NA	NM	NM
MW-8C	TBD	TBD	TBD	TBD	9/25/11	2" pvc	0.020	70-80	11/9/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-9C	686362.77	648895.22	12.20	11.65	9/27/11	2" pvc	0.010	70-80	11/9/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-10C	686568.92	648824.35	13.05	12.69	10/25/11	2" pvc	0.010	70-80	11/9/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-11C	686593.492	649555.667	11.14	TBD	7/24/12	2" pvc	0.020	90-100	9/6/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM
MW-12C	686726.579	649337.012	10.92	TBD	7/26/12	2" pvc	0.020	76-86	9/7/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NA	NA	NM	NM

Notes:

DTW = Depth to water from the top of casing/pvc
DTP = Depth to product from the top of casing/pvc
DTB = Depth to bottom from the top of casing/pvc
PPM = Parts per million
TBI = To be installed
TBD =To be determined
EOD = Will be included at the end of the day that it was developed
bgs = Below Ground Surface
Some PDI wells are screened across multiple zones, groundwater elevation may represent a combination of zones.
TBD - To be determined. The location was not accessable to be surveyed. This data needs to be collected.
NA - not applicable. The well location wasn't present during round of gauging
PVC - polyvinyl chloride pipe
(") - inches
AM - daytime morning hours
(*) - PDI-8 was inaccesible/being advanced during the survey. Two points of rebar were surveyed on either side, adjacent to, the boring location
ND - none detected.
NM - not measured
pre-pack - well construction uses the Geoprobe Pre-Pack well materials

1-inch PVC wells do not have 2-foot sumps. All 2-inch PVC wells have 2-foot sumps.
Top of casing elevations and groundwater elevations in feet above North American Vertical Datum of 1988 (NAVD-88).
Groundwater elvations for MW-4B have been corrected for LNAPL depression using a specific gravity of 0.87.
On Jan 12, 2010, some wells were measured with either a Slope water level meter or a Solinst Oil/Water interface probe as indicated by the notes.
By measuring MW-3C by both meters, AECOM determined that readings differed by 0.01 feet (9.58 with the Solinst and 9.57 with the Slope). Therefore, 0.01 ft have been added to depth to water measurements measured with the Slope meter.
Total well depths have been corrected for the bottom of probe lengths (0.3 for the Solinst and 0.12 for the Slope).

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/14/09
Weather: Cloudy, Calm/40°

Well ID: MW-1A
Sample ID: MW-1A-121409
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 4
Inner Casing Diameter (inch): 1"
Inner Casing Material: PVC
Purge/Sample Method: Low flow
Pump Intake Setting* (feet):
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 0.4
After Cap Removal: 0.2

Depth to Product* (feet): —
Initial Depth to Water* (feet): 7.54
Product Thickness (feet): —
Depth to Top of Screen* (feet):
Total Depth* (feet): 14.70
Water Column (feet): 7.16
Casing Volume ~~(gal)~~ Liters: 3.64
DTW After Pump Installed: —

PURGING/SAMPLING INFORMATION

Time	L/M Rate ~~(gpm)~~	L ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1300	0.5	0	7.79	2.95	17.07	6.3	30	-122	—	DEPTH to water not
1305	~~2.5~~	2.5	8.10	2.91	17.25	6.17	20	-168	—	TAKEN due to size
1310	0.5	5.0	7.78	2.87	17.31	5.92	28	-141	—	of well casing.

Start Purge Date/Time: 12/14/09 - 1300
End Purge Date/Time: 12/14/09 - 1310
Total Volume Purged ~~(gal)~~: 5L
Depth to Water After Purge* (feet): 12.12

Pre-Sample Depth to Water* (feet): 7.54
Start Sample Date/Time: 1320 12/14/09
End Sample Date/Time: 1500 12/14/09
Sampler Names: PAT SWAIN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
Well ran dry after 15 minutes / 5.0L purged. Samples taken after well recharged

- Depth of Water Cannot be taken while sampling equipment is in well due to the lack of adequate space inside well casing

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-1A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	DED Tubing	VOA's/Amber	3/2	HCl /None	1320
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	Nitric Acid	1320
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1320
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs/Pest/Herb/PCBs	"	Amber	5	None	1320
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/14/09
Weather: Cloudy, cdm, 40°

Well ID: MW-1B
Sample ID: MW1B121409
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 8in
Inner Casing Diameter (inch): 1.0
Inner Casing Material: PVC
Purge/Sample Method: Low-flow
Pump Intake Setting* (feet): 34 feet
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 5.3
After Cap Removal: 0.6

Depth to Product* (feet): -
Initial Depth to Water* (feet): 9.41
Product Thickness (feet): -
Depth to Top of Screen* (feet): 29.85
Total Depth* (feet): 39.85
Water Column (feet): 30.44
Casing Volume (gal): 20.28 Liters
DTW After Pump Installed: N/A*

PURGING/SAMPLING INFORMATION

Time	~~gpm~~ L/m Rate	~~Gallons~~ Liters Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft) *	Comments
1040	0.2	0	7.37	2.46	14.72	7.37	186	13	-	Gray / No odor
1045	0.2	1	7.44	2.29	15.17	6.88	95.4	4	-	"
1050	0.2	2	7.45	2.15	15.88	0.80	89.0	0	-	"
1055	0.2	3	7.46	2.09	16.03	0.72	27.0	-1	-	"
1100	0.2	4	7.47	1.94	15.95	0.63	0.08	-6	-	Gray / No odor
1105	0.2	5	7.47	1.90	15.88	0.62	13.3	-4	-	"
1110	0.2	6	7.47	1.94	15.31	0.65	11.4	-5	-	"
1115	0.2	7	7.48	1.92	15.41	0.67	10.62	-5	-	"
1120	0.2	8	7.48	1.90	15.35	0.64	10.41	-4	-	Gray / No odor
1125	0.2	9	7.48	1.90	15.40	0.64	10.40	-5	-	"

Start Purge Date/Time: 1040 / 12/14/09
End Purge Date/Time: 1125 / 12/14/09
Total Volume Purged (gal): 9 Liters
Depth to Water After Purge* (feet): 9.41

Pre-Sample Depth to Water* (feet): 9.41
Start Sample Date/Time: 1130 / 12/14/09
End Sample Date/Time: 1230 / 12/14/09
Sampler Names: MW1B121409

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
* DTW can not be taken during sampling due to lin well diameter.
Well has great recharge.
Long sampling time due to battery on pump dying

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Sampling Sequence: MW-1B

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Ded Tubing	VOAs / Amber	3/2	HCl / None	1130
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	Nitric Acid	1130
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1130
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs/Pest/Herb/PCBs	"	Amber	5	None	1130
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/14/09
Weather: Cloudy, calm, 40°

Well ID: MW-1C
Sample ID: MW-1C-121409
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 1.0"
Inner Casing Material: PVC
Purge/Sample Method: low flow
Pump Intake Setting* (feet): 70'
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 2.3
After Cap Removal: 0.4

Depth to Product* (feet): —
Initial Depth to Water* (feet): 9.60
Product Thickness (feet): —
Depth to Top of Screen* (feet): 66.15
Total Depth* (feet): 76.15
Water Column (feet): 67.15
Casing Volume ~~(gal)~~ Liters: 34.18
DTW After Pump Installed:

PURGING/SAMPLING INFORMATION

Time	L/M Rate ~~(gpm)~~	Liters ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1035	0.5	0	6.92	1.33	15.35	3.03	964	-132	—	Unable to get Depth to wat
1040	0.5	2.5	7.53	1.64	15.89	3.26	250	-146	—	Due to well casing size
1045	0.5	5	7.39	1.63	15.78	2.87	33	-107	—	limitation
1050	0.5	7.5	7.36	1.63	15.80	2.75	17	-101	—	
1055	0.5	10	7.29	1.62	15.85	2.22	12	-90	—	
1100	0.5	12.5	7.23	1.62	15.90	2.10	8.2	-84	—	
1105	0.5	15.0	7.21	1.61	15.82	2.01	6.6	-80	—	
1110	0.5	17.5	7.18	1.61	15.82	1.94	6.9	-77	—	
1115	0.5	20.0	7.17	1.61	15.87	1.88	6.0	-77	—	
1120	0.5	22.5	7.16	1.61	15.88	1.81	5.1	-76	—	
1125	0.5	25.0	7.15	1.61	15.82	1.76	4.8	-74	—	
1130	0.5	27.5	7.16	1.61	16.10	1.67	5.0	-76	—	

Start Purge Date/Time: 12/14 1035
End Purge Date/Time: 12/14/09 - 1130
Total Volume Purged ~~(gal)~~: 27.5 L
Depth to Water After Purge* (feet): 9.61

Pre-Sample Depth to Water* (feet): 9.60
Start Sample Date/Time: 1135
End Sample Date/Time:
Sampler Names: PJS WAN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-1C

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	DED. Tubing	VOAs/ Amber	3/2	HCl / None	1135
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	Nitric Acid	1135
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1135
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOC's/PEST/Herb/PCBs	"	Amber	5	None	1135
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity/Nat Grid
Date: 12/16/09
Weather: 30°F, Windy

Well ID: MW-2A
Sample ID: MW2A121609
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: Low flow
Pump Intake Setting* (feet): 10
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 3.1
After Cap Removal: 0.0

Depth to Product* (feet): —
Initial Depth to Water* (feet): 6.12
Product Thickness (feet): —
Depth to Top of Screen* (feet): 5
Total Depth* (feet): 15.89
Water Column (feet): 9.77
Casing Volume (gal): 1.59 gal / 6.03 Liters
DTW After Pump Installed: 6.12

PURGING/SAMPLING INFORMATION

Time	~~L/m~~ Rate ~~(gpm)~~	~~Liters~~ ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1320	0.25	0	7.32	3.48	11.11	2.33	401	-111	6.18	Light Gray
1324	0.25	1	7.23	3.45	12.82	1.33	239	-120	6.19	MGP and
1328	0.25	2	7.17	3.39	13.68	0.96	180	-128	6.19	Slight
1332	0.25	3	7.15	3.37	14.73	0.82	137	-134	6.19	Hydrogen Sulfide
1336	0.25	4	7.14	3.32	15.10	0.75	112	-141	6.19	odor.
1340	0.25	5	7.14	3.32	15.12	0.73	98	-145	6.19	
1344	0.25	6	7.15	3.31	15.13	0.72	97	-150	6.19	

Start Purge Date/Time: 1320
End Purge Date/Time: 1344
Total Volume Purged (gal): 6 Liters
Depth to Water After Purge* (feet): 6.19

Pre-Sample Depth to Water* (feet): 6.19
Start Sample Date/Time: 1350 12/16/09
End Sample Date/Time: 1405
Sampler Names: M. Merdinger

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-2A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	1350
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	1350
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1350
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs	"	Amber	2	—	1350
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National grid
Date: 12/16/09
Weather: Clear, windy, cold - 30°

Well ID: MW-2B
Sample ID: MW-2B-121609
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: low flow
Pump Intake Setting* (feet): 35
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 20.3
After Cap Removal: 0.0

Depth to Product* (feet): —
Initial Depth to Water* (feet): 10.73
Product Thickness (feet): —
Depth to Top of Screen* (feet): 30
Total Depth* (feet): 40.67
Water Column (feet): 29.94
Casing Volume (gal): 4.8 Gal or 18.47L
DTW After Pump Installed: 10.73

PURGING/SAMPLING INFORMATION

Time	~~L/M Rate~~ (gpm)	~~Liters Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1240	0.5	0	7.83	3.03	13.80	3.60	651	-319	10.99	NO sheen or odor
1245	0.5	2.5	7.77	2.81	13.62	3.21	493	-338	10.97	
1250	0.5	5.0	7.76	2.75	13.57	3.05	273	-344	10.99	
1255	0.5	7.5	7.75	2.68	13.63	1.92	169	-347	10.99	
1300	0.5	10.0	7.74	2.67	13.58	1.65	123	-348	10.99	
1305	0.5	12.5	7.74	2.65	13.71	1.66	82.6	-347	10.98	
1310	0.5	15.0	9.47	100+	6.38	34.77	71.8	-632	10.98	Drastic change - Nothing outside well had changed - Slight sheen
1315	0.5	17.5	9.48	100+	6.49	34.52	68.0	-638	10.98	2.0 PID Reading
1320	0.5	20.0	9.47	100+	6.57	34.33	72.4	-630	10.99	
1325	0.5	22.5	9.46	100+	6.70	34.09	44.1	-632	10.98	
1330	0.5	25.0	9.46	100+	6.50	34.60	28.5	-633	10.99	
1335	0.5	27.5	9.47	100+	6.74	33.98	34.6	-634	10.99	
1340	0.5	30.0	7.71	3.52	14.19	0.47	34.1	-351	10.99	

Start Purge Date/Time: 1240 12/16/09
End Purge Date/Time: 1340 12/16/09
Total Volume Purged (gal):
Depth to Water After Purge* (feet): 10.99

Pre-Sample Depth to Water* (feet): 10.98
Start Sample Date/Time: 1345 12/16/09
End Sample Date/Time: 1350 12/16/09
Sampler Names: PAT SWAIN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
LARGE fluctuation in readings - possible equipment issues due to cold?
-Slight sulfur odor while sampling.

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-2B

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Ded. Tubing	VOAs	3	HCl	1345
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	1345
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1345
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
~~PCB/SVOCs/Pest/HERB~~ MW	"				
SVOCs	"	Amber	2	—	1345
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / Not Grid
Date: 12/15/09
Weather: 40's, Overcast

Well ID: MW-3A
Sample ID: MW3A121509
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): —
Inner Casing Diameter (inch): 2 in
Inner Casing Material: PVC
Purge/Sample Method: Low Flow
Pump Intake Setting* (feet): 10 feet
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 19.10 ppm
After Cap Removal: 2.7 ppm

Depth to Product* (feet): —
Initial Depth to Water* (feet): 5.67
Product Thickness (feet): —
Depth to Top of Screen* (feet): 5
Total Depth* (feet): 15
Water Column (feet): 9.33
Casing Volume (gal): 1.13 gal / 5.75 Liters
DTW After Pump Installed: 5.67

PURGING/SAMPLING INFORMATION

Time	~~L/m~~ Rate ~~(gpm)~~	~~Liters~~ ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1106	0.25	0	7.84	2.15	13.32	1.76	41.2	-112	5.67	Dark Gray.
1110	0.25	1	7.83	2.11	14.26	0.85	19.4	-129	5.72	Tubing stained
1114	0.25	2	7.83	2.11	14.42	0.76	15.7	-133	5.75	in well.
1118	0.25	3	7.83	2.11	14.63	0.68	10.2	-138	5.75	MGP/Naphth
1122	0.25	4	7.84	2.10	14.68	0.63	11.2	-141	5.75	odor.
1126	0.25	5	7.83	2.10	14.66	0.60	10.0	-143	5.75	
1130	0.25	6	7.84	2.10	14.63	0.59	9.9	-143	5.75	

Start Purge Date/Time: 1106
End Purge Date/Time: 1130
Total Volume Purged (gal): 1.5 gallons
Depth to Water After Purge* (feet): 5.75

Pre-Sample Depth to Water* (feet): 5.75
Start Sample Date/Time: 1135 12/15/09
End Sample Date/Time: 1245 12/15/09
Sampler Names: M. Merdinger

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

Grab Sample for TCL VOCs taken 12/16/09 as MW3A121609 @ 0820

* MS/MSD Sample

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-3A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	~~VOA~~ Ambers	~~3~~ 9 6	—	1135
Base/neutrals					
TPH					
Total Metals		Plastic	~~3~~	HNO_3	1155
Dissolved Metals		~~P~~			
Cyanide		Plastic	~~3~~	NaOH	1135
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
PCB/Pest/Herb/SVOCs		Amber	15	—	1135
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity/National Grid
Date: 12/15/09
Weather: 40F, Overcast

Well ID: MW-3C
Sample ID: MW3C121509
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2in
Inner Casing Material: PVC
Purge/Sample Method: Low-Flow
Pump Intake Setting* (feet): 70ft
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 5.3
After Cap Removal: 0.5

Depth to Product* (feet): —
Initial Depth to Water* (feet): 9.18
Product Thickness (feet): —
Depth to Top of Screen* (feet): 67
Total Depth* (feet): 77
Water Column (feet): 67.82
Casing Volume (gal): 11.05 gal / 41.84 Liters
DTW After Pump Installed: 9.18

PURGING/SAMPLING INFORMATION

Time	Rate ~~(gpm)~~	~~Gallons~~ Liters Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0935	0.5	0	7.04	4.37	14.44	2.50	233	-384	9.25	Gray/Brown
0940	0.5	2.5	7.79	4.54	14.79	1.40	202	-256	9.25	Water
0945	0.5	5	7.79	4.39	14.74	1.29	169	-252	9.25	Slight Sheen
0949	0.25	6	7.80	3.52	14.84	1.09	69.4	-238	9.25	"
0952	0.25	7	7.81	3.37	14.78	0.98	59.9	-231	9.25	"
0956	0.25	8	7.81	3.32	14.79	0.93	47.2	-229	9.25	"
1000	0.25	9	7.82	3.27	14.79	0.89	46.1	-228	9.25	"
1004	0.25	10	7.82	3.25	14.78	0.84	45.2	-226	9.25	"

Start Purge Date/Time: 0935
End Purge Date/Time: 1004
Total Volume Purged (gal): 2 gallons
Depth to Water After Purge* (feet): 9.25

Pre-Sample Depth to Water* (feet): 9.18
Start Sample Date/Time: 1000 12/15/09
End Sample Date/Time: 1002 12/15/09
Sampler Names: MW3C121509
M. Merdinger

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
MGP/Nathalene odor. Very good recharge

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-3C

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs/Amber	3/2	HCl/None	1008
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	1008
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1008
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
PCB/Pest/Herb/SVOCs	"	Amber	5	None	1008
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity
Date: 12/16/09
Weather: 30's, Windy

Well ID: MW-4A
Sample ID: MW4A121609
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): —
Inner Casing Diameter (inch): 2in
Inner Casing Material: PVC
Purge/Sample Method: Low Flow
Pump Intake Setting* (feet): 10 feet
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 504 ppm
After Cap Removal: 715 ppm

Depth to Product* (feet): —
Initial Depth to Water* (feet): 6.78
Product Thickness (feet): —
Depth to Top of Screen* (feet): 5
Total Depth* (feet): 15
Water Column (feet): 8.22
Casing Volume (gal): 1.33 gal / 5.07 liters
DTW After Pump Installed: 6.78

PURGING/SAMPLING INFORMATION

Time	~~L/m~~ Rate (gpm)	~~Liters~~ ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0950	0.25	0	8.84	5.76	9.35	3.33	418	-172	7.25	Light Grey Mud odor
0954	0.25	1	8.81	5.96	10.25	2.29	332	-231	7.25	Mud odor
0958	0.25	3	8.87	5.82	11.08	1.58	298	-286	7.35	
1002	0.25	4	8.90	5.77	11.02	1.48	224	-287	7.35	"
1006	0.25	5	8.97	5.62	10.34	1.36	180	-275	7.35	"
1010	0.25	6	9.00	5.43	10.42	1.27	149	-249	7.35	"
1014	End Purge	due to GW gaging QA/QC								"
1042	Resume Purge									" Bleps
1042	0.25	7	9.10	4.56	8.05	0.99	460	-178	7.19	" on
1046	0.25	8	9.17	4.32	9.71	0.95	77.8	-200	7.24	" H_2O
1050	0.25	9	9.13	4.31	10.85	0.89	95.6	-215	7.35	" Surface
1054	0.25	10	9.14	4.32	10.91	0.88	950	-217	7.35	" in
1058	0.25	11	9.13	4.35	11.01	0.87	106	-226	7.35	"
1102	0.25	12	9.17	4.28	10.16	0.84	69.4	-232	7.35	" Purge
1106	0.25	13	9.17	4.29	9.95	0.83	67.6	-230	7.35	" Bucket
1110	0.25	14	9.17	4.28	9.98	0.83	63.4	-231	7.35	"

Start Purge Date/Time: 0950
End Purge Date/Time: 1110
Total Volume Purged (gal): 3.5 gallons
Depth to Water After Purge* (feet): 7.35

Pre-Sample Depth to Water* (feet): 7.35
Start Sample Date/Time: 1115 12/16/09
End Sample Date/Time: 1200
Sampler Names: Megan Mertinger

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

MW4A121609D taken as Duplicate Sample 1120 for TCL VOCs ~~PCBs~~, Pest/Herb only

Grab sample MW3A121609 taken @ 0820 for TCL VOC MS/MSD

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-4A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated	40 VOAs	6	HCl	1115/1120 Dup
Base/neutrals	Tubing				
TPH					
Total Metals	"	Plastic	1	HNO_3	1115
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1115
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
PCB/SVOCs/Pest/Herb	"	Amber	9	—	1115/1120 Dup
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / Not Grid
Date: 12/15/09
Weather: 40's, Overcast

Well ID: MW4B
Sample ID: MW4B121509
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): —
Inner Casing Diameter (inch): 2" D
Inner Casing Material: PVC
Purge/Sample Method: Low Flow
Pump Intake Setting* (feet): 41 ft
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 22.1 ppm
After Cap Removal: 0.0 ppm

Depth to Product* (feet): 11.55
Initial Depth to Water* (feet): 11.60
Product Thickness (feet): 0.05
Depth to Top of Screen* (feet): 40
Total Depth* (feet): 42
Water Column (feet): 30.40
Casing Volume (gal): 4.95 gallons
DTW After Pump Installed: 11.60

PURGING/SAMPLING INFORMATION

Time	L/m Rate ~~(gpm)~~	Liters ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1415	0.25	0	13.32	9.27	14.07	2.85	27.8	-215	12.90	Slight Gray,
1419	0.25	1	13.33	9.07	14.10	2.45	28.7	-217	12.85	Sheen
1423	0.25	2	13.32	8.63	14.02	2.09	37.0	-220	12.85	on Water
1427	0.25	3	12.92	6.42	14.05	1.14	59.0	-252	12.85	
1431	0.25	4	12.47	6.14	14.06	0.94	49.8	-245	12.85	
1435	0.25	5	12.20	6.03	14.04	0.83	43.8	-246	12.85	
1439	0.25	6	12.14	6.00	14.01	0.77	37.4	-248	12.85	
1443	0.25	7	11.89	6.00	13.99	0.74	29.9	-248	12.85	
1447	0.25	8	11.52	6.08	13.96	0.69	23.0	-245	12.85	
1451	0.25	9	11.10	6.27	13.94	1.30	32.0	-246	12.85	
1455	0.25	10	11.10	6.26	13.95	1.00	22.3	-245	12.85	
1459	0.25	11	11.10	6.26	13.94	1.01	22.4	-246	12.85	
1503	0.25	12	11.10	6.27	13.92	1.02	22.3	-245	12.85	

Start Purge Date/Time: 1415 12/15/09
End Purge Date/Time: 1503 12/15/09
Total Volume Purged (gal): 3.09 gallons
Depth to Water After Purge* (feet): 12.85

Pre-Sample Depth to Water* (feet): 12.85
Start Sample Date/Time: 1505
End Sample Date/Time: 1515
Sampler Names: M. Merdinger

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-4B

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated	VOAs	3	HCl	1505
Base/neutrals					
TPH	Tubing				
Total Metals		Plastic	1	HNO_3	1505
Dissolved Metals					
Cyanide		Plastic	1	NaOH	1505
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs		Amber	2	—	1505
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:		Well ID:	MW-4C
Project Name:	Equity / National Grid	Sample ID:	MW-4C-121509
Date:	12/15/09	Permit Number:	
Weather:	Cloudy / windy / 40°	Well Condition:	NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):	6"	Depth to Product* (feet):	—
Inner Casing Diameter (inch):	2"	Initial Depth to Water* (feet):	10.12
Inner Casing Material:	PVC	Product Thickness (feet):	—
Purge/Sample Method:	low flow	Depth to Top of Screen* (feet):	67
Pump Intake Setting* (feet):	71 ft	Total Depth* (feet):	75.34
PID/FID Reading of Well Headspace (ppm)		Water Column (feet):	65.22
Before Cap Removal:	5.9	Casing Volume (gal):	10.63 g or 40.23 litres
After Cap Removal:	0.1	DTW After Pump Installed:	10.55

PURGING/SAMPLING INFORMATION

Time	litres/m Rate ~~(gpm)~~	Liter ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1405	0.5 L	0	8.07	1.26	14.47	1.70	54.6	-203	10.55	
1410	0.5	2.5	7.90	1.49	14.51	1.06	52.9	-218	10.49	
1415	0.5	5	7.85	1.45	14.54	0.89	41.6	-229	10.52	
1420	0.5	7.5	7.82	1.37	14.54	0.80	38.1	-235	10.63	
1425	0.5	10.0	7.79	1.34	14.55	0.73	31.0	-239	10.61	
1430	0.5	12.5	7.78	1.31	14.41	0.68	27.0	-241	10.63	
1435	0.5	15.0	7.77	1.30	14.36	0.67	12.9	-239	10.59	
1440	0.5	17.5	7.76	1.30	14.36	0.67	12.1	-238	10.58	
1445	0.5	20.0	7.76	1.30	14.38	0.64	12.6	-235	10.57	

Start Purge Date/Time:	12/15/09 1405	Pre-Sample Depth to Water* (feet):	10.57
End Purge Date/Time:	1445	Start Sample Date/Time:	1450
Total Volume Purged (gal):		End Sample Date/Time:	1455
Depth to Water After Purge* (feet):	10.57	Sampler Names:	PAT SWAIN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-4C

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	1450
Base/neutrals					
TPH					
Total Metals		Plastic	1	~~HNO3~~	1450
Dissolved Metals					
Cyanide		Plastic	1	NaOH	1450
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs		Amber	2	—	1450
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

LOW-STRESS GROUND WATER SAMPLING FORM

Number:
t Name: Equity / National Grid
12/16/09
ather: Clear, windy, cold - 30°

Well ID: MW-5A
Sample ID: MW-5A-121609
Permit Number:
Well Condition: NEW

RE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: Low flow
Pump Intake Setting* (feet): ~~15~~ 10
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 18.2 ~~35.7~~
After Cap Removal: 2.1 ~~8.7~~

Depth to Product* (feet): —
Initial Depth to Water* (feet): 8.40
Product Thickness (feet): —
Depth to Top of Screen* (feet): ~~5~~ 5
Total Depth* (feet): ~~25~~ 15.61
Water Column (feet): 7.21
Casing Volume (gal): 1.18 gallons or 4.48 Liters
DTW After Pump Installed: 8.40

PURGING/SAMPLING INFORMATION

Time	~~gpm~~ L/M Rate	~~Gallons~~ Liters Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0945	0.5	0	7.97	2.75	10.31	1.89	484	-213	8.46	Clear, No Sheen, no odor
0950	0.5	2.5	7.95	2.76	10.90	1.08	156	-216	8.46	
0955	0.5	5.0	7.94	2.75	11.31	0.97	122	-218	8.46	
1000	0.5	7.5	7.93	2.74	11.80	0.70	69.2	-220	8.55	
1005	0.5	10.0	7.94	2.75	11.68	0.59	49.8	-223	8.55	
1010	0.5	12.5	7.95	2.76	12.20	0.52	39.4	-222	8.59	
1015	0.5	15.0	7.95	2.76	12.29	0.49	35.4	-223	8.59	
1020	0.5	17.5	7.95	2.76	12.33	0.47	145	-220	8.59	3x well volume

Start Purge Date/Time: 12/16/09 0945
End Purge Date/Time: 12/16/09 1020
Total Volume Purged (gal): 4.62 or 17.5 Liters
Depth to Water After Purge* (feet): 8.59

Pre-Sample Depth to Water* (feet): 8.59
Start Sample Date/Time: 1025 12/16/09
End Sample Date/Time: 1030 12/16/09
Sampler Names: PAT SWAN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
Good recovery, clear H_2O, no odor

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-5A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	HCl	3	1025
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	1025
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1025
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs	"	Amber	2	—	1025
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/16/09
Weather: Clear, Windy, Cold 30°

Well ID: MW-5~~A~~B
Sample ID: MW-5~~A~~B-121609
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 2 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: Low Flow
Pump Intake Setting* (feet): ~~20~~ 30
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 59.9 ~~PPB~~
After Cap Removal: 8.6

Depth to Product* (feet): —
Initial Depth to Water* (feet): 13.48
Product Thickness (feet):
Depth to Top of Screen* (feet): ~~5~~ 25.5
Total Depth* (feet): ~~PVC~~ 34.53
Water Column (feet): 21.05
Casing Volume (gal): 3.43 Gallons or 12.98L
DTW After Pump Installed: 13.48

PURGING/SAMPLING INFORMATION

Time	~~gpm~~ 1.0 1.5 Rate	~~Gallons~~ 1.615 Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0815	0.5	0	6.14	7.31	10.53	1.71	~~PPB~~ 357	-144	16.15	Oil like substance - Very Dark w sheen
0820	0.5	2.5	7.58	6.34	12.36	1.23	315	-143	16.50	
0825	0.5	5.0	7.59	6.30	12.13	1.05	135	-145	17.10	
0830	0.5	7.5	7.58	6.29	11.66	0.97	129	-146	17.63	
0835	0.5	10.0	7.58	6.38	11.56	0.80	~~PPB~~	-156	18.12	
0840	0.5	12.5	7.56	6.43	11.30	0.75	67.9	-182	18.91	
0845	0.5	15.0	7.55	6.52	11.28	0.70	141	-230	19.13	
0850	0.5	17.5	7.54	6.60	10.88	0.64	103	-263	19.21	
0855	0.5	20.0	7.53	6.64	10.79	0.62	67.4	-281	19.23	
0900	0.5	22.5	7.52	6.76	10.50	1.05	56.1	-312	19.19	
0905	0.5	25.0	7.51	6.89	10.79	0.67	60.7	-314	19.20	
0910	0.5	27.5	7.51	6.92	11.15	0.61	77.0	-328	19.18	
0915	0.5	30.0	7.50	6.89	11.34	0.57	89.1	-338	19.21	

Start Purge Date/Time: 12/16/09 0815
End Purge Date/Time: 12/16/09 0915
Total Volume Purged (gal): 7.93 gallons or 30L
Depth to Water After Purge* (feet):

Pre-Sample Depth to Water* (feet):
Start Sample Date/Time: 12/16/09 0920
End Sample Date/Time: 12/16/09 0925
Sampler Names: PAT SW MW

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
Initial purge of 5 liters was Very oil like and had a sheen. Cleared up after. Slight sulfur odor at times

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-5B

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	0920
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	0920
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	0920
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs	"	Amber	2	—	0920
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/15/09
Weather: Cloudy, Windy, 40°

Well ID: MW-6A
Sample ID: MW-6A-121509
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 1"
Inner Casing Material: PVC
Purge/Sample Method: Low flow
Pump Intake Setting* (feet): 10'
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 0.0
After Cap Removal: 0.0

Depth to Product* (feet): —
Initial Depth to Water* (feet): 6.90
Product Thickness (feet): —
Depth to Top of Screen* (feet): 5'
Total Depth* (feet): 14.94
Water Column (feet): 8.04
Casing Volume (gal): 0.339 or 1.25 Liters
DTW After Pump Installed:

PURGING/SAMPLING INFORMATION

Time	~~Rate (gpm)~~ Liters	~~Gallons~~ Liters Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0830	0.5L	0	[redacted]	2.10	15.88	8.97	694	-125	—	See Below *
0835	0.5L	2.5	7.00	2.09	15.74	8.06	253	-130	—	
0840	0.5	5.0	7.00	2.07	15.15	7.63	200	-129	—	
0845	0.5	[redacted]	6.99	2.14	14.95	5.24	230	-115	—	
0850	0.5	10.0	6.98	2.11	15.10	3.54	396	-122	—	
0855	0.5	12.5	6.97	2.12	16.17	3.30	310	-127	—	

Start Purge Date/Time: 12/15/09 - 0830
End Purge Date/Time: 12/15/09 - 0855
Total Volume Purged (gal): 3.3 gallons or 12.5L
Depth to Water After Purge* (feet): 7.10

Pre-Sample Depth to Water* (feet): 6.90
Start Sample Date/Time: 12/15/09 - 0900
End Sample Date/Time: 12/15/09 - 0905
Sampler Names: PAT SWAIN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
* Depth to water not taken while sampling equipment was in the well due to space limitations on a 1" well.

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-6A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	0900
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	0900
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	0900
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs	"	Amber	2	—	0900
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity/Not Grid
Date: 12/14/09
Weather: 40's, Sunny

Well ID: MW-6B
Sample ID: MW6B121409
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): —
Inner Casing Diameter (inch): 1in
Inner Casing Material: PVC
Purge/Sample Method: Low-Flow
Pump Intake Setting* (feet): 34 feet
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 12.3
After Cap Removal: 0.7

Depth to Product* (feet): —
Initial Depth to Water* (feet): 11.67
Product Thickness (feet): —
Depth to Top of Screen* (feet): 29.70
Total Depth* (feet): 39.70
Water Column (feet): 28.03
Casing Volume ~~(gal)~~: Liters 14.27
DTW After Pump Installed: N/A

PURGING/SAMPLING INFORMATION

Time	L/Min Rate ~~(gpm)~~	Liters ~~Gallons~~ Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1340	0.25	0	9.31	2.51	14.48	2.12	260	-52	—	Dark Gray /
1344	0.25	1	9.36	2.42	15.03	1.38	204	-106	—	No odor
1348	0.25	2	9.41	2.37	15.17	1.15	161	-127	—	"
1352	0.25	3	9.46	2.35	15.25	1.00	129	-141	—	Dark Gray /
1356	0.25	4	9.49	2.36	15.25	0.93	117	-146	—	No odor
1400	0.25	5	9.45	2.30	15.20	1.08	117	-143	—	"
1404	0.25	6	9.38	2.37	15.07	0.80	148	-141	—	Dark Gray
1408	0.25	7	9.28	2.51	14.87	0.71	800	-157	—	Dark Gray / Brown
1412	0.25	8	9.22	2.58	14.43	0.80	616	-126	—	"
1416	0.25	9	9.21	2.58	14.39	0.77	529	-122	—	Dark Gray /
1420	0.25	10	9.19	2.61	14.37	0.75	430	-114	—	No odor.
1424	0.25	11	9.14	2.69	14.28	0.73	217	-90	—	"
1428	0.25	12	9.12	2.76	14.32	0.72	295	-74	—	Dark Gray /
1432	0.25	13	9.12	2.77	14.32	0.74	312	-69	—	No Odor
1436	0.25	14	9.12	2.78	14.32	0.73	310	-67	—	"

Start Purge Date/Time: 1340
End Purge Date/Time: 1436
Total Volume Purged (gal): 14 Liters
Depth to Water After Purge* (feet): 29.10

Pre-Sample Depth to Water* (feet): 29.10
Start Sample Date/Time: 1430 / 12/14/09
End Sample Date/Time: 1505 / 12/14/09
Sampler Names: MW6B121409

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
DTW can not be taken during sampling due to 1 in well diameter Well started running dry and picking up silt at 1408

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM MW-6B

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tube	VOAs	3	HCl	1438
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	Nitric Acid	1438
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1438
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs	"	Amber	2	None	1438
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/15/09
Weather: Cloudy / windy / 40°

Well ID: MW-7A
Sample ID: MW-7A-121509
Permit Number:
Well Condition: New

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: low flow
Pump Intake Setting* (feet): 10 feet
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 0.1
After Cap Removal: 0.0

Depth to Product* (feet): —
Initial Depth to Water* (feet): 7.02
Product Thickness (feet): —
Depth to Top of Screen* (feet): 5
Total Depth* (feet): 16.17
Water Column (feet): 9.15
Casing Volume (gal): 1.49 or 5.64 L
DTW After Pump Installed: 7.10

PURGING/SAMPLING INFORMATION

Time	~~gpm~~ L/M Rate	~~Gallons~~ Liters Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1200	0.5	0	7.70	2.70	12.14	1.22	800+	-248	7.10	Sheen on water — Hydrocarbon smell
1205	0.5	2.5	7.67	2.66	12.61	0.80	618	-276	7.11	- SEE COMMENTS
1255	0.5	5.0	7.50	2.68	14.39	0.59	78.9	-349	7.19	
1300	0.5	7.5	7.54	2.63	14.73	0.56	29.9	-354	7.08	
1305	0.5	10.0	7.54	2.62	14.66	0.55	18.9	-357	7.09	
1310	0.5	12.5	7.55	2.60	14.61	0.54	19.3	-358	7.10	
1315	0.5	15.0	7.55	2.61	14.63	0.54	18.6	-357	7.10	

Start Purge Date/Time: 1200 12/15/09
End Purge Date/Time: 1315 12/15/09
Total Volume Purged (gal): 3.96 gallons or 15L
Depth to Water After Purge* (feet): 7.10

Pre-Sample Depth to Water* (feet): 7.02
Start Sample Date/Time: 1320
End Sample Date/Time: 1325
Sampler Names: PAT SWIFT

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
- Pump bolted @ 1207. Held prime, brought over truck for direct connect on pump. Resumed @ 1250.
- Slight Hydrogen sulfide odor

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-7A

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	1320
Base/neutrals					
TPH					
Total Metals		Plastic	1	HNO_3	1320
Dissolved Metals					
Cyanide		Plastic	1	NaOH	1320
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs		Amber	2	—	1320
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/15/09
Weather: Cloudy, windy, 40°

Well ID: 7B
Sample ID: MW-7B-121509
Permit Number:
Well Condition: NEW

PRE-PURGE INFORMATION

Protective Casing Diameter (inch): 6"
Inner Casing Diameter (inch): 2"
Inner Casing Material: PVC
Purge/Sample Method: Low flow
Pump Intake Setting* (feet): 41'
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal: 5.2
After Cap Removal: 0.2

Depth to Product* (feet): —
Initial Depth to Water* (feet): 11.16
Product Thickness (feet): —
Depth to Top of Screen* (feet): 40
Total Depth* (feet): 40.76
Water Column (feet): 29.6
Casing Volume (gal): 48.25 or 182.63 Liters
DTW After Pump Installed: 11.16

PURGING/SAMPLING INFORMATION

Time	Rate (~~gpm~~ L/min)	~~Gallons~~ L Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1015	0.5	0	7.18	3.18	13.47	3.78	155	-139	11.55	
1020	0.5	2.5	7.19	3.15	13.49	3.04	144	-146	11.60	
1025	0.5	5	7.20	3.10	13.45	1.69	104	-198	11.56	
1030	0.5	7.5	7.19	3.15	13.41	1.13	67.3	-276	11.61	
1035	0.5	10	7.18	3.23	13.43	1.06	82.6	-300	11.60	
1040	0.5	12.5	7.16	3.36	13.44	0.96	18.6	-417	11.57	
1045	0.5	15.0	7.14	3.44	13.46	0.93	12.1	-469	11.58	
1050	0.5	17.5	7.14	3.45	13.43	0.93	12.9	-482	11.51	
1055	0.5	20.0	7.15	3.49	13.45	0.91	10.8	-490	11.55	
1100	0.5	22.5	7.14	3.51	13.44	0.89	12.1	-489	11.57	

Start Purge Date/Time: 12/15/09 10:15
End Purge Date/Time: 12/15/09 11:00
Total Volume Purged (gal): 5.94 or 22.5 L
Depth to Water After Purge* (feet): 11.57

Pre-Sample Depth to Water* (feet): 11.57
Start Sample Date/Time: 1105
End Sample Date/Time: 1110
Sampler Names: PAT SWOLN

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings):
Slight sheen in first 10L purged.

AECOM

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

MW-7B

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	3	VOAs	HCl	1105
Base/neutrals					
TPH					
Total Metals		1	Plastic	HNO_3	1105
Dissolved Metals					
Cyanide		1	Plastic	NaOH	1105
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOCs		2	Amber	—	1105
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM

Project Number:
Project Name: Equity / National Grid
Date: 12/16/09
Weather: Clear, windy, cold - 30°

Well ID: on site well
Sample ID: PW-1-121609
Permit Number:
Well Condition: existing residential style well

PRE-PURGE INFORMATION

Protective Casing Diameter (inch):
Inner Casing Diameter (inch):
Inner Casing Material: N/A
Purge/Sample Method:
Pump Intake Setting* (feet):
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:

Depth to Product* (feet): N/A
Initial Depth to Water* (feet): N/A
Product Thickness (feet): N/A
Depth to Top of Screen* (feet): N/A
Total Depth* (feet): N/A
Water Column (feet): N/A
Casing Volume (gal): N/A
DTW After Pump Installed: N/A

PURGING/SAMPLING INFORMATION

Time	Rate (gpm)	Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments

Figure 5-1

LOW-STRESS GROUND WATER SAMPLING FORM PW-1

Sampling Sequence:

Analysis	Method	Container	Number of Bottles	Preservative	Comments
Volatile Organics	Dedicated Tubing	VOAs	3	HCl	1135
Base/neutrals					
TPH					
Total Metals	"	Plastic	1	HNO_3	1135
Dissolved Metals					
Cyanide	"	Plastic	1	NaOH	1135
Sulfate and Chloride					
Nitrate and Ammonia					
Preserved Inorganics					
Non-Preserved Inorg					
SVOs	"	Amber	2	—	1135
Bacteria					

Complete those analyses that apply.

Stabilization Ranges
Dissolved Oxygen: +/- 10%
Turbidity: +/- 10%
Specific Conductance: +/- 3%
Temperature: +/-3 %
pH: +/- 0.1 unit
Redox Potential: +/- 10mv

* = Measured from top of inner casing
DTW - Depth to Water
Thermo Environmental Instruments Model 580s OVM w/ 10.2 ev bulb
Water Levels Measured with an Electronic Water Level Meter
Field parameter meter calibration results are recorded in the field book.

February 2013

Well/Piezo ID: MW-9C

Ground Water Sample Collection Record

Client: NAT. GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s, SNOW Collector(s) S. WRIGHT

Date: 2-6-13
Time: Start 0515 am/pm
Finish 0630 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 81.1
b. Water Table Depth 9.31
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 71.79 (a-b)
f. Calculated Well Volume (see back) 11.72

WELL PURGING DATA

a. Purge Method LOW FLOW W/GED-PUMP

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
GED. PUMP		04759
HORIBA		21132
LAMOTTE	2020	19964

d. Field Testing Equipment Calibration Documentation Found In Field Notebook # _____ Page #_____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	ACID Other	GED
0530	–	11.67	7.45	1.61	24.9	50.0	CLEAR	NONE	9.31	-43
0535	2	13.44	6.64	1.60	31.7	21.73	CLEAR	NONE	9.61	-56
0540	3	13.48	6.62	1.59	28.8	20.02	CLEAR	NONE	9.77	-50
0545	4	13.56	6.61	1.57	23.3	18.31	CLEAR	NONE	9.88	-45
0550	5	13.45	6.61	1.55	13.4	17.92	CLEAR	NONE	9.96	-38
0555	6	13.39	6.61	1.54	9.95	17.70	CLEAR	NONE	9.97	-34
0600	7	13.36	6.61	1.53	9.85	17.65	CLEAR	NONE	9.98	-32

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☑
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING, VOLUME NOT REQUIRED

SAMPLE COLLECTION: Method: LOW FLOW

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-9C	VOA	3	HCl	VOCs 8260	0615
	1L AMBER	2	ICE	SVOCs 8270	0615
	500ML PLAS	1	HNO_3	TOTAL RCRA 8	0615
	500ML PLAS	1	NaOH	TOTAL CYANIDE	0615

Comments

Signature

Date 2-6-13

Well/Piezo ID: MW-10C

Ground Water Sample Collection Record

Client: NAT. GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s, SNOW Collector(s) S. WRIGHT

Date: 2-5-13
Time: Start 0730 am/pm
Finish 0950 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 81.0
b. Water Table Depth 10.54
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 70.46 (a-b)
f. Calculated Well Volume (see back) 11.50

WELL PURGING DATA

a. Purge Method LOW FLOW W/GEO-PUMP

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
GEO-PUMP		04759
HORIBA		21132
LAMOTTE		14964

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	~~Acid~~ Other	ORP
0745	–	7.43	7.14	2.16	51.2	50.0	CLEAR	NONE	10.54	-96
0750	2	11.17	7.13	4.15	119	34.45	CLOUDY	NONE	10.56	-71
0755	3	10.71	7.14	4.00	131	27.51	CLOUDY	NONE	10.58	-35
0800	4	10.84	7.17	3.83	116	24.57	CLOUDY	NONE	10.58	-21
0805	5	10.66	7.17	3.80	118	22.41	CLOUDY	NONE	10.61	-17
0810	6	10.49	7.17	3.74	115	21.69	CLOUDY	NONE	10.62	-10
0815	7	10.54	7.15	3.44	122	21.87	CLOUDY	NONE	10.62	23

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☑
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING, VOLUME NOT REQUIRED

SAMPLE COLLECTION: Method: LOW FLOW

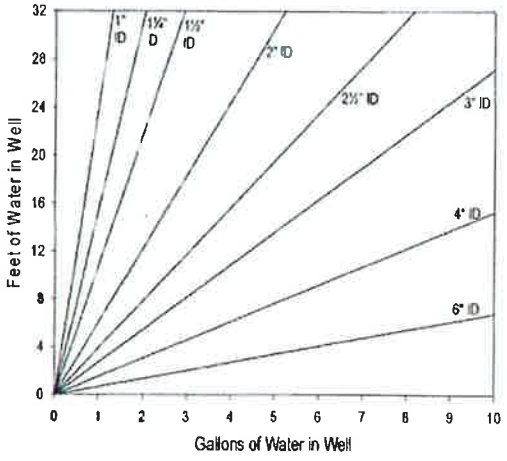
Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-10C	VOA	3	HCl	VOCs 8260	0945
↓	1L AMBER	2	ICE	SVOCs 8270	0945
	500ML PLAS	1	HNO_3	TOTAL RCRA 8	0945
↓	500 ML PLAS	1	NaOH	TOTAL CYANIDE	0945

Comments + MS, MSD

Signature _____ Date 2-5-13

MW-10C

Purge Volume Calculation



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0820	8	10.62	7.15	3.34	21.85	25	120	200	10.63	CLOUDY / NONE
0830	10	10.62	7.11	3.24	18.60	31	79.3	200	10.63	CLOUDY / NONE
0840	12	10.60	7.09	3.01	20.44	35	46.0	200	10.63	SLIGHTLY CLOUDY / NONE
0850	14	10.50	7.09	2.95	19.54	38	34.1	200	10.63	" "
0900	16	10.40	7.08	2.87	18.99	41	21.3	200	10.62	CLEAR / NONE
0910	18	10.38	7.08	2.84	18.76	43	10.7	200	10.63	CLEAR / NONE
0920	20	10.36	7.08	2.81	18.65	44	10.0	200	10.63	CLEAR / NONE

Well/Piezo ID: MW-11C

Ground Water Sample Collection Record

Client: NAT. GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s, SUN
Collector(s): S. WRIGHT
Date: 2-4-13
Time: Start 1400 am/pm
Finish 1500 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 101.7
b. Water Table Depth 8.99
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 92.71 (a-b)
f. Calculated Well Volume (see back) 15.13

WELL PURGING DATA

a. Purge Method LOW FLOW W/ GEO. PUMP

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

	Make	Model	Serial Number
	GEO PUMP		04759
	HORIBA		21132
	LAMOTTE	2020	19464

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page #_____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	ΔGW Other	ORP
1405	-	12.16	8.87	0.951	16.1	16.87	CLEAR	NONE	9.00	-165
1410	2	13.89	8.56	0.716	15.0	8.38	CLEAR	NONE	9.12	-196
1415	3	14.00	8.72	0.713	13.9	7.27	CLEAR	NONE	9.17	-204
1420	4	14.05	8.81	0.711	11.1	6.79	CLEAR	NONE	9.20	-220
1425	5	14.08	8.86	0.720	10.2	6.37	CLEAR	NONE	9.22	-236
1430	6	14.11	8.90	0.724	9.95	6.29	CLEAR	NONE	9.24	-241
1435	7	14.10	8.90	0.729	9.85	6.22	CLEAR	NONE	9.25	-245

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☑
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING. VOLUME NOT REQUIRED

SAMPLE COLLECTION: Method: LOW FLOW

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-11C	VOA	3	HCl	VOCs 8260	1450
	1L AMBER	2	ICE	SVOCs 8270	1450
	500ML PLAS	1	HNO_3	TOTAL RCRA 8	1450
	500ML PLAS	1	NaOH	TOTAL CYANIDE	1450

Comments

Signature [signature]

Date 2-4-13

Well/Piezo ID: MW-11B

Ground Water Sample Collection Record

Client: NAT GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s, SUN
Collector(s): S. WRIGHT
Date: 2-4-13
Time: Start 1300 am/pm
Finish 1355 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 45.4
b. Water Table Depth 11.12
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 34.28 (a-b)
f. Calculated Well Volume (see back) 5.60

WELL PURGING DATA

a. Purge Method LOW FLOW w/ GEO PUMP

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
GEO-PUMP		04759
HORIBA		21132
LAMOTTE	2020	17964

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	ALK(N) Other	ORP
1305	–	13.57	9.00	10.9	7.16	20.30	CLEAR	NONE	11.25	-223
1310	2	15.35	9.71	11.1	5.82	4.56	CLEAR	NONE	12.96	-270
1315	3	14.81	9.77	11.5	4.74	4.35	CLEAR	NONE	13.63	-293
1320	4	14.55	8.41	11.6	2.98	4.31	CLEAR	NONE	13.30	-225
1325	5	14.44	7.96	11.8	2.39	4.24	CLEAR	NONE	13.56	-216
1330	6	14.51	7.85	11.7	2.36	4.15	CLEAR	NONE	13.63	-214
1335	7	14.49	7.83	11.6	2.34	4.12	CLEAR	NONE	13.68	-211

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☑
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING, VOLUME NOT REQUIRED.

SAMPLE COLLECTION: Method: LOW FLOW

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-11B	VOA	3	HCl	VOCs 8260	1350
	1L AMBER	2	ICE	SVOCs 8270	1350
	500ml PLAS	1	HNO_3	TOTAL RCRA 6	1350
↓	500ML PLAS	1	NaOH	TOTAL CYANIDE	1350

Comments

Signature _____ Date 2-4-13

Well/Piezo ID: MW-12B

Ground Water Sample Collection Record

Client: NAT. GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s. SUN
Collector(s): S. LURIGHT
Date: 2-4-13
Time: Start 10:30 (am)/pm
Finish 11:45 (am)/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☑ Piezometer ☐

a. Total Well Length 40.3
b. Water Table Depth 10.29
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 30.01 (a-b)
f. Calculated Well Volume (see back) 4.90

WELL PURGING DATA

a. Purge Method LOW-FLOW

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
GEOPUMP		04759
HORIBA		21132
LAMOTTE	2020	19764

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page # _____

Time	Volume Removed (LITER)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	~~Other~~ ΔG-D	ORP
1035	-	10.86	7.49	7.86	3.20	50.0	CLEAR	NONE	10.61	-118
1040	1	12.02	7.77	7.99	2.65	58.0	CLEAR	NONE	12.47	-175
1045	2	13.41	7.84	8.04	2.95	58.0	CLEAR	NONE	13.50	-220
1050	3	13.52	7.91	8.29	3.15	24.72	CLEAR	NONE	14.15	-252
1055	4	13.42	7.92	8.11	3.00	17.22	CLEAR	NONE	15.12	-262
1100	5	13.38	7.92	8.03	3.00	15.41	CLEAR	NONE	16.01	-270
1105	6	13.36	7.92	8.01	2.95	15.22	CLEAR	NONE	16.22	-273

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☑	☑
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING, VOLUME NOT REQUIRED.

SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-12B	VOA	3	HCl	VOCs 8260	1140
	AMBER LITER	2	ICE	SVOCs 8270	1140
	500 ML PLAS.	1	HNO_3	TOTAL RCRA 8	1140
	500 ML PLAS	1	NaOH	TOTAL CYANIDE	1140

Comments: DUPE COLLECTED → LABELED DUPE 2-4.

Signature _____ Date 2-4-13

Well/Piezo ID: MW-12C

Ground Water Sample Collection Record

Client: NAT. GRID
Project No: 60137362
Site Location: EQUITY
Weather Conds: 20s SUN Collector(s) S. WRIGHT

Date: 2-4-13
Time: Start 1150 am/pm
Finish 1245 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☑ Piezometer ☐

a. Total Well Length 87.8
b. Water Table Depth 8.80
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 79.00 (a-b)
f. Calculated Well Volume (see back) 12.90

WELL PURGING DATA

a. Purge Method LOW FLOW W/GEO PUMP

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes)
- Maximum Allowable Turbidity 10 NTUs
- Stabilization of parameters 5 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
GEOPUMP		04759
HORIBA		21132
LAMOTTE	2020	19964

d. Field Testing Equipment Calibration Documentation Found in Field Notebook # _____ Page #_____

Time	Volume Removed (gal)	T° (C/F)	pH	Spec. Cond (umhos)	Turbidity (NTUs)	DO	Color	Odor	ΔGW Other	ORP
1150	—	12.57	9.76	0.547	5.12	20.14	CLEAR	NONE	8.82	-186
1155	2	13.57	10.11	0.394	1.93	8.67	CLEAR	NONE	8.91	-239
1200	3	13.47	10.15	0.393	1.90	7.55	CLEAR	NONE	8.92	-241
1205	4	13.43	10.17	0.393	1.83	6.92	CLEAR	NONE	8.64	-246
1210	5	13.31	10.16	0.392	1.69	6.33	CLEAR	NONE	8.95	-245
1215	6	13.30	10.14	0.391	1.65	6.06	CLEAR	NONE	8.95	-240
1220	7	13.29	10.12	0.392	1.60	5.97	CLEAR	NONE	8.96	-240

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☐	☐	☑
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
LOW FLOW SAMPLING, VOLUME NOT REQUIRED.

SAMPLE COLLECTION: Method: LOW FLOW

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
MW-12C	VOA	3	HCl	VOCs 8260	1240
↓	AMBER LITER	2	ICE	SVOCs 8270	1240
	500 ML PLAS	1	HNO_3	TOTAL RCRA 8	1240
↓	500 ML PLAS	1	NaOH	TOTAL CYANIDE	1240

Comments

Signature

Date 2-4-13

July – August 2013

Subtract 7 ft sump subtract

AECOM

Sampling Order:

Well ID: 16a

Low Flow Ground Water Sample Collection Record

Client: Equity National Gold Date: 8/1/13 Time: Start 11:30 am/pm

Project No: Finish 13:08 am/pm

Site Location: Brooklyn NY

Weather Conds: Cloudy, rain, hot Collector(s): R. MacPhee

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 18.87 c. Length of Water Column _____ (a-b) Screen Depth: 14

b. Water Table Depth 9.29 d. Casing Diameter/Material _____

2. WELL PURGE DATA

a. Purge Method: _____ Well Volume: _____ Purge Volume: _____

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

_____

_____

_____

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ water level (feet)	Color/Odor
1204	19.47	5345	1.13	7.96	-79.1	6.42		266	9.35	
1219	20.64	1467	0.36	7.10	-68.5	3.79		266	9.35	
1228	20.75	1283	0.27	6.96	-66.6	3.45		266	9.35	
1232	20.70	1272	0.22	6.91	-68.2	3.27		266	9.35	
1241	20.70	1148	0.19	6.88	-71.2	3.26		266	9.35	
1244	20.73	1134	0.19	6.87	-72.4	2.98		266	9.35	
1248	20.72	1118	0.19	6.87	-72.6	2.99		266	9.35	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: _____

Sample ID Container Type No. of Containers Preservation Analysis Req. Time

Sample time: 1250

Comments _____

Signature _____ RACHEL MACPHEE Date 080113

AECOM

Sampling Order:

Well ID: 1Cab

Low Flow Ground Water Sample Collection Record

Client: Equity National Grid Date: 08/01/13 Time: Start 1318 am/pm
Project No: Finish 1420 am/pm
Site Location: Brooklyn, NY
Weather Conds: rain, humid, ~70 Collector(s): R. Macshee

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 48.05 c. Length of Water Column _____ (a-b) Screen Depth: 41

b. Water Table Depth 10.00 d. Casing Diameter/Material PVC 2-inch

2. WELL PURGE DATA

a. Purge Method: peristaltic Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		
HF scientific		

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ Water level (feet)	Color/Odor
1323	20.99	10227	0.45	6.65	-103.1	67.72		190	10.15	
1331	18.19	11920	0.53	6.78	-110.0	53.36		190	10.17	
1338	18.12	12794	0.29	6.84	-111.8	37.97		190	10.17	
1348	18.04	13524	0.21	6.91	-116.3	63.76		190	10.17	
1358	17.96	14106	0.25	6.93	-115.3	44.03		190	10.17	
1402	18.00	14368	0.25	6.93	-112.5	32.86		190	10.17	
1410	18.01	14738	0.22	6.94	-113.0	30.06		190	10.17	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
	Sample time: 1413				

Comments

Signature [signature] RACHEL MACSHEE Date 080113

AECOM

Sampling Order:

Well ID: 16C

Low Flow Ground Water Sample Collection Record

Client: Equity National Gold Date: 08/01/13 Time: Start 1430 am/pm

Project No: Finish ____ am/pm

Site Location: Rain, Windy, ~60°F

Weather Conds: Collector(s): R. MacPhee

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 108.66 c. Length of Water Column ____ (a-b) Screen Depth: 101.00 ~~48.6~~

b. Water Table Depth 9.41 d. Casing Diameter/Material ____

2. WELL PURGE DATA

a. Purge Method: Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

9.25

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ water level (feet)	Color/Odor
14:43	18.13	1847	0.66	7.79	-82.9	7.93		222	~~10~~ 9.40	
14:54	17.88	18.47	0.28	7.53	-75.1	8.12		222	9.40	
15:00	17.75	18.12	0.28	7.49	-73.2	7.92		222	9.40	
15:05	17.61	1781	0.36	7.45	-84.3	10.55		222	9.40	
15:17	17.61	17.62	0.37	7.43	-80.5	7.77		222	9.40	
15:20	17.52	17.73	0.48	7.40	-91.7	6.78		222	9.40	
15:28	17.51	17.21	0.89	7.39	-69.5	5.89		222	9.40	
15:31	17.50	17.50	0.89	7.38	-62.7	5.62		222	9.40	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
Sample time: 1534					

Comments

Signature RACHEL MACPHEE Date 080113

AECOM

Sampling Order:

Well ID: 17a

Low Flow Ground Water Sample Collection Record

Client: Equity National Grid Date: 07/31/13 Time: Start 1243 am/pm
Project No: Finish ____ am/pm
Site Location: Brooklyn NY
Weather Conds: hot, sunny, clear Collector(s): R. MacPhee S. Millard

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 17.79 c. Length of Water Column ____ (a-b) Screen Depth: ____

b. Water Table Depth 7.17 d. Casing Diameter/Material ____

2. WELL PURGE DATA

a. Purge Method: ____ Well Volume: ____ Purge Volume: ____

b. Acceptance Criteria defined (see workplan)

- Temperature	±3%	- D.O.	±10% or ± 0.5 mg/l		
- pH	± 0.1 unit	- ORP	± 10mV		
- Sp. Cond.	±3%	- Drawdown	< 0.3'	-Turbidity	±10% for values >1 NTU

c. Field Testing Equipment used:

Make	Model	Serial Number
Micro TPW	2000	201202165
YSI	556 MPS	09510159[illegible]

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ Water level (feet)	Color/Odor
1246 ~~20.25~~	20.25	2089	0.31	7.54	-110.7	28.40		222	7.18	
1256	19.42	1940	0.13	7.07	-107.4	47.18		222	7.18	
1302	19.37	1899	0.10	6.99	-102.5	148.60		222	7.18	
1311	19.39	1846	0.09	6.96	-104.0	100.06		222	7.18	
1320	19.22	1782	0.08	6.94	-105.8	91.00		222	7.18	
1325	19.[illegible]	1772	0.08	6.93	-92.6	49.33		222	7.18	
1328	19.50	1752	0.08	6.96	-93.6	50.09		222	7.18	
1332	19.54	1733	0.08	6.96	-90.7	33.44		222	7.18	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: ____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-17a	Sample time: 1345				

Comments: * well marked as 18a *

Signature: [signature] (Rachel MacPhee) Date: 07/31/13

AECOM

Sampling Order:

Well ID: 176

Low Flow Ground Water Sample Collection Record

Client: Equity National Grid Date: 07/31/13 Time: Start 1050 am/pm
Project No: Finish 1238 am/pm
Site Location: Brooklyn NY
Weather Conds: hot, clear, sunny Collector(s): R. MacRae J. Millard

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 48.15 c. Length of Water Column _____ (a-b) Screen Depth: _____

b. Water Table Depth 10.48 d. Casing Diameter/Material _____

2. WELL PURGE DATA

a. Purge Method: _____ Well Volume: _____ Purge Volume: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	±3%	- D.O.	±10% or ± 0.5 mg/l		
- pH	± 0.1 unit	- ORP	± 10mV		
- Sp. Cond.	±3%	- Drawdown	< 0.3'	-Turbidity	±10% for values >1 NTU

c. Field Testing Equipment used:

Make	Model	Serial Number
Micro TDW	2000	2012.02165
YSI	556 MPS	09J101593

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ water level (feet)	Color/Odor
1057	19.91	6863	0.97	7.36	-86.1	75.17		140	11.3	
1105	20.74	8262	0.30	7.33	-93.2	80.91		140	11.11	
1116	20.76	9652	0.20	7.41	-109.2	61.79		140	11.13	
1129	19.78	11295	0.16	7.35	-111.0	63.74		140	11.13	
1134	20.06	11776	0.14	7.32	-120	57.73		140	11.13	
1142	19.90	12623	0.14	7.32	-114.5	52.07		140	11.13	
1151	19.60	13093	0.14	7.33	-119.1	46.13		140	11.13	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-176	Sample time: 11:58				
MW-17d	Sample time: 1200				

Comments: well labeled as 18c

Signature: (Rachel MacRae) Date: 07/31/13

AECOM

Sampling Order:

Well ID: ~~176~~ 17C

Low Flow Ground Water Sample Collection Record

Client: Equity National Gold Date: 07/31/13 Time: Start _____ am/pm
Project No: _____ Finish _____ am/pm
Site Location: _____
Weather Conds: _____ Collector(s): _____

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 111.46 c. Length of Water Column _____ (a-b) Screen Depth: 100-110

b. Water Table Depth 9.44 d. Casing Diameter/Material 2-inch PVC

2. WELL PURGE DATA

a. Purge Method: _____ Well Volume: _____ Purge Volume: _____

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

_____
_____
_____

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor	
11:02	19.73	6742	0.99	7.59	-132.4	577.6	0.4	400		Grey tan	9.6
11:09	20.66	6689	0.42	7.35	-138.6	232	0.5	201			9.62
11:19	21.53	7059	0.34	7.25	-136.7	115.4	0.7	180			
11:27	21.38	7143	0.33	7.24	-138.9	102.3	1.0	180			
11:32	20.88	6993	0.32	7.22	-139.9	79.76	1.2	180			
11:41	20.29	6952	0.33	7.17	-136.7	38.42	1.5	180			
11:46	20.53	6967	0.28	7.13	-129.5	28.72	1.7	180			
11:49	20.60	7028	0.27	7.12	-124.4	20.16	1.9	180			
11:53	20.46	7031	0.31	7.13	-128.9	26.07	2.1	140			

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW17C-7313					12:00
MW17C-7313 MS/MSD					

* well marked as 180 *

Comments _____

Signature _____ RACHEL MCOMBE Date 073113

AECOM

Sampling Order:

Well ID: MW-18a

Low Flow Ground Water Sample Collection Record

Client: National Grid Date: 07/31/13 Time: Start 1450 am/pm
Project No: Finish ____ am/pm
Site Location: Brooklyn, NY
Weather Conds: Hot, sunny, clear Collector(s): R. MacPhee J. Millard

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 19.61 c. Length of Water Column ____ (a-b) Screen Depth: ____

b. Water Table Depth 5.88 d. Casing Diameter/Material ____

2. WELL PURGE DATA

a. Purge Method: Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature	±3%	- D.O.	±10% or ± 0.5 mg/l		
- pH	± 0.1 unit	- ORP	± 10mV		
- Sp. Cond.	±3%	- Drawdown	< 0.3'	-Turbidity	±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ Water Level (feet)	Color/Odor
15:11	21.91	2835	0.14	12.28	-212.0	15.92	~~5.92~~	~~7.25~~	7.25	
15:25	22.21	2989	0.10	12.40	-207.8	20.29		121	~~6.70~~	
15:37	22.13	2932	0.11	12.39	-204.7	20.33		121	~~7.89~~	
15:46	21.80	2975	0.11	12.41	-253.0	20.52		100	7.89	
15:56	21.10	2957	0.10	12.42	-211.1	10.83		100	7.89	
15:58	22.31	2985	0.09	12.43	-208.5	10.84		100	7.89	
15:58	22.35	3035	0.09	12.44	-210.6	10.48		100	7.89	
16:01	22.28	3064	0.10	12.45	-216.6	8.35		100	7.89	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-18a	Sample Time	16/16			

Comments

Signature (Rachel MacPhee) Date 07/31/13

AECOM

Sampling Order:

Well ID: MW-18b

Low Flow Ground Water Sample Collection Record

Client: National Grid Date: 07/31/13 Time: Start 1418 am/pm
Project No: Finish ____ am/pm
Site Location: Brooklyn NY
Weather Conds: hot, sunny, clear Collector(s): R. MacRae, J. Millard

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 43.55 c. Length of Water Column ____ (a-b) Screen Depth: ____

b. Water Table Depth 10.80 d. Casing Diameter/Material ____

2. WELL PURGE DATA

a. Purge Method: Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature	±3%	- D.O.	±10% or ± 0.5 mg/l		
- pH	± 0.1 unit	- ORP	± 10mV		
- Sp. Cond.	±3%	- Drawdown	< 0.3'	-Turbidity	±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ Water level (feet)	Color/Odor
1418	19.94	5895	0.07	7.72	-229.9	109.9		190	11.30	
1431	19.24	6207	0.02	7.67	-292.6	56.20		190	11.35	
1439	19.15	6638	0.08	7.64	-307.2	37.59		190	11.38	
1444	19.31	6923	0.09	7.60	-311.3	26.96		190	11.38	
1451	19.35	7353	0.07	7.51	-313.9	23.70		190	11.38	
1459	19.32	7911	0.09	7.42	-319.1	16.80		190	11.38	
1503	19.19	8158	0.09	7.37	-324.4	11.07		190	11.38	
1514	18.92	8672	0.11	7.27	-332.4	10.05		190	11.38	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-18b	Sample	time			

Comments

Signature RACHEL MACRAE Date 073113

AECOM

Sampling Order:

Well ID: MW-18C

Low Flow Ground Water Sample Collection Record

Client: National Grid Date: 7-26-13 Time: Start _____ am/pm
Project No: _____ Finish _____ am/pm
Site Location: Equity
Weather Conds: Partly Cloudy Collector(s): _____

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 106.88 Length of Water Column _____ (a-b) Screen Depth: 94-104

b. Water Table Depth 9.95 d. Casing Diameter/Material 2-inch PVC

2. WELL PURGE DATA

a. Purge Method: Peristaltic Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	~~Drawdown~~ (feet)	Color/Odor	
1337											10.05
1343	21.79	2577	2.64	8.13	-150.7	47.68	0.2	100	0.15		10.15
1346	21.00	2814	0.89	8.00	-154.6	52.77	0.3	100	0		
1357	20.72	2917	0.40	7.86	-157.9	54.97	0.6	100	0		
1401	20.33	2831	0.35	7.85	-163.2	47.22	0.7	100			
1408	20.42	2835	0.35	7.84	-160.3	44.93	0.8	100			
1412	20.26	2821	0.32	7.83	-161.5	37.10	0.9	100			
1427	19.95	2760	0.27	7.79	-156.5	26.31	1.3	100			
1430	20.39	2750	0.27	7.76	-151.1	24.70	1.6	100			

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

(continued on back)

If no or N/A - Explain below.

1433 20.97 2761 0.26 7.75 -148.6 22.99 1.6 100

3. SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-18C					1440

Comments _____

Signature _____ RACHEL MATHER Date 073113

AECOM

Sampling Order:

Well ID: MW-19A

Low Flow Ground Water Sample Collection Record

Client: ~~AECOM~~ National Grid Date: 7-31-13 Time: Start 8:20 am/pm
Project No: Finish ____ am/pm
Site Location: Equity
Weather Conds: Clear, Mid Collector(s): J. Mi'Ward R. MacPhee

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 25' c. Length of Water Column 21.42 (a-b) Screen Depth: 8-23

b. Water Table Depth 4.58 d. Casing Diameter/Material PVC 2-inch

2. WELL PURGE DATA

a. Purge Method: Peristaltic Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used: Make Model Serial Number

YSI
HF Scientific

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor	
813	17.94	1564	1.34	7.55	-81.7	12.1	0.2	200			4.57
816	18.74	1540	0.86	7.37	-81.9	10.37	0.3	200			4.63
821	1866	1518	0.36	7.28	-82.1	8.03	0.5	200			
826	1876	1497	0.29	7.20	-76.4	4.72	0.6	200			
827	1866	1481	0.23	7.18	-75.3	3.80	0.7	200			
832	1860	1464	0.23	7.14	-73.7	4.51	0.8	200			

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW-19A-073113	1 Liter Amber	2	NONE	SVOCs 8270	8:35
MW-19A-73113	40 ml VOA	2	HCL	VOCs 8260	8:35
MW-19A-73113	250 ml Plastic	1		T. CN	8:36

Comments

Signature John Mullen Date 73113

AECOM

Sampling Order:

Well ID: MW-19B

Low Flow Ground Water Sample Collection Record

Client: National Grid
Date: 7-31-13
Time: Start 7:02 am/pm
Finish _____ am/pm
Project No: _____
Site Location: Equity
Weather Conds: Clear, Mild
Collector(s): J. Millard R. MacPhee

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 38.3 c. Length of Water Column 30 (a-b) Screen Depth: 28-36

b. Water Table Depth 8.23 d. Casing Diameter/Material 2-inch PVC

2. WELL PURGE DATA

a. Purge Method: _____ Well Volume: _____ Purge Volume: _____

b. Acceptance Criteria defined (see workplan)

- Temperature	±3%	- D.O.	±10% or ± 0.5 mg/l		
- pH	± 0.1 unit	- ORP	± 10mV		
- Sp. Cond.	±3%	- Drawdown	< 0.3'	-Turbidity	±10% for values >1 NTU

c. Field Testing Equipment used:

Make	Model	Serial Number
YSI		
HF scientific		

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor	DTW
7:07	17.81	2614	0.91	8.41	-123.9	121.4	0.4	200			8.49
7:09	17.83	2610	0.47	8.24	-125.7	149.9	0.5	200	none	Naph odor	8.43
7:15	17.63	2644	0.32	8.23	-127.3	107.3	0.6	200			
7:25	17.53	2796	0.19	8.17	-126.3	97.8	0.9	200			
7:31	17.52	2882	0.17	8.11	-129.7	87.3	1.2	200		" " spots of sheen	
7:38	17.67	2980	0.12	8.02	-129.8	69.4	1.5	200			
7:41	17.64	3019	0.11	8.02	-138.4	56.24	1.7	200			
7:45	17.61	3037	0.11	7.97	-140.4	56.6	1.8	200			
7:48	17.63	3043	0.11	7.93	-144.9	54.43	2.1	200			

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☑	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.
all other parameters stable, Turbidity not dropping

3. SAMPLE COLLECTION: Method: Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW19B-073113	Amber	2	None	SVOCs 8270	750
MW19B-073113	40 ml	2	HCL	VOCs 8260	750
MW19B-07313	250	1	Sodium Hydroxide	T.CN	

Comments _____

Signature [signature] Date 7-31-13

AECOM

Sampling Order:

Well ID: MW19C

Low Flow Ground Water Sample Collection Record

Client: Equity National Grid Date: 07/31/13 Time: Start 0649 am/pm
Project No: Finish 0813 am/pm
Site Location: Brooklyn, NY
Weather Conds: Sunny, Clear, Hot Collector(s): R. Macphee J. Millard

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 90.61 c. Length of Water Column 83.44 (a-b) Screen Depth: 78.88

b. Water Table Depth 7.17 d. Casing Diameter/Material

2. WELL PURGE DATA

a. Purge Method: Well Volume: Purge Volume:

b. Acceptance Criteria defined (see workplan)

- Temperature ±3% - D.O. ±10% or ± 0.5 mg/l
- pH ± 0.1 unit - ORP ± 10mV
- Sp. Cond. ±3% - Drawdown < 0.3' -Turbidity ±10% for values >1 NTU

c. Field Testing Equipment used:

Make	Model	Serial Number
Micro TPW	20000	201202165
YSI	556 MPS	09J101593

Time (24hr)	Temp. (°C)	Spec. Cond. (µS/cm)	DO (mg/l)	pH	ORP (mV)	Turbidity (NTU)	Volume Removed (Liters)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0655	17.23	1307	2.89	9.27	-135.2	569.00		250	7.38	
0704	16.97	1359	0.98	8.33	-176.2	448.5	448.5	250	7.40	
0713	16.93	1354	0.61	8.12	-167.1	210.8		250	7.45	
0723	17.08	~~1680~~ 1426	0.42	8.03	-163.4	107.1		174	7.45	
0729	17.03	1464	0.31	8.01	-183.4	84.66		174	7.45	
0734	17.01	1490	0.27	7.97	-192.5	80.67		174	7.50	
0740	17.16	1542	0.24	7.92	-194.3	78.95		174	7.50	
0745	17.21	1592	0.22	7.88	-193.4	66.47		174	7.50	
0750	17.33	1616	0.21	7.86	-190.3	68.05		174	7.50	

(continued on back)

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required turbidity been reached	☐	☐	☐
Have parameters stabilized	☐	☐	☐

If no or N/A - Explain below.

3. SAMPLE COLLECTION: Method:

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
MW19C(07313)	2 Amber 1 Plastic 2 VOA	5			

Comments

Signature (Rachel Macphee) Date 07/31/13

Equity MGP, National Grid, 7-31-13

5:45 - AECOM - J. Millard, R. MacPhee
- PPE: Level D
- Weather: Clear, mid 70s - 80s
- Goals: collect GW

5:50 - SB-24 / MW-10 water level 9.99 ft.

SB-23 / MW-09 water level 8.92 ft.

			Bottom of well	water level
0617	SB-39	MW-19C	~~90.61~~ ft	7.17 ~~ft~~
	SB-39	MW-19B	38.69 ft	8.23 ft
	SB-39	MW-19A	~~25.13~~	~~8.58~~

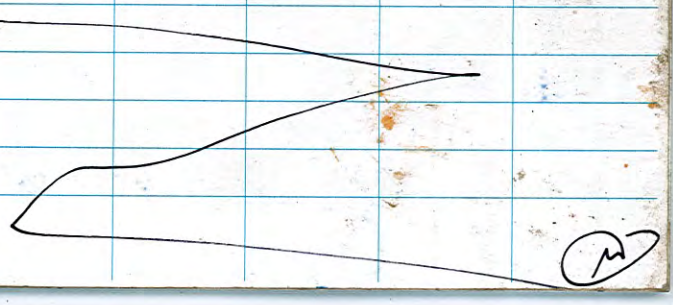
0649 Begin Purge on SB-39/MW-19C
0800 Sample time
0813 Sampling Complete at SB-39/MW-19C

		Bottom of well	water level
0940	MW-1B	39.70	9.52
	MW-1C		9.72
	MW-1A		7.34
	MW-06B	37.55	11.66
	MW-06A		6.79
	MW-12B	40.21	~~8.98~~
	MW-12C		8.42

10:30 Begin Sampling 17 series wells

		DTB	DTW	
MW17A	Miss labeled 18A	17.79	7.17	
MW17B		48.15	10.48	
MW17C		~~111.46~~	9.44	
MW-18B	Miss labeled 17B	43.55	10.80	
MW-18A		19.61	5.88	
MW-18C		106.88	9.95	
MW-16A		18.89	~~9.60~~	9.23
MW16B		48.10	10.09	
MW-16C		108.66	9.12	
MW-11B		45.39	9.79	
MW-11C			~~8.40~~	8.40

1700 offsite



P1

Equity, MGP, National Grid 08/01/13

0830 R. Macphee (AECOM) onsite

weather: partly cloudy, hot, humid

Goals: collect GW, drum count, collect NAPL

Drum count:
Main area: Total = 57 drums
NAPL (coal tar liquid) ~~||||~~ || (7)
WATER: ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ||| (24)
SOIL: ~~||||~~ ~~||||~~ ~~||||~~ ||| (18)
PLASTIC: || (2)
Unlabled: ~~||||~~ || (6)

emptys: ~~||||~~ (5)

Napl area: (29)

Total drums on site: ~~91~~ 85

Unlabled
Soil: ||| (3)
probably Napl. Maybe water? || (2)
water | (1)

P2

Turbidymeter calibrations complete

1000 NTU
10.0 NTU
0.02 NTU

YSI meter calibration complete for ~~two~~ one meters
1040E06:
Conductivity = 1000
D.O = 100.2%
Ph 7 = 7.01
Ph 4 = 4.02
Ph 10 = 10.03

Collected Napl sample from 4 drums. Two jars.

11:30 set up on MW-16 custer for GW sampling

1700 offsite

Appendix H

Slug Testing Data Analysis

Table ___

Monitoring Well Construction Details and Groundwater Elevation Summary

Former Equity MGP Site, Brooklyn, NY

Well ID	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Well Diameter (inches)	Screened Interval (ft bgs)	Total Depth (ft btoc)	Depth to Water (ft btoc)	DTP	Depth to bottom	Product Thickness	Groundwater Elevation (ft)	Comments
Shallow Wells											
MW-1A	12.92	12.63	1	5 to 15	14.9	7.78	-------	-------	-------	4.85	----------
-------	-------	-------	-------	--- -- ---	-------	7.21	—	14.62	—		10:10 Slight Hour
MW-2A	12.38	11.95	2	5 to 15	16.7	6.22	-------	-------	-------	5.73	----------
-------	-------	-------	-------	--- -- ---	-------	6.04		16.30			10:40 Solvent soft, clayey silty sand
MW-3A	11.93	11.32	2	5 to 15	16.6	5.92	-------	-------	-------	5.40	----------
-------	-------	-------	-------	--- -- ---	-------	5.92	—	16.20			11:15 Slight, soft, clayey silty, some sheen
MW-4A	12.94	12.25	2	2.5 to 12.5	13.4	6.85	-------	-------	-------	5.40	----------
-------	-------	-------	-------	--- -- ---	-------	6.67	—	13.13	—		11:00 Solvent, grey silt on top soft
MW-5A	14.71	14.14	2	5 to 15	15.9	8.49	-------	-------	-------	5.65	----------
-------	-------	-------	-------	--- -- ---	-------	8.31			13.90		10:50 Solvent
MW-6A	13.19	12.85	1	5 to 15	15.2	7.20	-------	-------	-------	5.65	----------
-------	-------	-------	-------	--- -- ---	-------	6.78	—	14.85	—		10:25 - Slight
MW-7A	12.82	12.57	2	5 to 15	15.9	7.25	-------	-------	-------	5.32	----------
-------	-------	-------	-------	--- -- ---	-------	6.98	—	15.75	—		10:10 Soft bottom - Grey silt on top
Intermediate Wells											
MW-1B	12.79	12.22	1	30 to 40	40.1	9.60	-------	-------	-------	2.62	----------
-------	-------	-------	-------	--- -- ---	-------	9.37	-	39.75	—		10:32 Slight
MW-2B	12.41	11.99	2	30 to 40	40.9	10.80	-------	-------	-------	1.19	----------
-------	-------	-------	-------	--- -- ---	-------	10.68	—	38.95	—		10:45 Solvent soft bottom Sheen on top
MW-3B	12.12	11.25	2	30 to 40	36.9	10.30	33.10	-------	3.75	0.95	----------
-------	-------	-------	-------	--- -- ---	-------	10.21	34.9	36.85	~4.1		11:25 Solvent ~4-5' on tape 4.1 of tar on string
MW-4B	13.23	12.47	2	30 to 40	42.3	12.10	12.01	-------	0.09	0.45	----------
-------	-------	-------	-------	--- -- ---	-------	11.80	11.82	39.23	0.02		11:09 Solvent
MW-5B	14.69	14.19	2	25.5 to 35.5	36.3	13.55	-------	-------	-------	0.64	----------
-------	-------	-------	-------	--- -- ---	-------	13.32	—	—	36.07		10:52 Solvent, very soft
MW-6B	13.22	12.50	1	30 to 40	40.0	11.85	-------	-------	-------	0.65	----------
-------	-------	-------	-------	--- -- ---	-------	11.66	—	39.75	—		10:28 Slight
MW-7B	12.70	11.99	2	30 to 40	41.0	11.49	-------	-------	-------	0.50	----------
-------	-------	-------	-------	--- -- ---	-------	11.27	—	39.2	[illegible]		10:15 - Soft No Product
Deep Wells											
Pumping Well (on)	13.34	12.81	6	63 to 78	77.8	14.20	-------	-------	-------	-1.39	----------
Pumping Well (off)	13.34	12.81	6	63 to 78	77.8	10.52	-------	-------	-------	2.29	----------
-------	-------	-------	-------	--- -- ---	-------	9.81	72.60	77.40	~5'		Tape coated to 5'± soft bottom. 9:45
MW-1C	12.86	12.47	1	70 to 80	76.4	9.85	-------	-------	-------	2.62	----------
-------	-------	-------	-------	--- -- ---	-------	9.59	—	76.15	—		10:34 Slight Soft
MW-3C	12.06	11.70	2	67 to 77	77.3	9.98	-------	-------	-------	1.72	----------
-------	-------	-------	-------	--- -- ---	-------	9.57 - 9.88	Slight - Solvent	75.50			11:16, Slight, soft
MW-4C	12.94	12.03	2	75 to 85	81.7	10.40	-------	-------	-------	1.63	----------
-------	-------	-------	-------	--- -- ---	-------	9.95		81.00			11:01 Solvent, very soft

Notes:

ft btoc - feet below top of casing, ft bgs - feet below ground surface

NM - not measured

NS - not surveyed

Top of casing elevations and groundwater elevations in feet above North American Vertical Datum of 1988 (NAVD-88).

Bottom correction slight = 0.12

Bottom correction solvent = 0.07

Figure 5-2

Well ID: MW-1A

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/12/10 Time: Start _____ am/pm
Project No: 60137362 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 20s-30s, dry, Sunny Tester (s): T. Gott, J. Millard

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length 5'
b. Slug Diameter 1"

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Aqua Troll 200
Serial Number 141952
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length _____

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

20' CABLE SN # 220758

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Gott Date 1/14/10

Q:\mw97\sops\7720\hydraulicconductivitytestlog.xls, page 1

Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-4B

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid
Date: Jan 12, ~~[illegible]~~ 2010
Time: Start 1420 am/pm
Finish ____ am/pm
Project No: 60137362
Site Location: 254 Maspeth
Weather Conds: clear, cold
Tester (s): J. Millard T. Croft

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW ____
c. Time of GW reading ____
d. Static GW Elev.(Ho) ____ (a-b)
e. Total Well Depth ____
f. Gravel Pack Diameter ____
g. Water Column Height ____ (e-b)
h. Casing Diameter 2"
i. Screen Length ____
j. Geology of Screened Interval ____

2. SLUG INFORMATION (see back for volume calculation) Pneumatic Test

a. Slug Length NA
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual ____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 118215
Offset ____
Linearity ____
Scale ____
Coefficient ____
Diameter/Length ____
65' Vented 50' Cable 22341 USENV

c. Data Logging Information
Make ____
Model ____
Serial Number ____
Mode ____ (linear or logarithmic)
Ref. Point (designation) ____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) ____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water

Signature Tom Croft
Date 1/12/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-4C

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid
Project No: 60137362.300
Site Location: 254 Maysfield
Weather Conds: Cold, Clear
Date: Jan 12, ~~2009~~ 2010
Tester (s): J. Millard T. Croft
Time: Start _____ am/pm
Finish _____ am/pm

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation) Pneumatic test

a. Slug Length NA
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ Inc
Model Level Troll 700
Serial Number 115712 - USFW
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length _____

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

50' cable 223309 US Environmental

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
12:50		10.28			

Signature Tom Croft Date 1/12/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-2A

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start _____ am/pm
Project No: 6013 7362 Finish _____ am/pm
Site Location: 254 Mespeth Ave, Brooklyn, NY
Weather Conds: 30's, day, Sunny Tester (s): Tom Goff

1. WELL INFORMATION

a. Ref. Point Elev. TOC-PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Pneumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 115712
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 50'
Cable # 223309

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-2A rh1		
		MW-2A rh2		
		MW-2A rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Goff Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-2B

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start 1240 am/pm
Project No: 60137362 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 30s, dry, sunny Tester (s): Tom Goff

1. WELL INFORMATION

a. Ref. Point Elev. TOC-PVC
b. Static Depth to GW 10.60'
c. Time of GW reading 1240
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Pneumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic In-Situ Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 115712
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 50'
Cable # 223309

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-2B rh1		
		MW-2B rh2		
		MW-2B rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Goff Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

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Figure 5-2

Well ID: MW-3C

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start _____ am/pm
Project No: 6013 7302 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 30s, dry, sunny Tester (s): Tom Croft

1. WELL INFORMATION

a. Ref. Point Elev. TOC - PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Rheumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model _____
Serial Number _____
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 100'
Gbla

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-3C rh1		
		MW-3C rh2		
		MW-3C rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Croft Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

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Table ___

Monitoring Well Construction Details and Groundwater Elevation Summary

Former Equity MGP Site, Brooklyn, NY

Well ID	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Well Diameter (inches)	Screened Interval (ft bgs)	Total Depth (ft btoc)	Depth to Water (ft btoc)	DTP	Depth to bottom	Product Thickness	Groundwater Elevation (ft)	Comments
Shallow Wells											
MW-1A	12.92	12.63	1	5 to 15	14.9	7.78	-------	-------	-------	4.85	----------
-------	-------	-------	-------	--- -- ---	-------	7.21	—	14.62	—		10:10 Slight Hour
MW-2A	12.38	11.95	2	5 to 15	16.7	6.22	-------	-------	-------	5.73	----------
-------	-------	-------	-------	--- -- ---	-------	6.04		16.30			10:40 Solvent soft, clayey silty sand
MW-3A	11.93	11.32	2	5 to 15	16.6	5.92	-------	-------	-------	5.40	----------
-------	-------	-------	-------	--- -- ---	-------	5.92	—	16.20			11:15 Slight, soft, clayey silty, some sheen
MW-4A	12.94	12.25	2	2.5 to 12.5	13.4	6.85	-------	-------	-------	5.40	----------
-------	-------	-------	-------	--- -- ---	-------	6.67	—	13.13	—		11:00 Solvent, grey silt on top soft
MW-5A	14.71	14.14	2	5 to 15	15.9	8.49	-------	-------	-------	5.65	----------
-------	-------	-------	-------	--- -- ---	-------	8.31			13.90		10:50 Solvent
MW-6A	13.19	12.85	1	5 to 15	15.2	7.20	-------	-------	-------	5.65	----------
-------	-------	-------	-------	--- -- ---	-------	6.78	—	14.85	—		10:25 - Slight
MW-7A	12.82	12.57	2	5 to 15	15.9	7.25	-------	-------	-------	5.32	----------
-------	-------	-------	-------	--- -- ---	-------	6.98	—	15.75	—		10:10 Soft bottom - Grey silt on top
Intermediate Wells											
MW-1B	12.79	12.22	1	30 to 40	40.1	9.60	-------	-------	-------	2.62	----------
-------	-------	-------	-------	--- -- ---	-------	9.37	-	39.75	—		10:32 Slight
MW-2B	12.41	11.99	2	30 to 40	40.9	10.80	-------	-------	-------	1.19	----------
-------	-------	-------	-------	--- -- ---	-------	10.68	—	38.95	—		10:45 Solvent soft bottom Sheen on top
MW-3B	12.12	11.25	2	30 to 40	36.9	10.30	33.10	-------	3.75	0.95	----------
-------	-------	-------	-------	--- -- ---	-------	10.21	34.9	36.85	~4.1		11:25 Solvent ~4-5' on tape 4.1 of tar on string
MW-4B	13.23	12.47	2	30 to 40	42.3	12.10	12.01	-------	0.09	0.45	----------
-------	-------	-------	-------	--- -- ---	-------	11.80	11.82	39.23	0.02		11:09 Solvent
MW-5B	14.69	14.19	2	25.5 to 35.5	36.3	13.55	-------	-------	-------	0.64	----------
-------	-------	-------	-------	--- -- ---	-------	13.32	—	—	36.07		10:52 Solvent, very soft
MW-6B	13.22	12.50	1	30 to 40	40.0	11.85	-------	-------	-------	0.65	----------
-------	-------	-------	-------	--- -- ---	-------	11.66	—	39.75	—		10:28 Slight
MW-7B	12.70	11.99	2	30 to 40	41.0	11.49	-------	-------	-------	0.50	----------
-------	-------	-------	-------	--- -- ---	-------	11.27	—	39.2	[illegible]		10:15 - Soft No Product
Deep Wells											
Pumping Well (on)	13.34	12.81	6	63 to 78	77.8	14.20	-------	-------	-------	-1.39	----------
Pumping Well (off)	13.34	12.81	6	63 to 78	77.8	10.52	-------	-------	-------	2.29	----------
-------	-------	-------	-------	--- -- ---	-------	9.81	72.60	77.40	~5'		Tape coated to 5'± soft bottom. 9:45
MW-1C	12.86	12.47	1	70 to 80	76.4	9.85	-------	-------	-------	2.62	----------
-------	-------	-------	-------	--- -- ---	-------	9.59	—	76.15	—		10:34 Slight Soft
MW-3C	12.06	11.70	2	67 to 77	77.3	9.98	-------	-------	-------	1.72	----------
-------	-------	-------	-------	--- -- ---	-------	9.57 - 9.88	Slight - Solvent	75.50			11:16, Slight, soft
MW-4C	12.94	12.03	2	75 to 85	81.7	10.40	-------	-------	-------	1.63	----------
-------	-------	-------	-------	--- -- ---	-------	9.95		81.00			11:01 Solvent, very soft

Notes:

ft btoc - feet below top of casing, ft bgs - feet below ground surface

NM - not measured

NS - not surveyed

Top of casing elevations and groundwater elevations in feet above North American Vertical Datum of 1988 (NAVD-88).

Bottom correction slight = 0.12

Bottom correction solvent = 0.07

Figure 5-2

Well ID: MW-1A

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/12/10 Time: Start _____ am/pm
Project No: 60137362 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 20s-30s, dry, Sunny Tester (s): T. Gott, J. Millard

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length 5'
b. Slug Diameter 1"

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Aqua Troll 200
Serial Number 141952
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length _____

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

20' CABLE SN # 220758

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Gott Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-4B

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid
Date: Jan 12, ~~[illegible]~~ 2010
Time: Start 1420 am/pm
Finish ____ am/pm
Project No: 60137362
Site Location: 254 Maspeth
Weather Conds: Clear, cold
Tester (s): J. Millard T. Croft

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW ____
c. Time of GW reading ____
d. Static GW Elev.(Ho) ____ (a-b)
e. Total Well Depth ____
f. Gravel Pack Diameter ____
g. Water Column Height ____ (e-b)
h. Casing Diameter 2"
i. Screen Length ____
j. Geology of Screened Interval ____

2. SLUG INFORMATION (see back for volume calculation) Pneumatic Test

a. Slug Length NA
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual ____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 118215
Offset ____
Linearity ____
Scale ____
Coefficient ____
Diameter/Length ____
65' Vented 50' Cable 22341 USENV

c. Data Logging Information
Make ____
Model ____
Serial Number ____
Mode ____ (linear or logarithmic)
Ref. Point (designation) ____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) ____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water

Signature Tom Croft
Date 1/12/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-4C

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid
Project No: 60137362.300
Site Location: 254 Maysfield
Weather Conds: Cold, Clear
Date: Jan 12, ~~2009~~ 2010
Tester (s): J. Millard T. Croft
Time: Start _____ am/pm
Finish _____ am/pm

1. WELL INFORMATION

a. Ref. Point Elev. TOC PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation) Pneumatic test

a. Slug Length NA
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ Inc
Model Level Troll 700
Serial Number 115712 - USFW
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length _____

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

50' cable 223309 US Environmental

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
12:50		10.28			

Signature Tom Croft Date 1/12/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-2A

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start _____ am/pm
Project No: 6013 7362 Finish _____ am/pm
Site Location: 254 Mespeth Ave, Brooklyn, NY
Weather Conds: 30's, day, Sunny Tester (s): Tom Goff

1. WELL INFORMATION

a. Ref. Point Elev. TOC-PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Pneumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 115712
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 50'
Cable # 223309

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-2A rh1		
		MW-2A rh2		
		MW-2A rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Goff Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

Figure 5-2

Well ID: MW-2B

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start 1240 am/pm
Project No: 60137362 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 30s, dry, sunny Tester (s): Tom Goff

1. WELL INFORMATION

a. Ref. Point Elev. TOC-PVC
b. Static Depth to GW 10.60'
c. Time of GW reading 1240
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Pneumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic In-Situ Rugged Reader

b. Transducer Information
Make In-Situ
Model Level Troll 700
Serial Number 115712
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 50'
Cable # 223309

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-2B rh1		
		MW-2B rh2		
		MW-2B rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Goff Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

q:\mw97\sops\7720\hydraulicconductivitytestlog.xls, page 2

Figure 5-2

Well ID: MW-3C

HYDRAULIC CONDUCTIVITY TEST LOG

Client: National Grid Date: 1/14/10 Time: Start _____ am/pm
Project No: 6013 7302 Finish _____ am/pm
Site Location: 254 Maspeth Ave, Brooklyn, NY
Weather Conds: 30s, dry, sunny Tester (s): Tom Croft

1. WELL INFORMATION

a. Ref. Point Elev. TOC - PVC
b. Static Depth to GW _____
c. Time of GW reading _____
d. Static GW Elev.(Ho) _____ (a-b)
e. Total Well Depth _____
f. Gravel Pack Diameter _____
g. Water Column Height _____ (e-b)
h. Casing Diameter 2"
i. Screen Length _____
j. Geology of Screened Interval _____

2. SLUG INFORMATION (see back for volume calculation)

a. Slug Length NA Rheumatic Test
b. Slug Diameter NA

3. DATA COLLECTION

a. Method of Data Collection: Manual _____ (see back) Electronic Rugged Reader

b. Transducer Information
Make In-Situ
Model _____
Serial Number _____
Offset _____
Linearity _____
Scale _____
Coefficient _____
Diameter/Length 100'
Gbla

c. Data Logging Information
Make _____
Model _____
Serial Number _____
Mode _____ (linear or logarithmic)
Ref. Point (designation) _____ (TOC, Ground Surface, actual el
Ref. Point value (if elev.) _____
Positive numbers indicate increase or decrease in water level (circle one)

4. HYDRAULIC TEST INFORMATION

Start Time	Test Type (rising, falling)	Electronic File Name	Comments	End Time
	rising	MW-3C rh1		
		MW-3C rh2		
		MW-3C rh3		

5. MANUAL WATER LEVEL READINGS (as needed for control)

Time	Location	Depth to Water	Time	Location	Depth to Water
Not Collected					

Signature Tom Croft Date 1/14/10

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Figure 5-2

6. EXPECTED WATER LEVEL DISPLACEMENT CALCULATION (optional)

a. Diameter of Slug (in) _____
b. Length of Slug (ft) _____
c. Volume/Linear ft of Slug (gal/ft from chart) _____
d. Volume of Slug (gal) _____ (b*c)
e. Diameter of Well (in) _____
f. Volume/Linear ft of Well (gal/ft from chart) _____
g. Expected Change in Water Level _____ (d/f)

Note: Water column height (1-g from front page) should be greater than transducer length plus length of slug, unless well geometry prohibits.

Volume / Linear Ft. of Pipe		
Diam. (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178

7. MANUAL WATER LEVEL MEASUREMENTS

Time (HH:MM)	Elapsed Time (min)	Depth to Water from TOC (ft)	Head, h (TOC - water depth)	h/Ho	Comments
	0			1	

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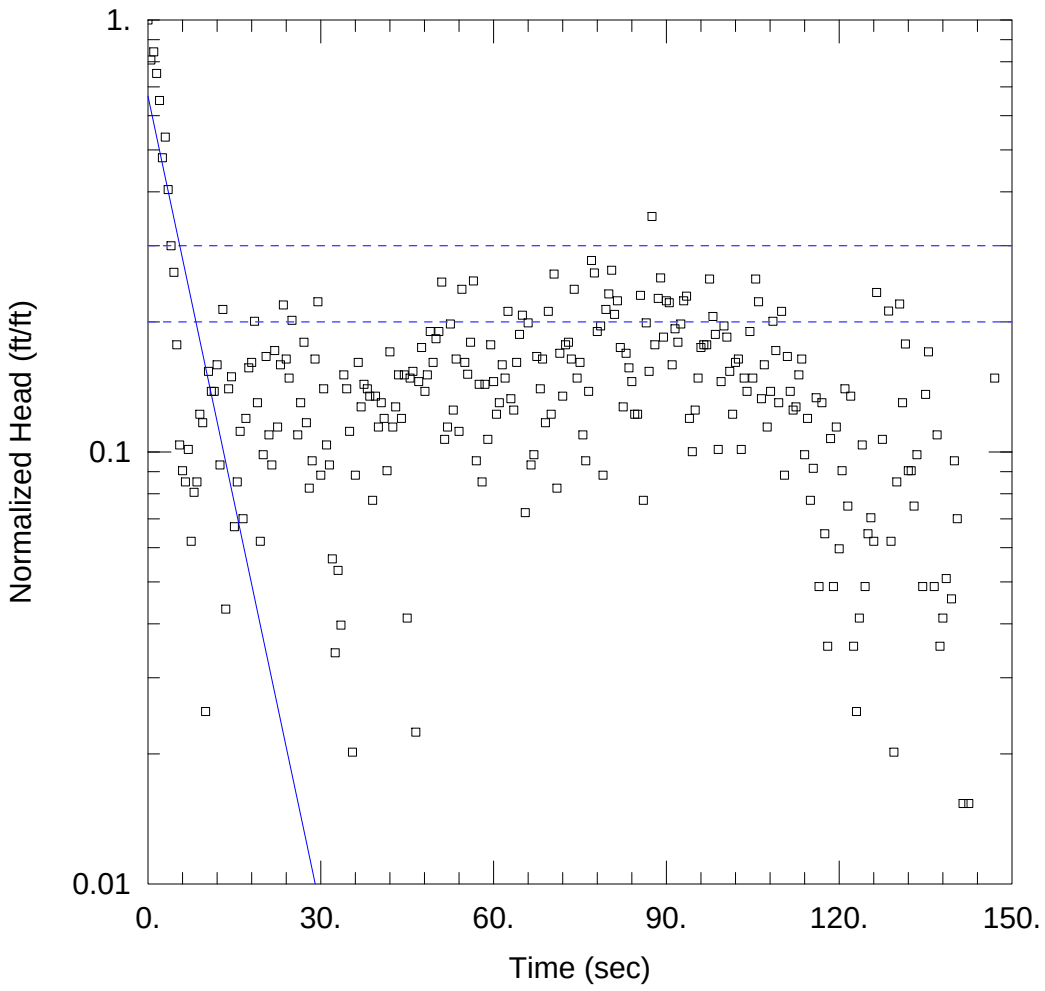


WELL TEST ANALYSIS

Data Set: P:\...\MW-1C.aqt
Date: 01/04/16 Time: 13:56:30

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (MW-1C)

Initial Displacement: 0.18 ft
Total Well Penetration Depth: 80. ft
Casing Radius: 0.04 ft
Static Water Column Height: 77.33 ft
Screen Length: 10. ft
Well Radius: 0.04 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 8.123 ft/day y0 = 0.1199 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:56:45

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.01

SLUG TEST WELL DATA

Test Well: MW-1C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.18 ft
Static Water Column Height: 77.33 ft
Casing Radius: 0.04 ft
Well Radius: 0.04 ft
Well Skin Radius: 0.166 ft
Screen Length: 10. ft
Total Well Penetration Depth: 80. ft

No. of Observations: 300

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.501	0.1453	75.5	0.01972
1.001	0.1519	76.	0.01717
1.501	0.1353	76.5	0.02485
2.001	0.1171	77.	0.04994
2.501	0.08631	77.5	0.04672
3.001	0.09635	78.	0.03419
3.501	0.07284	78.59	0.03523
4.001	0.05399	79.	0.01589
4.501	0.0469	79.5	0.03846
5.001	0.03187	80.	0.04179
5.501	0.01868	80.5	0.04739
6.001	0.01628	81.	0.03748
6.501	0.01534	81.5	0.04029
7.001	0.01823	82.	0.03139
7.501	0.01117	82.5	0.02288
8.001	0.01451	83.	0.03045
8.501	0.01534	83.5	0.02817
9.001	0.022	84.	0.02619
9.501	0.02102	84.5	0.022
10.	0.00451	85.	0.022
10.5	0.02765	85.5	0.04147
11.	0.02485	86.	0.01391
11.5	0.02485	86.5	0.03581
12.	0.02864	87.	0.02765
12.5	0.01679	87.5	0.06316
13.	0.03846	88.	0.03187
13.5	0.007787	88.59	0.0408
14.	0.02521	89.	0.04552
14.5	0.02686	89.5	0.0332
15.	0.01209	90.	0.04029

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.5	0.01534	90.5	0.03985
16.	0.02009	91.	0.02864
16.5	0.01261	91.5	0.03469
17.	0.02151	92.	0.03229
17.5	0.02817	92.5	0.0356
18.	0.02902	93.	0.04029
18.5	0.0361	93.5	0.04129
19.	0.0234	94.	0.02151
19.5	0.01117	94.5	0.01803
20.	0.01774	95.	0.0225
20.5	0.02992	95.5	0.02669
21.	0.01972	96.	0.03139
21.5	0.01679	96.5	0.03187
22.	0.0309	97.	0.03187
22.5	0.02055	97.5	0.04522
23.	0.02864	98.08	0.03705
23.5	0.03938	98.5	0.03367
24.	0.02953	99.	0.01823
24.5	0.02669	99.5	0.02619
25.	0.03631	100.	0.03523
25.5	-0.002074	100.5	0.0332
26.	0.01972	101.	0.02765
26.5	0.0234	101.5	0.022
27.09	0.03229	102.	0.02902
27.5	0.02102	102.5	0.02953
28.	0.01484	103.	0.01823
28.5	0.01717	103.5	0.02669
29.	0.02953	104.	0.02485
29.5	0.04008	104.5	0.03419
30.	0.01589	105.	0.02669
30.5	0.02521	105.5	0.04522
31.	0.01868	106.	0.04008
31.5	0.01679	106.5	0.0239
32.	0.01018	107.	0.02864
32.5	0.00617	107.5	0.02055
33.	0.009573	108.1	0.02485
33.5	0.00715	108.5	0.0361
34.	0.02714	109.	0.0309
34.5	0.02521	109.5	0.0234
35.	0.02009	110.	0.03808
35.5	0.003633	110.5	0.01589
36.	0.01589	111.	0.02992
36.5	0.02902	111.5	0.02485
37.	0.02288	112.	0.0225
37.5	0.0258	112.5	0.02288
38.09	0.02521	113.	0.02714
38.5	0.02424	113.5	0.02953
39.	0.01391	114.	0.01774
39.5	0.02424	114.5	0.02151
40.	0.02055	115.	0.01391
40.5	0.0234	115.5	0.01649
41.	0.02151	116.	0.02403
41.5	0.01628	116.5	0.008783
42.	0.03068	117.	0.0234
42.5	0.02055	117.5	0.01163
43.	0.02288	118.	0.006387
43.5	0.02714	118.5	0.01933
44.	0.02151	119.	0.008783
44.5	0.02714	119.5	0.02055
45.	0.007421	120.	0.01074
45.5	0.02669	120.5	0.01628
46.	0.02765	121.	0.02521
46.5	0.004041	121.5	0.01349
47.	0.02619	122.	0.02424
47.5	0.03139	122.5	0.006387
48.09	0.02485	123.	0.00451

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.5	0.02714	123.5	0.007421
49.	0.03419	124.	0.01868
49.5	0.02902	124.5	0.008783
50.	0.0329	125.	0.01163
50.5	0.03419	125.5	0.01267
51.	0.04451	126.	0.01117
51.5	0.01925	126.5	0.04211
52.	0.02055	127.	-0.004359
52.5	0.0356	127.5	0.01925
53.	0.0225	128.	-0.001109
53.5	0.02953	128.6	0.03815
54.	0.02009	129.	0.01117
54.5	0.04282	129.5	0.003633
55.	0.02902	130.	0.01534
55.5	0.02723	130.5	0.03959
56.	0.03229	131.	0.0234
56.5	0.04476	131.5	0.03199
57.	0.01717	132.	0.01628
57.5	0.0258	132.5	0.01628
58.	0.01534	133.	0.01349
58.5	0.0258	133.5	0.01774
59.	0.01925	134.	-0.005457
59.51	0.03187	134.5	0.008783
60.	0.02619	135.	0.02445
60.5	0.022	135.5	0.03068
61.	0.0234	136.	-0.006258
61.5	0.02864	136.5	0.008783
62.	0.02669	137.	0.01972
62.5	0.03808	137.5	0.006387
63.	0.0239	138.	0.007421
63.5	0.0225	138.6	0.009161
64.	0.02902	139.	0.001264
64.5	0.03367	139.5	0.008226
65.	0.03731	140.	0.01717
65.5	0.01302	140.5	0.01261
66.	0.03581	141.	-0.006258
66.5	0.01679	141.5	0.002763
67.	0.01774	142.	-0.005389
67.5	0.02992	142.5	0.002763
68.14	0.02521	143.	-0.006758
68.53	0.02953	143.5	-0.008135
69.	0.02102	144.	-0.002486
69.5	0.03808	144.5	-0.008658
70.	0.022	145.	-0.01517
70.5	0.04645	145.5	-0.006258
71.	0.01484	146.	-0.001109
71.5	0.03045	146.5	-0.01239
72.	0.02424	147.	0.02669
72.5	0.03187	147.5	-0.01281
73.	0.03229	148.	-0.02419
73.5	0.02953	148.6	-0.01473
74.	0.04282	149.	-0.003939
74.5	0.02669	149.5	-0.007731
75.	0.02902	150.	-0.000727

SOLUTION

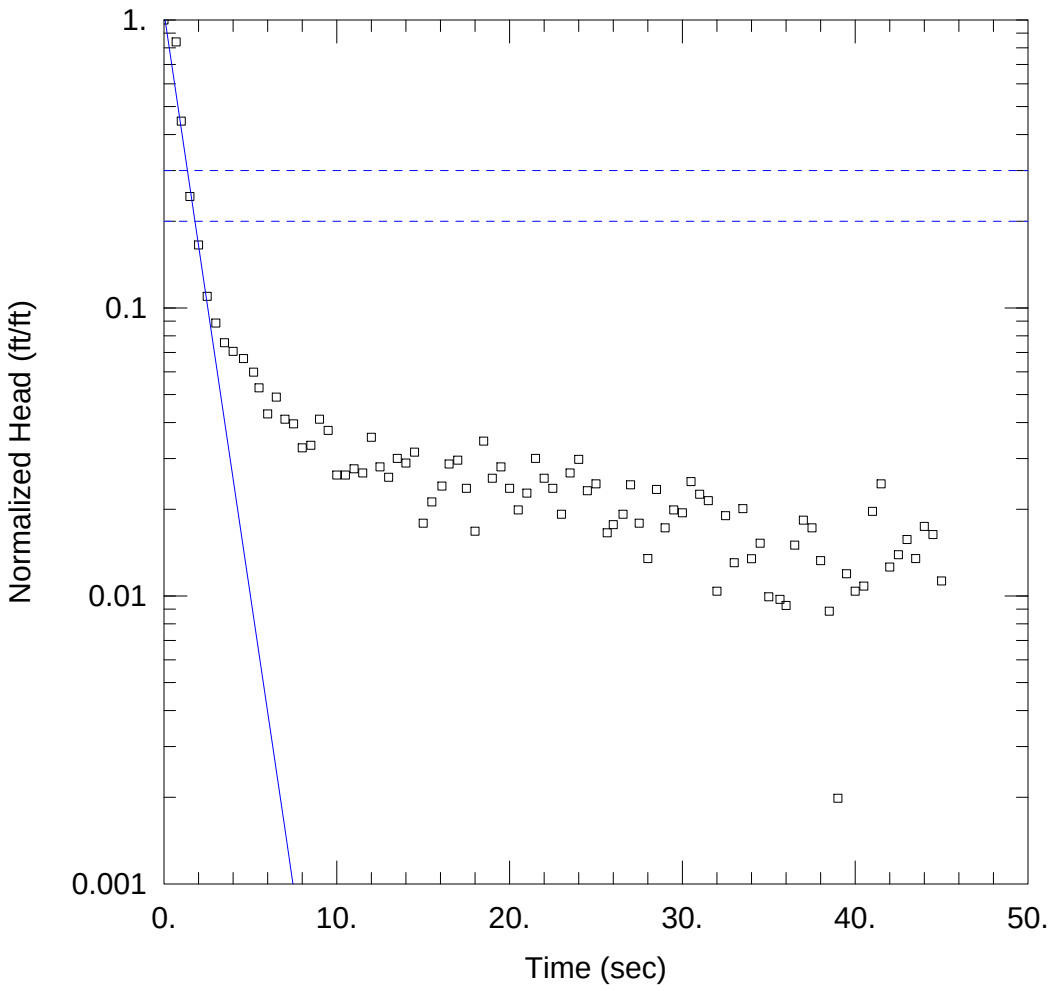
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 8.129

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	8.123	ft/day
y0	0.1199	ft

K = 0.002866 cm/sec
T = K*b = 812.3 ft²/day (8.735 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2A rh1.aqt
Date: 01/04/16 Time: 13:34:43

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-2A)

Initial Displacement: 0.57 ft Static Water Column Height: 10.79 ft
Total Well Penetration Depth: 15. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 125.4 ft/day y0 = 0.606 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:35:42

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-2A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.57 ft
Static Water Column Height: 10.79 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 93

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-7	0.5753	23.5	0.01523
0.708	0.4779	24.	0.01699
1.	0.2538	24.5	0.01322
1.5	0.139	25.	0.01397
2.	0.09429	25.65	0.009441
2.5	0.06257	26.	0.01008
3.	0.05049	26.57	0.01095
3.5	0.04318	27.	0.01385
4.	0.04029	27.5	0.01019
4.602	0.03801	28.	0.007682
5.189	0.03411	28.5	0.01335
5.5	0.03009	29.	0.009818
6.	0.02443	29.5	0.01133
6.5	0.02795	30.	0.01108
7.	0.02342	30.5	0.01422
7.5	0.02255	31.	0.01284
8.	0.01863	31.5	0.01221
8.5	0.01901	32.	0.00592
9.	0.02342	32.5	0.01082
9.5	0.0214	33.	0.007429
10.	0.01499	33.5	0.01145
10.5	0.01499	34.	0.007673
11.	0.01574	34.5	0.008684
11.5	0.01523	35.	0.005663
12.	0.02027	35.65	0.005544
12.5	0.01599	36.	0.005284
13.	0.01472	36.5	0.00856
13.5	0.01712	37.	0.01044
14.	0.01649	37.5	0.009818
14.5	0.018	38.	0.007554

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.01019	38.5	0.005042
15.5	0.01209	39.	0.001131
16.09	0.01372	39.5	0.006805
16.5	0.01637	40.	0.00592
17.	0.01688	40.5	0.006169
17.5	0.01347	41.	0.0112
18.	0.009565	41.5	0.01397
18.5	0.01964	42.	0.007178
19.	0.0146	42.5	0.007922
19.5	0.01599	43.	0.008946
20.	0.01347	43.5	0.007682
20.5	0.01133	44.	0.009943
21.	0.01296	44.5	0.009309
21.5	0.01712	45.	0.006421
22.	0.01461	46.5	48.5
22.5	0.01347	50.	52.
23.	0.01095		

SOLUTION

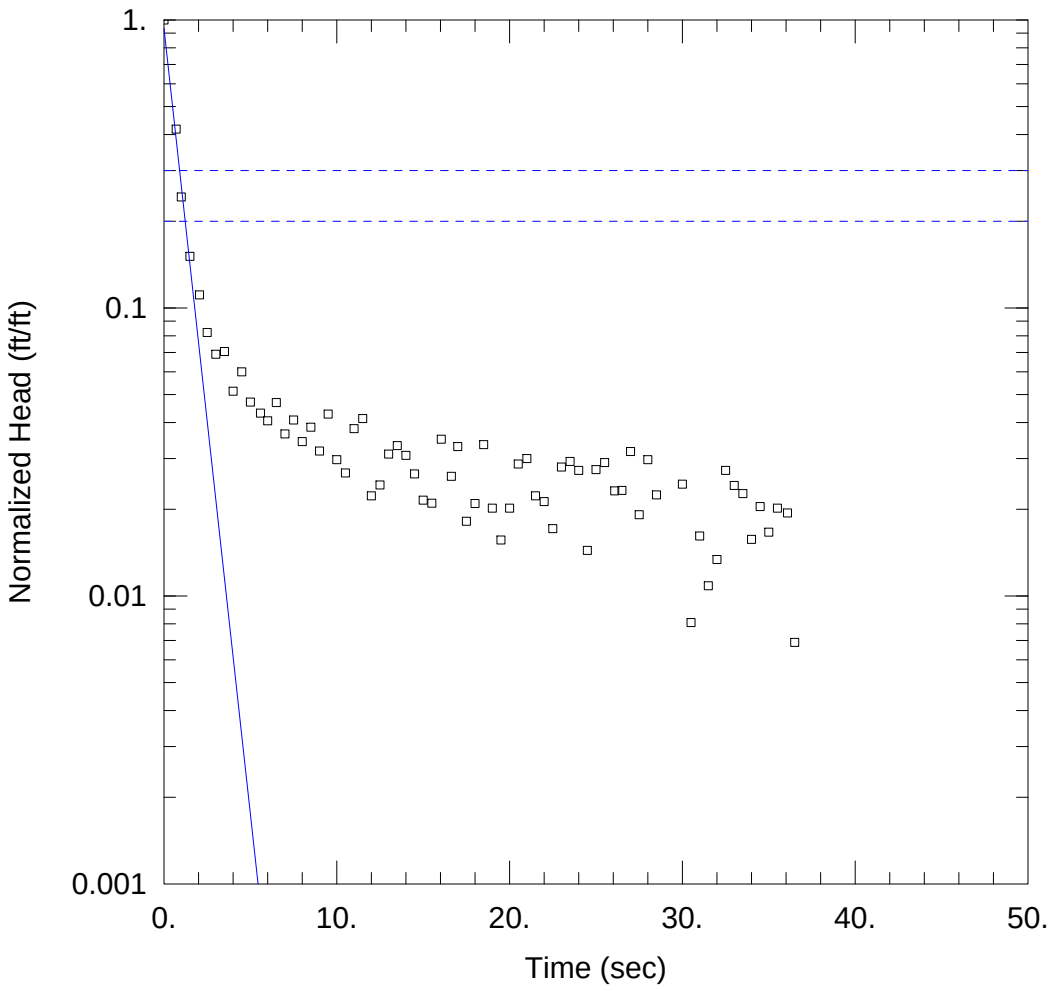
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.516

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	125.4	ft/day
y0	0.606	ft

K = 0.04422 cm/sec
T = K*b = 1.254E+4 ft²/day (134.8 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2A rh2.aqt
Date: 01/04/16 Time: 13:36:17

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-2A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.79 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 168.8 ft/day
y0 = 0.4671 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:36:34

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-2A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.5 ft
Static Water Column Height: 10.79 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 76

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-9	0.5006	19.	0.01008
0.711	0.2089	19.5	0.007815
1.	0.1214	20.	0.01008
1.5	0.07555	20.5	0.01436
2.061	0.05553	21.	0.015
2.5	0.04108	21.5	0.01112
3.	0.03454	22.	0.01063
3.5	0.03529	22.5	0.008562
4.	0.02569	23.	0.01401
4.5	0.03001	23.5	0.01465
5.	0.02355	24.	0.01364
5.59	0.02157	24.5	0.007192
6.	0.02028	25.	0.01373
6.5	0.02347	25.5	0.01453
7.	0.01826	26.09	0.01159
7.5	0.0204	26.5	0.01163
8.	0.01718	27.	0.01587
8.5	0.01927	27.5	0.009572
9.	0.01592	28.	0.01487
9.5	0.02141	28.5	0.01121
10.	0.01487	29.	-0.000622
10.5	0.01336	29.5	-0.000491
11.	0.01905	30.	0.01223
11.5	0.02065	30.5	0.004042
12.	0.01113	31.	0.00807
12.5	0.01214	31.5	0.005425
13.	0.01553	32.	0.006688
13.5	0.01663	32.5	0.01364
14.	0.01538	33.	0.0121
14.5	0.01326	33.5	0.01134

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.01075	34.	0.007857
15.5	0.01049	34.5	0.01021
16.05	0.01751	35.	0.008323
16.64	0.01302	35.5	0.01008
17.	0.0165	36.09	0.009709
17.5	0.009078	36.5	0.003447
18.	0.01046	38.31	40.
18.5	0.01676	41.5	43.5

SOLUTION

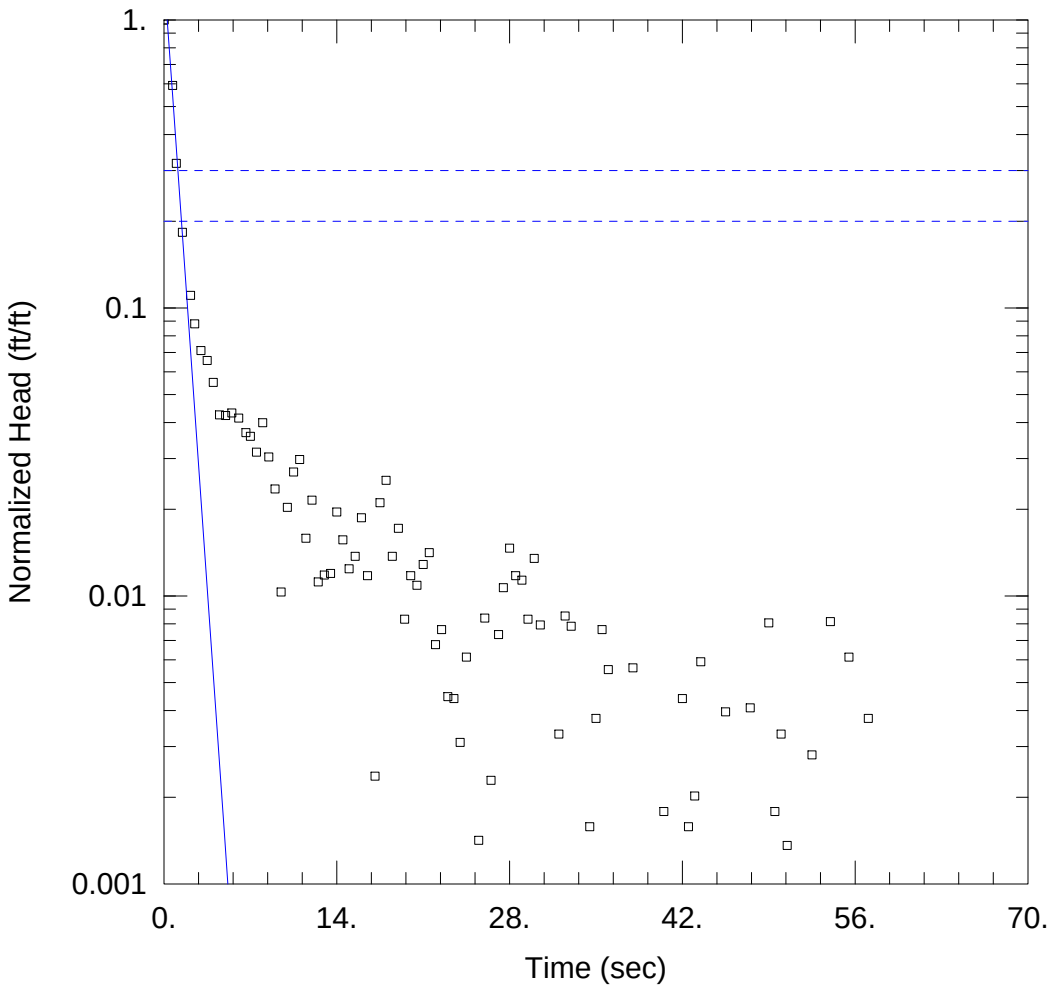
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.516

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	168.8	ft/day
y0	0.4671	ft

K = 0.05956 cm/sec
T = K*b = 1.688E+4 ft²/day (181.5 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2A rh3.aqt
Date: 01/04/16 Time: 13:37:13

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (New Well)

Initial Displacement: 0.581 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.79 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 189. ft/day
y0 = 0.8507 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:37:34

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: New Well

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.581 ft
Static Water Column Height: 10.79 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 117

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-7	0.5804	29.5	0.004822
0.707	0.3439	30.	0.007839
1.	0.1846	30.5	0.004604
1.5	0.1064	31.	-0.002363
2.154	0.06423	31.5	0.00046
2.5	0.05114	32.	0.001924
3.	0.04132	32.5	0.004946
3.5	0.03818	33.	0.00456
4.	0.03201	33.5	0.000156
4.5	0.0247	34.	-0.002605
5.	0.02458	34.5	0.000918
5.5	0.02508	35.	0.002182
6.057	0.02408	35.5	0.004437
6.644	0.02143	36.	0.003222
7.	0.0208	36.5	-0.001096
7.5	0.01834	37.1	0.000156
8.	0.0232	37.5	-0.000897
8.5	0.01766	38.	0.003271
9.	0.01367	38.5	-0.009419
9.5	0.005995	39.	-0.003411
10.	0.01179	39.5	3.5E-5
10.5	0.01564	40.	0.000245
11.	0.01729	40.5	0.001037
11.5	0.009219	41.	-0.004038
12.	0.0125	41.5	-0.001471
12.5	0.006494	42.	0.002557
13.	0.006863	42.5	0.000918
13.5	0.006956	43.	0.001174
14.	0.01137	43.5	0.003431
14.5	0.009099	44.	-0.001599

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.007213	44.5	-0.000218
15.5	0.007971	45.	-0.000465
16.	0.01085	45.5	0.002301
16.5	0.006828	46.	-0.002733
17.11	0.001376	46.5	-0.00122
17.5	0.01225	47.1	-0.003865
18.	0.01464	47.5	0.002375
18.5	0.007971	48.	-0.00101
19.	0.009975	48.5	-0.007554
19.5	0.004822	49.	0.004685
20.	0.006828	49.5	0.001037
20.5	0.006326	50.	0.001924
21.	0.007472	50.5	0.00079
21.5	0.00821	51.	-0.002099
22.	0.003937	51.5	-0.003232
22.5	0.004437	52.	-0.008442
23.	0.002596	52.5	0.00163
23.5	0.002557	53.	-0.003114
24.	0.001801	53.5	-0.007012
24.5	0.003563	54.	0.004734
25.	-0.001067	54.5	-0.000515
25.5	0.000823	55.	-0.001096
26.	0.004867	55.5	0.003563
26.5	0.00133	56.	0.000539
27.11	0.004268	56.5	3.5E-5
27.5	0.006203	57.07	0.002182
28.	0.008513	58.5	60.5
28.5	0.006828	62.12	64.
29.	0.006591		

SOLUTION

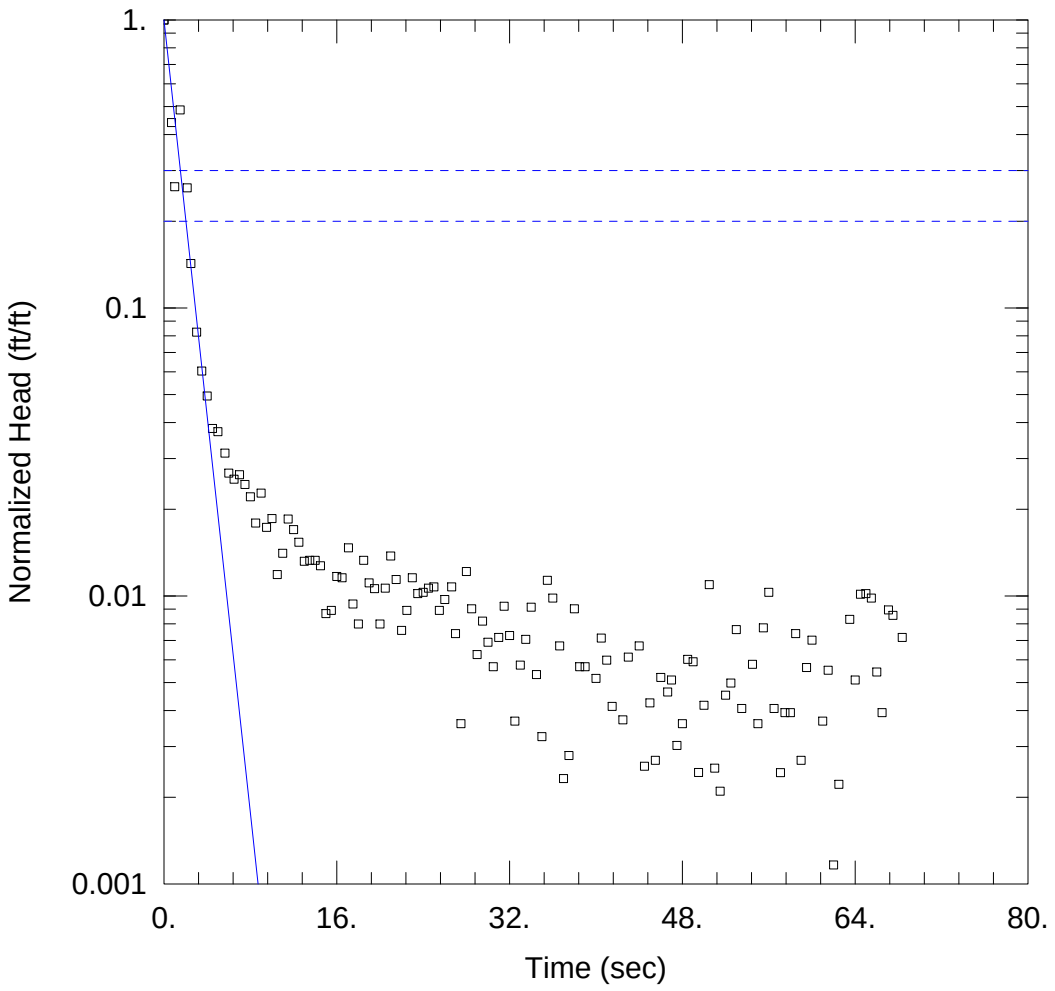
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.516

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	189.	ft/day
y0	0.8507	ft

K = 0.06668 cm/sec
T = K*b = 1.89E+4 ft²/day (203.2 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2A rh4.aqt
Date: 01/04/16 Time: 13:38:06

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (New Well)

Initial Displacement: 1.09 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.083 ft
Static Water Column Height: 10.79 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 106.5 ft/day
y0 = 1.09 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:38:25

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: New Well

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.09 ft
Static Water Column Height: 10.79 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 15. ft

No. of Observations: 139

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-8	1.089	35.	0.003539
0.705	0.4795	35.5	0.01235
1.	0.2871	36.	0.01071
1.5	0.5307	36.65	0.007309
2.154	0.2846	37.	0.00253
2.5	0.1554	37.5	0.003041
3.034	0.08974	38.	0.009834
3.5	0.06584	38.5	0.006188
4.	0.05388	39.	0.006188
4.5	0.04155	39.5	-0.00015
5.	0.04054	40.	0.00564
5.656	0.03412	40.5	0.00778
6.001	0.02909	41.	0.00652
6.5	0.02771	41.5	0.004504
7.	0.02871	42.	0.000855
7.5	0.02657	42.5	0.004048
8.	0.02406	43.	0.006681
8.5	0.01953	43.5	0.000855
9.	0.02481	44.	0.007309
9.5	0.01885	44.5	0.002792
10.	0.02024	45.	0.004634
10.5	0.01294	45.5	0.002927
11.	0.01533	46.	0.005677
11.5	0.02016	46.65	0.005058
12.	0.01853	47.	0.005563
12.5	0.01675	47.5	0.003299
13.	0.01437	48.	0.003927
13.5	0.01449	48.5	0.006567
14.	0.01449	49.	0.006442
14.5	0.01387	49.5	0.002656

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.009462	50.	0.004545
15.5	0.009713	50.5	0.01193
16.	0.01273	51.	0.002752
16.5	0.01261	51.5	0.002287
17.09	0.016	52.	0.004926
17.5	0.01022	52.5	0.005433
18.	0.008703	53.	0.008322
18.5	0.01449	53.5	0.004431
19.	0.0121	54.	0.000392
19.5	0.01156	54.5	0.006309
20.	0.008703	55.	0.003927
20.5	0.0116	55.5	0.008445
21.	0.01499	56.	0.01122
21.5	0.01243	56.5	0.004431
22.	0.008275	57.09	0.002653
22.5	0.009713	57.5	0.004289
23.	0.01261	58.	0.004289
23.5	0.0111	58.5	0.008066
24.	0.01122	59.	0.002927
24.5	0.0116	59.5	0.006146
25.	0.01171	60.	0.007655
25.5	0.009713	60.5	-0.003763
26.	0.0106	61.	0.004005
26.65	0.01171	61.5	0.006015
27.	0.008066	62.	0.001269
27.5	0.003927	62.5	0.002416
28.	0.01324	63.	-0.00262
28.5	0.009834	63.5	0.009035
29.	0.006818	64.	0.005563
29.5	0.008912	64.5	0.01104
30.	0.007529	65.	0.0111
30.5	0.006188	65.5	0.01071
31.	0.007822	66.	0.005935
31.5	0.01004	66.5	0.004289
32.	0.007947	67.09	0.00975
32.5	0.004005	67.5	0.009331
33.	0.006267	68.36	0.007822
33.5	0.007699	69.68	71.5
34.	0.009958	73.	75.
34.5	0.005809		

SOLUTION

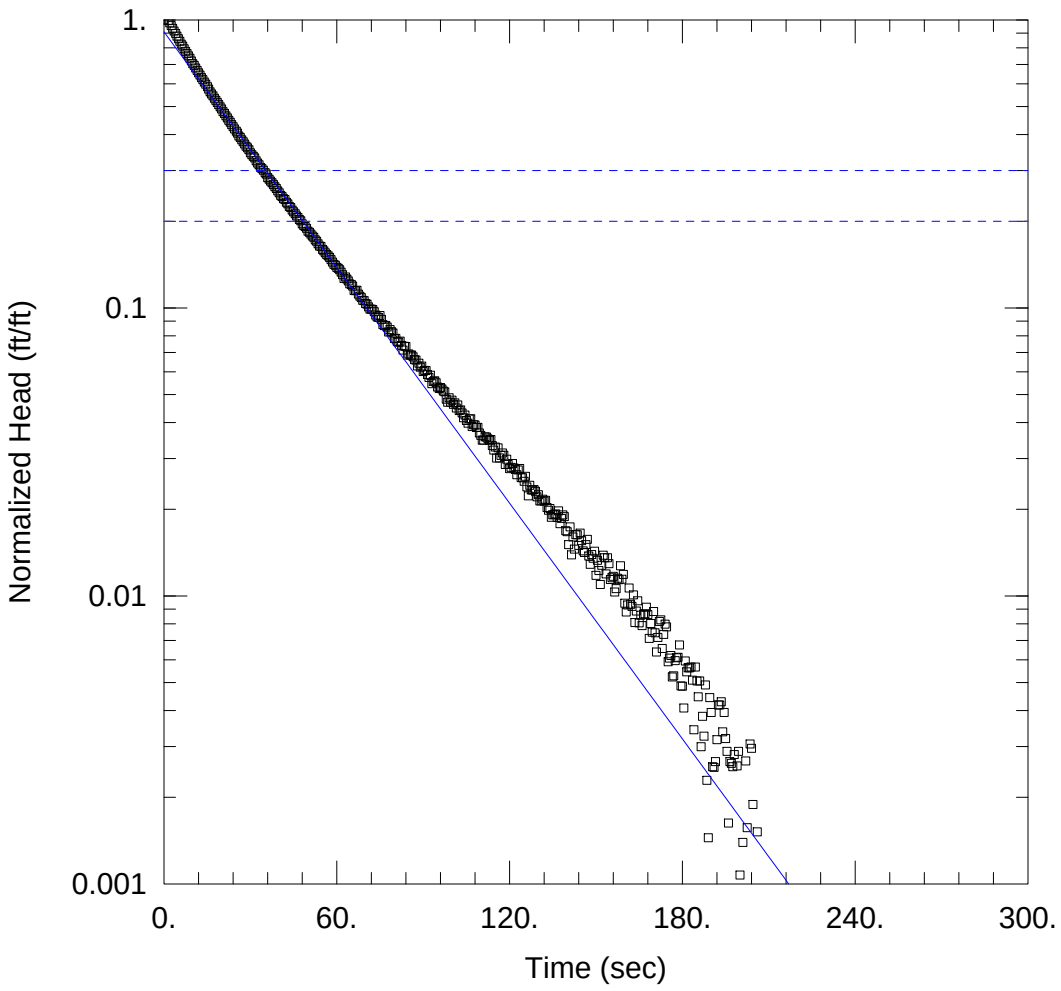
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.516

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	106.5	ft/day
y0	1.09	ft

K = 0.03757 cm/sec
T = K*b = 1.065E+4 ft²/day (114.5 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2B rh1 no sand pack.aqt
Date: 01/04/16 Time: 13:39:48

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-2B)

Initial Displacement: 3.57 ft Static Water Column Height: 38.69 ft
Total Well Penetration Depth: 40. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 4.714 ft/day y0 = 3.245 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:40:08

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-2B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3.57 ft
Static Water Column Height: 38.69 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 415

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-8	3.57	104.	0.1484
0.705	3.735	104.5	0.1516
1.	3.651	105.	0.1452
1.5	3.551	105.6	0.142
2.	3.484	106.	0.1468
2.5	3.41	106.5	0.1473
3.001	3.34	107.	0.1383
3.5	3.266	107.5	0.1403
4.085	3.204	108.	0.14
4.5	3.134	108.5	0.1373
5.	3.071	109.	0.1374
5.5	3.01	109.5	0.1314
6.	2.941	110.	0.1288
6.5	2.895	110.5	0.124
7.	2.835	111.	0.1241
7.5	2.778	111.5	0.1275
8.	2.726	112.	0.1271
8.5	2.679	112.5	0.1254
9.	2.627	113.	0.1238
9.5	2.57	113.5	0.1246
10.	2.518	114.	0.1188
10.5	2.482	114.5	0.1145
11.	2.431	115.1	0.1175
11.5	2.383	115.5	0.1074
12.	2.338	116.	0.1167
12.5	2.298	116.5	0.1076
13.	2.252	117.	0.1099
13.5	2.214	117.5	0.112
14.	2.173	118.	0.1099
14.5	2.135	118.5	0.1021

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.14	2.093	119.	0.1065
15.5	2.053	119.5	0.102
16.	2.01	120.	0.09872
16.5	1.976	120.5	0.09977
17.	1.946	121.	0.1029
17.5	1.908	121.5	0.09922
18.	1.877	122.	0.09813
18.5	1.846	122.5	0.09411
19.	1.813	123.	0.09776
19.5	1.78	123.5	0.09889
20.	1.753	124.	0.092
20.5	1.715	124.5	0.09187
21.	1.691	125.1	0.08932
21.5	1.658	125.5	0.09287
22.	1.63	126.	0.08539
22.5	1.599	126.5	0.07944
23.	1.576	127.	0.08643
23.5	1.546	127.5	0.08328
24.	1.52	128.	0.08317
24.5	1.493	128.5	0.08354
25.14	1.467	129.	0.0824
25.52	1.444	129.5	0.07885
26.	1.411	130.	0.0802
26.5	1.394	130.5	0.07627
27.	1.368	131.	0.07634
27.5	1.348	131.5	0.07731
28.	1.325	132.	0.07618
28.5	1.301	132.5	0.07663
29.	1.284	133.	0.07237
29.5	1.265	133.5	0.07087
30.	1.234	134.	0.07179
30.5	1.215	134.5	0.06697
31.	1.2	135.	0.06823
31.5	1.184	135.5	0.0684
32.	1.157	136.	0.06873
32.5	1.137	136.5	0.06685
33.	1.121	137.	0.07049
33.5	1.098	137.5	0.06362
34.	1.087	138.	0.06634
34.5	1.073	138.5	0.06828
35.14	1.053	139.	0.06726
35.52	1.041	139.5	0.06012
36.	1.012	140.	0.05969
36.5	0.9993	140.5	0.05383
37.	0.9834	141.	0.06199
37.5	0.9719	141.5	0.04956
38.	0.9561	142.	0.05719
38.5	0.9403	142.5	0.05187
39.01	0.9275	143.	0.05823
39.5	0.9099	143.5	0.05823
40.	0.8967	144.	0.05342
40.5	0.8781	144.5	0.05899
41.	0.8687	145.	0.05555
41.5	0.8553	145.6	0.05116
42.	0.8489	146.	0.05053
42.5	0.8312	146.5	0.0538
43.	0.8208	147.	0.0561
43.5	0.8038	147.5	0.04915
44.	0.7971	148.	0.04596
44.5	0.7808	148.5	0.04966
45.	0.7698	149.	0.04827
45.58	0.7578	149.5	0.05103
46.	0.7447	150.	0.04206
46.5	0.7362	150.5	0.04745
47.	0.7236	151.	0.0437
47.5	0.7165	151.5	0.03914

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.699	152.	0.04559
48.5	0.6907	152.5	0.04945
49.	0.6839	153.	0.04844
49.5	0.6744	153.5	0.04254
50.	0.6596	154.	0.04844
50.5	0.6531	154.5	0.04619
51.	0.6443	155.	0.04069
51.5	0.6344	155.6	0.0413
52.	0.6276	156.	0.04175
52.5	0.6152	156.5	0.03684
53.	0.6085	157.	0.03786
53.5	0.596	157.5	0.04112
54.	0.585	158.	0.04067
54.5	0.5841	158.5	0.04543
55.09	0.5698	159.	0.04079
55.5	0.5631	159.5	0.04242
56.	0.5546	160.	0.03367
56.5	0.5471	160.5	0.0314
57.	0.5414	161.	0.03322
57.5	0.5346	161.5	0.03803
58.	0.5251	162.	0.03338
58.5	0.5148	162.5	0.03283
59.	0.5058	163.	0.03602
59.5	0.502	163.5	0.02884
60.	0.4938	164.	0.03163
60.5	0.4897	164.5	0.03435
61.	0.4844	165.	0.02877
61.5	0.4749	165.6	0.0306
62.	0.4655	166.	0.02818
62.5	0.4523	166.5	0.03082
63.	0.4571	167.	0.03095
63.5	0.4499	167.5	0.03264
64.	0.4431	168.	0.03074
64.5	0.4327	168.5	0.02543
65.08	0.4299	169.	0.02862
65.5	0.4253	169.5	0.02674
66.	0.4108	170.	0.03151
66.5	0.4094	170.5	0.02657
67.	0.4111	171.	0.02279
67.5	0.399	171.5	0.0256
68.	0.3923	172.	0.02912
68.5	0.3879	172.5	0.02949
69.	0.3794	173.	0.02347
69.5	0.3782	173.5	0.02624
70.	0.3697	174.	0.0285
70.5	0.3679	174.5	0.02787
71.	0.3601	175.1	0.02109
71.5	0.3534	175.5	0.02171
72.	0.3535	176.	0.02216
72.5	0.3524	176.5	0.01867
73.	0.3466	177.	0.01885
73.5	0.3373	177.5	0.02128
74.	0.3319	178.	0.02178
74.5	0.3308	178.5	0.02185
75.	0.3359	179.	0.02411
75.5	0.3258	179.5	0.01739
76.	0.3123	180.	0.01734
76.5	0.31	180.5	0.01457
77.	0.3105	181.	0.02122
77.5	0.3063	181.5	0.01945
78.	0.2945	182.	0.02009
78.5	0.3002	182.5	0.02009
79.	0.2954	183.	0.02022
79.5	0.2921	183.5	0.0182
80.	0.2798	184.	0.01225
80.5	0.2798	184.5	0.02022

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.2728	185.1	0.01809
81.5	0.2713	185.5	0.01594
82.	0.2739	186.	0.01809
82.5	0.2645	186.5	0.0107
83.	0.2548	187.	0.01363
83.5	0.2626	187.5	0.01164
84.	0.2623	188.	0.01751
84.5	0.2451	188.5	0.008178
85.	0.2471	189.	0.005166
85.58	0.2447	189.5	0.01583
86.	0.2451	190.	0.01406
86.5	0.2414	190.5	0.009112
87.	0.2359	191.	0.009063
87.5	0.2354	191.5	0.00949
88.	0.2246	192.	0.01131
88.5	0.2295	192.5	0.01494
89.	0.2224	193.	0.01494
89.5	0.2241	193.5	0.01532
90.	0.2148	194.	0.01205
90.5	0.2166	194.5	0.01406
91.	0.2164	195.	0.01142
91.5	0.2094	195.5	0.0103
92.	0.2049	196.	0.005805
92.5	0.2084	196.5	0.00949
93.	0.1947	197.	0.009364
93.5	0.1984	197.5	0.009112
94.	0.1993	198.	0.01005
94.5	0.1962	198.5	0.00184
95.	0.1896	199.	0.009172
95.58	0.1876	199.5	0.0103
96.	0.1888	200.	0.003835
96.5	0.1867	200.5	0.003221
97.	0.1837	201.	0.004977
97.5	0.1826	201.5	0.000836
98.	0.172	202.	0.009547
98.5	0.168	202.5	0.005595
99.	0.174	203.	0.001533
99.5	0.1681	203.5	0.01093
100.	0.1708	204.	0.01056
100.5	0.1651	204.5	0.006734
101.	0.167	205.	-0.004809
101.5	0.1603	205.6	-0.000993
102.	0.1644	206.	0.005412
102.5	0.1571	207.5	209.5
103.	0.1579	211.	213.
103.5	0.1542		

SOLUTION

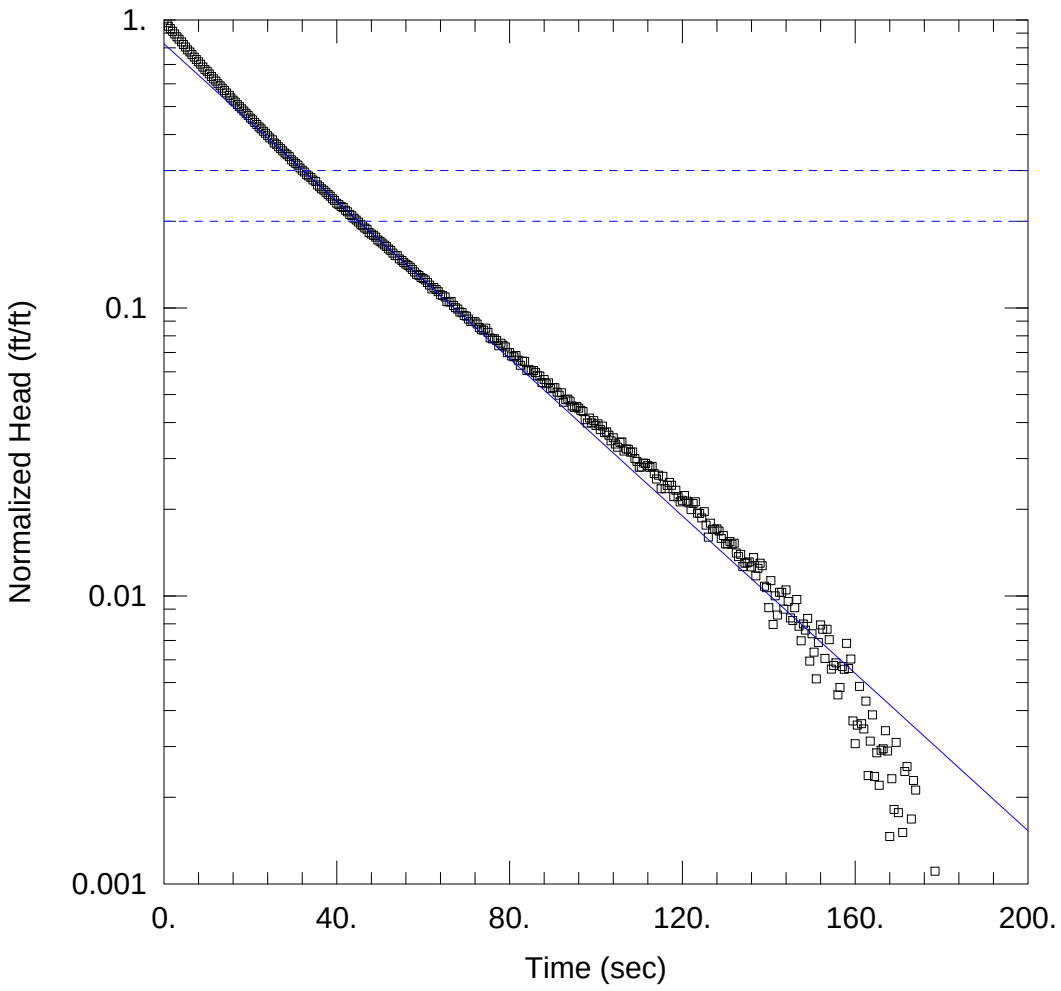
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	4.714	ft/day
y0	3.245	ft

K = 0.001663 cm/sec
T = K*b = 471.4 ft²/day (5.069 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2B rh2 no sand pack.aqt
Date: 01/04/16 Time: 13:40:59

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-2B)

Initial Displacement: 3.715 ft
Total Well Penetration Depth: 40. ft
Casing Radius: 0.083 ft
Static Water Column Height: 138.7 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.723 ft/day
y0 = 3.07 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:41:17

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-2B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3.715 ft
Static Water Column Height: 138.7 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 414

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-8	3.715	103.5	0.1284
0.705	3.631	104.	0.1316
1.	3.531	104.5	0.1252
1.5	3.464	105.	0.122
2.	3.39	105.6	0.1268
2.5	3.32	106.	0.1273
3.001	3.246	106.5	0.1183
3.5	3.184	107.	0.1203
4.085	3.114	107.5	0.12
4.5	3.051	108.	0.1173
5.	2.99	108.5	0.1174
5.5	2.921	109.	0.1114
6.	2.875	109.5	0.1088
6.5	2.815	110.	0.104
7.	2.758	110.5	0.1041
7.5	2.706	111.	0.1075
8.	2.659	111.5	0.1071
8.5	2.607	112.	0.1054
9.	2.55	112.5	0.1038
9.5	2.498	113.	0.1046
10.	2.462	113.5	0.0988
10.5	2.411	114.	0.09455
11.	2.363	114.5	0.09746
11.5	2.318	115.1	0.08743
12.	2.278	115.5	0.09667
12.5	2.232	116.	0.08756
13.	2.194	116.5	0.0899
13.5	2.153	117.	0.09202
14.	2.115	117.5	0.08993
14.5	2.073	118.	0.08211

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.14	2.033	118.5	0.0865
15.5	1.99	119.	0.08204
16.	1.956	119.5	0.07872
16.5	1.926	120.	0.07977
17.	1.888	120.5	0.08289
17.5	1.857	121.	0.07922
18.	1.826	121.5	0.07813
18.5	1.793	122.	0.07411
19.	1.76	122.5	0.07776
19.5	1.733	123.	0.07889
20.	1.695	123.5	0.072
20.5	1.671	124.	0.07186
21.	1.638	124.5	0.06932
21.5	1.61	125.1	0.07287
22.	1.579	125.5	0.06539
22.5	1.556	126.	0.05944
23.	1.526	126.5	0.06643
23.5	1.5	127.	0.06328
24.	1.473	127.5	0.06316
24.5	1.447	128.	0.06354
25.14	1.424	128.5	0.0624
25.52	1.391	129.	0.05885
26.	1.374	129.5	0.0602
26.5	1.348	130.	0.05627
27.	1.328	130.5	0.05634
27.5	1.305	131.	0.05731
28.	1.281	131.5	0.05618
28.5	1.264	132.	0.05663
29.	1.245	132.5	0.05237
29.5	1.214	133.	0.05087
30.	1.195	133.5	0.05179
30.5	1.18	134.	0.04697
31.	1.164	134.5	0.04823
31.5	1.137	135.	0.0484
32.	1.117	135.5	0.04873
32.5	1.101	136.	0.04685
33.	1.078	136.5	0.05049
33.5	1.067	137.	0.04362
34.	1.053	137.5	0.04634
34.5	1.033	138.	0.04828
35.14	1.021	138.5	0.04726
35.52	0.9924	139.	0.04011
36.	0.9793	139.5	0.03969
36.5	0.9634	140.	0.03383
37.	0.9519	140.5	0.04199
37.5	0.9361	141.	0.02956
38.	0.9203	141.5	0.03719
38.5	0.9075	142.	0.03188
39.01	0.8899	142.5	0.03823
39.5	0.8767	143.	0.03823
40.	0.8581	143.5	0.03342
40.5	0.8487	144.	0.03899
41.	0.8353	144.5	0.03555
41.5	0.8289	145.	0.03116
42.	0.8112	145.6	0.03053
42.5	0.8008	146.	0.0338
43.	0.7838	146.5	0.0361
43.5	0.7771	147.	0.02915
44.	0.7608	147.5	0.02596
44.5	0.7498	148.	0.02966
45.	0.7378	148.5	0.02827
45.58	0.7247	149.	0.03103
46.	0.7162	149.5	0.02206
46.5	0.7036	150.	0.02745
47.	0.6965	150.5	0.0237
47.5	0.679	151.	0.01914

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.6707	151.5	0.02559
48.5	0.6639	152.	0.02945
49.	0.6544	152.5	0.02844
49.5	0.6396	153.	0.02254
50.	0.6331	153.5	0.02844
50.5	0.6243	154.	0.02619
51.	0.6144	154.5	0.02069
51.5	0.6076	155.	0.0213
52.	0.5952	155.6	0.02175
52.5	0.5885	156.	0.01684
53.	0.576	156.5	0.01786
53.5	0.565	157.	0.02112
54.	0.5641	157.5	0.02067
54.5	0.5498	158.	0.02543
55.09	0.5431	158.5	0.02079
55.5	0.5346	159.	0.02242
56.	0.5271	159.5	0.01367
56.5	0.5214	160.	0.0114
57.	0.5146	160.5	0.01322
57.5	0.5051	161.	0.01803
58.	0.4948	161.5	0.01338
58.5	0.4858	162.	0.01283
59.	0.482	162.5	0.01602
59.5	0.4738	163.	0.008838
60.	0.4697	163.5	0.01163
60.5	0.4644	164.	0.01435
61.	0.4549	164.5	0.008768
61.5	0.4455	165.	0.0106
62.	0.4323	165.6	0.008176
62.5	0.4371	166.	0.01082
63.	0.4299	166.5	0.01095
63.5	0.4231	167.	0.01264
64.	0.4127	167.5	0.01074
64.5	0.4099	168.	0.00543
65.08	0.4053	168.5	0.008617
65.5	0.3908	169.	0.006736
66.	0.3894	169.5	0.01151
66.5	0.3911	170.	0.006567
67.	0.379	170.5	0.002794
67.5	0.3723	171.	0.005605
68.	0.3679	171.5	0.009124
68.5	0.3594	172.	0.009492
69.	0.3582	172.5	0.003465
69.5	0.3497	173.	0.006242
70.	0.3479	173.5	0.008497
70.5	0.3401	174.	0.007867
71.	0.3334	174.5	0.001091
71.5	0.3335	175.1	0.001712
72.	0.3324	175.5	0.002159
72.5	0.3266	176.	-0.001326
73.	0.3173	176.5	-0.001151
73.5	0.3119	177.	0.001285
74.	0.3108	177.5	0.001785
74.5	0.3159	178.	0.001854
75.	0.3058	178.5	0.00411
75.5	0.2923	179.	-0.002612
76.	0.29	179.5	-0.002659
76.5	0.2905	180.	-0.005425
77.	0.2863	180.5	0.001215
77.5	0.2745	181.	-0.000548
78.	0.2802	181.5	9.3E-5
78.5	0.2754	182.	9.3E-5
79.	0.2721	182.5	0.000215
79.5	0.2598	183.	-0.001801
80.	0.2598	183.5	-0.007752
80.5	0.2528	184.	0.000215

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.2513	184.5	-0.001913
81.5	0.2539	185.1	-0.004061
82.	0.2445	185.5	-0.001913
82.5	0.2348	186.	-0.009304
83.	0.2426	186.5	-0.006371
83.5	0.2423	187.	-0.00836
84.	0.2251	187.5	-0.002486
84.5	0.2271	188.	-0.01182
85.	0.2247	188.5	-0.01483
85.58	0.2251	189.	-0.004174
86.	0.2214	189.5	-0.005936
86.5	0.2159	190.	-0.01089
87.	0.2154	190.5	-0.01094
87.5	0.2046	191.	-0.01051
88.	0.2095	191.5	-0.00869
88.5	0.2024	192.	-0.005064
89.	0.2041	192.5	-0.005064
89.5	0.1948	193.	-0.004679
90.	0.1966	193.5	-0.007952
90.5	0.1964	194.	-0.005936
91.	0.1894	194.5	-0.008582
91.5	0.1849	195.	-0.009699
92.	0.1884	195.5	-0.01419
92.5	0.1747	196.	-0.01051
93.	0.1784	196.5	-0.01064
93.5	0.1793	197.	-0.01089
94.	0.1762	197.5	-0.009955
94.5	0.1696	198.	-0.01816
95.	0.1676	198.5	-0.01083
95.58	0.1688	199.	-0.009699
96.	0.1667	199.5	-0.01616
96.5	0.1637	200.	-0.01678
97.	0.1626	200.5	-0.01502
97.5	0.152	201.	-0.01916
98.	0.148	201.5	-0.01045
98.5	0.154	202.	-0.0144
99.	0.1481	202.5	-0.01847
99.5	0.1508	203.	-0.00907
100.	0.1451	203.5	-0.009444
100.5	0.147	204.	-0.01327
101.	0.1403	204.5	-0.02481
101.5	0.1444	205.	-0.02099
102.	0.1371	205.6	-0.01459
102.5	0.1379	207.	209.1
103.	0.1342	210.5	212.5

SOLUTION

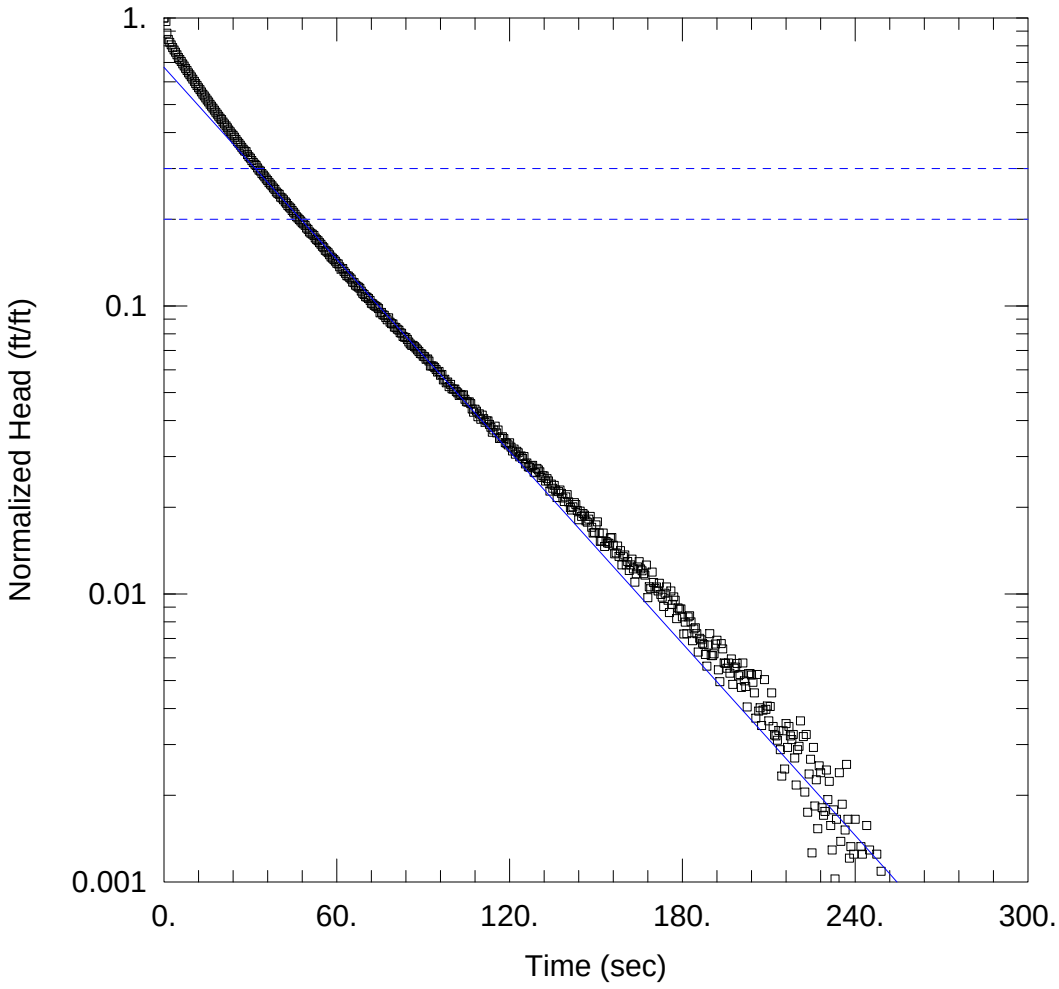
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	4.723	ft/day
y0	3.07	ft

K = 0.001666 cm/sec
T = K*b = 472.3 ft²/day (5.078 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-2B rh3.aqt
Date: 01/04/16 Time: 13:41:51

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-2B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-2B)

Initial Displacement: 4.7 ft
Total Well Penetration Depth: 40. ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.69 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.841 ft/day
y0 = 3.166 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:42:08

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-2B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-2B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 4.7 ft
Static Water Column Height: 38.69 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 542

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-7	4.7	135.5	0.112
0.704	4.568	136.	0.1078
1.001	4.16	136.5	0.1016
1.501	3.959	137.	0.1065
2.001	3.866	137.5	0.1078
2.501	3.787	138.	0.105
3.001	3.707	138.5	0.1012
3.501	3.637	139.	0.09844
4.001	3.571	139.5	0.1021
4.501	3.502	140.	0.104
5.001	3.424	140.5	0.09818
5.501	3.367	141.2	0.09367
6.001	3.316	141.5	0.09191
6.501	3.253	142.	0.09429
7.001	3.201	142.5	0.09747
7.501	3.139	143.	0.09598
8.001	3.087	143.5	0.09158
8.501	3.028	144.	0.085
9.001	2.981	144.5	0.09108
9.501	2.933	145.	0.08739
10.	2.88	145.5	0.08939
10.58	2.829	146.	0.08827
11.	2.778	146.5	0.08426
11.5	2.739	147.	0.08338
12.	2.689	147.5	0.0855
12.5	2.647	148.	0.08739
13.	2.601	148.5	0.08012
13.5	2.556	149.	0.07647
14.	2.52	149.5	0.07685
14.5	2.477	150.	0.08162

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	2.436	150.5	0.08367
15.5	2.401	151.2	0.07647
16.	2.356	151.5	0.07157
16.5	2.323	152.	0.07171
17.	2.285	152.5	0.07647
17.5	2.248	153.	0.06869
18.	2.21	153.5	0.07144
18.5	2.176	154.	0.07061
19.	2.141	154.5	0.0705
19.5	2.109	155.	0.0735
20.	2.084	155.5	0.07376
20.5	2.044	156.	0.06935
21.	2.015	156.5	0.0648
21.59	1.983	157.	0.06529
22.	1.952	157.5	0.06894
22.5	1.919	158.	0.06342
23.	1.892	158.5	0.06647
23.5	1.86	159.	0.05927
24.	1.839	159.5	0.06329
24.5	1.811	160.	0.06422
25.	1.778	160.5	0.05927
25.5	1.746	161.	0.06091
26.	1.725	161.6	0.0567
26.5	1.7	162.1	0.05932
27.	1.671	162.5	0.06208
27.5	1.644	163.	0.0574
28.	1.623	163.5	0.05162
28.5	1.614	164.	0.05519
29.	1.576	164.5	0.05831
29.5	1.55	165.	0.06083
30.	1.531	165.5	0.05745
30.5	1.503	166.	0.05651
31.	1.48	166.5	0.05526
31.59	1.46	167.	0.05462
32.	1.445	167.5	0.0592
32.5	1.417	168.	0.04559
33.	1.392	168.5	0.04974
33.5	1.381	169.	0.04899
34.	1.355	169.5	0.05593
34.5	1.337	170.	0.0515
35.	1.318	170.5	0.04911
35.5	1.297	171.	0.04967
36.	1.28	171.6	0.04815
36.5	1.259	172.	0.05117
37.	1.244	172.5	0.04677
37.5	1.227	173.	0.04578
38.	1.207	173.5	0.04252
38.5	1.194	174.	0.04728
39.	1.169	174.5	0.04967
39.5	1.157	175.	0.04471
40.	1.147	175.5	0.0405
40.5	1.12	176.	0.04811
41.	1.113	176.5	0.04322
41.52	1.099	177.	0.04589
42.12	1.08	177.5	0.04471
42.5	1.068	178.	0.03857
43.	1.049	178.5	0.04201
43.5	1.037	179.	0.04158
44.	1.026	179.5	0.04169
44.5	1.008	180.	0.03912
45.	0.994	180.5	0.03411
45.5	0.9792	181.	0.03749
46.	0.959	181.6	0.03418
46.5	0.9489	182.	0.03912
47.	0.9372	182.5	0.03949
47.5	0.9262	183.	0.03762

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.9135	183.5	0.03234
48.5	0.9053	184.	0.03556
49.	0.8944	184.5	0.03586
49.5	0.8762	185.	0.03422
50.	0.8663	185.5	0.02953
50.5	0.8497	186.	0.03297
51.	0.8403	186.5	0.03259
51.5	0.8344	187.	0.03167
52.09	0.8259	187.5	0.03135
52.5	0.8093	188.	0.02896
53.	0.7987	188.5	0.02638
53.5	0.7919	189.	0.03122
54.	0.7793	189.5	0.03422
54.5	0.7694	190.	0.02869
55.	0.7569	190.5	0.02869
55.5	0.7482	191.	0.02909
56.	0.7333	191.5	0.03147
56.5	0.7278	192.	0.03246
57.	0.7195	192.5	0.02563
57.5	0.7072	193.	0.02331
58.	0.6949	193.5	0.0316
58.5	0.6887	194.	0.03028
59.	0.6809	194.5	0.02708
59.5	0.6723	195.	0.02696
60.	0.6612	195.5	0.02594
60.5	0.6575	196.	0.02708
61.	0.6423	196.5	0.02494
61.5	0.6302	197.	0.02796
62.09	0.6336	197.5	0.0228
62.5	0.6194	198.	0.02594
63.	0.6095	198.5	0.02619
63.5	0.598	199.	0.02696
64.	0.5969	199.5	0.02444
64.5	0.5888	200.	0.02469
65.	0.5823	200.5	0.02225
65.5	0.5686	201.	0.02708
66.	0.5659	201.5	0.02344
66.5	0.5547	202.	0.02243
67.	0.5502	202.5	0.01905
67.5	0.546	203.	0.02481
68.	0.541	203.5	0.02487
68.5	0.5293	204.	0.02456
69.	0.5198	204.5	0.02318
69.5	0.5149	205.	0.02131
70.	0.5059	205.5	0.01741
70.5	0.5038	206.	0.02469
71.	0.4987	206.5	0.01842
71.58	0.4912	207.	0.01891
72.	0.4803	207.5	0.01641
72.5	0.4778	208.	0.01855
73.	0.472	208.5	0.02369
73.5	0.4683	209.	0.01866
74.	0.4654	209.5	0.01917
74.5	0.46	210.	0.01703
75.	0.4444	210.5	0.01911
75.5	0.4465	211.	0.02131
76.	0.438	211.5	0.01628
76.5	0.4363	212.	0.01522
77.	0.4282	212.5	0.0151
77.5	0.4208	213.	0.01459
78.	0.4273	213.5	0.01578
78.5	0.4128	214.	0.01353
79.	0.4078	214.5	0.01095
79.5	0.4068	215.	0.01573
80.	0.3969	215.5	0.01158
80.5	0.3956	216.	0.01666

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.39	216.5	0.01378
81.59	0.387	217.	0.01628
82.	0.3793	217.5	0.0151
82.5	0.3779	218.	0.01466
83.	0.3685	218.5	0.01528
83.5	0.3661	219.	0.01265
84.	0.3649	219.5	0.01019
84.5	0.3596	220.	0.01353
85.	0.3521	220.5	0.01389
85.5	0.3469	221.	0.01703
86.	0.3427	221.5	0.003171
86.5	0.3431	222.	0.01502
87.	0.3393	222.5	0.009641
87.5	0.3354	223.	0.01528
88.	0.3306	223.5	0.008201
88.5	0.3265	224.	0.01114
89.	0.3213	224.5	0.01253
89.5	0.3198	225.	0.005929
90.	0.3144	225.5	0.01378
90.5	0.3132	226.	0.008626
91.	0.3068	226.5	0.01064
91.59	0.3077	227.	0.007195
92.	0.3024	227.5	0.01189
92.5	0.2908	228.	0.01126
93.	0.2912	228.5	0.008508
93.5	0.2903	229.	0.008004
94.	0.2871	229.5	0.008254
94.5	0.2828	230.	0.0115
95.	0.2769	230.5	0.009072
95.5	0.2784	231.	0.0105
96.	0.2699	231.5	0.00738
96.5	0.2716	232.	0.006064
97.	0.2602	232.5	0.008368
97.5	0.2616	233.	0.004811
98.	0.2543	233.5	0.00776
98.5	0.256	234.	0.003987
99.	0.2464	234.5	0.01126
99.5	0.2509	235.	0.006503
100.	0.242	235.5	0.008748
100.5	0.2415	236.	0.001422
101.	0.2418	236.5	0.007121
101.5	0.237	237.	0.01202
102.	0.2345	237.5	0.00776
102.5	0.2297	238.	0.005685
103.	0.2316	238.5	0.006234
103.5	0.23	239.	0.002419
104.	0.231	239.5	0.00587
104.5	0.2229	240.	0.00776
105.	0.2184	240.5	0.000462
105.5	0.2177	241.	-0.000409
106.	0.2182	241.5	0.002675
106.5	0.2153	242.	0.006234
107.	0.206	242.5	0.00587
107.5	0.2008	243.	-0.001346
108.	0.2057	243.5	0.004611
108.5	0.2027	244.	0.00738
109.	0.1939	244.5	0.004172
109.5	0.1982	245.	0.006064
110.	0.1899	245.5	-0.001781
110.5	0.1962	246.	-0.000281
111.	0.191	246.5	0.003857
111.5	0.1853	247.	-0.001592
112.1	0.1874	247.5	0.00587
112.5	0.1875	248.	-0.004678
113.	0.1822	248.5	0.003363
113.5	0.178	249.	0.005118

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	0.1712	249.5	0.00299
114.5	0.1742	250.	-0.002603
115.	0.1797	250.5	0.001855
115.5	0.1704	251.	0.003857
116.	0.1744	251.5	0.002858
116.5	0.1628	252.	0.00261
117.	0.1634	252.5	-0.004172
117.5	0.1651	253.	-0.00241
118.	0.1628	253.5	0.000853
118.5	0.1575	254.	0.002736
119.	0.1567	254.5	0.000596
119.5	0.1548	255.	-0.001155
120.	0.1573	255.5	-0.000777
120.5	0.152	256.	-0.003738
121.	0.1474	256.5	0.000983
121.6	0.1498	257.	-0.003099
122.	0.1437	257.5	-0.007861
122.5	0.147	258.	-0.002603
123.	0.1454	258.5	0.00211
123.5	0.1406	259.	-0.002603
124.	0.1417	259.5	0.001466
124.5	0.1388	260.	-0.002093
125.	0.141	260.5	-0.003045
125.5	0.133	261.	-0.000409
126.	0.1338	261.5	0.001231
126.5	0.1299	262.	0.000724
127.	0.1294	262.5	-0.001971
127.5	0.1309	263.	-0.004983
128.	0.1313	263.5	0.001231
128.5	0.1243	264.	-0.01138
129.	0.1239	264.5	-0.004613
129.5	0.1283	265.	-0.007497
130.	0.1268	265.5	-0.001405
130.5	0.1248	266.	-0.008813
131.	0.1193	266.5	-0.002786
131.6	0.1208	267.	-0.006049
132.	0.1207	267.6	-0.01095
132.5	0.1159	268.2	-0.01131
133.	0.1181	268.5	-0.000281
133.5	0.116	269.	-0.01032
134.	0.107	269.5	-0.005052
134.5	0.1132	270.	-0.009
135.	0.1094	270.5	0.000596

SOLUTION

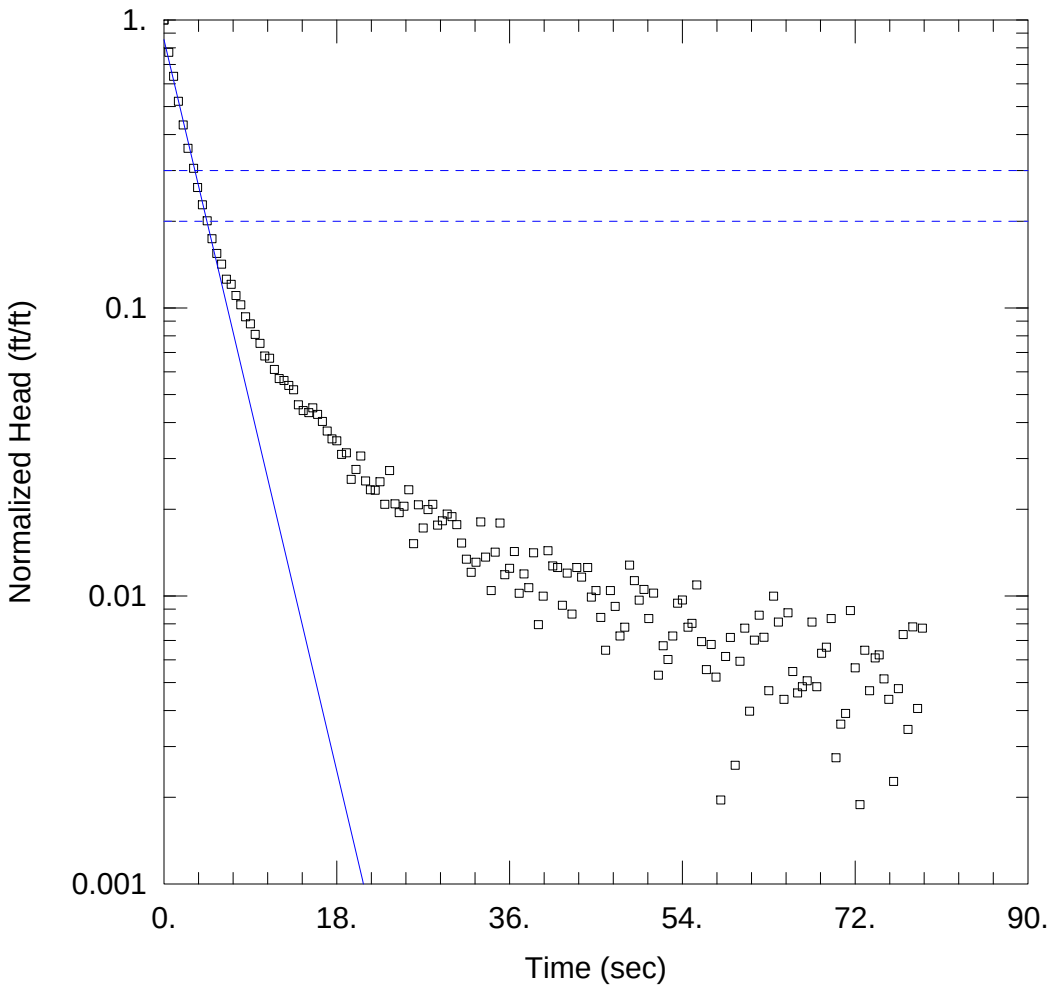
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.841	ft/day
y0	3.166	ft

K = 0.001355 cm/sec
T = K*b = 384.1 ft²/day (4.13 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-3C rh1.aqt
Date: 01/04/16 Time: 13:43:21

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-3C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3C)

Initial Displacement: 5.026 ft
Total Well Penetration Depth: 77. ft
Casing Radius: 0.083 ft
Static Water Column Height: 77.88 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 51.98 ft/day
y0 = 4.29 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:43:35

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-3C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-3C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 5.026 ft
Static Water Column Height: 77.88 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 77. ft

No. of Observations: 161

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-6	5.026	40.5	0.06387
0.5	3.879	41.	0.06308
1.	3.201	41.5	0.04664
1.5	2.622	42.	0.06032
2.	2.17	42.5	0.04347
2.5	1.801	43.	0.06308
3.084	1.535	43.5	0.0584
3.5	1.316	44.13	0.06308
4.	1.147	44.52	0.04977
4.5	1.008	45.	0.05249
5.	0.874	45.5	0.04232
5.5	0.777	46.	0.03255
6.	0.7128	46.5	0.05249
6.5	0.6327	47.	0.04625
7.	0.6067	47.5	0.03647
7.5	0.5547	48.	0.03915
8.	0.5156	48.5	0.06426
8.5	0.468	49.	0.0568
9.	0.4425	49.5	0.04858
9.5	0.4065	50.	0.05293
10.	0.3788	50.5	0.04194
10.5	0.3424	51.	0.05137
11.	0.3361	51.5	0.02668
11.5	0.3072	52.	0.03374
12.	0.2856	52.5	0.03021
12.5	0.2813	53.	0.03647
13.	0.2704	53.5	0.04742
13.5	0.2614	54.	0.04862
14.	0.2316	54.59	0.03915
14.5	0.2211	55.	0.04036

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.09	0.2176	55.5	0.05486
15.5	0.2262	56.	0.0349
16.	0.2145	56.5	0.02787
16.5	0.2027	57.	0.0341
17.	0.1878	57.5	0.02628
17.5	0.1765	58.	0.009834
18.	0.1738	58.5	0.03098
18.5	0.1558	59.	0.03605
19.	0.1577	59.5	0.01297
19.5	0.1276	60.	0.02979
20.	0.1382	60.5	0.03883
20.5	0.1538	61.	0.02
21.	0.126	61.5	0.03529
21.5	0.1174	62.	0.0431
22.	0.1171	62.5	0.03609
22.5	0.1253	63.	0.02354
23.	0.1045	63.5	0.05016
23.5	0.137	64.	0.04079
24.08	0.1049	64.58	0.02197
24.5	0.09784	65.	0.04389
25.	0.103	65.5	0.02747
25.5	0.1175	66.	0.02315
26.	0.07635	66.5	0.02433
26.5	0.1042	67.	0.02548
27.	0.08653	67.5	0.04079
27.5	0.1002	68.	0.02433
28.	0.1046	68.5	0.03179
28.5	0.08849	69.	0.03334
29.	0.09164	69.5	0.04195
29.5	0.09669	70.	0.01378
30.	0.09478	70.5	0.01803
30.5	0.08889	71.	0.01964
31.	0.07675	71.5	0.04469
31.5	0.06737	72.	0.02829
32.	0.06071	72.5	0.009475
32.5	0.06582	73.	0.03257
33.	0.09084	73.5	0.02354
33.5	0.06853	74.08	0.0306
34.08	0.05249	74.5	0.03135
34.5	0.07128	75.	0.02589
35.	0.09006	75.5	0.02197
35.5	0.05954	76.	0.01141
36.	0.06265	76.5	0.02394
36.5	0.07169	77.	0.03689
37.	0.05132	77.5	0.01729
37.5	0.05994	78.	0.03924
38.	0.05366	78.5	0.02043
38.5	0.07091	79.	0.03883
39.	0.03997	80.5	82.5
39.5	0.05015	84.08	86.
40.	0.07211		

SOLUTION

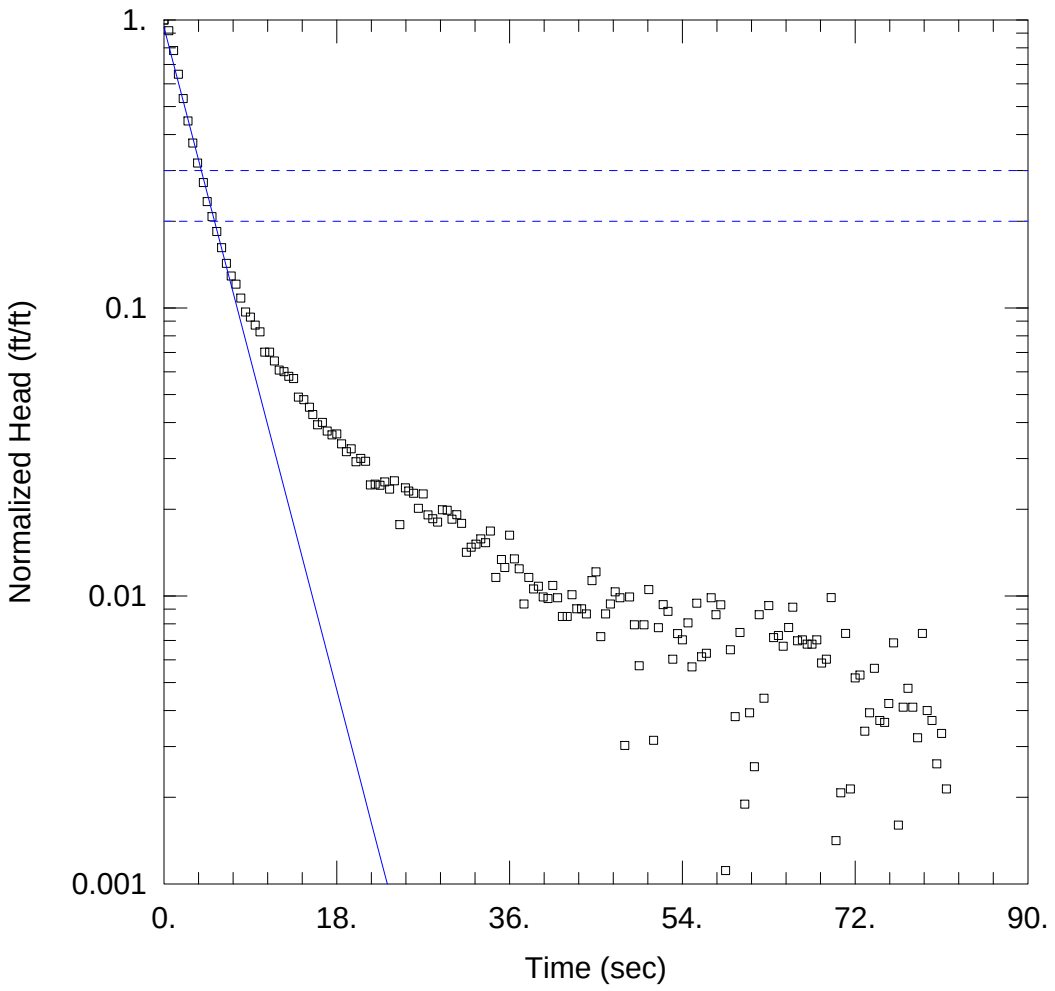
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.378

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	51.98	ft/day
y0	4.29	ft

K = 0.01834 cm/sec
T = K*b = 5198.2 ft²/day (55.89 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-3C rh2.aqt
Date: 01/04/16 Time: 13:44:03

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-3C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3C)

Initial Displacement: 6.54 ft
Total Well Penetration Depth: 77. ft
Casing Radius: 0.083 ft
Static Water Column Height: 74.88 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 47.1 ft/day
y0 = 6.159 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:44:18

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-3C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-3C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 6.54 ft
Static Water Column Height: 74.88 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 77. ft

No. of Observations: 166

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-8	6.54	41.5	0.05545
0.5	5.996	42.	0.05545
1.	5.119	42.5	0.06603
1.5	4.237	43.	0.05896
2.	3.489	43.5	0.05896
2.5	2.914	44.	0.05664
3.	2.443	44.59	0.07387
3.515	2.083	45.	0.07934
4.1	1.782	45.5	0.04722
4.5	1.53	46.	0.05664
5.	1.356	46.5	0.06132
5.5	1.204	47.	0.06756
6.	1.058	47.5	0.06447
6.5	0.9337	48.	0.01979
7.	0.8437	48.5	0.06484
7.5	0.7905	49.	0.05194
8.	0.7072	49.5	0.03742
8.5	0.6327	50.	0.05194
9.	0.6079	50.5	0.06881
9.5	0.5698	51.	0.02061
10.	0.5401	51.5	0.05076
10.5	0.4592	52.	0.06096
11.	0.4592	52.5	0.05781
11.5	0.4279	53.	0.03941
12.	0.3978	53.5	0.04841
12.5	0.3926	54.	0.04605
13.	0.3786	54.59	0.05269
13.5	0.3719	55.	0.03708
14.	0.3207	55.5	0.06172
14.57	0.314	56.	0.04021

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.15	0.2956	56.5	0.04135
15.5	0.2788	57.	0.06447
16.	0.2569	57.5	0.05625
16.5	0.262	58.	0.06092
17.	0.2444	58.5	0.007276
17.5	0.237	59.	0.04255
18.	0.2389	59.5	0.0249
18.5	0.2205	60.	0.04879
19.	0.2072	60.5	0.01238
19.5	0.2119	61.	0.02569
20.	0.1912	61.5	0.01669
20.5	0.1963	62.	0.05624
21.	0.192	62.5	0.02884
21.5	0.1587	63.	0.06055
22.	0.1599	63.5	0.04689
22.5	0.1583	64.	0.04763
23.	0.1626	64.5	0.04374
23.5	0.1536	65.08	0.05079
24.	0.1642	65.5	0.05977
24.57	0.1157	66.	0.04567
25.15	0.1552	66.5	0.04605
25.5	0.1513	67.	0.04448
26.	0.1486	67.5	0.04448
26.5	0.1317	68.	0.04605
27.	0.1478	68.5	0.03825
27.5	0.1251	69.	0.03941
28.	0.1212	69.5	0.06452
28.5	0.118	70.	0.009244
29.	0.1302	70.5	0.01355
29.5	0.1298	71.	0.04844
30.	0.1208	71.5	0.01397
30.5	0.1251	72.	0.03394
31.	0.1169	72.5	0.03473
31.5	0.09263	73.	0.02218
32.	0.09653	73.5	0.02569
32.5	0.09889	74.	0.03668
33.	0.1032	74.57	0.02416
33.5	0.1001	75.07	0.02378
34.	0.1099	75.5	0.02767
34.57	0.0758	76.	0.04492
35.15	0.08754	76.5	0.01047
35.5	0.08206	77.	0.02688
36.	0.1063	77.5	0.03122
36.5	0.08791	78.	0.02688
37.	0.08128	78.5	0.02103
37.5	0.06132	79.	0.04844
38.	0.07582	79.5	0.02615
38.5	0.06914	80.	0.02416
39.	0.07071	80.5	0.01709
39.5	0.06484	81.	0.02179
40.	0.06405	81.5	0.01398
40.5	0.0711	83.	85.
41.	0.06447	86.5	88.5

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.378

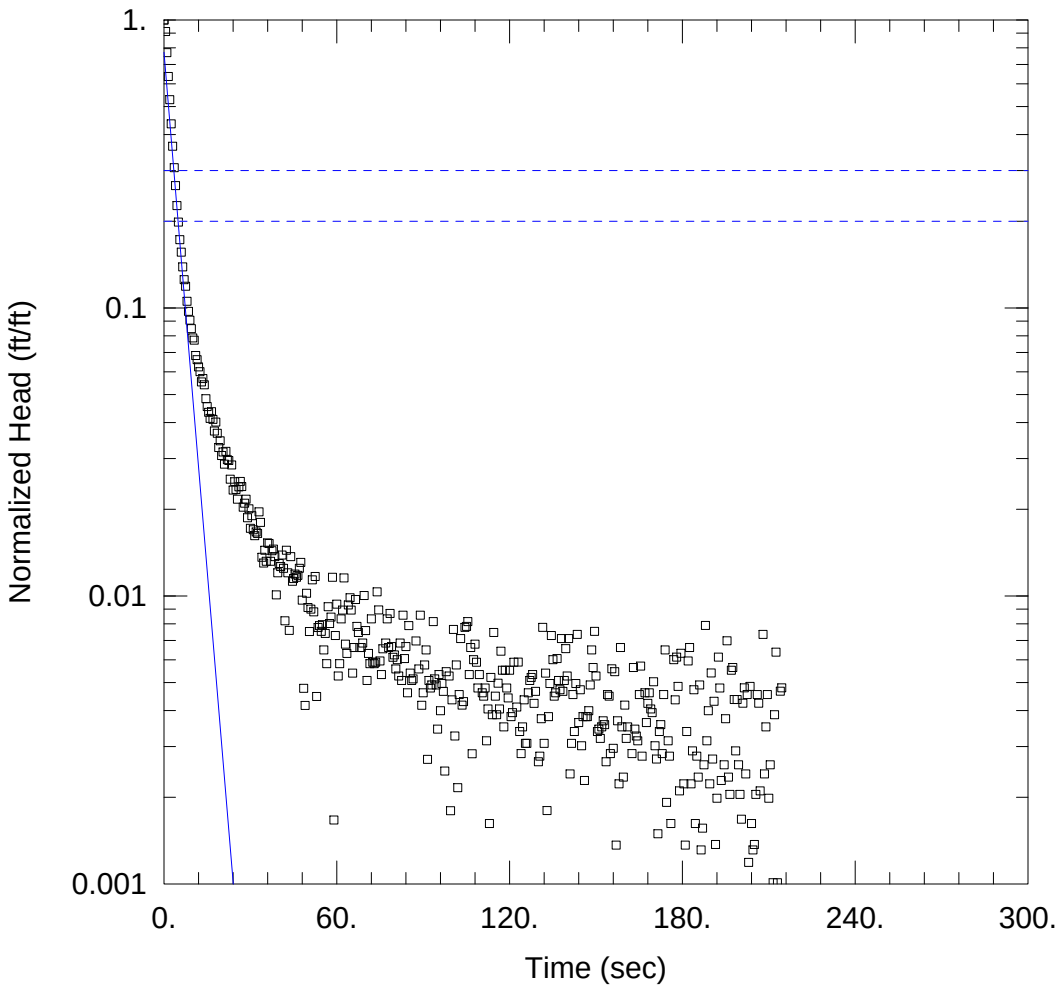
VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate

K	47.1	ft/day
y0	6.159	ft

K = 0.01662 cm/sec
T = K*b = 4709.9 ft²/day (50.64 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-3C rh3.aqt
Date: 01/04/16 Time: 13:44:38

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-3C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-3C)

Initial Displacement: 6.42 ft
Total Well Penetration Depth: 77. ft
Casing Radius: 0.083 ft
Static Water Column Height: 74.88 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 44.23 ft/day
y0 = 4.955 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:44:52

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-3C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-3C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 6.42 ft
Static Water Column Height: 74.88 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 77. ft

No. of Observations: 432

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-9	6.42	108.	0.04364
0.563	5.85	108.5	0.03777
1.	4.945	109.	0.03074
1.5	4.087	109.5	0.03425
2.	3.392	110.	-0.004171
2.5	2.797	110.5	0.02957
3.	2.337	111.	0.0288
3.583	1.97	111.5	0.03074
4.	1.706	112.	0.02017
4.5	1.455	112.5	0.02601
5.	1.275	113.	0.01041
5.5	1.108	113.5	0.03347
6.	1.002	114.	0.02484
6.5	0.891	114.5	0.04795
7.	0.8051	115.1	0.0288
7.5	0.7637	115.5	0.02484
8.	0.6766	116.	0.03193
8.5	0.6249	116.5	0.026
9.	0.5819	117.	0.04129
9.5	0.544	117.5	0.03543
10.	0.5052	118.	0.02252
10.5	0.4962	118.5	0.03543
11.	0.4387	119.	0.03074
11.5	0.4246	119.5	0.02841
12.	0.4008	120.	0.03543
12.5	0.3855	120.5	0.02447
13.	0.3554	121.	0.02526
13.5	0.3648	121.5	0.03777
14.	0.3472	122.	0.005274
14.58	0.3105	122.5	0.0264

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.2917	123.	0.03781
15.5	0.2787	123.5	0.02172
16.	0.2655	124.	0.01821
16.5	0.2799	124.5	0.02252
17.	0.2635	125.1	0.02799
17.5	0.24	125.5	0.01976
18.	0.2576	126.	0.01976
18.5	0.2357	126.5	0.02957
19.	0.2103	127.	0.03266
19.5	0.222	127.5	0.03347
20.	0.1974	128.	0.03425
20.5	0.2028	128.5	0.02719
21.	0.184	129.	0.02994
21.5	0.204	129.5	-0.001814
22.	0.1907	130.	0.01705
22.5	0.1896	130.5	0.01783
23.01	0.1633	131.	0.02407
23.5	0.1829	131.5	0.04991
24.	0.1497	132.	0.01976
24.58	0.1598	132.5	0.03463
25.	0.1504	133.	0.01155
25.5	0.1391	133.5	0.02447
26.	0.1536	134.	0.03188
26.5	0.1602	134.5	0.0468
27.	0.154	135.1	0.03858
27.5	0.1305	135.5	0.0288
28.	0.1348	136.	0.02957
28.5	0.1391	136.5	0.03891
29.	0.1199	137.	0.03266
29.5	0.1289	137.5	0.03032
30.	0.1102	138.	0.04563
30.5	0.1219	138.5	0.02994
31.	0.109	139.	0.03266
31.5	0.1039	139.5	0.04212
32.	0.107	140.	0.03385
32.5	0.1058	140.5	0.04563
33.	0.1258	141.	0.01547
33.5	0.1156	141.5	0.01976
34.	0.08747	142.	0.02916
34.63	0.08351	142.5	0.02172
35.02	0.09254	143.	0.03188
35.5	0.08472	143.5	0.04721
36.	0.09806	144.	0.02332
36.5	0.09764	144.6	0.03032
37.	0.08468	145.	0.01938
37.5	0.09216	145.5	0.02447
38.	0.09333	146.	0.01467
38.5	0.08784	146.5	0.02447
39.	0.06474	147.	0.02445
39.5	0.07727	147.5	0.02565
40.	0.08316	148.	0.0315
40.5	0.0812	148.5	0.0417
41.	0.08903	149.	0.0362
41.5	0.08003	149.5	0.04838
42.	0.05259	150.	0.03385
42.5	0.09255	150.5	0.02172
43.	0.07727	151.	0.02213
43.5	0.0487	151.5	0.02055
44.	0.08786	152.	0.02252
44.63	0.07215	152.5	0.02367
45.02	0.07376	153.	0.02293
45.5	0.07647	153.5	0.01705
46.	0.07453	154.	0.02916
46.5	0.07569	154.6	0.0288
47.	0.08003	155.	0.01821
47.5	0.08392	155.5	0.03585

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.06202	156.	0.01899
48.5	0.03066	156.5	0.03503
49.	0.02676	157.	0.008753
49.5	0.06555	157.5	0.02367
50.	0.05848	158.	0.01428
50.5	0.0483	158.5	0.04248
51.	0.05773	159.	0.02252
51.5	0.073	159.5	0.01507
52.	0.05654	160.	0.0268
52.5	0.07495	160.5	0.02055
53.	0.02874	161.	0.02252
53.5	0.04988	161.5	-0.01395
54.	0.05067	162.	0.005671
54.63	0.04833	162.5	0.01821
55.02	0.05103	163.	0.0362
55.5	0.04167	163.5	0.02213
56.	0.04755	164.	0.02095
56.5	0.03734	164.5	0.02017
57.	0.05889	165.1	0.02916
57.5	0.05146	165.5	0.03662
58.	0.0542	166.	0.01783
58.5	0.07456	166.5	0.000582
59.	0.0107	167.	0.02957
59.5	0.04678	167.5	0.02332
60.	0.06008	168.	0.02719
60.5	0.03382	168.5	0.02957
61.	0.03734	169.	0.02601
61.5	0.05343	169.5	0.02526
62.	0.05733	170.	0.03234
62.5	0.07418	170.5	0.01938
63.	0.04364	171.	0.01741
63.5	0.04051	171.5	0.009592
64.	0.05971	172.	0.02172
64.64	0.06323	172.5	0.02293
65.02	0.05733	173.	0.01821
65.5	0.03463	173.5	0.02918
66.	0.04247	174.	0.04167
66.5	0.06241	174.5	0.01232
67.	0.05029	175.1	0.02017
67.5	0.04793	175.5	0.01783
68.	0.04247	176.	0.01041
68.5	0.04247	176.5	-0.02923
69.	0.04403	177.	0.03858
69.5	0.06442	177.5	0.02799
70.	0.04869	178.	0.03936
70.5	0.03266	178.5	0.03116
71.	0.04051	179.	0.01351
71.5	0.03736	179.5	0.04056
72.	0.05343	180.	-0.007627
72.5	0.03777	180.5	0.01428
73.	0.03736	181.	0.008753
73.5	0.03777	181.5	0.02172
74.	0.06632	182.	0.03819
74.58	0.05738	182.5	0.04248
75.	0.03815	183.	0.01428
75.5	0.03425	183.5	0.01859
76.	0.04208	184.	0.03032
76.5	0.003275	184.5	0.01041
77.	0.04403	185.	0.01783
77.5	0.05343	185.5	0.01507
78.	0.04247	186.	0.03151
78.5	0.05579	186.5	0.008425
79.	0.04285	187.	0.01003
79.5	0.03932	187.5	0.01664
80.	0.04009	188.	0.0507
80.5	0.03582	188.5	0.02017

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.03854	189.	0.02565
81.5	0.03385	189.5	0.01428
82.	0.04403	190.	0.03468
82.5	0.03266	190.5	0.01741
83.	0.055	191.	0.02766
83.5	0.03891	191.5	0.008799
84.	0.04285	192.	0.01273
84.58	0.02957	192.5	0.03936
85.	0.05067	193.	0.03074
85.5	0.03463	193.5	0.01467
86.	0.03266	194.	0.00297
86.5	0.03306	194.5	0.01664
87.	-0.001424	195.	0.02407
87.5	0.04479	195.5	0.04483
88.	0.003275	196.	0.01507
88.5	0.03582	196.5	0.01313
89.	0.055	197.	0.03546
89.5	0.02677	197.5	0.03623
90.	0.02957	198.	0.02804
90.5	0.03698	198.5	0.01859
91.	0.04167	199.	0.02804
91.5	0.01739	199.5	0.01664
92.	0.03266	200.	0.01313
92.5	0.03074	200.5	0.01078
93.	0.0315	201.	0.02723
93.5	0.05227	201.5	0.03077
94.	0.03306	202.	0.01547
94.5	0.0315	202.5	0.02918
95.	0.02213	203.	0.007624
95.5	0.03425	203.5	0.03116
96.	0.02565	204.	0.01041
96.5	0.03188	204.5	0.008425
97.	0.02994	205.	0.008799
97.5	0.01583	205.5	0.01313
98.	0.03503	206.	0.02916
98.5	-0.001424	206.5	0.02723
99.	0.03385	207.	0.01351
99.5	0.01152	207.5	0.005701
100.	0.02799	208.	0.04721
100.5	0.04911	208.5	0.01547
101.	0.02095	209.	0.02252
101.5	0.03698	209.5	0.02916
102.	0.01387	210.	0.01273
102.5	0.02916	210.5	0.01664
103.	0.04563	211.	0.005305
103.5	0.0268	211.5	0.00648
104.	0.02757	212.	0.02484
104.5	0.04991	212.5	0.04094
105.1	0.05029	213.	0.00648
105.5	0.05227	213.5	-0.01311
106.	0.03425	214.	0.02997
106.5	0.04247	214.5	0.03077
107.	0.01818	216.	218.
107.5	0.03854	219.7	221.5

SOLUTION

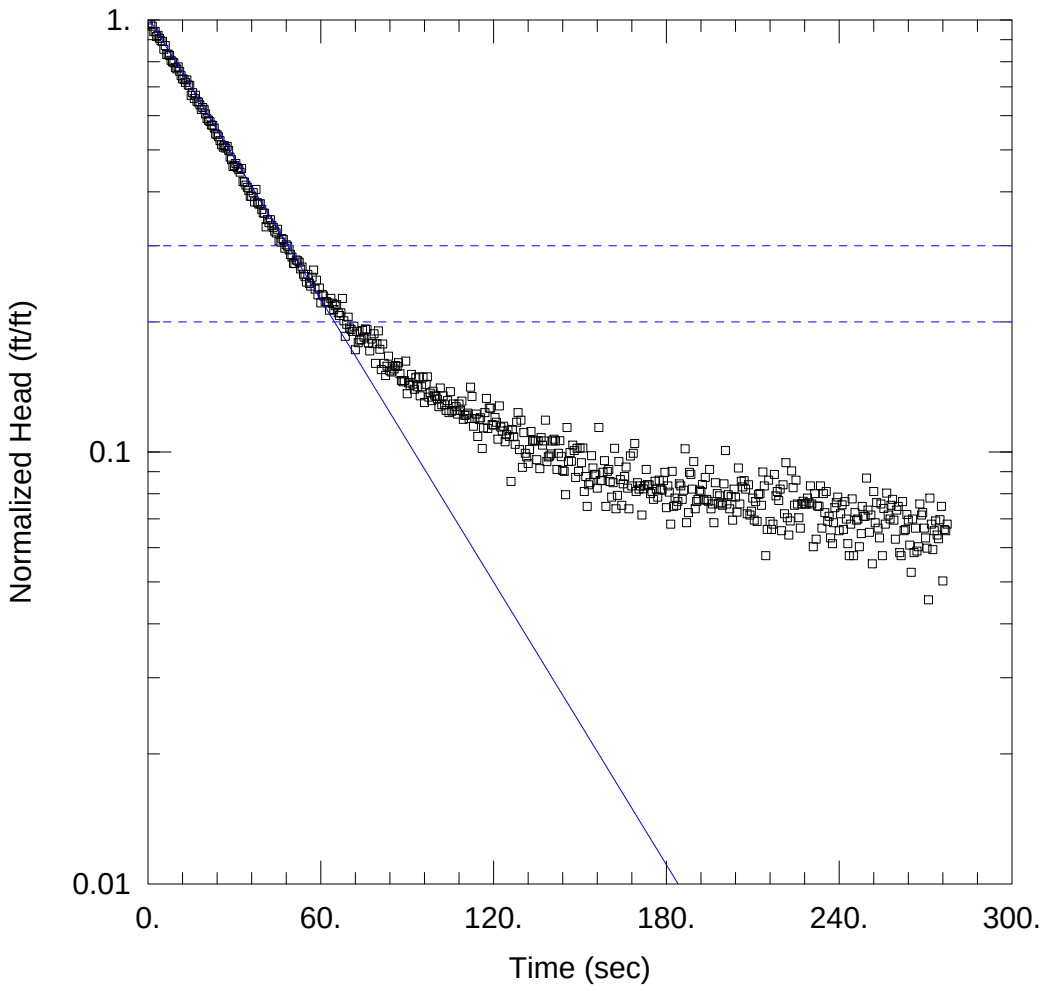
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.378

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	44.23	ft/day
y0	4.955	ft

K = 0.0156 cm/sec
T = K*b = 4423.2 ft²/day (47.56 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4A rh1.aqt
Date: 01/04/16 Time: 13:45:50

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4A)

Initial Displacement: 0.975 ft
Total Well Penetration Depth: 12.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.58 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.297 ft/day
y0 = 0.9904 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:46:01

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.975 ft
Static Water Column Height: 7.58 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 12.5 ft

No. of Observations: 566

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-11	0.9585	141.5	0.1034
0.5	0.9754	142.	0.08882
1.	0.9506	142.5	0.09682
1.5	0.9431	143.	0.1035
2.	0.9159	143.5	0.09508
2.5	0.9169	144.	0.08836
3.	0.892	144.5	0.08789
3.5	0.8977	145.	0.07761
4.	0.8836	145.5	0.111
4.5	0.8724	146.	0.09261
5.082	0.8695	146.6	0.09724
5.5	0.8339	147.	0.09277
6.	0.8503	147.5	0.1011
6.5	0.8105	148.	0.09823
7.	0.8124	148.5	0.08511
7.5	0.8067	149.	0.09936
8.	0.7861	149.5	0.08789
8.5	0.7791	150.	0.0996
9.	0.7763	150.5	0.09208
9.5	0.7557	151.	0.0996
10.	0.751	151.5	0.07898
10.5	0.7594	152.	0.08552
11.	0.7411	152.5	0.07293
11.5	0.7243	153.	0.08184
12.	0.7121	153.5	0.08274
12.5	0.7102	154.	0.09553
13.	0.699	154.5	0.08946
13.5	0.7079	155.	0.08652
14.	0.6896	155.5	0.08652
14.5	0.6872	156.	0.08039

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.6521	156.6	0.111
15.5	0.662	157.	0.08369
16.08	0.6417	157.5	0.08369
16.5	0.6526	158.	0.08746
17.	0.6315	158.5	0.0931
17.5	0.6291	159.	0.07293
18.	0.6203	159.5	0.08789
18.5	0.6052	160.	0.08882
19.	0.6113	160.5	0.08321
19.5	0.6048	161.	0.07665
20.	0.5907	161.5	0.08274
20.5	0.5757	162.	0.09936
21.	0.5711	162.5	0.07199
21.5	0.5673	163.	0.07733
22.	0.5569	163.5	0.09261
22.5	0.5557	164.	0.08417
23.	0.5476	164.5	0.07335
23.5	0.5312	165.	0.08224
24.	0.5288	165.5	0.08552
24.5	0.5227	166.	0.08994
25.	0.5125	166.6	0.08039
25.5	0.5012	167.	0.07199
26.14	0.4946	167.5	0.09539
26.52	0.4988	168.	0.08132
27.	0.4923	168.5	0.09682
27.5	0.4965	169.	0.102
28.	0.4862	169.5	0.07898
28.5	0.4693	170.	0.08274
29.	0.4628	170.5	0.07998
29.5	0.4464	171.	0.08132
30.	0.4487	171.5	0.06963
30.5	0.4534	172.	0.0801
31.	0.4436	172.5	0.08132
31.5	0.4389	173.	0.08882
32.	0.4333	173.5	0.08184
32.5	0.4418	174.	0.08184
33.	0.4117	174.5	0.07806
33.5	0.4108	175.	0.07898
34.	0.4042	175.5	0.07571
34.5	0.3995	176.1	0.0834
35.	0.3925	176.5	0.07998
35.5	0.3808	177.	0.07665
36.	0.3807	177.5	0.08387
36.59	0.3883	178.	0.07998
37.	0.3695	178.5	0.07947
37.5	0.3948	179.	0.08369
38.	0.3681	179.5	0.08746
38.5	0.3653	180.	0.07242
39.	0.3663	180.5	0.08132
39.5	0.355	181.	0.07867
40.	0.3484	181.5	0.06636
40.5	0.348	182.	0.08789
41.	0.3236	182.5	0.07293
41.5	0.3362	183.	0.07621
42.	0.3307	183.5	0.07335
42.5	0.3362	184.	0.07479
43.	0.326	184.5	0.08224
43.5	0.3227	185.	0.08132
44.	0.3161	185.5	0.07571
44.5	0.3133	186.	0.07947
45.	0.3193	186.5	0.09911
45.5	0.3001	187.	0.06684
46.14	0.2982	187.7	0.07057
46.52	0.3039	188.	0.08746
47.	0.3025	188.5	0.08652
47.5	0.2889	189.	0.07998

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.2941	189.5	0.09261
48.5	0.2917	190.	0.07199
49.	0.2861	190.5	0.07479
49.5	0.2791	191.	0.07571
50.	0.2753	191.5	0.07947
50.5	0.2664	192.	0.07898
51.	0.266	192.5	0.08197
51.5	0.2711	193.	0.07541
52.	0.2701	193.5	0.08511
52.5	0.2679	194.	0.07571
53.	0.2585	194.5	0.07492
53.5	0.2613	195.	0.08882
54.	0.2514	195.5	0.07199
54.5	0.2482	196.	0.07384
55.	0.2411	196.5	0.06684
55.5	0.2511	197.	0.08274
56.08	0.2392	197.7	0.07806
56.5	0.236	198.	0.07384
57.	0.2472	198.5	0.07714
57.5	0.2571	199.	0.07436
58.	0.2323	199.5	0.07335
58.5	0.2435	200.	0.08224
59.	0.2252	200.5	0.09823
59.5	0.2336	201.	0.07384
60.	0.2158	201.5	0.07761
60.5	0.2257	202.	0.07199
61.	0.2238	202.5	0.07683
61.5	0.2173	203.	0.06778
62.	0.2173	203.5	0.07998
62.5	0.2158	204.	0.07665
63.	0.2074	204.5	0.07074
63.5	0.221	205.	0.08946
64.	0.2154	205.5	0.07384
64.5	0.2083	206.	0.0834
65.	0.2126	206.5	0.0809
65.5	0.214	207.	0.08369
66.08	0.2046	207.5	0.07998
66.5	0.2018	208.1	0.07012
67.	0.2046	208.5	0.08184
67.5	0.221	209.	0.06963
68.	0.1962	209.5	0.07108
68.5	0.1805	210.	0.07621
69.	0.1924	210.5	0.06778
69.5	0.1999	211.	0.07479
70.	0.1887	211.5	0.06732
70.5	0.1873	212.	0.07777
71.	0.1854	212.5	0.07806
71.5	0.1905	213.	0.07335
72.	0.168	213.5	0.08757
72.5	0.1854	214.	0.08132
73.	0.1746	214.5	0.05608
73.5	0.1769	215.	0.06449
74.	0.1774	215.5	0.08387
74.5	0.1863	216.	0.06732
75.	0.1798	216.5	0.06449
75.5	0.1877	217.	0.06636
76.08	0.1873	217.5	0.08652
76.5	0.1742	218.1	0.07714
77.	0.1671	218.5	0.07898
77.5	0.1779	219.	0.07524
78.	0.1737	219.5	0.07998
78.5	0.183	220.	0.06404
79.	0.1563	220.5	0.08184
79.5	0.1737	221.	0.07012
80.	0.1858	221.5	0.09208
80.5	0.1685	222.	0.06867

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.1512	222.5	0.06261
81.5	0.1733	223.	0.06748
82.	0.1563	223.5	0.08809
82.5	0.1465	224.	0.0806
83.	0.154	224.5	0.07335
83.5	0.1625	225.	0.08387
84.	0.1502	225.5	0.07384
84.5	0.1493	226.	0.06867
85.	0.1535	226.5	0.06495
85.5	0.1517	227.	0.07384
86.	0.1544	227.5	0.07492
86.58	0.1538	228.1	0.07384
87.	0.1568	228.5	0.07384
87.5	0.1479	229.	0.07621
88.	0.1427	229.5	0.07436
88.5	0.1418	230.	0.08132
89.	0.1427	230.5	0.07384
89.5	0.1582	231.	0.05885
90.	0.1329	231.5	0.07806
90.5	0.1408	232.	0.06123
91.	0.139	232.5	0.0731
91.5	0.1474	233.	0.07293
92.	0.1399	233.5	0.08132
92.5	0.1362	234.	0.06495
93.	0.1448	234.5	0.07806
93.5	0.138	235.	0.07057
94.	0.1455	235.5	0.07898
94.5	0.1315	236.	0.06732
95.	0.138	236.5	0.06916
95.5	0.1451	237.	0.06166
96.	0.1268	237.7	0.05978
96.58	0.1397	238.	0.06684
97.	0.1455	238.5	0.07242
97.5	0.1306	239.	0.07436
98.	0.1334	239.5	0.07665
98.5	0.1282	240.	0.06404
99.	0.1348	240.5	0.07012
99.5	0.1319	241.	0.07358
100.	0.131	241.5	0.06449
100.5	0.1292	242.	0.07479
101.	0.124	242.5	0.0682
101.5	0.1371	243.	0.05978
102.	0.1253	243.5	0.05608
102.5	0.1315	244.	0.06636
103.	0.1253	244.5	0.07588
103.5	0.1216	245.	0.05608
104.	0.1282	245.5	0.07057
104.5	0.1202	246.	0.06778
105.	0.1344	246.5	0.0682
105.5	0.1212	247.	0.05885
106.	0.1259	247.7	0.0631
106.6	0.1216	248.	0.07293
107.	0.124	248.5	0.06916
107.5	0.1193	249.	0.06916
108.	0.1259	249.5	0.08478
108.5	0.1218	250.	0.0715
109.	0.1278	250.5	0.06354
109.5	0.116	251.	0.06963
110.	0.1184	251.5	0.05371
110.5	0.1188	252.	0.07898
111.	0.1199	252.5	0.06684
111.5	0.1165	253.	0.07445
112.	0.1377	253.5	0.06495
112.5	0.131	254.	0.06166
113.	0.1118	254.5	0.07384
113.5	0.1165	255.	0.05608

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	0.1193	255.5	0.07215
114.5	0.1058	256.	0.06636
115.	0.116	256.5	0.07825
115.5	0.117	257.	0.06963
116.1	0.09928	257.7	0.0682
116.5	0.1109	258.	0.07335
117.	0.1202	258.5	0.07571
117.5	0.1296	259.	0.06778
118.	0.1104	259.5	0.06123
118.5	0.1231	260.	0.0715
119.	0.1231	260.5	0.07293
119.5	0.1127	261.	0.05701
120.	0.1124	261.5	0.05608
120.5	0.1171	262.	0.07479
121.	0.1142	262.5	0.06404
121.5	0.1043	263.	0.06449
122.	0.1246	263.5	0.06979
122.5	0.1113	264.	0.06778
123.	0.109	264.5	0.05933
123.5	0.1118	265.	0.05132
124.	0.1029	265.5	0.0682
124.5	0.1068	266.	0.05701
125.	0.1094	266.5	0.06495
125.5	0.1058	267.	0.05748
126.1	0.08332	267.5	0.05885
126.5	0.1099	268.	0.07384
127.	0.1057	268.7	0.06963
127.5	0.1015	269.	0.07057
128.	0.1142	269.6	0.06495
128.5	0.1202	270.	0.06166
129.	0.09872	270.5	0.05838
129.5	0.1155	271.	0.04432
130.	0.08983	271.5	0.07621
130.5	0.1081	272.	0.06636
131.	0.09682	272.5	0.05792
131.5	0.09494	273.	0.06404
132.	0.09169	273.5	0.06748
132.5	0.09872	274.	0.06261
133.	0.1087	274.5	0.06139
133.5	0.1034	275.	0.06792
134.	0.1038	275.5	0.07293
134.5	0.1034	276.	0.04901
135.	0.09353	276.5	0.06449
135.5	0.1035	277.	0.06404
136.1	0.08915	277.5	0.06636
136.5	0.1053	279.	-280.5
137.	0.1011	282.	-283.5
137.5	0.1034	285.	-286.5
138.	0.1155	288.1	-289.5
138.5	0.09261	291.	-292.5
139.	0.09494	294.	-295.5
139.5	0.09539	297.	-298.5
140.	0.09647	300.	-301.5
140.5	0.1034	303.	-304.5
141.	0.1043	306.	-307.5

SOLUTION

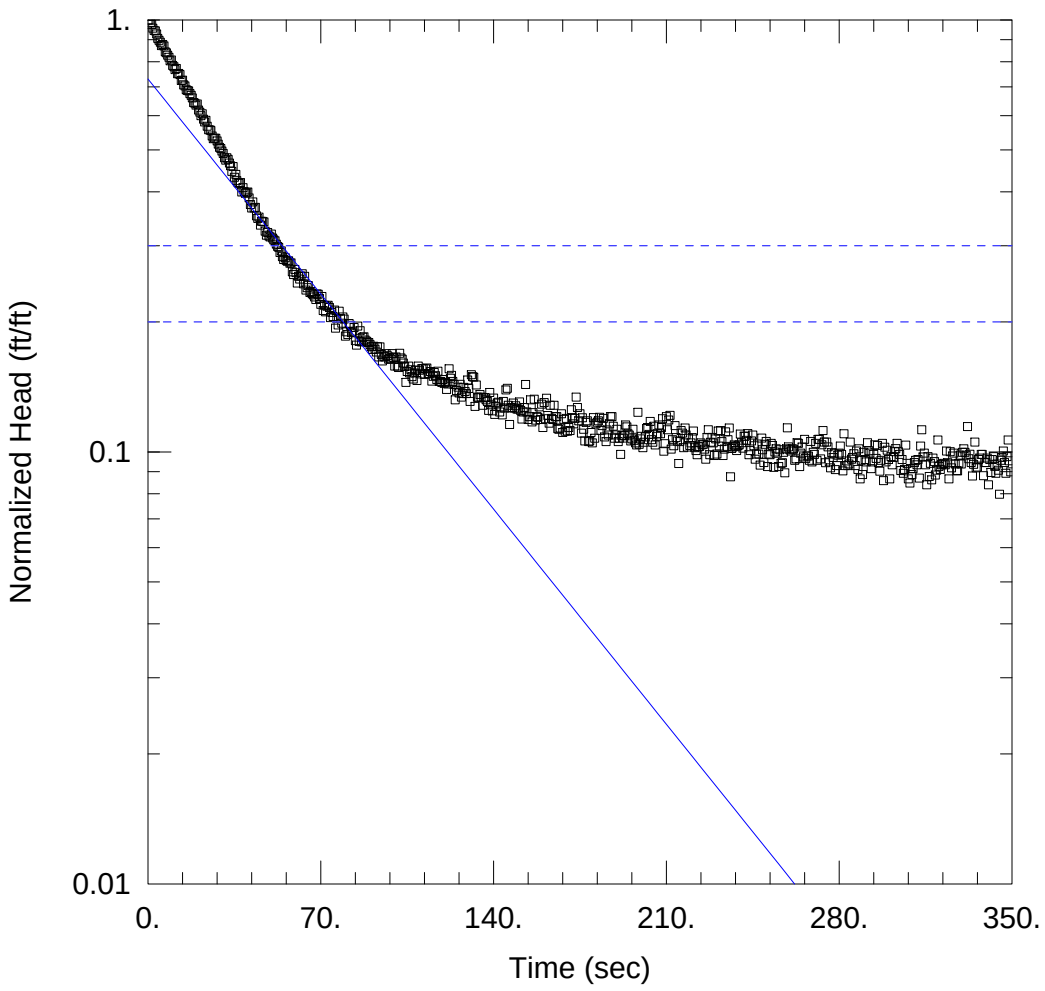
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.414

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.297	ft/day
y0	0.9904	ft

K = 0.001163 cm/sec
T = K*b = 329.7 ft²/day (3.546 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4A rh2.aqt
Date: 01/04/16 Time: 13:46:18

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4A)

Initial Displacement: 1.245 ft
Total Well Penetration Depth: 12.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.58 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.151 ft/day y0 = 0.9085 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:46:36

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.245 ft
Static Water Column Height: 7.58 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 12.5 ft

No. of Observations: 707

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-9	-1.246	177.	0.132
0.5	1.244	177.5	0.1457
1.	1.227	178.	0.147
1.5	1.215	178.5	0.1315
2.	1.191	179.	0.132
2.5	1.177	179.5	0.1381
3.	1.174	180.	0.1306
3.5	1.156	180.5	0.1495
4.	1.129	181.	0.1339
4.5	1.116	181.5	0.1446
5.	1.106	182.	0.1458
5.5	1.086	182.5	0.147
6.	1.093	183.	0.1498
6.5	1.084	183.5	0.1397
7.	1.05	184.	0.1432
7.5	1.045	184.5	0.1489
8.	1.032	185.	0.1348
8.5	1.02	185.6	0.1315
9.	1.001	186.	0.14
9.5	1.005	186.5	0.1362
10.	0.9769	187.	0.1446
10.5	0.9703	187.5	0.1503
11.	0.9553	188.	0.1503
11.5	0.9614	188.5	0.1428
12.	0.9342	189.	0.1339
12.5	0.9357	189.5	0.1364
13.	0.9305	190.	0.1404
13.5	0.9014	190.5	0.1315
14.	0.9028	191.	0.1339
14.5	0.8808	191.5	0.1228

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.8761	192.	0.1357
15.5	0.8583	192.5	0.134
16.	0.855	193.	0.1357
16.5	0.8532	193.5	0.1437
17.	0.8405	194.	0.1423
17.5	0.8325	194.5	0.1372
18.	0.8213	195.	0.1362
18.5	0.8011	195.6	0.132
19.	0.7988	196.	0.1334
19.5	0.7903	196.5	0.1404
20.	0.795	197.	0.1325
20.5	0.7698	197.5	0.1306
21.	0.7613	198.	0.1292
21.5	0.7472	198.5	0.1537
22.	0.7547	199.	0.1296
22.5	0.7336	199.5	0.1334
23.	0.7228	200.	0.1352
23.5	0.729	200.5	0.1273
24.	0.7064	201.	0.1311
24.57	0.6934	201.5	0.1348
25.15	0.6924	202.	0.141
25.5	0.6905	202.5	0.1418
26.	0.6704	203.	0.1367
26.5	0.661	203.5	0.1465
27.	0.6629	204.	0.1329
27.5	0.6624	204.5	0.1311
28.	0.653	205.	0.1428
28.5	0.6422	205.5	0.1292
29.	0.631	206.	0.1352
29.5	0.6273	206.5	0.1372
30.	0.6188	207.	0.1437
30.5	0.6109	207.6	0.1372
31.	0.5972	208.	0.1418
31.5	0.5897	208.5	0.1486
32.	0.5973	209.	0.1249
32.5	0.5921	209.5	0.1301
33.	0.5804	210.	0.1503
33.5	0.5725	210.5	0.1401
34.	0.5556	211.	0.1476
34.5	0.5697	211.5	0.1513
35.	0.5382	212.	0.1264
35.6	0.5467	212.5	0.1329
36.	0.5284	213.	0.1287
36.5	0.5228	213.5	0.1432
37.	0.5209	214.	0.1343
37.5	0.5232	214.5	0.132
38.	0.4974	215.	0.117
38.5	0.5092	215.5	0.1315
39.	0.4984	216.	0.1395
39.5	0.4942	216.5	0.1376
40.	0.4961	217.	0.1273
40.5	0.4975	217.6	0.1414
41.	0.482	218.	0.1364
41.5	0.4656	218.5	0.1278
42.	0.4567	219.	0.1339
42.5	0.4721	219.5	0.1289
43.	0.4567	220.	0.1306
43.5	0.4586	220.5	0.1343
44.	0.4384	221.	0.1392
44.5	0.4324	221.5	0.1273
45.	0.4352	222.	0.1254
45.61	0.4169	222.5	0.1226
46.	0.4258	223.	0.1279
46.5	0.4254	223.5	0.1283
47.	0.4244	224.	0.1306
47.5	0.4038	224.5	0.1294

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.3954	225.	0.1296
48.5	0.401	225.5	0.1264
49.	0.3934	226.	0.1198
49.5	0.3916	226.5	0.1345
50.	0.3977	227.	0.1401
50.5	0.3892	227.6	0.1226
51.	0.3855	228.	0.1311
51.5	0.3836	228.5	0.1345
52.	0.3768	229.	0.1306
52.5	0.3724	229.5	0.1222
53.	0.3705	230.	0.1334
53.5	0.3606	230.5	0.1231
54.	0.3635	231.	0.1392
54.5	0.3527	231.5	0.1284
55.	0.3471	232.	0.1395
55.61	0.3504	232.5	0.1315
56.	0.3456	233.	0.1222
56.5	0.3438	233.5	0.1264
57.	0.3448	234.	0.1385
57.5	0.3405	234.5	0.1283
58.	0.341	235.	0.1329
58.5	0.3251	235.5	0.1414
59.	0.3204	236.	0.109
59.5	0.3292	236.5	0.1268
60.	0.3236	237.	0.1278
60.5	0.3063	237.5	0.1292
61.	0.3176	238.	0.1283
61.5	0.3129	238.5	0.1254
62.	0.318	239.	0.1287
62.5	0.3217	239.5	0.1294
63.	0.3049	240.	0.1369
63.5	0.3176	240.5	0.1307
64.	0.2951	241.	0.127
64.5	0.2988	241.5	0.1355
65.	0.3021	242.	0.1352
65.61	0.2913	242.5	0.1325
66.	0.2927	243.	0.1373
66.5	0.2895	243.5	0.1226
67.	0.2876	244.	0.1254
67.5	0.2843	244.5	0.132
68.	0.2805	245.	0.1362
68.5	0.289	245.5	0.1287
69.	0.2885	246.	0.1198
69.5	0.2819	246.5	0.1231
70.	0.2735	247.	0.1298
70.5	0.2852	247.5	0.1231
71.	0.2646	248.	0.1161
71.5	0.2721	248.7	0.134
72.	0.2626	249.	0.1259
72.5	0.2707	249.5	0.1177
73.	0.2721	250.	0.1296
73.5	0.2688	250.5	0.1317
74.	0.2548	251.	0.1151
74.5	0.2618	251.5	0.1231
75.	0.2562	252.	0.1226
75.6	0.2651	252.5	0.1303
76.	0.2408	253.	0.1289
76.5	0.2534	253.5	0.1146
77.	0.2449	254.	0.1245
77.5	0.2637	254.5	0.1266
78.	0.2534	255.	0.1236
78.5	0.2473	255.5	0.1151
79.	0.2557	256.	0.1259
79.5	0.2529	256.5	0.1171
80.	0.2308	257.	0.1175
80.5	0.2361	257.5	0.1242

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	0.2327	258.	0.1114
81.5	0.2468	258.7	0.1266
82.	0.2444	259.	0.1415
82.5	0.2351	259.5	0.1279
83.	0.237	260.	0.1259
83.5	0.2416	260.5	0.1251
84.	0.2253	261.	0.1266
84.5	0.2201	261.5	0.1264
85.	0.2435	262.	0.119
85.6	0.2243	262.5	0.12
86.	0.2375	263.	0.1307
86.5	0.2238	263.5	0.1303
87.	0.2294	264.	0.1151
87.5	0.2299	264.5	0.1237
88.	0.2262	265.	0.1278
88.5	0.2248	265.5	0.1212
89.	0.2233	266.	0.1331
89.5	0.2229	266.5	0.1203
90.	0.2205	267.	0.1219
90.5	0.2182	267.6	0.1219
91.	0.215	268.	0.119
91.5	0.2187	268.5	0.1317
92.	0.2154	269.	0.1181
92.5	0.2121	269.5	0.1242
93.	0.2182	270.	0.1228
93.5	0.2065	270.5	0.1303
94.	0.2179	271.	0.119
94.5	0.2094	271.5	0.1331
95.	0.2021	272.	0.1331
95.6	0.207	272.5	0.12
96.	0.2065	273.	0.1294
96.5	0.2102	273.5	0.1395
97.	0.208	274.	0.1312
97.5	0.2041	274.5	0.1175
98.	0.2051	275.	0.1312
98.5	0.2041	275.5	0.1279
99.	0.2102	276.	0.1181
99.5	0.2061	276.5	0.1144
100.	0.1967	277.	0.124
100.5	0.2065	277.6	0.1209
101.	0.1967	278.	0.1233
101.5	0.1953	278.5	0.1133
102.	0.2107	279.	0.1158
102.5	0.2056	279.5	0.1223
103.	0.2041	280.	0.1237
103.5	0.1999	280.5	0.1284
104.	0.1962	281.	0.1228
104.5	0.1803	281.5	0.1125
105.	0.191	282.	0.1372
105.6	0.1967	282.5	0.1158
106.	0.1896	283.	0.1186
106.5	0.1929	283.5	0.1158
107.	0.1859	284.	0.1167
107.5	0.1835	284.5	0.1312
108.	0.1896	285.	0.1198
108.5	0.1924	285.5	0.1209
109.	0.1821	286.	0.1233
109.5	0.1967	286.5	0.1158
110.	0.1924	287.	0.1251
110.5	0.1887	287.6	0.1134
111.	0.1939	288.	0.1266
111.5	0.1943	288.5	0.1078
112.	0.1882	289.	0.119
112.5	0.1939	289.5	0.1103
113.	0.1948	290.	0.1242
113.5	0.1892	290.5	0.1195

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	0.1887	291.	0.1181
114.5	0.191	291.5	0.1307
115.	0.1816	292.	0.1253
115.6	0.1863	292.5	0.1237
116.	0.1901	293.	0.1138
116.5	0.1868	293.5	0.1181
117.	0.1831	294.	0.1228
117.5	0.1915	294.5	0.1294
118.	0.1812	295.	0.1203
118.5	0.1812	295.5	0.1289
119.	0.1803	296.	0.1177
119.5	0.1831	296.5	0.1123
120.	0.1795	297.	0.119
120.5	0.1803	297.5	0.1303
121.	0.1737	298.	0.1069
121.5	0.1789	298.5	0.1276
122.	0.1939	299.	0.1181
122.5	0.1844	299.5	0.1256
123.	0.1873	300.	0.1195
123.5	0.1812	300.5	0.1078
124.	0.1784	301.	0.1214
124.5	0.1643	301.5	0.1162
125.	0.1727	302.	0.1209
125.6	0.1758	302.5	0.1247
126.	0.1705	303.	0.1267
126.5	0.1785	303.5	0.1303
127.	0.1667	304.	0.1247
127.5	0.1699	304.5	0.1228
128.	0.1756	305.	0.1127
128.5	0.1718	305.5	0.1195
129.	0.1699	306.	0.1111
129.5	0.1826	306.5	0.1134
130.	0.1746	307.	0.1291
130.5	0.1629	307.5	0.1171
131.	0.1879	308.	0.1078
131.5	0.1859	308.7	0.1055
132.	0.1854	309.	0.1138
132.5	0.1587	309.5	0.1103
133.	0.1779	310.	0.1138
133.5	0.1667	310.5	0.1177
134.	0.1662	311.	0.119
134.5	0.169	311.5	0.1162
135.	0.1667	312.	0.1195
135.6	0.1597	312.5	0.1083
136.	0.1662	313.	0.1284
136.5	0.1663	313.5	0.1401
137.	0.1643	314.	0.1212
137.5	0.1629	314.5	0.1237
138.	0.1554	315.	0.1162
138.5	0.1709	315.5	0.1045
139.	0.1601	316.	0.1214
139.5	0.155	316.5	0.1092
140.	0.1659	317.	0.1171
140.5	0.1521	317.5	0.1073
141.	0.1587	318.	0.1205
141.5	0.1615	318.7	0.1182
142.	0.1623	319.	0.1101
142.5	0.154	319.5	0.1129
143.	0.1573	320.	0.1327
143.5	0.1517	320.5	0.1153
144.	0.1629	321.	0.1134
144.5	0.1573	321.5	0.1162
145.	0.1732	322.	0.1167
145.6	0.1748	322.5	0.1171
146.	0.1597	323.	0.1162
146.5	0.1442	323.5	0.1251

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
147.	0.1573	324.	0.1175
147.5	0.1578	324.5	0.1078
148.	0.1615	325.	0.1247
148.5	0.1573	325.5	0.1144
149.	0.1592	326.	0.1219
149.5	0.1563	326.5	0.1237
150.	0.1565	327.	0.1167
150.5	0.1625	327.6	0.1127
151.	0.1554	328.	0.1125
151.5	0.1483	328.5	0.1171
152.	0.154	329.	0.1223
152.5	0.1578	329.5	0.1167
153.	0.1784	330.	0.1242
153.5	0.154	330.5	0.1266
154.	0.148	331.	0.1242
154.5	0.1503	331.5	0.1223
155.	0.1643	332.	0.1425
155.6	0.1461	332.5	0.1201
156.	0.1535	333.	0.123
156.5	0.165	333.5	0.1177
157.	0.1475	334.	0.1095
157.5	0.1503	334.5	0.1166
158.	0.1498	335.	0.1312
158.5	0.1582	335.5	0.1144
159.	0.148	336.	0.1149
159.5	0.1606	336.5	0.1195
160.	0.1418	337.	0.1205
160.5	0.1619	337.6	0.1228
161.	0.1486	338.	0.1228
161.5	0.1657	338.5	0.1097
162.	0.1512	339.	0.1177
162.5	0.1451	339.5	0.1177
163.	0.1597	340.	0.1205
163.5	0.1489	340.5	0.1045
164.	0.148	341.	0.1195
164.5	0.1597	341.5	0.1115
165.	0.1503	342.	0.1195
165.6	0.1503	342.5	0.1214
166.	0.1409	343.	0.1153
166.5	0.1404	343.5	0.1111
167.	0.1414	344.	0.1167
167.5	0.1526	344.5	0.1129
168.	0.1381	345.	0.09935
168.5	0.148	345.5	0.119
169.	0.139	346.	0.1209
169.5	0.1489	346.5	0.1251
170.	0.139	347.	0.1177
170.5	0.1418	347.6	0.1111
171.	0.1395	348.	0.1214
171.5	0.1559	348.5	0.1327
172.	0.1494	349.	0.1188
172.5	0.1446	349.5	0.112
173.	0.1489	350.	0.1097
173.5	0.1667	350.5	0.1031
174.	0.1578	351.	0.1256
174.5	0.147	352.5	-354.
175.	0.1526	355.5	-357.
175.6	0.1376	358.5	-360.
176.	0.1494	361.5	-363.
176.5	0.1404		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

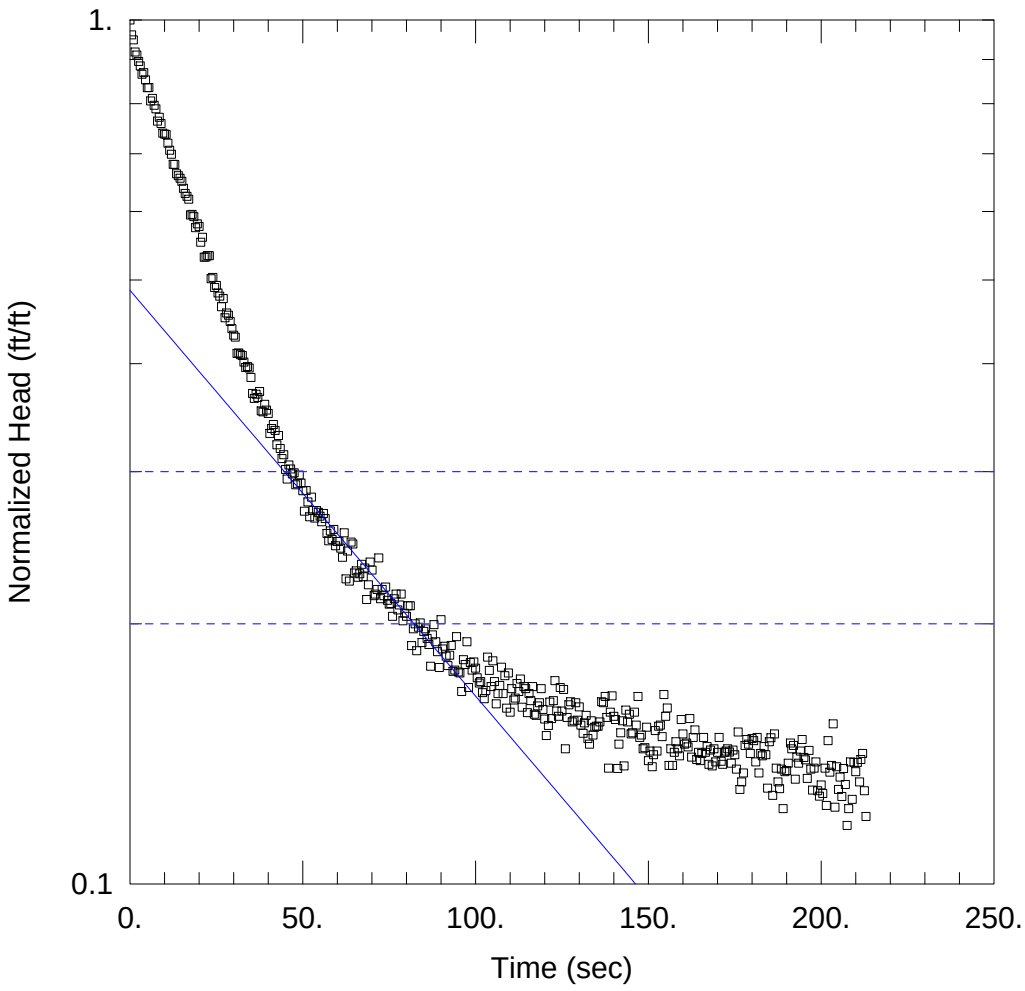
ln(Re/rw): 4.414

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.151	ft/day
y0	0.9085	ft

K = 0.0007589 cm/sec
T = K*b = 215.1 ft²/day (2.313 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4A rh3.aqt
Date: 01/04/16 Time: 13:47:09

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4A
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4A)

Initial Displacement: 1.049 ft
Total Well Penetration Depth: 12.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.58 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.42 ft/day
y0 = 0.5103 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:47:23

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.049 ft
Static Water Column Height: 7.58 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 12.5 ft

No. of Observations: 461

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-10	1.049	115.5	0.1742
0.501	1.008	116.	0.171
1.001	0.9946	116.5	0.1775
1.501	0.9632	117.	0.1649
2.001	0.9552	117.5	0.1644
2.501	0.9393	118.	0.1686
3.001	0.9281	118.5	0.17
3.501	0.9075	119.	0.1765
4.001	0.9116	119.5	0.167
4.501	0.8943	120.	0.1628
5.001	0.8756	120.5	0.1558
5.501	0.8761	121.1	0.1601
6.001	0.8452	121.5	0.1703
6.501	0.8509	122.	0.163
7.001	0.8354	122.5	0.171
7.501	0.8279	123.	0.1803
8.001	0.8012	123.5	0.1663
8.501	0.8091	124.	0.1639
9.001	0.796	124.5	0.1771
9.501	0.7759	125.	0.1663
10.	0.774	125.5	0.1762
10.5	0.7731	126.	0.1504
11.	0.7553	126.5	0.1635
11.5	0.7412	127.	0.1691
12.	0.7333	127.5	0.1705
12.5	0.714	128.	0.1616
13.	0.7136	128.5	0.162
13.5	0.6963	129.	0.17
14.	0.6926	129.5	0.1623
14.5	0.6879	130.	0.1682

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.6823	130.5	0.1602
15.5	0.6696	131.1	0.1567
16.	0.6607	131.5	0.1611
16.5	0.6556	132.	0.1644
17.	0.6504	132.5	0.1545
17.5	0.6237	133.	0.1522
18.	0.6246	133.5	0.162
18.5	0.6209	134.	0.156
19.	0.6031	134.5	0.1593
19.5	0.6092	135.	0.1597
20.	0.605	135.5	0.1597
20.5	0.5801	136.	0.1616
21.	0.5877	136.5	0.1705
21.5	0.5572	137.	0.17
22.	0.5577	137.5	0.1728
22.5	0.5596	138.	0.1635
23.	0.5596	138.5	0.1428
23.5	0.5263	139.	0.1658
24.	0.5282	139.5	0.1732
24.5	0.5142	140.	0.1639
25.	0.5169	140.5	0.1625
25.5	0.5067	141.1	0.1427
26.	0.5025	141.5	0.1522
26.5	0.4884	142.	0.1569
27.	0.4992	142.5	0.162
27.5	0.4743	143.	0.1436
28.	0.4804	143.5	0.1667
28.5	0.4776	144.	0.1616
29.	0.4697	144.5	0.1649
29.5	0.4608	145.	0.1565
30.	0.4528	145.5	0.1569
30.5	0.4505	146.	0.1658
31.	0.4313	146.5	0.1602
31.5	0.4318	147.	0.1728
32.	0.4299	147.5	0.155
32.5	0.429	148.	0.156
33.	0.4215	148.5	0.1504
33.5	0.4154	149.	0.1508
34.	0.4164	149.5	0.1593
34.5	0.4149	150.	0.1457
35.	0.4046	150.5	0.1494
35.5	0.3877	151.1	0.1434
36.	0.3826	151.5	0.148
36.5	0.3868	152.	0.1578
37.	0.3835	152.5	0.1494
37.5	0.3896	153.	0.1597
38.	0.37	153.5	0.1602
38.5	0.3691	154.	0.1553
39.	0.3765	154.5	0.1738
39.5	0.3709	155.	0.1639
40.	0.3676	155.5	0.1677
40.5	0.3484	156.	0.1438
41.	0.3531	156.5	0.1504
41.5	0.3569	157.	0.1438
42.	0.3512	157.5	0.149
42.5	0.3381	158.	0.1532
43.	0.3466	158.5	0.1504
43.5	0.3348	159.	0.1476
44.	0.326	159.5	0.1625
44.5	0.3292	160.	0.1565
45.	0.3166	160.5	0.1522
45.5	0.3086	161.1	0.1527
46.	0.3203	161.5	0.1512
46.5	0.317	162.	0.163
47.	0.3128	162.5	0.1471
47.5	0.3138	163.	0.155

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.3039	163.5	0.1581
48.5	0.3049	164.	0.1461
49.	0.3119	164.5	0.149
49.5	0.3053	165.	0.1457
50.	0.2991	165.5	0.1485
50.5	0.2832	166.	0.155
51.	0.2992	166.5	0.149
51.5	0.2904	167.	0.1513
52.	0.2791	167.5	0.1443
52.5	0.2941	168.	0.1499
53.	0.2838	168.5	0.1436
53.5	0.2781	169.	0.1504
54.	0.2838	169.5	0.1452
54.5	0.2824	170.	0.149
55.	0.2796	170.5	0.155
55.5	0.2754	171.1	0.1455
56.	0.2816	171.5	0.1443
56.5	0.2777	172.	0.149
57.	0.267	172.5	0.1494
57.5	0.2618	173.	0.1504
58.	0.2688	173.5	0.1491
58.5	0.2627	174.	0.1447
59.	0.2698	174.5	0.1499
59.5	0.2584	175.	0.148
60.	0.2614	175.5	0.1424
60.5	0.2614	176.	0.1572
61.	0.2567	176.5	0.1349
61.5	0.2505	177.	0.1377
62.	0.2675	177.5	0.141
62.5	0.2365	178.	0.1517
63.	0.2548	178.5	0.1541
63.5	0.2351	179.	0.1522
64.	0.2608	179.5	0.1485
64.5	0.2595	180.	0.1545
65.	0.2402	180.5	0.1537
65.5	0.2416	181.1	0.1452
66.	0.2375	181.5	0.155
66.5	0.2398	182.	0.141
67.	0.2459	182.5	0.1485
67.5	0.2379	183.	0.1476
68.	0.2435	183.5	0.1513
68.5	0.2239	184.	0.148
69.	0.2328	184.5	0.1354
69.5	0.2473	185.	0.1532
70.06	0.2421	185.5	0.1549
70.65	0.2262	186.	0.1328
71.	0.2271	186.5	0.1565
71.5	0.2299	187.	0.1428
72.	0.2501	187.5	0.1377
72.5	0.2243	188.	0.1352
73.	0.2299	188.5	0.1424
73.5	0.2262	189.	0.1282
74.	0.2314	189.5	0.1415
74.5	0.2234	190.	0.1419
75.	0.2211	190.5	0.1447
75.5	0.2215	191.1	0.1527
76.	0.2141	191.5	0.1504
76.5	0.2243	192.	0.1517
77.	0.2271	192.5	0.1387
77.5	0.2177	193.	0.1471
78.	0.2206	193.5	0.1447
78.5	0.2271	194.	0.1494
79.	0.2115	194.5	0.1541
79.5	0.2158	195.	0.1469
80.	0.2141	195.5	0.146
80.5	0.2201	196.	0.1389

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.11	0.2201	196.5	0.1497
81.5	0.198	197.	0.1424
82.	0.207	197.5	0.1347
82.5	0.2098	198.	0.1428
83.	0.1953	198.5	0.1452
83.5	0.2079	199.	0.1344
84.	0.2103	199.5	0.1326
84.5	0.1996	200.	0.1366
85.	0.2056	200.5	0.1335
85.5	0.207	201.1	0.1428
86.	0.2018	201.5	0.1293
86.5	0.1986	202.	0.1537
87.	0.1874	202.5	0.1413
87.5	0.2037	203.	0.1438
88.	0.2094	203.5	0.1607
88.5	0.2	204.	0.1287
89.	0.1948	204.5	0.1434
89.5	0.1867	205.	0.1349
90.	0.2122	205.5	0.1394
90.5	0.1962	206.	0.1324
91.11	0.1977	206.5	0.1427
91.5	0.1925	207.	0.1368
92.	0.1877	207.5	0.1226
92.5	0.193	208.	0.1282
93.	0.1981	208.5	0.1452
93.5	0.1849	209.	0.1314
94.	0.1854	209.5	0.145
94.5	0.2028	210.	0.1415
95.	0.1845	210.5	0.145
95.5	0.184	211.1	0.1377
96.01	0.1751	211.5	0.1461
96.5	0.1906	212.	0.1485
97.	0.1883	212.5	0.1344
97.5	0.2	213.	0.1255
98.	0.1771	214.5	-216.
98.5	0.1892	217.5	-219.
99.	0.1854	220.5	-222.
99.5	0.1895	223.5	-225.
100.	0.1864	226.5	-228.
100.5	0.1817	229.5	-231.1
101.1	0.1792	232.5	-234.
101.5	0.1799	235.5	-237.
102.	0.1747	238.5	-240.
102.5	0.1718	241.5	-243.
103.	0.1756	244.5	-246.
103.5	0.192	247.5	-249.
104.	0.1853	250.5	-252.
104.5	0.1775	253.5	-255.
105.	0.1901	256.5	-258.
105.5	0.1799	259.5	-261.
106.	0.1695	262.5	-264.
106.5	0.1742	265.5	-267.
107.	0.178	268.5	-270.
107.5	0.1869	271.5	-273.
108.	0.1742	274.5	-276.
108.5	0.1827	277.5	-279.
109.	0.1675	280.5	-282.
109.5	0.184	283.5	-285.
110.	0.1658	286.5	-288.
110.5	0.1765	289.5	-291.
111.1	0.1713	292.5	-294.
111.5	0.1722	295.5	-297.1
112.	0.1789	298.5	-300.
112.5	0.1751	301.5	-303.
113.	0.1811	304.5	-306.
113.5	0.168	307.6	-309.

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	0.1775	310.5	-312.
114.5	0.1765	313.5	-315.
115.	0.1656		

SOLUTION

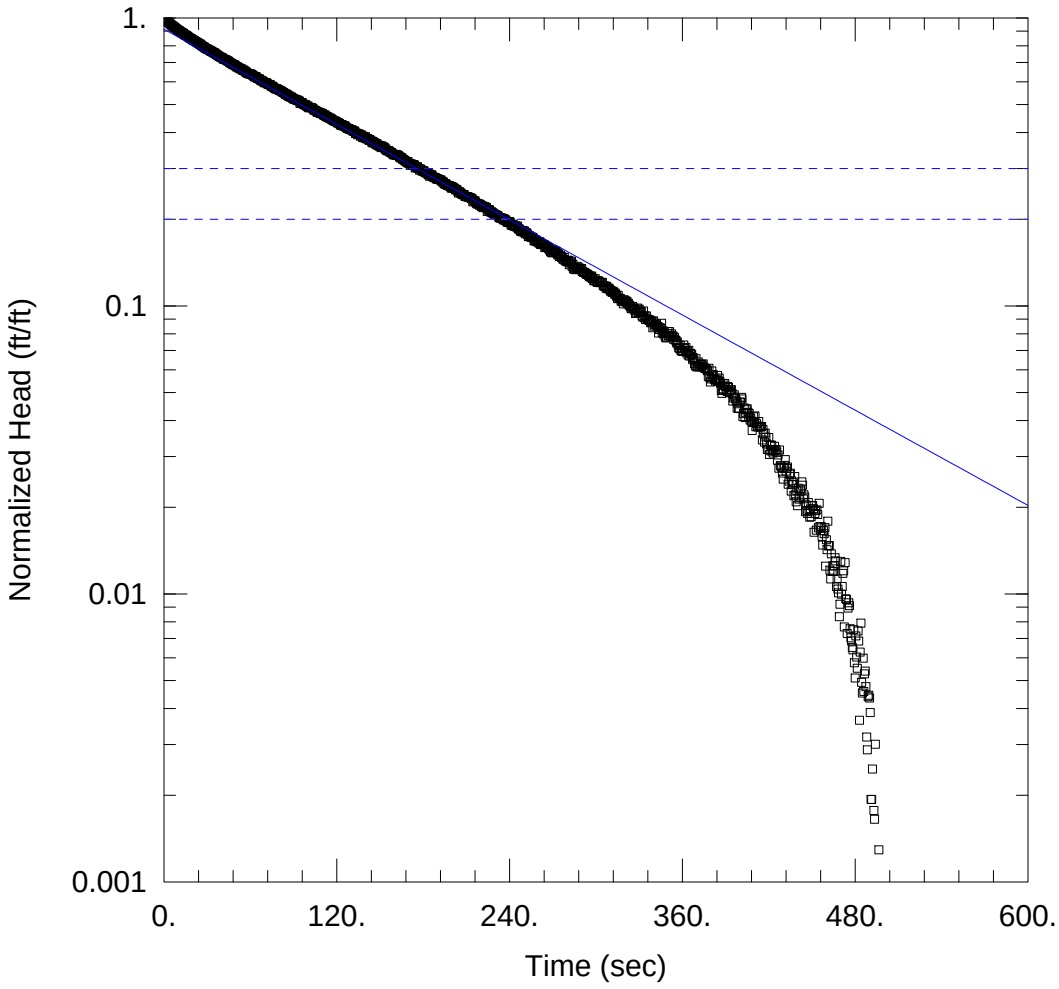
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 4.414

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.42	ft/day
y0	0.5103	ft

K = 0.0005011 cm/sec
T = K*b = 142. ft²/day (1.527 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4B rh2.aqt
Date: 01/04/16 Time: 13:48:11

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4B)

Initial Displacement: 1.82 ft Static Water Column Height: 39.26 ft
Total Well Penetration Depth: 40. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.9525 ft/day y0 = 1.662 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:48:25

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.82 ft
Static Water Column Height: 39.26 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 1009

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-10	1.82	252.5	0.3225
0.5	1.839	253.	0.3169
1.	1.791	253.5	0.3176
1.5	1.792	254.	0.3189
2.	1.78	254.5	0.3158
2.5	1.765	255.1	0.3152
3.	1.761	255.5	0.3153
3.5	1.748	256.	0.3148
4.099	1.743	256.5	0.3133
4.523	1.731	257.	0.3062
5.	1.722	257.5	0.3078
5.5	1.714	258.	0.3054
6.	1.709	258.5	0.3083
6.5	1.702	259.	0.3052
7.	1.69	259.5	0.3039
7.5	1.688	260.	0.3025
8.	1.679	260.5	0.3007
8.5	1.67	261.	0.3043
9.	1.663	261.5	0.2978
9.5	1.656	262.	0.3003
10.	1.65	262.5	0.2982
10.5	1.644	263.	0.2967
11.	1.64	263.5	0.2974
11.5	1.627	264.	0.2978
12.	1.625	264.5	0.29
12.5	1.619	265.1	0.2911
13.	1.612	265.5	0.2928
13.5	1.61	266.	0.2927
14.	1.593	266.5	0.2901
14.5	1.59	267.	0.2881

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.01	1.585	267.5	0.2868
15.62	1.583	268.	0.2835
16.	1.575	268.5	0.2808
16.5	1.569	269.	0.2795
17.	1.562	269.5	0.2781
17.5	1.557	270.	0.2854
18.	1.548	270.5	0.2805
18.5	1.545	271.	0.2826
19.	1.542	271.5	0.2824
19.5	1.534	272.	0.2805
20.	1.525	272.5	0.2817
20.5	1.524	273.	0.2768
21.	1.518	273.5	0.274
21.5	1.513	274.	0.2759
22.	1.507	274.5	0.2703
22.5	1.502	275.1	0.2702
23.	1.497	275.5	0.2729
23.5	1.491	276.	0.2681
24.	1.486	276.5	0.2694
24.5	1.478	277.	0.2644
25.12	1.479	277.5	0.2643
25.54	1.47	278.	0.2685
26.	1.463	278.5	0.2618
26.5	1.456	279.	0.2602
27.	1.449	279.5	0.2609
27.5	1.445	280.	0.2588
28.	1.443	280.5	0.2622
28.5	1.432	281.	0.2618
29.	1.425	281.5	0.2528
29.5	1.426	282.	0.2562
30.	1.418	282.5	0.2589
30.5	1.417	283.	0.2604
31.	1.411	283.5	0.249
31.5	1.408	284.	0.2541
32.	1.403	284.5	0.2448
32.5	1.395	285.	0.2438
33.	1.395	285.5	0.2479
33.5	1.387	286.	0.243
34.	1.385	286.5	0.2461
34.5	1.377	287.	0.2497
35.12	1.378	287.5	0.2452
35.54	1.371	288.	0.2465
36.	1.363	288.5	0.2464
36.5	1.358	289.	0.2437
37.	1.354	289.5	0.2433
37.5	1.346	290.	0.2453
38.	1.342	290.5	0.2393
38.5	1.336	291.	0.2391
39.	1.334	291.5	0.2378
39.5	1.33	292.	0.2378
40.	1.324	292.5	0.2371
40.5	1.324	293.	0.2358
41.	1.313	293.5	0.234
41.5	1.308	294.	0.2348
42.	1.307	294.5	0.2333
42.5	1.305	295.	0.2317
43.	1.302	295.6	0.2297
43.5	1.297	296.	0.2311
44.	1.292	296.5	0.2287
44.5	1.289	297.	0.231
45.01	1.286	297.5	0.2262
45.52	1.275	298.	0.2271
46.	1.269	298.5	0.2226
46.5	1.269	299.	0.2231
47.	1.264	299.5	0.2264
47.5	1.258	300.	0.2214

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	1.254	300.5	0.2231
48.5	1.249	301.	0.2194
49.	1.252	301.5	0.223
49.5	1.245	302.	0.2214
50.	1.235	302.5	0.2193
50.5	1.229	303.	0.2197
51.	1.231	303.5	0.2192
51.5	1.227	304.	0.2198
52.	1.219	304.5	0.2195
52.5	1.218	305.	0.2142
53.	1.211	305.5	0.2134
53.5	1.213	306.	0.2128
54.	1.21	306.5	0.2133
54.5	1.197	307.	0.2097
55.01	1.201	307.5	0.2128
55.62	1.195	308.	0.2087
56.	1.192	308.5	0.2099
56.5	1.184	309.	0.2096
57.	1.183	309.5	0.2077
57.5	1.174	310.	0.2048
58.	1.171	310.5	0.2062
58.5	1.168	311.	0.2032
59.	1.164	311.5	0.2029
59.5	1.164	312.	0.2046
60.	1.163	312.5	0.2028
60.5	1.161	313.	0.1997
61.	1.158	313.5	0.2016
61.5	1.152	314.	0.1985
62.	1.149	314.5	0.1962
62.5	1.141	315.	0.1928
63.	1.134	315.5	0.1982
63.5	1.139	316.	0.1939
64.	1.137	316.5	0.193
64.5	1.127	317.	0.1929
65.01	1.122	317.5	0.189
65.62	1.12	318.	0.1908
66.	1.117	318.5	0.1883
66.5	1.117	319.	0.1849
67.	1.107	319.5	0.1911
67.5	1.102	320.	0.1904
68.	1.102	320.5	0.1889
68.5	1.098	321.	0.1872
69.	1.093	321.5	0.1889
69.5	1.088	322.	0.1853
70.	1.083	322.5	0.1861
70.5	1.086	323.	0.1834
71.	1.083	323.5	0.1825
71.5	1.082	324.	0.1806
72.	1.072	324.5	0.1779
72.5	1.071	325.	0.1785
73.	1.068	325.5	0.1813
73.5	1.066	326.	0.1781
74.	1.065	326.5	0.1788
74.5	1.054	327.	0.1752
75.01	1.051	327.5	0.1712
75.63	1.054	328.	0.1729
76.	1.045	328.5	0.1772
76.5	1.041	329.	0.179
77.	1.036	329.5	0.1729
77.5	1.033	330.	0.1774
78.	1.031	330.5	0.1735
78.5	1.033	331.	0.1744
79.	1.029	331.5	0.1737
79.5	1.025	332.	0.168
80.	1.02	332.5	0.1665
80.5	1.02	333.	0.1747

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	1.015	333.5	0.1657
81.5	1.014	334.	0.1681
82.	1.012	334.5	0.1632
82.5	1.003	335.	0.1681
83.	1.002	335.6	0.1637
83.5	0.9985	336.1	0.1638
84.	0.9937	336.5	0.163
84.5	0.9865	337.	0.1622
85.12	0.9909	337.5	0.1628
85.54	0.9808	338.	0.1591
86.	0.9831	338.5	0.16
86.5	0.9728	339.	0.1612
87.	0.9754	339.5	0.1529
87.5	0.9675	340.	0.1614
88.	0.9659	340.5	0.1548
88.5	0.9678	341.	0.1568
89.	0.9633	341.5	0.1565
89.5	0.9551	342.	0.1579
90.	0.9528	342.5	0.1549
90.5	0.9496	343.	0.1545
91.	0.9503	343.5	0.1466
91.5	0.9474	344.	0.1507
92.	0.9454	344.5	0.153
92.5	0.9416	345.	0.1522
93.02	0.9434	345.6	0.1585
93.5	0.9379	346.	0.1471
94.	0.9359	346.5	0.1491
94.5	0.9186	347.	0.1453
95.12	0.9229	347.5	0.1477
95.54	0.9256	348.	0.143
96.	0.9248	348.5	0.1409
96.5	0.9165	349.	0.1412
97.	0.9121	349.5	0.1459
97.5	0.9089	350.	0.1484
98.	0.9066	350.5	0.1433
98.5	0.9091	351.	0.1483
99.	0.9013	351.5	0.1431
99.5	0.8951	352.	0.1435
100.	0.9002	352.5	0.1456
100.5	0.8877	353.	0.1425
101.	0.8909	353.5	0.1432
101.5	0.8883	354.	0.1393
102.	0.889	354.5	0.1417
102.5	0.887	355.	0.1387
103.	0.8851	355.6	0.1382
103.5	0.883	356.	0.1354
104.	0.8721	356.5	0.1367
104.5	0.87	357.	0.1333
105.	0.8691	357.5	0.1303
105.5	0.866	358.	0.1294
106.	0.8632	358.5	0.1329
106.5	0.8552	359.	0.1273
107.	0.8595	359.5	0.1268
107.5	0.8547	360.	0.127
108.	0.8544	360.5	0.1265
108.5	0.8479	361.	0.1331
109.	0.852	361.5	0.1295
109.5	0.8464	362.	0.1276
110.	0.8481	362.5	0.1306
110.5	0.8413	363.	0.125
111.	0.836	363.5	0.1267
111.5	0.8357	364.	0.1228
112.	0.838	364.5	0.1276
112.5	0.8264	365.	0.1218
113.	0.8287	365.6	0.1246
113.5	0.8242	366.	0.1239

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	0.8239	366.5	0.1236
114.5	0.8189	367.	0.1189
115.	0.8164	367.5	0.1205
115.6	0.8152	368.	0.1181
116.	0.8158	368.5	0.1146
116.5	0.8068	369.	0.1128
117.	0.8059	369.5	0.1194
117.5	0.8018	370.	0.1117
118.	0.7995	370.5	0.1123
118.5	0.7991	371.	0.1162
119.	0.7961	371.5	0.1118
119.5	0.7961	372.	0.1124
120.	0.7917	372.5	0.1141
120.5	0.7858	373.	0.1118
121.	0.7883	373.5	0.1141
121.5	0.7847	374.	0.1127
122.	0.7816	374.5	0.1144
122.5	0.7735	375.	0.111
123.	0.7708	375.6	0.1105
123.5	0.7763	376.	0.1103
124.	0.7725	376.5	0.1102
124.5	0.7666	377.	0.1095
125.	0.7684	377.5	0.1083
125.6	0.769	378.	0.1035
126.	0.7628	378.5	0.1106
126.5	0.7581	379.	0.1027
127.	0.7554	379.5	0.09912
127.5	0.7524	380.	0.1015
128.	0.7505	380.5	0.1083
128.5	0.7519	381.	0.1038
129.	0.7456	381.5	0.1051
129.5	0.7456	382.	0.1017
130.	0.7443	382.5	0.101
130.5	0.7417	383.	0.09985
131.	0.7415	383.5	0.1015
131.5	0.7354	384.	0.1004
132.	0.7348	384.5	0.1044
132.5	0.7376	385.	0.09975
133.	0.722	385.6	0.1023
133.5	0.7259	386.	0.09975
134.	0.7234	386.5	0.09807
134.5	0.7151	387.	0.0926
135.	0.7206	387.5	0.09046
135.6	0.7187	388.	0.09314
136.	0.7174	388.5	0.09389
136.5	0.7068	389.	0.09666
137.	0.7149	389.5	0.09791
137.5	0.7081	390.	0.09546
138.	0.699	390.5	0.09322
138.5	0.7067	391.	0.09185
139.	0.7013	391.5	0.09558
139.5	0.6976	392.	0.09483
140.	0.704	392.5	0.09111
140.5	0.6926	393.	0.09226
141.	0.6931	393.5	0.09333
141.5	0.6929	394.	0.09322
142.	0.6895	394.5	0.09046
142.5	0.6838	395.	0.08503
143.	0.6877	395.6	0.08718
143.5	0.6826	396.	0.0894
144.	0.6805	396.5	0.08782
144.5	0.6712	397.	0.08663
145.1	0.6784	397.5	0.08503
145.5	0.6699	398.	0.08044
146.	0.6712	398.5	0.08325
146.5	0.6706	399.	0.08024

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
147.	0.6647	399.5	0.08013
147.5	0.6612	400.	0.08437
148.	0.6659	400.5	0.08426
148.5	0.657	401.	0.08759
149.	0.6576	401.5	0.0865
149.5	0.653	402.	0.07512
150.	0.6491	402.5	0.07693
150.5	0.6553	403.	0.08055
151.	0.6457	403.5	0.0746
151.5	0.6535	404.	0.07746
152.	0.6469	404.5	0.07936
152.5	0.6474	405.	0.08001
153.	0.6469	405.6	0.07779
153.5	0.6383	406.	0.07501
154.	0.6392	406.5	0.07704
154.5	0.6318	407.	0.0731
155.1	0.6302	407.5	0.07426
155.5	0.6294	408.	0.07245
156.	0.6281	408.5	0.06722
156.5	0.6279	409.	0.07192
157.	0.6216	409.5	0.07509
157.5	0.6218	410.	0.0719
158.	0.6199	410.5	0.07554
158.5	0.6163	411.	0.06923
159.	0.6118	411.5	0.07105
159.5	0.6094	412.	0.06977
160.	0.6088	412.5	0.06912
160.5	0.6116	413.	0.07222
161.	0.6099	413.5	0.06933
161.5	0.606	414.	0.06933
162.	0.6089	414.5	0.06903
162.5	0.6071	415.	0.06945
163.	0.6046	415.6	0.06232
163.5	0.6001	416.	0.06774
164.	0.5947	416.5	0.06553
164.5	0.5976	417.	0.06126
165.	0.5952	417.5	0.06584
165.5	0.5896	418.	0.0638
166.	0.588	418.5	0.06039
166.5	0.5858	419.	0.05773
167.	0.5835	419.5	0.05782
167.5	0.5809	420.	0.06358
168.	0.5769	420.5	0.05549
168.5	0.5765	421.	0.05996
169.	0.5714	421.5	0.05708
169.5	0.5771	422.	0.05974
170.	0.5703	422.5	0.05707
170.5	0.568	423.	0.05613
171.	0.5603	423.5	0.05771
171.5	0.5668	424.	0.05922
172.	0.5648	424.5	0.05717
172.5	0.561	425.	0.05771
173.	0.5636	425.6	0.05667
173.5	0.5622	426.	0.05303
174.	0.5615	426.5	0.05529
174.5	0.5487	427.	0.04972
175.	0.5544	427.5	0.05751
175.6	0.5492	428.	0.05071
176.	0.5539	428.5	0.05058
176.5	0.5464	429.	0.05006
177.	0.5457	429.5	0.04782
177.5	0.5388	430.	0.04555
178.	0.5436	430.5	0.04972
178.5	0.5429	431.	0.0509
179.	0.536	431.5	0.05325
179.5	0.5357	432.	0.04856

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
180.	0.5335	432.5	0.04961
180.5	0.5369	433.	0.05023
181.	0.5307	433.5	0.04373
181.5	0.5295	434.	0.04482
182.	0.5266	434.5	0.04735
182.5	0.5287	435.	0.04778
183.	0.5264	435.6	0.04143
183.5	0.519	436.	0.04493
184.	0.5242	436.5	0.04355
184.5	0.5131	437.	0.04429
185.	0.5193	437.5	0.03991
185.6	0.5165	438.	0.04652
186.	0.5192	438.5	0.04014
186.5	0.513	439.	0.03798
187.	0.51	439.5	0.04161
187.5	0.5087	440.	0.03683
188.	0.5072	440.5	0.04235
188.5	0.5077	441.	0.03885
189.	0.5049	441.5	0.0395
189.5	0.5012	442.	0.04216
190.	0.5035	442.5	0.04139
190.5	0.5008	443.	0.04459
191.	0.5002	443.5	0.04342
191.5	0.4994	444.	0.03894
192.	0.4976	444.5	0.04021
192.5	0.498	445.	0.03948
193.	0.4915	445.6	0.03512
193.5	0.4916	446.	0.03703
194.	0.4902	446.5	0.03544
194.5	0.484	447.	0.03459
195.	0.4821	447.5	0.03779
195.6	0.4829	448.	0.03533
196.	0.4823	448.5	0.03362
196.5	0.479	449.	0.03586
197.	0.4764	449.5	0.03373
197.5	0.4762	450.	0.03681
198.	0.4754	450.5	0.03692
198.5	0.4758	451.	0.03598
199.	0.4717	451.5	0.02979
199.5	0.4669	452.	0.03459
200.	0.4729	452.5	0.03543
200.5	0.4662	453.	0.0303
201.	0.4695	453.5	0.03564
201.5	0.4661	454.	0.03435
202.	0.4653	454.5	0.03084
202.5	0.4606	455.	0.03757
203.	0.4612	455.6	0.03118
203.5	0.4608	456.	0.03022
204.	0.4549	456.5	0.03118
204.5	0.449	457.	0.02882
205.1	0.4533	457.5	0.02689
205.5	0.452	458.	0.0302
206.	0.4496	458.5	0.02945
206.5	0.4463	459.	0.03094
207.	0.4444	459.5	0.02272
207.5	0.4432	460.	0.02807
208.	0.4427	460.5	0.02592
208.5	0.4436	461.	0.03256
209.	0.437	461.5	0.02669
209.5	0.4367	462.	0.02679
210.	0.4364	462.5	0.022
210.5	0.4353	463.	0.02051
211.	0.4358	463.5	0.02509
211.5	0.4342	464.	0.02177
212.	0.4333	464.5	0.02274
212.5	0.4332	465.	0.02177

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
213.	0.4316	465.6	0.02284
213.5	0.4295	466.	0.02433
214.	0.4287	466.5	0.02371
214.5	0.4185	467.	0.01932
215.1	0.4231	467.5	0.02051
215.5	0.4214	468.	0.01893
216.	0.4216	468.5	0.01836
216.5	0.417	469.	0.01516
217.	0.4137	469.5	0.01677
217.5	0.4106	470.	0.02362
218.	0.4131	470.5	0.01817
218.5	0.4113	471.	0.01933
219.	0.4074	471.5	0.02145
219.5	0.4104	472.	0.02188
220.	0.4079	472.5	0.01398
220.5	0.403	473.	0.02337
221.	0.4057	473.5	0.0175
221.5	0.3996	474.	0.01741
222.	0.4033	474.5	0.01325
222.5	0.402	475.	0.01625
223.	0.4021	475.6	0.01696
223.5	0.3991	476.	0.01656
224.	0.3992	476.5	0.01378
224.5	0.3874	477.	0.01281
225.	0.3919	477.5	0.01251
225.5	0.3921	478.	0.01186
226.	0.3928	478.5	0.01165
226.5	0.3865	479.	0.01367
227.	0.3856	479.5	0.01049
227.5	0.3865	480.	0.009297
228.	0.3829	480.5	0.01302
228.5	0.383	481.	0.01099
229.	0.381	481.5	0.01005
229.5	0.3776	482.	0.01354
230.	0.3776	482.5	0.01249
230.5	0.3768	483.	0.006628
231.	0.376	483.5	0.01143
231.5	0.3753	484.	0.01442
232.	0.3738	484.5	0.008982
232.5	0.3701	485.	0.008238
233.	0.3683	485.6	0.0109
233.5	0.3684	486.	0.008344
234.	0.3668	486.5	0.009603
234.5	0.3678	487.	0.009819
235.	0.3664	487.5	0.008674
235.6	0.3621	488.	0.005794
236.	0.3658	488.5	0.005234
236.5	0.3639	489.	0.008005
237.	0.3607	489.5	0.008097
237.5	0.3622	490.	0.007919
238.	0.3573	490.5	0.007051
238.5	0.3552	491.	0.003521
239.	0.3552	491.5	0.003521
239.5	0.3544	492.	0.00449
240.	0.3575	492.5	0.001414
240.5	0.355	493.	0.003222
241.	0.3481	493.5	0.003002
241.5	0.3471	494.	0.00547
242.	0.3463	494.5	0.00043
242.5	0.3495	495.	0.000214
243.	0.3446	495.6	0.000657
243.5	0.3443	496.	0.
244.	0.345	496.5	0.002352
244.5	0.3438	497.	0.001414
245.	0.3413	497.5	-0.001581
245.6	0.3448	498.	-0.008825

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
246.	0.3371	498.5	-0.01183
246.5	0.337	499.	-0.01171
247.	0.336	499.5	-0.007458
247.5	0.3316	500.	-0.001999
248.	0.3306	500.5	-0.007458
248.5	0.3291	501.	0.000881
249.	0.3323	501.5	-0.00497
249.5	0.3328	503.	505.
250.	0.3275	506.5	508.5
250.5	0.3309	510.	512.
251.	0.3238	513.5	515.5
251.5	0.3261	517.	519.
252.	0.3265		

SOLUTION

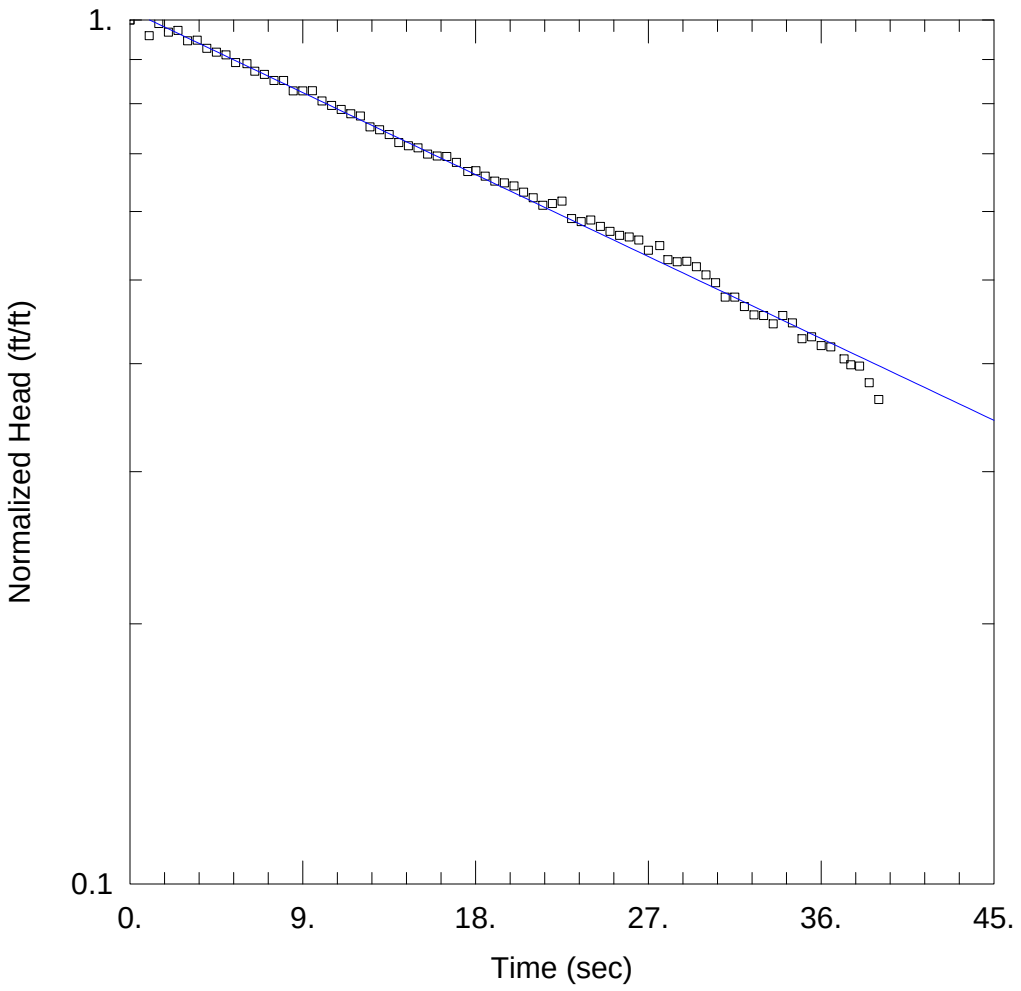
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.9525	ft/day
y0	1.662	ft

K = 0.000336 cm/sec
T = K*b = 95.25 ft²/day (1.024 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4B rh3.aqt
Date: 01/04/16 Time: 13:48:48

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4B)

Initial Displacement: 0.422 ft
Total Well Penetration Depth: 40. ft
Casing Radius: 0.083 ft
Static Water Column Height: 39.26 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.643 ft/day
y0 = 0.4326 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:49:02

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.422 ft
Static Water Column Height: 39.26 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 86

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-7	0.422	21.5	0.2575
0.5	0.4649	22.	0.2588
1.	0.4046	22.5	0.2604
1.5	0.418	23.	0.2485
2.	0.4084	23.5	0.2465
2.5	0.4104	24.	0.2476
3.	0.3991	24.5	0.2434
3.5	0.3999	25.	0.2402
4.	0.3912	25.5	0.2377
4.5	0.3872	26.	0.2366
5.	0.3845	26.5	0.2347
5.5	0.3766	27.	0.2284
6.093	0.3755	27.6	0.2313
6.5	0.3681	28.02	0.2227
7.	0.365	28.5	0.2215
7.5	0.3592	29.	0.2218
8.	0.3592	29.5	0.2186
8.5	0.3494	30.	0.2139
9.	0.3492	30.5	0.2095
9.501	0.3495	31.	0.2016
10.	0.34	31.5	0.2016
10.5	0.336	32.	0.1966
11.	0.3324	32.5	0.1923
11.5	0.3286	33.	0.192
12.	0.3267	33.5	0.1877
12.5	0.3173	34.	0.1919
13.	0.315	34.5	0.1882
13.5	0.3109	35.	0.1804
14.	0.3044	35.5	0.1814
14.5	0.3017	36.	0.1772

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.3	36.5	0.1766
15.5	0.2951	37.2	0.171
16.	0.2937	37.55	0.1684
16.5	0.2932	38.	0.1677
17.	0.2887	38.5	0.1605
17.6	0.2818	39.	0.1534
18.02	0.2824	40.5	42.5
18.5	0.2782	44.	46.
19.	0.2746	47.55	49.5
19.5	0.2734	51.	53.
20.	0.2712	54.5	56.5
20.5	0.2667	58.2	60.
21.	0.2627	61.5	63.5

SOLUTION

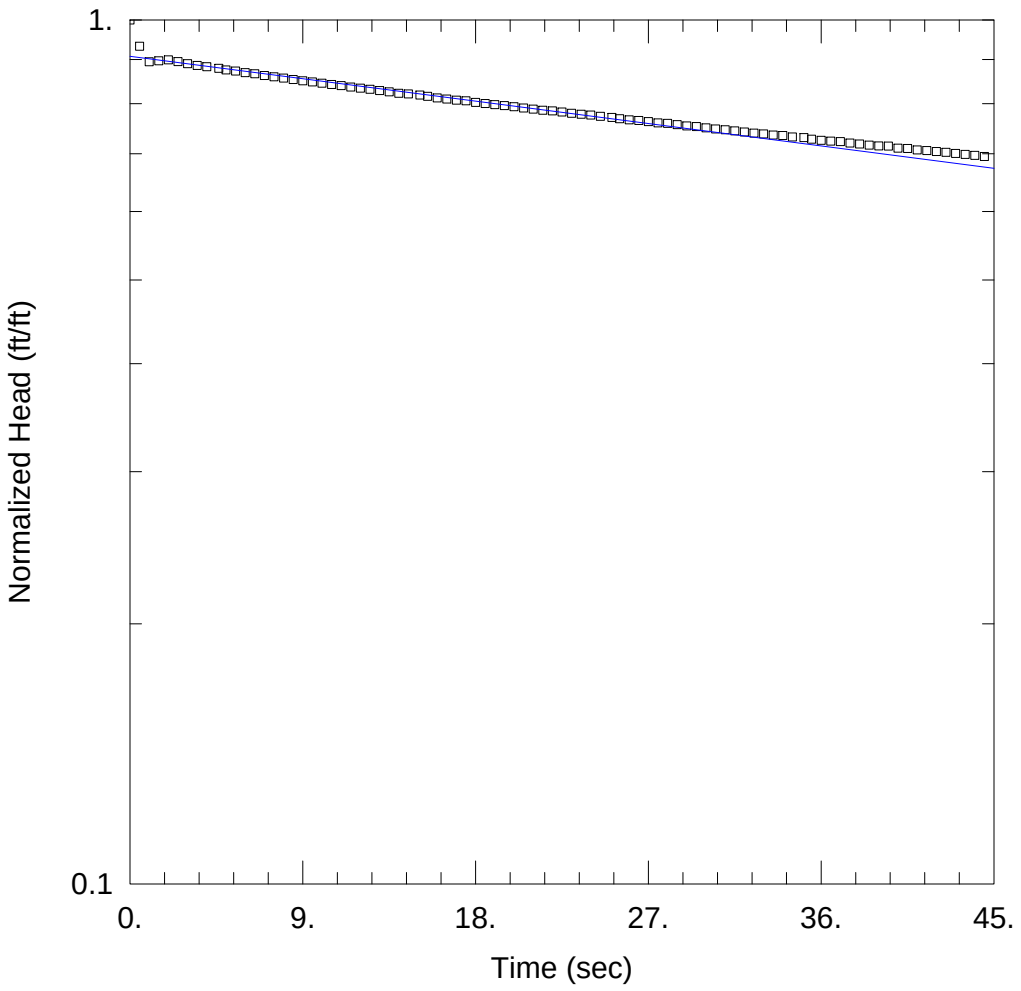
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.643	ft/day
y0	0.4326	ft

K = 0.001285 cm/sec
T = K*b = 364.3 ft²/day (3.917 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4B rh4.aqt
Date: 01/04/16 Time: 13:49:28

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4B)

Initial Displacement: 5.637 ft
Total Well Penetration Depth: 40. ft
Casing Radius: 0.083 ft
Static Water Column Height: 39.26 ft
Screen Length: 10. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.9959 ft/day
y0 = 5.117 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:49:40

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 5.637 ft
Static Water Column Height: 39.26 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 362

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-6	5.637	90.5	3.128
0.501	5.255	91.	3.12
1.001	5.042	91.5	3.114
1.501	5.055	92.	3.107
2.001	5.067	92.5	3.098
2.501	5.044	93.	3.092
3.001	5.016	93.5	3.082
3.501	4.993	94.	3.073
4.005	4.977	94.5	3.064
4.627	4.956	95.11	3.058
5.001	4.934	95.5	3.053
5.501	4.919	96.	3.048
6.001	4.898	96.5	3.047
6.501	4.884	97.	3.035
7.001	4.861	97.5	3.025
7.501	4.844	98.	3.015
8.001	4.828	98.5	3.013
8.501	4.81	99.	3.004
9.001	4.793	99.5	2.996
9.501	4.778	100.	2.999
10.	4.763	100.5	2.985
10.5	4.747	101.	2.975
11.	4.732	101.5	2.975
11.5	4.715	102.	2.967
12.	4.7	102.5	2.959
12.5	4.685	103.	2.954
13.	4.671	103.5	2.941
13.5	4.654	104.	2.936
14.	4.637	104.5	2.93
14.5	4.628	105.1	2.925

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.1	4.614	105.5	2.914
15.5	4.599	106.	2.911
16.	4.58	106.5	2.909
16.5	4.566	107.	2.896
17.	4.552	107.5	2.892
17.5	4.544	108.	2.884
18.	4.526	108.5	2.879
18.5	4.512	109.	2.872
19.	4.499	109.5	2.863
19.5	4.486	110.	2.856
20.	4.474	110.5	2.85
20.5	4.458	111.	2.844
21.	4.445	111.5	2.837
21.5	4.432	112.	2.831
22.	4.423	112.5	2.829
22.5	4.411	113.	2.821
23.	4.395	113.5	2.818
23.5	4.385	114.	2.808
24.	4.375	114.5	2.803
24.5	4.361	115.1	2.792
25.11	4.348	115.5	2.789
25.5	4.332	116.	2.778
26.	4.32	116.5	2.773
26.5	4.312	117.	2.769
27.	4.3	117.5	2.76
27.5	4.285	118.	2.757
28.	4.278	118.5	2.747
28.5	4.264	119.	2.741
29.	4.25	119.5	2.737
29.5	4.242	120.	2.73
30.	4.228	120.5	2.723
30.5	4.216	121.	2.717
31.	4.207	121.5	2.711
31.5	4.195	122.	2.705
32.	4.182	122.5	2.701
32.5	4.169	123.	2.693
33.	4.161	123.5	2.691
33.5	4.148	124.	2.684
34.	4.144	124.5	2.681
34.5	4.126	125.1	2.668
35.11	4.12	125.5	2.669
35.5	4.102	126.	2.657
36.	4.091	126.5	2.651
36.5	4.081	127.	2.644
37.	4.075	127.5	2.639
37.5	4.061	128.	2.635
38.	4.051	128.5	2.629
38.5	4.038	129.	2.62
39.	4.029	129.5	2.61
39.5	4.027	130.	2.61
40.	4.005	130.5	2.601
40.5	4.002	131.	2.598
41.	3.987	131.5	2.588
41.5	3.98	132.	2.581
42.	3.969	132.5	2.577
42.5	3.961	133.	2.577
43.	3.949	133.5	2.568
43.5	3.94	134.	2.559
44.	3.929	134.5	2.554
44.5	3.918	135.1	2.552
45.12	3.907	135.5	2.547
45.54	3.9	136.	2.54
46.	3.886	136.5	2.533
46.5	3.877	137.	2.53
47.	3.871	137.5	2.525
47.5	3.861	138.	2.52

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	3.847	138.5	2.511
48.5	3.835	139.	2.508
49.	3.83	139.5	2.501
49.5	3.815	140.	2.498
50.	3.803	140.5	2.489
50.5	3.8	141.	2.48
51.	3.792	141.5	2.476
51.5	3.777	142.	2.47
52.02	3.772	142.5	2.467
52.5	3.763	143.	2.457
53.	3.755	143.5	2.458
53.5	3.744	144.	2.451
54.	3.735	144.5	2.446
54.5	3.728	145.1	2.44
55.12	3.714	145.5	2.436
55.54	3.703	146.	2.426
56.	3.699	146.5	2.422
56.5	3.688	147.	2.417
57.	3.677	147.5	2.415
57.5	3.669	148.	2.405
58.	3.66	148.5	2.398
58.5	3.649	149.	2.396
59.	3.643	149.5	2.389
59.5	3.634	150.	2.39
60.	3.62	150.5	2.379
60.5	3.617	151.	2.372
61.	3.608	151.5	2.37
61.5	3.597	152.	2.366
62.	3.592	152.5	2.357
62.5	3.58	153.	2.354
63.	3.57	153.5	2.346
63.5	3.562	154.	2.34
64.	3.555	154.5	2.335
64.5	3.546	155.1	2.336
65.12	3.535	155.5	2.33
65.54	3.528	156.	2.322
66.	3.519	156.5	2.32
66.5	3.51	157.	2.313
67.	3.504	157.5	2.31
67.5	3.493	158.	2.302
68.	3.485	158.5	2.293
68.5	3.474	159.	2.285
69.	3.468	159.5	2.286
69.5	3.46	160.	2.28
70.	3.452	160.5	2.275
70.5	3.443	161.	2.271
71.	3.433	161.5	2.263
71.5	3.423	162.	2.261
72.	3.418	162.5	2.257
72.5	3.406	163.	2.256
73.	3.4	163.5	2.25
73.5	3.392	164.	2.242
74.	3.386	164.5	2.236
74.5	3.378	165.1	2.235
75.11	3.373	165.5	2.23
75.5	3.358	166.	2.228
76.01	3.348	166.5	2.224
76.5	3.346	167.	2.217
77.	3.337	167.5	2.21
77.5	3.33	168.	2.207
78.	3.321	168.5	2.201
78.5	3.315	169.	2.195
79.	3.301	169.5	2.19
79.5	3.296	170.	2.186
80.	3.291	170.5	2.178
80.5	3.279	171.	2.173

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	3.273	171.5	2.169
81.5	3.268	172.	2.167
82.	3.259	172.5	2.159
82.5	3.249	173.	2.146
83.	3.245	173.5	2.149
83.5	3.237	174.	2.152
84.	3.231	174.5	2.14
84.5	3.22	175.	2.134
85.11	3.216	175.5	2.133
85.5	3.206	176.	2.128
86.	3.192	176.5	2.119
86.5	3.193	177.	2.119
87.	3.186	177.5	2.112
87.5	3.176	178.	2.107
88.	3.166	178.5	2.109
88.5	3.159	179.	2.1
89.	3.149	179.5	2.095
89.5	3.144	181.	183.
90.	3.135	184.5	186.5

SOLUTION

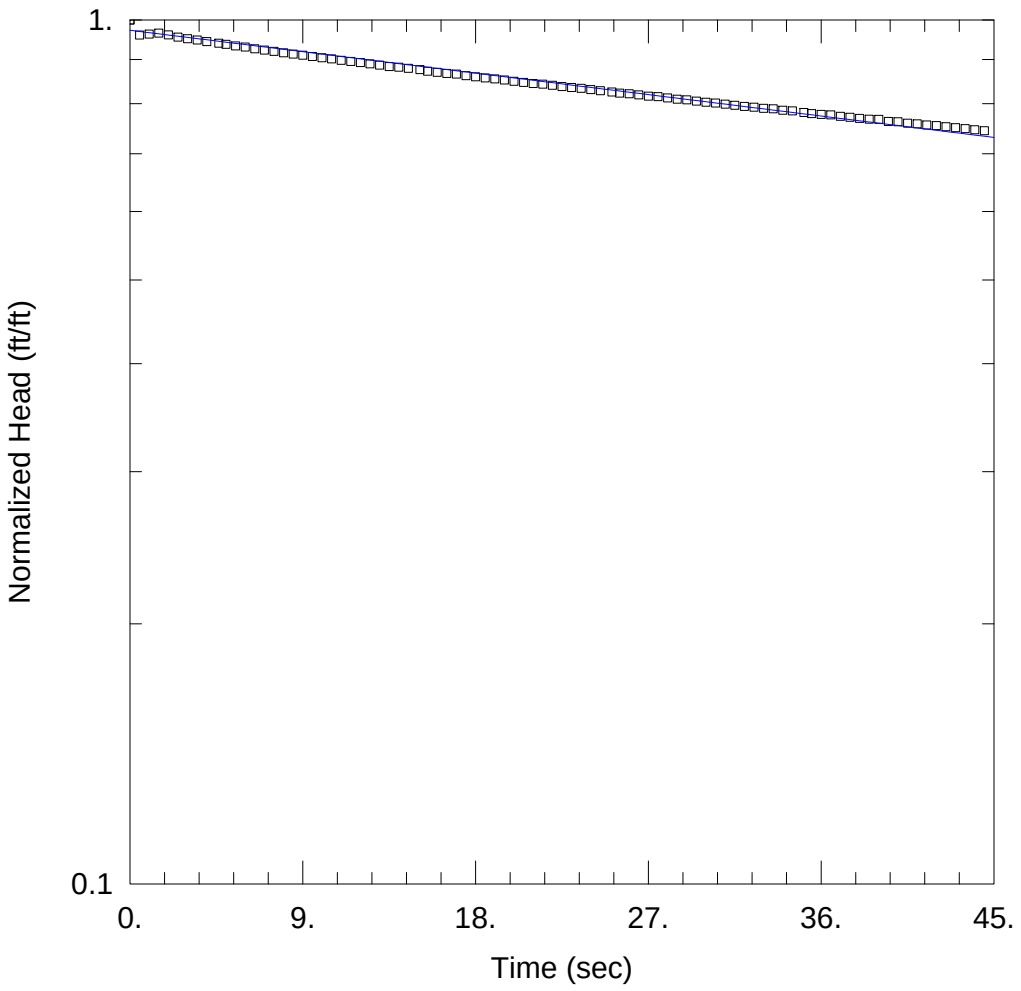
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.9959	ft/day
y0	5.117	ft

K = 0.0003513 cm/sec
T = K*b = 99.59 ft²/day (1.071 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4B rh4-2.aqt
Date: 01/04/16 Time: 13:49:58

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4B
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4B)

Initial Displacement: 5.25 ft Static Water Column Height: 39.26 ft
Total Well Penetration Depth: 40. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.9529 ft/day y0 = 5.107 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:50:18

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 5.25 ft
Static Water Column Height: 39.26 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.083 ft
Screen Length: 10. ft
Total Well Penetration Depth: 40. ft

No. of Observations: 767

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-9	5.25	192.	1.985
0.501	5.042	192.5	1.98
1.001	5.055	193.	1.978
1.501	5.067	193.5	1.966
2.001	5.044	194.	1.965
2.501	5.016	194.5	1.965
3.001	4.993	195.	1.961
3.501	4.977	195.5	1.952
4.005	4.956	196.	1.943
4.627	4.934	196.5	1.944
5.001	4.919	197.	1.938
5.501	4.898	197.5	1.933
6.001	4.884	198.	1.936
6.501	4.861	198.5	1.931
7.001	4.844	199.	1.923
7.501	4.828	199.5	1.92
8.001	4.81	200.	1.916
8.501	4.793	200.5	1.908
9.001	4.778	201.	1.909
9.501	4.763	201.5	1.902
10.	4.747	202.	1.897
10.5	4.732	202.5	1.897
11.	4.715	203.	1.895
11.5	4.7	203.5	1.889
12.	4.685	204.	1.883
12.5	4.671	204.5	1.88
13.	4.654	205.	1.878
13.5	4.637	205.5	1.872
14.	4.628	206.	1.868
14.5	4.614	206.5	1.867

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.1	4.599	207.	1.861
15.5	4.58	207.5	1.857
16.	4.566	208.	1.851
16.5	4.552	208.5	1.848
17.	4.544	209.	1.842
17.5	4.526	209.5	1.839
18.	4.512	210.	1.833
18.5	4.499	210.5	1.827
19.	4.486	211.	1.828
19.5	4.474	211.5	1.82
20.	4.458	212.	1.819
20.5	4.445	212.5	1.814
21.	4.432	213.	1.814
21.5	4.423	213.5	1.809
22.	4.411	214.	1.808
22.5	4.395	214.5	1.804
23.	4.385	215.	1.8
23.5	4.375	215.5	1.794
24.	4.361	216.	1.792
24.5	4.348	216.5	1.792
25.11	4.332	217.	1.785
25.5	4.32	217.5	1.78
26.	4.312	218.	1.776
26.5	4.3	218.5	1.775
27.	4.285	219.	1.77
27.5	4.278	219.5	1.77
28.	4.264	220.	1.761
28.5	4.25	220.5	1.758
29.	4.242	221.	1.755
29.5	4.228	221.5	1.753
30.	4.216	222.	1.753
30.5	4.207	222.5	1.74
31.	4.195	223.	1.735
31.5	4.182	223.5	1.737
32.	4.169	224.	1.733
32.5	4.161	224.5	1.73
33.	4.148	225.	1.722
33.5	4.144	225.5	1.718
34.	4.126	226.	1.722
34.5	4.12	226.5	1.717
35.11	4.102	227.	1.714
35.5	4.091	227.5	1.709
36.	4.081	228.	1.707
36.5	4.075	228.5	1.702
37.	4.061	229.	1.703
37.5	4.051	229.5	1.691
38.	4.038	230.	1.689
38.5	4.029	230.5	1.687
39.	4.027	231.	1.687
39.5	4.005	231.5	1.679
40.	4.002	232.	1.681
40.5	3.987	232.5	1.672
41.	3.98	233.	1.67
41.5	3.969	233.5	1.666
42.	3.961	234.	1.659
42.5	3.949	234.5	1.657
43.	3.94	235.	1.656
43.5	3.929	235.5	1.653
44.	3.918	236.	1.65
44.5	3.907	236.5	1.644
45.12	3.9	237.	1.64
45.54	3.886	237.5	1.636
46.	3.877	238.	1.636
46.5	3.871	238.5	1.634
47.	3.861	239.	1.63
47.5	3.847	239.5	1.627

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	3.835	240.	1.628
48.5	3.83	240.5	1.618
49.	3.815	241.	1.616
49.5	3.803	241.5	1.614
50.	3.8	242.	1.611
50.5	3.792	242.5	1.608
51.	3.777	243.	1.601
51.5	3.772	243.5	1.599
52.02	3.763	244.	1.595
52.5	3.755	244.5	1.595
53.	3.744	245.	1.586
53.5	3.735	245.5	1.582
54.	3.728	246.	1.583
54.5	3.714	246.5	1.573
55.12	3.703	247.	1.572
55.54	3.699	247.5	1.572
56.	3.688	248.	1.565
56.5	3.677	248.5	1.568
57.	3.669	249.	1.562
57.5	3.66	249.5	1.558
58.	3.649	250.	1.555
58.5	3.643	250.5	1.556
59.	3.634	251.	1.545
59.5	3.62	251.5	1.546
60.	3.617	252.	1.548
60.5	3.608	252.5	1.543
61.	3.597	253.	1.536
61.5	3.592	253.5	1.54
62.	3.58	254.	1.533
62.5	3.57	254.5	1.526
63.	3.562	255.	1.524
63.5	3.555	255.5	1.524
64.	3.546	256.	1.506
64.5	3.535	256.5	1.505
65.12	3.528	257.	1.51
65.54	3.519	257.5	1.507
66.	3.51	258.	1.505
66.5	3.504	258.5	1.5
67.	3.493	259.	1.496
67.5	3.485	259.5	1.497
68.	3.474	260.	1.495
68.5	3.468	260.5	1.489
69.	3.46	261.	1.485
69.5	3.452	261.5	1.485
70.	3.443	262.	1.481
70.5	3.433	262.5	1.482
71.	3.423	263.	1.48
71.5	3.418	263.5	1.469
72.	3.406	264.	1.474
72.5	3.4	264.5	1.467
73.	3.392	265.	1.465
73.5	3.386	265.5	1.459
74.	3.378	266.	1.461
74.5	3.373	266.5	1.456
75.11	3.358	267.	1.449
75.5	3.348	267.5	1.446
76.01	3.346	268.	1.447
76.5	3.337	268.5	1.445
77.	3.33	269.	1.444
77.5	3.321	269.5	1.436
78.	3.315	270.	1.437
78.5	3.301	270.5	1.431
79.	3.296	271.	1.431
79.5	3.291	271.5	1.422
80.	3.279	272.	1.428
80.5	3.273	272.5	1.42

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
81.	3.268	273.	1.414
81.5	3.259	273.5	1.419
82.	3.249	274.	1.411
82.5	3.245	274.5	1.41
83.	3.237	275.	1.407
83.5	3.231	275.5	1.406
84.	3.22	276.	1.398
84.5	3.216	276.5	1.4
85.11	3.206	277.	1.398
85.5	3.192	277.5	1.391
86.	3.193	278.	1.393
86.5	3.186	278.5	1.383
87.	3.176	279.	1.386
87.5	3.166	279.5	1.384
88.	3.159	280.	1.383
88.5	3.149	280.5	1.377
89.	3.144	281.	1.377
89.5	3.135	281.5	1.374
90.	3.128	282.	1.37
90.5	3.12	282.5	1.368
91.	3.114	283.	1.361
91.5	3.107	283.5	1.364
92.	3.098	284.	1.362
92.5	3.092	284.5	1.357
93.	3.082	285.	1.356
93.5	3.073	285.5	1.351
94.	3.064	286.	1.346
94.5	3.058	286.5	1.348
95.11	3.053	287.	1.342
95.5	3.048	287.5	1.338
96.	3.047	288.	1.338
96.5	3.035	288.5	1.338
97.	3.025	289.	1.332
97.5	3.015	289.5	1.331
98.	3.013	290.	1.323
98.5	3.004	290.5	1.324
99.	2.996	291.	1.323
99.5	2.999	291.5	1.314
100.	2.985	292.	1.315
100.5	2.975	292.5	1.313
101.	2.975	293.	1.313
101.5	2.967	293.5	1.306
102.	2.959	294.	1.306
102.5	2.954	294.5	1.299
103.	2.941	295.	1.301
103.5	2.936	295.5	1.299
104.	2.93	296.	1.301
104.5	2.925	296.5	1.295
105.1	2.914	297.	1.294
105.5	2.911	297.5	1.291
106.	2.909	298.	1.288
106.5	2.896	298.5	1.285
107.	2.892	299.	1.279
107.5	2.884	299.5	1.281
108.	2.879	300.	1.275
108.5	2.872	300.5	1.277
109.	2.863	301.	1.276
109.5	2.856	301.5	1.268
110.	2.85	302.	1.267
110.5	2.844	302.5	1.262
111.	2.837	303.	1.264
111.5	2.831	303.5	1.259
112.	2.829	304.	1.262
112.5	2.821	304.5	1.252
113.	2.818	305.	1.255
113.5	2.808	305.5	1.253

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
114.	2.803	306.	1.249
114.5	2.792	306.5	1.247
115.1	2.789	307.	1.242
115.5	2.778	307.5	1.242
116.	2.773	308.	1.234
116.5	2.769	308.5	1.237
117.	2.76	309.	1.233
117.5	2.757	309.5	1.224
118.	2.747	310.	1.229
118.5	2.741	310.5	1.226
119.	2.737	311.	1.227
119.5	2.73	311.5	1.222
120.	2.723	312.	1.216
120.5	2.717	312.5	1.217
121.	2.711	313.	1.213
121.5	2.705	313.5	1.208
122.	2.701	314.	1.211
122.5	2.693	314.5	1.206
123.	2.691	315.	1.204
123.5	2.684	315.5	1.201
124.	2.681	316.	1.2
124.5	2.668	316.5	1.198
125.1	2.669	317.	1.192
125.5	2.657	317.5	1.188
126.	2.651	318.	1.186
126.5	2.644	318.5	1.191
127.	2.639	319.	1.187
127.5	2.635	319.5	1.179
128.	2.629	320.	1.182
128.5	2.62	320.5	1.177
129.	2.61	321.	1.179
129.5	2.61	321.5	1.173
130.	2.601	322.	1.168
130.5	2.598	322.5	1.17
131.	2.588	323.	1.167
131.5	2.581	323.5	1.169
132.	2.577	324.	1.162
132.5	2.577	324.5	1.162
133.	2.568	325.	1.157
133.5	2.559	325.5	1.158
134.	2.554	326.	1.157
134.5	2.552	326.5	1.147
135.1	2.547	327.	1.15
135.5	2.54	327.5	1.149
136.	2.533	328.	1.147
136.5	2.53	328.5	1.15
137.	2.525	329.	1.14
137.5	2.52	329.5	1.142
138.	2.511	330.	1.138
138.5	2.508	330.5	1.137
139.	2.501	331.	1.131
139.5	2.498	331.5	1.123
140.	2.489	332.	1.127
140.5	2.48	332.5	1.127
141.	2.476	333.	1.126
141.5	2.47	333.5	1.123
142.	2.467	334.	1.117
142.5	2.457	334.5	1.12
143.	2.458	335.	1.116
143.5	2.451	335.5	1.116
144.	2.446	336.	1.111
144.5	2.44	336.5	1.109
145.1	2.436	337.	1.109
145.5	2.426	337.5	1.107
146.	2.422	338.	1.104
146.5	2.417	338.5	1.102

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
147.	2.415	339.	1.104
147.5	2.405	339.5	1.101
148.	2.398	340.	1.097
148.5	2.396	340.5	1.091
149.	2.389	341.	1.09
149.5	2.39	341.5	1.089
150.	2.379	342.	1.087
150.5	2.372	342.5	1.085
151.	2.37	343.	1.081
151.5	2.366	343.5	1.082
152.	2.357	344.	1.074
152.5	2.354	344.5	1.08
153.	2.346	345.	1.079
153.5	2.34	345.5	1.073
154.	2.335	346.	1.073
154.5	2.336	346.5	1.07
155.1	2.33	347.	1.071
155.5	2.322	347.5	1.068
156.	2.32	348.	1.066
156.5	2.313	348.5	1.062
157.	2.31	349.	1.061
157.5	2.302	349.5	1.063
158.	2.293	350.	1.059
158.5	2.285	350.5	1.056
159.	2.286	351.	1.053
159.5	2.28	351.5	1.049
160.	2.275	352.	1.051
160.5	2.271	352.5	1.046
161.	2.263	353.	1.045
161.5	2.261	353.5	1.041
162.	2.257	354.	1.039
162.5	2.256	354.5	1.035
163.	2.25	355.	1.029
163.5	2.242	355.5	1.031
164.	2.236	356.	1.034
164.5	2.235	356.5	1.035
165.1	2.23	357.	1.029
165.5	2.228	357.5	1.022
166.	2.224	358.	1.023
166.5	2.217	358.5	1.025
167.	2.21	359.	1.017
167.5	2.207	359.5	1.02
168.	2.201	360.	1.017
168.5	2.195	360.5	1.017
169.	2.19	361.	1.014
169.5	2.186	361.5	1.013
170.	2.178	362.	1.012
170.5	2.173	362.5	1.006
171.	2.169	363.	1.008
171.5	2.167	363.5	1.003
172.	2.159	364.	1.004
172.5	2.146	364.5	1.004
173.	2.149	365.	0.9978
173.5	2.152	365.5	0.9918
174.	2.14	366.	0.9936
174.5	2.134	366.5	0.9895
175.	2.133	367.	0.9924
175.5	2.128	367.5	0.9928
176.	2.119	368.	0.9799
176.5	2.119	368.5	0.9835
177.	2.112	369.	0.9831
177.5	2.107	369.5	0.9813
178.	2.109	370.	0.9764
178.5	2.1	370.5	0.9793
179.	2.095	371.	0.9737
179.5	2.089	371.5	0.9702

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
180.	2.085	372.	0.9707
180.5	2.076	372.5	0.973
181.	2.076	373.	0.965
181.5	2.075	373.5	0.9644
182.	2.066	374.	0.9707
182.5	2.064	374.5	0.9668
183.	2.053	375.	0.9628
183.5	2.043	375.5	0.9584
184.	2.045	376.	0.9609
184.5	2.047	376.5	0.9442
185.	2.042	377.	0.9447
185.5	2.031	377.5	0.95
186.	2.032	378.	0.9455
186.5	2.031	378.5	0.9373
187.1	2.025	379.	0.9416
187.5	2.019	379.5	0.9438
188.	2.016	380.	0.9421
188.5	2.011	380.5	0.9414
189.	2.006	381.	0.9322
189.5	2.006	381.5	0.9367
190.	2.001	382.	0.9371
190.5	1.99	383.5	385.5
191.	1.992	387.	389.1
191.6	1.987		

SOLUTION

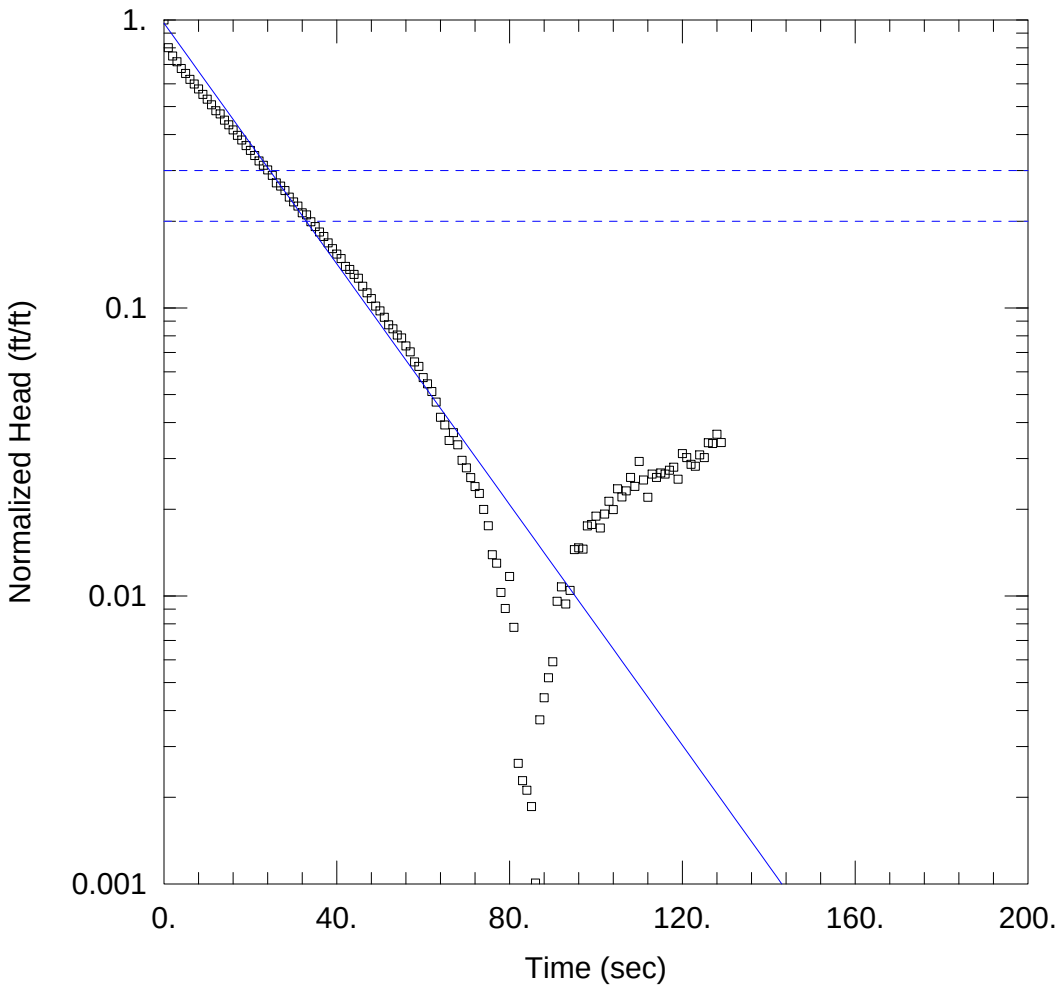
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.044

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.9529	ft/day
y0	5.107	ft

K = 0.0003361 cm/sec
T = K*b = 95.29 ft²/day (1.025 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4C rh1-3.aqt
Date: 01/04/16 Time: 13:50:59

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4C)

Initial Displacement: 2.45 ft Static Water Column Height: 82.92 ft
Total Well Penetration Depth: 85. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 7.772 ft/day y0 = 2.388 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:51:12

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.45 ft
Static Water Column Height: 82.92 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 85. ft

No. of Observations: 139

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-8	2.46	70.	0.0682
1.001	1.962	71.	0.06309
2.001	1.836	72.	0.05871
3.001	1.753	73.	0.05559
4.001	1.662	74.	0.04894
5.001	1.597	75.09	0.04294
6.001	1.523	76.	0.03406
7.001	1.468	77.	0.03182
8.001	1.41	78.	0.02519
9.001	1.35	79.	0.02217
10.	1.3	80.	0.02864
11.	1.242	81.	0.01905
12.01	1.185	82.	0.006422
13.	1.155	83.	0.005592
14.	1.099	84.01	0.00518
15.	1.059	85.09	0.004548
16.	1.017	86.	0.002468
17.	0.9735	87.	0.009096
18.	0.9376	88.	0.01085
19.	0.8969	89.	0.01274
20.	0.863	90.	0.01448
21.	0.8286	91.	0.02348
22.	0.7933	92.	0.02635
23.	0.7663	93.	0.02297
24.	0.7385	94.	0.02561
25.09	0.7069	95.	0.03549
26.	0.6657	96.02	0.036
27.	0.6493	97.	0.0356
28.	0.6258	98.	0.04288
29.	0.5943	99.	0.04336

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
30.	0.5718	100.	0.04637
31.	0.5529	101.	0.04216
32.	0.5242	102.	0.04712
33.	0.5152	103.	0.05221
34.	0.4879	104.	0.04888
35.	0.4697	105.	0.05773
36.01	0.4494	106.	0.05401
37.	0.4339	107.	0.05676
38.	0.4123	108.	0.06316
39.	0.3935	109.	0.05878
40.	0.377	110.	0.07178
41.	0.3635	111.	0.06188
42.	0.3415	112.	0.05389
43.	0.3333	113.	0.0649
44.	0.3204	114.	0.06316
45.	0.3104	115.	0.06552
46.	0.2915	116.	0.0649
47.	0.2766	117.	0.0669
48.	0.2641	118.	0.06853
49.	0.2487	119.	0.06227
50.	0.2392	120.	0.0764
51.	0.2273	121.	0.07401
52.	0.214	122.	0.07014
53.	0.2074	123.	0.06907
54.	0.1973	124.	0.07565
55.	0.1928	125.1	0.07401
56.	0.1808	126.	0.08341
57.	0.1724	127.	0.08291
58.	0.1592	128.	0.08929
59.	0.1535	129.	0.08353
60.	0.1404	133.	137.
61.	0.1335	141.	145.1
62.	0.1256	149.	153.
63.	0.1154	157.	161.
64.	0.1023	165.	169.
65.	0.09614	173.	177.
66.	0.08486	181.	185.
67.	0.09036	189.	193.
68.	0.08198	197.	201.
69.	0.07247		

SOLUTION

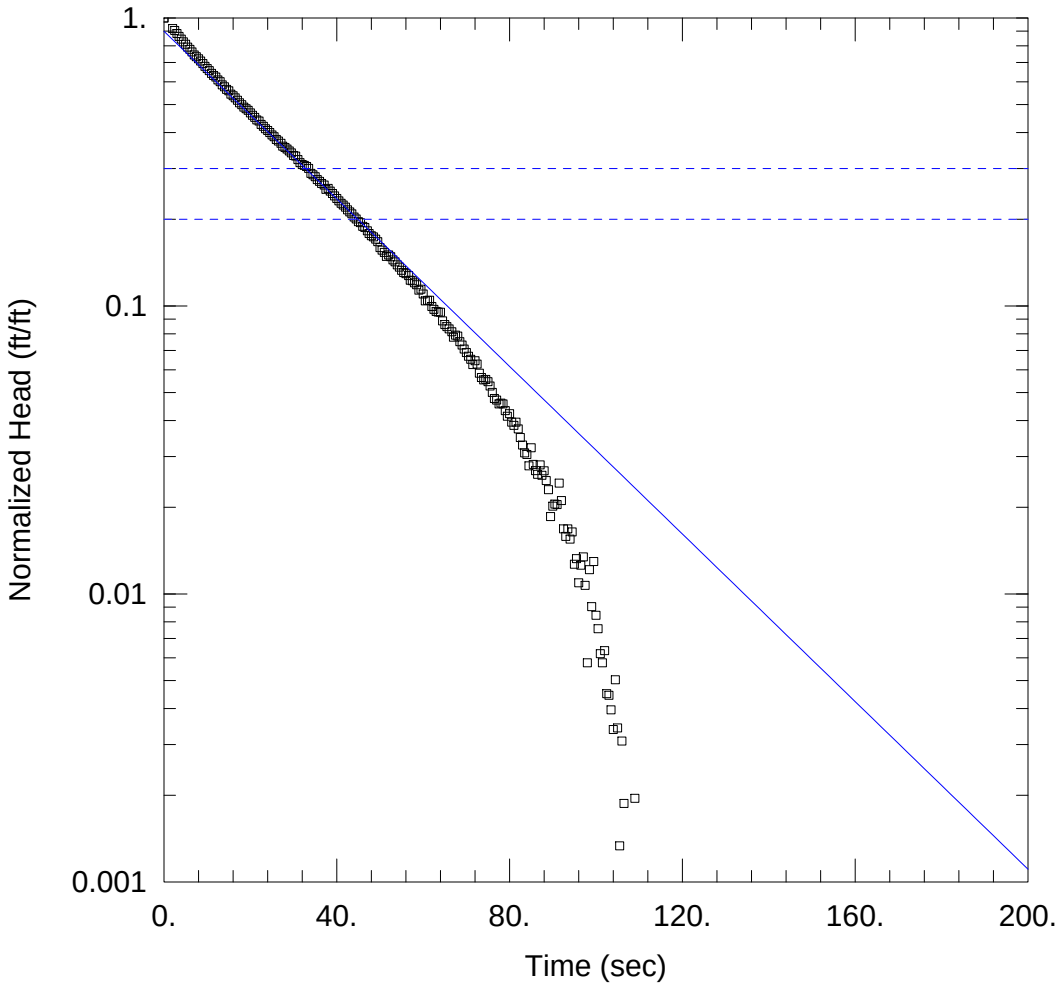
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.427

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	7.772	ft/day
y0	2.388	ft

K = 0.002742 cm/sec
T = K*b = 777.2 ft²/day (8.357 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4C rh2.aqt
Date: 01/04/16 Time: 13:51:36

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4C)

Initial Displacement: 2.57 ft Static Water Column Height: 82.92 ft
Total Well Penetration Depth: 85. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 5.411 ft/day y0 = 2.311 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:51:50

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.57 ft
Static Water Column Height: 82.92 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 85. ft

No. of Observations: 268

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-11	2.57	67.	0.2001
0.5	2.816	67.5	0.2034
1.	3.145	68.	0.2019
1.5	2.642	68.5	0.1931
2.	2.36	69.	0.188
2.5	2.325	69.5	0.182
3.	2.268	70.	0.1771
3.5	2.216	70.5	0.1719
4.	2.169	71.	0.1679
4.5	2.123	71.5	0.1607
5.	2.084	72.	0.1658
5.5	2.035	72.5	0.1615
6.007	1.999	73.	0.1501
6.5	1.959	73.5	0.1451
7.	1.911	74.	0.1423
7.5	1.885	74.5	0.1427
8.	1.854	75.	0.1403
8.5	1.82	75.5	0.1354
9.	1.784	76.	0.1287
9.5	1.746	76.5	0.1227
10.	1.715	77.	0.121
10.5	1.687	77.59	0.1174
11.	1.65	78.	0.1182
11.5	1.623	78.5	0.1174
12.	1.603	79.	0.1113
12.5	1.565	79.5	0.1064
13.	1.544	80.	0.1086
13.5	1.504	80.5	0.1015
14.	1.482	81.	0.0989
14.5	1.451	81.5	0.1014

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	1.436	82.	0.09614
15.5	1.398	82.5	0.08976
16.	1.38	83.	0.0845
16.5	1.356	83.5	0.07938
17.	1.331	84.	0.07838
17.5	1.303	84.5	0.07156
18.01	1.284	85.	0.0827
18.5	1.26	85.5	0.07238
19.	1.243	86.	0.06888
19.5	1.228	86.5	0.06686
20.	1.203	87.09	0.07212
20.5	1.18	87.5	0.06636
21.	1.161	88.	0.06876
21.5	1.138	88.5	0.0636
22.	1.126	89.	0.05911
22.5	1.097	89.5	0.04773
23.	1.081	90.	0.05185
23.5	1.06	90.5	0.05273
24.	1.045	91.	0.05247
24.5	1.028	91.5	0.06231
25.	1.008	92.	0.05423
25.5	0.9937	92.5	0.04322
26.	0.9727	93.	0.04072
26.5	0.9604	93.5	0.04322
27.09	0.9432	94.	0.03984
27.5	0.9224	94.5	0.04222
28.	0.913	95.	0.03258
28.5	0.9011	95.5	0.03408
29.	0.8873	96.	0.02808
29.5	0.8738	96.5	0.03233
30.	0.8557	97.09	0.03454
30.5	0.8512	97.5	0.02752
31.	0.828	98.	0.01483
31.5	0.8083	98.5	0.03122
32.	0.7955	99.	0.02321
32.5	0.7905	99.5	0.03329
33.	0.7837	100.	0.02166
33.5	0.7717	100.5	0.01945
34.	0.7413	101.	0.01593
34.5	0.7331	101.5	0.01483
35.	0.7219	102.	0.01633
35.5	0.7057	102.5	0.01157
36.	0.696	103.	0.01143
36.5	0.6841	103.5	0.01017
37.09	0.6753	104.	0.008696
37.5	0.6527	104.5	0.01294
38.	0.6575	105.	0.008804
38.5	0.6438	105.5	0.003429
39.	0.6309	106.	0.007927
39.5	0.6191	106.5	0.004811
40.	0.6067	107.1	-0.000821
40.5	0.5952	107.5	-0.001451
41.	0.584	108.	-0.001817
41.5	0.5754	108.5	-0.000821
42.	0.566	109.	0.005012
42.5	0.554	109.5	-0.007705
43.	0.545	110.	-0.001731
43.5	0.5369	110.5	-0.006954
44.	0.5228	111.	-0.006716
44.5	0.5149	111.5	-0.009096
45.	0.5042	112.	-0.006256
45.5	0.5003	112.5	-0.01159
46.	0.4857	113.	-0.01034
46.5	0.4813	113.5	-0.02477
47.09	0.4684	114.	-0.01371
47.5	0.4583	114.5	-0.01246

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.4501	115.	-0.01721
48.5	0.4465	115.5	-0.01284
49.	0.4381	116.	-0.008121
49.5	0.4294	116.7	-0.02406
50.	0.4098	117.	-0.01971
50.5	0.4015	117.5	-0.03452
51.	0.3942	118.	-0.01985
51.5	0.3817	118.5	-0.01835
52.	0.3861	119.	-0.02172
52.5	0.3811	119.5	-0.02383
53.	0.3714	120.	-0.01963
53.5	0.3657	120.5	-0.03031
54.	0.3569	121.	-0.03299
54.5	0.3504	121.5	-0.03723
55.	0.3414	122.	-0.02975
55.5	0.3354	122.5	-0.03285
56.	0.3325	123.	-0.02848
56.65	0.3274	123.5	-0.0321
57.	0.3154	124.	-0.03062
57.5	0.3145	124.5	-0.02948
58.	0.309	125.	-0.02786
58.5	0.3046	126.7	128.5
59.	0.2916	130.	132.
59.5	0.2938	133.5	135.5
60.	0.2826	137.1	139.
60.5	0.2674	140.5	142.5
61.	0.2684	144.	146.
61.5	0.269	147.5	149.5
62.	0.2558	151.	153.
62.5	0.2501	154.5	156.5
63.	0.2458	158.	160.
63.5	0.2445	161.5	163.5
64.	0.2443	165.	167.
64.5	0.2279	168.5	170.5
65.	0.2214	172.	174.
65.5	0.2178	175.5	177.5
66.	0.214	179.	181.
66.65	0.209	182.5	184.5

SOLUTION

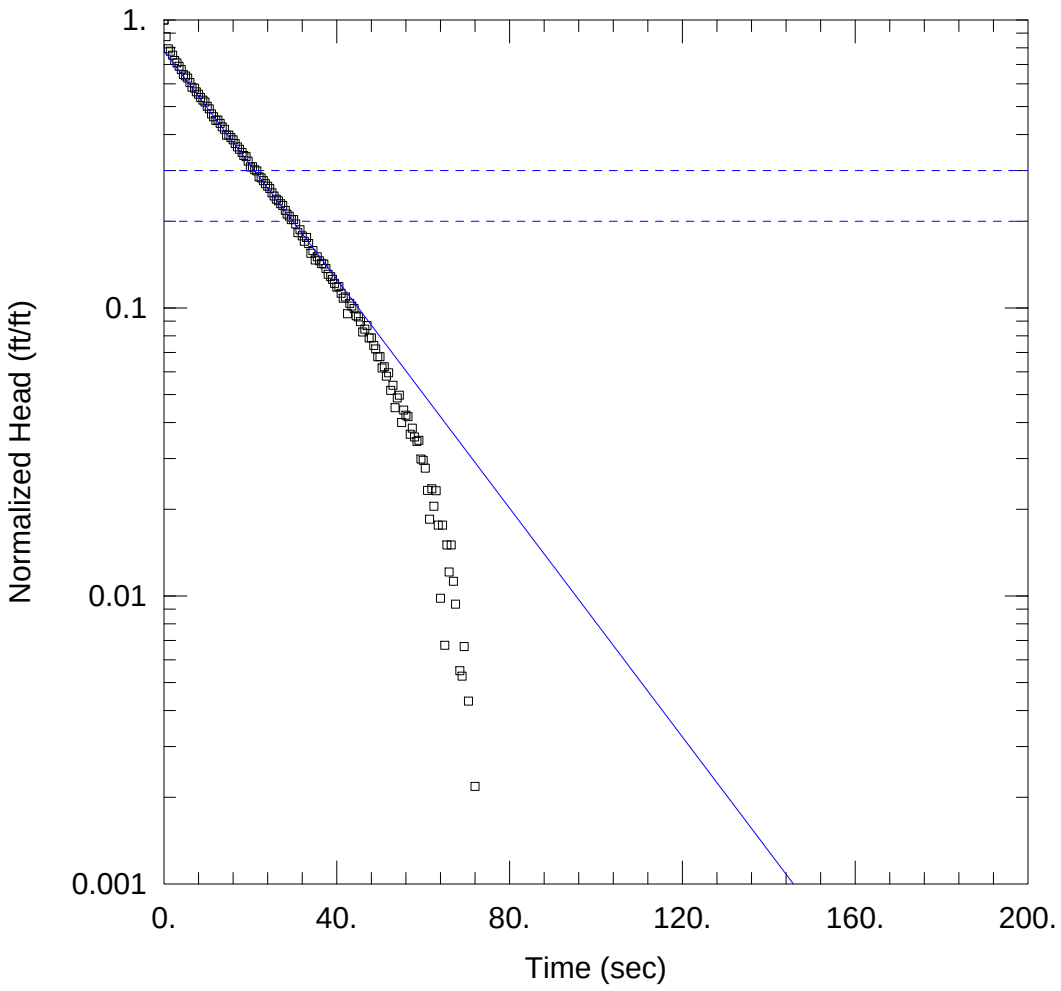
Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.427

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	5.411	ft/day
y0	2.311	ft

K = 0.001909 cm/sec
T = K*b = 541.1 ft²/day (5.818 sq. cm/sec)



WELL TEST ANALYSIS

Data Set: P:\...\MW-4C rh3.aqt
Date: 01/04/16 Time: 13:52:13

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Well: MW-4C
Test Date: 1/12/2010

AQUIFER DATA

Saturated Thickness: 100. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-4C)

Initial Displacement: 1.59 ft Static Water Column Height: 82.92 ft
Total Well Penetration Depth: 85. ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 7.385 ft/day y0 = 1.243 ft

Data Set: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.0 Project Documents\7.3 F
Date: 01/04/16
Time: 13:52:26

PROJECT INFORMATION

Company: AECOM
Client: Equity
Project: 60137107
Location: Brooklyn, NY
Test Date: 1/12/2010
Test Well: MW-4C

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 0.1

SLUG TEST WELL DATA

Test Well: MW-4C

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.59 ft
Static Water Column Height: 82.92 ft
Casing Radius: 0.083 ft
Well Radius: 0.083 ft
Well Skin Radius: 0.25 ft
Screen Length: 10. ft
Total Well Penetration Depth: 85. ft

No. of Observations: 230

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
1.0E-7	1.59	57.5	0.0608
0.5	1.391	58.	0.05666
1.	1.262	58.59	0.05466
1.5	1.238	59.	0.05516
2.	1.198	59.5	0.04751
2.5	1.149	60.	0.04703
3.	1.128	60.5	0.04415
3.5	1.097	61.	0.03694
4.	1.069	61.5	0.02937
4.506	1.028	62.	0.03746
5.	1.016	62.5	0.03258
5.5	0.9991	63.	0.03689
6.	0.964	63.5	0.02801
6.5	0.929	64.	0.0156
7.086	0.9211	64.5	0.02801
7.5	0.895	65.	0.01071
8.	0.8779	65.5	0.02389
8.5	0.8554	66.	0.01925
9.	0.8376	66.5	0.02389
9.5	0.8241	67.	0.01787
10.	0.7972	67.5	0.01488
10.5	0.7817	68.09	-0.000546
11.	0.7497	68.5	0.00874
11.5	0.7331	69.	0.00837
12.	0.7112	69.5	0.01061
12.5	0.7147	70.	-0.008057
13.	0.6953	70.5	0.006861
13.5	0.6764	71.	-0.002843
14.	0.663	71.5	0.000978
14.5	0.6324	72.	0.003466

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
15.	0.6336	72.5	-0.01606
15.5	0.6202	73.	-0.001506
16.	0.6092	73.5	-0.005529
16.5	0.5921	74.	-0.005012
17.	0.5761	74.5	-0.01637
17.5	0.5652	75.	-0.02533
18.08	0.5507	75.5	-0.02721
18.5	0.5375	76.	-0.01805
19.	0.533	76.5	-0.01379
19.5	0.514	77.	-0.02651
20.	0.4905	77.5	-0.0148
20.5	0.492	78.08	-0.01941
21.	0.4798	78.5	-0.02175
21.5	0.4756	79.	-0.02179
22.	0.4534	79.5	-0.02505
22.5	0.4496	80.	-0.02642
23.	0.4398	80.5	-0.01955
23.5	0.4295	81.	-0.0305
24.	0.4204	81.5	-0.02255
24.5	0.4133	82.	-0.03156
25.	0.3992	82.5	-0.02793
25.5	0.3892	83.	-0.02818
26.	0.379	83.5	-0.03017
26.5	0.3744	84.	-0.0308
27.	0.3661	84.5	-0.03393
27.5	0.3607	85.	-0.0318
28.08	0.3468	85.5	-0.03507
28.5	0.3368	86.	-0.03405
29.	0.3312	86.5	-0.04769
29.5	0.3219	87.02	-0.04494
30.	0.3222	87.5	-0.04256
30.5	0.311	88.08	-0.03768
31.	0.2901	88.5	-0.04019
31.5	0.2972	89.	-0.04794
32.	0.2828	89.5	-0.04494
32.5	0.271	90.	-0.04194
33.	0.2794	90.5	-0.04632
33.5	0.2662	91.	-0.0447
34.	0.2462	91.5	-0.04656
34.5	0.2516	92.	-0.04744
35.	0.2332	92.5	-0.04719
35.5	0.2392	93.	-0.04933
36.	0.2317	93.5	-0.04945
36.5	0.2268	94.	-0.04994
37.	0.226	94.5	-0.04473
37.5	0.218	95.	-0.04323
38.	0.2081	95.5	-0.04908
38.59	0.2041	96.	-0.04397
39.	0.1997	96.5	-0.05331
39.5	0.1936	97.	-0.05496
40.	0.1877	97.5	-0.05383
40.5	0.1885	98.	-0.05606
41.	0.1788	98.59	-0.05431
41.5	0.1717	99.	-0.05158
42.	0.1735	99.5	-0.05508
42.5	0.1518	100.	-0.0557
43.	0.1649	100.5	-0.05855
43.5	0.1614	101.	-0.0547
44.	0.1583	101.5	-0.05621
44.5	0.1492	102.	-0.05261
45.	0.148	102.5	-0.05536
45.5	0.1426	103.	-0.06621
46.	0.1312	103.5	-0.06333
46.5	0.1342	104.	-0.0686
47.	0.138	104.5	-0.07552
47.5	0.1251	105.	-0.06075

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
48.	0.125	105.5	-0.07209
48.59	0.1177	106.	-0.05721
49.	0.1145	106.5	-0.05733
49.5	0.1076	108.	110.
50.	0.1077	111.5	113.5
50.5	0.09832	115.	117.
51.	0.09934	118.6	120.5
51.5	0.09213	122.	124.
52.	0.0947	125.5	127.5
52.5	0.08226	129.	131.
53.	0.08569	132.5	134.5
53.5	0.07157	136.	138.1
54.	0.07743	139.5	141.5
54.5	0.07917	143.	145.
55.	0.06354	146.5	148.5
55.5	0.07029	150.	152.
56.	0.06742	153.5	155.5
56.5	0.06666	157.	159.
57.	0.05791	160.5	162.5

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
ln(Re/rw): 5.427

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	7.385	ft/day
y0	1.243	ft

K = 0.002605 cm/sec
T = K*b = 738.5 ft²/day (7.941 sq. cm/sec)

Appendix I

Community Air Monitoring Program Records

RI (2009)

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.: 01765-076-300.
Site Eng.: VIPUL
Site H&S Officer:

Date	Initial	Time	~~Location~~ D	~~PID/FID PPM~~ U	~~O_2%~~ Area	~~LEL%~~	Dräeger Tubes ____ ____	Dräeger Tubes ____ ____	Dräeger Tubes ____ ____	Noise ~~Other~~ dB.
9/22/09	VM	7:00	0/0.021	0/0.031	0					
		7:30	0/0.053	0/0.031	0.3					
		8:00	0/0.015	0/0.018	0					
		8:30	0.6/0.127	0/0.027	0.2					
		8:45	01/0.032	0/0.026	0.1					
		9:00	0.3/0.080	0/0.052	0.2					76.1
		9:15	0.6/0.316	0/0.032	0.1					75.6
		9:30	0.1/0.049	0/0.028	0.1					74.4
		9:45	0.2/0.037	0/0.017	0					90.6
		10:00	0.1/0.012	0/0.032	0					88.3
		10:15	0.0/0.016	0/0.010	0					75
		10:30	0.0/0.021	0/0.034	0					73.6
		10:45	0.6/0.073	0/0.020	0					80.2
		11:00	0.6/0.046	0/0.018	0.1					93.4
		11:15	0.3/0.049	0/0.023	0.1					85.7
		11:30	0.3/0.036	0/0.019	0.0					77.5
		11:45	0.2/0.056	0.0/0.025	0					79.6
		12:10	0.3/0.049	0.0/0.017	0					84.8
		13:30	0.2/0.046	0/0.011	0					96.8
		13:45	0.3/0.035	0/0.020	0					94.8
		14:00	0.2/0.015	0/0.017	0					95.5
		14:15	0.2/0.028	0/0.019	0					70.3
		14:45	0.1/0.015	0/0.031	0					64.5
		15:00	0.1/0.013	0/0.049	0					85.3
		15:15	03/0.032	0/0.012	0					81.0

Crew wearing hearing protection when vactron running.

Air Quality Monitoring Record

Client: National Grid
Location: Brooklyn
Project Mgr.: Pete Cox

Project No.:
Site Eng.: VHB
Site H&S Officer:

Date	Initial	Time	~~Location~~ BD	PID/FID PPM BU	O2% Area	LEL%	Dräeger Tubes			Noise ~~Other~~ dB
9/23/09	YM	8:00	0.7/0.233	0/0.112	0.7					74.9
		8:30	0.9/0.219	0/0.173	0.6					91.9
		8:45	0.7/0.128	0/0.107	0					77.4
		9:15	0.7/0.139	0/0.189	0					74
		9:30	0.8/0.120	0/0.137	0					94.3
		9:45	0.5/0.087	0/0.045	0					90.9
		10:30	0.8/0.159	0/0.197	0					94.3
		10:45	0.8/0.116	0/0.104	0.1					98.5
		11:00	0.6/0.178	0/0.097	0					99
		12:45	0.4/0.48	0/0.031	0					98.2 93
		14:30	0.2/0.032	0/0.025	0					99.8
		14:45	0.3/0.016	0/0.035	0					101.1
		15:15	0.3/0.012	0/0.025	0					87.4
		15:30	0.2/0.035	0/0.048	0					102.1
		15:40	0.3/0.28	0/0.051	0					87.7
		16:15	0.3/0.065	0/0.037	0					84.2
		16:30	0.3/0.028	0/0.023	0					102.3
		16:45	0.7/0.023	0/0.019	0					107.3
		17:00	0.3/0.017	0/0.047	0.0					107.4
		17:15	0.3/0.019	0.0/0.069	0.0					108.0
		17:30	0.3/0.018	0.0/0.028	0.0					110.5
		17:48	0.3/0.34	0.0/0.031	0.0					110.2
	TAKE CAMP DOWN AT 1610-1615.									
	STOP WORK AT 17:48.									

Amb

Air Quality Monitoring Record

SB-16

Client:_____ **Project No.:**_____
Location:_____ **Site Eng.:**_____
Project Mgr.:_____ **Site H&S Officer:**_____

Date	Initial	Time	Location U	PID/FID PPM D	O_2% A	LEL%	Dräeger Tubes			Noise Other dB
9/24/09	VM	10:50	0/0.037	0/0.030	0					83
		11:30	0/0.035	0/0.021	0					76
		11:52	0/0.037	0/0.029	0					87
		12:45	0/0.040	0/0.036	0					87
		13:15	0/0.043	0/0.054	0					92
		13:45	0/0.058	0/0.070	0					87
		14:10	0/0.029	0/0.085	0					87
		15:20	0/0.049	0/0.089	0					89
		16:00	0/0.039	0/0.037	0					89
		16:20	0/0.025	0/0.017	0					87

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.: 01765-076-300
Site Eng.: VIDL
Site H&S Officer:

Date	Initial	Time	Location U	PID/FID PPM D	O2% Area.	LEL%	Dräeger Tubes			Noise Other dB
9/24/08	VM	8:30	0/0.001	0/0.062	0					77.4
		9:00	0/0.00	0/0.059	0					70.1
		9:20	0/0.010	0/0.041	0					78.2
		10:30	0/0.001	0/0.035	0					85
NOTE TRANSFER	JK	10:00	0/0.002	0/0.032	0					75.3
	JK	10:17	0/0.029	0/0.026	0					80.6
		10:55	0/0.027	0/0.036	0					83
		12:00	0/0.017	0/0.043	0					87
		12:45	0/0.026	0/0.059	0					89.3
		13:15	0/0.002	0/0.043	0					91.8
		13:45	0/0.018	0/0.061	0					87.2
		14:10	0/0.003	0/0.045	0					81
		15:20	0/0.007	0/0.036	0					77
		16:00	0/0.002	0/0.016	0					102
		16:20	0/0.011	0/0.028	0					85

Air Quality Monitoring Record

SB-18/SB-12

Client: National Grid
Location:
Project Mgr.:
Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	Location U	PID/FID PPM D	O_2% A	LEL%	Dräeger Tubes			DB Other
9/25/09	VM	8:45	0.1/0.005	0.2/0.007						85.3
		9:15	0.1/0.007	0.1/0.015						90.1
		10:00	0.2/0.042	0.1/0.027						95.3
		10:30	0.1/0.010	0.1/0.019						92.7
		11:30	0.1/0.003	0.3/0.078						96.4
		14:53	0.3/0.029	0.3/0.046						70.2
		15:40	0.3/0.003	0.3/0.09						87.4
		16:00	0.3/0.099	0.3/0.068						78.8
		16:30	0.3/0.019	0/0.008						84.7

Air Quality Monitoring Record

SB-11

Client: National Grid
Location:
Project Mgr.:

Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	Location U	PID/FID PPM D	O2% Area	LEL%	Dräeger Tubes			dB Other
9/25/09	VM	8:45	0.9/0.026	0.5/0.010	0.6					77.8
		9:15	0.6/0.019	0.3/0.004	0.6					81.1
		10:00	0.6/0.014	0.8/0.042	0.7					87.4
		10:30	0.8/0.039	0.6/0.031	0.6					84.6
		11:35	0.6/0.014	0.5/0.038	0.8					82.3

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY FORMER MGP
Project Mgr.: Pete Cox.

Project No.: 01765-076
Site Eng.:
Site H&S Officer:

Date	Initial	Time	~~Location~~ UP PID	~~PID/FID PPM~~ UP DT	~~O₂%~~ DWN PID	~~LEL%~~ DWN DT	Dräeger Tubes: drilling work area	Dräeger Tubes: additional PID	Dräeger Tubes: ____	dB. ~~Other~~ Noise Meter
Set up 0840-0845										
9/30	JP	0920	0.0	0.001	0.0	0.059	2.1	0.0		NM
9/30	JP	0935	0.0	0.000	0.0	0.014	2.4	0.3		NM
9/30	JP	0955	0.0	0.008	0.0	0.008	2.0	0.0		NM
9/30	JP	1005	0.0	0.004	0.0	0.005	2.0	0.0		NM
9/30	JP	1020	0.0	0.012	0.0	0.023	2.3	0.0		74.6
9/30	JP	1035	0.0	0.000	0.0	0.021	2.6	0.2		79
9/30	JP	1050	0.0	0.000	0.0	0.040	4.0	0.2	more to pre-clear area SB/MW2	78.1
9/30	JP	1115	0.0	0.000	0.0	0.015		0.0		79.0
9/30	JP	1145	0.0	0.004	0.0	0.045	0.8	0.0		70.7
9/30	JP	1215	0.0	0.011	0.0	0.017	0.2	0.0		73.6
9/30	JP	1230	0.0	0.008	0.0	0.007	0.3	0.0		<70.4
9/30	JP	1330	0.0	0.000	0.0	0.015	0.7	0.0		<70.0
9/30		1345	0.0	0.000	0.0	0.044				93.4
		14:00	0.0	0.002	0.0	0.011		0.0		92.1
		14:30	0.0	0.000	0.0	0.027		0.0		83.2

wind direction

drilling work area PID not working properly. Have additional one next to it reading side-by-side.

Air Quality Monitoring Record

Client: National grid
Location: Equity SB-15A
Project Mgr.: Pete Cox

Project No.: 01765-026
Site Eng.: I
Site H&S Officer: Josh Millard

Date	Initial	Time	~~Location~~ UD PID	~~PID/FID PPM~~ UD DT	~~O_2%~~ dun PID	~~LEL%~~ dun DT	Dräeger Tubes			~~dB Other~~ Noise
							NA drilling			
9/30/09	(Data on previous page).									
			Bat Low/OFF.							
1645	JP	1645	0.0	0.000	0.0	0.012	0.0			76.7
1700	JP	1700	0.0	0.002	0.0	0.018	0.0			76.7
1715	JP.	1715	0.0	0.000	0.0	0.040	—			—
	Take down @ 1715.									

no more work. already complete

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY Former MGP
Project Mgr.: Pete Cox.
Drilling - SB-15, Pre-clear SB-2/MW-2.

Project No.: 01765-300
Site Eng.:
Site H&S Officer: Josh Millard

Date	Initial	Time	Location UP PID	PID/FID PPM UP DT	~~O_2%~~ DWN PID	~~LEL%~~ DWN DT	Dräeger Tubes Work AREA 1	Dräeger Tubes Work Area 2	Dräeger Tubes	dosimeter ~~Other~~ dB	
0800	Setup camp										
10/1	JP	0815	0.7	0.048	0.0	0.088	0.0	—		—	
10/1	JP	0830	1.0	0.070	0.0	0.068	0.0	—		—	
10/1	JP	0840	0.9	0.071	0.0	0.062	0.0	0.0		—	
10/1	JP	0900	0.6	0.067	0.0 ~~0.0~~	0.034 ~~0.062~~	0.0	0.0 ~~0.0~~		70.2	
10/1	JP	0918	1.1	0.085	0.0	0.025	0.0	0.4		77.8	
10/1	JP	0930	0.8	0.011	0.0	0.060	0.0	0.1		82.5	peak @ 99 when hammering
10/1	JM	0945	0.7	0.055	0.0	0.082	0.0	0.4		96.7	Peak @ 100.2
10/1	JM	1000	0.9	0.020	0.0	0.040	0.0	0.4		70.0	→ hand dig
10/1	JP	1020 ~~1015~~	0.8	0.054	0.0	0.031	0.0	0.6		70.1	
10/1	JP	1030	0.8	0.024	0.0	0.050	0.0	0.4		74.8	
10/1	JP	1045	0.8	0.036	NM	NM	0.0	0.4		NM	
10/1	JP	1100	1.0	0.198	0.0	0.096	0.0	—		90.7	drillers deconing hammering
10/1	JP	1115	0.9	0.022	0.0	0.099	0.0	—		92.2	
10/1	JP	1130	1.0	0.009	0.0	0.073	0.0	—		76.3	
		1145	NOT	MEASURED.							
10/1	JP	1200	0.8	0.031	0.0	.121	0.0	—		75.0	
10/1	JP	1330	1.0	0.032	0.0	0.053	0.0	—		70.6	
Setup on SB-12 drilling.											
10/1	JP	1445	1.1	not working properly	0.0 *	0.012	0.0	—		70.8	
10/1	JP	1500	1.1	0.064	0.0	0.022	0.0	—		76.3	
10/1	JP	1515	1.1	NOT working properly	0.0	0.017	—	—		70.8	
10/1	JP	1545	~~more to SB-18~~ grouting SB-12.								
10/1	JP	1615	1.1	0.000	0.0	0.025	—	—		—	
10/1	JP	1700	1.1	0.007	0.0	0.020	0.1	—		—	

work area 1 - preclear @ 1038 dB on sidewalk while hammering
Work area 2 - drilling 83.9 dB.
*1 TURNED ON PID TO LOG, WASN'T logging.

Air Quality Monitoring Record

Client: National Grid
Location: Equity
Project Mgr.: Pete Cox
SB-18 (day 2)

Project No.: 01765-076-300
Site Eng.: Shail Pandya
Site H&S Officer: Josh Millard.

Date	Initial	Time	~~Location~~ UP PID	PID/FID ~~PPM~~ ~~UP~~ DT	O_2% dwn PID	~~LEL%~~ DWN DT	Draeger Tubes: work Area	Draeger Tubes: ____	Draeger Tubes: ____	dB Other dosimeter
10/2/09	JP	0800	0.3	0.057		0.044	0.3	—	—	
	MS	0815	0.3	0.036	0.1	0.025	0.4			~~70.8~~
		0830	0.3	0.028	0.2	0.021	0.1			70.3
		0845	0.2	0.032	0.2	0.022	0.6			70.4
		0900	0.2	0.019	0.2	0.027	0.1			76.4
		0915	0.2	0.021	0.2	0.024	0.3			75.3
		0930	0.2	0.034	0.2	0.028	0.3			76.6
		0945	0.2	0.029	0.1	0.025	0.1			70.1
		1000	0.2	0.033	0.1	0.023	0.1			76.8
		1015	0.1	0.015	0.0	0.026	0.1			70.0
		1030	0.1	0.017	0.0	0.019	0.1			70.3
		1045	0.2	0.024	0.0	0.015	0.0			78.4
		1100	0.2	0.016	0.1	0.016	0.0			78.6
		1115	0.0	0.013	0.0	0.019	0.1			71.4
		1130	0.0	0.011	0.0	0.009	Background			

End of the day

Air Quality Monitoring Record

Client: NATIONAL GRID
Location: EQUITY
Project Mgr.: Pete Cox

Project No.: 01765-076-300
Site Eng.: VIPUL
Site H&S Officer:

Date	Initial	Time	~~Location~~ D	~~PID/FID~~ ~~PPM~~ U	~~O_2%~~ Area	LEL%	Dräeger Tubes			NOISE ~~Other~~ dB
		15:45	0.2/0.018	0/0.026	0					92.2
		16:45	0.2/0.019	0/0.015	0					81.7
		17:00	0.1/0.014	0/0.021	0					83.4

Air Quality Monitoring Record

Client: National grid.
Location: EQUITY (SB-18 start).
Project Mgr.: Pete Cox
Project No.: 01765-076-300
Site Eng.:
Site H&S Officer: Josh Millard

Date	Initial	Time	ppm Location UP PID.	PID/FID PPM up dustrak	ppm O_2% down PID	LEL% down dustrak	Dräeger Tubes: work area PID			dB Other dosimeter	
	1115-1117	Setup	CAMP	SB-18							
10/5/09	~~1120~~	JEP	1120	0.3	0.071	0.0	0.019	0.0			75.4	setup or location
	10/5	JEP	1135	0.2	0.031	0.0	0.044	0.0			<70.0	
			1150	0.01	0.011	0.1	0.017	0.0			83.2	
			1210	0.02	0.017	0.2	0.028	0.0			<70	
			1225	0.2	0.012	0.0	0.015	0.2			84.2	
			1300	0.0	0.015	0.0	0.031	0.0			77.4	
			1315	0.2	0.017	0.0	0.039	0.0			80.1	
			1340	0.03	0.019	0.0	0.014	0.0			82.4	
			15:30	0.4	0.035	0.0	0.040	0.5				
			15:45	0.3	0.035	0.0	0.015	0.4				
			16:00	0.2	0.011	0.0	0.007	0.4				
			16:15	0.3	0.028	0.0	0.016	0.0				
SB-11			16:30	0.2	0.041	0.0	0.008	0.2				
			16:45	0.2	0.037	0.0	0.011	—				
			17:00	0.2	0.009	0.0	0.010	—				
			17:30	0.4	0.017	0.0	0.010	0.6				

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	Location UPWIND PID	UPWIND PID/FID PPM DT	DOWN WIND O2% PID	DOWNWIND LEL% DT	Dräeger Tubes WA DRILL	Dräeger Tubes WA TP	dB ETP	dB Other Noise drill
10/6/09	VAV	8:15	EQUITY				02285	05469		
			0.3	0.011	0.3	0.016		0.4		Not operating.
		8:30	0.3	0.015	0.3	0.019		0.5		4
		8:45	0.4	0.039	0.3	0.022	0.6	0.6		77.5
		9:00	0.4	0.017	0.3	0.012	0.6	0.5		<70
		9:15	0.3	0.019	0.6	0.019	0.7	0.7	<70	<70
		9:45	0.8	0.034	0.2	0.024	0.8	0.8	71.3	92.1
		10:00	0.7	0.021	0.3	0.031	0.9	0.5	71.6	92.1
		10:30	0.8	0.016	0.4	0.023	0.9	0.7	74.8	92.1
		10:45	0.7	0.008	0.3	0.026	0.9	0.9	<70	92.1
		11:00	0.6	0.025	0.3	0.029	0.8	0.9	75.3	92.1
		11:15	0.6	0.045	0.3	0.023	0.9	0.7	<70	92.1
		11:30	0.8	0.013	0.3	0.014	0.7	0.8	82.5	92.1
		11:45	0.5	0.010	0.3	0.048	0.9	0.6	75.8	85.4
		12:00	0.8	0.045	0.0	0.051	1.0	0.8	75.7	89.4
		13:00	0.8	0.021	0.3	0.032	0.8	0.6	<70	<70
		13:15	1.3	0.032	1.1	0.020	0.3	1.3	<70	87.3
		13:30	0.3	0.034	0.8	0.028	0.7	0.9	<70	87.3
		13:45	0.4	0.057	0.6	0.037	0.8	1.2	<70	85.4
		14:00	0.7	0.022	0.3	0.021	1.6	0.8	<70	84.1
		14:15	1.7	0.017	0.3	0.036	0.7	0.6	<70	85.8
		14:45	0.7	0.051	0.6	0.052	0.5	0.9	<70	89.2
		15:00	0.6	0.018	0.6	0.072	0.9	0.7	80.5	87.6
		15:30	0.5	0.042	0.7	0.056	0.3	0.6	76.2	85.4
		16:00	0.5	0.013	0.5	0.014	0.9	0.8	73.2	84.5

Air Quality Monitoring Record

Client: National Grid
Location: Equity
Project Mgr.: Pete Cox

Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	UPWIND Location PID	UPWIND PID/FID PPM Dustrak	DOWN WIND O2% PID	DOWNWIND LEL% Dustrak	Dräeger Tubes WA DRLL	WA TP	dB DRLL	dB Other TP
10/7/09	VM	9:30	0.0	0.046	0.0	0.075	0.0	0.0	70.4	<70
		10:00	0.0	0.076	0.0	0.022	0.0	0.0	93.8	<70
		10:15	0.0	0.022	0.0	0.020	0.0	0.0	85.3	77.2
		10:30	0.0	0.016	0.0	0.061	0.0	0.0	84.4	71.9
		10:55	0.0	0.068	0.0	0.029	0.0	0.0	78.3	74.3
		11:15	0.1	0.057	0.0	0.045	0.0	0.0	<70	74.2
		11:30	0.0	0.053	0.0	0.025	0.0	0.0	<70	72.1
		11:45	0.0	0.072	0.0	0.034	0.0	0.0	<70	<70
		12:00	0.0	0.012	0.0	0.025	0.0	0.0	<70	<70
		12:45	0.0	0.013	0.0	0.011	0.0	0.0	87.3	<70
		13:00	0.0	0.028	0.0	0.018	0.0	0.0	<70	<70
		13:30	0.2	0.038	0.0	0.048	0.0	0.0	77.7	77.7
		13:50	0.2	0.025	0.0	0.057	0.0	0.0	70.6	70.6
		14:05	0.1	0.058	0	0.037	0.4	0.0	74.2	82.5
		14:35	0.1	0.030	0	0.028	0.1	0	83.3	<70
		14:50	0.0	0.038	0.2	0.031	0.1	0.0	78.4	<70
		15:10	0.1	0.083	0.1	0.012	0.0	0.0	83.6	<70
		15:25	0.1	0.025	0.2	0.032	0.1	0.0	83.4	74.6
		15:45	0.1	0.107	0.1	0.064	0.2	0.0	<70	76.8
		16:00	0.0	0.081	0.0	0.033	0.5	0.0	83.6	74.4
		16:30	0.0	0.022	0.1	0.016	0.4	—	91.1	—
		16:45	0.1	0.032	0.1	0.038	0.5	—	<70	—
		17:00	0.2	0.015	0.1	0.042	0.3	—	<70	—
		17:30	0.1	0.035	0.1	0.039	0.3	—	90.1	—

Air Quality Monitoring Record

Client: National Grid
Location: Equity TP-1 excavation
Project Mgr.: Peter Cox
Project No.:
Site Eng.: M. Stepanova (oversight)
Site H&S Officer: Jen Pfeiffer

Date	Initial	Time	Location UWDT	PID/FID PPM UW PID	O_2% DW DT	LEL% DW PID	Dräeger Tubes: Sound noise	Dräeger Tubes:	Dräeger Tubes:	Other
10/7/09	MS	16:45	0.185	0.0	0.001	0.0	76.5			water mist from the processing facility 10' away + wind kicks up dust
↓	MS	17:00	0.181	0.0	0.001	0.0	73.4			
↓	MS	17:15	died	0.0	0.001	0.0	74.5			
10/8/09	MS	0800	0.001	0.5	–	0.3	72.3			
10/8/09	MS	08:15	0.003	0.6	–	0.4	70.0			
10/8/09	MS	08:30	0.001	0.7	–	0.4	72.0			
10/8/09	MS	08:45	0.002	0.6	–	0.4	73.5			
10/8/09	MS	09:00	0.003	0.8	–	0.5	70.0			
10/8/09	MS	09:15	0.002	0.7	–	0.4	71.2			
10/8/09	MS	09:30	0.001	0.7	–	0.4	72.3			
10/8/09	MS	09:45	0.000	0.8	–	0.5	71.1			
10/8/09	MS	10:00	0.001	0.9	–	0.4	72.3			
10/8/09	MS	10:15	0.002	0.8	–	0.4	72.6			
10/8/09	MS	10:30	0.002	0.6	–	0.4	73.3			
10/8/09	MS	10:45	0.001	0.7	–	0.5	72.9			
10/8/09	MS	11:00	0.000	0.6	–	0.4	70.6			
10/8/09	MS	11:15	0.001	0.6	–	0.4	73.5			
10/8/09	MS	11:30	0.002	0.7	–	0.5	–	Noise meter => low batter		
10/8/09	MS	12:15	0.001	0.8	–	0.4	–			
10/8/09	MS	12:30	0.000	0.6	–	0.5	–			
10/8/09	MS	13:00	0.001	0.5	–	0.6	–			
10/8/09	MS	13:30	0.002	0.6	–	0.5	–			
10/8/09		14:00	0.003	0.7	–	0.5	–			
		14:30	0.002	0.8		0.6				

UWDT does not have digits properly displayed ~~In the movi~~

Filled back the excavation @ 14:30

DRILLING

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	UPWIND Location PID	UPWIND PID/FID PPM Dustrak	DWN O_2% PID	DWN LEL% DT	Dräeger Tubes WA PID			dB Other Noise
10/8/09	VM	8:30	0.3	0.012	0.2	0.035	0			98.1
		9:00	0.4	0.011	0.3	0.007	0			84.2
		10:00	0.3	0.012	0.3	0.027	0.1			72.8
		10:15	0.3	0.17	0.3	0.017	0.1			93.6
		10:30	0.4	0.008	0.3	0.012	0			<70
		10:45	0.4	0.018	0.4	0.021	0			<70
		11:15	0.4	0.028	0.3	0.023	0			<70
		11:45	0.3	0.018	0.3	0.013	0			<70
		12:00	0.1	0.023	0.3	0.048	0			<70
		13:00	0.3	0.006	0.2	0.021	0			93.4
		13:15	0.4	0.004	0.3	0026	0			94.6
		13:30	0.4	0.014	0.3	0.013	0			87.7
		13:45	0.5	0.032	0.3	0.025	0			<70
		14:15	0.3	0.009	0.3	0.005	0			84.2
		14:30	0.1	0.026	0.3	0.021	0			<70
		15:00	0.5	0.015	0.3	0.011	0			<70
		15:15	0.4	0.044	0.4	0.054	0			<70
		15:45	0.3	0.010	0.2	0.013	0			93.1
		16:00	0.3	0.013	0.2	0.017	0			<70
		16:15	0.4	0.024	0.3	0.015	0			<70
		16:30	0.2	0.039	0.4	0.041	0			83.8
		16:50	0.4	0.016	0.4	0.018	0			86.6

Field Equipment Calibration/Maintenance Log

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.:
Site Eng.:
Site EHS Officer:

Date	Type of Equipment[1]	Equipment ID Number	Procedure[2]	Reference Standards[3]	Initials of Individual	Company	Calibration OK Yes/No
10/8/09	PID	01321 DWN	SPAN	ISO	VM	AECOM	YES.
	PID	01919 UP	SPAN	ISO	↓	↓	↓
	PID	11455 WIND TP UP	SPAN	ISO			
	Dustrak	12309 UP	AIR	AIR			
	Dustrak	11302 DWN	AIR	AIR			
~~10/9/09~~							
10/9/09	PID	01919 UP	SPAN	ISO	VM	AECOM	YES.
	DT	12309 DWN UP	ZERO	AIR	↓	↓	↓
	PID	05469	SPAN	ISO			
	DT	11302	ZERO	AIR			
	PID	01321	SPAN	ISO			

Maintenance Required/Procedures:

[1] Certifications or statements of manufacturer calibration can be obtained from RETEC office files.

[2] Use space below if necessary

[3] Type of calibration gas used and concentration; buffer solutions, etc.

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY
Project Mgr.: Pete Cox

Project No.:
Site Eng.:
Site H&S Officer:

Date	Initial	Time	UPWIND Location PID	UPWIND PID/~~PID~~ PPM DT	DOWN WIND ~~O2%~~ PID	DOWN WIND ~~LEL%~~ DT	Dräeger Tubes WA TD			dB Other Noise
10/9/09	VM	8:15	0.6	0.024	0.1	0.016	0.4			<70
		8:45	0.6	0.013	0.2	0.018	0.6			70.0
		9:15	0.6	0.013	0.2	0.012	0.7			91.7
		9:30	0.6	0.014	0.2	0.013	0.8			90.7
		9:45	0.6	0.015	0.3	0.016	0.8			89.1
		10:00	0.6	0.021	0.3	0.017	0.7			<70
		10:40	0.8	0.020	0.4	0.020	0.9			<70
		11:00	0.7	0.022	0.4	0.016	0.7			78.4
		11:35	0.8	0.019	0.5	0.020	1.0			81.1
		12:10	0.6	0.020	0.6	0.016	0.9			84.6
		13:00	0.7	0.023	0.3	0.041	0.7			<70
		13:15	0.8	0.009	0.7	0.018	0.6			<70
		13:40	0.6	0.062	0.7	0.072	0.8			92.5
		14:00	0.4	0.064	0.6	0.046	0.7			90.1
		14:15	0.6	0.022	0.3	0.019	0.3			86.4
		14:30	0.4	0.020	0.5	0.054	0.5			88.7
		15:15	0.3	0.026	0.7	0.023				

Air Quality Monitoring Record

Client: National Grid
Location: Equity
Project Mgr.: Pete Cox
Project No.:
Site Eng.: Josh
Site H&S Officer: Jen Pfeiffer

Date	Initial	Time	Location DT DW	PID/FID PPM	~~O_2%~~ DT UW	~~LEL%~~ PID UW	Dräeger Tubes: noise	Dräeger Tubes: PID Work area	Dräeger Tubes: ____	Other
10/12/09	MS	10:50	0.238	0.2	0.039	0.9	80.1	0.0		
10/12/09	MS	11:05	0.066	0.0	0.027	1.3	74.4	0.2		
10/12/09	MS	11:20	0.020	0.0	0.015	1.4	80.2	0.1		
10/12/09	MS	11:30	0.555	0.0	0.131	1.6	86.6	0.0		
10/12/09	MS	11:45	0.005	0.0	0.031	1.6	79.6	0.0		
10/12/09	MS	12:00	0.046	0.0	0.076	1.7	80.2	0.0		
10/12/09	MS	12:15	0.089	0.0	0.120	1.8	80.6	0.1		
10/12/09	MS	12:30	0.014	0.0	0.008	1.9	83.2	0.0		
10/12/09	MS	12:45	0.013	0.0	0.026	1.6	78.3	0.0		
10/12/09	MS	13:00	0.038	0.0	0.021	1.9	80.6	0.1		no fieldwork between 13:00 and 15:00
10/12/09	MS	15:00	0.188	0.0	0.010	2.0	87.9			
10/12/09	MS	15:15	0.140	low bat	0.092	2.1	81.9			
10/12/09	MS	15:30	0.058	|	0.046	low bat	79.0	low bat		
10/12/09	MS	15:45	0.036	|	0.093	|	79.3	low bat		
10/12/09	MS	16:00	0.064	|	0.120	|	72.5	|		
10/12/09	MS	16:15	0.023	|		|	76.3	|		
10/12/09	MS	16:30	0.019	|		|	78.1	|		
10/12/09	MS	16:45	0.167	|	0.152	|	72.5	|		
10/12/09	MS	17:00	0.069	|	0.030	|	71.5	|		

UW PID has higher readings probably due to exhaust of the generator

Air Quality Monitoring Record

Client: National Grid
Location: Equis near SB-2
Project Mgr.: Pete Cox
Project No.:
Site Eng.: John
Site H&S Officer: Jen Pfeiffer

Date	Initial	Time	~~Location~~ UWDT	PID/FID PPM UW PID	O_2% DWDT	LEL% dw PID	Dräeger Tubes: work area	Dräeger Tubes: noise	Dräeger Tubes: comments	Other
10/13/09	MS	8:30	0.243	10.6	0.143	1.0	0.6	78.9	No field activities by us	saw-cutting concrete
10/13/09	MS	8:45	0.340	8.6	changed batteries	2.5	2.1		saw-cutting	
10/13/09	MS	9:00	1.003	7.8	0.267	1.8	6.3	87.0		
10/13/09	MS	9:15	1.223	6.2	0.303	1.1	11.0	88.0		9:15 break
10/13/09	MS	10:00	0.063	1.7	0.030	0.5	0.2	77.7	wind changed direction	>10:00 wind change direction
10/13/09	MS	10:15	0.140	1.7	0.071	0.8	0.3	80.1		
10/13/09	MS	10:30	0.215	1.8	0.044	0.8	0.3	77.3		
10/13/09	MS	10:45	0.162	1.8	0.026	0.6	0.3	93.4		
10/13/09	MS	11:00	0.203	1.6	0.043	0.5	0.2	78.7		
10/13/09	MS	11:15	0.063	1.4	0.052	0.5	0.1	76.1		
10/13/09	MS	11:30	0.054	1.2	0.042	0.5	0.1	70.0		
10/13/09	MS	11:45	0.130	1.2	0.093	0.5	0.0	72.3		
10/13/09	MS	12:00	0.064	1.0	0.037	0.5	0.0	75.1		
10/13/09	MS	12:30	0.155	0.9	0.065	0.5	0.0	77.1		>lunch break
10/13/09	MS	13:00	0.048	0.8	0.056	0.4	0.0	79.3		
10/13/09	MS	13:30	0.063	0.8	0.034	0.4	0.0	74.6		
10/13/09	MS	13:45	0.365	0.8	0.042	0.4	0.0	75.3	strong wind	kicks up dust
10/13/09	MS	14:00	1.14	0.8	0.036	0.4	0.0	80.3		
10/13/09	MS	14:15	0.046	0.8	0.029	0.4	0.0	70.1		
10/13/09	MS	14:30	0.073	0.6	0.056	0.5	0.0	72.3		
10/13/09	MS	14:45	0.032	0.5	0.075	0.3	0.0	70.1		
10/13/09	MS	15:00	0.069	0.9	0.024	0.3	0.0	72.5		
10/13/09	MS	15:15	0.981	~~0.1~~ 0.7	0.036	0.4	0.0	73.4		
10/13/09	MS	15:30	0.034	0.4	0.037	0.4	0.0	72.7		
10/13/09	MS	15:45	0.046	~~0.1~~ 0.7	0.042	0.4	0.0	~~70.8~~		

Very humid weather + water vapor from processing facility affect readings

Air Quality Monitoring Record

Client: National Grid
Location: Equity, SB-6
Project Mgr.: Pete Cox
Project No.:
Site Eng.: Josh
Site H&S Officer: Jen Pfeiffer

Date	Initial	Time	~~Location~~ DT UW	~~PID/FID PPM~~ PID UW	~~O_2%~~ DT DW	~~LEL%~~ PID DW	Dräeger Tubes: Noise	Dräeger Tubes	Dräeger Tubes	Other
10/14/09	MS	10:45	0.079	0.2	0.023	0.2	81.6			Before activities
saw-cutting 10/14/09	MS	11:00	0.081	0.0	0.582	7.2	94.4			saw-cutting DW station is 6.5' away from activ.
10/14/09	MS	11:15	0.892	0.1	0.326	7.9	95.3			
10/14/09	MS	11:30	0.017	0.0	0.023	0.5	81.2			
10/14/09	MS	11:45	0.038	0.0	0.040	0.4	82.3			
end clearing 10/14/09	MS	12:00	0.040	0.0	0.022	0.5	81.8			
10/14/09	MS	12:45	0.053	0.0	0.018	0.1	78.8			
10/14/09	MS	13:00	0.015	0.0	0.020	0.3	74.9			
10/14/09	MS	13:15	0.041	0.0	0.014	0.2	71.8			
10/14/09	MS	13:30	0.035	0.0	0.017	0.2	74.5			
10/14/09	MS	13:45	0.017	0.0	0.008	0.2	77.3			
10/14/09	MS	14:00	0.024	0.0	0.042	0.2	73.9			
10/14/09	MS	14:15	0.023	0.0	0.024	0.2	81.0			
10/14/09	MS	14:30	0.036	0.0	0.036	0.2	72.3			
10/14/09	MS	14:45	0.027	0.0	0.012	0.2	73.2			
10/14/09	MS	15:00	0.014	0.0	0.009	0.2	76.9			
10/14/09	MS	15:15	0.046	0.0	0.017	0.3	79.8			
ac tilling 10/14/09	MS	15:30	0.293	0.1	0.020	0.3	76.0			
	end	of	activities							

Air Quality Monitoring Record

Client: National Grid
Location: Equity
Project Mgr.: Pete Cox

Project No.:
Site Eng.: Josh Millard
Site H&S Officer: Jon Pfeiffer

Date	Initial	Time	~~Location~~ DT UW	~~PID/FID PPM~~ PID UW	~~O_2%~~ DT DW	~~LEL%~~ PID DW	Dräeger Tubes: noise	Dräeger Tubes	Dräeger Tubes	Other
10/15/09	MS	9:30	0.110	0.4	0.061	0.3	81.5			Before the Beginning of fieldwork
10/15/09	MS	9:45	0.131	0.6						
10/15/09	MS	10:00	1.12	0.9	1.3	0.0	82.7			
10/15/09	MS	10:15	0.020	0.8	0.024	0.2	82.7	Rain		
10/15/09	MS	10:30	0.086	0.9	0.348	0.2		No dust-producing activities. Readings may be affected by humidity		

Client: National Grid
Location: SB-8
Date: 10-16-09
Field Personnel: JMillard, JPotter

Project: EQUITY
Project Number: 04940-187
Weather: Rain Temp ~45°F
Ambient Noise: 70.3

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0844	setup downwind CAMP, 0853 set up upwind camp.						
0917	begin augering.						
0918	3.6	0.011	0.0	0.1	0.019	84.8	
0930	5.9	0.010	—	0.3	0.018	78.9	get another PID for work area.
0945	0.3	0.008	0.0	0.3	0.018	71.9	SA↓
1000	0.7	0.010	0.1	0.4	0.010	76.7	advance borehole SB-8.
1015	0.7	0.009	0.4	0.5	0.011	77.1	SAA.
1030	0.9	0.050	0.5-0.6	0.6-0.5-0.6	0.008	79.1	SAA.
1045	1.0	0.011	0.5	0.7	0.009	84.4.	SAA.
1100	1.1	0.008	0.5	0.7	0.009.	76.4.	SAA.
1103.	1.2	0.011.	0.5-0.6	0.7	0.009.	77.5	SAA.
1118	1.3	0.009	1.4	0.9	0.009	80.6	SAA.
1130	1.5	0.009	1.0	1.2	0.012	77.3	SAA
1145	1.5	0.008	1.0	1.1	0.009	72.3	SAA
1218	2.0	0.008	0.8	1.3	0.020	81.0	grout borehole.

Air Quality Monitoring Record

Client: National Grid
Location: EQUITY SV-1 (Locker Room)
Project Mgr.: Pete Cox.
Project No.: 04940-181
Site Eng.:
Site H&S Officer: J. Millard.

10/16/09

Date	Initial	Time	~~Location~~ up PID	~~PID/FID PPM~~ up DT	~~O_2%~~ dwn PID	~~LEL%~~ dwn DT.	Dräeger Tubes WA / PID			Other
0845	set up CAMP									
0830										
Reading for SV-1 point installation. not working properly. no visible dust.										
10/16/09 ~~0900~~	JP	0900	0.0	0.640	1.1	0.657				
note: upwind area couple feet away from work area.										
10/16/09	JP	0915	0.0	0.171	0.1	0.171	0.0			
10/16/09	JP	0930	0.0	0.047	0.0	0.034	0.0			
10/16/09	JP	0955	0.0	0.061	0.1	0.043	0.0			
10/16/09	JP	1000	0.0	0.048	0.2	0.060	0.0			
10/16/09	JP	1015	0.0	0.156	0.3	0.253	0.0			
10/16/09	JP	1025	0.0	0.093	0.2	0.092	0.0	demob IA-1/SV-1, mob to IA-2/SV-2		
1030	set up at ~~SV~~ jp IA2/SV2.									
1106	begn coring									
10/16/09 ~~1107~~	JP	1107	0.0 jp	0.201	0.1	0.056	0.0			
10/16/09	JP	1117	0.0	0.028*	0.2	0.004	0.0			
10/16/09	JP	1130	0.4	0.007 jp	0.0	0.042	0.0	~~random switch reading~~ jp		
10/16/09	JP	1145	0.0	0.050	0.4	0.008 jp	0.0			
10/16/09	JP	1210	0.0	0.283	0.2	0.003	0.0	SV2/IA2 set.		
10/16/09	JP	1222	0.0	0.241			0.0	manhole set.		
1225	take down CAMP.									

*realized not data start data 10S

Note: At SV-1/IA-1 location see field note book for additional notes. jp.

Client: NATIONAL GRID.
Location: SB-14B
Date: 10-17-09
Field Personnel: JPFEIFFER, JOSH MILLARD.

Project: EQUITY FORMER MGP
Project Number: 04940-181
Weather: Temp ~45°, overcast wind ~5mph
Ambient Noise: see pg. 1

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1415	1.2	0.064	0.8	1.4	0.015	86.4	SAA.
1430	1.1	0.009	0.5	1.4	0.007	82.8	SAA.
1445	1.1	0.025	0.5	1.3	0.007	70.4	SAA.
1500	1.2	0.007	0.9	1.5	0.008	82.4	SAA.
1515	1.1	0.010	0.7	1.5	0.011	84.1	SAA.
1530	1.1	0.012	0.9	1.3	0.019	73.5	SAA. downwind DT, off-turn back on.
1545	1.3	0.004	0.7	1.3	0.007	84.4	SB-14B ~~grout begin~~ done advancing
1600	1.1	0.014	1.0	1.5	0.079	80.1	get materials.
1618	1.1	0.007	1.1	1.5	0.018	88.1	grout borehole.
1630	1.2	0.009	0.6	OFF, battery *3	0.004	86.4	grout.
1645	1.2	0.004	0.7	" , 0.6	0.054	86.4	SAA
1704	1.3	0.008	0.7	" , 0.6	0.029	74.3	SAA
1715	1.1	0.004	0.6	" , 0.6	0.016	74.2	SAA
1730	1.3	0.005	0.6	" , 0.6	0.016	74.3	SAA.

*3 use work area PID to obtain real-time downwind reading.

Client: National Grid
Location: Equity
Date: 10-19-09
Field Personnel: JPfeiffer, JMillard

Project: EQUITY Former MGP
Project Number: 04940-151
Weather: Temp. 44°F, mostly cloudy, wind ~10 mph
Ambient Noise: 70.3 dB.

Community Air Monitoring Plan / Noise Field Log

#222 Parcel.

→ Wind NE to SW

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0820-0825	SET UP CAMP AT LOCATION SB-14B RIG MOBILIZED TO AREA.						
0830	0.3	0.018	0.0	0.3	0.019	83.0	background air readings, no work*
0845	0.4	0.016	0.0	6.5	0.038	85.7	no advancement of borehole.
0900	0.5	0.003	0.0	0.9	0.041	84.1	SB14 augering borehole.
0915	0.8	150 *1	0.0	0.8	0.067	84.9	SB14B continuous split spoons.
0930	0.7	0.010	0.1	0.7	0.006	87.0	SAA.
0945	0.8	0.011	0.4	1.1	0.037	87.0	SAA plus 10 min age, sheetrock dumpers near by
1000	0.9	0.011	0.5	1.1	0.028	80.9	SAA, before.
1015	1.0	0.009	0.3	1.0	0.029	80.6.	SAA, light sprinkle of rain
1037	1.1	0.010	0.5	1.1	0.012	88.8	SAA.
1115	1.1	0.012	0.3	1.1	0.008	81.2	SAA
1130	1.1	0.008	0.8	1.2	0.007	83.7	SAA.
1145	1.0	0.011	0.8	1.3	0.014	86.7	SAA.
1200	1.2	0.006.	0.5	1.4	0.020	83.2	SAA.
1215	1.2	0.004	0.7	1.6	0.014	87.2	SAA.
1230	1.1	0.070	0.9	1.6.	0.022	86.2	SAA. *2
1245	1.1	0.017	0.8	1.5	0.021	85.4	SAA.
1300	1.1	0.020	1.0	1.7	0.030	93.8.	SAA.
1315	1.1	0.017	1.0	1.4	0.018	87.3	SAA.
1330	1.1	0.010	0.7	1.6	0.014	84.2	SAA.
1350	1.2	0.019	1.0	1.6	0.047	85.4.	SAA.
1400	1.2	0.009	1.0	1.5	0.046	83.8	SAA.

*1 0915-0923 upwind dust trak reading steady @ 150 mg/m³. Turn off. Turn back on. #6 service on display screen. Replace filters. Unit reading same. Unit flashes ~~between~~ from 0 and 150 mg/m³.
0927 replace upwind unit # 11303 with 11302, calibration documented.
SAA = Same as above.

*2 Collected colimetric tube (Benzene) no indication of Benzene, no color. Take picture of tube.

Client: National Grid.
Location: ~~SB~~ SB-1 (A,B,C)
Date: 10/19/09
Field Personnel: JPfeffer

Project: EQUITY
Project Number: 04940-187
Weather: Temps ~50° F, Sunny, Clear
Ambient Noise: 70.0 dB

Community Air Monitoring Plan / Noise Field Log

Wind ~5-10 mph NW

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1115	Setup CAMP SB-1 (A,B,C).						
1125	0.0	NO METER.	0.0	0.0	0.020	70.0	BACKGROUND READINGS.
1132 ~~1130~~	0.0	"	0.0	0.0	0.017	below 70.0	" Traffic = 82.3
1142	0.0	"	0-0.2	0.0	0.026	76.5	"
1200	0.0	"	0.0	0.0	0.027	71.9	Sawcut work stopped momentarily.
1215	0.0		0.0	0.0	0.060	79.0	saw cut.
1230 - 1315 NO WORK.							
1315	0.2	"	0.0	0.0	0.025	103.8	saw cut.
1330	0.2.	"	0.0	0.0	0.026	93.4.	remove concrete.
1345	NOT MEASURED.						advance auger (hand)
1400	0.2	"	0.0	0.0	0.016	Not measured.	"
1415	0.2	"	0.0	0.0	0.019	78.7	
1430	0.2.		0.0	0.0	0.012	70.3	"
1445	Not measured						
1500	Not measured.						
1515	0.2	"	0.0	0.0	0.014	Not measured	concrete patch.

Client: National Grid
Location: Equity, Brooklyn, NY
Date: 10/20/09
Field Personnel: MS

Project: Equity former MGP
Project Number:
Weather: sunny, ~55°F
Ambient Noise:

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
9:00	0.0	0.086	0.0	0.2	0.068		Before any activities
9:15	0.0	0.127	0.0	0.4	0.077	78.0	Saw-cutting
9:30	0.0	0.064	0.0	0.4	0.048	79.3	Hand-clearing
9:45	0.0	0.071	0.0	0.4	0.042	83.1	"Lamp" message on UW PID but it reads properly
10:00	0.2	0.048	0.0	0.4	0.038	74.5	
10:15	0.4	0.052	0.0	0.4	0.059	78.9	
10:30	0.0	0.064	0.2	0.6	0.040	72.3	
10:45	0.1	0.046	0.2	0.0	0.062	74.6	
11:00	0.7	0.050	0.2	0.0	0.068	81.8	UW PID reads high but there are no sources (obvious) of VOCs nearby
11:14	0.2	0.074	0.2	0.0	0.059	83.2	
11:30	0.2	0.050	0.2	0.0	0.045	73.2	
12:45	0.2	0.060	0.2	0.0	0.040	82.8	
13:00	**0.2**	**0.026**	0.2	**0.0**	**0.073**	**84.2**	
13:15	0.2	0.041	0.3	0.0	0.080	81.3	
13:30	0.3	0.053	0.2	0.0	0.031	79.4	
13:45	0.2	0.046	0.2	0.0	0.036	76.3	
14:00	0.3	0.028	0.2	0.0	0.020	78.3	Saw-cut the last SB-1 loc
14:15	0.3	0.047	0.2	0.0	0.031	76.5	End of activities for today

< Lunch Break

Client: National Grid
Location: SB1 + SB6
Date: 10-21-09
Field Personnel: JPfeiffer
J. Millard

Project: EQUITY
Project Number: 04940-151
Weather: Temp ~70°F, clear, calm.
Ambient Noise: 86 dB.

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0915	set up	SB1, SB6 RAMP				~~73.2~~	
0940	0.1	0.068	0.0	0.0	0.066	73.2	pre clear SB1, not yet geoprobing SB6
0950	0.0	0.074	0.0	NM	NM	NM	"
1000	0.3	0.120	0.0	0.0	0.142	87.0	"
1110	0.4	0.068	0.0	0.0	0.086	81.5	"
1245	0.5	0.350	0.0	0.0	0.072	80.4	geoprobe only
~~1300~~	0.4	0.213	0.0	0.0	0.094	83.2	"
1320 ~~1315~~	0.7	0.272	0.0	0.0	0.026	83.4	"
1330	0.4	0.163	0.0	0.0	0.086	86.4	

Client: Natural Grid (SB7B)
Location: Alternate SB-7 and SB17
Date: 10-22-09
Field Personnel: JStaffieri, JMillard.

Project: EQUITY FORMER MGP
Project Number: 04940-181
Weather: Temp
Ambient Noise: 70.3

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID SB7 / SB17	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0815	See J.Millard Field Log		0.2 / 0.0	0.0 ~~66~~ ppm	0.066	76.5	previous SB7,
0910	Setup on sidewalk 2nd unit.				0910-0917.		
0938	0.2	0.013	0.0	0.0	0.059	78.6	SB-6A install well.
0945	0.2	0.013	0.1	0.0	0.088 ppm	84.9	
1000	0.2	0.146	0.1	0.0	0.040 ppm	89.6	
1015	0.2	0.090		0.0	0.086	79.0	
1030	Take camp down						
1107	Set camp up						
1117	0.2	0.139	0.0	0.0	0.070	103.8	SB-1A install well.
1130	0.2	0.134	0.0	0.0	0.055	81.3	
1145	0.2	0.089	0.0	0.0	0.143	91.3	
1200	0.1	0.071	0.0	0.0	0.069	83.5	
1208	Take sidewalk camp down.						

Client: National Grid
Location: Maspeth Ave Brooklyn. NY
Date: 10/26/09
Field Personnel: Jenny DeBoer & Kevin Kaehel

Project: Equity Former MGP
Project Number: 01765-076
Weather: clear, sunny, 50s
Ambient Noise: 70 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID (ppm)	Upwind Dust Trak (mg/m³)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust Trak (mg/m³)	dB Readings	Comments
			Turned on air monitoring equip @ 1055 for background readings				
1100	0.0	0.008	~~0.0~~ 0.0	0.0	0.034	70	Background
1115	0.0	0.017	0.0	0.0	0.013	<70	Background
1130	0.0	0.067	0.0	0.0	0.008	<70	Background
1145	0.0	0.009	0.0	0.0	0.015	72.2	Setting up rig @ MW-7B to install MW-7B
1200	0.0	0.006	0.0	0.0	0.010	70.1	Installing MW-7B
1215	0.0	0.006	0.0	0.0	0.010	<70	
1230	0.0	0.015	0.0	0.0	0.017	74.1	
1245	0.0	0.008	0.0	0.0	0.014	70.1	
1300	0.0	0.010	0.0	0.0	0.011	<70	
1315	0.0	0.012	0.0	0.0	0.013	<70	
1330	0.0	0.018	0.0	0.0	0.016	<70	
1345	0.0	0.010	0.0	0.0	0.014	<70	
1400	0.0	0.012	0.0	0.0	0.016	<70	
1415	0.0	0.016	0.0	0.0	0.018	70.5	
1430	0.0	0.013	0.0	0.0	0.019	71.5	
			Installation of MW-7B complete @ 1445				
			Turned off CAMP equip @ 1450				

Client: National Grid
Location: Maspeth
Date: 10-27-04
Field Personnel: K Kachel J DeBoer

Project: Equity
Project Number:
Weather: Overcast, rain
Ambient Noise: 78

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1315	0.0	.027	0.0	0.0	.029	80.4	
1330	0.0	.035	0.0	0.0	.032	78.8	
1345	0.0	.034	0.0	0.0	.033	79.0	
1400	0.0	.031	0.0	0.0	.033	79.6	
1415	0.0	.032	0.0	0.0	.037	79.3	
1430	0.0	.030	0.0	0.0	.037	79.4	
1445	0.0	.029	0.0	0.0	.034	76.7	
1500	0.0	.033	0.0	0.0	.036	80.7	
1515	0.0	.033	0.0	0.0	.035	83.7	1520 - Cap off

Client: National Grid.
Location: Maspeth Ave Brooklyn NY
Date: 10-27-04
Field Personnel: K Kachel, J DeBoer

Project:
Project Number:
Weather: rain, 50's
Ambient Noise: 73 dB

Community Air Monitoring Plan / Noise Field Log

Rain

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
			0755	turned on	air monitoring equipment		PID / DT / PID / DT
0800	0.0	0.033		not measured		70.0	UW: 13264 / 12715 / DW 01396 / 12956
0815	0.0	.028	0.0	0.0	.040	71.3	Background = upwind PID malfunctioning - storage area to have recalibrated
0830	0.0	.026	0.0	0.0	.032	70.1	0820 Began auguring @ SB-7
0845	0.0	.036	0.0	0.0	.068	70.2	
0900	0.5	.032	0.0	0.0	.041	84.0	
0915	0.5/1.2	.037	0.0	0.0	.036	82.3	0915 UW PID malfuctioning used work zone PID. dreager = 0.0 ppm
0930	0.5	.033	0.0	0.0	.037	81.1	
0945	0.0	031	0.6	0.0	.043	79.4	@ 1000 DW PID malfunctioning. Used work zone PID. Dreager = 0.0 ppm
1000	0.5	.032	0.6	0.0	.041	81.0	
1015	0.5	.030	0.0	0.0	.046	80.2	
1030	1.0/0.0	.046	0.0	0.0	.033	78.4	1023 DW PID off (malfunctioning)
1045	1.0/0.0	.037	0.0	0.0	.036	78.2	@ 1024, UW PID malfunctioning - reading 1.5 ppm. Verified 0.0 ppm w/ work zone PID. Dreager = 0.0 ppm
1100	0.0	.019	0.0	0.0	.025	74.9	
1115	0.0	.020	0.0	0.0	.025	76.5	1050 - new UW PID on - 03287
1130	0.0	.015	0.0	0.0	.018	77.4	1052 - new DW PID on - 11316
1145	0.0	.019	0.0	0.0	.020	76.4	1055 - 03287 off - malfunctioning due to humidity.
1200	0.0	.016	0.0	0.0	.018	80.6	
1215	0.0	.017	0.0	0.0	.017	77.3	1100 Work zone PID & 11316 don't seem to be
1230	Lunch	.017	0.0		.019	74.3	effected by rain. All others on site
1245	0.0	.014	0.0	0.0	.019	79.1	not working. Will use work zone PID
1300	0.0	.026	0.0	0.0	.027	76.9	for UW. If DW (11316) fails, will use work zone PID.

☆ = taken w/ work zone PID

Client: National Grid
Location: Equity 254 Maspeth
Date: 10-28-09
Field Personnel: Josh Millard

Project: Equity
Project Number:
Weather: Overcast, Rain
Ambient Noise: Maspeth Ave, garbage trucks, Heavy equipment at Cooper tank.

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID 03287	Upwind Dust Trak 12715	Work Area PID 06271	Downwind PID 01396	Downwind Dust Trak 04870	dB Readings	Comments
10:15	0.7	0.010	0.0	0.0	0.001	89.7	Re-cal Zero Gas on Up wind
11:35	12.8*	0.008	0.0	0.0	0.010	100.1 Driving Casing	Changed out Dustrack 12715 for 03187
12:00	10.2	0.007	0.0	0.0	0.008	79.0	
13:30	11.1	0.007	0.0	0.0	0.006	96.	→ Driving Casing, PEC wearing hear plus
14:50	0.7	0.007	0.0	0.0	0.000	79	→ Rain still heavy
16:00	0.0	0.004	0.0	0.0	0.001	80.1	→ Rain stopped.

* Heavy Rain

Client: National Grid
Location: 254 Maspeth Ave, Brooklyn, NY
Date: 10-29-09
Field Personnel: Josh Millard

Project: Equity
Project Number:
Weather: Partly Cloudy, Mid
Ambient Noise: Road + Trucks.

Community Air Monitoring Plan / Noise Field Log

03287 12715 06271 01396 04870

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
11:50	0.0	0.026	0.0	0.0	0.064	70.2	Using Winch handle
12:15	0.0	0.030	0.0	0.0	0.039	78.9	
13:15	0.0	0.084	0.2	0.0	0.023	77.6	Advancing Rollers 5.7
13:30	0.0	0.040	0.2	0.0	0.032	78.8	
13:45	0.0	0.021	0.2	0.0	0.031	72.7	
14:15	0.0	0.034	0.2	0.0	0.035	81.1	
14:30	0.0	0.026	0.3	0.0	0.015	80.9	
15:30	0.0	0.021	0.0	0.0	0.025	80.2	
16:00	0.0	0.023	0.0	0.0	0.017	75.4	
16:30	0.0	0.121	0.0	0.0	0.101	80.3	
17:30	0.0	0.035	0.0	0.1	0.024	80.6	

Client: National Grid
Location: Equity - SB3/MW3C
Date: 10/30/09
Field Personnel: JMillard, JPfeiffer.

Project Number:
Project: 04940-182-300
Project Number: EQUITY
Weather: Temp ~60°F, clear wind <5mph SSW
Ambient Noise: 70.9

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0815-0825 SET UP CAMP ~~ROA~~ (SB-3C)							
0830	0.3	0.050	0.1	0.0	0.044	70.6	Mob SB3/MW3C
0845	0.3	0.042	0.1	0.0	0.045	76.1	pumping water from tank
0900	0.2	0.034	0.2.	0.0	0.026.	80.4	Split spoon sampling.
0915	0.1	0.032	0.2	0.0	0.021	76.5	
0930	0.0	0.025	0.4	0.0	0.017	79.8	Roller bit advance
1000	0.9	0.021	0.2	0.0	0.031	89.9	Split spoon collection.
1018	0.9	0.018.	0.2.	0.0	0.017.	79.3	no work, retriving new material &
10385	0.9	0.017	0.3	0.0	0.022	76.1	pull up rods.
1050	0.7	0.015	0.1	0.0	0.017.	81.3.	roller bit and pumping
1105	0.9.	0.016	1.0 *	0.0	0.032	75.5	roller bit and pumping
1120	0.9.	0.018	1.0 *	0.0	0.017.	78.3	roller bit and pumping.
1137.			0.2	0.0	0.027	71.9	
1150	0.4	0.017	0.4	0.0	0.018	70.0	wash well + boring out.
1200	0.6	0.018.	0.3	0.0.	0.019	<70.0.	
1215	0.8	0.017.	0.3	0.0	0.019	70.1	
1230	0.6	0.017	0.3	0.0	0.016	70.3	demobing
1245	CAMP	DOWN/OFF					

* Recalibrated PID w/ span cal gas. See calibration log. Correction factor change.

Client: National Grid.
Location: SB-3/MW-3C
Date: 11-2-09
Field Personnel: J. Pfeiffer

Project: EQUITY
Project Number: 04940-187-300
Weather: Temp 50°F, light rain, overcast.
Ambient Noise: 70.0
Wind NE ~ 15 mph.

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1015	Setup CAMP MW-3C						
1030	1.5	0.013	0.0 ~~<70.0 max~~	0.1	0.012	<70.0	Mobilize / set up MW-3C
1045	0.3	0.016	0.4	0.2	0.017	80.6	Mixing grout.
1100	0.4	0.015	0.7	0.4	0.023	81.5	grouting MW-3C
1115	0.4	0.011	0.6	0.4	0.022	82.7	pulling casing (4")
1130	0.4	0.010	0.6	0.4	0.010	81.5	pulling casing (4")
1145	0.4	0.012	0.7	0.4	0.016 *	88.5	pulling casing (4").
1203	0.4	0.016.	0.7	0.5	0.009	85.1	
1215	CAMP off, move to SB 12 turn on.						
1330	0.2	0.015	0.8	0.5	0.013	70.5	Rig mobigning to SB-12B.
1345	0.3	0.017	0.8	0.5	0.019.	81.9	Set up on SB-12B
1400	—	—	—	—	—	—	augers advanced
1415	0.3	0.017	0.8.	0.5	0.014.	75.7.	advance augers to 12'
1430	0.3	0.011	0.8	0.4	0.014.	78.0	
1445							
1500							
1515							
1530							
1545							

UPWIND PID correction factor changed to 1.00.
dustrak time 1 hour ahead, unable to change

*dustrak downwind off @ 1145 reading, turn back on, begin data log again.

Client: NATIONAL GRID.
Location: SB-12B
Date: 11-3-2009
Field Personnel: J. PFEIFFER.

Project: EQUITY
Project Number: 04940-181-300
Weather: Temp. ~60°F, clear, calm
Ambient Noise: 71.0 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0730 - 0745 SET UP CAMP							
0750	0.2	0.031	0.2	0.2	0.033	70.7	Set up SB-12B.
0800	0.3	0.023	0.1	0.3	0.025	90.0	ADVANCE SB-12B
0815	0.3	0.024	0.2	0.4	0.028	80.0	"
0830	0.4	0.031	0.2	0.4	0.026	78.4	"
0845	0.3	0.024	0.2	0.4	0.020	77.9	"
0900	0.3	0.023	0.3	0.4	0.029	78.4	"
0915	0.3	0.029					"
0930	0.2	0.028	0.4	0.4	0.048	84.0	"
~~0945~~	~~0.1~~		~~0.6~~			~~76.1~~	"
1000	0.3	0.054	0.6	0.4	0.041	76.1	"
1015	0.3	0.048	0.5	0.7	0.057	83.3	"
1030	0.4	0.071	0.5	0.7	0.049	78.2	"
1045	—	—	—	—	—	—	"
1100	0.3	0.032.	0.5	0.6	0.032.	77.8	"
1145	0.2	0.031	0.6.	0.7	0.043.	72.5	complete advancing.
1230	0.2	0.026	0.6	0.6	0.028	73.4	pull rods, augers, grout.
1315	0.1	0.034	0.3	0.6	0.042	73.8	"
1330	0.2	0.063	0.3	0.5	0.041	75.9	"
1345	0.2	0.365	0.3	0.5	0.068	75.7.	
1415	TAKE CAMP DOWN.						

downwind dustrak was off when reading collected @ 0750. change batteries, turn on, begin logging.

Client: NATIONAL GRID
Location: MW-7A
Date: 11-3-2009
Field Personnel: JPRAFFER

Project: EQUITY
Project Number: 04940-181-300
Weather: clear, mostly cloudy, Temp 65°F.
Ambient Noise: 73.2

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1645 SET UP CAMP MW-7A							
1640	0.3	0.064	0.5	0.6	0.087	74.9	set up MW7A
1700	0.3	0.316	0.5	0.6	0.062	83.7	advance augers
1715	0.1	0.034	0.4	0.5	0.034	83.4	
1730	0.2	0.023	0.3	0.5	0.034	79.5	pull augers, well installed
1745	0.3	0.028	0.5	0.6	0.032	82.2	
1730-1755 CAMP OFF.							

1730 upwind dustrak meter off (low battery) replace battery and begin datalogging again @ 1730.

Client: National Grid / Equity
Location: Brooklyn, NY
Date: 11/5/09
Field Personnel: Kantor

Project: Equity
Project Number:
Weather: Mostly Sunny Am 40-54°F
Ambient Noise: Vehicle Traffic

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0800	0.0	0.032	0.0	0.1	0.039	70.2	
0815	0.0	0.034	0.0	0.1	0.051	70.5	
0830	0.0	0.044	0.1	0.2	0.041	71.2	
0845	0.0	0.047	0.1	0.2	0.048	83.8	
0900	0.0	0.043	0.2	0.3	0.045	70.0	
0915	0.4	0.035	0.2	0.3	0.034	70.5	
0930	0.2	0.039	0.3	0.4	0.033	72.0	
0945	0.2	0.046	0.5	0.5	0.040	72.5	
1000	0.1	0.039	0.2	0.3	0.035	75.8	
1015	0.2	0.047	0.3	0.3	0.042	76.1	
1030	0.2	0.161	0.3	0.4	0.064	81.0	
1045	0.2	0.042	0.3	0.4	0.046	84.2	
1100	0.2	0.045	0.4	0.4	0.056	86.4	
1115	0.3	0.082	0.3	0.3	0.057	81.6	
1130	0.2	0.078	0.4	0.4	0.065	76.7	
1145	0.3	0.065	0.4	0.4	0.056	77.4	
1210	0.3	0.089	0.4	0.4	0.073	72.9	Break for Lunch
1300	0.2	0.217	0.3	0.4	0.038	70.2	
1315	0.2	0.050	0.4	0.3	0.054	70.3	
1330	0.3	0.037	0.4	0.3	0.038	70.0	
1345	0.2	0.034	0.4	0.4	0.034	70.0	
1400	0.3	0.082	0.6	0.5	0.057	71.8	Rig to Decon Area
1510	0.5	0.111	0.8	0.8	0.111	78.3	
1525	0.9	0.074	1.2	1.3	0.101	84.1	Change out Downwind Dust Trak S/N 12956
1540	0.4	0.091	0.7	0.7	0.099	84.5	
1555	0.3	0.046	0.4	0.6	0.064	84.5	

Client: NATIONAL GRID / EQUITY
Location: BROOKLYN NY
Date: 11/4/09
Field Personnel: JP, PE

Project: EQUITY
Project Number:
Weather: MOSTLY SUNNY 38-54°F
Ambient Noise: VEHICULAR TRAFFIC

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0905	0.0	0.016	0.0	0.1	0.019	69.9	DUST TRAKS 1 hr BEHIND
0920	0.0	0.030	0.0	0.5	0.037	85.2	MW-3A LOCATION
0935	0.0	0.013	0.0	0.2	0.017	75.6	
0950	0.0	0.017	0.0	0.2	0.05	82.5	
1010	0.0	0.025	0.1	0.1	0.028	78.2	
1030	0.2	0.069	0.1	0.2	0.036	78.7	
1050	0.3	0.058	0.0	0.2	0.034	80.6	
1105	0.3	0.025	0.3	0.2	0.031	77.4	
1120	0.4	0.144	0.4	0.4	0.094	76.4	
1135	0.5	0.274	0.5	0.3	0.045	71.2	
1150	0.5	0.079	0.5	0.3	0.078	72.6	BREAK FOR LUNCH
1255	0.4	0.037	0.3	0.4	0.054	77.8	MOVED TO MW-4A LOCATION
1310	0.5	0.014	0.3	0.4	0.016	84.4	
1325	0.5	0.039	0.4	0.4	0.028	92.5	
1340	0.0	0.016	0.3	0.4	0.014	70.5	
1405	0.0	0.023	0.4	0.5	0.034	74.7	
1420	0.0	0.016	0.3	0.4	0.017	FULL -	
1455	0.5	0.029	0.4	0.5	0.029	76.2	REPLACE DOS. METER
1515	0.0	0.067	0.5	0.5	0.044	72.7	
1536	0.0	0.009	0.4	0.5	0.011	74.2	
1550	0.0	0.026	0.5	0.6	0.035	76.3	
1605	0.0	0.009	0.4	0.6	0.012	73.3	
1620	0.0	0.048	0.5	0.6	0.045	55.2	
1640	0.0	0.024	0.5	0.6	0.009	70.0	

CAMP / NOISE LOG Page 2

~~Air Quality Monitoring Record~~ 11/5/09 THUR

Client: NATIONAL GRID / EQUITY
Location: Brooklyn NY
Project Mgr.:

Project No.:
Site Eng.:
Site H&S Officer: KANTOR

~~Date~~ TIME	UPWIND ~~Initial~~ PID	UPWIND ~~Time~~ DUST TRAK	WORK AREA PID ~~Location~~	DOWNWIND ~~PID/FID PPM~~ DUST TRAK	DOWNWIND PID ~~Dust~~ READINGS	dB ~~LEL%~~ READINGS	~~Dräeger Tubes~~ COMMENTS			~~Other~~
1610	0.5	0.130	0.6	0.131	0.7	86.4				
1630	0.5	0.093	0.7	0.081	0.7	84.8				
1645	0.3	0.034	0.5	0.048	0.6	73.0				
1700	0.4	0.066	0.6	0.166	0.8	75.5				

Client: National Grid
Location: Fenley, Brookhaven NY
Date: 11/6/19 Fri
Field Personnel: Kenton

Project: Fenley
Project Number:
Weather: Mostly Sunny Windy 40-49°F
Ambient Noise: Vehicular Traffic

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0920	0.0	0.022	0.3	0.1	0.025	70.1	
0935	0.0	0.057	0.4	0.1	0.026	82.2	
0950	0.1	0.023	0.5	0.1	0.038	91.8	
0905	0.1	0.018	0.5	0.2	0.024	72.6	
0920	0.1	0.020	0.6	0.2	0.012	79.6	
0935	0.1	0.023	0.6	0.2	0.011	73.1	
0950	0.1	0.012	0.6	0.3	0.006	63.4	
1005	0.1	0.006	0.7	0.3	0.027	77.1	
1030	0.2	0.069	0.7	0.3	0.050	86.9	
1045	0.2	0.048	0.7	0.3	0.026	70.1	
1100	0.1	0.036	0.7	0.3	0.037	74.7	
1115	0.1	0.022	0.7	0.3	0.020	75.0	
1130	0.2	0.021	0.7	0.3	0.017	75.1	
1150	0.2	0.008	0.7	0.3	0.008	76.1	
1210	0.2	0.044	0.7	0.3	0.027	70.0	
1225	0.3	0.014	0.7	0.3	0.019	70.2	SAND PACK WELL
1250	0.3	0.017	0.7	0.3	0.028	74.0	
1305	0.2	0.015	0.7	0.3	0.033	73.7	
1325	0.2	0.020	0.8	0.3	0.022	74.1	
1340	0.2	0.025	0.7	0.4	0.024	73.4	Drilling Complete

AECOM

Client: NATIONAL GRID
Location: BROOKLYN, NY
Date: 11/18/09, WED.
Field Personnel: KANTOR

Project: EQUITY
Project Number:
Weather: SUNNY 45-55°F
Ambient Noise: TRAFFIC

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1000	0.0	0.106	0.3	0.0	0.054	87.8	UPWIND DUST TRAK IS AFFECTED
1015	0.0	0.067	0.3	0.0	0.080	74.4	BY TRAFFIC FLOW
1030	0.0	0.127	0.5	0.0	0.081	70.3	
1045	0.0	0.049	0.5	0.0	0.047	70.0	
1105	0.0	0.0606	0.5	0.0	0.062	70.0	
1115	0.0	0.044	0.7	0.0	0.044	81.5	
1130	0.0	0.045	0.5	0.0	0.035	70.0	
1145	0.0	0.027	0.5	0.0	0.031	96.4	DURING PROBING
1200	0.0	0.056	0.6	0.0	0.040	70.0	CREW ON LUNCH
1300	0.0	0.118	0.5	0.0	0.077	94.8	
1315	0.0	0.073	0.5	0.0	0.048	72.2	
1330	0.0	0.070	0.5	0.0	0.052	70.3	
1345	0.0	0.030	0.5	0.0	0.069	82.7	
1410	0.0	0.032	0.5	0.0	0.060	71.1	
1430	0.0	0.052	0.5	0.0	0.054	89.4	
1445	0.0	0.068	0.6	0.0	0.049	95.0	
1515	0.0	0.063	0.7	0.0	0.045	77.9	LAG DUE TO CAB PICK-UP
1530	0.0	0.067	0.9	0.0	0.039	86.7	
1550	0.0	0.057	0.8	0.0	0.098	70.0	END WORK

AECOM

Client: National Grid
Location: Brooklyn, NY
Date: 11/19/09
Field Personnel: Kanton

Project: Equity
Project Number:
Weather: Mostly cloudy, ch. rain 48-55°F
Ambient Noise: Traffic

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0930	0.0	0.181	0.0	0.0	0.095	73.3	Recal upwind PID w/ Fresh air
0945	0.0	0.078	0.0	0.0	0.081	85.6	
1000	0.0	0.085	0.0	0.0	0.079	80.2	
1015	0.0	0.103	0.0	0.0/0.1	0.086	71.1	Drill paused, unloading truck.
1030	0.0	0.097	0.0	0.0	0.062	78.1	" "
1100	0.0/1.6	0.080	0.0	0.0/0.1	0.075	76.2	F&N Fueling the Geo Probe
1115	0.0	0.092	0.0	0.0	0.078	78.0	
1130	0.0	0.064	0.0	0.0	0.085	93.9	
1145	0.0	0.094	0.0	0.0	0.093	84.4	
1200	0.0	0.112	0.0	0.0/0.1	0.095	86.2	BREAK
1300	0.0	0.074	0.0	0.0/0.1	0.082	92.3	
1315	0.0	0.058	0.0	0.0	0.052	94.4	Begin steady drilling
1345	0.4/8.6	0.090	0.1	0.4	0.083	86.5	
1415	0.4/8.6	0.026	0.7	0.5	0.070	85.5	upwind PID tip wet
1445	—	0.198	0.3	1.1	0.157	84.0	upwind PID malfunction

AECOM

Client: NATIONAL GRID
Location: BROOKLYN, NY
Date: 11/20/09 FRI.
Field Personnel: KAN TOR

Project: EQUITY
Project Number:
Weather: MOSTLY SUNNY, BREEZY
Ambient Noise: TRAFFIC

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0940	0.0	0.028	0.0	0.0	0.040	83.3	Commenced drilling
1000	0.0	0.035	0.0	0.0	0.037	88.9	
1015	0.0	0.031	0.0	0.0	0.026	89.6	
1040	0.0	0.021	0.6/0.7	0.0	0028	79.5	Product detected on soil @ 78'
1100	0.0	0.026	0.7	0.0	0.026	75.2	
1115	0.0	0.026	0.1	0.0	0.025	87.8	
1130	0.0	0.025	0.9/1.0	0.0	0.045	95.0	
1200	0.1/0.2	0.019	0.3	0.0	0.020	70.2	
1225	0.1/0.2	0.025	1.7	0.0	0.021	77.7	Crew on break
1315	0.2	0.020	0.1/0.2	0.0	0.030	87.8	
1330	0.2	0.017	0.1	0.0	0.045	97.6	
1345	0.3	0.020	0.1	0.0	0.017	97.7	
1400	0.3	—	0.0	0.0	0.034	93.3	Dead battery on upwind Dust Trak
1420	0.3	—	0.0	0.0	0016	87.0	
1445	0.2	—	0.5	0.0	0016	70.0	
1515	0.3	—	0.8	0.0	0.022	83.9	
1530	0.3	—	0.2	0.0	0029	90.0	End Drilling

AECOM

Client: NATIONAL GRID
Location: BROOKLYN, NY
Date: 11/23/09 MON
Field Personnel: LANTOR / SLATON

Project: EQUITY
Project Number:
Weather: OVERCAST, CHANCE PM RAIN BREEZY 42-50°F
Ambient Noise: TRAFFIC

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0912	0.0	0.061	0.8	0.0	0.048	81.9	Drilling begins
0930	0.0	0.285	0.1	0.0	0.069	96.7	Work Area P.I.D. Recalibrated
0950	0.0	0.040	0.2	0.0	0.080	94.4	
1010	0.0	0.036	0.3	0.0	0.046	98.9	
1030	0.0	0.090	0.1	0.0	0.049	80.1	
1055	0.0	0.045	0.6	0.0	0.044	70.8	Core taken for #1 C
1125	0.0	0.061	0.5	0.0	0.085	[redacted] 75.9	Not currently drilling
1220	0.0	0.049	0.9	0.0	0.037	81.4	Drillers on lunch
1250	0.0	0.048	0.9	0.1	0.049	103.2	Battery for upwind Dust Trak is nearly dead
1310	0.0	—	0.9	0.1	0.098	100.3	
1335	0.0	—	0.8	0.0	0.040	71.6	
1355	0.0	—	0.9	0.0	0.075	100.2	
1415	0.0	—	1.1	0.1	0.049	97.5	
1432	0.0	—	1.0	0.1	0.050	97.9	
1451	0.0	—	1.4	0.1	0.034	97.9	
1520	0.0	—	1.7	0.1	0.049	101.3	
1555	0.0	—	1.0	0.2	0.052	98.3	

AECOM

Client: National Grid
Location: Brooklyn, NY
Date: 11/24/09 TUE
Field Personnel: Canton

Project: Equity
Project Number: 60137362
Weather: overcast breezy 50-55°F
Ambient Noise: Traffic

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1420	0.0	0.056	0.0	0.0	0.058	74.5	Begin intrusive activities late
1505	0.0	0.077	0.0	0.0	0063	72.4	
1520	0.0	0.090	0.0	0.0	0.072	78.6	
1540	0.0	0.071	0.0	0.0	0.059	75.5	
1600	0.0	0.049	0.1	0.0	0.100	75.8	

AECOM

Client: NATIONAL GRID
Location: Brooklyn, NY
Date: 11/25/09 WED
Field Personnel: KANTOR

Project: EQUITY
Project Number: 60137362
Weather: OVERCAST, CHANCE PM RAIN 49-52°F
Ambient Noise: TRAFFIC

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0845	0.0	0.305	0.2	0.0~~79~~ ~~[illegible]~~	0.079	88.3	Pre-drill - location very dusty -
0900	0.0	0.112	0.0	~~0.075~~ 0.2	0.095	97.7	
0915	0.0	0.131	0.0	0.2	0.091	75.5	
0930	0.0	0.095	0.2	0.1/0.3	0.062	77.9	
0945	0.0	0.080	0.4	0.4	0.088	72.2	
1015	0.0	0.108	2.6	0.4	0.107	79.0	
1035	0.0	0.160	6.3	0.4	~~0.080~~ 0.092	76.4	
1058	0.0	0.123	4.1	0.4	0.094	91.6	
1115	0.0	—	2.1	0.4	0.082	81.9	Batt. drain on upwind dust trak *
1240	0.0	—	0.5	1.0	0.072	71.6	Recalibrate work area PID (zero)
1305	0.0	—	0.0	0.0	0.054	72.2	
1325	0.0	—	0.0	1.9	0.072	83.3	Rain affecting downwind PID - recal
1345	0.0	—	0.0	0.0	0.096	73.7	
1400	0.0	—	0.0	0.0	0.101	73.5	
1425	0.0	—	0.0	0.0	0.031	73.6	

* NOTE - Upwind DUST TRAK BATTERY WAS AT 100% CHARGE AT THE BEGINNING OF THE DAY

AECOM

Client: National Grid
Location: Brooklyn, NY
Date: 11/30/09 Mon
Field Personnel: Kantor

Project: Equity
Project Number: 60137362
Weather: Overcast, breezy, chance rain 54-56°F
Ambient Noise: Traffic

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0955	0.0	0.053	0.0	0.0	0.031	81.9	
1055	0.0	0.029	0.0	0.0	0.028	76.8	
1255	0.0	0.041	0.0	0.2/0.3	0.062	82.4	
	~~0.3~~	~~0.004~~	~~0.0~~			~~73.0~~	
1410	0.0	—	0.0	0.2/0.3	0.004	73.0	

RI Addendum No. 1 (2011)

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 9/1/11
Field Personnel: J. Ehlen

Project: Equity
Project Number:
Weather: ~85°F, sunny, little to no wind
Ambient Noise: 81 dB

Community Air Monitoring Plan / Noise Field Log

pg 1 of 1

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
835	0.0	0.063	0.0	0.0	0.068	81.2	hand clearing electrical lines on East side of site
851	0.0	0.068	0.0	0.0	0.047	82.0	"
905	0.0	0.051	0.0	0.0	0.062	82.7	"
920	0.0	0.050	0.0	0.0	0.067	81.2	"
935	0.0	0.034	0.0	0.0	0.063	81.7	" hand-clearance & break
1010	0.0	0.029	0.0	0.0	0.026	81.2	"
1025	0.0	0.029	0.0	0.0	0.026	79.1	"
1041	0.0	0.023	0.0	0.0	0.022	80.2	"
1100	0.0	0.032	0.0	0.0	0.024	77.3	" light wind from the East
1115	0.0	0.043	0.0	0.0	0.036	80.6	Backfilling hole on East side of site, stopped @ 9'3" couldn't find electric
1134	→ Mob to TP-8 ←						
1140	0.0	0.014	0.0	0.0	0.007	82.7	excavating TP-8
1208	0.0	0.013	0.0	0.0	0.010	NA	"
1240	0.0	0.016	0.0	~~0.0~~	~~0.016~~	83.3	~~backfilling~~ TP-8
1300	0.0	0.012	0.0	0.0	0.036	88.5	leveling TP-8 → mob to TP-5
1328	0.0	0.013	0.0	0.0	0.017	85.2	setting up on TP-5
1350	0.0	0.016	0.0	0.0	0.017	81.3	stand by to move equipment
1405	0.0	0.012	0.0	0.0	0.029	82.9	excavating TP-5
1420	0.0	0.015	0.0	0.0	0.044	89.5	mob to TP-6
1436	0.0	0.014	0.0	0.0	0.040	88.3	excavating TP-6
1455	0.0	0.016	0.0	0.0	0.024	87.7	excavating TP-6
1515	0.0	0.073	0.0	0.0	0.023	87.4	excavating TP-6
1540	0.0	0.017	0.0	0.0	0.040	83.3	excavating tp-6
1555	0.0	0.045	0.0	0.0	0.080	84.7	excavating tp-6

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 9/2/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~75°F, sunny, little wind
Ambient Noise: ~80 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
740	0.0	0.015	0.0	0.0	0.026	86.5	excavating TP-7
755	0.0	0.015	0.0	0.0	0.019	86.8	"
813	0.0	0.017	0.0	0.0	0.017	83.8	"
829	0.0	0.012	0.0	0.0	0.024	82.8	backfilling TP-7
850	0.0	0.012	0.0	0.0	0.049	84.2	Grading area by TP-6 → TP-mob to 16 & move trucks for rolloff to be put in yard
936	0.1	0.013	0.2	0.1	0.033	82.3	excavating TP-16
950	**0.1**	**0.013**	**0.8**	**0.1**	**0.016**	**84.5**	**excavating TP-16**
1005	0.1	0.013	1.3		0.015	83.4	
1020	0.2	0.012	3.4		0.017	82.5	
1035	0.2	0.013	0.5		0.015	78.9	
1050	0.2	0.026	0.3	0.1	0.014	78.4	moving to TP-13
1250	0.1	0.040	0.0	0.1	0.063	74.2	excavating TP-13 → no excavation activities
1320	0.2	0.021	0.0	0.1	0.031	72.3	mob to south excavation of TP-13
1340	0.2	0.018	0.0	0.0	0.023	82.6	excavating TP-13
1356	0.2	0.036	0.0	0.0	0.022	86.5	backfilling TP-13
1410	0.2	0.026	0.0	0.0	0.028	80.3	leveling TP-13
1443	0.1	0.024	0.0	0.1	0.034	90.6	excavating TP-14
1508	0.1	0.033	0.0	0.1	0.036	83.9	Backfilling TP-14
1525	Finished backfilling TP-14						

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 9/7/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: 70°F, light wind, drizzle to rain
Ambient Noise: ~80 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
740	0.0	0.006	0.0	0.0	0.023	89.1	excavating TP-15
800	0.0	0.010	0.0	0.0	0.011	85.9	excavating TP-15
820	0.0	0.006	0.0	0.0	0.032	88.0	backfilling TP-15
840	0.0	0.010	0.0	0.0	0.010	93.1	mob to TP-17
900	0.0	0.009	0.0	0.0	0.010	92.3	excavating TP-17
915	0.0	0.010	0.0	0.0	0.008	85.2	excavating TP-17
935	0.0	0.016	0.0	0.0	0.016	82.9	" Begins to mist.
950	0.6	0.007	0.0	0.0	0.009	86.7	Backfilling TP-17 rain
1005	1.0	0.006	0.0	0.0	0.006	93.0	" drizzle
1035	2.7	0.012	0.1	0.0	0.013	93.1	TP-16 soil drizzle
1050							De-coning equipment. misting
1140	0.9	0.011	0.0	0.0	0.012	92.4	extending TP-17 North no precipitation
1155	1.1	0.012	0.0	0.0	0.012	82.3	excavating TP-17 North
1215	0.9	0.015	0.1	0.1	0.026	93.5	backfilling TP-17 North
1330	0.1	0.022	0.0	0.1	0.026	87.7	excavating TP-15A misting
1347	0.5	0.014	0.0	0.1	0.023	83.4	excavating TP-15A
1401	0.8	0.018	0.0	0.0	0.019	84.4	"
1425	0.1	0.011	0.0	0.0	0.037	83.8	backfilling TP-15A
1448	0.0	0.009	0.0	0.0	0.009	84.9	setting up for TP-12
1515	1.0	0.032	0.0	0.0	0.009	87.0	backfilling TP-12

* 935 - Re-caled upwind pid - was reading Negative.

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 9/8/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~70°F, mostly cloudy, breezy, occasional rain
Ambient Noise: ~80 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
830	0.0	0.009	0.3	0.6	0.013	80.6	Step out TP-12A offset 1
845	0.0	0.007	0.5	0.6	0.007	83.5	Step out TP-12A offset 2
900	0.0	0.009	0.0	0.6	0.006	85.6	Step out TP-12A offset 3
920	0.0	0.017	0.0	0.7	0.006	78.0	excavating TP-12A
945	0.0	0.017	0.0	0.7	0.006	91.4	backfilling TP-12A
1001	0.0	0.015	0.0	0.8	0.006	86.4	"
1021	0.0	0.019	0.1	0.8	0.088	93.6	excavating TP-11 N to S
1121	0.0	0.003	0.1	1.0	0.062	90.5	excavating TP-11 E to W
1140	0.0	0.008	0.1	1.0	0.065	90.0	backfilling TP-11 E to W
1240	—	—	0.3	1.0	0.057	93.2	"
1300	0.0	0.008	0.1	1.0	0.055	87.6	mob to TP-10
1315	0.0	0.003	0.2	0.8	0.056	86.6	excavating TP-10

Sunny

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 9/9/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~80°F, mostly sunny, breezy
Ambient Noise: ~75dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
800	0.0	0.014	0.0	0.0	0.014	91.4	excavating TP-2B
815	0.0	0.009	0.0	0.0	0.019	87.3	"
830	0.0	0.010	0.0	0.1	0.085	83.9	"
850	0.0	0.015	0.0	0.1	0.012	79.4	sampling TP-2B
920	0.0	0.022	0.0	0.1	0.018	88.7	backfilling TP-2B
1030	0.0	0.022	0.0	0.1	0.021	81.9	excavating TP-2C
1100	0.0	0.016	0.0	0.1	0.021	81.8	backfilling TP-2C
1115	0.0	0.022	0.0	0.1	0.023	81.4	leveling area @ TP-2C
1143	0.0	0.057	0.1	0.4	0.011	83.9	excavating TP-4
1300	0.0	0.055	0.0	0.2	0.032	82.7	"
1315	0.0	0.054	0.0	0.2	0.013	85.3	"
1355	0.0	0.022	0.1	0.3	0.006	81.4	"
1443	0.0	0.101	0.2	NA	0.014	87.1	Backfilling TP-4
1325	0.0	0.110	0.1	0.2	0.022	87.7	

> lunch & refueling backhoe

1443 work area in downwind area reads 0.2ppm

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/12/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~80°F, Sunny/humid, little wind
Ambient Noise: ~78 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
820	0.0	0.053	0.0	0.2	0.149	95.5	excavating TP-20
839	0.0	0.048	0.0	0.3	0.103	85.3	backfilling TP-20
855	0.0	0.104	0.4	0.8	0.166	91.3	backfilling / leveling TP-20
940	0.0	0.106	0.0	0.1	0.107	96.5	backfilling TP-18
1015	0.0	0.133	0.2	0.3	0.185	87.9	leveling / TP-18
1050	0.0	0.154	0.2	0.2	0.110	89.3	excavating TP-19
1104	0.0	0.155	1.2	0.0	0.132	91.7	excavating TP-19
1125	0.0	0.056	0.0	0.1	0.138	84.2	backfilling TP-19
1140	0.0	0.061	0.0	0.0	~~0.104~~	91.4	excavating / TP-21
1201	0.0	0.108	0.2	0.3	0.120	90.7	backfilling TP-21

AECOM

Client: National Grid
Location: 2514 Maspeth Ave
Date: 9/19/11
Field Personnel: J. Ehlen / J. Smith

Project: Equity - [redacted] RD
Project Number: 60137362-310
Weather: ~75°F, partly cloudy, little wind
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1442	0.0	0.011	0.0	0.0	0.025	81.3	Preclearance of SB-22 — truck pulled in lot
1457	0.0	0.008	0.0	0.0	0.025	78.0	Preclearance of SB-22
1511	0.0	0.015	0.0	0.0	0.018	77.3	" "
1522	0.0	0.009	0.0	0.0	.303	74.0	Bobcat driveby
1538	0.0	0.010	0.0	0.0	.020	77.4	Preclearance of SB-22
1551	0.0	0.009	0.0	0.0	.023	78.2	" "
1602	0.0	0.010	0.0	0.0	0.018	77.9	" "
1615	0.0	0.008	0.0	0.0	.019	77.0	" " — Bobcat pulled in
1629	0.0	.005	0.0	0.0	.038	80.4	" "
1642	0.0	0.005	0.0	0.0	0.021	76.0	" "
1654	0.0	.006	0.0	0.0	0.020	77.1	" "

AECOM

Client: National Grid
Location: Equity - 252 Maspeth Ave
Date: 9/20/11
Field Personnel: J. Ehlen / J. Smith

RI
Project: Equity ~~BCA~~
Project Number: 60137362-310
Weather: ~70°F, cloudy, light wind, misting
Ambient Noise: ~

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
826	0.6	0.136	0.7	0.2	0.086	NA	setting up on SB-21
843	0.4	.091	0.0	0.0	0.120	96.3	"
912	0.4	.085	~~0.0~~	0.0	0.051	97.0	Equipment delivery @ 254 Maspeth
926	0.5	.023	0.0	0.0	.067	98.9	
937	0.7	.068	0.0	0.0	.066	100.3	SB-21
954	.9	.067	0.1	0.3	.081	101.0	"
1009	1.0	.062	1.0	0.1	.063	96.1	
1025	1.0	.060	0.0	0.2	.056	100.2	Drilling SB-21
1040	0.9	.053	0.0	0.0	.047	97.5	"
1054	0.9	.073	0.0	0.0	.038	99.8	"
1109	0.7	.178	0.0	0.0	.089	94.4	"
1123	0.7	.643	N/A	0.0	.039	87.0	" - drill
1142	~~0.0~~ 1.2	.077	+/- 0.9	0.1	.067	96.9	" - stoppage
1203	1.1	.047	N/A	0.1	.076	84.5	" - Restart
1253	1.1	.044	1.7	0.2	.033	98.5	" - stop
1310	0.7	.090	0.1	0.1	.099	99.5	" - Restart
1326	0.6	0.076	0.1	0.3	0.062	99.9	"
1335	0.5	0.060	0.0	0.1	0.040	95.6	"

* Misters from 252 facility ~~affecting~~ pid & dust trak's, moved upwind camp to try & fix.

AECOM

Client: N. Grid
Location: 252 Maspeth
Date: 9/21/11
Field Personnel: _____

Project: Equity
Project Number: 60137362
Weather: _____
Ambient Noise: _____

Community Air Monitoring Plan / Noise Field Log

Pg 2 of 2

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1550	0.0	0.032	0.0	0.2	0.082	86.4	Tremie grouting

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/21/11
Field Personnel: J. Ehlen

Project: Equity ~~Drum~~ RI
Project Number: 60137362
Weather: ~70°F, humid, cloudy, little wind
Ambient Noise: ~78 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
740	0.105	0.0	0.0	0.0	0.105	91.3	Drilling SB-21 from 55' bgs
752	0.117	0.0	0.0	0.0	0.106	91.1	"
812	0.111	0.0	0.0	0.0	0.100	89.0	"
826	0.099	0.0	0.0	0.0	0.087	90.4	"
840	0.095	0.0	0.0	0.0	0.086	91.5	" hazy sun shine
856	0.093	0.0	0.0	0.0	0.084	94.5	"
915	0.092	0.0	0.0	0.0	0.082	89.5	"
925	0.091	0.0	0.7	0.0	0.078	89.9	"
942	0.082	0.0	0.0	0.0	0.071	92.8	"
956	0.083	0.0	0.8	1.4	0.175	91.6	"
1010	0.108	0.4	0.4	1.4	0.102	87.5	" strong fuel odor coming from onsite storage tanks
1027	0.070	0.0	0.0	0.5	0.076	89.6	" odor continues near downwind camp
1043	0.063	0.0	0.0	0.6	0.063	88.4	"
1150	0.100	0.2	0.6	0.8	0.197	86.8	grouting SB-21 diesel fuel odor continues → no intrusive work
1209	0.113	0.4	0.8	1.2	0.298	87.0	grouting SB-21
1233	0.049	0.0	0.2	0.6	0.079	91.3	"
1247	0.041	0.0	0.0	0.5	0.046	94.1	"
1304	0.089	0.0	0.0	0.5	0.065	83.5	"
1315	0.063	0.0	0.0	0.6	0.094	91.2	"
1335	0.058	0.0	0.0	0.9	0.086	87.4	" - increasing clouds
1350	0.049	0.0	0.0	0.7	0.085	92.4	installing MW @ SB-21
1410	0.041	0.0	0.0	0.5	0.050	92.7	"
1428	0.053	0.0	0.0	0.6	0.075	86.6	"
1500	0.200	0.0	0.0	0.7	0.153	81.9	"
1520	0.069	0.0	0.3	1.1	0.256	90.3	" - moving bobcat to get sleeves.

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/22/11
Field Personnel: J. Ehlen

Project: Equity ~~Area~~ RI
Project Number: 60137362-310
Weather: ~75°F, cloudy, humid, little wind
Ambient Noise: ~88 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
838	0.095	0.9	0.2	0.5	0.108	89.1	filling water tanks
855	0.062	0.2	0.0	0.1	0.120	99.6	Drilling SB-29
909	0.063	0.0	0.0	0.1	0.038	99.7	"
937	0.040	0.0	0.0	0.2	0.036	99.2	"
JE ~~90~~ 950	0.075	0.0	0.6	0.3	0.045	88.3	"
1005	0.109	0.0	0.3	0.8	0.173	90.8	"
1030	0.160	0.0	0.3	0.8	0.842	100.2	" truck dumping soil in garbage facility
1046	0.039	0.0	0.6	0.7	0.070	99.4	"
1115	0.064	0.1	0.3	1.0	0.047	97.3	"
1131	0.085	0.1	0.0	0.7	0.110	98.8	"
1200	0.059	0.0	0.0	0.7	0.420	98.3	" wood dust blowing into our area from garbage facility.
1226	0.086	0.0	0.0	2.2	0.325	81.3	" "
1305	0.107	0.1	0.0	2.5	0.151	97.1	" " Lunch
1339	0.096	0.0	0.0	0.5	0.160	98.6	"
1409	0.068	0.1	0.4	0.5	0.135	87.7	"
1513	0.152	0.1	0.3	1.2	0.236	97.1	" - Dust & odors from garbage facility still affecting downwind camp.
1526	0.32	0.0	0.1	0.3	0.033	99.6	"
1623	0.142	0.4	0.0	0.4	0.031	83.9	no intrusive work
1510	0.087	0.8 ~~0.187~~	0.3	0.5	0.064	86.7	no work, packing up.
1515	shut down camp.						

no intrusive work being done.

"

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/25/11
Field Personnel: J. Ehlen

Project: Equity - RI
Project Number: 60137362
Weather: ~80°F, sunny, humid, little to no wind
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

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Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
1430	0.0	0.012	0.0	0.0	0.030	100.8	Drilling SB-20
1443	0.0	0.067	0.0	0.1	0.055	70.3	"
1500	0.0	0.020	0.0	0.1	0.072	99.9	"
1516	0.0	0.018	0.0	0.2	0.050	96.6	"
1533	0.0	0.021	0.0	0.1	0.033	94.3	"
1600	0.0	0.028	0.0	0.0	0.030	88.5	installing wells MW-8 SB-2
1622	0.0	0.032	0.0	0.1	0.029	93.3	"
1635	0.0	0.028	0.0	0.0	0.033	93.1	"
1650	0.0	0.033	0.0	0.1	0.032	94.7	"
1708	0.0	0.026	0.0	0.0	0.030	93.6	"
1723	0.0	0.029	0.0	0.1	0.071	92.9	"
1745	0.0	0.028	0.0	0.2	0.034	93.2	"
1758	0.0	0.031	0.0	0.0	0.033	88.1	"
1815	0.0	0.128	0.0	0.0	0.045	94.0	" moving drums.
1827	0.0	0.034	0.0	0.0	0.042	92.8	"
1840	Stop camp, installing road box.						

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/24/11
Field Personnel: L. Ferreira

Project: Equity - [redacted] RI
Project Number: 60137362
Weather: 70s, partly cloudy
Ambient Noise:

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1230	0.0	0.049	0.0	0.0	0.080	97	installing road boxes
1245	0.0	0.028	0.0	0.0	0.040	80	↓
1315	0.0	0.047	0.0	0.0	0.187	83	
1333	0.0	0.018	0.0	0.0	0.111	87.4	No Boart activity
1530	0.0	0.028	0.0	0.0	0.052	87	Pre clearing SS-20, sonic rig breaking concrete pad
1540	0.0	0.028	0.0	0.0	0.155	91	using concrete saw.
1625	0.0	0.044	0.0	0.0	0.044	72	hand clearing

AECOM

Client: National Grid
Location: 252 Maspeth Ave
Date: 9/25/11
Field Personnel: J. Ehlen

Project: Equity-RI
Project Number: 60137362-310
Weather: ~75F, humid, mostly cloudy, little to no wind
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
730	0.0	0.028	0.0	0.3	0.099	101.6	drilling SB-20
750	0.0	0.021	0.0	0.1	0.025	93.3	"
803	0.0	0.022	0.0	0.0	0.024	99.9	"
817	0.0	0.020	0.0	0.3	0.048	90.3	" > Fixing leaks
900	0.0	0.013	0.0	0.0	0.018	90.1	"
913	0.0	0.015	0.0	0.1	0.021	96.0	"
930	0.0	0.022	0.0	0.1	0.029	100.9	"
945	0.0	0.019	0.0	0.2	0.022	96.5	"
1010	0.0	0.017	0.0	0.1	0.019	89.7	"
1024	0.0	0.019	0.0	0.3	0.019	93.0	" Sunny, breezy
1041	0.0	0.021	0.0	0.3	0.021	93.3	"
1055	0.0	0.017	0.0	0.1	0.027	94.1	"
1110	0.0	0.022	0.0	0.1	0.024	96.4	"
1125	0.0	0.015	0.0	0.3	0.023	95.2	"
1145	0.0	0.028	0.0	0.2	0.021	94.1	"
1200	0.0	0.015	0.0	0.1	0.032	94.2	"
1215	0.0	0.013	0.0	0.2	0.069	94.6	"
1230	0.0	0.010	0.0	0.1	0.015	93.4	"
1300	0.0	0.010	0.0	0.2	0.051	93.2	"
1321	0.0	0.013	0.0	0.3	0.004	93.8	"
1418	0.0	0.015	0.0	0.1	0.101	93.4	"

AECOM

Client: National Grid
Location: In front of 369 Vanderbeck Ave
Date: 9/26/11
Field Personnel: J. Ehlen

Project: Equity - RI
Project Number: 60137362-310
Weather: ~80°F, sunny, humid, light breeze
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
948	0.0	0.073	0.0	0.4	0.106	86.5	hand clearance of SB-23
1005	0.0	0.076	0.0	0.3	0.111	88.8	mobbing equipment & rig to SB-23
1023	**0.0**	**0.088**	**0.0**	**0.4**	**0.118**	**91.5**	**setting rig on SB-23**
1042	0.0	0.075	0.0	0.1	0.100	88.3	"
1057	0.0	0.057	0.0	0.0	0.076	92.5	Drilling SB-23
1110	0.0	0.042	0.0	0.0	0.102	94.2	Drilling SB-23
1125	0.0	0.068	0.0	0.0	0.065	93.6	"
1145	0.0	0.081	0.0	0.0	0.085	94.6	"
1200	0.0	0.065	0.0	0.0	0.085	96.9	"
1217	0.0	0.080	0.0	0.1	0.058	99.3	"
1235	0.0	0.081	0.0	0.0	0.114	98.5	"
1251	0.0	0.060	0.0	0.0	0.085	93.5	"
1305	0.0	0.062	0.0	0.0	0.082	98.2	" > went to get water tank, more casing, & lunch.
1345	0.0	0.068	0.0	0.0	0.051	94.4	"
1400	0.0	0.064	0.0	0.1	0.075	96.6	"
1415	0.0	0.034	0.0	0.0	0.047	95.1	"
1433	0.0	0.072	0.0	0.2	0.065	95.5	" Lots of traffic on Vanderbeck
1451	0.0	0.031	0.0	0.1	0.126	94.7	"

AECOM

Client: National Grid
Location: In front of 309 Vandervoort Ave
Date: 9/27/11
Field Personnel: J. Ehlen

Project: Equity - RI
Project Number: 60137362-310
Weather: ~80°F, mostly sunny, humid, light breeze
Ambient Noise: ~80/dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
0925	0.0	0.068	0.0	0.0	0.152	96.4	Drilling SB-23
0946	0.0	0.065	0.0	0.0	0.076	96.2	"
1000	0.0	0.057	0.0	0.0	0.096	94.6	"
1015	0.0	0.054	0.0	0.0	0.060	95.1	"
1037	0.0	0.057	0.0	0.0	0.067	95.5	"
1050	0.0	0.052	0.0	0.0	0.101	96.1	"
1105	0.0	0.043	0.0	0.0	0.053	84.7	finished drilling SB-23
1145	0.0	0.045	0.0	0.0	0.055	94.1	Well construction (rig operating)
1215	0.0	0.037	0.0	0.0	0.040	95.2	"
1254	0.0	0.049	0.0	0.0	0.050	96.6	"
1313	0.0	0.038	0.0	0.0	0.071	95.6	"
1327	0.0	0.034	0.0	0.0	0.042	93.2	"
1340	0.0	0.037	0.0	0.0	0.048	97.4	"
1355	0.0	0.050	0.0	0.0	0.060	89.9	"
1410	0.0	0.055	0.0	0.0	0.135	93.5	"
1426	0.0	0.056	0.0	0.0	0.074	96.2	"
1442	0.0	0.046	0.0	0.0	0.209	92.9	mixing grout

AECOM

Client: National Grid
Location: 254 Maspeth Ave
Date: 10/20/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~70°F, partly cloudy, breezy
Ambient Noise: ~80 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1015	0.0	0.024	0.0	0.0	0.627	82.9	setting up on SB-22
1033	0.0	0.022	0.0	0.0	0.066	82.2	Drilling SB-22
1047	0.0	0.029	0.0	0.0	0.085	91.0	"
1102	0.0	0.030	0.0	0.0	0.032	83.5	"
1119	0.0	0.018	0.0	0.0	0.024	85.5	"
1133	0.0	0.017	0.0	0.0	0.027	86.7	"
1151	0.0	0.021	0.0	0.0	0.026	87.7	"
1209	0.0	0.015	0.0	0.0	0.036	85.5	"
1235	0.0	0.020	0.0	0.0	0.080	82.4	"
1315	0.0	0.015	0.0	0.0	0.077	85.4	"
1330	0.0	0.019	0.0	0.0	0.057	93.2	"
1350	0.0	0.019	0.0	0.0	0.032	92.3	"
1416	0.0	0.016	0.0	0.0	0.034	91.2	"
1444	0.0	0.017	0.0	0.0	0.050	92.8	"
1508	0.0	0.016	0.0	0.0	0.044	91.8	"
1532	0.0	0.024	0.0	0.0	0.037	91.0	"
1603	0.0	0.012	0.0	0.2	0.067	92.5	"
1623	0.0	0.012	0.0	0.1	0.032	82.3	"
1636	0.0	0.011	0.9	0.3	0.056	90.1	"
1655	0.0	0.010	0.5	0.0	0.043	88.7	"

AECOM

Client: National Grid
Location: 254 Maspeth
Date: 10/21/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~55°F, breezy, partly cloudy
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
730	0.0	0.013	0.0	0.0	0.013	77.8	Setting up to Grout SB-22 > No drilling picking up supplies.
1030	0.1	0.312	0.0	0.0	0.035	90.9	mixing grout
1043	0.1	0.088	0.0	0.0	0.077	89.4	grouting SB-20
1059	0.1	0.042	0.0	0.0	0.040	88.5	"
1115	0.1	0.043	0.0	0.0	0.035	87.7	"
1142	0.0	0.315	0.0	0.0	0.086	85.0	"
1205	0.0	0.060	0.0	0.0	0.021	83.0	"
1218	0.0	0.044	0.0	0.0	0.049	83.5	" > No invasive work, move off of SB-22
1539	0.0	0.067	0.0	0.0	0.043	83.9	pre-clearance of SB-16
1557	0.0	0.063	0.0	0.0	0.064	79.2	"
1614	0.0	0.030	0.0	0.0	0.069	78.1	"

AECOM

Client: National Grid
Location: Equity 254 Mapath
Date: 10/22/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~55°F, clear, light breeze
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
734	0.0	0.052	0.0	0.0	0.050	82.7	setting up on SB-16C
810	0.0	0.087	0.0	0.0	0.160	90.8	Drilling SB-16C
830	0.0	0.025	0.0	0.0	0.030	90.8	"
855	0.0	0.030	0.0	0.0	0.040	92.8	"
1035	0.0	0.060	0.1	0.0	0.096	85.5	moving casing so car can move
1102	0.0	0.042	0.6	0.0	0.043	90.8	Drilling SB-16C
1135	0.0	0.058	0.8	0.0	0.030	92.8	"
1247	0.0	0.019	0.0	0.0	0.025	90.5	"
1317	0.0	0.096	0.0	0.0	0.060	92.6	"
1342	0.0	0.019	0.0	0.0	0.077	90.3	"
1400	0.0	0.012	0.0	0.0	0.016	90.6	"
1445	0.0	0.015	0.0	0.0	0.034	92.9	trying to recover lost rods
1530	0.0	0.013	0.0	0.0	0.026	92.6	Drilling SB-16C
1632	0.0	0.039	0.2	0.0	0.042	93.4	"
1753	0.0	0.020	[redacted]	0.0	0.019	84.3	Grouting SB-16C
1809	0.0	0.036	0.9/0.6	0.0	0.138	89.0	"
1826	0.0	0.038	0.0	0.0	0.031	92.1	"
1840	0.0	0.019	0.1	0.0	0.019	90.0	

AECOM

Client: National Grid
Location: 222 Maspeth Ave
Date: 10/23/11
Field Personnel: J. Ehlen

Project: Equity
Project Number: 60137362
Weather: ~60°F, cloudy, little to no wind
Ambient Noise: ~75 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
945	0.0	0.044	0.0	0.0	0.063	85.5	jackhammering SB-30
1003	0.0	0.024	0.0	0.1	0.045	80.1	"
1015	0.0	0.015	0.0	0.0	0.048	83.6	"
1040	0.0	0.015	0.0	0.0	0.018	71.3	preclearance of SB-30
1110	0.0	0.066	0.0	0.2	0.056	80.4	jackhammering SB-30
1210	0.0	0.029	0.0	0.2	0.028	86.8	Drilling SB-30
1228	0.0	0.026	0.0	0.1	0.026	86.0	"
1530	0.0	0.077	0.0	0.1	0.049	81.7	jackhammering SB-19
1553	0.0	0.154	0.0	0.5	0.147	85.00	pre-clearing SB-19

AECOM

Client: National Grid
Location: in front of truck wash on Vanderveer Ave
Date: 10/24/11
Field Personnel: J. Ehlen / S. Beaudry

Project: Equity
Project Number: 60137362
Weather: ~65°F, Sunny, light wind
Ambient Noise: _____

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
945	.060 ↔ 0.0	0.0	0.2	0.143	85.2	jack hammering SB-24
1000	0.0	.056	0.0	0.2	0.233	83.2	Heavy Traffic, hand digging
1015	0.0	0.049	0.0	0.3	0.058	85.4	↓
1030	0.0	0.043	0.0	0.2	0.091	87.0	Drillers setting Sound curtain/H.T
1045	0.0	0.064	0.0	0.2	0.067	78.9	Setting up to Sonic
1100	0.0	0.073	0.0	0.3	0.077	90.4	↓
1115	0.0	0.042	0.0	0.7	0.093	85.4	Sonic Drilling / Heavy Traffic
1130	0.0	0.065	0.0	0.2	0.059	88.3	↓
1145	0.0	0.044	0.0	0.2	0.090	89.2	↓
1200	0.0	0.043	0.1	0.3	0.144	93.9	↓
1215	0.0	0.045	0.0	0.2	0.064	87.3	↓
1230	0.0	0.064	0.0	0.2	0.038	92.4	↓
1245	0.0	0.048	0.1	0.3	0.060	82.6	Stopped work, Heavy Traffic
1300	0.0	0.049	0.1	0.2	0.047	90.5	Sonic Drilling / Heavy Traffic
1315	0.0	0.047	0.1	0.3	0.059	90.0	↓
1330	0.0	0.036	0.1	0.4	0.055	88.2	↓
1345	0.0	0.063	0.1	0.3	0.057	91.5	↓
1400	0.0	0.047	0.0	0.3	0093	88.0	↓
1415	0.0	0.043	0.1	0.2	0.045	89.5	↓
1430	0.0	0.055	0.0	0.3	0.075	88.4	↓
1445	0.0	0.073	0.0	0.2	0.055	89.2	↓
1500	0.0	0.039	0.0	0.3	0.054	80.6	Stopped Sonic Drilling for today / H.T.

Notes: majority of Noise comes from Traffic (Semis) Dust being emitted for Sonics too.
SB-24 on Vanderveer Ave, very busy intersection non-stop traffic
Contacted Pete Cox, due to Safety issues, using equipment & Traffic devices to ~~deviat~~ Keep drillers Safe. Best traffic control device would be police detail.

AECOM

Client: National Grid
Location: In Front of Truck Wash on VanderVoort Ave
Date: 10/25/11
Field Personnel: S. Beaudry / J. Ehlen

Project: Equity
Project Number: 60137362
Weather: 65-70, Sunny, light wind-med.
Ambient Noise: 85-90

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings	Comments
0945	0.4	0.036	0.8	0.1	0.063	91.4	Setting up / Heavy Traffic
1000	0.0	0.045	0.1	0.2	0.041	90.3	Drilling / Heavy Traffic
1015	0.0	0.068	0.0	0.2	0.042	91.4	
1030	0.0	0.029	0.0	0.1	0.031	92.9	
1045	0.0	0.017	0.0	0.2	0.029	92.1	
1100	0.0	0.022	0.0	0.2	0.037	91.7	
1115	0.0	0.026	0.0	0.2	0.043	90.9	
1130	0.0	0.032	0.0	0.2	0.037	90.8	
1145	0.0	0.023	0.1	0.2	0.027	89.4	
1200	0.0	0.038	0.0	0.2	0.024	89.9	
1215	0.0	0.051	0.0	0.1	0.042	83.8	Lunch / Heavy Traffic
1230							↓ Handling Drum delivery
1245	0.0	0.013	0.0	0.2	0.016	87.0	Setting well
1300	0.0	0.014	0.2	0.3	0.022	92.5	
1315	0.0	0.012	0.1	0.2	0.041	86.6	
1330	0.0	0.019	0.1	0.2	0.074	86.8	
1345	0.0	0.021	0.0	0.2	0.032	87.8	
1400	0.0	0.029	0.1	0.2	0.041	91.3	
1415	0.0	0.018	0.1	0.2	0.048	84.2	Done Setting well
1430							Cementing Well & Clean up
1445							

NOTE: See 10/24/11

AECOM

Client: National Grid
Location: 222 Maspeth Ave
Date: 10/29/11
Field Personnel: Brian

Project: Equity
Project Number: 60137362
Weather: ~35°F, heavy snow, very gusty winds.
Ambient Noise: _____

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1300	0.3	0.015	0.0	0.1	0.011	100.8	drilling
1315	0.8	0.02	2.0	0.1	0.025	102.1	
1330	1.0	0.014	0.1	0.1	0.016	103.0	
1345	2.1	0.021	0.1	0.1	0.016	100.9	
1400	1.3	0.010	0.3	0.1	0.019	103.3	
1415	1.3	0.010	0.3	0.1	0.015	102.1	
1430	1.4	0.033	0.3	0.1	0.017	102.4	
1500	1.4	0.200	0.3	0.2	0.266	101.4	
1515	1.6	0.030	0.4	0.2	0.014	100.3	
1530	1.3	0.014	0.4	0.2	0.021	102.1	
1545	1.6	0.021	0.5	0.2	0.019	104.1	
1615	1.4	0.018	0.4	0.2	0.018	103.5	
1630	1.4	0.014	0.5	0.2	0.013	102.5	
1645	0.2	0.011	0.2	0.3	0.010	90.2	stopped drilling
1700	0.1	0.004	0.1	0.2	0.015	91.2	
1715	1.4	0.007	0.1	0.2	0.014	89.4	

AECOM

Client: National Grid
Location: 222 Maspeth Ave
Date: 10/30/11
Field Personnel: Brian

Project: Equity
Project Number: 60137362
Weather: ~40°F, Sunny, breezy
Ambient Noise: ~70 dB

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
							SB-30
804	~~0.1~~ 0.0	0.012	0.6	0.1	0.030	94.7	Closing boring (risers)
819	0.2	0.012	0.0	0.0	0.015	83.6	" " (risers)
840	0.5	0.011	0.0	0.1	0.015	82.1	" " "
900	0.6	0.012	0.0	0.1	0.014	90.1	" " "
915	0.1	0.009	0.0	0.1	0.013	99.7	Moving rig
930	0.5	0.016	0.0	0.3	0.023	89.5	SETUP on SB-19
1045	0.3	0.011	0.0	0.2	0.027	95.5	Advancing on SB-19
1100	0.3	0.009	0.0	0.3	0.013	88.2	" "
1115	~~0.0~~ 0.0	0.009	0.0	0.3	0.019	91.4	
1130	0.2	0.010	0.0	0.4	0.015	90.2	
1145	0.1	0.009	0.0	0.3	0.015	86.4	
1205	0.2	0.012	0.0	0.4	0.017	84.2	
1220	0.4	0.014	0.0	0.2	0.011	84.4	
1237	~~0.0~~ 0.0	0.009	0.0	0.3	0.011	82.3	
1245	0.1	0.009	0.0	0.2	0.011	83.1	
1322	0.1	0.009	0.0	0.4	0.016	86.4	
1345	0.1	0.006	0.0	0.4	0.017	90.8	
1400	0.1	0.009	0.0	0.4	0.015	91.1	
1415	0.1	0.008	0.0	0.5	0.014	86.2	
1430	0.1	0.009	0.0	0.4	0.015	87.6	
1500	0.1	0.007	0.0	0.5	0.012	84.1	
1515	0.1	0.009	0.0	0.5	0.017	85.1	
1530	0.1	0.009	0.0	0.5	0.019	82.1	

AECOM

Client: National Grid
Location: SB-19
Date: 11-5-11
Field Personnel: Josh Millard

Project:
Project Number:
Weather: Clear, cool
Ambient Noise: 71

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
15:45	0.3	0.032	0.3	0.6	0.055	92.3	working SB-19
16:05	0.3	0.015	0.0	0.8	0.033	90.0	" "
16:20	0.3	0.014	0.0	0.6	0.031	92.5	Bringing up 55-60
16:45	0.2	0.022	0.0	0.7	0.053	71.8	Cooper Air blasting equipment
17:00	0.4	0.017	0.1/0.0	1.2	0.202	88.1	Directly down wind of RIG exhaust no loons to more
17:15	0.7	0.012	0.1/0.0	1.0	0.010	99.6	Pulling up 60-65 - second try.
17:30	0.4	0.010	0.0	1.3	0.006	90.7	
17:45	0.6	0.009	0.2	1.4	0.008	88.1	

AECOM

Client: National Grid
Location: 222 Maspeth Ave
Date: 11-6-11
Field Personnel: Josh Millard

Project: Equity
Project Number:
Weather: Clear, Cool (50s expected)
Ambient Noise:

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
7:45	2.3	0.040	0.8	1.2	0.016	90.3	
8:15	0.7	0.027	0.5	1.2	0.027	90.3	Sampling/drilling SB19
8:40	0.3	0.025	0.7	1.1	0.012	90.1	
9:05	0.2	0.022	0.5	1.0	0.009	90.5	" "
11:25	0.1	0.077	0.5	0.9	0.012	93.5	Filling SB-19 " "
11:40	0.2	0.016	0.0	0.8	0.002	93.4	
12:20	0.1	0.016	0.0	0.5	0.012	100.0	Pre-clearing MW-8A
13:20	0.1	0.021	0.0	0.3	0.004	80.	" " - switch work area
13:50	0.1	0.088	0.0	0.0	0.025	—	PID lost Down wind - low bat.
14:20	0.1	0.013	0.0	0.0	0.010	88	
15:00	0.1	0.011	0.0	0.0	0.045	80	Setting MW-8A
15:20	0.1	0.026		0.0	0.089		
16:45	0.1	0.024	-	0.0	0.014	-	Wrapping Up

==========Event #7 information (begin)==========

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[Event #7 name:]--[Event #7]2011-09-19 14:40<-->2011-09-19 17:04

[Event start time:]--2011-09-19 14:40:26[Event end time:]--2011-09-19 17:04:26

==========Event #7 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 144 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-19 11:14:002011-09-19 11:14:002011-09-19 11:14:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

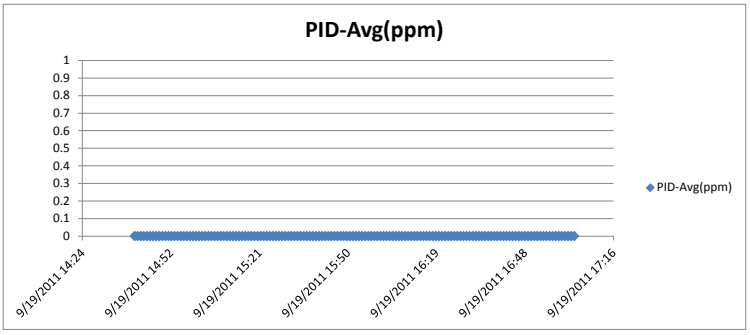
High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #7 data informations==========



LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/19/2011 14:41	0	0	0
2	9/19/2011 14:42	0	0	0
3	9/19/2011 14:43	0	0	0
4	9/19/2011 14:44	0	0	0
5	9/19/2011 14:45	0	0	0
6	9/19/2011 14:46	0	0	0
7	9/19/2011 14:47	0	0	0
8	9/19/2011 14:48	0	0	0
9	9/19/2011 14:49	0	0	0
10	9/19/2011 14:50	0	0	0
11	9/19/2011 14:51	0	0	0
12	9/19/2011 14:52	0	0	0
13	9/19/2011 14:53	0	0	0
14	9/19/2011 14:54	0	0	0
15	9/19/2011 14:55	0	0	0
16	9/19/2011 14:56	0	0	0
17	9/19/2011 14:57	0	0	0
18	9/19/2011 14:58	0	0	0
19	9/19/2011 14:59	0	0	0
20	9/19/2011 15:00	0	0	0
21	9/19/2011 15:01	0	0	0
22	9/19/2011 15:02	0	0	0
23	9/19/2011 15:03	0	0	0
24	9/19/2011 15:04	0	0	0
25	9/19/2011 15:05	0	0	0
26	9/19/2011 15:06	0	0	0
27	9/19/2011 15:07	0	0	0
28	9/19/2011 15:08	0	0	0
29	9/19/2011 15:09	0	0	0
30	9/19/2011 15:10	0	0	0
31	9/19/2011 15:11	0	0	0
32	9/19/2011 15:12	0	0	0
33	9/19/2011 15:13	0	0	0
34	9/19/2011 15:14	0	0	0
35	9/19/2011 15:15	0	0	0
36	9/19/2011 15:16	0	0	0
37	9/19/2011 15:17	0	0	0
38	9/19/2011 15:18	0	0	0
39	9/19/2011 15:19	0	0	0
40	9/19/2011 15:20	0	0	0
41	9/19/2011 15:21	0	0	0
42	9/19/2011 15:22	0	0	0
43	9/19/2011 15:23	0	0	0
44	9/19/2011 15:24	0	0	0
45	9/19/2011 15:25	0	0	0
46	9/19/2011 15:26	0	0	0
47	9/19/2011 15:27	0	0	0
48	9/19/2011 15:28	0	0	0
49	9/19/2011 15:29	0	0	0
50	9/19/2011 15:30	0	0	0
51	9/19/2011 15:31	0	0	0
52	9/19/2011 15:32	0	0	0
53	9/19/2011 15:33	0	0	0
54	9/19/2011 15:34	0	0	0
55	9/19/2011 15:35	0	0	0
56	9/19/2011 15:36	0	0	0
57	9/19/2011 15:37	0	0	0
58	9/19/2011 15:38	0	0	0
59	9/19/2011 15:39	0	0	0
60	9/19/2011 15:40	0	0	0
61	9/19/2011 15:41	0	0	0
62	9/19/2011 15:42	0	0	0
63	9/19/2011 15:43	0	0	0
64	9/19/2011 15:44	0	0	0
65	9/19/2011 15:45	0	0	0
66	9/19/2011 15:46	0	0	0
67	9/19/2011 15:47	0	0	0
68	9/19/2011 15:48	0	0	0
69	9/19/2011 15:49	0	0	0
70	9/19/2011 15:50	0	0	0
71	9/19/2011 15:51	0	0	0
72	9/19/2011 15:52	0	0	0

73	9/19/2011 15:53	0	0	0
74	9/19/2011 15:54	0	0	0
75	9/19/2011 15:55	0	0	0
76	9/19/2011 15:56	0	0	0
77	9/19/2011 15:57	0	0	0
78	9/19/2011 15:58	0	0	0
79	9/19/2011 15:59	0	0	0
80	9/19/2011 16:00	0	0	0
81	9/19/2011 16:01	0	0	0
82	9/19/2011 16:02	0	0	0
83	9/19/2011 16:03	0	0	0
84	9/19/2011 16:04	0	0	0
85	9/19/2011 16:05	0	0	0
86	9/19/2011 16:06	0	0	0
87	9/19/2011 16:07	0	0	0
88	9/19/2011 16:08	0	0	0
89	9/19/2011 16:09	0	0	0
90	9/19/2011 16:10	0	0	0
91	9/19/2011 16:11	0	0	0
92	9/19/2011 16:12	0	0	0
93	9/19/2011 16:13	0	0	0
94	9/19/2011 16:14	0	0	0
95	9/19/2011 16:15	0	0	0
96	9/19/2011 16:16	0	0	0
97	9/19/2011 16:17	0	0	0
98	9/19/2011 16:18	0	0	0
99	9/19/2011 16:19	0	0	0
100	9/19/2011 16:20	0	0	0
101	9/19/2011 16:21	0	0	0
102	9/19/2011 16:22	0	0	0
103	9/19/2011 16:23	0	0	0
104	9/19/2011 16:24	0	0	0
105	9/19/2011 16:25	0	0	0
106	9/19/2011 16:26	0	0	0
107	9/19/2011 16:27	0	0	0
108	9/19/2011 16:28	0	0	0
109	9/19/2011 16:29	0	0	0
110	9/19/2011 16:30	0	0	0
111	9/19/2011 16:31	0	0	0
112	9/19/2011 16:32	0	0	0
113	9/19/2011 16:33	0	0	0
114	9/19/2011 16:34	0	0	0
115	9/19/2011 16:35	0	0	0
116	9/19/2011 16:36	0	0	0
117	9/19/2011 16:37	0	0	0
118	9/19/2011 16:38	0	0	0
119	9/19/2011 16:39	0	0	0
120	9/19/2011 16:40	0	0	0
121	9/19/2011 16:41	0	0	0
122	9/19/2011 16:42	0	0	0
123	9/19/2011 16:43	0	0	0
124	9/19/2011 16:44	0	0	0
125	9/19/2011 16:45	0	0	0
126	9/19/2011 16:46	0	0	0
127	9/19/2011 16:47	0	0	0
128	9/19/2011 16:48	0	0	0
129	9/19/2011 16:49	0	0	0
130	9/19/2011 16:50	0	0	0
131	9/19/2011 16:51	0	0	0
132	9/19/2011 16:52	0	0	0
133	9/19/2011 16:53	0	0	0
134	9/19/2011 16:54	0	0	0
135	9/19/2011 16:55	0	0	0
136	9/19/2011 16:56	0	0	0
137	9/19/2011 16:57	0	0	0
138	9/19/2011 16:58	0	0	0
139	9/19/2011 16:59	0	0	0
140	9/19/2011 17:00	0	0	0
141	9/19/2011 17:01	0	0	0
142	9/19/2011 17:02	0	0	0
143	9/19/2011 17:03	0	0	0
144	9/19/2011 17:04	0	0	0

==========Event #7 information (end)==========

Data not logged by PID

==========Event #4 information (begin)==========

[Event #4 name:]--[Event #4]2011-09-21 07:09<-->2011-09-21 07:15

[Event start time:]--2011-09-21 07:09:12[Event end time:]--2011-09-21 07:15:12

==========Event #4 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 6 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-20 07:20:002011-09-20 07:20:002011-09-20 07:20:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

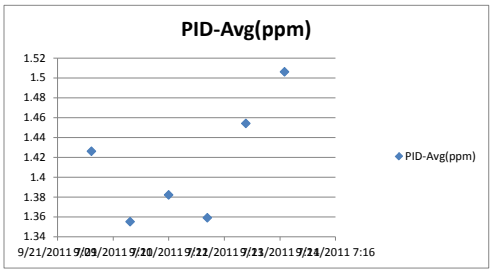
Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #4 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/21/2011 7:10	1.426	0.457	1.756
2	9/21/2011 7:11	1.355	1.332	1.384
3	9/21/2011 7:12	1.382	1.349	1.416
4	9/21/2011 7:13	1.359	1.328	1.404
5	9/21/2011 7:14	1.454	1.364	1.514
6	9/21/2011 7:15	1.506	1.478	1.562

==========Event #4 information (end)==========



==========Event #6 information (begin)==========

[Event #6 name:]--[Event #6]2011-09-21 07:28<-->2011-09-21 09:03

[Event start time:]--2011-09-21 07:28:16[Event end time:]--2011-09-21 09:03:16

==========Event #6 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 95 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-21 07:28:002011-09-21 07:28:002011-09-21 07:28:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

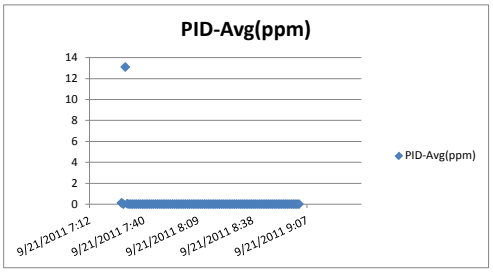
Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #6 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/21/2011 7:29	0.115	0	1.484
2	9/21/2011 7:30	0	0	0
3	9/21/2011 7:31	13.094	0	108.771
4	9/21/2011 7:32	0.031	0	0.128
5	9/21/2011 7:33	0.007	0	0.053
6	9/21/2011 7:34	0	0	0
7	9/21/2011 7:35	0	0	0
8	9/21/2011 7:36	0	0	0
9	9/21/2011 7:37	0	0	0
10	9/21/2011 7:38	0	0	0
11	9/21/2011 7:39	0	0	0
12	9/21/2011 7:40	0	0	0
13	9/21/2011 7:41	0	0	0
14	9/21/2011 7:42	0	0	0
15	9/21/2011 7:43	0	0	0
16	9/21/2011 7:44	0	0	0
17	9/21/2011 7:45	0	0	0
18	9/21/2011 7:46	0	0	0
19	9/21/2011 7:47	0	0	0
20	9/21/2011 7:48	0	0	0
21	9/21/2011 7:49	0	0	0
22	9/21/2011 7:50	0	0	0
23	9/21/2011 7:51	0	0	0
24	9/21/2011 7:52	0	0	0
25	9/21/2011 7:53	0	0	0
26	9/21/2011 7:54	0	0	0
27	9/21/2011 7:55	0	0	0
28	9/21/2011 7:56	0	0	0
29	9/21/2011 7:57	0	0	0
30	9/21/2011 7:58	0	0	0
31	9/21/2011 7:59	0	0	0
32	9/21/2011 8:00	0	0	0
33	9/21/2011 8:01	0	0	0
34	9/21/2011 8:02	0	0	0
35	9/21/2011 8:03	0	0	0
36	9/21/2011 8:04	0	0	0
37	9/21/2011 8:05	0	0	0
38	9/21/2011 8:06	0	0	0
39	9/21/2011 8:07	0	0	0
40	9/21/2011 8:08	0	0	0
41	9/21/2011 8:09	0	0	0
42	9/21/2011 8:10	0	0	0
43	9/21/2011 8:11	0	0	0
44	9/21/2011 8:12	0	0	0
45	9/21/2011 8:13	0	0	0
46	9/21/2011 8:14	0	0	0
47	9/21/2011 8:15	0	0	0
48	9/21/2011 8:16	0	0	0

49	9/21/2011 8:17	0	0	0
50	9/21/2011 8:18	0	0	0
51	9/21/2011 8:19	0	0	0
52	9/21/2011 8:20	0	0	0
53	9/21/2011 8:21	0	0	0
54	9/21/2011 8:22	0	0	0
55	9/21/2011 8:23	0	0	0
56	9/21/2011 8:24	0	0	0
57	9/21/2011 8:25	0	0	0
58	9/21/2011 8:26	0	0	0
59	9/21/2011 8:27	0	0	0
60	9/21/2011 8:28	0	0	0
61	9/21/2011 8:29	0	0	0
62	9/21/2011 8:30	0	0	0
63	9/21/2011 8:31	0	0	0
64	9/21/2011 8:32	0	0	0
65	9/21/2011 8:33	0	0	0
66	9/21/2011 8:34	0	0	0
67	9/21/2011 8:35	0	0	0
68	9/21/2011 8:36	0	0	0
69	9/21/2011 8:37	0	0	0
70	9/21/2011 8:38	0	0	0
71	9/21/2011 8:39	0	0	0
72	9/21/2011 8:40	0	0	0
73	9/21/2011 8:41	0	0	0
74	9/21/2011 8:42	0	0	0
75	9/21/2011 8:43	0	0	0
76	9/21/2011 8:44	0	0	0
77	9/21/2011 8:45	0	0	0
78	9/21/2011 8:46	0	0	0
79	9/21/2011 8:47	0	0	0
80	9/21/2011 8:48	0	0	0
81	9/21/2011 8:49	0	0	0
82	9/21/2011 8:50	0	0	0
83	9/21/2011 8:51	0	0	0
84	9/21/2011 8:52	0	0	0
85	9/21/2011 8:53	0	0	0
86	9/21/2011 8:54	0	0	0
87	9/21/2011 8:55	0	0	0
88	9/21/2011 8:56	0	0	0
89	9/21/2011 8:57	0	0	0
90	9/21/2011 8:58	0	0	0
91	9/21/2011 8:59	0	0	0
92	9/21/2011 9:00	0	0	0
93	9/21/2011 9:01	0	0	0
94	9/21/2011 9:02	0	0	0
95	9/21/2011 9:03	0	0	0

==========Event #6 information (end)==========



==========Event #7 information (begin)==========

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[Event #7 name:]--[Event #7]2011-09-21 09:04<-->2011-09-21 16:25

[Event start time:]--2011-09-21 09:04:38[Event end time:]--2011-09-21 16:25:38

==========Event #7 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 441 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

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Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-21 07:28:002011-09-21 07:28:002011-09-21 07:28:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #7 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/21/2011 9:05	0	0	0.005
2	9/21/2011 9:06	0.01	0.004	0.025
3	9/21/2011 9:07	0.017	0.002	0.028
4	9/21/2011 9:08	0.016	0.001	0.032
5	9/21/2011 9:09	0.028	0.01	0.038
6	9/21/2011 9:10	0.021	0.013	0.033
7	9/21/2011 9:11	0.02	0.015	0.027
8	9/21/2011 9:12	0.017	0.006	0.031
9	9/21/2011 9:13	0.037	0.02	0.053
10	9/21/2011 9:14	0.039	0.027	0.052
11	9/21/2011 9:15	0.031	0.026	0.038
12	9/21/2011 9:16	0.027	0.011	0.035
13	9/21/2011 9:17	0.009	0	0.025
14	9/21/2011 9:18	0.004	0	0.014
15	9/21/2011 9:19	0.001	0	0.009
16	9/21/2011 9:20	0.001	0	0.012
17	9/21/2011 9:21	0	0	0
18	9/21/2011 9:22	0	0	0
19	9/21/2011 9:23	0	0	0
20	9/21/2011 9:24	0	0	0
21	9/21/2011 9:25	0	0	0
22	9/21/2011 9:26	0	0	0
23	9/21/2011 9:27	0	0	0
24	9/21/2011 9:28	0	0	0
25	9/21/2011 9:29	0	0	0
26	9/21/2011 9:30	0	0	0
27	9/21/2011 9:31	0	0	0
28	9/21/2011 9:32	0	0	0

29	9/21/2011 9:33	0	0	0
30	9/21/2011 9:34	0	0	0
31	9/21/2011 9:35	0	0	0
32	9/21/2011 9:36	0	0	0
33	9/21/2011 9:37	0	0	0
34	9/21/2011 9:38	0	0	0
35	9/21/2011 9:39	0	0	0
36	9/21/2011 9:40	0	0	0
37	9/21/2011 9:41	0	0	0
38	9/21/2011 9:42	0	0	0
39	9/21/2011 9:43	0	0	0
40	9/21/2011 9:44	0	0	0
41	9/21/2011 9:45	0	0	0
42	9/21/2011 9:46	0	0	0
43	9/21/2011 9:47	0	0	0
44	9/21/2011 9:48	0	0	0
45	9/21/2011 9:49	0	0	0
46	9/21/2011 9:50	0	0	0
47	9/21/2011 9:51	0	0	0
48	9/21/2011 9:52	0	0	0
49	9/21/2011 9:53	0	0	0
50	9/21/2011 9:54	0	0	0
51	9/21/2011 9:55	0	0	0
52	9/21/2011 9:56	0	0	0
53	9/21/2011 9:57	0	0	0
54	9/21/2011 9:58	0	0	0
55	9/21/2011 9:59	0	0	0
56	9/21/2011 10:00	0	0	0
57	9/21/2011 10:01	0	0	0
58	9/21/2011 10:02	0	0	0
59	9/21/2011 10:03	0.126	0	0.418
60	9/21/2011 10:04	0.088	0.047	0.143
61	9/21/2011 10:05	0.053	0.018	0.077
62	9/21/2011 10:06	0.043	0.004	0.072
63	9/21/2011 10:07	0.005	0	0.034
64	9/21/2011 10:08	0	0	0
65	9/21/2011 10:09	0	0	0
66	9/21/2011 10:10	0	0	0
67	9/21/2011 10:11	0	0	0
68	9/21/2011 10:12	0	0	0
69	9/21/2011 10:13	0.137	0	0.342
70	9/21/2011 10:14	0.261	0.176	0.586
71	9/21/2011 10:15	0.426	0.283	0.617
72	9/21/2011 10:16	0.177	0.06	0.329
73	9/21/2011 10:17	0.057	0.005	0.089
74	9/21/2011 10:18	0.009	0	0.083
75	9/21/2011 10:19	0	0	0
76	9/21/2011 10:20	0	0	0
77	9/21/2011 10:21	0	0	0.001
78	9/21/2011 10:22	0	0	0.011
79	9/21/2011 10:23	0.016	0	0.122
80	9/21/2011 10:24	0.108	0.06	0.158
81	9/21/2011 10:25	0.088	0.024	0.138
82	9/21/2011 10:26	0.017	0	0.043
83	9/21/2011 10:27	0.009	0	0.025
84	9/21/2011 10:28	0	0	0
85	9/21/2011 10:29	0	0	0.014
86	9/21/2011 10:30	0.106	0	0.196
87	9/21/2011 10:31	0.102	0.073	0.153
88	9/21/2011 10:32	0.13	0.106	0.175
89	9/21/2011 10:33	0.009	0	0.095
90	9/21/2011 10:34	0	0	0
91	9/21/2011 10:35	0	0	0
92	9/21/2011 10:36	0	0	0
93	9/21/2011 10:37	0	0	0
94	9/21/2011 10:38	0	0	0
95	9/21/2011 10:39	0	0	0
96	9/21/2011 10:40	0	0	0
97	9/21/2011 10:41	0	0	0
98	9/21/2011 10:42	0	0	0
99	9/21/2011 10:43	0	0	0
100	9/21/2011 10:44	0	0	0
101	9/21/2011 10:45	0	0	0
102	9/21/2011 10:46	0	0	0
103	9/21/2011 10:47	0	0	0
104	9/21/2011 10:48	0	0	0
105	9/21/2011 10:49	0	0	0
106	9/21/2011 10:50	0	0	0
107	9/21/2011 10:51	0	0	0
108	9/21/2011 10:52	0	0	0
109	9/21/2011 10:53	0	0	0
110	9/21/2011 10:54	0	0	0
111	9/21/2011 10:55	0	0	0
112	9/21/2011 10:56	0	0	0
113	9/21/2011 10:57	0	0	0
114	9/21/2011 10:58	0	0	0
115	9/21/2011 10:59	0	0	0
116	9/21/2011 11:00	0	0	0
117	9/21/2011 11:01	0	0	0
118	9/21/2011 11:02	0	0	0
119	9/21/2011 11:03	0	0	0
120	9/21/2011 11:04	0	0	0
121	9/21/2011 11:05	0.04	0	0.239
122	9/21/2011 11:06	0.145	0.077	0.266
123	9/21/2011 11:07	0.089	0.066	0.127
124	9/21/2011 11:08	0.046	0.03	0.069
125	9/21/2011 11:09	0.009	0	0.034
126	9/21/2011 11:10	0	0	0
127	9/21/2011 11:11	0	0	0

128	9/21/2011 11:12	0	0	0
129	9/21/2011 11:13	0	0	0
130	9/21/2011 11:14	0	0	0
131	9/21/2011 11:15	0	0	0
132	9/21/2011 11:16	0	0	0
133	9/21/2011 11:17	0	0	0
134	9/21/2011 11:18	0	0	0
135	9/21/2011 11:19	0	0	0
136	9/21/2011 11:20	0	0	0
137	9/21/2011 11:21	0	0	0
138	9/21/2011 11:22	0	0	0
139	9/21/2011 11:23	0	0	0
140	9/21/2011 11:24	0	0	0
141	9/21/2011 11:25	0	0	0
142	9/21/2011 11:26	0	0	0
143	9/21/2011 11:27	0.02	0	0.25
144	9/21/2011 11:28	0.11	0.056	0.227
145	9/21/2011 11:29	0.032	0	0.056
146	9/21/2011 11:30	0	0	0.007
147	9/21/2011 11:31	0	0	0
148	9/21/2011 11:32	0	0	0
149	9/21/2011 11:33	0	0	0
150	9/21/2011 11:34	0	0	0
151	9/21/2011 11:35	0	0	0
152	9/21/2011 11:36	0	0	0
153	9/21/2011 11:37	0	0	0
154	9/21/2011 11:38	0	0	0
155	9/21/2011 11:39	0	0	0
156	9/21/2011 11:40	0	0	0
157	9/21/2011 11:41	0	0	0
158	9/21/2011 11:42	0	0	0
159	9/21/2011 11:43	0	0	0
160	9/21/2011 11:44	0	0	0
161	9/21/2011 11:45	0	0	0
162	9/21/2011 11:46	0	0	0
163	9/21/2011 11:47	0	0	0
164	9/21/2011 11:48	0	0	0
165	9/21/2011 11:49	0	0	0
166	9/21/2011 11:50	0	0	0
167	9/21/2011 11:51	0	0	0
168	9/21/2011 11:52	0	0	0
169	9/21/2011 11:53	0	0	0
170	9/21/2011 11:54	0	0	0
171	9/21/2011 11:55	0	0	0
172	9/21/2011 11:56	0	0	0
173	9/21/2011 11:57	0	0	0
174	9/21/2011 11:58	0	0	0
175	9/21/2011 11:59	0	0	0
176	9/21/2011 12:00	0	0	0
177	9/21/2011 12:01	0	0	0
178	9/21/2011 12:02	0	0	0
179	9/21/2011 12:03	0	0	0
180	9/21/2011 12:04	0	0	0
181	9/21/2011 12:05	0	0	0
182	9/21/2011 12:06	0	0	0
183	9/21/2011 12:07	0	0	0
184	9/21/2011 12:08	0	0	0
185	9/21/2011 12:09	0	0	0
186	9/21/2011 12:10	0	0	0
187	9/21/2011 12:11	0	0	0
188	9/21/2011 12:12	0	0	0
189	9/21/2011 12:13	0	0	0
190	9/21/2011 12:14	0	0	0
191	9/21/2011 12:15	0	0	0
192	9/21/2011 12:16	0.006	0	0.208
193	9/21/2011 12:17	0.253	0.116	0.346
194	9/21/2011 12:18	0.276	0.11	0.357
195	9/21/2011 12:19	0.096	0	0.16
196	9/21/2011 12:20	0.004	0	0.033
197	9/21/2011 12:21	0	0	0
198	9/21/2011 12:22	0	0	0
199	9/21/2011 12:23	0	0	0
200	9/21/2011 12:24	0	0	0
201	9/21/2011 12:25	0.022	0	0.084
202	9/21/2011 12:26	0.004	0	0.025
203	9/21/2011 12:27	0	0	0
204	9/21/2011 12:28	0	0	0
205	9/21/2011 12:29	0	0	0
206	9/21/2011 12:30	0	0	0
207	9/21/2011 12:31	0	0	0
208	9/21/2011 12:32	0	0	0
209	9/21/2011 12:33	0	0	0
210	9/21/2011 12:34	0	0	0
211	9/21/2011 12:35	0	0	0
212	9/21/2011 12:36	0	0	0
213	9/21/2011 12:37	0	0	0
214	9/21/2011 12:38	0	0	0
215	9/21/2011 12:39	0	0	0
216	9/21/2011 12:40	0	0	0
217	9/21/2011 12:41	0	0	0
218	9/21/2011 12:42	0	0	0
219	9/21/2011 12:43	0	0	0
220	9/21/2011 12:44	0	0	0
221	9/21/2011 12:45	0	0	0
222	9/21/2011 12:46	0	0	0
223	9/21/2011 12:47	0	0	0
224	9/21/2011 12:48	0	0	0
225	9/21/2011 12:49	0	0	0
226	9/21/2011 12:50	0	0	0

227	9/21/2011 12:51	0	0	0
228	9/21/2011 12:52	0	0	0
229	9/21/2011 12:53	0	0	0
230	9/21/2011 12:54	0	0	0
231	9/21/2011 12:55	0	0	0
232	9/21/2011 12:56	0	0	0
233	9/21/2011 12:57	0	0	0
234	9/21/2011 12:58	0	0	0
235	9/21/2011 12:59	0	0	0
236	9/21/2011 13:00	0	0	0
237	9/21/2011 13:01	0	0	0
238	9/21/2011 13:02	0	0	0
239	9/21/2011 13:03	0	0	0
240	9/21/2011 13:04	0	0	0
241	9/21/2011 13:05	0	0	0
242	9/21/2011 13:06	0	0	0
243	9/21/2011 13:07	0	0	0
244	9/21/2011 13:08	0	0	0
245	9/21/2011 13:09	0	0	0
246	9/21/2011 13:10	0	0	0
247	9/21/2011 13:11	0	0	0.005
248	9/21/2011 13:12	0	0	0
249	9/21/2011 13:13	0	0	0
250	9/21/2011 13:14	0	0	0
251	9/21/2011 13:15	0	0	0
252	9/21/2011 13:16	0	0	0
253	9/21/2011 13:17	0	0	0
254	9/21/2011 13:18	0	0	0
255	9/21/2011 13:19	0	0	0
256	9/21/2011 13:20	0	0	0
257	9/21/2011 13:21	0	0	0
258	9/21/2011 13:22	0	0	0
259	9/21/2011 13:23	0	0	0
260	9/21/2011 13:24	0	0	0
261	9/21/2011 13:25	0	0	0
262	9/21/2011 13:26	0	0	0
263	9/21/2011 13:27	0	0	0
264	9/21/2011 13:28	0	0	0
265	9/21/2011 13:29	0	0	0
266	9/21/2011 13:30	0	0	0
267	9/21/2011 13:31	0	0	0
268	9/21/2011 13:32	0	0	0
269	9/21/2011 13:33	0	0	0
270	9/21/2011 13:34	0	0	0
271	9/21/2011 13:35	0	0	0
272	9/21/2011 13:36	0	0	0
273	9/21/2011 13:37	0	0	0
274	9/21/2011 13:38	0	0	0
275	9/21/2011 13:39	0	0	0
276	9/21/2011 13:40	0	0	0
277	9/21/2011 13:41	0	0	0
278	9/21/2011 13:42	0	0	0
279	9/21/2011 13:43	0	0	0
280	9/21/2011 13:44	0	0	0
281	9/21/2011 13:45	0	0	0
282	9/21/2011 13:46	0	0	0
283	9/21/2011 13:47	0	0	0
284	9/21/2011 13:48	0	0	0
285	9/21/2011 13:49	0	0	0
286	9/21/2011 13:50	0	0	0
287	9/21/2011 13:51	0	0	0
288	9/21/2011 13:52	0	0	0
289	9/21/2011 13:53	0	0	0
290	9/21/2011 13:54	0	0	0
291	9/21/2011 13:55	0	0	0
292	9/21/2011 13:56	0	0	0
293	9/21/2011 13:57	0	0	0
294	9/21/2011 13:58	0	0	0
295	9/21/2011 13:59	0	0	0
296	9/21/2011 14:00	0	0	0
297	9/21/2011 14:01	0	0	0
298	9/21/2011 14:02	0	0	0
299	9/21/2011 14:03	0	0	0
300	9/21/2011 14:04	0	0	0
301	9/21/2011 14:05	0	0	0
302	9/21/2011 14:06	0	0	0
303	9/21/2011 14:07	0	0	0
304	9/21/2011 14:08	0	0	0
305	9/21/2011 14:09	0	0	0
306	9/21/2011 14:10	0	0	0
307	9/21/2011 14:11	0	0	0
308	9/21/2011 14:12	0	0	0
309	9/21/2011 14:13	0	0	0
310	9/21/2011 14:14	0	0	0
311	9/21/2011 14:15	0	0	0
312	9/21/2011 14:16	0	0	0
313	9/21/2011 14:17	0	0	0
314	9/21/2011 14:18	0	0	0
315	9/21/2011 14:19	0	0	0
316	9/21/2011 14:20	0	0	0
317	9/21/2011 14:21	0	0	0
318	9/21/2011 14:22	0	0	0
319	9/21/2011 14:23	0	0	0
320	9/21/2011 14:24	0	0	0
321	9/21/2011 14:25	0	0	0
322	9/21/2011 14:26	0	0	0
323	9/21/2011 14:27	0	0	0
324	9/21/2011 14:28	0	0	0
325	9/21/2011 14:29	0	0	0

326	9/21/2011 14:30	0.001	0	0.043
327	9/21/2011 14:31	0.026	0	0.137
328	9/21/2011 14:32	0	0	0
329	9/21/2011 14:33	0	0	0
330	9/21/2011 14:34	0	0	0
331	9/21/2011 14:35	0	0	0
332	9/21/2011 14:36	0	0	0
333	9/21/2011 14:37	0	0	0
334	9/21/2011 14:38	0	0	0
335	9/21/2011 14:39	0	0	0
336	9/21/2011 14:40	0	0	0
337	9/21/2011 14:41	0	0	0
338	9/21/2011 14:42	0	0	0
339	9/21/2011 14:43	0	0	0
340	9/21/2011 14:44	0	0	0
341	9/21/2011 14:45	0	0	0
342	9/21/2011 14:46	0	0	0
343	9/21/2011 14:47	0	0	0
344	9/21/2011 14:48	0	0	0
345	9/21/2011 14:49	0	0	0
346	9/21/2011 14:50	0	0	0
347	9/21/2011 14:51	0	0	0
348	9/21/2011 14:52	0	0	0
349	9/21/2011 14:53	0	0	0
350	9/21/2011 14:54	0	0	0
351	9/21/2011 14:55	0	0	0
352	9/21/2011 14:56	0	0	0
353	9/21/2011 14:57	0	0	0
354	9/21/2011 14:58	0	0	0
355	9/21/2011 14:59	0	0	0
356	9/21/2011 15:00	0	0	0
357	9/21/2011 15:01	0	0	0
358	9/21/2011 15:02	0	0	0
359	9/21/2011 15:03	0	0	0
360	9/21/2011 15:04	0	0	0
361	9/21/2011 15:05	0	0	0
362	9/21/2011 15:06	0	0	0
363	9/21/2011 15:07	0	0	0
364	9/21/2011 15:08	0	0	0
365	9/21/2011 15:09	0	0	0
366	9/21/2011 15:10	0	0	0
367	9/21/2011 15:11	0	0	0
368	9/21/2011 15:12	0	0	0
369	9/21/2011 15:13	0	0	0
370	9/21/2011 15:14	0	0	0
371	9/21/2011 15:15	0	0	0
372	9/21/2011 15:16	0	0	0
373	9/21/2011 15:17	0	0	0
374	9/21/2011 15:18	0	0	0
375	9/21/2011 15:19	0	0	0
376	9/21/2011 15:20	0	0	0
377	9/21/2011 15:21	0	0	0
378	9/21/2011 15:22	0	0	0
379	9/21/2011 15:23	0	0	0
380	9/21/2011 15:24	0	0	0
381	9/21/2011 15:25	0	0	0
382	9/21/2011 15:26	0	0	0
383	9/21/2011 15:27	0	0	0
384	9/21/2011 15:28	0	0	0
385	9/21/2011 15:29	0	0	0
386	9/21/2011 15:30	0	0	0
387	9/21/2011 15:31	0	0	0.001
388	9/21/2011 15:32	0	0	0
389	9/21/2011 15:33	0	0	0
390	9/21/2011 15:34	0	0	0
391	9/21/2011 15:35	0	0	0
392	9/21/2011 15:36	0	0	0
393	9/21/2011 15:37	0	0	0
394	9/21/2011 15:38	0	0	0
395	9/21/2011 15:39	0	0	0
396	9/21/2011 15:40	0	0	0
397	9/21/2011 15:41	0	0	0
398	9/21/2011 15:42	0	0	0
399	9/21/2011 15:43	0	0	0
400	9/21/2011 15:44	0	0	0
401	9/21/2011 15:45	0	0	0
402	9/21/2011 15:46	0	0	0
403	9/21/2011 15:47	0	0	0
404	9/21/2011 15:48	0	0	0
405	9/21/2011 15:49	0	0	0
406	9/21/2011 15:50	0	0	0
407	9/21/2011 15:51	0	0	0
408	9/21/2011 15:52	0	0	0
409	9/21/2011 15:53	0	0	0
410	9/21/2011 15:54	0	0	0
411	9/21/2011 15:55	0	0	0
412	9/21/2011 15:56	0	0	0
413	9/21/2011 15:57	0	0	0
414	9/21/2011 15:58	0	0	0
415	9/21/2011 15:59	0	0	0
416	9/21/2011 16:00	0	0	0
417	9/21/2011 16:01	0	0	0
418	9/21/2011 16:02	0	0	0
419	9/21/2011 16:03	0	0	0
420	9/21/2011 16:04	0	0	0
421	9/21/2011 16:05	0	0	0
422	9/21/2011 16:06	0	0	0
423	9/21/2011 16:07	0	0	0
424	9/21/2011 16:08	0	0	0

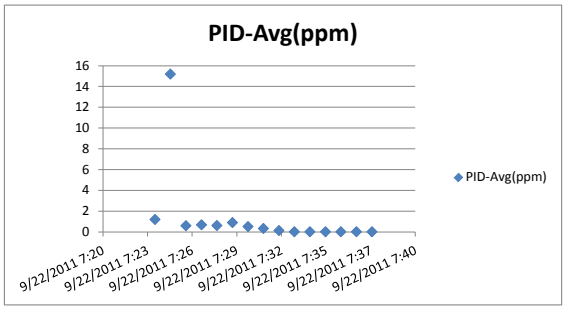
425	9/21/2011 16:09	0	0	0
426	9/21/2011 16:10	0	0	0
427	9/21/2011 16:11	0	0	0
428	9/21/2011 16:12	0	0	0
429	9/21/2011 16:13	0	0	0
430	9/21/2011 16:14	0	0	0
431	9/21/2011 16:15	0	0	0
432	9/21/2011 16:16	0	0	0
433	9/21/2011 16:17	0	0	0
434	9/21/2011 16:18	0	0	0
435	9/21/2011 16:19	0	0	0
436	9/21/2011 16:20	0	0	0
437	9/21/2011 16:21	0	0	0
438	9/21/2011 16:22	0	0	0
439	9/21/2011 16:23	0	0	0
440	9/21/2011 16:24	0	0	0
441	9/21/2011 16:25	0	0	0

==========Event #7 information (end)==========

=========Event #10 information (begin)=========
==========
[Event #10 name:]--[Event #10]2011-09-22 07:23<-->2011-09-22 07:38
[Event start time:]--2011-09-22 07:23:49[Event end time:]--2011-09-22 07:38:49
==========Event #10 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 15 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-09-22 07:23:002011-09-22 07:23:002011-09-22 07:23:00
Drift Value : --- --- ---
Low Alarm Levels : 50.000 50.000 50.000
High Alarm Levels : 100.000 100.000 100.000
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #10 data informations==========

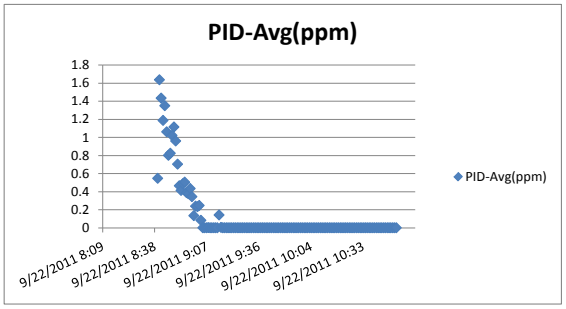
LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/22/2011 7:24	1.185	0.843	1.897
2	9/22/2011 7:25	15.185	0.559	118.959
3	9/22/2011 7:26	0.584	0.326	0.755
4	9/22/2011 7:27	0.667	0.492	1.146
5	9/22/2011 7:28	0.611	0.381	1.037
6	9/22/2011 7:29	0.885	0.6	1.29
7	9/22/2011 7:30	0.513	0.386	0.639
8	9/22/2011 7:31	0.314	0.229	0.399
9	9/22/2011 7:32	0.122	0.062	0.23
10	9/22/2011 7:33	0.007	0	0.056
11	9/22/2011 7:34	0	0	0
12	9/22/2011 7:35	0	0	0
13	9/22/2011 7:36	0.003	0	0.124
14	9/22/2011 7:37	0.013	0	0.178
15	9/22/2011 7:38	0	0	0

==========Event #10 information (end)==========



=========Event #11 information (begin)=========
==========
[Event #11 name:]--[Event #11]2011-09-22 08:39<-->2011-09-22 10:52
[Event start time:]--2011-09-22 08:39:00[Event end time:]--2011-09-22 10:52:00
==========Event #11 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 133 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-09-22 07:23:002011-09-22 07:23:002011-09-22 07:23:00
Drift Value : --- --- ---
Low Alarm Levels : 50.000 50.000 50.000
High Alarm Levels : 100.000 100.000 100.000
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #11 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/22/2011 8:40	0.548	0.084	1.087
2	9/22/2011 8:41	1.636	1.165	1.94
3	9/22/2011 8:42	1.434	1.069	1.607
4	9/22/2011 8:43	1.188	1.135	1.254
5	9/22/2011 8:44	1.35	1.225	1.52
6	9/22/2011 8:45	1.061	0.893	1.262
7	9/22/2011 8:46	0.802	0.638	0.984
8	9/22/2011 8:47	0.824	0.787	0.943
9	9/22/2011 8:48	1.021	0.8	1.403
10	9/22/2011 8:49	1.115	0.989	1.313
11	9/22/2011 8:50	0.96	0.737	1.122
12	9/22/2011 8:51	0.704	0.557	0.861
13	9/22/2011 8:52	0.466	0.333	0.592
14	9/22/2011 8:53	0.413	0.262	0.552
15	9/22/2011 8:54	0.488	0.317	0.777
16	9/22/2011 8:55	0.506	0.425	0.751
17	9/22/2011 8:56	0.389	0.32	0.458
18	9/22/2011 8:57	0.377	0.272	0.631
19	9/22/2011 8:58	0.434	0.365	0.489
20	9/22/2011 8:59	0.345	0.265	0.452
21	9/22/2011 9:00	0.134	0.05	0.285
22	9/22/2011 9:01	0.239	0.029	0.534
23	9/22/2011 9:02	0.233	0.131	0.313
24	9/22/2011 9:03	0.248	0.133	0.387
25	9/22/2011 9:04	0.083	0	0.23
26	9/22/2011 9:05	0.001	0	0.022
27	9/22/2011 9:06	0	0	0.006



28	9/22/2011 9:07	0	0	0
29	9/22/2011 9:08	0.002	0	0.042
30	9/22/2011 9:09	0	0	0
31	9/22/2011 9:10	0	0	0
32	9/22/2011 9:11	0	0	0
33	9/22/2011 9:12	0	0	0
34	9/22/2011 9:13	0	0	0.02
35	9/22/2011 9:14	0.142	0	0.332
36	9/22/2011 9:15	0.004	0	0.072
37	9/22/2011 9:16	0	0	0
38	9/22/2011 9:17	0	0	0
39	9/22/2011 9:18	0	0	0
40	9/22/2011 9:19	0	0	0
41	9/22/2011 9:20	0	0	0
42	9/22/2011 9:21	0	0	0
43	9/22/2011 9:22	0	0	0
44	9/22/2011 9:23	0	0	0
45	9/22/2011 9:24	0	0	0
46	9/22/2011 9:25	0	0	0
47	9/22/2011 9:26	0	0	0
48	9/22/2011 9:27	0	0	0
49	9/22/2011 9:28	0	0	0
50	9/22/2011 9:29	0	0	0
51	9/22/2011 9:30	0	0	0
52	9/22/2011 9:31	0	0	0
53	9/22/2011 9:32	0	0	0
54	9/22/2011 9:33	0	0	0
55	9/22/2011 9:34	0	0	0
56	9/22/2011 9:35	0	0	0
57	9/22/2011 9:36	0	0	0
58	9/22/2011 9:37	0	0	0
59	9/22/2011 9:38	0	0	0.001
60	9/22/2011 9:39	0	0	0
61	9/22/2011 9:40	0	0	0
62	9/22/2011 9:41	0	0	0
63	9/22/2011 9:42	0	0	0
64	9/22/2011 9:43	0	0	0
65	9/22/2011 9:44	0	0	0
66	9/22/2011 9:45	0	0	0
67	9/22/2011 9:46	0	0	0
68	9/22/2011 9:47	0	0	0
69	9/22/2011 9:48	0	0	0
70	9/22/2011 9:49	0	0	0
71	9/22/2011 9:50	0	0	0
72	9/22/2011 9:51	0	0	0
73	9/22/2011 9:52	0	0	0
74	9/22/2011 9:53	0	0	0
75	9/22/2011 9:54	0	0	0
76	9/22/2011 9:55	0	0	0
77	9/22/2011 9:56	0	0	0
78	9/22/2011 9:57	0	0	0
79	9/22/2011 9:58	0	0	0
80	9/22/2011 9:59	0	0	0
81	9/22/2011 10:00	0	0	0
82	9/22/2011 10:01	0	0	0
83	9/22/2011 10:02	0	0	0
84	9/22/2011 10:03	0	0	0
85	9/22/2011 10:04	0	0	0
86	9/22/2011 10:05	0	0	0
87	9/22/2011 10:06	0	0	0
88	9/22/2011 10:07	0	0	0
89	9/22/2011 10:08	0	0	0
90	9/22/2011 10:09	0	0	0
91	9/22/2011 10:10	0	0	0
92	9/22/2011 10:11	0	0	0
93	9/22/2011 10:12	0	0	0
94	9/22/2011 10:13	0	0	0
95	9/22/2011 10:14	0	0	0
96	9/22/2011 10:15	0	0	0
97	9/22/2011 10:16	0	0	0
98	9/22/2011 10:17	0	0	0
99	9/22/2011 10:18	0	0	0
100	9/22/2011 10:19	0	0	0
101	9/22/2011 10:20	0	0	0
102	9/22/2011 10:21	0	0	0
103	9/22/2011 10:22	0	0	0
104	9/22/2011 10:23	0	0	0
105	9/22/2011 10:24	0	0	0
106	9/22/2011 10:25	0	0	0
107	9/22/2011 10:26	0	0	0
108	9/22/2011 10:27	0	0	0
109	9/22/2011 10:28	0	0	0
110	9/22/2011 10:29	0	0	0
111	9/22/2011 10:30	0	0	0
112	9/22/2011 10:31	0	0	0
113	9/22/2011 10:32	0	0	0
114	9/22/2011 10:33	0	0	0

115	9/22/2011 10:34	0	0	0
116	9/22/2011 10:35	0	0	0
117	9/22/2011 10:36	0	0	0
118	9/22/2011 10:37	0	0	0
119	9/22/2011 10:38	0	0	0
120	9/22/2011 10:39	0	0	0
121	9/22/2011 10:40	0	0	0
122	9/22/2011 10:41	0	0	0
123	9/22/2011 10:42	0	0	0
124	9/22/2011 10:43	0	0	0
125	9/22/2011 10:44	0	0	0
126	9/22/2011 10:45	0	0	0
127	9/22/2011 10:46	0	0	0
128	9/22/2011 10:47	0	0	0
129	9/22/2011 10:48	0	0	0
130	9/22/2011 10:49	0	0	0
131	9/22/2011 10:50	0	0	0
132	9/22/2011 10:51	0	0	0
133	9/22/2011 10:52	0	0	0

==========Event #11 information (end)==========

=========Event #12 information (begin)=========

==========

[Event #12 name:]--[Event #12]2011-09-22 10:53<-->2011-09-22 17:17

[Event start time:]--2011-09-22 10:53:39[Event end time:]--2011-09-22 17:17:39

==========Event #12 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 384 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-22 07:23:002011-09-22 07:23:002011-09-22 07:23:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

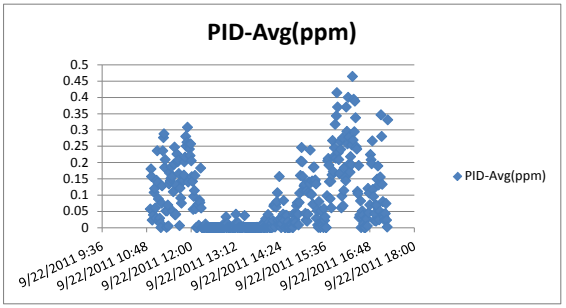
Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #12 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/22/2011 10:54	0.057	0.001	0.188
2	9/22/2011 10:55	0.18	0.081	0.367
3	9/22/2011 10:56	0.157	0.02	0.365
4	9/22/2011 10:57	0.023	0	0.068
5	9/22/2011 10:58	0.051	0.01	0.093
6	9/22/2011 10:59	0.039	0	0.086
7	9/22/2011 11:00	0.108	0.026	0.167
8	9/22/2011 11:01	0.12	0	0.223
9	9/22/2011 11:02	0.06	0.005	0.098
10	9/22/2011 11:03	0.029	0	0.187
11	9/22/2011 11:04	0.145	0.062	0.23
12	9/22/2011 11:05	0.236	0.165	0.294
13	9/22/2011 11:06	0.138	0.093	0.165
14	9/22/2011 11:07	0.088	0	0.148
15	9/22/2011 11:08	0.021	0	0.085
16	9/22/2011 11:09	0.029	0	0.084
17	9/22/2011 11:10	0.013	0	0.059
18	9/22/2011 11:11	0	0	0
19	9/22/2011 11:12	0.075	0	0.132
20	9/22/2011 11:13	0.128	0.089	0.271
21	9/22/2011 11:14	0.236	0.149	0.303
22	9/22/2011 11:15	0.276	0.197	0.402
23	9/22/2011 11:16	0.288	0.165	0.347
24	9/22/2011 11:17	0.185	0.085	0.329
25	9/22/2011 11:18	0.209	0.105	0.389
26	9/22/2011 11:19	0.051	0.004	0.082
27	9/22/2011 11:20	0.001	0	0.015
28	9/22/2011 11:21	0.051	0.004	0.087
29	9/22/2011 11:22	0.069	0	0.15
30	9/22/2011 11:23	0.005	0	0.029
31	9/22/2011 11:24	0.134	0	0.225
32	9/22/2011 11:25	0.168	0.129	0.185
33	9/22/2011 11:26	0.143	0.104	0.192
34	9/22/2011 11:27	0.151	0.09	0.188
35	9/22/2011 11:28	0.186	0.145	0.24
36	9/22/2011 11:29	0.157	0.06	0.271
37	9/22/2011 11:30	0.05	0.028	0.127
38	9/22/2011 11:31	0.11	0.05	0.212
39	9/22/2011 11:32	0.195	0.157	0.246
40	9/22/2011 11:33	0.247	0.168	0.331
41	9/22/2011 11:34	0.039	0	0.15
42	9/22/2011 11:35	0.041	0	0.083
43	9/22/2011 11:36	0.13	0.026	0.19
44	9/22/2011 11:37	0.226	0.147	0.336



45	9/22/2011 11:38	0.202	0.113	0.333
46	9/22/2011 11:39	0.207	0.09	0.356
47	9/22/2011 11:40	0.166	0.044	0.288
48	9/22/2011 11:41	0.006	0	0.037
49	9/22/2011 11:42	0.121	0.02	0.238
50	9/22/2011 11:43	0.091	0	0.185
51	9/22/2011 11:44	0.075	0	0.138
52	9/22/2011 11:45	0.145	0	0.216
53	9/22/2011 11:46	0.144	0.055	0.197
54	9/22/2011 11:47	0.144	0.041	0.301
55	9/22/2011 11:48	0.161	0.096	0.202
56	9/22/2011 11:49	0.202	0.155	0.29
57	9/22/2011 11:50	0.216	0.1	0.446
58	9/22/2011 11:51	0.28	0.222	0.327
59	9/22/2011 11:52	0.25	0.083	0.326
60	9/22/2011 11:53	0.262	0.201	0.585
61	9/22/2011 11:54	0.308	0.135	0.476
62	9/22/2011 11:55	0.14	0.052	0.284
63	9/22/2011 11:56	0.257	0.173	0.329
64	9/22/2011 11:57	0.241	0.198	0.292
65	9/22/2011 11:58	0.221	0.179	0.301
66	9/22/2011 11:59	0.257	0.202	0.286
67	9/22/2011 12:00	0.205	0.151	0.25
68	9/22/2011 12:01	0.156	0.111	0.203
69	9/22/2011 12:02	0.142	0.089	0.171
70	9/22/2011 12:03	0.056	0	0.114
71	9/22/2011 12:04	0.096	0.037	0.132
72	9/22/2011 12:05	0.114	0.092	0.148
73	9/22/2011 12:06	0.16	0.092	0.298
74	9/22/2011 12:07	0.058	0	0.149
75	9/22/2011 12:08	0	0	0
76	9/22/2011 12:09	0	0	0
77	9/22/2011 12:10	0	0	0
78	9/22/2011 12:11	0.072	0	0.172
79	9/22/2011 12:12	0.007	0	0.058
80	9/22/2011 12:13	0.084	0.045	0.115
81	9/22/2011 12:14	0.077	0.032	0.127
82	9/22/2011 12:15	0.183	0.099	0.327
83	9/22/2011 12:16	0.06	0	0.166
84	9/22/2011 12:17	0	0	0
85	9/22/2011 12:18	0	0	0
86	9/22/2011 12:19	0	0	0
87	9/22/2011 12:20	0.001	0	0.025
88	9/22/2011 12:21	0	0	0
89	9/22/2011 12:22	0	0	0
90	9/22/2011 12:23	0.011	0	0.084
91	9/22/2011 12:24	0	0	0
92	9/22/2011 12:25	0	0	0
93	9/22/2011 12:26	0	0	0
94	9/22/2011 12:27	0.001	0	0.022
95	9/22/2011 12:28	0	0	0
96	9/22/2011 12:29	0	0	0
97	9/22/2011 12:30	0	0	0
98	9/22/2011 12:31	0	0	0
99	9/22/2011 12:32	0	0	0
100	9/22/2011 12:33	0	0	0
101	9/22/2011 12:34	0	0	0
102	9/22/2011 12:35	0	0	0
103	9/22/2011 12:36	0	0	0
104	9/22/2011 12:37	0	0	0
105	9/22/2011 12:38	0	0	0
106	9/22/2011 12:39	0	0	0
107	9/22/2011 12:40	0	0	0
108	9/22/2011 12:41	0	0	0
109	9/22/2011 12:42	0	0	0
110	9/22/2011 12:43	0	0	0
111	9/22/2011 12:44	0	0	0
112	9/22/2011 12:45	0	0	0
113	9/22/2011 12:46	0	0	0
114	9/22/2011 12:47	0	0	0
115	9/22/2011 12:48	0	0	0
116	9/22/2011 12:49	0	0	0
117	9/22/2011 12:50	0	0	0
118	9/22/2011 12:51	0	0	0
119	9/22/2011 12:52	0	0	0
120	9/22/2011 12:53	0	0	0
121	9/22/2011 12:54	0	0	0
122	9/22/2011 12:55	0.016	0	0.064
123	9/22/2011 12:56	0.033	0	0.106
124	9/22/2011 12:57	0	0	0
125	9/22/2011 12:58	0.013	0	0.075
126	9/22/2011 12:59	0.001	0	0.011
127	9/22/2011 13:00	0	0	0.001
128	9/22/2011 13:01	0	0	0
129	9/22/2011 13:02	0	0	0
130	9/22/2011 13:03	0	0	0
131	9/22/2011 13:04	0	0	0

132	9/22/2011 13:05	0.002	0	0.021
133	9/22/2011 13:06	0	0	0
134	9/22/2011 13:07	0	0	0
135	9/22/2011 13:08	0	0	0
136	9/22/2011 13:09	0	0	0
137	9/22/2011 13:10	0	0	0
138	9/22/2011 13:11	0	0	0
139	9/22/2011 13:12	0.041	0	0.102
140	9/22/2011 13:13	0.016	0	0.077
141	9/22/2011 13:14	0	0	0
142	9/22/2011 13:15	0	0	0
143	9/22/2011 13:16	0.014	0	0.07
144	9/22/2011 13:17	0	0	0
145	9/22/2011 13:18	0	0	0
146	9/22/2011 13:19	0	0	0
147	9/22/2011 13:20	0.002	0	0.019
148	9/22/2011 13:21	0	0	0.004
149	9/22/2011 13:22	0	0	0
150	9/22/2011 13:23	0.001	0	0.014
151	9/22/2011 13:24	0.003	0	0.016
152	9/22/2011 13:25	0	0	0
153	9/22/2011 13:26	0.037	0	0.108
154	9/22/2011 13:27	0	0	0
155	9/22/2011 13:28	0	0	0
156	9/22/2011 13:29	0	0	0
157	9/22/2011 13:30	0	0	0
158	9/22/2011 13:31	0	0	0
159	9/22/2011 13:32	0	0	0
160	9/22/2011 13:33	0	0	0
161	9/22/2011 13:34	0	0	0
162	9/22/2011 13:35	0	0	0
163	9/22/2011 13:36	0	0	0
164	9/22/2011 13:37	0	0	0
165	9/22/2011 13:38	0	0	0
166	9/22/2011 13:39	0	0	0
167	9/22/2011 13:40	0	0	0
168	9/22/2011 13:41	0	0	0
169	9/22/2011 13:42	0	0	0
170	9/22/2011 13:43	0	0	0
171	9/22/2011 13:44	0	0	0
172	9/22/2011 13:45	0.001	0	0.02
173	9/22/2011 13:46	0	0	0
174	9/22/2011 13:47	0.001	0	0.022
175	9/22/2011 13:48	0	0	0
176	9/22/2011 13:49	0	0	0
177	9/22/2011 13:50	0	0	0
178	9/22/2011 13:51	0	0	0
179	9/22/2011 13:52	0	0	0
180	9/22/2011 13:53	0	0	0
181	9/22/2011 13:54	0	0	0
182	9/22/2011 13:55	0.012	0	0.13
183	9/22/2011 13:56	0.008	0	0.054
184	9/22/2011 13:57	0	0	0
185	9/22/2011 13:58	0	0	0
186	9/22/2011 13:59	0	0	0
187	9/22/2011 14:00	0.027	0	0.105
188	9/22/2011 14:01	0.004	0	0.028
189	9/22/2011 14:02	0	0	0
190	9/22/2011 14:03	0	0	0.007
191	9/22/2011 14:04	0.04	0	0.15
192	9/22/2011 14:05	0.016	0	0.127
193	9/22/2011 14:06	0	0	0
194	9/22/2011 14:07	0	0	0
195	9/22/2011 14:08	0	0	0
196	9/22/2011 14:09	0	0	0
197	9/22/2011 14:10	0.013	0	0.072
198	9/22/2011 14:11	0.001	0	0.024
199	9/22/2011 14:12	0.021	0	0.104
200	9/22/2011 14:13	0.066	0.018	0.153
201	9/22/2011 14:14	0.071	0	0.139
202	9/22/2011 14:15	0.002	0	0.031
203	9/22/2011 14:16	0.071	0	0.163
204	9/22/2011 14:17	0.063	0.036	0.093
205	9/22/2011 14:18	0.08	0.027	0.185
206	9/22/2011 14:19	0.107	0.048	0.17
207	9/22/2011 14:20	0.022	0	0.059
208	9/22/2011 14:21	0.009	0	0.041
209	9/22/2011 14:22	0.157	0	0.302
210	9/22/2011 14:23	0.026	0	0.067
211	9/22/2011 14:24	0.009	0	0.051
212	9/22/2011 14:25	0	0	0
213	9/22/2011 14:26	0.012	0	0.061
214	9/22/2011 14:27	0.028	0	0.097
215	9/22/2011 14:28	0.041	0.001	0.094
216	9/22/2011 14:29	0.083	0.041	0.124
217	9/22/2011 14:30	0.022	0	0.074
218	9/22/2011 14:31	0	0	0

219	9/22/2011 14:32	0	0	0
220	9/22/2011 14:33	0.038	0	0.173
221	9/22/2011 14:34	0.037	0	0.15
222	9/22/2011 14:35	0	0	0.006
223	9/22/2011 14:36	0.018	0	0.164
224	9/22/2011 14:37	0	0	0.007
225	9/22/2011 14:38	0	0	0
226	9/22/2011 14:39	0	0	0
227	9/22/2011 14:40	0.009	0	0.067
228	9/22/2011 14:41	0.012	0	0.085
229	9/22/2011 14:42	0.008	0	0.035
230	9/22/2011 14:43	0	0	0
231	9/22/2011 14:44	0	0	0
232	9/22/2011 14:45	0.042	0	0.171
233	9/22/2011 14:46	0.016	0	0.076
234	9/22/2011 14:47	0.025	0	0.082
235	9/22/2011 14:48	0.016	0	0.097
236	9/22/2011 14:49	0.042	0	0.157
237	9/22/2011 14:50	0.067	0.021	0.104
238	9/22/2011 14:51	0.076	0.002	0.17
239	9/22/2011 14:52	0.041	0.003	0.077
240	9/22/2011 14:53	0.008	0	0.045
241	9/22/2011 14:54	0.077	0	0.222
242	9/22/2011 14:55	0.106	0.07	0.18
243	9/22/2011 14:56	0.16	0.076	0.249
244	9/22/2011 14:57	0.204	0.019	0.353
245	9/22/2011 14:58	0.246	0.189	0.325
246	9/22/2011 14:59	0.202	0.145	0.253
247	9/22/2011 15:00	0.157	0.059	0.271
248	9/22/2011 15:01	0.116	0.058	0.247
249	9/22/2011 15:02	0.128	0.042	0.267
250	9/22/2011 15:03	0.133	0.043	0.235
251	9/22/2011 15:04	0.044	0	0.142
252	9/22/2011 15:05	0.023	0	0.164
253	9/22/2011 15:06	0.114	0.049	0.172
254	9/22/2011 15:07	0.02	0	0.081
255	9/22/2011 15:08	0.041	0	0.109
256	9/22/2011 15:09	0.107	0	0.315
257	9/22/2011 15:10	0.14	0.05	0.213
258	9/22/2011 15:11	0.135	0.07	0.218
259	9/22/2011 15:12	0.238	0.156	0.352
260	9/22/2011 15:13	0.104	0.012	0.222
261	9/22/2011 15:14	0.101	0.004	0.203
262	9/22/2011 15:15	0.143	0.023	0.216
263	9/22/2011 15:16	0.072	0.031	0.103
264	9/22/2011 15:17	0.185	0.049	0.246
265	9/22/2011 15:18	0.186	0.116	0.295
266	9/22/2011 15:19	0.141	0.061	0.213
267	9/22/2011 15:20	0.146	0.012	0.29
268	9/22/2011 15:21	0.134	0.038	0.217
269	9/22/2011 15:22	0.029	0	0.087
270	9/22/2011 15:23	0.052	0	0.125
271	9/22/2011 15:24	0.008	0	0.062
272	9/22/2011 15:25	0.001	0	0.016
273	9/22/2011 15:26	0.08	0	0.307
274	9/22/2011 15:27	0.012	0	0.095
275	9/22/2011 15:28	0	0	0.031
276	9/22/2011 15:29	0.051	0	0.144
277	9/22/2011 15:30	0.011	0	0.142
278	9/22/2011 15:31	0.008	0	0.044
279	9/22/2011 15:32	0.007	0	0.065
280	9/22/2011 15:33	0	0	0
281	9/22/2011 15:34	0.058	0	0.135
282	9/22/2011 15:35	0.022	0	0.092
283	9/22/2011 15:36	0.033	0	0.114
284	9/22/2011 15:37	0	0	0.003
285	9/22/2011 15:38	0	0	0.006
286	9/22/2011 15:39	0.098	0	0.181
287	9/22/2011 15:40	0.205	0.076	0.329
288	9/22/2011 15:41	0.212	0.135	0.29
289	9/22/2011 15:42	0.192	0.064	0.378
290	9/22/2011 15:43	0.141	0.037	0.227
291	9/22/2011 15:44	0.089	0.005	0.232
292	9/22/2011 15:45	0.142	0.073	0.205
293	9/22/2011 15:46	0.061	0	0.149
294	9/22/2011 15:47	0.162	0.013	0.289
295	9/22/2011 15:48	0.267	0.157	0.385
296	9/22/2011 15:49	0.172	0.106	0.253
297	9/22/2011 15:50	0.218	0.146	0.326
298	9/22/2011 15:51	0.245	0.179	0.323
299	9/22/2011 15:52	0.317	0.242	0.435
300	9/22/2011 15:53	0.213	0.143	0.262
301	9/22/2011 15:54	0.343	0.279	0.431
302	9/22/2011 15:55	0.414	0.303	0.535
303	9/22/2011 15:56	0.37	0.261	0.492
304	9/22/2011 15:57	0.23	0.14	0.31
305	9/22/2011 15:58	0.209	0.154	0.308

306	9/22/2011 15:59	0.166	0.095	0.23
307	9/22/2011 16:00	0.264	0.12	0.473
308	9/22/2011 16:01	0.24	0.094	0.308
309	9/22/2011 16:02	0.061	0.003	0.11
310	9/22/2011 16:03	0.097	0	0.334
311	9/22/2011 16:04	0.275	0.162	0.335
312	9/22/2011 16:05	0.067	0	0.218
313	9/22/2011 16:06	0.114	0.01	0.247
314	9/22/2011 16:07	0.184	0.11	0.271
315	9/22/2011 16:08	0.154	0.093	0.226
316	9/22/2011 16:09	0.144	0.063	0.383
317	9/22/2011 16:10	0.37	0.22	0.658
318	9/22/2011 16:11	0.295	0.126	0.379
319	9/22/2011 16:12	0.257	0.149	0.348
320	9/22/2011 16:13	0.4	0.266	0.626
321	9/22/2011 16:14	0.278	0.19	0.365
322	9/22/2011 16:15	0.196	0.15	0.242
323	9/22/2011 16:16	0.17	0.098	0.226
324	9/22/2011 16:17	0.218	0.126	0.344
325	9/22/2011 16:18	0.193	0.138	0.307
326	9/22/2011 16:19	0.254	0.152	0.511
327	9/22/2011 16:20	0.464	0.226	0.587
328	9/22/2011 16:21	0.269	0.182	0.429
329	9/22/2011 16:22	0.394	0.308	0.471
330	9/22/2011 16:23	0.294	0.157	0.386
331	9/22/2011 16:24	0.388	0.215	0.518
332	9/22/2011 16:25	0.337	0.22	0.495
333	9/22/2011 16:26	0.248	0.203	0.368
334	9/22/2011 16:27	0.241	0.093	0.324
335	9/22/2011 16:28	0.111	0.035	0.186
336	9/22/2011 16:29	0.104	0.037	0.159
337	9/22/2011 16:30	0.191	0	0.363
338	9/22/2011 16:31	0.031	0	0.126
339	9/22/2011 16:32	0.039	0	0.115
340	9/22/2011 16:33	0.082	0	0.172
341	9/22/2011 16:34	0	0	0.008
342	9/22/2011 16:35	0.031	0	0.086
343	9/22/2011 16:36	0.051	0	0.204
344	9/22/2011 16:37	0.038	0	0.107
345	9/22/2011 16:38	0.012	0	0.041
346	9/22/2011 16:39	0	0	0.003
347	9/22/2011 16:40	0	0	0.002
348	9/22/2011 16:41	0	0	0.001
349	9/22/2011 16:42	0.029	0	0.079
350	9/22/2011 16:43	0.027	0	0.076
351	9/22/2011 16:44	0.005	0	0.04
352	9/22/2011 16:45	0.12	0	0.251
353	9/22/2011 16:46	0.046	0.025	0.097
354	9/22/2011 16:47	0.106	0	0.207
355	9/22/2011 16:48	0.07	0	0.259
356	9/22/2011 16:49	0.224	0.106	0.304
357	9/22/2011 16:50	0.208	0.11	0.303
358	9/22/2011 16:51	0.196	0.13	0.231
359	9/22/2011 16:52	0.266	0.119	0.422
360	9/22/2011 16:53	0.117	0.03	0.164
361	9/22/2011 16:54	0.095	0.013	0.22
362	9/22/2011 16:55	0.022	0	0.051
363	9/22/2011 16:56	0.043	0	0.321
364	9/22/2011 16:57	0.068	0.006	0.177
365	9/22/2011 16:58	0.02	0	0.073
366	9/22/2011 16:59	0.068	0	0.189
367	9/22/2011 17:00	0.149	0.032	0.211
368	9/22/2011 17:01	0.189	0.012	0.312
369	9/22/2011 17:02	0.131	0.009	0.338
370	9/22/2011 17:03	0.024	0	0.108
371	9/22/2011 17:04	0.05	0	0.413
372	9/22/2011 17:05	0.155	0.003	0.33
373	9/22/2011 17:06	0.346	0.287	0.413
374	9/22/2011 17:07	0.28	0.214	0.354
375	9/22/2011 17:08	0.133	0.098	0.176
376	9/22/2011 17:09	0.08	0.014	0.15
377	9/22/2011 17:10	0.041	0	0.096
378	9/22/2011 17:11	0.032	0	0.06
379	9/22/2011 17:12	0.023	0	0.105
380	9/22/2011 17:13	0.043	0	0.205
381	9/22/2011 17:14	0.074	0	0.2
382	9/22/2011 17:15	0.023	0	0.08
383	9/22/2011 17:16	0.002	0	0.02
384	9/22/2011 17:17	0.331	0	1.161

==========Event #12 information (end)==========

=========Event #25 information (begin)=========

[Event #25 name:]--[Event #25]2011-09-23 07:35<-->2011-09-23 13:28

[Event start time:]--2011-09-23 07:35:14[Event end time:]--2011-09-23 13:28:14

==========Event #25 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 353 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-23 07:25:002011-09-23 07:25:002011-09-23 07:25:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

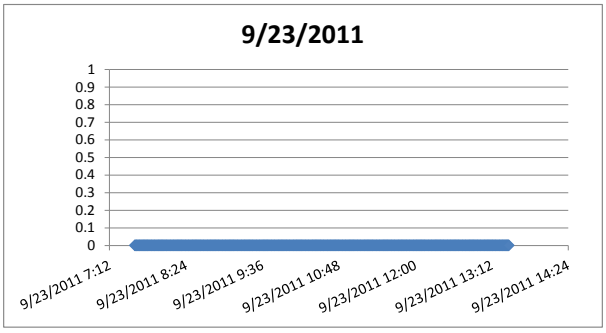
Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #25 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/23/2011 7:36	0	0	0
2	9/23/2011 7:37	0	0	0
3	9/23/2011 7:38	0	0	0
4	9/23/2011 7:39	0	0	0
5	9/23/2011 7:40	0	0	0
6	9/23/2011 7:41	0	0	0
7	9/23/2011 7:42	0	0	0
8	9/23/2011 7:43	0	0	0
9	9/23/2011 7:44	0	0	0
10	9/23/2011 7:45	0	0	0
11	9/23/2011 7:46	0	0	0
12	9/23/2011 7:47	0	0	0
13	9/23/2011 7:48	0	0	0
14	9/23/2011 7:49	0	0	0
15	9/23/2011 7:50	0	0	0
16	9/23/2011 7:51	0	0	0
17	9/23/2011 7:52	0	0	0
18	9/23/2011 7:53	0	0	0
19	9/23/2011 7:54	0	0	0
20	9/23/2011 7:55	0	0	0
21	9/23/2011 7:56	0	0	0
22	9/23/2011 7:57	0	0	0
23	9/23/2011 7:58	0	0	0
24	9/23/2011 7:59	0	0	0
25	9/23/2011 8:00	0	0	0
26	9/23/2011 8:01	0	0	0
27	9/23/2011 8:02	0	0	0
28	9/23/2011 8:03	0	0	0
29	9/23/2011 8:04	0	0	0
30	9/23/2011 8:05	0	0	0
31	9/23/2011 8:06	0	0	0
32	9/23/2011 8:07	0	0	0
33	9/23/2011 8:08	0	0	0
34	9/23/2011 8:09	0	0	0
35	9/23/2011 8:10	0	0	0
36	9/23/2011 8:11	0	0	0
37	9/23/2011 8:12	0	0	0
38	9/23/2011 8:13	0	0	0
39	9/23/2011 8:14	0	0	0
40	9/23/2011 8:15	0	0	0
41	9/23/2011 8:16	0	0	0
42	9/23/2011 8:17	0	0	0
43	9/23/2011 8:18	0	0	0
44	9/23/2011 8:19	0	0	0
45	9/23/2011 8:20	0	0	0
46	9/23/2011 8:21	0	0	0
47	9/23/2011 8:22	0	0	0
48	9/23/2011 8:23	0	0	0
49	9/23/2011 8:24	0	0	0
50	9/23/2011 8:25	0	0	0
51	9/23/2011 8:26	0	0	0
52	9/23/2011 8:27	0	0	0
53	9/23/2011 8:28	0	0	0
54	9/23/2011 8:29	0	0	0
55	9/23/2011 8:30	0	0	0
56	9/23/2011 8:31	0	0	0
57	9/23/2011 8:32	0	0	0
58	9/23/2011 8:33	0	0	0
59	9/23/2011 8:34	0	0	0
60	9/23/2011 8:35	0	0	0



61	9/23/2011 8:36	0	0	0
62	9/23/2011 8:37	0	0	0
63	9/23/2011 8:38	0	0	0
64	9/23/2011 8:39	0	0	0
65	9/23/2011 8:40	0	0	0
66	9/23/2011 8:41	0	0	0
67	9/23/2011 8:42	0	0	0
68	9/23/2011 8:43	0	0	0
69	9/23/2011 8:44	0	0	0
70	9/23/2011 8:45	0	0	0
71	9/23/2011 8:46	0	0	0
72	9/23/2011 8:47	0	0	0
73	9/23/2011 8:48	0	0	0
74	9/23/2011 8:49	0	0	0
75	9/23/2011 8:50	0	0	0
76	9/23/2011 8:51	0	0	0
77	9/23/2011 8:52	0	0	0
78	9/23/2011 8:53	0	0	0
79	9/23/2011 8:54	0	0	0
80	9/23/2011 8:55	0	0	0
81	9/23/2011 8:56	0	0	0
82	9/23/2011 8:57	0	0	0
83	9/23/2011 8:58	0	0	0
84	9/23/2011 8:59	0	0	0
85	9/23/2011 9:00	0	0	0
86	9/23/2011 9:01	0	0	0
87	9/23/2011 9:02	0	0	0
88	9/23/2011 9:03	0	0	0
89	9/23/2011 9:04	0	0	0
90	9/23/2011 9:05	0	0	0
91	9/23/2011 9:06	0	0	0
92	9/23/2011 9:07	0	0	0
93	9/23/2011 9:08	0	0	0
94	9/23/2011 9:09	0	0	0
95	9/23/2011 9:10	0	0	0
96	9/23/2011 9:11	0	0	0
97	9/23/2011 9:12	0	0	0
98	9/23/2011 9:13	0	0	0
99	9/23/2011 9:14	0	0	0
100	9/23/2011 9:15	0	0	0
101	9/23/2011 9:16	0	0	0
102	9/23/2011 9:17	0	0	0
103	9/23/2011 9:18	0	0	0
104	9/23/2011 9:19	0	0	0
105	9/23/2011 9:20	0	0	0
106	9/23/2011 9:21	0	0	0
107	9/23/2011 9:22	0	0	0
108	9/23/2011 9:23	0	0	0
109	9/23/2011 9:24	0	0	0
110	9/23/2011 9:25	0	0	0
111	9/23/2011 9:26	0	0	0
112	9/23/2011 9:27	0	0	0
113	9/23/2011 9:28	0	0	0
114	9/23/2011 9:29	0	0	0
115	9/23/2011 9:30	0	0	0
116	9/23/2011 9:31	0	0	0
117	9/23/2011 9:32	0	0	0
118	9/23/2011 9:33	0	0	0
119	9/23/2011 9:34	0	0	0
120	9/23/2011 9:35	0	0	0
121	9/23/2011 9:36	0	0	0
122	9/23/2011 9:37	0	0	0
123	9/23/2011 9:38	0	0	0
124	9/23/2011 9:39	0	0	0
125	9/23/2011 9:40	0	0	0
126	9/23/2011 9:41	0	0	0
127	9/23/2011 9:42	0	0	0
128	9/23/2011 9:43	0	0	0
129	9/23/2011 9:44	0	0	0
130	9/23/2011 9:45	0	0	0
131	9/23/2011 9:46	0	0	0
132	9/23/2011 9:47	0	0	0
133	9/23/2011 9:48	0	0	0
134	9/23/2011 9:49	0	0	0
135	9/23/2011 9:50	0	0	0
136	9/23/2011 9:51	0	0	0
137	9/23/2011 9:52	0	0	0
138	9/23/2011 9:53	0	0	0
139	9/23/2011 9:54	0	0	0
140	9/23/2011 9:55	0	0	0
141	9/23/2011 9:56	0	0	0

142	9/23/2011 9:57	0	0	0
143	9/23/2011 9:58	0	0	0
144	9/23/2011 9:59	0	0	0
145	9/23/2011 10:00	0	0	0
146	9/23/2011 10:01	0	0	0
147	9/23/2011 10:02	0	0	0
148	9/23/2011 10:03	0	0	0
149	9/23/2011 10:04	0	0	0
150	9/23/2011 10:05	0	0	0
151	9/23/2011 10:06	0	0	0
152	9/23/2011 10:07	0	0	0
153	9/23/2011 10:08	0	0	0
154	9/23/2011 10:09	0	0	0
155	9/23/2011 10:10	0	0	0
156	9/23/2011 10:11	0	0	0
157	9/23/2011 10:12	0	0	0
158	9/23/2011 10:13	0	0	0
159	9/23/2011 10:14	0	0	0
160	9/23/2011 10:15	0	0	0
161	9/23/2011 10:16	0	0	0
162	9/23/2011 10:17	0	0	0
163	9/23/2011 10:18	0	0	0
164	9/23/2011 10:19	0	0	0
165	9/23/2011 10:20	0	0	0
166	9/23/2011 10:21	0	0	0
167	9/23/2011 10:22	0	0	0
168	9/23/2011 10:23	0	0	0
169	9/23/2011 10:24	0	0	0
170	9/23/2011 10:25	0	0	0
171	9/23/2011 10:26	0	0	0
172	9/23/2011 10:27	0	0	0
173	9/23/2011 10:28	0	0	0
174	9/23/2011 10:29	0	0	0
175	9/23/2011 10:30	0	0	0
176	9/23/2011 10:31	0	0	0
177	9/23/2011 10:32	0	0	0
178	9/23/2011 10:33	0	0	0
179	9/23/2011 10:34	0	0	0
180	9/23/2011 10:35	0	0	0
181	9/23/2011 10:36	0	0	0
182	9/23/2011 10:37	0	0	0
183	9/23/2011 10:38	0	0	0
184	9/23/2011 10:39	0	0	0
185	9/23/2011 10:40	0	0	0
186	9/23/2011 10:41	0	0	0
187	9/23/2011 10:42	0	0	0
188	9/23/2011 10:43	0	0	0
189	9/23/2011 10:44	0	0	0
190	9/23/2011 10:45	0	0	0
191	9/23/2011 10:46	0	0	0
192	9/23/2011 10:47	0	0	0
193	9/23/2011 10:48	0	0	0
194	9/23/2011 10:49	0	0	0
195	9/23/2011 10:50	0	0	0
196	9/23/2011 10:51	0	0	0
197	9/23/2011 10:52	0	0	0
198	9/23/2011 10:53	0	0	0
199	9/23/2011 10:54	0	0	0
200	9/23/2011 10:55	0	0	0
201	9/23/2011 10:56	0	0	0
202	9/23/2011 10:57	0	0	0
203	9/23/2011 10:58	0	0	0
204	9/23/2011 10:59	0	0	0
205	9/23/2011 11:00	0	0	0
206	9/23/2011 11:01	0	0	0
207	9/23/2011 11:02	0	0	0
208	9/23/2011 11:03	0	0	0
209	9/23/2011 11:04	0	0	0
210	9/23/2011 11:05	0	0	0
211	9/23/2011 11:06	0	0	0
212	9/23/2011 11:07	0	0	0
213	9/23/2011 11:08	0	0	0
214	9/23/2011 11:09	0	0	0
215	9/23/2011 11:10	0	0	0
216	9/23/2011 11:11	0	0	0
217	9/23/2011 11:12	0	0	0
218	9/23/2011 11:13	0	0	0
219	9/23/2011 11:14	0	0	0
220	9/23/2011 11:15	0	0	0
221	9/23/2011 11:16	0	0	0
222	9/23/2011 11:17	0	0	0

223	9/23/2011 11:18	0	0	0
224	9/23/2011 11:19	0	0	0
225	9/23/2011 11:20	0	0	0
226	9/23/2011 11:21	0	0	0
227	9/23/2011 11:22	0	0	0
228	9/23/2011 11:23	0	0	0
229	9/23/2011 11:24	0	0	0
230	9/23/2011 11:25	0	0	0
231	9/23/2011 11:26	0	0	0
232	9/23/2011 11:27	0	0	0
233	9/23/2011 11:28	0	0	0
234	9/23/2011 11:29	0	0	0
235	9/23/2011 11:30	0	0	0
236	9/23/2011 11:31	0	0	0
237	9/23/2011 11:32	0	0	0
238	9/23/2011 11:33	0	0	0
239	9/23/2011 11:34	0	0	0
240	9/23/2011 11:35	0	0	0
241	9/23/2011 11:36	0	0	0
242	9/23/2011 11:37	0	0	0
243	9/23/2011 11:38	0	0	0
244	9/23/2011 11:39	0	0	0
245	9/23/2011 11:40	0	0	0
246	9/23/2011 11:41	0	0	0
247	9/23/2011 11:42	0	0	0
248	9/23/2011 11:43	0	0	0
249	9/23/2011 11:44	0	0	0
250	9/23/2011 11:45	0	0	0
251	9/23/2011 11:46	0	0	0
252	9/23/2011 11:47	0	0	0
253	9/23/2011 11:48	0	0	0
254	9/23/2011 11:49	0	0	0
255	9/23/2011 11:50	0	0	0
256	9/23/2011 11:51	0	0	0
257	9/23/2011 11:52	0	0	0
258	9/23/2011 11:53	0	0	0
259	9/23/2011 11:54	0	0	0
260	9/23/2011 11:55	0	0	0
261	9/23/2011 11:56	0	0	0
262	9/23/2011 11:57	0	0	0
263	9/23/2011 11:58	0	0	0
264	9/23/2011 11:59	0	0	0
265	9/23/2011 12:00	0	0	0
266	9/23/2011 12:01	0	0	0
267	9/23/2011 12:02	0	0	0
268	9/23/2011 12:03	0	0	0
269	9/23/2011 12:04	0	0	0
270	9/23/2011 12:05	0	0	0
271	9/23/2011 12:06	0	0	0
272	9/23/2011 12:07	0	0	0
273	9/23/2011 12:08	0	0	0
274	9/23/2011 12:09	0	0	0
275	9/23/2011 12:10	0	0	0
276	9/23/2011 12:11	0	0	0
277	9/23/2011 12:12	0	0	0
278	9/23/2011 12:13	0	0	0
279	9/23/2011 12:14	0	0	0
280	9/23/2011 12:15	0	0	0
281	9/23/2011 12:16	0	0	0
282	9/23/2011 12:17	0	0	0
283	9/23/2011 12:18	0	0	0
284	9/23/2011 12:19	0	0	0
285	9/23/2011 12:20	0	0	0
286	9/23/2011 12:21	0	0	0
287	9/23/2011 12:22	0	0	0
288	9/23/2011 12:23	0	0	0
289	9/23/2011 12:24	0	0	0
290	9/23/2011 12:25	0	0	0
291	9/23/2011 12:26	0	0	0
292	9/23/2011 12:27	0	0	0
293	9/23/2011 12:28	0	0	0
294	9/23/2011 12:29	0	0	0
295	9/23/2011 12:30	0	0	0
296	9/23/2011 12:31	0	0	0
297	9/23/2011 12:32	0	0	0
298	9/23/2011 12:33	0	0	0
299	9/23/2011 12:34	0	0	0
300	9/23/2011 12:35	0	0	0
301	9/23/2011 12:36	0	0	0
302	9/23/2011 12:37	0	0	0
303	9/23/2011 12:38	0	0	0

304	9/23/2011 12:39	0	0	0
305	9/23/2011 12:40	0	0	0
306	9/23/2011 12:41	0	0	0
307	9/23/2011 12:42	0	0	0
308	9/23/2011 12:43	0	0	0
309	9/23/2011 12:44	0	0	0
310	9/23/2011 12:45	0	0	0
311	9/23/2011 12:46	0	0	0
312	9/23/2011 12:47	0	0	0
313	9/23/2011 12:48	0	0	0
314	9/23/2011 12:49	0	0	0
315	9/23/2011 12:50	0	0	0
316	9/23/2011 12:51	0	0	0
317	9/23/2011 12:52	0	0	0
318	9/23/2011 12:53	0	0	0
319	9/23/2011 12:54	0	0	0
320	9/23/2011 12:55	0	0	0
321	9/23/2011 12:56	0	0	0
322	9/23/2011 12:57	0	0	0
323	9/23/2011 12:58	0	0	0
324	9/23/2011 12:59	0	0	0
325	9/23/2011 13:00	0	0	0
326	9/23/2011 13:01	0	0	0
327	9/23/2011 13:02	0	0	0
328	9/23/2011 13:03	0	0	0
329	9/23/2011 13:04	0	0	0
330	9/23/2011 13:05	0	0	0
331	9/23/2011 13:06	0	0	0
332	9/23/2011 13:07	0	0	0
333	9/23/2011 13:08	0	0	0
334	9/23/2011 13:09	0	0	0
335	9/23/2011 13:10	0	0	0
336	9/23/2011 13:11	0	0	0
337	9/23/2011 13:12	0	0	0
338	9/23/2011 13:13	0	0	0
339	9/23/2011 13:14	0	0	0
340	9/23/2011 13:15	0	0	0
341	9/23/2011 13:16	0	0	0
342	9/23/2011 13:17	0	0	0
343	9/23/2011 13:18	0	0	0
344	9/23/2011 13:19	0	0	0
345	9/23/2011 13:20	0	0	0
346	9/23/2011 13:21	0	0	0
347	9/23/2011 13:22	0	0	0
348	9/23/2011 13:23	0	0	0
349	9/23/2011 13:24	0	0	0
350	9/23/2011 13:25	0	0	0
351	9/23/2011 13:26	0	0	0
352	9/23/2011 13:27	0	0	0
353	9/23/2011 13:28	0	0	0

==========Event #25 information (end)==========

=========Event #27 information (begin)=========

[Event #27 name:]--[Event #27]2011-09-24 12:15<-->2011-09-24 16:52

[Event start time:]--2011-09-24 12:15:41[Event end time:]--2011-09-24 16:52:41

==========Event #27 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 277 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-24 12:15:002011-09-24 12:15:002011-09-24 12:15:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

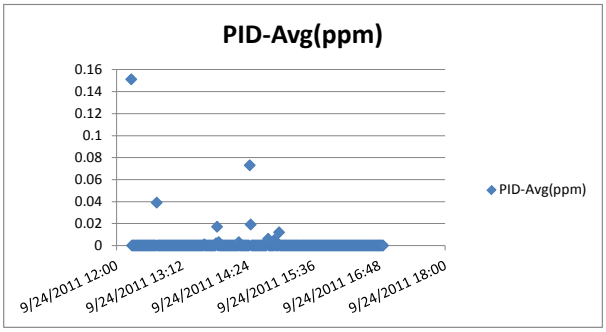
High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #27 data informations==========



LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/24/2011 12:16	0.151	0	2.062
2	9/24/2011 12:17	0	0	0.009
3	9/24/2011 12:18	0	0	0
4	9/24/2011 12:19	0	0	0
5	9/24/2011 12:20	0	0	0
6	9/24/2011 12:21	0	0	0
7	9/24/2011 12:22	0	0	0
8	9/24/2011 12:23	0	0	0
9	9/24/2011 12:24	0	0	0
10	9/24/2011 12:25	0	0	0
11	9/24/2011 12:26	0	0	0
12	9/24/2011 12:27	0	0	0
13	9/24/2011 12:28	0	0	0
14	9/24/2011 12:29	0	0	0
15	9/24/2011 12:30	0	0	0
16	9/24/2011 12:31	0	0	0
17	9/24/2011 12:32	0	0	0
18	9/24/2011 12:33	0	0	0
19	9/24/2011 12:34	0	0	0
20	9/24/2011 12:35	0	0	0
21	9/24/2011 12:36	0	0	0
22	9/24/2011 12:37	0	0	0
23	9/24/2011 12:38	0	0	0
24	9/24/2011 12:39	0	0	0
25	9/24/2011 12:40	0	0	0
26	9/24/2011 12:41	0	0	0
27	9/24/2011 12:42	0	0	0
28	9/24/2011 12:43	0	0	0
29	9/24/2011 12:44	0.039	0	0.461
30	9/24/2011 12:45	0	0	0
31	9/24/2011 12:46	0	0	0
32	9/24/2011 12:47	0	0	0
33	9/24/2011 12:48	0	0	0
34	9/24/2011 12:49	0	0	0
35	9/24/2011 12:50	0	0	0
36	9/24/2011 12:51	0	0	0
37	9/24/2011 12:52	0	0	0
38	9/24/2011 12:53	0	0	0
39	9/24/2011 12:54	0	0	0
40	9/24/2011 12:55	0	0	0
41	9/24/2011 12:56	0	0	0
42	9/24/2011 12:57	0	0	0
43	9/24/2011 12:58	0	0	0
44	9/24/2011 12:59	0	0	0
45	9/24/2011 13:00	0	0	0
46	9/24/2011 13:01	0	0	0
47	9/24/2011 13:02	0	0	0
48	9/24/2011 13:03	0	0	0
49	9/24/2011 13:04	0	0	0
50	9/24/2011 13:05	0	0	0
51	9/24/2011 13:06	0	0	0
52	9/24/2011 13:07	0	0	0
53	9/24/2011 13:08	0	0	0
54	9/24/2011 13:09	0	0	0
55	9/24/2011 13:10	0	0	0
56	9/24/2011 13:11	0	0	0
57	9/24/2011 13:12	0	0	0
58	9/24/2011 13:13	0	0	0
59	9/24/2011 13:14	0	0	0
60	9/24/2011 13:15	0	0	0

61	9/24/2011 13:16	0	0	0
62	9/24/2011 13:17	0	0	0
63	9/24/2011 13:18	0	0	0
64	9/24/2011 13:19	0	0	0
65	9/24/2011 13:20	0	0	0
66	9/24/2011 13:21	0	0	0
67	9/24/2011 13:22	0	0	0
68	9/24/2011 13:23	0	0	0
69	9/24/2011 13:24	0	0	0
70	9/24/2011 13:25	0	0	0
71	9/24/2011 13:26	0	0	0
72	9/24/2011 13:27	0	0	0
73	9/24/2011 13:28	0	0	0
74	9/24/2011 13:29	0	0	0
75	9/24/2011 13:30	0	0	0
76	9/24/2011 13:31	0	0	0
77	9/24/2011 13:32	0	0	0
78	9/24/2011 13:33	0	0	0
79	9/24/2011 13:34	0	0	0
80	9/24/2011 13:35	0	0	0
81	9/24/2011 13:36	0.001	0	0.024
82	9/24/2011 13:37	0	0	0
83	9/24/2011 13:38	0	0	0
84	9/24/2011 13:39	0	0	0
85	9/24/2011 13:40	0	0	0
86	9/24/2011 13:41	0	0	0
87	9/24/2011 13:42	0	0	0
88	9/24/2011 13:43	0	0	0
89	9/24/2011 13:44	0	0	0
90	9/24/2011 13:45	0	0	0
91	9/24/2011 13:46	0	0	0
92	9/24/2011 13:47	0	0	0
93	9/24/2011 13:48	0	0	0
94	9/24/2011 13:49	0.002	0	0.037
95	9/24/2011 13:50	0.017	0	0.197
96	9/24/2011 13:51	0	0	0
97	9/24/2011 13:52	0.003	0	0.046
98	9/24/2011 13:53	0	0	0
99	9/24/2011 13:54	0	0	0
100	9/24/2011 13:55	0	0	0
101	9/24/2011 13:56	0	0	0
102	9/24/2011 13:57	0	0	0
103	9/24/2011 13:58	0	0	0
104	9/24/2011 13:59	0	0	0
105	9/24/2011 14:00	0	0	0
106	9/24/2011 14:01	0	0	0
107	9/24/2011 14:02	0	0	0
108	9/24/2011 14:03	0	0	0
109	9/24/2011 14:04	0	0	0
110	9/24/2011 14:05	0	0	0
111	9/24/2011 14:06	0	0	0
112	9/24/2011 14:07	0	0	0
113	9/24/2011 14:08	0	0	0
114	9/24/2011 14:09	0	0	0
115	9/24/2011 14:10	0	0	0
116	9/24/2011 14:11	0	0	0
117	9/24/2011 14:12	0	0	0
118	9/24/2011 14:13	0	0	0
119	9/24/2011 14:14	0.003	0	0.05
120	9/24/2011 14:15	0	0	0
121	9/24/2011 14:16	0	0	0
122	9/24/2011 14:17	0	0	0
123	9/24/2011 14:18	0	0	0
124	9/24/2011 14:19	0	0	0
125	9/24/2011 14:20	0	0	0
126	9/24/2011 14:21	0	0	0
127	9/24/2011 14:22	0	0	0
128	9/24/2011 14:23	0	0	0
129	9/24/2011 14:24	0	0	0
130	9/24/2011 14:25	0	0	0
131	9/24/2011 14:26	0.073	0	0.38
132	9/24/2011 14:27	0.019	0	0.264
133	9/24/2011 14:28	0	0	0
134	9/24/2011 14:29	0	0	0
135	9/24/2011 14:30	0	0	0
136	9/24/2011 14:31	0	0	0
137	9/24/2011 14:32	0	0	0
138	9/24/2011 14:33	0	0	0
139	9/24/2011 14:34	0	0	0
140	9/24/2011 14:35	0	0	0
141	9/24/2011 14:36	0	0	0

142	9/24/2011 14:37	0	0	0
143	9/24/2011 14:38	0	0	0
144	9/24/2011 14:39	0	0	0
145	9/24/2011 14:40	0	0	0
146	9/24/2011 14:41	0	0	0
147	9/24/2011 14:42	0	0	0
148	9/24/2011 14:43	0	0	0
149	9/24/2011 14:44	0	0	0
150	9/24/2011 14:45	0.003	0	0.055
151	9/24/2011 14:46	0.006	0	0.077
152	9/24/2011 14:47	0	0	0.006
153	9/24/2011 14:48	0	0	0.009
154	9/24/2011 14:49	0	0	0
155	9/24/2011 14:50	0	0	0
156	9/24/2011 14:51	0	0	0.009
157	9/24/2011 14:52	0	0	0
158	9/24/2011 14:53	0.005	0	0.079
159	9/24/2011 14:54	0	0	0
160	9/24/2011 14:55	0	0	0
161	9/24/2011 14:56	0	0	0
162	9/24/2011 14:57	0	0	0.014
163	9/24/2011 14:58	0.012	0	0.082
164	9/24/2011 14:59	0	0	0
165	9/24/2011 15:00	0	0	0
166	9/24/2011 15:01	0	0	0
167	9/24/2011 15:02	0	0	0
168	9/24/2011 15:03	0	0	0
169	9/24/2011 15:04	0	0	0
170	9/24/2011 15:05	0	0	0
171	9/24/2011 15:06	0	0	0
172	9/24/2011 15:07	0	0	0
173	9/24/2011 15:08	0	0	0
174	9/24/2011 15:09	0	0	0
175	9/24/2011 15:10	0	0	0
176	9/24/2011 15:11	0	0	0
177	9/24/2011 15:12	0	0	0
178	9/24/2011 15:13	0	0	0
179	9/24/2011 15:14	0	0	0
180	9/24/2011 15:15	0	0	0
181	9/24/2011 15:16	0	0	0
182	9/24/2011 15:17	0	0	0
183	9/24/2011 15:18	0	0	0.01
184	9/24/2011 15:19	0	0	0
185	9/24/2011 15:20	0	0	0
186	9/24/2011 15:21	0	0	0
187	9/24/2011 15:22	0	0	0
188	9/24/2011 15:23	0	0	0
189	9/24/2011 15:24	0	0	0
190	9/24/2011 15:25	0	0	0
191	9/24/2011 15:26	0	0	0
192	9/24/2011 15:27	0	0	0
193	9/24/2011 15:28	0	0	0
194	9/24/2011 15:29	0	0	0
195	9/24/2011 15:30	0	0	0
196	9/24/2011 15:31	0	0	0
197	9/24/2011 15:32	0	0	0
198	9/24/2011 15:33	0	0	0
199	9/24/2011 15:34	0	0	0
200	9/24/2011 15:35	0	0	0
201	9/24/2011 15:36	0	0	0
202	9/24/2011 15:37	0	0	0
203	9/24/2011 15:38	0	0	0
204	9/24/2011 15:39	0	0	0
205	9/24/2011 15:40	0	0	0
206	9/24/2011 15:41	0	0	0
207	9/24/2011 15:42	0	0	0
208	9/24/2011 15:43	0	0	0
209	9/24/2011 15:44	0	0	0
210	9/24/2011 15:45	0	0	0
211	9/24/2011 15:46	0	0	0
212	9/24/2011 15:47	0	0	0
213	9/24/2011 15:48	0	0	0
214	9/24/2011 15:49	0	0	0
215	9/24/2011 15:50	0	0	0
216	9/24/2011 15:51	0	0	0
217	9/24/2011 15:52	0	0	0
218	9/24/2011 15:53	0	0	0
219	9/24/2011 15:54	0	0	0
220	9/24/2011 15:55	0	0	0
221	9/24/2011 15:56	0	0	0
222	9/24/2011 15:57	0	0	0

223	9/24/2011 15:58	0	0	0
224	9/24/2011 15:59	0	0	0
225	9/24/2011 16:00	0	0	0
226	9/24/2011 16:01	0	0	0
227	9/24/2011 16:02	0	0	0
228	9/24/2011 16:03	0	0	0
229	9/24/2011 16:04	0	0	0
230	9/24/2011 16:05	0	0	0
231	9/24/2011 16:06	0	0	0
232	9/24/2011 16:07	0	0	0
233	9/24/2011 16:08	0	0	0
234	9/24/2011 16:09	0	0	0
235	9/24/2011 16:10	0	0	0
236	9/24/2011 16:11	0	0	0
237	9/24/2011 16:12	0	0	0
238	9/24/2011 16:13	0	0	0
239	9/24/2011 16:14	0	0	0
240	9/24/2011 16:15	0	0	0
241	9/24/2011 16:16	0	0	0
242	9/24/2011 16:17	0	0	0
243	9/24/2011 16:18	0	0	0
244	9/24/2011 16:19	0	0	0
245	9/24/2011 16:20	0	0	0
246	9/24/2011 16:21	0	0	0
247	9/24/2011 16:22	0	0	0
248	9/24/2011 16:23	0	0	0
249	9/24/2011 16:24	0	0	0
250	9/24/2011 16:25	0	0	0
251	9/24/2011 16:26	0	0	0
252	9/24/2011 16:27	0	0	0
253	9/24/2011 16:28	0	0	0
254	9/24/2011 16:29	0	0	0
255	9/24/2011 16:30	0	0	0
256	9/24/2011 16:31	0	0	0
257	9/24/2011 16:32	0	0	0
258	9/24/2011 16:33	0	0	0
259	9/24/2011 16:34	0	0	0
260	9/24/2011 16:35	0	0	0
261	9/24/2011 16:36	0	0	0
262	9/24/2011 16:37	0	0	0
263	9/24/2011 16:38	0	0	0
264	9/24/2011 16:39	0	0	0
265	9/24/2011 16:40	0	0	0
266	9/24/2011 16:41	0	0	0
267	9/24/2011 16:42	0	0	0
268	9/24/2011 16:43	0	0	0
269	9/24/2011 16:44	0	0	0
270	9/24/2011 16:45	0	0	0
271	9/24/2011 16:46	0	0	0
272	9/24/2011 16:47	0	0	0
273	9/24/2011 16:48	0	0	0
274	9/24/2011 16:49	0	0	0
275	9/24/2011 16:50	0	0	0
276	9/24/2011 16:51	0	0	0
277	9/24/2011 16:52	0	0	0

==========Event #27 information (end)==========

=========Event #30 information (begin)=========

[Event #30 name:]--[Event #30]2011-09-25 07:08<-->2011-09-25 07:59

[Event start time:]--2011-09-25 07:08:39[Event end time:]--2011-09-25 07:59:39

==========Event #30 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 51 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-25 07:05:002011-09-25 07:05:002011-09-25 07:05:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000

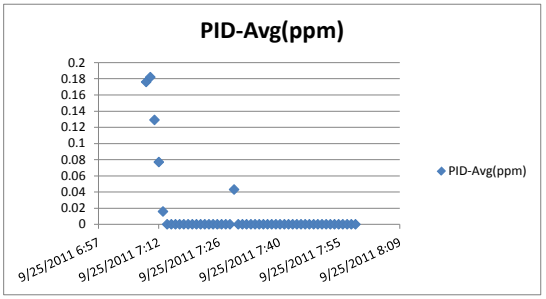
Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #30 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/25/2011 7:09	0.176	0.007	0.224
2	9/25/2011 7:10	0.182	0.156	0.213
3	9/25/2011 7:11	0.129	0.098	0.169
4	9/25/2011 7:12	0.077	0.045	0.106
5	9/25/2011 7:13	0.016	0	0.056
6	9/25/2011 7:14	0	0	0
7	9/25/2011 7:15	0	0	0
8	9/25/2011 7:16	0	0	0
9	9/25/2011 7:17	0	0	0
10	9/25/2011 7:18	0	0	0
11	9/25/2011 7:19	0	0	0
12	9/25/2011 7:20	0	0	0
13	9/25/2011 7:21	0	0	0
14	9/25/2011 7:22	0	0	0
15	9/25/2011 7:23	0	0	0
16	9/25/2011 7:24	0	0	0
17	9/25/2011 7:25	0	0	0
18	9/25/2011 7:26	0	0	0
19	9/25/2011 7:27	0	0	0
20	9/25/2011 7:28	0	0	0
21	9/25/2011 7:29	0	0	0
22	9/25/2011 7:30	0.043	0	0.646
23	9/25/2011 7:31	0	0	0
24	9/25/2011 7:32	0	0	0
25	9/25/2011 7:33	0	0	0
26	9/25/2011 7:34	0	0	0
27	9/25/2011 7:35	0	0	0
28	9/25/2011 7:36	0	0	0
29	9/25/2011 7:37	0	0	0
30	9/25/2011 7:38	0	0	0
31	9/25/2011 7:39	0	0	0
32	9/25/2011 7:40	0	0	0
33	9/25/2011 7:41	0	0	0
34	9/25/2011 7:42	0	0	0
35	9/25/2011 7:43	0	0	0
36	9/25/2011 7:44	0	0	0
37	9/25/2011 7:45	0	0	0
38	9/25/2011 7:46	0	0	0
39	9/25/2011 7:47	0	0	0
40	9/25/2011 7:48	0	0	0
41	9/25/2011 7:49	0	0	0
42	9/25/2011 7:50	0	0	0
43	9/25/2011 7:51	0	0	0
44	9/25/2011 7:52	0	0	0
45	9/25/2011 7:53	0	0	0
46	9/25/2011 7:54	0	0	0
47	9/25/2011 7:55	0	0	0
48	9/25/2011 7:56	0	0	0
49	9/25/2011 7:57	0	0	0
50	9/25/2011 7:58	0	0	0
51	9/25/2011 7:59	0	0	0

==========Event #30 information (end)==========



Calibration Time : 2011-09-25 07:05:002011-09-25 07:05:002011-09-25 07:05:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

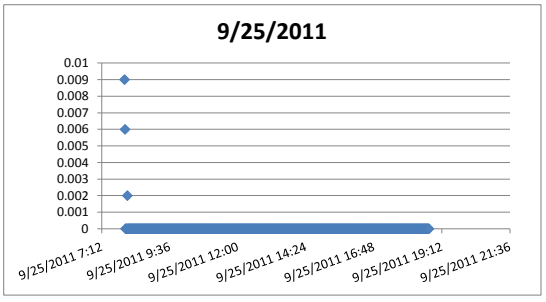
Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #31 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/25/2011 8:01	0.009	0	0.047
2	9/25/2011 8:02	0.006	0	0.023
3	9/25/2011 8:03	0	0	0
4	9/25/2011 8:04	0	0	0
5	9/25/2011 8:05	0	0	0
6	9/25/2011 8:06	0	0	0.005



7	9/25/2011 8:07	0.002	0	0.014
8	9/25/2011 8:08	0	0	0
9	9/25/2011 8:09	0	0	0
10	9/25/2011 8:10	0	0	0
11	9/25/2011 8:11	0	0	0
12	9/25/2011 8:12	0	0	0
13	9/25/2011 8:13	0	0	0
14	9/25/2011 8:14	0	0	0
15	9/25/2011 8:15	0	0	0
16	9/25/2011 8:16	0	0	0
17	9/25/2011 8:17	0	0	0
18	9/25/2011 8:18	0	0	0
19	9/25/2011 8:19	0	0	0
20	9/25/2011 8:20	0	0	0
21	9/25/2011 8:21	0	0	0
22	9/25/2011 8:22	0	0	0
23	9/25/2011 8:23	0	0	0
24	9/25/2011 8:24	0	0	0
25	9/25/2011 8:25	0	0	0
26	9/25/2011 8:26	0	0	0
27	9/25/2011 8:27	0	0	0
28	9/25/2011 8:28	0	0	0
29	9/25/2011 8:29	0	0	0
30	9/25/2011 8:30	0	0	0
31	9/25/2011 8:31	0	0	0
32	9/25/2011 8:32	0	0	0
33	9/25/2011 8:33	0	0	0
34	9/25/2011 8:34	0	0	0
35	9/25/2011 8:35	0	0	0
36	9/25/2011 8:36	0	0	0
37	9/25/2011 8:37	0	0	0
38	9/25/2011 8:38	0	0	0
39	9/25/2011 8:39	0	0	0
40	9/25/2011 8:40	0	0	0
41	9/25/2011 8:41	0	0	0
42	9/25/2011 8:42	0	0	0
43	9/25/2011 8:43	0	0	0
44	9/25/2011 8:44	0	0	0
45	9/25/2011 8:45	0	0	0
46	9/25/2011 8:46	0	0	0
47	9/25/2011 8:47	0	0	0
48	9/25/2011 8:48	0	0	0
49	9/25/2011 8:49	0	0	0
50	9/25/2011 8:50	0	0	0
51	9/25/2011 8:51	0	0	0
52	9/25/2011 8:52	0	0	0
53	9/25/2011 8:53	0	0	0
54	9/25/2011 8:54	0	0	0
55	9/25/2011 8:55	0	0	0
56	9/25/2011 8:56	0	0	0
57	9/25/2011 8:57	0	0	0
58	9/25/2011 8:58	0	0	0
59	9/25/2011 8:59	0	0	0
60	9/25/2011 9:00	0	0	0
61	9/25/2011 9:01	0	0	0
62	9/25/2011 9:02	0	0	0
63	9/25/2011 9:03	0	0	0
64	9/25/2011 9:04	0	0	0
65	9/25/2011 9:05	0	0	0
66	9/25/2011 9:06	0	0	0
67	9/25/2011 9:07	0	0	0
68	9/25/2011 9:08	0	0	0
69	9/25/2011 9:09	0	0	0
70	9/25/2011 9:10	0	0	0
71	9/25/2011 9:11	0	0	0
72	9/25/2011 9:12	0	0	0
73	9/25/2011 9:13	0	0	0
74	9/25/2011 9:14	0	0	0
75	9/25/2011 9:15	0	0	0
76	9/25/2011 9:16	0	0	0
77	9/25/2011 9:17	0	0	0
78	9/25/2011 9:18	0	0	0
79	9/25/2011 9:19	0	0	0
80	9/25/2011 9:20	0	0	0
81	9/25/2011 9:21	0	0	0
82	9/25/2011 9:22	0	0	0
83	9/25/2011 9:23	0	0	0
84	9/25/2011 9:24	0	0	0
85	9/25/2011 9:25	0	0	0
86	9/25/2011 9:26	0	0	0
87	9/25/2011 9:27	0	0	0
88	9/25/2011 9:28	0	0	0
89	9/25/2011 9:29	0	0	0
90	9/25/2011 9:30	0	0	0
91	9/25/2011 9:31	0	0	0
92	9/25/2011 9:32	0	0	0
93	9/25/2011 9:33	0	0	0
94	9/25/2011 9:34	0	0	0
95	9/25/2011 9:35	0	0	0
96	9/25/2011 9:36	0	0	0

97	9/25/2011 9:37	0	0	0
98	9/25/2011 9:38	0	0	0
99	9/25/2011 9:39	0	0	0
100	9/25/2011 9:40	0	0	0
101	9/25/2011 9:41	0	0	0
102	9/25/2011 9:42	0	0	0
103	9/25/2011 9:43	0	0	0
104	9/25/2011 9:44	0	0	0
105	9/25/2011 9:45	0	0	0
106	9/25/2011 9:46	0	0	0
107	9/25/2011 9:47	0	0	0
108	9/25/2011 9:48	0	0	0
109	9/25/2011 9:49	0	0	0
110	9/25/2011 9:50	0	0	0
111	9/25/2011 9:51	0	0	0
112	9/25/2011 9:52	0	0	0
113	9/25/2011 9:53	0	0	0
114	9/25/2011 9:54	0	0	0
115	9/25/2011 9:55	0	0	0
116	9/25/2011 9:56	0	0	0
117	9/25/2011 9:57	0	0	0
118	9/25/2011 9:58	0	0	0
119	9/25/2011 9:59	0	0	0
120	9/25/2011 10:00	0	0	0
121	9/25/2011 10:01	0	0	0
122	9/25/2011 10:02	0	0	0
123	9/25/2011 10:03	0	0	0
124	9/25/2011 10:04	0	0	0
125	9/25/2011 10:05	0	0	0
126	9/25/2011 10:06	0	0	0
127	9/25/2011 10:07	0	0	0
128	9/25/2011 10:08	0	0	0
129	9/25/2011 10:09	0	0	0
130	9/25/2011 10:10	0	0	0
131	9/25/2011 10:11	0	0	0
132	9/25/2011 10:12	0	0	0
133	9/25/2011 10:13	0	0	0
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584	9/25/2011 17:44	0	0	0
585	9/25/2011 17:45	0	0	0
586	9/25/2011 17:46	0	0	0
587	9/25/2011 17:47	0	0	0
588	9/25/2011 17:48	0	0	0
589	9/25/2011 17:49	0	0	0
590	9/25/2011 17:50	0	0	0
591	9/25/2011 17:51	0	0	0
592	9/25/2011 17:52	0	0	0
593	9/25/2011 17:53	0	0	0
594	9/25/2011 17:54	0	0	0
595	9/25/2011 17:55	0	0	0
596	9/25/2011 17:56	0	0	0
597	9/25/2011 17:57	0	0	0
598	9/25/2011 17:58	0	0	0
599	9/25/2011 17:59	0	0	0
600	9/25/2011 18:00	0	0	0
601	9/25/2011 18:01	0	0	0
602	9/25/2011 18:02	0	0	0
603	9/25/2011 18:03	0	0	0
604	9/25/2011 18:04	0	0	0
605	9/25/2011 18:05	0	0	0
606	9/25/2011 18:06	0	0	0
607	9/25/2011 18:07	0	0	0
608	9/25/2011 18:08	0	0	0
609	9/25/2011 18:09	0	0	0
610	9/25/2011 18:10	0	0	0
611	9/25/2011 18:11	0	0	0
612	9/25/2011 18:12	0	0	0
613	9/25/2011 18:13	0	0	0
614	9/25/2011 18:14	0	0	0
615	9/25/2011 18:15	0	0	0
616	9/25/2011 18:16	0	0	0
617	9/25/2011 18:17	0	0	0
618	9/25/2011 18:18	0	0	0
619	9/25/2011 18:19	0	0	0
620	9/25/2011 18:20	0	0	0
621	9/25/2011 18:21	0	0	0
622	9/25/2011 18:22	0	0	0
623	9/25/2011 18:23	0	0	0
624	9/25/2011 18:24	0	0	0
625	9/25/2011 18:25	0	0	0
626	9/25/2011 18:26	0	0	0
627	9/25/2011 18:27	0	0	0
628	9/25/2011 18:28	0	0	0
629	9/25/2011 18:29	0	0	0
630	9/25/2011 18:30	0	0	0
631	9/25/2011 18:31	0	0	0
632	9/25/2011 18:32	0	0	0
633	9/25/2011 18:33	0	0	0
634	9/25/2011 18:34	0	0	0
635	9/25/2011 18:35	0	0	0
636	9/25/2011 18:36	0	0	0

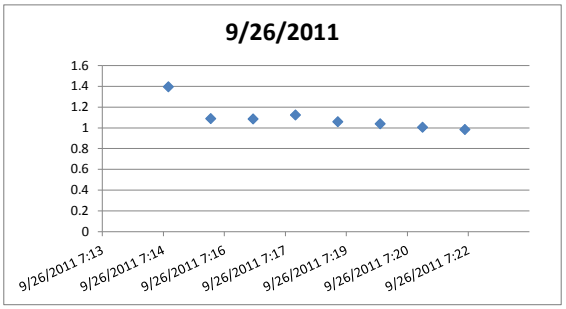
637	9/25/2011 18:37	0	0	0
638	9/25/2011 18:38	0	0	0
639	9/25/2011 18:39	0	0	0
640	9/25/2011 18:40	0	0	0
641	9/25/2011 18:41	0	0	0
642	9/25/2011 18:42	0	0	0
643	9/25/2011 18:43	0	0	0
644	9/25/2011 18:44	0	0	0
645	9/25/2011 18:45	0	0	0

==========Event #31 information (end)==========

=========Event #32 information (begin)=========
==========
[Event #32 name:]--[Event #32]2011-09-26 07:14<-->2011-09-26 07:22
[Event start time:]--2011-09-26 07:14:59[Event end time:]--2011-09-26 07:22:59
==========Event #32 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 8 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-09-25 07:05:002011-09-25 07:05:002011-09-25 07:05:00
Drift Value : --- --- ---
Low Alarm Levels : 50.000 50.000 50.000
High Alarm Levels : 100.000 100.000 100.000
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #32 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/26/2011 7:15	1.393	0.393	1.63
2	9/26/2011 7:16	1.087	0.799	1.379
3	9/26/2011 7:17	1.084	0.829	1.253
4	9/26/2011 7:18	1.123	1.042	1.28
5	9/26/2011 7:19	1.058	0.997	1.127
6	9/26/2011 7:20	1.037	0.979	1.097
7	9/26/2011 7:21	1.005	0.946	1.103
8	9/26/2011 7:22	0.982	0.931	1.098

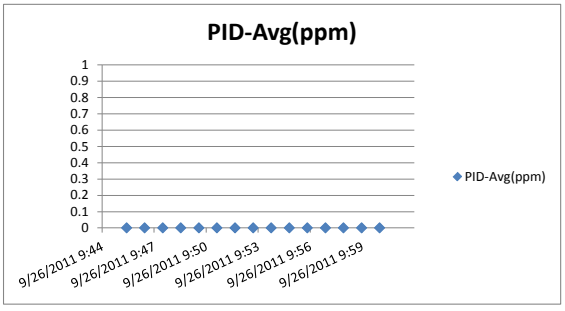
==========Event #32 information (end)==========



=========Event #34 information (begin)=========
==========
[Event #34 name:]--[Event #34]2011-09-26 09:45<-->2011-09-26 10:00
[Event start time:]--2011-09-26 09:45:06[Event end time:]--2011-09-26 10:00:06
==========Event #34 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 15 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-09-26 07:31:002011-09-26 07:31:002011-09-26 07:31:00
Drift Value : --- --- ---
Low Alarm Levels : 50.000 50.000 50.000
High Alarm Levels : 100.000 100.000 100.000
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #34 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/26/2011 9:46	0	0	0
2	9/26/2011 9:47	0	0	0
3	9/26/2011 9:48	0	0	0
4	9/26/2011 9:49	0	0	0
5	9/26/2011 9:50	0	0	0
6	9/26/2011 9:51	0	0	0
7	9/26/2011 9:52	0	0	0
8	9/26/2011 9:53	0	0	0
9	9/26/2011 9:54	0	0	0
10	9/26/2011 9:55	0	0	0
11	9/26/2011 9:56	0	0	0
12	9/26/2011 9:57	0	0	0
13	9/26/2011 9:58	0	0	0
14	9/26/2011 9:59	0	0	0
15	9/26/2011 10:00	0	0	0

==========Event #34 information (end)==========

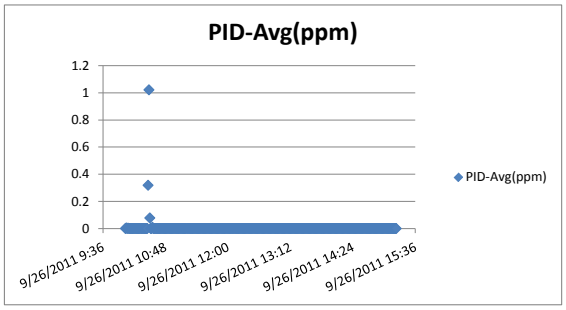


=========Event #35 information (begin)=========
==========
[Event #35 name:]--[Event #35]2011-09-26 10:01<-->2011-09-26 15:14
[Event start time:]--2011-09-26 10:01:29[Event end time:]--2011-09-26 15:14:29
==========Event #35 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 313 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-09-26 07:31:002011-09-26 07:31:002011-09-26 07:31:00
Drift Value : --- --- ---
Low Alarm Levels : 50.000 50.000 50.000
High Alarm Levels : 100.000 100.000 100.000

Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #35 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/26/2011 10:02	0	0	0
2	9/26/2011 10:03	0.005	0	0.038
3	9/26/2011 10:04	0	0	0
4	9/26/2011 10:05	0.003	0	0.03
5	9/26/2011 10:06	0	0	0
6	9/26/2011 10:07	0	0	0
7	9/26/2011 10:08	0	0	0
8	9/26/2011 10:09	0	0	0
9	9/26/2011 10:10	0	0	0
10	9/26/2011 10:11	0	0	0
11	9/26/2011 10:12	0	0	0
12	9/26/2011 10:13	0	0	0
13	9/26/2011 10:14	0	0	0
14	9/26/2011 10:15	0	0	0
15	9/26/2011 10:16	0	0	0
16	9/26/2011 10:17	0	0	0
17	9/26/2011 10:18	0	0	0
18	9/26/2011 10:19	0	0	0
19	9/26/2011 10:20	0	0	0
20	9/26/2011 10:21	0	0	0
21	9/26/2011 10:22	0	0	0
22	9/26/2011 10:23	0	0	0
23	9/26/2011 10:24	0	0	0
24	9/26/2011 10:25	0	0	0
25	9/26/2011 10:26	0	0	0
26	9/26/2011 10:27	0	0	0
27	9/26/2011 10:28	0.319	0	0.98
28	9/26/2011 10:29	1.021	0.44	1.596
29	9/26/2011 10:30	0.078	0	0.427
30	9/26/2011 10:31	0	0	0
31	9/26/2011 10:32	0	0	0
32	9/26/2011 10:33	0.01	0	0.079
33	9/26/2011 10:34	0	0	0
34	9/26/2011 10:35	0	0	0
35	9/26/2011 10:36	0	0	0
36	9/26/2011 10:37	0	0	0
37	9/26/2011 10:38	0	0	0
38	9/26/2011 10:39	0	0	0
39	9/26/2011 10:40	0	0	0
40	9/26/2011 10:41	0	0	0
41	9/26/2011 10:42	0	0	0
42	9/26/2011 10:43	0	0	0
43	9/26/2011 10:44	0	0	0
44	9/26/2011 10:45	0	0	0
45	9/26/2011 10:46	0	0	0
46	9/26/2011 10:47	0	0	0
47	9/26/2011 10:48	0	0	0
48	9/26/2011 10:49	0	0	0
49	9/26/2011 10:50	0	0	0
50	9/26/2011 10:51	0	0	0
51	9/26/2011 10:52	0	0	0
52	9/26/2011 10:53	0	0	0
53	9/26/2011 10:54	0	0	0
54	9/26/2011 10:55	0	0	0
55	9/26/2011 10:56	0	0	0
56	9/26/2011 10:57	0	0	0
57	9/26/2011 10:58	0	0	0
58	9/26/2011 10:59	0	0	0
59	9/26/2011 11:00	0	0	0
60	9/26/2011 11:01	0	0	0
61	9/26/2011 11:02	0	0	0
62	9/26/2011 11:03	0	0	0
63	9/26/2011 11:04	0	0	0
64	9/26/2011 11:05	0	0	0
65	9/26/2011 11:06	0	0	0
66	9/26/2011 11:07	0	0	0
67	9/26/2011 11:08	0	0	0
68	9/26/2011 11:09	0	0	0
69	9/26/2011 11:10	0	0	0
70	9/26/2011 11:11	0	0	0
71	9/26/2011 11:12	0	0	0
72	9/26/2011 11:13	0	0	0
73	9/26/2011 11:14	0	0	0
74	9/26/2011 11:15	0	0	0
75	9/26/2011 11:16	0	0	0
76	9/26/2011 11:17	0	0	0
77	9/26/2011 11:18	0	0	0
78	9/26/2011 11:19	0	0	0
79	9/26/2011 11:20	0	0	0
80	9/26/2011 11:21	0	0	0
81	9/26/2011 11:22	0	0	0
82	9/26/2011 11:23	0	0	0



83	9/26/2011 11:24	0	0	0
84	9/26/2011 11:25	0	0	0
85	9/26/2011 11:26	0	0	0
86	9/26/2011 11:27	0	0	0
87	9/26/2011 11:28	0	0	0
88	9/26/2011 11:29	0	0	0
89	9/26/2011 11:30	0	0	0
90	9/26/2011 11:31	0	0	0
91	9/26/2011 11:32	0	0	0
92	9/26/2011 11:33	0	0	0
93	9/26/2011 11:34	0	0	0
94	9/26/2011 11:35	0	0	0
95	9/26/2011 11:36	0	0	0
96	9/26/2011 11:37	0	0	0
97	9/26/2011 11:38	0	0	0
98	9/26/2011 11:39	0	0	0
99	9/26/2011 11:40	0	0	0
100	9/26/2011 11:41	0	0	0
101	9/26/2011 11:42	0	0	0
102	9/26/2011 11:43	0	0	0
103	9/26/2011 11:44	0	0	0
104	9/26/2011 11:45	0	0	0
105	9/26/2011 11:46	0	0	0
106	9/26/2011 11:47	0	0	0
107	9/26/2011 11:48	0	0	0
108	9/26/2011 11:49	0	0	0
109	9/26/2011 11:50	0	0	0
110	9/26/2011 11:51	0	0	0
111	9/26/2011 11:52	0	0	0
112	9/26/2011 11:53	0	0	0
113	9/26/2011 11:54	0	0	0
114	9/26/2011 11:55	0	0	0
115	9/26/2011 11:56	0	0	0
116	9/26/2011 11:57	0	0	0
117	9/26/2011 11:58	0	0	0
118	9/26/2011 11:59	0	0	0
119	9/26/2011 12:00	0	0	0
120	9/26/2011 12:01	0	0	0
121	9/26/2011 12:02	0	0	0
122	9/26/2011 12:03	0	0	0
123	9/26/2011 12:04	0	0	0
124	9/26/2011 12:05	0	0	0
125	9/26/2011 12:06	0	0	0
126	9/26/2011 12:07	0	0	0
127	9/26/2011 12:08	0	0	0
128	9/26/2011 12:09	0	0	0
129	9/26/2011 12:10	0	0	0
130	9/26/2011 12:11	0	0	0
131	9/26/2011 12:12	0	0	0
132	9/26/2011 12:13	0	0	0
133	9/26/2011 12:14	0	0	0
134	9/26/2011 12:15	0	0	0
135	9/26/2011 12:16	0	0	0
136	9/26/2011 12:17	0	0	0
137	9/26/2011 12:18	0	0	0
138	9/26/2011 12:19	0	0	0
139	9/26/2011 12:20	0	0	0
140	9/26/2011 12:21	0	0	0
141	9/26/2011 12:22	0	0	0
142	9/26/2011 12:23	0	0	0
143	9/26/2011 12:24	0	0	0
144	9/26/2011 12:25	0	0	0
145	9/26/2011 12:26	0	0	0
146	9/26/2011 12:27	0	0	0
147	9/26/2011 12:28	0	0	0
148	9/26/2011 12:29	0	0	0
149	9/26/2011 12:30	0	0	0
150	9/26/2011 12:31	0	0	0
151	9/26/2011 12:32	0	0	0
152	9/26/2011 12:33	0	0	0
153	9/26/2011 12:34	0	0	0
154	9/26/2011 12:35	0	0	0
155	9/26/2011 12:36	0	0	0
156	9/26/2011 12:37	0	0	0
157	9/26/2011 12:38	0	0	0
158	9/26/2011 12:39	0	0	0
159	9/26/2011 12:40	0	0	0
160	9/26/2011 12:41	0	0	0
161	9/26/2011 12:42	0	0	0
162	9/26/2011 12:43	0	0	0
163	9/26/2011 12:44	0	0	0
164	9/26/2011 12:45	0	0	0
165	9/26/2011 12:46	0	0	0
166	9/26/2011 12:47	0	0	0
167	9/26/2011 12:48	0	0	0
168	9/26/2011 12:49	0	0	0
169	9/26/2011 12:50	0	0	0

170	9/26/2011 12:51	0	0	0
171	9/26/2011 12:52	0	0	0
172	9/26/2011 12:53	0	0	0
173	9/26/2011 12:54	0	0	0
174	9/26/2011 12:55	0	0	0
175	9/26/2011 12:56	0	0	0
176	9/26/2011 12:57	0	0	0
177	9/26/2011 12:58	0	0	0
178	9/26/2011 12:59	0	0	0
179	9/26/2011 13:00	0	0	0
180	9/26/2011 13:01	0	0	0
181	9/26/2011 13:02	0	0	0
182	9/26/2011 13:03	0	0	0
183	9/26/2011 13:04	0	0	0
184	9/26/2011 13:05	0	0	0
185	9/26/2011 13:06	0	0	0
186	9/26/2011 13:07	0	0	0
187	9/26/2011 13:08	0	0	0
188	9/26/2011 13:09	0	0	0
189	9/26/2011 13:10	0	0	0
190	9/26/2011 13:11	0	0	0
191	9/26/2011 13:12	0	0	0
192	9/26/2011 13:13	0	0	0
193	9/26/2011 13:14	0	0	0
194	9/26/2011 13:15	0	0	0
195	9/26/2011 13:16	0	0	0
196	9/26/2011 13:17	0	0	0
197	9/26/2011 13:18	0	0	0
198	9/26/2011 13:19	0	0	0
199	9/26/2011 13:20	0	0	0
200	9/26/2011 13:21	0	0	0
201	9/26/2011 13:22	0	0	0
202	9/26/2011 13:23	0	0	0
203	9/26/2011 13:24	0	0	0
204	9/26/2011 13:25	0	0	0
205	9/26/2011 13:26	0	0	0
206	9/26/2011 13:27	0	0	0
207	9/26/2011 13:28	0	0	0
208	9/26/2011 13:29	0	0	0
209	9/26/2011 13:30	0	0	0
210	9/26/2011 13:31	0	0	0
211	9/26/2011 13:32	0	0	0
212	9/26/2011 13:33	0	0	0
213	9/26/2011 13:34	0	0	0
214	9/26/2011 13:35	0	0	0
215	9/26/2011 13:36	0	0	0
216	9/26/2011 13:37	0	0	0
217	9/26/2011 13:38	0	0	0
218	9/26/2011 13:39	0	0	0
219	9/26/2011 13:40	0	0	0
220	9/26/2011 13:41	0	0	0
221	9/26/2011 13:42	0	0	0
222	9/26/2011 13:43	0	0	0
223	9/26/2011 13:44	0	0	0
224	9/26/2011 13:45	0	0	0
225	9/26/2011 13:46	0	0	0
226	9/26/2011 13:47	0	0	0
227	9/26/2011 13:48	0	0	0
228	9/26/2011 13:49	0	0	0
229	9/26/2011 13:50	0	0	0
230	9/26/2011 13:51	0	0	0
231	9/26/2011 13:52	0	0	0
232	9/26/2011 13:53	0	0	0
233	9/26/2011 13:54	0	0	0
234	9/26/2011 13:55	0	0	0
235	9/26/2011 13:56	0	0	0
236	9/26/2011 13:57	0	0	0
237	9/26/2011 13:58	0	0	0
238	9/26/2011 13:59	0	0	0
239	9/26/2011 14:00	0	0	0
240	9/26/2011 14:01	0	0	0
241	9/26/2011 14:02	0	0	0
242	9/26/2011 14:03	0	0	0
243	9/26/2011 14:04	0	0	0
244	9/26/2011 14:05	0	0	0
245	9/26/2011 14:06	0	0	0
246	9/26/2011 14:07	0	0	0
247	9/26/2011 14:08	0	0	0
248	9/26/2011 14:09	0	0	0
249	9/26/2011 14:10	0	0	0
250	9/26/2011 14:11	0	0	0
251	9/26/2011 14:12	0	0	0
252	9/26/2011 14:13	0	0	0
253	9/26/2011 14:14	0	0	0
254	9/26/2011 14:15	0	0	0
255	9/26/2011 14:16	0	0	0
256	9/26/2011 14:17	0	0	0

257	9/26/2011 14:18	0	0	0
258	9/26/2011 14:19	0	0	0
259	9/26/2011 14:20	0	0	0
260	9/26/2011 14:21	0	0	0
261	9/26/2011 14:22	0	0	0
262	9/26/2011 14:23	0	0	0
263	9/26/2011 14:24	0	0	0
264	9/26/2011 14:25	0	0	0
265	9/26/2011 14:26	0	0	0
266	9/26/2011 14:27	0	0	0
267	9/26/2011 14:28	0	0	0
268	9/26/2011 14:29	0	0	0
269	9/26/2011 14:30	0	0	0
270	9/26/2011 14:31	0	0	0
271	9/26/2011 14:32	0	0	0
272	9/26/2011 14:33	0	0	0
273	9/26/2011 14:34	0	0	0
274	9/26/2011 14:35	0	0	0
275	9/26/2011 14:36	0	0	0
276	9/26/2011 14:37	0	0	0
277	9/26/2011 14:38	0	0	0
278	9/26/2011 14:39	0	0	0
279	9/26/2011 14:40	0	0	0
280	9/26/2011 14:41	0	0	0
281	9/26/2011 14:42	0	0	0
282	9/26/2011 14:43	0	0	0
283	9/26/2011 14:44	0	0	0
284	9/26/2011 14:45	0	0	0
285	9/26/2011 14:46	0	0	0
286	9/26/2011 14:47	0	0	0
287	9/26/2011 14:48	0	0	0
288	9/26/2011 14:49	0	0	0
289	9/26/2011 14:50	0	0	0
290	9/26/2011 14:51	0	0	0
291	9/26/2011 14:52	0	0	0
292	9/26/2011 14:53	0	0	0
293	9/26/2011 14:54	0	0	0
294	9/26/2011 14:55	0	0	0
295	9/26/2011 14:56	0	0	0
296	9/26/2011 14:57	0	0	0
297	9/26/2011 14:58	0	0	0
298	9/26/2011 14:59	0	0	0
299	9/26/2011 15:00	0	0	0
300	9/26/2011 15:01	0	0	0
301	9/26/2011 15:02	0	0	0
302	9/26/2011 15:03	0	0	0
303	9/26/2011 15:04	0	0	0
304	9/26/2011 15:05	0	0	0
305	9/26/2011 15:06	0	0	0
306	9/26/2011 15:07	0	0	0
307	9/26/2011 15:08	0	0	0
308	9/26/2011 15:09	0	0	0
309	9/26/2011 15:10	0	0	0
310	9/26/2011 15:11	0	0	0
311	9/26/2011 15:12	0	0	0
312	9/26/2011 15:13	0	0	0
313	9/26/2011 15:14	0	0	0

==========Event #35 information (end)==========

==========Event #2 information (begin)==========

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[Event #2 name:]--[Event #2]2011-09-27 09:25<-->2011-09-27 15:03

[Event start time:]--2011-09-27 09:25:02[Event end time:]--2011-09-27 15:03:02

==========Event #2 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 338 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

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Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-09-27 08:36:002011-09-27 08:36:002011-09-27 08:36:00

Drift Value : --- --- ---

Low Alarm Levels : 50.000 50.000 50.000

High Alarm Levels : 100.000 100.000 100.000

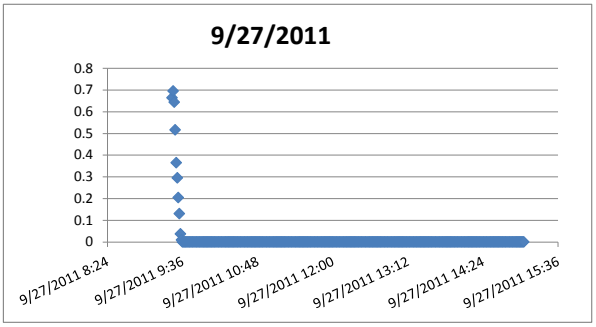
Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #2 data informations==========

LINE#	Date/Time	PID-Avg(ppm)	PID-Min(ppm)	PID-Max(ppm)
1	9/27/2011 9:26	0.664	0.203	0.731
2	9/27/2011 9:27	0.695	0.647	0.762
3	9/27/2011 9:28	0.644	0.592	0.713
4	9/27/2011 9:29	0.516	0.422	0.595
5	9/27/2011 9:30	0.365	0.315	0.43
6	9/27/2011 9:31	0.295	0.154	0.407
7	9/27/2011 9:32	0.204	0.155	0.283
8	9/27/2011 9:33	0.13	0.089	0.185
9	9/27/2011 9:34	0.037	0	0.114
10	9/27/2011 9:35	0.009	0	0.036
11	9/27/2011 9:36	0	0	0
12	9/27/2011 9:37	0	0	0
13	9/27/2011 9:38	0	0	0
14	9/27/2011 9:39	0	0	0
15	9/27/2011 9:40	0	0	0
16	9/27/2011 9:41	0	0	0
17	9/27/2011 9:42	0	0	0
18	9/27/2011 9:43	0	0	0
19	9/27/2011 9:44	0	0	0
20	9/27/2011 9:45	0	0	0
21	9/27/2011 9:46	0	0	0
22	9/27/2011 9:47	0	0	0
23	9/27/2011 9:48	0	0	0
24	9/27/2011 9:49	0	0	0
25	9/27/2011 9:50	0	0	0
26	9/27/2011 9:51	0	0	0
27	9/27/2011 9:52	0	0	0
28	9/27/2011 9:53	0	0	0
29	9/27/2011 9:54	0	0	0
30	9/27/2011 9:55	0	0	0
31	9/27/2011 9:56	0	0	0
32	9/27/2011 9:57	0	0	0
33	9/27/2011 9:58	0	0	0
34	9/27/2011 9:59	0	0	0
35	9/27/2011 10:00	0	0	0
36	9/27/2011 10:01	0	0	0
37	9/27/2011 10:02	0	0	0
38	9/27/2011 10:03	0	0	0
39	9/27/2011 10:04	0	0	0
40	9/27/2011 10:05	0	0	0
41	9/27/2011 10:06	0	0	0
42	9/27/2011 10:07	0	0	0
43	9/27/2011 10:08	0	0	0
44	9/27/2011 10:09	0	0	0
45	9/27/2011 10:10	0	0	0
46	9/27/2011 10:11	0	0	0
47	9/27/2011 10:12	0	0	0
48	9/27/2011 10:13	0	0	0
49	9/27/2011 10:14	0	0	0
50	9/27/2011 10:15	0	0	0
51	9/27/2011 10:16	0	0	0
52	9/27/2011 10:17	0	0	0
53	9/27/2011 10:18	0	0	0
54	9/27/2011 10:19	0	0	0
55	9/27/2011 10:20	0	0	0
56	9/27/2011 10:21	0	0	0
57	9/27/2011 10:22	0	0	0
58	9/27/2011 10:23	0	0	0
59	9/27/2011 10:24	0	0	0
60	9/27/2011 10:25	0	0	0
61	9/27/2011 10:26	0	0	0



62	9/27/2011 10:27	0	0	0
63	9/27/2011 10:28	0	0	0
64	9/27/2011 10:29	0	0	0
65	9/27/2011 10:30	0	0	0
66	9/27/2011 10:31	0	0	0
67	9/27/2011 10:32	0	0	0
68	9/27/2011 10:33	0	0	0
69	9/27/2011 10:34	0	0	0
70	9/27/2011 10:35	0	0	0
71	9/27/2011 10:36	0	0	0
72	9/27/2011 10:37	0	0	0
73	9/27/2011 10:38	0	0	0
74	9/27/2011 10:39	0	0	0
75	9/27/2011 10:40	0	0	0
76	9/27/2011 10:41	0	0	0
77	9/27/2011 10:42	0	0	0
78	9/27/2011 10:43	0	0	0
79	9/27/2011 10:44	0	0	0
80	9/27/2011 10:45	0	0	0
81	9/27/2011 10:46	0	0	0
82	9/27/2011 10:47	0	0	0
83	9/27/2011 10:48	0	0	0
84	9/27/2011 10:49	0	0	0
85	9/27/2011 10:50	0	0	0
86	9/27/2011 10:51	0	0	0
87	9/27/2011 10:52	0	0	0
88	9/27/2011 10:53	0	0	0
89	9/27/2011 10:54	0	0	0
90	9/27/2011 10:55	0	0	0
91	9/27/2011 10:56	0	0	0
92	9/27/2011 10:57	0	0	0
93	9/27/2011 10:58	0	0	0
94	9/27/2011 10:59	0	0	0
95	9/27/2011 11:00	0	0	0
96	9/27/2011 11:01	0	0	0
97	9/27/2011 11:02	0	0	0
98	9/27/2011 11:03	0	0	0
99	9/27/2011 11:04	0	0	0
100	9/27/2011 11:05	0	0	0
101	9/27/2011 11:06	0	0	0
102	9/27/2011 11:07	0	0	0
103	9/27/2011 11:08	0	0	0
104	9/27/2011 11:09	0	0	0
105	9/27/2011 11:10	0	0	0
106	9/27/2011 11:11	0	0	0
107	9/27/2011 11:12	0	0	0
108	9/27/2011 11:13	0	0	0
109	9/27/2011 11:14	0	0	0
110	9/27/2011 11:15	0	0	0
111	9/27/2011 11:16	0	0	0
112	9/27/2011 11:17	0	0	0
113	9/27/2011 11:18	0	0	0
114	9/27/2011 11:19	0	0	0
115	9/27/2011 11:20	0	0	0
116	9/27/2011 11:21	0	0	0
117	9/27/2011 11:22	0	0	0
118	9/27/2011 11:23	0	0	0
119	9/27/2011 11:24	0	0	0
120	9/27/2011 11:25	0	0	0
121	9/27/2011 11:26	0	0	0
122	9/27/2011 11:27	0	0	0
123	9/27/2011 11:28	0	0	0
124	9/27/2011 11:29	0	0	0
125	9/27/2011 11:30	0	0	0
126	9/27/2011 11:31	0	0	0
127	9/27/2011 11:32	0	0	0
128	9/27/2011 11:33	0	0	0
129	9/27/2011 11:34	0	0	0
130	9/27/2011 11:35	0	0	0
131	9/27/2011 11:36	0	0	0
132	9/27/2011 11:37	0	0	0
133	9/27/2011 11:38	0	0	0
134	9/27/2011 11:39	0	0	0
135	9/27/2011 11:40	0	0	0
136	9/27/2011 11:41	0	0	0
137	9/27/2011 11:42	0	0	0
138	9/27/2011 11:43	0	0	0
139	9/27/2011 11:44	0	0	0
140	9/27/2011 11:45	0	0	0
141	9/27/2011 11:46	0	0	0
142	9/27/2011 11:47	0	0	0
143	9/27/2011 11:48	0	0	0

144	9/27/2011 11:49	0	0	0
145	9/27/2011 11:50	0	0	0
146	9/27/2011 11:51	0	0	0
147	9/27/2011 11:52	0	0	0
148	9/27/2011 11:53	0	0	0
149	9/27/2011 11:54	0	0	0
150	9/27/2011 11:55	0	0	0
151	9/27/2011 11:56	0	0	0
152	9/27/2011 11:57	0	0	0
153	9/27/2011 11:58	0	0	0
154	9/27/2011 11:59	0	0	0
155	9/27/2011 12:00	0	0	0
156	9/27/2011 12:01	0	0	0
157	9/27/2011 12:02	0	0	0
158	9/27/2011 12:03	0	0	0
159	9/27/2011 12:04	0	0	0
160	9/27/2011 12:05	0	0	0
161	9/27/2011 12:06	0	0	0
162	9/27/2011 12:07	0	0	0
163	9/27/2011 12:08	0	0	0
164	9/27/2011 12:09	0	0	0
165	9/27/2011 12:10	0	0	0
166	9/27/2011 12:11	0	0	0
167	9/27/2011 12:12	0	0	0
168	9/27/2011 12:13	0	0	0
169	9/27/2011 12:14	0	0	0
170	9/27/2011 12:15	0	0	0
171	9/27/2011 12:16	0	0	0
172	9/27/2011 12:17	0	0	0
173	9/27/2011 12:18	0	0	0
174	9/27/2011 12:19	0	0	0
175	9/27/2011 12:20	0	0	0
176	9/27/2011 12:21	0	0	0
177	9/27/2011 12:22	0	0	0
178	9/27/2011 12:23	0	0	0
179	9/27/2011 12:24	0	0	0
180	9/27/2011 12:25	0	0	0
181	9/27/2011 12:26	0	0	0
182	9/27/2011 12:27	0	0	0
183	9/27/2011 12:28	0	0	0
184	9/27/2011 12:29	0	0	0
185	9/27/2011 12:30	0	0	0
186	9/27/2011 12:31	0	0	0
187	9/27/2011 12:32	0	0	0
188	9/27/2011 12:33	0	0	0
189	9/27/2011 12:34	0	0	0
190	9/27/2011 12:35	0	0	0
191	9/27/2011 12:36	0	0	0
192	9/27/2011 12:37	0	0	0
193	9/27/2011 12:38	0	0	0
194	9/27/2011 12:39	0	0	0
195	9/27/2011 12:40	0	0	0
196	9/27/2011 12:41	0	0	0
197	9/27/2011 12:42	0	0	0
198	9/27/2011 12:43	0	0	0
199	9/27/2011 12:44	0	0	0
200	9/27/2011 12:45	0	0	0
201	9/27/2011 12:46	0	0	0
202	9/27/2011 12:47	0	0	0
203	9/27/2011 12:48	0	0	0
204	9/27/2011 12:49	0	0	0
205	9/27/2011 12:50	0	0	0
206	9/27/2011 12:51	0	0	0
207	9/27/2011 12:52	0	0	0
208	9/27/2011 12:53	0	0	0
209	9/27/2011 12:54	0	0	0
210	9/27/2011 12:55	0	0	0
211	9/27/2011 12:56	0	0	0
212	9/27/2011 12:57	0	0	0
213	9/27/2011 12:58	0	0	0
214	9/27/2011 12:59	0	0	0
215	9/27/2011 13:00	0	0	0
216	9/27/2011 13:01	0	0	0
217	9/27/2011 13:02	0	0	0
218	9/27/2011 13:03	0	0	0
219	9/27/2011 13:04	0	0	0
220	9/27/2011 13:05	0	0	0
221	9/27/2011 13:06	0	0	0
222	9/27/2011 13:07	0	0	0
223	9/27/2011 13:08	0	0	0
224	9/27/2011 13:09	0	0	0
225	9/27/2011 13:10	0	0	0

226	9/27/2011 13:11	0	0	0
227	9/27/2011 13:12	0	0	0
228	9/27/2011 13:13	0	0	0
229	9/27/2011 13:14	0	0	0
230	9/27/2011 13:15	0	0	0
231	9/27/2011 13:16	0	0	0
232	9/27/2011 13:17	0	0	0
233	9/27/2011 13:18	0	0	0
234	9/27/2011 13:19	0	0	0
235	9/27/2011 13:20	0	0	0
236	9/27/2011 13:21	0	0	0
237	9/27/2011 13:22	0	0	0
238	9/27/2011 13:23	0	0	0
239	9/27/2011 13:24	0	0	0
240	9/27/2011 13:25	0	0	0
241	9/27/2011 13:26	0	0	0
242	9/27/2011 13:27	0	0	0
243	9/27/2011 13:28	0	0	0
244	9/27/2011 13:29	0	0	0
245	9/27/2011 13:30	0	0	0
246	9/27/2011 13:31	0	0	0
247	9/27/2011 13:32	0	0	0
248	9/27/2011 13:33	0	0	0
249	9/27/2011 13:34	0	0	0
250	9/27/2011 13:35	0	0	0
251	9/27/2011 13:36	0	0	0
252	9/27/2011 13:37	0	0	0
253	9/27/2011 13:38	0	0	0
254	9/27/2011 13:39	0	0	0
255	9/27/2011 13:40	0	0	0
256	9/27/2011 13:41	0	0	0
257	9/27/2011 13:42	0	0	0
258	9/27/2011 13:43	0	0	0
259	9/27/2011 13:44	0	0	0
260	9/27/2011 13:45	0	0	0
261	9/27/2011 13:46	0	0	0
262	9/27/2011 13:47	0	0	0
263	9/27/2011 13:48	0	0	0
264	9/27/2011 13:49	0	0	0
265	9/27/2011 13:50	0	0	0
266	9/27/2011 13:51	0	0	0
267	9/27/2011 13:52	0	0	0
268	9/27/2011 13:53	0	0	0
269	9/27/2011 13:54	0	0	0
270	9/27/2011 13:55	0	0	0
271	9/27/2011 13:56	0	0	0
272	9/27/2011 13:57	0	0	0
273	9/27/2011 13:58	0	0	0
274	9/27/2011 13:59	0	0	0
275	9/27/2011 14:00	0	0	0
276	9/27/2011 14:01	0	0	0
277	9/27/2011 14:02	0	0	0
278	9/27/2011 14:03	0	0	0
279	9/27/2011 14:04	0	0	0
280	9/27/2011 14:05	0	0	0
281	9/27/2011 14:06	0	0	0
282	9/27/2011 14:07	0	0	0
283	9/27/2011 14:08	0	0	0
284	9/27/2011 14:09	0	0	0
285	9/27/2011 14:10	0	0	0
286	9/27/2011 14:11	0	0	0
287	9/27/2011 14:12	0	0	0
288	9/27/2011 14:13	0	0	0
289	9/27/2011 14:14	0	0	0
290	9/27/2011 14:15	0	0	0
291	9/27/2011 14:16	0	0	0
292	9/27/2011 14:17	0	0	0
293	9/27/2011 14:18	0	0	0
294	9/27/2011 14:19	0	0	0
295	9/27/2011 14:20	0	0	0
296	9/27/2011 14:21	0	0	0
297	9/27/2011 14:22	0	0	0
298	9/27/2011 14:23	0	0	0
299	9/27/2011 14:24	0	0	0
300	9/27/2011 14:25	0	0	0
301	9/27/2011 14:26	0	0	0
302	9/27/2011 14:27	0	0	0
303	9/27/2011 14:28	0	0	0
304	9/27/2011 14:29	0	0	0
305	9/27/2011 14:30	0	0	0
306	9/27/2011 14:31	0	0	0
307	9/27/2011 14:32	0	0	0

308	9/27/2011 14:33	0	0	0
309	9/27/2011 14:34	0	0	0
310	9/27/2011 14:35	0	0	0
311	9/27/2011 14:36	0	0	0
312	9/27/2011 14:37	0	0	0
313	9/27/2011 14:38	0	0	0
314	9/27/2011 14:39	0	0	0
315	9/27/2011 14:40	0	0	0
316	9/27/2011 14:41	0	0	0
317	9/27/2011 14:42	0	0	0
318	9/27/2011 14:43	0	0	0
319	9/27/2011 14:44	0	0	0
320	9/27/2011 14:45	0	0	0
321	9/27/2011 14:46	0	0	0
322	9/27/2011 14:47	0	0	0
323	9/27/2011 14:48	0	0	0
324	9/27/2011 14:49	0	0	0
325	9/27/2011 14:50	0	0	0
326	9/27/2011 14:51	0	0	0
327	9/27/2011 14:52	0	0	0
328	9/27/2011 14:53	0	0	0
329	9/27/2011 14:54	0	0	0
330	9/27/2011 14:55	0	0	0
331	9/27/2011 14:56	0	0	0
332	9/27/2011 14:57	0	0	0
333	9/27/2011 14:58	0	0	0
334	9/27/2011 14:59	0	0	0
335	9/27/2011 15:00	0	0	0
336	9/27/2011 15:01	0	0	0
337	9/27/2011 15:02	0	0	0
338	9/27/2011 15:03	0	0	0

==========Event #2 information (end)==========

==========Event #6 information (begin)==========

[Event #6 name:]--[Event #6]2011-10-20 08:45<-->2011-10-20 11:31

[Event start time:]--2011-10-20 08:45:28[Event end time:]--2011-10-20 11:31:28

==========Event #6 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 166 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-20 08:45:002011-10-20 08:45:002011-10-20 08:45:00

Drift Value : --- --- ---

Low Alarm Levels : 21.738 21.738 21.738

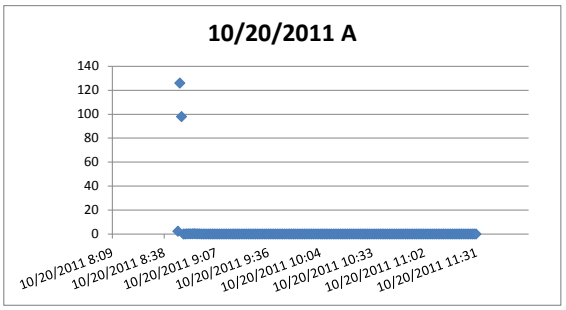
High Alarm Levels : 43.476 43.476 43.476

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #6 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/20/2011 8:46	2.254	0	0.076
2	10/20/2011 8:47	125.932	0	13.255
3	10/20/2011 8:48	97.923	0	3.845
4	10/20/2011 8:49	0	0	0
5	10/20/2011 8:50	0	0	0
6	10/20/2011 8:51	0.07	0	0.014
7	10/20/2011 8:52	0.089	0	0.053
8	10/20/2011 8:53	0.116	0	0.057
9	10/20/2011 8:54	0.113	0	0.072
10	10/20/2011 8:55	0.162	0.001	0.066
11	10/20/2011 8:56	0.087	0	0.025
12	10/20/2011 8:57	0.042	0	0.006
13	10/20/2011 8:58	0.02	0	0.002
14	10/20/2011 8:59	0	0	0
15	10/20/2011 9:00	0	0	0
16	10/20/2011 9:01	0	0	0
17	10/20/2011 9:02	0	0	0
18	10/20/2011 9:03	0	0	0
19	10/20/2011 9:04	0	0	0
20	10/20/2011 9:05	0	0	0
21	10/20/2011 9:06	0	0	0
22	10/20/2011 9:07	0	0	0
23	10/20/2011 9:08	0	0	0
24	10/20/2011 9:09	0	0	0
25	10/20/2011 9:10	0	0	0
26	10/20/2011 9:11	0	0	0
27	10/20/2011 9:12	0	0	0
28	10/20/2011 9:13	0	0	0
29	10/20/2011 9:14	0	0	0
30	10/20/2011 9:15	0	0	0
31	10/20/2011 9:16	0	0	0
32	10/20/2011 9:17	0	0	0
33	10/20/2011 9:18	0	0	0
34	10/20/2011 9:19	0	0	0
35	10/20/2011 9:20	0	0	0
36	10/20/2011 9:21	0	0	0
37	10/20/2011 9:22	0	0	0
38	10/20/2011 9:23	0	0	0
39	10/20/2011 9:24	0	0	0
40	10/20/2011 9:25	0	0	0
41	10/20/2011 9:26	0	0	0
42	10/20/2011 9:27	0	0	0
43	10/20/2011 9:28	0	0	0
44	10/20/2011 9:29	0	0	0
45	10/20/2011 9:30	0	0	0
46	10/20/2011 9:31	0	0	0
47	10/20/2011 9:32	0	0	0
48	10/20/2011 9:33	0	0	0
49	10/20/2011 9:34	0	0	0
50	10/20/2011 9:35	0	0	0
51	10/20/2011 9:36	0	0	0
52	10/20/2011 9:37	0	0	0
53	10/20/2011 9:38	0	0	0
54	10/20/2011 9:39	0	0	0
55	10/20/2011 9:40	0	0	0
56	10/20/2011 9:41	0	0	0
57	10/20/2011 9:42	0	0	0
58	10/20/2011 9:43	0	0	0
59	10/20/2011 9:44	0	0	0
60	10/20/2011 9:45	0	0	0
61	10/20/2011 9:46	0	0	0
62	10/20/2011 9:47	0	0	0
63	10/20/2011 9:48	0	0	0
64	10/20/2011 9:49	0	0	0
65	10/20/2011 9:50	0	0	0
66	10/20/2011 9:51	0	0	0

67	10/20/2011 9:52	0	0	0
68	10/20/2011 9:53	0	0	0
69	10/20/2011 9:54	0	0	0
70	10/20/2011 9:55	0	0	0
71	10/20/2011 9:56	0	0	0
72	10/20/2011 9:57	0	0	0
73	10/20/2011 9:58	0	0	0
74	10/20/2011 9:59	0	0	0
75	10/20/2011 10:00	0	0	0
76	10/20/2011 10:01	0	0	0
77	10/20/2011 10:02	0	0	0
78	10/20/2011 10:03	0	0	0
79	10/20/2011 10:04	0	0	0
80	10/20/2011 10:05	0	0	0
81	10/20/2011 10:06	0	0	0
82	10/20/2011 10:07	0	0	0
83	10/20/2011 10:08	0	0	0
84	10/20/2011 10:09	0	0	0
85	10/20/2011 10:10	0	0	0
86	10/20/2011 10:11	0	0	0
87	10/20/2011 10:12	0	0	0
88	10/20/2011 10:13	0	0	0
89	10/20/2011 10:14	0	0	0
90	10/20/2011 10:15	0	0	0
91	10/20/2011 10:16	0	0	0
92	10/20/2011 10:17	0	0	0
93	10/20/2011 10:18	0	0	0
94	10/20/2011 10:19	0	0	0
95	10/20/2011 10:20	0	0	0
96	10/20/2011 10:21	0	0	0
97	10/20/2011 10:22	0	0	0
98	10/20/2011 10:23	0	0	0
99	10/20/2011 10:24	0	0	0
100	10/20/2011 10:25	0	0	0
101	10/20/2011 10:26	0	0	0
102	10/20/2011 10:27	0	0	0
103	10/20/2011 10:28	0	0	0
104	10/20/2011 10:29	0	0	0
105	10/20/2011 10:30	0	0	0
106	10/20/2011 10:31	0	0	0
107	10/20/2011 10:32	0	0	0
108	10/20/2011 10:33	0	0	0
109	10/20/2011 10:34	0	0	0
110	10/20/2011 10:35	0	0	0
111	10/20/2011 10:36	0	0	0
112	10/20/2011 10:37	0	0	0
113	10/20/2011 10:38	0	0	0
114	10/20/2011 10:39	0	0	0
115	10/20/2011 10:40	0	0	0
116	10/20/2011 10:41	0	0	0
117	10/20/2011 10:42	0	0	0
118	10/20/2011 10:43	0	0	0
119	10/20/2011 10:44	0	0	0
120	10/20/2011 10:45	0	0	0
121	10/20/2011 10:46	0	0	0
122	10/20/2011 10:47	0	0	0
123	10/20/2011 10:48	0	0	0
124	10/20/2011 10:49	0	0	0
125	10/20/2011 10:50	0	0	0
126	10/20/2011 10:51	0	0	0
127	10/20/2011 10:52	0	0	0
128	10/20/2011 10:53	0	0	0
129	10/20/2011 10:54	0	0	0
130	10/20/2011 10:55	0	0	0
131	10/20/2011 10:56	0	0	0
132	10/20/2011 10:57	0	0	0
133	10/20/2011 10:58	0	0	0
134	10/20/2011 10:59	0	0	0
135	10/20/2011 11:00	0	0	0
136	10/20/2011 11:01	0	0	0
137	10/20/2011 11:02	0	0	0
138	10/20/2011 11:03	0	0	0
139	10/20/2011 11:04	0	0	0
140	10/20/2011 11:05	0	0	0
141	10/20/2011 11:06	0	0	0
142	10/20/2011 11:07	0	0	0
143	10/20/2011 11:08	0	0	0
144	10/20/2011 11:09	0	0	0
145	10/20/2011 11:10	0	0	0
146	10/20/2011 11:11	0	0	0
147	10/20/2011 11:12	0	0	0
148	10/20/2011 11:13	0	0	0
149	10/20/2011 11:14	0	0	0
150	10/20/2011 11:15	0	0	0
151	10/20/2011 11:16	0	0	0
152	10/20/2011 11:17	0	0	0
153	10/20/2011 11:18	0	0	0

154	10/20/2011 11:19	0	0	0
155	10/20/2011 11:20	0	0	0
156	10/20/2011 11:21	0	0	0
157	10/20/2011 11:22	0	0	0
158	10/20/2011 11:23	0	0	0
159	10/20/2011 11:24	0	0	0
160	10/20/2011 11:25	0	0	0
161	10/20/2011 11:26	0	0	0
162	10/20/2011 11:27	0	0	0
163	10/20/2011 11:28	0	0	0
164	10/20/2011 11:29	0	0	0
165	10/20/2011 11:30	0	0	0
166	10/20/2011 11:31	0	0	0

==========Event #6 information (end)==========

==========Event #7 information (begin)==========

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[Event #7 name:]--[Event #7]2011-10-20 11:32<-->2011-10-20 17:54

[Event start time:]--2011-10-20 11:32:47[Event end time:]--2011-10-20 17:54:47

==========Event #7 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 382 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

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Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-20 08:45:002011-10-20 08:45:002011-10-20 08:45:00

Drift Value : --- --- ---

Low Alarm Levels : 21.738 21.738 21.738

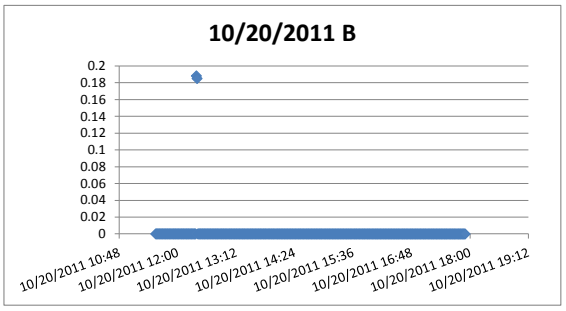
High Alarm Levels : 43.476 43.476 43.476

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #7 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/20/2011 11:33	0	0	0
2	10/20/2011 11:34	0	0	0
3	10/20/2011 11:35	0	0	0
4	10/20/2011 11:36	0	0	0
5	10/20/2011 11:37	0	0	0
6	10/20/2011 11:38	0	0	0
7	10/20/2011 11:39	0	0	0
8	10/20/2011 11:40	0	0	0
9	10/20/2011 11:41	0	0	0
10	10/20/2011 11:42	0	0	0
11	10/20/2011 11:43	0	0	0
12	10/20/2011 11:44	0	0	0
13	10/20/2011 11:45	0	0	0
14	10/20/2011 11:46	0	0	0
15	10/20/2011 11:47	0	0	0
16	10/20/2011 11:48	0	0	0
17	10/20/2011 11:49	0	0	0
18	10/20/2011 11:50	0	0	0
19	10/20/2011 11:51	0	0	0
20	10/20/2011 11:52	0	0	0
21	10/20/2011 11:53	0	0	0
22	10/20/2011 11:54	0	0	0
23	10/20/2011 11:55	0	0	0
24	10/20/2011 11:56	0	0	0
25	10/20/2011 11:57	0	0	0
26	10/20/2011 11:58	0	0	0
27	10/20/2011 11:59	0	0	0
28	10/20/2011 12:00	0	0	0
29	10/20/2011 12:01	0	0	0
30	10/20/2011 12:02	0	0	0
31	10/20/2011 12:03	0	0	0
32	10/20/2011 12:04	0	0	0
33	10/20/2011 12:05	0	0	0
34	10/20/2011 12:06	0	0	0
35	10/20/2011 12:07	0	0	0
36	10/20/2011 12:08	0	0	0
37	10/20/2011 12:09	0	0	0
38	10/20/2011 12:10	0	0	0
39	10/20/2011 12:11	0	0	0
40	10/20/2011 12:12	0	0	0
41	10/20/2011 12:13	0	0	0
42	10/20/2011 12:14	0	0	0
43	10/20/2011 12:15	0	0	0
44	10/20/2011 12:16	0	0	0
45	10/20/2011 12:17	0	0	0
46	10/20/2011 12:18	0	0	0
47	10/20/2011 12:19	0	0	0
48	10/20/2011 12:20	0	0	0
49	10/20/2011 12:21	0	0	0
50	10/20/2011 12:22	0	0	0

51	10/20/2011 12:23	0.188	0	0.011
52	10/20/2011 12:24	0.185	0	0.011
53	10/20/2011 12:25	0	0	0
54	10/20/2011 12:26	0	0	0
55	10/20/2011 12:27	0	0	0
56	10/20/2011 12:28	0	0	0
57	10/20/2011 12:29	0	0	0
58	10/20/2011 12:30	0	0	0
59	10/20/2011 12:31	0	0	0
60	10/20/2011 12:32	0	0	0
61	10/20/2011 12:33	0	0	0
62	10/20/2011 12:34	0	0	0
63	10/20/2011 12:35	0	0	0
64	10/20/2011 12:36	0	0	0
65	10/20/2011 12:37	0	0	0
66	10/20/2011 12:38	0	0	0
67	10/20/2011 12:39	0	0	0
68	10/20/2011 12:40	0	0	0
69	10/20/2011 12:41	0	0	0
70	10/20/2011 12:42	0	0	0
71	10/20/2011 12:43	0	0	0
72	10/20/2011 12:44	0	0	0
73	10/20/2011 12:45	0	0	0
74	10/20/2011 12:46	0	0	0
75	10/20/2011 12:47	0	0	0
76	10/20/2011 12:48	0	0	0
77	10/20/2011 12:49	0	0	0
78	10/20/2011 12:50	0	0	0
79	10/20/2011 12:51	0	0	0
80	10/20/2011 12:52	0	0	0
81	10/20/2011 12:53	0	0	0
82	10/20/2011 12:54	0	0	0
83	10/20/2011 12:55	0	0	0
84	10/20/2011 12:56	0	0	0
85	10/20/2011 12:57	0	0	0
86	10/20/2011 12:58	0	0	0
87	10/20/2011 12:59	0	0	0
88	10/20/2011 13:00	0	0	0
89	10/20/2011 13:01	0	0	0
90	10/20/2011 13:02	0	0	0
91	10/20/2011 13:03	0	0	0
92	10/20/2011 13:04	0	0	0
93	10/20/2011 13:05	0	0	0
94	10/20/2011 13:06	0	0	0
95	10/20/2011 13:07	0	0	0
96	10/20/2011 13:08	0	0	0
97	10/20/2011 13:09	0	0	0
98	10/20/2011 13:10	0	0	0
99	10/20/2011 13:11	0	0	0
100	10/20/2011 13:12	0	0	0
101	10/20/2011 13:13	0	0	0
102	10/20/2011 13:14	0	0	0
103	10/20/2011 13:15	0	0	0
104	10/20/2011 13:16	0	0	0
105	10/20/2011 13:17	0	0	0
106	10/20/2011 13:18	0	0	0
107	10/20/2011 13:19	0	0	0
108	10/20/2011 13:20	0	0	0
109	10/20/2011 13:21	0	0	0
110	10/20/2011 13:22	0	0	0
111	10/20/2011 13:23	0	0	0
112	10/20/2011 13:24	0	0	0
113	10/20/2011 13:25	0	0	0
114	10/20/2011 13:26	0	0	0
115	10/20/2011 13:27	0	0	0
116	10/20/2011 13:28	0	0	0
117	10/20/2011 13:29	0	0	0
118	10/20/2011 13:30	0	0	0
119	10/20/2011 13:31	0	0	0
120	10/20/2011 13:32	0	0	0
121	10/20/2011 13:33	0	0	0
122	10/20/2011 13:34	0	0	0
123	10/20/2011 13:35	0	0	0
124	10/20/2011 13:36	0	0	0
125	10/20/2011 13:37	0	0	0
126	10/20/2011 13:38	0	0	0
127	10/20/2011 13:39	0	0	0
128	10/20/2011 13:40	0	0	0
129	10/20/2011 13:41	0	0	0
130	10/20/2011 13:42	0	0	0
131	10/20/2011 13:43	0	0	0
132	10/20/2011 13:44	0	0	0
133	10/20/2011 13:45	0	0	0
134	10/20/2011 13:46	0	0	0
135	10/20/2011 13:47	0	0	0
136	10/20/2011 13:48	0	0	0
137	10/20/2011 13:49	0	0	0

138	10/20/2011 13:50	0	0	0
139	10/20/2011 13:51	0	0	0
140	10/20/2011 13:52	0	0	0
141	10/20/2011 13:53	0	0	0
142	10/20/2011 13:54	0	0	0
143	10/20/2011 13:55	0	0	0
144	10/20/2011 13:56	0	0	0
145	10/20/2011 13:57	0	0	0
146	10/20/2011 13:58	0	0	0
147	10/20/2011 13:59	0	0	0
148	10/20/2011 14:00	0	0	0
149	10/20/2011 14:01	0	0	0
150	10/20/2011 14:02	0	0	0
151	10/20/2011 14:03	0	0	0
152	10/20/2011 14:04	0	0	0
153	10/20/2011 14:05	0	0	0
154	10/20/2011 14:06	0	0	0
155	10/20/2011 14:07	0	0	0
156	10/20/2011 14:08	0	0	0
157	10/20/2011 14:09	0	0	0
158	10/20/2011 14:10	0	0	0
159	10/20/2011 14:11	0	0	0
160	10/20/2011 14:12	0	0	0
161	10/20/2011 14:13	0	0	0
162	10/20/2011 14:14	0	0	0
163	10/20/2011 14:15	0	0	0
164	10/20/2011 14:16	0	0	0
165	10/20/2011 14:17	0	0	0
166	10/20/2011 14:18	0	0	0
167	10/20/2011 14:19	0	0	0
168	10/20/2011 14:20	0	0	0
169	10/20/2011 14:21	0	0	0
170	10/20/2011 14:22	0	0	0
171	10/20/2011 14:23	0	0	0
172	10/20/2011 14:24	0	0	0
173	10/20/2011 14:25	0	0	0
174	10/20/2011 14:26	0	0	0
175	10/20/2011 14:27	0	0	0
176	10/20/2011 14:28	0	0	0
177	10/20/2011 14:29	0	0	0
178	10/20/2011 14:30	0	0	0
179	10/20/2011 14:31	0	0	0
180	10/20/2011 14:32	0	0	0
181	10/20/2011 14:33	0	0	0
182	10/20/2011 14:34	0	0	0
183	10/20/2011 14:35	0	0	0
184	10/20/2011 14:36	0	0	0
185	10/20/2011 14:37	0	0	0
186	10/20/2011 14:38	0	0	0
187	10/20/2011 14:39	0	0	0
188	10/20/2011 14:40	0	0	0
189	10/20/2011 14:41	0	0	0
190	10/20/2011 14:42	0	0	0
191	10/20/2011 14:43	0	0	0
192	10/20/2011 14:44	0	0	0
193	10/20/2011 14:45	0	0	0
194	10/20/2011 14:46	0	0	0
195	10/20/2011 14:47	0	0	0
196	10/20/2011 14:48	0	0	0
197	10/20/2011 14:49	0	0	0
198	10/20/2011 14:50	0	0	0
199	10/20/2011 14:51	0	0	0
200	10/20/2011 14:52	0	0	0
201	10/20/2011 14:53	0	0	0
202	10/20/2011 14:54	0	0	0
203	10/20/2011 14:55	0	0	0
204	10/20/2011 14:56	0	0	0
205	10/20/2011 14:57	0	0	0
206	10/20/2011 14:58	0	0	0
207	10/20/2011 14:59	0	0	0
208	10/20/2011 15:00	0	0	0
209	10/20/2011 15:01	0	0	0
210	10/20/2011 15:02	0	0	0
211	10/20/2011 15:03	0	0	0
212	10/20/2011 15:04	0	0	0
213	10/20/2011 15:05	0	0	0
214	10/20/2011 15:06	0	0	0
215	10/20/2011 15:07	0	0	0
216	10/20/2011 15:08	0	0	0
217	10/20/2011 15:09	0	0	0
218	10/20/2011 15:10	0	0	0
219	10/20/2011 15:11	0	0	0
220	10/20/2011 15:12	0	0	0
221	10/20/2011 15:13	0	0	0
222	10/20/2011 15:14	0	0	0
223	10/20/2011 15:15	0	0	0
224	10/20/2011 15:16	0	0	0

225	10/20/2011 15:17	0	0	0
226	10/20/2011 15:18	0	0	0
227	10/20/2011 15:19	0	0	0
228	10/20/2011 15:20	0	0	0
229	10/20/2011 15:21	0	0	0
230	10/20/2011 15:22	0	0	0
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233	10/20/2011 15:25	0	0	0
234	10/20/2011 15:26	0	0	0
235	10/20/2011 15:27	0	0	0
236	10/20/2011 15:28	0	0	0
237	10/20/2011 15:29	0	0	0
238	10/20/2011 15:30	0	0	0
239	10/20/2011 15:31	0	0	0
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243	10/20/2011 15:35	0	0	0
244	10/20/2011 15:36	0	0	0
245	10/20/2011 15:37	0	0	0
246	10/20/2011 15:38	0	0	0
247	10/20/2011 15:39	0	0	0
248	10/20/2011 15:40	0	0	0
249	10/20/2011 15:41	0	0	0
250	10/20/2011 15:42	0	0	0
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252	10/20/2011 15:44	0	0	0
253	10/20/2011 15:45	0	0	0
254	10/20/2011 15:46	0	0	0
255	10/20/2011 15:47	0	0	0
256	10/20/2011 15:48	0	0	0
257	10/20/2011 15:49	0	0	0
258	10/20/2011 15:50	0	0	0
259	10/20/2011 15:51	0	0	0
260	10/20/2011 15:52	0	0	0
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263	10/20/2011 15:55	0	0	0
264	10/20/2011 15:56	0	0	0
265	10/20/2011 15:57	0	0	0
266	10/20/2011 15:58	0	0	0
267	10/20/2011 15:59	0	0	0
268	10/20/2011 16:00	0	0	0
269	10/20/2011 16:01	0	0	0
270	10/20/2011 16:02	0	0	0
271	10/20/2011 16:03	0	0	0
272	10/20/2011 16:04	0	0	0
273	10/20/2011 16:05	0	0	0
274	10/20/2011 16:06	0	0	0
275	10/20/2011 16:07	0	0	0
276	10/20/2011 16:08	0	0	0
277	10/20/2011 16:09	0	0	0
278	10/20/2011 16:10	0	0	0
279	10/20/2011 16:11	0	0	0
280	10/20/2011 16:12	0	0	0
281	10/20/2011 16:13	0	0	0
282	10/20/2011 16:14	0	0	0
283	10/20/2011 16:15	0	0	0
284	10/20/2011 16:16	0	0	0
285	10/20/2011 16:17	0	0	0
286	10/20/2011 16:18	0	0	0
287	10/20/2011 16:19	0	0	0
288	10/20/2011 16:20	0	0	0
289	10/20/2011 16:21	0	0	0
290	10/20/2011 16:22	0	0	0
291	10/20/2011 16:23	0	0	0
292	10/20/2011 16:24	0	0	0
293	10/20/2011 16:25	0	0	0
294	10/20/2011 16:26	0	0	0
295	10/20/2011 16:27	0	0	0
296	10/20/2011 16:28	0	0	0
297	10/20/2011 16:29	0	0	0
298	10/20/2011 16:30	0	0	0
299	10/20/2011 16:31	0	0	0
300	10/20/2011 16:32	0	0	0
301	10/20/2011 16:33	0	0	0
302	10/20/2011 16:34	0	0	0
303	10/20/2011 16:35	0	0	0
304	10/20/2011 16:36	0	0	0
305	10/20/2011 16:37	0	0	0
306	10/20/2011 16:38	0	0	0
307	10/20/2011 16:39	0	0	0
308	10/20/2011 16:40	0	0	0
309	10/20/2011 16:41	0	0	0
310	10/20/2011 16:42	0	0	0
311	10/20/2011 16:43	0	0	0

312	10/20/2011 16:44	0	0	0
313	10/20/2011 16:45	0	0	0
314	10/20/2011 16:46	0	0	0
315	10/20/2011 16:47	0	0	0
316	10/20/2011 16:48	0	0	0
317	10/20/2011 16:49	0	0	0
318	10/20/2011 16:50	0	0	0
319	10/20/2011 16:51	0	0	0
320	10/20/2011 16:52	0	0	0
321	10/20/2011 16:53	0	0	0
322	10/20/2011 16:54	0	0	0
323	10/20/2011 16:55	0	0	0
324	10/20/2011 16:56	0	0	0
325	10/20/2011 16:57	0	0	0
326	10/20/2011 16:58	0	0	0
327	10/20/2011 16:59	0	0	0
328	10/20/2011 17:00	0	0	0
329	10/20/2011 17:01	0	0	0
330	10/20/2011 17:02	0	0	0
331	10/20/2011 17:03	0	0	0
332	10/20/2011 17:04	0	0	0
333	10/20/2011 17:05	0	0	0
334	10/20/2011 17:06	0	0	0
335	10/20/2011 17:07	0	0	0
336	10/20/2011 17:08	0	0	0
337	10/20/2011 17:09	0	0	0
338	10/20/2011 17:10	0	0	0
339	10/20/2011 17:11	0	0	0
340	10/20/2011 17:12	0	0	0
341	10/20/2011 17:13	0	0	0
342	10/20/2011 17:14	0	0	0
343	10/20/2011 17:15	0	0	0
344	10/20/2011 17:16	0	0	0
345	10/20/2011 17:17	0	0	0
346	10/20/2011 17:18	0	0	0
347	10/20/2011 17:19	0	0	0
348	10/20/2011 17:20	0	0	0
349	10/20/2011 17:21	0	0	0
350	10/20/2011 17:22	0	0	0
351	10/20/2011 17:23	0	0	0
352	10/20/2011 17:24	0	0	0
353	10/20/2011 17:25	0	0	0
354	10/20/2011 17:26	0	0	0
355	10/20/2011 17:27	0	0	0
356	10/20/2011 17:28	0	0	0
357	10/20/2011 17:29	0	0	0
358	10/20/2011 17:30	0	0	0
359	10/20/2011 17:31	0	0	0
360	10/20/2011 17:32	0	0	0
361	10/20/2011 17:33	0	0	0
362	10/20/2011 17:34	0	0	0
363	10/20/2011 17:35	0	0	0
364	10/20/2011 17:36	0	0	0
365	10/20/2011 17:37	0	0	0
366	10/20/2011 17:38	0	0	0
367	10/20/2011 17:39	0	0	0
368	10/20/2011 17:40	0	0	0
369	10/20/2011 17:41	0	0	0
370	10/20/2011 17:42	0	0	0
371	10/20/2011 17:43	0	0	0
372	10/20/2011 17:44	0	0	0
373	10/20/2011 17:45	0	0	0
374	10/20/2011 17:46	0	0	0
375	10/20/2011 17:47	0	0	0
376	10/20/2011 17:48	0	0	0
377	10/20/2011 17:49	0	0	0
378	10/20/2011 17:50	0	0	0
379	10/20/2011 17:51	0	0	0
380	10/20/2011 17:52	0	0	0
381	10/20/2011 17:53	0	0	0
382	10/20/2011 17:54	0	0	0

==========Event #7 information (end)==========

=========Event #10 information (begin)=========

[Event #10 name:]--[Event #10]2011-10-21 07:21<-->2011-10-21 16:34

[Event start time:]--2011-10-21 07:21:51[Event end time:]--2011-10-21 16:34:51

==========Event #10 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 553 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-21 07:21:002011-10-21 07:21:002011-10-21 07:21:00

Drift Value : --- --- ---

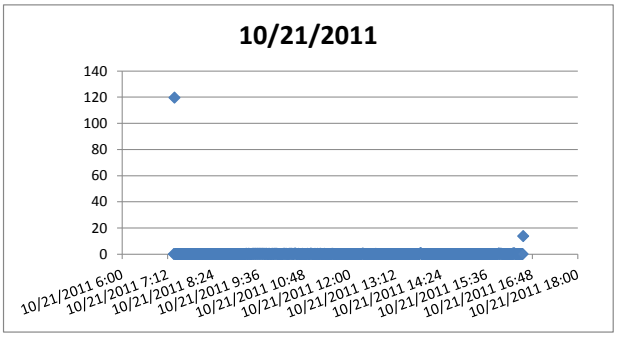
Low Alarm Levels : 21.738 21.738 21.738

High Alarm Levels : 43.476 43.476 43.476

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000



==========Event #10 data informations==========

LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/21/2011 7:22	0	0	0
2	10/21/2011 7:23	119.674	0	14.968
3	10/21/2011 7:24	0	0	0
4	10/21/2011 7:25	0	0	0
5	10/21/2011 7:26	0	0	0
6	10/21/2011 7:27	0	0	0
7	10/21/2011 7:28	0	0	0
8	10/21/2011 7:29	0	0	0
9	10/21/2011 7:30	0	0	0
10	10/21/2011 7:31	0	0	0
11	10/21/2011 7:32	0	0	0
12	10/21/2011 7:33	0	0	0
13	10/21/2011 7:34	0	0	0
14	10/21/2011 7:35	0	0	0
15	10/21/2011 7:36	0	0	0
16	10/21/2011 7:37	0	0	0
17	10/21/2011 7:38	0.086	0	0.009
18	10/21/2011 7:39	0	0	0
19	10/21/2011 7:40	0	0	0
20	10/21/2011 7:41	0	0	0
21	10/21/2011 7:42	0	0	0
22	10/21/2011 7:43	0	0	0
23	10/21/2011 7:44	0	0	0
24	10/21/2011 7:45	0.001	0	0
25	10/21/2011 7:46	0	0	0
26	10/21/2011 7:47	0	0	0
27	10/21/2011 7:48	0	0	0
28	10/21/2011 7:49	0	0	0
29	10/21/2011 7:50	0.002	0	0
30	10/21/2011 7:51	0	0	0
31	10/21/2011 7:52	0	0	0
32	10/21/2011 7:53	0.01	0	0
33	10/21/2011 7:54	0	0	0
34	10/21/2011 7:55	0	0	0
35	10/21/2011 7:56	0	0	0
36	10/21/2011 7:57	0	0	0
37	10/21/2011 7:58	0	0	0
38	10/21/2011 7:59	0	0	0
39	10/21/2011 8:00	0	0	0
40	10/21/2011 8:01	0	0	0
41	10/21/2011 8:02	0.001	0	0
42	10/21/2011 8:03	0.037	0	0.013
43	10/21/2011 8:04	0.002	0	0
44	10/21/2011 8:05	0.006	0	0
45	10/21/2011 8:06	0.005	0	0
46	10/21/2011 8:07	0.004	0	0
47	10/21/2011 8:08	0.004	0	0
48	10/21/2011 8:09	0.113	0.008	0.057
49	10/21/2011 8:10	0.073	0	0.009
50	10/21/2011 8:11	0.009	0	0
51	10/21/2011 8:12	0.001	0	0
52	10/21/2011 8:13	0.003	0	0
53	10/21/2011 8:14	0	0	0
54	10/21/2011 8:15	0.002	0	0
55	10/21/2011 8:16	0.003	0	0
56	10/21/2011 8:17	0.026	0	0.004
57	10/21/2011 8:18	0.023	0	0.001
58	10/21/2011 8:19	0.031	0	0.006
59	10/21/2011 8:20	0.07	0	0.012

60	10/21/2011 8:21	0.071	0.032	0.047
61	10/21/2011 8:22	0.031	0	0.006
62	10/21/2011 8:23	0.05	0	0.012
63	10/21/2011 8:24	0	0	0
64	10/21/2011 8:25	0.065	0	0.016
65	10/21/2011 8:26	0.034	0	0.002
66	10/21/2011 8:27	0.038	0	0.016
67	10/21/2011 8:28	0.041	0	0.016
68	10/21/2011 8:29	0.036	0	0.01
69	10/21/2011 8:30	0	0	0
70	10/21/2011 8:31	0.03	0	0.013
71	10/21/2011 8:32	0.019	0	0.004
72	10/21/2011 8:33	0.001	0	0
73	10/21/2011 8:34	0	0	0
74	10/21/2011 8:35	0.021	0	0.002
75	10/21/2011 8:36	0.028	0	0.013
76	10/21/2011 8:37	0.012	0	0.002
77	10/21/2011 8:38	0	0	0
78	10/21/2011 8:39	0.026	0	0.003
79	10/21/2011 8:40	0.062	0.006	0.026
80	10/21/2011 8:41	0.04	0.006	0.025
81	10/21/2011 8:42	0.021	0	0.006
82	10/21/2011 8:43	0.061	0	0.021
83	10/21/2011 8:44	0.048	0.026	0.039
84	10/21/2011 8:45	0.1	0.04	0.072
85	10/21/2011 8:46	0.088	0.046	0.066
86	10/21/2011 8:47	0.073	0.045	0.056
87	10/21/2011 8:48	0.065	0.032	0.051
88	10/21/2011 8:49	0.097	0.037	0.067
89	10/21/2011 8:50	0.088	0.015	0.04
90	10/21/2011 8:51	0.038	0	0.011
91	10/21/2011 8:52	0.043	0.015	0.029
92	10/21/2011 8:53	0.05	0.004	0.031
93	10/21/2011 8:54	0.04	0	0.012
94	10/21/2011 8:55	0.048	0.01	0.027
95	10/21/2011 8:56	0.052	0.003	0.026
96	10/21/2011 8:57	0.054	0.012	0.033
97	10/21/2011 8:58	0.088	0.02	0.039
98	10/21/2011 8:59	0.031	0	0.012
99	10/21/2011 9:00	0.062	0.006	0.037
100	10/21/2011 9:01	0.065	0.026	0.047
101	10/21/2011 9:02	0.103	0.04	0.06
102	10/21/2011 9:03	0.074	0.04	0.051
103	10/21/2011 9:04	0.068	0.015	0.041
104	10/21/2011 9:05	0.11	0.004	0.03
105	10/21/2011 9:06	0.087	0.004	0.032
106	10/21/2011 9:07	0.085	0.02	0.048
107	10/21/2011 9:08	0.043	0.013	0.026
108	10/21/2011 9:09	0.032	0.006	0.018
109	10/21/2011 9:10	0.06	0.027	0.047
110	10/21/2011 9:11	0.077	0.022	0.041
111	10/21/2011 9:12	0.074	0.026	0.051
112	10/21/2011 9:13	0.062	0.003	0.035
113	10/21/2011 9:14	0.061	0.001	0.027
114	10/21/2011 9:15	0.059	0.005	0.03
115	10/21/2011 9:16	0.145	0.006	0.061
116	10/21/2011 9:17	0.144	0.096	0.119
117	10/21/2011 9:18	0.133	0.088	0.114
118	10/21/2011 9:19	0.129	0.097	0.112
119	10/21/2011 9:20	0.179	0.079	0.119
120	10/21/2011 9:21	0.179	0.083	0.116
121	10/21/2011 9:22	0.095	0.058	0.077
122	10/21/2011 9:23	0.096	0.068	0.083
123	10/21/2011 9:24	0.128	0.064	0.104
124	10/21/2011 9:25	0.104	0.069	0.089
125	10/21/2011 9:26	0.173	0.085	0.135
126	10/21/2011 9:27	0.167	0.142	0.153
127	10/21/2011 9:28	0.169	0.113	0.135
128	10/21/2011 9:29	0.171	0.112	0.133
129	10/21/2011 9:30	0.174	0.123	0.138
130	10/21/2011 9:31	0.174	0.12	0.144
131	10/21/2011 9:32	0.173	0.115	0.137
132	10/21/2011 9:33	0.203	0.125	0.177
133	10/21/2011 9:34	0.205	0.145	0.166
134	10/21/2011 9:35	0.2	0.141	0.172
135	10/21/2011 9:36	0.215	0.105	0.171
136	10/21/2011 9:37	0.179	0.11	0.154
137	10/21/2011 9:38	0.142	0.109	0.128
138	10/21/2011 9:39	0.143	0.114	0.125
139	10/21/2011 9:40	0.193	0.089	0.142

140	10/21/2011 9:41	0.183	0.11	0.146
141	10/21/2011 9:42	0.156	0.105	0.125
142	10/21/2011 9:43	0.163	0.135	0.152
143	10/21/2011 9:44	0.168	0.125	0.149
144	10/21/2011 9:45	0.198	0.092	0.148
145	10/21/2011 9:46	0.115	0.071	0.093
146	10/21/2011 9:47	0.149	0.113	0.132
147	10/21/2011 9:48	0.16	0.106	0.131
148	10/21/2011 9:49	0.149	0.102	0.128
149	10/21/2011 9:50	0.131	0.105	0.114
150	10/21/2011 9:51	0.122	0.081	0.099
151	10/21/2011 9:52	0.191	0.128	0.168
152	10/21/2011 9:53	0.264	0.103	0.192
153	10/21/2011 9:54	0.126	0.097	0.107
154	10/21/2011 9:55	0.125	0.071	0.091
155	10/21/2011 9:56	0.133	0.058	0.08
156	10/21/2011 9:57	0.151	0.064	0.101
157	10/21/2011 9:58	0.145	0.082	0.123
158	10/21/2011 9:59	0.14	0.07	0.102
159	10/21/2011 10:00	0.151	0.105	0.123
160	10/21/2011 10:01	0.15	0.078	0.099
161	10/21/2011 10:02	0.226	0.118	0.164
162	10/21/2011 10:03	0.249	0.176	0.21
163	10/21/2011 10:04	0.207	0.158	0.179
164	10/21/2011 10:05	0.182	0.086	0.114
165	10/21/2011 10:06	0.126	0.065	0.092
166	10/21/2011 10:07	0.13	0.078	0.104
167	10/21/2011 10:08	0.128	0.089	0.115
168	10/21/2011 10:09	0.101	0.068	0.086
169	10/21/2011 10:10	0.091	0.036	0.07
170	10/21/2011 10:11	0.081	0.034	0.057
171	10/21/2011 10:12	0.124	0.073	0.098
172	10/21/2011 10:13	0.124	0.087	0.109
173	10/21/2011 10:14	0.114	0.074	0.093
174	10/21/2011 10:15	0.185	0.098	0.146
175	10/21/2011 10:16	0.215	0.138	0.18
176	10/21/2011 10:17	0.264	0.136	0.191
177	10/21/2011 10:18	0.229	0.087	0.131
178	10/21/2011 10:19	0.099	0.07	0.084
179	10/21/2011 10:20	0.143	0.071	0.109
180	10/21/2011 10:21	0.11	0.055	0.073
181	10/21/2011 10:22	0.096	0.033	0.062
182	10/21/2011 10:23	0.103	0.069	0.087
183	10/21/2011 10:24	0.162	0.05	0.133
184	10/21/2011 10:25	0.151	0.107	0.128
185	10/21/2011 10:26	0.167	0.112	0.137
186	10/21/2011 10:27	0.192	0.134	0.16
187	10/21/2011 10:28	0.191	0.119	0.161
188	10/21/2011 10:29	0.178	0.107	0.138
189	10/21/2011 10:30	0.104	0.051	0.08
190	10/21/2011 10:31	0.071	0.026	0.046
191	10/21/2011 10:32	0.149	0.077	0.127
192	10/21/2011 10:33	0.4	0.146	0.282
193	10/21/2011 10:34	0.297	0.162	0.223
194	10/21/2011 10:35	0.162	0.07	0.111
195	10/21/2011 10:36	0.108	0.053	0.077
196	10/21/2011 10:37	0.114	0.009	0.065
197	10/21/2011 10:38	0.087	0.014	0.046
198	10/21/2011 10:39	0.179	0.043	0.095
199	10/21/2011 10:40	0.102	0.027	0.051
200	10/21/2011 10:41	0.124	0.023	0.066
201	10/21/2011 10:42	0.037	0	0.021
202	10/21/2011 10:43	0.014	0	0.001
203	10/21/2011 10:44	0.08	0	0.026
204	10/21/2011 10:45	0.211	0.013	0.06
205	10/21/2011 10:46	0.039	0.001	0.018
206	10/21/2011 10:47	0.061	0	0.019
207	10/21/2011 10:48	0.024	0	0.002
208	10/21/2011 10:49	0.069	0	0.016
209	10/21/2011 10:50	0.102	0.01	0.058
210	10/21/2011 10:51	0.106	0	0.035
211	10/21/2011 10:52	0.11	0.029	0.053
212	10/21/2011 10:53	0.156	0.062	0.107
213	10/21/2011 10:54	0.107	0.08	0.091
214	10/21/2011 10:55	0.126	0.052	0.087
215	10/21/2011 10:56	0.068	0	0.024
216	10/21/2011 10:57	0.109	0	0.032
217	10/21/2011 10:58	0.396	0.073	0.171
218	10/21/2011 10:59	0.282	0.02	0.087
219	10/21/2011 11:00	0.147	0	0.03

220	10/21/2011 11:01	0.128	0.02	0.083
221	10/21/2011 11:02	0.102	0.033	0.065
222	10/21/2011 11:03	0.103	0.018	0.06
223	10/21/2011 11:04	0.067	0.002	0.033
224	10/21/2011 11:05	0.144	0	0.057
225	10/21/2011 11:06	0.044	0	0.007
226	10/21/2011 11:07	0.043	0	0.004
227	10/21/2011 11:08	0.098	0	0.032
228	10/21/2011 11:09	0.148	0.001	0.04
229	10/21/2011 11:10	0.001	0	0
230	10/21/2011 11:11	0.049	0	0.004
231	10/21/2011 11:12	0.112	0.016	0.054
232	10/21/2011 11:13	0.179	0.073	0.128
233	10/21/2011 11:14	0.236	0.062	0.133
234	10/21/2011 11:15	0.134	0.055	0.091
235	10/21/2011 11:16	0.087	0.043	0.066
236	10/21/2011 11:17	0.114	0.002	0.049
237	10/21/2011 11:18	0.11	0.009	0.064
238	10/21/2011 11:19	0.103	0	0.055
239	10/21/2011 11:20	0.145	0	0.031
240	10/21/2011 11:21	0.128	0.038	0.086
241	10/21/2011 11:22	0.051	0	0.019
242	10/21/2011 11:23	0.084	0	0.032
243	10/21/2011 11:24	0.073	0.014	0.03
244	10/21/2011 11:25	0.064	0	0.02
245	10/21/2011 11:26	0.113	0	0.033
246	10/21/2011 11:27	0.073	0	0.019
247	10/21/2011 11:28	0.07	0	0.027
248	10/21/2011 11:29	0.056	0	0.008
249	10/21/2011 11:30	0.046	0	0.008
250	10/21/2011 11:31	0.001	0	0
251	10/21/2011 11:32	0.196	0	0.086
252	10/21/2011 11:33	0.177	0.086	0.135
253	10/21/2011 11:34	0.084	0	0.032
254	10/21/2011 11:35	0.025	0	0.003
255	10/21/2011 11:36	0.044	0	0.014
256	10/21/2011 11:37	0.078	0	0.012
257	10/21/2011 11:38	0	0	0
258	10/21/2011 11:39	0	0	0
259	10/21/2011 11:40	0.032	0	0.008
260	10/21/2011 11:41	0.031	0	0.002
261	10/21/2011 11:42	0.035	0	0.009
262	10/21/2011 11:43	0.055	0	0.008
263	10/21/2011 11:44	0.063	0	0.013
264	10/21/2011 11:45	0.012	0	0.002
265	10/21/2011 11:46	0.031	0	0.007
266	10/21/2011 11:47	0.021	0	0.002
267	10/21/2011 11:48	0.029	0	0.004
268	10/21/2011 11:49	0.087	0	0.035
269	10/21/2011 11:50	0.065	0.007	0.029
270	10/21/2011 11:51	0.066	0	0.015
271	10/21/2011 11:52	0.046	0	0.006
272	10/21/2011 11:53	0.022	0	0
273	10/21/2011 11:54	0.056	0	0.012
274	10/21/2011 11:55	0.103	0	0.044
275	10/21/2011 11:56	0.086	0.008	0.042
276	10/21/2011 11:57	0.057	0	0.022
277	10/21/2011 11:58	0.016	0	0.001
278	10/21/2011 11:59	0.075	0.001	0.037
279	10/21/2011 12:00	0.111	0	0.03
280	10/21/2011 12:01	0.033	0	0.003
281	10/21/2011 12:02	0.081	0	0.019
282	10/21/2011 12:03	0.058	0	0.014
283	10/21/2011 12:04	0.084	0	0.018
284	10/21/2011 12:05	0.013	0	0.001
285	10/21/2011 12:06	0.038	0	0.003
286	10/21/2011 12:07	0.049	0	0.015
287	10/21/2011 12:08	0.045	0	0.012
288	10/21/2011 12:09	0.066	0	0.029
289	10/21/2011 12:10	0.101	0.011	0.047
290	10/21/2011 12:11	0.049	0	0.022
291	10/21/2011 12:12	0.128	0	0.037
292	10/21/2011 12:13	0.102	0	0.035
293	10/21/2011 12:14	0.094	0	0.042
294	10/21/2011 12:15	0.136	0	0.043
295	10/21/2011 12:16	0.063	0	0.017
296	10/21/2011 12:17	0.001	0	0
297	10/21/2011 12:18	0.035	0	0.005
298	10/21/2011 12:19	0.052	0	0.021
299	10/21/2011 12:20	0.29	0.003	0.074

300	10/21/2011 12:21	0.31	0.041	0.121
301	10/21/2011 12:22	0.094	0	0.041
302	10/21/2011 12:23	0.113	0	0.027
303	10/21/2011 12:24	0.052	0	0.006
304	10/21/2011 12:25	0.078	0	0.022
305	10/21/2011 12:26	0.113	0.013	0.073
306	10/21/2011 12:27	0.104	0	0.043
307	10/21/2011 12:28	0.069	0	0.022
308	10/21/2011 12:29	0.085	0	0.031
309	10/21/2011 12:30	0.053	0	0.01
310	10/21/2011 12:31	0.044	0	0.005
311	10/21/2011 12:32	0.039	0	0.008
312	10/21/2011 12:33	0.074	0	0.024
313	10/21/2011 12:34	0.065	0	0.018
314	10/21/2011 12:35	0.013	0	0.001
315	10/21/2011 12:36	0.001	0	0
316	10/21/2011 12:37	0.072	0	0.011
317	10/21/2011 12:38	0.004	0	0
318	10/21/2011 12:39	0.014	0	0.001
319	10/21/2011 12:40	0.013	0	0.001
320	10/21/2011 12:41	0.155	0	0.043
321	10/21/2011 12:42	0.09	0	0.028
322	10/21/2011 12:43	0.017	0	0.002
323	10/21/2011 12:44	0.022	0	0.002
324	10/21/2011 12:45	0.083	0	0.021
325	10/21/2011 12:46	0.032	0	0.015
326	10/21/2011 12:47	0.012	0	0
327	10/21/2011 12:48	0	0	0
328	10/21/2011 12:49	0	0	0
329	10/21/2011 12:50	0	0	0
330	10/21/2011 12:51	0	0	0
331	10/21/2011 12:52	0	0	0
332	10/21/2011 12:53	0.009	0	0.001
333	10/21/2011 12:54	0.021	0	0.006
334	10/21/2011 12:55	0.013	0	0.001
335	10/21/2011 12:56	0.006	0	0
336	10/21/2011 12:57	0	0	0
337	10/21/2011 12:58	0	0	0
338	10/21/2011 12:59	0	0	0
339	10/21/2011 13:00	0.01	0	0.001
340	10/21/2011 13:01	0	0	0
341	10/21/2011 13:02	0.001	0	0
342	10/21/2011 13:03	0	0	0
343	10/21/2011 13:04	0	0	0
344	10/21/2011 13:05	0.006	0	0
345	10/21/2011 13:06	0.029	0	0.005
346	10/21/2011 13:07	0.005	0	0
347	10/21/2011 13:08	0	0	0
348	10/21/2011 13:09	0.025	0	0.003
349	10/21/2011 13:10	0.001	0	0
350	10/21/2011 13:11	0	0	0
351	10/21/2011 13:12	0.003	0	0
352	10/21/2011 13:13	0.001	0	0
353	10/21/2011 13:14	0.066	0	0.007
354	10/21/2011 13:15	0.008	0	0
355	10/21/2011 13:16	0	0	0
356	10/21/2011 13:17	0.006	0	0
357	10/21/2011 13:18	0.02	0	0.001
358	10/21/2011 13:19	0.027	0	0.007
359	10/21/2011 13:20	0	0	0
360	10/21/2011 13:21	0.001	0	0
361	10/21/2011 13:22	0	0	0
362	10/21/2011 13:23	0.029	0	0.003
363	10/21/2011 13:24	0.036	0	0.009
364	10/21/2011 13:25	0.004	0	0
365	10/21/2011 13:26	0.006	0	0
366	10/21/2011 13:27	0.008	0	0.001
367	10/21/2011 13:28	0.004	0	0
368	10/21/2011 13:29	0.004	0	0
369	10/21/2011 13:30	0.003	0	0
370	10/21/2011 13:31	0	0	0
371	10/21/2011 13:32	0	0	0
372	10/21/2011 13:33	0	0	0
373	10/21/2011 13:34	0	0	0
374	10/21/2011 13:35	0	0	0
375	10/21/2011 13:36	0	0	0
376	10/21/2011 13:37	0	0	0
377	10/21/2011 13:38	0	0	0
378	10/21/2011 13:39	0.005	0	0
379	10/21/2011 13:40	0	0	0

380	10/21/2011 13:41	0	0	0
381	10/21/2011 13:42	0.001	0	0
382	10/21/2011 13:43	0.028	0	0.002
383	10/21/2011 13:44	0	0	0
384	10/21/2011 13:45	0.009	0	0
385	10/21/2011 13:46	0.002	0	0
386	10/21/2011 13:47	0	0	0
387	10/21/2011 13:48	0	0	0
388	10/21/2011 13:49	0.029	0	0.007
389	10/21/2011 13:50	0	0	0
390	10/21/2011 13:51	0.558	0	0.047
391	10/21/2011 13:52	0.775	0	0.108
392	10/21/2011 13:53	0.039	0	0.003
393	10/21/2011 13:54	0	0	0
394	10/21/2011 13:55	0.005	0	0
395	10/21/2011 13:56	0	0	0
396	10/21/2011 13:57	0.002	0	0
397	10/21/2011 13:58	0.021	0	0.003
398	10/21/2011 13:59	0.01	0	0.001
399	10/21/2011 14:00	0.006	0	0
400	10/21/2011 14:01	0.012	0	0
401	10/21/2011 14:02	0	0	0
402	10/21/2011 14:03	0	0	0
403	10/21/2011 14:04	0.003	0	0
404	10/21/2011 14:05	0.016	0	0.001
405	10/21/2011 14:06	0.01	0	0.001
406	10/21/2011 14:07	0.006	0	0
407	10/21/2011 14:08	0	0	0
408	10/21/2011 14:09	0.002	0	0
409	10/21/2011 14:10	0	0	0
410	10/21/2011 14:11	0.004	0	0
411	10/21/2011 14:12	0.006	0	0
412	10/21/2011 14:13	0.002	0	0
413	10/21/2011 14:14	0.048	0	0.011
414	10/21/2011 14:15	0.051	0	0.006
415	10/21/2011 14:16	0.076	0.014	0.038
416	10/21/2011 14:17	0.109	0.018	0.055
417	10/21/2011 14:18	0.098	0.011	0.06
418	10/21/2011 14:19	0.021	0	0.004
419	10/21/2011 14:20	0.046	0	0.019
420	10/21/2011 14:21	0.05	0	0.015
421	10/21/2011 14:22	0.064	0	0.021
422	10/21/2011 14:23	0.036	0	0.002
423	10/21/2011 14:24	0.001	0	0
424	10/21/2011 14:25	0.005	0	0
425	10/21/2011 14:26	0.026	0	0.003
426	10/21/2011 14:27	0.038	0	0.005
427	10/21/2011 14:28	0.02	0	0.001
428	10/21/2011 14:29	0.027	0	0.004
429	10/21/2011 14:30	0.025	0	0.003
430	10/21/2011 14:31	0.12	0	0.04
431	10/21/2011 14:32	0.044	0	0.009
432	10/21/2011 14:33	0.029	0	0.003
433	10/21/2011 14:34	0.012	0	0.002
434	10/21/2011 14:35	0	0	0
435	10/21/2011 14:36	0.061	0	0.024
436	10/21/2011 14:37	0.051	0	0.022
437	10/21/2011 14:38	0.039	0	0.006
438	10/21/2011 14:39	0	0	0
439	10/21/2011 14:40	0	0	0
440	10/21/2011 14:41	0	0	0
441	10/21/2011 14:42	0	0	0
442	10/21/2011 14:43	0	0	0
443	10/21/2011 14:44	0.013	0	0.001
444	10/21/2011 14:45	0.012	0	0.001
445	10/21/2011 14:46	0.007	0	0
446	10/21/2011 14:47	0.018	0	0.001
447	10/21/2011 14:48	0.013	0	0
448	10/21/2011 14:49	0.018	0	0.002
449	10/21/2011 14:50	0.014	0	0
450	10/21/2011 14:51	0.029	0	0.012
451	10/21/2011 14:52	0	0	0
452	10/21/2011 14:53	0	0	0
453	10/21/2011 14:54	0.001	0	0
454	10/21/2011 14:55	0.009	0	0.001
455	10/21/2011 14:56	0.003	0	0
456	10/21/2011 14:57	0.004	0	0
457	10/21/2011 14:58	0.001	0	0
458	10/21/2011 14:59	0.002	0	0
459	10/21/2011 15:00	0	0	0

460	10/21/2011 15:01	0	0	0
461	10/21/2011 15:02	0	0	0
462	10/21/2011 15:03	0	0	0
463	10/21/2011 15:04	0	0	0
464	10/21/2011 15:05	0	0	0
465	10/21/2011 15:06	0	0	0
466	10/21/2011 15:07	0	0	0
467	10/21/2011 15:08	0	0	0
468	10/21/2011 15:09	0	0	0
469	10/21/2011 15:10	0	0	0
470	10/21/2011 15:11	0	0	0
471	10/21/2011 15:12	0	0	0
472	10/21/2011 15:13	0.018	0	0
473	10/21/2011 15:14	0.03	0	0.007
474	10/21/2011 15:15	0.036	0	0.007
475	10/21/2011 15:16	0.013	0	0.001
476	10/21/2011 15:17	0.015	0	0
477	10/21/2011 15:18	0.018	0	0.003
478	10/21/2011 15:19	0	0	0
479	10/21/2011 15:20	0.001	0	0
480	10/21/2011 15:21	0	0	0
481	10/21/2011 15:22	0	0	0
482	10/21/2011 15:23	0	0	0
483	10/21/2011 15:24	0	0	0
484	10/21/2011 15:25	0	0	0
485	10/21/2011 15:26	0.019	0	0.001
486	10/21/2011 15:27	0.035	0	0.001
487	10/21/2011 15:28	0.038	0	0.003
488	10/21/2011 15:29	0	0	0
489	10/21/2011 15:30	0.001	0	0
490	10/21/2011 15:31	0.004	0	0
491	10/21/2011 15:32	0	0	0
492	10/21/2011 15:33	0	0	0
493	10/21/2011 15:34	0.018	0	0.001
494	10/21/2011 15:35	0	0	0
495	10/21/2011 15:36	0	0	0
496	10/21/2011 15:37	0.005	0	0
497	10/21/2011 15:38	0.003	0	0
498	10/21/2011 15:39	0	0	0
499	10/21/2011 15:40	0	0	0
500	10/21/2011 15:41	0	0	0
501	10/21/2011 15:42	0.025	0	0.002
502	10/21/2011 15:43	0.022	0	0.008
503	10/21/2011 15:44	0.024	0	0.006
504	10/21/2011 15:45	0.061	0	0.016
505	10/21/2011 15:46	0.05	0	0.006
506	10/21/2011 15:47	0.068	0	0.011
507	10/21/2011 15:48	0.118	0.007	0.07
508	10/21/2011 15:49	0.073	0	0.024
509	10/21/2011 15:50	0.088	0.017	0.048
510	10/21/2011 15:51	0.103	0.02	0.059
511	10/21/2011 15:52	0.123	0	0.033
512	10/21/2011 15:53	0.029	0	0.009
513	10/21/2011 15:54	0.129	0	0.029
514	10/21/2011 15:55	0.44	0.027	0.147
515	10/21/2011 15:56	0.097	0.029	0.059
516	10/21/2011 15:57	0.29	0.062	0.137
517	10/21/2011 15:58	0.2	0.089	0.149
518	10/21/2011 15:59	0.195	0.08	0.136
519	10/21/2011 16:00	0.248	0.047	0.138
520	10/21/2011 16:01	0.095	0.002	0.041
521	10/21/2011 16:02	0.072	0	0.014
522	10/21/2011 16:03	0.038	0	0.01
523	10/21/2011 16:04	0.046	0	0.011
524	10/21/2011 16:05	0.027	0	0.005
525	10/21/2011 16:06	0.067	0	0.019
526	10/21/2011 16:07	0.066	0	0.027
527	10/21/2011 16:08	0.042	0	0.012
528	10/21/2011 16:09	0.052	0	0.017
529	10/21/2011 16:10	0.017	0	0.005
530	10/21/2011 16:11	0.031	0	0.003
531	10/21/2011 16:12	0.028	0	0.007
532	10/21/2011 16:13	0.046	0	0.011
533	10/21/2011 16:14	0.083	0.002	0.034
534	10/21/2011 16:15	0.073	0.014	0.046
535	10/21/2011 16:16	0.072	0	0.026
536	10/21/2011 16:17	0.07	0	0.025
537	10/21/2011 16:18	0.627	0.038	0.182
538	10/21/2011 16:19	0.109	0	0.015
539	10/21/2011 16:20	0.595	0	0.253

540	10/21/2011 16:21	0.061	0	0.017
541	10/21/2011 16:22	0.004	0	0
542	10/21/2011 16:23	0.09	0	0.042
543	10/21/2011 16:24	0.05	0	0.019
544	10/21/2011 16:25	0.101	0	0.052
545	10/21/2011 16:26	0.047	0	0.016
546	10/21/2011 16:27	0.067	0	0.011
547	10/21/2011 16:28	0.035	0	0.005
548	10/21/2011 16:29	0.012	0	0.002
549	10/21/2011 16:30	0.014	0	0.001
550	10/21/2011 16:31	0.036	0	0.008
551	10/21/2011 16:32	0.06	0	0.015
552	10/21/2011 16:33	0.036	0	0.006
553	10/21/2011 16:34	13.777	0	6.992

==========Event #10 information (end)==========

=========Event #12 information (begin)=========

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[Event #12 name:]--[Event #12]2011-10-22 07:29<-->2011-10-22 19:06

[Event start time:]--2011-10-22 07:29:26[Event end time:]--2011-10-22 19:06:26

==========Event #12 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 697 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

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Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-22 07:29:002011-10-22 07:29:002011-10-22 07:29:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

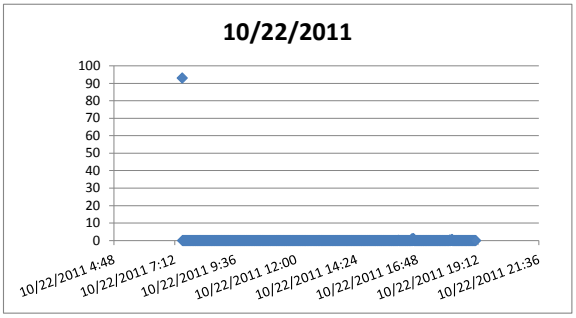
High Alarm Levels : 18.902 18.902 18.902

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #12 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/22/2011 7:30	93.025	0	21.264
2	10/22/2011 7:31	0	0	0
3	10/22/2011 7:32	0	0	0
4	10/22/2011 7:33	0	0	0
5	10/22/2011 7:34	0	0	0
6	10/22/2011 7:35	0	0	0
7	10/22/2011 7:36	0	0	0
8	10/22/2011 7:37	0	0	0
9	10/22/2011 7:38	0	0	0
10	10/22/2011 7:39	0	0	0
11	10/22/2011 7:40	0	0	0
12	10/22/2011 7:41	0	0	0
13	10/22/2011 7:42	0	0	0
14	10/22/2011 7:43	0	0	0
15	10/22/2011 7:44	0	0	0
16	10/22/2011 7:45	0	0	0
17	10/22/2011 7:46	0	0	0
18	10/22/2011 7:47	0	0	0
19	10/22/2011 7:48	0	0	0
20	10/22/2011 7:49	0	0	0
21	10/22/2011 7:50	0	0	0
22	10/22/2011 7:51	0	0	0
23	10/22/2011 7:52	0	0	0
24	10/22/2011 7:53	0	0	0
25	10/22/2011 7:54	0	0	0
26	10/22/2011 7:55	0	0	0
27	10/22/2011 7:56	0	0	0
28	10/22/2011 7:57	0	0	0
29	10/22/2011 7:58	0	0	0
30	10/22/2011 7:59	0	0	0
31	10/22/2011 8:00	0	0	0
32	10/22/2011 8:01	0	0	0
33	10/22/2011 8:02	0	0	0
34	10/22/2011 8:03	0	0	0
35	10/22/2011 8:04	0	0	0
36	10/22/2011 8:05	0	0	0
37	10/22/2011 8:06	0	0	0
38	10/22/2011 8:07	0	0	0
39	10/22/2011 8:08	0	0	0
40	10/22/2011 8:09	0	0	0
41	10/22/2011 8:10	0	0	0
42	10/22/2011 8:11	0	0	0
43	10/22/2011 8:12	0	0	0
44	10/22/2011 8:13	0	0	0
45	10/22/2011 8:14	0	0	0
46	10/22/2011 8:15	0	0	0
47	10/22/2011 8:16	0	0	0
48	10/22/2011 8:17	0	0	0
49	10/22/2011 8:18	0	0	0
50	10/22/2011 8:19	0	0	0
51	10/22/2011 8:20	0	0	0
52	10/22/2011 8:21	0	0	0
53	10/22/2011 8:22	0	0	0
54	10/22/2011 8:23	0	0	0
55	10/22/2011 8:24	0	0	0
56	10/22/2011 8:25	0	0	0
57	10/22/2011 8:26	0	0	0
58	10/22/2011 8:27	0	0	0
59	10/22/2011 8:28	0	0	0
60	10/22/2011 8:29	0	0	0
61	10/22/2011 8:30	0	0	0
62	10/22/2011 8:31	0	0	0
63	10/22/2011 8:32	0	0	0

64	10/22/2011 8:33	0	0	0
65	10/22/2011 8:34	0	0	0
66	10/22/2011 8:35	0	0	0
67	10/22/2011 8:36	0	0	0
68	10/22/2011 8:37	0	0	0
69	10/22/2011 8:38	0	0	0
70	10/22/2011 8:39	0	0	0
71	10/22/2011 8:40	0	0	0
72	10/22/2011 8:41	0	0	0
73	10/22/2011 8:42	0	0	0
74	10/22/2011 8:43	0	0	0
75	10/22/2011 8:44	0	0	0
76	10/22/2011 8:45	0	0	0
77	10/22/2011 8:46	0	0	0
78	10/22/2011 8:47	0	0	0
79	10/22/2011 8:48	0	0	0
80	10/22/2011 8:49	0	0	0
81	10/22/2011 8:50	0	0	0
82	10/22/2011 8:51	0	0	0
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533	10/22/2011 16:22	0	0	0
534	10/22/2011 16:23	0	0	0
535	10/22/2011 16:24	0	0	0
536	10/22/2011 16:25	0	0	0
537	10/22/2011 16:26	0	0	0
538	10/22/2011 16:27	0	0	0
539	10/22/2011 16:28	0	0	0
540	10/22/2011 16:29	0	0	0
541	10/22/2011 16:30	0	0	0
542	10/22/2011 16:31	0	0	0
543	10/22/2011 16:32	0	0	0
544	10/22/2011 16:33	0	0	0
545	10/22/2011 16:34	0	0	0
546	10/22/2011 16:35	0.849	0	0.099
547	10/22/2011 16:36	0	0	0
548	10/22/2011 16:37	0	0	0
549	10/22/2011 16:38	1.044	0	0.19
550	10/22/2011 16:39	0.833	0	0.113
551	10/22/2011 16:40	0	0	0
552	10/22/2011 16:41	0	0	0
553	10/22/2011 16:42	0	0	0
554	10/22/2011 16:43	0	0	0
555	10/22/2011 16:44	0	0	0
556	10/22/2011 16:45	0	0	0
557	10/22/2011 16:46	0	0	0
558	10/22/2011 16:47	0	0	0
559	10/22/2011 16:48	0	0	0
560	10/22/2011 16:49	0	0	0
561	10/22/2011 16:50	0	0	0
562	10/22/2011 16:51	0	0	0
563	10/22/2011 16:52	0	0	0
564	10/22/2011 16:53	0	0	0
565	10/22/2011 16:54	0	0	0
566	10/22/2011 16:55	0	0	0
567	10/22/2011 16:56	0	0	0

568	10/22/2011 16:57	0	0	0
569	10/22/2011 16:58	0	0	0
570	10/22/2011 16:59	0	0	0
571	10/22/2011 17:00	0	0	0
572	10/22/2011 17:01	0	0	0
573	10/22/2011 17:02	0	0	0
574	10/22/2011 17:03	0	0	0
575	10/22/2011 17:04	0	0	0
576	10/22/2011 17:05	0	0	0
577	10/22/2011 17:06	0	0	0
578	10/22/2011 17:07	0	0	0
579	10/22/2011 17:08	0	0	0
580	10/22/2011 17:09	0	0	0
581	10/22/2011 17:10	0	0	0
582	10/22/2011 17:11	0	0	0
583	10/22/2011 17:12	0	0	0
584	10/22/2011 17:13	0	0	0
585	10/22/2011 17:14	0	0	0
586	10/22/2011 17:15	0	0	0
587	10/22/2011 17:16	0	0	0
588	10/22/2011 17:17	0	0	0
589	10/22/2011 17:18	0	0	0
590	10/22/2011 17:19	0	0	0
591	10/22/2011 17:20	0	0	0
592	10/22/2011 17:21	0	0	0
593	10/22/2011 17:22	0	0	0
594	10/22/2011 17:23	0	0	0
595	10/22/2011 17:24	0	0	0
596	10/22/2011 17:25	0	0	0
597	10/22/2011 17:26	0	0	0
598	10/22/2011 17:27	0	0	0
599	10/22/2011 17:28	0	0	0
600	10/22/2011 17:29	0	0	0
601	10/22/2011 17:30	0	0	0
602	10/22/2011 17:31	0	0	0
603	10/22/2011 17:32	0	0	0
604	10/22/2011 17:33	0	0	0
605	10/22/2011 17:34	0	0	0
606	10/22/2011 17:35	0	0	0
607	10/22/2011 17:36	0	0	0
608	10/22/2011 17:37	0	0	0
609	10/22/2011 17:38	0	0	0
610	10/22/2011 17:39	0	0	0
611	10/22/2011 17:40	0	0	0
612	10/22/2011 17:41	0	0	0
613	10/22/2011 17:42	0	0	0
614	10/22/2011 17:43	0	0	0
615	10/22/2011 17:44	0	0	0
616	10/22/2011 17:45	0	0	0
617	10/22/2011 17:46	0	0	0
618	10/22/2011 17:47	0	0	0
619	10/22/2011 17:48	0	0	0
620	10/22/2011 17:49	0	0	0
621	10/22/2011 17:50	0	0	0
622	10/22/2011 17:51	0	0	0
623	10/22/2011 17:52	0	0	0
624	10/22/2011 17:53	0	0	0
625	10/22/2011 17:54	0	0	0
626	10/22/2011 17:55	0	0	0
627	10/22/2011 17:56	0	0	0
628	10/22/2011 17:57	0	0	0
629	10/22/2011 17:58	0	0	0
630	10/22/2011 17:59	0	0	0
631	10/22/2011 18:00	0	0	0
632	10/22/2011 18:01	0	0	0
633	10/22/2011 18:02	0	0	0
634	10/22/2011 18:03	0	0	0
635	10/22/2011 18:04	0	0	0
636	10/22/2011 18:05	0.231	0	0.027
637	10/22/2011 18:06	0	0	0
638	10/22/2011 18:07	0	0	0
639	10/22/2011 18:08	0.058	0	0.001
640	10/22/2011 18:09	0.138	0	0.012
641	10/22/2011 18:10	0.601	0	0.108
642	10/22/2011 18:11	0	0	0
643	10/22/2011 18:12	0	0	0
644	10/22/2011 18:13	0	0	0
645	10/22/2011 18:14	0	0	0
646	10/22/2011 18:15	0	0	0
647	10/22/2011 18:16	0	0	0
648	10/22/2011 18:17	0	0	0
649	10/22/2011 18:18	0	0	0
650	10/22/2011 18:19	0	0	0
651	10/22/2011 18:20	0	0	0

652	10/22/2011 18:21	0	0	0
653	10/22/2011 18:22	0	0	0
654	10/22/2011 18:23	0	0	0
655	10/22/2011 18:24	0	0	0
656	10/22/2011 18:25	0	0	0
657	10/22/2011 18:26	0	0	0
658	10/22/2011 18:27	0	0	0
659	10/22/2011 18:28	0	0	0
660	10/22/2011 18:29	0	0	0
661	10/22/2011 18:30	0	0	0
662	10/22/2011 18:31	0	0	0
663	10/22/2011 18:32	0	0	0
664	10/22/2011 18:33	0	0	0
665	10/22/2011 18:34	0	0	0
666	10/22/2011 18:35	0	0	0
667	10/22/2011 18:36	0	0	0
668	10/22/2011 18:37	0	0	0
669	10/22/2011 18:38	0	0	0
670	10/22/2011 18:39	0	0	0
671	10/22/2011 18:40	0	0	0
672	10/22/2011 18:41	0	0	0
673	10/22/2011 18:42	0	0	0
674	10/22/2011 18:43	0	0	0
675	10/22/2011 18:44	0	0	0
676	10/22/2011 18:45	0	0	0
677	10/22/2011 18:46	0	0	0
678	10/22/2011 18:47	0	0	0
679	10/22/2011 18:48	0	0	0
680	10/22/2011 18:49	0	0	0
681	10/22/2011 18:50	0	0	0
682	10/22/2011 18:51	0	0	0
683	10/22/2011 18:52	0	0	0
684	10/22/2011 18:53	0	0	0
685	10/22/2011 18:54	0	0	0
686	10/22/2011 18:55	0	0	0
687	10/22/2011 18:56	0	0	0
688	10/22/2011 18:57	0	0	0
689	10/22/2011 18:58	0	0	0
690	10/22/2011 18:59	0	0	0
691	10/22/2011 19:00	0	0	0
692	10/22/2011 19:01	0	0	0
693	10/22/2011 19:02	0	0	0
694	10/22/2011 19:03	0	0	0
695	10/22/2011 19:04	0	0	0
696	10/22/2011 19:05	0	0	0
697	10/22/2011 19:06	0	0	0

==========Event #12 information (end)==========

=========Event #16 information (begin)=========

[Event #16 name:]--[Event #16]2011-10-23 09:54<-->2011-10-23 10:07

[Event start time:]--2011-10-23 09:54:58[Event end time:]--2011-10-23 10:07:58

==========Event #16 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 13 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-23 07:41:002011-10-23 07:41:002011-10-23 07:41:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

High Alarm Levels : 18.902 18.902 18.902

Span Value : 100.000 100.000 100.000

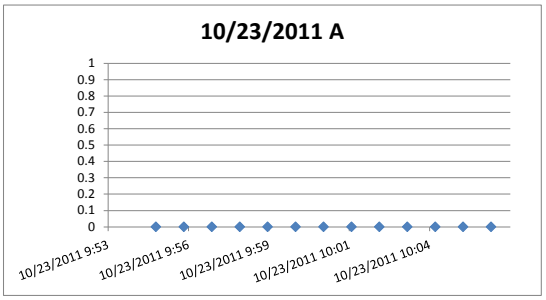
Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #16 data informations==========

LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/23/2011 9:55	0	0	0
2	10/23/2011 9:56	0	0	0
3	10/23/2011 9:57	0	0	0
4	10/23/2011 9:58	0	0	0
5	10/23/2011 9:59	0	0	0
6	10/23/2011 10:00	0	0	0
7	10/23/2011 10:01	0	0	0
8	10/23/2011 10:02	0	0	0
9	10/23/2011 10:03	0	0	0
10	10/23/2011 10:04	0	0	0
11	10/23/2011 10:05	0	0	0
12	10/23/2011 10:06	0	0	0
13	10/23/2011 10:07	0	0	0

==========Event #16 information (end)==========



=========Event #17 information (begin)=========

[Event #17 name:]--[Event #17]2011-10-23 10:08<-->2011-10-23 16:24

[Event start time:]--2011-10-23 10:08:55[Event end time:]--2011-10-23 16:24:55

==========Event #17 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 376 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-23 07:41:002011-10-23 07:41:002011-10-23 07:41:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

High Alarm Levels : 18.902 18.902 18.902

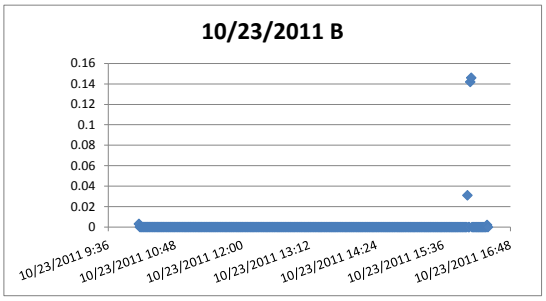
Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #17 data informations==========

LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/23/2011 10:09	0.003	0	0
2	10/23/2011 10:10	0	0	0
3	10/23/2011 10:11	0	0	0
4	10/23/2011 10:12	0	0	0
5	10/23/2011 10:13	0	0	0
6	10/23/2011 10:14	0	0	0
7	10/23/2011 10:15	0	0	0
8	10/23/2011 10:16	0	0	0
9	10/23/2011 10:17	0	0	0
10	10/23/2011 10:18	0	0	0
11	10/23/2011 10:19	0	0	0
12	10/23/2011 10:20	0	0	0
13	10/23/2011 10:21	0	0	0
14	10/23/2011 10:22	0	0	0
15	10/23/2011 10:23	0	0	0
16	10/23/2011 10:24	0	0	0
17	10/23/2011 10:25	0	0	0
18	10/23/2011 10:26	0	0	0
19	10/23/2011 10:27	0	0	0
20	10/23/2011 10:28	0	0	0
21	10/23/2011 10:29	0	0	0
22	10/23/2011 10:30	0	0	0
23	10/23/2011 10:31	0	0	0
24	10/23/2011 10:32	0	0	0
25	10/23/2011 10:33	0	0	0
26	10/23/2011 10:34	0	0	0
27	10/23/2011 10:35	0	0	0
28	10/23/2011 10:36	0	0	0
29	10/23/2011 10:37	0	0	0
30	10/23/2011 10:38	0	0	0
31	10/23/2011 10:39	0	0	0
32	10/23/2011 10:40	0	0	0



33	10/23/2011 10:41	0	0	0
34	10/23/2011 10:42	0	0	0
35	10/23/2011 10:43	0	0	0
36	10/23/2011 10:44	0	0	0
37	10/23/2011 10:45	0	0	0
38	10/23/2011 10:46	0	0	0
39	10/23/2011 10:47	0	0	0
40	10/23/2011 10:48	0	0	0
41	10/23/2011 10:49	0	0	0
42	10/23/2011 10:50	0	0	0
43	10/23/2011 10:51	0	0	0
44	10/23/2011 10:52	0	0	0
45	10/23/2011 10:53	0	0	0
46	10/23/2011 10:54	0	0	0
47	10/23/2011 10:55	0	0	0
48	10/23/2011 10:56	0	0	0
49	10/23/2011 10:57	0	0	0
50	10/23/2011 10:58	0	0	0
51	10/23/2011 10:59	0	0	0
52	10/23/2011 11:00	0	0	0
53	10/23/2011 11:01	0	0	0
54	10/23/2011 11:02	0	0	0
55	10/23/2011 11:03	0	0	0
56	10/23/2011 11:04	0	0	0
57	10/23/2011 11:05	0	0	0
58	10/23/2011 11:06	0	0	0
59	10/23/2011 11:07	0	0	0
60	10/23/2011 11:08	0	0	0
61	10/23/2011 11:09	0	0	0
62	10/23/2011 11:10	0	0	0
63	10/23/2011 11:11	0	0	0
64	10/23/2011 11:12	0	0	0
65	10/23/2011 11:13	0	0	0
66	10/23/2011 11:14	0	0	0
67	10/23/2011 11:15	0	0	0
68	10/23/2011 11:16	0	0	0
69	10/23/2011 11:17	0	0	0
70	10/23/2011 11:18	0	0	0
71	10/23/2011 11:19	0	0	0
72	10/23/2011 11:20	0	0	0
73	10/23/2011 11:21	0	0	0
74	10/23/2011 11:22	0	0	0
75	10/23/2011 11:23	0	0	0
76	10/23/2011 11:24	0	0	0
77	10/23/2011 11:25	0	0	0
78	10/23/2011 11:26	0	0	0
79	10/23/2011 11:27	0	0	0
80	10/23/2011 11:28	0	0	0
81	10/23/2011 11:29	0	0	0
82	10/23/2011 11:30	0	0	0
83	10/23/2011 11:31	0	0	0
84	10/23/2011 11:32	0	0	0
85	10/23/2011 11:33	0	0	0
86	10/23/2011 11:34	0	0	0
87	10/23/2011 11:35	0	0	0
88	10/23/2011 11:36	0	0	0
89	10/23/2011 11:37	0	0	0
90	10/23/2011 11:38	0	0	0
91	10/23/2011 11:39	0	0	0
92	10/23/2011 11:40	0	0	0
93	10/23/2011 11:41	0	0	0
94	10/23/2011 11:42	0	0	0
95	10/23/2011 11:43	0	0	0
96	10/23/2011 11:44	0	0	0
97	10/23/2011 11:45	0	0	0
98	10/23/2011 11:46	0	0	0
99	10/23/2011 11:47	0	0	0
100	10/23/2011 11:48	0	0	0
101	10/23/2011 11:49	0	0	0
102	10/23/2011 11:50	0	0	0
103	10/23/2011 11:51	0	0	0
104	10/23/2011 11:52	0	0	0
105	10/23/2011 11:53	0	0	0
106	10/23/2011 11:54	0	0	0
107	10/23/2011 11:55	0	0	0
108	10/23/2011 11:56	0	0	0
109	10/23/2011 11:57	0	0	0
110	10/23/2011 11:58	0	0	0
111	10/23/2011 11:59	0	0	0
112	10/23/2011 12:00	0	0	0
113	10/23/2011 12:01	0	0	0
114	10/23/2011 12:02	0	0	0
115	10/23/2011 12:03	0	0	0
116	10/23/2011 12:04	0	0	0
117	10/23/2011 12:05	0	0	0
118	10/23/2011 12:06	0	0	0
119	10/23/2011 12:07	0	0	0
120	10/23/2011 12:08	0	0	0
121	10/23/2011 12:09	0	0	0
122	10/23/2011 12:10	0	0	0

123	10/23/2011 12:11	0	0	0
124	10/23/2011 12:12	0	0	0
125	10/23/2011 12:13	0	0	0
126	10/23/2011 12:14	0	0	0
127	10/23/2011 12:15	0	0	0
128	10/23/2011 12:16	0	0	0
129	10/23/2011 12:17	0	0	0
130	10/23/2011 12:18	0	0	0
131	10/23/2011 12:19	0	0	0
132	10/23/2011 12:20	0	0	0
133	10/23/2011 12:21	0	0	0
134	10/23/2011 12:22	0	0	0
135	10/23/2011 12:23	0	0	0
136	10/23/2011 12:24	0	0	0
137	10/23/2011 12:25	0	0	0
138	10/23/2011 12:26	0	0	0
139	10/23/2011 12:27	0	0	0
140	10/23/2011 12:28	0	0	0
141	10/23/2011 12:29	0	0	0
142	10/23/2011 12:30	0	0	0
143	10/23/2011 12:31	0	0	0
144	10/23/2011 12:32	0	0	0
145	10/23/2011 12:33	0	0	0
146	10/23/2011 12:34	0	0	0
147	10/23/2011 12:35	0	0	0
148	10/23/2011 12:36	0	0	0
149	10/23/2011 12:37	0	0	0
150	10/23/2011 12:38	0	0	0
151	10/23/2011 12:39	0	0	0
152	10/23/2011 12:40	0	0	0
153	10/23/2011 12:41	0	0	0
154	10/23/2011 12:42	0	0	0
155	10/23/2011 12:43	0	0	0
156	10/23/2011 12:44	0	0	0
157	10/23/2011 12:45	0	0	0
158	10/23/2011 12:46	0	0	0
159	10/23/2011 12:47	0	0	0
160	10/23/2011 12:48	0	0	0
161	10/23/2011 12:49	0	0	0
162	10/23/2011 12:50	0	0	0
163	10/23/2011 12:51	0	0	0
164	10/23/2011 12:52	0	0	0
165	10/23/2011 12:53	0	0	0
166	10/23/2011 12:54	0	0	0
167	10/23/2011 12:55	0	0	0
168	10/23/2011 12:56	0	0	0
169	10/23/2011 12:57	0	0	0
170	10/23/2011 12:58	0	0	0
171	10/23/2011 12:59	0	0	0
172	10/23/2011 13:00	0	0	0
173	10/23/2011 13:01	0	0	0
174	10/23/2011 13:02	0	0	0
175	10/23/2011 13:03	0	0	0
176	10/23/2011 13:04	0	0	0
177	10/23/2011 13:05	0	0	0
178	10/23/2011 13:06	0	0	0
179	10/23/2011 13:07	0	0	0
180	10/23/2011 13:08	0	0	0
181	10/23/2011 13:09	0	0	0
182	10/23/2011 13:10	0	0	0
183	10/23/2011 13:11	0	0	0
184	10/23/2011 13:12	0	0	0
185	10/23/2011 13:13	0	0	0
186	10/23/2011 13:14	0	0	0
187	10/23/2011 13:15	0	0	0
188	10/23/2011 13:16	0	0	0
189	10/23/2011 13:17	0	0	0
190	10/23/2011 13:18	0	0	0
191	10/23/2011 13:19	0	0	0
192	10/23/2011 13:20	0	0	0
193	10/23/2011 13:21	0	0	0
194	10/23/2011 13:22	0	0	0
195	10/23/2011 13:23	0	0	0
196	10/23/2011 13:24	0	0	0
197	10/23/2011 13:25	0	0	0
198	10/23/2011 13:26	0	0	0
199	10/23/2011 13:27	0	0	0
200	10/23/2011 13:28	0	0	0
201	10/23/2011 13:29	0	0	0
202	10/23/2011 13:30	0	0	0
203	10/23/2011 13:31	0	0	0
204	10/23/2011 13:32	0	0	0
205	10/23/2011 13:33	0	0	0
206	10/23/2011 13:34	0	0	0
207	10/23/2011 13:35	0	0	0
208	10/23/2011 13:36	0	0	0
209	10/23/2011 13:37	0	0	0
210	10/23/2011 13:38	0	0	0
211	10/23/2011 13:39	0	0	0
212	10/23/2011 13:40	0	0	0

213	10/23/2011 13:41	0	0	0
214	10/23/2011 13:42	0	0	0
215	10/23/2011 13:43	0	0	0
216	10/23/2011 13:44	0	0	0
217	10/23/2011 13:45	0	0	0
218	10/23/2011 13:46	0	0	0
219	10/23/2011 13:47	0	0	0
220	10/23/2011 13:48	0	0	0
221	10/23/2011 13:49	0	0	0
222	10/23/2011 13:50	0	0	0
223	10/23/2011 13:51	0	0	0
224	10/23/2011 13:52	0	0	0
225	10/23/2011 13:53	0	0	0
226	10/23/2011 13:54	0	0	0
227	10/23/2011 13:55	0	0	0
228	10/23/2011 13:56	0	0	0
229	10/23/2011 13:57	0	0	0
230	10/23/2011 13:58	0	0	0
231	10/23/2011 13:59	0	0	0
232	10/23/2011 14:00	0	0	0
233	10/23/2011 14:01	0	0	0
234	10/23/2011 14:02	0	0	0
235	10/23/2011 14:03	0	0	0
236	10/23/2011 14:04	0	0	0
237	10/23/2011 14:05	0	0	0
238	10/23/2011 14:06	0	0	0
239	10/23/2011 14:07	0	0	0
240	10/23/2011 14:08	0	0	0
241	10/23/2011 14:09	0	0	0
242	10/23/2011 14:10	0	0	0
243	10/23/2011 14:11	0	0	0
244	10/23/2011 14:12	0	0	0
245	10/23/2011 14:13	0	0	0
246	10/23/2011 14:14	0	0	0
247	10/23/2011 14:15	0	0	0
248	10/23/2011 14:16	0	0	0
249	10/23/2011 14:17	0	0	0
250	10/23/2011 14:18	0	0	0
251	10/23/2011 14:19	0	0	0
252	10/23/2011 14:20	0	0	0
253	10/23/2011 14:21	0	0	0
254	10/23/2011 14:22	0	0	0
255	10/23/2011 14:23	0	0	0
256	10/23/2011 14:24	0	0	0
257	10/23/2011 14:25	0	0	0
258	10/23/2011 14:26	0	0	0
259	10/23/2011 14:27	0	0	0
260	10/23/2011 14:28	0	0	0
261	10/23/2011 14:29	0	0	0
262	10/23/2011 14:30	0	0	0
263	10/23/2011 14:31	0	0	0
264	10/23/2011 14:32	0	0	0
265	10/23/2011 14:33	0	0	0
266	10/23/2011 14:34	0	0	0
267	10/23/2011 14:35	0	0	0
268	10/23/2011 14:36	0	0	0
269	10/23/2011 14:37	0	0	0
270	10/23/2011 14:38	0	0	0
271	10/23/2011 14:39	0	0	0
272	10/23/2011 14:40	0	0	0
273	10/23/2011 14:41	0	0	0
274	10/23/2011 14:42	0	0	0
275	10/23/2011 14:43	0	0	0
276	10/23/2011 14:44	0	0	0
277	10/23/2011 14:45	0	0	0
278	10/23/2011 14:46	0	0	0
279	10/23/2011 14:47	0	0	0
280	10/23/2011 14:48	0	0	0
281	10/23/2011 14:49	0	0	0
282	10/23/2011 14:50	0	0	0
283	10/23/2011 14:51	0	0	0
284	10/23/2011 14:52	0	0	0
285	10/23/2011 14:53	0	0	0
286	10/23/2011 14:54	0	0	0
287	10/23/2011 14:55	0	0	0
288	10/23/2011 14:56	0	0	0
289	10/23/2011 14:57	0	0	0
290	10/23/2011 14:58	0	0	0
291	10/23/2011 14:59	0	0	0
292	10/23/2011 15:00	0	0	0
293	10/23/2011 15:01	0	0	0
294	10/23/2011 15:02	0	0	0
295	10/23/2011 15:03	0	0	0
296	10/23/2011 15:04	0	0	0
297	10/23/2011 15:05	0	0	0
298	10/23/2011 15:06	0	0	0
299	10/23/2011 15:07	0	0	0
300	10/23/2011 15:08	0	0	0
301	10/23/2011 15:09	0	0	0
302	10/23/2011 15:10	0	0	0

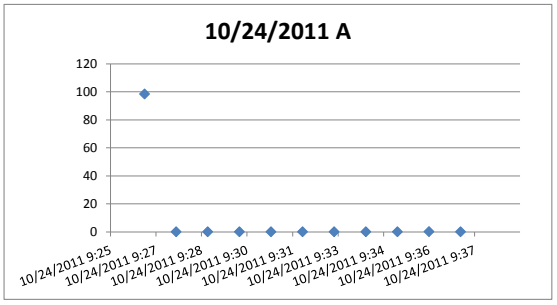
303	10/23/2011 15:11	0	0	0
304	10/23/2011 15:12	0	0	0
305	10/23/2011 15:13	0	0	0
306	10/23/2011 15:14	0	0	0
307	10/23/2011 15:15	0	0	0
308	10/23/2011 15:16	0	0	0
309	10/23/2011 15:17	0	0	0
310	10/23/2011 15:18	0	0	0
311	10/23/2011 15:19	0	0	0
312	10/23/2011 15:20	0	0	0
313	10/23/2011 15:21	0	0	0
314	10/23/2011 15:22	0	0	0
315	10/23/2011 15:23	0	0	0
316	10/23/2011 15:24	0	0	0
317	10/23/2011 15:25	0	0	0
318	10/23/2011 15:26	0	0	0
319	10/23/2011 15:27	0	0	0
320	10/23/2011 15:28	0	0	0
321	10/23/2011 15:29	0	0	0
322	10/23/2011 15:30	0	0	0
323	10/23/2011 15:31	0	0	0
324	10/23/2011 15:32	0	0	0
325	10/23/2011 15:33	0	0	0
326	10/23/2011 15:34	0	0	0
327	10/23/2011 15:35	0	0	0
328	10/23/2011 15:36	0	0	0
329	10/23/2011 15:37	0	0	0
330	10/23/2011 15:38	0	0	0
331	10/23/2011 15:39	0	0	0
332	10/23/2011 15:40	0	0	0
333	10/23/2011 15:41	0	0	0
334	10/23/2011 15:42	0	0	0
335	10/23/2011 15:43	0	0	0
336	10/23/2011 15:44	0	0	0
337	10/23/2011 15:45	0	0	0
338	10/23/2011 15:46	0	0	0
339	10/23/2011 15:47	0	0	0
340	10/23/2011 15:48	0	0	0
341	10/23/2011 15:49	0	0	0
342	10/23/2011 15:50	0	0	0
343	10/23/2011 15:51	0	0	0
344	10/23/2011 15:52	0	0	0
345	10/23/2011 15:53	0	0	0
346	10/23/2011 15:54	0	0	0
347	10/23/2011 15:55	0	0	0
348	10/23/2011 15:56	0	0	0
349	10/23/2011 15:57	0	0	0
350	10/23/2011 15:58	0	0	0
351	10/23/2011 15:59	0	0	0
352	10/23/2011 16:00	0	0	0
353	10/23/2011 16:01	0	0	0
354	10/23/2011 16:02	0.031	0	0.002
355	10/23/2011 16:03	0	0	0
356	10/23/2011 16:04	0	0	0
357	10/23/2011 16:05	0.142	0	0.008
358	10/23/2011 16:06	0.146	0	0.01
359	10/23/2011 16:07	0	0	0
360	10/23/2011 16:08	0	0	0
361	10/23/2011 16:09	0	0	0
362	10/23/2011 16:10	0	0	0
363	10/23/2011 16:11	0	0	0
364	10/23/2011 16:12	0	0	0
365	10/23/2011 16:13	0	0	0
366	10/23/2011 16:14	0	0	0
367	10/23/2011 16:15	0	0	0
368	10/23/2011 16:16	0	0	0
369	10/23/2011 16:17	0	0	0
370	10/23/2011 16:18	0	0	0
371	10/23/2011 16:19	0	0	0
372	10/23/2011 16:20	0	0	0
373	10/23/2011 16:21	0	0	0
374	10/23/2011 16:22	0	0	0
375	10/23/2011 16:23	0.002	0	0
376	10/23/2011 16:24	0	0	0

==========Event #17 information (end)==========

=========Event #20 information (begin)=========
==========
[Event #20 name:]--[Event #20]2011-10-24 09:26<-->2011-10-24 09:37
[Event start time:]--2011-10-24 09:26:12[Event end time:]--2011-10-24 09:37:12
==========Event #20 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 11 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-10-24 09:24:002011-10-24 09:24:002011-10-24 09:24:00
Drift Value : --- --- ---
Low Alarm Levels : 9.451 9.451 9.451
High Alarm Levels : 18.902 18.902 18.902
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #20 data informations==========

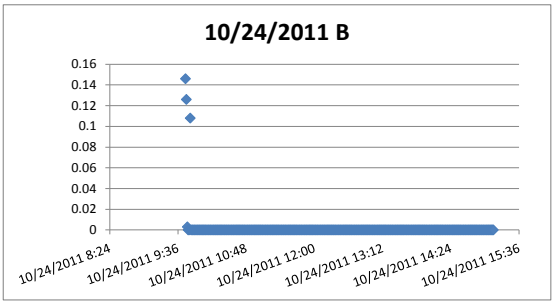
LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/24/2011 9:27	98.391	0	15.036
2	10/24/2011 9:28	0.069	0	0.022
3	10/24/2011 9:29	0.002	0	0
4	10/24/2011 9:30	0	0	0
5	10/24/2011 9:31	0.002	0	0
6	10/24/2011 9:32	0	0	0
7	10/24/2011 9:33	0.001	0	0
8	10/24/2011 9:34	0.006	0	0.001
9	10/24/2011 9:35	0.068	0	0.042
10	10/24/2011 9:36	0.102	0.017	0.068
11	10/24/2011 9:37	0.022	0	0.007

==========Event #20 information (end)==========



=========Event #21 information (begin)=========
==========
[Event #21 name:]--[Event #21]2011-10-24 09:43<-->2011-10-24 15:09
[Event start time:]--2011-10-24 09:43:52[Event end time:]--2011-10-24 15:09:52
==========Event #21 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624
Data Points: 326 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)
Measurement Gas : Isobutene
Calibration Time : 2011-10-24 09:24:002011-10-24 09:24:002011-10-24 09:24:00
Drift Value : --- --- ---
Low Alarm Levels : 9.451 9.451 9.451
High Alarm Levels : 18.902 18.902 18.902
Span Value : 100.000 100.000 100.000
Correction Factor : 1.00 1.00 1.00
Over Alarm Levels : 15000.000 15000.000 15000.000
==========Event #21 data informations==========

LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/24/2011 9:44	0.146	0.02	0.061
2	10/24/2011 9:45	0.126	0	0.031
3	10/24/2011 9:46	0.003	0	0
4	10/24/2011 9:47	0	0	0
5	10/24/2011 9:48	0	0	0
6	10/24/2011 9:49	0.108	0	0.007
7	10/24/2011 9:50	0	0	0
8	10/24/2011 9:51	0	0	0
9	10/24/2011 9:52	0	0	0
10	10/24/2011 9:53	0	0	0
11	10/24/2011 9:54	0	0	0
12	10/24/2011 9:55	0	0	0
13	10/24/2011 9:56	0	0	0
14	10/24/2011 9:57	0	0	0
15	10/24/2011 9:58	0	0	0
16	10/24/2011 9:59	0	0	0
17	10/24/2011 10:00	0	0	0
18	10/24/2011 10:01	0	0	0
19	10/24/2011 10:02	0	0	0
20	10/24/2011 10:03	0	0	0
21	10/24/2011 10:04	0	0	0
22	10/24/2011 10:05	0	0	0
23	10/24/2011 10:06	0	0	0
24	10/24/2011 10:07	0	0	0
25	10/24/2011 10:08	0	0	0
26	10/24/2011 10:09	0	0	0
27	10/24/2011 10:10	0	0	0
28	10/24/2011 10:11	0	0	0
29	10/24/2011 10:12	0	0	0
30	10/24/2011 10:13	0	0	0
31	10/24/2011 10:14	0	0	0
32	10/24/2011 10:15	0	0	0



33	10/24/2011 10:16	0	0	0
34	10/24/2011 10:17	0	0	0
35	10/24/2011 10:18	0	0	0
36	10/24/2011 10:19	0	0	0
37	10/24/2011 10:20	0	0	0
38	10/24/2011 10:21	0	0	0
39	10/24/2011 10:22	0	0	0
40	10/24/2011 10:23	0	0	0
41	10/24/2011 10:24	0	0	0
42	10/24/2011 10:25	0	0	0
43	10/24/2011 10:26	0	0	0
44	10/24/2011 10:27	0	0	0
45	10/24/2011 10:28	0	0	0
46	10/24/2011 10:29	0	0	0
47	10/24/2011 10:30	0	0	0
48	10/24/2011 10:31	0	0	0
49	10/24/2011 10:32	0	0	0
50	10/24/2011 10:33	0	0	0
51	10/24/2011 10:34	0	0	0
52	10/24/2011 10:35	0	0	0
53	10/24/2011 10:36	0	0	0
54	10/24/2011 10:37	0	0	0
55	10/24/2011 10:38	0	0	0
56	10/24/2011 10:39	0	0	0
57	10/24/2011 10:40	0	0	0
58	10/24/2011 10:41	0	0	0
59	10/24/2011 10:42	0	0	0
60	10/24/2011 10:43	0	0	0
61	10/24/2011 10:44	0	0	0
62	10/24/2011 10:45	0	0	0
63	10/24/2011 10:46	0	0	0
64	10/24/2011 10:47	0	0	0
65	10/24/2011 10:48	0	0	0
66	10/24/2011 10:49	0	0	0
67	10/24/2011 10:50	0	0	0
68	10/24/2011 10:51	0	0	0
69	10/24/2011 10:52	0	0	0
70	10/24/2011 10:53	0	0	0
71	10/24/2011 10:54	0	0	0
72	10/24/2011 10:55	0	0	0
73	10/24/2011 10:56	0	0	0
74	10/24/2011 10:57	0	0	0
75	10/24/2011 10:58	0	0	0
76	10/24/2011 10:59	0	0	0
77	10/24/2011 11:00	0	0	0
78	10/24/2011 11:01	0	0	0
79	10/24/2011 11:02	0	0	0
80	10/24/2011 11:03	0	0	0
81	10/24/2011 11:04	0	0	0
82	10/24/2011 11:05	0	0	0
83	10/24/2011 11:06	0	0	0
84	10/24/2011 11:07	0	0	0
85	10/24/2011 11:08	0	0	0
86	10/24/2011 11:09	0	0	0
87	10/24/2011 11:10	0	0	0
88	10/24/2011 11:11	0	0	0
89	10/24/2011 11:12	0	0	0
90	10/24/2011 11:13	0	0	0
91	10/24/2011 11:14	0	0	0
92	10/24/2011 11:15	0	0	0
93	10/24/2011 11:16	0	0	0
94	10/24/2011 11:17	0	0	0
95	10/24/2011 11:18	0	0	0
96	10/24/2011 11:19	0	0	0
97	10/24/2011 11:20	0	0	0
98	10/24/2011 11:21	0	0	0
99	10/24/2011 11:22	0	0	0
100	10/24/2011 11:23	0	0	0
101	10/24/2011 11:24	0	0	0
102	10/24/2011 11:25	0	0	0
103	10/24/2011 11:26	0	0	0
104	10/24/2011 11:27	0	0	0
105	10/24/2011 11:28	0	0	0
106	10/24/2011 11:29	0	0	0
107	10/24/2011 11:30	0	0	0
108	10/24/2011 11:31	0	0	0
109	10/24/2011 11:32	0	0	0
110	10/24/2011 11:33	0	0	0
111	10/24/2011 11:34	0	0	0
112	10/24/2011 11:35	0	0	0
113	10/24/2011 11:36	0	0	0
114	10/24/2011 11:37	0	0	0
115	10/24/2011 11:38	0	0	0
116	10/24/2011 11:39	0	0	0
117	10/24/2011 11:40	0	0	0
118	10/24/2011 11:41	0	0	0
119	10/24/2011 11:42	0	0	0
120	10/24/2011 11:43	0	0	0

121	10/24/2011 11:44	0	0	0
122	10/24/2011 11:45	0	0	0
123	10/24/2011 11:46	0	0	0
124	10/24/2011 11:47	0	0	0
125	10/24/2011 11:48	0	0	0
126	10/24/2011 11:49	0	0	0
127	10/24/2011 11:50	0	0	0
128	10/24/2011 11:51	0	0	0
129	10/24/2011 11:52	0	0	0
130	10/24/2011 11:53	0	0	0
131	10/24/2011 11:54	0	0	0
132	10/24/2011 11:55	0	0	0
133	10/24/2011 11:56	0	0	0
134	10/24/2011 11:57	0	0	0
135	10/24/2011 11:58	0	0	0
136	10/24/2011 11:59	0	0	0
137	10/24/2011 12:00	0	0	0
138	10/24/2011 12:01	0	0	0
139	10/24/2011 12:02	0	0	0
140	10/24/2011 12:03	0	0	0
141	10/24/2011 12:04	0	0	0
142	10/24/2011 12:05	0	0	0
143	10/24/2011 12:06	0	0	0
144	10/24/2011 12:07	0	0	0
145	10/24/2011 12:08	0	0	0
146	10/24/2011 12:09	0	0	0
147	10/24/2011 12:10	0	0	0
148	10/24/2011 12:11	0	0	0
149	10/24/2011 12:12	0	0	0
150	10/24/2011 12:13	0	0	0
151	10/24/2011 12:14	0	0	0
152	10/24/2011 12:15	0	0	0
153	10/24/2011 12:16	0	0	0
154	10/24/2011 12:17	0	0	0
155	10/24/2011 12:18	0	0	0
156	10/24/2011 12:19	0	0	0
157	10/24/2011 12:20	0	0	0
158	10/24/2011 12:21	0	0	0
159	10/24/2011 12:22	0	0	0
160	10/24/2011 12:23	0	0	0
161	10/24/2011 12:24	0	0	0
162	10/24/2011 12:25	0	0	0
163	10/24/2011 12:26	0	0	0
164	10/24/2011 12:27	0	0	0
165	10/24/2011 12:28	0	0	0
166	10/24/2011 12:29	0	0	0
167	10/24/2011 12:30	0	0	0
168	10/24/2011 12:31	0	0	0
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170	10/24/2011 12:33	0	0	0
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172	10/24/2011 12:35	0	0	0
173	10/24/2011 12:36	0	0	0
174	10/24/2011 12:37	0	0	0
175	10/24/2011 12:38	0	0	0
176	10/24/2011 12:39	0	0	0
177	10/24/2011 12:40	0	0	0
178	10/24/2011 12:41	0	0	0
179	10/24/2011 12:42	0	0	0
180	10/24/2011 12:43	0	0	0
181	10/24/2011 12:44	0	0	0
182	10/24/2011 12:45	0	0	0
183	10/24/2011 12:46	0	0	0
184	10/24/2011 12:47	0	0	0
185	10/24/2011 12:48	0	0	0
186	10/24/2011 12:49	0	0	0
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188	10/24/2011 12:51	0	0	0
189	10/24/2011 12:52	0	0	0
190	10/24/2011 12:53	0	0	0
191	10/24/2011 12:54	0	0	0
192	10/24/2011 12:55	0	0	0
193	10/24/2011 12:56	0	0	0
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200	10/24/2011 13:03	0	0	0
201	10/24/2011 13:04	0	0	0
202	10/24/2011 13:05	0	0	0
203	10/24/2011 13:06	0	0	0
204	10/24/2011 13:07	0	0	0
205	10/24/2011 13:08	0	0	0
206	10/24/2011 13:09	0	0	0
207	10/24/2011 13:10	0	0	0
208	10/24/2011 13:11	0	0	0

209	10/24/2011 13:12	0	0	0
210	10/24/2011 13:13	0	0	0
211	10/24/2011 13:14	0	0	0
212	10/24/2011 13:15	0	0	0
213	10/24/2011 13:16	0	0	0
214	10/24/2011 13:17	0	0	0
215	10/24/2011 13:18	0	0	0
216	10/24/2011 13:19	0	0	0
217	10/24/2011 13:20	0	0	0
218	10/24/2011 13:21	0	0	0
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220	10/24/2011 13:23	0	0	0
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222	10/24/2011 13:25	0	0	0
223	10/24/2011 13:26	0	0	0
224	10/24/2011 13:27	0	0	0
225	10/24/2011 13:28	0	0	0
226	10/24/2011 13:29	0	0	0
227	10/24/2011 13:30	0	0	0
228	10/24/2011 13:31	0	0	0
229	10/24/2011 13:32	0	0	0
230	10/24/2011 13:33	0	0	0
231	10/24/2011 13:34	0	0	0
232	10/24/2011 13:35	0	0	0
233	10/24/2011 13:36	0	0	0
234	10/24/2011 13:37	0	0	0
235	10/24/2011 13:38	0	0	0
236	10/24/2011 13:39	0	0	0
237	10/24/2011 13:40	0	0	0
238	10/24/2011 13:41	0	0	0
239	10/24/2011 13:42	0	0	0
240	10/24/2011 13:43	0	0	0
241	10/24/2011 13:44	0	0	0
242	10/24/2011 13:45	0	0	0
243	10/24/2011 13:46	0	0	0
244	10/24/2011 13:47	0	0	0
245	10/24/2011 13:48	0	0	0
246	10/24/2011 13:49	0	0	0
247	10/24/2011 13:50	0	0	0
248	10/24/2011 13:51	0	0	0
249	10/24/2011 13:52	0	0	0
250	10/24/2011 13:53	0	0	0
251	10/24/2011 13:54	0	0	0
252	10/24/2011 13:55	0	0	0
253	10/24/2011 13:56	0	0	0
254	10/24/2011 13:57	0	0	0
255	10/24/2011 13:58	0	0	0
256	10/24/2011 13:59	0	0	0
257	10/24/2011 14:00	0	0	0
258	10/24/2011 14:01	0	0	0
259	10/24/2011 14:02	0	0	0
260	10/24/2011 14:03	0	0	0
261	10/24/2011 14:04	0	0	0
262	10/24/2011 14:05	0	0	0
263	10/24/2011 14:06	0	0	0
264	10/24/2011 14:07	0	0	0
265	10/24/2011 14:08	0	0	0
266	10/24/2011 14:09	0	0	0
267	10/24/2011 14:10	0	0	0
268	10/24/2011 14:11	0	0	0
269	10/24/2011 14:12	0	0	0
270	10/24/2011 14:13	0	0	0
271	10/24/2011 14:14	0	0	0
272	10/24/2011 14:15	0	0	0
273	10/24/2011 14:16	0	0	0
274	10/24/2011 14:17	0	0	0
275	10/24/2011 14:18	0	0	0
276	10/24/2011 14:19	0	0	0
277	10/24/2011 14:20	0	0	0
278	10/24/2011 14:21	0	0	0
279	10/24/2011 14:22	0	0	0
280	10/24/2011 14:23	0	0	0
281	10/24/2011 14:24	0	0	0
282	10/24/2011 14:25	0	0	0
283	10/24/2011 14:26	0	0	0
284	10/24/2011 14:27	0	0	0
285	10/24/2011 14:28	0	0	0
286	10/24/2011 14:29	0	0	0
287	10/24/2011 14:30	0	0	0
288	10/24/2011 14:31	0	0	0
289	10/24/2011 14:32	0	0	0
290	10/24/2011 14:33	0	0	0
291	10/24/2011 14:34	0	0	0
292	10/24/2011 14:35	0	0	0
293	10/24/2011 14:36	0	0	0
294	10/24/2011 14:37	0	0	0
295	10/24/2011 14:38	0	0	0
296	10/24/2011 14:39	0	0	0

297	10/24/2011 14:40	0	0	0
298	10/24/2011 14:41	0	0	0
299	10/24/2011 14:42	0	0	0
300	10/24/2011 14:43	0	0	0
301	10/24/2011 14:44	0	0	0
302	10/24/2011 14:45	0	0	0
303	10/24/2011 14:46	0	0	0
304	10/24/2011 14:47	0	0	0
305	10/24/2011 14:48	0	0	0
306	10/24/2011 14:49	0	0	0
307	10/24/2011 14:50	0	0	0
308	10/24/2011 14:51	0	0	0
309	10/24/2011 14:52	0	0	0
310	10/24/2011 14:53	0	0	0
311	10/24/2011 14:54	0	0	0
312	10/24/2011 14:55	0	0	0
313	10/24/2011 14:56	0	0	0
314	10/24/2011 14:57	0	0	0
315	10/24/2011 14:58	0	0	0
316	10/24/2011 14:59	0	0	0
317	10/24/2011 15:00	0	0	0
318	10/24/2011 15:01	0	0	0
319	10/24/2011 15:02	0	0	0
320	10/24/2011 15:03	0	0	0
321	10/24/2011 15:04	0	0	0
322	10/24/2011 15:05	0	0	0
323	10/24/2011 15:06	0	0	0
324	10/24/2011 15:07	0	0	0
325	10/24/2011 15:08	0	0	0
326	10/24/2011 15:09	0	0	0

==========Event #21 information (end)==========

=========Event #25 information (begin)=========

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[Event #25 name:]--[Event #25]2011-10-25 09:38<-->2011-10-25 14:47

[Event start time:]--2011-10-25 09:38:39[Event end time:]--2011-10-25 14:47:39

==========Event #25 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 309 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

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Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-25 09:00:002011-10-25 09:00:002011-10-25 09:00:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

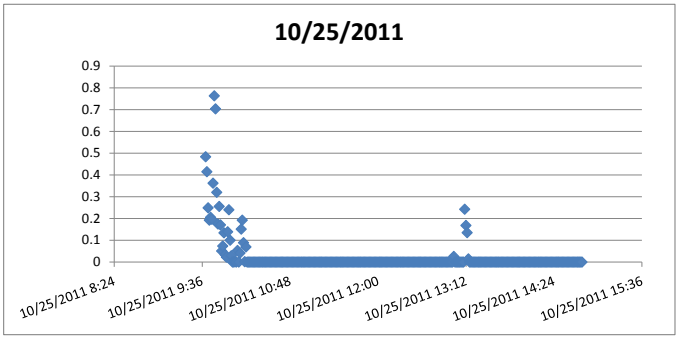
High Alarm Levels : 18.902 18.902 18.902

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #25 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/25/2011 9:39	0.483	0.121	0.423
2	10/25/2011 9:40	0.414	0.242	0.322
3	10/25/2011 9:41	0.249	0.19	0.218
4	10/25/2011 9:42	0.192	0.164	0.177
5	10/25/2011 9:43	0.205	0.161	0.174
6	10/25/2011 9:44	0.196	0.147	0.164
7	10/25/2011 9:45	0.362	0.135	0.202
8	10/25/2011 9:46	0.763	0.305	0.513
9	10/25/2011 9:47	0.703	0.252	0.388
10	10/25/2011 9:48	0.32	0.115	0.185
11	10/25/2011 9:49	0.174	0.094	0.12
12	10/25/2011 9:50	0.255	0.096	0.14
13	10/25/2011 9:51	0.17	0.034	0.089
14	10/25/2011 9:52	0.051	0.023	0.037
15	10/25/2011 9:53	0.073	0.027	0.044
16	10/25/2011 9:54	0.134	0.019	0.061
17	10/25/2011 9:55	0.034	0	0.003
18	10/25/2011 9:56	0.022	0	0.005
19	10/25/2011 9:57	0.139	0	0.045
20	10/25/2011 9:58	0.24	0.005	0.127
21	10/25/2011 9:59	0.1	0	0.044
22	10/25/2011 10:00	0.029	0	0.002
23	10/25/2011 10:01	0	0	0
24	10/25/2011 10:02	0	0	0
25	10/25/2011 10:03	0.001	0	0
26	10/25/2011 10:04	0	0	0
27	10/25/2011 10:05	0.053	0	0.004
28	10/25/2011 10:06	0	0	0
29	10/25/2011 10:07	0.041	0	0.001
30	10/25/2011 10:08	0.151	0	0.057
31	10/25/2011 10:09	0.192	0	0.049
32	10/25/2011 10:10	0.089	0	0.025
33	10/25/2011 10:11	0.001	0	0
34	10/25/2011 10:12	0.069	0	0.008
35	10/25/2011 10:13	0	0	0
36	10/25/2011 10:14	0	0	0
37	10/25/2011 10:15	0	0	0
38	10/25/2011 10:16	0	0	0
39	10/25/2011 10:17	0	0	0
40	10/25/2011 10:18	0	0	0
41	10/25/2011 10:19	0	0	0
42	10/25/2011 10:20	0	0	0
43	10/25/2011 10:21	0	0	0
44	10/25/2011 10:22	0	0	0
45	10/25/2011 10:23	0	0	0
46	10/25/2011 10:24	0	0	0
47	10/25/2011 10:25	0	0	0
48	10/25/2011 10:26	0	0	0
49	10/25/2011 10:27	0	0	0
50	10/25/2011 10:28	0	0	0
51	10/25/2011 10:29	0	0	0
52	10/25/2011 10:30	0	0	0
53	10/25/2011 10:31	0	0	0
54	10/25/2011 10:32	0	0	0
55	10/25/2011 10:33	0	0	0
56	10/25/2011 10:34	0	0	0
57	10/25/2011 10:35	0	0	0
58	10/25/2011 10:36	0	0	0
59	10/25/2011 10:37	0	0	0
60	10/25/2011 10:38	0	0	0
61	10/25/2011 10:39	0	0	0
62	10/25/2011 10:40	0	0	0
63	10/25/2011 10:41	0	0	0

64	10/25/2011 10:42	0	0	0
65	10/25/2011 10:43	0	0	0
66	10/25/2011 10:44	0	0	0
67	10/25/2011 10:45	0	0	0
68	10/25/2011 10:46	0	0	0
69	10/25/2011 10:47	0	0	0
70	10/25/2011 10:48	0	0	0
71	10/25/2011 10:49	0	0	0
72	10/25/2011 10:50	0	0	0
73	10/25/2011 10:51	0	0	0
74	10/25/2011 10:52	0	0	0
75	10/25/2011 10:53	0	0	0
76	10/25/2011 10:54	0	0	0
77	10/25/2011 10:55	0	0	0
78	10/25/2011 10:56	0	0	0
79	10/25/2011 10:57	0	0	0
80	10/25/2011 10:58	0	0	0
81	10/25/2011 10:59	0	0	0
82	10/25/2011 11:00	0	0	0
83	10/25/2011 11:01	0	0	0
84	10/25/2011 11:02	0	0	0
85	10/25/2011 11:03	0	0	0
86	10/25/2011 11:04	0	0	0
87	10/25/2011 11:05	0	0	0
88	10/25/2011 11:06	0	0	0
89	10/25/2011 11:07	0	0	0
90	10/25/2011 11:08	0	0	0
91	10/25/2011 11:09	0	0	0
92	10/25/2011 11:10	0	0	0
93	10/25/2011 11:11	0	0	0
94	10/25/2011 11:12	0	0	0
95	10/25/2011 11:13	0	0	0
96	10/25/2011 11:14	0	0	0
97	10/25/2011 11:15	0	0	0
98	10/25/2011 11:16	0	0	0
99	10/25/2011 11:17	0	0	0
100	10/25/2011 11:18	0	0	0
101	10/25/2011 11:19	0	0	0
102	10/25/2011 11:20	0	0	0
103	10/25/2011 11:21	0	0	0
104	10/25/2011 11:22	0	0	0
105	10/25/2011 11:23	0	0	0
106	10/25/2011 11:24	0	0	0
107	10/25/2011 11:25	0	0	0
108	10/25/2011 11:26	0	0	0
109	10/25/2011 11:27	0	0	0
110	10/25/2011 11:28	0	0	0
111	10/25/2011 11:29	0	0	0
112	10/25/2011 11:30	0	0	0
113	10/25/2011 11:31	0	0	0
114	10/25/2011 11:32	0	0	0
115	10/25/2011 11:33	0	0	0
116	10/25/2011 11:34	0	0	0
117	10/25/2011 11:35	0	0	0
118	10/25/2011 11:36	0	0	0
119	10/25/2011 11:37	0	0	0
120	10/25/2011 11:38	0	0	0
121	10/25/2011 11:39	0	0	0
122	10/25/2011 11:40	0	0	0
123	10/25/2011 11:41	0	0	0
124	10/25/2011 11:42	0	0	0
125	10/25/2011 11:43	0	0	0
126	10/25/2011 11:44	0	0	0
127	10/25/2011 11:45	0	0	0
128	10/25/2011 11:46	0	0	0
129	10/25/2011 11:47	0	0	0
130	10/25/2011 11:48	0	0	0
131	10/25/2011 11:49	0	0	0
132	10/25/2011 11:50	0	0	0
133	10/25/2011 11:51	0	0	0
134	10/25/2011 11:52	0	0	0
135	10/25/2011 11:53	0	0	0
136	10/25/2011 11:54	0	0	0
137	10/25/2011 11:55	0	0	0
138	10/25/2011 11:56	0	0	0
139	10/25/2011 11:57	0	0	0
140	10/25/2011 11:58	0	0	0
141	10/25/2011 11:59	0	0	0
142	10/25/2011 12:00	0	0	0
143	10/25/2011 12:01	0	0	0
144	10/25/2011 12:02	0	0	0
145	10/25/2011 12:03	0	0	0
146	10/25/2011 12:04	0	0	0
147	10/25/2011 12:05	0	0	0

148	10/25/2011 12:06	0	0	0
149	10/25/2011 12:07	0	0	0
150	10/25/2011 12:08	0	0	0
151	10/25/2011 12:09	0	0	0
152	10/25/2011 12:10	0	0	0
153	10/25/2011 12:11	0	0	0
154	10/25/2011 12:12	0	0	0
155	10/25/2011 12:13	0	0	0
156	10/25/2011 12:14	0	0	0
157	10/25/2011 12:15	0	0	0
158	10/25/2011 12:16	0	0	0
159	10/25/2011 12:17	0	0	0
160	10/25/2011 12:18	0	0	0
161	10/25/2011 12:19	0	0	0
162	10/25/2011 12:20	0	0	0
163	10/25/2011 12:21	0	0	0
164	10/25/2011 12:22	0	0	0
165	10/25/2011 12:23	0	0	0
166	10/25/2011 12:24	0	0	0
167	10/25/2011 12:25	0	0	0
168	10/25/2011 12:26	0	0	0
169	10/25/2011 12:27	0	0	0
170	10/25/2011 12:28	0	0	0
171	10/25/2011 12:29	0	0	0
172	10/25/2011 12:30	0	0	0
173	10/25/2011 12:31	0	0	0
174	10/25/2011 12:32	0	0	0
175	10/25/2011 12:33	0	0	0
176	10/25/2011 12:34	0	0	0
177	10/25/2011 12:35	0	0	0
178	10/25/2011 12:36	0	0	0
179	10/25/2011 12:37	0	0	0
180	10/25/2011 12:38	0	0	0
181	10/25/2011 12:39	0	0	0
182	10/25/2011 12:40	0	0	0
183	10/25/2011 12:41	0	0	0
184	10/25/2011 12:42	0	0	0
185	10/25/2011 12:43	0	0	0
186	10/25/2011 12:44	0	0	0
187	10/25/2011 12:45	0	0	0
188	10/25/2011 12:46	0	0	0
189	10/25/2011 12:47	0	0	0
190	10/25/2011 12:48	0	0	0
191	10/25/2011 12:49	0	0	0
192	10/25/2011 12:50	0	0	0
193	10/25/2011 12:51	0	0	0
194	10/25/2011 12:52	0	0	0
195	10/25/2011 12:53	0	0	0
196	10/25/2011 12:54	0	0	0
197	10/25/2011 12:55	0	0	0
198	10/25/2011 12:56	0	0	0
199	10/25/2011 12:57	0	0	0
200	10/25/2011 12:58	0	0	0
201	10/25/2011 12:59	0	0	0
202	10/25/2011 13:00	0	0	0
203	10/25/2011 13:01	0	0	0
204	10/25/2011 13:02	0.026	0	0.001
205	10/25/2011 13:03	0	0	0
206	10/25/2011 13:04	0	0	0
207	10/25/2011 13:05	0	0	0
208	10/25/2011 13:06	0	0	0
209	10/25/2011 13:07	0	0	0
210	10/25/2011 13:08	0	0	0
211	10/25/2011 13:09	0	0	0
212	10/25/2011 13:10	0	0	0
213	10/25/2011 13:11	0.242	0	0.074
214	10/25/2011 13:12	0.168	0	0.013
215	10/25/2011 13:13	0.135	0	0.022
216	10/25/2011 13:14	0.014	0	0
217	10/25/2011 13:15	0	0	0
218	10/25/2011 13:16	0	0	0
219	10/25/2011 13:17	0	0	0
220	10/25/2011 13:18	0	0	0
221	10/25/2011 13:19	0	0	0
222	10/25/2011 13:20	0	0	0
223	10/25/2011 13:21	0	0	0
224	10/25/2011 13:22	0	0	0
225	10/25/2011 13:23	0	0	0
226	10/25/2011 13:24	0	0	0
227	10/25/2011 13:25	0	0	0
228	10/25/2011 13:26	0	0	0
229	10/25/2011 13:27	0	0	0
230	10/25/2011 13:28	0	0	0
231	10/25/2011 13:29	0	0	0

232	10/25/2011 13:30	0	0	0
233	10/25/2011 13:31	0	0	0
234	10/25/2011 13:32	0	0	0
235	10/25/2011 13:33	0	0	0
236	10/25/2011 13:34	0	0	0
237	10/25/2011 13:35	0	0	0
238	10/25/2011 13:36	0	0	0
239	10/25/2011 13:37	0	0	0
240	10/25/2011 13:38	0	0	0
241	10/25/2011 13:39	0	0	0
242	10/25/2011 13:40	0	0	0
243	10/25/2011 13:41	0	0	0
244	10/25/2011 13:42	0	0	0
245	10/25/2011 13:43	0	0	0
246	10/25/2011 13:44	0	0	0
247	10/25/2011 13:45	0	0	0
248	10/25/2011 13:46	0	0	0
249	10/25/2011 13:47	0	0	0
250	10/25/2011 13:48	0	0	0
251	10/25/2011 13:49	0	0	0
252	10/25/2011 13:50	0	0	0
253	10/25/2011 13:51	0	0	0
254	10/25/2011 13:52	0	0	0
255	10/25/2011 13:53	0	0	0
256	10/25/2011 13:54	0	0	0
257	10/25/2011 13:55	0	0	0
258	10/25/2011 13:56	0	0	0
259	10/25/2011 13:57	0	0	0
260	10/25/2011 13:58	0	0	0
261	10/25/2011 13:59	0	0	0
262	10/25/2011 14:00	0	0	0
263	10/25/2011 14:01	0	0	0
264	10/25/2011 14:02	0	0	0
265	10/25/2011 14:03	0	0	0
266	10/25/2011 14:04	0	0	0
267	10/25/2011 14:05	0	0	0
268	10/25/2011 14:06	0	0	0
269	10/25/2011 14:07	0	0	0
270	10/25/2011 14:08	0	0	0
271	10/25/2011 14:09	0	0	0
272	10/25/2011 14:10	0	0	0
273	10/25/2011 14:11	0	0	0
274	10/25/2011 14:12	0	0	0
275	10/25/2011 14:13	0	0	0
276	10/25/2011 14:14	0	0	0
277	10/25/2011 14:15	0	0	0
278	10/25/2011 14:16	0	0	0
279	10/25/2011 14:17	0	0	0
280	10/25/2011 14:18	0	0	0
281	10/25/2011 14:19	0	0	0
282	10/25/2011 14:20	0	0	0
283	10/25/2011 14:21	0	0	0
284	10/25/2011 14:22	0	0	0
285	10/25/2011 14:23	0	0	0
286	10/25/2011 14:24	0	0	0
287	10/25/2011 14:25	0	0	0
288	10/25/2011 14:26	0	0	0
289	10/25/2011 14:27	0	0	0
290	10/25/2011 14:28	0	0	0
291	10/25/2011 14:29	0	0	0
292	10/25/2011 14:30	0	0	0
293	10/25/2011 14:31	0	0	0
294	10/25/2011 14:32	0	0	0
295	10/25/2011 14:33	0	0	0
296	10/25/2011 14:34	0	0	0
297	10/25/2011 14:35	0	0	0
298	10/25/2011 14:36	0	0	0
299	10/25/2011 14:37	0	0	0
300	10/25/2011 14:38	0	0	0
301	10/25/2011 14:39	0	0	0
302	10/25/2011 14:40	0	0	0
303	10/25/2011 14:41	0	0	0
304	10/25/2011 14:42	0	0	0
305	10/25/2011 14:43	0	0	0
306	10/25/2011 14:44	0	0	0
307	10/25/2011 14:45	0	0	0
308	10/25/2011 14:46	0	0	0
309	10/25/2011 14:47	0	0	0

==========Event #25 information (end)==========

==========Event #4 information (begin)==========

==========

[Event #4 name:]--[Event #4]2011-10-29 12:30<-->2011-10-29 17:27

[Event start time:]--2011-10-29 12:30:31[Event end time:]--2011-10-29 17:27:31

==========Event #4 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 297 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-29 08:04:002011-10-29 08:04:002011-10-29 08:04:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

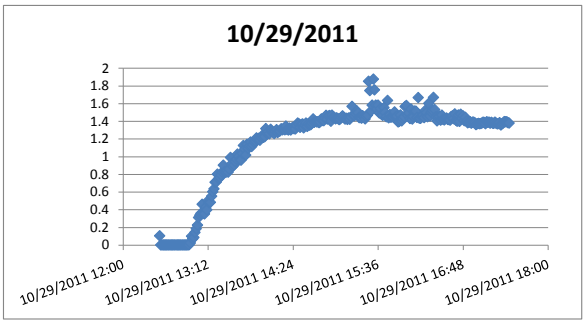
High Alarm Levels : 18.902 18.902 18.902

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #4 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/29/2011 12:31	0.105	0	0.01
2	10/29/2011 12:32	0	0	0
3	10/29/2011 12:33	0	0	0
4	10/29/2011 12:34	0	0	0
5	10/29/2011 12:35	0	0	0
6	10/29/2011 12:36	0	0	0
7	10/29/2011 12:37	0	0	0
8	10/29/2011 12:38	0	0	0
9	10/29/2011 12:39	0	0	0
10	10/29/2011 12:40	0	0	0
11	10/29/2011 12:41	0	0	0
12	10/29/2011 12:42	0	0	0
13	10/29/2011 12:43	0	0	0
14	10/29/2011 12:44	0	0	0
15	10/29/2011 12:45	0	0	0
16	10/29/2011 12:46	0	0	0
17	10/29/2011 12:47	0	0	0
18	10/29/2011 12:48	0	0	0
19	10/29/2011 12:49	0	0	0
20	10/29/2011 12:50	0	0	0
21	10/29/2011 12:51	0	0	0
22	10/29/2011 12:52	0	0	0
23	10/29/2011 12:53	0	0	0
24	10/29/2011 12:54	0	0	0
25	10/29/2011 12:55	0	0	0
26	10/29/2011 12:56	0.002	0	0
27	10/29/2011 12:57	0.023	0.001	0.01
28	10/29/2011 12:58	0.1	0.017	0.043
29	10/29/2011 12:59	0.07	0.045	0.056
30	10/29/2011 13:00	0.086	0.061	0.074
31	10/29/2011 13:01	0.143	0.083	0.12
32	10/29/2011 13:02	0.185	0.135	0.148
33	10/29/2011 13:03	0.226	0.169	0.199
34	10/29/2011 13:04	0.312	0.211	0.264
35	10/29/2011 13:05	0.337	0.265	0.293
36	10/29/2011 13:06	0.357	0.285	0.305
37	10/29/2011 13:07	0.461	0.272	0.309
38	10/29/2011 13:08	0.357	0.297	0.32
39	10/29/2011 13:09	0.352	0.312	0.325
40	10/29/2011 13:10	0.429	0.335	0.369
41	10/29/2011 13:11	0.398	0.368	0.381
42	10/29/2011 13:12	0.501	0.391	0.437
43	10/29/2011 13:13	0.48	0.436	0.455
44	10/29/2011 13:14	0.483	0.436	0.459
45	10/29/2011 13:15	0.553	0.48	0.514
46	10/29/2011 13:16	0.604	0.532	0.566
47	10/29/2011 13:17	0.636	0.583	0.608
48	10/29/2011 13:18	0.711	0.607	0.643
49	10/29/2011 13:19	0.713	0.649	0.68
50	10/29/2011 13:20	0.802	0.687	0.726
51	10/29/2011 13:21	0.751	0.71	0.727
52	10/29/2011 13:22	0.763	0.702	0.737
53	10/29/2011 13:23	0.794	0.745	0.767
54	10/29/2011 13:24	0.827	0.767	0.798
55	10/29/2011 13:25	0.904	0.775	0.802
56	10/29/2011 13:26	0.83	0.765	0.793
57	10/29/2011 13:27	0.823	0.776	0.795
58	10/29/2011 13:28	0.842	0.789	0.807
59	10/29/2011 13:29	0.825	0.796	0.813
60	10/29/2011 13:30	0.859	0.807	0.832
61	10/29/2011 13:31	0.99	0.81	0.862
62	10/29/2011 13:32	0.918	0.836	0.863

63	10/29/2011 13:33	0.889	0.841	0.86
64	10/29/2011 13:34	0.905	0.856	0.884
65	10/29/2011 13:35	0.946	0.873	0.899
66	10/29/2011 13:36	0.972	0.875	0.907
67	10/29/2011 13:37	1.029	0.898	0.946
68	10/29/2011 13:38	1.002	0.899	0.932
69	10/29/2011 13:39	0.964	0.897	0.924
70	10/29/2011 13:40	0.961	0.894	0.928
71	10/29/2011 13:41	1.037	0.91	0.954
72	10/29/2011 13:42	1.127	0.95	1.015
73	10/29/2011 13:43	1.083	0.944	0.986
74	10/29/2011 13:44	1.017	0.931	0.968
75	10/29/2011 13:45	1.139	0.965	1.012
76	10/29/2011 13:46	1.092	0.978	1.011
77	10/29/2011 13:47	1.118	1.012	1.056
78	10/29/2011 13:48	1.164	1.045	1.094
79	10/29/2011 13:49	1.114	1.052	1.076
80	10/29/2011 13:50	1.134	1.039	1.078
81	10/29/2011 13:51	1.164	1.091	1.113
82	10/29/2011 13:52	1.18	1.075	1.118
83	10/29/2011 13:53	1.212	1.079	1.144
84	10/29/2011 13:54	1.19	1.087	1.135
85	10/29/2011 13:55	1.207	1.107	1.154
86	10/29/2011 13:56	1.185	1.101	1.137
87	10/29/2011 13:57	1.213	1.11	1.151
88	10/29/2011 13:58	1.241	1.13	1.17
89	10/29/2011 13:59	1.217	1.12	1.169
90	10/29/2011 14:00	1.226	1.129	1.166
91	10/29/2011 14:01	1.317	1.14	1.197
92	10/29/2011 14:02	1.261	1.151	1.21
93	10/29/2011 14:03	1.282	1.158	1.218
94	10/29/2011 14:04	1.258	1.173	1.209
95	10/29/2011 14:05	1.309	1.187	1.227
96	10/29/2011 14:06	1.288	1.173	1.22
97	10/29/2011 14:07	1.277	1.188	1.225
98	10/29/2011 14:08	1.261	1.176	1.216
99	10/29/2011 14:09	1.284	1.178	1.232
100	10/29/2011 14:10	1.305	1.173	1.219
101	10/29/2011 14:11	1.272	1.182	1.224
102	10/29/2011 14:12	1.286	1.189	1.234
103	10/29/2011 14:13	1.291	1.205	1.244
104	10/29/2011 14:14	1.315	1.204	1.255
105	10/29/2011 14:15	1.303	1.211	1.244
106	10/29/2011 14:16	1.317	1.21	1.25
107	10/29/2011 14:17	1.303	1.216	1.257
108	10/29/2011 14:18	1.346	1.242	1.282
109	10/29/2011 14:19	1.306	1.215	1.257
110	10/29/2011 14:20	1.301	1.212	1.266
111	10/29/2011 14:21	1.323	1.218	1.26
112	10/29/2011 14:22	1.3	1.216	1.261
113	10/29/2011 14:23	1.323	1.234	1.278
114	10/29/2011 14:24	1.329	1.229	1.27
115	10/29/2011 14:25	1.315	1.247	1.276
116	10/29/2011 14:26	1.313	1.225	1.276
117	10/29/2011 14:27	1.353	1.261	1.302
118	10/29/2011 14:28	1.379	1.248	1.293
119	10/29/2011 14:29	1.37	1.26	1.299
120	10/29/2011 14:30	1.331	1.249	1.279
121	10/29/2011 14:31	1.363	1.268	1.305
122	10/29/2011 14:32	1.369	1.282	1.321
123	10/29/2011 14:33	1.325	1.258	1.292
124	10/29/2011 14:34	1.356	1.272	1.311
125	10/29/2011 14:35	1.379	1.252	1.302
126	10/29/2011 14:36	1.341	1.266	1.305
127	10/29/2011 14:37	1.372	1.291	1.327
128	10/29/2011 14:38	1.356	1.259	1.321
129	10/29/2011 14:39	1.362	1.299	1.336
130	10/29/2011 14:40	1.38	1.282	1.332
131	10/29/2011 14:41	1.426	1.306	1.356
132	10/29/2011 14:42	1.387	1.304	1.346
133	10/29/2011 14:43	1.398	1.311	1.35
134	10/29/2011 14:44	1.392	1.307	1.358
135	10/29/2011 14:45	1.394	1.313	1.346
136	10/29/2011 14:46	1.384	1.312	1.345
137	10/29/2011 14:47	1.394	1.315	1.35
138	10/29/2011 14:48	1.426	1.31	1.367
139	10/29/2011 14:49	1.408	1.326	1.354
140	10/29/2011 14:50	1.406	1.322	1.362
141	10/29/2011 14:51	1.437	1.34	1.387
142	10/29/2011 14:52	1.467	1.336	1.394
143	10/29/2011 14:53	1.425	1.332	1.374
144	10/29/2011 14:54	1.459	1.331	1.385
145	10/29/2011 14:55	1.464	1.342	1.393

146	10/29/2011 14:56	1.401	1.346	1.375
147	10/29/2011 14:57	1.47	1.318	1.381
148	10/29/2011 14:58	1.448	1.32	1.376
149	10/29/2011 14:59	1.443	1.358	1.399
150	10/29/2011 15:00	1.426	1.332	1.381
151	10/29/2011 15:01	1.438	1.355	1.392
152	10/29/2011 15:02	1.43	1.335	1.384
153	10/29/2011 15:03	1.419	1.348	1.384
154	10/29/2011 15:04	1.426	1.343	1.376
155	10/29/2011 15:05	1.443	1.33	1.38
156	10/29/2011 15:06	1.461	1.342	1.381
157	10/29/2011 15:07	1.442	1.351	1.401
158	10/29/2011 15:08	1.425	1.333	1.37
159	10/29/2011 15:09	1.434	1.324	1.377
160	10/29/2011 15:10	1.42	1.336	1.383
161	10/29/2011 15:11	1.437	1.355	1.39
162	10/29/2011 15:12	1.423	1.348	1.382
163	10/29/2011 15:13	1.449	1.35	1.396
164	10/29/2011 15:14	1.568	1.372	1.425
165	10/29/2011 15:15	1.471	1.343	1.398
166	10/29/2011 15:16	1.46	1.368	1.404
167	10/29/2011 15:17	1.487	1.346	1.381
168	10/29/2011 15:18	1.517	1.353	1.417
169	10/29/2011 15:19	1.498	1.357	1.4
170	10/29/2011 15:20	1.441	1.331	1.373
171	10/29/2011 15:21	1.443	1.367	1.399
172	10/29/2011 15:22	1.434	1.361	1.396
173	10/29/2011 15:23	1.462	1.335	1.387
174	10/29/2011 15:24	1.45	1.328	1.387
175	10/29/2011 15:25	1.427	1.343	1.384
176	10/29/2011 15:26	1.455	1.334	1.389
177	10/29/2011 15:27	1.47	1.349	1.41
178	10/29/2011 15:28	1.852	1.354	1.455
179	10/29/2011 15:29	1.747	1.366	1.456
180	10/29/2011 15:30	1.515	1.353	1.419
181	10/29/2011 15:31	1.583	1.345	1.423
182	10/29/2011 15:32	1.877	1.392	1.563
183	10/29/2011 15:33	1.754	1.371	1.481
184	10/29/2011 15:34	1.582	1.376	1.459
185	10/29/2011 15:35	1.538	1.376	1.427
186	10/29/2011 15:36	1.583	1.393	1.478
187	10/29/2011 15:37	1.494	1.366	1.409
188	10/29/2011 15:38	1.541	1.366	1.425
189	10/29/2011 15:39	1.478	1.351	1.397
190	10/29/2011 15:40	1.467	1.353	1.402
191	10/29/2011 15:41	1.555	1.36	1.426
192	10/29/2011 15:42	1.499	1.345	1.402
193	10/29/2011 15:43	1.451	1.346	1.397
194	10/29/2011 15:44	1.635	1.361	1.419
195	10/29/2011 15:45	1.438	1.373	1.406
196	10/29/2011 15:46	1.476	1.365	1.415
197	10/29/2011 15:47	1.444	1.365	1.401
198	10/29/2011 15:48	1.456	1.34	1.381
199	10/29/2011 15:49	1.445	1.355	1.391
200	10/29/2011 15:50	1.506	1.355	1.402
201	10/29/2011 15:51	1.446	1.327	1.397
202	10/29/2011 15:52	1.456	1.342	1.381
203	10/29/2011 15:53	1.391	1.318	1.354
204	10/29/2011 15:54	1.399	1.312	1.351
205	10/29/2011 15:55	1.471	1.344	1.39
206	10/29/2011 15:56	1.405	1.32	1.365
207	10/29/2011 15:57	1.43	1.313	1.375
208	10/29/2011 15:58	1.451	1.336	1.383
209	10/29/2011 15:59	1.567	1.357	1.415
210	10/29/2011 16:00	1.579	1.386	1.439
211	10/29/2011 16:01	1.47	1.375	1.413
212	10/29/2011 16:02	1.492	1.317	1.4
213	10/29/2011 16:03	1.43	1.341	1.385
214	10/29/2011 16:04	1.537	1.386	1.428
215	10/29/2011 16:05	1.425	1.337	1.378
216	10/29/2011 16:06	1.45	1.346	1.389
217	10/29/2011 16:07	1.515	1.363	1.399
218	10/29/2011 16:08	1.514	1.362	1.409
219	10/29/2011 16:09	1.443	1.343	1.394
220	10/29/2011 16:10	1.668	1.351	1.438
221	10/29/2011 16:11	1.434	1.352	1.39
222	10/29/2011 16:12	1.432	1.366	1.395
223	10/29/2011 16:13	1.45	1.335	1.392
224	10/29/2011 16:14	1.468	1.345	1.396
225	10/29/2011 16:15	1.44	1.341	1.389
226	10/29/2011 16:16	1.522	1.328	1.412
227	10/29/2011 16:17	1.497	1.338	1.39
228	10/29/2011 16:18	1.451	1.345	1.399

229	10/29/2011 16:19	1.602	1.336	1.436
230	10/29/2011 16:20	1.459	1.336	1.395
231	10/29/2011 16:21	1.504	1.333	1.397
232	10/29/2011 16:22	1.522	1.34	1.424
233	10/29/2011 16:23	1.67	1.357	1.426
234	10/29/2011 16:24	1.532	1.37	1.417
235	10/29/2011 16:25	1.451	1.328	1.397
236	10/29/2011 16:26	1.404	1.329	1.363
237	10/29/2011 16:27	1.445	1.346	1.382
238	10/29/2011 16:28	1.457	1.329	1.387
239	10/29/2011 16:29	1.412	1.332	1.365
240	10/29/2011 16:30	1.47	1.338	1.386
241	10/29/2011 16:31	1.423	1.335	1.373
242	10/29/2011 16:32	1.415	1.322	1.364
243	10/29/2011 16:33	1.429	1.321	1.371
244	10/29/2011 16:34	1.437	1.321	1.364
245	10/29/2011 16:35	1.421	1.342	1.38
246	10/29/2011 16:36	1.419	1.312	1.361
247	10/29/2011 16:37	1.413	1.329	1.372
248	10/29/2011 16:38	1.452	1.345	1.382
249	10/29/2011 16:39	1.46	1.326	1.374
250	10/29/2011 16:40	1.429	1.327	1.388
251	10/29/2011 16:41	1.483	1.311	1.38
252	10/29/2011 16:42	1.41	1.317	1.358
253	10/29/2011 16:43	1.401	1.301	1.354
254	10/29/2011 16:44	1.471	1.325	1.372
255	10/29/2011 16:45	1.399	1.294	1.354
256	10/29/2011 16:46	1.48	1.319	1.394
257	10/29/2011 16:47	1.435	1.301	1.354
258	10/29/2011 16:48	1.461	1.3	1.355
259	10/29/2011 16:49	1.407	1.308	1.36
260	10/29/2011 16:50	1.444	1.328	1.365
261	10/29/2011 16:51	1.401	1.293	1.345
262	10/29/2011 16:52	1.382	1.296	1.337
263	10/29/2011 16:53	1.387	1.306	1.335
264	10/29/2011 16:54	1.393	1.29	1.341
265	10/29/2011 16:55	1.377	1.31	1.334
266	10/29/2011 16:56	1.389	1.31	1.344
267	10/29/2011 16:57	1.39	1.287	1.34
268	10/29/2011 16:58	1.382	1.303	1.346
269	10/29/2011 16:59	1.362	1.291	1.328
270	10/29/2011 17:00	1.371	1.304	1.342
271	10/29/2011 17:01	1.375	1.298	1.336
272	10/29/2011 17:02	1.372	1.293	1.327
273	10/29/2011 17:03	1.374	1.296	1.328
274	10/29/2011 17:04	1.379	1.301	1.345
275	10/29/2011 17:05	1.39	1.315	1.351
276	10/29/2011 17:06	1.385	1.327	1.355
277	10/29/2011 17:07	1.372	1.314	1.347
278	10/29/2011 17:08	1.393	1.315	1.347
279	10/29/2011 17:09	1.388	1.281	1.34
280	10/29/2011 17:10	1.389	1.292	1.335
281	10/29/2011 17:11	1.377	1.308	1.344
282	10/29/2011 17:12	1.388	1.287	1.338
283	10/29/2011 17:13	1.377	1.283	1.325
284	10/29/2011 17:14	1.376	1.286	1.33
285	10/29/2011 17:15	1.39	1.283	1.347
286	10/29/2011 17:16	1.378	1.256	1.325
287	10/29/2011 17:17	1.37	1.281	1.332
288	10/29/2011 17:18	1.373	1.293	1.336
289	10/29/2011 17:19	1.383	1.32	1.352
290	10/29/2011 17:20	1.358	1.294	1.329
291	10/29/2011 17:21	1.372	1.272	1.332
292	10/29/2011 17:22	1.38	1.308	1.34
293	10/29/2011 17:23	1.396	1.296	1.344
294	10/29/2011 17:24	1.393	1.295	1.34
295	10/29/2011 17:25	1.393	1.314	1.348
296	10/29/2011 17:26	1.383	1.268	1.334
297	10/29/2011 17:27	1.38	1.301	1.336

==========Event #4 information (end)==========

=========Event #10 information (begin)=========

[Event #10 name:]--[Event #10]2011-10-30 08:05<-->2011-10-30 15:46

[Event start time:]--2011-10-30 08:05:10[Event end time:]--2011-10-30 15:46:10

==========Event #10 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-904624

Data Points: 461 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID-Min(ppm)PID-Avg(ppm)PID-Max(ppm)

Measurement Gas : Isobutene

Calibration Time : 2011-10-30 07:54:002011-10-30 07:54:002011-10-30 07:54:00

Drift Value : --- --- ---

Low Alarm Levels : 9.451 9.451 9.451

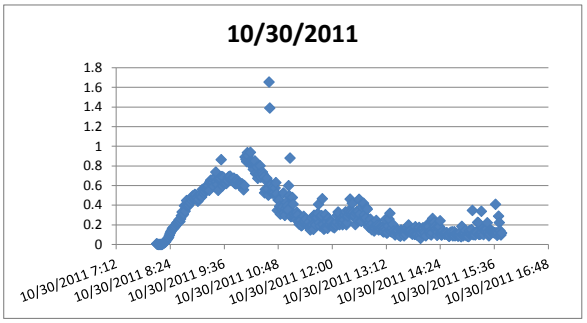
High Alarm Levels : 18.902 18.902 18.902

Span Value : 100.000 100.000 100.000

Correction Factor : 1.00 1.00 1.00

Over Alarm Levels : 15000.000 15000.000 15000.000

==========Event #10 data informations==========



LINE#	Date/Time	PID-Max(ppm)	PID-Min(ppm)	PID-Avg(ppm)
1	10/30/2011 8:06	0.007	0	0
2	10/30/2011 8:07	0.002	0	0
3	10/30/2011 8:08	0	0	0
4	10/30/2011 8:09	0	0	0
5	10/30/2011 8:10	0	0	0
6	10/30/2011 8:11	0	0	0
7	10/30/2011 8:12	0	0	0
8	10/30/2011 8:13	0	0	0
9	10/30/2011 8:14	0.003	0	0
10	10/30/2011 8:15	0.014	0	0.004
11	10/30/2011 8:16	0.015	0.005	0.009
12	10/30/2011 8:17	0.022	0.011	0.016
13	10/30/2011 8:18	0.027	0.016	0.02
14	10/30/2011 8:19	0.042	0.014	0.032
15	10/30/2011 8:20	0.049	0.035	0.041
16	10/30/2011 8:21	0.061	0.04	0.046
17	10/30/2011 8:22	0.072	0.054	0.065
18	10/30/2011 8:23	0.093	0.062	0.081
19	10/30/2011 8:24	0.112	0.09	0.098
20	10/30/2011 8:25	0.129	0.105	0.117
21	10/30/2011 8:26	0.143	0.125	0.133
22	10/30/2011 8:27	0.164	0.134	0.151
23	10/30/2011 8:28	0.161	0.14	0.147
24	10/30/2011 8:29	0.178	0.148	0.164
25	10/30/2011 8:30	0.174	0.144	0.158
26	10/30/2011 8:31	0.187	0.162	0.176
27	10/30/2011 8:32	0.208	0.184	0.197
28	10/30/2011 8:33	0.22	0.198	0.208
29	10/30/2011 8:34	0.224	0.199	0.211
30	10/30/2011 8:35	0.225	0.192	0.209
31	10/30/2011 8:36	0.251	0.211	0.226
32	10/30/2011 8:37	0.233	0.209	0.219
33	10/30/2011 8:38	0.261	0.214	0.237
34	10/30/2011 8:39	0.294	0.221	0.263
35	10/30/2011 8:40	0.331	0.214	0.247
36	10/30/2011 8:41	0.297	0.251	0.277
37	10/30/2011 8:42	0.311	0.256	0.289
38	10/30/2011 8:43	0.395	0.294	0.319
39	10/30/2011 8:44	0.34	0.305	0.317
40	10/30/2011 8:45	0.406	0.32	0.34
41	10/30/2011 8:46	0.448	0.306	0.348
42	10/30/2011 8:47	0.394	0.309	0.345
43	10/30/2011 8:48	0.393	0.355	0.375
44	10/30/2011 8:49	0.404	0.372	0.384
45	10/30/2011 8:50	0.428	0.375	0.4
46	10/30/2011 8:51	0.426	0.37	0.402
47	10/30/2011 8:52	0.465	0.378	0.405
48	10/30/2011 8:53	0.448	0.402	0.428
49	10/30/2011 8:54	0.494	0.386	0.421
50	10/30/2011 8:55	0.461	0.421	0.441
51	10/30/2011 8:56	0.473	0.393	0.425
52	10/30/2011 8:57	0.509	0.431	0.457
53	10/30/2011 8:58	0.506	0.438	0.472
54	10/30/2011 8:59	0.477	0.415	0.436
55	10/30/2011 9:00	0.474	0.412	0.435
56	10/30/2011 9:01	0.44	0.406	0.422
57	10/30/2011 9:02	0.46	0.404	0.426
58	10/30/2011 9:03	0.504	0.444	0.476
59	10/30/2011 9:04	0.507	0.465	0.479
60	10/30/2011 9:05	0.514	0.433	0.468
61	10/30/2011 9:06	0.484	0.439	0.458
62	10/30/2011 9:07	0.56	0.457	0.504

63	10/30/2011 9:08	0.555	0.424	0.455
64	10/30/2011 9:09	0.518	0.444	0.475
65	10/30/2011 9:10	0.542	0.459	0.493
66	10/30/2011 9:11	0.584	0.52	0.545
67	10/30/2011 9:12	0.56	0.519	0.537
68	10/30/2011 9:13	0.568	0.525	0.546
69	10/30/2011 9:14	0.59	0.543	0.566
70	10/30/2011 9:15	0.6	0.47	0.53
71	10/30/2011 9:16	0.552	0.494	0.526
72	10/30/2011 9:17	0.635	0.539	0.578
73	10/30/2011 9:18	0.654	0.521	0.589
74	10/30/2011 9:19	0.653	0.542	0.574
75	10/30/2011 9:20	0.647	0.545	0.587
76	10/30/2011 9:21	0.632	0.534	0.565
77	10/30/2011 9:22	0.592	0.502	0.548
78	10/30/2011 9:23	0.656	0.524	0.584
79	10/30/2011 9:24	0.682	0.606	0.634
80	10/30/2011 9:25	0.738	0.579	0.667
81	10/30/2011 9:26	0.642	0.531	0.573
82	10/30/2011 9:27	0.61	0.548	0.575
83	10/30/2011 9:28	0.552	0.505	0.526
84	10/30/2011 9:29	0.66	0.539	0.578
85	10/30/2011 9:30	0.665	0.577	0.603
86	10/30/2011 9:31	0.676	0.571	0.615
87	10/30/2011 9:32	0.864	0.553	0.633
88	10/30/2011 9:33	0.691	0.475	0.596
89	10/30/2011 9:34	0.596	0.449	0.528
90	10/30/2011 9:35	0.685	0.526	0.571
91	10/30/2011 9:36	0.618	0.508	0.546
92	10/30/2011 9:37	0.625	0.514	0.58
93	10/30/2011 9:38	0.636	0.513	0.556
94	10/30/2011 9:39	0.62	0.497	0.554
95	10/30/2011 9:40	0.645	0.539	0.587
96	10/30/2011 9:41	0.652	0.568	0.606
97	10/30/2011 9:42	0.689	0.583	0.631
98	10/30/2011 9:43	0.691	0.565	0.614
99	10/30/2011 9:44	0.695	0.57	0.613
100	10/30/2011 9:45	0.662	0.579	0.605
101	10/30/2011 9:46	0.661	0.588	0.617
102	10/30/2011 9:47	0.649	0.542	0.59
103	10/30/2011 9:48	0.652	0.549	0.596
104	10/30/2011 9:49	0.676	0.492	0.598
105	10/30/2011 9:50	0.625	0.537	0.576
106	10/30/2011 9:51	0.619	0.526	0.564
107	10/30/2011 9:52	0.617	0.528	0.567
108	10/30/2011 9:53	0.66	0.564	0.605
109	10/30/2011 9:54	0.642	0.548	0.59
110	10/30/2011 9:55	0.619	0.503	0.56
111	10/30/2011 9:56	0.622	0.529	0.564
112	10/30/2011 9:57	0.602	0.489	0.539
113	10/30/2011 9:58	0.613	0.487	0.534
114	10/30/2011 9:59	0.615	0.509	0.552
115	10/30/2011 10:00	0.617	0.501	0.546
116	10/30/2011 10:01	0.602	0.495	0.549
117	10/30/2011 10:02	0.556	0.483	0.515
118	10/30/2011 10:03	0.601	0.476	0.53
119	10/30/2011 10:04	0.89	0.59	0.723
120	10/30/2011 10:05	0.867	0.549	0.699
121	10/30/2011 10:06	0.843	0.553	0.701
122	10/30/2011 10:07	0.935	0.564	0.726
123	10/30/2011 10:08	0.904	0.618	0.807
124	10/30/2011 10:09	0.835	0.574	0.708
125	10/30/2011 10:10	0.836	0.51	0.686
126	10/30/2011 10:11	0.939	0.559	0.683
127	10/30/2011 10:12	0.824	0.517	0.689
128	10/30/2011 10:13	0.834	0.528	0.62
129	10/30/2011 10:14	0.827	0.532	0.684
130	10/30/2011 10:15	0.764	0.487	0.621
131	10/30/2011 10:16	0.836	0.465	0.569
132	10/30/2011 10:17	0.85	0.465	0.658
133	10/30/2011 10:18	0.723	0.453	0.593
134	10/30/2011 10:19	0.729	0.42	0.607
135	10/30/2011 10:20	0.787	0.443	0.656
136	10/30/2011 10:21	0.674	0.439	0.556
137	10/30/2011 10:22	0.72	0.491	0.571
138	10/30/2011 10:23	0.721	0.544	0.625
139	10/30/2011 10:24	0.801	0.472	0.651
140	10/30/2011 10:25	0.684	0.38	0.551
141	10/30/2011 10:26	0.73	0.43	0.583
142	10/30/2011 10:27	0.737	0.56	0.646
143	10/30/2011 10:28	0.715	0.424	0.581
144	10/30/2011 10:29	0.689	0.402	0.483
145	10/30/2011 10:30	0.526	0.421	0.457

146	10/30/2011 10:31	0.561	0.363	0.438
147	10/30/2011 10:32	0.651	0.347	0.505
148	10/30/2011 10:33	0.673	0.428	0.481
149	10/30/2011 10:34	0.566	0.41	0.461
150	10/30/2011 10:35	0.501	0.42	0.463
151	10/30/2011 10:36	1.654	0.431	0.625
152	10/30/2011 10:37	1.389	0.506	0.69
153	10/30/2011 10:38	0.615	0.469	0.56
154	10/30/2011 10:39	0.609	0.506	0.538
155	10/30/2011 10:40	0.522	0.42	0.482
156	10/30/2011 10:41	0.582	0.425	0.504
157	10/30/2011 10:42	0.522	0.341	0.425
158	10/30/2011 10:43	0.531	0.381	0.452
159	10/30/2011 10:44	0.575	0.328	0.426
160	10/30/2011 10:45	0.629	0.318	0.412
161	10/30/2011 10:46	0.516	0.298	0.372
162	10/30/2011 10:47	0.346	0.279	0.317
163	10/30/2011 10:48	0.455	0.257	0.32
164	10/30/2011 10:49	0.453	0.272	0.332
165	10/30/2011 10:50	0.389	0.292	0.328
166	10/30/2011 10:51	0.309	0.204	0.249
167	10/30/2011 10:52	0.37	0.248	0.289
168	10/30/2011 10:53	0.361	0.273	0.31
169	10/30/2011 10:54	0.383	0.288	0.328
170	10/30/2011 10:55	0.523	0.313	0.428
171	10/30/2011 10:56	0.321	0.252	0.286
172	10/30/2011 10:57	0.296	0.243	0.265
173	10/30/2011 10:58	0.365	0.263	0.295
174	10/30/2011 10:59	0.428	0.241	0.3
175	10/30/2011 11:00	0.392	0.254	0.318
176	10/30/2011 11:01	0.354	0.243	0.272
177	10/30/2011 11:02	0.598	0.246	0.331
178	10/30/2011 11:03	0.497	0.301	0.367
179	10/30/2011 11:04	0.88	0.261	0.396
180	10/30/2011 11:05	0.283	0.201	0.236
181	10/30/2011 11:06	0.286	0.211	0.248
182	10/30/2011 11:07	0.478	0.246	0.35
183	10/30/2011 11:08	0.411	0.232	0.305
184	10/30/2011 11:09	0.311	0.211	0.241
185	10/30/2011 11:10	0.279	0.195	0.235
186	10/30/2011 11:11	0.296	0.194	0.23
187	10/30/2011 11:12	0.255	0.167	0.201
188	10/30/2011 11:13	0.326	0.178	0.232
189	10/30/2011 11:14	0.299	0.165	0.21
190	10/30/2011 11:15	0.238	0.165	0.191
191	10/30/2011 11:16	0.206	0.153	0.177
192	10/30/2011 11:17	0.229	0.156	0.184
193	10/30/2011 11:18	0.246	0.182	0.217
194	10/30/2011 11:19	0.19	0.133	0.151
195	10/30/2011 11:20	0.197	0.127	0.151
196	10/30/2011 11:21	0.223	0.14	0.167
197	10/30/2011 11:22	0.286	0.142	0.218
198	10/30/2011 11:23	0.229	0.188	0.209
199	10/30/2011 11:24	0.233	0.138	0.169
200	10/30/2011 11:25	0.259	0.138	0.178
201	10/30/2011 11:26	0.199	0.121	0.158
202	10/30/2011 11:27	0.187	0.127	0.148
203	10/30/2011 11:28	0.2	0.115	0.14
204	10/30/2011 11:29	0.226	0.124	0.155
205	10/30/2011 11:30	0.176	0.113	0.134
206	10/30/2011 11:31	0.147	0.112	0.128
207	10/30/2011 11:32	0.192	0.1	0.131
208	10/30/2011 11:33	0.27	0.099	0.146
209	10/30/2011 11:34	0.198	0.112	0.161
210	10/30/2011 11:35	0.153	0.109	0.128
211	10/30/2011 11:36	0.298	0.114	0.167
212	10/30/2011 11:37	0.289	0.139	0.22
213	10/30/2011 11:38	0.201	0.132	0.169
214	10/30/2011 11:39	0.275	0.145	0.176
215	10/30/2011 11:40	0.272	0.154	0.208
216	10/30/2011 11:41	0.315	0.159	0.227
217	10/30/2011 11:42	0.409	0.165	0.258
218	10/30/2011 11:43	0.22	0.131	0.158
219	10/30/2011 11:44	0.188	0.138	0.162
220	10/30/2011 11:45	0.281	0.114	0.171
221	10/30/2011 11:46	0.294	0.153	0.212
222	10/30/2011 11:47	0.465	0.16	0.241
223	10/30/2011 11:48	0.202	0.135	0.165
224	10/30/2011 11:49	0.154	0.128	0.135
225	10/30/2011 11:50	0.165	0.139	0.149
226	10/30/2011 11:51	0.303	0.148	0.19
227	10/30/2011 11:52	0.174	0.113	0.144
228	10/30/2011 11:53	0.231	0.13	0.167

229	10/30/2011 11:54	0.164	0.141	0.151
230	10/30/2011 11:55	0.269	0.13	0.18
231	10/30/2011 11:56	0.205	0.119	0.148
232	10/30/2011 11:57	0.197	0.128	0.144
233	10/30/2011 11:58	0.241	0.138	0.177
234	10/30/2011 11:59	0.226	0.13	0.163
235	10/30/2011 12:00	0.189	0.128	0.153
236	10/30/2011 12:01	0.178	0.13	0.152
237	10/30/2011 12:02	0.195	0.127	0.158
238	10/30/2011 12:03	0.17	0.126	0.145
239	10/30/2011 12:04	0.192	0.133	0.164
240	10/30/2011 12:05	0.199	0.127	0.159
241	10/30/2011 12:06	0.228	0.149	0.18
242	10/30/2011 12:07	0.297	0.155	0.214
243	10/30/2011 12:08	0.331	0.173	0.225
244	10/30/2011 12:09	0.319	0.161	0.209
245	10/30/2011 12:10	0.201	0.147	0.168
246	10/30/2011 12:11	0.253	0.147	0.19
247	10/30/2011 12:12	0.234	0.165	0.195
248	10/30/2011 12:13	0.222	0.153	0.183
249	10/30/2011 12:14	0.201	0.14	0.173
250	10/30/2011 12:15	0.225	0.167	0.191
251	10/30/2011 12:16	0.252	0.17	0.196
252	10/30/2011 12:17	0.301	0.174	0.206
253	10/30/2011 12:18	0.332	0.162	0.224
254	10/30/2011 12:19	0.2	0.165	0.179
255	10/30/2011 12:20	0.222	0.149	0.177
256	10/30/2011 12:21	0.289	0.147	0.215
257	10/30/2011 12:22	0.341	0.171	0.238
258	10/30/2011 12:23	0.308	0.157	0.215
259	10/30/2011 12:24	0.462	0.181	0.297
260	10/30/2011 12:25	0.33	0.196	0.267
261	10/30/2011 12:26	0.3	0.172	0.217
262	10/30/2011 12:27	0.42	0.177	0.226
263	10/30/2011 12:28	0.328	0.181	0.238
264	10/30/2011 12:29	0.297	0.175	0.221
265	10/30/2011 12:30	0.291	0.146	0.194
266	10/30/2011 12:31	0.202	0.14	0.16
267	10/30/2011 12:32	0.318	0.169	0.234
268	10/30/2011 12:33	0.337	0.234	0.294
269	10/30/2011 12:34	0.245	0.167	0.199
270	10/30/2011 12:35	0.34	0.209	0.257
271	10/30/2011 12:36	0.459	0.196	0.303
272	10/30/2011 12:37	0.309	0.22	0.258
273	10/30/2011 12:38	0.243	0.145	0.177
274	10/30/2011 12:39	0.235	0.161	0.194
275	10/30/2011 12:40	0.379	0.215	0.3
276	10/30/2011 12:41	0.416	0.238	0.301
277	10/30/2011 12:42	0.42	0.193	0.26
278	10/30/2011 12:43	0.301	0.156	0.201
279	10/30/2011 12:44	0.257	0.171	0.205
280	10/30/2011 12:45	0.27	0.149	0.178
281	10/30/2011 12:46	0.371	0.169	0.229
282	10/30/2011 12:47	0.36	0.16	0.211
283	10/30/2011 12:48	0.195	0.149	0.173
284	10/30/2011 12:49	0.177	0.143	0.158
285	10/30/2011 12:50	0.22	0.127	0.185
286	10/30/2011 12:51	0.258	0.114	0.156
287	10/30/2011 12:52	0.198	0.109	0.149
288	10/30/2011 12:53	0.15	0.1	0.119
289	10/30/2011 12:54	0.213	0.116	0.148
290	10/30/2011 12:55	0.171	0.126	0.143
291	10/30/2011 12:56	0.136	0.112	0.126
292	10/30/2011 12:57	0.171	0.102	0.126
293	10/30/2011 12:58	0.161	0.106	0.126
294	10/30/2011 12:59	0.245	0.134	0.187
295	10/30/2011 13:00	0.196	0.109	0.133
296	10/30/2011 13:01	0.167	0.113	0.126
297	10/30/2011 13:02	0.148	0.113	0.121
298	10/30/2011 13:03	0.191	0.104	0.133
299	10/30/2011 13:04	0.162	0.103	0.118
300	10/30/2011 13:05	0.157	0.106	0.123
301	10/30/2011 13:06	0.177	0.098	0.119
302	10/30/2011 13:07	0.174	0.092	0.111
303	10/30/2011 13:08	0.13	0.092	0.11
304	10/30/2011 13:09	0.128	0.083	0.096
305	10/30/2011 13:10	0.167	0.086	0.117
306	10/30/2011 13:11	0.253	0.1	0.161
307	10/30/2011 13:12	0.15	0.092	0.119
308	10/30/2011 13:13	0.115	0.067	0.088
309	10/30/2011 13:14	0.124	0.068	0.089
310	10/30/2011 13:15	0.188	0.067	0.09
311	10/30/2011 13:16	0.258	0.077	0.121

312	10/30/2011 13:17	0.317	0.093	0.148
313	10/30/2011 13:18	0.134	0.08	0.101
314	10/30/2011 13:19	0.128	0.08	0.096
315	10/30/2011 13:20	0.168	0.089	0.107
316	10/30/2011 13:21	0.205	0.095	0.135
317	10/30/2011 13:22	0.139	0.068	0.095
318	10/30/2011 13:23	0.11	0.066	0.082
319	10/30/2011 13:24	0.097	0.064	0.08
320	10/30/2011 13:25	0.127	0.073	0.087
321	10/30/2011 13:26	0.125	0.074	0.086
322	10/30/2011 13:27	0.141	0.072	0.089
323	10/30/2011 13:28	0.14	0.066	0.088
324	10/30/2011 13:29	0.095	0.059	0.073
325	10/30/2011 13:30	0.101	0.069	0.086
326	10/30/2011 13:31	0.083	0.058	0.072
327	10/30/2011 13:32	0.147	0.063	0.085
328	10/30/2011 13:33	0.132	0.058	0.096
329	10/30/2011 13:34	0.136	0.084	0.1
330	10/30/2011 13:35	0.129	0.069	0.09
331	10/30/2011 13:36	0.087	0.058	0.071
332	10/30/2011 13:37	0.126	0.061	0.085
333	10/30/2011 13:38	0.104	0.06	0.078
334	10/30/2011 13:39	0.145	0.076	0.095
335	10/30/2011 13:40	0.167	0.094	0.133
336	10/30/2011 13:41	0.136	0.078	0.095
337	10/30/2011 13:42	0.199	0.093	0.138
338	10/30/2011 13:43	0.133	0.071	0.094
339	10/30/2011 13:44	0.125	0.073	0.093
340	10/30/2011 13:45	0.144	0.072	0.091
341	10/30/2011 13:46	0.114	0.065	0.081
342	10/30/2011 13:47	0.103	0.059	0.075
343	10/30/2011 13:48	0.123	0.058	0.087
344	10/30/2011 13:49	0.117	0.055	0.077
345	10/30/2011 13:50	0.102	0.051	0.064
346	10/30/2011 13:51	0.18	0.062	0.101
347	10/30/2011 13:52	0.104	0.057	0.074
348	10/30/2011 13:53	0.097	0.056	0.071
349	10/30/2011 13:54	0.103	0.057	0.079
350	10/30/2011 13:55	0.156	0.056	0.077
351	10/30/2011 13:56	0.173	0.05	0.079
352	10/30/2011 13:57	0.094	0.05	0.066
353	10/30/2011 13:58	0.061	0.042	0.052
354	10/30/2011 13:59	0.119	0.053	0.072
355	10/30/2011 14:00	0.155	0.057	0.091
356	10/30/2011 14:01	0.169	0.068	0.109
357	10/30/2011 14:02	0.163	0.059	0.093
358	10/30/2011 14:03	0.131	0.052	0.079
359	10/30/2011 14:04	0.116	0.057	0.083
360	10/30/2011 14:05	0.087	0.059	0.071
361	10/30/2011 14:06	0.176	0.056	0.088
362	10/30/2011 14:07	0.202	0.08	0.147
363	10/30/2011 14:08	0.192	0.056	0.104
364	10/30/2011 14:09	0.183	0.058	0.092
365	10/30/2011 14:10	0.127	0.065	0.087
366	10/30/2011 14:11	0.106	0.05	0.066
367	10/30/2011 14:12	0.097	0.046	0.067
368	10/30/2011 14:13	0.12	0.059	0.085
369	10/30/2011 14:14	0.265	0.072	0.14
370	10/30/2011 14:15	0.207	0.088	0.146
371	10/30/2011 14:16	0.224	0.065	0.153
372	10/30/2011 14:17	0.183	0.055	0.105
373	10/30/2011 14:18	0.146	0.053	0.088
374	10/30/2011 14:19	0.163	0.063	0.096
375	10/30/2011 14:20	0.092	0.046	0.06
376	10/30/2011 14:21	0.129	0.044	0.067
377	10/30/2011 14:22	0.169	0.059	0.096
378	10/30/2011 14:23	0.182	0.056	0.094
379	10/30/2011 14:24	0.24	0.074	0.136
380	10/30/2011 14:25	0.117	0.056	0.085
381	10/30/2011 14:26	0.095	0.05	0.066
382	10/30/2011 14:27	0.112	0.065	0.087
383	10/30/2011 14:28	0.136	0.055	0.087
384	10/30/2011 14:29	0.112	0.058	0.077
385	10/30/2011 14:30	0.104	0.056	0.078
386	10/30/2011 14:31	0.113	0.061	0.08
387	10/30/2011 14:32	0.104	0.056	0.077
388	10/30/2011 14:33	0.12	0.06	0.082
389	10/30/2011 14:34	0.099	0.051	0.072
390	10/30/2011 14:35	0.095	0.044	0.06
391	10/30/2011 14:36	0.082	0.048	0.061
392	10/30/2011 14:37	0.093	0.043	0.064
393	10/30/2011 14:38	0.124	0.054	0.081
394	10/30/2011 14:39	0.103	0.049	0.066

395	10/30/2011 14:40	0.13	0.056	0.083
396	10/30/2011 14:41	0.087	0.046	0.061
397	10/30/2011 14:42	0.094	0.046	0.055
398	10/30/2011 14:43	0.13	0.067	0.098
399	10/30/2011 14:44	0.087	0.053	0.071
400	10/30/2011 14:45	0.108	0.048	0.068
401	10/30/2011 14:46	0.11	0.058	0.077
402	10/30/2011 14:47	0.092	0.046	0.068
403	10/30/2011 14:48	0.083	0.048	0.061
404	10/30/2011 14:49	0.091	0.05	0.066
405	10/30/2011 14:50	0.092	0.049	0.063
406	10/30/2011 14:51	0.126	0.061	0.089
407	10/30/2011 14:52	0.078	0.046	0.058
408	10/30/2011 14:53	0.184	0.044	0.079
409	10/30/2011 14:54	0.102	0.046	0.063
410	10/30/2011 14:55	0.087	0.044	0.064
411	10/30/2011 14:56	0.101	0.052	0.071
412	10/30/2011 14:57	0.11	0.048	0.073
413	10/30/2011 14:58	0.142	0.054	0.091
414	10/30/2011 14:59	0.089	0.05	0.068
415	10/30/2011 15:00	0.092	0.044	0.064
416	10/30/2011 15:01	0.081	0.041	0.052
417	10/30/2011 15:02	0.08	0.047	0.056
418	10/30/2011 15:03	0.141	0.045	0.075
419	10/30/2011 15:04	0.106	0.07	0.081
420	10/30/2011 15:05	0.103	0.053	0.063
421	10/30/2011 15:06	0.152	0.052	0.081
422	10/30/2011 15:07	0.346	0.056	0.18
423	10/30/2011 15:08	0.101	0.057	0.072
424	10/30/2011 15:09	0.101	0.057	0.076
425	10/30/2011 15:10	0.119	0.059	0.082
426	10/30/2011 15:11	0.096	0.061	0.077
427	10/30/2011 15:12	0.126	0.054	0.072
428	10/30/2011 15:13	0.12	0.056	0.079
429	10/30/2011 15:14	0.225	0.051	0.121
430	10/30/2011 15:15	0.22	0.058	0.107
431	10/30/2011 15:16	0.102	0.057	0.07
432	10/30/2011 15:17	0.107	0.065	0.079
433	10/30/2011 15:18	0.106	0.059	0.086
434	10/30/2011 15:19	0.338	0.058	0.108
435	10/30/2011 15:20	0.123	0.059	0.082
436	10/30/2011 15:21	0.161	0.057	0.086
437	10/30/2011 15:22	0.101	0.055	0.074
438	10/30/2011 15:23	0.147	0.065	0.092
439	10/30/2011 15:24	0.141	0.067	0.091
440	10/30/2011 15:25	0.129	0.06	0.082
441	10/30/2011 15:26	0.158	0.068	0.101
442	10/30/2011 15:27	0.221	0.072	0.134
443	10/30/2011 15:28	0.125	0.071	0.092
444	10/30/2011 15:29	0.088	0.059	0.07
445	10/30/2011 15:30	0.107	0.066	0.079
446	10/30/2011 15:31	0.149	0.064	0.082
447	10/30/2011 15:32	0.133	0.057	0.089
448	10/30/2011 15:33	0.138	0.067	0.089
449	10/30/2011 15:34	0.125	0.074	0.096
450	10/30/2011 15:35	0.123	0.064	0.081
451	10/30/2011 15:36	0.118	0.062	0.082
452	10/30/2011 15:37	0.12	0.063	0.087
453	10/30/2011 15:38	0.409	0.068	0.15
454	10/30/2011 15:39	0.119	0.071	0.089
455	10/30/2011 15:40	0.092	0.066	0.076
456	10/30/2011 15:41	0.114	0.073	0.083
457	10/30/2011 15:42	0.288	0.091	0.172
458	10/30/2011 15:43	0.222	0.098	0.151
459	10/30/2011 15:44	0.14	0.08	0.105
460	10/30/2011 15:45	0.097	0.07	0.083
461	10/30/2011 15:46	0.116	0.077	0.093

==========Event #10 information (end)==========

==========Event #6 information (begin)==========

[Event #6 name:]--[Event #6]2011-09-19 14:44<-->2011-09-19 17:13

[Event start time:]--2011-09-19 14:44:21[Event end time:]--2011-09-19 17:13:21

==========Event #6 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 149 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-19 11:23:00

Drift Value : ---

Low Alarm Levels : 25847

High Alarm Levels : 51694

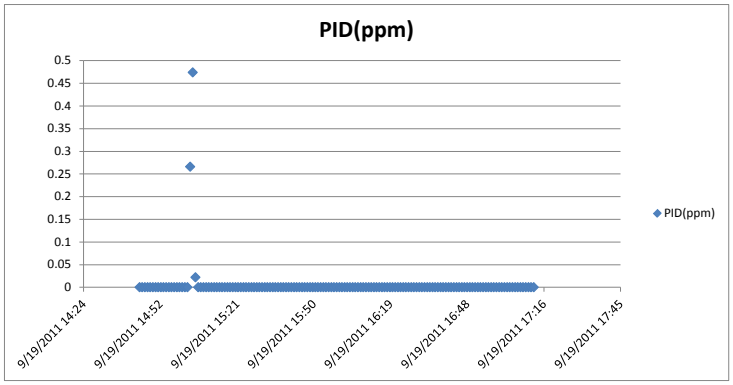
Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #6 data informations==========

LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/19/2011 14:45	0	0
2	9/19/2011 14:46	0	0
3	9/19/2011 14:47	0	0
4	9/19/2011 14:48	0	0
5	9/19/2011 14:49	0	0
6	9/19/2011 14:50	0	0
7	9/19/2011 14:51	0	0
8	9/19/2011 14:52	0	0
9	9/19/2011 14:53	0	0
10	9/19/2011 14:54	0	0
11	9/19/2011 14:55	0	0
12	9/19/2011 14:56	0	0
13	9/19/2011 14:57	0	0
14	9/19/2011 14:58	0	0
15	9/19/2011 14:59	0	0
16	9/19/2011 15:00	0	0
17	9/19/2011 15:01	0	0
18	9/19/2011 15:02	0	0
19	9/19/2011 15:03	0	0
20	9/19/2011 15:04	0.266	266
21	9/19/2011 15:05	0.474	474
22	9/19/2011 15:06	0.022	22
23	9/19/2011 15:07	0	0
24	9/19/2011 15:08	0	0
25	9/19/2011 15:09	0	0
26	9/19/2011 15:10	0	0
27	9/19/2011 15:11	0	0
28	9/19/2011 15:12	0	0
29	9/19/2011 15:13	0	0
30	9/19/2011 15:14	0	0
31	9/19/2011 15:15	0	0
32	9/19/2011 15:16	0	0
33	9/19/2011 15:17	0	0
34	9/19/2011 15:18	0	0
35	9/19/2011 15:19	0	0
36	9/19/2011 15:20	0	0
37	9/19/2011 15:21	0	0
38	9/19/2011 15:22	0	0
39	9/19/2011 15:23	0	0
40	9/19/2011 15:24	0	0
41	9/19/2011 15:25	0	0
42	9/19/2011 15:26	0	0
43	9/19/2011 15:27	0	0
44	9/19/2011 15:28	0	0
45	9/19/2011 15:29	0	0
46	9/19/2011 15:30	0	0
47	9/19/2011 15:31	0	0
48	9/19/2011 15:32	0	0
49	9/19/2011 15:33	0	0
50	9/19/2011 15:34	0	0
51	9/19/2011 15:35	0	0
52	9/19/2011 15:36	0	0
53	9/19/2011 15:37	0	0
54	9/19/2011 15:38	0	0
55	9/19/2011 15:39	0	0
56	9/19/2011 15:40	0	0
57	9/19/2011 15:41	0	0
58	9/19/2011 15:42	0	0
59	9/19/2011 15:43	0	0
60	9/19/2011 15:44	0	0
61	9/19/2011 15:45	0	0
62	9/19/2011 15:46	0	0
63	9/19/2011 15:47	0	0
64	9/19/2011 15:48	0	0
65	9/19/2011 15:49	0	0
66	9/19/2011 15:50	0	0
67	9/19/2011 15:51	0	0
68	9/19/2011 15:52	0	0
69	9/19/2011 15:53	0	0
70	9/19/2011 15:54	0	0
71	9/19/2011 15:55	0	0
72	9/19/2011 15:56	0	0



73	9/19/2011 15:57	0	0
74	9/19/2011 15:58	0	0
75	9/19/2011 15:59	0	0
76	9/19/2011 16:00	0	0
77	9/19/2011 16:01	0	0
78	9/19/2011 16:02	0	0
79	9/19/2011 16:03	0	0
80	9/19/2011 16:04	0	0
81	9/19/2011 16:05	0	0
82	9/19/2011 16:06	0	0
83	9/19/2011 16:07	0	0
84	9/19/2011 16:08	0	0
85	9/19/2011 16:09	0	0
86	9/19/2011 16:10	0	0
87	9/19/2011 16:11	0	0
88	9/19/2011 16:12	0	0
89	9/19/2011 16:13	0	0
90	9/19/2011 16:14	0	0
91	9/19/2011 16:15	0	0
92	9/19/2011 16:16	0	0
93	9/19/2011 16:17	0	0
94	9/19/2011 16:18	0	0
95	9/19/2011 16:19	0	0
96	9/19/2011 16:20	0	0
97	9/19/2011 16:21	0	0
98	9/19/2011 16:22	0	0
99	9/19/2011 16:23	0	0
100	9/19/2011 16:24	0	0
101	9/19/2011 16:25	0	0
102	9/19/2011 16:26	0	0
103	9/19/2011 16:27	0	0
104	9/19/2011 16:28	0	0
105	9/19/2011 16:29	0	0
106	9/19/2011 16:30	0	0
107	9/19/2011 16:31	0	0
108	9/19/2011 16:32	0	0
109	9/19/2011 16:33	0	0
110	9/19/2011 16:34	0	0
111	9/19/2011 16:35	0	0
112	9/19/2011 16:36	0	0
113	9/19/2011 16:37	0	0
114	9/19/2011 16:38	0	0
115	9/19/2011 16:39	0	0
116	9/19/2011 16:40	0	0
117	9/19/2011 16:41	0	0
118	9/19/2011 16:42	0	0
119	9/19/2011 16:43	0	0
120	9/19/2011 16:44	0	0
121	9/19/2011 16:45	0	0
122	9/19/2011 16:46	0	0
123	9/19/2011 16:47	0	0
124	9/19/2011 16:48	0	0
125	9/19/2011 16:49	0	0
126	9/19/2011 16:50	0	0
127	9/19/2011 16:51	0	0
128	9/19/2011 16:52	0	0
129	9/19/2011 16:53	0	0
130	9/19/2011 16:54	0	0
131	9/19/2011 16:55	0	0
132	9/19/2011 16:56	0	0
133	9/19/2011 16:57	0	0
134	9/19/2011 16:58	0	0
135	9/19/2011 16:59	0	0
136	9/19/2011 17:00	0	0
137	9/19/2011 17:01	0	0
138	9/19/2011 17:02	0	0
139	9/19/2011 17:03	0	0
140	9/19/2011 17:04	0	0
141	9/19/2011 17:05	0	0
142	9/19/2011 17:06	0	0
143	9/19/2011 17:07	0	0
144	9/19/2011 17:08	0	0
145	9/19/2011 17:09	0	0
146	9/19/2011 17:10	0	0
147	9/19/2011 17:11	0	0
148	9/19/2011 17:12	0	0
149	9/19/2011 17:13	0	0

==========Event #6 information (end)==========

=========Event #12 information (begin)=========

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[Event #12 name:]--[Event #12]2011-09-20 07:34<-->2011-09-20 15:05

[Event start time:]--2011-09-20 07:34:09[Event end time:]--2011-09-20 15:05:09

==========Event #12 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 451 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-20 07:33:00

Drift Value : ---

Low Alarm Levels : 25847

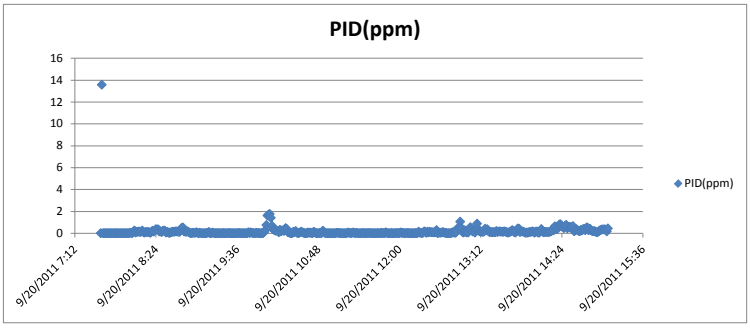
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #12 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/20/2011 7:35	0.002	2
2	9/20/2011 7:36	13.578	13578
3	9/20/2011 7:37	0	0
4	9/20/2011 7:38	0	0
5	9/20/2011 7:39	0	0
6	9/20/2011 7:40	0	0
7	9/20/2011 7:41	0	0
8	9/20/2011 7:42	0	0
9	9/20/2011 7:43	0	0
10	9/20/2011 7:44	0	0
11	9/20/2011 7:45	0	0
12	9/20/2011 7:46	0	0
13	9/20/2011 7:47	0	0
14	9/20/2011 7:48	0	0
15	9/20/2011 7:49	0	0
16	9/20/2011 7:50	0	0
17	9/20/2011 7:51	0	0
18	9/20/2011 7:52	0	0
19	9/20/2011 7:53	0	0
20	9/20/2011 7:54	0	0
21	9/20/2011 7:55	0	0
22	9/20/2011 7:56	0	0
23	9/20/2011 7:57	0	0
24	9/20/2011 7:58	0	0
25	9/20/2011 7:59	0	0
26	9/20/2011 8:00	0.005	5
27	9/20/2011 8:01	0.038	38
28	9/20/2011 8:02	0.036	36
29	9/20/2011 8:03	0.005	5
30	9/20/2011 8:04	0.155	155
31	9/20/2011 8:05	0.247	247
32	9/20/2011 8:06	0.064	64
33	9/20/2011 8:07	0.132	132
34	9/20/2011 8:08	0.136	136
35	9/20/2011 8:09	0.158	158
36	9/20/2011 8:10	0.1	100
37	9/20/2011 8:11	0.178	178
38	9/20/2011 8:12	0.242	242
39	9/20/2011 8:13	0.073	73
40	9/20/2011 8:14	0.067	67
41	9/20/2011 8:15	0.12	120
42	9/20/2011 8:16	0.098	98
43	9/20/2011 8:17	0.11	110
44	9/20/2011 8:18	0.083	83
45	9/20/2011 8:19	0.038	38
46	9/20/2011 8:20	0.129	129
47	9/20/2011 8:21	0.226	226
48	9/20/2011 8:22	0.15	150
49	9/20/2011 8:23	0.247	247
50	9/20/2011 8:24	0.366	366
51	9/20/2011 8:25	0.343	343
52	9/20/2011 8:26	0.358	358
53	9/20/2011 8:27	0.166	166
54	9/20/2011 8:28	0.168	168
55	9/20/2011 8:29	0.102	102
56	9/20/2011 8:30	0.201	201
57	9/20/2011 8:31	0.245	245
58	9/20/2011 8:32	0.211	211
59	9/20/2011 8:33	0.064	64
60	9/20/2011 8:34	0.117	117
61	9/20/2011 8:35	0.068	68
62	9/20/2011 8:36	0.013	13
63	9/20/2011 8:37	0.07	70
64	9/20/2011 8:38	0.106	106
65	9/20/2011 8:39	0.146	146
66	9/20/2011 8:40	0.137	137
67	9/20/2011 8:41	0.153	153
68	9/20/2011 8:42	0.179	179
69	9/20/2011 8:43	0.142	142
70	9/20/2011 8:44	0.158	158
71	9/20/2011 8:45	0.121	121
72	9/20/2011 8:46	0.282	282
73	9/20/2011 8:47	0.5	500
74	9/20/2011 8:48	0.526	526
75	9/20/2011 8:49	0.159	159
76	9/20/2011 8:50	0.142	142
77	9/20/2011 8:51	0.124	124

78	9/20/2011 8:52	0.173	173
79	9/20/2011 8:53	0.1	100
80	9/20/2011 8:54	0.047	47
81	9/20/2011 8:55	0	0
82	9/20/2011 8:56	0.012	12
83	9/20/2011 8:57	0.05	50
84	9/20/2011 8:58	0.038	38
85	9/20/2011 8:59	0.044	44
86	9/20/2011 9:00	0.095	95
87	9/20/2011 9:01	0.013	13
88	9/20/2011 9:02	0.004	4
89	9/20/2011 9:03	0.049	49
90	9/20/2011 9:04	0.005	5
91	9/20/2011 9:05	0.001	1
92	9/20/2011 9:06	0	0
93	9/20/2011 9:07	0	0
94	9/20/2011 9:08	0	0
95	9/20/2011 9:09	0.012	12
96	9/20/2011 9:10	0.047	47
97	9/20/2011 9:11	0.121	121
98	9/20/2011 9:12	0.002	2
99	9/20/2011 9:13	0.005	5
100	9/20/2011 9:14	0.064	64
101	9/20/2011 9:15	0.032	32
102	9/20/2011 9:16	0	0
103	9/20/2011 9:17	0	0
104	9/20/2011 9:18	0	0
105	9/20/2011 9:19	0.019	19
106	9/20/2011 9:20	0.004	4
107	9/20/2011 9:21	0.003	3
108	9/20/2011 9:22	0	0
109	9/20/2011 9:23	0.002	2
110	9/20/2011 9:24	0.018	18
111	9/20/2011 9:25	0	0
112	9/20/2011 9:26	0	0
113	9/20/2011 9:27	0	0
114	9/20/2011 9:28	0.003	3
115	9/20/2011 9:29	0.028	28
116	9/20/2011 9:30	0	0
117	9/20/2011 9:31	0	0
118	9/20/2011 9:32	0	0
119	9/20/2011 9:33	0	0
120	9/20/2011 9:34	0.006	6
121	9/20/2011 9:35	0.002	2
122	9/20/2011 9:36	0	0
123	9/20/2011 9:37	0.015	15
124	9/20/2011 9:38	0.013	13
125	9/20/2011 9:39	0	0
126	9/20/2011 9:40	0	0
127	9/20/2011 9:41	0	0
128	9/20/2011 9:42	0.002	2
129	9/20/2011 9:43	0.002	2
130	9/20/2011 9:44	0	0
131	9/20/2011 9:45	0.01	10
132	9/20/2011 9:46	0.084	84
133	9/20/2011 9:47	0.019	19
134	9/20/2011 9:48	0.072	72
135	9/20/2011 9:49	0.047	47
136	9/20/2011 9:50	0.021	21
137	9/20/2011 9:51	0	0
138	9/20/2011 9:52	0	0
139	9/20/2011 9:53	0.036	36
140	9/20/2011 9:54	0.014	14
141	9/20/2011 9:55	0.017	17
142	9/20/2011 9:56	0.004	4
143	9/20/2011 9:57	0.003	3
144	9/20/2011 9:58	0.001	1
145	9/20/2011 9:59	0.004	4
146	9/20/2011 10:00	0.109	109
147	9/20/2011 10:01	0.265	265
148	9/20/2011 10:02	0.75	750
149	9/20/2011 10:03	1.613	1613
150	9/20/2011 10:04	1.7	1700
151	9/20/2011 10:05	1.76	1760
152	9/20/2011 10:06	1.411	1411
153	9/20/2011 10:07	0.676	676
154	9/20/2011 10:08	0.357	357
155	9/20/2011 10:09	0.283	283
156	9/20/2011 10:10	0.223	223
157	9/20/2011 10:11	0.243	243
158	9/20/2011 10:12	0.208	208
159	9/20/2011 10:13	0.092	92
160	9/20/2011 10:14	0.315	315
161	9/20/2011 10:15	0.18	180
162	9/20/2011 10:16	0.262	262
163	9/20/2011 10:17	0.231	231
164	9/20/2011 10:18	0.231	231
165	9/20/2011 10:19	0.464	464
166	9/20/2011 10:20	0.393	393
167	9/20/2011 10:21	0.107	107
168	9/20/2011 10:22	0.078	78
169	9/20/2011 10:23	0.014	14
170	9/20/2011 10:24	0.005	5
171	9/20/2011 10:25	0.022	22
172	9/20/2011 10:26	0.143	143
173	9/20/2011 10:27	0.088	88
174	9/20/2011 10:28	0.198	198
175	9/20/2011 10:29	0.067	67

176	9/20/2011 10:30	0	0
177	9/20/2011 10:31	0.03	30
178	9/20/2011 10:32	0.092	92
179	9/20/2011 10:33	0.147	147
180	9/20/2011 10:34	0.076	76
181	9/20/2011 10:35	0.041	41
182	9/20/2011 10:36	0.01	10
183	9/20/2011 10:37	0	0
184	9/20/2011 10:38	0.004	4
185	9/20/2011 10:39	0.076	76
186	9/20/2011 10:40	0.029	29
187	9/20/2011 10:41	0.067	67
188	9/20/2011 10:42	0.017	17
189	9/20/2011 10:43	0.009	9
190	9/20/2011 10:44	0.135	135
191	9/20/2011 10:45	0.09	90
192	9/20/2011 10:46	0.001	1
193	9/20/2011 10:47	0	0
194	9/20/2011 10:48	0.002	2
195	9/20/2011 10:49	0.014	14
196	9/20/2011 10:50	0.032	32
197	9/20/2011 10:51	0.004	4
198	9/20/2011 10:52	0.235	235
199	9/20/2011 10:53	0.15	150
200	9/20/2011 10:54	0.019	19
201	9/20/2011 10:55	0.008	8
202	9/20/2011 10:56	0.002	2
203	9/20/2011 10:57	0	0
204	9/20/2011 10:58	0.004	4
205	9/20/2011 10:59	0	0
206	9/20/2011 11:00	0	0
207	9/20/2011 11:01	0	0
208	9/20/2011 11:02	0	0
209	9/20/2011 11:03	0.009	9
210	9/20/2011 11:04	0.03	30
211	9/20/2011 11:05	0.05	50
212	9/20/2011 11:06	0.027	27
213	9/20/2011 11:07	0	0
214	9/20/2011 11:08	0.016	16
215	9/20/2011 11:09	0.001	1
216	9/20/2011 11:10	0	0
217	9/20/2011 11:11	0	0
218	9/20/2011 11:12	0	0
219	9/20/2011 11:13	0	0
220	9/20/2011 11:14	0.066	66
221	9/20/2011 11:15	0.041	41
222	9/20/2011 11:16	0.026	26
223	9/20/2011 11:17	0.001	1
224	9/20/2011 11:18	0.027	27
225	9/20/2011 11:19	0.08	80
226	9/20/2011 11:20	0.022	22
227	9/20/2011 11:21	0.02	20
228	9/20/2011 11:22	0.026	26
229	9/20/2011 11:23	0.007	7
230	9/20/2011 11:24	0.008	8
231	9/20/2011 11:25	0	0
232	9/20/2011 11:26	0.003	3
233	9/20/2011 11:27	0.015	15
234	9/20/2011 11:28	0.02	20
235	9/20/2011 11:29	0.002	2
236	9/20/2011 11:30	0.01	10
237	9/20/2011 11:31	0.016	16
238	9/20/2011 11:32	0.004	4
239	9/20/2011 11:33	0.022	22
240	9/20/2011 11:34	0.017	17
241	9/20/2011 11:35	0	0
242	9/20/2011 11:36	0	0
243	9/20/2011 11:37	0	0
244	9/20/2011 11:38	0.002	2
245	9/20/2011 11:39	0	0
246	9/20/2011 11:40	0	0
247	9/20/2011 11:41	0.015	15
248	9/20/2011 11:42	0.003	3
249	9/20/2011 11:43	0.003	3
250	9/20/2011 11:44	0.042	42
251	9/20/2011 11:45	0.003	3
252	9/20/2011 11:46	0.016	16
253	9/20/2011 11:47	0.002	2
254	9/20/2011 11:48	0.09	90
255	9/20/2011 11:49	0.025	25
256	9/20/2011 11:50	0	0
257	9/20/2011 11:51	0.001	1
258	9/20/2011 11:52	0.002	2
259	9/20/2011 11:53	0.013	13
260	9/20/2011 11:54	0	0
261	9/20/2011 11:55	0	0
262	9/20/2011 11:56	0.002	2
263	9/20/2011 11:57	0.013	13
264	9/20/2011 11:58	0.015	15
265	9/20/2011 11:59	0.002	2
266	9/20/2011 12:00	0.012	12
267	9/20/2011 12:01	0.075	75
268	9/20/2011 12:02	0.012	12
269	9/20/2011 12:03	0.046	46
270	9/20/2011 12:04	0.005	5
271	9/20/2011 12:05	0.002	2
272	9/20/2011 12:06	0.017	17
273	9/20/2011 12:07	0.02	20

274	9/20/2011 12:08	0.016	16
275	9/20/2011 12:09	0	0
276	9/20/2011 12:10	0.007	7
277	9/20/2011 12:11	0	0
278	9/20/2011 12:12	0	0
279	9/20/2011 12:13	0	0
280	9/20/2011 12:14	0.016	16
281	9/20/2011 12:15	0	0
282	9/20/2011 12:16	0.014	14
283	9/20/2011 12:17	0.148	148
284	9/20/2011 12:18	0.053	53
285	9/20/2011 12:19	0.044	44
286	9/20/2011 12:20	0.003	3
287	9/20/2011 12:21	0.049	49
288	9/20/2011 12:22	0.175	175
289	9/20/2011 12:23	0.127	127
290	9/20/2011 12:24	0.038	38
291	9/20/2011 12:25	0.149	149
292	9/20/2011 12:26	0.078	78
293	9/20/2011 12:27	0.135	135
294	9/20/2011 12:28	0.097	97
295	9/20/2011 12:29	0.071	71
296	9/20/2011 12:30	0.086	86
297	9/20/2011 12:31	0.074	74
298	9/20/2011 12:32	0.08	80
299	9/20/2011 12:33	0.284	284
300	9/20/2011 12:34	0.011	11
301	9/20/2011 12:35	0.061	61
302	9/20/2011 12:36	0.047	47
303	9/20/2011 12:37	0.043	43
304	9/20/2011 12:38	0.086	86
305	9/20/2011 12:39	0.109	109
306	9/20/2011 12:40	0.031	31
307	9/20/2011 12:41	0.041	41
308	9/20/2011 12:42	0	0
309	9/20/2011 12:43	0	0
310	9/20/2011 12:44	0	0
311	9/20/2011 12:45	0	0
312	9/20/2011 12:46	0.012	12
313	9/20/2011 12:47	0.091	91
314	9/20/2011 12:48	0.054	54
315	9/20/2011 12:49	0.049	49
316	9/20/2011 12:50	0.05	50
317	9/20/2011 12:51	0.271	271
318	9/20/2011 12:52	0.5	500
319	9/20/2011 12:53	0.393	393
320	9/20/2011 12:54	1.051	1051
321	9/20/2011 12:55	0.486	486
322	9/20/2011 12:56	0.104	104
323	9/20/2011 12:57	0.058	58
324	9/20/2011 12:58	0.273	273
325	9/20/2011 12:59	0.115	115
326	9/20/2011 13:00	0.064	64
327	9/20/2011 13:01	0.08	80
328	9/20/2011 13:02	0.414	414
329	9/20/2011 13:03	0.546	546
330	9/20/2011 13:04	0.377	377
331	9/20/2011 13:05	0.165	165
332	9/20/2011 13:06	0.23	230
333	9/20/2011 13:07	0.054	54
334	9/20/2011 13:08	0.3	300
335	9/20/2011 13:09	0.878	878
336	9/20/2011 13:10	0.375	375
337	9/20/2011 13:11	0.169	169
338	9/20/2011 13:12	0.162	162
339	9/20/2011 13:13	0.143	143
340	9/20/2011 13:14	0.117	117
341	9/20/2011 13:15	0.147	147
342	9/20/2011 13:16	0.405	405
343	9/20/2011 13:17	0.262	262
344	9/20/2011 13:18	0.371	371
345	9/20/2011 13:19	0.182	182
346	9/20/2011 13:20	0.105	105
347	9/20/2011 13:21	0.133	133
348	9/20/2011 13:22	0.09	90
349	9/20/2011 13:23	0.106	106
350	9/20/2011 13:24	0.103	103
351	9/20/2011 13:25	0.088	88
352	9/20/2011 13:26	0.196	196
353	9/20/2011 13:27	0.115	115
354	9/20/2011 13:28	0.164	164
355	9/20/2011 13:29	0.157	157
356	9/20/2011 13:30	0.152	152
357	9/20/2011 13:31	0.15	150
358	9/20/2011 13:32	0.114	114
359	9/20/2011 13:33	0.179	179
360	9/20/2011 13:34	0.152	152
361	9/20/2011 13:35	0.103	103
362	9/20/2011 13:36	0.055	55
363	9/20/2011 13:37	0.058	58
364	9/20/2011 13:38	0.132	132
365	9/20/2011 13:39	0.153	153
366	9/20/2011 13:40	0.281	281
367	9/20/2011 13:41	0.234	234
368	9/20/2011 13:42	0.083	83
369	9/20/2011 13:43	0.067	67
370	9/20/2011 13:44	0.208	208
371	9/20/2011 13:45	0.419	419

372	9/20/2011 13:46	0.429	429
373	9/20/2011 13:47	0.105	105
374	9/20/2011 13:48	0.177	177
375	9/20/2011 13:49	0.16	160
376	9/20/2011 13:50	0.146	146
377	9/20/2011 13:51	0.095	95
378	9/20/2011 13:52	0.036	36
379	9/20/2011 13:53	0.076	76
380	9/20/2011 13:54	0.045	45
381	9/20/2011 13:55	0.099	99
382	9/20/2011 13:56	0.118	118
383	9/20/2011 13:57	0.129	129
384	9/20/2011 13:58	0.17	170
385	9/20/2011 13:59	0.127	127
386	9/20/2011 14:00	0.053	53
387	9/20/2011 14:01	0.161	161
388	9/20/2011 14:02	0.155	155
389	9/20/2011 14:03	0.065	65
390	9/20/2011 14:04	0.044	44
391	9/20/2011 14:05	0.216	216
392	9/20/2011 14:06	0.389	389
393	9/20/2011 14:07	0.142	142
394	9/20/2011 14:08	0.086	86
395	9/20/2011 14:09	0.107	107
396	9/20/2011 14:10	0.124	124
397	9/20/2011 14:11	0.108	108
398	9/20/2011 14:12	0.098	98
399	9/20/2011 14:13	0.129	129
400	9/20/2011 14:14	0.147	147
401	9/20/2011 14:15	0.205	205
402	9/20/2011 14:16	0.399	399
403	9/20/2011 14:17	0.276	276
404	9/20/2011 14:18	0.641	641
405	9/20/2011 14:19	0.379	379
406	9/20/2011 14:20	0.384	384
407	9/20/2011 14:21	0.631	631
408	9/20/2011 14:22	0.8	800
409	9/20/2011 14:23	0.826	826
410	9/20/2011 14:24	0.62	620
411	9/20/2011 14:25	0.578	578
412	9/20/2011 14:26	0.463	463
413	9/20/2011 14:27	0.667	667
414	9/20/2011 14:28	0.76	760
415	9/20/2011 14:29	0.452	452
416	9/20/2011 14:30	0.541	541
417	9/20/2011 14:31	0.575	575
418	9/20/2011 14:32	0.549	549
419	9/20/2011 14:33	0.559	559
420	9/20/2011 14:34	0.656	656
421	9/20/2011 14:35	0.182	182
422	9/20/2011 14:36	0.247	247
423	9/20/2011 14:37	0.369	369
424	9/20/2011 14:38	0.29	290
425	9/20/2011 14:39	0.218	218
426	9/20/2011 14:40	0.189	189
427	9/20/2011 14:41	0.296	296
428	9/20/2011 14:42	0.24	240
429	9/20/2011 14:43	0.382	382
430	9/20/2011 14:44	0.379	379
431	9/20/2011 14:45	0.273	273
432	9/20/2011 14:46	0.53	530
433	9/20/2011 14:47	0.513	513
434	9/20/2011 14:48	0.271	271
435	9/20/2011 14:49	0.41	410
436	9/20/2011 14:50	0.28	280
437	9/20/2011 14:51	0.195	195
438	9/20/2011 14:52	0.174	174
439	9/20/2011 14:53	0.206	206
440	9/20/2011 14:54	0.142	142
441	9/20/2011 14:55	0.085	85
442	9/20/2011 14:56	0.102	102
443	9/20/2011 14:57	0.184	184
444	9/20/2011 14:58	0.278	278
445	9/20/2011 14:59	0.308	308
446	9/20/2011 15:00	0.349	349
447	9/20/2011 15:01	0.346	346
448	9/20/2011 15:02	0.356	356
449	9/20/2011 15:03	0.332	332
450	9/20/2011 15:04	0.177	177
451	9/20/2011 15:05	0.445	445

==========Event #12 information (end)==========

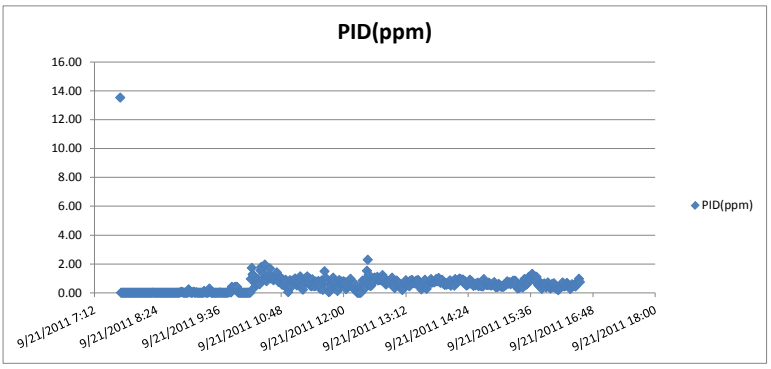
=========Event #16 information (begin)=========
==========
[Event #16 name:]--[Event #16]2011-09-21 07:20<-->2011-09-21 07:27
[Event start time:]--2011-09-21 07:20:19[Event end time:]--2011-09-21 07:27:19
==========Event #16 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367
Data Points: 7 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID(ppb)
Measurement Gas : Isobutene
Calibration Time : 2011-09-20 07:33:00
Drift Value : ---
Low Alarm Levels : 25847
High Alarm Levels : 51694
Span Value : 100000
Correction Factor : 1.00
Over Alarm Levels : 15000000
==========Event #16 data informations==========

LINE#	Date/Time	PID(ppb)
1	9/21/2011 7:21	0
2	9/21/2011 7:22	0
3	9/21/2011 7:23	0
4	9/21/2011 7:24	0
5	9/21/2011 7:25	0
6	9/21/2011 7:26	0
7	9/21/2011 7:27	0

==========Event #16 information (end)==========

=========Event #17 information (begin)=========
==========
[Event #17 name:]--[Event #17]2011-09-21 07:41<-->2011-09-21 16:33
[Event start time:]--2011-09-21 07:41:38[Event end time:]--2011-09-21 16:33:38
==========Event #17 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367
Data Points: 532 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID(ppb)
Measurement Gas : Isobutene
Calibration Time : 2011-09-21 07:41:00
Drift Value : ---
Low Alarm Levels : 25847
High Alarm Levels : 51694
Span Value : 100000
Correction Factor : 1.00
Over Alarm Levels : 15000000
==========Event #17 data informations==========

LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/21/2011 7:42	13.53	13525
2	9/21/2011 7:43	0.00	1
3	9/21/2011 7:44	0.00	0
4	9/21/2011 7:45	0.00	0
5	9/21/2011 7:46	0.00	0
6	9/21/2011 7:47	0.00	0
7	9/21/2011 7:48	0.00	0
8	9/21/2011 7:49	0.00	0
9	9/21/2011 7:50	0.00	0
10	9/21/2011 7:51	0.00	0
11	9/21/2011 7:52	0.00	0
12	9/21/2011 7:53	0.00	0
13	9/21/2011 7:54	0.00	0
14	9/21/2011 7:55	0.00	0
15	9/21/2011 7:56	0.00	0
16	9/21/2011 7:57	0.00	0
17	9/21/2011 7:58	0.00	0
18	9/21/2011 7:59	0.00	0
19	9/21/2011 8:00	0.00	0
20	9/21/2011 8:01	0.00	0
21	9/21/2011 8:02	0.00	0
22	9/21/2011 8:03	0.00	0
23	9/21/2011 8:04	0.00	0
24	9/21/2011 8:05	0.00	0
25	9/21/2011 8:06	0.00	0
26	9/21/2011 8:07	0.00	0
27	9/21/2011 8:08	0.00	0
28	9/21/2011 8:09	0.00	0
29	9/21/2011 8:10	0.00	0
30	9/21/2011 8:11	0.00	0
31	9/21/2011 8:12	0.00	0
32	9/21/2011 8:13	0.00	0
33	9/21/2011 8:14	0.00	0
34	9/21/2011 8:15	0.00	0
35	9/21/2011 8:16	0.00	0
36	9/21/2011 8:17	0.00	0
37	9/21/2011 8:18	0.00	0
38	9/21/2011 8:19	0.00	0
39	9/21/2011 8:20	0.01	13
40	9/21/2011 8:21	0.00	0
41	9/21/2011 8:22	0.00	0



42	9/21/2011 8:23	0.00	0
43	9/21/2011 8:24	0.00	0
44	9/21/2011 8:25	0.00	0
45	9/21/2011 8:26	0.00	0
46	9/21/2011 8:27	0.00	0
47	9/21/2011 8:28	0.00	0
48	9/21/2011 8:29	0.00	0
49	9/21/2011 8:30	0.00	0
50	9/21/2011 8:31	0.00	0
51	9/21/2011 8:32	0.00	0
52	9/21/2011 8:33	0.00	0
53	9/21/2011 8:34	0.00	0
54	9/21/2011 8:35	0.00	0
55	9/21/2011 8:36	0.00	0
56	9/21/2011 8:37	0.00	0
57	9/21/2011 8:38	0.00	0
58	9/21/2011 8:39	0.00	0
59	9/21/2011 8:40	0.00	0
60	9/21/2011 8:41	0.00	0
61	9/21/2011 8:42	0.00	0
62	9/21/2011 8:43	0.00	0
63	9/21/2011 8:44	0.00	0
64	9/21/2011 8:45	0.00	0
65	9/21/2011 8:46	0.00	0
66	9/21/2011 8:47	0.00	0
67	9/21/2011 8:48	0.00	0
68	9/21/2011 8:49	0.01	7
69	9/21/2011 8:50	0.00	0
70	9/21/2011 8:51	0.02	21
71	9/21/2011 8:52	0.04	37
72	9/21/2011 8:53	0.07	69
73	9/21/2011 8:54	0.03	31
74	9/21/2011 8:55	0.00	0
75	9/21/2011 8:56	0.00	0
76	9/21/2011 8:57	0.00	0
77	9/21/2011 8:58	0.00	0
78	9/21/2011 8:59	0.00	0
79	9/21/2011 9:00	0.00	1
80	9/21/2011 9:01	0.23	231
81	9/21/2011 9:02	0.14	138
82	9/21/2011 9:03	0.03	30
83	9/21/2011 9:04	0.00	0
84	9/21/2011 9:05	0.00	0
85	9/21/2011 9:06	0.02	24
86	9/21/2011 9:07	0.08	80
87	9/21/2011 9:08	0.00	4
88	9/21/2011 9:09	0.00	0
89	9/21/2011 9:10	0.04	35
90	9/21/2011 9:11	0.00	0
91	9/21/2011 9:12	0.00	0
92	9/21/2011 9:13	0.00	0
93	9/21/2011 9:14	0.00	3
94	9/21/2011 9:15	0.00	0
95	9/21/2011 9:16	0.00	0
96	9/21/2011 9:17	0.00	0
97	9/21/2011 9:18	0.00	0
98	9/21/2011 9:19	0.12	124
99	9/21/2011 9:20	0.03	25
100	9/21/2011 9:21	0.02	16
101	9/21/2011 9:22	0.00	0
102	9/21/2011 9:23	0.00	0
103	9/21/2011 9:24	0.02	23
104	9/21/2011 9:25	0.29	294
105	9/21/2011 9:26	0.08	76
106	9/21/2011 9:27	0.00	0
107	9/21/2011 9:28	0.00	0
108	9/21/2011 9:29	0.00	0
109	9/21/2011 9:30	0.00	0
110	9/21/2011 9:31	0.00	0
111	9/21/2011 9:32	0.00	0
112	9/21/2011 9:33	0.00	0
113	9/21/2011 9:34	0.00	0
114	9/21/2011 9:35	0.00	0
115	9/21/2011 9:36	0.00	0
116	9/21/2011 9:37	0.03	27
117	9/21/2011 9:38	0.00	0
118	9/21/2011 9:39	0.00	0
119	9/21/2011 9:40	0.00	0
120	9/21/2011 9:41	0.00	0
121	9/21/2011 9:42	0.00	0
122	9/21/2011 9:43	0.00	0
123	9/21/2011 9:44	0.00	0
124	9/21/2011 9:45	0.00	0
125	9/21/2011 9:46	0.00	0
126	9/21/2011 9:47	0.03	30
127	9/21/2011 9:48	0.04	35
128	9/21/2011 9:49	0.21	208
129	9/21/2011 9:50	0.03	26
130	9/21/2011 9:51	0.41	413
131	9/21/2011 9:52	0.21	213
132	9/21/2011 9:53	0.21	214
133	9/21/2011 9:54	0.39	394
134	9/21/2011 9:55	0.36	356

135	9/21/2011 9:56	0.41	409
136	9/21/2011 9:57	0.41	408
137	9/21/2011 9:58	0.03	33
138	9/21/2011 9:59	0.00	0
139	9/21/2011 10:00	0.00	0
140	9/21/2011 10:01	0.00	0
141	9/21/2011 10:02	0.00	0
142	9/21/2011 10:03	0.00	0
143	9/21/2011 10:04	0.00	4
144	9/21/2011 10:05	0.00	0
145	9/21/2011 10:06	0.00	0
146	9/21/2011 10:07	0.00	0
147	9/21/2011 10:08	0.00	0
148	9/21/2011 10:09	0.00	0
149	9/21/2011 10:10	0.00	0
150	9/21/2011 10:11	0.01	9
151	9/21/2011 10:12	0.00	0
152	9/21/2011 10:13	0.96	957
153	9/21/2011 10:14	1.73	1727
154	9/21/2011 10:15	1.28	1283
155	9/21/2011 10:16	1.18	1183
156	9/21/2011 10:17	0.37	373
157	9/21/2011 10:18	0.66	659
158	9/21/2011 10:19	0.60	602
159	9/21/2011 10:20	0.77	767
160	9/21/2011 10:21	0.96	959
161	9/21/2011 10:22	0.69	689
162	9/21/2011 10:23	0.59	586
163	9/21/2011 10:24	1.55	1550
164	9/21/2011 10:25	1.79	1794
165	9/21/2011 10:26	1.61	1610
166	9/21/2011 10:27	0.97	973
167	9/21/2011 10:28	1.34	1340
168	9/21/2011 10:29	1.95	1951
169	9/21/2011 10:30	0.89	893
170	9/21/2011 10:31	0.81	806
171	9/21/2011 10:32	1.12	1117
172	9/21/2011 10:33	1.09	1091
173	9/21/2011 10:34	1.23	1225
174	9/21/2011 10:35	1.69	1688
175	9/21/2011 10:36	0.99	991
176	9/21/2011 10:37	1.02	1018
177	9/21/2011 10:38	1.11	1107
178	9/21/2011 10:39	0.87	874
179	9/21/2011 10:40	0.97	968
180	9/21/2011 10:41	1.06	1062
181	9/21/2011 10:42	1.06	1059
182	9/21/2011 10:43	1.42	1415
183	9/21/2011 10:44	0.95	948
184	9/21/2011 10:45	0.75	749
185	9/21/2011 10:46	0.98	983
186	9/21/2011 10:47	1.08	1075
187	9/21/2011 10:48	0.99	990
188	9/21/2011 10:49	0.56	563
189	9/21/2011 10:50	0.92	915
190	9/21/2011 10:51	0.53	528
191	9/21/2011 10:52	0.70	703
192	9/21/2011 10:53	0.91	905
193	9/21/2011 10:54	0.78	777
194	9/21/2011 10:55	0.31	312
195	9/21/2011 10:56	0.05	49
196	9/21/2011 10:57	0.47	471
197	9/21/2011 10:58	0.87	871
198	9/21/2011 10:59	0.59	594
199	9/21/2011 11:00	0.42	424
200	9/21/2011 11:01	0.85	848
201	9/21/2011 11:02	0.78	784
202	9/21/2011 11:03	0.81	806
203	9/21/2011 11:04	0.99	987
204	9/21/2011 11:05	0.65	652
205	9/21/2011 11:06	0.52	519
206	9/21/2011 11:07	0.59	592
207	9/21/2011 11:08	0.69	688
208	9/21/2011 11:09	0.67	674
209	9/21/2011 11:10	1.14	1135
210	9/21/2011 11:11	0.86	864
211	9/21/2011 11:12	0.51	511
212	9/21/2011 11:13	0.21	211
213	9/21/2011 11:14	0.54	535
214	9/21/2011 11:15	0.79	788
215	9/21/2011 11:16	1.00	1001
216	9/21/2011 11:17	1.03	1033
217	9/21/2011 11:18	1.14	1140
218	9/21/2011 11:19	0.82	817
219	9/21/2011 11:20	0.69	686
220	9/21/2011 11:21	0.97	969
221	9/21/2011 11:22	0.48	478
222	9/21/2011 11:23	0.45	449
223	9/21/2011 11:24	0.94	938
224	9/21/2011 11:25	0.67	672
225	9/21/2011 11:26	0.46	463
226	9/21/2011 11:27	0.46	455
227	9/21/2011 11:28	0.79	785

228	9/21/2011 11:29	0.52	518
229	9/21/2011 11:30	0.72	720
230	9/21/2011 11:31	0.81	814
231	9/21/2011 11:32	0.56	561
232	9/21/2011 11:33	0.28	279
233	9/21/2011 11:34	0.43	432
234	9/21/2011 11:35	0.86	864
235	9/21/2011 11:36	0.21	207
236	9/21/2011 11:37	0.87	873
237	9/21/2011 11:38	1.49	1485
238	9/21/2011 11:39	0.81	814
239	9/21/2011 11:40	1.00	999
240	9/21/2011 11:41	0.86	858
241	9/21/2011 11:42	0.70	704
242	9/21/2011 11:43	0.05	50
243	9/21/2011 11:44	0.10	95
244	9/21/2011 11:45	0.34	340
245	9/21/2011 11:46	0.60	595
246	9/21/2011 11:47	0.83	827
247	9/21/2011 11:48	1.04	1044
248	9/21/2011 11:49	0.77	765
249	9/21/2011 11:50	0.30	301
250	9/21/2011 11:51	0.66	659
251	9/21/2011 11:52	0.25	254
252	9/21/2011 11:53	0.12	124
253	9/21/2011 11:54	0.41	410
254	9/21/2011 11:55	0.88	884
255	9/21/2011 11:56	0.63	633
256	9/21/2011 11:57	0.66	664
257	9/21/2011 11:58	0.78	781
258	9/21/2011 11:59	0.73	728
259	9/21/2011 12:00	0.79	793
260	9/21/2011 12:01	0.75	748
261	9/21/2011 12:02	0.72	717
262	9/21/2011 12:03	0.25	245
263	9/21/2011 12:04	0.46	457
264	9/21/2011 12:05	0.75	745
265	9/21/2011 12:06	0.47	472
266	9/21/2011 12:07	0.61	610
267	9/21/2011 12:08	0.97	968
268	9/21/2011 12:09	0.55	549
269	9/21/2011 12:10	0.51	509
270	9/21/2011 12:11	0.50	498
271	9/21/2011 12:12	0.26	259
272	9/21/2011 12:13	0.62	622
273	9/21/2011 12:14	0.17	166
274	9/21/2011 12:15	0.11	113
275	9/21/2011 12:16	0.00	4
276	9/21/2011 12:17	0.00	0
277	9/21/2011 12:18	0.00	0
278	9/21/2011 12:19	0.00	0
279	9/21/2011 12:20	0.00	0
280	9/21/2011 12:21	0.40	399
281	9/21/2011 12:22	0.85	848
282	9/21/2011 12:23	0.63	628
283	9/21/2011 12:24	0.41	412
284	9/21/2011 12:25	0.32	323
285	9/21/2011 12:26	0.98	981
286	9/21/2011 12:27	1.52	1518
287	9/21/2011 12:28	2.29	2286
288	9/21/2011 12:29	1.26	1262
289	9/21/2011 12:30	0.71	706
290	9/21/2011 12:31	0.47	470
291	9/21/2011 12:32	0.51	507
292	9/21/2011 12:33	0.64	642
293	9/21/2011 12:34	0.81	810
294	9/21/2011 12:35	0.99	987
295	9/21/2011 12:36	1.06	1059
296	9/21/2011 12:37	0.92	916
297	9/21/2011 12:38	0.95	946
298	9/21/2011 12:39	1.10	1100
299	9/21/2011 12:40	0.86	857
300	9/21/2011 12:41	0.89	892
301	9/21/2011 12:42	0.88	882
302	9/21/2011 12:43	1.05	1050
303	9/21/2011 12:44	0.86	858
304	9/21/2011 12:45	1.22	1224
305	9/21/2011 12:46	1.06	1061
306	9/21/2011 12:47	0.94	940
307	9/21/2011 12:48	0.68	682
308	9/21/2011 12:49	0.57	569
309	9/21/2011 12:50	0.68	683
310	9/21/2011 12:51	0.81	808
311	9/21/2011 12:52	0.72	721
312	9/21/2011 12:53	0.82	817
313	9/21/2011 12:54	0.64	643
314	9/21/2011 12:55	0.88	880
315	9/21/2011 12:56	1.05	1050
316	9/21/2011 12:57	0.63	633
317	9/21/2011 12:58	0.66	660
318	9/21/2011 12:59	0.32	320
319	9/21/2011 13:00	0.55	553
320	9/21/2011 13:01	0.85	847

321	9/21/2011 13:02	0.80	797
322	9/21/2011 13:03	0.63	631
323	9/21/2011 13:04	0.65	652
324	9/21/2011 13:05	0.62	623
325	9/21/2011 13:06	0.40	403
326	9/21/2011 13:07	0.52	523
327	9/21/2011 13:08	0.20	196
328	9/21/2011 13:09	0.27	270
329	9/21/2011 13:10	0.67	667
330	9/21/2011 13:11	0.66	661
331	9/21/2011 13:12	0.87	865
332	9/21/2011 13:13	0.64	644
333	9/21/2011 13:14	0.72	719
334	9/21/2011 13:15	0.58	579
335	9/21/2011 13:16	0.44	442
336	9/21/2011 13:17	0.84	835
337	9/21/2011 13:18	0.66	662
338	9/21/2011 13:19	0.90	896
339	9/21/2011 13:20	0.66	664
340	9/21/2011 13:21	0.71	710
341	9/21/2011 13:22	0.67	665
342	9/21/2011 13:23	0.63	633
343	9/21/2011 13:24	0.85	847
344	9/21/2011 13:25	0.83	826
345	9/21/2011 13:26	0.88	884
346	9/21/2011 13:27	0.80	801
347	9/21/2011 13:28	0.65	649
348	9/21/2011 13:29	0.36	359
349	9/21/2011 13:30	0.23	232
350	9/21/2011 13:31	0.48	484
351	9/21/2011 13:32	0.67	669
352	9/21/2011 13:33	0.63	632
353	9/21/2011 13:34	0.90	904
354	9/21/2011 13:35	0.39	393
355	9/21/2011 13:36	0.27	271
356	9/21/2011 13:37	0.55	553
357	9/21/2011 13:38	0.63	629
358	9/21/2011 13:39	0.77	773
359	9/21/2011 13:40	0.80	795
360	9/21/2011 13:41	0.95	945
361	9/21/2011 13:42	0.69	686
362	9/21/2011 13:43	0.78	779
363	9/21/2011 13:44	0.73	730
364	9/21/2011 13:45	0.73	726
365	9/21/2011 13:46	0.81	807
366	9/21/2011 13:47	0.94	941
367	9/21/2011 13:48	0.79	789
368	9/21/2011 13:49	0.96	963
369	9/21/2011 13:50	1.02	1024
370	9/21/2011 13:51	0.76	758
371	9/21/2011 13:52	0.69	692
372	9/21/2011 13:53	0.89	893
373	9/21/2011 13:54	0.89	893
374	9/21/2011 13:55	0.63	631
375	9/21/2011 13:56	0.67	667
376	9/21/2011 13:57	0.55	547
377	9/21/2011 13:58	0.68	683
378	9/21/2011 13:59	0.56	557
379	9/21/2011 14:00	0.65	646
380	9/21/2011 14:01	0.61	605
381	9/21/2011 14:02	0.76	764
382	9/21/2011 14:03	0.86	863
383	9/21/2011 14:04	0.49	490
384	9/21/2011 14:05	0.63	629
385	9/21/2011 14:06	0.77	767
386	9/21/2011 14:07	0.68	678
387	9/21/2011 14:08	0.49	486
388	9/21/2011 14:09	0.95	945
389	9/21/2011 14:10	0.70	702
390	9/21/2011 14:11	0.70	697
391	9/21/2011 14:12	0.73	733
392	9/21/2011 14:13	0.91	908
393	9/21/2011 14:14	0.98	977
394	9/21/2011 14:15	0.96	959
395	9/21/2011 14:16	0.85	845
396	9/21/2011 14:17	0.89	888
397	9/21/2011 14:18	0.92	918
398	9/21/2011 14:19	0.69	692
399	9/21/2011 14:20	0.81	808
400	9/21/2011 14:21	0.61	607
401	9/21/2011 14:22	0.50	499
402	9/21/2011 14:23	0.53	531
403	9/21/2011 14:24	0.60	604
404	9/21/2011 14:25	0.66	662
405	9/21/2011 14:26	0.91	905
406	9/21/2011 14:27	0.65	650
407	9/21/2011 14:28	0.78	775
408	9/21/2011 14:29	0.60	603
409	9/21/2011 14:30	0.48	484
410	9/21/2011 14:31	0.56	562
411	9/21/2011 14:32	0.52	516
412	9/21/2011 14:33	0.64	635
413	9/21/2011 14:34	0.58	584

414	9/21/2011 14:35	0.71	705
415	9/21/2011 14:36	0.46	463
416	9/21/2011 14:37	0.53	525
417	9/21/2011 14:38	0.56	555
418	9/21/2011 14:39	0.46	457
419	9/21/2011 14:40	0.49	486
420	9/21/2011 14:41	0.43	432
421	9/21/2011 14:42	0.95	948
422	9/21/2011 14:43	0.64	641
423	9/21/2011 14:44	0.64	639
424	9/21/2011 14:45	0.55	547
425	9/21/2011 14:46	0.55	545
426	9/21/2011 14:47	0.55	547
427	9/21/2011 14:48	0.71	706
428	9/21/2011 14:49	0.58	584
429	9/21/2011 14:50	0.50	503
430	9/21/2011 14:51	0.52	516
431	9/21/2011 14:52	0.60	598
432	9/21/2011 14:53	0.66	663
433	9/21/2011 14:54	0.74	735
434	9/21/2011 14:55	0.53	525
435	9/21/2011 14:56	0.38	375
436	9/21/2011 14:57	0.53	527
437	9/21/2011 14:58	0.40	396
438	9/21/2011 14:59	0.61	610
439	9/21/2011 15:00	0.54	543
440	9/21/2011 15:01	0.51	505
441	9/21/2011 15:02	0.41	414
442	9/21/2011 15:03	0.46	458
443	9/21/2011 15:04	0.42	418
444	9/21/2011 15:05	0.42	424
445	9/21/2011 15:06	0.57	569
446	9/21/2011 15:07	0.52	516
447	9/21/2011 15:08	0.70	695
448	9/21/2011 15:09	0.79	787
449	9/21/2011 15:10	0.62	624
450	9/21/2011 15:11	0.70	703
451	9/21/2011 15:12	0.73	727
452	9/21/2011 15:13	0.60	596
453	9/21/2011 15:14	0.71	709
454	9/21/2011 15:15	0.66	664
455	9/21/2011 15:16	0.84	839
456	9/21/2011 15:17	0.73	729
457	9/21/2011 15:18	0.84	839
458	9/21/2011 15:19	0.78	784
459	9/21/2011 15:20	0.58	575
460	9/21/2011 15:21	0.31	308
461	9/21/2011 15:22	0.39	385
462	9/21/2011 15:23	0.32	323
463	9/21/2011 15:24	0.47	474
464	9/21/2011 15:25	0.55	554
465	9/21/2011 15:26	0.54	542
466	9/21/2011 15:27	0.35	353
467	9/21/2011 15:28	0.77	770
468	9/21/2011 15:29	0.95	953
469	9/21/2011 15:30	0.90	896
470	9/21/2011 15:31	0.56	563
471	9/21/2011 15:32	0.61	611
472	9/21/2011 15:33	0.71	712
473	9/21/2011 15:34	1.10	1096
474	9/21/2011 15:35	0.92	918
475	9/21/2011 15:36	0.87	872
476	9/21/2011 15:37	1.20	1199
477	9/21/2011 15:38	1.31	1313
478	9/21/2011 15:39	1.18	1184
479	9/21/2011 15:40	1.04	1035
480	9/21/2011 15:41	0.82	823
481	9/21/2011 15:42	1.12	1115
482	9/21/2011 15:43	1.10	1104
483	9/21/2011 15:44	0.89	892
484	9/21/2011 15:45	0.53	534
485	9/21/2011 15:46	0.48	478
486	9/21/2011 15:47	0.57	566
487	9/21/2011 15:48	0.66	659
488	9/21/2011 15:49	0.27	274
489	9/21/2011 15:50	0.57	574
490	9/21/2011 15:51	0.56	557
491	9/21/2011 15:52	0.65	651
492	9/21/2011 15:53	0.50	498
493	9/21/2011 15:54	0.36	364
494	9/21/2011 15:55	0.59	593
495	9/21/2011 15:56	0.71	713
496	9/21/2011 15:57	0.46	458
497	9/21/2011 15:58	0.41	409
498	9/21/2011 15:59	0.29	289
499	9/21/2011 16:00	0.39	389
500	9/21/2011 16:01	0.62	617
501	9/21/2011 16:02	0.40	400
502	9/21/2011 16:03	0.65	653
503	9/21/2011 16:04	0.39	389
504	9/21/2011 16:05	0.44	437
505	9/21/2011 16:06	0.26	258
506	9/21/2011 16:07	0.32	320

507	9/21/2011 16:08	0.18	181
508	9/21/2011 16:09	0.28	282
509	9/21/2011 16:10	0.39	387
510	9/21/2011 16:11	0.38	384
511	9/21/2011 16:12	0.47	466
512	9/21/2011 16:13	0.71	711
513	9/21/2011 16:14	0.49	491
514	9/21/2011 16:15	0.44	436
515	9/21/2011 16:16	0.47	474
516	9/21/2011 16:17	0.56	560
517	9/21/2011 16:18	0.68	676
518	9/21/2011 16:19	0.61	607
519	9/21/2011 16:20	0.54	537
520	9/21/2011 16:21	0.48	484
521	9/21/2011 16:22	0.26	259
522	9/21/2011 16:23	0.45	452
523	9/21/2011 16:24	0.59	594
524	9/21/2011 16:25	0.52	520
525	9/21/2011 16:26	0.51	506
526	9/21/2011 16:27	0.48	484
527	9/21/2011 16:28	0.43	431
528	9/21/2011 16:29	0.58	579
529	9/21/2011 16:30	0.64	639
530	9/21/2011 16:31	0.79	788
531	9/21/2011 16:32	0.96	963
532	9/21/2011 16:33	0.74	744

==========Event #17 information (end)==========

=========Event #23 information (begin)=========

[Event #23 name:]--[Event #23]2011-09-22 07:33<-->2011-09-22 07:49

[Event start time:]--2011-09-22 07:33:55[Event end time:]--2011-09-22 07:49:55

==========Event #23 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 16 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-22 07:33:00

Drift Value : ---

Low Alarm Levels : 25847

High Alarm Levels : 51694

Span Value : 100000

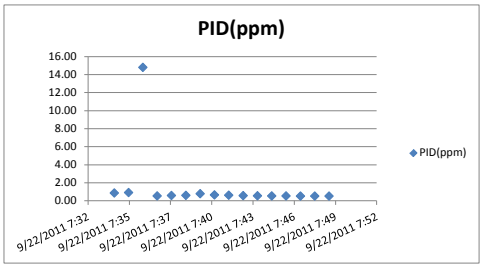
Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #23 data informations==========

LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/22/2011 7:34	0.87	873
2	9/22/2011 7:35	0.91	911
3	9/22/2011 7:36	14.79	14793
4	9/22/2011 7:37	0.54	540
5	9/22/2011 7:38	0.60	596
6	9/22/2011 7:39	0.60	602
7	9/22/2011 7:40	0.78	782
8	9/22/2011 7:41	0.65	650
9	9/22/2011 7:42	0.62	618
10	9/22/2011 7:43	0.57	573
11	9/22/2011 7:44	0.56	557
12	9/22/2011 7:45	0.54	542
13	9/22/2011 7:46	0.54	540
14	9/22/2011 7:47	0.53	533
15	9/22/2011 7:48	0.53	527
16	9/22/2011 7:49	0.52	523

==========Event #23 information (end)==========



=========Event #24 information (begin)=========

[Event #24 name:]--[Event #24]2011-09-22 08:53<-->2011-09-22 17:31

[Event start time:]--2011-09-22 08:53:25[Event end time:]--2011-09-22 17:31:25

==========Event #24 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 518 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-22 07:33:00

Drift Value : ---

Low Alarm Levels : 25847

High Alarm Levels : 51694

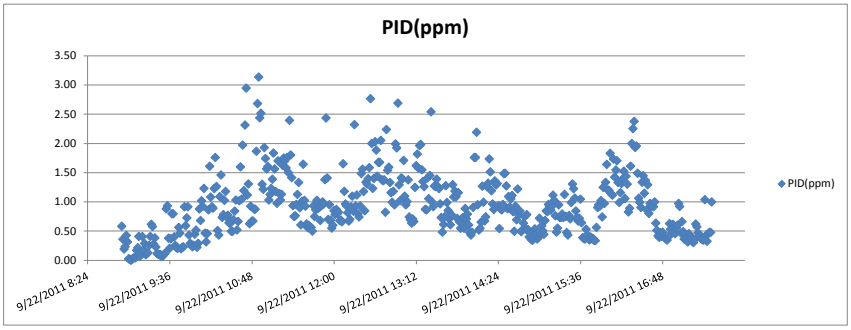
Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #24 data informations==========

LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/22/2011 8:54	0.58	581
2	9/22/2011 8:55	0.36	360
3	9/22/2011 8:56	0.19	191
4	9/22/2011 8:57	0.23	230
5	9/22/2011 8:58	0.42	424
6	9/22/2011 8:59	0.31	314
7	9/22/2011 9:00	0.02	23
8	9/22/2011 9:01	0.02	16
9	9/22/2011 9:02	0.00	0
10	9/22/2011 9:03	0.02	17
11	9/22/2011 9:04	0.03	33
12	9/22/2011 9:05	0.04	41
13	9/22/2011 9:06	0.04	43
14	9/22/2011 9:07	0.17	169
15	9/22/2011 9:08	0.21	212
16	9/22/2011 9:09	0.41	407
17	9/22/2011 9:10	0.07	67
18	9/22/2011 9:11	0.13	126
19	9/22/2011 9:12	0.41	406
20	9/22/2011 9:13	0.18	176
21	9/22/2011 9:14	0.29	286
22	9/22/2011 9:15	0.09	92
23	9/22/2011 9:16	0.12	118
24	9/22/2011 9:17	0.12	124
25	9/22/2011 9:18	0.25	254
26	9/22/2011 9:19	0.41	408
27	9/22/2011 9:20	0.62	615
28	9/22/2011 9:21	0.58	577
29	9/22/2011 9:22	0.28	276
30	9/22/2011 9:23	0.38	383
31	9/22/2011 9:24	0.23	226
32	9/22/2011 9:25	0.12	115
33	9/22/2011 9:26	0.10	100
34	9/22/2011 9:27	0.09	93
35	9/22/2011 9:28	0.10	95
36	9/22/2011 9:29	0.06	61
37	9/22/2011 9:30	0.07	73
38	9/22/2011 9:31	0.10	97
39	9/22/2011 9:32	0.12	120
40	9/22/2011 9:33	0.88	878



41	9/22/2011 9:34	0.93	931
42	9/22/2011 9:35	0.38	376
43	9/22/2011 9:36	0.20	202
44	9/22/2011 9:37	0.37	366
45	9/22/2011 9:38	0.80	795
46	9/22/2011 9:39	0.79	792
47	9/22/2011 9:40	0.40	401
48	9/22/2011 9:41	0.25	253
49	9/22/2011 9:42	0.21	214
50	9/22/2011 9:43	0.20	202
51	9/22/2011 9:44	0.56	560
52	9/22/2011 9:45	0.46	462
53	9/22/2011 9:46	0.20	196
54	9/22/2011 9:47	0.22	221
55	9/22/2011 9:48	0.23	229
56	9/22/2011 9:49	0.91	914
57	9/22/2011 9:50	0.59	591
58	9/22/2011 9:51	0.73	726
59	9/22/2011 9:52	0.91	913
60	9/22/2011 9:53	0.43	429
61	9/22/2011 9:54	0.29	289
62	9/22/2011 9:55	0.27	267
63	9/22/2011 9:56	0.23	229
64	9/22/2011 9:57	0.25	254
65	9/22/2011 9:58	0.45	446
66	9/22/2011 9:59	0.52	515
67	9/22/2011 10:00	0.22	220
68	9/22/2011 10:01	0.29	290
69	9/22/2011 10:02	0.88	875
70	9/22/2011 10:03	0.68	680
71	9/22/2011 10:04	1.02	1017
72	9/22/2011 10:05	0.92	922
73	9/22/2011 10:06	1.23	1229
74	9/22/2011 10:07	0.46	462
75	9/22/2011 10:08	0.31	313
76	9/22/2011 10:09	0.45	454
77	9/22/2011 10:10	0.86	861
78	9/22/2011 10:11	1.61	1607
79	9/22/2011 10:12	1.08	1080
80	9/22/2011 10:13	0.91	914
81	9/22/2011 10:14	0.89	892
82	9/22/2011 10:15	1.23	1227
83	9/22/2011 10:16	1.76	1758
84	9/22/2011 10:17	1.26	1261
85	9/22/2011 10:18	0.51	507
86	9/22/2011 10:19	0.43	431
87	9/22/2011 10:20	1.09	1087
88	9/22/2011 10:21	1.46	1458
89	9/22/2011 10:22	0.73	733
90	9/22/2011 10:23	0.78	781
91	9/22/2011 10:24	1.03	1026
92	9/22/2011 10:25	1.18	1176
93	9/22/2011 10:26	0.74	738
94	9/22/2011 10:27	0.77	771
95	9/22/2011 10:28	0.64	639
96	9/22/2011 10:29	0.63	629
97	9/22/2011 10:30	0.50	495
98	9/22/2011 10:31	0.49	493
99	9/22/2011 10:32	0.69	693
100	9/22/2011 10:33	0.84	842
101	9/22/2011 10:34	1.03	1030
102	9/22/2011 10:35	0.52	517
103	9/22/2011 10:36	0.66	664
104	9/22/2011 10:37	1.02	1017
105	9/22/2011 10:38	1.60	1598
106	9/22/2011 10:39	1.05	1046
107	9/22/2011 10:40	1.97	1969
108	9/22/2011 10:41	1.19	1191
109	9/22/2011 10:42	2.31	2314
110	9/22/2011 10:43	2.95	2947
111	9/22/2011 10:44	1.12	1115
112	9/22/2011 10:45	1.31	1305
113	9/22/2011 10:46	0.62	624
114	9/22/2011 10:47	0.93	925
115	9/22/2011 10:48	0.67	668
116	9/22/2011 10:49	0.67	673
117	9/22/2011 10:50	0.87	873
118	9/22/2011 10:51	0.87	873
119	9/22/2011 10:52	1.87	1865
120	9/22/2011 10:53	2.68	2681
121	9/22/2011 10:54	3.14	3135
122	9/22/2011 10:55	2.44	2436
123	9/22/2011 10:56	2.51	2514
124	9/22/2011 10:57	1.30	1300
125	9/22/2011 10:58	1.21	1213
126	9/22/2011 10:59	1.93	1928
127	9/22/2011 11:00	1.74	1742
128	9/22/2011 11:01	1.56	1563
129	9/22/2011 11:02	1.60	1604
130	9/22/2011 11:03	1.03	1030
131	9/22/2011 11:04	1.12	1123
132	9/22/2011 11:05	1.23	1227
133	9/22/2011 11:06	1.39	1385
134	9/22/2011 11:07	1.84	1835
135	9/22/2011 11:08	1.56	1561
136	9/22/2011 11:09	1.17	1173
137	9/22/2011 11:10	0.98	975
138	9/22/2011 11:11	1.70	1700
139	9/22/2011 11:12	1.14	1140
140	9/22/2011 11:13	1.03	1030
141	9/22/2011 11:14	1.13	1129

142	9/22/2011 11:15	1.62	1624
143	9/22/2011 11:16	1.75	1748
144	9/22/2011 11:17	1.70	1703
145	9/22/2011 11:18	1.58	1579
146	9/22/2011 11:19	1.76	1758
147	9/22/2011 11:20	1.50	1502
148	9/22/2011 11:21	2.39	2394
149	9/22/2011 11:22	1.80	1802
150	9/22/2011 11:23	1.41	1414
151	9/22/2011 11:24	0.94	935
152	9/22/2011 11:25	0.75	748
153	9/22/2011 11:26	0.76	761
154	9/22/2011 11:27	0.96	955
155	9/22/2011 11:28	1.13	1125
156	9/22/2011 11:29	1.33	1331
157	9/22/2011 11:30	0.90	897
158	9/22/2011 11:31	0.60	603
159	9/22/2011 11:32	1.01	1007
160	9/22/2011 11:33	1.64	1642
161	9/22/2011 11:34	1.03	1026
162	9/22/2011 11:35	0.92	923
163	9/22/2011 11:36	0.62	622
164	9/22/2011 11:37	0.56	555
165	9/22/2011 11:38	0.59	592
166	9/22/2011 11:39	0.57	569
167	9/22/2011 11:40	0.56	560
168	9/22/2011 11:41	0.50	497
169	9/22/2011 11:42	0.93	932
170	9/22/2011 11:43	0.75	747
171	9/22/2011 11:44	0.86	860
172	9/22/2011 11:45	1.03	1026
173	9/22/2011 11:46	0.89	885
174	9/22/2011 11:47	0.90	904
175	9/22/2011 11:48	0.68	680
176	9/22/2011 11:49	0.93	934
177	9/22/2011 11:50	1.00	998
178	9/22/2011 11:51	0.96	963
179	9/22/2011 11:52	1.38	1377
180	9/22/2011 11:53	2.43	2433
181	9/22/2011 11:54	1.41	1408
182	9/22/2011 11:55	0.70	700
183	9/22/2011 11:56	0.95	950
184	9/22/2011 11:57	0.68	684
185	9/22/2011 11:58	0.55	549
186	9/22/2011 11:59	0.60	599
187	9/22/2011 12:00	0.85	845
188	9/22/2011 12:01	0.78	782
189	9/22/2011 12:02	0.87	868
190	9/22/2011 12:03	0.80	803
191	9/22/2011 12:04	0.82	822
192	9/22/2011 12:05	0.68	678
193	9/22/2011 12:06	0.69	686
194	9/22/2011 12:07	0.66	656
195	9/22/2011 12:08	1.65	1650
196	9/22/2011 12:09	1.18	1178
197	9/22/2011 12:10	0.96	961
198	9/22/2011 12:11	0.93	931
199	9/22/2011 12:12	0.81	812
200	9/22/2011 12:13	0.67	669
201	9/22/2011 12:14	0.70	701
202	9/22/2011 12:15	0.91	913
203	9/22/2011 12:16	1.10	1095
204	9/22/2011 12:17	0.84	839
205	9/22/2011 12:18	2.32	2320
206	9/22/2011 12:19	0.93	926
207	9/22/2011 12:20	1.12	1116
208	9/22/2011 12:21	0.79	794
209	9/22/2011 12:22	0.74	741
210	9/22/2011 12:23	0.93	930
211	9/22/2011 12:24	1.48	1483
212	9/22/2011 12:25	1.56	1557
213	9/22/2011 12:26	1.18	1175
214	9/22/2011 12:27	0.85	845
215	9/22/2011 12:28	1.34	1338
216	9/22/2011 12:29	1.30	1301
217	9/22/2011 12:30	1.40	1396
218	9/22/2011 12:31	1.58	1584
219	9/22/2011 12:32	2.76	2764
220	9/22/2011 12:33	2.00	1998
221	9/22/2011 12:34	1.23	1229
222	9/22/2011 12:35	1.40	1400
223	9/22/2011 12:36	2.03	2027
224	9/22/2011 12:37	1.89	1885
225	9/22/2011 12:38	1.44	1439
226	9/22/2011 12:39	1.68	1675
227	9/22/2011 12:40	1.68	1676
228	9/22/2011 12:41	2.05	2051
229	9/22/2011 12:42	1.38	1379
230	9/22/2011 12:43	1.36	1359
231	9/22/2011 12:44	1.38	1375
232	9/22/2011 12:45	0.82	820
233	9/22/2011 12:46	2.24	2238
234	9/22/2011 12:47	1.54	1540
235	9/22/2011 12:48	1.59	1593
236	9/22/2011 12:49	1.33	1329
237	9/22/2011 12:50	1.16	1157
238	9/22/2011 12:51	0.99	993
239	9/22/2011 12:52	1.18	1179
240	9/22/2011 12:53	0.95	948
241	9/22/2011 12:54	1.99	1991
242	9/22/2011 12:55	1.92	1923

243	9/22/2011 12:56	2.69	2689
244	9/22/2011 12:57	1.29	1290
245	9/22/2011 12:58	1.02	1020
246	9/22/2011 12:59	1.41	1409
247	9/22/2011 13:00	1.39	1394
248	9/22/2011 13:01	1.71	1708
249	9/22/2011 13:02	1.10	1096
250	9/22/2011 13:03	0.95	946
251	9/22/2011 13:04	1.00	1004
252	9/22/2011 13:05	1.38	1375
253	9/22/2011 13:06	0.74	739
254	9/22/2011 13:07	0.69	692
255	9/22/2011 13:08	0.63	634
256	9/22/2011 13:09	0.70	704
257	9/22/2011 13:10	0.66	663
258	9/22/2011 13:11	1.25	1247
259	9/22/2011 13:12	1.62	1618
260	9/22/2011 13:13	1.82	1816
261	9/22/2011 13:14	1.58	1578
262	9/22/2011 13:15	1.96	1963
263	9/22/2011 13:16	1.98	1981
264	9/22/2011 13:17	1.55	1546
265	9/22/2011 13:18	1.35	1348
266	9/22/2011 13:19	1.26	1259
267	9/22/2011 13:20	0.87	872
268	9/22/2011 13:21	0.86	860
269	9/22/2011 13:22	1.41	1407
270	9/22/2011 13:23	1.05	1053
271	9/22/2011 13:24	1.45	1450
272	9/22/2011 13:25	2.54	2541
273	9/22/2011 13:26	1.00	997
274	9/22/2011 13:27	0.92	917
275	9/22/2011 13:28	1.27	1270
276	9/22/2011 13:29	1.26	1259
277	9/22/2011 13:30	1.39	1389
278	9/22/2011 13:31	1.26	1262
279	9/22/2011 13:32	1.23	1226
280	9/22/2011 13:33	0.97	965
281	9/22/2011 13:34	0.73	730
282	9/22/2011 13:35	0.48	480
283	9/22/2011 13:36	0.61	611
284	9/22/2011 13:37	0.74	742
285	9/22/2011 13:38	1.27	1274
286	9/22/2011 13:39	0.99	988
287	9/22/2011 13:40	0.85	851
288	9/22/2011 13:41	0.71	706
289	9/22/2011 13:42	0.61	607
290	9/22/2011 13:43	0.78	778
291	9/22/2011 13:44	1.29	1291
292	9/22/2011 13:45	1.08	1083
293	9/22/2011 13:46	1.18	1183
294	9/22/2011 13:47	1.09	1086
295	9/22/2011 13:48	0.72	716
296	9/22/2011 13:49	1.16	1156
297	9/22/2011 13:50	0.66	658
298	9/22/2011 13:51	0.55	545
299	9/22/2011 13:52	0.64	636
300	9/22/2011 13:53	0.73	730
301	9/22/2011 13:54	0.55	546
302	9/22/2011 13:55	0.88	883
303	9/22/2011 13:56	0.71	707
304	9/22/2011 13:57	0.79	788
305	9/22/2011 13:58	0.61	605
306	9/22/2011 13:59	0.47	470
307	9/22/2011 14:00	0.43	430
308	9/22/2011 14:01	0.48	477
309	9/22/2011 14:02	0.91	905
310	9/22/2011 14:03	1.76	1759
311	9/22/2011 14:04	1.76	1758
312	9/22/2011 14:05	2.19	2190
313	9/22/2011 14:06	0.95	950
314	9/22/2011 14:07	0.52	515
315	9/22/2011 14:08	0.55	546
316	9/22/2011 14:09	0.65	652
317	9/22/2011 14:10	1.27	1267
318	9/22/2011 14:11	0.99	993
319	9/22/2011 14:12	0.67	673
320	9/22/2011 14:13	0.74	742
321	9/22/2011 14:14	1.26	1259
322	9/22/2011 14:15	1.32	1317
323	9/22/2011 14:16	1.73	1733
324	9/22/2011 14:17	1.51	1511
325	9/22/2011 14:18	1.19	1188
326	9/22/2011 14:19	0.96	962
327	9/22/2011 14:20	0.87	869
328	9/22/2011 14:21	1.36	1357
329	9/22/2011 14:22	1.29	1288
330	9/22/2011 14:23	1.31	1313
331	9/22/2011 14:24	0.93	934
332	9/22/2011 14:25	0.54	541
333	9/22/2011 14:26	0.88	878
334	9/22/2011 14:27	0.86	860
335	9/22/2011 14:28	0.95	954
336	9/22/2011 14:29	1.48	1480
337	9/22/2011 14:30	1.49	1488
338	9/22/2011 14:31	1.27	1273
339	9/22/2011 14:32	0.88	882
340	9/22/2011 14:33	1.09	1091
341	9/22/2011 14:34	0.91	912
342	9/22/2011 14:35	1.05	1050
343	9/22/2011 14:36	1.11	1107

344	9/22/2011 14:37	0.83	831
345	9/22/2011 14:38	0.50	495
346	9/22/2011 14:39	0.92	924
347	9/22/2011 14:40	0.69	693
348	9/22/2011 14:41	1.22	1220
349	9/22/2011 14:42	0.77	773
350	9/22/2011 14:43	0.84	842
351	9/22/2011 14:44	0.49	489
352	9/22/2011 14:45	0.52	518
353	9/22/2011 14:46	0.63	633
354	9/22/2011 14:47	0.75	745
355	9/22/2011 14:48	0.53	534
356	9/22/2011 14:49	0.78	781
357	9/22/2011 14:50	0.53	525
358	9/22/2011 14:51	0.40	398
359	9/22/2011 14:52	0.46	463
360	9/22/2011 14:53	0.35	352
361	9/22/2011 14:54	0.34	342
362	9/22/2011 14:55	0.38	382
363	9/22/2011 14:56	0.54	536
364	9/22/2011 14:57	0.44	441
365	9/22/2011 14:58	0.36	362
366	9/22/2011 14:59	0.39	390
367	9/22/2011 15:00	0.72	718
368	9/22/2011 15:01	0.45	453
369	9/22/2011 15:02	0.59	586
370	9/22/2011 15:03	0.50	503
371	9/22/2011 15:04	0.44	442
372	9/22/2011 15:05	0.68	680
373	9/22/2011 15:06	0.84	844
374	9/22/2011 15:07	0.83	831
375	9/22/2011 15:08	0.95	954
376	9/22/2011 15:09	0.92	920
377	9/22/2011 15:10	0.86	856
378	9/22/2011 15:11	0.93	925
379	9/22/2011 15:12	1.11	1113
380	9/22/2011 15:13	1.03	1025
381	9/22/2011 15:14	0.76	760
382	9/22/2011 15:15	0.48	480
383	9/22/2011 15:16	0.55	549
384	9/22/2011 15:17	0.95	946
385	9/22/2011 15:18	0.73	728
386	9/22/2011 15:19	0.74	736
387	9/22/2011 15:20	0.79	791
388	9/22/2011 15:21	0.73	730
389	9/22/2011 15:22	1.13	1126
390	9/22/2011 15:23	0.75	751
391	9/22/2011 15:24	0.47	472
392	9/22/2011 15:25	0.43	429
393	9/22/2011 15:26	0.77	765
394	9/22/2011 15:27	0.71	707
395	9/22/2011 15:28	0.99	987
396	9/22/2011 15:29	1.30	1304
397	9/22/2011 15:30	1.22	1223
398	9/22/2011 15:31	1.06	1064
399	9/22/2011 15:32	0.84	844
400	9/22/2011 15:33	0.73	729
401	9/22/2011 15:34	0.67	670
402	9/22/2011 15:35	0.72	717
403	9/22/2011 15:36	1.04	1044
404	9/22/2011 15:37	0.64	643
405	9/22/2011 15:38	0.39	387
406	9/22/2011 15:39	0.37	369
407	9/22/2011 15:40	0.36	362
408	9/22/2011 15:41	0.53	531
409	9/22/2011 15:42	0.43	434
410	9/22/2011 15:43	0.37	369
411	9/22/2011 15:44	0.35	346
412	9/22/2011 15:45	0.40	396
413	9/22/2011 15:46	0.37	367
414	9/22/2011 15:47	0.37	373
415	9/22/2011 15:48	0.34	342
416	9/22/2011 15:49	0.34	335
417	9/22/2011 15:50	0.56	560
418	9/22/2011 15:51	0.90	901
419	9/22/2011 15:52	0.95	948
420	9/22/2011 15:53	0.92	924
421	9/22/2011 15:54	1.02	1019
422	9/22/2011 15:55	0.74	740
423	9/22/2011 15:56	1.25	1248
424	9/22/2011 15:57	0.97	972
425	9/22/2011 15:58	1.33	1332
426	9/22/2011 15:59	1.64	1640
427	9/22/2011 16:00	1.20	1202
428	9/22/2011 16:01	1.20	1197
429	9/22/2011 16:02	1.83	1828
430	9/22/2011 16:03	1.14	1136
431	9/22/2011 16:04	1.11	1113
432	9/22/2011 16:05	1.73	1731
433	9/22/2011 16:06	1.42	1424
434	9/22/2011 16:07	1.55	1545
435	9/22/2011 16:08	1.70	1702
436	9/22/2011 16:09	1.33	1330
437	9/22/2011 16:10	0.99	988
438	9/22/2011 16:11	1.16	1155
439	9/22/2011 16:12	1.31	1312
440	9/22/2011 16:13	1.39	1392
441	9/22/2011 16:14	1.52	1524
442	9/22/2011 16:15	1.05	1054
443	9/22/2011 16:16	1.44	1439
444	9/22/2011 16:17	1.30	1301

445	9/22/2011 16:18	0.83	826
446	9/22/2011 16:19	0.89	890
447	9/22/2011 16:20	1.61	1609
448	9/22/2011 16:21	2.00	1997
449	9/22/2011 16:22	2.25	2253
450	9/22/2011 16:23	2.38	2375
451	9/22/2011 16:24	1.93	1930
452	9/22/2011 16:25	1.96	1955
453	9/22/2011 16:26	1.49	1489
454	9/22/2011 16:27	1.06	1061
455	9/22/2011 16:28	0.99	990
456	9/22/2011 16:29	0.90	903
457	9/22/2011 16:30	1.33	1334
458	9/22/2011 16:31	1.45	1445
459	9/22/2011 16:32	1.15	1146
460	9/22/2011 16:33	1.37	1366
461	9/22/2011 16:34	0.86	863
462	9/22/2011 16:35	1.29	1293
463	9/22/2011 16:36	0.80	800
464	9/22/2011 16:37	0.97	971
465	9/22/2011 16:38	0.93	925
466	9/22/2011 16:39	0.93	934
467	9/22/2011 16:40	0.91	914
468	9/22/2011 16:41	1.00	996
469	9/22/2011 16:42	0.63	634
470	9/22/2011 16:43	0.51	511
471	9/22/2011 16:44	0.42	417
472	9/22/2011 16:45	0.39	391
473	9/22/2011 16:46	0.47	471
474	9/22/2011 16:47	0.41	410
475	9/22/2011 16:48	0.48	477
476	9/22/2011 16:49	0.41	413
477	9/22/2011 16:50	0.38	377
478	9/22/2011 16:51	0.36	361
479	9/22/2011 16:52	0.34	344
480	9/22/2011 16:53	0.40	399
481	9/22/2011 16:54	0.63	627
482	9/22/2011 16:55	0.53	528
483	9/22/2011 16:56	0.47	465
484	9/22/2011 16:57	0.62	615
485	9/22/2011 16:58	0.55	553
486	9/22/2011 16:59	0.45	453
487	9/22/2011 17:00	0.56	555
488	9/22/2011 17:01	0.60	599
489	9/22/2011 17:02	0.97	972
490	9/22/2011 17:03	0.92	919
491	9/22/2011 17:04	0.47	465
492	9/22/2011 17:05	0.66	659
493	9/22/2011 17:06	0.49	488
494	9/22/2011 17:07	0.36	361
495	9/22/2011 17:08	0.36	363
496	9/22/2011 17:09	0.37	374
497	9/22/2011 17:10	0.31	312
498	9/22/2011 17:11	0.45	452
499	9/22/2011 17:12	0.42	422
500	9/22/2011 17:13	0.38	375
501	9/22/2011 17:14	0.33	326
502	9/22/2011 17:15	0.30	302
503	9/22/2011 17:16	0.35	349
504	9/22/2011 17:17	0.62	618
505	9/22/2011 17:18	0.57	572
506	9/22/2011 17:19	0.47	468
507	9/22/2011 17:20	0.41	413
508	9/22/2011 17:21	0.42	422
509	9/22/2011 17:22	0.36	362
510	9/22/2011 17:23	0.35	350
511	9/22/2011 17:24	0.35	345
512	9/22/2011 17:25	1.04	1036
513	9/22/2011 17:26	0.43	426
514	9/22/2011 17:27	0.32	324
515	9/22/2011 17:28	0.45	452
516	9/22/2011 17:29	0.48	476
517	9/22/2011 17:30	0.48	475
518	9/22/2011 17:31	1.00	996

==========Event #24 information (end)==========

=========Event #32 information (begin)=========

[Event #32 name:]--[Event #32]2011-09-23 07:35<-->2011-09-23 14:20

[Event start time:]--2011-09-23 07:35:01[Event end time:]--2011-09-23 14:20:01

==========Event #32 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 405 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-23 07:33:00

Drift Value : ---

Low Alarm Levels : 25847

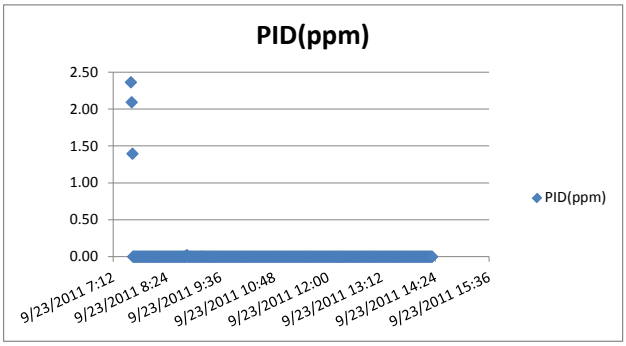
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #32 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/23/2011 7:36	2.36	2362
2	9/23/2011 7:37	2.09	2093
3	9/23/2011 7:38	1.39	1393
4	9/23/2011 7:39	0.00	0
5	9/23/2011 7:40	0.00	0
6	9/23/2011 7:41	0.00	0
7	9/23/2011 7:42	0.00	0
8	9/23/2011 7:43	0.00	0
9	9/23/2011 7:44	0.00	0
10	9/23/2011 7:45	0.00	0
11	9/23/2011 7:46	0.00	0
12	9/23/2011 7:47	0.00	0
13	9/23/2011 7:48	0.00	0
14	9/23/2011 7:49	0.00	0
15	9/23/2011 7:50	0.00	0
16	9/23/2011 7:51	0.00	0
17	9/23/2011 7:52	0.00	0
18	9/23/2011 7:53	0.00	0
19	9/23/2011 7:54	0.00	0
20	9/23/2011 7:55	0.00	0
21	9/23/2011 7:56	0.00	0
22	9/23/2011 7:57	0.00	0
23	9/23/2011 7:58	0.00	0
24	9/23/2011 7:59	0.00	0
25	9/23/2011 8:00	0.00	0
26	9/23/2011 8:01	0.00	0
27	9/23/2011 8:02	0.00	0
28	9/23/2011 8:03	0.00	0
29	9/23/2011 8:04	0.00	0
30	9/23/2011 8:05	0.00	0
31	9/23/2011 8:06	0.00	0
32	9/23/2011 8:07	0.00	0
33	9/23/2011 8:08	0.00	0
34	9/23/2011 8:09	0.00	0
35	9/23/2011 8:10	0.00	0
36	9/23/2011 8:11	0.00	0
37	9/23/2011 8:12	0.00	0
38	9/23/2011 8:13	0.00	0
39	9/23/2011 8:14	0.00	0
40	9/23/2011 8:15	0.00	0
41	9/23/2011 8:16	0.00	0
42	9/23/2011 8:17	0.00	0
43	9/23/2011 8:18	0.00	0
44	9/23/2011 8:19	0.00	0
45	9/23/2011 8:20	0.00	0
46	9/23/2011 8:21	0.00	0
47	9/23/2011 8:22	0.00	0
48	9/23/2011 8:23	0.00	0
49	9/23/2011 8:24	0.00	0
50	9/23/2011 8:25	0.00	0
51	9/23/2011 8:26	0.00	0
52	9/23/2011 8:27	0.00	0
53	9/23/2011 8:28	0.00	0
54	9/23/2011 8:29	0.00	0
55	9/23/2011 8:30	0.00	0
56	9/23/2011 8:31	0.00	0

57	9/23/2011 8:32	0.00	0
58	9/23/2011 8:33	0.00	0
59	9/23/2011 8:34	0.00	0
60	9/23/2011 8:35	0.00	0
61	9/23/2011 8:36	0.00	0
62	9/23/2011 8:37	0.00	0
63	9/23/2011 8:38	0.00	0
64	9/23/2011 8:39	0.00	0
65	9/23/2011 8:40	0.00	0
66	9/23/2011 8:41	0.00	0
67	9/23/2011 8:42	0.00	0
68	9/23/2011 8:43	0.00	0
69	9/23/2011 8:44	0.00	0
70	9/23/2011 8:45	0.00	0
71	9/23/2011 8:46	0.00	0
72	9/23/2011 8:47	0.00	0
73	9/23/2011 8:48	0.00	0
74	9/23/2011 8:49	0.00	0
75	9/23/2011 8:50	0.00	0
76	9/23/2011 8:51	0.02	19
77	9/23/2011 8:52	0.00	0
78	9/23/2011 8:53	0.00	0
79	9/23/2011 8:54	0.00	0
80	9/23/2011 8:55	0.00	0
81	9/23/2011 8:56	0.00	0
82	9/23/2011 8:57	0.00	0
83	9/23/2011 8:58	0.00	0
84	9/23/2011 8:59	0.00	0
85	9/23/2011 9:00	0.00	0
86	9/23/2011 9:01	0.00	0
87	9/23/2011 9:02	0.00	0
88	9/23/2011 9:03	0.00	0
89	9/23/2011 9:04	0.00	0
90	9/23/2011 9:05	0.00	0
91	9/23/2011 9:06	0.00	0
92	9/23/2011 9:07	0.00	0
93	9/23/2011 9:08	0.00	0
94	9/23/2011 9:09	0.00	2
95	9/23/2011 9:10	0.00	0
96	9/23/2011 9:11	0.00	0
97	9/23/2011 9:12	0.00	0
98	9/23/2011 9:13	0.00	0
99	9/23/2011 9:14	0.00	0
100	9/23/2011 9:15	0.00	0
101	9/23/2011 9:16	0.00	0
102	9/23/2011 9:17	0.00	0
103	9/23/2011 9:18	0.00	0
104	9/23/2011 9:19	0.00	0
105	9/23/2011 9:20	0.00	0
106	9/23/2011 9:21	0.00	0
107	9/23/2011 9:22	0.00	0
108	9/23/2011 9:23	0.00	0
109	9/23/2011 9:24	0.00	0
110	9/23/2011 9:25	0.00	0
111	9/23/2011 9:26	0.00	0
112	9/23/2011 9:27	0.00	0
113	9/23/2011 9:28	0.00	0
114	9/23/2011 9:29	0.00	0
115	9/23/2011 9:30	0.00	0
116	9/23/2011 9:31	0.00	0
117	9/23/2011 9:32	0.00	0
118	9/23/2011 9:33	0.00	0
119	9/23/2011 9:34	0.00	0
120	9/23/2011 9:35	0.00	0
121	9/23/2011 9:36	0.00	0
122	9/23/2011 9:37	0.00	0
123	9/23/2011 9:38	0.00	0
124	9/23/2011 9:39	0.00	0
125	9/23/2011 9:40	0.00	0
126	9/23/2011 9:41	0.00	0
127	9/23/2011 9:42	0.00	0
128	9/23/2011 9:43	0.00	0
129	9/23/2011 9:44	0.00	0
130	9/23/2011 9:45	0.00	0
131	9/23/2011 9:46	0.00	0
132	9/23/2011 9:47	0.00	0
133	9/23/2011 9:48	0.00	0

134	9/23/2011 9:49	0.00	0
135	9/23/2011 9:50	0.00	0
136	9/23/2011 9:51	0.00	0
137	9/23/2011 9:52	0.00	0
138	9/23/2011 9:53	0.00	0
139	9/23/2011 9:54	0.00	0
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143	9/23/2011 9:58	0.00	0
144	9/23/2011 9:59	0.00	0
145	9/23/2011 10:00	0.00	0
146	9/23/2011 10:01	0.00	0
147	9/23/2011 10:02	0.00	0
148	9/23/2011 10:03	0.00	0
149	9/23/2011 10:04	0.00	0
150	9/23/2011 10:05	0.00	0
151	9/23/2011 10:06	0.00	0
152	9/23/2011 10:07	0.00	0
153	9/23/2011 10:08	0.00	0
154	9/23/2011 10:09	0.00	0
155	9/23/2011 10:10	0.00	0
156	9/23/2011 10:11	0.00	0
157	9/23/2011 10:12	0.00	0
158	9/23/2011 10:13	0.00	0
159	9/23/2011 10:14	0.00	0
160	9/23/2011 10:15	0.00	0
161	9/23/2011 10:16	0.00	0
162	9/23/2011 10:17	0.00	0
163	9/23/2011 10:18	0.00	0
164	9/23/2011 10:19	0.00	0
165	9/23/2011 10:20	0.00	0
166	9/23/2011 10:21	0.00	0
167	9/23/2011 10:22	0.00	0
168	9/23/2011 10:23	0.00	0
169	9/23/2011 10:24	0.00	0
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175	9/23/2011 10:30	0.00	0
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187	9/23/2011 10:42	0.00	0
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195	9/23/2011 10:50	0.00	0
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200	9/23/2011 10:55	0.00	0
201	9/23/2011 10:56	0.00	0
202	9/23/2011 10:57	0.00	0
203	9/23/2011 10:58	0.00	0
204	9/23/2011 10:59	0.00	0
205	9/23/2011 11:00	0.00	0
206	9/23/2011 11:01	0.00	0
207	9/23/2011 11:02	0.00	0
208	9/23/2011 11:03	0.00	0
209	9/23/2011 11:04	0.00	0
210	9/23/2011 11:05	0.00	0

211	9/23/2011 11:06	0.00	0
212	9/23/2011 11:07	0.00	0
213	9/23/2011 11:08	0.00	0
214	9/23/2011 11:09	0.00	0
215	9/23/2011 11:10	0.00	0
216	9/23/2011 11:11	0.00	0
217	9/23/2011 11:12	0.00	0
218	9/23/2011 11:13	0.00	0
219	9/23/2011 11:14	0.00	0
220	9/23/2011 11:15	0.00	0
221	9/23/2011 11:16	0.00	0
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225	9/23/2011 11:20	0.00	0
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235	9/23/2011 11:30	0.00	0
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247	9/23/2011 11:42	0.00	0
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254	9/23/2011 11:49	0.00	0
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256	9/23/2011 11:51	0.00	0
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258	9/23/2011 11:53	0.00	0
259	9/23/2011 11:54	0.00	0
260	9/23/2011 11:55	0.00	0
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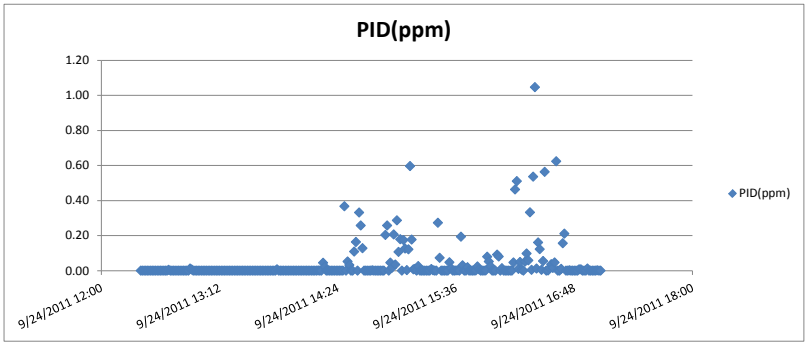
264	9/23/2011 11:59	0.00	0
265	9/23/2011 12:00	0.00	0
266	9/23/2011 12:01	0.00	0
267	9/23/2011 12:02	0.00	0
268	9/23/2011 12:03	0.00	0
269	9/23/2011 12:04	0.00	0
270	9/23/2011 12:05	0.00	0
271	9/23/2011 12:06	0.00	0
272	9/23/2011 12:07	0.00	0
273	9/23/2011 12:08	0.00	0
274	9/23/2011 12:09	0.00	0
275	9/23/2011 12:10	0.00	0
276	9/23/2011 12:11	0.00	0
277	9/23/2011 12:12	0.00	0
278	9/23/2011 12:13	0.00	0
279	9/23/2011 12:14	0.00	0
280	9/23/2011 12:15	0.00	0
281	9/23/2011 12:16	0.00	0
282	9/23/2011 12:17	0.00	0
283	9/23/2011 12:18	0.00	0
284	9/23/2011 12:19	0.00	0
285	9/23/2011 12:20	0.00	0
286	9/23/2011 12:21	0.00	0
287	9/23/2011 12:22	0.00	0

288	9/23/2011 12:23	0.00	0
289	9/23/2011 12:24	0.00	0
290	9/23/2011 12:25	0.00	0
291	9/23/2011 12:26	0.00	0
292	9/23/2011 12:27	0.00	0
293	9/23/2011 12:28	0.00	0
294	9/23/2011 12:29	0.00	0
295	9/23/2011 12:30	0.00	0
296	9/23/2011 12:31	0.00	0
297	9/23/2011 12:32	0.00	0
298	9/23/2011 12:33	0.00	0
299	9/23/2011 12:34	0.00	0
300	9/23/2011 12:35	0.00	0
301	9/23/2011 12:36	0.00	0
302	9/23/2011 12:37	0.00	0
303	9/23/2011 12:38	0.00	0
304	9/23/2011 12:39	0.00	0
305	9/23/2011 12:40	0.00	0
306	9/23/2011 12:41	0.00	0
307	9/23/2011 12:42	0.00	0
308	9/23/2011 12:43	0.00	0
309	9/23/2011 12:44	0.00	0
310	9/23/2011 12:45	0.00	0
311	9/23/2011 12:46	0.00	0
312	9/23/2011 12:47	0.00	0
313	9/23/2011 12:48	0.00	0
314	9/23/2011 12:49	0.00	0
315	9/23/2011 12:50	0.00	0
316	9/23/2011 12:51	0.00	0
317	9/23/2011 12:52	0.00	0
318	9/23/2011 12:53	0.00	0
319	9/23/2011 12:54	0.00	0
320	9/23/2011 12:55	0.00	0
321	9/23/2011 12:56	0.00	0
322	9/23/2011 12:57	0.00	0
323	9/23/2011 12:58	0.00	0
324	9/23/2011 12:59	0.00	0
325	9/23/2011 13:00	0.00	0
326	9/23/2011 13:01	0.00	0
327	9/23/2011 13:02	0.00	0
328	9/23/2011 13:03	0.00	0
329	9/23/2011 13:04	0.00	0
330	9/23/2011 13:05	0.00	0
331	9/23/2011 13:06	0.00	0
332	9/23/2011 13:07	0.00	0
333	9/23/2011 13:08	0.00	0
334	9/23/2011 13:09	0.00	0
335	9/23/2011 13:10	0.00	0
336	9/23/2011 13:11	0.00	0
337	9/23/2011 13:12	0.00	0
338	9/23/2011 13:13	0.00	0
339	9/23/2011 13:14	0.00	0
340	9/23/2011 13:15	0.00	0
341	9/23/2011 13:16	0.00	0
342	9/23/2011 13:17	0.00	0
343	9/23/2011 13:18	0.00	0
344	9/23/2011 13:19	0.00	0
345	9/23/2011 13:20	0.00	0
346	9/23/2011 13:21	0.00	0
347	9/23/2011 13:22	0.00	0
348	9/23/2011 13:23	0.00	0
349	9/23/2011 13:24	0.00	0
350	9/23/2011 13:25	0.00	0
351	9/23/2011 13:26	0.00	0
352	9/23/2011 13:27	0.00	0
353	9/23/2011 13:28	0.00	0
354	9/23/2011 13:29	0.00	0
355	9/23/2011 13:30	0.00	0
356	9/23/2011 13:31	0.00	0
357	9/23/2011 13:32	0.00	0
358	9/23/2011 13:33	0.00	0
359	9/23/2011 13:34	0.00	0
360	9/23/2011 13:35	0.00	0
361	9/23/2011 13:36	0.00	0
362	9/23/2011 13:37	0.00	0
363	9/23/2011 13:38	0.00	0
364	9/23/2011 13:39	0.00	0

365	9/23/2011 13:40	0.00	0
366	9/23/2011 13:41	0.00	0
367	9/23/2011 13:42	0.00	0
368	9/23/2011 13:43	0.00	0
369	9/23/2011 13:44	0.00	0
370	9/23/2011 13:45	0.00	0
371	9/23/2011 13:46	0.00	0
372	9/23/2011 13:47	0.00	0
373	9/23/2011 13:48	0.00	0
374	9/23/2011 13:49	0.00	0
375	9/23/2011 13:50	0.00	0
376	9/23/2011 13:51	0.00	0
377	9/23/2011 13:52	0.00	0
378	9/23/2011 13:53	0.00	0
379	9/23/2011 13:54	0.00	0
380	9/23/2011 13:55	0.00	0
381	9/23/2011 13:56	0.00	0
382	9/23/2011 13:57	0.00	0
383	9/23/2011 13:58	0.00	0
384	9/23/2011 13:59	0.00	0
385	9/23/2011 14:00	0.00	0
386	9/23/2011 14:01	0.00	0
387	9/23/2011 14:02	0.00	0
388	9/23/2011 14:03	0.00	0
389	9/23/2011 14:04	0.00	0
390	9/23/2011 14:05	0.00	0
391	9/23/2011 14:06	0.00	0
392	9/23/2011 14:07	0.00	0
393	9/23/2011 14:08	0.00	0
394	9/23/2011 14:09	0.00	0
395	9/23/2011 14:10	0.00	0
396	9/23/2011 14:11	0.00	0
397	9/23/2011 14:12	0.00	0
398	9/23/2011 14:13	0.00	0
399	9/23/2011 14:14	0.00	0
400	9/23/2011 14:15	0.00	0
401	9/23/2011 14:16	0.00	0
402	9/23/2011 14:17	0.00	0
403	9/23/2011 14:18	0.00	0
404	9/23/2011 14:19	0.00	0
405	9/23/2011 14:20	0.00	0

==========Event #32 information (end)==========

=========Event #33 information (begin)=========
==========
[Event #33 name:]--[Event #33]2011-09-24 12:23<-->2011-09-24 17:04
[Event start time:]--2011-09-24 12:23:44[Event end time:]--2011-09-24 17:04:44
==========Event #33 head information==========
Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367
Data Points: 281 Sample Period: 60 s Datalog Mode: Automatic
SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode
==========
Sensor Information : PID(ppb)
Measurement Gas : Isobutene
Calibration Time : 2011-09-23 07:33:00
Drift Value : ---
Low Alarm Levels : 25847
High Alarm Levels : 51694
Span Value : 100000
Correction Factor : 1.00
Over Alarm Levels : 15000000
==========Event #33 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/24/2011 12:24	0.00	0
2	9/24/2011 12:25	0.00	0
3	9/24/2011 12:26	0.00	0
4	9/24/2011 12:27	0.00	0
5	9/24/2011 12:28	0.00	0
6	9/24/2011 12:29	0.00	0
7	9/24/2011 12:30	0.00	0
8	9/24/2011 12:31	0.00	0
9	9/24/2011 12:32	0.00	0
10	9/24/2011 12:33	0.00	0
11	9/24/2011 12:34	0.00	0
12	9/24/2011 12:35	0.00	0
13	9/24/2011 12:36	0.00	0
14	9/24/2011 12:37	0.00	0
15	9/24/2011 12:38	0.00	0
16	9/24/2011 12:39	0.00	0
17	9/24/2011 12:40	0.00	0
18	9/24/2011 12:41	0.01	5
19	9/24/2011 12:42	0.00	0
20	9/24/2011 12:43	0.00	0
21	9/24/2011 12:44	0.00	0
22	9/24/2011 12:45	0.00	0
23	9/24/2011 12:46	0.00	0
24	9/24/2011 12:47	0.00	0
25	9/24/2011 12:48	0.00	0
26	9/24/2011 12:49	0.00	0
27	9/24/2011 12:50	0.00	0
28	9/24/2011 12:51	0.00	0
29	9/24/2011 12:52	0.00	0
30	9/24/2011 12:53	0.00	0
31	9/24/2011 12:54	0.01	12
32	9/24/2011 12:55	0.01	7
33	9/24/2011 12:56	0.00	0
34	9/24/2011 12:57	0.00	0
35	9/24/2011 12:58	0.00	0
36	9/24/2011 12:59	0.00	0
37	9/24/2011 13:00	0.00	0
38	9/24/2011 13:01	0.00	0
39	9/24/2011 13:02	0.00	0
40	9/24/2011 13:03	0.00	0
41	9/24/2011 13:04	0.00	0
42	9/24/2011 13:05	0.00	0
43	9/24/2011 13:06	0.00	0
44	9/24/2011 13:07	0.00	0
45	9/24/2011 13:08	0.00	0
46	9/24/2011 13:09	0.00	0
47	9/24/2011 13:10	0.00	0
48	9/24/2011 13:11	0.00	0
49	9/24/2011 13:12	0.00	0
50	9/24/2011 13:13	0.00	0
51	9/24/2011 13:14	0.00	0
52	9/24/2011 13:15	0.00	0
53	9/24/2011 13:16	0.00	0
54	9/24/2011 13:17	0.00	0
55	9/24/2011 13:18	0.00	0
56	9/24/2011 13:19	0.00	0
57	9/24/2011 13:20	0.00	0
58	9/24/2011 13:21	0.00	0
59	9/24/2011 13:22	0.00	0
60	9/24/2011 13:23	0.00	0
61	9/24/2011 13:24	0.00	0
62	9/24/2011 13:25	0.00	0
63	9/24/2011 13:26	0.00	0
64	9/24/2011 13:27	0.00	0
65	9/24/2011 13:28	0.00	0
66	9/24/2011 13:29	0.00	0
67	9/24/2011 13:30	0.00	0
68	9/24/2011 13:31	0.00	0
69	9/24/2011 13:32	0.00	0
70	9/24/2011 13:33	0.00	0
71	9/24/2011 13:34	0.00	0
72	9/24/2011 13:35	0.00	0

73	9/24/2011 13:36	0.00	0
74	9/24/2011 13:37	0.00	0
75	9/24/2011 13:38	0.00	0
76	9/24/2011 13:39	0.00	0
77	9/24/2011 13:40	0.00	0
78	9/24/2011 13:41	0.00	0
79	9/24/2011 13:42	0.00	0
80	9/24/2011 13:43	0.00	0
81	9/24/2011 13:44	0.00	0
82	9/24/2011 13:45	0.00	0
83	9/24/2011 13:46	0.00	0
84	9/24/2011 13:47	0.01	8
85	9/24/2011 13:48	0.00	0
86	9/24/2011 13:49	0.00	0
87	9/24/2011 13:50	0.00	0
88	9/24/2011 13:51	0.00	0
89	9/24/2011 13:52	0.00	0
90	9/24/2011 13:53	0.00	0
91	9/24/2011 13:54	0.00	0
92	9/24/2011 13:55	0.00	0
93	9/24/2011 13:56	0.00	0
94	9/24/2011 13:57	0.00	0
95	9/24/2011 13:58	0.00	0
96	9/24/2011 13:59	0.00	0
97	9/24/2011 14:00	0.00	0
98	9/24/2011 14:01	0.00	0
99	9/24/2011 14:02	0.00	0
100	9/24/2011 14:03	0.00	0
101	9/24/2011 14:04	0.00	0
102	9/24/2011 14:05	0.00	0
103	9/24/2011 14:06	0.00	0
104	9/24/2011 14:07	0.00	0
105	9/24/2011 14:08	0.00	0
106	9/24/2011 14:09	0.00	0
107	9/24/2011 14:10	0.00	0
108	9/24/2011 14:11	0.00	0
109	9/24/2011 14:12	0.00	1
110	9/24/2011 14:13	0.00	0
111	9/24/2011 14:14	0.00	0
112	9/24/2011 14:15	0.05	45
113	9/24/2011 14:16	0.02	22
114	9/24/2011 14:17	0.00	0
115	9/24/2011 14:18	0.00	0
116	9/24/2011 14:19	0.00	0
117	9/24/2011 14:20	0.00	0
118	9/24/2011 14:21	0.00	0
119	9/24/2011 14:22	0.00	0
120	9/24/2011 14:23	0.00	0
121	9/24/2011 14:24	0.00	0
122	9/24/2011 14:25	0.00	0
123	9/24/2011 14:26	0.00	0
124	9/24/2011 14:27	0.00	0
125	9/24/2011 14:28	0.37	367
126	9/24/2011 14:29	0.00	0
127	9/24/2011 14:30	0.05	52
128	9/24/2011 14:31	0.03	32
129	9/24/2011 14:32	0.00	0
130	9/24/2011 14:33	0.00	0
131	9/24/2011 14:34	0.11	109
132	9/24/2011 14:35	0.16	164
133	9/24/2011 14:36	0.00	0
134	9/24/2011 14:37	0.33	332
135	9/24/2011 14:38	0.26	258
136	9/24/2011 14:39	0.13	128
137	9/24/2011 14:40	0.00	0
138	9/24/2011 14:41	0.00	0
139	9/24/2011 14:42	0.00	0
140	9/24/2011 14:43	0.00	0
141	9/24/2011 14:44	0.00	0
142	9/24/2011 14:45	0.00	2
143	9/24/2011 14:46	0.00	0
144	9/24/2011 14:47	0.00	0
145	9/24/2011 14:48	0.00	0
146	9/24/2011 14:49	0.00	0
147	9/24/2011 14:50	0.00	0
148	9/24/2011 14:51	0.00	0
149	9/24/2011 14:52	0.00	0
150	9/24/2011 14:53	0.20	204
151	9/24/2011 14:54	0.26	258
152	9/24/2011 14:55	0.00	0
153	9/24/2011 14:56	0.05	46
154	9/24/2011 14:57	0.02	17
155	9/24/2011 14:58	0.21	207
156	9/24/2011 14:59	0.04	35
157	9/24/2011 15:00	0.29	287
158	9/24/2011 15:01	0.11	107
159	9/24/2011 15:02	0.18	179
160	9/24/2011 15:03	0.00	0
161	9/24/2011 15:04	0.18	175
162	9/24/2011 15:05	0.13	126
163	9/24/2011 15:06	0.00	3
164	9/24/2011 15:07	0.12	122
165	9/24/2011 15:08	0.60	597

166	9/24/2011 15:09	0.18	177
167	9/24/2011 15:10	0.01	8
168	9/24/2011 15:11	0.01	10
169	9/24/2011 15:12	0.00	0
170	9/24/2011 15:13	0.03	26
171	9/24/2011 15:14	0.00	0
172	9/24/2011 15:15	0.00	0
173	9/24/2011 15:16	0.00	0
174	9/24/2011 15:17	0.00	0
175	9/24/2011 15:18	0.00	0
176	9/24/2011 15:19	0.00	0
177	9/24/2011 15:20	0.00	0
178	9/24/2011 15:21	0.01	9
179	9/24/2011 15:22	0.00	2
180	9/24/2011 15:23	0.00	0
181	9/24/2011 15:24	0.00	0
182	9/24/2011 15:25	0.27	273
183	9/24/2011 15:26	0.07	73
184	9/24/2011 15:27	0.00	0
185	9/24/2011 15:28	0.00	0
186	9/24/2011 15:29	0.00	0
187	9/24/2011 15:30	0.00	0
188	9/24/2011 15:31	0.00	0
189	9/24/2011 15:32	0.05	48
190	9/24/2011 15:33	0.01	13
191	9/24/2011 15:34	0.00	0
192	9/24/2011 15:35	0.00	0
193	9/24/2011 15:36	0.00	1
194	9/24/2011 15:37	0.00	2
195	9/24/2011 15:38	0.00	0
196	9/24/2011 15:39	0.19	194
197	9/24/2011 15:40	0.03	30
198	9/24/2011 15:41	0.00	0
199	9/24/2011 15:42	0.00	0
200	9/24/2011 15:43	0.02	19
201	9/24/2011 15:44	0.00	0
202	9/24/2011 15:45	0.00	0
203	9/24/2011 15:46	0.00	0
204	9/24/2011 15:47	0.00	0
205	9/24/2011 15:48	0.00	1
206	9/24/2011 15:49	0.02	24
207	9/24/2011 15:50	0.01	8
208	9/24/2011 15:51	0.00	0
209	9/24/2011 15:52	0.00	0
210	9/24/2011 15:53	0.00	0
211	9/24/2011 15:54	0.00	1
212	9/24/2011 15:55	0.08	80
213	9/24/2011 15:56	0.05	52
214	9/24/2011 15:57	0.03	26
215	9/24/2011 15:58	0.00	0
216	9/24/2011 15:59	0.00	0
217	9/24/2011 16:00	0.00	0
218	9/24/2011 16:01	0.09	92
219	9/24/2011 16:02	0.08	81
220	9/24/2011 16:03	0.00	0
221	9/24/2011 16:04	0.01	14
222	9/24/2011 16:05	0.00	0
223	9/24/2011 16:06	0.00	0
224	9/24/2011 16:07	0.00	0
225	9/24/2011 16:08	0.00	0
226	9/24/2011 16:09	0.00	0
227	9/24/2011 16:10	0.00	0
228	9/24/2011 16:11	0.05	47
229	9/24/2011 16:12	0.46	463
230	9/24/2011 16:13	0.51	511
231	9/24/2011 16:14	0.01	10
232	9/24/2011 16:15	0.05	50
233	9/24/2011 16:16	0.01	6
234	9/24/2011 16:17	0.00	0
235	9/24/2011 16:18	0.05	51
236	9/24/2011 16:19	0.10	98
237	9/24/2011 16:20	0.06	59
238	9/24/2011 16:21	0.33	333
239	9/24/2011 16:22	0.01	5
240	9/24/2011 16:23	0.54	536
241	9/24/2011 16:24	1.05	1047
242	9/24/2011 16:25	0.01	12
243	9/24/2011 16:26	0.16	161
244	9/24/2011 16:27	0.12	123
245	9/24/2011 16:28	0.01	5
246	9/24/2011 16:29	0.06	55
247	9/24/2011 16:30	0.56	564
248	9/24/2011 16:31	0.00	0
249	9/24/2011 16:32	0.00	1
250	9/24/2011 16:33	0.02	15
251	9/24/2011 16:34	0.04	37
252	9/24/2011 16:35	0.02	16
253	9/24/2011 16:36	0.05	47
254	9/24/2011 16:37	0.62	624
255	9/24/2011 16:38	0.00	0
256	9/24/2011 16:39	0.00	0
257	9/24/2011 16:40	0.01	10
258	9/24/2011 16:41	0.16	156

259	9/24/2011 16:42	0.21	211
260	9/24/2011 16:43	0.00	0
261	9/24/2011 16:44	0.00	0
262	9/24/2011 16:45	0.00	2
263	9/24/2011 16:46	0.00	0
264	9/24/2011 16:47	0.00	0
265	9/24/2011 16:48	0.00	0
266	9/24/2011 16:49	0.00	0
267	9/24/2011 16:50	0.00	0
268	9/24/2011 16:51	0.01	8
269	9/24/2011 16:52	0.01	8
270	9/24/2011 16:53	0.00	0
271	9/24/2011 16:54	0.00	0
272	9/24/2011 16:55	0.00	0
273	9/24/2011 16:56	0.01	12
274	9/24/2011 16:57	0.00	0
275	9/24/2011 16:58	0.00	0
276	9/24/2011 16:59	0.00	0
277	9/24/2011 17:00	0.00	0
278	9/24/2011 17:01	0.00	0
279	9/24/2011 17:02	0.00	2
280	9/24/2011 17:03	0.00	0
281	9/24/2011 17:04	0.00	0

==========Event #33 information (end)==========

=========Event #37 information (begin)=========

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[Event #37 name:]--[Event #37]2011-09-25 07:15<-->2011-09-25 18:57

[Event start time:]--2011-09-25 07:15:55[Event end time:]--2011-09-25 18:57:55

==========Event #37 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 702 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-25 07:14:00

Drift Value : ---

Low Alarm Levels : 25847

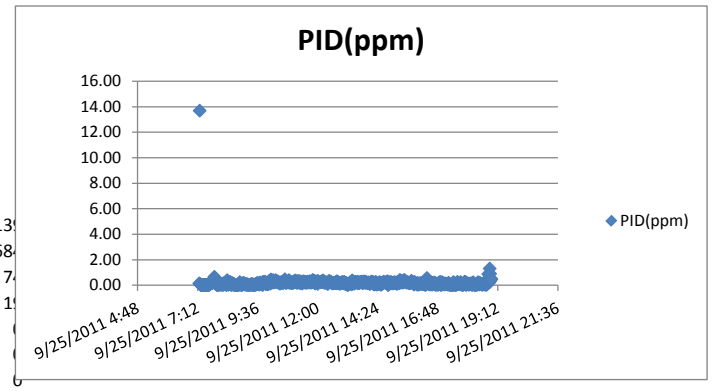
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #37 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/25/2011 7:16	0.14	13
2	9/25/2011 7:17	13.68	1368
3	9/25/2011 7:18	0.07	7
4	9/25/2011 7:19	0.02	1
5	9/25/2011 7:20	0.00	0
6	9/25/2011 7:21	0.00	0
7	9/25/2011 7:22	0.00	0
8	9/25/2011 7:23	0.00	0
9	9/25/2011 7:24	0.00	0
10	9/25/2011 7:25	0.00	0
11	9/25/2011 7:26	0.00	0
12	9/25/2011 7:27	0.00	0
13	9/25/2011 7:28	0.00	0
14	9/25/2011 7:29	0.00	0
15	9/25/2011 7:30	0.00	0
16	9/25/2011 7:31	0.00	0
17	9/25/2011 7:32	0.00	0
18	9/25/2011 7:33	0.00	0
19	9/25/2011 7:34	0.00	0
20	9/25/2011 7:35	0.00	0
21	9/25/2011 7:36	0.00	0
22	9/25/2011 7:37	0.00	0
23	9/25/2011 7:38	0.00	0
24	9/25/2011 7:39	0.02	18
25	9/25/2011 7:40	0.06	57
26	9/25/2011 7:41	0.03	32
27	9/25/2011 7:42	0.13	126
28	9/25/2011 7:43	0.20	204
29	9/25/2011 7:44	0.23	225
30	9/25/2011 7:45	0.22	221
31	9/25/2011 7:46	0.14	140
32	9/25/2011 7:47	0.19	193
33	9/25/2011 7:48	0.17	171
34	9/25/2011 7:49	0.42	424
35	9/25/2011 7:50	0.34	344
36	9/25/2011 7:51	0.49	487
37	9/25/2011 7:52	0.64	637
38	9/25/2011 7:53	0.60	599
39	9/25/2011 7:54	0.48	481
40	9/25/2011 7:55	0.19	190
41	9/25/2011 7:56	0.15	148
42	9/25/2011 7:57	0.03	33
43	9/25/2011 7:58	0.01	9
44	9/25/2011 7:59	0.00	0
45	9/25/2011 8:00	0.00	0
46	9/25/2011 8:01	0.03	34
47	9/25/2011 8:02	0.03	25
48	9/25/2011 8:03	0.05	46
49	9/25/2011 8:04	0.01	9

50	9/25/2011 8:05	0.04	40
51	9/25/2011 8:06	0.08	76
52	9/25/2011 8:07	0.08	81
53	9/25/2011 8:08	0.01	12
54	9/25/2011 8:09	0.06	61
55	9/25/2011 8:10	0.02	20
56	9/25/2011 8:11	0.06	55
57	9/25/2011 8:12	0.11	113
58	9/25/2011 8:13	0.00	0
59	9/25/2011 8:14	0.10	98
60	9/25/2011 8:15	0.09	90
61	9/25/2011 8:16	0.17	171
62	9/25/2011 8:17	0.10	98
63	9/25/2011 8:18	0.09	90
64	9/25/2011 8:19	0.17	169
65	9/25/2011 8:20	0.02	17
66	9/25/2011 8:21	0.00	0
67	9/25/2011 8:22	0.06	58
68	9/25/2011 8:23	0.38	378
69	9/25/2011 8:24	0.21	206
70	9/25/2011 8:25	0.05	46
71	9/25/2011 8:26	0.02	15
72	9/25/2011 8:27	0.08	78
73	9/25/2011 8:28	0.12	119
74	9/25/2011 8:29	0.06	59
75	9/25/2011 8:30	0.24	244
76	9/25/2011 8:31	0.15	145
77	9/25/2011 8:32	0.03	33
78	9/25/2011 8:33	0.00	4
79	9/25/2011 8:34	0.14	142
80	9/25/2011 8:35	0.15	146
81	9/25/2011 8:36	0.10	95
82	9/25/2011 8:37	0.01	11
83	9/25/2011 8:38	0.09	86
84	9/25/2011 8:39	0.10	99
85	9/25/2011 8:40	0.02	17
86	9/25/2011 8:41	0.02	17
87	9/25/2011 8:42	0.02	15
88	9/25/2011 8:43	0.00	1
89	9/25/2011 8:44	0.01	10
90	9/25/2011 8:45	0.00	0
91	9/25/2011 8:46	0.01	6
92	9/25/2011 8:47	0.02	17
93	9/25/2011 8:48	0.00	0
94	9/25/2011 8:49	0.00	1
95	9/25/2011 8:50	0.00	1
96	9/25/2011 8:51	0.02	21
97	9/25/2011 8:52	0.14	142
98	9/25/2011 8:53	0.23	229
99	9/25/2011 8:54	0.08	83
100	9/25/2011 8:55	0.03	26
101	9/25/2011 8:56	0.02	22
102	9/25/2011 8:57	0.02	16
103	9/25/2011 8:58	0.09	90
104	9/25/2011 8:59	0.00	0
105	9/25/2011 9:00	0.11	112
106	9/25/2011 9:01	0.10	102
107	9/25/2011 9:02	0.18	184
108	9/25/2011 9:03	0.14	138
109	9/25/2011 9:04	0.10	100
110	9/25/2011 9:05	0.03	25
111	9/25/2011 9:06	0.05	50
112	9/25/2011 9:07	0.05	49
113	9/25/2011 9:08	0.07	73
114	9/25/2011 9:09	0.04	40
115	9/25/2011 9:10	0.00	1
116	9/25/2011 9:11	0.06	61
117	9/25/2011 9:12	0.01	9
118	9/25/2011 9:13	0.03	26
119	9/25/2011 9:14	0.01	7

120	9/25/2011 9:15	0.01	7
121	9/25/2011 9:16	0.01	9
122	9/25/2011 9:17	0.01	11
123	9/25/2011 9:18	0.01	11
124	9/25/2011 9:19	0.04	36
125	9/25/2011 9:20	0.04	40
126	9/25/2011 9:21	0.07	73
127	9/25/2011 9:22	0.02	16
128	9/25/2011 9:23	0.02	22
129	9/25/2011 9:24	0.08	76
130	9/25/2011 9:25	0.00	0
131	9/25/2011 9:26	0.01	10
132	9/25/2011 9:27	0.00	0
133	9/25/2011 9:28	0.03	26
134	9/25/2011 9:29	0.02	18
135	9/25/2011 9:30	0.02	21
136	9/25/2011 9:31	0.03	28
137	9/25/2011 9:32	0.10	103
138	9/25/2011 9:33	0.05	52
139	9/25/2011 9:34	0.06	62
140	9/25/2011 9:35	0.16	158
141	9/25/2011 9:36	0.07	70
142	9/25/2011 9:37	0.13	126
143	9/25/2011 9:38	0.12	122
144	9/25/2011 9:39	0.12	124
145	9/25/2011 9:40	0.04	39
146	9/25/2011 9:41	0.10	102
147	9/25/2011 9:42	0.21	205
148	9/25/2011 9:43	0.08	79
149	9/25/2011 9:44	0.07	67
150	9/25/2011 9:45	0.10	95
151	9/25/2011 9:46	0.12	122
152	9/25/2011 9:47	0.02	16
153	9/25/2011 9:48	0.02	21
154	9/25/2011 9:49	0.24	244
155	9/25/2011 9:50	0.24	238
156	9/25/2011 9:51	0.13	130
157	9/25/2011 9:52	0.15	147
158	9/25/2011 9:53	0.22	215
159	9/25/2011 9:54	0.26	262
160	9/25/2011 9:55	0.14	142
161	9/25/2011 9:56	0.06	61
162	9/25/2011 9:57	0.16	156
163	9/25/2011 9:58	0.09	85
164	9/25/2011 9:59	0.07	73
165	9/25/2011 10:00	0.06	55
166	9/25/2011 10:01	0.10	99
167	9/25/2011 10:02	0.22	220
168	9/25/2011 10:03	0.26	262
169	9/25/2011 10:04	0.34	336
170	9/25/2011 10:05	0.20	204
171	9/25/2011 10:06	0.10	101
172	9/25/2011 10:07	0.22	216
173	9/25/2011 10:08	0.43	431
174	9/25/2011 10:09	0.18	181
175	9/25/2011 10:10	0.32	319
176	9/25/2011 10:11	0.23	226
177	9/25/2011 10:12	0.20	204
178	9/25/2011 10:13	0.38	380
179	9/25/2011 10:14	0.19	194
180	9/25/2011 10:15	0.22	221
181	9/25/2011 10:16	0.26	259
182	9/25/2011 10:17	0.22	217
183	9/25/2011 10:18	0.29	288
184	9/25/2011 10:19	0.39	385
185	9/25/2011 10:20	0.25	249
186	9/25/2011 10:21	0.31	314
187	9/25/2011 10:22	0.25	254
188	9/25/2011 10:23	0.20	199
189	9/25/2011 10:24	0.28	279

190	9/25/2011 10:25	0.27	265
191	9/25/2011 10:26	0.22	218
192	9/25/2011 10:27	0.21	213
193	9/25/2011 10:28	0.16	158
194	9/25/2011 10:29	0.12	120
195	9/25/2011 10:30	0.11	110
196	9/25/2011 10:31	0.14	143
197	9/25/2011 10:32	0.18	183
198	9/25/2011 10:33	0.24	244
199	9/25/2011 10:34	0.17	174
200	9/25/2011 10:35	0.24	241
201	9/25/2011 10:36	0.17	171
202	9/25/2011 10:37	0.15	149
203	9/25/2011 10:38	0.25	250
204	9/25/2011 10:39	0.23	229
205	9/25/2011 10:40	0.29	294
206	9/25/2011 10:41	0.45	451
207	9/25/2011 10:42	0.32	324
208	9/25/2011 10:43	0.26	261
209	9/25/2011 10:44	0.15	154
210	9/25/2011 10:45	0.23	227
211	9/25/2011 10:46	0.24	242
212	9/25/2011 10:47	0.20	198
213	9/25/2011 10:48	0.25	248
214	9/25/2011 10:49	0.22	223
215	9/25/2011 10:50	0.24	243
216	9/25/2011 10:51	0.39	391
217	9/25/2011 10:52	0.17	171
218	9/25/2011 10:53	0.22	215
219	9/25/2011 10:54	0.27	268
220	9/25/2011 10:55	0.20	198
221	9/25/2011 10:56	0.21	213
222	9/25/2011 10:57	0.15	150
223	9/25/2011 10:58	0.15	146
224	9/25/2011 10:59	0.19	194
225	9/25/2011 11:00	0.23	232
226	9/25/2011 11:01	0.18	180
227	9/25/2011 11:02	0.18	179
228	9/25/2011 11:03	0.21	210
229	9/25/2011 11:04	0.22	219
230	9/25/2011 11:05	0.35	345
231	9/25/2011 11:06	0.22	224
232	9/25/2011 11:07	0.35	347
233	9/25/2011 11:08	0.24	242
234	9/25/2011 11:09	0.24	236
235	9/25/2011 11:10	0.16	161
236	9/25/2011 11:11	0.20	197
237	9/25/2011 11:12	0.32	323
238	9/25/2011 11:13	0.20	196
239	9/25/2011 11:14	0.30	297
240	9/25/2011 11:15	0.22	219
241	9/25/2011 11:16	0.16	161
242	9/25/2011 11:17	0.31	306
243	9/25/2011 11:18	0.18	175
244	9/25/2011 11:19	0.28	283
245	9/25/2011 11:20	0.15	153
246	9/25/2011 11:21	0.20	204
247	9/25/2011 11:22	0.16	157
248	9/25/2011 11:23	0.12	116
249	9/25/2011 11:24	0.21	205
250	9/25/2011 11:25	0.28	279
251	9/25/2011 11:26	0.28	282
252	9/25/2011 11:27	0.20	201
253	9/25/2011 11:28	0.26	258
254	9/25/2011 11:29	0.22	219
255	9/25/2011 11:30	0.19	187
256	9/25/2011 11:31	0.25	248
257	9/25/2011 11:32	0.19	189
258	9/25/2011 11:33	0.21	208
259	9/25/2011 11:34	0.20	198

260	9/25/2011 11:35	0.19	194
261	9/25/2011 11:36	0.20	201
262	9/25/2011 11:37	0.26	263
263	9/25/2011 11:38	0.22	223
264	9/25/2011 11:39	0.25	254
265	9/25/2011 11:40	0.20	200
266	9/25/2011 11:41	0.30	302
267	9/25/2011 11:42	0.23	225
268	9/25/2011 11:43	0.18	184
269	9/25/2011 11:44	0.23	231
270	9/25/2011 11:45	0.20	195
271	9/25/2011 11:46	0.24	244
272	9/25/2011 11:47	0.27	272
273	9/25/2011 11:48	0.41	406
274	9/25/2011 11:49	0.22	215
275	9/25/2011 11:50	0.31	308
276	9/25/2011 11:51	0.25	248
277	9/25/2011 11:52	0.21	210
278	9/25/2011 11:53	0.34	338
279	9/25/2011 11:54	0.12	119
280	9/25/2011 11:55	0.25	245
281	9/25/2011 11:56	0.22	219
282	9/25/2011 11:57	0.20	197
283	9/25/2011 11:58	0.15	151
284	9/25/2011 11:59	0.24	241
285	9/25/2011 12:00	0.33	329
286	9/25/2011 12:01	0.17	174
287	9/25/2011 12:02	0.18	178
288	9/25/2011 12:03	0.20	196
289	9/25/2011 12:04	0.20	202
290	9/25/2011 12:05	0.21	210
291	9/25/2011 12:06	0.21	208
292	9/25/2011 12:07	0.23	234
293	9/25/2011 12:08	0.26	259
294	9/25/2011 12:09	0.29	287
295	9/25/2011 12:10	0.21	214
296	9/25/2011 12:11	0.27	273
297	9/25/2011 12:12	0.28	280
298	9/25/2011 12:13	0.36	362
299	9/25/2011 12:14	0.25	247
300	9/25/2011 12:15	0.24	237
301	9/25/2011 12:16	0.16	159
302	9/25/2011 12:17	0.23	225
303	9/25/2011 12:18	0.20	202
304	9/25/2011 12:19	0.19	194
305	9/25/2011 12:20	0.21	211
306	9/25/2011 12:21	0.18	182
307	9/25/2011 12:22	0.13	131
308	9/25/2011 12:23	0.13	131
309	9/25/2011 12:24	0.09	89
310	9/25/2011 12:25	0.23	229
311	9/25/2011 12:26	0.23	225
312	9/25/2011 12:27	0.18	179
313	9/25/2011 12:28	0.33	329
314	9/25/2011 12:29	0.24	239
315	9/25/2011 12:30	0.21	214
316	9/25/2011 12:31	0.26	261
317	9/25/2011 12:32	0.23	226
318	9/25/2011 12:33	0.20	198
319	9/25/2011 12:34	0.16	155
320	9/25/2011 12:35	0.13	131
321	9/25/2011 12:36	0.15	145
322	9/25/2011 12:37	0.13	133
323	9/25/2011 12:38	0.14	136
324	9/25/2011 12:39	0.18	184
325	9/25/2011 12:40	0.16	157
326	9/25/2011 12:41	0.18	184
327	9/25/2011 12:42	0.17	168
328	9/25/2011 12:43	0.21	211
329	9/25/2011 12:44	0.14	137

330	9/25/2011 12:45	0.22	215
331	9/25/2011 12:46	0.30	304
332	9/25/2011 12:47	0.15	148
333	9/25/2011 12:48	0.12	124
334	9/25/2011 12:49	0.20	203
335	9/25/2011 12:50	0.23	227
336	9/25/2011 12:51	0.16	162
337	9/25/2011 12:52	0.15	153
338	9/25/2011 12:53	0.08	77
339	9/25/2011 12:54	0.14	141
340	9/25/2011 12:55	0.17	171
341	9/25/2011 12:56	0.18	179
342	9/25/2011 12:57	0.15	146
343	9/25/2011 12:58	0.22	220
344	9/25/2011 12:59	0.23	231
345	9/25/2011 13:00	0.19	193
346	9/25/2011 13:01	0.13	130
347	9/25/2011 13:02	0.19	187
348	9/25/2011 13:03	0.22	224
349	9/25/2011 13:04	0.24	242
350	9/25/2011 13:05	0.15	145
351	9/25/2011 13:06	0.08	82
352	9/25/2011 13:07	0.11	105
353	9/25/2011 13:08	0.15	146
354	9/25/2011 13:09	0.17	166
355	9/25/2011 13:10	0.06	55
356	9/25/2011 13:11	0.01	6
357	9/25/2011 13:12	0.02	22
358	9/25/2011 13:13	0.02	19
359	9/25/2011 13:14	0.06	56
360	9/25/2011 13:15	0.11	105
361	9/25/2011 13:16	0.07	69
362	9/25/2011 13:17	0.20	203
363	9/25/2011 13:18	0.12	122
364	9/25/2011 13:19	0.18	179
365	9/25/2011 13:20	0.15	153
366	9/25/2011 13:21	0.18	176
367	9/25/2011 13:22	0.04	43
368	9/25/2011 13:23	0.37	374
369	9/25/2011 13:24	0.24	244
370	9/25/2011 13:25	0.16	155
371	9/25/2011 13:26	0.14	142
372	9/25/2011 13:27	0.12	123
373	9/25/2011 13:28	0.12	121
374	9/25/2011 13:29	0.16	161
375	9/25/2011 13:30	0.26	262
376	9/25/2011 13:31	0.21	214
377	9/25/2011 13:32	0.20	197
378	9/25/2011 13:33	0.22	218
379	9/25/2011 13:34	0.18	180
380	9/25/2011 13:35	0.18	184
381	9/25/2011 13:36	0.27	265
382	9/25/2011 13:37	0.17	170
383	9/25/2011 13:38	0.16	160
384	9/25/2011 13:39	0.14	144
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386	9/25/2011 13:41	0.21	205
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391	9/25/2011 13:46	0.27	265
392	9/25/2011 13:47	0.25	246
393	9/25/2011 13:48	0.13	128
394	9/25/2011 13:49	0.22	224
395	9/25/2011 13:50	0.24	244
396	9/25/2011 13:51	0.28	280
397	9/25/2011 13:52	0.22	220
398	9/25/2011 13:53	0.21	208
399	9/25/2011 13:54	0.17	173

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401	9/25/2011 13:56	0.18	179
402	9/25/2011 13:57	0.23	230
403	9/25/2011 13:58	0.20	203
404	9/25/2011 13:59	0.17	166
405	9/25/2011 14:00	0.15	149
406	9/25/2011 14:01	0.16	163
407	9/25/2011 14:02	0.19	191
408	9/25/2011 14:03	0.20	199
409	9/25/2011 14:04	0.12	119
410	9/25/2011 14:05	0.09	85
411	9/25/2011 14:06	0.11	113
412	9/25/2011 14:07	0.17	167
413	9/25/2011 14:08	0.19	186
414	9/25/2011 14:09	0.29	290
415	9/25/2011 14:10	0.21	210
416	9/25/2011 14:11	0.24	242
417	9/25/2011 14:12	0.20	195
418	9/25/2011 14:13	0.24	240
419	9/25/2011 14:14	0.08	75
420	9/25/2011 14:15	0.12	115
421	9/25/2011 14:16	0.03	28
422	9/25/2011 14:17	0.07	65
423	9/25/2011 14:18	0.06	63
424	9/25/2011 14:19	0.24	242
425	9/25/2011 14:20	0.22	215
426	9/25/2011 14:21	0.06	61
427	9/25/2011 14:22	0.03	34
428	9/25/2011 14:23	0.10	103
429	9/25/2011 14:24	0.07	72
430	9/25/2011 14:25	0.10	97
431	9/25/2011 14:26	0.06	64
432	9/25/2011 14:27	0.16	155
433	9/25/2011 14:28	0.24	236
434	9/25/2011 14:29	0.17	167
435	9/25/2011 14:30	0.14	138
436	9/25/2011 14:31	0.09	86
437	9/25/2011 14:32	0.02	17
438	9/25/2011 14:33	0.17	168
439	9/25/2011 14:34	0.13	132
440	9/25/2011 14:35	0.09	93
441	9/25/2011 14:36	0.11	108
442	9/25/2011 14:37	0.16	160
443	9/25/2011 14:38	0.27	267
444	9/25/2011 14:39	0.18	183
445	9/25/2011 14:40	0.21	213
446	9/25/2011 14:41	0.22	221
447	9/25/2011 14:42	0.20	197
448	9/25/2011 14:43	0.18	184
449	9/25/2011 14:44	0.17	174
450	9/25/2011 14:45	0.21	207
451	9/25/2011 14:46	0.24	242
452	9/25/2011 14:47	0.30	303
453	9/25/2011 14:48	0.10	97
454	9/25/2011 14:49	0.00	1
455	9/25/2011 14:50	0.02	23
456	9/25/2011 14:51	0.05	54
457	9/25/2011 14:52	0.20	196
458	9/25/2011 14:53	0.23	227
459	9/25/2011 14:54	0.20	196
460	9/25/2011 14:55	0.17	167
461	9/25/2011 14:56	0.24	238
462	9/25/2011 14:57	0.21	207
463	9/25/2011 14:58	0.14	135
464	9/25/2011 14:59	0.13	134
465	9/25/2011 15:00	0.14	144
466	9/25/2011 15:01	0.13	134
467	9/25/2011 15:02	0.18	182
468	9/25/2011 15:03	0.20	204
469	9/25/2011 15:04	0.23	233

470	9/25/2011 15:05	0.14	139
471	9/25/2011 15:06	0.15	145
472	9/25/2011 15:07	0.18	177
473	9/25/2011 15:08	0.17	172
474	9/25/2011 15:09	0.20	198
475	9/25/2011 15:10	0.08	76
476	9/25/2011 15:11	0.16	159
477	9/25/2011 15:12	0.19	190
478	9/25/2011 15:13	0.27	274
479	9/25/2011 15:14	0.20	197
480	9/25/2011 15:15	0.19	193
481	9/25/2011 15:16	0.13	125
482	9/25/2011 15:17	0.41	408
483	9/25/2011 15:18	0.21	208
484	9/25/2011 15:19	0.22	224
485	9/25/2011 15:20	0.35	347
486	9/25/2011 15:21	0.24	236
487	9/25/2011 15:22	0.23	229
488	9/25/2011 15:23	0.18	176
489	9/25/2011 15:24	0.27	272
490	9/25/2011 15:25	0.20	203
491	9/25/2011 15:26	0.35	350
492	9/25/2011 15:27	0.29	287
493	9/25/2011 15:28	0.40	399
494	9/25/2011 15:29	0.23	232
495	9/25/2011 15:30	0.31	309
496	9/25/2011 15:31	0.28	280
497	9/25/2011 15:32	0.21	205
498	9/25/2011 15:33	0.19	193
499	9/25/2011 15:34	0.22	221
500	9/25/2011 15:35	0.22	216
501	9/25/2011 15:36	0.22	221
502	9/25/2011 15:37	0.17	171
503	9/25/2011 15:38	0.18	179
504	9/25/2011 15:39	0.17	170
505	9/25/2011 15:40	0.19	185
506	9/25/2011 15:41	0.14	143
507	9/25/2011 15:42	0.17	173
508	9/25/2011 15:43	0.15	150
509	9/25/2011 15:44	0.24	243
510	9/25/2011 15:45	0.33	328
511	9/25/2011 15:46	0.20	197
512	9/25/2011 15:47	0.21	210
513	9/25/2011 15:48	0.16	158
514	9/25/2011 15:49	0.16	160
515	9/25/2011 15:50	0.19	193
516	9/25/2011 15:51	0.04	37
517	9/25/2011 15:52	0.24	242
518	9/25/2011 15:53	0.19	187
519	9/25/2011 15:54	0.14	140
520	9/25/2011 15:55	0.15	153
521	9/25/2011 15:56	0.12	115
522	9/25/2011 15:57	0.10	96
523	9/25/2011 15:58	0.06	55
524	9/25/2011 15:59	0.06	64
525	9/25/2011 16:00	0.17	171
526	9/25/2011 16:01	0.02	21
527	9/25/2011 16:02	0.07	74
528	9/25/2011 16:03	0.07	69
529	9/25/2011 16:04	0.10	103
530	9/25/2011 16:05	0.15	153
531	9/25/2011 16:06	0.12	121
532	9/25/2011 16:07	0.08	80
533	9/25/2011 16:08	0.15	147
534	9/25/2011 16:09	0.11	107
535	9/25/2011 16:10	0.11	105
536	9/25/2011 16:11	0.08	81
537	9/25/2011 16:12	0.09	87
538	9/25/2011 16:13	0.10	95
539	9/25/2011 16:14	0.10	97

540	9/25/2011 16:15	0.08	77
541	9/25/2011 16:16	0.05	50
542	9/25/2011 16:17	0.05	50
543	9/25/2011 16:18	0.04	41
544	9/25/2011 16:19	0.00	2
545	9/25/2011 16:20	0.07	68
546	9/25/2011 16:21	0.12	122
547	9/25/2011 16:22	0.55	554
548	9/25/2011 16:23	0.41	411
549	9/25/2011 16:24	0.41	410
550	9/25/2011 16:25	0.12	124
551	9/25/2011 16:26	0.12	116
552	9/25/2011 16:27	0.05	51
553	9/25/2011 16:28	0.08	82
554	9/25/2011 16:29	0.14	142
555	9/25/2011 16:30	0.13	134
556	9/25/2011 16:31	0.03	28
557	9/25/2011 16:32	0.10	101
558	9/25/2011 16:33	0.19	193
559	9/25/2011 16:34	0.18	182
560	9/25/2011 16:35	0.04	39
561	9/25/2011 16:36	0.13	130
562	9/25/2011 16:37	0.14	141
563	9/25/2011 16:38	0.10	99
564	9/25/2011 16:39	0.12	119
565	9/25/2011 16:40	0.18	180
566	9/25/2011 16:41	0.20	201
567	9/25/2011 16:42	0.02	22
568	9/25/2011 16:43	0.03	25
569	9/25/2011 16:44	0.03	32
570	9/25/2011 16:45	0.04	43
571	9/25/2011 16:46	0.05	45
572	9/25/2011 16:47	0.04	43
573	9/25/2011 16:48	0.02	22
574	9/25/2011 16:49	0.07	66
575	9/25/2011 16:50	0.06	55
576	9/25/2011 16:51	0.20	202
577	9/25/2011 16:52	0.13	129
578	9/25/2011 16:53	0.11	105
579	9/25/2011 16:54	0.25	252
580	9/25/2011 16:55	0.03	34
581	9/25/2011 16:56	0.00	0
582	9/25/2011 16:57	0.15	146
583	9/25/2011 16:58	0.22	224
584	9/25/2011 16:59	0.19	194
585	9/25/2011 17:00	0.05	45
586	9/25/2011 17:01	0.07	71
587	9/25/2011 17:02	0.11	111
588	9/25/2011 17:03	0.13	126
589	9/25/2011 17:04	0.02	23
590	9/25/2011 17:05	0.12	117
591	9/25/2011 17:06	0.08	81
592	9/25/2011 17:07	0.11	113
593	9/25/2011 17:08	0.08	76
594	9/25/2011 17:09	0.07	72
595	9/25/2011 17:10	0.08	75
596	9/25/2011 17:11	0.06	55
597	9/25/2011 17:12	0.04	44
598	9/25/2011 17:13	0.05	52
599	9/25/2011 17:14	0.18	180
600	9/25/2011 17:15	0.04	37
601	9/25/2011 17:16	0.03	32
602	9/25/2011 17:17	0.02	16
603	9/25/2011 17:18	0.01	13
604	9/25/2011 17:19	0.02	18
605	9/25/2011 17:20	0.06	62
606	9/25/2011 17:21	0.01	9
607	9/25/2011 17:22	0.00	4
608	9/25/2011 17:23	0.03	34
609	9/25/2011 17:24	0.04	38

610	9/25/2011 17:25	0.00	2
611	9/25/2011 17:26	0.23	228
612	9/25/2011 17:27	0.05	52
613	9/25/2011 17:28	0.04	37
614	9/25/2011 17:29	0.03	28
615	9/25/2011 17:30	0.00	0
616	9/25/2011 17:31	0.01	9
617	9/25/2011 17:32	0.03	28
618	9/25/2011 17:33	0.01	12
619	9/25/2011 17:34	0.17	172
620	9/25/2011 17:35	0.25	250
621	9/25/2011 17:36	0.10	98
622	9/25/2011 17:37	0.09	92
623	9/25/2011 17:38	0.08	83
624	9/25/2011 17:39	0.10	97
625	9/25/2011 17:40	0.07	74
626	9/25/2011 17:41	0.07	72
627	9/25/2011 17:42	0.16	157
628	9/25/2011 17:43	0.23	227
629	9/25/2011 17:44	0.07	67
630	9/25/2011 17:45	0.03	32
631	9/25/2011 17:46	0.09	92
632	9/25/2011 17:47	0.00	2
633	9/25/2011 17:48	0.02	16
634	9/25/2011 17:49	0.11	114
635	9/25/2011 17:50	0.02	20
636	9/25/2011 17:51	0.16	164
637	9/25/2011 17:52	0.22	215
638	9/25/2011 17:53	0.26	263
639	9/25/2011 17:54	0.24	244
640	9/25/2011 17:55	0.03	25
641	9/25/2011 17:56	0.02	15
642	9/25/2011 17:57	0.03	29
643	9/25/2011 17:58	0.11	106
644	9/25/2011 17:59	0.14	143
645	9/25/2011 18:00	0.11	108
646	9/25/2011 18:01	0.08	82
647	9/25/2011 18:02	0.06	57
648	9/25/2011 18:03	0.01	11
649	9/25/2011 18:04	0.08	80
650	9/25/2011 18:05	0.09	87
651	9/25/2011 18:06	0.13	128
652	9/25/2011 18:07	0.05	54
653	9/25/2011 18:08	0.08	75
654	9/25/2011 18:09	0.11	107
655	9/25/2011 18:10	0.01	10
656	9/25/2011 18:11	0.02	20
657	9/25/2011 18:12	0.19	190
658	9/25/2011 18:13	0.21	213
659	9/25/2011 18:14	0.08	81
660	9/25/2011 18:15	0.01	11
661	9/25/2011 18:16	0.05	49
662	9/25/2011 18:17	0.00	2
663	9/25/2011 18:18	0.01	12
664	9/25/2011 18:19	0.01	13
665	9/25/2011 18:20	0.03	27
666	9/25/2011 18:21	0.03	25
667	9/25/2011 18:22	0.01	8
668	9/25/2011 18:23	0.04	41
669	9/25/2011 18:24	0.21	207
670	9/25/2011 18:25	0.11	113
671	9/25/2011 18:26	0.22	222
672	9/25/2011 18:27	0.05	49
673	9/25/2011 18:28	0.05	50
674	9/25/2011 18:29	0.16	164
675	9/25/2011 18:30	0.10	99
676	9/25/2011 18:31	0.13	126
677	9/25/2011 18:32	0.06	62
678	9/25/2011 18:33	0.09	85
679	9/25/2011 18:34	0.03	32

680	9/25/2011 18:35	0.01	9
681	9/25/2011 18:36	0.04	43
682	9/25/2011 18:37	0.08	83
683	9/25/2011 18:38	0.07	72
684	9/25/2011 18:39	0.12	116
685	9/25/2011 18:40	0.05	45
686	9/25/2011 18:41	0.05	49
687	9/25/2011 18:42	0.05	50
688	9/25/2011 18:43	0.03	29
689	9/25/2011 18:44	0.01	12
690	9/25/2011 18:45	0.02	24
691	9/25/2011 18:46	0.05	47
692	9/25/2011 18:47	0.12	117
693	9/25/2011 18:48	0.25	245
694	9/25/2011 18:49	0.85	854
695	9/25/2011 18:50	0.55	552
696	9/25/2011 18:51	0.18	175
697	9/25/2011 18:52	0.26	258
698	9/25/2011 18:53	1.29	1294
699	9/25/2011 18:54	0.90	897
700	9/25/2011 18:55	0.35	347
701	9/25/2011 18:56	0.48	481
702	9/25/2011 18:57	0.48	475

==========Event #37 information (end)==========

=========Event #40 information (begin)=========

[Event #40 name:]--[Event #40]2011-09-26 09:53<-->2011-09-26 15:24

[Event start time:]--2011-09-26 09:53:59[Event end time:]--2011-09-26 15:24:59

==========Event #40 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 331 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-26 07:43:00

Drift Value : ---

Low Alarm Levels : 25847

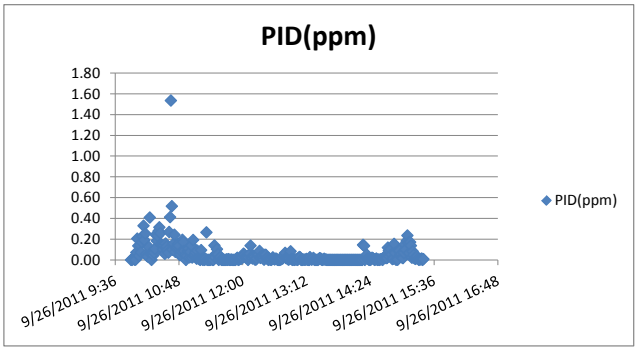
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #40 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/26/2011 9:54	0.00	0
2	9/26/2011 9:55	0.00	0
3	9/26/2011 9:56	0.01	11
4	9/26/2011 9:57	0.01	9
5	9/26/2011 9:58	0.00	2
6	9/26/2011 9:59	0.00	1
7	9/26/2011 10:00	0.07	70
8	9/26/2011 10:01	0.21	205
9	9/26/2011 10:02	0.14	135
10	9/26/2011 10:03	0.04	39
11	9/26/2011 10:04	0.14	141
12	9/26/2011 10:05	0.08	75
13	9/26/2011 10:06	0.17	171
14	9/26/2011 10:07	0.23	225
15	9/26/2011 10:08	0.33	328
16	9/26/2011 10:09	0.19	191
17	9/26/2011 10:10	0.25	254
18	9/26/2011 10:11	0.05	53
19	9/26/2011 10:12	0.04	37
20	9/26/2011 10:13	0.03	31
21	9/26/2011 10:14	0.12	123
22	9/26/2011 10:15	0.41	407
23	9/26/2011 10:16	0.06	57
24	9/26/2011 10:17	0.00	0
25	9/26/2011 10:18	0.06	60
26	9/26/2011 10:19	0.04	42
27	9/26/2011 10:20	0.07	70
28	9/26/2011 10:21	0.11	106
29	9/26/2011 10:22	0.24	242
30	9/26/2011 10:23	0.18	183
31	9/26/2011 10:24	0.23	231
32	9/26/2011 10:25	0.28	277
33	9/26/2011 10:26	0.31	313
34	9/26/2011 10:27	0.26	257
35	9/26/2011 10:28	0.15	152
36	9/26/2011 10:29	0.14	140
37	9/26/2011 10:30	0.10	101
38	9/26/2011 10:31	0.14	137
39	9/26/2011 10:32	0.06	57
40	9/26/2011 10:33	0.16	157
41	9/26/2011 10:34	0.13	127
42	9/26/2011 10:35	0.09	92
43	9/26/2011 10:36	0.07	69
44	9/26/2011 10:37	0.27	268
45	9/26/2011 10:38	0.41	412
46	9/26/2011 10:39	1.54	1535
47	9/26/2011 10:40	0.52	516
48	9/26/2011 10:41	0.10	97
49	9/26/2011 10:42	0.16	155
50	9/26/2011 10:43	0.24	243
51	9/26/2011 10:44	0.08	77
52	9/26/2011 10:45	0.11	112
53	9/26/2011 10:46	0.13	128
54	9/26/2011 10:47	0.15	154
55	9/26/2011 10:48	0.13	134

56	9/26/2011 10:49	0.05	45
57	9/26/2011 10:50	0.05	51
58	9/26/2011 10:51	0.08	79
59	9/26/2011 10:52	0.19	194
60	9/26/2011 10:53	0.17	172
61	9/26/2011 10:54	0.09	85
62	9/26/2011 10:55	0.04	42
63	9/26/2011 10:56	0.00	0
64	9/26/2011 10:57	0.04	37
65	9/26/2011 10:58	0.09	85
66	9/26/2011 10:59	0.11	108
67	9/26/2011 11:00	0.02	24
68	9/26/2011 11:01	0.08	76
69	9/26/2011 11:02	0.14	138
70	9/26/2011 11:03	0.02	21
71	9/26/2011 11:04	0.19	192
72	9/26/2011 11:05	0.04	36
73	9/26/2011 11:06	0.05	48
74	9/26/2011 11:07	0.07	72
75	9/26/2011 11:08	0.01	10
76	9/26/2011 11:09	0.09	88
77	9/26/2011 11:10	0.02	19
78	9/26/2011 11:11	0.01	7
79	9/26/2011 11:12	0.00	0
80	9/26/2011 11:13	0.09	94
81	9/26/2011 11:14	0.01	7
82	9/26/2011 11:15	0.00	0
83	9/26/2011 11:16	0.02	17
84	9/26/2011 11:17	0.00	0
85	9/26/2011 11:18	0.01	10
86	9/26/2011 11:19	0.27	265
87	9/26/2011 11:20	0.00	0
88	9/26/2011 11:21	0.00	0
89	9/26/2011 11:22	0.00	0
90	9/26/2011 11:23	0.00	0
91	9/26/2011 11:24	0.00	1
92	9/26/2011 11:25	0.01	14
93	9/26/2011 11:26	0.00	0
94	9/26/2011 11:27	0.00	0
95	9/26/2011 11:28	0.14	139
96	9/26/2011 11:29	0.02	24
97	9/26/2011 11:30	0.06	60
98	9/26/2011 11:31	0.10	103
99	9/26/2011 11:32	0.06	56
100	9/26/2011 11:33	0.00	0
101	9/26/2011 11:34	0.02	18
102	9/26/2011 11:35	0.03	25
103	9/26/2011 11:36	0.00	0
104	9/26/2011 11:37	0.00	0
105	9/26/2011 11:38	0.00	0
106	9/26/2011 11:39	0.00	0
107	9/26/2011 11:40	0.00	0
108	9/26/2011 11:41	0.00	0
109	9/26/2011 11:42	0.01	5
110	9/26/2011 11:43	0.00	0
111	9/26/2011 11:44	0.01	6
112	9/26/2011 11:45	0.00	0
113	9/26/2011 11:46	0.00	0
114	9/26/2011 11:47	0.00	3
115	9/26/2011 11:48	0.00	0
116	9/26/2011 11:49	0.00	0
117	9/26/2011 11:50	0.00	0
118	9/26/2011 11:51	0.00	0
119	9/26/2011 11:52	0.00	0
120	9/26/2011 11:53	0.01	11
121	9/26/2011 11:54	0.02	20
122	9/26/2011 11:55	0.00	0
123	9/26/2011 11:56	0.00	3
124	9/26/2011 11:57	0.02	15
125	9/26/2011 11:58	0.01	9
126	9/26/2011 11:59	0.02	22
127	9/26/2011 12:00	0.02	21
128	9/26/2011 12:01	0.06	59
129	9/26/2011 12:02	0.05	51
130	9/26/2011 12:03	0.03	28
131	9/26/2011 12:04	0.02	20

132	9/26/2011 12:05	0.02	24
133	9/26/2011 12:06	0.00	0
134	9/26/2011 12:07	0.02	21
135	9/26/2011 12:08	0.06	57
136	9/26/2011 12:09	0.14	136
137	9/26/2011 12:10	0.03	26
138	9/26/2011 12:11	0.01	12
139	9/26/2011 12:12	0.04	41
140	9/26/2011 12:13	0.03	27
141	9/26/2011 12:14	0.00	1
142	9/26/2011 12:15	0.00	3
143	9/26/2011 12:16	0.02	15
144	9/26/2011 12:17	0.05	52
145	9/26/2011 12:18	0.05	51
146	9/26/2011 12:19	0.09	86
147	9/26/2011 12:20	0.02	18
148	9/26/2011 12:21	0.03	32
149	9/26/2011 12:22	0.04	35
150	9/26/2011 12:23	0.02	17
151	9/26/2011 12:24	0.00	2
152	9/26/2011 12:25	0.05	48
153	9/26/2011 12:26	0.05	48
154	9/26/2011 12:27	0.01	14
155	9/26/2011 12:28	0.02	24
156	9/26/2011 12:29	0.00	0
157	9/26/2011 12:30	0.01	11
158	9/26/2011 12:31	0.00	2
159	9/26/2011 12:32	0.00	0
160	9/26/2011 12:33	0.01	5
161	9/26/2011 12:34	0.02	24
162	9/26/2011 12:35	0.01	11
163	9/26/2011 12:36	0.00	4
164	9/26/2011 12:37	0.01	11
165	9/26/2011 12:38	0.01	11
166	9/26/2011 12:39	0.00	1
167	9/26/2011 12:40	0.00	0
168	9/26/2011 12:41	0.00	0
169	9/26/2011 12:42	0.00	0
170	9/26/2011 12:43	0.00	3
171	9/26/2011 12:44	0.01	11
172	9/26/2011 12:45	0.01	13
173	9/26/2011 12:46	0.04	38
174	9/26/2011 12:47	0.05	49
175	9/26/2011 12:48	0.07	67
176	9/26/2011 12:49	0.02	17
177	9/26/2011 12:50	0.02	18
178	9/26/2011 12:51	0.01	6
179	9/26/2011 12:52	0.00	1
180	9/26/2011 12:53	0.01	13
181	9/26/2011 12:54	0.08	82
182	9/26/2011 12:55	0.01	6
183	9/26/2011 12:56	0.00	0
184	9/26/2011 12:57	0.01	5
185	9/26/2011 12:58	0.00	0
186	9/26/2011 12:59	0.00	3
187	9/26/2011 13:00	0.00	4
188	9/26/2011 13:01	0.00	4
189	9/26/2011 13:02	0.00	0
190	9/26/2011 13:03	0.02	18
191	9/26/2011 13:04	0.03	27
192	9/26/2011 13:05	0.02	24
193	9/26/2011 13:06	0.00	0
194	9/26/2011 13:07	0.00	0
195	9/26/2011 13:08	0.00	4
196	9/26/2011 13:09	0.00	1
197	9/26/2011 13:10	0.00	2
198	9/26/2011 13:11	0.00	1
199	9/26/2011 13:12	0.01	8
200	9/26/2011 13:13	0.00	1
201	9/26/2011 13:14	0.00	0
202	9/26/2011 13:15	0.00	0
203	9/26/2011 13:16	0.03	25
204	9/26/2011 13:17	0.01	6
205	9/26/2011 13:18	0.00	1
206	9/26/2011 13:19	0.01	8
207	9/26/2011 13:20	0.02	18

208	9/26/2011 13:21	0.00	0
209	9/26/2011 13:22	0.00	0
210	9/26/2011 13:23	0.00	0
211	9/26/2011 13:24	0.00	0
212	9/26/2011 13:25	0.00	0
213	9/26/2011 13:26	0.01	6
214	9/26/2011 13:27	0.02	17
215	9/26/2011 13:28	0.01	12
216	9/26/2011 13:29	0.00	1
217	9/26/2011 13:30	0.00	0
218	9/26/2011 13:31	0.00	4
219	9/26/2011 13:32	0.01	10
220	9/26/2011 13:33	0.00	1
221	9/26/2011 13:34	0.00	3
222	9/26/2011 13:35	0.00	0
223	9/26/2011 13:36	0.00	0
224	9/26/2011 13:37	0.00	0
225	9/26/2011 13:38	0.00	0
226	9/26/2011 13:39	0.00	0
227	9/26/2011 13:40	0.00	0
228	9/26/2011 13:41	0.00	0
229	9/26/2011 13:42	0.00	0
230	9/26/2011 13:43	0.00	0
231	9/26/2011 13:44	0.00	0
232	9/26/2011 13:45	0.00	0
233	9/26/2011 13:46	0.00	0
234	9/26/2011 13:47	0.00	0
235	9/26/2011 13:48	0.00	0
236	9/26/2011 13:49	0.00	0
237	9/26/2011 13:50	0.00	0
238	9/26/2011 13:51	0.00	0
239	9/26/2011 13:52	0.00	0
240	9/26/2011 13:53	0.00	0
241	9/26/2011 13:54	0.00	0
242	9/26/2011 13:55	0.00	0
243	9/26/2011 13:56	0.00	0
244	9/26/2011 13:57	0.00	0
245	9/26/2011 13:58	0.00	0
246	9/26/2011 13:59	0.00	0
247	9/26/2011 14:00	0.00	0
248	9/26/2011 14:01	0.00	0
249	9/26/2011 14:02	0.00	0
250	9/26/2011 14:03	0.00	0
251	9/26/2011 14:04	0.00	0
252	9/26/2011 14:05	0.00	0
253	9/26/2011 14:06	0.00	0
254	9/26/2011 14:07	0.00	0
255	9/26/2011 14:08	0.00	0
256	9/26/2011 14:09	0.00	0
257	9/26/2011 14:10	0.00	0
258	9/26/2011 14:11	0.00	0
259	9/26/2011 14:12	0.00	0
260	9/26/2011 14:13	0.00	0
261	9/26/2011 14:14	0.00	0
262	9/26/2011 14:15	0.00	0
263	9/26/2011 14:16	0.15	145
264	9/26/2011 14:17	0.13	134
265	9/26/2011 14:18	0.00	0
266	9/26/2011 14:19	0.03	27
267	9/26/2011 14:20	0.05	50
268	9/26/2011 14:21	0.01	12
269	9/26/2011 14:22	0.00	4
270	9/26/2011 14:23	0.00	0
271	9/26/2011 14:24	0.00	0
272	9/26/2011 14:25	0.01	5
273	9/26/2011 14:26	0.02	20
274	9/26/2011 14:27	0.02	16
275	9/26/2011 14:28	0.01	6
276	9/26/2011 14:29	0.00	0
277	9/26/2011 14:30	0.00	3
278	9/26/2011 14:31	0.01	13
279	9/26/2011 14:32	0.00	0
280	9/26/2011 14:33	0.00	3
281	9/26/2011 14:34	0.00	0
282	9/26/2011 14:35	0.00	4
283	9/26/2011 14:36	0.01	5

284	9/26/2011 14:37	0.01	6
285	9/26/2011 14:38	0.00	0
286	9/26/2011 14:39	0.02	18
287	9/26/2011 14:40	0.03	30
288	9/26/2011 14:41	0.02	22
289	9/26/2011 14:42	0.02	16
290	9/26/2011 14:43	0.02	18
291	9/26/2011 14:44	0.12	118
292	9/26/2011 14:45	0.09	89
293	9/26/2011 14:46	0.04	35
294	9/26/2011 14:47	0.10	102
295	9/26/2011 14:48	0.05	53
296	9/26/2011 14:49	0.01	7
297	9/26/2011 14:50	0.01	11
298	9/26/2011 14:51	0.15	154
299	9/26/2011 14:52	0.07	67
300	9/26/2011 14:53	0.00	2
301	9/26/2011 14:54	0.00	1
302	9/26/2011 14:55	0.00	1
303	9/26/2011 14:56	0.09	88
304	9/26/2011 14:57	0.09	90
305	9/26/2011 14:58	0.04	44
306	9/26/2011 14:59	0.06	58
307	9/26/2011 15:00	0.02	21
308	9/26/2011 15:01	0.02	17
309	9/26/2011 15:02	0.07	67
310	9/26/2011 15:03	0.15	149
311	9/26/2011 15:04	0.10	99
312	9/26/2011 15:05	0.18	182
313	9/26/2011 15:06	0.23	234
314	9/26/2011 15:07	0.17	165
315	9/26/2011 15:08	0.07	67
316	9/26/2011 15:09	0.17	171
317	9/26/2011 15:10	0.14	137
318	9/26/2011 15:11	0.02	20
319	9/26/2011 15:12	0.08	83
320	9/26/2011 15:13	0.05	47
321	9/26/2011 15:14	0.02	15
322	9/26/2011 15:15	0.01	8
323	9/26/2011 15:16	0.02	16
324	9/26/2011 15:17	0.03	31
325	9/26/2011 15:18	0.01	13
326	9/26/2011 15:19	0.00	0
327	9/26/2011 15:20	0.01	8
328	9/26/2011 15:21	0.00	3
329	9/26/2011 15:22	0.01	12
330	9/26/2011 15:23	0.00	0
331	9/26/2011 15:24	0.01	7

==========Event #40 information (end)==========

==========Event #2 information (begin)==========

==========

[Event #2 name:]--[Event #2]2011-09-27 09:32<-->2011-09-27 15:15

[Event start time:]--2011-09-27 09:32:12[Event end time:]--2011-09-27 15:15:12

==========Event #2 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 343 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-09-27 08:48:00

Drift Value : ---

Low Alarm Levels : 25847

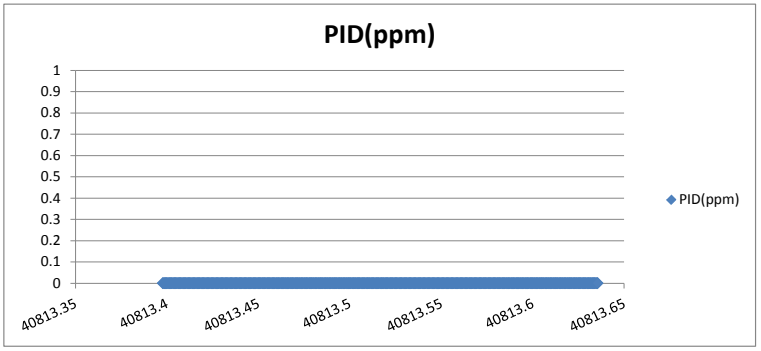
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #2 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	9/27/2011 9:33	0.00	0
2	9/27/2011 9:34	0.00	0
3	9/27/2011 9:35	0.00	0
4	9/27/2011 9:36	0.00	0
5	9/27/2011 9:37	0.00	0
6	9/27/2011 9:38	0.00	0
7	9/27/2011 9:39	0.00	0
8	9/27/2011 9:40	0.00	0
9	9/27/2011 9:41	0.00	0
10	9/27/2011 9:42	0.00	0
11	9/27/2011 9:43	0.00	0
12	9/27/2011 9:44	0.00	0
13	9/27/2011 9:45	0.00	0
14	9/27/2011 9:46	0.00	0
15	9/27/2011 9:47	0.00	0
16	9/27/2011 9:48	0.00	0
17	9/27/2011 9:49	0.00	0
18	9/27/2011 9:50	0.00	0
19	9/27/2011 9:51	0.00	0
20	9/27/2011 9:52	0.00	0
21	9/27/2011 9:53	0.00	0
22	9/27/2011 9:54	0.00	0
23	9/27/2011 9:55	0.00	0
24	9/27/2011 9:56	0.00	0
25	9/27/2011 9:57	0.00	0
26	9/27/2011 9:58	0.00	0
27	9/27/2011 9:59	0.00	0
28	9/27/2011 10:00	0.00	0
29	9/27/2011 10:01	0.00	0
30	9/27/2011 10:02	0.00	0
31	9/27/2011 10:03	0.00	0
32	9/27/2011 10:04	0.00	0
33	9/27/2011 10:05	0.00	0
34	9/27/2011 10:06	0.00	0
35	9/27/2011 10:07	0.00	0
36	9/27/2011 10:08	0.00	0
37	9/27/2011 10:09	0.00	0
38	9/27/2011 10:10	0.00	0
39	9/27/2011 10:11	0.00	0
40	9/27/2011 10:12	0.00	0
41	9/27/2011 10:13	0.00	0
42	9/27/2011 10:14	0.00	0
43	9/27/2011 10:15	0.00	0
44	9/27/2011 10:16	0.00	0
45	9/27/2011 10:17	0.00	0
46	9/27/2011 10:18	0.00	0
47	9/27/2011 10:19	0.00	0
48	9/27/2011 10:20	0.00	0
49	9/27/2011 10:21	0.00	0
50	9/27/2011 10:22	0.00	0
51	9/27/2011 10:23	0.00	0
52	9/27/2011 10:24	0.00	0
53	9/27/2011 10:25	0.00	0
54	9/27/2011 10:26	0.00	0
55	9/27/2011 10:27	0.00	0
56	9/27/2011 10:28	0.00	0
57	9/27/2011 10:29	0.00	0
58	9/27/2011 10:30	0.00	0
59	9/27/2011 10:31	0.00	0

60	9/27/2011 10:32	0.00	0
61	9/27/2011 10:33	0.00	0
62	9/27/2011 10:34	0.00	0
63	9/27/2011 10:35	0.00	0
64	9/27/2011 10:36	0.00	0
65	9/27/2011 10:37	0.00	0
66	9/27/2011 10:38	0.00	0
67	9/27/2011 10:39	0.00	0
68	9/27/2011 10:40	0.00	0
69	9/27/2011 10:41	0.00	0
70	9/27/2011 10:42	0.00	0
71	9/27/2011 10:43	0.00	0
72	9/27/2011 10:44	0.00	0
73	9/27/2011 10:45	0.00	0
74	9/27/2011 10:46	0.00	0
75	9/27/2011 10:47	0.00	0
76	9/27/2011 10:48	0.00	0
77	9/27/2011 10:49	0.00	0
78	9/27/2011 10:50	0.00	0
79	9/27/2011 10:51	0.00	0
80	9/27/2011 10:52	0.00	0
81	9/27/2011 10:53	0.00	0
82	9/27/2011 10:54	0.00	0
83	9/27/2011 10:55	0.00	0
84	9/27/2011 10:56	0.00	0
85	9/27/2011 10:57	0.00	0
86	9/27/2011 10:58	0.00	0
87	9/27/2011 10:59	0.00	0
88	9/27/2011 11:00	0.00	0
89	9/27/2011 11:01	0.00	0
90	9/27/2011 11:02	0.00	0
91	9/27/2011 11:03	0.00	0
92	9/27/2011 11:04	0.00	0
93	9/27/2011 11:05	0.00	0
94	9/27/2011 11:06	0.00	0
95	9/27/2011 11:07	0.00	0
96	9/27/2011 11:08	0.00	0
97	9/27/2011 11:09	0.00	0
98	9/27/2011 11:10	0.00	0
99	9/27/2011 11:11	0.00	0
100	9/27/2011 11:12	0.00	0
101	9/27/2011 11:13	0.00	0
102	9/27/2011 11:14	0.00	0
103	9/27/2011 11:15	0.00	0
104	9/27/2011 11:16	0.00	0
105	9/27/2011 11:17	0.00	0
106	9/27/2011 11:18	0.00	0
107	9/27/2011 11:19	0.00	0
108	9/27/2011 11:20	0.00	0
109	9/27/2011 11:21	0.00	0
110	9/27/2011 11:22	0.00	0
111	9/27/2011 11:23	0.00	0
112	9/27/2011 11:24	0.00	0
113	9/27/2011 11:25	0.00	0
114	9/27/2011 11:26	0.00	0
115	9/27/2011 11:27	0.00	0
116	9/27/2011 11:28	0.00	0
117	9/27/2011 11:29	0.00	0
118	9/27/2011 11:30	0.00	0
119	9/27/2011 11:31	0.00	0
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122	9/27/2011 11:34	0.00	0
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138	9/27/2011 11:50	0.00	0
139	9/27/2011 11:51	0.00	0

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150	9/27/2011 12:02	0.00	0
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156	9/27/2011 12:08	0.00	0
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158	9/27/2011 12:10	0.00	0
159	9/27/2011 12:11	0.00	0
160	9/27/2011 12:12	0.00	0
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218	9/27/2011 13:10	0.00	0
219	9/27/2011 13:11	0.00	0

220	9/27/2011 13:12	0.00	0
221	9/27/2011 13:13	0.00	0
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283	9/27/2011 14:15	0.00	0
284	9/27/2011 14:16	0.00	0
285	9/27/2011 14:17	0.00	0
286	9/27/2011 14:18	0.00	0
287	9/27/2011 14:19	0.00	0
288	9/27/2011 14:20	0.00	0
289	9/27/2011 14:21	0.00	0
290	9/27/2011 14:22	0.00	0
291	9/27/2011 14:23	0.00	0
292	9/27/2011 14:24	0.00	0
293	9/27/2011 14:25	0.00	0
294	9/27/2011 14:26	0.00	0
295	9/27/2011 14:27	0.00	0
296	9/27/2011 14:28	0.00	0
297	9/27/2011 14:29	0.00	0
298	9/27/2011 14:30	0.00	0
299	9/27/2011 14:31	0.00	0

300	9/27/2011 14:32	0.00	0
301	9/27/2011 14:33	0.00	0
302	9/27/2011 14:34	0.00	0
303	9/27/2011 14:35	0.00	0
304	9/27/2011 14:36	0.00	0
305	9/27/2011 14:37	0.00	0
306	9/27/2011 14:38	0.00	0
307	9/27/2011 14:39	0.00	0
308	9/27/2011 14:40	0.00	0
309	9/27/2011 14:41	0.00	0
310	9/27/2011 14:42	0.00	0
311	9/27/2011 14:43	0.00	0
312	9/27/2011 14:44	0.00	0
313	9/27/2011 14:45	0.00	0
314	9/27/2011 14:46	0.00	0
315	9/27/2011 14:47	0.00	0
316	9/27/2011 14:48	0.00	0
317	9/27/2011 14:49	0.00	0
318	9/27/2011 14:50	0.00	0
319	9/27/2011 14:51	0.00	0
320	9/27/2011 14:52	0.00	0
321	9/27/2011 14:53	0.00	0
322	9/27/2011 14:54	0.00	0
323	9/27/2011 14:55	0.00	0
324	9/27/2011 14:56	0.00	0
325	9/27/2011 14:57	0.00	0
326	9/27/2011 14:58	0.00	0
327	9/27/2011 14:59	0.00	0
328	9/27/2011 15:00	0.00	0
329	9/27/2011 15:01	0.00	0
330	9/27/2011 15:02	0.00	0
331	9/27/2011 15:03	0.00	0
332	9/27/2011 15:04	0.00	0
333	9/27/2011 15:05	0.00	0
334	9/27/2011 15:06	0.00	0
335	9/27/2011 15:07	0.00	0
336	9/27/2011 15:08	0.00	0
337	9/27/2011 15:09	0.00	0
338	9/27/2011 15:10	0.00	0
339	9/27/2011 15:11	0.00	0
340	9/27/2011 15:12	0.00	0
341	9/27/2011 15:13	0.00	0
342	9/27/2011 15:14	0.00	0
343	9/27/2011 15:15	0.00	0

==========Event #2 information (end)==========

==========Event #7 information (begin)==========

[Event #7 name:]--[Event #7]2011-10-20 08:57<-->2011-10-20 18:02

[Event start time:]--2011-10-20 08:57:54[Event end time:]--2011-10-20 18:02:54

==========Event #7 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 545 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-20 08:57:00

Drift Value : ---

Low Alarm Levels : 25847

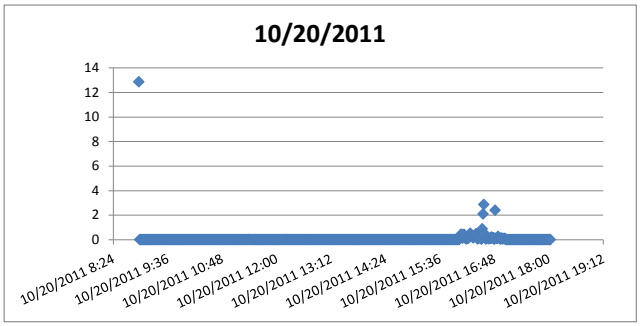
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #7 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/20/2011 8:58	12.864	12864
2	10/20/2011 8:59	0	0
3	10/20/2011 9:00	0	0
4	10/20/2011 9:01	0	0
5	10/20/2011 9:02	0	0
6	10/20/2011 9:03	0	0
7	10/20/2011 9:04	0	0
8	10/20/2011 9:05	0	0
9	10/20/2011 9:06	0	0
10	10/20/2011 9:07	0	0
11	10/20/2011 9:08	0	0
12	10/20/2011 9:09	0	0
13	10/20/2011 9:10	0	0
14	10/20/2011 9:11	0	0
15	10/20/2011 9:12	0	0
16	10/20/2011 9:13	0	0
17	10/20/2011 9:14	0	0
18	10/20/2011 9:15	0	0
19	10/20/2011 9:16	0	0
20	10/20/2011 9:17	0	0
21	10/20/2011 9:18	0	0
22	10/20/2011 9:19	0	0
23	10/20/2011 9:20	0	0
24	10/20/2011 9:21	0	0
25	10/20/2011 9:22	0	0
26	10/20/2011 9:23	0	0
27	10/20/2011 9:24	0	0
28	10/20/2011 9:25	0	0
29	10/20/2011 9:26	0	0
30	10/20/2011 9:27	0	0
31	10/20/2011 9:28	0	0
32	10/20/2011 9:29	0	0
33	10/20/2011 9:30	0	0
34	10/20/2011 9:31	0	0
35	10/20/2011 9:32	0	0
36	10/20/2011 9:33	0	0
37	10/20/2011 9:34	0	0
38	10/20/2011 9:35	0	0
39	10/20/2011 9:36	0	0
40	10/20/2011 9:37	0	0
41	10/20/2011 9:38	0	0
42	10/20/2011 9:39	0	0
43	10/20/2011 9:40	0	0
44	10/20/2011 9:41	0	0
45	10/20/2011 9:42	0	0
46	10/20/2011 9:43	0	0
47	10/20/2011 9:44	0	0
48	10/20/2011 9:45	0	0
49	10/20/2011 9:46	0	0
50	10/20/2011 9:47	0	0
51	10/20/2011 9:48	0	0
52	10/20/2011 9:49	0	0
53	10/20/2011 9:50	0	0
54	10/20/2011 9:51	0	0
55	10/20/2011 9:52	0	0
56	10/20/2011 9:53	0	0
57	10/20/2011 9:54	0	0
58	10/20/2011 9:55	0	0
59	10/20/2011 9:56	0	0
60	10/20/2011 9:57	0	0
61	10/20/2011 9:58	0	0
62	10/20/2011 9:59	0	0

63	10/20/2011 10:00	0	0
64	10/20/2011 10:01	0	0
65	10/20/2011 10:02	0	0
66	10/20/2011 10:03	0	0
67	10/20/2011 10:04	0	0
68	10/20/2011 10:05	0	0
69	10/20/2011 10:06	0	0
70	10/20/2011 10:07	0	0
71	10/20/2011 10:08	0	0
72	10/20/2011 10:09	0	0
73	10/20/2011 10:10	0	0
74	10/20/2011 10:11	0	0
75	10/20/2011 10:12	0	0
76	10/20/2011 10:13	0	0
77	10/20/2011 10:14	0	0
78	10/20/2011 10:15	0	0
79	10/20/2011 10:16	0	0
80	10/20/2011 10:17	0	0
81	10/20/2011 10:18	0	0
82	10/20/2011 10:19	0	0
83	10/20/2011 10:20	0	0
84	10/20/2011 10:21	0	0
85	10/20/2011 10:22	0	0
86	10/20/2011 10:23	0	0
87	10/20/2011 10:24	0	0
88	10/20/2011 10:25	0	0
89	10/20/2011 10:26	0	0
90	10/20/2011 10:27	0	0
91	10/20/2011 10:28	0	0
92	10/20/2011 10:29	0	0
93	10/20/2011 10:30	0	0
94	10/20/2011 10:31	0	0
95	10/20/2011 10:32	0	0
96	10/20/2011 10:33	0	0
97	10/20/2011 10:34	0	0
98	10/20/2011 10:35	0	0
99	10/20/2011 10:36	0	0
100	10/20/2011 10:37	0	0
101	10/20/2011 10:38	0	0
102	10/20/2011 10:39	0	0
103	10/20/2011 10:40	0	0
104	10/20/2011 10:41	0	0
105	10/20/2011 10:42	0	0
106	10/20/2011 10:43	0	0
107	10/20/2011 10:44	0	0
108	10/20/2011 10:45	0	0
109	10/20/2011 10:46	0	0
110	10/20/2011 10:47	0	0
111	10/20/2011 10:48	0	0
112	10/20/2011 10:49	0	0
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116	10/20/2011 10:53	0	0
117	10/20/2011 10:54	0	0
118	10/20/2011 10:55	0	0
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121	10/20/2011 10:58	0	0
122	10/20/2011 10:59	0	0
123	10/20/2011 11:00	0	0
124	10/20/2011 11:01	0	0
125	10/20/2011 11:02	0	0
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130	10/20/2011 11:07	0	0
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133	10/20/2011 11:10	0	0
134	10/20/2011 11:11	0	0
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136	10/20/2011 11:13	0	0
137	10/20/2011 11:14	0	0
138	10/20/2011 11:15	0	0
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140	10/20/2011 11:17	0	0
141	10/20/2011 11:18	0	0
142	10/20/2011 11:19	0	0
143	10/20/2011 11:20	0	0
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145	10/20/2011 11:22	0	0

146	10/20/2011 11:23	0.009	9
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148	10/20/2011 11:25	0	0
149	10/20/2011 11:26	0	0
150	10/20/2011 11:27	0	0
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164	10/20/2011 11:41	0	0
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166	10/20/2011 11:43	0	0
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190	10/20/2011 12:07	0	0
191	10/20/2011 12:08	0	0
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229	10/20/2011 12:46	0	0
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407	10/20/2011 15:44	0	0
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421	10/20/2011 15:58	0	0
422	10/20/2011 15:59	0	0
423	10/20/2011 16:00	0	0
424	10/20/2011 16:01	0	0
425	10/20/2011 16:02	0.043	43
426	10/20/2011 16:03	0.253	253
427	10/20/2011 16:04	0.438	438
428	10/20/2011 16:05	0.428	428
429	10/20/2011 16:06	0.113	113
430	10/20/2011 16:07	0.179	179
431	10/20/2011 16:08	0.419	419
432	10/20/2011 16:09	0.24	240
433	10/20/2011 16:10	0.074	74
434	10/20/2011 16:11	0.06	60
435	10/20/2011 16:12	0.078	78
436	10/20/2011 16:13	0.18	180
437	10/20/2011 16:14	0.121	121
438	10/20/2011 16:15	0.335	335
439	10/20/2011 16:16	0.511	511
440	10/20/2011 16:17	0.434	434
441	10/20/2011 16:18	0.28	280
442	10/20/2011 16:19	0.196	196
443	10/20/2011 16:20	0.136	136
444	10/20/2011 16:21	0.279	279
445	10/20/2011 16:22	0.361	361
446	10/20/2011 16:23	0.33	330
447	10/20/2011 16:24	0.479	479
448	10/20/2011 16:25	0.311	311
449	10/20/2011 16:26	0.045	45
450	10/20/2011 16:27	0.088	88
451	10/20/2011 16:28	0.214	214
452	10/20/2011 16:29	0.227	227
453	10/20/2011 16:30	0.193	193
454	10/20/2011 16:31	0.032	32
455	10/20/2011 16:32	0.878	878
456	10/20/2011 16:33	2.086	2086
457	10/20/2011 16:34	2.868	2868
458	10/20/2011 16:35	0.494	494
459	10/20/2011 16:36	0.148	148
460	10/20/2011 16:37	0.038	38
461	10/20/2011 16:38	0.116	116
462	10/20/2011 16:39	0.125	125
463	10/20/2011 16:40	0.088	88
464	10/20/2011 16:41	0.063	63
465	10/20/2011 16:42	0.087	87
466	10/20/2011 16:43	0.105	105
467	10/20/2011 16:44	0.198	198
468	10/20/2011 16:45	0.102	102
469	10/20/2011 16:46	0.17	170
470	10/20/2011 16:47	0.149	149
471	10/20/2011 16:48	0.03	30
472	10/20/2011 16:49	2.392	2392
473	10/20/2011 16:50	0.106	106
474	10/20/2011 16:51	0.08	80
475	10/20/2011 16:52	0.091	91
476	10/20/2011 16:53	0.261	261
477	10/20/2011 16:54	0.13	130

478	10/20/2011 16:55	0.114	114
479	10/20/2011 16:56	0.032	32
480	10/20/2011 16:57	0.116	116
481	10/20/2011 16:58	0.115	115
482	10/20/2011 16:59	0.045	45
483	10/20/2011 17:00	0.089	89
484	10/20/2011 17:01	0.071	71
485	10/20/2011 17:02	0.103	103
486	10/20/2011 17:03	0	0
487	10/20/2011 17:04	0	0
488	10/20/2011 17:05	0	0
489	10/20/2011 17:06	0	0
490	10/20/2011 17:07	0	0
491	10/20/2011 17:08	0	0
492	10/20/2011 17:09	0	0
493	10/20/2011 17:10	0	0
494	10/20/2011 17:11	0	0
495	10/20/2011 17:12	0	0
496	10/20/2011 17:13	0	0
497	10/20/2011 17:14	0	0
498	10/20/2011 17:15	0	0
499	10/20/2011 17:16	0	0
500	10/20/2011 17:17	0	0
501	10/20/2011 17:18	0	0
502	10/20/2011 17:19	0	0
503	10/20/2011 17:20	0	0
504	10/20/2011 17:21	0	0
505	10/20/2011 17:22	0	0
506	10/20/2011 17:23	0	0
507	10/20/2011 17:24	0	0
508	10/20/2011 17:25	0	0
509	10/20/2011 17:26	0	0
510	10/20/2011 17:27	0	0
511	10/20/2011 17:28	0	0
512	10/20/2011 17:29	0	0
513	10/20/2011 17:30	0	0
514	10/20/2011 17:31	0	0
515	10/20/2011 17:32	0	0
516	10/20/2011 17:33	0	0
517	10/20/2011 17:34	0	0
518	10/20/2011 17:35	0	0
519	10/20/2011 17:36	0	0
520	10/20/2011 17:37	0	0
521	10/20/2011 17:38	0	0
522	10/20/2011 17:39	0	0
523	10/20/2011 17:40	0	0
524	10/20/2011 17:41	0	0
525	10/20/2011 17:42	0	0
526	10/20/2011 17:43	0	0
527	10/20/2011 17:44	0	0
528	10/20/2011 17:45	0	0
529	10/20/2011 17:46	0	0
530	10/20/2011 17:47	0	0
531	10/20/2011 17:48	0	0
532	10/20/2011 17:49	0	0
533	10/20/2011 17:50	0	0
534	10/20/2011 17:51	0	0
535	10/20/2011 17:52	0	0
536	10/20/2011 17:53	0.001	1
537	10/20/2011 17:54	0	0
538	10/20/2011 17:55	0	0
539	10/20/2011 17:56	0	0
540	10/20/2011 17:57	0	0
541	10/20/2011 17:58	0.002	2
542	10/20/2011 17:59	0	0
543	10/20/2011 18:00	0	0
544	10/20/2011 18:01	0	0
545	10/20/2011 18:02	0	0

==========Event #7 information (end)==========

==========Event #9 information (begin)==========

==========

[Event #9 name:]--[Event #9]2011-10-21 07:33<-->2011-10-21 16:46

[Event start time:]--2011-10-21 07:33:40[Event end time:]--2011-10-21 16:46:40

==========Event #9 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 553 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-21 07:33:00

Drift Value : ---

Low Alarm Levels : 25847

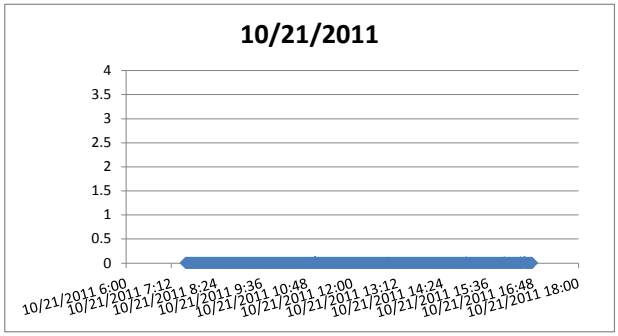
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #9 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/21/2011 7:34	10.198	10198
2	10/21/2011 7:35	0	0
3	10/21/2011 7:36	0	0
4	10/21/2011 7:37	0	0
5	10/21/2011 7:38	0	0
6	10/21/2011 7:39	0	0
7	10/21/2011 7:40	0	0
8	10/21/2011 7:41	0	0
9	10/21/2011 7:42	0	0
10	10/21/2011 7:43	0	0
11	10/21/2011 7:44	0	0
12	10/21/2011 7:45	0	0
13	10/21/2011 7:46	0	0
14	10/21/2011 7:47	0	0
15	10/21/2011 7:48	0	0
16	10/21/2011 7:49	0	0
17	10/21/2011 7:50	0	0
18	10/21/2011 7:51	0	0
19	10/21/2011 7:52	0	0
20	10/21/2011 7:53	0	0
21	10/21/2011 7:54	0	0
22	10/21/2011 7:55	0	0
23	10/21/2011 7:56	0	0
24	10/21/2011 7:57	0	0
25	10/21/2011 7:58	0	0
26	10/21/2011 7:59	0	0
27	10/21/2011 8:00	0	0
28	10/21/2011 8:01	0	0
29	10/21/2011 8:02	0	0
30	10/21/2011 8:03	0	0
31	10/21/2011 8:04	0	0
32	10/21/2011 8:05	0	0
33	10/21/2011 8:06	0	0
34	10/21/2011 8:07	0	0
35	10/21/2011 8:08	0	0
36	10/21/2011 8:09	0	0
37	10/21/2011 8:10	0	0
38	10/21/2011 8:11	0	0
39	10/21/2011 8:12	0	0
40	10/21/2011 8:13	0	0
41	10/21/2011 8:14	0	0
42	10/21/2011 8:15	0	0
43	10/21/2011 8:16	0	0
44	10/21/2011 8:17	0	0
45	10/21/2011 8:18	0	0
46	10/21/2011 8:19	0	0
47	10/21/2011 8:20	0	0
48	10/21/2011 8:21	0	0
49	10/21/2011 8:22	0	0
50	10/21/2011 8:23	0	0
51	10/21/2011 8:24	0	0
52	10/21/2011 8:25	0	0
53	10/21/2011 8:26	0	0
54	10/21/2011 8:27	0	0
55	10/21/2011 8:28	0	0
56	10/21/2011 8:29	0	0
57	10/21/2011 8:30	0	0
58	10/21/2011 8:31	0	0
59	10/21/2011 8:32	0	0

60	10/21/2011 8:33	0	0
61	10/21/2011 8:34	0	0
62	10/21/2011 8:35	0	0
63	10/21/2011 8:36	0	0
64	10/21/2011 8:37	0	0
65	10/21/2011 8:38	0	0
66	10/21/2011 8:39	0	0
67	10/21/2011 8:40	0	0
68	10/21/2011 8:41	0	0
69	10/21/2011 8:42	0	0
70	10/21/2011 8:43	0	0
71	10/21/2011 8:44	0	0
72	10/21/2011 8:45	0	0
73	10/21/2011 8:46	0	0
74	10/21/2011 8:47	0	0
75	10/21/2011 8:48	0	0
76	10/21/2011 8:49	0	0
77	10/21/2011 8:50	0	0
78	10/21/2011 8:51	0	0
79	10/21/2011 8:52	0	0
80	10/21/2011 8:53	0	0
81	10/21/2011 8:54	0	0
82	10/21/2011 8:55	0	0
83	10/21/2011 8:56	0	0
84	10/21/2011 8:57	0	0
85	10/21/2011 8:58	0	0
86	10/21/2011 8:59	0	0
87	10/21/2011 9:00	0	0
88	10/21/2011 9:01	0	0
89	10/21/2011 9:02	0	0
90	10/21/2011 9:03	0	0
91	10/21/2011 9:04	0	0
92	10/21/2011 9:05	0	0
93	10/21/2011 9:06	0	0
94	10/21/2011 9:07	0	0
95	10/21/2011 9:08	0	0
96	10/21/2011 9:09	0	0
97	10/21/2011 9:10	0	0
98	10/21/2011 9:11	0	0
99	10/21/2011 9:12	0	0
100	10/21/2011 9:13	0	0
101	10/21/2011 9:14	0	0
102	10/21/2011 9:15	0	0
103	10/21/2011 9:16	0	0
104	10/21/2011 9:17	0	0
105	10/21/2011 9:18	0	0
106	10/21/2011 9:19	0	0
107	10/21/2011 9:20	0	0
108	10/21/2011 9:21	0	0
109	10/21/2011 9:22	0	0
110	10/21/2011 9:23	0	0
111	10/21/2011 9:24	0	0
112	10/21/2011 9:25	0	0
113	10/21/2011 9:26	0	0
114	10/21/2011 9:27	0	0
115	10/21/2011 9:28	0	0
116	10/21/2011 9:29	0	0
117	10/21/2011 9:30	0	0
118	10/21/2011 9:31	0	0
119	10/21/2011 9:32	0	0
120	10/21/2011 9:33	0	0
121	10/21/2011 9:34	0	0
122	10/21/2011 9:35	0	0
123	10/21/2011 9:36	0	0
124	10/21/2011 9:37	0	0
125	10/21/2011 9:38	0	0
126	10/21/2011 9:39	0	0
127	10/21/2011 9:40	0	0
128	10/21/2011 9:41	0	0
129	10/21/2011 9:42	0	0
130	10/21/2011 9:43	0	0
131	10/21/2011 9:44	0	0
132	10/21/2011 9:45	0	0
133	10/21/2011 9:46	0	0
134	10/21/2011 9:47	0	0
135	10/21/2011 9:48	0	0
136	10/21/2011 9:49	0	0
137	10/21/2011 9:50	0	0
138	10/21/2011 9:51	0	0
139	10/21/2011 9:52	0	0

140	10/21/2011 9:53	0	0
141	10/21/2011 9:54	0	0
142	10/21/2011 9:55	0	0
143	10/21/2011 9:56	0	0
144	10/21/2011 9:57	0	0
145	10/21/2011 9:58	0	0
146	10/21/2011 9:59	0	0
147	10/21/2011 10:00	0	0
148	10/21/2011 10:01	0	0
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152	10/21/2011 10:05	0	0
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154	10/21/2011 10:07	0	0
155	10/21/2011 10:08	0	0
156	10/21/2011 10:09	0	0
157	10/21/2011 10:10	0	0
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159	10/21/2011 10:12	0	0
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161	10/21/2011 10:14	0	0
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166	10/21/2011 10:19	0	0
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177	10/21/2011 10:30	0	0
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185	10/21/2011 10:38	0	0
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205	10/21/2011 10:58	0	0
206	10/21/2011 10:59	0	0
207	10/21/2011 11:00	0	0
208	10/21/2011 11:01	0.021	21
209	10/21/2011 11:02	0	0
210	10/21/2011 11:03	0	0
211	10/21/2011 11:04	0	0
212	10/21/2011 11:05	0	0
213	10/21/2011 11:06	0	0
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215	10/21/2011 11:08	0	0
216	10/21/2011 11:09	0	0
217	10/21/2011 11:10	0	0
218	10/21/2011 11:11	0	0
219	10/21/2011 11:12	0	0

220	10/21/2011 11:13	0	0
221	10/21/2011 11:14	0	0
222	10/21/2011 11:15	0	0
223	10/21/2011 11:16	0	0
224	10/21/2011 11:17	0	0
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226	10/21/2011 11:19	0	0
227	10/21/2011 11:20	0	0
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248	10/21/2011 11:41	0	0
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252	10/21/2011 11:45	0	0
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255	10/21/2011 11:48	0	0
256	10/21/2011 11:49	0	0
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278	10/21/2011 12:11	0	0
279	10/21/2011 12:12	0	0
280	10/21/2011 12:13	0	0
281	10/21/2011 12:14	0	0
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293	10/21/2011 12:26	0	0
294	10/21/2011 12:27	0	0
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297	10/21/2011 12:30	0	0
298	10/21/2011 12:31	0	0
299	10/21/2011 12:32	0	0

300	10/21/2011 12:33	0	0
301	10/21/2011 12:34	0	0
302	10/21/2011 12:35	0	0
303	10/21/2011 12:36	0	0
304	10/21/2011 12:37	0	0
305	10/21/2011 12:38	0	0
306	10/21/2011 12:39	0	0
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314	10/21/2011 12:47	0	0
315	10/21/2011 12:48	0	0
316	10/21/2011 12:49	0	0
317	10/21/2011 12:50	0	0
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321	10/21/2011 12:54	0	0
322	10/21/2011 12:55	0	0
323	10/21/2011 12:56	0	0
324	10/21/2011 12:57	0.007	7
325	10/21/2011 12:58	0	0
326	10/21/2011 12:59	0	0
327	10/21/2011 13:00	0	0
328	10/21/2011 13:01	0	0
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331	10/21/2011 13:04	0	0
332	10/21/2011 13:05	0	0
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335	10/21/2011 13:08	0	0
336	10/21/2011 13:09	0	0
337	10/21/2011 13:10	0	0
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339	10/21/2011 13:12	0	0
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345	10/21/2011 13:18	0	0
346	10/21/2011 13:19	0	0
347	10/21/2011 13:20	0	0
348	10/21/2011 13:21	0	0
349	10/21/2011 13:22	0	0
350	10/21/2011 13:23	0	0
351	10/21/2011 13:24	0	0
352	10/21/2011 13:25	0	0
353	10/21/2011 13:26	0	0
354	10/21/2011 13:27	0	0
355	10/21/2011 13:28	0	0
356	10/21/2011 13:29	0	0
357	10/21/2011 13:30	0	0
358	10/21/2011 13:31	0	0
359	10/21/2011 13:32	0	0
360	10/21/2011 13:33	0	0
361	10/21/2011 13:34	0	0
362	10/21/2011 13:35	0	0
363	10/21/2011 13:36	0	0
364	10/21/2011 13:37	0	0
365	10/21/2011 13:38	0	0
366	10/21/2011 13:39	0	0
367	10/21/2011 13:40	0	0
368	10/21/2011 13:41	0	0
369	10/21/2011 13:42	0	0
370	10/21/2011 13:43	0	0
371	10/21/2011 13:44	0	0
372	10/21/2011 13:45	0	0
373	10/21/2011 13:46	0	0
374	10/21/2011 13:47	0	0
375	10/21/2011 13:48	0	0
376	10/21/2011 13:49	0	0
377	10/21/2011 13:50	0	0
378	10/21/2011 13:51	0	0
379	10/21/2011 13:52	0	0

380	10/21/2011 13:53	0	0
381	10/21/2011 13:54	0	0
382	10/21/2011 13:55	0	0
383	10/21/2011 13:56	0	0
384	10/21/2011 13:57	0	0
385	10/21/2011 13:58	0	0
386	10/21/2011 13:59	0	0
387	10/21/2011 14:00	0	0
388	10/21/2011 14:01	0	0
389	10/21/2011 14:02	0	0
390	10/21/2011 14:03	0	0
391	10/21/2011 14:04	0	0
392	10/21/2011 14:05	0	0
393	10/21/2011 14:06	0	0
394	10/21/2011 14:07	0	0
395	10/21/2011 14:08	0	0
396	10/21/2011 14:09	0	0
397	10/21/2011 14:10	0	0
398	10/21/2011 14:11	0	0
399	10/21/2011 14:12	0	0
400	10/21/2011 14:13	0	0
401	10/21/2011 14:14	0	0
402	10/21/2011 14:15	0	0
403	10/21/2011 14:16	0	0
404	10/21/2011 14:17	0	0
405	10/21/2011 14:18	0	0
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407	10/21/2011 14:20	0	0
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433	10/21/2011 14:46	0	0
434	10/21/2011 14:47	0	0
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436	10/21/2011 14:49	0	0
437	10/21/2011 14:50	0	0
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442	10/21/2011 14:55	0	0
443	10/21/2011 14:56	0	0
444	10/21/2011 14:57	0	0
445	10/21/2011 14:58	0	0
446	10/21/2011 14:59	0	0
447	10/21/2011 15:00	0	0
448	10/21/2011 15:01	0.008	8
449	10/21/2011 15:02	0	0
450	10/21/2011 15:03	0	0
451	10/21/2011 15:04	0	0
452	10/21/2011 15:05	0	0
453	10/21/2011 15:06	0	0
454	10/21/2011 15:07	0	0
455	10/21/2011 15:08	0	0
456	10/21/2011 15:09	0	0
457	10/21/2011 15:10	0	0
458	10/21/2011 15:11	0	0
459	10/21/2011 15:12	0	0

460	10/21/2011 15:13	0	0
461	10/21/2011 15:14	0	0
462	10/21/2011 15:15	0	0
463	10/21/2011 15:16	0	0
464	10/21/2011 15:17	0	0
465	10/21/2011 15:18	0	0
466	10/21/2011 15:19	0	0
467	10/21/2011 15:20	0	0
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470	10/21/2011 15:23	0	0
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474	10/21/2011 15:27	0	0
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477	10/21/2011 15:30	0	0
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484	10/21/2011 15:37	0	0
485	10/21/2011 15:38	0	0
486	10/21/2011 15:39	0	0
487	10/21/2011 15:40	0	0
488	10/21/2011 15:41	0	0
489	10/21/2011 15:42	0	0
490	10/21/2011 15:43	0	0
491	10/21/2011 15:44	0	0
492	10/21/2011 15:45	0	0
493	10/21/2011 15:46	0	0
494	10/21/2011 15:47	0	0
495	10/21/2011 15:48	0	0
496	10/21/2011 15:49	0	0
497	10/21/2011 15:50	0	0
498	10/21/2011 15:51	0	0
499	10/21/2011 15:52	0	0
500	10/21/2011 15:53	0	0
501	10/21/2011 15:54	0	0
502	10/21/2011 15:55	0	0
503	10/21/2011 15:56	0	0
504	10/21/2011 15:57	0	0
505	10/21/2011 15:58	0	0
506	10/21/2011 15:59	0	0
507	10/21/2011 16:00	0	0
508	10/21/2011 16:01	0	0
509	10/21/2011 16:02	0.008	8
510	10/21/2011 16:03	0	0
511	10/21/2011 16:04	0	0
512	10/21/2011 16:05	0	0
513	10/21/2011 16:06	0	0
514	10/21/2011 16:07	0	0
515	10/21/2011 16:08	0.001	1
516	10/21/2011 16:09	0	0
517	10/21/2011 16:10	0	0
518	10/21/2011 16:11	0	0
519	10/21/2011 16:12	0	0
520	10/21/2011 16:13	0	0
521	10/21/2011 16:14	0	0
522	10/21/2011 16:15	0	0
523	10/21/2011 16:16	0	0
524	10/21/2011 16:17	0	0
525	10/21/2011 16:18	0	0
526	10/21/2011 16:19	0	0
527	10/21/2011 16:20	0	0
528	10/21/2011 16:21	0	0
529	10/21/2011 16:22	0	0
530	10/21/2011 16:23	0	0
531	10/21/2011 16:24	0	0
532	10/21/2011 16:25	0	0
533	10/21/2011 16:26	0	0
534	10/21/2011 16:27	0	0
535	10/21/2011 16:28	0.008	8
536	10/21/2011 16:29	0	0
537	10/21/2011 16:30	0	0
538	10/21/2011 16:31	0	0
539	10/21/2011 16:32	0	0

540	10/21/2011 16:33	0	0
541	10/21/2011 16:34	0.016	16
542	10/21/2011 16:35	0.006	6
543	10/21/2011 16:36	0	0
544	10/21/2011 16:37	0	0
545	10/21/2011 16:38	0	0
546	10/21/2011 16:39	0	0
547	10/21/2011 16:40	0	0
548	10/21/2011 16:41	0	0
549	10/21/2011 16:42	0	0
550	10/21/2011 16:43	0	0
551	10/21/2011 16:44	0	0
552	10/21/2011 16:45	0	0
553	10/21/2011 16:46	0	0

==========Event #9 information (end)==========

=========Event #11 information (begin)=========

[Event #11 name:]--[Event #11]2011-10-22 07:37<-->2011-10-22 19:18

[Event start time:]--2011-10-22 07:37:55[Event end time:]--2011-10-22 19:18:55

===========Event #11 head information===========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 701 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-22 07:37:00

Drift Value : ---

Low Alarm Levels : 25847

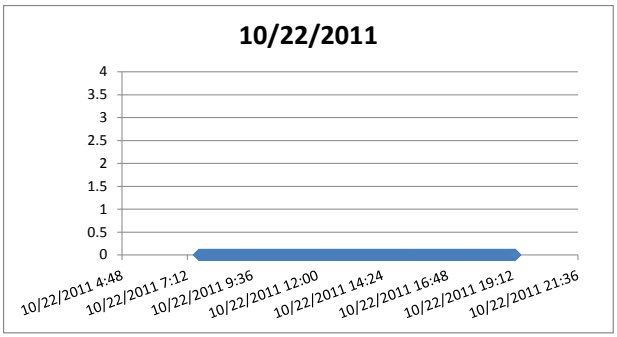
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #11 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/22/2011 7:38	0	0
2	10/22/2011 7:39	0	0
3	10/22/2011 7:40	12.19	12190
4	10/22/2011 7:41	0	0
5	10/22/2011 7:42	0	0
6	10/22/2011 7:43	0	0
7	10/22/2011 7:44	0	0
8	10/22/2011 7:45	0	0
9	10/22/2011 7:46	0	0
10	10/22/2011 7:47	0	0
11	10/22/2011 7:48	0	0
12	10/22/2011 7:49	0	0
13	10/22/2011 7:50	0	0
14	10/22/2011 7:51	0	0
15	10/22/2011 7:52	0	0
16	10/22/2011 7:53	0	0
17	10/22/2011 7:54	0	0
18	10/22/2011 7:55	0	0
19	10/22/2011 7:56	0	0
20	10/22/2011 7:57	0	0
21	10/22/2011 7:58	0	0
22	10/22/2011 7:59	0	0
23	10/22/2011 8:00	0	0
24	10/22/2011 8:01	0	0
25	10/22/2011 8:02	0	0
26	10/22/2011 8:03	0	0
27	10/22/2011 8:04	0	0
28	10/22/2011 8:05	0	0
29	10/22/2011 8:06	0	0
30	10/22/2011 8:07	0	0
31	10/22/2011 8:08	0	0
32	10/22/2011 8:09	0	0
33	10/22/2011 8:10	0	0
34	10/22/2011 8:11	0	0
35	10/22/2011 8:12	0	0
36	10/22/2011 8:13	0	0
37	10/22/2011 8:14	0	0
38	10/22/2011 8:15	0	0
39	10/22/2011 8:16	0	0
40	10/22/2011 8:17	0	0
41	10/22/2011 8:18	0	0
42	10/22/2011 8:19	0	0
43	10/22/2011 8:20	0	0
44	10/22/2011 8:21	0	0
45	10/22/2011 8:22	0	0
46	10/22/2011 8:23	0	0
47	10/22/2011 8:24	0	0
48	10/22/2011 8:25	0	0
49	10/22/2011 8:26	0	0
50	10/22/2011 8:27	0	0
51	10/22/2011 8:28	0	0
52	10/22/2011 8:29	0	0
53	10/22/2011 8:30	0	0
54	10/22/2011 8:31	0	0
55	10/22/2011 8:32	0	0
56	10/22/2011 8:33	0	0
57	10/22/2011 8:34	0	0
58	10/22/2011 8:35	0	0
59	10/22/2011 8:36	0	0

60	10/22/2011 8:37	0	0
61	10/22/2011 8:38	0	0
62	10/22/2011 8:39	0	0
63	10/22/2011 8:40	0	0
64	10/22/2011 8:41	0	0
65	10/22/2011 8:42	0	0
66	10/22/2011 8:43	0	0
67	10/22/2011 8:44	0	0
68	10/22/2011 8:45	0	0
69	10/22/2011 8:46	0	0
70	10/22/2011 8:47	0	0
71	10/22/2011 8:48	0	0
72	10/22/2011 8:49	0	0
73	10/22/2011 8:50	0	0
74	10/22/2011 8:51	0	0
75	10/22/2011 8:52	0	0
76	10/22/2011 8:53	0	0
77	10/22/2011 8:54	0	0
78	10/22/2011 8:55	0	0
79	10/22/2011 8:56	0	0
80	10/22/2011 8:57	0	0
81	10/22/2011 8:58	0	0
82	10/22/2011 8:59	0	0
83	10/22/2011 9:00	0	0
84	10/22/2011 9:01	0	0
85	10/22/2011 9:02	0	0
86	10/22/2011 9:03	0	0
87	10/22/2011 9:04	0	0
88	10/22/2011 9:05	0	0
89	10/22/2011 9:06	0	0
90	10/22/2011 9:07	0	0
91	10/22/2011 9:08	0	0
92	10/22/2011 9:09	0	0
93	10/22/2011 9:10	0	0
94	10/22/2011 9:11	0	0
95	10/22/2011 9:12	0	0
96	10/22/2011 9:13	0	0
97	10/22/2011 9:14	0	0
98	10/22/2011 9:15	0	0
99	10/22/2011 9:16	0	0
100	10/22/2011 9:17	0	0
101	10/22/2011 9:18	0	0
102	10/22/2011 9:19	0	0
103	10/22/2011 9:20	0	0
104	10/22/2011 9:21	0	0
105	10/22/2011 9:22	0	0
106	10/22/2011 9:23	0	0
107	10/22/2011 9:24	0	0
108	10/22/2011 9:25	0	0
109	10/22/2011 9:26	0	0
110	10/22/2011 9:27	0	0
111	10/22/2011 9:28	0	0
112	10/22/2011 9:29	0	0
113	10/22/2011 9:30	0	0
114	10/22/2011 9:31	0	0
115	10/22/2011 9:32	0	0
116	10/22/2011 9:33	0	0
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121	10/22/2011 9:38	0	0
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125	10/22/2011 9:42	0	0
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136	10/22/2011 9:53	0	0
137	10/22/2011 9:54	0	0
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280	10/22/2011 12:17	0	0
281	10/22/2011 12:18	0	0
282	10/22/2011 12:19	0	0
283	10/22/2011 12:20	0	0
284	10/22/2011 12:21	0	0
285	10/22/2011 12:22	0	0
286	10/22/2011 12:23	0	0
287	10/22/2011 12:24	0	0
288	10/22/2011 12:25	0	0
289	10/22/2011 12:26	0	0
290	10/22/2011 12:27	0	0
291	10/22/2011 12:28	0	0
292	10/22/2011 12:29	0	0
293	10/22/2011 12:30	0	0
294	10/22/2011 12:31	0	0
295	10/22/2011 12:32	0	0
296	10/22/2011 12:33	0	0
297	10/22/2011 12:34	0	0
298	10/22/2011 12:35	0	0
299	10/22/2011 12:36	0	0

300	10/22/2011 12:37	0	0
301	10/22/2011 12:38	0	0
302	10/22/2011 12:39	0	0
303	10/22/2011 12:40	0	0
304	10/22/2011 12:41	0	0
305	10/22/2011 12:42	0	0
306	10/22/2011 12:43	0	0
307	10/22/2011 12:44	0	0
308	10/22/2011 12:45	0	0
309	10/22/2011 12:46	0	0
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311	10/22/2011 12:48	0	0
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315	10/22/2011 12:52	0	0
316	10/22/2011 12:53	0	0
317	10/22/2011 12:54	0	0
318	10/22/2011 12:55	0	0
319	10/22/2011 12:56	0	0
320	10/22/2011 12:57	0	0
321	10/22/2011 12:58	0	0
322	10/22/2011 12:59	0	0
323	10/22/2011 13:00	0	0
324	10/22/2011 13:01	0	0
325	10/22/2011 13:02	0	0
326	10/22/2011 13:03	0	0
327	10/22/2011 13:04	0	0
328	10/22/2011 13:05	0	0
329	10/22/2011 13:06	0	0
330	10/22/2011 13:07	0	0
331	10/22/2011 13:08	0	0
332	10/22/2011 13:09	0	0
333	10/22/2011 13:10	0	0
334	10/22/2011 13:11	0	0
335	10/22/2011 13:12	0	0
336	10/22/2011 13:13	0	0
337	10/22/2011 13:14	0	0
338	10/22/2011 13:15	0	0
339	10/22/2011 13:16	0	0
340	10/22/2011 13:17	0	0
341	10/22/2011 13:18	0	0
342	10/22/2011 13:19	0	0
343	10/22/2011 13:20	0	0
344	10/22/2011 13:21	0	0
345	10/22/2011 13:22	0	0
346	10/22/2011 13:23	0	0
347	10/22/2011 13:24	0	0
348	10/22/2011 13:25	0	0
349	10/22/2011 13:26	0	0
350	10/22/2011 13:27	0	0
351	10/22/2011 13:28	0	0
352	10/22/2011 13:29	0	0
353	10/22/2011 13:30	0	0
354	10/22/2011 13:31	0	0
355	10/22/2011 13:32	0	0
356	10/22/2011 13:33	0	0
357	10/22/2011 13:34	0	0
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360	10/22/2011 13:37	0	0
361	10/22/2011 13:38	0	0
362	10/22/2011 13:39	0	0
363	10/22/2011 13:40	0	0
364	10/22/2011 13:41	0	0
365	10/22/2011 13:42	0	0
366	10/22/2011 13:43	0	0
367	10/22/2011 13:44	0	0
368	10/22/2011 13:45	0	0
369	10/22/2011 13:46	0	0
370	10/22/2011 13:47	0	0
371	10/22/2011 13:48	0	0
372	10/22/2011 13:49	0	0
373	10/22/2011 13:50	0	0
374	10/22/2011 13:51	0	0
375	10/22/2011 13:52	0	0
376	10/22/2011 13:53	0	0
377	10/22/2011 13:54	0	0
378	10/22/2011 13:55	0	0
379	10/22/2011 13:56	0	0

380	10/22/2011 13:57	0	0
381	10/22/2011 13:58	0	0
382	10/22/2011 13:59	0	0
383	10/22/2011 14:00	0	0
384	10/22/2011 14:01	0	0
385	10/22/2011 14:02	0	0
386	10/22/2011 14:03	0	0
387	10/22/2011 14:04	0	0
388	10/22/2011 14:05	0	0
389	10/22/2011 14:06	0	0
390	10/22/2011 14:07	0	0
391	10/22/2011 14:08	0	0
392	10/22/2011 14:09	0	0
393	10/22/2011 14:10	0	0
394	10/22/2011 14:11	0	0
395	10/22/2011 14:12	0	0
396	10/22/2011 14:13	0	0
397	10/22/2011 14:14	0	0
398	10/22/2011 14:15	0	0
399	10/22/2011 14:16	0	0
400	10/22/2011 14:17	0	0
401	10/22/2011 14:18	0	0
402	10/22/2011 14:19	0	0
403	10/22/2011 14:20	0	0
404	10/22/2011 14:21	0	0
405	10/22/2011 14:22	0	0
406	10/22/2011 14:23	0	0
407	10/22/2011 14:24	0	0
408	10/22/2011 14:25	0	0
409	10/22/2011 14:26	0	0
410	10/22/2011 14:27	0	0
411	10/22/2011 14:28	0	0
412	10/22/2011 14:29	0	0
413	10/22/2011 14:30	0	0
414	10/22/2011 14:31	0	0
415	10/22/2011 14:32	0	0
416	10/22/2011 14:33	0	0
417	10/22/2011 14:34	0	0
418	10/22/2011 14:35	0	0
419	10/22/2011 14:36	0	0
420	10/22/2011 14:37	0	0
421	10/22/2011 14:38	0	0
422	10/22/2011 14:39	0	0
423	10/22/2011 14:40	0	0
424	10/22/2011 14:41	0	0
425	10/22/2011 14:42	0	0
426	10/22/2011 14:43	0	0
427	10/22/2011 14:44	0	0
428	10/22/2011 14:45	0	0
429	10/22/2011 14:46	0	0
430	10/22/2011 14:47	0	0
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433	10/22/2011 14:50	0	0
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441	10/22/2011 14:58	0	0
442	10/22/2011 14:59	0	0
443	10/22/2011 15:00	0	0
444	10/22/2011 15:01	0	0
445	10/22/2011 15:02	0	0
446	10/22/2011 15:03	0	0
447	10/22/2011 15:04	0	0
448	10/22/2011 15:05	0	0
449	10/22/2011 15:06	0	0
450	10/22/2011 15:07	0	0
451	10/22/2011 15:08	0	0
452	10/22/2011 15:09	0	0
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455	10/22/2011 15:12	0	0
456	10/22/2011 15:13	0	0
457	10/22/2011 15:14	0	0
458	10/22/2011 15:15	0	0
459	10/22/2011 15:16	0	0

460	10/22/2011 15:17	0	0
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463	10/22/2011 15:20	0	0
464	10/22/2011 15:21	0	0
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466	10/22/2011 15:23	0	0
467	10/22/2011 15:24	0	0
468	10/22/2011 15:25	0	0
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470	10/22/2011 15:27	0	0
471	10/22/2011 15:28	0	0
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473	10/22/2011 15:30	0	0
474	10/22/2011 15:31	0	0
475	10/22/2011 15:32	0	0
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477	10/22/2011 15:34	0	0
478	10/22/2011 15:35	0	0
479	10/22/2011 15:36	0	0
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481	10/22/2011 15:38	0	0
482	10/22/2011 15:39	0	0
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484	10/22/2011 15:41	0	0
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486	10/22/2011 15:43	0	0
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488	10/22/2011 15:45	0	0
489	10/22/2011 15:46	0	0
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491	10/22/2011 15:48	0	0
492	10/22/2011 15:49	0	0
493	10/22/2011 15:50	0	0
494	10/22/2011 15:51	0	0
495	10/22/2011 15:52	0	0
496	10/22/2011 15:53	0	0
497	10/22/2011 15:54	0	0
498	10/22/2011 15:55	0	0
499	10/22/2011 15:56	0	0
500	10/22/2011 15:57	0	0
501	10/22/2011 15:58	0	0
502	10/22/2011 15:59	0	0
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506	10/22/2011 16:03	0	0
507	10/22/2011 16:04	0	0
508	10/22/2011 16:05	0	0
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511	10/22/2011 16:08	0	0
512	10/22/2011 16:09	0	0
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514	10/22/2011 16:11	0	0
515	10/22/2011 16:12	0	0
516	10/22/2011 16:13	0	0
517	10/22/2011 16:14	0	0
518	10/22/2011 16:15	0	0
519	10/22/2011 16:16	0	0
520	10/22/2011 16:17	0	0
521	10/22/2011 16:18	0	0
522	10/22/2011 16:19	0	0
523	10/22/2011 16:20	0	0
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526	10/22/2011 16:23	0	0
527	10/22/2011 16:24	0	0
528	10/22/2011 16:25	0	0
529	10/22/2011 16:26	0	0
530	10/22/2011 16:27	0	0
531	10/22/2011 16:28	0	0
532	10/22/2011 16:29	0	0
533	10/22/2011 16:30	0	0
534	10/22/2011 16:31	0	0
535	10/22/2011 16:32	0	0
536	10/22/2011 16:33	0	0
537	10/22/2011 16:34	0	0
538	10/22/2011 16:35	0	0
539	10/22/2011 16:36	0	0

540	10/22/2011 16:37	0	0
541	10/22/2011 16:38	0	0
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543	10/22/2011 16:40	0	0
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549	10/22/2011 16:46	0	0
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555	10/22/2011 16:52	0	0
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560	10/22/2011 16:57	0	0
561	10/22/2011 16:58	0	0
562	10/22/2011 16:59	0	0
563	10/22/2011 17:00	0	0
564	10/22/2011 17:01	0	0
565	10/22/2011 17:02	0	0
566	10/22/2011 17:03	0	0
567	10/22/2011 17:04	0	0
568	10/22/2011 17:05	0	0
569	10/22/2011 17:06	0	0
570	10/22/2011 17:07	0	0
571	10/22/2011 17:08	0	0
572	10/22/2011 17:09	0	0
573	10/22/2011 17:10	0	0
574	10/22/2011 17:11	0	0
575	10/22/2011 17:12	0	0
576	10/22/2011 17:13	0	0
577	10/22/2011 17:14	0	0
578	10/22/2011 17:15	0	0
579	10/22/2011 17:16	0	0
580	10/22/2011 17:17	0	0
581	10/22/2011 17:18	0	0
582	10/22/2011 17:19	0	0
583	10/22/2011 17:20	0	0
584	10/22/2011 17:21	0	0
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606	10/22/2011 17:43	0	0
607	10/22/2011 17:44	0	0
608	10/22/2011 17:45	0	0
609	10/22/2011 17:46	0	0
610	10/22/2011 17:47	0	0
611	10/22/2011 17:48	0	0
612	10/22/2011 17:49	0	0
613	10/22/2011 17:50	0	0
614	10/22/2011 17:51	0	0
615	10/22/2011 17:52	0	0
616	10/22/2011 17:53	0	0
617	10/22/2011 17:54	0	0
618	10/22/2011 17:55	0	0
619	10/22/2011 17:56	0	0

620	10/22/2011 17:57	0	0
621	10/22/2011 17:58	0	0
622	10/22/2011 17:59	0	0
623	10/22/2011 18:00	0	0
624	10/22/2011 18:01	0	0
625	10/22/2011 18:02	0	0
626	10/22/2011 18:03	0	0
627	10/22/2011 18:04	0	0
628	10/22/2011 18:05	0	0
629	10/22/2011 18:06	0	0
630	10/22/2011 18:07	0	0
631	10/22/2011 18:08	0	0
632	10/22/2011 18:09	0	0
633	10/22/2011 18:10	0	0
634	10/22/2011 18:11	0	0
635	10/22/2011 18:12	0	0
636	10/22/2011 18:13	0	0
637	10/22/2011 18:14	0	0
638	10/22/2011 18:15	0	0
639	10/22/2011 18:16	0	0
640	10/22/2011 18:17	0	0
641	10/22/2011 18:18	0	0
642	10/22/2011 18:19	0	0
643	10/22/2011 18:20	0	0
644	10/22/2011 18:21	0	0
645	10/22/2011 18:22	0	0
646	10/22/2011 18:23	0	0
647	10/22/2011 18:24	0	0
648	10/22/2011 18:25	0	0
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650	10/22/2011 18:27	0	0
651	10/22/2011 18:28	0	0
652	10/22/2011 18:29	0	0
653	10/22/2011 18:30	0	0
654	10/22/2011 18:31	0	0
655	10/22/2011 18:32	0	0
656	10/22/2011 18:33	0	0
657	10/22/2011 18:34	0	0
658	10/22/2011 18:35	0	0
659	10/22/2011 18:36	0	0
660	10/22/2011 18:37	0	0
661	10/22/2011 18:38	0	0
662	10/22/2011 18:39	0	0
663	10/22/2011 18:40	0	0
664	10/22/2011 18:41	0	0
665	10/22/2011 18:42	0	0
666	10/22/2011 18:43	0	0
667	10/22/2011 18:44	0	0
668	10/22/2011 18:45	0	0
669	10/22/2011 18:46	0	0
670	10/22/2011 18:47	0	0
671	10/22/2011 18:48	0	0
672	10/22/2011 18:49	0	0
673	10/22/2011 18:50	0	0
674	10/22/2011 18:51	0	0
675	10/22/2011 18:52	0	0
676	10/22/2011 18:53	0	0
677	10/22/2011 18:54	0	0
678	10/22/2011 18:55	0	0
679	10/22/2011 18:56	0	0
680	10/22/2011 18:57	0	0
681	10/22/2011 18:58	0	0
682	10/22/2011 18:59	0	0
683	10/22/2011 19:00	0	0
684	10/22/2011 19:01	0	0
685	10/22/2011 19:02	0	0
686	10/22/2011 19:03	0	0
687	10/22/2011 19:04	0	0
688	10/22/2011 19:05	0	0
689	10/22/2011 19:06	0	0
690	10/22/2011 19:07	0	0
691	10/22/2011 19:08	0	0
692	10/22/2011 19:09	0	0
693	10/22/2011 19:10	0	0
694	10/22/2011 19:11	0	0
695	10/22/2011 19:12	0	0
696	10/22/2011 19:13	0	0
697	10/22/2011 19:14	0	0
698	10/22/2011 19:15	0	0
699	10/22/2011 19:16	0	0

700	10/22/2011 19:17	0	0
701	10/22/2011 19:18	0	0

==========Event #11 information (end)==========

=========Event #14 information (begin)=========

[Event #14 name:]--[Event #14]2011-10-23 10:00<-->2011-10-23 16:34

[Event start time:]--2011-10-23 10:00:03[Event end time:]--2011-10-23 16:34:03

==========Event #14 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 394 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-23 07:50:00

Drift Value : ---

Low Alarm Levels : 25847

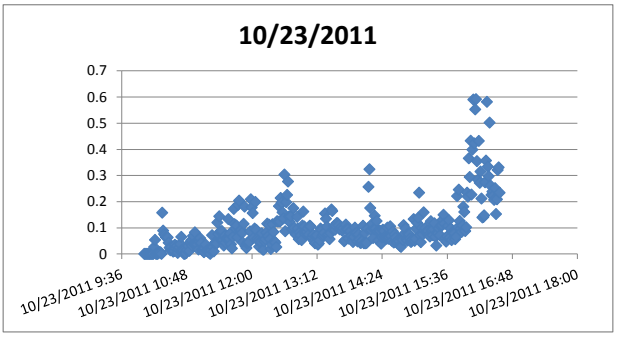
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #14 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/23/2011 10:01	0	0
2	10/23/2011 10:02	0	0
3	10/23/2011 10:03	0	0
4	10/23/2011 10:04	0	0
5	10/23/2011 10:05	0	0
6	10/23/2011 10:06	0	0
7	10/23/2011 10:07	0	0
8	10/23/2011 10:08	0	0
9	10/23/2011 10:09	0	0
10	10/23/2011 10:10	0	0
11	10/23/2011 10:11	0	0
12	10/23/2011 10:12	0.026	26
13	10/23/2011 10:13	0.054	54
14	10/23/2011 10:14	0	0
15	10/23/2011 10:15	0	0
16	10/23/2011 10:16	0	0
17	10/23/2011 10:17	0.004	4
18	10/23/2011 10:18	0.007	7
19	10/23/2011 10:19	0.006	6
20	10/23/2011 10:20	0	0
21	10/23/2011 10:21	0.158	158
22	10/23/2011 10:22	0.089	89
23	10/23/2011 10:23	0.076	76
24	10/23/2011 10:24	0.071	71
25	10/23/2011 10:25	0.064	64
26	10/23/2011 10:26	0.063	63
27	10/23/2011 10:27	0.063	63
28	10/23/2011 10:28	0.043	43
29	10/23/2011 10:29	0.024	24
30	10/23/2011 10:30	0.014	14
31	10/23/2011 10:31	0.026	26
32	10/23/2011 10:32	0.015	15
33	10/23/2011 10:33	0.009	9
34	10/23/2011 10:34	0.011	11
35	10/23/2011 10:35	0.035	35
36	10/23/2011 10:36	0.022	22
37	10/23/2011 10:37	0.031	31
38	10/23/2011 10:38	0.004	4
39	10/23/2011 10:39	0.018	18
40	10/23/2011 10:40	0.025	25
41	10/23/2011 10:41	0.038	38
42	10/23/2011 10:42	0.065	65
43	10/23/2011 10:43	0.016	16
44	10/23/2011 10:44	0.011	11
45	10/23/2011 10:45	0	0
46	10/23/2011 10:46	0	0
47	10/23/2011 10:47	0.003	3
48	10/23/2011 10:48	0.015	15
49	10/23/2011 10:49	0.034	34
50	10/23/2011 10:50	0.031	31
51	10/23/2011 10:51	0.012	12
52	10/23/2011 10:52	0.044	44
53	10/23/2011 10:53	0.052	52
54	10/23/2011 10:54	0.032	32
55	10/23/2011 10:55	0.069	69
56	10/23/2011 10:56	0.038	38
57	10/23/2011 10:57	0.083	83
58	10/23/2011 10:58	0.039	39
59	10/23/2011 10:59	0.039	39

60	10/23/2011 11:00	0.036	36
61	10/23/2011 11:01	0.017	17
62	10/23/2011 11:02	0.046	46
63	10/23/2011 11:03	0.06	60
64	10/23/2011 11:04	0.042	42
65	10/23/2011 11:05	0.017	17
66	10/23/2011 11:06	0.012	12
67	10/23/2011 11:07	0.007	7
68	10/23/2011 11:08	0.022	22
69	10/23/2011 11:09	0.036	36
70	10/23/2011 11:10	0.012	12
71	10/23/2011 11:11	0.015	15
72	10/23/2011 11:12	0.006	6
73	10/23/2011 11:13	0.011	11
74	10/23/2011 11:14	0	0
75	10/23/2011 11:15	0.013	13
76	10/23/2011 11:16	0.072	72
77	10/23/2011 11:17	0.026	26
78	10/23/2011 11:18	0.01	10
79	10/23/2011 11:19	0.041	41
80	10/23/2011 11:20	0.046	46
81	10/23/2011 11:21	0.041	41
82	10/23/2011 11:22	0.12	120
83	10/23/2011 11:23	0.076	76
84	10/23/2011 11:24	0.144	144
85	10/23/2011 11:25	0.086	86
86	10/23/2011 11:26	0.053	53
87	10/23/2011 11:27	0.088	88
88	10/23/2011 11:28	0.053	53
89	10/23/2011 11:29	0.032	32
90	10/23/2011 11:30	0.069	69
91	10/23/2011 11:31	0.044	44
92	10/23/2011 11:32	0.058	58
93	10/23/2011 11:33	0.06	60
94	10/23/2011 11:34	0.133	133
95	10/23/2011 11:35	0.059	59
96	10/23/2011 11:36	0.078	78
97	10/23/2011 11:37	0.037	37
98	10/23/2011 11:38	0.021	21
99	10/23/2011 11:39	0.065	65
100	10/23/2011 11:40	0.172	172
101	10/23/2011 11:41	0.114	114
102	10/23/2011 11:42	0.098	98
103	10/23/2011 11:43	0.109	109
104	10/23/2011 11:44	0.064	64
105	10/23/2011 11:45	0.188	188
106	10/23/2011 11:46	0.204	204
107	10/23/2011 11:47	0.089	89
108	10/23/2011 11:48	0.092	92
109	10/23/2011 11:49	0.08	80
110	10/23/2011 11:50	0.044	44
111	10/23/2011 11:51	0.115	115
112	10/23/2011 11:52	0.181	181
113	10/23/2011 11:53	0.03	30
114	10/23/2011 11:54	0.023	23
115	10/23/2011 11:55	0.041	41
116	10/23/2011 11:56	0.046	46
117	10/23/2011 11:57	0.045	45
118	10/23/2011 11:58	0.086	86
119	10/23/2011 11:59	0.209	209
120	10/23/2011 12:00	0.178	178
121	10/23/2011 12:01	0.156	156
122	10/23/2011 12:02	0.062	62
123	10/23/2011 12:03	0.097	97
124	10/23/2011 12:04	0.199	199
125	10/23/2011 12:05	0.092	92
126	10/23/2011 12:06	0.058	58
127	10/23/2011 12:07	0.051	51
128	10/23/2011 12:08	0.028	28
129	10/23/2011 12:09	0.045	45
130	10/23/2011 12:10	0.046	46
131	10/23/2011 12:11	0.079	79
132	10/23/2011 12:12	0.017	17
133	10/23/2011 12:13	0.016	16
134	10/23/2011 12:14	0.049	49
135	10/23/2011 12:15	0.057	57
136	10/23/2011 12:16	0.082	82
137	10/23/2011 12:17	0.116	116
138	10/23/2011 12:18	0.068	68
139	10/23/2011 12:19	0.112	112

140	10/23/2011 12:20	0.057	57
141	10/23/2011 12:21	0.019	19
142	10/23/2011 12:22	0.036	36
143	10/23/2011 12:23	0.114	114
144	10/23/2011 12:24	0.084	84
145	10/23/2011 12:25	0.048	48
146	10/23/2011 12:26	0.044	44
147	10/23/2011 12:27	0.026	26
148	10/23/2011 12:28	0.125	125
149	10/23/2011 12:29	0.124	124
150	10/23/2011 12:30	0.183	183
151	10/23/2011 12:31	0.124	124
152	10/23/2011 12:32	0.214	214
153	10/23/2011 12:33	0.196	196
154	10/23/2011 12:34	0.159	159
155	10/23/2011 12:35	0.136	136
156	10/23/2011 12:36	0.304	304
157	10/23/2011 12:37	0.087	87
158	10/23/2011 12:38	0.198	198
159	10/23/2011 12:39	0.226	226
160	10/23/2011 12:40	0.277	277
161	10/23/2011 12:41	0.143	143
162	10/23/2011 12:42	0.122	122
163	10/23/2011 12:43	0.144	144
164	10/23/2011 12:44	0.096	96
165	10/23/2011 12:45	0.095	95
166	10/23/2011 12:46	0.175	175
167	10/23/2011 12:47	0.099	99
168	10/23/2011 12:48	0.078	78
169	10/23/2011 12:49	0.073	73
170	10/23/2011 12:50	0.142	142
171	10/23/2011 12:51	0.098	98
172	10/23/2011 12:52	0.057	57
173	10/23/2011 12:53	0.083	83
174	10/23/2011 12:54	0.072	72
175	10/23/2011 12:55	0.053	53
176	10/23/2011 12:56	0.109	109
177	10/23/2011 12:57	0.162	162
178	10/23/2011 12:58	0.105	105
179	10/23/2011 12:59	0.077	77
180	10/23/2011 13:00	0.083	83
181	10/23/2011 13:01	0.085	85
182	10/23/2011 13:02	0.098	98
183	10/23/2011 13:03	0.074	74
184	10/23/2011 13:04	0.108	108
185	10/23/2011 13:05	0.106	106
186	10/23/2011 13:06	0.061	61
187	10/23/2011 13:07	0.064	64
188	10/23/2011 13:08	0.073	73
189	10/23/2011 13:09	0.049	49
190	10/23/2011 13:10	0.041	41
191	10/23/2011 13:11	0.069	69
192	10/23/2011 13:12	0.071	71
193	10/23/2011 13:13	0.036	36
194	10/23/2011 13:14	0.04	40
195	10/23/2011 13:15	0.052	52
196	10/23/2011 13:16	0.097	97
197	10/23/2011 13:17	0.093	93
198	10/23/2011 13:18	0.069	69
199	10/23/2011 13:19	0.074	74
200	10/23/2011 13:20	0.081	81
201	10/23/2011 13:21	0.155	155
202	10/23/2011 13:22	0.135	135
203	10/23/2011 13:23	0.104	104
204	10/23/2011 13:24	0.071	71
205	10/23/2011 13:25	0.075	75
206	10/23/2011 13:26	0.057	57
207	10/23/2011 13:27	0.08	80
208	10/23/2011 13:28	0.17	170
209	10/23/2011 13:29	0.164	164
210	10/23/2011 13:30	0.093	93
211	10/23/2011 13:31	0.107	107
212	10/23/2011 13:32	0.093	93
213	10/23/2011 13:33	0.108	108
214	10/23/2011 13:34	0.118	118
215	10/23/2011 13:35	0.117	117
216	10/23/2011 13:36	0.11	110
217	10/23/2011 13:37	0.094	94
218	10/23/2011 13:38	0.095	95
219	10/23/2011 13:39	0.103	103

220	10/23/2011 13:40	0.089	89
221	10/23/2011 13:41	0.098	98
222	10/23/2011 13:42	0.049	49
223	10/23/2011 13:43	0.052	52
224	10/23/2011 13:44	0.112	112
225	10/23/2011 13:45	0.097	97
226	10/23/2011 13:46	0.094	94
227	10/23/2011 13:47	0.059	59
228	10/23/2011 13:48	0.082	82
229	10/23/2011 13:49	0.087	87
230	10/23/2011 13:50	0.069	69
231	10/23/2011 13:51	0.052	52
232	10/23/2011 13:52	0.046	46
233	10/23/2011 13:53	0.066	66
234	10/23/2011 13:54	0.101	101
235	10/23/2011 13:55	0.079	79
236	10/23/2011 13:56	0.081	81
237	10/23/2011 13:57	0.048	48
238	10/23/2011 13:58	0.075	75
239	10/23/2011 13:59	0.056	56
240	10/23/2011 14:00	0.042	42
241	10/23/2011 14:01	0.043	43
242	10/23/2011 14:02	0.049	49
243	10/23/2011 14:03	0.108	108
244	10/23/2011 14:04	0.041	41
245	10/23/2011 14:05	0.08	80
246	10/23/2011 14:06	0.041	41
247	10/23/2011 14:07	0.042	42
248	10/23/2011 14:08	0.097	97
249	10/23/2011 14:09	0.257	257
250	10/23/2011 14:10	0.324	324
251	10/23/2011 14:11	0.176	176
252	10/23/2011 14:12	0.092	92
253	10/23/2011 14:13	0.115	115
254	10/23/2011 14:14	0.061	61
255	10/23/2011 14:15	0.096	96
256	10/23/2011 14:16	0.146	146
257	10/23/2011 14:17	0.097	97
258	10/23/2011 14:18	0.126	126
259	10/23/2011 14:19	0.087	87
260	10/23/2011 14:20	0.051	51
261	10/23/2011 14:21	0.09	90
262	10/23/2011 14:22	0.088	88
263	10/23/2011 14:23	0.039	39
264	10/23/2011 14:24	0.064	64
265	10/23/2011 14:25	0.093	93
266	10/23/2011 14:26	0.088	88
267	10/23/2011 14:27	0.065	65
268	10/23/2011 14:28	0.062	62
269	10/23/2011 14:29	0.059	59
270	10/23/2011 14:30	0.101	101
271	10/23/2011 14:31	0.058	58
272	10/23/2011 14:32	0.064	64
273	10/23/2011 14:33	0.106	106
274	10/23/2011 14:34	0.068	68
275	10/23/2011 14:35	0.05	50
276	10/23/2011 14:36	0.086	86
277	10/23/2011 14:37	0.044	44
278	10/23/2011 14:38	0.075	75
279	10/23/2011 14:39	0.062	62
280	10/23/2011 14:40	0.046	46
281	10/23/2011 14:41	0.044	44
282	10/23/2011 14:42	0.054	54
283	10/23/2011 14:43	0.049	49
284	10/23/2011 14:44	0.031	31
285	10/23/2011 14:45	0.027	27
286	10/23/2011 14:46	0.059	59
287	10/23/2011 14:47	0.054	54
288	10/23/2011 14:48	0.11	110
289	10/23/2011 14:49	0.078	78
290	10/23/2011 14:50	0.098	98
291	10/23/2011 14:51	0.057	57
292	10/23/2011 14:52	0.051	51
293	10/23/2011 14:53	0.078	78
294	10/23/2011 14:54	0.075	75
295	10/23/2011 14:55	0.059	59
296	10/23/2011 14:56	0.046	46
297	10/23/2011 14:57	0.051	51
298	10/23/2011 14:58	0.056	56
299	10/23/2011 14:59	0.133	133

300	10/23/2011 15:00	0.05	50
301	10/23/2011 15:01	0.058	58
302	10/23/2011 15:02	0.097	97
303	10/23/2011 15:03	0.119	119
304	10/23/2011 15:04	0.138	138
305	10/23/2011 15:05	0.234	234
306	10/23/2011 15:06	0.072	72
307	10/23/2011 15:07	0.045	45
308	10/23/2011 15:08	0.099	99
309	10/23/2011 15:09	0.075	75
310	10/23/2011 15:10	0.159	159
311	10/23/2011 15:11	0.091	91
312	10/23/2011 15:12	0.099	99
313	10/23/2011 15:13	0.083	83
314	10/23/2011 15:14	0.088	88
315	10/23/2011 15:15	0.088	88
316	10/23/2011 15:16	0.073	73
317	10/23/2011 15:17	0.067	67
318	10/23/2011 15:18	0.125	125
319	10/23/2011 15:19	0.091	91
320	10/23/2011 15:20	0.072	72
321	10/23/2011 15:21	0.095	95
322	10/23/2011 15:22	0.117	117
323	10/23/2011 15:23	0.065	65
324	10/23/2011 15:24	0.032	32
325	10/23/2011 15:25	0.082	82
326	10/23/2011 15:26	0.079	79
327	10/23/2011 15:27	0.098	98
328	10/23/2011 15:28	0.071	71
329	10/23/2011 15:29	0.106	106
330	10/23/2011 15:30	0.111	111
331	10/23/2011 15:31	0.13	130
332	10/23/2011 15:32	0.15	150
333	10/23/2011 15:33	0.116	116
334	10/23/2011 15:34	0.061	61
335	10/23/2011 15:35	0.047	47
336	10/23/2011 15:36	0.067	67
337	10/23/2011 15:37	0.108	108
338	10/23/2011 15:38	0.129	129
339	10/23/2011 15:39	0.063	63
340	10/23/2011 15:40	0.097	97
341	10/23/2011 15:41	0.053	53
342	10/23/2011 15:42	0.084	84
343	10/23/2011 15:43	0.081	81
344	10/23/2011 15:44	0.079	79
345	10/23/2011 15:45	0.057	57
346	10/23/2011 15:46	0.066	66
347	10/23/2011 15:47	0.221	221
348	10/23/2011 15:48	0.102	102
349	10/23/2011 15:49	0.246	246
350	10/23/2011 15:50	0.126	126
351	10/23/2011 15:51	0.097	97
352	10/23/2011 15:52	0.084	84
353	10/23/2011 15:53	0.109	109
354	10/23/2011 15:54	0.181	181
355	10/23/2011 15:55	0.161	161
356	10/23/2011 15:56	0.088	88
357	10/23/2011 15:57	0.102	102
358	10/23/2011 15:58	0.234	234
359	10/23/2011 15:59	0.219	219
360	10/23/2011 16:00	0.366	366
361	10/23/2011 16:01	0.294	294
362	10/23/2011 16:02	0.433	433
363	10/23/2011 16:03	0.227	227
364	10/23/2011 16:04	0.399	399
365	10/23/2011 16:05	0.59	590
366	10/23/2011 16:06	0.423	423
367	10/23/2011 16:07	0.553	553
368	10/23/2011 16:08	0.592	592
369	10/23/2011 16:09	0.355	355
370	10/23/2011 16:10	0.284	284
371	10/23/2011 16:11	0.432	432
372	10/23/2011 16:12	0.272	272
373	10/23/2011 16:13	0.315	315
374	10/23/2011 16:14	0.212	212
375	10/23/2011 16:15	0.14	140
376	10/23/2011 16:16	0.141	141
377	10/23/2011 16:17	0.148	148
378	10/23/2011 16:18	0.274	274
379	10/23/2011 16:19	0.357	357

380	10/23/2011 16:20	0.582	582
381	10/23/2011 16:21	0.334	334
382	10/23/2011 16:22	0.297	297
383	10/23/2011 16:23	0.502	502
384	10/23/2011 16:24	0.262	262
385	10/23/2011 16:25	0.226	226
386	10/23/2011 16:26	0.239	239
387	10/23/2011 16:27	0.223	223
388	10/23/2011 16:28	0.207	207
389	10/23/2011 16:29	0.252	252
390	10/23/2011 16:30	0.153	153
391	10/23/2011 16:31	0.209	209
392	10/23/2011 16:32	0.321	321
393	10/23/2011 16:33	0.331	331
394	10/23/2011 16:34	0.234	234

==========Event #14 information (end)==========

=========Event #17 information (begin)=========

[Event #17 name:]--[Event #17]2011-10-24 09:36<-->2011-10-24 15:22

[Event start time:]--2011-10-24 09:36:49[Event end time:]--2011-10-24 15:22:49

==========Event #17 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 346 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-24 09:36:00

Drift Value : ---

Low Alarm Levels : 25847

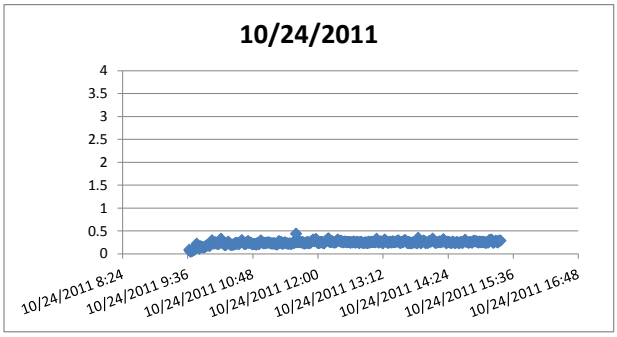
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #17 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/24/2011 9:37	13.878	13878
2	10/24/2011 9:38	0.089	89
3	10/24/2011 9:39	0.05	50
4	10/24/2011 9:40	0.051	51
5	10/24/2011 9:41	0.063	63
6	10/24/2011 9:42	0.074	74
7	10/24/2011 9:43	0.086	86
8	10/24/2011 9:44	0.096	96
9	10/24/2011 9:45	0.159	159
10	10/24/2011 9:46	0.221	221
11	10/24/2011 9:47	0.188	188
12	10/24/2011 9:48	0.158	158
13	10/24/2011 9:49	0.112	112
14	10/24/2011 9:50	0.166	166
15	10/24/2011 9:51	0.156	156
16	10/24/2011 9:52	0.152	152
17	10/24/2011 9:53	0.139	139
18	10/24/2011 9:54	0.144	144
19	10/24/2011 9:55	0.145	145
20	10/24/2011 9:56	0.168	168
21	10/24/2011 9:57	0.181	181
22	10/24/2011 9:58	0.183	183
23	10/24/2011 9:59	0.199	199
24	10/24/2011 10:00	0.171	171
25	10/24/2011 10:01	0.182	182
26	10/24/2011 10:02	0.228	228
27	10/24/2011 10:03	0.297	297
28	10/24/2011 10:04	0.252	252
29	10/24/2011 10:05	0.225	225
30	10/24/2011 10:06	0.231	231
31	10/24/2011 10:07	0.254	254
32	10/24/2011 10:08	0.224	224
33	10/24/2011 10:09	0.224	224
34	10/24/2011 10:10	0.213	213
35	10/24/2011 10:11	0.223	223
36	10/24/2011 10:12	0.292	292
37	10/24/2011 10:13	0.326	326
38	10/24/2011 10:14	0.24	240
39	10/24/2011 10:15	0.259	259
40	10/24/2011 10:16	0.213	213
41	10/24/2011 10:17	0.193	193
42	10/24/2011 10:18	0.191	191
43	10/24/2011 10:19	0.21	210
44	10/24/2011 10:20	0.242	242
45	10/24/2011 10:21	0.265	265
46	10/24/2011 10:22	0.239	239
47	10/24/2011 10:23	0.204	204
48	10/24/2011 10:24	0.197	197
49	10/24/2011 10:25	0.196	196
50	10/24/2011 10:26	0.197	197
51	10/24/2011 10:27	0.211	211
52	10/24/2011 10:28	0.208	208
53	10/24/2011 10:29	0.237	237
54	10/24/2011 10:30	0.217	217
55	10/24/2011 10:31	0.24	240
56	10/24/2011 10:32	0.218	218
57	10/24/2011 10:33	0.218	218
58	10/24/2011 10:34	0.238	238
59	10/24/2011 10:35	0.263	263

60	10/24/2011 10:36	0.3	300
61	10/24/2011 10:37	0.265	265
62	10/24/2011 10:38	0.24	240
63	10/24/2011 10:39	0.214	214
64	10/24/2011 10:40	0.215	215
65	10/24/2011 10:41	0.223	223
66	10/24/2011 10:42	0.266	266
67	10/24/2011 10:43	0.279	279
68	10/24/2011 10:44	0.238	238
69	10/24/2011 10:45	0.246	246
70	10/24/2011 10:46	0.24	240
71	10/24/2011 10:47	0.221	221
72	10/24/2011 10:48	0.207	207
73	10/24/2011 10:49	0.218	218
74	10/24/2011 10:50	0.214	214
75	10/24/2011 10:51	0.212	212
76	10/24/2011 10:52	0.201	201
77	10/24/2011 10:53	0.233	233
78	10/24/2011 10:54	0.222	222
79	10/24/2011 10:55	0.214	214
80	10/24/2011 10:56	0.255	255
81	10/24/2011 10:57	0.289	289
82	10/24/2011 10:58	0.273	273
83	10/24/2011 10:59	0.243	243
84	10/24/2011 11:00	0.228	228
85	10/24/2011 11:01	0.237	237
86	10/24/2011 11:02	0.231	231
87	10/24/2011 11:03	0.244	244
88	10/24/2011 11:04	0.242	242
89	10/24/2011 11:05	0.248	248
90	10/24/2011 11:06	0.249	249
91	10/24/2011 11:07	0.242	242
92	10/24/2011 11:08	0.231	231
93	10/24/2011 11:09	0.225	225
94	10/24/2011 11:10	0.224	224
95	10/24/2011 11:11	0.228	228
96	10/24/2011 11:12	0.235	235
97	10/24/2011 11:13	0.212	212
98	10/24/2011 11:14	0.208	208
99	10/24/2011 11:15	0.206	206
100	10/24/2011 11:16	0.239	239
101	10/24/2011 11:17	0.277	277
102	10/24/2011 11:18	0.235	235
103	10/24/2011 11:19	0.258	258
104	10/24/2011 11:20	0.253	253
105	10/24/2011 11:21	0.216	216
106	10/24/2011 11:22	0.23	230
107	10/24/2011 11:23	0.245	245
108	10/24/2011 11:24	0.248	248
109	10/24/2011 11:25	0.234	234
110	10/24/2011 11:26	0.228	228
111	10/24/2011 11:27	0.221	221
112	10/24/2011 11:28	0.222	222
113	10/24/2011 11:29	0.23	230
114	10/24/2011 11:30	0.22	220
115	10/24/2011 11:31	0.217	217
116	10/24/2011 11:32	0.234	234
117	10/24/2011 11:33	0.252	252
118	10/24/2011 11:34	0.238	238
119	10/24/2011 11:35	0.254	254
120	10/24/2011 11:36	0.438	438
121	10/24/2011 11:37	0.254	254
122	10/24/2011 11:38	0.253	253
123	10/24/2011 11:39	0.271	271
124	10/24/2011 11:40	0.258	258
125	10/24/2011 11:41	0.256	256
126	10/24/2011 11:42	0.244	244
127	10/24/2011 11:43	0.263	263
128	10/24/2011 11:44	0.239	239
129	10/24/2011 11:45	0.223	223
130	10/24/2011 11:46	0.23	230
131	10/24/2011 11:47	0.25	250
132	10/24/2011 11:48	0.237	237
133	10/24/2011 11:49	0.26	260
134	10/24/2011 11:50	0.231	231
135	10/24/2011 11:51	0.241	241
136	10/24/2011 11:52	0.243	243
137	10/24/2011 11:53	0.275	275
138	10/24/2011 11:54	0.285	285
139	10/24/2011 11:55	0.31	310

140	10/24/2011 11:56	0.275	275
141	10/24/2011 11:57	0.293	293
142	10/24/2011 11:58	0.324	324
143	10/24/2011 11:59	0.296	296
144	10/24/2011 12:00	0.237	237
145	10/24/2011 12:01	0.241	241
146	10/24/2011 12:02	0.239	239
147	10/24/2011 12:03	0.257	257
148	10/24/2011 12:04	0.261	261
149	10/24/2011 12:05	0.254	254
150	10/24/2011 12:06	0.232	232
151	10/24/2011 12:07	0.228	228
152	10/24/2011 12:08	0.27	270
153	10/24/2011 12:09	0.284	284
154	10/24/2011 12:10	0.284	284
155	10/24/2011 12:11	0.328	328
156	10/24/2011 12:12	0.336	336
157	10/24/2011 12:13	0.26	260
158	10/24/2011 12:14	0.256	256
159	10/24/2011 12:15	0.261	261
160	10/24/2011 12:16	0.275	275
161	10/24/2011 12:17	0.258	258
162	10/24/2011 12:18	0.246	246
163	10/24/2011 12:19	0.249	249
164	10/24/2011 12:20	0.253	253
165	10/24/2011 12:21	0.28	280
166	10/24/2011 12:22	0.311	311
167	10/24/2011 12:23	0.291	291
168	10/24/2011 12:24	0.281	281
169	10/24/2011 12:25	0.266	266
170	10/24/2011 12:26	0.285	285
171	10/24/2011 12:27	0.258	258
172	10/24/2011 12:28	0.249	249
173	10/24/2011 12:29	0.262	262
174	10/24/2011 12:30	0.271	271
175	10/24/2011 12:31	0.261	261
176	10/24/2011 12:32	0.252	252
177	10/24/2011 12:33	0.256	256
178	10/24/2011 12:34	0.256	256
179	10/24/2011 12:35	0.257	257
180	10/24/2011 12:36	0.243	243
181	10/24/2011 12:37	0.258	258
182	10/24/2011 12:38	0.251	251
183	10/24/2011 12:39	0.256	256
184	10/24/2011 12:40	0.27	270
185	10/24/2011 12:41	0.248	248
186	10/24/2011 12:42	0.247	247
187	10/24/2011 12:43	0.26	260
188	10/24/2011 12:44	0.257	257
189	10/24/2011 12:45	0.255	255
190	10/24/2011 12:46	0.233	233
191	10/24/2011 12:47	0.262	262
192	10/24/2011 12:48	0.259	259
193	10/24/2011 12:49	0.249	249
194	10/24/2011 12:50	0.239	239
195	10/24/2011 12:51	0.238	238
196	10/24/2011 12:52	0.245	245
197	10/24/2011 12:53	0.253	253
198	10/24/2011 12:54	0.241	241
199	10/24/2011 12:55	0.232	232
200	10/24/2011 12:56	0.265	265
201	10/24/2011 12:57	0.242	242
202	10/24/2011 12:58	0.256	256
203	10/24/2011 12:59	0.263	263
204	10/24/2011 13:00	0.256	256
205	10/24/2011 13:01	0.263	263
206	10/24/2011 13:02	0.258	258
207	10/24/2011 13:03	0.262	262
208	10/24/2011 13:04	0.254	254
209	10/24/2011 13:05	0.329	329
210	10/24/2011 13:06	0.272	272
211	10/24/2011 13:07	0.248	248
212	10/24/2011 13:08	0.249	249
213	10/24/2011 13:09	0.271	271
214	10/24/2011 13:10	0.272	272
215	10/24/2011 13:11	0.245	245
216	10/24/2011 13:12	0.234	234
217	10/24/2011 13:13	0.27	270
218	10/24/2011 13:14	0.313	313
219	10/24/2011 13:15	0.291	291

220	10/24/2011 13:16	0.253	253
221	10/24/2011 13:17	0.256	256
222	10/24/2011 13:18	0.239	239
223	10/24/2011 13:19	0.259	259
224	10/24/2011 13:20	0.266	266
225	10/24/2011 13:21	0.251	251
226	10/24/2011 13:22	0.249	249
227	10/24/2011 13:23	0.274	274
228	10/24/2011 13:24	0.257	257
229	10/24/2011 13:25	0.252	252
230	10/24/2011 13:26	0.257	257
231	10/24/2011 13:27	0.275	275
232	10/24/2011 13:28	0.27	270
233	10/24/2011 13:29	0.295	295
234	10/24/2011 13:30	0.252	252
235	10/24/2011 13:31	0.239	239
236	10/24/2011 13:32	0.246	246
237	10/24/2011 13:33	0.265	265
238	10/24/2011 13:34	0.254	254
239	10/24/2011 13:35	0.27	270
240	10/24/2011 13:36	0.3	300
241	10/24/2011 13:37	0.296	296
242	10/24/2011 13:38	0.273	273
243	10/24/2011 13:39	0.236	236
244	10/24/2011 13:40	0.235	235
245	10/24/2011 13:41	0.26	260
246	10/24/2011 13:42	0.238	238
247	10/24/2011 13:43	0.228	228
248	10/24/2011 13:44	0.245	245
249	10/24/2011 13:45	0.246	246
250	10/24/2011 13:46	0.248	248
251	10/24/2011 13:47	0.254	254
252	10/24/2011 13:48	0.251	251
253	10/24/2011 13:49	0.247	247
254	10/24/2011 13:50	0.228	228
255	10/24/2011 13:51	0.35	350
256	10/24/2011 13:52	0.29	290
257	10/24/2011 13:53	0.27	270
258	10/24/2011 13:54	0.232	232
259	10/24/2011 13:55	0.265	265
260	10/24/2011 13:56	0.262	262
261	10/24/2011 13:57	0.29	290
262	10/24/2011 13:58	0.279	279
263	10/24/2011 13:59	0.238	238
264	10/24/2011 14:00	0.248	248
265	10/24/2011 14:01	0.243	243
266	10/24/2011 14:02	0.242	242
267	10/24/2011 14:03	0.278	278
268	10/24/2011 14:04	0.267	267
269	10/24/2011 14:05	0.267	267
270	10/24/2011 14:06	0.284	284
271	10/24/2011 14:07	0.332	332
272	10/24/2011 14:08	0.286	286
273	10/24/2011 14:09	0.268	268
274	10/24/2011 14:10	0.241	241
275	10/24/2011 14:11	0.241	241
276	10/24/2011 14:12	0.254	254
277	10/24/2011 14:13	0.256	256
278	10/24/2011 14:14	0.252	252
279	10/24/2011 14:15	0.276	276
280	10/24/2011 14:16	0.253	253
281	10/24/2011 14:17	0.27	270
282	10/24/2011 14:18	0.268	268
283	10/24/2011 14:19	0.319	319
284	10/24/2011 14:20	0.277	277
285	10/24/2011 14:21	0.265	265
286	10/24/2011 14:22	0.234	234
287	10/24/2011 14:23	0.251	251
288	10/24/2011 14:24	0.266	266
289	10/24/2011 14:25	0.258	258
290	10/24/2011 14:26	0.25	250
291	10/24/2011 14:27	0.242	242
292	10/24/2011 14:28	0.236	236
293	10/24/2011 14:29	0.266	266
294	10/24/2011 14:30	0.257	257
295	10/24/2011 14:31	0.24	240
296	10/24/2011 14:32	0.237	237
297	10/24/2011 14:33	0.25	250
298	10/24/2011 14:34	0.258	258
299	10/24/2011 14:35	0.248	248

300	10/24/2011 14:36	0.232	232
301	10/24/2011 14:37	0.24	240
302	10/24/2011 14:38	0.257	257
303	10/24/2011 14:39	0.253	253
304	10/24/2011 14:40	0.239	239
305	10/24/2011 14:41	0.268	268
306	10/24/2011 14:42	0.274	274
307	10/24/2011 14:43	0.309	309
308	10/24/2011 14:44	0.266	266
309	10/24/2011 14:45	0.262	262
310	10/24/2011 14:46	0.25	250
311	10/24/2011 14:47	0.241	241
312	10/24/2011 14:48	0.256	256
313	10/24/2011 14:49	0.256	256
314	10/24/2011 14:50	0.251	251
315	10/24/2011 14:51	0.246	246
316	10/24/2011 14:52	0.279	279
317	10/24/2011 14:53	0.287	287
318	10/24/2011 14:54	0.273	273
319	10/24/2011 14:55	0.276	276
320	10/24/2011 14:56	0.271	271
321	10/24/2011 14:57	0.253	253
322	10/24/2011 14:58	0.251	251
323	10/24/2011 14:59	0.27	270
324	10/24/2011 15:00	0.259	259
325	10/24/2011 15:01	0.253	253
326	10/24/2011 15:02	0.263	263
327	10/24/2011 15:03	0.267	267
328	10/24/2011 15:04	0.256	256
329	10/24/2011 15:05	0.244	244
330	10/24/2011 15:06	0.242	242
331	10/24/2011 15:07	0.264	264
332	10/24/2011 15:08	0.245	245
333	10/24/2011 15:09	0.256	256
334	10/24/2011 15:10	0.303	303
335	10/24/2011 15:11	0.298	298
336	10/24/2011 15:12	0.312	312
337	10/24/2011 15:13	0.287	287
338	10/24/2011 15:14	0.242	242
339	10/24/2011 15:15	0.26	260
340	10/24/2011 15:16	0.269	269
341	10/24/2011 15:17	0.287	287
342	10/24/2011 15:18	0.262	262
343	10/24/2011 15:19	0.251	251
344	10/24/2011 15:20	0.287	287
345	10/24/2011 15:21	0.287	287
346	10/24/2011 15:22	0.292	292

==========Event #17 information (end)==========

=========Event #20 information (begin)=========

[Event #20 name:]--[Event #20]2011-10-25 09:52<-->2011-10-25 14:59

[Event start time:]--2011-10-25 09:52:15[Event end time:]--2011-10-25 14:59:15

==========Event #20 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 307 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-25 09:12:00

Drift Value : ---

Low Alarm Levels : 25847

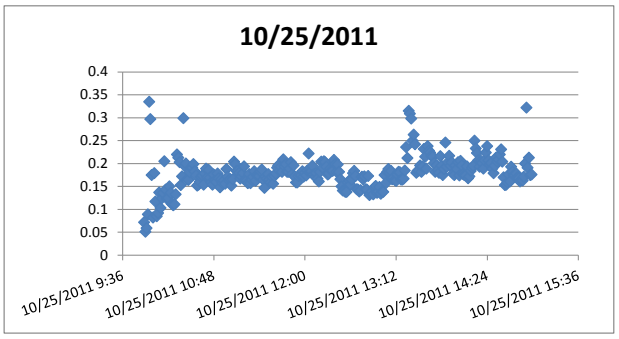
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #20 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/25/2011 9:53	0.072	72
2	10/25/2011 9:54	0.051	51
3	10/25/2011 9:55	0.059	59
4	10/25/2011 9:56	0.089	89
5	10/25/2011 9:57	0.335	335
6	10/25/2011 9:58	0.297	297
7	10/25/2011 9:59	0.175	175
8	10/25/2011 10:00	0.082	82
9	10/25/2011 10:01	0.179	179
10	10/25/2011 10:02	0.117	117
11	10/25/2011 10:03	0.085	85
12	10/25/2011 10:04	0.092	92
13	10/25/2011 10:05	0.137	137
14	10/25/2011 10:06	0.103	103
15	10/25/2011 10:07	0.124	124
16	10/25/2011 10:08	0.136	136
17	10/25/2011 10:09	0.205	205
18	10/25/2011 10:10	0.143	143
19	10/25/2011 10:11	0.123	123
20	10/25/2011 10:12	0.125	125
21	10/25/2011 10:13	0.15	150
22	10/25/2011 10:14	0.136	136
23	10/25/2011 10:15	0.112	112
24	10/25/2011 10:16	0.109	109
25	10/25/2011 10:17	0.111	111
26	10/25/2011 10:18	0.133	133
27	10/25/2011 10:19	0.22	220
28	10/25/2011 10:20	0.213	213
29	10/25/2011 10:21	0.203	203
30	10/25/2011 10:22	0.153	153
31	10/25/2011 10:23	0.172	172
32	10/25/2011 10:24	0.299	299
33	10/25/2011 10:25	0.195	195
34	10/25/2011 10:26	0.2	200
35	10/25/2011 10:27	0.166	166
36	10/25/2011 10:28	0.164	164
37	10/25/2011 10:29	0.181	181
38	10/25/2011 10:30	0.192	192
39	10/25/2011 10:31	0.191	191
40	10/25/2011 10:32	0.199	199
41	10/25/2011 10:33	0.183	183
42	10/25/2011 10:34	0.174	174
43	10/25/2011 10:35	0.152	152
44	10/25/2011 10:36	0.154	154
45	10/25/2011 10:37	0.16	160
46	10/25/2011 10:38	0.171	171
47	10/25/2011 10:39	0.174	174
48	10/25/2011 10:40	0.154	154
49	10/25/2011 10:41	0.178	178
50	10/25/2011 10:42	0.189	189
51	10/25/2011 10:43	0.17	170
52	10/25/2011 10:44	0.186	186
53	10/25/2011 10:45	0.169	169
54	10/25/2011 10:46	0.159	159
55	10/25/2011 10:47	0.154	154
56	10/25/2011 10:48	0.176	176
57	10/25/2011 10:49	0.163	163
58	10/25/2011 10:50	0.16	160
59	10/25/2011 10:51	0.178	178

60	10/25/2011	10:52	0.168	168
61	10/25/2011	10:53	0.148	148
62	10/25/2011	10:54	0.166	166
63	10/25/2011	10:55	0.157	157
64	10/25/2011	10:56	0.163	163
65	10/25/2011	10:57	0.156	156
66	10/25/2011	10:58	0.188	188
67	10/25/2011	10:59	0.171	171
68	10/25/2011	11:00	0.163	163
69	10/25/2011	11:01	0.166	166
70	10/25/2011	11:02	0.152	152
71	10/25/2011	11:03	0.166	166
72	10/25/2011	11:04	0.204	204
73	10/25/2011	11:05	0.199	199
74	10/25/2011	11:06	0.184	184
75	10/25/2011	11:07	0.184	184
76	10/25/2011	11:08	0.18	180
77	10/25/2011	11:09	0.167	167
78	10/25/2011	11:10	0.172	172
79	10/25/2011	11:11	0.179	179
80	10/25/2011	11:12	0.194	194
81	10/25/2011	11:13	0.165	165
82	10/25/2011	11:14	0.163	163
83	10/25/2011	11:15	0.157	157
84	10/25/2011	11:16	0.177	177
85	10/25/2011	11:17	0.157	157
86	10/25/2011	11:18	0.164	164
87	10/25/2011	11:19	0.171	171
88	10/25/2011	11:20	0.183	183
89	10/25/2011	11:21	0.162	162
90	10/25/2011	11:22	0.175	175
91	10/25/2011	11:23	0.174	174
92	10/25/2011	11:24	0.173	173
93	10/25/2011	11:25	0.183	183
94	10/25/2011	11:26	0.187	187
95	10/25/2011	11:27	0.165	165
96	10/25/2011	11:28	0.147	147
97	10/25/2011	11:29	0.171	171
98	10/25/2011	11:30	0.167	167
99	10/25/2011	11:31	0.177	177
100	10/25/2011	11:32	0.165	165
101	10/25/2011	11:33	0.159	159
102	10/25/2011	11:34	0.171	171
103	10/25/2011	11:35	0.156	156
104	10/25/2011	11:36	0.173	173
105	10/25/2011	11:37	0.178	178
106	10/25/2011	11:38	0.191	191
107	10/25/2011	11:39	0.196	196
108	10/25/2011	11:40	0.184	184
109	10/25/2011	11:41	0.193	193
110	10/25/2011	11:42	0.182	182
111	10/25/2011	11:43	0.209	209
112	10/25/2011	11:44	0.194	194
113	10/25/2011	11:45	0.199	199
114	10/25/2011	11:46	0.182	182
115	10/25/2011	11:47	0.182	182
116	10/25/2011	11:48	0.189	189
117	10/25/2011	11:49	0.203	203
118	10/25/2011	11:50	0.177	177
119	10/25/2011	11:51	0.196	196
120	10/25/2011	11:52	0.172	172
121	10/25/2011	11:53	0.159	159
122	10/25/2011	11:54	0.159	159
123	10/25/2011	11:55	0.173	173
124	10/25/2011	11:56	0.176	176
125	10/25/2011	11:57	0.175	175
126	10/25/2011	11:58	0.183	183
127	10/25/2011	11:59	0.171	171
128	10/25/2011	12:00	0.18	180
129	10/25/2011	12:01	0.174	174
130	10/25/2011	12:02	0.185	185
131	10/25/2011	12:03	0.222	222
132	10/25/2011	12:04	0.183	183
133	10/25/2011	12:05	0.183	183
134	10/25/2011	12:06	0.195	195
135	10/25/2011	12:07	0.176	176
136	10/25/2011	12:08	0.171	171
137	10/25/2011	12:09	0.179	179
138	10/25/2011	12:10	0.167	167
139	10/25/2011	12:11	0.161	161

140	10/25/2011 12:12	0.182	182
141	10/25/2011 12:13	0.204	204
142	10/25/2011 12:14	0.191	191
143	10/25/2011 12:15	0.205	205
144	10/25/2011 12:16	0.203	203
145	10/25/2011 12:17	0.193	193
146	10/25/2011 12:18	0.176	176
147	10/25/2011 12:19	0.178	178
148	10/25/2011 12:20	0.189	189
149	10/25/2011 12:21	0.185	185
150	10/25/2011 12:22	0.184	184
151	10/25/2011 12:23	0.208	208
152	10/25/2011 12:24	0.199	199
153	10/25/2011 12:25	0.182	182
154	10/25/2011 12:26	0.198	198
155	10/25/2011 12:27	0.182	182
156	10/25/2011 12:28	0.166	166
157	10/25/2011 12:29	0.15	150
158	10/25/2011 12:30	0.141	141
159	10/25/2011 12:31	0.141	141
160	10/25/2011 12:32	0.138	138
161	10/25/2011 12:33	0.138	138
162	10/25/2011 12:34	0.159	159
163	10/25/2011 12:35	0.163	163
164	10/25/2011 12:36	0.154	154
165	10/25/2011 12:37	0.165	165
166	10/25/2011 12:38	0.179	179
167	10/25/2011 12:39	0.184	184
168	10/25/2011 12:40	0.173	173
169	10/25/2011 12:41	0.144	144
170	10/25/2011 12:42	0.143	143
171	10/25/2011 12:43	0.139	139
172	10/25/2011 12:44	0.142	142
173	10/25/2011 12:45	0.171	171
174	10/25/2011 12:46	0.166	166
175	10/25/2011 12:47	0.172	172
176	10/25/2011 12:48	0.144	144
177	10/25/2011 12:49	0.143	143
178	10/25/2011 12:50	0.173	173
179	10/25/2011 12:51	0.131	131
180	10/25/2011 12:52	0.135	135
181	10/25/2011 12:53	0.139	139
182	10/25/2011 12:54	0.133	133
183	10/25/2011 12:55	0.148	148
184	10/25/2011 12:56	0.151	151
185	10/25/2011 12:57	0.136	136
186	10/25/2011 12:58	0.139	139
187	10/25/2011 12:59	0.149	149
188	10/25/2011 13:00	0.134	134
189	10/25/2011 13:01	0.139	139
190	10/25/2011 13:02	0.138	138
191	10/25/2011 13:03	0.175	175
192	10/25/2011 13:04	0.157	157
193	10/25/2011 13:05	0.182	182
194	10/25/2011 13:06	0.188	188
195	10/25/2011 13:07	0.18	180
196	10/25/2011 13:08	0.184	184
197	10/25/2011 13:09	0.166	166
198	10/25/2011 13:10	0.169	169
199	10/25/2011 13:11	0.164	164
200	10/25/2011 13:12	0.162	162
201	10/25/2011 13:13	0.176	176
202	10/25/2011 13:14	0.182	182
203	10/25/2011 13:15	0.181	181
204	10/25/2011 13:16	0.165	165
205	10/25/2011 13:17	0.165	165
206	10/25/2011 13:18	0.167	167
207	10/25/2011 13:19	0.185	185
208	10/25/2011 13:20	0.236	236
209	10/25/2011 13:21	0.212	212
210	10/25/2011 13:22	0.315	315
211	10/25/2011 13:23	0.309	309
212	10/25/2011 13:24	0.298	298
213	10/25/2011 13:25	0.25	250
214	10/25/2011 13:26	0.263	263
215	10/25/2011 13:27	0.242	242
216	10/25/2011 13:28	0.18	180
217	10/25/2011 13:29	0.184	184
218	10/25/2011 13:30	0.185	185
219	10/25/2011 13:31	0.196	196

220	10/25/2011 13:32	0.182	182
221	10/25/2011 13:33	0.194	194
222	10/25/2011 13:34	0.232	232
223	10/25/2011 13:35	0.215	215
224	10/25/2011 13:36	0.189	189
225	10/25/2011 13:37	0.238	238
226	10/25/2011 13:38	0.228	228
227	10/25/2011 13:39	0.224	224
228	10/25/2011 13:40	0.217	217
229	10/25/2011 13:41	0.215	215
230	10/25/2011 13:42	0.201	201
231	10/25/2011 13:43	0.182	182
232	10/25/2011 13:44	0.196	196
233	10/25/2011 13:45	0.186	186
234	10/25/2011 13:46	0.18	180
235	10/25/2011 13:47	0.216	216
236	10/25/2011 13:48	0.195	195
237	10/25/2011 13:49	0.175	175
238	10/25/2011 13:50	0.188	188
239	10/25/2011 13:51	0.246	246
240	10/25/2011 13:52	0.193	193
241	10/25/2011 13:53	0.203	203
242	10/25/2011 13:54	0.217	217
243	10/25/2011 13:55	0.195	195
244	10/25/2011 13:56	0.203	203
245	10/25/2011 13:57	0.178	178
246	10/25/2011 13:58	0.175	175
247	10/25/2011 13:59	0.196	196
248	10/25/2011 14:00	0.188	188
249	10/25/2011 14:01	0.203	203
250	10/25/2011 14:02	0.174	174
251	10/25/2011 14:03	0.206	206
252	10/25/2011 14:04	0.196	196
253	10/25/2011 14:05	0.177	177
254	10/25/2011 14:06	0.175	175
255	10/25/2011 14:07	0.174	174
256	10/25/2011 14:08	0.194	194
257	10/25/2011 14:09	0.168	168
258	10/25/2011 14:10	0.172	172
259	10/25/2011 14:11	0.184	184
260	10/25/2011 14:12	0.191	191
261	10/25/2011 14:13	0.195	195
262	10/25/2011 14:14	0.25	250
263	10/25/2011 14:15	0.233	233
264	10/25/2011 14:16	0.223	223
265	10/25/2011 14:17	0.207	207
266	10/25/2011 14:18	0.193	193
267	10/25/2011 14:19	0.206	206
268	10/25/2011 14:20	0.201	201
269	10/25/2011 14:21	0.189	189
270	10/25/2011 14:22	0.207	207
271	10/25/2011 14:23	0.224	224
272	10/25/2011 14:24	0.238	238
273	10/25/2011 14:25	0.207	207
274	10/25/2011 14:26	0.197	197
275	10/25/2011 14:27	0.201	201
276	10/25/2011 14:28	0.189	189
277	10/25/2011 14:29	0.179	179
278	10/25/2011 14:30	0.195	195
279	10/25/2011 14:31	0.213	213
280	10/25/2011 14:32	0.204	204
281	10/25/2011 14:33	0.209	209
282	10/25/2011 14:34	0.22	220
283	10/25/2011 14:35	0.231	231
284	10/25/2011 14:36	0.204	204
285	10/25/2011 14:37	0.17	170
286	10/25/2011 14:38	0.153	153
287	10/25/2011 14:39	0.154	154
288	10/25/2011 14:40	0.159	159
289	10/25/2011 14:41	0.176	176
290	10/25/2011 14:42	0.161	161
291	10/25/2011 14:43	0.193	193
292	10/25/2011 14:44	0.182	182
293	10/25/2011 14:45	0.174	174
294	10/25/2011 14:46	0.174	174
295	10/25/2011 14:47	0.178	178
296	10/25/2011 14:48	0.17	170
297	10/25/2011 14:49	0.168	168
298	10/25/2011 14:50	0.161	161
299	10/25/2011 14:51	0.164	164

300	10/25/2011 14:52	0.163	163
301	10/25/2011 14:53	0.171	171
302	10/25/2011 14:54	0.2	200
303	10/25/2011 14:55	0.322	322
304	10/25/2011 14:56	0.191	191
305	10/25/2011 14:57	0.213	213
306	10/25/2011 14:58	0.175	175
307	10/25/2011 14:59	0.176	176

==========Event #20 information (end)==========

==========Event #4 information (begin)==========

[Event #4 name:]--[Event #4]2011-10-29 12:36<-->2011-10-29 17:40

[Event start time:]--2011-10-29 12:36:35[Event end time:]--2011-10-29 17:40:35

==========Event #4 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 304 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-29 08:16:00

Drift Value : ---

Low Alarm Levels : 25847

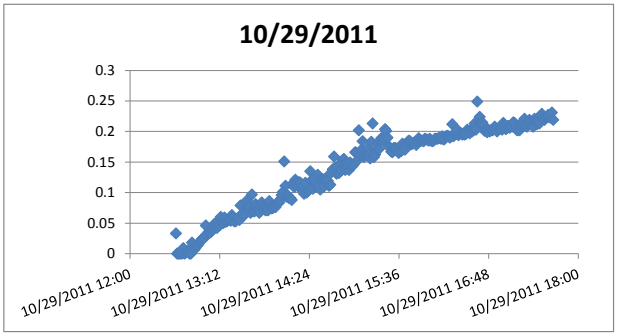
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #4 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/29/2011 12:37	0.033	33
2	10/29/2011 12:38	0	0
3	10/29/2011 12:39	0	0
4	10/29/2011 12:40	0	0
5	10/29/2011 12:41	0	0
6	10/29/2011 12:42	0	0
7	10/29/2011 12:43	0.009	9
8	10/29/2011 12:44	0	0
9	10/29/2011 12:45	0.002	2
10	10/29/2011 12:46	0.004	4
11	10/29/2011 12:47	0.005	5
12	10/29/2011 12:48	0	0
13	10/29/2011 12:49	0	0
14	10/29/2011 12:50	0.018	18
15	10/29/2011 12:51	0.008	8
16	10/29/2011 12:52	0.007	7
17	10/29/2011 12:53	0.01	10
18	10/29/2011 12:54	0.013	13
19	10/29/2011 12:55	0.015	15
20	10/29/2011 12:56	0.019	19
21	10/29/2011 12:57	0.021	21
22	10/29/2011 12:58	0.024	24
23	10/29/2011 12:59	0.026	26
24	10/29/2011 13:00	0.026	26
25	10/29/2011 13:01	0.046	46
26	10/29/2011 13:02	0.031	31
27	10/29/2011 13:03	0.035	35
28	10/29/2011 13:04	0.035	35
29	10/29/2011 13:05	0.035	35
30	10/29/2011 13:06	0.038	38
31	10/29/2011 13:07	0.04	40
32	10/29/2011 13:08	0.049	49
33	10/29/2011 13:09	0.046	46
34	10/29/2011 13:10	0.042	42
35	10/29/2011 13:11	0.053	53
36	10/29/2011 13:12	0.046	46
37	10/29/2011 13:13	0.06	60
38	10/29/2011 13:14	0.05	50
39	10/29/2011 13:15	0.05	50
40	10/29/2011 13:16	0.059	59
41	10/29/2011 13:17	0.052	52
42	10/29/2011 13:18	0.053	53
43	10/29/2011 13:19	0.055	55
44	10/29/2011 13:20	0.056	56
45	10/29/2011 13:21	0.054	54
46	10/29/2011 13:22	0.063	63
47	10/29/2011 13:23	0.059	59
48	10/29/2011 13:24	0.053	53
49	10/29/2011 13:25	0.053	53
50	10/29/2011 13:26	0.057	57
51	10/29/2011 13:27	0.058	58
52	10/29/2011 13:28	0.055	55
53	10/29/2011 13:29	0.079	79
54	10/29/2011 13:30	0.065	65
55	10/29/2011 13:31	0.061	61
56	10/29/2011 13:32	0.064	64
57	10/29/2011 13:33	0.075	75
58	10/29/2011 13:34	0.087	87
59	10/29/2011 13:35	0.076	76

60	10/29/2011 13:36	0.076	76
61	10/29/2011 13:37	0.067	67
62	10/29/2011 13:38	0.097	97
63	10/29/2011 13:39	0.07	70
64	10/29/2011 13:40	0.069	69
65	10/29/2011 13:41	0.081	81
66	10/29/2011 13:42	0.078	78
67	10/29/2011 13:43	0.071	71
68	10/29/2011 13:44	0.067	67
69	10/29/2011 13:45	0.077	77
70	10/29/2011 13:46	0.084	84
71	10/29/2011 13:47	0.078	78
72	10/29/2011 13:48	0.074	74
73	10/29/2011 13:49	0.071	71
74	10/29/2011 13:50	0.072	72
75	10/29/2011 13:51	0.071	71
76	10/29/2011 13:52	0.086	86
77	10/29/2011 13:53	0.077	77
78	10/29/2011 13:54	0.074	74
79	10/29/2011 13:55	0.075	75
80	10/29/2011 13:56	0.077	77
81	10/29/2011 13:57	0.076	76
82	10/29/2011 13:58	0.081	81
83	10/29/2011 13:59	0.084	84
84	10/29/2011 14:00	0.084	84
85	10/29/2011 14:01	0.089	89
86	10/29/2011 14:02	0.096	96
87	10/29/2011 14:03	0.101	101
88	10/29/2011 14:04	0.151	151
89	10/29/2011 14:05	0.111	111
90	10/29/2011 14:06	0.093	93
91	10/29/2011 14:07	0.095	95
92	10/29/2011 14:08	0.091	91
93	10/29/2011 14:09	0.091	91
94	10/29/2011 14:10	0.088	88
95	10/29/2011 14:11	0.115	115
96	10/29/2011 14:12	0.109	109
97	10/29/2011 14:13	0.121	121
98	10/29/2011 14:14	0.117	117
99	10/29/2011 14:15	0.11	110
100	10/29/2011 14:16	0.117	117
101	10/29/2011 14:17	0.116	116
102	10/29/2011 14:18	0.108	108
103	10/29/2011 14:19	0.11	110
104	10/29/2011 14:20	0.098	98
105	10/29/2011 14:21	0.116	116
106	10/29/2011 14:22	0.1	100
107	10/29/2011 14:23	0.104	104
108	10/29/2011 14:24	0.105	105
109	10/29/2011 14:25	0.135	135
110	10/29/2011 14:26	0.12	120
111	10/29/2011 14:27	0.106	106
112	10/29/2011 14:28	0.122	122
113	10/29/2011 14:29	0.11	110
114	10/29/2011 14:30	0.114	114
115	10/29/2011 14:31	0.129	129
116	10/29/2011 14:32	0.112	112
117	10/29/2011 14:33	0.105	105
118	10/29/2011 14:34	0.122	122
119	10/29/2011 14:35	0.122	122
120	10/29/2011 14:36	0.11	110
121	10/29/2011 14:37	0.123	123
122	10/29/2011 14:38	0.12	120
123	10/29/2011 14:39	0.119	119
124	10/29/2011 14:40	0.111	111
125	10/29/2011 14:41	0.113	113
126	10/29/2011 14:42	0.133	133
127	10/29/2011 14:43	0.138	138
128	10/29/2011 14:44	0.159	159
129	10/29/2011 14:45	0.141	141
130	10/29/2011 14:46	0.131	131
131	10/29/2011 14:47	0.143	143
132	10/29/2011 14:48	0.132	132
133	10/29/2011 14:49	0.137	137
134	10/29/2011 14:50	0.136	136
135	10/29/2011 14:51	0.153	153
136	10/29/2011 14:52	0.155	155
137	10/29/2011 14:53	0.137	137
138	10/29/2011 14:54	0.149	149
139	10/29/2011 14:55	0.145	145

140	10/29/2011 14:56	0.137	137
141	10/29/2011 14:57	0.149	149
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143	10/29/2011 14:59	0.144	144
144	10/29/2011 15:00	0.147	147
145	10/29/2011 15:01	0.166	166
146	10/29/2011 15:02	0.165	165
147	10/29/2011 15:03	0.153	153
148	10/29/2011 15:04	0.202	202
149	10/29/2011 15:05	0.161	161
150	10/29/2011 15:06	0.17	170
151	10/29/2011 15:07	0.184	184
152	10/29/2011 15:08	0.158	158
153	10/29/2011 15:09	0.163	163
154	10/29/2011 15:10	0.161	161
155	10/29/2011 15:11	0.172	172
156	10/29/2011 15:12	0.163	163
157	10/29/2011 15:13	0.156	156
158	10/29/2011 15:14	0.183	183
159	10/29/2011 15:15	0.213	213
160	10/29/2011 15:16	0.158	158
161	10/29/2011 15:17	0.162	162
162	10/29/2011 15:18	0.17	170
163	10/29/2011 15:19	0.179	179
164	10/29/2011 15:20	0.171	171
165	10/29/2011 15:21	0.185	185
166	10/29/2011 15:22	0.189	189
167	10/29/2011 15:23	0.185	185
168	10/29/2011 15:24	0.188	188
169	10/29/2011 15:25	0.204	204
170	10/29/2011 15:26	0.201	201
171	10/29/2011 15:27	0.19	190
172	10/29/2011 15:28	0.175	175
173	10/29/2011 15:29	0.174	174
174	10/29/2011 15:30	0.167	167
175	10/29/2011 15:31	0.166	166
176	10/29/2011 15:32	0.173	173
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203	10/29/2011 15:59	0.187	187
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205	10/29/2011 16:01	0.188	188
206	10/29/2011 16:02	0.185	185
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215	10/29/2011 16:11	0.192	192
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219	10/29/2011 16:15	0.193	193

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221	10/29/2011 16:17	0.19	190
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227	10/29/2011 16:23	0.203	203
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230	10/29/2011 16:26	0.197	197
231	10/29/2011 16:27	0.195	195
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238	10/29/2011 16:34	0.203	203
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243	10/29/2011 16:39	0.249	249
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248	10/29/2011 16:44	0.211	211
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251	10/29/2011 16:47	0.199	199
252	10/29/2011 16:48	0.202	202
253	10/29/2011 16:49	0.2	200
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255	10/29/2011 16:51	0.202	202
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257	10/29/2011 16:53	0.208	208
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262	10/29/2011 16:58	0.205	205
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264	10/29/2011 17:00	0.214	214
265	10/29/2011 17:01	0.211	211
266	10/29/2011 17:02	0.204	204
267	10/29/2011 17:03	0.206	206
268	10/29/2011 17:04	0.209	209
269	10/29/2011 17:05	0.206	206
270	10/29/2011 17:06	0.209	209
271	10/29/2011 17:07	0.208	208
272	10/29/2011 17:08	0.215	215
273	10/29/2011 17:09	0.214	214
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275	10/29/2011 17:11	0.202	202
276	10/29/2011 17:12	0.203	203
277	10/29/2011 17:13	0.202	202
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279	10/29/2011 17:15	0.215	215
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281	10/29/2011 17:17	0.221	221
282	10/29/2011 17:18	0.209	209
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285	10/29/2011 17:21	0.219	219
286	10/29/2011 17:22	0.216	216
287	10/29/2011 17:23	0.21	210
288	10/29/2011 17:24	0.208	208
289	10/29/2011 17:25	0.221	221
290	10/29/2011 17:26	0.218	218
291	10/29/2011 17:27	0.212	212
292	10/29/2011 17:28	0.22	220
293	10/29/2011 17:29	0.213	213
294	10/29/2011 17:30	0.224	224
295	10/29/2011 17:31	0.229	229
296	10/29/2011 17:32	0.221	221
297	10/29/2011 17:33	0.219	219
298	10/29/2011 17:34	0.222	222
299	10/29/2011 17:35	0.224	224

300	10/29/2011 17:36	0.227	227
301	10/29/2011 17:37	0.223	223
302	10/29/2011 17:38	0.223	223
303	10/29/2011 17:39	0.231	231
304	10/29/2011 17:40	0.219	219

==========Event #4 information (end)==========

==========Event #7 information (begin)==========

==========

[Event #7 name:]--[Event #7]2011-10-30 08:15<-->2011-10-30 15:58

[Event start time:]--2011-10-30 08:15:23[Event end time:]--2011-10-30 15:58:23

==========Event #7 head information==========

Product Name: MiniRAE 3000 Model Number: PGM-7320 Serial Number: 592-905367

Data Points: 463 Sample Period: 60 s Datalog Mode: Automatic

SITE ID: RAE00000 USER ID: 00000001 Op Mode: Hygiene Mode

==========

Sensor Information : PID(ppb)

Measurement Gas : Isobutene

Calibration Time : 2011-10-30 07:59:00

Drift Value : ---

Low Alarm Levels : 25847

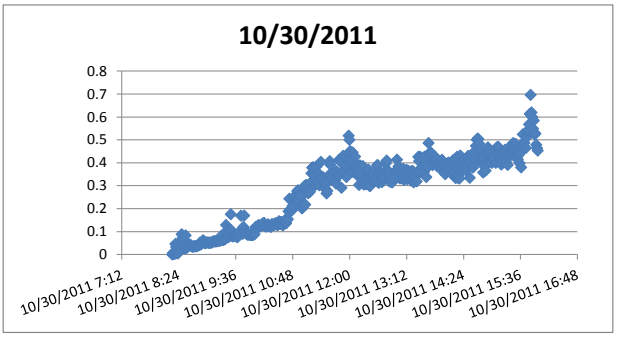
High Alarm Levels : 51694

Span Value : 100000

Correction Factor : 1.00

Over Alarm Levels : 15000000

==========Event #7 data informations==========



LINE#	Date/Time	PID(ppm)	PID(ppb)
1	10/30/2011 8:16	0	0
2	10/30/2011 8:17	0.007	7
3	10/30/2011 8:18	0.002	2
4	10/30/2011 8:19	0.003	3
5	10/30/2011 8:20	0.046	46
6	10/30/2011 8:21	0.033	33
7	10/30/2011 8:22	0.005	5
8	10/30/2011 8:23	0.007	7
9	10/30/2011 8:24	0.015	15
10	10/30/2011 8:25	0.011	11
11	10/30/2011 8:26	0.027	27
12	10/30/2011 8:27	0.055	55
13	10/30/2011 8:28	0.088	88
14	10/30/2011 8:29	0.071	71
15	10/30/2011 8:30	0.065	65
16	10/30/2011 8:31	0.032	32
17	10/30/2011 8:32	0.026	26
18	10/30/2011 8:33	0.083	83
19	10/30/2011 8:34	0.029	29
20	10/30/2011 8:35	0.031	31
21	10/30/2011 8:36	0.048	48
22	10/30/2011 8:37	0.04	40
23	10/30/2011 8:38	0.041	41
24	10/30/2011 8:39	0.043	43
25	10/30/2011 8:40	0.037	37
26	10/30/2011 8:41	0.034	34
27	10/30/2011 8:42	0.034	34
28	10/30/2011 8:43	0.035	35
29	10/30/2011 8:44	0.036	36
30	10/30/2011 8:45	0.035	35
31	10/30/2011 8:46	0.036	36
32	10/30/2011 8:47	0.036	36
33	10/30/2011 8:48	0.038	38
34	10/30/2011 8:49	0.039	39
35	10/30/2011 8:50	0.041	41
36	10/30/2011 8:51	0.052	52
37	10/30/2011 8:52	0.043	43
38	10/30/2011 8:53	0.049	49
39	10/30/2011 8:54	0.052	52
40	10/30/2011 8:55	0.062	62
41	10/30/2011 8:56	0.059	59
42	10/30/2011 8:57	0.049	49
43	10/30/2011 8:58	0.051	51
44	10/30/2011 8:59	0.05	50
45	10/30/2011 9:00	0.053	53
46	10/30/2011 9:01	0.053	53
47	10/30/2011 9:02	0.05	50
48	10/30/2011 9:03	0.052	52
49	10/30/2011 9:04	0.051	51
50	10/30/2011 9:05	0.051	51
51	10/30/2011 9:06	0.052	52
52	10/30/2011 9:07	0.056	56
53	10/30/2011 9:08	0.056	56
54	10/30/2011 9:09	0.058	58
55	10/30/2011 9:10	0.058	58
56	10/30/2011 9:11	0.056	56
57	10/30/2011 9:12	0.058	58
58	10/30/2011 9:13	0.058	58
59	10/30/2011 9:14	0.061	61

60	10/30/2011 9:15	0.061	61
61	10/30/2011 9:16	0.059	59
62	10/30/2011 9:17	0.067	67
63	10/30/2011 9:18	0.082	82
64	10/30/2011 9:19	0.063	63
65	10/30/2011 9:20	0.063	63
66	10/30/2011 9:21	0.065	65
67	10/30/2011 9:22	0.065	65
68	10/30/2011 9:23	0.068	68
69	10/30/2011 9:24	0.129	129
70	10/30/2011 9:25	0.104	104
71	10/30/2011 9:26	0.099	99
72	10/30/2011 9:27	0.075	75
73	10/30/2011 9:28	0.108	108
74	10/30/2011 9:29	0.082	82
75	10/30/2011 9:30	0.176	176
76	10/30/2011 9:31	0.105	105
77	10/30/2011 9:32	0.079	79
78	10/30/2011 9:33	0.078	78
79	10/30/2011 9:34	0.083	83
80	10/30/2011 9:35	0.083	83
81	10/30/2011 9:36	0.082	82
82	10/30/2011 9:37	0.078	78
83	10/30/2011 9:38	0.075	75
84	10/30/2011 9:39	0.078	78
85	10/30/2011 9:40	0.084	84
86	10/30/2011 9:41	0.085	85
87	10/30/2011 9:42	0.102	102
88	10/30/2011 9:43	0.169	169
89	10/30/2011 9:44	0.109	109
90	10/30/2011 9:45	0.09	90
91	10/30/2011 9:46	0.12	120
92	10/30/2011 9:47	0.17	170
93	10/30/2011 9:48	0.106	106
94	10/30/2011 9:49	0.094	94
95	10/30/2011 9:50	0.088	88
96	10/30/2011 9:51	0.087	87
97	10/30/2011 9:52	0.087	87
98	10/30/2011 9:53	0.087	87
99	10/30/2011 9:54	0.086	86
100	10/30/2011 9:55	0.085	85
101	10/30/2011 9:56	0.085	85
102	10/30/2011 9:57	0.084	84
103	10/30/2011 9:58	0.086	86
104	10/30/2011 9:59	0.087	87
105	10/30/2011 10:00	0.088	88
106	10/30/2011 10:01	0.118	118
107	10/30/2011 10:02	0.121	121
108	10/30/2011 10:03	0.117	117
109	10/30/2011 10:04	0.122	122
110	10/30/2011 10:05	0.129	129
111	10/30/2011 10:06	0.122	122
112	10/30/2011 10:07	0.126	126
113	10/30/2011 10:08	0.122	122
114	10/30/2011 10:09	0.131	131
115	10/30/2011 10:10	0.127	127
116	10/30/2011 10:11	0.137	137
117	10/30/2011 10:12	0.138	138
118	10/30/2011 10:13	0.124	124
119	10/30/2011 10:14	0.122	122
120	10/30/2011 10:15	0.123	123
121	10/30/2011 10:16	0.123	123
122	10/30/2011 10:17	0.132	132
123	10/30/2011 10:18	0.124	124
124	10/30/2011 10:19	0.124	124
125	10/30/2011 10:20	0.122	122
126	10/30/2011 10:21	0.12	120
127	10/30/2011 10:22	0.133	133
128	10/30/2011 10:23	0.127	127
129	10/30/2011 10:24	0.131	131
130	10/30/2011 10:25	0.128	128
131	10/30/2011 10:26	0.136	136
132	10/30/2011 10:27	0.135	135
133	10/30/2011 10:28	0.136	136
134	10/30/2011 10:29	0.127	127
135	10/30/2011 10:30	0.137	137
136	10/30/2011 10:31	0.145	145
137	10/30/2011 10:32	0.133	133
138	10/30/2011 10:33	0.142	142
139	10/30/2011 10:34	0.141	141

140	10/30/2011	10:35	0.132	132
141	10/30/2011	10:36	0.127	127
142	10/30/2011	10:37	0.137	137
143	10/30/2011	10:38	0.145	145
144	10/30/2011	10:39	0.141	141
145	10/30/2011	10:40	0.136	136
146	10/30/2011	10:41	0.158	158
147	10/30/2011	10:42	0.153	153
148	10/30/2011	10:43	0.188	188
149	10/30/2011	10:44	0.243	243
150	10/30/2011	10:45	0.195	195
151	10/30/2011	10:46	0.198	198
152	10/30/2011	10:47	0.192	192
153	10/30/2011	10:48	0.212	212
154	10/30/2011	10:49	0.247	247
155	10/30/2011	10:50	0.252	252
156	10/30/2011	10:51	0.232	232
157	10/30/2011	10:52	0.238	238
158	10/30/2011	10:53	0.231	231
159	10/30/2011	10:54	0.276	276
160	10/30/2011	10:55	0.28	280
161	10/30/2011	10:56	0.239	239
162	10/30/2011	10:57	0.26	260
163	10/30/2011	10:58	0.233	233
164	10/30/2011	10:59	0.252	252
165	10/30/2011	11:00	0.201	201
166	10/30/2011	11:01	0.205	205
167	10/30/2011	11:02	0.217	217
168	10/30/2011	11:03	0.298	298
169	10/30/2011	11:04	0.218	218
170	10/30/2011	11:05	0.303	303
171	10/30/2011	11:06	0.272	272
172	10/30/2011	11:07	0.276	276
173	10/30/2011	11:08	0.267	267
174	10/30/2011	11:09	0.29	290
175	10/30/2011	11:10	0.274	274
176	10/30/2011	11:11	0.314	314
177	10/30/2011	11:12	0.354	354
178	10/30/2011	11:13	0.379	379
179	10/30/2011	11:14	0.381	381
180	10/30/2011	11:15	0.355	355
181	10/30/2011	11:16	0.343	343
182	10/30/2011	11:17	0.303	303
183	10/30/2011	11:18	0.382	382
184	10/30/2011	11:19	0.308	308
185	10/30/2011	11:20	0.316	316
186	10/30/2011	11:21	0.353	353
187	10/30/2011	11:22	0.302	302
188	10/30/2011	11:23	0.333	333
189	10/30/2011	11:24	0.404	404
190	10/30/2011	11:25	0.338	338
191	10/30/2011	11:26	0.325	325
192	10/30/2011	11:27	0.336	336
193	10/30/2011	11:28	0.324	324
194	10/30/2011	11:29	0.289	289
195	10/30/2011	11:30	0.309	309
196	10/30/2011	11:31	0.266	266
197	10/30/2011	11:32	0.278	278
198	10/30/2011	11:33	0.326	326
199	10/30/2011	11:34	0.345	345
200	10/30/2011	11:35	0.407	407
201	10/30/2011	11:36	0.391	391
202	10/30/2011	11:37	0.337	337
203	10/30/2011	11:38	0.329	329
204	10/30/2011	11:39	0.336	336
205	10/30/2011	11:40	0.351	351
206	10/30/2011	11:41	0.358	358
207	10/30/2011	11:42	0.323	323
208	10/30/2011	11:43	0.309	309
209	10/30/2011	11:44	0.363	363
210	10/30/2011	11:45	0.34	340
211	10/30/2011	11:46	0.345	345
212	10/30/2011	11:47	0.414	414
213	10/30/2011	11:48	0.41	410
214	10/30/2011	11:49	0.404	404
215	10/30/2011	11:50	0.291	291
216	10/30/2011	11:51	0.356	356
217	10/30/2011	11:52	0.43	430
218	10/30/2011	11:53	0.371	371
219	10/30/2011	11:54	0.367	367

220	10/30/2011	11:55	0.387	387
221	10/30/2011	11:56	0.338	338
222	10/30/2011	11:57	0.413	413
223	10/30/2011	11:58	0.414	414
224	10/30/2011	11:59	0.518	518
225	10/30/2011	12:00	0.5	500
226	10/30/2011	12:01	0.451	451
227	10/30/2011	12:02	0.369	369
228	10/30/2011	12:03	0.411	411
229	10/30/2011	12:04	0.445	445
230	10/30/2011	12:05	0.359	359
231	10/30/2011	12:06	0.379	379
232	10/30/2011	12:07	0.427	427
233	10/30/2011	12:08	0.383	383
234	10/30/2011	12:09	0.393	393
235	10/30/2011	12:10	0.345	345
236	10/30/2011	12:11	0.355	355
237	10/30/2011	12:12	0.303	303
238	10/30/2011	12:13	0.389	389
239	10/30/2011	12:14	0.385	385
240	10/30/2011	12:15	0.348	348
241	10/30/2011	12:16	0.373	373
242	10/30/2011	12:17	0.386	386
243	10/30/2011	12:18	0.305	305
244	10/30/2011	12:19	0.324	324
245	10/30/2011	12:20	0.316	316
246	10/30/2011	12:21	0.307	307
247	10/30/2011	12:22	0.337	337
248	10/30/2011	12:23	0.339	339
249	10/30/2011	12:24	0.37	370
250	10/30/2011	12:25	0.301	301
251	10/30/2011	12:26	0.298	298
252	10/30/2011	12:27	0.349	349
253	10/30/2011	12:28	0.32	320
254	10/30/2011	12:29	0.352	352
255	10/30/2011	12:30	0.348	348
256	10/30/2011	12:31	0.32	320
257	10/30/2011	12:32	0.331	331
258	10/30/2011	12:33	0.373	373
259	10/30/2011	12:34	0.332	332
260	10/30/2011	12:35	0.39	390
261	10/30/2011	12:36	0.389	389
262	10/30/2011	12:37	0.312	312
263	10/30/2011	12:38	0.36	360
264	10/30/2011	12:39	0.354	354
265	10/30/2011	12:40	0.336	336
266	10/30/2011	12:41	0.316	316
267	10/30/2011	12:42	0.331	331
268	10/30/2011	12:43	0.341	341
269	10/30/2011	12:44	0.36	360
270	10/30/2011	12:45	0.356	356
271	10/30/2011	12:46	0.398	398
272	10/30/2011	12:47	0.41	410
273	10/30/2011	12:48	0.351	351
274	10/30/2011	12:49	0.364	364
275	10/30/2011	12:50	0.36	360
276	10/30/2011	12:51	0.317	317
277	10/30/2011	12:52	0.339	339
278	10/30/2011	12:53	0.324	324
279	10/30/2011	12:54	0.314	314
280	10/30/2011	12:55	0.34	340
281	10/30/2011	12:56	0.331	331
282	10/30/2011	12:57	0.36	360
283	10/30/2011	12:58	0.353	353
284	10/30/2011	12:59	0.341	341
285	10/30/2011	13:00	0.414	414
286	10/30/2011	13:01	0.362	362
287	10/30/2011	13:02	0.385	385
288	10/30/2011	13:03	0.374	374
289	10/30/2011	13:04	0.331	331
290	10/30/2011	13:05	0.361	361
291	10/30/2011	13:06	0.345	345
292	10/30/2011	13:07	0.348	348
293	10/30/2011	13:08	0.373	373
294	10/30/2011	13:09	0.325	325
295	10/30/2011	13:10	0.341	341
296	10/30/2011	13:11	0.363	363
297	10/30/2011	13:12	0.369	369
298	10/30/2011	13:13	0.329	329
299	10/30/2011	13:14	0.366	366

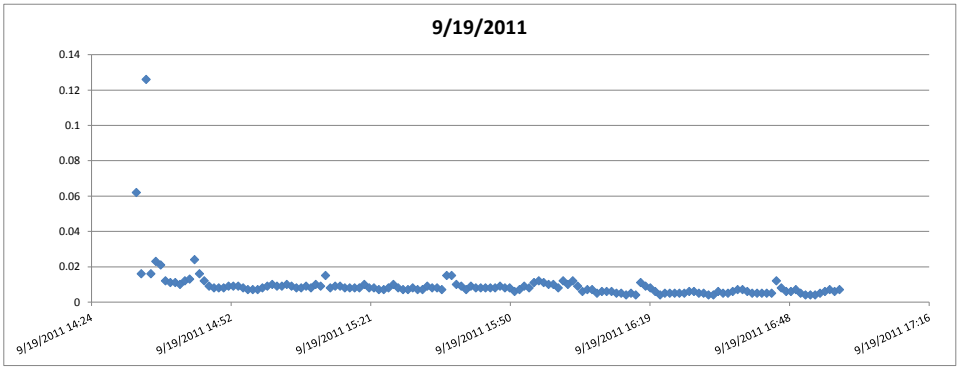
300	10/30/2011 13:15	0.338	338
301	10/30/2011 13:16	0.362	362
302	10/30/2011 13:17	0.35	350
303	10/30/2011 13:18	0.322	322
304	10/30/2011 13:19	0.364	364
305	10/30/2011 13:20	0.364	364
306	10/30/2011 13:21	0.315	315
307	10/30/2011 13:22	0.336	336
308	10/30/2011 13:23	0.349	349
309	10/30/2011 13:24	0.34	340
310	10/30/2011 13:25	0.319	319
311	10/30/2011 13:26	0.361	361
312	10/30/2011 13:27	0.426	426
313	10/30/2011 13:28	0.407	407
314	10/30/2011 13:29	0.426	426
315	10/30/2011 13:30	0.361	361
316	10/30/2011 13:31	0.422	422
317	10/30/2011 13:32	0.381	381
318	10/30/2011 13:33	0.382	382
319	10/30/2011 13:34	0.359	359
320	10/30/2011 13:35	0.427	427
321	10/30/2011 13:36	0.398	398
322	10/30/2011 13:37	0.338	338
323	10/30/2011 13:38	0.379	379
324	10/30/2011 13:39	0.382	382
325	10/30/2011 13:40	0.486	486
326	10/30/2011 13:41	0.424	424
327	10/30/2011 13:42	0.446	446
328	10/30/2011 13:43	0.444	444
329	10/30/2011 13:44	0.437	437
330	10/30/2011 13:45	0.39	390
331	10/30/2011 13:46	0.409	409
332	10/30/2011 13:47	0.422	422
333	10/30/2011 13:48	0.427	427
334	10/30/2011 13:49	0.394	394
335	10/30/2011 13:50	0.415	415
336	10/30/2011 13:51	0.385	385
337	10/30/2011 13:52	0.4	400
338	10/30/2011 13:53	0.396	396
339	10/30/2011 13:54	0.401	401
340	10/30/2011 13:55	0.401	401
341	10/30/2011 13:56	0.369	369
342	10/30/2011 13:57	0.413	413
343	10/30/2011 13:58	0.394	394
344	10/30/2011 13:59	0.383	383
345	10/30/2011 14:00	0.362	362
346	10/30/2011 14:01	0.35	350
347	10/30/2011 14:02	0.389	389
348	10/30/2011 14:03	0.395	395
349	10/30/2011 14:04	0.371	371
350	10/30/2011 14:05	0.401	401
351	10/30/2011 14:06	0.38	380
352	10/30/2011 14:07	0.369	369
353	10/30/2011 14:08	0.356	356
354	10/30/2011 14:09	0.377	377
355	10/30/2011 14:10	0.392	392
356	10/30/2011 14:11	0.411	411
357	10/30/2011 14:12	0.41	410
358	10/30/2011 14:13	0.358	358
359	10/30/2011 14:14	0.334	334
360	10/30/2011 14:15	0.396	396
361	10/30/2011 14:16	0.426	426
362	10/30/2011 14:17	0.334	334
363	10/30/2011 14:18	0.345	345
364	10/30/2011 14:19	0.331	331
365	10/30/2011 14:20	0.432	432
366	10/30/2011 14:21	0.402	402
367	10/30/2011 14:22	0.38	380
368	10/30/2011 14:23	0.4	400
369	10/30/2011 14:24	0.378	378
370	10/30/2011 14:25	0.412	412
371	10/30/2011 14:26	0.398	398
372	10/30/2011 14:27	0.394	394
373	10/30/2011 14:28	0.365	365
374	10/30/2011 14:29	0.386	386
375	10/30/2011 14:30	0.43	430
376	10/30/2011 14:31	0.414	414
377	10/30/2011 14:32	0.335	335
378	10/30/2011 14:33	0.404	404
379	10/30/2011 14:34	0.389	389

380	10/30/2011 14:35	0.427	427
381	10/30/2011 14:36	0.379	379
382	10/30/2011 14:37	0.446	446
383	10/30/2011 14:38	0.397	397
384	10/30/2011 14:39	0.417	417
385	10/30/2011 14:40	0.474	474
386	10/30/2011 14:41	0.5	500
387	10/30/2011 14:42	0.506	506
388	10/30/2011 14:43	0.503	503
389	10/30/2011 14:44	0.483	483
390	10/30/2011 14:45	0.443	443
391	10/30/2011 14:46	0.453	453
392	10/30/2011 14:47	0.414	414
393	10/30/2011 14:48	0.42	420
394	10/30/2011 14:49	0.358	358
395	10/30/2011 14:50	0.389	389
396	10/30/2011 14:51	0.383	383
397	10/30/2011 14:52	0.366	366
398	10/30/2011 14:53	0.449	449
399	10/30/2011 14:54	0.452	452
400	10/30/2011 14:55	0.467	467
401	10/30/2011 14:56	0.44	440
402	10/30/2011 14:57	0.457	457
403	10/30/2011 14:58	0.412	412
404	10/30/2011 14:59	0.41	410
405	10/30/2011 15:00	0.4	400
406	10/30/2011 15:01	0.42	420
407	10/30/2011 15:02	0.419	419
408	10/30/2011 15:03	0.416	416
409	10/30/2011 15:04	0.453	453
410	10/30/2011 15:05	0.4	400
411	10/30/2011 15:06	0.466	466
412	10/30/2011 15:07	0.468	468
413	10/30/2011 15:08	0.47	470
414	10/30/2011 15:09	0.414	414
415	10/30/2011 15:10	0.442	442
416	10/30/2011 15:11	0.417	417
417	10/30/2011 15:12	0.392	392
418	10/30/2011 15:13	0.406	406
419	10/30/2011 15:14	0.439	439
420	10/30/2011 15:15	0.445	445
421	10/30/2011 15:16	0.419	419
422	10/30/2011 15:17	0.457	457
423	10/30/2011 15:18	0.402	402
424	10/30/2011 15:19	0.426	426
425	10/30/2011 15:20	0.391	391
426	10/30/2011 15:21	0.465	465
427	10/30/2011 15:22	0.435	435
428	10/30/2011 15:23	0.45	450
429	10/30/2011 15:24	0.443	443
430	10/30/2011 15:25	0.434	434
431	10/30/2011 15:26	0.458	458
432	10/30/2011 15:27	0.486	486
433	10/30/2011 15:28	0.477	477
434	10/30/2011 15:29	0.462	462
435	10/30/2011 15:30	0.482	482
436	10/30/2011 15:31	0.449	449
437	10/30/2011 15:32	0.427	427
438	10/30/2011 15:33	0.414	414
439	10/30/2011 15:34	0.435	435
440	10/30/2011 15:35	0.398	398
441	10/30/2011 15:36	0.445	445
442	10/30/2011 15:37	0.38	380
443	10/30/2011 15:38	0.481	481
444	10/30/2011 15:39	0.524	524
445	10/30/2011 15:40	0.485	485
446	10/30/2011 15:41	0.487	487
447	10/30/2011 15:42	0.464	464
448	10/30/2011 15:43	0.465	465
449	10/30/2011 15:44	0.511	511
450	10/30/2011 15:45	0.541	541
451	10/30/2011 15:46	0.537	537
452	10/30/2011 15:47	0.568	568
453	10/30/2011 15:48	0.613	613
454	10/30/2011 15:49	0.696	696
455	10/30/2011 15:50	0.62	620
456	10/30/2011 15:51	0.599	599
457	10/30/2011 15:52	0.549	549
458	10/30/2011 15:53	0.584	584
459	10/30/2011 15:54	0.524	524

460	10/30/2011 15:55	0.527	527
461	10/30/2011 15:56	0.479	479
462	10/30/2011 15:57	0.464	464
463	10/30/2011 15:58	0.453	453

==========Event #7 information (end)==========

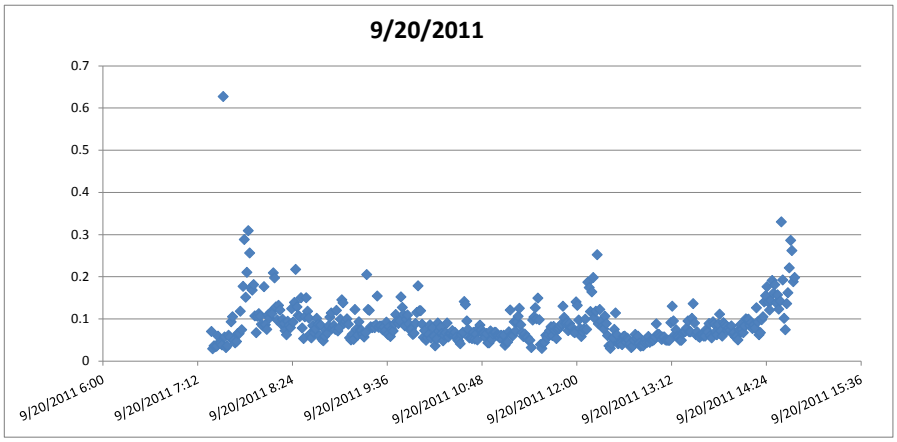
Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_001
Test Start Time	2:32:17 PM
Test Start Date	9/19/2011
Test Length [D:H:M]	0:02:26
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.007
PM1 Minimum [mg/m3]	0.004
PM1 Maximum [mg/m3]	0.048
PM1 TWA [mg/m3]	0.002
PM2.5 Average [mg/m3]	0.007
PM2.5 Minimum [mg/m3]	0.004
PM2.5 Maximum [mg/m3]	0.05
PM2.5 TWA [mg/m3]	0.002
PM4 Average [mg/m3]	0.008
PM4 Minimum [mg/m3]	0.004
PM4 Maximum [mg/m3]	0.054
PM4 TWA [mg/m3]	0.002
PM10 Average [mg/m3]	0.009
PM10 Minimum [mg/m3]	0.004
PM10 Maximum [mg/m3]	0.089
PM10 TWA [mg/m3]	0.003
TOTAL Average [mg/m3]	0.009
TOTAL Minimum [mg/m3]	0.004
TOTAL Maximum [mg/m3]	0.126
TOTAL TWA [mg/m3]	0.003
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	146



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	Time/Date	TOTAL [mg/m3]	2:32:17 PM	Alarms	Errors
60	0.021	0.021	0.023	0.042	9/19/2011 14:33	0.062	2:33:17 PM		
120	0.011	0.011	0.012	0.015	9/19/2011 14:34	0.016	2:34:17 PM		
180	0.048	0.05	0.054	0.089	9/19/2011 14:35	0.126	2:35:17 PM		
240	0.01	0.01	0.011	0.013	9/19/2011 14:36	0.016	2:36:17 PM		
300	0.013	0.014	0.015	0.021	9/19/2011 14:37	0.023	2:37:17 PM		
360	0.013	0.014	0.014	0.018	9/19/2011 14:38	0.021	2:38:17 PM		
420	0.011	0.011	0.011	0.012	9/19/2011 14:39	0.012	2:39:17 PM		
480	0.01	0.01	0.01	0.011	9/19/2011 14:40	0.011	2:40:17 PM		
540	0.01	0.01	0.01	0.011	9/19/2011 14:41	0.011	2:41:17 PM		
600	0.009	0.009	0.01	0.01	9/19/2011 14:42	0.01	2:42:17 PM		
660	0.009	0.01	0.01	0.012	9/19/2011 14:43	0.012	2:43:17 PM		
720	0.009	0.01	0.01	0.012	9/19/2011 14:44	0.013	2:44:17 PM		
780	0.015	0.015	0.017	0.022	9/19/2011 14:45	0.024	2:45:17 PM		
840	0.013	0.013	0.014	0.015	9/19/2011 14:46	0.016	2:46:17 PM		
900	0.011	0.011	0.011	0.012	9/19/2011 14:47	0.012	2:47:17 PM		
960	0.008	0.008	0.009	0.009	9/19/2011 14:48	0.009	2:48:17 PM		
1020	0.008	0.008	0.008	0.008	9/19/2011 14:49	0.008	2:49:17 PM		
1080	0.008	0.008	0.008	0.008	9/19/2011 14:50	0.008	2:50:17 PM		
1140	0.008	0.008	0.008	0.008	9/19/2011 14:51	0.008	2:51:17 PM		
1200	0.007	0.008	0.008	0.009	9/19/2011 14:52	0.009	2:52:17 PM		
1260	0.008	0.008	0.009	0.009	9/19/2011 14:53	0.009	2:53:17 PM		
1320	0.008	0.008	0.008	0.009	9/19/2011 14:54	0.009	2:54:17 PM		
1380	0.007	0.007	0.007	0.008	9/19/2011 14:55	0.008	2:55:17 PM		
1440	0.007	0.007	0.007	0.007	9/19/2011 14:56	0.007	2:56:17 PM		
1500	0.007	0.007	0.007	0.007	9/19/2011 14:57	0.007	2:57:17 PM		
1560	0.007	0.007	0.007	0.007	9/19/2011 14:58	0.007	2:58:17 PM		
1620	0.007	0.007	0.008	0.008	9/19/2011 14:59	0.008	2:59:17 PM		
1680	0.008	0.008	0.008	0.008	9/19/2011 15:00	0.009	3:00:17 PM		
1740	0.008	0.009	0.009	0.01	9/19/2011 15:01	0.01	3:01:17 PM		
1800	0.008	0.009	0.009	0.009	9/19/2011 15:02	0.009	3:02:17 PM		
1860	0.008	0.009	0.009	0.009	9/19/2011 15:03	0.009	3:03:17 PM		
1920	0.009	0.009	0.009	0.009	9/19/2011 15:04	0.01	3:04:17 PM		
1980	0.008	0.009	0.009	0.009	9/19/2011 15:05	0.009	3:05:17 PM		
2040	0.008	0.008	0.008	0.008	9/19/2011 15:06	0.008	3:06:17 PM		
2100	0.008	0.008	0.008	0.008	9/19/2011 15:07	0.008	3:07:17 PM		
2160	0.008	0.008	0.008	0.009	9/19/2011 15:08	0.009	3:08:17 PM		
2220	0.007	0.008	0.008	0.008	9/19/2011 15:09	0.008	3:09:17 PM		
2280	0.009	0.009	0.009	0.01	9/19/2011 15:10	0.01	3:10:17 PM		
2340	0.008	0.008	0.008	0.009	9/19/2011 15:11	0.009	3:11:17 PM		
2400	0.01	0.01	0.01	0.012	9/19/2011 15:12	0.015	3:12:17 PM		
2460	0.008	0.008	0.008	0.008	9/19/2011 15:13	0.008	3:13:17 PM		
2520	0.008	0.008	0.008	0.009	9/19/2011 15:14	0.009	3:14:17 PM		
2580	0.008	0.008	0.008	0.009	9/19/2011 15:15	0.009	3:15:17 PM		
2640	0.007	0.008	0.008	0.008	9/19/2011 15:16	0.008	3:16:17 PM		
2700	0.007	0.008	0.008	0.008	9/19/2011 15:17	0.008	3:17:17 PM		
2760	0.007	0.007	0.007	0.008	9/19/2011 15:18	0.008	3:18:17 PM		
2820	0.007	0.007	0.008	0.008	9/19/2011 15:19	0.008	3:19:17 PM		
2880	0.009	0.009	0.009	0.01	9/19/2011 15:20	0.01	3:20:17 PM		
2940	0.007	0.008	0.008	0.008	9/19/2011 15:21	0.008	3:21:17 PM		
3000	0.007	0.007	0.007	0.008	9/19/2011 15:22	0.008	3:22:17 PM		
3060	0.007	0.007	0.007	0.007	9/19/2011 15:23	0.007	3:23:17 PM		
3120	0.007	0.007	0.007	0.007	9/19/2011 15:24	0.007	3:24:17 PM		
3180	0.008	0.008	0.008	0.008	9/19/2011 15:25	0.008	3:25:17 PM		
3240	0.008	0.008	0.009	0.01	9/19/2011 15:26	0.01	3:26:17 PM		
3300	0.007	0.007	0.007	0.008	9/19/2011 15:27	0.008	3:27:17 PM		
3360	0.006	0.006	0.006	0.007	9/19/2011 15:28	0.007	3:28:17 PM		
3420	0.006	0.007	0.007	0.007	9/19/2011 15:29	0.007	3:29:17 PM		
3480	0.007	0.007	0.008	0.008	9/19/2011 15:30	0.008	3:30:17 PM		
3540	0.007	0.007	0.007	0.007	9/19/2011 15:31	0.007	3:31:17 PM		
3600	0.007	0.007	0.007	0.007	9/19/2011 15:32	0.007	3:32:17 PM		
3660	0.008	0.008	0.008	0.009	9/19/2011 15:33	0.009	3:33:17 PM		
3720	0.008	0.008	0.008	0.008	9/19/2011 15:34	0.008	3:34:17 PM		
3780	0.007	0.007	0.007	0.008	9/19/2011 15:35	0.008	3:35:17 PM		
3840	0.007	0.007	0.007	0.007	9/19/2011 15:36	0.007	3:36:17 PM		
3900	0.01	0.011	0.013	0.015	9/19/2011 15:37	0.015	3:37:17 PM		
3960	0.011	0.011	0.013	0.015	9/19/2011 15:38	0.015	3:38:17 PM		
4020	0.008	0.008	0.009	0.01	9/19/2011 15:39	0.01	3:39:17 PM		
4080	0.007	0.007	0.007	0.009	9/19/2011 15:40	0.009	3:40:17 PM		

4140	0.006	0.007	0.007	0.007	9/19/2011 15:41	0.007	3:41:17 PM
4200	0.008	0.008	0.008	0.009	9/19/2011 15:42	0.009	3:42:17 PM
4260	0.007	0.007	0.008	0.008	9/19/2011 15:43	0.008	3:43:17 PM
4320	0.007	0.007	0.007	0.007	9/19/2011 15:44	0.008	3:44:17 PM
4380	0.007	0.007	0.007	0.008	9/19/2011 15:45	0.008	3:45:17 PM
4440	0.007	0.007	0.007	0.007	9/19/2011 15:46	0.008	3:46:17 PM
4500	0.007	0.007	0.007	0.007	9/19/2011 15:47	0.008	3:47:17 PM
4560	0.007	0.007	0.008	0.008	9/19/2011 15:48	0.009	3:48:17 PM
4620	0.007	0.007	0.007	0.008	9/19/2011 15:49	0.008	3:49:17 PM
4680	0.006	0.006	0.007	0.007	9/19/2011 15:50	0.008	3:50:17 PM
4740	0.005	0.006	0.006	0.006	9/19/2011 15:51	0.006	3:51:17 PM
4800	0.007	0.007	0.007	0.007	9/19/2011 15:52	0.007	3:52:17 PM
4860	0.007	0.008	0.008	0.009	9/19/2011 15:53	0.009	3:53:17 PM
4920	0.007	0.007	0.007	0.008	9/19/2011 15:54	0.008	3:54:17 PM
4980	0.009	0.009	0.009	0.011	9/19/2011 15:55	0.011	3:55:17 PM
5040	0.009	0.01	0.01	0.011	9/19/2011 15:56	0.012	3:56:17 PM
5100	0.009	0.009	0.01	0.011	9/19/2011 15:57	0.011	3:57:17 PM
5160	0.009	0.009	0.009	0.01	9/19/2011 15:58	0.01	3:58:17 PM
5220	0.008	0.008	0.008	0.01	9/19/2011 15:59	0.01	3:59:17 PM
5280	0.007	0.007	0.008	0.008	9/19/2011 16:00	0.008	4:00:17 PM
5340	0.008	0.009	0.009	0.012	9/19/2011 16:01	0.012	4:01:17 PM
5400	0.008	0.008	0.009	0.01	9/19/2011 16:02	0.01	4:02:17 PM
5460	0.01	0.01	0.011	0.012	9/19/2011 16:03	0.012	4:03:17 PM
5520	0.008	0.008	0.008	0.009	9/19/2011 16:04	0.009	4:04:17 PM
5580	0.006	0.006	0.006	0.006	9/19/2011 16:05	0.006	4:05:17 PM
5640	0.006	0.007	0.007	0.007	9/19/2011 16:06	0.007	4:06:17 PM
5700	0.007	0.007	0.007	0.007	9/19/2011 16:07	0.007	4:07:17 PM
5760	0.005	0.005	0.005	0.005	9/19/2011 16:08	0.005	4:08:17 PM
5820	0.005	0.005	0.006	0.006	9/19/2011 16:09	0.006	4:09:17 PM
5880	0.006	0.006	0.006	0.006	9/19/2011 16:10	0.006	4:10:17 PM
5940	0.006	0.006	0.006	0.006	9/19/2011 16:11	0.006	4:11:17 PM
6000	0.005	0.005	0.005	0.005	9/19/2011 16:12	0.005	4:12:17 PM
6060	0.005	0.005	0.005	0.005	9/19/2011 16:13	0.005	4:13:17 PM
6120	0.004	0.004	0.004	0.004	9/19/2011 16:14	0.004	4:14:17 PM
6180	0.004	0.004	0.004	0.005	9/19/2011 16:15	0.005	4:15:17 PM
6240	0.004	0.004	0.004	0.004	9/19/2011 16:16	0.004	4:16:17 PM
6300	0.006	0.007	0.008	0.01	9/19/2011 16:17	0.011	4:17:17 PM
6360	0.006	0.006	0.007	0.009	9/19/2011 16:18	0.009	4:18:17 PM
6420	0.005	0.006	0.006	0.007	9/19/2011 16:19	0.008	4:19:17 PM
6480	0.004	0.005	0.005	0.006	9/19/2011 16:20	0.006	4:20:17 PM
6540	0.004	0.004	0.004	0.004	9/19/2011 16:21	0.004	4:21:17 PM
6600	0.004	0.004	0.004	0.005	9/19/2011 16:22	0.005	4:22:17 PM
6660	0.004	0.004	0.005	0.005	9/19/2011 16:23	0.005	4:23:17 PM
6720	0.004	0.004	0.005	0.005	9/19/2011 16:24	0.005	4:24:17 PM
6780	0.004	0.004	0.005	0.005	9/19/2011 16:25	0.005	4:25:17 PM
6840	0.004	0.004	0.005	0.005	9/19/2011 16:26	0.005	4:26:17 PM
6900	0.005	0.005	0.005	0.006	9/19/2011 16:27	0.006	4:27:17 PM
6960	0.005	0.005	0.005	0.006	9/19/2011 16:28	0.006	4:28:17 PM
7020	0.004	0.004	0.004	0.005	9/19/2011 16:29	0.005	4:29:17 PM
7080	0.004	0.004	0.005	0.005	9/19/2011 16:30	0.005	4:30:17 PM
7140	0.004	0.004	0.004	0.004	9/19/2011 16:31	0.004	4:31:17 PM
7200	0.004	0.004	0.004	0.004	9/19/2011 16:32	0.004	4:32:17 PM
7260	0.004	0.004	0.005	0.006	9/19/2011 16:33	0.006	4:33:17 PM
7320	0.005	0.005	0.005	0.005	9/19/2011 16:34	0.005	4:34:17 PM
7380	0.005	0.005	0.005	0.005	9/19/2011 16:35	0.005	4:35:17 PM
7440	0.005	0.005	0.005	0.006	9/19/2011 16:36	0.006	4:36:17 PM
7500	0.005	0.006	0.006	0.007	9/19/2011 16:37	0.007	4:37:17 PM
7560	0.005	0.005	0.006	0.007	9/19/2011 16:38	0.007	4:38:17 PM
7620	0.005	0.005	0.005	0.006	9/19/2011 16:39	0.006	4:39:17 PM
7680	0.004	0.004	0.004	0.005	9/19/2011 16:40	0.005	4:40:17 PM
7740	0.004	0.004	0.004	0.005	9/19/2011 16:41	0.005	4:41:17 PM
7800	0.005	0.005	0.005	0.005	9/19/2011 16:42	0.005	4:42:17 PM
7860	0.004	0.005	0.005	0.005	9/19/2011 16:43	0.005	4:43:17 PM
7920	0.004	0.004	0.005	0.005	9/19/2011 16:44	0.005	4:44:17 PM
7980	0.008	0.009	0.009	0.011	9/19/2011 16:45	0.012	4:45:17 PM
8040	0.006	0.006	0.007	0.008	9/19/2011 16:46	0.008	4:46:17 PM
8100	0.005	0.005	0.005	0.006	9/19/2011 16:47	0.006	4:47:17 PM
8160	0.005	0.005	0.005	0.005	9/19/2011 16:48	0.006	4:48:17 PM
8220	0.005	0.005	0.006	0.007	9/19/2011 16:49	0.007	4:49:17 PM
8280	0.004	0.004	0.005	0.005	9/19/2011 16:50	0.005	4:50:17 PM
8340	0.004	0.004	0.004	0.004	9/19/2011 16:51	0.004	4:51:17 PM
8400	0.004	0.004	0.004	0.004	9/19/2011 16:52	0.004	4:52:17 PM
8460	0.004	0.004	0.004	0.004	9/19/2011 16:53	0.004	4:53:17 PM
8520	0.004	0.004	0.005	0.005	9/19/2011 16:54	0.005	4:54:17 PM
8580	0.005	0.005	0.006	0.006	9/19/2011 16:55	0.006	4:55:17 PM
8640	0.005	0.005	0.005	0.006	9/19/2011 16:56	0.007	4:56:17 PM
8700	0.005	0.005	0.005	0.006	9/19/2011 16:57	0.006	4:57:17 PM
8760	0.005	0.006	0.006	0.007	9/19/2011 16:58	0.007	4:58:17 PM

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_002
Test Start Time	7:21:31 AM
Test Start Date	9/20/2011
Test Length [D:H:M]	0:07:24
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.058
PM1 Minimum [mg/m3]	0.019
PM1 Maximum [mg/m3]	0.268
PM1 TWA [mg/m3]	0.054
PM2.5 Average [mg/m3]	0.062
PM2.5 Minimum [mg/m3]	0.02
PM2.5 Maximum [mg/m3]	0.287
PM2.5 TWA [mg/m3]	0.057
PM4 Average [mg/m3]	0.067
PM4 Minimum [mg/m3]	0.023
PM4 Maximum [mg/m3]	0.351
PM4 TWA [mg/m3]	0.062
PM10 Average [mg/m3]	0.084
PM10 Minimum [mg/m3]	0.029
PM10 Maximum [mg/m3]	0.585
PM10 TWA [mg/m3]	0.078
TOTAL Average [mg/m3]	0.088
TOTAL Minimum [mg/m3]	0.029
TOTAL Maximum [mg/m3]	0.627
TOTAL TWA [mg/m3]	0.081
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	444



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	Date/Time	TOTAL [mg/m3]	7:21:31 AM	Alarms	Errors
60	0.037	0.039	0.043	0.06	9/20/2011 7:22	0.07	7:22:31 AM		
120	0.019	0.02	0.023	0.029	9/20/2011 7:23	0.029	7:23:31 AM		
180	0.022	0.024	0.027	0.035	9/20/2011 7:24	0.036	7:24:31 AM		
240	0.02	0.022	0.025	0.032	9/20/2011 7:25	0.034	7:25:31 AM		
300	0.021	0.023	0.026	0.033	9/20/2011 7:26	0.035	7:26:31 AM		
360	0.032	0.034	0.04	0.055	9/20/2011 7:27	0.059	7:27:31 AM		
420	0.024	0.027	0.03	0.041	9/20/2011 7:28	0.044	7:28:31 AM		
480	0.024	0.026	0.03	0.041	9/20/2011 7:29	0.042	7:29:31 AM		
540	0.021	0.022	0.026	0.036	9/20/2011 7:30	0.038	7:30:31 AM		
600	0.268	0.287	0.351	0.585	9/20/2011 7:31	0.627	7:31:31 AM		
660	0.029	0.031	0.037	0.054	9/20/2011 7:32	0.057	7:32:31 AM		
720	0.019	0.02	0.023	0.031	9/20/2011 7:33	0.032	7:33:31 AM		
780	0.02	0.022	0.025	0.034	9/20/2011 7:34	0.036	7:34:31 AM		
840	0.032	0.035	0.043	0.058	9/20/2011 7:35	0.061	7:35:31 AM		
900	0.033	0.036	0.042	0.056	9/20/2011 7:36	0.057	7:36:31 AM		
960	0.048	0.052	0.061	0.088	9/20/2011 7:37	0.093	7:37:31 AM		
1020	0.054	0.058	0.067	0.1	9/20/2011 7:38	0.105	7:38:31 AM		
1080	0.029	0.032	0.035	0.043	9/20/2011 7:39	0.049	7:39:31 AM		
1140	0.029	0.032	0.035	0.042	9/20/2011 7:40	0.043	7:40:31 AM		
1200	0.031	0.034	0.037	0.044	9/20/2011 7:41	0.046	7:41:31 AM		
1260	0.043	0.047	0.052	0.063	9/20/2011 7:42	0.065	7:42:31 AM		
1320	0.039	0.042	0.047	0.061	9/20/2011 7:43	0.065	7:43:31 AM		
1380	0.07	0.075	0.083	0.111	9/20/2011 7:44	0.118	7:44:31 AM		
1440	0.046	0.05	0.056	0.071	9/20/2011 7:45	0.074	7:45:31 AM		
1500	0.088	0.097	0.113	0.166	9/20/2011 7:46	0.177	7:46:31 AM		
1560	0.132	0.146	0.176	0.264	9/20/2011 7:47	0.288	7:47:31 AM		
1620	0.074	0.082	0.097	0.142	9/20/2011 7:48	0.151	7:48:31 AM		
1680	0.097	0.106	0.126	0.195	9/20/2011 7:49	0.21	7:49:31 AM		
1740	0.138	0.151	0.179	0.283	9/20/2011 7:50	0.309	7:50:31 AM		
1800	0.118	0.129	0.151	0.24	9/20/2011 7:51	0.256	7:51:31 AM		
1860	0.087	0.094	0.108	0.162	9/20/2011 7:52	0.173	7:52:31 AM		
1920	0.092	0.1	0.114	0.159	9/20/2011 7:53	0.168	7:53:31 AM		
1980	0.102	0.111	0.125	0.17	9/20/2011 7:54	0.181	7:54:31 AM		
2040	0.064	0.069	0.078	0.103	9/20/2011 7:55	0.107	7:55:31 AM		
2100	0.042	0.046	0.051	0.063	9/20/2011 7:56	0.067	7:56:31 AM		
2160	0.061	0.066	0.075	0.099	9/20/2011 7:57	0.106	7:57:31 AM		
2220	0.069	0.076	0.085	0.109	9/20/2011 7:58	0.112	7:58:31 AM		
2280	0.071	0.077	0.084	0.101	9/20/2011 7:59	0.106	7:59:31 AM		
2340	0.062	0.067	0.072	0.084	9/20/2011 8:00	0.087	8:00:31 AM		
2400	0.056	0.061	0.067	0.08	9/20/2011 8:01	0.083	8:01:31 AM		
2460	0.098	0.107	0.121	0.164	9/20/2011 8:02	0.176	8:02:31 AM		
2520	0.052	0.056	0.063	0.082	9/20/2011 8:03	0.086	8:03:31 AM		
2580	0.049	0.054	0.059	0.071	9/20/2011 8:04	0.075	8:04:31 AM		
2640	0.078	0.084	0.09	0.107	9/20/2011 8:05	0.109	8:05:31 AM		
2700	0.073	0.08	0.086	0.1	9/20/2011 8:06	0.102	8:06:31 AM		
2760	0.081	0.089	0.097	0.112	9/20/2011 8:07	0.115	8:07:31 AM		
2820	0.081	0.088	0.097	0.11	9/20/2011 8:08	0.112	8:08:31 AM		
2880	0.116	0.125	0.141	0.2	9/20/2011 8:09	0.209	8:09:31 AM		
2940	0.097	0.104	0.119	0.181	9/20/2011 8:10	0.197	8:10:31 AM		
3000	0.073	0.079	0.088	0.119	9/20/2011 8:11	0.128	8:11:31 AM		

3060	0.059	0.064	0.071	0.092	9/20/2011 8:12	0.097	8:12:31 AM
3120	0.084	0.09	0.099	0.125	9/20/2011 8:13	0.132	8:13:31 AM
3180	0.078	0.084	0.092	0.116	9/20/2011 8:14	0.121	8:14:31 AM
3240	0.052	0.057	0.063	0.082	9/20/2011 8:15	0.088	8:15:31 AM
3300	0.059	0.065	0.071	0.094	9/20/2011 8:16	0.099	8:16:31 AM
3360	0.05	0.055	0.061	0.082	9/20/2011 8:17	0.089	8:17:31 AM
3420	0.043	0.047	0.051	0.067	9/20/2011 8:18	0.072	8:18:31 AM
3480	0.041	0.044	0.048	0.059	9/20/2011 8:19	0.062	8:19:31 AM
3540	0.06	0.065	0.071	0.091	9/20/2011 8:20	0.094	8:20:31 AM
3600	0.057	0.061	0.066	0.079	9/20/2011 8:21	0.085	8:21:31 AM
3660	0.057	0.062	0.066	0.077	9/20/2011 8:22	0.079	8:22:31 AM
3720	0.096	0.102	0.107	0.12	9/20/2011 8:23	0.124	8:23:31 AM
3780	0.07	0.074	0.078	0.09	9/20/2011 8:24	0.092	8:24:31 AM
3840	0.082	0.088	0.096	0.13	9/20/2011 8:25	0.139	8:25:31 AM
3900	0.106	0.114	0.13	0.195	9/20/2011 8:26	0.217	8:26:31 AM
3960	0.073	0.079	0.088	0.12	9/20/2011 8:27	0.128	8:27:31 AM
4020	0.069	0.075	0.081	0.103	9/20/2011 8:28	0.108	8:28:31 AM
4080	0.067	0.073	0.079	0.099	9/20/2011 8:29	0.105	8:29:31 AM
4140	0.099	0.104	0.113	0.14	9/20/2011 8:30	0.15	8:30:31 AM
4200	0.055	0.059	0.063	0.076	9/20/2011 8:31	0.078	8:31:31 AM
4260	0.039	0.042	0.045	0.052	9/20/2011 8:32	0.053	8:32:31 AM
4320	0.065	0.07	0.077	0.1	9/20/2011 8:33	0.105	8:33:31 AM
4380	0.088	0.094	0.106	0.144	9/20/2011 8:34	0.15	8:34:31 AM
4440	0.073	0.078	0.087	0.112	9/20/2011 8:35	0.118	8:35:31 AM
4500	0.066	0.072	0.078	0.098	9/20/2011 8:36	0.102	8:36:31 AM
4560	0.045	0.048	0.052	0.064	9/20/2011 8:37	0.064	8:37:31 AM
4620	0.041	0.044	0.047	0.054	9/20/2011 8:38	0.055	8:38:31 AM
4680	0.062	0.067	0.072	0.082	9/20/2011 8:39	0.084	8:39:31 AM
4740	0.048	0.052	0.055	0.066	9/20/2011 8:40	0.067	8:40:31 AM
4800	0.06	0.064	0.068	0.075	9/20/2011 8:41	0.076	8:41:31 AM
4860	0.078	0.082	0.087	0.098	9/20/2011 8:42	0.101	8:42:31 AM
4920	0.059	0.063	0.068	0.084	9/20/2011 8:43	0.087	8:43:31 AM
4980	0.042	0.045	0.049	0.058	9/20/2011 8:44	0.06	8:44:31 AM
5040	0.059	0.064	0.07	0.083	9/20/2011 8:45	0.085	8:45:31 AM
5100	0.038	0.041	0.045	0.051	9/20/2011 8:46	0.052	8:46:31 AM
5160	0.033	0.036	0.038	0.046	9/20/2011 8:47	0.048	8:47:31 AM
5220	0.037	0.04	0.044	0.055	9/20/2011 8:48	0.059	8:48:31 AM
5280	0.043	0.047	0.052	0.07	9/20/2011 8:49	0.072	8:49:31 AM
5340	0.041	0.045	0.049	0.062	9/20/2011 8:50	0.066	8:50:31 AM
5400	0.056	0.061	0.066	0.08	9/20/2011 8:51	0.083	8:51:31 AM
5460	0.072	0.077	0.083	0.101	9/20/2011 8:52	0.104	8:52:31 AM
5520	0.074	0.079	0.086	0.109	9/20/2011 8:53	0.114	8:53:31 AM
5580	0.053	0.056	0.06	0.074	9/20/2011 8:54	0.078	8:54:31 AM
5640	0.058	0.062	0.067	0.081	9/20/2011 8:55	0.084	8:55:31 AM
5700	0.048	0.051	0.056	0.071	9/20/2011 8:56	0.075	8:56:31 AM
5760	0.073	0.077	0.084	0.11	9/20/2011 8:57	0.12	8:57:31 AM
5820	0.046	0.05	0.054	0.068	9/20/2011 8:58	0.071	8:58:31 AM
5880	0.047	0.051	0.055	0.072	9/20/2011 8:59	0.078	8:59:31 AM
5940	0.058	0.062	0.069	0.095	9/20/2011 9:00	0.099	9:00:31 AM
6000	0.075	0.08	0.091	0.13	9/20/2011 9:01	0.145	9:01:31 AM
6060	0.074	0.08	0.089	0.126	9/20/2011 9:02	0.138	9:02:31 AM
6120	0.054	0.058	0.064	0.085	9/20/2011 9:03	0.09	9:03:31 AM
6180	0.052	0.056	0.062	0.09	9/20/2011 9:04	0.094	9:04:31 AM
6240	0.061	0.066	0.072	0.096	9/20/2011 9:05	0.1	9:05:31 AM
6300	0.048	0.053	0.058	0.08	9/20/2011 9:06	0.087	9:06:31 AM
6360	0.035	0.038	0.041	0.052	9/20/2011 9:07	0.055	9:07:31 AM
6420	0.034	0.037	0.04	0.048	9/20/2011 9:08	0.05	9:08:31 AM
6480	0.041	0.045	0.049	0.06	9/20/2011 9:09	0.063	9:09:31 AM
6540	0.035	0.038	0.04	0.048	9/20/2011 9:10	0.051	9:10:31 AM
6600	0.069	0.074	0.082	0.116	9/20/2011 9:11	0.122	9:11:31 AM
6660	0.048	0.051	0.055	0.07	9/20/2011 9:12	0.075	9:12:31 AM
6720	0.041	0.045	0.047	0.058	9/20/2011 9:13	0.061	9:13:31 AM
6780	0.053	0.058	0.063	0.088	9/20/2011 9:14	0.093	9:14:31 AM
6840	0.046	0.049	0.054	0.069	9/20/2011 9:15	0.073	9:15:31 AM
6900	0.05	0.055	0.058	0.07	9/20/2011 9:16	0.073	9:16:31 AM
6960	0.048	0.051	0.054	0.062	9/20/2011 9:17	0.064	9:17:31 AM
7020	0.044	0.048	0.05	0.056	9/20/2011 9:18	0.057	9:18:31 AM
7080	0.045	0.048	0.052	0.064	9/20/2011 9:19	0.067	9:19:31 AM
7140	0.096	0.104	0.122	0.191	9/20/2011 9:20	0.205	9:20:31 AM
7200	0.069	0.075	0.085	0.115	9/20/2011 9:21	0.122	9:21:31 AM
7260	0.072	0.079	0.088	0.115	9/20/2011 9:22	0.12	9:22:31 AM
7320	0.053	0.058	0.064	0.078	9/20/2011 9:23	0.081	9:23:31 AM
7380	0.055	0.059	0.065	0.076	9/20/2011 9:24	0.079	9:24:31 AM
7440	0.056	0.061	0.067	0.079	9/20/2011 9:25	0.081	9:25:31 AM
7500	0.057	0.062	0.066	0.077	9/20/2011 9:26	0.079	9:26:31 AM
7560	0.065	0.07	0.075	0.084	9/20/2011 9:27	0.086	9:27:31 AM
7620	0.094	0.103	0.114	0.148	9/20/2011 9:28	0.154	9:28:31 AM
7680	0.052	0.056	0.061	0.076	9/20/2011 9:29	0.08	9:29:31 AM
7740	0.052	0.056	0.062	0.079	9/20/2011 9:30	0.083	9:30:31 AM
7800	0.054	0.058	0.063	0.08	9/20/2011 9:31	0.083	9:31:31 AM
7860	0.049	0.052	0.057	0.07	9/20/2011 9:32	0.074	9:32:31 AM
7920	0.058	0.063	0.067	0.077	9/20/2011 9:33	0.081	9:33:31 AM
7980	0.05	0.053	0.057	0.069	9/20/2011 9:34	0.072	9:34:31 AM
8040	0.064	0.068	0.073	0.089	9/20/2011 9:35	0.092	9:35:31 AM
8100	0.044	0.047	0.05	0.06	9/20/2011 9:36	0.063	9:36:31 AM
8160	0.055	0.059	0.063	0.077	9/20/2011 9:37	0.081	9:37:31 AM
8220	0.041	0.044	0.047	0.056	9/20/2011 9:38	0.058	9:38:31 AM

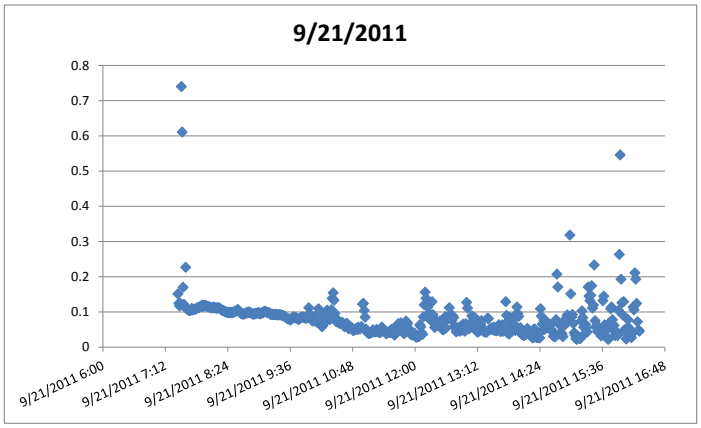
8280	0.054	0.058	0.062	0.072	9/20/2011 9:39	0.075	9:39:31 AM
8340	0.048	0.051	0.055	0.066	9/20/2011 9:40	0.071	9:40:31 AM
8400	0.051	0.055	0.06	0.08	9/20/2011 9:41	0.088	9:41:31 AM
8460	0.057	0.061	0.067	0.098	9/20/2011 9:42	0.11	9:42:31 AM
8520	0.053	0.057	0.062	0.088	9/20/2011 9:43	0.094	9:43:31 AM
8580	0.049	0.053	0.058	0.083	9/20/2011 9:44	0.089	9:44:31 AM
8640	0.053	0.057	0.064	0.089	9/20/2011 9:45	0.095	9:45:31 AM
8700	0.075	0.08	0.091	0.138	9/20/2011 9:46	0.152	9:46:31 AM
8760	0.071	0.076	0.086	0.12	9/20/2011 9:47	0.127	9:47:31 AM
8820	0.065	0.07	0.078	0.104	9/20/2011 9:48	0.11	9:48:31 AM
8880	0.049	0.053	0.058	0.079	9/20/2011 9:49	0.083	9:49:31 AM
8940	0.055	0.059	0.067	0.095	9/20/2011 9:50	0.099	9:50:31 AM
9000	0.065	0.07	0.077	0.103	9/20/2011 9:51	0.109	9:51:31 AM
9060	0.052	0.056	0.061	0.079	9/20/2011 9:52	0.088	9:52:31 AM
9120	0.053	0.056	0.059	0.072	9/20/2011 9:53	0.074	9:53:31 AM
9180	0.056	0.059	0.063	0.074	9/20/2011 9:54	0.076	9:54:31 AM
9240	0.046	0.048	0.051	0.06	9/20/2011 9:55	0.063	9:55:31 AM
9300	0.044	0.047	0.051	0.064	9/20/2011 9:56	0.066	9:56:31 AM
9360	0.056	0.06	0.066	0.083	9/20/2011 9:57	0.089	9:57:31 AM
9420	0.075	0.08	0.087	0.111	9/20/2011 9:58	0.115	9:58:31 AM
9480	0.112	0.121	0.138	0.172	9/20/2011 9:59	0.178	9:59:31 AM
9540	0.076	0.082	0.09	0.113	9/20/2011 10:00	0.119	10:00:31 AM
9600	0.075	0.08	0.088	0.113	9/20/2011 10:01	0.119	10:01:31 AM
9660	0.059	0.063	0.068	0.085	9/20/2011 10:02	0.087	10:02:31 AM
9720	0.041	0.044	0.047	0.055	9/20/2011 10:03	0.056	10:03:31 AM
9780	0.048	0.052	0.057	0.069	9/20/2011 10:04	0.072	10:04:31 AM
9840	0.035	0.037	0.04	0.047	9/20/2011 10:05	0.049	10:05:31 AM
9900	0.037	0.04	0.043	0.053	9/20/2011 10:06	0.055	10:06:31 AM
9960	0.043	0.046	0.049	0.06	9/20/2011 10:07	0.063	10:07:31 AM
10020	0.06	0.064	0.069	0.083	9/20/2011 10:08	0.086	10:08:31 AM
10080	0.039	0.042	0.045	0.053	9/20/2011 10:09	0.054	10:09:31 AM
10140	0.059	0.063	0.067	0.077	9/20/2011 10:10	0.079	10:10:31 AM
10200	0.044	0.047	0.05	0.058	9/20/2011 10:11	0.059	10:11:31 AM
10260	0.026	0.028	0.03	0.035	9/20/2011 10:12	0.036	10:12:31 AM
10320	0.04	0.043	0.045	0.051	9/20/2011 10:13	0.052	10:13:31 AM
10380	0.068	0.072	0.076	0.087	9/20/2011 10:14	0.09	10:14:31 AM
10440	0.054	0.058	0.062	0.072	9/20/2011 10:15	0.072	10:15:31 AM
10500	0.056	0.06	0.064	0.078	9/20/2011 10:16	0.08	10:16:31 AM
10560	0.049	0.053	0.056	0.063	9/20/2011 10:17	0.065	10:17:31 AM
10620	0.038	0.041	0.043	0.048	9/20/2011 10:18	0.048	10:18:31 AM
10680	0.049	0.052	0.055	0.06	9/20/2011 10:19	0.061	10:19:31 AM
10740	0.053	0.056	0.058	0.064	9/20/2011 10:20	0.067	10:20:31 AM
10800	0.067	0.071	0.076	0.087	9/20/2011 10:21	0.09	10:21:31 AM
10860	0.043	0.046	0.049	0.055	9/20/2011 10:22	0.057	10:22:31 AM
10920	0.05	0.053	0.056	0.064	9/20/2011 10:23	0.065	10:23:31 AM
10980	0.052	0.055	0.058	0.065	9/20/2011 10:24	0.066	10:24:31 AM
11040	0.06	0.063	0.066	0.071	9/20/2011 10:25	0.072	10:25:31 AM
11100	0.05	0.053	0.055	0.061	9/20/2011 10:26	0.062	10:26:31 AM
11160	0.054	0.058	0.06	0.065	9/20/2011 10:27	0.068	10:27:31 AM
11220	0.049	0.052	0.054	0.057	9/20/2011 10:28	0.057	10:28:31 AM
11280	0.043	0.046	0.047	0.05	9/20/2011 10:29	0.05	10:29:31 AM
11340	0.041	0.043	0.045	0.047	9/20/2011 10:30	0.047	10:30:31 AM
11400	0.036	0.038	0.039	0.041	9/20/2011 10:31	0.041	10:31:31 AM
11460	0.05	0.053	0.055	0.062	9/20/2011 10:32	0.063	10:32:31 AM
11520	0.052	0.055	0.058	0.067	9/20/2011 10:33	0.068	10:33:31 AM
11580	0.096	0.101	0.109	0.136	9/20/2011 10:34	0.141	10:34:31 AM
11640	0.088	0.093	0.102	0.13	9/20/2011 10:35	0.134	10:35:31 AM
11700	0.067	0.071	0.076	0.092	9/20/2011 10:36	0.095	10:36:31 AM
11760	0.057	0.061	0.064	0.073	9/20/2011 10:37	0.075	10:37:31 AM
11820	0.043	0.046	0.048	0.054	9/20/2011 10:38	0.055	10:38:31 AM
11880	0.046	0.049	0.05	0.055	9/20/2011 10:39	0.056	10:39:31 AM
11940	0.044	0.046	0.048	0.052	9/20/2011 10:40	0.053	10:40:31 AM
12000	0.052	0.055	0.058	0.066	9/20/2011 10:41	0.068	10:41:31 AM
12060	0.044	0.046	0.048	0.052	9/20/2011 10:42	0.052	10:42:31 AM
12120	0.052	0.055	0.057	0.063	9/20/2011 10:43	0.064	10:43:31 AM
12180	0.042	0.045	0.046	0.049	9/20/2011 10:44	0.05	10:44:31 AM
12240	0.065	0.069	0.072	0.077	9/20/2011 10:45	0.077	10:45:31 AM
12300	0.067	0.072	0.075	0.083	9/20/2011 10:46	0.085	10:46:31 AM
12360	0.052	0.056	0.06	0.071	9/20/2011 10:47	0.074	10:47:31 AM
12420	0.051	0.054	0.057	0.065	9/20/2011 10:48	0.066	10:48:31 AM
12480	0.054	0.057	0.059	0.065	9/20/2011 10:49	0.066	10:49:31 AM
12540	0.045	0.048	0.05	0.055	9/20/2011 10:50	0.056	10:50:31 AM
12600	0.05	0.053	0.056	0.063	9/20/2011 10:51	0.065	10:51:31 AM
12660	0.036	0.038	0.04	0.042	9/20/2011 10:52	0.043	10:52:31 AM
12720	0.037	0.039	0.04	0.042	9/20/2011 10:53	0.043	10:53:31 AM
12780	0.058	0.061	0.064	0.07	9/20/2011 10:54	0.071	10:54:31 AM
12840	0.043	0.045	0.047	0.051	9/20/2011 10:55	0.051	10:55:31 AM
12900	0.053	0.056	0.058	0.063	9/20/2011 10:56	0.064	10:56:31 AM
12960	0.056	0.059	0.061	0.067	9/20/2011 10:57	0.068	10:57:31 AM
13020	0.056	0.059	0.061	0.067	9/20/2011 10:58	0.068	10:58:31 AM
13080	0.051	0.054	0.056	0.061	9/20/2011 10:59	0.061	10:59:31 AM
13140	0.046	0.049	0.052	0.058	9/20/2011 11:00	0.06	11:00:31 AM
13200	0.044	0.047	0.049	0.053	9/20/2011 11:01	0.055	11:01:31 AM
13260	0.053	0.056	0.058	0.061	9/20/2011 11:02	0.061	11:02:31 AM
13320	0.045	0.047	0.048	0.05	9/20/2011 11:03	0.051	11:03:31 AM
13380	0.052	0.055	0.057	0.06	9/20/2011 11:04	0.061	11:04:31 AM
13440	0.032	0.034	0.035	0.037	9/20/2011 11:05	0.037	11:05:31 AM

13500	0.039	0.041	0.042	0.044	9/20/2011 11:06	0.045	11:06:31 AM
13560	0.039	0.041	0.042	0.045	9/20/2011 11:07	0.045	11:07:31 AM
13620	0.049	0.052	0.055	0.067	9/20/2011 11:08	0.069	11:08:31 AM
13680	0.066	0.07	0.079	0.113	9/20/2011 11:09	0.121	11:09:31 AM
13740	0.045	0.048	0.051	0.061	9/20/2011 11:10	0.062	11:10:31 AM
13800	0.049	0.052	0.054	0.059	9/20/2011 11:11	0.06	11:11:31 AM
13860	0.081	0.084	0.087	0.092	9/20/2011 11:12	0.093	11:12:31 AM
13920	0.064	0.066	0.068	0.071	9/20/2011 11:13	0.071	11:13:31 AM
13980	0.086	0.089	0.09	0.092	9/20/2011 11:14	0.092	11:14:31 AM
14040	0.092	0.095	0.097	0.105	9/20/2011 11:15	0.106	11:15:31 AM
14100	0.112	0.115	0.117	0.124	9/20/2011 11:16	0.125	11:16:31 AM
14160	0.075	0.078	0.08	0.085	9/20/2011 11:17	0.086	11:17:31 AM
14220	0.058	0.061	0.063	0.067	9/20/2011 11:18	0.067	11:18:31 AM
14280	0.049	0.051	0.053	0.057	9/20/2011 11:19	0.058	11:19:31 AM
14340	0.052	0.055	0.057	0.062	9/20/2011 11:20	0.064	11:20:31 AM
14400	0.046	0.049	0.051	0.056	9/20/2011 11:21	0.057	11:21:31 AM
14460	0.044	0.046	0.049	0.055	9/20/2011 11:22	0.056	11:22:31 AM
14520	0.039	0.041	0.043	0.048	9/20/2011 11:23	0.049	11:23:31 AM
14580	0.041	0.043	0.045	0.048	9/20/2011 11:24	0.049	11:24:31 AM
14640	0.025	0.027	0.028	0.032	9/20/2011 11:25	0.032	11:25:31 AM
14700	0.061	0.065	0.072	0.094	9/20/2011 11:26	0.097	11:26:31 AM
14760	0.064	0.069	0.077	0.101	9/20/2011 11:27	0.104	11:27:31 AM
14820	0.067	0.072	0.083	0.119	9/20/2011 11:28	0.126	11:28:31 AM
14880	0.06	0.064	0.073	0.097	9/20/2011 11:29	0.1	11:29:31 AM
14940	0.089	0.096	0.108	0.142	9/20/2011 11:30	0.149	11:30:31 AM
15000	0.062	0.067	0.073	0.093	9/20/2011 11:31	0.098	11:31:31 AM
15060	0.03	0.032	0.034	0.039	9/20/2011 11:32	0.039	11:32:31 AM
15120	0.025	0.026	0.027	0.03	9/20/2011 11:33	0.03	11:33:31 AM
15180	0.034	0.036	0.038	0.042	9/20/2011 11:34	0.042	11:34:31 AM
15240	0.035	0.038	0.039	0.043	9/20/2011 11:35	0.044	11:35:31 AM
15300	0.049	0.052	0.054	0.06	9/20/2011 11:36	0.061	11:36:31 AM
15360	0.045	0.048	0.05	0.054	9/20/2011 11:37	0.055	11:37:31 AM
15420	0.052	0.055	0.058	0.063	9/20/2011 11:38	0.063	11:38:31 AM
15480	0.058	0.061	0.064	0.071	9/20/2011 11:39	0.072	11:39:31 AM
15540	0.065	0.069	0.072	0.08	9/20/2011 11:40	0.081	11:40:31 AM
15600	0.048	0.051	0.053	0.059	9/20/2011 11:41	0.06	11:41:31 AM
15660	0.071	0.074	0.076	0.081	9/20/2011 11:42	0.082	11:42:31 AM
15720	0.06	0.063	0.066	0.071	9/20/2011 11:43	0.072	11:43:31 AM
15780	0.047	0.049	0.05	0.053	9/20/2011 11:44	0.053	11:44:31 AM
15840	0.059	0.062	0.066	0.074	9/20/2011 11:45	0.074	11:45:31 AM
15900	0.067	0.069	0.072	0.077	9/20/2011 11:46	0.077	11:46:31 AM
15960	0.067	0.07	0.073	0.082	9/20/2011 11:47	0.083	11:47:31 AM
16020	0.065	0.068	0.071	0.083	9/20/2011 11:48	0.088	11:48:31 AM
16080	0.089	0.094	0.101	0.124	9/20/2011 11:49	0.13	11:49:31 AM
16140	0.072	0.076	0.081	0.098	9/20/2011 11:50	0.103	11:50:31 AM
16200	0.067	0.07	0.074	0.085	9/20/2011 11:51	0.089	11:51:31 AM
16260	0.067	0.071	0.075	0.088	9/20/2011 11:52	0.091	11:52:31 AM
16320	0.053	0.056	0.06	0.07	9/20/2011 11:53	0.072	11:53:31 AM
16380	0.067	0.071	0.075	0.086	9/20/2011 11:54	0.089	11:54:31 AM
16440	0.058	0.061	0.066	0.077	9/20/2011 11:55	0.08	11:55:31 AM
16500	0.058	0.061	0.065	0.075	9/20/2011 11:56	0.079	11:56:31 AM
16560	0.052	0.055	0.058	0.068	9/20/2011 11:57	0.069	11:57:31 AM
16620	0.05	0.053	0.056	0.066	9/20/2011 11:58	0.067	11:58:31 AM
16680	0.082	0.087	0.097	0.132	9/20/2011 11:59	0.14	11:59:31 AM
16740	0.081	0.086	0.095	0.126	9/20/2011 12:00	0.132	12:00:31 PM
16800	0.061	0.065	0.07	0.089	9/20/2011 12:01	0.097	12:01:31 PM
16860	0.055	0.058	0.062	0.076	9/20/2011 12:02	0.077	12:02:31 PM
16920	0.045	0.047	0.05	0.056	9/20/2011 12:03	0.058	12:03:31 PM
16980	0.051	0.053	0.056	0.066	9/20/2011 12:04	0.069	12:04:31 PM
17040	0.057	0.06	0.064	0.073	9/20/2011 12:05	0.076	12:05:31 PM
17100	0.07	0.073	0.078	0.095	9/20/2011 12:06	0.099	12:06:31 PM
17160	0.058	0.062	0.064	0.074	9/20/2011 12:07	0.075	12:07:31 PM
17220	0.104	0.11	0.123	0.175	9/20/2011 12:08	0.187	12:08:31 PM
17280	0.095	0.101	0.115	0.165	9/20/2011 12:09	0.174	12:09:31 PM
17340	0.073	0.077	0.085	0.113	9/20/2011 12:10	0.117	12:10:31 PM
17400	0.085	0.09	0.104	0.153	9/20/2011 12:11	0.164	12:11:31 PM
17460	0.094	0.1	0.116	0.184	9/20/2011 12:12	0.198	12:12:31 PM
17520	0.056	0.059	0.066	0.095	9/20/2011 12:13	0.102	12:13:31 PM
17580	0.065	0.068	0.076	0.108	9/20/2011 12:14	0.118	12:14:31 PM
17640	0.115	0.123	0.145	0.232	9/20/2011 12:15	0.252	12:15:31 PM
17700	0.051	0.054	0.061	0.083	9/20/2011 12:16	0.088	12:16:31 PM
17760	0.069	0.073	0.083	0.115	9/20/2011 12:17	0.122	12:17:31 PM
17820	0.057	0.061	0.068	0.089	9/20/2011 12:18	0.094	12:18:31 PM
17880	0.05	0.054	0.059	0.078	9/20/2011 12:19	0.082	12:19:31 PM
17940	0.05	0.053	0.057	0.071	9/20/2011 12:20	0.076	12:20:31 PM
18000	0.061	0.065	0.071	0.098	9/20/2011 12:21	0.106	12:21:31 PM
18060	0.055	0.059	0.064	0.083	9/20/2011 12:22	0.089	12:22:31 PM
18120	0.045	0.048	0.051	0.059	9/20/2011 12:23	0.06	12:23:31 PM
18180	0.031	0.033	0.034	0.036	9/20/2011 12:24	0.036	12:24:31 PM
18240	0.026	0.028	0.028	0.029	9/20/2011 12:25	0.03	12:25:31 PM
18300	0.033	0.035	0.036	0.04	9/20/2011 12:26	0.041	12:26:31 PM
18360	0.042	0.045	0.047	0.054	9/20/2011 12:27	0.055	12:27:31 PM
18420	0.048	0.051	0.056	0.072	9/20/2011 12:28	0.075	12:28:31 PM
18480	0.062	0.067	0.076	0.105	9/20/2011 12:29	0.114	12:29:31 PM
18540	0.043	0.046	0.05	0.061	9/20/2011 12:30	0.062	12:30:31 PM
18600	0.032	0.034	0.036	0.04	9/20/2011 12:31	0.041	12:31:31 PM
18660	0.034	0.036	0.038	0.042	9/20/2011 12:32	0.043	12:32:31 PM

18720	0.037	0.039	0.04	0.042	9/20/2011 12:33	0.043	12:33:31 PM
18780	0.034	0.036	0.037	0.039	9/20/2011 12:34	0.039	12:34:31 PM
18840	0.042	0.045	0.047	0.056	9/20/2011 12:35	0.058	12:35:31 PM
18900	0.042	0.044	0.047	0.057	9/20/2011 12:36	0.059	12:36:31 PM
18960	0.034	0.036	0.038	0.043	9/20/2011 12:37	0.044	12:37:31 PM
19020	0.042	0.045	0.047	0.053	9/20/2011 12:38	0.054	12:38:31 PM
19080	0.036	0.039	0.041	0.048	9/20/2011 12:39	0.05	12:39:31 PM
19140	0.034	0.035	0.037	0.04	9/20/2011 12:40	0.041	12:40:31 PM
19200	0.027	0.029	0.03	0.031	9/20/2011 12:41	0.032	12:41:31 PM
19260	0.03	0.031	0.033	0.035	9/20/2011 12:42	0.035	12:42:31 PM
19320	0.039	0.042	0.044	0.047	9/20/2011 12:43	0.049	12:43:31 PM
19380	0.042	0.045	0.049	0.061	9/20/2011 12:44	0.063	12:44:31 PM
19440	0.04	0.042	0.045	0.052	9/20/2011 12:45	0.054	12:45:31 PM
19500	0.047	0.05	0.053	0.059	9/20/2011 12:46	0.059	12:46:31 PM
19560	0.036	0.038	0.04	0.042	9/20/2011 12:47	0.042	12:47:31 PM
19620	0.032	0.034	0.034	0.035	9/20/2011 12:48	0.035	12:48:31 PM
19680	0.034	0.036	0.036	0.037	9/20/2011 12:49	0.037	12:49:31 PM
19740	0.032	0.034	0.035	0.036	9/20/2011 12:50	0.036	12:50:31 PM
19800	0.039	0.041	0.042	0.044	9/20/2011 12:51	0.044	12:51:31 PM
19860	0.045	0.048	0.049	0.051	9/20/2011 12:52	0.051	12:52:31 PM
19920	0.039	0.041	0.042	0.044	9/20/2011 12:53	0.044	12:53:31 PM
19980	0.052	0.055	0.056	0.058	9/20/2011 12:54	0.058	12:54:31 PM
20040	0.041	0.043	0.044	0.044	9/20/2011 12:55	0.044	12:55:31 PM
20100	0.042	0.044	0.045	0.049	9/20/2011 12:56	0.05	12:56:31 PM
20160	0.04	0.042	0.043	0.047	9/20/2011 12:57	0.048	12:57:31 PM
20220	0.043	0.045	0.046	0.049	9/20/2011 12:58	0.05	12:58:31 PM
20280	0.051	0.053	0.054	0.057	9/20/2011 12:59	0.057	12:59:31 PM
20340	0.063	0.067	0.072	0.087	9/20/2011 13:00	0.088	1:00:31 PM
20400	0.053	0.056	0.058	0.064	9/20/2011 13:01	0.064	1:01:31 PM
20460	0.053	0.056	0.058	0.062	9/20/2011 13:02	0.063	1:02:31 PM
20520	0.048	0.05	0.052	0.057	9/20/2011 13:03	0.058	1:03:31 PM
20580	0.044	0.046	0.048	0.051	9/20/2011 13:04	0.051	1:04:31 PM
20640	0.046	0.049	0.051	0.056	9/20/2011 13:05	0.057	1:05:31 PM
20700	0.049	0.052	0.053	0.056	9/20/2011 13:06	0.057	1:06:31 PM
20760	0.043	0.045	0.046	0.049	9/20/2011 13:07	0.05	1:07:31 PM
20820	0.04	0.042	0.044	0.048	9/20/2011 13:08	0.049	1:08:31 PM
20880	0.041	0.044	0.045	0.049	9/20/2011 13:09	0.049	1:09:31 PM
20940	0.041	0.043	0.045	0.049	9/20/2011 13:10	0.049	1:10:31 PM
21000	0.059	0.062	0.068	0.087	9/20/2011 13:11	0.091	1:11:31 PM
21060	0.073	0.077	0.087	0.122	9/20/2011 13:12	0.13	1:12:31 PM
21120	0.059	0.063	0.069	0.089	9/20/2011 13:13	0.095	1:13:31 PM
21180	0.046	0.049	0.052	0.061	9/20/2011 13:14	0.062	1:14:31 PM
21240	0.055	0.058	0.062	0.071	9/20/2011 13:15	0.074	1:15:31 PM
21300	0.046	0.049	0.051	0.058	9/20/2011 13:16	0.059	1:16:31 PM
21360	0.046	0.049	0.051	0.054	9/20/2011 13:17	0.055	1:17:31 PM
21420	0.04	0.043	0.044	0.048	9/20/2011 13:18	0.049	1:18:31 PM
21480	0.04	0.042	0.043	0.048	9/20/2011 13:19	0.049	1:19:31 PM
21540	0.051	0.054	0.056	0.064	9/20/2011 13:20	0.066	1:20:31 PM
21600	0.051	0.054	0.057	0.066	9/20/2011 13:21	0.069	1:21:31 PM
21660	0.051	0.054	0.057	0.067	9/20/2011 13:22	0.07	1:22:31 PM
21720	0.062	0.066	0.069	0.076	9/20/2011 13:23	0.078	1:23:31 PM
21780	0.072	0.075	0.08	0.092	9/20/2011 13:24	0.095	1:24:31 PM
21840	0.054	0.057	0.059	0.067	9/20/2011 13:25	0.069	1:25:31 PM
21900	0.055	0.059	0.061	0.068	9/20/2011 13:26	0.069	1:26:31 PM
21960	0.064	0.068	0.075	0.094	9/20/2011 13:27	0.101	1:27:31 PM
22020	0.077	0.082	0.093	0.127	9/20/2011 13:28	0.136	1:28:31 PM
22080	0.06	0.063	0.069	0.085	9/20/2011 13:29	0.09	1:29:31 PM
22140	0.046	0.049	0.052	0.061	9/20/2011 13:30	0.062	1:30:31 PM
22200	0.051	0.054	0.057	0.065	9/20/2011 13:31	0.069	1:31:31 PM
22260	0.047	0.05	0.052	0.057	9/20/2011 13:32	0.058	1:32:31 PM
22320	0.044	0.046	0.048	0.054	9/20/2011 13:33	0.056	1:33:31 PM
22380	0.051	0.054	0.055	0.06	9/20/2011 13:34	0.061	1:34:31 PM
22440	0.048	0.05	0.052	0.059	9/20/2011 13:35	0.062	1:35:31 PM
22500	0.047	0.049	0.051	0.058	9/20/2011 13:36	0.059	1:36:31 PM
22560	0.047	0.05	0.052	0.058	9/20/2011 13:37	0.059	1:37:31 PM
22620	0.053	0.057	0.061	0.071	9/20/2011 13:38	0.075	1:38:31 PM
22680	0.051	0.054	0.058	0.065	9/20/2011 13:39	0.069	1:39:31 PM
22740	0.066	0.07	0.074	0.086	9/20/2011 13:40	0.089	1:40:31 PM
22800	0.048	0.051	0.053	0.059	9/20/2011 13:41	0.06	1:41:31 PM
22860	0.043	0.045	0.048	0.053	9/20/2011 13:42	0.055	1:42:31 PM
22920	0.067	0.071	0.076	0.089	9/20/2011 13:43	0.093	1:43:31 PM
22980	0.061	0.065	0.07	0.084	9/20/2011 13:44	0.088	1:44:31 PM
23040	0.055	0.058	0.06	0.067	9/20/2011 13:45	0.069	1:45:31 PM
23100	0.05	0.053	0.055	0.06	9/20/2011 13:46	0.062	1:46:31 PM
23160	0.064	0.068	0.073	0.085	9/20/2011 13:47	0.087	1:47:31 PM
23220	0.07	0.074	0.083	0.107	9/20/2011 13:48	0.111	1:48:31 PM
23280	0.053	0.056	0.06	0.071	9/20/2011 13:49	0.071	1:49:31 PM
23340	0.046	0.049	0.051	0.058	9/20/2011 13:50	0.059	1:50:31 PM
23400	0.061	0.064	0.069	0.086	9/20/2011 13:51	0.091	1:51:31 PM
23460	0.063	0.067	0.071	0.084	9/20/2011 13:52	0.087	1:52:31 PM
23520	0.06	0.063	0.067	0.078	9/20/2011 13:53	0.082	1:53:31 PM
23580	0.056	0.06	0.063	0.072	9/20/2011 13:54	0.073	1:54:31 PM
23640	0.06	0.063	0.066	0.076	9/20/2011 13:55	0.078	1:55:31 PM
23700	0.054	0.057	0.061	0.071	9/20/2011 13:56	0.073	1:56:31 PM
23760	0.057	0.061	0.065	0.079	9/20/2011 13:57	0.083	1:57:31 PM
23820	0.044	0.046	0.05	0.06	9/20/2011 13:58	0.064	1:58:31 PM
23880	0.046	0.048	0.053	0.066	9/20/2011 13:59	0.068	1:59:31 PM

23940	0.041	0.043	0.046	0.055	9/20/2011 14:00	0.057	2:00:31 PM
24000	0.041	0.042	0.046	0.056	9/20/2011 14:01	0.058	2:01:31 PM
24060	0.037	0.039	0.041	0.049	9/20/2011 14:02	0.05	2:02:31 PM
24120	0.051	0.053	0.058	0.072	9/20/2011 14:03	0.074	2:03:31 PM
24180	0.055	0.058	0.064	0.082	9/20/2011 14:04	0.086	2:04:31 PM
24240	0.049	0.051	0.056	0.072	9/20/2011 14:05	0.075	2:05:31 PM
24300	0.046	0.048	0.052	0.063	9/20/2011 14:06	0.067	2:06:31 PM
24360	0.056	0.059	0.064	0.079	9/20/2011 14:07	0.083	2:07:31 PM
24420	0.06	0.063	0.07	0.093	9/20/2011 14:08	0.1	2:08:31 PM
24480	0.063	0.066	0.074	0.097	9/20/2011 14:09	0.098	2:09:31 PM
24540	0.064	0.067	0.073	0.095	9/20/2011 14:10	0.099	2:10:31 PM
24600	0.058	0.06	0.065	0.079	9/20/2011 14:11	0.084	2:11:31 PM
24660	0.061	0.064	0.07	0.088	9/20/2011 14:12	0.091	2:12:31 PM
24720	0.055	0.057	0.062	0.075	9/20/2011 14:13	0.077	2:13:31 PM
24780	0.058	0.061	0.066	0.084	9/20/2011 14:14	0.086	2:14:31 PM
24840	0.053	0.055	0.06	0.076	9/20/2011 14:15	0.078	2:15:31 PM
24900	0.078	0.081	0.089	0.119	9/20/2011 14:16	0.126	2:16:31 PM
24960	0.057	0.059	0.065	0.086	9/20/2011 14:17	0.093	2:17:31 PM
25020	0.043	0.045	0.048	0.058	9/20/2011 14:18	0.062	2:18:31 PM
25080	0.045	0.046	0.05	0.063	9/20/2011 14:19	0.067	2:19:31 PM
25140	0.06	0.063	0.07	0.093	9/20/2011 14:20	0.098	2:20:31 PM
25200	0.057	0.06	0.067	0.099	9/20/2011 14:21	0.105	2:21:31 PM
25260	0.072	0.075	0.085	0.131	9/20/2011 14:22	0.14	2:22:31 PM
25320	0.078	0.082	0.094	0.139	9/20/2011 14:23	0.155	2:23:31 PM
25380	0.097	0.103	0.116	0.163	9/20/2011 14:24	0.176	2:24:31 PM
25440	0.087	0.093	0.103	0.131	9/20/2011 14:25	0.14	2:25:31 PM
25500	0.08	0.085	0.093	0.118	9/20/2011 14:26	0.121	2:26:31 PM
25560	0.089	0.095	0.105	0.135	9/20/2011 14:27	0.143	2:27:31 PM
25620	0.155	0.16	0.167	0.187	9/20/2011 14:28	0.191	2:28:31 PM
25680	0.108	0.114	0.123	0.155	9/20/2011 14:29	0.161	2:29:31 PM
25740	0.136	0.142	0.15	0.176	9/20/2011 14:30	0.181	2:30:31 PM
25800	0.103	0.108	0.114	0.133	9/20/2011 14:31	0.138	2:31:31 PM
25860	0.106	0.113	0.122	0.151	9/20/2011 14:32	0.157	2:32:31 PM
25920	0.082	0.087	0.094	0.117	9/20/2011 14:33	0.123	2:33:31 PM
25980	0.091	0.097	0.108	0.137	9/20/2011 14:34	0.142	2:34:31 PM
26040	0.159	0.172	0.205	0.314	9/20/2011 14:35	0.33	2:35:31 PM
26100	0.111	0.119	0.135	0.184	9/20/2011 14:36	0.192	2:36:31 PM
26160	0.073	0.077	0.083	0.099	9/20/2011 14:37	0.101	2:37:31 PM
26220	0.061	0.064	0.067	0.073	9/20/2011 14:38	0.074	2:38:31 PM
26280	0.091	0.096	0.105	0.131	9/20/2011 14:39	0.136	2:39:31 PM
26340	0.1	0.106	0.117	0.155	9/20/2011 14:40	0.162	2:40:31 PM
26400	0.124	0.132	0.149	0.206	9/20/2011 14:41	0.221	2:41:31 PM
26460	0.152	0.162	0.186	0.269	9/20/2011 14:42	0.286	2:42:31 PM
26520	0.138	0.147	0.168	0.243	9/20/2011 14:43	0.262	2:43:31 PM
26580	0.109	0.116	0.13	0.178	9/20/2011 14:44	0.188	2:44:31 PM
26640	0.113	0.12	0.134	0.183	9/20/2011 14:45	0.198	2:45:31 PM

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_003
Test Start Time	7:25:36 AM
Test Start Date	9/21/2011
Test Length [D:H:M]	0:08:53
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.064
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.737
PM1 TWA [mg/m3]	0.066
PM2.5 Average [mg/m3]	0.066
PM2.5 Minimum [mg/m3]	0.019
PM2.5 Maximum [mg/m3]	0.738
PM2.5 TWA [mg/m3]	0.067
PM4 Average [mg/m3]	0.068
PM4 Minimum [mg/m3]	0.02
PM4 Maximum [mg/m3]	0.738
PM4 TWA [mg/m3]	0.07
PM10 Average [mg/m3]	0.077
PM10 Minimum [mg/m3]	0.021
PM10 Maximum [mg/m3]	0.739
PM10 TWA [mg/m3]	0.076
TOTAL Average [mg/m3]	0.079
TOTAL Minimum [mg/m3]	0.022
TOTAL Maximum [mg/m3]	0.74
TOTAL TWA [mg/m3]	0.078
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	533



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:25:36 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.128	0.13	0.132	0.144	7:26:36 AM	9/21/2011 7:26	0.151		
120	0.121	0.122	0.122	0.124	7:27:36 AM	9/21/2011 7:27	0.124		
180	0.116	0.117	0.117	0.117	7:28:36 AM	9/21/2011 7:28	0.117		
240	0.118	0.12	0.121	0.123	7:29:36 AM	9/21/2011 7:29	0.124		
300	0.737	0.738	0.738	0.739	7:30:36 AM	9/21/2011 7:30	0.74		
360	0.609	0.61	0.61	0.611	7:31:36 AM	9/21/2011 7:31	0.611		
420	0.167	0.167	0.168	0.169	7:32:36 AM	9/21/2011 7:32	0.17		
480	0.119	0.119	0.119	0.12	7:33:36 AM	9/21/2011 7:33	0.121		
540	0.114	0.114	0.115	0.115	7:34:36 AM	9/21/2011 7:34	0.115		
600	0.167	0.172	0.182	0.204	7:35:36 AM	9/21/2011 7:35	0.227		
660	0.105	0.106	0.107	0.108	7:36:36 AM	9/21/2011 7:36	0.109		
720	0.107	0.107	0.108	0.108	7:37:36 AM	9/21/2011 7:37	0.108		
780	0.104	0.104	0.105	0.105	7:38:36 AM	9/21/2011 7:38	0.105		
840	0.103	0.103	0.104	0.104	7:39:36 AM	9/21/2011 7:39	0.104		
900	0.103	0.104	0.104	0.104	7:40:36 AM	9/21/2011 7:40	0.104		
960	0.102	0.103	0.103	0.104	7:41:36 AM	9/21/2011 7:41	0.105		
1020	0.104	0.105	0.106	0.108	7:42:36 AM	9/21/2011 7:42	0.11		
1080	0.102	0.103	0.104	0.105	7:43:36 AM	9/21/2011 7:43	0.106		
1140	0.103	0.104	0.105	0.107	7:44:36 AM	9/21/2011 7:44	0.107		
1200	0.105	0.106	0.107	0.108	7:45:36 AM	9/21/2011 7:45	0.108		
1260	0.104	0.105	0.106	0.108	7:46:36 AM	9/21/2011 7:46	0.108		
1320	0.104	0.104	0.105	0.107	7:47:36 AM	9/21/2011 7:47	0.108		
1380	0.105	0.106	0.108	0.11	7:48:36 AM	9/21/2011 7:48	0.111		
1440	0.107	0.108	0.109	0.112	7:49:36 AM	9/21/2011 7:49	0.112		
1500	0.108	0.109	0.11	0.113	7:50:36 AM	9/21/2011 7:50	0.113		
1560	0.108	0.109	0.11	0.113	7:51:36 AM	9/21/2011 7:51	0.113		
1620	0.11	0.111	0.113	0.115	7:52:36 AM	9/21/2011 7:52	0.116		
1680	0.11	0.111	0.113	0.116	7:53:36 AM	9/21/2011 7:53	0.116		
1740	0.11	0.111	0.113	0.117	7:54:36 AM	9/21/2011 7:54	0.119		
1800	0.109	0.11	0.112	0.115	7:55:36 AM	9/21/2011 7:55	0.115		
1860	0.111	0.112	0.114	0.116	7:56:36 AM	9/21/2011 7:56	0.118		
1920	0.11	0.111	0.113	0.116	7:57:36 AM	9/21/2011 7:57	0.117		
1980	0.11	0.112	0.113	0.118	7:58:36 AM	9/21/2011 7:58	0.118		
2040	0.11	0.111	0.112	0.116	7:59:36 AM	9/21/2011 7:59	0.116		
2100	0.11	0.111	0.113	0.116	8:00:36 AM	9/21/2011 8:00	0.116		
2160	0.108	0.109	0.111	0.114	8:01:36 AM	9/21/2011 8:01	0.114		
2220	0.109	0.11	0.112	0.114	8:02:36 AM	9/21/2011 8:02	0.115		
2280	0.107	0.108	0.11	0.113	8:03:36 AM	9/21/2011 8:03	0.113		
2340	0.106	0.107	0.109	0.111	8:04:36 AM	9/21/2011 8:04	0.112		
2400	0.106	0.107	0.108	0.112	8:05:36 AM	9/21/2011 8:05	0.112		
2460	0.106	0.107	0.108	0.111	8:06:36 AM	9/21/2011 8:06	0.111		
2520	0.106	0.107	0.109	0.113	8:07:36 AM	9/21/2011 8:07	0.114		
2580	0.106	0.107	0.108	0.111	8:08:36 AM	9/21/2011 8:08	0.112		
2640	0.106	0.107	0.108	0.11	8:09:36 AM	9/21/2011 8:09	0.111		
2700	0.106	0.107	0.108	0.111	8:10:36 AM	9/21/2011 8:10	0.112		
2760	0.106	0.107	0.108	0.11	8:11:36 AM	9/21/2011 8:11	0.11		
2820	0.106	0.107	0.109	0.111	8:12:36 AM	9/21/2011 8:12	0.112		
2880	0.106	0.107	0.109	0.111	8:13:36 AM	9/21/2011 8:13	0.112		
2940	0.106	0.107	0.108	0.11	8:14:36 AM	9/21/2011 8:14	0.11		
3000	0.104	0.105	0.106	0.109	8:15:36 AM	9/21/2011 8:15	0.109		

3060	0.102	0.103	0.104	0.106	8:16:36 AM	9/21/2011 8:16	0.106
3120	0.101	0.102	0.103	0.104	8:17:36 AM	9/21/2011 8:17	0.104
3180	0.101	0.101	0.102	0.104	8:18:36 AM	9/21/2011 8:18	0.104
3240	0.1	0.101	0.101	0.103	8:19:36 AM	9/21/2011 8:19	0.103
3300	0.099	0.099	0.1	0.101	8:20:36 AM	9/21/2011 8:20	0.101
3360	0.098	0.099	0.099	0.1	8:21:36 AM	9/21/2011 8:21	0.1
3420	0.096	0.097	0.098	0.099	8:22:36 AM	9/21/2011 8:22	0.099
3480	0.097	0.097	0.098	0.099	8:23:36 AM	9/21/2011 8:23	0.099
3540	0.096	0.096	0.097	0.098	8:24:36 AM	9/21/2011 8:24	0.098
3600	0.095	0.096	0.096	0.097	8:25:36 AM	9/21/2011 8:25	0.097
3660	0.097	0.097	0.098	0.099	8:26:36 AM	9/21/2011 8:26	0.099
3720	0.097	0.097	0.098	0.099	8:27:36 AM	9/21/2011 8:27	0.099
3780	0.095	0.095	0.096	0.097	8:28:36 AM	9/21/2011 8:28	0.097
3840	0.095	0.096	0.096	0.097	8:29:36 AM	9/21/2011 8:29	0.098
3900	0.096	0.097	0.098	0.098	8:30:36 AM	9/21/2011 8:30	0.098
3960	0.098	0.099	0.099	0.101	8:31:36 AM	9/21/2011 8:31	0.101
4020	0.099	0.099	0.1	0.102	8:32:36 AM	9/21/2011 8:32	0.102
4080	0.099	0.1	0.101	0.102	8:33:36 AM	9/21/2011 8:33	0.102
4140	0.101	0.101	0.103	0.104	8:34:36 AM	9/21/2011 8:34	0.104
4200	0.102	0.103	0.104	0.107	8:35:36 AM	9/21/2011 8:35	0.107
4260	0.099	0.1	0.101	0.103	8:36:36 AM	9/21/2011 8:36	0.103
4320	0.097	0.098	0.099	0.1	8:37:36 AM	9/21/2011 8:37	0.101
4380	0.094	0.095	0.095	0.097	8:38:36 AM	9/21/2011 8:38	0.097
4440	0.093	0.094	0.094	0.095	8:39:36 AM	9/21/2011 8:39	0.095
4500	0.093	0.094	0.094	0.095	8:40:36 AM	9/21/2011 8:40	0.096
4560	0.091	0.092	0.092	0.093	8:41:36 AM	9/21/2011 8:41	0.093
4620	0.092	0.092	0.093	0.094	8:42:36 AM	9/21/2011 8:42	0.094
4680	0.093	0.093	0.094	0.094	8:43:36 AM	9/21/2011 8:43	0.094
4740	0.093	0.094	0.094	0.095	8:44:36 AM	9/21/2011 8:44	0.095
4800	0.095	0.096	0.097	0.098	8:45:36 AM	9/21/2011 8:45	0.098
4860	0.094	0.095	0.096	0.097	8:46:36 AM	9/21/2011 8:46	0.097
4920	0.094	0.095	0.096	0.098	8:47:36 AM	9/21/2011 8:47	0.098
4980	0.096	0.097	0.098	0.1	8:48:36 AM	9/21/2011 8:48	0.1
5040	0.094	0.095	0.096	0.098	8:49:36 AM	9/21/2011 8:49	0.098
5100	0.094	0.095	0.095	0.097	8:50:36 AM	9/21/2011 8:50	0.097
5160	0.094	0.094	0.095	0.096	8:51:36 AM	9/21/2011 8:51	0.096
5220	0.093	0.093	0.094	0.094	8:52:36 AM	9/21/2011 8:52	0.094
5280	0.093	0.093	0.094	0.094	8:53:36 AM	9/21/2011 8:53	0.094
5340	0.091	0.092	0.092	0.093	8:54:36 AM	9/21/2011 8:54	0.093
5400	0.093	0.094	0.094	0.095	8:55:36 AM	9/21/2011 8:55	0.095
5460	0.092	0.093	0.093	0.095	8:56:36 AM	9/21/2011 8:56	0.096
5520	0.093	0.094	0.095	0.096	8:57:36 AM	9/21/2011 8:57	0.096
5580	0.095	0.095	0.096	0.097	8:58:36 AM	9/21/2011 8:58	0.097
5640	0.094	0.095	0.096	0.097	8:59:36 AM	9/21/2011 8:59	0.098
5700	0.092	0.092	0.093	0.094	9:00:36 AM	9/21/2011 9:00	0.094
5760	0.093	0.094	0.094	0.096	9:01:36 AM	9/21/2011 9:01	0.096
5820	0.093	0.093	0.094	0.095	9:02:36 AM	9/21/2011 9:02	0.095
5880	0.096	0.096	0.097	0.098	9:03:36 AM	9/21/2011 9:03	0.098
5940	0.095	0.095	0.096	0.097	9:04:36 AM	9/21/2011 9:04	0.097
6000	0.096	0.096	0.097	0.099	9:05:36 AM	9/21/2011 9:05	0.1
6060	0.097	0.097	0.098	0.101	9:06:36 AM	9/21/2011 9:06	0.102
6120	0.097	0.098	0.099	0.101	9:07:36 AM	9/21/2011 9:07	0.101
6180	0.096	0.097	0.098	0.1	9:08:36 AM	9/21/2011 9:08	0.1
6240	0.094	0.095	0.095	0.097	9:09:36 AM	9/21/2011 9:09	0.097
6300	0.096	0.097	0.097	0.098	9:10:36 AM	9/21/2011 9:10	0.098
6360	0.096	0.096	0.097	0.098	9:11:36 AM	9/21/2011 9:11	0.098
6420	0.092	0.093	0.093	0.094	9:12:36 AM	9/21/2011 9:12	0.094
6480	0.09	0.091	0.092	0.092	9:13:36 AM	9/21/2011 9:13	0.092
6540	0.092	0.092	0.093	0.094	9:14:36 AM	9/21/2011 9:14	0.094
6600	0.091	0.092	0.092	0.093	9:15:36 AM	9/21/2011 9:15	0.093
6660	0.09	0.091	0.091	0.092	9:16:36 AM	9/21/2011 9:16	0.092
6720	0.09	0.091	0.091	0.092	9:17:36 AM	9/21/2011 9:17	0.092
6780	0.09	0.091	0.091	0.092	9:18:36 AM	9/21/2011 9:18	0.092
6840	0.092	0.092	0.093	0.093	9:19:36 AM	9/21/2011 9:19	0.093
6900	0.092	0.092	0.093	0.093	9:20:36 AM	9/21/2011 9:20	0.093
6960	0.09	0.09	0.091	0.091	9:21:36 AM	9/21/2011 9:21	0.091
7020	0.089	0.089	0.09	0.091	9:22:36 AM	9/21/2011 9:22	0.091
7080	0.089	0.09	0.09	0.091	9:23:36 AM	9/21/2011 9:23	0.092
7140	0.09	0.091	0.091	0.092	9:24:36 AM	9/21/2011 9:24	0.092
7200	0.09	0.091	0.091	0.091	9:25:36 AM	9/21/2011 9:25	0.091
7260	0.088	0.089	0.089	0.09	9:26:36 AM	9/21/2011 9:26	0.09
7320	0.088	0.089	0.089	0.09	9:27:36 AM	9/21/2011 9:27	0.09
7380	0.088	0.088	0.089	0.089	9:28:36 AM	9/21/2011 9:28	0.089
7440	0.086	0.086	0.087	0.087	9:29:36 AM	9/21/2011 9:29	0.087
7500	0.085	0.086	0.086	0.087	9:30:36 AM	9/21/2011 9:30	0.087
7560	0.082	0.082	0.083	0.083	9:31:36 AM	9/21/2011 9:31	0.084
7620	0.08	0.08	0.08	0.081	9:32:36 AM	9/21/2011 9:32	0.081
7680	0.078	0.079	0.079	0.08	9:33:36 AM	9/21/2011 9:33	0.08
7740	0.079	0.079	0.08	0.08	9:34:36 AM	9/21/2011 9:34	0.08
7800	0.076	0.076	0.077	0.078	9:35:36 AM	9/21/2011 9:35	0.078
7860	0.076	0.076	0.076	0.077	9:36:36 AM	9/21/2011 9:36	0.077
7920	0.081	0.081	0.081	0.082	9:37:36 AM	9/21/2011 9:37	0.082
7980	0.08	0.08	0.08	0.081	9:38:36 AM	9/21/2011 9:38	0.082
8040	0.082	0.083	0.083	0.085	9:39:36 AM	9/21/2011 9:39	0.086
8100	0.083	0.083	0.084	0.085	9:40:36 AM	9/21/2011 9:40	0.085
8160	0.081	0.081	0.082	0.083	9:41:36 AM	9/21/2011 9:41	0.083
8220	0.082	0.082	0.082	0.084	9:42:36 AM	9/21/2011 9:42	0.084

8280	0.08	0.081	0.081	0.083	9:43:36 AM	9/21/2011 9:43	0.083
8340	0.079	0.08	0.08	0.081	9:44:36 AM	9/21/2011 9:44	0.081
8400	0.075	0.076	0.076	0.077	9:45:36 AM	9/21/2011 9:45	0.078
8460	0.077	0.077	0.078	0.079	9:46:36 AM	9/21/2011 9:46	0.08
8520	0.08	0.08	0.081	0.081	9:47:36 AM	9/21/2011 9:47	0.081
8580	0.082	0.083	0.083	0.084	9:48:36 AM	9/21/2011 9:48	0.085
8640	0.083	0.083	0.084	0.085	9:49:36 AM	9/21/2011 9:49	0.085
8700	0.083	0.084	0.084	0.085	9:50:36 AM	9/21/2011 9:50	0.086
8760	0.082	0.083	0.083	0.084	9:51:36 AM	9/21/2011 9:51	0.084
8820	0.082	0.082	0.083	0.083	9:52:36 AM	9/21/2011 9:52	0.083
8880	0.082	0.082	0.082	0.083	9:53:36 AM	9/21/2011 9:53	0.083
8940	0.081	0.081	0.082	0.082	9:54:36 AM	9/21/2011 9:54	0.082
9000	0.081	0.081	0.081	0.082	9:55:36 AM	9/21/2011 9:55	0.083
9060	0.085	0.085	0.086	0.088	9:56:36 AM	9/21/2011 9:56	0.09
9120	0.096	0.097	0.1	0.11	9:57:36 AM	9/21/2011 9:57	0.112
9180	0.087	0.088	0.09	0.094	9:58:36 AM	9/21/2011 9:58	0.095
9240	0.081	0.082	0.084	0.088	9:59:36 AM	9/21/2011 9:59	0.088
9300	0.074	0.075	0.076	0.078	10:00:36 AM	9/21/2011 10:00	0.08
9360	0.072	0.073	0.073	0.074	10:01:36 AM	9/21/2011 10:01	0.074
9420	0.073	0.073	0.074	0.075	10:02:36 AM	9/21/2011 10:02	0.075
9480	0.073	0.074	0.074	0.075	10:03:36 AM	9/21/2011 10:03	0.075
9540	0.073	0.074	0.074	0.076	10:04:36 AM	9/21/2011 10:04	0.077
9600	0.071	0.072	0.072	0.074	10:05:36 AM	9/21/2011 10:05	0.074
9660	0.068	0.069	0.069	0.071	10:06:36 AM	9/21/2011 10:06	0.071
9720	0.08	0.081	0.083	0.088	10:07:36 AM	9/21/2011 10:07	0.09
9780	0.09	0.092	0.096	0.106	10:08:36 AM	9/21/2011 10:08	0.109
9840	0.085	0.087	0.089	0.098	10:09:36 AM	9/21/2011 10:09	0.099
9900	0.073	0.074	0.076	0.079	10:10:36 AM	9/21/2011 10:10	0.08
9960	0.066	0.066	0.068	0.07	10:11:36 AM	9/21/2011 10:11	0.07
10020	0.056	0.056	0.057	0.058	10:12:36 AM	9/21/2011 10:12	0.058
10080	0.059	0.059	0.06	0.061	10:13:36 AM	9/21/2011 10:13	0.061
10140	0.064	0.064	0.065	0.066	10:14:36 AM	9/21/2011 10:14	0.067
10200	0.07	0.07	0.072	0.077	10:15:36 AM	9/21/2011 10:15	0.079
10260	0.066	0.067	0.068	0.071	10:16:36 AM	9/21/2011 10:16	0.072
10320	0.079	0.08	0.082	0.091	10:17:36 AM	9/21/2011 10:17	0.093
10380	0.083	0.085	0.089	0.103	10:18:36 AM	9/21/2011 10:18	0.105
10440	0.078	0.079	0.083	0.095	10:19:36 AM	9/21/2011 10:19	0.098
10500	0.074	0.075	0.078	0.087	10:20:36 AM	9/21/2011 10:20	0.089
10560	0.068	0.069	0.07	0.077	10:21:36 AM	9/21/2011 10:21	0.078
10620	0.07	0.071	0.073	0.08	10:22:36 AM	9/21/2011 10:22	0.081
10680	0.084	0.086	0.09	0.104	10:23:36 AM	9/21/2011 10:23	0.106
10740	0.101	0.105	0.112	0.132	10:24:36 AM	9/21/2011 10:24	0.139
10800	0.11	0.114	0.121	0.147	10:25:36 AM	9/21/2011 10:25	0.154
10860	0.1	0.103	0.109	0.126	10:26:36 AM	9/21/2011 10:26	0.133
10920	0.082	0.083	0.086	0.094	10:27:36 AM	9/21/2011 10:27	0.096
10980	0.074	0.075	0.077	0.082	10:28:36 AM	9/21/2011 10:28	0.083
11040	0.066	0.067	0.068	0.069	10:29:36 AM	9/21/2011 10:29	0.071
11100	0.068	0.069	0.07	0.072	10:30:36 AM	9/21/2011 10:30	0.073
11160	0.068	0.069	0.07	0.072	10:31:36 AM	9/21/2011 10:31	0.072
11220	0.065	0.066	0.067	0.068	10:32:36 AM	9/21/2011 10:32	0.068
11280	0.063	0.064	0.064	0.066	10:33:36 AM	9/21/2011 10:33	0.067
11340	0.064	0.065	0.066	0.068	10:34:36 AM	9/21/2011 10:34	0.069
11400	0.065	0.066	0.067	0.069	10:35:36 AM	9/21/2011 10:35	0.07
11460	0.064	0.065	0.066	0.069	10:36:36 AM	9/21/2011 10:36	0.069
11520	0.06	0.06	0.061	0.063	10:37:36 AM	9/21/2011 10:37	0.063
11580	0.056	0.056	0.057	0.058	10:38:36 AM	9/21/2011 10:38	0.058
11640	0.056	0.057	0.058	0.059	10:39:36 AM	9/21/2011 10:39	0.06
11700	0.059	0.06	0.062	0.065	10:40:36 AM	9/21/2011 10:40	0.066
11760	0.059	0.06	0.062	0.066	10:41:36 AM	9/21/2011 10:41	0.067
11820	0.054	0.055	0.056	0.059	10:42:36 AM	9/21/2011 10:42	0.06
11880	0.05	0.05	0.05	0.052	10:43:36 AM	9/21/2011 10:43	0.052
11940	0.053	0.053	0.054	0.055	10:44:36 AM	9/21/2011 10:44	0.056
12000	0.053	0.053	0.053	0.055	10:45:36 AM	9/21/2011 10:45	0.055
12060	0.054	0.055	0.056	0.057	10:46:36 AM	9/21/2011 10:46	0.057
12120	0.051	0.051	0.052	0.053	10:47:36 AM	9/21/2011 10:47	0.053
12180	0.045	0.046	0.046	0.047	10:48:36 AM	9/21/2011 10:48	0.047
12240	0.045	0.046	0.046	0.048	10:49:36 AM	9/21/2011 10:49	0.048
12300	0.046	0.047	0.047	0.048	10:50:36 AM	9/21/2011 10:50	0.049
12360	0.049	0.049	0.05	0.052	10:51:36 AM	9/21/2011 10:51	0.052
12420	0.049	0.049	0.05	0.052	10:52:36 AM	9/21/2011 10:52	0.052
12480	0.048	0.049	0.049	0.05	10:53:36 AM	9/21/2011 10:53	0.05
12540	0.052	0.053	0.054	0.056	10:54:36 AM	9/21/2011 10:54	0.057
12600	0.049	0.05	0.05	0.052	10:55:36 AM	9/21/2011 10:55	0.052
12660	0.048	0.048	0.049	0.051	10:56:36 AM	9/21/2011 10:56	0.051
12720	0.051	0.051	0.052	0.056	10:57:36 AM	9/21/2011 10:57	0.057
12780	0.052	0.052	0.053	0.058	10:58:36 AM	9/21/2011 10:58	0.058
12840	0.083	0.086	0.092	0.115	10:59:36 AM	9/21/2011 10:59	0.122
12900	0.082	0.085	0.091	0.116	11:00:36 AM	9/21/2011 11:00	0.124
12960	0.069	0.072	0.076	0.096	11:01:36 AM	9/21/2011 11:01	0.104
13020	0.061	0.062	0.066	0.08	11:02:36 AM	9/21/2011 11:02	0.085
13080	0.044	0.044	0.046	0.049	11:03:36 AM	9/21/2011 11:03	0.051
13140	0.04	0.04	0.041	0.043	11:04:36 AM	9/21/2011 11:04	0.043
13200	0.038	0.038	0.038	0.04	11:05:36 AM	9/21/2011 11:05	0.04
13260	0.037	0.037	0.037	0.038	11:06:36 AM	9/21/2011 11:06	0.038
13320	0.037	0.037	0.038	0.038	11:07:36 AM	9/21/2011 11:07	0.039
13380	0.038	0.038	0.038	0.039	11:08:36 AM	9/21/2011 11:08	0.04
13440	0.039	0.039	0.039	0.04	11:09:36 AM	9/21/2011 11:09	0.041

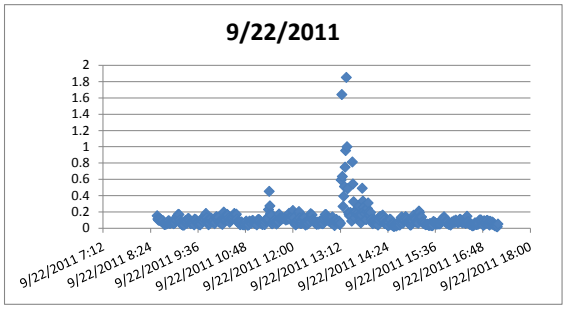
13500	0.04	0.04	0.041	0.041	11:10:36 AM	9/21/2011 11:10	0.042
13560	0.045	0.045	0.046	0.048	11:11:36 AM	9/21/2011 11:11	0.049
13620	0.042	0.042	0.043	0.044	11:12:36 AM	9/21/2011 11:12	0.044
13680	0.042	0.042	0.043	0.045	11:13:36 AM	9/21/2011 11:13	0.045
13740	0.041	0.042	0.042	0.043	11:14:36 AM	9/21/2011 11:14	0.043
13800	0.046	0.047	0.047	0.049	11:15:36 AM	9/21/2011 11:15	0.05
13860	0.042	0.043	0.043	0.045	11:16:36 AM	9/21/2011 11:16	0.045
13920	0.04	0.041	0.041	0.042	11:17:36 AM	9/21/2011 11:17	0.043
13980	0.039	0.039	0.039	0.04	11:18:36 AM	9/21/2011 11:18	0.041
14040	0.04	0.041	0.041	0.042	11:19:36 AM	9/21/2011 11:19	0.042
14100	0.04	0.041	0.041	0.042	11:20:36 AM	9/21/2011 11:20	0.042
14160	0.049	0.05	0.052	0.055	11:21:36 AM	9/21/2011 11:21	0.057
14220	0.046	0.047	0.049	0.051	11:22:36 AM	9/21/2011 11:22	0.052
14280	0.042	0.043	0.044	0.046	11:23:36 AM	9/21/2011 11:23	0.047
14340	0.041	0.041	0.042	0.044	11:24:36 AM	9/21/2011 11:24	0.044
14400	0.04	0.041	0.041	0.043	11:25:36 AM	9/21/2011 11:25	0.044
14460	0.036	0.036	0.037	0.038	11:26:36 AM	9/21/2011 11:26	0.038
14520	0.037	0.037	0.038	0.039	11:27:36 AM	9/21/2011 11:27	0.039
14580	0.04	0.041	0.041	0.042	11:28:36 AM	9/21/2011 11:28	0.042
14640	0.041	0.041	0.042	0.043	11:29:36 AM	9/21/2011 11:29	0.043
14700	0.039	0.04	0.04	0.041	11:30:36 AM	9/21/2011 11:30	0.041
14760	0.04	0.04	0.041	0.042	11:31:36 AM	9/21/2011 11:31	0.042
14820	0.042	0.043	0.044	0.047	11:32:36 AM	9/21/2011 11:32	0.049
14880	0.044	0.045	0.046	0.049	11:33:36 AM	9/21/2011 11:33	0.051
14940	0.039	0.04	0.041	0.044	11:34:36 AM	9/21/2011 11:34	0.046
15000	0.034	0.034	0.034	0.036	11:35:36 AM	9/21/2011 11:35	0.036
15060	0.033	0.033	0.034	0.034	11:36:36 AM	9/21/2011 11:36	0.034
15120	0.037	0.038	0.038	0.04	11:37:36 AM	9/21/2011 11:37	0.041
15180	0.045	0.045	0.047	0.051	11:38:36 AM	9/21/2011 11:38	0.052
15240	0.051	0.052	0.055	0.06	11:39:36 AM	9/21/2011 11:39	0.06
15300	0.054	0.055	0.058	0.064	11:40:36 AM	9/21/2011 11:40	0.066
15360	0.044	0.045	0.047	0.051	11:41:36 AM	9/21/2011 11:41	0.051
15420	0.044	0.044	0.046	0.048	11:42:36 AM	9/21/2011 11:42	0.05
15480	0.055	0.056	0.059	0.066	11:43:36 AM	9/21/2011 11:43	0.069
15540	0.049	0.05	0.052	0.056	11:44:36 AM	9/21/2011 11:44	0.058
15600	0.04	0.041	0.041	0.043	11:45:36 AM	9/21/2011 11:45	0.043
15660	0.035	0.036	0.036	0.039	11:46:36 AM	9/21/2011 11:46	0.04
15720	0.035	0.036	0.036	0.038	11:47:36 AM	9/21/2011 11:47	0.038
15780	0.051	0.052	0.054	0.061	11:48:36 AM	9/21/2011 11:48	0.061
15840	0.059	0.061	0.063	0.072	11:49:36 AM	9/21/2011 11:49	0.074
15900	0.05	0.051	0.053	0.058	11:50:36 AM	9/21/2011 11:50	0.06
15960	0.054	0.055	0.058	0.064	11:51:36 AM	9/21/2011 11:51	0.068
16020	0.044	0.044	0.046	0.052	11:52:36 AM	9/21/2011 11:52	0.052
16080	0.041	0.042	0.043	0.047	11:53:36 AM	9/21/2011 11:53	0.048
16140	0.036	0.036	0.037	0.039	11:54:36 AM	9/21/2011 11:54	0.039
16200	0.033	0.034	0.034	0.035	11:55:36 AM	9/21/2011 11:55	0.035
16260	0.032	0.032	0.033	0.036	11:56:36 AM	9/21/2011 11:56	0.038
16320	0.03	0.03	0.031	0.033	11:57:36 AM	9/21/2011 11:57	0.034
16380	0.033	0.034	0.035	0.039	11:58:36 AM	9/21/2011 11:58	0.04
16440	0.031	0.031	0.032	0.038	11:59:36 AM	9/21/2011 11:59	0.039
16500	0.027	0.028	0.028	0.03	12:00:36 PM	9/21/2011 12:00	0.03
16560	0.027	0.027	0.027	0.028	12:01:36 PM	9/21/2011 12:01	0.028
16620	0.028	0.028	0.028	0.029	12:02:36 PM	9/21/2011 12:02	0.029
16680	0.028	0.028	0.028	0.029	12:03:36 PM	9/21/2011 12:03	0.03
16740	0.028	0.028	0.028	0.029	12:04:36 PM	9/21/2011 12:04	0.03
16800	0.043	0.044	0.047	0.059	12:05:36 PM	9/21/2011 12:05	0.063
16860	0.041	0.041	0.044	0.054	12:06:36 PM	9/21/2011 12:06	0.058
16920	0.034	0.035	0.036	0.039	12:07:36 PM	9/21/2011 12:07	0.041
16980	0.032	0.032	0.033	0.035	12:08:36 PM	9/21/2011 12:08	0.036
17040	0.057	0.059	0.063	0.08	12:09:36 PM	9/21/2011 12:09	0.086
17100	0.071	0.073	0.081	0.109	12:10:36 PM	9/21/2011 12:10	0.12
17160	0.088	0.092	0.103	0.144	12:11:36 PM	9/21/2011 12:11	0.156
17220	0.081	0.085	0.094	0.13	12:12:36 PM	9/21/2011 12:12	0.139
17280	0.059	0.062	0.067	0.086	12:13:36 PM	9/21/2011 12:13	0.091
17340	0.071	0.076	0.087	0.111	12:14:36 PM	9/21/2011 12:14	0.114
17400	0.055	0.058	0.065	0.081	12:15:36 PM	9/21/2011 12:15	0.083
17460	0.054	0.056	0.061	0.075	12:16:36 PM	9/21/2011 12:16	0.08
17520	0.057	0.058	0.062	0.079	12:17:36 PM	9/21/2011 12:17	0.085
17580	0.061	0.063	0.068	0.085	12:18:36 PM	9/21/2011 12:18	0.091
17640	0.086	0.09	0.099	0.124	12:19:36 PM	9/21/2011 12:19	0.129
17700	0.063	0.066	0.071	0.087	12:20:36 PM	9/21/2011 12:20	0.092
17760	0.05	0.051	0.054	0.064	12:21:36 PM	9/21/2011 12:21	0.068
17820	0.043	0.044	0.046	0.054	12:22:36 PM	9/21/2011 12:22	0.056
17880	0.047	0.049	0.051	0.058	12:23:36 PM	9/21/2011 12:23	0.06
17940	0.052	0.054	0.059	0.073	12:24:36 PM	9/21/2011 12:24	0.075
18000	0.047	0.049	0.052	0.06	12:25:36 PM	9/21/2011 12:25	0.062
18060	0.046	0.048	0.051	0.06	12:26:36 PM	9/21/2011 12:26	0.061
18120	0.051	0.052	0.056	0.066	12:27:36 PM	9/21/2011 12:27	0.07
18180	0.057	0.059	0.062	0.072	12:28:36 PM	9/21/2011 12:28	0.074
18240	0.052	0.054	0.057	0.063	12:29:36 PM	9/21/2011 12:29	0.065
18300	0.045	0.046	0.048	0.053	12:30:36 PM	9/21/2011 12:30	0.054
18360	0.04	0.041	0.043	0.049	12:31:36 PM	9/21/2011 12:31	0.05
18420	0.041	0.041	0.043	0.047	12:32:36 PM	9/21/2011 12:32	0.049
18480	0.044	0.045	0.046	0.051	12:33:36 PM	9/21/2011 12:33	0.054
18540	0.07	0.071	0.073	0.081	12:34:36 PM	9/21/2011 12:34	0.086
18600	0.046	0.047	0.049	0.053	12:35:36 PM	9/21/2011 12:35	0.054
18660	0.058	0.06	0.064	0.082	12:36:36 PM	9/21/2011 12:36	0.085

18720	0.054	0.056	0.06	0.075	12:37:36 PM	9/21/2011 12:37	0.079
18780	0.057	0.059	0.063	0.079	12:38:36 PM	9/21/2011 12:38	0.083
18840	0.07	0.073	0.08	0.108	12:39:36 PM	9/21/2011 12:39	0.112
18900	0.058	0.059	0.064	0.08	12:40:36 PM	9/21/2011 12:40	0.085
18960	0.061	0.063	0.069	0.088	12:41:36 PM	9/21/2011 12:41	0.091
19020	0.052	0.054	0.057	0.073	12:42:36 PM	9/21/2011 12:42	0.076
19080	0.059	0.061	0.067	0.086	12:43:36 PM	9/21/2011 12:43	0.089
19140	0.057	0.059	0.064	0.079	12:44:36 PM	9/21/2011 12:44	0.084
19200	0.049	0.05	0.052	0.058	12:45:36 PM	9/21/2011 12:45	0.06
19260	0.045	0.046	0.047	0.052	12:46:36 PM	9/21/2011 12:46	0.053
19320	0.04	0.04	0.041	0.043	12:47:36 PM	9/21/2011 12:47	0.043
19380	0.042	0.042	0.044	0.046	12:48:36 PM	9/21/2011 12:48	0.047
19440	0.048	0.048	0.049	0.054	12:49:36 PM	9/21/2011 12:49	0.055
19500	0.048	0.048	0.049	0.052	12:50:36 PM	9/21/2011 12:50	0.053
19560	0.043	0.044	0.044	0.045	12:51:36 PM	9/21/2011 12:51	0.045
19620	0.047	0.048	0.049	0.057	12:52:36 PM	9/21/2011 12:52	0.059
19680	0.043	0.044	0.045	0.048	12:53:36 PM	9/21/2011 12:53	0.049
19740	0.042	0.042	0.044	0.047	12:54:36 PM	9/21/2011 12:54	0.048
19800	0.049	0.05	0.052	0.06	12:55:36 PM	9/21/2011 12:55	0.065
19860	0.049	0.049	0.051	0.054	12:56:36 PM	9/21/2011 12:56	0.056
19920	0.042	0.043	0.043	0.045	12:57:36 PM	9/21/2011 12:57	0.045
19980	0.059	0.06	0.061	0.065	12:58:36 PM	9/21/2011 12:58	0.066
20040	0.104	0.106	0.11	0.125	12:59:36 PM	9/21/2011 12:59	0.127
20100	0.08	0.082	0.086	0.104	1:00:36 PM	9/21/2011 13:00	0.111
20160	0.05	0.051	0.053	0.059	1:01:36 PM	9/21/2011 13:01	0.062
20220	0.047	0.047	0.048	0.052	1:02:36 PM	9/21/2011 13:02	0.052
20280	0.051	0.052	0.055	0.061	1:03:36 PM	9/21/2011 13:03	0.062
20340	0.048	0.049	0.05	0.056	1:04:36 PM	9/21/2011 13:04	0.058
20400	0.063	0.065	0.069	0.084	1:05:36 PM	9/21/2011 13:05	0.089
20460	0.051	0.052	0.054	0.062	1:06:36 PM	9/21/2011 13:06	0.064
20520	0.057	0.058	0.062	0.076	1:07:36 PM	9/21/2011 13:07	0.081
20580	0.058	0.059	0.064	0.079	1:08:36 PM	9/21/2011 13:08	0.084
20640	0.059	0.061	0.064	0.078	1:09:36 PM	9/21/2011 13:09	0.082
20700	0.046	0.046	0.048	0.053	1:10:36 PM	9/21/2011 13:10	0.054
20760	0.038	0.038	0.039	0.042	1:11:36 PM	9/21/2011 13:11	0.043
20820	0.037	0.038	0.038	0.041	1:12:36 PM	9/21/2011 13:12	0.043
20880	0.041	0.041	0.043	0.049	1:13:36 PM	9/21/2011 13:13	0.053
20940	0.04	0.041	0.042	0.045	1:14:36 PM	9/21/2011 13:14	0.046
21000	0.047	0.048	0.05	0.061	1:15:36 PM	9/21/2011 13:15	0.065
21060	0.053	0.054	0.057	0.069	1:16:36 PM	9/21/2011 13:16	0.075
21120	0.044	0.045	0.047	0.052	1:17:36 PM	9/21/2011 13:17	0.054
21180	0.041	0.041	0.042	0.045	1:18:36 PM	9/21/2011 13:18	0.048
21240	0.04	0.04	0.041	0.042	1:19:36 PM	9/21/2011 13:19	0.043
21300	0.041	0.041	0.042	0.043	1:20:36 PM	9/21/2011 13:20	0.043
21360	0.04	0.04	0.041	0.042	1:21:36 PM	9/21/2011 13:21	0.043
21420	0.039	0.039	0.04	0.042	1:22:36 PM	9/21/2011 13:22	0.042
21480	0.059	0.061	0.065	0.079	1:23:36 PM	9/21/2011 13:23	0.082
21540	0.06	0.062	0.066	0.077	1:24:36 PM	9/21/2011 13:24	0.081
21600	0.042	0.043	0.045	0.049	1:25:36 PM	9/21/2011 13:25	0.05
21660	0.04	0.04	0.042	0.049	1:26:36 PM	9/21/2011 13:26	0.05
21720	0.038	0.039	0.041	0.05	1:27:36 PM	9/21/2011 13:27	0.054
21780	0.042	0.043	0.045	0.052	1:28:36 PM	9/21/2011 13:28	0.054
21840	0.04	0.041	0.043	0.048	1:29:36 PM	9/21/2011 13:29	0.049
21900	0.045	0.046	0.048	0.054	1:30:36 PM	9/21/2011 13:30	0.057
21960	0.04	0.041	0.043	0.047	1:31:36 PM	9/21/2011 13:31	0.048
22020	0.037	0.038	0.04	0.045	1:32:36 PM	9/21/2011 13:32	0.047
22080	0.037	0.038	0.039	0.045	1:33:36 PM	9/21/2011 13:33	0.047
22140	0.035	0.036	0.037	0.043	1:34:36 PM	9/21/2011 13:34	0.046
22200	0.038	0.039	0.041	0.049	1:35:36 PM	9/21/2011 13:35	0.054
22260	0.044	0.045	0.048	0.058	1:36:36 PM	9/21/2011 13:36	0.063
22320	0.038	0.04	0.042	0.052	1:37:36 PM	9/21/2011 13:37	0.054
22380	0.035	0.036	0.038	0.044	1:38:36 PM	9/21/2011 13:38	0.044
22440	0.038	0.039	0.041	0.049	1:39:36 PM	9/21/2011 13:39	0.05
22500	0.041	0.043	0.046	0.06	1:40:36 PM	9/21/2011 13:40	0.063
22560	0.032	0.033	0.035	0.042	1:41:36 PM	9/21/2011 13:41	0.045
22620	0.043	0.044	0.048	0.057	1:42:36 PM	9/21/2011 13:42	0.061
22680	0.046	0.047	0.05	0.06	1:43:36 PM	9/21/2011 13:43	0.064
22740	0.067	0.07	0.079	0.117	1:44:36 PM	9/21/2011 13:44	0.129
22800	0.05	0.052	0.058	0.084	1:45:36 PM	9/21/2011 13:45	0.09
22860	0.043	0.045	0.049	0.066	1:46:36 PM	9/21/2011 13:46	0.072
22920	0.028	0.029	0.031	0.038	1:47:36 PM	9/21/2011 13:47	0.038
22980	0.027	0.028	0.029	0.036	1:48:36 PM	9/21/2011 13:48	0.037
23040	0.045	0.047	0.053	0.077	1:49:36 PM	9/21/2011 13:49	0.084
23100	0.037	0.038	0.041	0.051	1:50:36 PM	9/21/2011 13:50	0.054
23160	0.032	0.033	0.035	0.043	1:51:36 PM	9/21/2011 13:51	0.045
23220	0.039	0.041	0.045	0.062	1:52:36 PM	9/21/2011 13:52	0.066
23280	0.044	0.046	0.05	0.071	1:53:36 PM	9/21/2011 13:53	0.081
23340	0.037	0.038	0.041	0.056	1:54:36 PM	9/21/2011 13:54	0.064
23400	0.03	0.031	0.033	0.043	1:55:36 PM	9/21/2011 13:55	0.047
23460	0.049	0.051	0.057	0.083	1:56:36 PM	9/21/2011 13:56	0.093
23520	0.057	0.06	0.068	0.101	1:57:36 PM	9/21/2011 13:57	0.114
23580	0.05	0.052	0.059	0.087	1:58:36 PM	9/21/2011 13:58	0.095
23640	0.047	0.05	0.056	0.079	1:59:36 PM	9/21/2011 13:59	0.087
23700	0.029	0.03	0.033	0.04	2:00:36 PM	9/21/2011 14:00	0.043
23760	0.036	0.037	0.039	0.051	2:01:36 PM	9/21/2011 14:01	0.055
23820	0.033	0.034	0.035	0.041	2:02:36 PM	9/21/2011 14:02	0.043
23880	0.029	0.029	0.03	0.034	2:03:36 PM	9/21/2011 14:03	0.035

23940	0.031	0.032	0.035	0.043	2:04:36 PM	9/21/2011 14:04	0.045
24000	0.025	0.025	0.027	0.032	2:05:36 PM	9/21/2011 14:05	0.033
24060	0.027	0.028	0.029	0.035	2:06:36 PM	9/21/2011 14:06	0.037
24120	0.025	0.026	0.028	0.033	2:07:36 PM	9/21/2011 14:07	0.035
24180	0.029	0.03	0.033	0.044	2:08:36 PM	9/21/2011 14:08	0.046
24240	0.034	0.036	0.039	0.051	2:09:36 PM	9/21/2011 14:09	0.053
24300	0.03	0.032	0.034	0.042	2:10:36 PM	9/21/2011 14:10	0.043
24360	0.027	0.028	0.03	0.036	2:11:36 PM	9/21/2011 14:11	0.037
24420	0.031	0.032	0.034	0.039	2:12:36 PM	9/21/2011 14:12	0.041
24480	0.026	0.026	0.028	0.033	2:13:36 PM	9/21/2011 14:13	0.035
24540	0.024	0.024	0.025	0.028	2:14:36 PM	9/21/2011 14:14	0.029
24600	0.022	0.023	0.024	0.025	2:15:36 PM	9/21/2011 14:15	0.026
24660	0.024	0.024	0.025	0.027	2:16:36 PM	9/21/2011 14:16	0.028
24720	0.033	0.034	0.037	0.049	2:17:36 PM	9/21/2011 14:17	0.052
24780	0.026	0.027	0.029	0.036	2:18:36 PM	9/21/2011 14:18	0.039
24840	0.023	0.024	0.024	0.027	2:19:36 PM	9/21/2011 14:19	0.028
24900	0.024	0.025	0.026	0.028	2:20:36 PM	9/21/2011 14:20	0.028
24960	0.024	0.024	0.025	0.027	2:21:36 PM	9/21/2011 14:21	0.027
25020	0.023	0.024	0.024	0.027	2:22:36 PM	9/21/2011 14:22	0.028
25080	0.023	0.023	0.024	0.025	2:23:36 PM	9/21/2011 14:23	0.026
25140	0.062	0.065	0.072	0.1	2:24:36 PM	9/21/2011 14:24	0.109
25200	0.052	0.055	0.061	0.082	2:25:36 PM	9/21/2011 14:25	0.088
25260	0.042	0.044	0.047	0.06	2:26:36 PM	9/21/2011 14:26	0.065
25320	0.035	0.037	0.04	0.047	2:27:36 PM	9/21/2011 14:27	0.049
25380	0.047	0.05	0.054	0.07	2:28:36 PM	9/21/2011 14:28	0.075
25440	0.037	0.038	0.042	0.048	2:29:36 PM	9/21/2011 14:29	0.051
25500	0.045	0.048	0.052	0.068	2:30:36 PM	9/21/2011 14:30	0.075
25560	0.041	0.043	0.046	0.06	2:31:36 PM	9/21/2011 14:31	0.063
25620	0.037	0.039	0.042	0.052	2:32:36 PM	9/21/2011 14:32	0.055
25680	0.038	0.04	0.044	0.059	2:33:36 PM	9/21/2011 14:33	0.065
25740	0.04	0.042	0.046	0.061	2:34:36 PM	9/21/2011 14:34	0.066
25800	0.04	0.042	0.045	0.059	2:35:36 PM	9/21/2011 14:35	0.062
25860	0.033	0.034	0.037	0.046	2:36:36 PM	9/21/2011 14:36	0.049
25920	0.034	0.035	0.037	0.046	2:37:36 PM	9/21/2011 14:37	0.048
25980	0.032	0.034	0.036	0.044	2:38:36 PM	9/21/2011 14:38	0.044
26040	0.025	0.026	0.026	0.029	2:39:36 PM	9/21/2011 14:39	0.031
26100	0.025	0.026	0.027	0.03	2:40:36 PM	9/21/2011 14:40	0.034
26160	0.024	0.025	0.026	0.028	2:41:36 PM	9/21/2011 14:41	0.029
26220	0.043	0.044	0.05	0.072	2:42:36 PM	9/21/2011 14:42	0.078
26280	0.096	0.102	0.119	0.19	2:43:36 PM	9/21/2011 14:43	0.207
26340	0.086	0.091	0.106	0.159	2:44:36 PM	9/21/2011 14:44	0.171
26400	0.041	0.043	0.047	0.061	2:45:36 PM	9/21/2011 14:45	0.065
26460	0.027	0.028	0.03	0.035	2:46:36 PM	9/21/2011 14:46	0.037
26520	0.028	0.029	0.031	0.036	2:47:36 PM	9/21/2011 14:47	0.037
26580	0.031	0.032	0.033	0.039	2:48:36 PM	9/21/2011 14:48	0.04
26640	0.029	0.03	0.031	0.037	2:49:36 PM	9/21/2011 14:49	0.037
26700	0.025	0.026	0.027	0.029	2:50:36 PM	9/21/2011 14:50	0.03
26760	0.043	0.046	0.051	0.066	2:51:36 PM	9/21/2011 14:51	0.072
26820	0.038	0.04	0.043	0.057	2:52:36 PM	9/21/2011 14:52	0.062
26880	0.041	0.043	0.047	0.064	2:53:36 PM	9/21/2011 14:53	0.071
26940	0.047	0.05	0.055	0.078	2:54:36 PM	9/21/2011 14:54	0.083
27000	0.053	0.056	0.062	0.084	2:55:36 PM	9/21/2011 14:55	0.091
27060	0.052	0.056	0.061	0.079	2:56:36 PM	9/21/2011 14:56	0.084
27120	0.049	0.052	0.057	0.071	2:57:36 PM	9/21/2011 14:57	0.078
27180	0.137	0.145	0.169	0.28	2:58:36 PM	9/21/2011 14:58	0.318
27240	0.076	0.08	0.091	0.138	2:59:36 PM	9/21/2011 14:59	0.151
27300	0.05	0.053	0.058	0.078	3:00:36 PM	9/21/2011 15:00	0.085
27360	0.054	0.057	0.063	0.085	3:01:36 PM	9/21/2011 15:01	0.092
27420	0.042	0.044	0.048	0.061	3:02:36 PM	9/21/2011 15:02	0.067
27480	0.028	0.029	0.031	0.038	3:03:36 PM	9/21/2011 15:03	0.041
27540	0.025	0.026	0.028	0.033	3:04:36 PM	9/21/2011 15:04	0.034
27600	0.02	0.021	0.022	0.023	3:05:36 PM	9/21/2011 15:05	0.024
27660	0.019	0.019	0.02	0.021	3:06:36 PM	9/21/2011 15:06	0.022
27720	0.023	0.024	0.025	0.029	3:07:36 PM	9/21/2011 15:07	0.03
27780	0.023	0.023	0.024	0.029	3:08:36 PM	9/21/2011 15:08	0.029
27840	0.021	0.021	0.022	0.024	3:09:36 PM	9/21/2011 15:09	0.025
27900	0.02	0.02	0.021	0.024	3:10:36 PM	9/21/2011 15:10	0.024
27960	0.059	0.06	0.062	0.071	3:11:36 PM	9/21/2011 15:11	0.074
28020	0.061	0.063	0.07	0.097	3:12:36 PM	9/21/2011 15:12	0.103
28080	0.047	0.049	0.055	0.078	3:13:36 PM	9/21/2011 15:13	0.084
28140	0.033	0.035	0.038	0.053	3:14:36 PM	9/21/2011 15:14	0.057
28200	0.026	0.027	0.029	0.036	3:15:36 PM	9/21/2011 15:15	0.038
28260	0.044	0.046	0.05	0.061	3:16:36 PM	9/21/2011 15:16	0.064
28320	0.039	0.04	0.044	0.053	3:17:36 PM	9/21/2011 15:17	0.055
28380	0.031	0.033	0.035	0.041	3:18:36 PM	9/21/2011 15:18	0.043
28440	0.087	0.091	0.105	0.159	3:19:36 PM	9/21/2011 15:19	0.171
28500	0.079	0.083	0.095	0.133	3:20:36 PM	9/21/2011 15:20	0.145
28560	0.073	0.077	0.087	0.123	3:21:36 PM	9/21/2011 15:21	0.132
28620	0.081	0.085	0.097	0.137	3:22:36 PM	9/21/2011 15:22	0.147
28680	0.088	0.092	0.105	0.158	3:23:36 PM	9/21/2011 15:23	0.174
28740	0.059	0.063	0.072	0.103	3:24:36 PM	9/21/2011 15:24	0.111
28800	0.064	0.068	0.078	0.114	3:25:36 PM	9/21/2011 15:25	0.119
28860	0.097	0.103	0.123	0.209	3:26:36 PM	9/21/2011 15:26	0.233
28920	0.041	0.044	0.049	0.07	3:27:36 PM	9/21/2011 15:27	0.075
28980	0.034	0.036	0.04	0.053	3:28:36 PM	9/21/2011 15:28	0.057
29040	0.041	0.043	0.048	0.06	3:29:36 PM	9/21/2011 15:29	0.062
29100	0.031	0.033	0.036	0.045	3:30:36 PM	9/21/2011 15:30	0.046

29160	0.03	0.031	0.034	0.04	3:31:36 PM	9/21/2011 15:31	0.041
29220	0.03	0.032	0.034	0.041	3:32:36 PM	9/21/2011 15:32	0.044
29280	0.026	0.027	0.03	0.039	3:33:36 PM	9/21/2011 15:33	0.041
29340	0.022	0.022	0.024	0.031	3:34:36 PM	9/21/2011 15:34	0.032
29400	0.029	0.031	0.033	0.041	3:35:36 PM	9/21/2011 15:35	0.045
29460	0.063	0.066	0.076	0.121	3:36:36 PM	9/21/2011 15:36	0.132
29520	0.073	0.077	0.087	0.133	3:37:36 PM	9/21/2011 15:37	0.145
29580	0.037	0.039	0.043	0.057	3:38:36 PM	9/21/2011 15:38	0.063
29640	0.036	0.038	0.041	0.055	3:39:36 PM	9/21/2011 15:39	0.06
29700	0.032	0.034	0.037	0.046	3:40:36 PM	9/21/2011 15:40	0.049
29760	0.019	0.019	0.02	0.024	3:41:36 PM	9/21/2011 15:41	0.025
29820	0.018	0.019	0.02	0.022	3:42:36 PM	9/21/2011 15:42	0.022
29880	0.019	0.019	0.02	0.023	3:43:36 PM	9/21/2011 15:43	0.024
29940	0.04	0.043	0.05	0.066	3:44:36 PM	9/21/2011 15:44	0.07
30000	0.059	0.064	0.074	0.1	3:45:36 PM	9/21/2011 15:45	0.109
30060	0.058	0.062	0.072	0.103	3:46:36 PM	9/21/2011 15:46	0.114
30120	0.044	0.047	0.053	0.073	3:47:36 PM	9/21/2011 15:47	0.078
30180	0.029	0.031	0.034	0.045	3:48:36 PM	9/21/2011 15:48	0.048
30240	0.034	0.036	0.04	0.056	3:49:36 PM	9/21/2011 15:49	0.062
30300	0.022	0.023	0.025	0.03	3:50:36 PM	9/21/2011 15:50	0.033
30360	0.025	0.027	0.03	0.039	3:51:36 PM	9/21/2011 15:51	0.042
30420	0.025	0.026	0.029	0.038	3:52:36 PM	9/21/2011 15:52	0.043
30480	0.023	0.024	0.027	0.033	3:53:36 PM	9/21/2011 15:53	0.033
30540	0.05	0.054	0.062	0.094	3:54:36 PM	9/21/2011 15:54	0.104
30600	0.116	0.124	0.146	0.23	3:55:36 PM	9/21/2011 15:55	0.263
30660	0.211	0.227	0.276	0.486	3:56:36 PM	9/21/2011 15:56	0.546
30720	0.08	0.086	0.103	0.172	3:57:36 PM	9/21/2011 15:57	0.193
30780	0.07	0.073	0.082	0.115	3:58:36 PM	9/21/2011 15:58	0.126
30840	0.062	0.064	0.07	0.087	3:59:36 PM	9/21/2011 15:59	0.091
30900	0.072	0.077	0.088	0.121	4:00:36 PM	9/21/2011 16:00	0.129
30960	0.034	0.035	0.038	0.047	4:01:36 PM	9/21/2011 16:01	0.049
31020	0.029	0.03	0.032	0.04	4:02:36 PM	9/21/2011 16:02	0.043
31080	0.018	0.019	0.02	0.023	4:03:36 PM	9/21/2011 16:03	0.023
31140	0.033	0.035	0.039	0.051	4:04:36 PM	9/21/2011 16:04	0.054
31200	0.045	0.049	0.057	0.076	4:05:36 PM	9/21/2011 16:05	0.078
31260	0.035	0.037	0.041	0.052	4:06:36 PM	9/21/2011 16:06	0.055
31320	0.025	0.026	0.028	0.035	4:07:36 PM	9/21/2011 16:07	0.037
31380	0.025	0.026	0.028	0.035	4:08:36 PM	9/21/2011 16:08	0.035
31440	0.02	0.021	0.022	0.026	4:09:36 PM	9/21/2011 16:09	0.027
31500	0.028	0.029	0.031	0.038	4:10:36 PM	9/21/2011 16:10	0.039
31560	0.056	0.06	0.069	0.104	4:11:36 PM	9/21/2011 16:11	0.114
31620	0.053	0.057	0.065	0.097	4:12:36 PM	9/21/2011 16:12	0.106
31680	0.097	0.103	0.123	0.191	4:13:36 PM	9/21/2011 16:13	0.211
31740	0.087	0.093	0.109	0.175	4:14:36 PM	9/21/2011 16:14	0.193
31800	0.062	0.067	0.077	0.114	4:15:36 PM	9/21/2011 16:15	0.124
31860	0.043	0.045	0.05	0.068	4:16:36 PM	9/21/2011 16:16	0.072
31920	0.033	0.035	0.038	0.046	4:17:36 PM	9/21/2011 16:17	0.049
31980	0.032	0.033	0.036	0.044	4:18:36 PM	9/21/2011 16:18	0.045

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_004
Test Start Time	7:22:10 AM
Test Start Date	9/22/2011
Test Length [D:H:M]	0:00:10
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.067
PM1 Minimum [mg/m3]	0.05
PM1 Maximum [mg/m3]	0.114
PM1 TWA [mg/m3]	0
PM2.5 Average [mg/m3]	0.068
PM2.5 Minimum [mg/m3]	0.051
PM2.5 Maximum [mg/m3]	0.115
PM2.5 TWA [mg/m3]	0
PM4 Average [mg/m3]	0.069
PM4 Minimum [mg/m3]	0.052
PM4 Maximum [mg/m3]	0.117
PM4 TWA [mg/m3]	0
PM10 Average [mg/m3]	0.072
PM10 Minimum [mg/m3]	0.052
PM10 Maximum [mg/m3]	0.123
PM10 TWA [mg/m3]	0
TOTAL Average [mg/m3]	0.072
TOTAL Minimum [mg/m3]	0.052
TOTAL Maximum [mg/m3]	0.123
TOTAL TWA [mg/m3]	0
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	10



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:22:10 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.073	0.075	0.077	0.085	7:23:10 AM	9/22/2011 7:23	0.089		
120	0.114	0.115	0.117	0.123	7:24:10 AM	9/22/2011 7:24	0.123		
180	0.082	0.083	0.085	0.089	7:25:10 AM	9/22/2011 7:25	0.089		
240	0.064	0.065	0.066	0.068	7:26:10 AM	9/22/2011 7:26	0.068		
300	0.061	0.063	0.063	0.065	7:27:10 AM	9/22/2011 7:27	0.065		
360	0.058	0.059	0.06	0.061	7:28:10 AM	9/22/2011 7:28	0.061		
420	0.058	0.059	0.06	0.062	7:29:10 AM	9/22/2011 7:29	0.062		
480	0.055	0.056	0.056	0.057	7:30:10 AM	9/22/2011 7:30	0.058		
540	0.052	0.053	0.053	0.054	7:31:10 AM	9/22/2011 7:31	0.054		
600	0.05	0.051	0.052	0.052	7:32:10 AM	9/22/2011 7:32	0.052		

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_005
Test Start Time	8:33:12 AM
Test Start Date	9/22/2011
Test Length [D:H:M]	0:08:38
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.072
PM1 Minimum [mg/m3]	0.014
PM1 Maximum [mg/m3]	0.94
PM1 TWA [mg/m3]	0.074
PM2.5 Average [mg/m3]	0.076
PM2.5 Minimum [mg/m3]	0.014
PM2.5 Maximum [mg/m3]	0.997
PM2.5 TWA [mg/m3]	0.078
PM4 Average [mg/m3]	0.082
PM4 Minimum [mg/m3]	0.015
PM4 Maximum [mg/m3]	1.16
PM4 TWA [mg/m3]	0.085
PM10 Average [mg/m3]	0.103
PM10 Minimum [mg/m3]	0.015
PM10 Maximum [mg/m3]	1.73
PM10 TWA [mg/m3]	0.107
TOTAL Average [mg/m3]	0.109
TOTAL Minimum [mg/m3]	0.016
TOTAL Maximum [mg/m3]	1.85
TOTAL TWA [mg/m3]	0.113
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	518

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	8:33:12 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.127	0.13	0.133	0.146	8:34:12 AM	9/22/2011 8:34	0.152		

120	0.097	0.1	0.102	0.109	8:35:12 AM	9/22/2011 8:35	0.111
180	0.084	0.087	0.089	0.094	8:36:12 AM	9/22/2011 8:36	0.096
240	0.094	0.098	0.102	0.116	8:37:12 AM	9/22/2011 8:37	0.118
300	0.077	0.08	0.083	0.092	8:38:12 AM	9/22/2011 8:38	0.094
360	0.083	0.085	0.089	0.104	8:39:12 AM	9/22/2011 8:39	0.112
420	0.071	0.074	0.076	0.082	8:40:12 AM	9/22/2011 8:40	0.085
480	0.078	0.081	0.083	0.091	8:41:12 AM	9/22/2011 8:41	0.093
540	0.077	0.08	0.083	0.088	8:42:12 AM	9/22/2011 8:42	0.091
600	0.077	0.08	0.083	0.09	8:43:12 AM	9/22/2011 8:43	0.09
660	0.053	0.054	0.055	0.058	8:44:12 AM	9/22/2011 8:44	0.06
720	0.042	0.043	0.043	0.044	8:45:12 AM	9/22/2011 8:45	0.044
780	0.044	0.045	0.046	0.047	8:46:12 AM	9/22/2011 8:46	0.047
840	0.045	0.046	0.047	0.05	8:47:12 AM	9/22/2011 8:47	0.05
900	0.046	0.047	0.048	0.051	8:48:12 AM	9/22/2011 8:48	0.051
960	0.048	0.049	0.05	0.053	8:49:12 AM	9/22/2011 8:49	0.054
1020	0.051	0.052	0.054	0.057	8:50:12 AM	9/22/2011 8:50	0.058
1080	0.074	0.077	0.08	0.089	8:51:12 AM	9/22/2011 8:51	0.09
1140	0.071	0.074	0.076	0.086	8:52:12 AM	9/22/2011 8:52	0.088
1200	0.052	0.053	0.054	0.058	8:53:12 AM	9/22/2011 8:53	0.059
1260	0.053	0.054	0.055	0.057	8:54:12 AM	9/22/2011 8:54	0.058
1320	0.061	0.062	0.064	0.066	8:55:12 AM	9/22/2011 8:55	0.067
1380	0.062	0.064	0.065	0.069	8:56:12 AM	9/22/2011 8:56	0.07
1440	0.061	0.063	0.065	0.069	8:57:12 AM	9/22/2011 8:57	0.07
1500	0.053	0.055	0.056	0.059	8:58:12 AM	9/22/2011 8:58	0.062
1560	0.049	0.05	0.051	0.054	8:59:12 AM	9/22/2011 8:59	0.055
1620	0.053	0.054	0.056	0.06	9:00:12 AM	9/22/2011 9:00	0.061
1680	0.058	0.059	0.061	0.066	9:01:12 AM	9/22/2011 9:01	0.067
1740	0.072	0.075	0.079	0.092	9:02:12 AM	9/22/2011 9:02	0.097
1800	0.074	0.076	0.081	0.099	9:03:12 AM	9/22/2011 9:03	0.1
1860	0.089	0.093	0.101	0.133	9:04:12 AM	9/22/2011 9:04	0.14
1920	0.093	0.098	0.108	0.145	9:05:12 AM	9/22/2011 9:05	0.151
1980	0.103	0.108	0.119	0.16	9:06:12 AM	9/22/2011 9:06	0.169
2040	0.106	0.111	0.123	0.159	9:07:12 AM	9/22/2011 9:07	0.167
2100	0.067	0.07	0.076	0.094	9:08:12 AM	9/22/2011 9:08	0.098
2160	0.051	0.053	0.055	0.064	9:09:12 AM	9/22/2011 9:09	0.065
2220	0.05	0.052	0.054	0.062	9:10:12 AM	9/22/2011 9:10	0.064
2280	0.04	0.041	0.042	0.045	9:11:12 AM	9/22/2011 9:11	0.046
2340	0.039	0.039	0.04	0.043	9:12:12 AM	9/22/2011 9:12	0.044
2400	0.034	0.034	0.035	0.036	9:13:12 AM	9/22/2011 9:13	0.036
2460	0.041	0.041	0.042	0.045	9:14:12 AM	9/22/2011 9:14	0.046
2520	0.036	0.036	0.037	0.038	9:15:12 AM	9/22/2011 9:15	0.038
2580	0.069	0.071	0.074	0.081	9:16:12 AM	9/22/2011 9:16	0.084
2640	0.075	0.079	0.082	0.091	9:17:12 AM	9/22/2011 9:17	0.093
2700	0.061	0.064	0.066	0.073	9:18:12 AM	9/22/2011 9:18	0.074
2760	0.049	0.05	0.051	0.057	9:19:12 AM	9/22/2011 9:19	0.059
2820	0.059	0.062	0.065	0.077	9:20:12 AM	9/22/2011 9:20	0.079
2880	0.078	0.082	0.089	0.112	9:21:12 AM	9/22/2011 9:21	0.117
2940	0.079	0.083	0.09	0.109	9:22:12 AM	9/22/2011 9:22	0.115
3000	0.063	0.066	0.07	0.086	9:23:12 AM	9/22/2011 9:23	0.091
3060	0.051	0.052	0.055	0.064	9:24:12 AM	9/22/2011 9:24	0.067
3120	0.044	0.045	0.047	0.054	9:25:12 AM	9/22/2011 9:25	0.055
3180	0.057	0.058	0.06	0.068	9:26:12 AM	9/22/2011 9:26	0.07
3240	0.049	0.051	0.053	0.062	9:27:12 AM	9/22/2011 9:27	0.062
3300	0.052	0.053	0.056	0.062	9:28:12 AM	9/22/2011 9:28	0.064
3360	0.053	0.054	0.056	0.062	9:29:12 AM	9/22/2011 9:29	0.062
3420	0.037	0.038	0.039	0.04	9:30:12 AM	9/22/2011 9:30	0.04
3480	0.076	0.08	0.085	0.104	9:31:12 AM	9/22/2011 9:31	0.11
3540	0.071	0.075	0.081	0.097	9:32:12 AM	9/22/2011 9:32	0.1
3600	0.07	0.074	0.079	0.094	9:33:12 AM	9/22/2011 9:33	0.101
3660	0.054	0.057	0.061	0.071	9:34:12 AM	9/22/2011 9:34	0.074
3720	0.046	0.048	0.051	0.058	9:35:12 AM	9/22/2011 9:35	0.061
3780	0.048	0.051	0.054	0.06	9:36:12 AM	9/22/2011 9:36	0.062
3840	0.038	0.04	0.042	0.045	9:37:12 AM	9/22/2011 9:37	0.047
3900	0.037	0.038	0.04	0.043	9:38:12 AM	9/22/2011 9:38	0.044
3960	0.034	0.035	0.036	0.039	9:39:12 AM	9/22/2011 9:39	0.039
4020	0.046	0.048	0.05	0.055	9:40:12 AM	9/22/2011 9:40	0.055
4080	0.069	0.074	0.08	0.097	9:41:12 AM	9/22/2011 9:41	0.101
4140	0.074	0.078	0.085	0.109	9:42:12 AM	9/22/2011 9:42	0.117
4200	0.061	0.064	0.069	0.087	9:43:12 AM	9/22/2011 9:43	0.091
4260	0.056	0.058	0.064	0.078	9:44:12 AM	9/22/2011 9:44	0.081
4320	0.069	0.073	0.081	0.109	9:45:12 AM	9/22/2011 9:45	0.118
4380	0.062	0.066	0.074	0.096	9:46:12 AM	9/22/2011 9:46	0.101
4440	0.083	0.088	0.101	0.142	9:47:12 AM	9/22/2011 9:47	0.154
4500	0.098	0.105	0.12	0.169	9:48:12 AM	9/22/2011 9:48	0.179
4560	0.081	0.086	0.095	0.12	9:49:12 AM	9/22/2011 9:49	0.128
4620	0.061	0.065	0.07	0.084	9:50:12 AM	9/22/2011 9:50	0.088
4680	0.05	0.053	0.056	0.066	9:51:12 AM	9/22/2011 9:51	0.07
4740	0.036	0.037	0.039	0.042	9:52:12 AM	9/22/2011 9:52	0.042
4800	0.041	0.043	0.045	0.052	9:53:12 AM	9/22/2011 9:53	0.054
4860	0.047	0.05	0.052	0.059	9:54:12 AM	9/22/2011 9:54	0.061
4920	0.074	0.078	0.082	0.096	9:55:12 AM	9/22/2011 9:55	0.1
4980	0.084	0.09	0.096	0.115	9:56:12 AM	9/22/2011 9:56	0.121
5040	0.061	0.064	0.068	0.076	9:57:12 AM	9/22/2011 9:57	0.078
5100	0.054	0.057	0.06	0.066	9:58:12 AM	9/22/2011 9:58	0.07
5160	0.063	0.067	0.07	0.079	9:59:12 AM	9/22/2011 9:59	0.081
5220	0.072	0.076	0.08	0.093	10:00:12 AM	9/22/2011 10:00	0.099
5280	0.044	0.046	0.048	0.052	10:01:12 AM	9/22/2011 10:01	0.054

5340	0.053	0.055	0.058	0.068	10:02:12 AM	9/22/2011 10:02	0.07
5400	0.086	0.09	0.098	0.122	10:03:12 AM	9/22/2011 10:03	0.133
5460	0.095	0.1	0.108	0.134	10:04:12 AM	9/22/2011 10:04	0.142
5520	0.08	0.085	0.092	0.112	10:05:12 AM	9/22/2011 10:05	0.116
5580	0.077	0.081	0.087	0.103	10:06:12 AM	9/22/2011 10:06	0.108
5640	0.088	0.093	0.1	0.122	10:07:12 AM	9/22/2011 10:07	0.132
5700	0.057	0.06	0.063	0.07	10:08:12 AM	9/22/2011 10:08	0.073
5760	0.063	0.066	0.07	0.079	10:09:12 AM	9/22/2011 10:09	0.082
5820	0.053	0.055	0.058	0.064	10:10:12 AM	9/22/2011 10:10	0.065
5880	0.057	0.059	0.062	0.069	10:11:12 AM	9/22/2011 10:11	0.071
5940	0.048	0.049	0.052	0.056	10:12:12 AM	9/22/2011 10:12	0.058
6000	0.04	0.041	0.043	0.046	10:13:12 AM	9/22/2011 10:13	0.046
6060	0.074	0.078	0.086	0.104	10:14:12 AM	9/22/2011 10:14	0.11
6120	0.116	0.124	0.142	0.186	10:15:12 AM	9/22/2011 10:15	0.196
6180	0.08	0.085	0.094	0.113	10:16:12 AM	9/22/2011 10:16	0.117
6240	0.081	0.085	0.093	0.111	10:17:12 AM	9/22/2011 10:17	0.116
6300	0.072	0.076	0.081	0.093	10:18:12 AM	9/22/2011 10:18	0.097
6360	0.079	0.083	0.088	0.101	10:19:12 AM	9/22/2011 10:19	0.107
6420	0.11	0.116	0.125	0.157	10:20:12 AM	9/22/2011 10:20	0.169
6480	0.106	0.112	0.121	0.149	10:21:12 AM	9/22/2011 10:21	0.161
6540	0.083	0.087	0.093	0.113	10:22:12 AM	9/22/2011 10:22	0.119
6600	0.069	0.072	0.076	0.09	10:23:12 AM	9/22/2011 10:23	0.095
6660	0.057	0.059	0.062	0.07	10:24:12 AM	9/22/2011 10:24	0.072
6720	0.075	0.078	0.083	0.098	10:25:12 AM	9/22/2011 10:25	0.103
6780	0.078	0.082	0.087	0.105	10:26:12 AM	9/22/2011 10:26	0.113
6840	0.077	0.081	0.086	0.104	10:27:12 AM	9/22/2011 10:27	0.111
6900	0.082	0.087	0.092	0.107	10:28:12 AM	9/22/2011 10:28	0.113
6960	0.085	0.09	0.096	0.116	10:29:12 AM	9/22/2011 10:29	0.122
7020	0.096	0.101	0.108	0.133	10:30:12 AM	9/22/2011 10:30	0.141
7080	0.115	0.121	0.132	0.171	10:31:12 AM	9/22/2011 10:31	0.18
7140	0.104	0.11	0.121	0.156	10:32:12 AM	9/22/2011 10:32	0.166
7200	0.1	0.106	0.116	0.148	10:33:12 AM	9/22/2011 10:33	0.161
7260	0.101	0.106	0.116	0.15	10:34:12 AM	9/22/2011 10:34	0.17
7320	0.073	0.077	0.083	0.102	10:35:12 AM	9/22/2011 10:35	0.112
7380	0.058	0.061	0.064	0.077	10:36:12 AM	9/22/2011 10:36	0.079
7440	0.051	0.053	0.056	0.063	10:37:12 AM	9/22/2011 10:37	0.066
7500	0.061	0.064	0.068	0.08	10:38:12 AM	9/22/2011 10:38	0.082
7560	0.054	0.056	0.06	0.071	10:39:12 AM	9/22/2011 10:39	0.076
7620	0.034	0.036	0.037	0.04	10:40:12 AM	9/22/2011 10:40	0.042
7680	0.041	0.043	0.045	0.047	10:41:12 AM	9/22/2011 10:41	0.048
7740	0.055	0.058	0.062	0.072	10:42:12 AM	9/22/2011 10:42	0.076
7800	0.041	0.042	0.045	0.049	10:43:12 AM	9/22/2011 10:43	0.051
7860	0.032	0.034	0.035	0.039	10:44:12 AM	9/22/2011 10:44	0.041
7920	0.036	0.038	0.039	0.042	10:45:12 AM	9/22/2011 10:45	0.043
7980	0.033	0.034	0.036	0.038	10:46:12 AM	9/22/2011 10:46	0.039
8040	0.036	0.038	0.04	0.045	10:47:12 AM	9/22/2011 10:47	0.048
8100	0.052	0.055	0.058	0.07	10:48:12 AM	9/22/2011 10:48	0.075
8160	0.06	0.064	0.068	0.079	10:49:12 AM	9/22/2011 10:49	0.085
8220	0.046	0.049	0.052	0.058	10:50:12 AM	9/22/2011 10:50	0.06
8280	0.033	0.034	0.036	0.038	10:51:12 AM	9/22/2011 10:51	0.038
8340	0.033	0.035	0.036	0.037	10:52:12 AM	9/22/2011 10:52	0.037
8400	0.034	0.036	0.037	0.04	10:53:12 AM	9/22/2011 10:53	0.041
8460	0.063	0.067	0.072	0.083	10:54:12 AM	9/22/2011 10:54	0.086
8520	0.055	0.058	0.062	0.073	10:55:12 AM	9/22/2011 10:55	0.076
8580	0.049	0.052	0.055	0.063	10:56:12 AM	9/22/2011 10:56	0.066
8640	0.047	0.049	0.052	0.059	10:57:12 AM	9/22/2011 10:57	0.061
8700	0.066	0.07	0.074	0.085	10:58:12 AM	9/22/2011 10:58	0.088
8760	0.068	0.072	0.077	0.091	10:59:12 AM	9/22/2011 10:59	0.094
8820	0.054	0.057	0.062	0.074	11:00:12 AM	9/22/2011 11:00	0.076
8880	0.053	0.055	0.059	0.067	11:01:12 AM	9/22/2011 11:01	0.072
8940	0.046	0.048	0.051	0.058	11:02:12 AM	9/22/2011 11:02	0.059
9000	0.048	0.051	0.053	0.061	11:03:12 AM	9/22/2011 11:03	0.062
9060	0.042	0.044	0.046	0.05	11:04:12 AM	9/22/2011 11:04	0.053
9120	0.032	0.033	0.034	0.038	11:05:12 AM	9/22/2011 11:05	0.039
9180	0.062	0.065	0.07	0.086	11:06:12 AM	9/22/2011 11:06	0.093
9240	0.072	0.076	0.081	0.097	11:07:12 AM	9/22/2011 11:07	0.102
9300	0.08	0.084	0.089	0.102	11:08:12 AM	9/22/2011 11:08	0.106
9360	0.079	0.083	0.087	0.097	11:09:12 AM	9/22/2011 11:09	0.1
9420	0.071	0.075	0.079	0.087	11:10:12 AM	9/22/2011 11:10	0.091
9480	0.053	0.056	0.059	0.064	11:11:12 AM	9/22/2011 11:11	0.065
9540	0.053	0.056	0.059	0.062	11:12:12 AM	9/22/2011 11:12	0.063
9600	0.042	0.045	0.047	0.049	11:13:12 AM	9/22/2011 11:13	0.05
9660	0.038	0.041	0.042	0.043	11:14:12 AM	9/22/2011 11:14	0.044
9720	0.061	0.065	0.067	0.068	11:15:12 AM	9/22/2011 11:15	0.07
9780	0.064	0.067	0.069	0.074	11:16:12 AM	9/22/2011 11:16	0.078
9840	0.036	0.038	0.04	0.043	11:17:12 AM	9/22/2011 11:17	0.044
9900	0.06	0.064	0.068	0.079	11:18:12 AM	9/22/2011 11:18	0.082
9960	0.076	0.081	0.087	0.104	11:19:12 AM	9/22/2011 11:19	0.11
10020	0.081	0.085	0.09	0.099	11:20:12 AM	9/22/2011 11:20	0.104
10080	0.086	0.09	0.095	0.104	11:21:12 AM	9/22/2011 11:21	0.109
10140	0.093	0.098	0.103	0.114	11:22:12 AM	9/22/2011 11:22	0.119
10200	0.154	0.165	0.183	0.22	11:23:12 AM	9/22/2011 11:23	0.228
10260	0.278	0.303	0.348	0.436	11:24:12 AM	9/22/2011 11:24	0.45
10320	0.173	0.187	0.213	0.262	11:25:12 AM	9/22/2011 11:25	0.272
10380	0.125	0.133	0.146	0.174	11:26:12 AM	9/22/2011 11:26	0.181
10440	0.115	0.121	0.13	0.151	11:27:12 AM	9/22/2011 11:27	0.157
10500	0.046	0.048	0.05	0.054	11:28:12 AM	9/22/2011 11:28	0.055

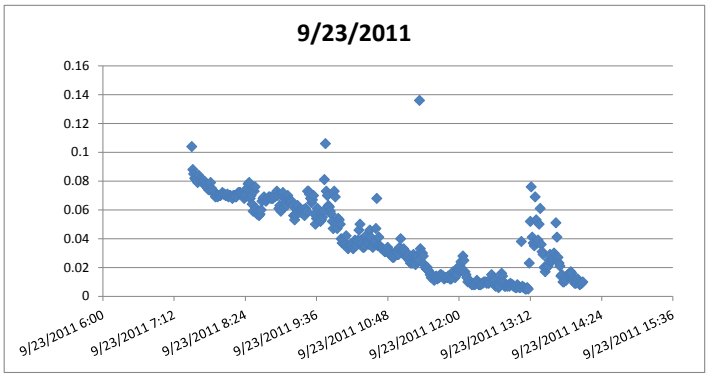
10560	0.045	0.047	0.049	0.053	11:29:12 AM	9/22/2011 11:29	0.054
10620	0.06	0.064	0.069	0.079	11:30:12 AM	9/22/2011 11:30	0.081
10680	0.056	0.059	0.064	0.073	11:31:12 AM	9/22/2011 11:31	0.074
10740	0.063	0.067	0.072	0.086	11:32:12 AM	9/22/2011 11:32	0.091
10800	0.065	0.068	0.075	0.097	11:33:12 AM	9/22/2011 11:33	0.102
10860	0.054	0.057	0.061	0.072	11:34:12 AM	9/22/2011 11:34	0.076
10920	0.04	0.041	0.043	0.048	11:35:12 AM	9/22/2011 11:35	0.049
10980	0.064	0.067	0.071	0.08	11:36:12 AM	9/22/2011 11:36	0.082
11040	0.053	0.055	0.058	0.064	11:37:12 AM	9/22/2011 11:37	0.067
11100	0.061	0.064	0.068	0.078	11:38:12 AM	9/22/2011 11:38	0.08
11160	0.108	0.115	0.129	0.163	11:39:12 AM	9/22/2011 11:39	0.173
11220	0.086	0.091	0.099	0.117	11:40:12 AM	9/22/2011 11:40	0.12
11280	0.099	0.103	0.108	0.116	11:41:12 AM	9/22/2011 11:41	0.118
11340	0.087	0.091	0.095	0.102	11:42:12 AM	9/22/2011 11:42	0.103
11400	0.094	0.098	0.102	0.111	11:43:12 AM	9/22/2011 11:43	0.114
11460	0.092	0.097	0.103	0.122	11:44:12 AM	9/22/2011 11:44	0.126
11520	0.08	0.084	0.091	0.113	11:45:12 AM	9/22/2011 11:45	0.121
11580	0.081	0.085	0.092	0.114	11:46:12 AM	9/22/2011 11:46	0.122
11640	0.086	0.091	0.099	0.121	11:47:12 AM	9/22/2011 11:47	0.129
11700	0.078	0.082	0.089	0.108	11:48:12 AM	9/22/2011 11:48	0.116
11760	0.069	0.072	0.078	0.092	11:49:12 AM	9/22/2011 11:49	0.098
11820	0.097	0.102	0.109	0.132	11:50:12 AM	9/22/2011 11:50	0.14
11880	0.085	0.09	0.097	0.118	11:51:12 AM	9/22/2011 11:51	0.123
11940	0.076	0.079	0.085	0.101	11:52:12 AM	9/22/2011 11:52	0.107
12000	0.09	0.094	0.101	0.118	11:53:12 AM	9/22/2011 11:53	0.123
12060	0.143	0.148	0.156	0.177	11:54:12 AM	9/22/2011 11:54	0.181
12120	0.103	0.107	0.112	0.129	11:55:12 AM	9/22/2011 11:55	0.135
12180	0.096	0.1	0.105	0.118	11:56:12 AM	9/22/2011 11:56	0.121
12240	0.088	0.092	0.096	0.106	11:57:12 AM	9/22/2011 11:57	0.109
12300	0.102	0.107	0.115	0.138	11:58:12 AM	9/22/2011 11:58	0.146
12360	0.102	0.108	0.116	0.14	11:59:12 AM	9/22/2011 11:59	0.15
12420	0.134	0.141	0.155	0.199	12:00:12 PM	9/22/2011 12:00	0.216
12480	0.079	0.084	0.092	0.119	12:01:12 PM	9/22/2011 12:01	0.127
12540	0.044	0.046	0.049	0.057	12:02:12 PM	9/22/2011 12:02	0.059
12600	0.04	0.042	0.044	0.055	12:03:12 PM	9/22/2011 12:03	0.062
12660	0.032	0.033	0.036	0.038	12:04:12 PM	9/22/2011 12:04	0.039
12720	0.049	0.052	0.056	0.064	12:05:12 PM	9/22/2011 12:05	0.066
12780	0.043	0.045	0.048	0.054	12:06:12 PM	9/22/2011 12:06	0.056
12840	0.067	0.071	0.076	0.086	12:07:12 PM	9/22/2011 12:07	0.089
12900	0.075	0.08	0.086	0.101	12:08:12 PM	9/22/2011 12:08	0.106
12960	0.119	0.126	0.14	0.187	12:09:12 PM	9/22/2011 12:09	0.203
13020	0.077	0.08	0.088	0.114	12:10:12 PM	9/22/2011 12:10	0.124
13080	0.045	0.047	0.05	0.058	12:11:12 PM	9/22/2011 12:11	0.061
13140	0.043	0.045	0.048	0.055	12:12:12 PM	9/22/2011 12:12	0.057
13200	0.042	0.044	0.047	0.056	12:13:12 PM	9/22/2011 12:13	0.058
13260	0.055	0.058	0.063	0.079	12:14:12 PM	9/22/2011 12:14	0.082
13320	0.068	0.073	0.08	0.106	12:15:12 PM	9/22/2011 12:15	0.115
13380	0.073	0.078	0.086	0.115	12:16:12 PM	9/22/2011 12:16	0.125
13440	0.077	0.082	0.091	0.119	12:17:12 PM	9/22/2011 12:17	0.131
13500	0.043	0.046	0.05	0.059	12:18:12 PM	9/22/2011 12:18	0.062
13560	0.032	0.034	0.036	0.038	12:19:12 PM	9/22/2011 12:19	0.038
13620	0.042	0.045	0.048	0.054	12:20:12 PM	9/22/2011 12:20	0.054
13680	0.05	0.053	0.058	0.074	12:21:12 PM	9/22/2011 12:21	0.08
13740	0.034	0.036	0.039	0.045	12:22:12 PM	9/22/2011 12:22	0.047
13800	0.042	0.045	0.049	0.056	12:23:12 PM	9/22/2011 12:23	0.06
13860	0.056	0.059	0.064	0.086	12:24:12 PM	9/22/2011 12:24	0.093
13920	0.055	0.058	0.064	0.088	12:25:12 PM	9/22/2011 12:25	0.099
13980	0.045	0.048	0.052	0.071	12:26:12 PM	9/22/2011 12:26	0.076
14040	0.085	0.09	0.102	0.154	12:27:12 PM	9/22/2011 12:27	0.178
14100	0.067	0.072	0.08	0.11	12:28:12 PM	9/22/2011 12:28	0.12
14160	0.087	0.093	0.106	0.151	12:29:12 PM	9/22/2011 12:29	0.163
14220	0.059	0.063	0.069	0.096	12:30:12 PM	9/22/2011 12:30	0.105
14280	0.064	0.068	0.075	0.098	12:31:12 PM	9/22/2011 12:31	0.105
14340	0.053	0.057	0.061	0.078	12:32:12 PM	9/22/2011 12:32	0.085
14400	0.05	0.053	0.057	0.063	12:33:12 PM	9/22/2011 12:33	0.066
14460	0.049	0.052	0.056	0.063	12:34:12 PM	9/22/2011 12:34	0.063
14520	0.037	0.039	0.042	0.049	12:35:12 PM	9/22/2011 12:35	0.053
14580	0.033	0.034	0.036	0.042	12:36:12 PM	9/22/2011 12:36	0.046
14640	0.05	0.054	0.058	0.068	12:37:12 PM	9/22/2011 12:37	0.072
14700	0.047	0.05	0.054	0.067	12:38:12 PM	9/22/2011 12:38	0.073
14760	0.037	0.039	0.042	0.049	12:39:12 PM	9/22/2011 12:39	0.05
14820	0.049	0.053	0.057	0.068	12:40:12 PM	9/22/2011 12:40	0.071
14880	0.06	0.064	0.07	0.084	12:41:12 PM	9/22/2011 12:41	0.086
14940	0.059	0.064	0.07	0.084	12:42:12 PM	9/22/2011 12:42	0.087
15000	0.044	0.047	0.05	0.056	12:43:12 PM	9/22/2011 12:43	0.058
15060	0.062	0.066	0.072	0.084	12:44:12 PM	9/22/2011 12:44	0.088
15120	0.039	0.042	0.044	0.051	12:45:12 PM	9/22/2011 12:45	0.054
15180	0.042	0.044	0.048	0.057	12:46:12 PM	9/22/2011 12:46	0.059
15240	0.062	0.066	0.072	0.089	12:47:12 PM	9/22/2011 12:47	0.096
15300	0.076	0.08	0.088	0.112	12:48:12 PM	9/22/2011 12:48	0.117
15360	0.103	0.108	0.119	0.152	12:49:12 PM	9/22/2011 12:49	0.166
15420	0.112	0.117	0.126	0.154	12:50:12 PM	9/22/2011 12:50	0.167
15480	0.103	0.107	0.113	0.128	12:51:12 PM	9/22/2011 12:51	0.134
15540	0.08	0.083	0.089	0.108	12:52:12 PM	9/22/2011 12:52	0.118
15600	0.076	0.079	0.083	0.096	12:53:12 PM	9/22/2011 12:53	0.101
15660	0.066	0.07	0.075	0.085	12:54:12 PM	9/22/2011 12:54	0.087
15720	0.063	0.067	0.072	0.085	12:55:12 PM	9/22/2011 12:55	0.089

15780	0.067	0.071	0.075	0.087	12:56:12 PM	9/22/2011 12:56	0.09
15840	0.06	0.064	0.067	0.075	12:57:12 PM	9/22/2011 12:57	0.077
15900	0.05	0.053	0.056	0.061	12:58:12 PM	9/22/2011 12:58	0.063
15960	0.081	0.085	0.092	0.114	12:59:12 PM	9/22/2011 12:59	0.125
16020	0.088	0.093	0.1	0.129	1:00:12 PM	9/22/2011 13:00	0.137
16080	0.055	0.057	0.061	0.076	1:01:12 PM	9/22/2011 13:01	0.081
16140	0.041	0.043	0.046	0.056	1:02:12 PM	9/22/2011 13:02	0.062
16200	0.025	0.025	0.027	0.03	1:03:12 PM	9/22/2011 13:03	0.03
16260	0.059	0.063	0.066	0.076	1:04:12 PM	9/22/2011 13:04	0.079
16320	0.072	0.076	0.082	0.095	1:05:12 PM	9/22/2011 13:05	0.099
16380	0.075	0.079	0.085	0.1	1:06:12 PM	9/22/2011 13:06	0.105
16440	0.057	0.06	0.064	0.073	1:07:12 PM	9/22/2011 13:07	0.075
16500	0.06	0.063	0.067	0.076	1:08:12 PM	9/22/2011 13:08	0.078
16560	0.053	0.056	0.06	0.07	1:09:12 PM	9/22/2011 13:09	0.074
16620	0.062	0.066	0.07	0.083	1:10:12 PM	9/22/2011 13:10	0.085
16680	0.035	0.036	0.038	0.043	1:11:12 PM	9/22/2011 13:11	0.044
16740	0.042	0.044	0.049	0.059	1:12:12 PM	9/22/2011 13:12	0.061
16800	0.306	0.324	0.374	0.551	1:13:12 PM	9/22/2011 13:13	0.59
16860	0.795	0.837	0.97	1.5	1:14:12 PM	9/22/2011 13:14	1.64
16920	0.317	0.336	0.389	0.589	1:15:12 PM	9/22/2011 13:15	0.633
16980	0.139	0.147	0.169	0.244	1:16:12 PM	9/22/2011 13:16	0.267
17040	0.206	0.218	0.246	0.362	1:17:12 PM	9/22/2011 13:17	0.391
17100	0.254	0.267	0.308	0.47	1:18:12 PM	9/22/2011 13:18	0.511
17160	0.383	0.406	0.471	0.703	1:19:12 PM	9/22/2011 13:19	0.749
17220	0.499	0.529	0.616	0.9	1:20:12 PM	9/22/2011 13:20	0.952
17280	0.94	0.997	1.16	1.73	1:21:12 PM	9/22/2011 13:21	1.85
17340	0.525	0.558	0.655	0.946	1:22:12 PM	9/22/2011 13:22	0.998
17400	0.255	0.271	0.313	0.448	1:23:12 PM	9/22/2011 13:23	0.484
17460	0.106	0.112	0.129	0.184	1:24:12 PM	9/22/2011 13:24	0.192
17520	0.096	0.101	0.115	0.16	1:25:12 PM	9/22/2011 13:25	0.169
17580	0.087	0.092	0.103	0.139	1:26:12 PM	9/22/2011 13:26	0.149
17640	0.112	0.119	0.134	0.181	1:27:12 PM	9/22/2011 13:27	0.193
17700	0.092	0.097	0.108	0.139	1:28:12 PM	9/22/2011 13:28	0.146
17760	0.057	0.059	0.065	0.082	1:29:12 PM	9/22/2011 13:29	0.086
17820	0.399	0.42	0.483	0.748	1:30:12 PM	9/22/2011 13:30	0.811
17880	0.277	0.293	0.337	0.501	1:31:12 PM	9/22/2011 13:31	0.543
17940	0.165	0.176	0.204	0.3	1:32:12 PM	9/22/2011 13:32	0.324
18000	0.117	0.124	0.139	0.191	1:33:12 PM	9/22/2011 13:33	0.201
18060	0.081	0.086	0.095	0.118	1:34:12 PM	9/22/2011 13:34	0.124
18120	0.119	0.126	0.141	0.19	1:35:12 PM	9/22/2011 13:35	0.204
18180	0.117	0.123	0.137	0.185	1:36:12 PM	9/22/2011 13:36	0.204
18240	0.101	0.106	0.118	0.158	1:37:12 PM	9/22/2011 13:37	0.17
18300	0.103	0.108	0.119	0.157	1:38:12 PM	9/22/2011 13:38	0.167
18360	0.12	0.127	0.139	0.18	1:39:12 PM	9/22/2011 13:39	0.187
18420	0.146	0.154	0.172	0.237	1:40:12 PM	9/22/2011 13:40	0.265
18480	0.099	0.104	0.116	0.155	1:41:12 PM	9/22/2011 13:41	0.167
18540	0.063	0.066	0.071	0.089	1:42:12 PM	9/22/2011 13:42	0.094
18600	0.048	0.051	0.054	0.063	1:43:12 PM	9/22/2011 13:43	0.065
18660	0.097	0.103	0.113	0.148	1:44:12 PM	9/22/2011 13:44	0.16
18720	0.263	0.278	0.317	0.446	1:45:12 PM	9/22/2011 13:45	0.49
18780	0.182	0.193	0.22	0.309	1:46:12 PM	9/22/2011 13:46	0.333
18840	0.142	0.151	0.172	0.241	1:47:12 PM	9/22/2011 13:47	0.255
18900	0.12	0.126	0.142	0.193	1:48:12 PM	9/22/2011 13:48	0.21
18960	0.107	0.115	0.128	0.165	1:49:12 PM	9/22/2011 13:49	0.178
19020	0.083	0.089	0.095	0.106	1:50:12 PM	9/22/2011 13:50	0.11
19080	0.076	0.081	0.087	0.101	1:51:12 PM	9/22/2011 13:51	0.104
19140	0.122	0.129	0.143	0.189	1:52:12 PM	9/22/2011 13:52	0.203
19200	0.138	0.145	0.163	0.222	1:53:12 PM	9/22/2011 13:53	0.24
19260	0.174	0.185	0.209	0.29	1:54:12 PM	9/22/2011 13:54	0.308
19320	0.113	0.119	0.134	0.184	1:55:12 PM	9/22/2011 13:55	0.198
19380	0.095	0.101	0.112	0.145	1:56:12 PM	9/22/2011 13:56	0.153
19440	0.1	0.106	0.117	0.151	1:57:12 PM	9/22/2011 13:57	0.161
19500	0.112	0.119	0.133	0.175	1:58:12 PM	9/22/2011 13:58	0.191
19560	0.069	0.072	0.081	0.101	1:59:12 PM	9/22/2011 13:59	0.107
19620	0.052	0.055	0.06	0.07	2:00:12 PM	9/22/2011 14:00	0.075
19680	0.039	0.041	0.044	0.051	2:01:12 PM	9/22/2011 14:01	0.053
19740	0.065	0.07	0.076	0.088	2:02:12 PM	9/22/2011 14:02	0.094
19800	0.06	0.064	0.068	0.079	2:03:12 PM	9/22/2011 14:03	0.081
19860	0.059	0.062	0.067	0.08	2:04:12 PM	9/22/2011 14:04	0.082
19920	0.048	0.051	0.054	0.063	2:05:12 PM	9/22/2011 14:05	0.065
19980	0.042	0.044	0.047	0.053	2:06:12 PM	9/22/2011 14:06	0.055
20040	0.044	0.046	0.05	0.058	2:07:12 PM	9/22/2011 14:07	0.061
20100	0.038	0.039	0.042	0.05	2:08:12 PM	9/22/2011 14:08	0.052
20160	0.028	0.029	0.031	0.036	2:09:12 PM	9/22/2011 14:09	0.037
20220	0.076	0.079	0.087	0.114	2:10:12 PM	9/22/2011 14:10	0.126
20280	0.059	0.063	0.07	0.092	2:11:12 PM	9/22/2011 14:11	0.097
20340	0.081	0.086	0.098	0.135	2:12:12 PM	9/22/2011 14:12	0.141
20400	0.083	0.088	0.1	0.131	2:13:12 PM	9/22/2011 14:13	0.139
20460	0.072	0.076	0.085	0.108	2:14:12 PM	9/22/2011 14:14	0.114
20520	0.082	0.087	0.097	0.122	2:15:12 PM	9/22/2011 14:15	0.126
20580	0.104	0.111	0.123	0.152	2:16:12 PM	9/22/2011 14:16	0.16
20640	0.087	0.093	0.103	0.127	2:17:12 PM	9/22/2011 14:17	0.134
20700	0.064	0.067	0.074	0.094	2:18:12 PM	9/22/2011 14:18	0.099
20760	0.04	0.042	0.045	0.054	2:19:12 PM	9/22/2011 14:19	0.057
20820	0.044	0.046	0.05	0.06	2:20:12 PM	9/22/2011 14:20	0.062
20880	0.038	0.04	0.043	0.052	2:21:12 PM	9/22/2011 14:21	0.053
20940	0.045	0.048	0.052	0.061	2:22:12 PM	9/22/2011 14:22	0.065

21000	0.043	0.045	0.048	0.056	2:23:12 PM	9/22/2011 14:23	0.061
21060	0.025	0.025	0.027	0.031	2:24:12 PM	9/22/2011 14:24	0.032
21120	0.024	0.024	0.025	0.028	2:25:12 PM	9/22/2011 14:25	0.028
21180	0.069	0.07	0.07	0.072	2:26:12 PM	9/22/2011 14:26	0.073
21240	0.096	0.097	0.1	0.107	2:27:12 PM	9/22/2011 14:27	0.109
21300	0.095	0.096	0.098	0.103	2:28:12 PM	9/22/2011 14:28	0.105
21360	0.034	0.034	0.036	0.039	2:29:12 PM	9/22/2011 14:29	0.04
21420	0.042	0.043	0.046	0.055	2:30:12 PM	9/22/2011 14:30	0.058
21480	0.035	0.036	0.039	0.046	2:31:12 PM	9/22/2011 14:31	0.047
21540	0.021	0.022	0.022	0.026	2:32:12 PM	9/22/2011 14:32	0.027
21600	0.019	0.019	0.02	0.021	2:33:12 PM	9/22/2011 14:33	0.021
21660	0.021	0.022	0.023	0.024	2:34:12 PM	9/22/2011 14:34	0.025
21720	0.026	0.027	0.029	0.032	2:35:12 PM	9/22/2011 14:35	0.033
21780	0.024	0.024	0.025	0.028	2:36:12 PM	9/22/2011 14:36	0.029
21840	0.023	0.024	0.024	0.026	2:37:12 PM	9/22/2011 14:37	0.027
21900	0.034	0.035	0.038	0.045	2:38:12 PM	9/22/2011 14:38	0.047
21960	0.041	0.043	0.047	0.056	2:39:12 PM	9/22/2011 14:39	0.06
22020	0.033	0.034	0.036	0.04	2:40:12 PM	9/22/2011 14:40	0.041
22080	0.034	0.035	0.037	0.041	2:41:12 PM	9/22/2011 14:41	0.042
22140	0.031	0.032	0.034	0.038	2:42:12 PM	9/22/2011 14:42	0.038
22200	0.045	0.047	0.051	0.062	2:43:12 PM	9/22/2011 14:43	0.066
22260	0.077	0.081	0.09	0.121	2:44:12 PM	9/22/2011 14:44	0.127
22320	0.08	0.085	0.095	0.127	2:45:12 PM	9/22/2011 14:45	0.136
22380	0.054	0.056	0.061	0.076	2:46:12 PM	9/22/2011 14:46	0.08
22440	0.042	0.044	0.047	0.057	2:47:12 PM	9/22/2011 14:47	0.06
22500	0.058	0.061	0.066	0.084	2:48:12 PM	9/22/2011 14:48	0.088
22560	0.064	0.067	0.073	0.089	2:49:12 PM	9/22/2011 14:49	0.093
22620	0.063	0.066	0.072	0.089	2:50:12 PM	9/22/2011 14:50	0.094
22680	0.088	0.093	0.102	0.13	2:51:12 PM	9/22/2011 14:51	0.141
22740	0.085	0.089	0.097	0.122	2:52:12 PM	9/22/2011 14:52	0.13
22800	0.073	0.076	0.083	0.105	2:53:12 PM	9/22/2011 14:53	0.11
22860	0.057	0.06	0.064	0.077	2:54:12 PM	9/22/2011 14:54	0.081
22920	0.054	0.057	0.061	0.074	2:55:12 PM	9/22/2011 14:55	0.079
22980	0.049	0.051	0.054	0.064	2:56:12 PM	9/22/2011 14:56	0.067
23040	0.039	0.04	0.042	0.047	2:57:12 PM	9/22/2011 14:57	0.049
23100	0.032	0.033	0.035	0.036	2:58:12 PM	9/22/2011 14:58	0.037
23160	0.034	0.035	0.037	0.039	2:59:12 PM	9/22/2011 14:59	0.039
23220	0.052	0.055	0.058	0.068	3:00:12 PM	9/22/2011 15:00	0.071
23280	0.043	0.045	0.049	0.059	3:01:12 PM	9/22/2011 15:01	0.062
23340	0.058	0.061	0.066	0.081	3:02:12 PM	9/22/2011 15:02	0.086
23400	0.094	0.099	0.11	0.147	3:03:12 PM	9/22/2011 15:03	0.158
23460	0.076	0.08	0.088	0.115	3:04:12 PM	9/22/2011 15:04	0.123
23520	0.076	0.08	0.088	0.114	3:05:12 PM	9/22/2011 15:05	0.119
23580	0.068	0.071	0.078	0.099	3:06:12 PM	9/22/2011 15:06	0.107
23640	0.051	0.054	0.058	0.07	3:07:12 PM	9/22/2011 15:07	0.072
23700	0.056	0.058	0.064	0.076	3:08:12 PM	9/22/2011 15:08	0.079
23760	0.055	0.059	0.064	0.075	3:09:12 PM	9/22/2011 15:09	0.079
23820	0.046	0.048	0.051	0.059	3:10:12 PM	9/22/2011 15:10	0.06
23880	0.124	0.131	0.146	0.195	3:11:12 PM	9/22/2011 15:11	0.209
23940	0.115	0.121	0.135	0.182	3:12:12 PM	9/22/2011 15:12	0.19
24000	0.091	0.096	0.106	0.134	3:13:12 PM	9/22/2011 15:13	0.142
24060	0.085	0.089	0.098	0.126	3:14:12 PM	9/22/2011 15:14	0.133
24120	0.091	0.095	0.102	0.128	3:15:12 PM	9/22/2011 15:15	0.136
24180	0.057	0.06	0.064	0.076	3:16:12 PM	9/22/2011 15:16	0.078
24240	0.056	0.059	0.063	0.072	3:17:12 PM	9/22/2011 15:17	0.073
24300	0.046	0.048	0.05	0.056	3:18:12 PM	9/22/2011 15:18	0.057
24360	0.044	0.045	0.047	0.051	3:19:12 PM	9/22/2011 15:19	0.053
24420	0.051	0.053	0.056	0.062	3:20:12 PM	9/22/2011 15:20	0.063
24480	0.034	0.035	0.036	0.04	3:21:12 PM	9/22/2011 15:21	0.041
24540	0.037	0.038	0.04	0.042	3:22:12 PM	9/22/2011 15:22	0.043
24600	0.039	0.04	0.042	0.045	3:23:12 PM	9/22/2011 15:23	0.045
24660	0.039	0.04	0.042	0.046	3:24:12 PM	9/22/2011 15:24	0.048
24720	0.037	0.039	0.04	0.044	3:25:12 PM	9/22/2011 15:25	0.045
24780	0.029	0.03	0.031	0.032	3:26:12 PM	9/22/2011 15:26	0.032
24840	0.029	0.03	0.031	0.033	3:27:12 PM	9/22/2011 15:27	0.035
24900	0.045	0.047	0.049	0.055	3:28:12 PM	9/22/2011 15:28	0.057
24960	0.033	0.034	0.035	0.038	3:29:12 PM	9/22/2011 15:29	0.038
25020	0.028	0.028	0.029	0.032	3:30:12 PM	9/22/2011 15:30	0.032
25080	0.024	0.024	0.025	0.027	3:31:12 PM	9/22/2011 15:31	0.028
25140	0.029	0.029	0.031	0.034	3:32:12 PM	9/22/2011 15:32	0.036
25200	0.054	0.057	0.06	0.074	3:33:12 PM	9/22/2011 15:33	0.081
25260	0.055	0.057	0.061	0.072	3:34:12 PM	9/22/2011 15:34	0.074
25320	0.051	0.054	0.057	0.066	3:35:12 PM	9/22/2011 15:35	0.068
25380	0.048	0.051	0.054	0.06	3:36:12 PM	9/22/2011 15:36	0.063
25440	0.039	0.041	0.043	0.047	3:37:12 PM	9/22/2011 15:37	0.048
25500	0.043	0.045	0.047	0.052	3:38:12 PM	9/22/2011 15:38	0.052
25560	0.043	0.045	0.048	0.052	3:39:12 PM	9/22/2011 15:39	0.053
25620	0.039	0.041	0.043	0.048	3:40:12 PM	9/22/2011 15:40	0.05
25680	0.043	0.045	0.048	0.055	3:41:12 PM	9/22/2011 15:41	0.056
25740	0.04	0.042	0.044	0.05	3:42:12 PM	9/22/2011 15:42	0.052
25800	0.041	0.043	0.045	0.051	3:43:12 PM	9/22/2011 15:43	0.052
25860	0.054	0.056	0.06	0.071	3:44:12 PM	9/22/2011 15:44	0.076
25920	0.059	0.062	0.067	0.08	3:45:12 PM	9/22/2011 15:45	0.086
25980	0.075	0.079	0.086	0.106	3:46:12 PM	9/22/2011 15:46	0.11
26040	0.058	0.061	0.066	0.081	3:47:12 PM	9/22/2011 15:47	0.083
26100	0.071	0.075	0.081	0.105	3:48:12 PM	9/22/2011 15:48	0.112
26160	0.085	0.09	0.098	0.13	3:49:12 PM	9/22/2011 15:49	0.139

26220	0.077	0.081	0.087	0.108	3:50:12 PM	9/22/2011 15:50	0.113
26280	0.054	0.057	0.061	0.072	3:51:12 PM	9/22/2011 15:51	0.077
26340	0.051	0.054	0.058	0.067	3:52:12 PM	9/22/2011 15:52	0.07
26400	0.047	0.049	0.052	0.059	3:53:12 PM	9/22/2011 15:53	0.06
26460	0.071	0.074	0.078	0.09	3:54:12 PM	9/22/2011 15:54	0.093
26520	0.059	0.061	0.065	0.076	3:55:12 PM	9/22/2011 15:55	0.079
26580	0.038	0.04	0.042	0.046	3:56:12 PM	9/22/2011 15:56	0.048
26640	0.04	0.041	0.044	0.048	3:57:12 PM	9/22/2011 15:57	0.048
26700	0.043	0.045	0.047	0.052	3:58:12 PM	9/22/2011 15:58	0.053
26760	0.032	0.034	0.035	0.037	3:59:12 PM	9/22/2011 15:59	0.038
26820	0.043	0.045	0.047	0.05	4:00:12 PM	9/22/2011 16:00	0.053
26880	0.056	0.059	0.062	0.071	4:01:12 PM	9/22/2011 16:01	0.074
26940	0.054	0.056	0.06	0.067	4:02:12 PM	9/22/2011 16:02	0.071
27000	0.056	0.058	0.062	0.073	4:03:12 PM	9/22/2011 16:03	0.076
27060	0.061	0.063	0.068	0.081	4:04:12 PM	9/22/2011 16:04	0.087
27120	0.048	0.051	0.054	0.066	4:05:12 PM	9/22/2011 16:05	0.07
27180	0.049	0.051	0.055	0.066	4:06:12 PM	9/22/2011 16:06	0.07
27240	0.067	0.07	0.075	0.09	4:07:12 PM	9/22/2011 16:07	0.099
27300	0.059	0.062	0.066	0.079	4:08:12 PM	9/22/2011 16:08	0.082
27360	0.052	0.055	0.059	0.07	4:09:12 PM	9/22/2011 16:09	0.075
27420	0.047	0.049	0.053	0.064	4:10:12 PM	9/22/2011 16:10	0.065
27480	0.051	0.053	0.057	0.071	4:11:12 PM	9/22/2011 16:11	0.077
27540	0.048	0.05	0.054	0.068	4:12:12 PM	9/22/2011 16:12	0.074
27600	0.067	0.071	0.077	0.099	4:13:12 PM	9/22/2011 16:13	0.108
27660	0.066	0.07	0.076	0.097	4:14:12 PM	9/22/2011 16:14	0.107
27720	0.054	0.057	0.061	0.074	4:15:12 PM	9/22/2011 16:15	0.078
27780	0.063	0.067	0.071	0.088	4:16:12 PM	9/22/2011 16:16	0.091
27840	0.047	0.049	0.052	0.06	4:17:12 PM	9/22/2011 16:17	0.064
27900	0.06	0.063	0.068	0.079	4:18:12 PM	9/22/2011 16:18	0.083
27960	0.052	0.054	0.058	0.066	4:19:12 PM	9/22/2011 16:19	0.071
28020	0.057	0.06	0.064	0.074	4:20:12 PM	9/22/2011 16:20	0.075
28080	0.051	0.054	0.058	0.066	4:21:12 PM	9/22/2011 16:21	0.069
28140	0.043	0.045	0.047	0.055	4:22:12 PM	9/22/2011 16:22	0.056
28200	0.049	0.052	0.055	0.064	4:23:12 PM	9/22/2011 16:23	0.068
28260	0.093	0.096	0.104	0.136	4:24:12 PM	9/22/2011 16:24	0.146
28320	0.054	0.056	0.06	0.072	4:25:12 PM	9/22/2011 16:25	0.076
28380	0.057	0.06	0.064	0.077	4:26:12 PM	9/22/2011 16:26	0.08
28440	0.04	0.041	0.044	0.051	4:27:12 PM	9/22/2011 16:27	0.054
28500	0.036	0.037	0.039	0.045	4:28:12 PM	9/22/2011 16:28	0.045
28560	0.039	0.041	0.042	0.047	4:29:12 PM	9/22/2011 16:29	0.05
28620	0.041	0.042	0.044	0.05	4:30:12 PM	9/22/2011 16:30	0.052
28680	0.035	0.036	0.038	0.041	4:31:12 PM	9/22/2011 16:31	0.041
28740	0.025	0.026	0.027	0.029	4:32:12 PM	9/22/2011 16:32	0.029
28800	0.025	0.026	0.026	0.029	4:33:12 PM	9/22/2011 16:33	0.029
28860	0.028	0.029	0.03	0.034	4:34:12 PM	9/22/2011 16:34	0.036
28920	0.033	0.035	0.036	0.039	4:35:12 PM	9/22/2011 16:35	0.039
28980	0.049	0.052	0.056	0.063	4:36:12 PM	9/22/2011 16:36	0.064
29040	0.046	0.048	0.051	0.057	4:37:12 PM	9/22/2011 16:37	0.058
29100	0.035	0.036	0.038	0.041	4:38:12 PM	9/22/2011 16:38	0.043
29160	0.041	0.043	0.044	0.048	4:39:12 PM	9/22/2011 16:39	0.05
29220	0.039	0.04	0.042	0.046	4:40:12 PM	9/22/2011 16:40	0.047
29280	0.041	0.043	0.045	0.049	4:41:12 PM	9/22/2011 16:41	0.05
29340	0.047	0.049	0.052	0.059	4:42:12 PM	9/22/2011 16:42	0.063
29400	0.077	0.08	0.084	0.096	4:43:12 PM	9/22/2011 16:43	0.099
29460	0.071	0.074	0.079	0.092	4:44:12 PM	9/22/2011 16:44	0.096
29520	0.073	0.076	0.081	0.097	4:45:12 PM	9/22/2011 16:45	0.101
29580	0.053	0.055	0.06	0.071	4:46:12 PM	9/22/2011 16:46	0.075
29640	0.041	0.042	0.045	0.05	4:47:12 PM	9/22/2011 16:47	0.052
29700	0.037	0.038	0.04	0.046	4:48:12 PM	9/22/2011 16:48	0.047
29760	0.026	0.027	0.028	0.032	4:49:12 PM	9/22/2011 16:49	0.032
29820	0.057	0.059	0.065	0.083	4:50:12 PM	9/22/2011 16:50	0.091
29880	0.046	0.048	0.052	0.066	4:51:12 PM	9/22/2011 16:51	0.07
29940	0.036	0.037	0.04	0.049	4:52:12 PM	9/22/2011 16:52	0.051
30000	0.046	0.048	0.053	0.064	4:53:12 PM	9/22/2011 16:53	0.068
30060	0.061	0.063	0.069	0.087	4:54:12 PM	9/22/2011 16:54	0.093
30120	0.061	0.064	0.068	0.085	4:55:12 PM	9/22/2011 16:55	0.094
30180	0.044	0.046	0.05	0.062	4:56:12 PM	9/22/2011 16:56	0.065
30240	0.048	0.048	0.051	0.059	4:57:12 PM	9/22/2011 16:57	0.061
30300	0.03	0.03	0.032	0.036	4:58:12 PM	9/22/2011 16:58	0.038
30360	0.058	0.06	0.064	0.079	4:59:12 PM	9/22/2011 16:59	0.084
30420	0.046	0.048	0.051	0.06	5:00:12 PM	9/22/2011 17:00	0.062
30480	0.04	0.042	0.044	0.049	5:01:12 PM	9/22/2011 17:01	0.05
30540	0.059	0.061	0.063	0.071	5:02:12 PM	9/22/2011 17:02	0.075
30600	0.037	0.038	0.04	0.046	5:03:12 PM	9/22/2011 17:03	0.046
30660	0.056	0.057	0.059	0.063	5:04:12 PM	9/22/2011 17:04	0.065
30720	0.039	0.04	0.042	0.046	5:05:12 PM	9/22/2011 17:05	0.048
30780	0.025	0.026	0.026	0.028	5:06:12 PM	9/22/2011 17:06	0.029
30840	0.024	0.025	0.026	0.028	5:07:12 PM	9/22/2011 17:07	0.031
30900	0.022	0.022	0.023	0.026	5:08:12 PM	9/22/2011 17:08	0.027
30960	0.016	0.016	0.016	0.017	5:09:12 PM	9/22/2011 17:09	0.018
31020	0.014	0.014	0.015	0.015	5:10:12 PM	9/22/2011 17:10	0.016
31080	0.034	0.036	0.039	0.047	5:11:12 PM	9/22/2011 17:11	0.05

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_006
Test Start Time	7:29:00 AM
Test Start Date	9/23/2011
Test Length [D:H:M]	0:06:36
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.036
PM1 Minimum [mg/m3]	0.004
PM1 Maximum [mg/m3]	0.088
PM1 TWA [mg/m3]	0.03
PM2.5 Average [mg/m3]	0.037
PM2.5 Minimum [mg/m3]	0.004
PM2.5 Maximum [mg/m3]	0.089
PM2.5 TWA [mg/m3]	0.031
PM4 Average [mg/m3]	0.038
PM4 Minimum [mg/m3]	0.004
PM4 Maximum [mg/m3]	0.092
PM4 TWA [mg/m3]	0.031
PM10 Average [mg/m3]	0.039
PM10 Minimum [mg/m3]	0.005
PM10 Maximum [mg/m3]	0.109
PM10 TWA [mg/m3]	0.032
TOTAL Average [mg/m3]	0.04
TOTAL Minimum [mg/m3]	0.005
TOTAL Maximum [mg/m3]	0.136
TOTAL TWA [mg/m3]	0.033
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	396



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:29:00 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.088	0.089	0.09	0.098	7:30:00 AM	9/23/2011 7:30	0.104		
120	0.084	0.085	0.086	0.087	7:31:00 AM	9/23/2011 7:31	0.088		
180	0.082	0.083	0.083	0.084	7:32:00 AM	9/23/2011 7:32	0.085		
240	0.08	0.081	0.081	0.082	7:33:00 AM	9/23/2011 7:33	0.082		
300	0.079	0.079	0.08	0.081	7:34:00 AM	9/23/2011 7:34	0.081		
360	0.078	0.079	0.08	0.081	7:35:00 AM	9/23/2011 7:35	0.081		
420	0.076	0.077	0.077	0.079	7:36:00 AM	9/23/2011 7:36	0.079		
480	0.081	0.082	0.082	0.083	7:37:00 AM	9/23/2011 7:37	0.084		
540	0.079	0.08	0.08	0.081	7:38:00 AM	9/23/2011 7:38	0.081		
600	0.078	0.079	0.079	0.079	7:39:00 AM	9/23/2011 7:39	0.08		
660	0.078	0.079	0.08	0.08	7:40:00 AM	9/23/2011 7:40	0.08		
720	0.078	0.079	0.079	0.08	7:41:00 AM	9/23/2011 7:41	0.08		
780	0.076	0.077	0.078	0.078	7:42:00 AM	9/23/2011 7:42	0.078		
840	0.078	0.079	0.079	0.08	7:43:00 AM	9/23/2011 7:43	0.08		
900	0.077	0.077	0.078	0.078	7:44:00 AM	9/23/2011 7:44	0.078		
960	0.075	0.075	0.076	0.076	7:45:00 AM	9/23/2011 7:45	0.076		
1020	0.074	0.075	0.075	0.075	7:46:00 AM	9/23/2011 7:46	0.075		
1080	0.072	0.073	0.074	0.074	7:47:00 AM	9/23/2011 7:47	0.074		
1140	0.072	0.073	0.073	0.074	7:48:00 AM	9/23/2011 7:48	0.074		
1200	0.077	0.078	0.078	0.079	7:49:00 AM	9/23/2011 7:49	0.079		
1260	0.073	0.074	0.074	0.075	7:50:00 AM	9/23/2011 7:50	0.075		
1320	0.073	0.074	0.074	0.074	7:51:00 AM	9/23/2011 7:51	0.074		
1380	0.071	0.071	0.072	0.072	7:52:00 AM	9/23/2011 7:52	0.073		
1440	0.07	0.07	0.071	0.071	7:53:00 AM	9/23/2011 7:53	0.071		
1500	0.068	0.069	0.069	0.069	7:54:00 AM	9/23/2011 7:54	0.069		
1560	0.068	0.069	0.069	0.07	7:55:00 AM	9/23/2011 7:55	0.07		
1620	0.068	0.068	0.069	0.069	7:56:00 AM	9/23/2011 7:56	0.069		
1680	0.069	0.07	0.07	0.07	7:57:00 AM	9/23/2011 7:57	0.07		
1740	0.068	0.069	0.069	0.07	7:58:00 AM	9/23/2011 7:58	0.07		
1800	0.069	0.07	0.07	0.07	7:59:00 AM	9/23/2011 7:59	0.07		
1860	0.07	0.07	0.071	0.071	8:00:00 AM	9/23/2011 8:00	0.071		
1920	0.07	0.071	0.071	0.072	8:01:00 AM	9/23/2011 8:01	0.072		
1980	0.069	0.069	0.07	0.07	8:02:00 AM	9/23/2011 8:02	0.071		
2040	0.069	0.07	0.07	0.071	8:03:00 AM	9/23/2011 8:03	0.071		
2100	0.068	0.069	0.069	0.07	8:04:00 AM	9/23/2011 8:04	0.07		
2160	0.068	0.069	0.069	0.07	8:05:00 AM	9/23/2011 8:05	0.07		
2220	0.069	0.07	0.07	0.071	8:06:00 AM	9/23/2011 8:06	0.071		
2280	0.068	0.068	0.069	0.069	8:07:00 AM	9/23/2011 8:07	0.069		
2340	0.067	0.068	0.068	0.069	8:08:00 AM	9/23/2011 8:08	0.07		
2400	0.069	0.069	0.07	0.07	8:09:00 AM	9/23/2011 8:09	0.07		
2460	0.067	0.068	0.068	0.069	8:10:00 AM	9/23/2011 8:10	0.069		
2520	0.067	0.067	0.068	0.068	8:11:00 AM	9/23/2011 8:11	0.068		
2580	0.068	0.069	0.07	0.07	8:12:00 AM	9/23/2011 8:12	0.07		
2640	0.068	0.069	0.069	0.07	8:13:00 AM	9/23/2011 8:13	0.07		
2700	0.067	0.067	0.068	0.069	8:14:00 AM	9/23/2011 8:14	0.069		
2760	0.067	0.068	0.068	0.069	8:15:00 AM	9/23/2011 8:15	0.069		
2820	0.069	0.07	0.07	0.071	8:16:00 AM	9/23/2011 8:16	0.071		
2880	0.071	0.071	0.072	0.072	8:17:00 AM	9/23/2011 8:17	0.072		
2940	0.071	0.071	0.071	0.072	8:18:00 AM	9/23/2011 8:18	0.072		
3000	0.071	0.071	0.072	0.072	8:19:00 AM	9/23/2011 8:19	0.072		

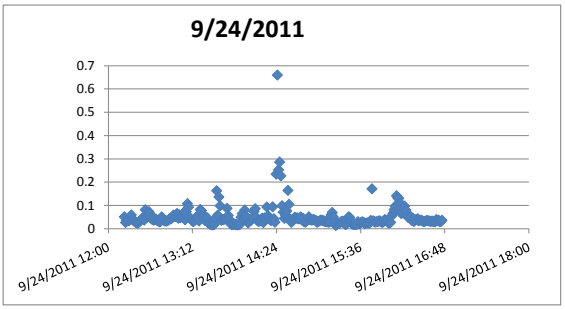
3060	0.07	0.071	0.071	0.071	8:20:00 AM	9/23/2011 8:20	0.071
3120	0.069	0.069	0.069	0.07	8:21:00 AM	9/23/2011 8:21	0.07
3180	0.068	0.069	0.069	0.07	8:22:00 AM	9/23/2011 8:22	0.07
3240	0.067	0.067	0.067	0.068	8:23:00 AM	9/23/2011 8:23	0.068
3300	0.067	0.068	0.068	0.069	8:24:00 AM	9/23/2011 8:24	0.069
3360	0.069	0.069	0.07	0.07	8:25:00 AM	9/23/2011 8:25	0.07
3420	0.073	0.073	0.074	0.075	8:26:00 AM	9/23/2011 8:26	0.075
3480	0.075	0.075	0.076	0.078	8:27:00 AM	9/23/2011 8:27	0.078
3540	0.075	0.075	0.077	0.079	8:28:00 AM	9/23/2011 8:28	0.079
3600	0.067	0.067	0.068	0.068	8:29:00 AM	9/23/2011 8:29	0.068
3660	0.068	0.069	0.069	0.07	8:30:00 AM	9/23/2011 8:30	0.07
3720	0.062	0.063	0.063	0.063	8:31:00 AM	9/23/2011 8:31	0.064
3780	0.057	0.058	0.058	0.058	8:32:00 AM	9/23/2011 8:32	0.059
3840	0.071	0.071	0.072	0.073	8:33:00 AM	9/23/2011 8:33	0.073
3900	0.07	0.07	0.071	0.074	8:34:00 AM	9/23/2011 8:34	0.076
3960	0.058	0.059	0.059	0.06	8:35:00 AM	9/23/2011 8:35	0.061
4020	0.056	0.056	0.057	0.057	8:36:00 AM	9/23/2011 8:36	0.057
4080	0.058	0.058	0.059	0.059	8:37:00 AM	9/23/2011 8:37	0.059
4140	0.055	0.055	0.055	0.056	8:38:00 AM	9/23/2011 8:38	0.056
4200	0.055	0.055	0.056	0.057	8:39:00 AM	9/23/2011 8:39	0.057
4260	0.057	0.058	0.058	0.06	8:40:00 AM	9/23/2011 8:40	0.06
4320	0.063	0.063	0.064	0.066	8:41:00 AM	9/23/2011 8:41	0.066
4380	0.065	0.066	0.066	0.068	8:42:00 AM	9/23/2011 8:42	0.068
4440	0.065	0.066	0.067	0.069	8:43:00 AM	9/23/2011 8:43	0.069
4500	0.064	0.065	0.066	0.067	8:44:00 AM	9/23/2011 8:44	0.067
4560	0.064	0.065	0.065	0.066	8:45:00 AM	9/23/2011 8:45	0.066
4620	0.065	0.065	0.066	0.067	8:46:00 AM	9/23/2011 8:46	0.067
4680	0.066	0.066	0.067	0.068	8:47:00 AM	9/23/2011 8:47	0.068
4740	0.066	0.067	0.067	0.069	8:48:00 AM	9/23/2011 8:48	0.069
4800	0.068	0.068	0.069	0.069	8:49:00 AM	9/23/2011 8:49	0.069
4860	0.067	0.067	0.067	0.068	8:50:00 AM	9/23/2011 8:50	0.068
4920	0.066	0.066	0.067	0.068	8:51:00 AM	9/23/2011 8:51	0.068
4980	0.065	0.066	0.066	0.067	8:52:00 AM	9/23/2011 8:52	0.068
5040	0.068	0.068	0.069	0.069	8:53:00 AM	9/23/2011 8:53	0.07
5100	0.067	0.068	0.068	0.068	8:54:00 AM	9/23/2011 8:54	0.069
5160	0.068	0.069	0.069	0.071	8:55:00 AM	9/23/2011 8:55	0.071
5220	0.069	0.07	0.07	0.073	8:56:00 AM	9/23/2011 8:56	0.073
5280	0.067	0.067	0.068	0.069	8:57:00 AM	9/23/2011 8:57	0.07
5340	0.059	0.06	0.06	0.061	8:58:00 AM	9/23/2011 8:58	0.061
5400	0.059	0.06	0.06	0.061	8:59:00 AM	9/23/2011 8:59	0.063
5460	0.057	0.057	0.057	0.059	9:00:00 AM	9/23/2011 9:00	0.059
5520	0.064	0.065	0.065	0.068	9:01:00 AM	9/23/2011 9:01	0.07
5580	0.067	0.068	0.068	0.071	9:02:00 AM	9/23/2011 9:02	0.072
5640	0.059	0.06	0.06	0.061	9:03:00 AM	9/23/2011 9:03	0.062
5700	0.063	0.064	0.064	0.066	9:04:00 AM	9/23/2011 9:04	0.068
5760	0.063	0.064	0.064	0.065	9:05:00 AM	9/23/2011 9:05	0.066
5820	0.06	0.061	0.061	0.063	9:06:00 AM	9/23/2011 9:06	0.063
5880	0.065	0.065	0.066	0.068	9:07:00 AM	9/23/2011 9:07	0.07
5940	0.061	0.062	0.062	0.065	9:08:00 AM	9/23/2011 9:08	0.067
6000	0.062	0.062	0.063	0.064	9:09:00 AM	9/23/2011 9:09	0.066
6060	0.062	0.062	0.063	0.064	9:10:00 AM	9/23/2011 9:10	0.065
6120	0.06	0.06	0.061	0.063	9:11:00 AM	9/23/2011 9:11	0.066
6180	0.059	0.059	0.06	0.062	9:12:00 AM	9/23/2011 9:12	0.063
6240	0.053	0.053	0.053	0.054	9:13:00 AM	9/23/2011 9:13	0.056
6300	0.05	0.05	0.051	0.052	9:14:00 AM	9/23/2011 9:14	0.053
6360	0.054	0.055	0.055	0.056	9:15:00 AM	9/23/2011 9:15	0.057
6420	0.058	0.058	0.058	0.059	9:16:00 AM	9/23/2011 9:16	0.061
6480	0.058	0.058	0.058	0.06	9:17:00 AM	9/23/2011 9:17	0.063
6540	0.056	0.057	0.057	0.058	9:18:00 AM	9/23/2011 9:18	0.058
6600	0.058	0.058	0.059	0.06	9:19:00 AM	9/23/2011 9:19	0.06
6660	0.056	0.056	0.057	0.058	9:20:00 AM	9/23/2011 9:20	0.06
6720	0.053	0.054	0.054	0.056	9:21:00 AM	9/23/2011 9:21	0.058
6780	0.055	0.055	0.055	0.057	9:22:00 AM	9/23/2011 9:22	0.058
6840	0.057	0.058	0.058	0.059	9:23:00 AM	9/23/2011 9:23	0.06
6900	0.054	0.054	0.054	0.056	9:24:00 AM	9/23/2011 9:24	0.056
6960	0.056	0.056	0.056	0.059	9:25:00 AM	9/23/2011 9:25	0.061
7020	0.054	0.055	0.055	0.058	9:26:00 AM	9/23/2011 9:26	0.059
7080	0.063	0.063	0.064	0.067	9:27:00 AM	9/23/2011 9:27	0.073
7140	0.064	0.065	0.065	0.069	9:28:00 AM	9/23/2011 9:28	0.073
7200	0.065	0.065	0.066	0.069	9:29:00 AM	9/23/2011 9:29	0.071
7260	0.062	0.062	0.063	0.064	9:30:00 AM	9/23/2011 9:30	0.068
7320	0.061	0.061	0.062	0.063	9:31:00 AM	9/23/2011 9:31	0.065
7380	0.062	0.062	0.062	0.065	9:32:00 AM	9/23/2011 9:32	0.067
7440	0.061	0.061	0.062	0.064	9:33:00 AM	9/23/2011 9:33	0.07
7500	0.052	0.053	0.053	0.055	9:34:00 AM	9/23/2011 9:34	0.057
7560	0.049	0.05	0.05	0.05	9:35:00 AM	9/23/2011 9:35	0.05
7620	0.052	0.053	0.053	0.054	9:36:00 AM	9/23/2011 9:36	0.054
7680	0.055	0.055	0.056	0.06	9:37:00 AM	9/23/2011 9:37	0.061
7740	0.05	0.051	0.051	0.052	9:38:00 AM	9/23/2011 9:38	0.053
7800	0.051	0.051	0.051	0.052	9:39:00 AM	9/23/2011 9:39	0.054
7860	0.051	0.051	0.051	0.052	9:40:00 AM	9/23/2011 9:40	0.052
7920	0.052	0.052	0.052	0.053	9:41:00 AM	9/23/2011 9:41	0.053
7980	0.054	0.054	0.054	0.055	9:42:00 AM	9/23/2011 9:42	0.055
8040	0.056	0.056	0.057	0.059	9:43:00 AM	9/23/2011 9:43	0.059
8100	0.068	0.069	0.072	0.078	9:44:00 AM	9/23/2011 9:44	0.081
8160	0.087	0.089	0.092	0.102	9:45:00 AM	9/23/2011 9:45	0.106
8220	0.065	0.066	0.067	0.071	9:46:00 AM	9/23/2011 9:46	0.073

8280	0.064	0.065	0.066	0.069	9:47:00 AM	9/23/2011 9:47	0.07
8340	0.055	0.056	0.056	0.06	9:48:00 AM	9/23/2011 9:48	0.063
8400	0.056	0.057	0.057	0.06	9:49:00 AM	9/23/2011 9:49	0.062
8460	0.054	0.055	0.056	0.059	9:50:00 AM	9/23/2011 9:50	0.059
8520	0.052	0.053	0.054	0.056	9:51:00 AM	9/23/2011 9:51	0.057
8580	0.049	0.049	0.05	0.051	9:52:00 AM	9/23/2011 9:52	0.052
8640	0.045	0.045	0.046	0.046	9:53:00 AM	9/23/2011 9:53	0.047
8700	0.06	0.062	0.066	0.073	9:54:00 AM	9/23/2011 9:54	0.073
8760	0.056	0.058	0.061	0.068	9:55:00 AM	9/23/2011 9:55	0.069
8820	0.044	0.045	0.046	0.049	9:56:00 AM	9/23/2011 9:56	0.05
8880	0.043	0.044	0.044	0.046	9:57:00 AM	9/23/2011 9:57	0.047
8940	0.046	0.047	0.049	0.054	9:58:00 AM	9/23/2011 9:58	0.054
9000	0.047	0.048	0.049	0.053	9:59:00 AM	9/23/2011 9:59	0.053
9060	0.045	0.046	0.047	0.05	10:00:00 AM	9/23/2011 10:00	0.05
9120	0.039	0.039	0.039	0.04	10:01:00 AM	9/23/2011 10:01	0.04
9180	0.036	0.036	0.036	0.037	10:02:00 AM	9/23/2011 10:02	0.037
9240	0.037	0.037	0.038	0.039	10:03:00 AM	9/23/2011 10:03	0.039
9300	0.034	0.035	0.035	0.035	10:04:00 AM	9/23/2011 10:04	0.036
9360	0.034	0.035	0.035	0.036	10:05:00 AM	9/23/2011 10:05	0.036
9420	0.037	0.037	0.038	0.04	10:06:00 AM	9/23/2011 10:06	0.042
9480	0.033	0.034	0.034	0.035	10:07:00 AM	9/23/2011 10:07	0.035
9540	0.032	0.032	0.033	0.033	10:08:00 AM	9/23/2011 10:08	0.033
9600	0.034	0.034	0.035	0.035	10:09:00 AM	9/23/2011 10:09	0.035
9660	0.035	0.035	0.035	0.036	10:10:00 AM	9/23/2011 10:10	0.036
9720	0.034	0.034	0.034	0.035	10:11:00 AM	9/23/2011 10:11	0.035
9780	0.033	0.034	0.034	0.034	10:12:00 AM	9/23/2011 10:12	0.035
9840	0.032	0.032	0.033	0.033	10:13:00 AM	9/23/2011 10:13	0.033
9900	0.032	0.033	0.033	0.034	10:14:00 AM	9/23/2011 10:14	0.034
9960	0.034	0.035	0.035	0.038	10:15:00 AM	9/23/2011 10:15	0.039
10020	0.033	0.033	0.034	0.035	10:16:00 AM	9/23/2011 10:16	0.035
10080	0.036	0.036	0.037	0.038	10:17:00 AM	9/23/2011 10:17	0.038
10140	0.036	0.037	0.037	0.039	10:18:00 AM	9/23/2011 10:18	0.039
10200	0.042	0.043	0.043	0.045	10:19:00 AM	9/23/2011 10:19	0.046
10260	0.043	0.044	0.045	0.048	10:20:00 AM	9/23/2011 10:20	0.05
10320	0.036	0.036	0.037	0.039	10:21:00 AM	9/23/2011 10:21	0.039
10380	0.035	0.035	0.035	0.037	10:22:00 AM	9/23/2011 10:22	0.037
10440	0.033	0.033	0.033	0.034	10:23:00 AM	9/23/2011 10:23	0.034
10500	0.033	0.033	0.033	0.034	10:24:00 AM	9/23/2011 10:24	0.034
10560	0.033	0.034	0.034	0.035	10:25:00 AM	9/23/2011 10:25	0.035
10620	0.038	0.039	0.04	0.042	10:26:00 AM	9/23/2011 10:26	0.042
10680	0.036	0.036	0.036	0.038	10:27:00 AM	9/23/2011 10:27	0.038
10740	0.036	0.036	0.037	0.037	10:28:00 AM	9/23/2011 10:28	0.038
10800	0.034	0.035	0.035	0.036	10:29:00 AM	9/23/2011 10:29	0.036
10860	0.04	0.041	0.042	0.046	10:30:00 AM	9/23/2011 10:30	0.046
10920	0.038	0.038	0.039	0.041	10:31:00 AM	9/23/2011 10:31	0.041
10980	0.034	0.034	0.035	0.035	10:32:00 AM	9/23/2011 10:32	0.035
11040	0.033	0.033	0.034	0.034	10:33:00 AM	9/23/2011 10:33	0.034
11100	0.035	0.035	0.035	0.036	10:34:00 AM	9/23/2011 10:34	0.037
11160	0.035	0.036	0.036	0.038	10:35:00 AM	9/23/2011 10:35	0.038
11220	0.038	0.038	0.039	0.044	10:36:00 AM	9/23/2011 10:36	0.047
11280	0.053	0.056	0.061	0.067	10:37:00 AM	9/23/2011 10:37	0.068
11340	0.033	0.034	0.034	0.035	10:38:00 AM	9/23/2011 10:38	0.035
11400	0.037	0.038	0.039	0.041	10:39:00 AM	9/23/2011 10:39	0.041
11460	0.034	0.035	0.035	0.035	10:40:00 AM	9/23/2011 10:40	0.035
11520	0.032	0.033	0.033	0.034	10:41:00 AM	9/23/2011 10:41	0.034
11580	0.032	0.032	0.032	0.033	10:42:00 AM	9/23/2011 10:42	0.033
11640	0.032	0.032	0.032	0.033	10:43:00 AM	9/23/2011 10:43	0.033
11700	0.031	0.031	0.032	0.032	10:44:00 AM	9/23/2011 10:44	0.032
11760	0.03	0.03	0.031	0.031	10:45:00 AM	9/23/2011 10:45	0.031
11820	0.029	0.029	0.03	0.031	10:46:00 AM	9/23/2011 10:46	0.031
11880	0.03	0.031	0.031	0.032	10:47:00 AM	9/23/2011 10:47	0.032
11940	0.031	0.032	0.032	0.034	10:48:00 AM	9/23/2011 10:48	0.034
12000	0.031	0.031	0.032	0.032	10:49:00 AM	9/23/2011 10:49	0.032
12060	0.029	0.029	0.03	0.03	10:50:00 AM	9/23/2011 10:50	0.03
12120	0.028	0.029	0.029	0.029	10:51:00 AM	9/23/2011 10:51	0.029
12180	0.028	0.028	0.028	0.028	10:52:00 AM	9/23/2011 10:52	0.028
12240	0.026	0.027	0.027	0.027	10:53:00 AM	9/23/2011 10:53	0.027
12300	0.026	0.027	0.027	0.027	10:54:00 AM	9/23/2011 10:54	0.027
12360	0.027	0.028	0.028	0.029	10:55:00 AM	9/23/2011 10:55	0.029
12420	0.03	0.031	0.031	0.031	10:56:00 AM	9/23/2011 10:56	0.031
12480	0.03	0.03	0.03	0.031	10:57:00 AM	9/23/2011 10:57	0.031
12540	0.028	0.029	0.029	0.029	10:58:00 AM	9/23/2011 10:58	0.029
12600	0.027	0.028	0.028	0.029	10:59:00 AM	9/23/2011 10:59	0.029
12660	0.03	0.031	0.032	0.034	11:00:00 AM	9/23/2011 11:00	0.034
12720	0.035	0.036	0.037	0.04	11:01:00 AM	9/23/2011 11:01	0.04
12780	0.03	0.03	0.03	0.031	11:02:00 AM	9/23/2011 11:02	0.031
12840	0.03	0.03	0.031	0.032	11:03:00 AM	9/23/2011 11:03	0.032
12900	0.029	0.03	0.031	0.033	11:04:00 AM	9/23/2011 11:04	0.033
12960	0.028	0.029	0.03	0.031	11:05:00 AM	9/23/2011 11:05	0.031
13020	0.027	0.027	0.028	0.028	11:06:00 AM	9/23/2011 11:06	0.028
13080	0.026	0.026	0.027	0.027	11:07:00 AM	9/23/2011 11:07	0.027
13140	0.026	0.026	0.026	0.027	11:08:00 AM	9/23/2011 11:08	0.027
13200	0.025	0.026	0.026	0.028	11:09:00 AM	9/23/2011 11:09	0.029
13260	0.024	0.024	0.024	0.025	11:10:00 AM	9/23/2011 11:10	0.025
13320	0.022	0.022	0.022	0.023	11:11:00 AM	9/23/2011 11:11	0.023
13380	0.022	0.022	0.023	0.023	11:12:00 AM	9/23/2011 11:12	0.023
13440	0.022	0.022	0.022	0.023	11:13:00 AM	9/23/2011 11:13	0.023

13500	0.025	0.025	0.026	0.029	11:14:00 AM	9/23/2011 11:14	0.029
13560	0.022	0.022	0.023	0.023	11:15:00 AM	9/23/2011 11:15	0.023
13620	0.022	0.022	0.022	0.022	11:16:00 AM	9/23/2011 11:16	0.022
13680	0.024	0.024	0.025	0.027	11:17:00 AM	9/23/2011 11:17	0.028
13740	0.023	0.023	0.023	0.024	11:18:00 AM	9/23/2011 11:18	0.024
13800	0.023	0.024	0.024	0.025	11:19:00 AM	9/23/2011 11:19	0.025
13860	0.06	0.062	0.068	0.109	11:20:00 AM	9/23/2011 11:20	0.136
13920	0.028	0.029	0.03	0.033	11:21:00 AM	9/23/2011 11:21	0.033
13980	0.026	0.027	0.028	0.03	11:22:00 AM	9/23/2011 11:22	0.03
14040	0.026	0.027	0.028	0.03	11:23:00 AM	9/23/2011 11:23	0.03
14100	0.024	0.025	0.026	0.028	11:24:00 AM	9/23/2011 11:24	0.028
14160	0.019	0.02	0.02	0.021	11:25:00 AM	9/23/2011 11:25	0.022
14220	0.018	0.018	0.019	0.02	11:26:00 AM	9/23/2011 11:26	0.02
14280	0.018	0.018	0.019	0.019	11:27:00 AM	9/23/2011 11:27	0.019
14340	0.018	0.019	0.019	0.02	11:28:00 AM	9/23/2011 11:28	0.02
14400	0.016	0.017	0.017	0.018	11:29:00 AM	9/23/2011 11:29	0.018
14460	0.015	0.016	0.016	0.017	11:30:00 AM	9/23/2011 11:30	0.017
14520	0.014	0.015	0.015	0.015	11:31:00 AM	9/23/2011 11:31	0.015
14580	0.012	0.013	0.013	0.013	11:32:00 AM	9/23/2011 11:32	0.013
14640	0.013	0.013	0.013	0.014	11:33:00 AM	9/23/2011 11:33	0.014
14700	0.011	0.012	0.012	0.012	11:34:00 AM	9/23/2011 11:34	0.013
14760	0.01	0.01	0.01	0.011	11:35:00 AM	9/23/2011 11:35	0.011
14820	0.012	0.012	0.012	0.013	11:36:00 AM	9/23/2011 11:36	0.013
14880	0.012	0.012	0.012	0.013	11:37:00 AM	9/23/2011 11:37	0.014
14940	0.012	0.012	0.012	0.012	11:38:00 AM	9/23/2011 11:38	0.012
15000	0.012	0.012	0.012	0.013	11:39:00 AM	9/23/2011 11:39	0.013
15060	0.012	0.013	0.013	0.013	11:40:00 AM	9/23/2011 11:40	0.013
15120	0.014	0.014	0.014	0.015	11:41:00 AM	9/23/2011 11:41	0.015
15180	0.014	0.014	0.014	0.015	11:42:00 AM	9/23/2011 11:42	0.015
15240	0.013	0.013	0.013	0.014	11:43:00 AM	9/23/2011 11:43	0.014
15300	0.013	0.013	0.013	0.014	11:44:00 AM	9/23/2011 11:44	0.014
15360	0.012	0.012	0.012	0.012	11:45:00 AM	9/23/2011 11:45	0.012
15420	0.012	0.012	0.013	0.013	11:46:00 AM	9/23/2011 11:46	0.013
15480	0.012	0.013	0.013	0.013	11:47:00 AM	9/23/2011 11:47	0.013
15540	0.013	0.013	0.013	0.013	11:48:00 AM	9/23/2011 11:48	0.013
15600	0.013	0.013	0.014	0.014	11:49:00 AM	9/23/2011 11:49	0.014
15660	0.012	0.012	0.012	0.013	11:50:00 AM	9/23/2011 11:50	0.013
15720	0.012	0.012	0.012	0.012	11:51:00 AM	9/23/2011 11:51	0.012
15780	0.011	0.012	0.012	0.012	11:52:00 AM	9/23/2011 11:52	0.012
15840	0.012	0.012	0.013	0.013	11:53:00 AM	9/23/2011 11:53	0.013
15900	0.015	0.015	0.016	0.017	11:54:00 AM	9/23/2011 11:54	0.017
15960	0.012	0.013	0.013	0.014	11:55:00 AM	9/23/2011 11:55	0.015
16020	0.011	0.012	0.012	0.013	11:56:00 AM	9/23/2011 11:56	0.013
16080	0.012	0.012	0.013	0.014	11:57:00 AM	9/23/2011 11:57	0.015
16140	0.013	0.014	0.014	0.015	11:58:00 AM	9/23/2011 11:58	0.015
16200	0.017	0.018	0.018	0.019	11:59:00 AM	9/23/2011 11:59	0.02
16260	0.016	0.017	0.017	0.018	12:00:00 PM	9/23/2011 12:00	0.018
16320	0.019	0.019	0.02	0.021	12:01:00 PM	9/23/2011 12:01	0.021
16380	0.02	0.021	0.022	0.024	12:02:00 PM	9/23/2011 12:02	0.024
16440	0.015	0.016	0.017	0.018	12:03:00 PM	9/23/2011 12:03	0.018
16500	0.023	0.024	0.026	0.028	12:04:00 PM	9/23/2011 12:04	0.028
16560	0.02	0.021	0.023	0.025	12:05:00 PM	9/23/2011 12:05	0.025
16620	0.014	0.015	0.016	0.017	12:06:00 PM	9/23/2011 12:06	0.017
16680	0.013	0.013	0.014	0.015	12:07:00 PM	9/23/2011 12:07	0.015
16740	0.011	0.012	0.012	0.013	12:08:00 PM	9/23/2011 12:08	0.013
16800	0.008	0.009	0.009	0.01	12:09:00 PM	9/23/2011 12:09	0.01
16860	0.009	0.01	0.01	0.011	12:10:00 PM	9/23/2011 12:10	0.011
16920	0.008	0.008	0.008	0.009	12:11:00 PM	9/23/2011 12:11	0.01
16980	0.007	0.008	0.008	0.009	12:12:00 PM	9/23/2011 12:12	0.009
17040	0.007	0.008	0.008	0.008	12:13:00 PM	9/23/2011 12:13	0.008
17100	0.008	0.008	0.009	0.009	12:14:00 PM	9/23/2011 12:14	0.009
17160	0.007	0.007	0.007	0.008	12:15:00 PM	9/23/2011 12:15	0.008
17220	0.007	0.007	0.007	0.008	12:16:00 PM	9/23/2011 12:16	0.008
17280	0.008	0.008	0.008	0.009	12:17:00 PM	9/23/2011 12:17	0.009
17340	0.009	0.01	0.01	0.01	12:18:00 PM	9/23/2011 12:18	0.011
17400	0.009	0.009	0.01	0.01	12:19:00 PM	9/23/2011 12:19	0.01
17460	0.007	0.007	0.007	0.008	12:20:00 PM	9/23/2011 12:20	0.008
17520	0.007	0.007	0.007	0.008	12:21:00 PM	9/23/2011 12:21	0.008
17580	0.007	0.007	0.007	0.008	12:22:00 PM	9/23/2011 12:22	0.008
17640	0.008	0.008	0.008	0.009	12:23:00 PM	9/23/2011 12:23	0.009
17700	0.008	0.008	0.009	0.009	12:24:00 PM	9/23/2011 12:24	0.009
17760	0.009	0.009	0.01	0.01	12:25:00 PM	9/23/2011 12:25	0.01
17820	0.009	0.009	0.01	0.01	12:26:00 PM	9/23/2011 12:26	0.01
17880	0.009	0.01	0.01	0.01	12:27:00 PM	9/23/2011 12:27	0.01
17940	0.008	0.008	0.008	0.009	12:28:00 PM	9/23/2011 12:28	0.009
18000	0.009	0.009	0.009	0.01	12:29:00 PM	9/23/2011 12:29	0.01
18060	0.008	0.009	0.009	0.009	12:30:00 PM	9/23/2011 12:30	0.009
18120	0.008	0.009	0.009	0.01	12:31:00 PM	9/23/2011 12:31	0.01
18180	0.01	0.01	0.011	0.011	12:32:00 PM	9/23/2011 12:32	0.012
18240	0.012	0.013	0.013	0.014	12:33:00 PM	9/23/2011 12:33	0.015
18300	0.009	0.009	0.01	0.01	12:34:00 PM	9/23/2011 12:34	0.01
18360	0.011	0.011	0.012	0.013	12:35:00 PM	9/23/2011 12:35	0.013
18420	0.008	0.009	0.01	0.011	12:36:00 PM	9/23/2011 12:36	0.011
18480	0.006	0.006	0.006	0.007	12:37:00 PM	9/23/2011 12:37	0.007
18540	0.006	0.006	0.007	0.008	12:38:00 PM	9/23/2011 12:38	0.008
18600	0.006	0.006	0.006	0.006	12:39:00 PM	9/23/2011 12:39	0.007
18660	0.006	0.006	0.006	0.006	12:40:00 PM	9/23/2011 12:40	0.006

18720	0.006	0.006	0.007	0.007	12:41:00 PM	9/23/2011 12:41	0.007
18780	0.008	0.009	0.009	0.01	12:42:00 PM	9/23/2011 12:42	0.01
18840	0.013	0.014	0.016	0.016	12:43:00 PM	9/23/2011 12:43	0.016
18900	0.011	0.012	0.013	0.014	12:44:00 PM	9/23/2011 12:44	0.014
18960	0.008	0.009	0.009	0.01	12:45:00 PM	9/23/2011 12:45	0.01
19020	0.006	0.007	0.007	0.007	12:46:00 PM	9/23/2011 12:46	0.007
19080	0.006	0.006	0.006	0.007	12:47:00 PM	9/23/2011 12:47	0.007
19140	0.007	0.007	0.007	0.008	12:48:00 PM	9/23/2011 12:48	0.008
19200	0.006	0.007	0.007	0.007	12:49:00 PM	9/23/2011 12:49	0.007
19260	0.007	0.007	0.008	0.008	12:50:00 PM	9/23/2011 12:50	0.008
19320	0.006	0.007	0.007	0.007	12:51:00 PM	9/23/2011 12:51	0.007
19380	0.008	0.008	0.008	0.009	12:52:00 PM	9/23/2011 12:52	0.009
19440	0.007	0.007	0.008	0.008	12:53:00 PM	9/23/2011 12:53	0.008
19500	0.007	0.007	0.007	0.008	12:54:00 PM	9/23/2011 12:54	0.008
19560	0.006	0.006	0.007	0.007	12:55:00 PM	9/23/2011 12:55	0.007
19620	0.006	0.006	0.007	0.007	12:56:00 PM	9/23/2011 12:56	0.007
19680	0.006	0.006	0.006	0.006	12:57:00 PM	9/23/2011 12:57	0.006
19740	0.006	0.006	0.006	0.006	12:58:00 PM	9/23/2011 12:58	0.006
19800	0.007	0.008	0.008	0.008	12:59:00 PM	9/23/2011 12:59	0.008
19860	0.006	0.006	0.006	0.007	1:00:00 PM	9/23/2011 13:00	0.007
19920	0.005	0.005	0.006	0.006	1:01:00 PM	9/23/2011 13:01	0.006
19980	0.005	0.005	0.005	0.006	1:02:00 PM	9/23/2011 13:02	0.006
20040	0.015	0.015	0.016	0.026	1:03:00 PM	9/23/2011 13:03	0.038
20100	0.007	0.007	0.007	0.007	1:04:00 PM	9/23/2011 13:04	0.007
20160	0.005	0.005	0.006	0.006	1:05:00 PM	9/23/2011 13:05	0.006
20220	0.005	0.005	0.005	0.005	1:06:00 PM	9/23/2011 13:06	0.006
20280	0.005	0.005	0.005	0.005	1:07:00 PM	9/23/2011 13:07	0.005
20340	0.004	0.004	0.005	0.005	1:08:00 PM	9/23/2011 13:08	0.005
20400	0.005	0.006	0.006	0.006	1:09:00 PM	9/23/2011 13:09	0.006
20460	0.004	0.004	0.004	0.005	1:10:00 PM	9/23/2011 13:10	0.005
20520	0.014	0.014	0.016	0.02	1:11:00 PM	9/23/2011 13:11	0.023
20580	0.031	0.033	0.038	0.05	1:12:00 PM	9/23/2011 13:12	0.052
20640	0.045	0.048	0.056	0.073	1:13:00 PM	9/23/2011 13:13	0.076
20700	0.029	0.031	0.035	0.041	1:14:00 PM	9/23/2011 13:14	0.041
20760	0.027	0.029	0.033	0.037	1:15:00 PM	9/23/2011 13:15	0.037
20820	0.024	0.026	0.029	0.034	1:16:00 PM	9/23/2011 13:16	0.035
20880	0.042	0.045	0.052	0.067	1:17:00 PM	9/23/2011 13:17	0.069
20940	0.032	0.035	0.039	0.05	1:18:00 PM	9/23/2011 13:18	0.053
21000	0.025	0.027	0.031	0.037	1:19:00 PM	9/23/2011 13:19	0.037
21060	0.025	0.026	0.03	0.037	1:20:00 PM	9/23/2011 13:20	0.039
21120	0.032	0.033	0.037	0.048	1:21:00 PM	9/23/2011 13:21	0.05
21180	0.036	0.039	0.043	0.056	1:22:00 PM	9/23/2011 13:22	0.061
21240	0.024	0.026	0.029	0.035	1:23:00 PM	9/23/2011 13:23	0.036
21300	0.022	0.024	0.027	0.031	1:24:00 PM	9/23/2011 13:24	0.031
21360	0.021	0.023	0.026	0.029	1:25:00 PM	9/23/2011 13:25	0.029
21420	0.015	0.016	0.017	0.02	1:26:00 PM	9/23/2011 13:26	0.02
21480	0.014	0.015	0.016	0.017	1:27:00 PM	9/23/2011 13:27	0.017
21540	0.015	0.016	0.018	0.019	1:28:00 PM	9/23/2011 13:28	0.02
21600	0.016	0.017	0.018	0.02	1:29:00 PM	9/23/2011 13:29	0.02
21660	0.017	0.018	0.019	0.021	1:30:00 PM	9/23/2011 13:30	0.021
21720	0.02	0.021	0.022	0.025	1:31:00 PM	9/23/2011 13:31	0.025
21780	0.021	0.022	0.024	0.027	1:32:00 PM	9/23/2011 13:32	0.029
21840	0.018	0.019	0.021	0.024	1:33:00 PM	9/23/2011 13:33	0.024
21900	0.02	0.021	0.022	0.024	1:34:00 PM	9/23/2011 13:34	0.025
21960	0.022	0.023	0.024	0.026	1:35:00 PM	9/23/2011 13:35	0.026
22020	0.026	0.026	0.027	0.029	1:36:00 PM	9/23/2011 13:36	0.03
22080	0.022	0.023	0.024	0.026	1:37:00 PM	9/23/2011 13:37	0.027
22140	0.033	0.035	0.039	0.049	1:38:00 PM	9/23/2011 13:38	0.051
22200	0.029	0.031	0.034	0.04	1:39:00 PM	9/23/2011 13:39	0.041
22260	0.021	0.022	0.023	0.027	1:40:00 PM	9/23/2011 13:40	0.027
22320	0.018	0.019	0.02	0.023	1:41:00 PM	9/23/2011 13:41	0.023
22380	0.015	0.016	0.017	0.02	1:42:00 PM	9/23/2011 13:42	0.021
22440	0.011	0.012	0.013	0.014	1:43:00 PM	9/23/2011 13:43	0.014
22500	0.011	0.011	0.012	0.014	1:44:00 PM	9/23/2011 13:44	0.015
22560	0.009	0.009	0.01	0.01	1:45:00 PM	9/23/2011 13:45	0.01
22620	0.008	0.009	0.009	0.01	1:46:00 PM	9/23/2011 13:46	0.01
22680	0.009	0.01	0.01	0.012	1:47:00 PM	9/23/2011 13:47	0.013
22740	0.009	0.009	0.01	0.011	1:48:00 PM	9/23/2011 13:48	0.011
22800	0.011	0.012	0.012	0.014	1:49:00 PM	9/23/2011 13:49	0.014
22860	0.013	0.014	0.014	0.015	1:50:00 PM	9/23/2011 13:50	0.015
22920	0.012	0.013	0.013	0.014	1:51:00 PM	9/23/2011 13:51	0.015
22980	0.012	0.013	0.013	0.015	1:52:00 PM	9/23/2011 13:52	0.016
23040	0.013	0.014	0.014	0.016	1:53:00 PM	9/23/2011 13:53	0.017
23100	0.012	0.013	0.013	0.015	1:54:00 PM	9/23/2011 13:54	0.016
23160	0.011	0.012	0.012	0.013	1:55:00 PM	9/23/2011 13:55	0.013
23220	0.009	0.009	0.01	0.011	1:56:00 PM	9/23/2011 13:56	0.011
23280	0.008	0.008	0.009	0.009	1:57:00 PM	9/23/2011 13:57	0.009
23340	0.008	0.008	0.009	0.009	1:58:00 PM	9/23/2011 13:58	0.009
23400	0.008	0.009	0.009	0.01	1:59:00 PM	9/23/2011 13:59	0.011
23460	0.009	0.01	0.01	0.012	2:00:00 PM	9/23/2011 14:00	0.012
23520	0.008	0.009	0.009	0.01	2:01:00 PM	9/23/2011 14:01	0.01
23580	0.007	0.007	0.007	0.008	2:02:00 PM	9/23/2011 14:02	0.008
23640	0.007	0.007	0.008	0.009	2:03:00 PM	9/23/2011 14:03	0.009
23700	0.007	0.007	0.007	0.009	2:04:00 PM	9/23/2011 14:04	0.009
23760	0.008	0.008	0.008	0.009	2:05:00 PM	9/23/2011 14:05	0.01

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_007
Test Start Time	12:12:45 PM
Test Start Date	9/24/2011
Test Length [D:H:M]	0:04:33
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.039
PM1 Minimum [mg/m3]	0.013
PM1 Maximum [mg/m3]	0.365
PM1 TWA [mg/m3]	0.022
PM2.5 Average [mg/m3]	0.04
PM2.5 Minimum [mg/m3]	0.013
PM2.5 Maximum [mg/m3]	0.388
PM2.5 TWA [mg/m3]	0.023
PM4 Average [mg/m3]	0.042
PM4 Minimum [mg/m3]	0.013
PM4 Maximum [mg/m3]	0.45
PM4 TWA [mg/m3]	0.024
PM10 Average [mg/m3]	0.048
PM10 Minimum [mg/m3]	0.014
PM10 Maximum [mg/m3]	0.62
PM10 TWA [mg/m3]	0.027
TOTAL Average [mg/m3]	0.049
TOTAL Minimum [mg/m3]	0.014
TOTAL Maximum [mg/m3]	0.659
TOTAL TWA [mg/m3]	0.028
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	273



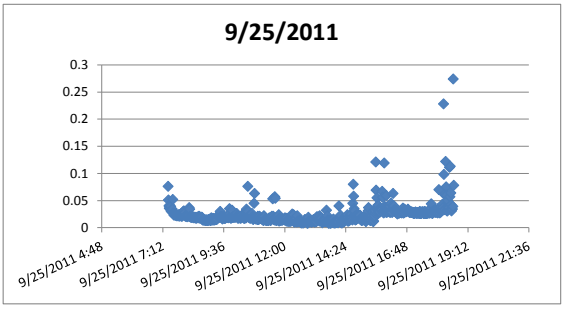
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	12:12:45 PM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.04	0.04	0.041	0.046	12:13:45 PM	9/24/2011 12:13	0.051		
120	0.024	0.024	0.025	0.025	12:14:45 PM	9/24/2011 12:14	0.026		
180	0.032	0.033	0.034	0.036	12:15:45 PM	9/24/2011 12:15	0.036		
240	0.031	0.032	0.033	0.035	12:16:45 PM	9/24/2011 12:16	0.035		
300	0.028	0.029	0.03	0.033	12:17:45 PM	9/24/2011 12:17	0.034		
360	0.032	0.033	0.035	0.041	12:18:45 PM	9/24/2011 12:18	0.041		
420	0.051	0.052	0.054	0.059	12:19:45 PM	9/24/2011 12:19	0.059		
480	0.038	0.038	0.04	0.043	12:20:45 PM	9/24/2011 12:20	0.043		
540	0.03	0.031	0.032	0.034	12:21:45 PM	9/24/2011 12:21	0.034		
600	0.027	0.027	0.028	0.03	12:22:45 PM	9/24/2011 12:22	0.03		
660	0.024	0.025	0.025	0.026	12:23:45 PM	9/24/2011 12:23	0.026		
720	0.023	0.023	0.023	0.024	12:24:45 PM	9/24/2011 12:24	0.024		
780	0.023	0.023	0.024	0.024	12:25:45 PM	9/24/2011 12:25	0.025		
840	0.027	0.028	0.028	0.03	12:26:45 PM	9/24/2011 12:26	0.03		
900	0.03	0.031	0.032	0.035	12:27:45 PM	9/24/2011 12:27	0.036		
960	0.038	0.038	0.039	0.043	12:28:45 PM	9/24/2011 12:28	0.043		
1020	0.042	0.043	0.044	0.047	12:29:45 PM	9/24/2011 12:29	0.048		
1080	0.035	0.035	0.036	0.037	12:30:45 PM	9/24/2011 12:30	0.037		
1140	0.056	0.058	0.063	0.078	12:31:45 PM	9/24/2011 12:31	0.081		
1200	0.043	0.044	0.048	0.059	12:32:45 PM	9/24/2011 12:32	0.061		
1260	0.039	0.039	0.042	0.051	12:33:45 PM	9/24/2011 12:33	0.052		
1320	0.053	0.054	0.059	0.07	12:34:45 PM	9/24/2011 12:34	0.073		
1380	0.048	0.05	0.053	0.064	12:35:45 PM	9/24/2011 12:35	0.065		
1440	0.037	0.038	0.04	0.045	12:36:45 PM	9/24/2011 12:36	0.045		
1500	0.035	0.035	0.036	0.039	12:37:45 PM	9/24/2011 12:37	0.039		
1560	0.034	0.034	0.035	0.037	12:38:45 PM	9/24/2011 12:38	0.037		
1620	0.033	0.034	0.035	0.037	12:39:45 PM	9/24/2011 12:39	0.038		
1680	0.035	0.036	0.037	0.041	12:40:45 PM	9/24/2011 12:40	0.041		
1740	0.032	0.033	0.033	0.036	12:41:45 PM	9/24/2011 12:41	0.036		
1800	0.03	0.031	0.031	0.032	12:42:45 PM	9/24/2011 12:42	0.032		
1860	0.028	0.028	0.028	0.029	12:43:45 PM	9/24/2011 12:43	0.029		
1920	0.029	0.029	0.03	0.031	12:44:45 PM	9/24/2011 12:44	0.031		
1980	0.046	0.046	0.047	0.05	12:45:45 PM	9/24/2011 12:45	0.051		
2040	0.039	0.04	0.041	0.042	12:46:45 PM	9/24/2011 12:46	0.042		
2100	0.031	0.031	0.032	0.034	12:47:45 PM	9/24/2011 12:47	0.034		
2160	0.03	0.031	0.031	0.033	12:48:45 PM	9/24/2011 12:48	0.033		
2220	0.03	0.03	0.031	0.032	12:49:45 PM	9/24/2011 12:49	0.032		
2280	0.032	0.032	0.033	0.034	12:50:45 PM	9/24/2011 12:50	0.034		
2340	0.034	0.035	0.035	0.038	12:51:45 PM	9/24/2011 12:51	0.039		
2400	0.037	0.037	0.039	0.041	12:52:45 PM	9/24/2011 12:52	0.042		
2460	0.038	0.039	0.04	0.042	12:53:45 PM	9/24/2011 12:53	0.042		
2520	0.043	0.043	0.044	0.046	12:54:45 PM	9/24/2011 12:54	0.048		
2580	0.053	0.053	0.055	0.057	12:55:45 PM	9/24/2011 12:55	0.058		
2640	0.049	0.049	0.05	0.052	12:56:45 PM	9/24/2011 12:56	0.053		
2700	0.049	0.049	0.05	0.052	12:57:45 PM	9/24/2011 12:57	0.052		
2760	0.061	0.061	0.063	0.065	12:58:45 PM	9/24/2011 12:58	0.065		
2820	0.043	0.043	0.044	0.045	12:59:45 PM	9/24/2011 12:59	0.045		
2880	0.054	0.055	0.056	0.059	1:00:45 PM	9/24/2011 13:00	0.06		
2940	0.043	0.044	0.045	0.046	1:01:45 PM	9/24/2011 13:01	0.047		
3000	0.049	0.05	0.052	0.058	1:02:45 PM	9/24/2011 13:02	0.059		

3060	0.046	0.047	0.048	0.05	1:03:45 PM	9/24/2011 13:03	0.05
3120	0.065	0.066	0.067	0.069	1:04:45 PM	9/24/2011 13:04	0.07
3180	0.036	0.037	0.037	0.038	1:05:45 PM	9/24/2011 13:05	0.038
3240	0.061	0.063	0.067	0.073	1:06:45 PM	9/24/2011 13:06	0.073
3300	0.087	0.09	0.096	0.106	1:07:45 PM	9/24/2011 13:07	0.107
3360	0.08	0.082	0.086	0.092	1:08:45 PM	9/24/2011 13:08	0.092
3420	0.044	0.045	0.046	0.048	1:09:45 PM	9/24/2011 13:09	0.048
3480	0.039	0.04	0.04	0.042	1:10:45 PM	9/24/2011 13:10	0.042
3540	0.032	0.032	0.033	0.034	1:11:45 PM	9/24/2011 13:11	0.034
3600	0.027	0.027	0.027	0.029	1:12:45 PM	9/24/2011 13:12	0.03
3660	0.029	0.029	0.03	0.032	1:13:45 PM	9/24/2011 13:13	0.034
3720	0.037	0.038	0.041	0.046	1:14:45 PM	9/24/2011 13:14	0.048
3780	0.036	0.037	0.038	0.043	1:15:45 PM	9/24/2011 13:15	0.043
3840	0.041	0.042	0.045	0.051	1:16:45 PM	9/24/2011 13:16	0.052
3900	0.028	0.029	0.03	0.033	1:17:45 PM	9/24/2011 13:17	0.033
3960	0.056	0.059	0.065	0.078	1:18:45 PM	9/24/2011 13:18	0.082
4020	0.057	0.058	0.063	0.074	1:19:45 PM	9/24/2011 13:19	0.077
4080	0.041	0.042	0.045	0.05	1:20:45 PM	9/24/2011 13:20	0.051
4140	0.046	0.048	0.052	0.058	1:21:45 PM	9/24/2011 13:21	0.058
4200	0.029	0.03	0.032	0.035	1:22:45 PM	9/24/2011 13:22	0.035
4260	0.038	0.039	0.041	0.044	1:23:45 PM	9/24/2011 13:23	0.045
4320	0.038	0.039	0.041	0.045	1:24:45 PM	9/24/2011 13:24	0.046
4380	0.022	0.022	0.022	0.024	1:25:45 PM	9/24/2011 13:25	0.024
4440	0.019	0.019	0.02	0.02	1:26:45 PM	9/24/2011 13:26	0.02
4500	0.019	0.019	0.02	0.02	1:27:45 PM	9/24/2011 13:27	0.02
4560	0.015	0.016	0.016	0.016	1:28:45 PM	9/24/2011 13:28	0.016
4620	0.016	0.016	0.017	0.017	1:29:45 PM	9/24/2011 13:29	0.017
4680	0.017	0.017	0.017	0.018	1:30:45 PM	9/24/2011 13:30	0.018
4740	0.03	0.031	0.034	0.042	1:31:45 PM	9/24/2011 13:31	0.044
4800	0.095	0.099	0.112	0.154	1:32:45 PM	9/24/2011 13:32	0.163
4860	0.039	0.041	0.045	0.054	1:33:45 PM	9/24/2011 13:33	0.058
4920	0.083	0.086	0.096	0.128	1:34:45 PM	9/24/2011 13:34	0.136
4980	0.061	0.063	0.07	0.093	1:35:45 PM	9/24/2011 13:35	0.098
5040	0.027	0.027	0.029	0.034	1:36:45 PM	9/24/2011 13:36	0.036
5100	0.032	0.033	0.034	0.039	1:37:45 PM	9/24/2011 13:37	0.04
5160	0.033	0.034	0.035	0.039	1:38:45 PM	9/24/2011 13:38	0.039
5220	0.034	0.035	0.037	0.041	1:39:45 PM	9/24/2011 13:39	0.041
5280	0.035	0.036	0.037	0.042	1:40:45 PM	9/24/2011 13:40	0.043
5340	0.054	0.056	0.061	0.081	1:41:45 PM	9/24/2011 13:41	0.087
5400	0.041	0.042	0.046	0.056	1:42:45 PM	9/24/2011 13:42	0.057
5460	0.03	0.031	0.032	0.038	1:43:45 PM	9/24/2011 13:43	0.039
5520	0.019	0.02	0.02	0.021	1:44:45 PM	9/24/2011 13:44	0.021
5580	0.016	0.016	0.016	0.017	1:45:45 PM	9/24/2011 13:45	0.017
5640	0.017	0.017	0.018	0.018	1:46:45 PM	9/24/2011 13:46	0.018
5700	0.018	0.019	0.019	0.02	1:47:45 PM	9/24/2011 13:47	0.02
5760	0.017	0.017	0.017	0.017	1:48:45 PM	9/24/2011 13:48	0.017
5820	0.017	0.017	0.018	0.018	1:49:45 PM	9/24/2011 13:49	0.018
5880	0.016	0.016	0.016	0.016	1:50:45 PM	9/24/2011 13:50	0.016
5940	0.016	0.016	0.017	0.017	1:51:45 PM	9/24/2011 13:51	0.017
6000	0.018	0.018	0.019	0.019	1:52:45 PM	9/24/2011 13:52	0.019
6060	0.035	0.036	0.039	0.047	1:53:45 PM	9/24/2011 13:53	0.049
6120	0.041	0.043	0.048	0.063	1:54:45 PM	9/24/2011 13:54	0.065
6180	0.027	0.028	0.03	0.036	1:55:45 PM	9/24/2011 13:55	0.037
6240	0.049	0.052	0.058	0.076	1:56:45 PM	9/24/2011 13:56	0.08
6300	0.037	0.039	0.043	0.055	1:57:45 PM	9/24/2011 13:57	0.055
6360	0.029	0.03	0.032	0.039	1:58:45 PM	9/24/2011 13:58	0.041
6420	0.021	0.021	0.022	0.024	1:59:45 PM	9/24/2011 13:59	0.025
6480	0.029	0.029	0.031	0.033	2:00:45 PM	9/24/2011 14:00	0.034
6540	0.03	0.03	0.031	0.034	2:01:45 PM	9/24/2011 14:01	0.034
6600	0.033	0.034	0.035	0.037	2:02:45 PM	9/24/2011 14:02	0.038
6660	0.039	0.04	0.042	0.048	2:03:45 PM	9/24/2011 14:03	0.048
6720	0.051	0.053	0.059	0.072	2:04:45 PM	9/24/2011 14:04	0.074
6780	0.057	0.06	0.066	0.083	2:05:45 PM	9/24/2011 14:05	0.086
6840	0.037	0.038	0.04	0.047	2:06:45 PM	9/24/2011 14:06	0.049
6900	0.029	0.03	0.031	0.033	2:07:45 PM	9/24/2011 14:07	0.034
6960	0.028	0.029	0.029	0.031	2:08:45 PM	9/24/2011 14:08	0.031
7020	0.032	0.033	0.034	0.035	2:09:45 PM	9/24/2011 14:09	0.035
7080	0.031	0.031	0.032	0.033	2:10:45 PM	9/24/2011 14:10	0.033
7140	0.039	0.039	0.041	0.045	2:11:45 PM	9/24/2011 14:11	0.045
7200	0.025	0.026	0.026	0.026	2:12:45 PM	9/24/2011 14:12	0.026
7260	0.036	0.037	0.04	0.046	2:13:45 PM	9/24/2011 14:13	0.046
7320	0.032	0.033	0.034	0.039	2:14:45 PM	9/24/2011 14:14	0.04
7380	0.063	0.065	0.071	0.087	2:15:45 PM	9/24/2011 14:15	0.093
7440	0.047	0.048	0.05	0.054	2:16:45 PM	9/24/2011 14:16	0.055
7500	0.039	0.04	0.041	0.044	2:17:45 PM	9/24/2011 14:17	0.046
7560	0.034	0.035	0.035	0.037	2:18:45 PM	9/24/2011 14:18	0.037
7620	0.033	0.033	0.034	0.035	2:19:45 PM	9/24/2011 14:19	0.035
7680	0.078	0.081	0.086	0.093	2:20:45 PM	9/24/2011 14:20	0.094
7740	0.038	0.039	0.04	0.043	2:21:45 PM	9/24/2011 14:21	0.043
7800	0.025	0.025	0.026	0.027	2:22:45 PM	9/24/2011 14:22	0.028
7860	0.143	0.151	0.17	0.222	2:23:45 PM	9/24/2011 14:23	0.234
7920	0.365	0.388	0.45	0.62	2:24:45 PM	9/24/2011 14:24	0.659
7980	0.149	0.157	0.179	0.24	2:25:45 PM	9/24/2011 14:25	0.253
8040	0.167	0.176	0.2	0.273	2:26:45 PM	9/24/2011 14:26	0.286
8100	0.142	0.148	0.166	0.215	2:27:45 PM	9/24/2011 14:27	0.227
8160	0.068	0.07	0.076	0.094	2:28:45 PM	9/24/2011 14:28	0.098
8220	0.055	0.056	0.06	0.068	2:29:45 PM	9/24/2011 14:29	0.071

8280	0.04	0.041	0.042	0.044	2:30:45 PM	9/24/2011 14:30	0.044
8340	0.051	0.052	0.054	0.058	2:31:45 PM	9/24/2011 14:31	0.058
8400	0.055	0.056	0.06	0.072	2:32:45 PM	9/24/2011 14:32	0.076
8460	0.102	0.108	0.121	0.158	2:33:45 PM	9/24/2011 14:33	0.164
8520	0.065	0.068	0.076	0.099	2:34:45 PM	9/24/2011 14:34	0.104
8580	0.031	0.032	0.035	0.04	2:35:45 PM	9/24/2011 14:35	0.042
8640	0.023	0.023	0.024	0.027	2:36:45 PM	9/24/2011 14:36	0.027
8700	0.033	0.034	0.035	0.038	2:37:45 PM	9/24/2011 14:37	0.038
8760	0.035	0.035	0.036	0.038	2:38:45 PM	9/24/2011 14:38	0.038
8820	0.043	0.043	0.045	0.048	2:39:45 PM	9/24/2011 14:39	0.049
8880	0.038	0.038	0.04	0.043	2:40:45 PM	9/24/2011 14:40	0.044
8940	0.041	0.042	0.044	0.047	2:41:45 PM	9/24/2011 14:41	0.047
9000	0.034	0.035	0.037	0.042	2:42:45 PM	9/24/2011 14:42	0.042
9060	0.034	0.035	0.037	0.042	2:43:45 PM	9/24/2011 14:43	0.043
9120	0.038	0.04	0.042	0.049	2:44:45 PM	9/24/2011 14:44	0.051
9180	0.03	0.031	0.032	0.035	2:45:45 PM	9/24/2011 14:45	0.037
9240	0.036	0.037	0.039	0.043	2:46:45 PM	9/24/2011 14:46	0.044
9300	0.026	0.027	0.027	0.029	2:47:45 PM	9/24/2011 14:47	0.029
9360	0.026	0.026	0.026	0.028	2:48:45 PM	9/24/2011 14:48	0.028
9420	0.029	0.029	0.03	0.032	2:49:45 PM	9/24/2011 14:49	0.032
9480	0.032	0.033	0.035	0.04	2:50:45 PM	9/24/2011 14:50	0.041
9540	0.041	0.042	0.044	0.049	2:51:45 PM	9/24/2011 14:51	0.051
9600	0.035	0.036	0.036	0.039	2:52:45 PM	9/24/2011 14:52	0.039
9660	0.033	0.033	0.034	0.036	2:53:45 PM	9/24/2011 14:53	0.037
9720	0.032	0.032	0.033	0.037	2:54:45 PM	9/24/2011 14:54	0.037
9780	0.034	0.034	0.036	0.04	2:55:45 PM	9/24/2011 14:55	0.04
9840	0.032	0.032	0.033	0.036	2:56:45 PM	9/24/2011 14:56	0.037
9900	0.032	0.032	0.033	0.035	2:57:45 PM	9/24/2011 14:57	0.035
9960	0.026	0.026	0.027	0.027	2:58:45 PM	9/24/2011 14:58	0.027
10020	0.029	0.029	0.03	0.031	2:59:45 PM	9/24/2011 14:59	0.031
10080	0.03	0.03	0.031	0.032	3:00:45 PM	9/24/2011 15:00	0.033
10140	0.033	0.034	0.035	0.036	3:01:45 PM	9/24/2011 15:01	0.037
10200	0.033	0.034	0.035	0.037	3:02:45 PM	9/24/2011 15:02	0.037
10260	0.031	0.031	0.032	0.034	3:03:45 PM	9/24/2011 15:03	0.034
10320	0.031	0.032	0.033	0.034	3:04:45 PM	9/24/2011 15:04	0.034
10380	0.027	0.027	0.028	0.029	3:05:45 PM	9/24/2011 15:05	0.029
10440	0.029	0.029	0.03	0.031	3:06:45 PM	9/24/2011 15:06	0.031
10500	0.028	0.028	0.028	0.029	3:07:45 PM	9/24/2011 15:07	0.029
10560	0.026	0.027	0.027	0.027	3:08:45 PM	9/24/2011 15:08	0.027
10620	0.028	0.028	0.029	0.03	3:09:45 PM	9/24/2011 15:09	0.03
10680	0.046	0.047	0.05	0.059	3:10:45 PM	9/24/2011 15:10	0.059
10740	0.059	0.06	0.063	0.068	3:11:45 PM	9/24/2011 15:11	0.069
10800	0.039	0.04	0.042	0.048	3:12:45 PM	9/24/2011 15:12	0.05
10860	0.022	0.023	0.024	0.027	3:13:45 PM	9/24/2011 15:13	0.027
10920	0.013	0.013	0.013	0.014	3:14:45 PM	9/24/2011 15:14	0.014
10980	0.015	0.016	0.016	0.018	3:15:45 PM	9/24/2011 15:15	0.018
11040	0.018	0.019	0.019	0.022	3:16:45 PM	9/24/2011 15:16	0.023
11100	0.02	0.02	0.02	0.022	3:17:45 PM	9/24/2011 15:17	0.022
11160	0.024	0.025	0.025	0.027	3:18:45 PM	9/24/2011 15:18	0.027
11220	0.029	0.029	0.03	0.031	3:19:45 PM	9/24/2011 15:19	0.031
11280	0.029	0.03	0.03	0.031	3:20:45 PM	9/24/2011 15:20	0.032
11340	0.021	0.021	0.022	0.024	3:21:45 PM	9/24/2011 15:21	0.025
11400	0.016	0.017	0.017	0.017	3:22:45 PM	9/24/2011 15:22	0.018
11460	0.017	0.017	0.017	0.019	3:23:45 PM	9/24/2011 15:23	0.019
11520	0.028	0.029	0.032	0.039	3:24:45 PM	9/24/2011 15:24	0.04
11580	0.033	0.034	0.037	0.048	3:25:45 PM	9/24/2011 15:25	0.051
11640	0.031	0.033	0.037	0.045	3:26:45 PM	9/24/2011 15:26	0.048
11700	0.024	0.025	0.027	0.03	3:27:45 PM	9/24/2011 15:27	0.031
11760	0.017	0.017	0.018	0.02	3:28:45 PM	9/24/2011 15:28	0.02
11820	0.017	0.017	0.017	0.018	3:29:45 PM	9/24/2011 15:29	0.018
11880	0.017	0.017	0.017	0.018	3:30:45 PM	9/24/2011 15:30	0.018
11940	0.017	0.017	0.017	0.018	3:31:45 PM	9/24/2011 15:31	0.018
12000	0.017	0.017	0.018	0.018	3:32:45 PM	9/24/2011 15:32	0.018
12060	0.028	0.029	0.029	0.03	3:33:45 PM	9/24/2011 15:33	0.03
12120	0.02	0.02	0.02	0.02	3:34:45 PM	9/24/2011 15:34	0.02
12180	0.023	0.023	0.024	0.024	3:35:45 PM	9/24/2011 15:35	0.024
12240	0.024	0.025	0.025	0.027	3:36:45 PM	9/24/2011 15:36	0.028
12300	0.025	0.026	0.027	0.029	3:37:45 PM	9/24/2011 15:37	0.029
12360	0.024	0.024	0.025	0.026	3:38:45 PM	9/24/2011 15:38	0.026
12420	0.02	0.021	0.021	0.021	3:39:45 PM	9/24/2011 15:39	0.021
12480	0.022	0.022	0.022	0.023	3:40:45 PM	9/24/2011 15:40	0.023
12540	0.024	0.024	0.024	0.025	3:41:45 PM	9/24/2011 15:41	0.025
12600	0.023	0.023	0.024	0.024	3:42:45 PM	9/24/2011 15:42	0.024
12660	0.024	0.024	0.024	0.024	3:43:45 PM	9/24/2011 15:43	0.024
12720	0.029	0.029	0.031	0.035	3:44:45 PM	9/24/2011 15:44	0.035
12780	0.165	0.166	0.167	0.169	3:45:45 PM	9/24/2011 15:45	0.171
12840	0.03	0.03	0.031	0.034	3:46:45 PM	9/24/2011 15:46	0.034
12900	0.027	0.027	0.028	0.03	3:47:45 PM	9/24/2011 15:47	0.03
12960	0.027	0.027	0.027	0.028	3:48:45 PM	9/24/2011 15:48	0.028
13020	0.028	0.028	0.029	0.03	3:49:45 PM	9/24/2011 15:49	0.03
13080	0.029	0.029	0.029	0.03	3:50:45 PM	9/24/2011 15:50	0.03
13140	0.032	0.032	0.033	0.033	3:51:45 PM	9/24/2011 15:51	0.034
13200	0.032	0.032	0.032	0.033	3:52:45 PM	9/24/2011 15:52	0.033
13260	0.027	0.027	0.027	0.028	3:53:45 PM	9/24/2011 15:53	0.028
13320	0.027	0.027	0.027	0.027	3:54:45 PM	9/24/2011 15:54	0.027
13380	0.028	0.028	0.029	0.03	3:55:45 PM	9/24/2011 15:55	0.031
13440	0.033	0.034	0.035	0.038	3:56:45 PM	9/24/2011 15:56	0.039

13500	0.033	0.034	0.035	0.037	3:57:45 PM	9/24/2011 15:57	0.037
13560	0.029	0.03	0.031	0.034	3:58:45 PM	9/24/2011 15:58	0.034
13620	0.023	0.023	0.024	0.024	3:59:45 PM	9/24/2011 15:59	0.025
13680	0.023	0.023	0.024	0.024	4:00:45 PM	9/24/2011 16:00	0.024
13740	0.025	0.025	0.026	0.027	4:01:45 PM	9/24/2011 16:01	0.027
13800	0.044	0.045	0.047	0.053	4:02:45 PM	9/24/2011 16:02	0.055
13860	0.047	0.049	0.054	0.065	4:03:45 PM	9/24/2011 16:03	0.066
13920	0.057	0.06	0.066	0.08	4:04:45 PM	9/24/2011 16:04	0.081
13980	0.069	0.072	0.078	0.095	4:05:45 PM	9/24/2011 16:05	0.097
14040	0.092	0.096	0.107	0.137	4:06:45 PM	9/24/2011 16:06	0.141
14100	0.085	0.089	0.099	0.127	4:07:45 PM	9/24/2011 16:07	0.132
14160	0.084	0.087	0.097	0.124	4:08:45 PM	9/24/2011 16:08	0.13
14220	0.074	0.077	0.085	0.107	4:09:45 PM	9/24/2011 16:09	0.111
14280	0.051	0.052	0.055	0.064	4:10:45 PM	9/24/2011 16:10	0.065
14340	0.05	0.051	0.055	0.067	4:11:45 PM	9/24/2011 16:11	0.068
14400	0.059	0.062	0.068	0.081	4:12:45 PM	9/24/2011 16:12	0.082
14460	0.067	0.071	0.078	0.096	4:13:45 PM	9/24/2011 16:13	0.097
14520	0.059	0.062	0.068	0.08	4:14:45 PM	9/24/2011 16:14	0.08
14580	0.045	0.046	0.05	0.057	4:15:45 PM	9/24/2011 16:15	0.057
14640	0.038	0.039	0.042	0.048	4:16:45 PM	9/24/2011 16:16	0.048
14700	0.037	0.039	0.041	0.046	4:17:45 PM	9/24/2011 16:17	0.046
14760	0.043	0.044	0.046	0.052	4:18:45 PM	9/24/2011 16:18	0.053
14820	0.033	0.033	0.034	0.035	4:19:45 PM	9/24/2011 16:19	0.035
14880	0.04	0.041	0.042	0.045	4:20:45 PM	9/24/2011 16:20	0.045
14940	0.029	0.03	0.03	0.031	4:21:45 PM	9/24/2011 16:21	0.031
15000	0.034	0.034	0.036	0.038	4:22:45 PM	9/24/2011 16:22	0.038
15060	0.033	0.033	0.035	0.037	4:23:45 PM	9/24/2011 16:23	0.038
15120	0.037	0.038	0.039	0.043	4:24:45 PM	9/24/2011 16:24	0.043
15180	0.032	0.032	0.033	0.034	4:25:45 PM	9/24/2011 16:25	0.034
15240	0.034	0.034	0.035	0.036	4:26:45 PM	9/24/2011 16:26	0.036
15300	0.034	0.034	0.035	0.037	4:27:45 PM	9/24/2011 16:27	0.037
15360	0.032	0.032	0.033	0.034	4:28:45 PM	9/24/2011 16:28	0.034
15420	0.03	0.03	0.03	0.031	4:29:45 PM	9/24/2011 16:29	0.031
15480	0.03	0.03	0.031	0.031	4:30:45 PM	9/24/2011 16:30	0.031
15540	0.032	0.032	0.032	0.033	4:31:45 PM	9/24/2011 16:31	0.033
15600	0.033	0.034	0.034	0.035	4:32:45 PM	9/24/2011 16:32	0.035
15660	0.032	0.032	0.033	0.034	4:33:45 PM	9/24/2011 16:33	0.034
15720	0.032	0.032	0.033	0.034	4:34:45 PM	9/24/2011 16:34	0.034
15780	0.029	0.03	0.03	0.031	4:35:45 PM	9/24/2011 16:35	0.031
15840	0.03	0.03	0.031	0.032	4:36:45 PM	9/24/2011 16:36	0.032
15900	0.031	0.031	0.031	0.032	4:37:45 PM	9/24/2011 16:37	0.032
15960	0.028	0.029	0.029	0.03	4:38:45 PM	9/24/2011 16:38	0.03
16020	0.027	0.028	0.028	0.028	4:39:45 PM	9/24/2011 16:39	0.029
16080	0.034	0.035	0.037	0.039	4:40:45 PM	9/24/2011 16:40	0.039
16140	0.03	0.031	0.032	0.034	4:41:45 PM	9/24/2011 16:41	0.034
16200	0.033	0.033	0.034	0.036	4:42:45 PM	9/24/2011 16:42	0.037
16260	0.028	0.028	0.029	0.03	4:43:45 PM	9/24/2011 16:43	0.03
16320	0.029	0.029	0.03	0.031	4:44:45 PM	9/24/2011 16:44	0.031
16380	0.033	0.034	0.035	0.036	4:45:45 PM	9/24/2011 16:45	0.036

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_008
Test Start Time	7:23:46 AM
Test Start Date	9/25/2011
Test Length [D:H:M]	0:11:15
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.021
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.201
PM1 TWA [mg/m3]	0.016
PM2.5 Average [mg/m3]	0.021
PM2.5 Minimum [mg/m3]	0.008
PM2.5 Maximum [mg/m3]	0.204
PM2.5 TWA [mg/m3]	0.016
PM4 Average [mg/m3]	0.022
PM4 Minimum [mg/m3]	0.008
PM4 Maximum [mg/m3]	0.209
PM4 TWA [mg/m3]	0.017
PM10 Average [mg/m3]	0.023
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	0.266
PM10 TWA [mg/m3]	0.018
TOTAL Average [mg/m3]	0.024
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	0.274
TOTAL TWA [mg/m3]	0.018
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	675



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:23:46 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.06	0.061	0.062	0.071	7:24:46 AM	9/25/2011 7:24	0.076		
120	0.049	0.049	0.05	0.051	7:25:46 AM	9/25/2011 7:25	0.051		
180	0.037	0.037	0.038	0.04	7:26:46 AM	9/25/2011 7:26	0.04		
240	0.034	0.034	0.035	0.036	7:27:46 AM	9/25/2011 7:27	0.036		
300	0.038	0.039	0.04	0.041	7:28:46 AM	9/25/2011 7:28	0.041		
360	0.032	0.033	0.033	0.034	7:29:46 AM	9/25/2011 7:29	0.034		
420	0.035	0.035	0.036	0.038	7:30:46 AM	9/25/2011 7:30	0.039		
480	0.029	0.03	0.03	0.031	7:31:46 AM	9/25/2011 7:31	0.031		
540	0.029	0.029	0.03	0.031	7:32:46 AM	9/25/2011 7:32	0.031		
600	0.027	0.027	0.028	0.028	7:33:46 AM	9/25/2011 7:33	0.029		
660	0.031	0.031	0.032	0.034	7:34:46 AM	9/25/2011 7:34	0.034		
720	0.046	0.047	0.048	0.051	7:35:46 AM	9/25/2011 7:35	0.052		
780	0.026	0.026	0.026	0.027	7:36:46 AM	9/25/2011 7:36	0.027		
840	0.024	0.025	0.025	0.026	7:37:46 AM	9/25/2011 7:37	0.026		
900	0.022	0.023	0.023	0.023	7:38:46 AM	9/25/2011 7:38	0.023		
960	0.023	0.023	0.024	0.024	7:39:46 AM	9/25/2011 7:39	0.025		
1020	0.023	0.023	0.024	0.024	7:40:46 AM	9/25/2011 7:40	0.024		
1080	0.022	0.022	0.022	0.023	7:41:46 AM	9/25/2011 7:41	0.023		
1140	0.023	0.023	0.023	0.024	7:42:46 AM	9/25/2011 7:42	0.024		
1200	0.022	0.022	0.023	0.023	7:43:46 AM	9/25/2011 7:43	0.023		
1260	0.021	0.021	0.022	0.022	7:44:46 AM	9/25/2011 7:44	0.022		
1320	0.021	0.021	0.022	0.022	7:45:46 AM	9/25/2011 7:45	0.022		
1380	0.021	0.021	0.021	0.022	7:46:46 AM	9/25/2011 7:46	0.022		
1440	0.021	0.022	0.022	0.023	7:47:46 AM	9/25/2011 7:47	0.023		
1500	0.022	0.022	0.022	0.023	7:48:46 AM	9/25/2011 7:48	0.024		
1560	0.021	0.021	0.022	0.023	7:49:46 AM	9/25/2011 7:49	0.023		
1620	0.02	0.02	0.02	0.021	7:50:46 AM	9/25/2011 7:50	0.021		
1680	0.021	0.021	0.021	0.022	7:51:46 AM	9/25/2011 7:51	0.023		
1740	0.022	0.022	0.023	0.023	7:52:46 AM	9/25/2011 7:52	0.023		
1800	0.022	0.023	0.023	0.024	7:53:46 AM	9/25/2011 7:53	0.024		
1860	0.021	0.021	0.021	0.023	7:54:46 AM	9/25/2011 7:54	0.025		
1920	0.02	0.02	0.021	0.021	7:55:46 AM	9/25/2011 7:55	0.021		
1980	0.02	0.021	0.021	0.022	7:56:46 AM	9/25/2011 7:56	0.022		
2040	0.02	0.02	0.021	0.021	7:57:46 AM	9/25/2011 7:57	0.021		
2100	0.022	0.022	0.023	0.023	7:58:46 AM	9/25/2011 7:58	0.023		
2160	0.026	0.026	0.026	0.027	7:59:46 AM	9/25/2011 7:59	0.027		
2220	0.027	0.028	0.028	0.03	8:00:46 AM	9/25/2011 8:00	0.03		
2280	0.028	0.028	0.029	0.03	8:01:46 AM	9/25/2011 8:01	0.031		
2340	0.021	0.021	0.022	0.023	8:02:46 AM	9/25/2011 8:02	0.023		
2400	0.022	0.023	0.023	0.024	8:03:46 AM	9/25/2011 8:03	0.024		
2460	0.023	0.024	0.024	0.027	8:04:46 AM	9/25/2011 8:04	0.028		
2520	0.02	0.02	0.02	0.021	8:05:46 AM	9/25/2011 8:05	0.021		
2580	0.02	0.02	0.02	0.021	8:06:46 AM	9/25/2011 8:06	0.021		
2640	0.02	0.02	0.021	0.021	8:07:46 AM	9/25/2011 8:07	0.022		
2700	0.02	0.021	0.021	0.022	8:08:46 AM	9/25/2011 8:08	0.022		
2760	0.019	0.019	0.019	0.02	8:09:46 AM	9/25/2011 8:09	0.02		
2820	0.019	0.019	0.02	0.021	8:10:46 AM	9/25/2011 8:10	0.021		
2880	0.02	0.02	0.021	0.021	8:11:46 AM	9/25/2011 8:11	0.021		
2940	0.022	0.023	0.023	0.024	8:12:46 AM	9/25/2011 8:12	0.024		
3000	0.02	0.021	0.021	0.022	8:13:46 AM	9/25/2011 8:13	0.022		

3060	0.033	0.035	0.036	0.037	8:14:46 AM	9/25/2011 8:14	0.037
3120	0.028	0.029	0.031	0.033	8:15:46 AM	9/25/2011 8:15	0.034
3180	0.018	0.019	0.019	0.02	8:16:46 AM	9/25/2011 8:16	0.02
3240	0.019	0.019	0.02	0.021	8:17:46 AM	9/25/2011 8:17	0.021
3300	0.018	0.018	0.019	0.019	8:18:46 AM	9/25/2011 8:18	0.019
3360	0.018	0.018	0.019	0.019	8:19:46 AM	9/25/2011 8:19	0.019
3420	0.018	0.018	0.018	0.019	8:20:46 AM	9/25/2011 8:20	0.019
3480	0.018	0.019	0.019	0.02	8:21:46 AM	9/25/2011 8:21	0.021
3540	0.018	0.018	0.019	0.02	8:22:46 AM	9/25/2011 8:22	0.02
3600	0.017	0.017	0.018	0.019	8:23:46 AM	9/25/2011 8:23	0.019
3660	0.017	0.017	0.018	0.018	8:24:46 AM	9/25/2011 8:24	0.018
3720	0.017	0.017	0.018	0.019	8:25:46 AM	9/25/2011 8:25	0.019
3780	0.017	0.017	0.018	0.019	8:26:46 AM	9/25/2011 8:26	0.019
3840	0.017	0.018	0.018	0.018	8:27:46 AM	9/25/2011 8:27	0.018
3900	0.017	0.017	0.018	0.019	8:28:46 AM	9/25/2011 8:28	0.019
3960	0.016	0.017	0.017	0.018	8:29:46 AM	9/25/2011 8:29	0.018
4020	0.016	0.016	0.017	0.017	8:30:46 AM	9/25/2011 8:30	0.017
4080	0.016	0.017	0.017	0.018	8:31:46 AM	9/25/2011 8:31	0.018
4140	0.018	0.018	0.018	0.019	8:32:46 AM	9/25/2011 8:32	0.019
4200	0.017	0.018	0.018	0.019	8:33:46 AM	9/25/2011 8:33	0.019
4260	0.017	0.017	0.018	0.018	8:34:46 AM	9/25/2011 8:34	0.018
4320	0.018	0.018	0.019	0.02	8:35:46 AM	9/25/2011 8:35	0.02
4380	0.017	0.017	0.018	0.018	8:36:46 AM	9/25/2011 8:36	0.018
4440	0.018	0.018	0.019	0.02	8:37:46 AM	9/25/2011 8:37	0.021
4500	0.017	0.018	0.018	0.019	8:38:46 AM	9/25/2011 8:38	0.019
4560	0.016	0.016	0.017	0.017	8:39:46 AM	9/25/2011 8:39	0.017
4620	0.017	0.017	0.018	0.019	8:40:46 AM	9/25/2011 8:40	0.019
4680	0.017	0.017	0.018	0.019	8:41:46 AM	9/25/2011 8:41	0.019
4740	0.017	0.017	0.018	0.018	8:42:46 AM	9/25/2011 8:42	0.018
4800	0.017	0.017	0.018	0.019	8:43:46 AM	9/25/2011 8:43	0.019
4860	0.017	0.017	0.018	0.018	8:44:46 AM	9/25/2011 8:44	0.019
4920	0.014	0.014	0.014	0.015	8:45:46 AM	9/25/2011 8:45	0.015
4980	0.013	0.014	0.014	0.014	8:46:46 AM	9/25/2011 8:46	0.014
5040	0.013	0.013	0.014	0.014	8:47:46 AM	9/25/2011 8:47	0.014
5100	0.013	0.013	0.014	0.014	8:48:46 AM	9/25/2011 8:48	0.015
5160	0.012	0.012	0.013	0.014	8:49:46 AM	9/25/2011 8:49	0.014
5220	0.013	0.013	0.013	0.014	8:50:46 AM	9/25/2011 8:50	0.014
5280	0.013	0.013	0.013	0.014	8:51:46 AM	9/25/2011 8:51	0.014
5340	0.013	0.013	0.013	0.014	8:52:46 AM	9/25/2011 8:52	0.014
5400	0.012	0.012	0.013	0.013	8:53:46 AM	9/25/2011 8:53	0.013
5460	0.012	0.013	0.013	0.014	8:54:46 AM	9/25/2011 8:54	0.014
5520	0.012	0.013	0.013	0.014	8:55:46 AM	9/25/2011 8:55	0.014
5580	0.012	0.013	0.013	0.014	8:56:46 AM	9/25/2011 8:56	0.014
5640	0.012	0.012	0.013	0.013	8:57:46 AM	9/25/2011 8:57	0.013
5700	0.012	0.012	0.012	0.013	8:58:46 AM	9/25/2011 8:58	0.013
5760	0.013	0.013	0.013	0.014	8:59:46 AM	9/25/2011 8:59	0.015
5820	0.012	0.013	0.013	0.014	9:00:46 AM	9/25/2011 9:00	0.014
5880	0.013	0.013	0.014	0.014	9:01:46 AM	9/25/2011 9:01	0.014
5940	0.014	0.014	0.015	0.015	9:02:46 AM	9/25/2011 9:02	0.015
6000	0.015	0.015	0.015	0.016	9:03:46 AM	9/25/2011 9:03	0.016
6060	0.012	0.012	0.013	0.013	9:04:46 AM	9/25/2011 9:04	0.013
6120	0.013	0.014	0.014	0.015	9:05:46 AM	9/25/2011 9:05	0.015
6180	0.015	0.016	0.016	0.018	9:06:46 AM	9/25/2011 9:06	0.018
6240	0.012	0.013	0.013	0.014	9:07:46 AM	9/25/2011 9:07	0.014
6300	0.012	0.013	0.013	0.014	9:08:46 AM	9/25/2011 9:08	0.014
6360	0.014	0.014	0.015	0.016	9:09:46 AM	9/25/2011 9:09	0.016
6420	0.014	0.015	0.015	0.016	9:10:46 AM	9/25/2011 9:10	0.017
6480	0.013	0.013	0.014	0.014	9:11:46 AM	9/25/2011 9:11	0.014
6540	0.013	0.013	0.014	0.015	9:12:46 AM	9/25/2011 9:12	0.015
6600	0.014	0.014	0.015	0.015	9:13:46 AM	9/25/2011 9:13	0.015
6660	0.013	0.013	0.014	0.014	9:14:46 AM	9/25/2011 9:14	0.014
6720	0.014	0.014	0.015	0.015	9:15:46 AM	9/25/2011 9:15	0.015
6780	0.014	0.014	0.015	0.015	9:16:46 AM	9/25/2011 9:16	0.015
6840	0.014	0.014	0.015	0.015	9:17:46 AM	9/25/2011 9:17	0.015
6900	0.014	0.014	0.014	0.015	9:18:46 AM	9/25/2011 9:18	0.015
6960	0.015	0.015	0.016	0.017	9:19:46 AM	9/25/2011 9:19	0.017
7020	0.015	0.015	0.015	0.016	9:20:46 AM	9/25/2011 9:20	0.016
7080	0.019	0.019	0.02	0.021	9:21:46 AM	9/25/2011 9:21	0.022
7140	0.02	0.02	0.021	0.022	9:22:46 AM	9/25/2011 9:22	0.022
7200	0.018	0.018	0.019	0.02	9:23:46 AM	9/25/2011 9:23	0.02
7260	0.017	0.018	0.018	0.019	9:24:46 AM	9/25/2011 9:24	0.019
7320	0.018	0.018	0.019	0.019	9:25:46 AM	9/25/2011 9:25	0.019
7380	0.02	0.02	0.02	0.021	9:26:46 AM	9/25/2011 9:26	0.021
7440	0.027	0.028	0.028	0.03	9:27:46 AM	9/25/2011 9:27	0.03
7500	0.018	0.018	0.018	0.019	9:28:46 AM	9/25/2011 9:28	0.02
7560	0.018	0.018	0.019	0.019	9:29:46 AM	9/25/2011 9:29	0.019
7620	0.019	0.019	0.02	0.02	9:30:46 AM	9/25/2011 9:30	0.02
7680	0.017	0.018	0.018	0.019	9:31:46 AM	9/25/2011 9:31	0.019
7740	0.015	0.015	0.016	0.016	9:32:46 AM	9/25/2011 9:32	0.016
7800	0.016	0.016	0.017	0.017	9:33:46 AM	9/25/2011 9:33	0.017
7860	0.016	0.017	0.017	0.018	9:34:46 AM	9/25/2011 9:34	0.018
7920	0.018	0.018	0.018	0.02	9:35:46 AM	9/25/2011 9:35	0.02
7980	0.016	0.016	0.017	0.018	9:36:46 AM	9/25/2011 9:36	0.018
8040	0.016	0.016	0.016	0.017	9:37:46 AM	9/25/2011 9:37	0.017
8100	0.015	0.015	0.016	0.017	9:38:46 AM	9/25/2011 9:38	0.017
8160	0.016	0.016	0.017	0.017	9:39:46 AM	9/25/2011 9:39	0.017
8220	0.017	0.018	0.018	0.019	9:40:46 AM	9/25/2011 9:40	0.019

8280	0.018	0.018	0.019	0.02	9:41:46 AM	9/25/2011 9:41	0.02
8340	0.018	0.018	0.019	0.02	9:42:46 AM	9/25/2011 9:42	0.02
8400	0.017	0.018	0.018	0.019	9:43:46 AM	9/25/2011 9:43	0.019
8460	0.018	0.018	0.019	0.02	9:44:46 AM	9/25/2011 9:44	0.02
8520	0.017	0.018	0.018	0.019	9:45:46 AM	9/25/2011 9:45	0.019
8580	0.016	0.017	0.017	0.018	9:46:46 AM	9/25/2011 9:46	0.018
8640	0.018	0.018	0.019	0.019	9:47:46 AM	9/25/2011 9:47	0.019
8700	0.018	0.018	0.019	0.019	9:48:46 AM	9/25/2011 9:48	0.019
8760	0.025	0.025	0.027	0.034	9:49:46 AM	9/25/2011 9:49	0.035
8820	0.02	0.02	0.021	0.023	9:50:46 AM	9/25/2011 9:50	0.025
8880	0.018	0.018	0.019	0.02	9:51:46 AM	9/25/2011 9:51	0.02
8940	0.016	0.016	0.017	0.017	9:52:46 AM	9/25/2011 9:52	0.017
9000	0.018	0.018	0.019	0.021	9:53:46 AM	9/25/2011 9:53	0.021
9060	0.017	0.017	0.018	0.018	9:54:46 AM	9/25/2011 9:54	0.018
9120	0.023	0.024	0.026	0.031	9:55:46 AM	9/25/2011 9:55	0.032
9180	0.017	0.017	0.018	0.019	9:56:46 AM	9/25/2011 9:56	0.019
9240	0.018	0.018	0.018	0.019	9:57:46 AM	9/25/2011 9:57	0.019
9300	0.017	0.017	0.018	0.019	9:58:46 AM	9/25/2011 9:58	0.02
9360	0.018	0.018	0.018	0.019	9:59:46 AM	9/25/2011 9:59	0.019
9420	0.018	0.018	0.019	0.019	10:00:46 AM	9/25/2011 10:00	0.019
9480	0.018	0.018	0.019	0.02	10:01:46 AM	9/25/2011 10:01	0.02
9540	0.018	0.019	0.019	0.02	10:02:46 AM	9/25/2011 10:02	0.02
9600	0.018	0.018	0.019	0.019	10:03:46 AM	9/25/2011 10:03	0.019
9660	0.019	0.02	0.02	0.021	10:04:46 AM	9/25/2011 10:04	0.022
9720	0.021	0.022	0.022	0.023	10:05:46 AM	9/25/2011 10:05	0.023
9780	0.024	0.025	0.025	0.026	10:06:46 AM	9/25/2011 10:06	0.026
9840	0.02	0.021	0.021	0.022	10:07:46 AM	9/25/2011 10:07	0.022
9900	0.018	0.018	0.019	0.02	10:08:46 AM	9/25/2011 10:08	0.02
9960	0.015	0.016	0.016	0.017	10:09:46 AM	9/25/2011 10:09	0.017
10020	0.016	0.016	0.017	0.018	10:10:46 AM	9/25/2011 10:10	0.018
10080	0.016	0.016	0.017	0.018	10:11:46 AM	9/25/2011 10:11	0.018
10140	0.017	0.017	0.018	0.019	10:12:46 AM	9/25/2011 10:12	0.019
10200	0.016	0.016	0.017	0.018	10:13:46 AM	9/25/2011 10:13	0.018
10260	0.016	0.016	0.017	0.018	10:14:46 AM	9/25/2011 10:14	0.018
10320	0.016	0.016	0.017	0.017	10:15:46 AM	9/25/2011 10:15	0.017
10380	0.017	0.018	0.018	0.019	10:16:46 AM	9/25/2011 10:16	0.02
10440	0.016	0.017	0.017	0.018	10:17:46 AM	9/25/2011 10:17	0.018
10500	0.018	0.019	0.02	0.021	10:18:46 AM	9/25/2011 10:18	0.021
10560	0.021	0.021	0.022	0.024	10:19:46 AM	9/25/2011 10:19	0.024
10620	0.019	0.019	0.02	0.021	10:20:46 AM	9/25/2011 10:20	0.021
10680	0.017	0.018	0.018	0.019	10:21:46 AM	9/25/2011 10:21	0.019
10740	0.017	0.018	0.018	0.02	10:22:46 AM	9/25/2011 10:22	0.02
10800	0.015	0.016	0.016	0.017	10:23:46 AM	9/25/2011 10:23	0.017
10860	0.015	0.015	0.016	0.017	10:24:46 AM	9/25/2011 10:24	0.017
10920	0.015	0.016	0.016	0.018	10:25:46 AM	9/25/2011 10:25	0.018
10980	0.016	0.017	0.017	0.018	10:26:46 AM	9/25/2011 10:26	0.018
11040	0.017	0.017	0.017	0.018	10:27:46 AM	9/25/2011 10:27	0.018
11100	0.016	0.016	0.017	0.018	10:28:46 AM	9/25/2011 10:28	0.018
11160	0.024	0.024	0.026	0.032	10:29:46 AM	9/25/2011 10:29	0.034
11220	0.017	0.018	0.018	0.02	10:30:46 AM	9/25/2011 10:30	0.02
11280	0.029	0.029	0.03	0.031	10:31:46 AM	9/25/2011 10:31	0.031
11340	0.054	0.056	0.06	0.072	10:32:46 AM	9/25/2011 10:32	0.076
11400	0.024	0.025	0.026	0.029	10:33:46 AM	9/25/2011 10:33	0.03
11460	0.018	0.018	0.019	0.02	10:34:46 AM	9/25/2011 10:34	0.021
11520	0.017	0.018	0.018	0.019	10:35:46 AM	9/25/2011 10:35	0.019
11580	0.016	0.017	0.017	0.018	10:36:46 AM	9/25/2011 10:36	0.018
11640	0.016	0.016	0.016	0.018	10:37:46 AM	9/25/2011 10:37	0.018
11700	0.016	0.016	0.016	0.017	10:38:46 AM	9/25/2011 10:38	0.017
11760	0.016	0.016	0.017	0.018	10:39:46 AM	9/25/2011 10:39	0.018
11820	0.015	0.016	0.016	0.017	10:40:46 AM	9/25/2011 10:40	0.018
11880	0.018	0.019	0.02	0.022	10:41:46 AM	9/25/2011 10:41	0.023
11940	0.022	0.022	0.023	0.025	10:42:46 AM	9/25/2011 10:42	0.026
12000	0.018	0.018	0.019	0.02	10:43:46 AM	9/25/2011 10:43	0.02
12060	0.016	0.016	0.016	0.017	10:44:46 AM	9/25/2011 10:44	0.017
12120	0.014	0.015	0.015	0.015	10:45:46 AM	9/25/2011 10:45	0.015
12180	0.016	0.016	0.016	0.017	10:46:46 AM	9/25/2011 10:46	0.017
12240	0.038	0.038	0.039	0.044	10:47:46 AM	9/25/2011 10:47	0.045
12300	0.054	0.055	0.056	0.061	10:48:46 AM	9/25/2011 10:48	0.063
12360	0.015	0.016	0.017	0.018	10:49:46 AM	9/25/2011 10:49	0.019
12420	0.015	0.015	0.016	0.018	10:50:46 AM	9/25/2011 10:50	0.018
12480	0.014	0.014	0.015	0.016	10:51:46 AM	9/25/2011 10:51	0.016
12540	0.014	0.015	0.015	0.016	10:52:46 AM	9/25/2011 10:52	0.016
12600	0.015	0.015	0.016	0.017	10:53:46 AM	9/25/2011 10:53	0.017
12660	0.015	0.015	0.016	0.017	10:54:46 AM	9/25/2011 10:54	0.017
12720	0.013	0.013	0.014	0.015	10:55:46 AM	9/25/2011 10:55	0.015
12780	0.016	0.017	0.017	0.02	10:56:46 AM	9/25/2011 10:56	0.021
12840	0.016	0.016	0.017	0.018	10:57:46 AM	9/25/2011 10:57	0.018
12900	0.014	0.014	0.015	0.015	10:58:46 AM	9/25/2011 10:58	0.015
12960	0.017	0.017	0.017	0.018	10:59:46 AM	9/25/2011 10:59	0.019
13020	0.019	0.019	0.02	0.02	11:00:46 AM	9/25/2011 11:00	0.021
13080	0.016	0.016	0.017	0.018	11:01:46 AM	9/25/2011 11:01	0.018
13140	0.015	0.015	0.015	0.017	11:02:46 AM	9/25/2011 11:02	0.017
13200	0.015	0.015	0.016	0.017	11:03:46 AM	9/25/2011 11:03	0.017
13260	0.016	0.016	0.017	0.017	11:04:46 AM	9/25/2011 11:04	0.018
13320	0.014	0.014	0.015	0.015	11:05:46 AM	9/25/2011 11:05	0.016
13380	0.015	0.015	0.015	0.017	11:06:46 AM	9/25/2011 11:06	0.017
13440	0.014	0.014	0.015	0.015	11:07:46 AM	9/25/2011 11:07	0.015

13500	0.013	0.013	0.014	0.015	11:08:46 AM	9/25/2011 11:08	0.015
13560	0.012	0.012	0.013	0.013	11:09:46 AM	9/25/2011 11:09	0.013
13620	0.02	0.02	0.021	0.022	11:10:46 AM	9/25/2011 11:10	0.022
13680	0.015	0.016	0.016	0.018	11:11:46 AM	9/25/2011 11:11	0.02
13740	0.013	0.013	0.013	0.015	11:12:46 AM	9/25/2011 11:12	0.015
13800	0.013	0.013	0.013	0.014	11:13:46 AM	9/25/2011 11:13	0.014
13860	0.013	0.013	0.014	0.014	11:14:46 AM	9/25/2011 11:14	0.014
13920	0.013	0.013	0.014	0.016	11:15:46 AM	9/25/2011 11:15	0.016
13980	0.012	0.013	0.013	0.013	11:16:46 AM	9/25/2011 11:16	0.013
14040	0.013	0.013	0.013	0.014	11:17:46 AM	9/25/2011 11:17	0.014
14100	0.012	0.013	0.013	0.014	11:18:46 AM	9/25/2011 11:18	0.014
14160	0.013	0.014	0.014	0.015	11:19:46 AM	9/25/2011 11:19	0.015
14220	0.012	0.013	0.013	0.013	11:20:46 AM	9/25/2011 11:20	0.013
14280	0.012	0.012	0.012	0.013	11:21:46 AM	9/25/2011 11:21	0.013
14340	0.015	0.015	0.016	0.017	11:22:46 AM	9/25/2011 11:22	0.017
14400	0.015	0.015	0.016	0.018	11:23:46 AM	9/25/2011 11:23	0.018
14460	0.014	0.014	0.015	0.015	11:24:46 AM	9/25/2011 11:24	0.015
14520	0.013	0.013	0.014	0.015	11:25:46 AM	9/25/2011 11:25	0.015
14580	0.012	0.012	0.013	0.013	11:26:46 AM	9/25/2011 11:26	0.013
14640	0.013	0.013	0.014	0.015	11:27:46 AM	9/25/2011 11:27	0.015
14700	0.015	0.016	0.016	0.018	11:28:46 AM	9/25/2011 11:28	0.018
14760	0.016	0.017	0.018	0.02	11:29:46 AM	9/25/2011 11:29	0.021
14820	0.015	0.015	0.016	0.019	11:30:46 AM	9/25/2011 11:30	0.019
14880	0.043	0.044	0.046	0.051	11:31:46 AM	9/25/2011 11:31	0.053
14940	0.017	0.017	0.018	0.02	11:32:46 AM	9/25/2011 11:32	0.021
15000	0.014	0.014	0.015	0.016	11:33:46 AM	9/25/2011 11:33	0.016
15060	0.013	0.014	0.014	0.015	11:34:46 AM	9/25/2011 11:34	0.015
15120	0.012	0.013	0.013	0.013	11:35:46 AM	9/25/2011 11:35	0.014
15180	0.034	0.036	0.04	0.052	11:36:46 AM	9/25/2011 11:36	0.057
15240	0.04	0.041	0.044	0.051	11:37:46 AM	9/25/2011 11:37	0.054
15300	0.015	0.016	0.016	0.018	11:38:46 AM	9/25/2011 11:38	0.018
15360	0.012	0.012	0.013	0.013	11:39:46 AM	9/25/2011 11:39	0.013
15420	0.012	0.012	0.013	0.014	11:40:46 AM	9/25/2011 11:40	0.014
15480	0.016	0.017	0.017	0.018	11:41:46 AM	9/25/2011 11:41	0.018
15540	0.013	0.013	0.014	0.014	11:42:46 AM	9/25/2011 11:42	0.014
15600	0.013	0.014	0.014	0.015	11:43:46 AM	9/25/2011 11:43	0.015
15660	0.016	0.016	0.017	0.02	11:44:46 AM	9/25/2011 11:44	0.02
15720	0.017	0.017	0.019	0.023	11:45:46 AM	9/25/2011 11:45	0.024
15780	0.011	0.011	0.012	0.012	11:46:46 AM	9/25/2011 11:46	0.012
15840	0.014	0.014	0.015	0.017	11:47:46 AM	9/25/2011 11:47	0.017
15900	0.012	0.012	0.013	0.013	11:48:46 AM	9/25/2011 11:48	0.013
15960	0.013	0.014	0.014	0.015	11:49:46 AM	9/25/2011 11:49	0.015
16020	0.013	0.013	0.013	0.014	11:50:46 AM	9/25/2011 11:50	0.014
16080	0.012	0.012	0.013	0.014	11:51:46 AM	9/25/2011 11:51	0.014
16140	0.013	0.013	0.013	0.013	11:52:46 AM	9/25/2011 11:52	0.014
16200	0.013	0.013	0.014	0.014	11:53:46 AM	9/25/2011 11:53	0.014
16260	0.013	0.013	0.013	0.014	11:54:46 AM	9/25/2011 11:54	0.014
16320	0.014	0.014	0.014	0.015	11:55:46 AM	9/25/2011 11:55	0.016
16380	0.014	0.014	0.015	0.015	11:56:46 AM	9/25/2011 11:56	0.015
16440	0.014	0.014	0.015	0.015	11:57:46 AM	9/25/2011 11:57	0.015
16500	0.014	0.014	0.015	0.016	11:58:46 AM	9/25/2011 11:58	0.016
16560	0.013	0.013	0.013	0.014	11:59:46 AM	9/25/2011 11:59	0.014
16620	0.014	0.014	0.015	0.017	12:00:46 PM	9/25/2011 12:00	0.018
16680	0.013	0.013	0.013	0.015	12:01:46 PM	9/25/2011 12:01	0.015
16740	0.013	0.013	0.014	0.015	12:02:46 PM	9/25/2011 12:02	0.016
16800	0.011	0.011	0.012	0.012	12:03:46 PM	9/25/2011 12:03	0.012
16860	0.013	0.014	0.014	0.016	12:04:46 PM	9/25/2011 12:04	0.017
16920	0.011	0.012	0.012	0.013	12:05:46 PM	9/25/2011 12:05	0.013
16980	0.012	0.012	0.012	0.012	12:06:46 PM	9/25/2011 12:06	0.012
17040	0.011	0.011	0.012	0.012	12:07:46 PM	9/25/2011 12:07	0.012
17100	0.011	0.011	0.011	0.012	12:08:46 PM	9/25/2011 12:08	0.012
17160	0.011	0.011	0.011	0.012	12:09:46 PM	9/25/2011 12:09	0.012
17220	0.011	0.011	0.011	0.012	12:10:46 PM	9/25/2011 12:10	0.012
17280	0.011	0.011	0.011	0.012	12:11:46 PM	9/25/2011 12:11	0.012
17340	0.011	0.011	0.011	0.012	12:12:46 PM	9/25/2011 12:12	0.012
17400	0.011	0.011	0.011	0.012	12:13:46 PM	9/25/2011 12:13	0.012
17460	0.011	0.012	0.012	0.012	12:14:46 PM	9/25/2011 12:14	0.012
17520	0.011	0.011	0.012	0.013	12:15:46 PM	9/25/2011 12:15	0.013
17580	0.012	0.012	0.012	0.014	12:16:46 PM	9/25/2011 12:16	0.014
17640	0.016	0.016	0.018	0.023	12:17:46 PM	9/25/2011 12:17	0.025
17700	0.011	0.011	0.012	0.013	12:18:46 PM	9/25/2011 12:18	0.013
17760	0.012	0.013	0.013	0.015	12:19:46 PM	9/25/2011 12:19	0.016
17820	0.022	0.022	0.023	0.024	12:20:46 PM	9/25/2011 12:20	0.024
17880	0.012	0.012	0.013	0.013	12:21:46 PM	9/25/2011 12:21	0.013
17940	0.01	0.01	0.01	0.01	12:22:46 PM	9/25/2011 12:22	0.01
18000	0.01	0.01	0.011	0.011	12:23:46 PM	9/25/2011 12:23	0.011
18060	0.01	0.01	0.011	0.011	12:24:46 PM	9/25/2011 12:24	0.011
18120	0.01	0.01	0.01	0.011	12:25:46 PM	9/25/2011 12:25	0.011
18180	0.011	0.011	0.012	0.012	12:26:46 PM	9/25/2011 12:26	0.012
18240	0.014	0.014	0.015	0.017	12:27:46 PM	9/25/2011 12:27	0.017
18300	0.009	0.009	0.01	0.01	12:28:46 PM	9/25/2011 12:28	0.01
18360	0.02	0.02	0.021	0.022	12:29:46 PM	9/25/2011 12:29	0.022
18420	0.011	0.011	0.012	0.012	12:30:46 PM	9/25/2011 12:30	0.012
18480	0.01	0.01	0.01	0.011	12:31:46 PM	9/25/2011 12:31	0.011
18540	0.01	0.01	0.011	0.011	12:32:46 PM	9/25/2011 12:32	0.011
18600	0.01	0.01	0.01	0.011	12:33:46 PM	9/25/2011 12:33	0.011
18660	0.011	0.011	0.011	0.013	12:34:46 PM	9/25/2011 12:34	0.013

18720	0.009	0.01	0.01	0.01	12:35:46 PM	9/25/2011 12:35	0.011
18780	0.01	0.01	0.01	0.011	12:36:46 PM	9/25/2011 12:36	0.011
18840	0.009	0.01	0.01	0.01	12:37:46 PM	9/25/2011 12:37	0.01
18900	0.009	0.009	0.009	0.009	12:38:46 PM	9/25/2011 12:38	0.009
18960	0.009	0.009	0.009	0.009	12:39:46 PM	9/25/2011 12:39	0.009
19020	0.008	0.008	0.008	0.009	12:40:46 PM	9/25/2011 12:40	0.009
19080	0.008	0.009	0.009	0.009	12:41:46 PM	9/25/2011 12:41	0.009
19140	0.009	0.009	0.009	0.01	12:42:46 PM	9/25/2011 12:42	0.01
19200	0.008	0.008	0.009	0.009	12:43:46 PM	9/25/2011 12:43	0.009
19260	0.008	0.009	0.009	0.009	12:44:46 PM	9/25/2011 12:44	0.009
19320	0.01	0.01	0.01	0.011	12:45:46 PM	9/25/2011 12:45	0.011
19380	0.01	0.01	0.01	0.011	12:46:46 PM	9/25/2011 12:46	0.011
19440	0.013	0.014	0.014	0.015	12:47:46 PM	9/25/2011 12:47	0.015
19500	0.012	0.013	0.013	0.014	12:48:46 PM	9/25/2011 12:48	0.014
19560	0.01	0.01	0.01	0.011	12:49:46 PM	9/25/2011 12:49	0.011
19620	0.011	0.011	0.011	0.012	12:50:46 PM	9/25/2011 12:50	0.012
19680	0.01	0.01	0.01	0.011	12:51:46 PM	9/25/2011 12:51	0.011
19740	0.008	0.009	0.009	0.009	12:52:46 PM	9/25/2011 12:52	0.009
19800	0.008	0.008	0.008	0.008	12:53:46 PM	9/25/2011 12:53	0.008
19860	0.008	0.008	0.008	0.009	12:54:46 PM	9/25/2011 12:54	0.009
19920	0.018	0.018	0.019	0.019	12:55:46 PM	9/25/2011 12:55	0.019
19980	0.011	0.011	0.011	0.012	12:56:46 PM	9/25/2011 12:56	0.012
20040	0.01	0.01	0.011	0.011	12:57:46 PM	9/25/2011 12:57	0.011
20100	0.01	0.01	0.01	0.011	12:58:46 PM	9/25/2011 12:58	0.011
20160	0.01	0.01	0.01	0.011	12:59:46 PM	9/25/2011 12:59	0.011
20220	0.01	0.01	0.01	0.011	1:00:46 PM	9/25/2011 13:00	0.011
20280	0.01	0.01	0.011	0.011	1:01:46 PM	9/25/2011 13:01	0.011
20340	0.01	0.01	0.01	0.01	1:02:46 PM	9/25/2011 13:02	0.01
20400	0.009	0.009	0.01	0.01	1:03:46 PM	9/25/2011 13:03	0.01
20460	0.01	0.01	0.01	0.011	1:04:46 PM	9/25/2011 13:04	0.011
20520	0.011	0.011	0.011	0.012	1:05:46 PM	9/25/2011 13:05	0.012
20580	0.01	0.01	0.011	0.011	1:06:46 PM	9/25/2011 13:06	0.012
20640	0.011	0.012	0.013	0.015	1:07:46 PM	9/25/2011 13:07	0.015
20700	0.011	0.011	0.011	0.012	1:08:46 PM	9/25/2011 13:08	0.012
20760	0.01	0.01	0.01	0.011	1:09:46 PM	9/25/2011 13:09	0.011
20820	0.009	0.01	0.01	0.01	1:10:46 PM	9/25/2011 13:10	0.01
20880	0.009	0.009	0.01	0.011	1:11:46 PM	9/25/2011 13:11	0.011
20940	0.01	0.01	0.011	0.011	1:12:46 PM	9/25/2011 13:12	0.012
21000	0.01	0.011	0.011	0.012	1:13:46 PM	9/25/2011 13:13	0.012
21060	0.01	0.01	0.011	0.011	1:14:46 PM	9/25/2011 13:14	0.011
21120	0.016	0.017	0.018	0.02	1:15:46 PM	9/25/2011 13:15	0.02
21180	0.014	0.014	0.015	0.016	1:16:46 PM	9/25/2011 13:16	0.017
21240	0.014	0.014	0.015	0.015	1:17:46 PM	9/25/2011 13:17	0.015
21300	0.015	0.016	0.017	0.019	1:18:46 PM	9/25/2011 13:18	0.02
21360	0.013	0.013	0.014	0.015	1:19:46 PM	9/25/2011 13:19	0.015
21420	0.013	0.013	0.014	0.015	1:20:46 PM	9/25/2011 13:20	0.015
21480	0.011	0.011	0.011	0.012	1:21:46 PM	9/25/2011 13:21	0.012
21540	0.018	0.018	0.019	0.021	1:22:46 PM	9/25/2011 13:22	0.022
21600	0.013	0.013	0.014	0.016	1:23:46 PM	9/25/2011 13:23	0.017
21660	0.012	0.012	0.013	0.015	1:24:46 PM	9/25/2011 13:24	0.016
21720	0.011	0.012	0.012	0.013	1:25:46 PM	9/25/2011 13:25	0.013
21780	0.013	0.014	0.014	0.017	1:26:46 PM	9/25/2011 13:26	0.017
21840	0.01	0.01	0.01	0.011	1:27:46 PM	9/25/2011 13:27	0.011
21900	0.008	0.008	0.009	0.009	1:28:46 PM	9/25/2011 13:28	0.009
21960	0.009	0.009	0.01	0.011	1:29:46 PM	9/25/2011 13:29	0.011
22020	0.011	0.011	0.012	0.012	1:30:46 PM	9/25/2011 13:30	0.012
22080	0.011	0.012	0.012	0.013	1:31:46 PM	9/25/2011 13:31	0.013
22140	0.01	0.01	0.011	0.013	1:32:46 PM	9/25/2011 13:32	0.013
22200	0.01	0.01	0.01	0.012	1:33:46 PM	9/25/2011 13:33	0.012
22260	0.009	0.01	0.01	0.011	1:34:46 PM	9/25/2011 13:34	0.011
22320	0.011	0.011	0.012	0.014	1:35:46 PM	9/25/2011 13:35	0.015
22380	0.008	0.009	0.009	0.01	1:36:46 PM	9/25/2011 13:36	0.011
22440	0.009	0.009	0.01	0.011	1:37:46 PM	9/25/2011 13:37	0.011
22500	0.019	0.02	0.022	0.03	1:38:46 PM	9/25/2011 13:38	0.032
22560	0.009	0.009	0.01	0.011	1:39:46 PM	9/25/2011 13:39	0.011
22620	0.015	0.015	0.016	0.021	1:40:46 PM	9/25/2011 13:40	0.022
22680	0.01	0.01	0.011	0.014	1:41:46 PM	9/25/2011 13:41	0.014
22740	0.008	0.008	0.009	0.01	1:42:46 PM	9/25/2011 13:42	0.011
22800	0.007	0.008	0.008	0.008	1:43:46 PM	9/25/2011 13:43	0.008
22860	0.008	0.008	0.008	0.009	1:44:46 PM	9/25/2011 13:44	0.009
22920	0.012	0.012	0.013	0.013	1:45:46 PM	9/25/2011 13:45	0.013
22980	0.009	0.009	0.009	0.01	1:46:46 PM	9/25/2011 13:46	0.01
23040	0.008	0.008	0.008	0.008	1:47:46 PM	9/25/2011 13:47	0.008
23100	0.01	0.01	0.01	0.011	1:48:46 PM	9/25/2011 13:48	0.011
23160	0.008	0.008	0.009	0.009	1:49:46 PM	9/25/2011 13:49	0.009
23220	0.009	0.009	0.009	0.01	1:50:46 PM	9/25/2011 13:50	0.01
23280	0.009	0.009	0.01	0.011	1:51:46 PM	9/25/2011 13:51	0.011
23340	0.009	0.009	0.009	0.01	1:52:46 PM	9/25/2011 13:52	0.01
23400	0.009	0.009	0.01	0.01	1:53:46 PM	9/25/2011 13:53	0.01
23460	0.012	0.012	0.013	0.015	1:54:46 PM	9/25/2011 13:54	0.016
23520	0.009	0.009	0.009	0.009	1:55:46 PM	9/25/2011 13:55	0.009
23580	0.008	0.008	0.008	0.009	1:56:46 PM	9/25/2011 13:56	0.009
23640	0.008	0.009	0.009	0.009	1:57:46 PM	9/25/2011 13:57	0.009
23700	0.008	0.009	0.009	0.009	1:58:46 PM	9/25/2011 13:58	0.009
23760	0.008	0.009	0.009	0.009	1:59:46 PM	9/25/2011 13:59	0.009
23820	0.009	0.009	0.009	0.009	2:00:46 PM	9/25/2011 14:00	0.01
23880	0.009	0.009	0.009	0.01	2:01:46 PM	9/25/2011 14:01	0.01

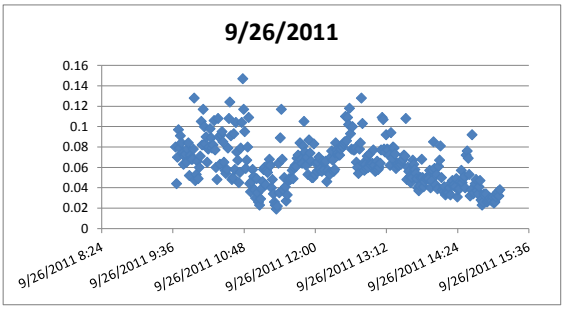
23940	0.009	0.009	0.009	0.01	2:02:46 PM	9/25/2011 14:02	0.01
24000	0.009	0.009	0.009	0.01	2:03:46 PM	9/25/2011 14:03	0.01
24060	0.009	0.009	0.01	0.01	2:04:46 PM	9/25/2011 14:04	0.01
24120	0.008	0.008	0.009	0.009	2:05:46 PM	9/25/2011 14:05	0.009
24180	0.009	0.009	0.009	0.01	2:06:46 PM	9/25/2011 14:06	0.01
24240	0.023	0.024	0.027	0.037	2:07:46 PM	9/25/2011 14:07	0.04
24300	0.012	0.013	0.014	0.016	2:08:46 PM	9/25/2011 14:08	0.017
24360	0.013	0.013	0.014	0.016	2:09:46 PM	9/25/2011 14:09	0.017
24420	0.012	0.012	0.013	0.015	2:10:46 PM	9/25/2011 14:10	0.015
24480	0.015	0.016	0.017	0.022	2:11:46 PM	9/25/2011 14:11	0.023
24540	0.009	0.009	0.009	0.01	2:12:46 PM	9/25/2011 14:12	0.01
24600	0.008	0.008	0.009	0.009	2:13:46 PM	9/25/2011 14:13	0.009
24660	0.009	0.009	0.009	0.009	2:14:46 PM	9/25/2011 14:14	0.009
24720	0.009	0.009	0.009	0.009	2:15:46 PM	9/25/2011 14:15	0.009
24780	0.012	0.013	0.014	0.016	2:16:46 PM	9/25/2011 14:16	0.016
24840	0.011	0.011	0.011	0.013	2:17:46 PM	9/25/2011 14:17	0.013
24900	0.01	0.01	0.01	0.011	2:18:46 PM	9/25/2011 14:18	0.011
24960	0.01	0.01	0.01	0.011	2:19:46 PM	9/25/2011 14:19	0.011
25020	0.009	0.009	0.01	0.01	2:20:46 PM	9/25/2011 14:20	0.011
25080	0.014	0.014	0.015	0.015	2:21:46 PM	9/25/2011 14:21	0.015
25140	0.014	0.014	0.014	0.015	2:22:46 PM	9/25/2011 14:22	0.016
25200	0.013	0.013	0.013	0.014	2:23:46 PM	9/25/2011 14:23	0.014
25260	0.013	0.013	0.014	0.015	2:24:46 PM	9/25/2011 14:24	0.015
25320	0.015	0.015	0.016	0.019	2:25:46 PM	9/25/2011 14:25	0.019
25380	0.013	0.013	0.014	0.016	2:26:46 PM	9/25/2011 14:26	0.016
25440	0.022	0.022	0.023	0.024	2:27:46 PM	9/25/2011 14:27	0.024
25500	0.011	0.011	0.012	0.012	2:28:46 PM	9/25/2011 14:28	0.012
25560	0.015	0.015	0.016	0.017	2:29:46 PM	9/25/2011 14:29	0.018
25620	0.011	0.011	0.011	0.012	2:30:46 PM	9/25/2011 14:30	0.012
25680	0.011	0.011	0.011	0.012	2:31:46 PM	9/25/2011 14:31	0.013
25740	0.013	0.014	0.014	0.016	2:32:46 PM	9/25/2011 14:32	0.016
25800	0.012	0.013	0.013	0.014	2:33:46 PM	9/25/2011 14:33	0.014
25860	0.014	0.014	0.015	0.016	2:34:46 PM	9/25/2011 14:34	0.016
25920	0.018	0.019	0.02	0.023	2:35:46 PM	9/25/2011 14:35	0.023
25980	0.018	0.018	0.019	0.022	2:36:46 PM	9/25/2011 14:36	0.025
26040	0.015	0.015	0.016	0.017	2:37:46 PM	9/25/2011 14:37	0.017
26100	0.015	0.016	0.016	0.017	2:38:46 PM	9/25/2011 14:38	0.018
26160	0.013	0.013	0.013	0.014	2:39:46 PM	9/25/2011 14:39	0.014
26220	0.03	0.032	0.035	0.044	2:40:46 PM	9/25/2011 14:40	0.045
26280	0.047	0.049	0.056	0.076	2:41:46 PM	9/25/2011 14:41	0.08
26340	0.035	0.037	0.041	0.054	2:42:46 PM	9/25/2011 14:42	0.058
26400	0.022	0.023	0.025	0.033	2:43:46 PM	9/25/2011 14:43	0.035
26460	0.02	0.021	0.023	0.03	2:44:46 PM	9/25/2011 14:44	0.031
26520	0.016	0.017	0.018	0.021	2:45:46 PM	9/25/2011 14:45	0.021
26580	0.013	0.013	0.014	0.014	2:46:46 PM	9/25/2011 14:46	0.014
26640	0.017	0.017	0.018	0.019	2:47:46 PM	9/25/2011 14:47	0.019
26700	0.013	0.013	0.014	0.015	2:48:46 PM	9/25/2011 14:48	0.015
26760	0.014	0.015	0.015	0.017	2:49:46 PM	9/25/2011 14:49	0.017
26820	0.019	0.019	0.021	0.024	2:50:46 PM	9/25/2011 14:50	0.024
26880	0.017	0.017	0.018	0.02	2:51:46 PM	9/25/2011 14:51	0.02
26940	0.015	0.015	0.016	0.017	2:52:46 PM	9/25/2011 14:52	0.017
27000	0.015	0.016	0.017	0.02	2:53:46 PM	9/25/2011 14:53	0.02
27060	0.017	0.018	0.019	0.022	2:54:46 PM	9/25/2011 14:54	0.022
27120	0.016	0.017	0.018	0.022	2:55:46 PM	9/25/2011 14:55	0.023
27180	0.016	0.017	0.018	0.021	2:56:46 PM	9/25/2011 14:56	0.021
27240	0.017	0.017	0.018	0.022	2:57:46 PM	9/25/2011 14:57	0.023
27300	0.014	0.014	0.014	0.015	2:58:46 PM	9/25/2011 14:58	0.015
27360	0.014	0.015	0.015	0.016	2:59:46 PM	9/25/2011 14:59	0.016
27420	0.012	0.012	0.012	0.013	3:00:46 PM	9/25/2011 15:00	0.014
27480	0.012	0.012	0.013	0.013	3:01:46 PM	9/25/2011 15:01	0.013
27540	0.018	0.018	0.018	0.018	3:02:46 PM	9/25/2011 15:02	0.019
27600	0.014	0.014	0.014	0.014	3:03:46 PM	9/25/2011 15:03	0.014
27660	0.012	0.013	0.013	0.014	3:04:46 PM	9/25/2011 15:04	0.014
27720	0.015	0.015	0.016	0.018	3:05:46 PM	9/25/2011 15:05	0.019
27780	0.016	0.016	0.017	0.019	3:06:46 PM	9/25/2011 15:06	0.019
27840	0.017	0.017	0.018	0.019	3:07:46 PM	9/25/2011 15:07	0.02
27900	0.016	0.016	0.017	0.018	3:08:46 PM	9/25/2011 15:08	0.018
27960	0.016	0.016	0.017	0.018	3:09:46 PM	9/25/2011 15:09	0.018
28020	0.012	0.012	0.012	0.013	3:10:46 PM	9/25/2011 15:10	0.013
28080	0.011	0.011	0.011	0.011	3:11:46 PM	9/25/2011 15:11	0.011
28140	0.012	0.012	0.012	0.013	3:12:46 PM	9/25/2011 15:12	0.014
28200	0.014	0.015	0.016	0.018	3:13:46 PM	9/25/2011 15:13	0.018
28260	0.016	0.016	0.017	0.019	3:14:46 PM	9/25/2011 15:14	0.019
28320	0.013	0.013	0.014	0.015	3:15:46 PM	9/25/2011 15:15	0.016
28380	0.021	0.021	0.024	0.029	3:16:46 PM	9/25/2011 15:16	0.031
28440	0.022	0.023	0.026	0.035	3:17:46 PM	9/25/2011 15:17	0.037
28500	0.012	0.012	0.013	0.015	3:18:46 PM	9/25/2011 15:18	0.016
28560	0.015	0.015	0.016	0.018	3:19:46 PM	9/25/2011 15:19	0.018
28620	0.013	0.013	0.013	0.014	3:20:46 PM	9/25/2011 15:20	0.014
28680	0.012	0.012	0.012	0.013	3:21:46 PM	9/25/2011 15:21	0.014
28740	0.012	0.012	0.012	0.013	3:22:46 PM	9/25/2011 15:22	0.013
28800	0.012	0.013	0.013	0.014	3:23:46 PM	9/25/2011 15:23	0.014
28860	0.015	0.015	0.016	0.018	3:24:46 PM	9/25/2011 15:24	0.018
28920	0.017	0.017	0.018	0.021	3:25:46 PM	9/25/2011 15:25	0.022
28980	0.019	0.02	0.022	0.028	3:26:46 PM	9/25/2011 15:26	0.029
29040	0.019	0.019	0.021	0.028	3:27:46 PM	9/25/2011 15:27	0.029
29100	0.011	0.011	0.011	0.011	3:28:46 PM	9/25/2011 15:28	0.011

29160	0.011	0.011	0.012	0.012	3:29:46 PM	9/25/2011 15:29	0.012
29220	0.017	0.017	0.018	0.018	3:30:46 PM	9/25/2011 15:30	0.018
29280	0.022	0.022	0.022	0.022	3:31:46 PM	9/25/2011 15:31	0.022
29340	0.025	0.025	0.026	0.027	3:32:46 PM	9/25/2011 15:32	0.027
29400	0.027	0.027	0.028	0.03	3:33:46 PM	9/25/2011 15:33	0.031
29460	0.071	0.073	0.082	0.114	3:34:46 PM	9/25/2011 15:34	0.121
29520	0.042	0.044	0.049	0.065	3:35:46 PM	9/25/2011 15:35	0.069
29580	0.027	0.028	0.03	0.034	3:36:46 PM	9/25/2011 15:36	0.035
29640	0.039	0.041	0.045	0.054	3:37:46 PM	9/25/2011 15:37	0.055
29700	0.03	0.031	0.033	0.038	3:38:46 PM	9/25/2011 15:38	0.038
29760	0.031	0.032	0.035	0.04	3:39:46 PM	9/25/2011 15:39	0.041
29820	0.031	0.032	0.034	0.039	3:40:46 PM	9/25/2011 15:40	0.041
29880	0.025	0.026	0.027	0.029	3:41:46 PM	9/25/2011 15:41	0.029
29940	0.027	0.028	0.029	0.034	3:42:46 PM	9/25/2011 15:42	0.034
30000	0.025	0.026	0.026	0.027	3:43:46 PM	9/25/2011 15:43	0.028
30060	0.026	0.026	0.026	0.028	3:44:46 PM	9/25/2011 15:44	0.029
30120	0.029	0.03	0.031	0.034	3:45:46 PM	9/25/2011 15:45	0.035
30180	0.029	0.03	0.031	0.034	3:46:46 PM	9/25/2011 15:46	0.035
30240	0.029	0.03	0.031	0.033	3:47:46 PM	9/25/2011 15:47	0.033
30300	0.03	0.031	0.031	0.033	3:48:46 PM	9/25/2011 15:48	0.033
30360	0.053	0.054	0.057	0.066	3:49:46 PM	9/25/2011 15:49	0.067
30420	0.047	0.048	0.05	0.055	3:50:46 PM	9/25/2011 15:50	0.056
30480	0.028	0.028	0.028	0.029	3:51:46 PM	9/25/2011 15:51	0.029
30540	0.028	0.028	0.029	0.03	3:52:46 PM	9/25/2011 15:52	0.03
30600	0.026	0.026	0.027	0.027	3:53:46 PM	9/25/2011 15:53	0.027
30660	0.079	0.082	0.092	0.116	3:54:46 PM	9/25/2011 15:54	0.119
30720	0.033	0.034	0.035	0.039	3:55:46 PM	9/25/2011 15:55	0.039
30780	0.029	0.03	0.03	0.031	3:56:46 PM	9/25/2011 15:56	0.032
30840	0.028	0.028	0.028	0.029	3:57:46 PM	9/25/2011 15:57	0.029
30900	0.032	0.032	0.034	0.037	3:58:46 PM	9/25/2011 15:58	0.038
30960	0.041	0.042	0.045	0.058	3:59:46 PM	9/25/2011 15:59	0.059
31020	0.026	0.026	0.027	0.027	4:00:46 PM	9/25/2011 16:00	0.028
31080	0.028	0.028	0.028	0.029	4:01:46 PM	9/25/2011 16:01	0.029
31140	0.031	0.032	0.033	0.036	4:02:46 PM	9/25/2011 16:02	0.038
31200	0.031	0.031	0.032	0.034	4:03:46 PM	9/25/2011 16:03	0.036
31260	0.03	0.03	0.031	0.033	4:04:46 PM	9/25/2011 16:04	0.033
31320	0.028	0.029	0.029	0.03	4:05:46 PM	9/25/2011 16:05	0.03
31380	0.028	0.028	0.029	0.029	4:06:46 PM	9/25/2011 16:06	0.029
31440	0.033	0.034	0.035	0.039	4:07:46 PM	9/25/2011 16:07	0.039
31500	0.027	0.027	0.028	0.028	4:08:46 PM	9/25/2011 16:08	0.028
31560	0.027	0.027	0.028	0.029	4:09:46 PM	9/25/2011 16:09	0.029
31620	0.035	0.036	0.038	0.043	4:10:46 PM	9/25/2011 16:10	0.045
31680	0.029	0.029	0.029	0.03	4:11:46 PM	9/25/2011 16:11	0.031
31740	0.027	0.028	0.028	0.029	4:12:46 PM	9/25/2011 16:12	0.029
31800	0.027	0.027	0.028	0.028	4:13:46 PM	9/25/2011 16:13	0.028
31860	0.034	0.035	0.037	0.04	4:14:46 PM	9/25/2011 16:14	0.041
31920	0.049	0.052	0.056	0.063	4:15:46 PM	9/25/2011 16:15	0.063
31980	0.032	0.032	0.034	0.036	4:16:46 PM	9/25/2011 16:16	0.036
32040	0.033	0.034	0.036	0.039	4:17:46 PM	9/25/2011 16:17	0.04
32100	0.03	0.03	0.032	0.033	4:18:46 PM	9/25/2011 16:18	0.033
32160	0.029	0.03	0.031	0.032	4:19:46 PM	9/25/2011 16:19	0.032
32220	0.028	0.029	0.03	0.031	4:20:46 PM	9/25/2011 16:20	0.031
32280	0.027	0.027	0.028	0.029	4:21:46 PM	9/25/2011 16:21	0.03
32340	0.025	0.026	0.026	0.028	4:22:46 PM	9/25/2011 16:22	0.028
32400	0.026	0.026	0.027	0.028	4:23:46 PM	9/25/2011 16:23	0.028
32460	0.026	0.026	0.027	0.029	4:24:46 PM	9/25/2011 16:24	0.029
32520	0.024	0.024	0.025	0.025	4:25:46 PM	9/25/2011 16:25	0.025
32580	0.025	0.025	0.026	0.027	4:26:46 PM	9/25/2011 16:26	0.027
32640	0.026	0.026	0.027	0.027	4:27:46 PM	9/25/2011 16:27	0.027
32700	0.027	0.027	0.027	0.028	4:28:46 PM	9/25/2011 16:28	0.028
32760	0.026	0.026	0.026	0.027	4:29:46 PM	9/25/2011 16:29	0.027
32820	0.026	0.026	0.026	0.027	4:30:46 PM	9/25/2011 16:30	0.027
32880	0.027	0.028	0.028	0.03	4:31:46 PM	9/25/2011 16:31	0.03
32940	0.028	0.028	0.029	0.031	4:32:46 PM	9/25/2011 16:32	0.031
33000	0.027	0.027	0.028	0.028	4:33:46 PM	9/25/2011 16:33	0.028
33060	0.026	0.026	0.027	0.028	4:34:46 PM	9/25/2011 16:34	0.028
33120	0.026	0.026	0.026	0.027	4:35:46 PM	9/25/2011 16:35	0.027
33180	0.028	0.029	0.029	0.031	4:36:46 PM	9/25/2011 16:36	0.031
33240	0.027	0.027	0.028	0.03	4:37:46 PM	9/25/2011 16:37	0.03
33300	0.031	0.032	0.033	0.035	4:38:46 PM	9/25/2011 16:38	0.036
33360	0.026	0.026	0.026	0.027	4:39:46 PM	9/25/2011 16:39	0.027
33420	0.026	0.026	0.026	0.027	4:40:46 PM	9/25/2011 16:40	0.027
33480	0.026	0.026	0.027	0.028	4:41:46 PM	9/25/2011 16:41	0.028
33540	0.03	0.031	0.032	0.034	4:42:46 PM	9/25/2011 16:42	0.034
33600	0.031	0.031	0.032	0.032	4:43:46 PM	9/25/2011 16:43	0.032
33660	0.03	0.03	0.031	0.032	4:44:46 PM	9/25/2011 16:44	0.032
33720	0.028	0.029	0.029	0.029	4:45:46 PM	9/25/2011 16:45	0.029
33780	0.029	0.029	0.03	0.03	4:46:46 PM	9/25/2011 16:46	0.03
33840	0.029	0.029	0.03	0.03	4:47:46 PM	9/25/2011 16:47	0.03
33900	0.03	0.03	0.03	0.031	4:48:46 PM	9/25/2011 16:48	0.031
33960	0.03	0.031	0.031	0.032	4:49:46 PM	9/25/2011 16:49	0.032
34020	0.03	0.031	0.031	0.033	4:50:46 PM	9/25/2011 16:50	0.034
34080	0.029	0.03	0.03	0.031	4:51:46 PM	9/25/2011 16:51	0.031
34140	0.029	0.029	0.029	0.03	4:52:46 PM	9/25/2011 16:52	0.03
34200	0.028	0.028	0.028	0.029	4:53:46 PM	9/25/2011 16:53	0.029
34260	0.027	0.027	0.028	0.028	4:54:46 PM	9/25/2011 16:54	0.028
34320	0.028	0.028	0.028	0.029	4:55:46 PM	9/25/2011 16:55	0.029

34380	0.029	0.029	0.029	0.03	4:56:46 PM	9/25/2011 16:56	0.03
34440	0.027	0.028	0.028	0.028	4:57:46 PM	9/25/2011 16:57	0.028
34500	0.027	0.027	0.028	0.028	4:58:46 PM	9/25/2011 16:58	0.028
34560	0.027	0.028	0.028	0.029	4:59:46 PM	9/25/2011 16:59	0.029
34620	0.027	0.027	0.028	0.028	5:00:46 PM	9/25/2011 17:00	0.028
34680	0.027	0.027	0.028	0.028	5:01:46 PM	9/25/2011 17:01	0.028
34740	0.027	0.027	0.027	0.028	5:02:46 PM	9/25/2011 17:02	0.028
34800	0.026	0.026	0.026	0.026	5:03:46 PM	9/25/2011 17:03	0.026
34860	0.026	0.026	0.027	0.027	5:04:46 PM	9/25/2011 17:04	0.028
34920	0.026	0.026	0.026	0.027	5:05:46 PM	9/25/2011 17:05	0.027
34980	0.025	0.026	0.026	0.026	5:06:46 PM	9/25/2011 17:06	0.026
35040	0.027	0.027	0.027	0.028	5:07:46 PM	9/25/2011 17:07	0.028
35100	0.028	0.028	0.028	0.029	5:08:46 PM	9/25/2011 17:08	0.029
35160	0.026	0.026	0.026	0.027	5:09:46 PM	9/25/2011 17:09	0.027
35220	0.026	0.026	0.026	0.027	5:10:46 PM	9/25/2011 17:10	0.027
35280	0.025	0.025	0.025	0.026	5:11:46 PM	9/25/2011 17:11	0.026
35340	0.026	0.026	0.026	0.026	5:12:46 PM	9/25/2011 17:12	0.027
35400	0.027	0.027	0.027	0.028	5:13:46 PM	9/25/2011 17:13	0.028
35460	0.027	0.027	0.027	0.027	5:14:46 PM	9/25/2011 17:14	0.027
35520	0.027	0.028	0.028	0.028	5:15:46 PM	9/25/2011 17:15	0.028
35580	0.025	0.025	0.026	0.026	5:16:46 PM	9/25/2011 17:16	0.026
35640	0.027	0.027	0.027	0.027	5:17:46 PM	9/25/2011 17:17	0.027
35700	0.028	0.028	0.029	0.03	5:18:46 PM	9/25/2011 17:18	0.03
35760	0.025	0.025	0.026	0.026	5:19:46 PM	9/25/2011 17:19	0.026
35820	0.026	0.026	0.026	0.026	5:20:46 PM	9/25/2011 17:20	0.026
35880	0.027	0.027	0.027	0.028	5:21:46 PM	9/25/2011 17:21	0.028
35940	0.025	0.025	0.026	0.026	5:22:46 PM	9/25/2011 17:22	0.026
36000	0.028	0.028	0.029	0.029	5:23:46 PM	9/25/2011 17:23	0.029
36060	0.028	0.028	0.028	0.029	5:24:46 PM	9/25/2011 17:24	0.029
36120	0.028	0.028	0.028	0.029	5:25:46 PM	9/25/2011 17:25	0.029
36180	0.028	0.028	0.029	0.029	5:26:46 PM	9/25/2011 17:26	0.029
36240	0.025	0.025	0.025	0.026	5:27:46 PM	9/25/2011 17:27	0.026
36300	0.025	0.025	0.025	0.026	5:28:46 PM	9/25/2011 17:28	0.026
36360	0.026	0.026	0.027	0.027	5:29:46 PM	9/25/2011 17:29	0.027
36420	0.026	0.027	0.028	0.029	5:30:46 PM	9/25/2011 17:30	0.03
36480	0.025	0.025	0.026	0.026	5:31:46 PM	9/25/2011 17:31	0.026
36540	0.025	0.025	0.025	0.026	5:32:46 PM	9/25/2011 17:32	0.026
36600	0.026	0.026	0.026	0.026	5:33:46 PM	9/25/2011 17:33	0.026
36660	0.027	0.027	0.027	0.028	5:34:46 PM	9/25/2011 17:34	0.028
36720	0.025	0.025	0.026	0.026	5:35:46 PM	9/25/2011 17:35	0.026
36780	0.026	0.027	0.027	0.027	5:36:46 PM	9/25/2011 17:36	0.027
36840	0.026	0.026	0.027	0.027	5:37:46 PM	9/25/2011 17:37	0.027
36900	0.027	0.027	0.028	0.028	5:38:46 PM	9/25/2011 17:38	0.028
36960	0.027	0.027	0.027	0.027	5:39:46 PM	9/25/2011 17:39	0.027
37020	0.028	0.028	0.028	0.029	5:40:46 PM	9/25/2011 17:40	0.029
37080	0.026	0.026	0.026	0.027	5:41:46 PM	9/25/2011 17:41	0.027
37140	0.027	0.027	0.027	0.027	5:42:46 PM	9/25/2011 17:42	0.027
37200	0.027	0.027	0.027	0.028	5:43:46 PM	9/25/2011 17:43	0.028
37260	0.032	0.032	0.033	0.036	5:44:46 PM	9/25/2011 17:44	0.036
37320	0.036	0.036	0.038	0.042	5:45:46 PM	9/25/2011 17:45	0.044
37380	0.026	0.026	0.026	0.026	5:46:46 PM	9/25/2011 17:46	0.027
37440	0.026	0.027	0.027	0.027	5:47:46 PM	9/25/2011 17:47	0.028
37500	0.025	0.025	0.026	0.026	5:48:46 PM	9/25/2011 17:48	0.026
37560	0.028	0.028	0.028	0.029	5:49:46 PM	9/25/2011 17:49	0.029
37620	0.029	0.03	0.03	0.031	5:50:46 PM	9/25/2011 17:50	0.031
37680	0.028	0.028	0.029	0.029	5:51:46 PM	9/25/2011 17:51	0.029
37740	0.028	0.028	0.028	0.028	5:52:46 PM	9/25/2011 17:52	0.029
37800	0.028	0.029	0.029	0.03	5:53:46 PM	9/25/2011 17:53	0.03
37860	0.031	0.031	0.031	0.032	5:54:46 PM	9/25/2011 17:54	0.032
37920	0.027	0.027	0.028	0.028	5:55:46 PM	9/25/2011 17:55	0.028
37980	0.029	0.029	0.03	0.03	5:56:46 PM	9/25/2011 17:56	0.03
38040	0.03	0.031	0.031	0.032	5:57:46 PM	9/25/2011 17:57	0.032
38100	0.028	0.028	0.028	0.029	5:58:46 PM	9/25/2011 17:58	0.029
38160	0.027	0.027	0.027	0.028	5:59:46 PM	9/25/2011 17:59	0.028
38220	0.026	0.027	0.027	0.027	6:00:46 PM	9/25/2011 18:00	0.027
38280	0.032	0.032	0.033	0.034	6:01:46 PM	9/25/2011 18:01	0.035
38340	0.031	0.031	0.032	0.034	6:02:46 PM	9/25/2011 18:02	0.034
38400	0.068	0.068	0.069	0.07	6:03:46 PM	9/25/2011 18:03	0.07
38460	0.029	0.029	0.03	0.03	6:04:46 PM	9/25/2011 18:04	0.03
38520	0.026	0.026	0.026	0.027	6:05:46 PM	9/25/2011 18:05	0.027
38580	0.031	0.031	0.031	0.032	6:06:46 PM	9/25/2011 18:06	0.032
38640	0.037	0.037	0.037	0.038	6:07:46 PM	9/25/2011 18:07	0.038
38700	0.028	0.029	0.029	0.029	6:08:46 PM	9/25/2011 18:08	0.029
38760	0.031	0.031	0.031	0.031	6:09:46 PM	9/25/2011 18:09	0.031
38820	0.034	0.034	0.034	0.034	6:10:46 PM	9/25/2011 18:10	0.034
38880	0.042	0.042	0.042	0.042	6:11:46 PM	9/25/2011 18:11	0.043
38940	0.031	0.032	0.032	0.032	6:12:46 PM	9/25/2011 18:12	0.032
39000	0.034	0.035	0.035	0.037	6:13:46 PM	9/25/2011 18:13	0.037
39060	0.201	0.204	0.209	0.224	6:14:46 PM	9/25/2011 18:14	0.228
39120	0.081	0.082	0.086	0.096	6:15:46 PM	9/25/2011 18:15	0.098
39180	0.053	0.054	0.055	0.059	6:16:46 PM	9/25/2011 18:16	0.061
39240	0.031	0.032	0.032	0.033	6:17:46 PM	9/25/2011 18:17	0.033
39300	0.032	0.033	0.033	0.034	6:18:46 PM	9/25/2011 18:18	0.034
39360	0.077	0.079	0.087	0.118	6:19:46 PM	9/25/2011 18:19	0.122
39420	0.06	0.061	0.063	0.073	6:20:46 PM	9/25/2011 18:20	0.075
39480	0.051	0.051	0.053	0.058	6:21:46 PM	9/25/2011 18:21	0.06
39540	0.03	0.03	0.031	0.031	6:22:46 PM	9/25/2011 18:22	0.031

39600	0.029	0.03	0.03	0.03	6:23:46 PM	9/25/2011 18:23	0.031
39660	0.046	0.046	0.047	0.049	6:24:46 PM	9/25/2011 18:24	0.05
39720	0.033	0.033	0.034	0.035	6:25:46 PM	9/25/2011 18:25	0.035
39780	0.032	0.033	0.033	0.034	6:26:46 PM	9/25/2011 18:26	0.034
39840	0.034	0.034	0.035	0.037	6:27:46 PM	9/25/2011 18:27	0.037
39900	0.077	0.079	0.087	0.107	6:28:46 PM	9/25/2011 18:28	0.111
39960	0.048	0.049	0.051	0.057	6:29:46 PM	9/25/2011 18:29	0.057
40020	0.079	0.082	0.089	0.109	6:30:46 PM	9/25/2011 18:30	0.113
40080	0.048	0.049	0.052	0.061	6:31:46 PM	9/25/2011 18:31	0.064
40140	0.039	0.039	0.04	0.042	6:32:46 PM	9/25/2011 18:32	0.042
40200	0.03	0.031	0.031	0.031	6:33:46 PM	9/25/2011 18:33	0.031
40260	0.034	0.034	0.034	0.035	6:34:46 PM	9/25/2011 18:34	0.035
40320	0.033	0.034	0.034	0.034	6:35:46 PM	9/25/2011 18:35	0.034
40380	0.036	0.036	0.037	0.038	6:36:46 PM	9/25/2011 18:36	0.039
40440	0.18	0.188	0.209	0.266	6:37:46 PM	9/25/2011 18:37	0.274
40500	0.061	0.062	0.066	0.076	6:38:46 PM	9/25/2011 18:38	0.078

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_009
Test Start Time	9:37:42 AM
Test Start Date	9/26/2011
Test Length [D:H:M]	0:05:29
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.053
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.12
PM1 TWA [mg/m3]	0.036
PM2.5 Average [mg/m3]	0.054
PM2.5 Minimum [mg/m3]	0.019
PM2.5 Maximum [mg/m3]	0.121
PM2.5 TWA [mg/m3]	0.037
PM4 Average [mg/m3]	0.056
PM4 Minimum [mg/m3]	0.019
PM4 Maximum [mg/m3]	0.123
PM4 TWA [mg/m3]	0.038
PM10 Average [mg/m3]	0.061
PM10 Minimum [mg/m3]	0.019
PM10 Maximum [mg/m3]	0.137
PM10 TWA [mg/m3]	0.042
TOTAL Average [mg/m3]	0.062
TOTAL Minimum [mg/m3]	0.019
TOTAL Maximum [mg/m3]	0.147
TOTAL TWA [mg/m3]	0.043
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	329



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:37:42 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.06	0.062	0.065	0.075	9:38:42 AM	9/26/2011 9:38	0.08		
120	0.038	0.039	0.04	0.044	9:39:42 AM	9/26/2011 9:39	0.044		
180	0.057	0.058	0.061	0.069	9:40:42 AM	9/26/2011 9:40	0.07		
240	0.071	0.073	0.078	0.092	9:41:42 AM	9/26/2011 9:41	0.097		
300	0.057	0.059	0.063	0.075	9:42:42 AM	9/26/2011 9:42	0.079		
360	0.066	0.068	0.073	0.087	9:43:42 AM	9/26/2011 9:43	0.091		
420	0.061	0.063	0.068	0.08	9:44:42 AM	9/26/2011 9:44	0.084		
480	0.054	0.056	0.06	0.071	9:45:42 AM	9/26/2011 9:45	0.074		
540	0.049	0.05	0.053	0.06	9:46:42 AM	9/26/2011 9:46	0.063		
600	0.054	0.055	0.059	0.068	9:47:42 AM	9/26/2011 9:47	0.071		
660	0.056	0.057	0.061	0.07	9:48:42 AM	9/26/2011 9:48	0.073		
720	0.05	0.051	0.054	0.062	9:49:42 AM	9/26/2011 9:49	0.065		
780	0.059	0.061	0.064	0.074	9:50:42 AM	9/26/2011 9:50	0.078		
840	0.064	0.066	0.07	0.081	9:51:42 AM	9/26/2011 9:51	0.084		
900	0.042	0.043	0.045	0.05	9:52:42 AM	9/26/2011 9:52	0.052		
960	0.052	0.054	0.057	0.068	9:53:42 AM	9/26/2011 9:53	0.072		
1020	0.049	0.05	0.053	0.064	9:54:42 AM	9/26/2011 9:54	0.068		
1080	0.048	0.05	0.053	0.064	9:55:42 AM	9/26/2011 9:55	0.068		
1140	0.053	0.055	0.059	0.074	9:56:42 AM	9/26/2011 9:56	0.078		
1200	0.078	0.082	0.091	0.119	9:57:42 AM	9/26/2011 9:57	0.128		
1260	0.037	0.038	0.04	0.046	9:58:42 AM	9/26/2011 9:58	0.047		
1320	0.039	0.04	0.042	0.05	9:59:42 AM	9/26/2011 9:59	0.053		
1380	0.046	0.047	0.051	0.062	10:00:42 AM	9/26/2011 10:00	0.066		
1440	0.039	0.04	0.042	0.047	10:01:42 AM	9/26/2011 10:01	0.049		
1500	0.049	0.05	0.052	0.059	10:02:42 AM	9/26/2011 10:02	0.06		
1560	0.056	0.057	0.06	0.068	10:03:42 AM	9/26/2011 10:03	0.071		
1620	0.075	0.077	0.083	0.1	10:04:42 AM	9/26/2011 10:04	0.105		
1680	0.051	0.053	0.057	0.074	10:05:42 AM	9/26/2011 10:05	0.082		
1740	0.083	0.086	0.092	0.112	10:06:42 AM	9/26/2011 10:06	0.117		
1800	0.075	0.077	0.082	0.097	10:07:42 AM	9/26/2011 10:07	0.1		
1860	0.062	0.064	0.068	0.08	10:08:42 AM	9/26/2011 10:08	0.083		
1920	0.068	0.07	0.075	0.086	10:09:42 AM	9/26/2011 10:09	0.09		
1980	0.049	0.05	0.053	0.062	10:10:42 AM	9/26/2011 10:10	0.065		
2040	0.06	0.061	0.065	0.076	10:11:42 AM	9/26/2011 10:11	0.078		
2100	0.059	0.061	0.064	0.077	10:12:42 AM	9/26/2011 10:12	0.08		
2160	0.073	0.075	0.081	0.095	10:13:42 AM	9/26/2011 10:13	0.098		
2220	0.066	0.068	0.072	0.086	10:14:42 AM	9/26/2011 10:14	0.089		
2280	0.061	0.063	0.067	0.076	10:15:42 AM	9/26/2011 10:15	0.079		
2340	0.06	0.062	0.067	0.079	10:16:42 AM	9/26/2011 10:16	0.082		
2400	0.08	0.082	0.086	0.101	10:17:42 AM	9/26/2011 10:17	0.106		
2460	0.057	0.059	0.063	0.073	10:18:42 AM	9/26/2011 10:18	0.077		
2520	0.048	0.049	0.051	0.058	10:19:42 AM	9/26/2011 10:19	0.06		
2580	0.04	0.04	0.042	0.047	10:20:42 AM	9/26/2011 10:20	0.048		
2640	0.085	0.087	0.092	0.106	10:21:42 AM	9/26/2011 10:21	0.108		
2700	0.068	0.071	0.075	0.087	10:22:42 AM	9/26/2011 10:22	0.09		
2760	0.048	0.049	0.053	0.06	10:23:42 AM	9/26/2011 10:23	0.063		
2820	0.071	0.073	0.076	0.088	10:24:42 AM	9/26/2011 10:24	0.092		
2880	0.07	0.071	0.075	0.089	10:25:42 AM	9/26/2011 10:25	0.095		
2940	0.066	0.067	0.07	0.08	10:26:42 AM	9/26/2011 10:26	0.085		
3000	0.047	0.048	0.052	0.062	10:27:42 AM	9/26/2011 10:27	0.065		

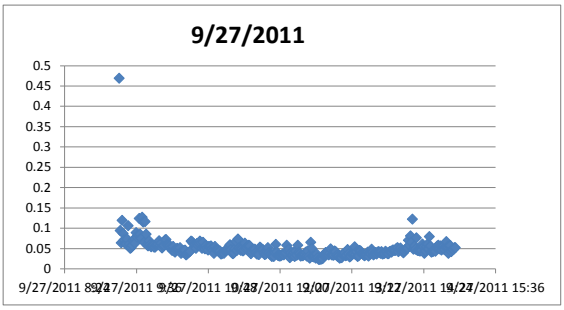
3060	0.043	0.044	0.047	0.055	10:28:42 AM	9/26/2011 10:28	0.057
3120	0.039	0.04	0.042	0.051	10:29:42 AM	9/26/2011 10:29	0.054
3180	0.046	0.047	0.049	0.056	10:30:42 AM	9/26/2011 10:30	0.058
3240	0.063	0.065	0.069	0.078	10:31:42 AM	9/26/2011 10:31	0.079
3300	0.089	0.092	0.096	0.105	10:32:42 AM	9/26/2011 10:32	0.108
3360	0.101	0.105	0.11	0.122	10:33:42 AM	9/26/2011 10:33	0.124
3420	0.073	0.076	0.079	0.088	10:34:42 AM	9/26/2011 10:34	0.091
3480	0.039	0.04	0.042	0.047	10:35:42 AM	9/26/2011 10:35	0.048
3540	0.039	0.04	0.043	0.049	10:36:42 AM	9/26/2011 10:36	0.05
3600	0.061	0.064	0.07	0.09	10:37:42 AM	9/26/2011 10:37	0.093
3660	0.04	0.041	0.045	0.056	10:38:42 AM	9/26/2011 10:38	0.058
3720	0.077	0.08	0.085	0.099	10:39:42 AM	9/26/2011 10:39	0.104
3780	0.062	0.063	0.066	0.071	10:40:42 AM	9/26/2011 10:40	0.075
3840	0.052	0.054	0.056	0.064	10:41:42 AM	9/26/2011 10:41	0.067
3900	0.037	0.038	0.04	0.044	10:42:42 AM	9/26/2011 10:42	0.045
3960	0.044	0.045	0.047	0.054	10:43:42 AM	9/26/2011 10:43	0.055
4020	0.063	0.065	0.069	0.078	10:44:42 AM	9/26/2011 10:44	0.079
4080	0.081	0.083	0.087	0.1	10:45:42 AM	9/26/2011 10:45	0.104
4140	0.098	0.101	0.109	0.137	10:46:42 AM	9/26/2011 10:46	0.147
4200	0.087	0.089	0.094	0.111	10:47:42 AM	9/26/2011 10:47	0.117
4260	0.061	0.064	0.07	0.089	10:48:42 AM	9/26/2011 10:48	0.095
4320	0.043	0.044	0.047	0.055	10:49:42 AM	9/26/2011 10:49	0.059
4380	0.047	0.048	0.051	0.063	10:50:42 AM	9/26/2011 10:50	0.067
4440	0.056	0.058	0.063	0.076	10:51:42 AM	9/26/2011 10:51	0.08
4500	0.081	0.083	0.089	0.104	10:52:42 AM	9/26/2011 10:52	0.109
4560	0.034	0.035	0.038	0.043	10:53:42 AM	9/26/2011 10:53	0.044
4620	0.028	0.029	0.03	0.035	10:54:42 AM	9/26/2011 10:54	0.036
4680	0.035	0.036	0.038	0.043	10:55:42 AM	9/26/2011 10:55	0.046
4740	0.041	0.042	0.045	0.055	10:56:42 AM	9/26/2011 10:56	0.058
4800	0.034	0.035	0.038	0.048	10:57:42 AM	9/26/2011 10:57	0.051
4860	0.03	0.031	0.033	0.038	10:58:42 AM	9/26/2011 10:58	0.038
4920	0.025	0.025	0.027	0.029	10:59:42 AM	9/26/2011 10:59	0.03
4980	0.037	0.038	0.041	0.048	11:00:42 AM	9/26/2011 11:00	0.049
5040	0.03	0.03	0.032	0.035	11:01:42 AM	9/26/2011 11:01	0.035
5100	0.023	0.023	0.024	0.026	11:02:42 AM	9/26/2011 11:02	0.026
5160	0.022	0.022	0.022	0.023	11:03:42 AM	9/26/2011 11:03	0.023
5220	0.025	0.026	0.027	0.029	11:04:42 AM	9/26/2011 11:04	0.029
5280	0.031	0.032	0.033	0.038	11:05:42 AM	9/26/2011 11:05	0.039
5340	0.036	0.037	0.04	0.046	11:06:42 AM	9/26/2011 11:06	0.046
5400	0.043	0.044	0.047	0.056	11:07:42 AM	9/26/2011 11:07	0.058
5460	0.046	0.047	0.05	0.058	11:08:42 AM	9/26/2011 11:08	0.06
5520	0.035	0.036	0.038	0.042	11:09:42 AM	9/26/2011 11:09	0.043
5580	0.042	0.043	0.046	0.055	11:10:42 AM	9/26/2011 11:10	0.057
5640	0.041	0.043	0.047	0.055	11:11:42 AM	9/26/2011 11:11	0.055
5700	0.046	0.049	0.053	0.061	11:12:42 AM	9/26/2011 11:12	0.063
5760	0.052	0.054	0.058	0.067	11:13:42 AM	9/26/2011 11:13	0.068
5820	0.047	0.049	0.052	0.061	11:14:42 AM	9/26/2011 11:14	0.062
5880	0.034	0.035	0.037	0.04	11:15:42 AM	9/26/2011 11:15	0.04
5940	0.039	0.041	0.043	0.048	11:16:42 AM	9/26/2011 11:16	0.048
6000	0.028	0.029	0.03	0.034	11:17:42 AM	9/26/2011 11:17	0.034
6060	0.022	0.022	0.023	0.025	11:18:42 AM	9/26/2011 11:18	0.026
6120	0.021	0.021	0.022	0.023	11:19:42 AM	9/26/2011 11:19	0.023
6180	0.018	0.019	0.019	0.019	11:20:42 AM	9/26/2011 11:20	0.019
6240	0.02	0.02	0.021	0.022	11:21:42 AM	9/26/2011 11:21	0.022
6300	0.045	0.048	0.053	0.063	11:22:42 AM	9/26/2011 11:22	0.064
6360	0.029	0.03	0.031	0.034	11:23:42 AM	9/26/2011 11:23	0.035
6420	0.066	0.068	0.075	0.087	11:24:42 AM	9/26/2011 11:24	0.089
6480	0.077	0.08	0.09	0.112	11:25:42 AM	9/26/2011 11:25	0.117
6540	0.046	0.048	0.053	0.067	11:26:42 AM	9/26/2011 11:26	0.068
6600	0.029	0.029	0.031	0.035	11:27:42 AM	9/26/2011 11:27	0.038
6660	0.035	0.036	0.039	0.047	11:28:42 AM	9/26/2011 11:28	0.05
6720	0.03	0.031	0.033	0.039	11:29:42 AM	9/26/2011 11:29	0.041
6780	0.023	0.023	0.024	0.026	11:30:42 AM	9/26/2011 11:30	0.027
6840	0.028	0.029	0.03	0.032	11:31:42 AM	9/26/2011 11:31	0.033
6900	0.042	0.043	0.044	0.047	11:32:42 AM	9/26/2011 11:32	0.047
6960	0.046	0.046	0.047	0.049	11:33:42 AM	9/26/2011 11:33	0.049
7020	0.046	0.047	0.047	0.048	11:34:42 AM	9/26/2011 11:34	0.048
7080	0.047	0.047	0.048	0.049	11:35:42 AM	9/26/2011 11:35	0.049
7140	0.052	0.053	0.054	0.057	11:36:42 AM	9/26/2011 11:36	0.057
7200	0.046	0.047	0.047	0.049	11:37:42 AM	9/26/2011 11:37	0.049
7260	0.054	0.055	0.056	0.06	11:38:42 AM	9/26/2011 11:38	0.06
7320	0.057	0.057	0.059	0.062	11:39:42 AM	9/26/2011 11:39	0.062
7380	0.057	0.058	0.059	0.06	11:40:42 AM	9/26/2011 11:40	0.061
7440	0.061	0.062	0.064	0.068	11:41:42 AM	9/26/2011 11:41	0.069
7500	0.061	0.063	0.065	0.07	11:42:42 AM	9/26/2011 11:42	0.072
7560	0.058	0.058	0.06	0.064	11:43:42 AM	9/26/2011 11:43	0.066
7620	0.072	0.074	0.077	0.083	11:44:42 AM	9/26/2011 11:44	0.084
7680	0.062	0.063	0.064	0.068	11:45:42 AM	9/26/2011 11:45	0.068
7740	0.058	0.059	0.06	0.063	11:46:42 AM	9/26/2011 11:46	0.064
7800	0.065	0.067	0.07	0.079	11:47:42 AM	9/26/2011 11:47	0.081
7860	0.083	0.086	0.091	0.103	11:48:42 AM	9/26/2011 11:48	0.105
7920	0.065	0.066	0.068	0.074	11:49:42 AM	9/26/2011 11:49	0.075
7980	0.055	0.056	0.058	0.062	11:50:42 AM	9/26/2011 11:50	0.062
8040	0.064	0.065	0.066	0.069	11:51:42 AM	9/26/2011 11:51	0.07
8100	0.052	0.052	0.052	0.053	11:52:42 AM	9/26/2011 11:52	0.053
8160	0.079	0.08	0.082	0.086	11:53:42 AM	9/26/2011 11:53	0.087
8220	0.069	0.069	0.07	0.073	11:54:42 AM	9/26/2011 11:54	0.074

8280	0.062	0.062	0.063	0.065	11:55:42 AM	9/26/2011 11:55	0.066
8340	0.048	0.049	0.049	0.05	11:56:42 AM	9/26/2011 11:56	0.05
8400	0.048	0.048	0.049	0.05	11:57:42 AM	9/26/2011 11:57	0.05
8460	0.067	0.069	0.072	0.082	11:58:42 AM	9/26/2011 11:58	0.083
8520	0.05	0.051	0.051	0.053	11:59:42 AM	9/26/2011 11:59	0.053
8580	0.058	0.058	0.06	0.063	12:00:42 PM	9/26/2011 12:00	0.064
8640	0.052	0.052	0.053	0.055	12:01:42 PM	9/26/2011 12:01	0.056
8700	0.058	0.059	0.06	0.064	12:02:42 PM	9/26/2011 12:02	0.065
8760	0.062	0.063	0.064	0.068	12:03:42 PM	9/26/2011 12:03	0.07
8820	0.053	0.054	0.055	0.057	12:04:42 PM	9/26/2011 12:04	0.057
8880	0.052	0.053	0.054	0.058	12:05:42 PM	9/26/2011 12:05	0.059
8940	0.052	0.053	0.053	0.055	12:06:42 PM	9/26/2011 12:06	0.056
9000	0.057	0.058	0.061	0.065	12:07:42 PM	9/26/2011 12:07	0.066
9060	0.052	0.052	0.054	0.057	12:08:42 PM	9/26/2011 12:08	0.058
9120	0.056	0.058	0.06	0.064	12:09:42 PM	9/26/2011 12:09	0.065
9180	0.056	0.057	0.06	0.066	12:10:42 PM	9/26/2011 12:10	0.066
9240	0.043	0.043	0.044	0.045	12:11:42 PM	9/26/2011 12:11	0.046
9300	0.051	0.052	0.053	0.056	12:12:42 PM	9/26/2011 12:12	0.057
9360	0.047	0.048	0.05	0.054	12:13:42 PM	9/26/2011 12:13	0.054
9420	0.047	0.047	0.049	0.052	12:14:42 PM	9/26/2011 12:14	0.053
9480	0.064	0.065	0.066	0.07	12:15:42 PM	9/26/2011 12:15	0.07
9540	0.068	0.069	0.071	0.074	12:16:42 PM	9/26/2011 12:16	0.076
9600	0.065	0.066	0.066	0.067	12:17:42 PM	9/26/2011 12:17	0.067
9660	0.052	0.052	0.053	0.055	12:18:42 PM	9/26/2011 12:18	0.056
9720	0.055	0.055	0.056	0.058	12:19:42 PM	9/26/2011 12:19	0.058
9780	0.072	0.073	0.075	0.081	12:20:42 PM	9/26/2011 12:20	0.084
9840	0.068	0.069	0.07	0.073	12:21:42 PM	9/26/2011 12:21	0.077
9900	0.072	0.073	0.073	0.074	12:22:42 PM	9/26/2011 12:22	0.074
9960	0.07	0.07	0.071	0.072	12:23:42 PM	9/26/2011 12:23	0.072
10020	0.069	0.07	0.07	0.071	12:24:42 PM	9/26/2011 12:24	0.072
10080	0.076	0.076	0.077	0.078	12:25:42 PM	9/26/2011 12:25	0.078
10140	0.077	0.078	0.078	0.08	12:26:42 PM	9/26/2011 12:26	0.081
10200	0.077	0.078	0.079	0.08	12:27:42 PM	9/26/2011 12:27	0.08
10260	0.079	0.08	0.081	0.083	12:28:42 PM	9/26/2011 12:28	0.083
10320	0.079	0.08	0.081	0.084	12:29:42 PM	9/26/2011 12:29	0.085
10380	0.094	0.096	0.1	0.109	12:30:42 PM	9/26/2011 12:30	0.11
10440	0.079	0.08	0.082	0.086	12:31:42 PM	9/26/2011 12:31	0.086
10500	0.091	0.093	0.097	0.107	12:32:42 PM	9/26/2011 12:32	0.109
10560	0.086	0.088	0.092	0.101	12:33:42 PM	9/26/2011 12:33	0.102
10620	0.094	0.096	0.102	0.115	12:34:42 PM	9/26/2011 12:34	0.118
10680	0.082	0.083	0.086	0.091	12:35:42 PM	9/26/2011 12:35	0.093
10740	0.072	0.073	0.074	0.078	12:36:42 PM	9/26/2011 12:36	0.078
10800	0.082	0.083	0.086	0.098	12:37:42 PM	9/26/2011 12:37	0.1
10860	0.068	0.069	0.071	0.077	12:38:42 PM	9/26/2011 12:38	0.077
10920	0.068	0.069	0.071	0.077	12:39:42 PM	9/26/2011 12:39	0.077
10980	0.071	0.072	0.074	0.079	12:40:42 PM	9/26/2011 12:40	0.079
11040	0.059	0.06	0.061	0.064	12:41:42 PM	9/26/2011 12:41	0.065
11100	0.056	0.056	0.057	0.059	12:42:42 PM	9/26/2011 12:42	0.06
11160	0.052	0.053	0.053	0.054	12:43:42 PM	9/26/2011 12:43	0.054
11220	0.07	0.071	0.073	0.078	12:44:42 PM	9/26/2011 12:44	0.078
11280	0.076	0.077	0.079	0.083	12:45:42 PM	9/26/2011 12:45	0.084
11340	0.12	0.121	0.123	0.126	12:46:42 PM	9/26/2011 12:46	0.128
11400	0.097	0.098	0.099	0.102	12:47:42 PM	9/26/2011 12:47	0.103
11460	0.059	0.059	0.06	0.063	12:48:42 PM	9/26/2011 12:48	0.064
11520	0.055	0.055	0.056	0.057	12:49:42 PM	9/26/2011 12:49	0.057
11580	0.058	0.058	0.059	0.062	12:50:42 PM	9/26/2011 12:50	0.063
11640	0.057	0.057	0.058	0.059	12:51:42 PM	9/26/2011 12:51	0.059
11700	0.064	0.065	0.066	0.07	12:52:42 PM	9/26/2011 12:52	0.071
11760	0.057	0.057	0.058	0.059	12:53:42 PM	9/26/2011 12:53	0.06
11820	0.063	0.064	0.067	0.072	12:54:42 PM	9/26/2011 12:54	0.073
11880	0.057	0.057	0.059	0.063	12:55:42 PM	9/26/2011 12:55	0.064
11940	0.059	0.06	0.061	0.062	12:56:42 PM	9/26/2011 12:56	0.062
12000	0.06	0.06	0.061	0.063	12:57:42 PM	9/26/2011 12:57	0.064
12060	0.07	0.071	0.072	0.076	12:58:42 PM	9/26/2011 12:58	0.077
12120	0.059	0.059	0.06	0.062	12:59:42 PM	9/26/2011 12:59	0.062
12180	0.054	0.054	0.055	0.056	1:00:42 PM	9/26/2011 13:00	0.056
12240	0.056	0.056	0.056	0.057	1:01:42 PM	9/26/2011 13:01	0.057
12300	0.063	0.064	0.064	0.066	1:02:42 PM	9/26/2011 13:02	0.066
12360	0.057	0.057	0.058	0.058	1:03:42 PM	9/26/2011 13:03	0.058
12420	0.059	0.059	0.059	0.06	1:04:42 PM	9/26/2011 13:04	0.06
12480	0.062	0.062	0.062	0.064	1:05:42 PM	9/26/2011 13:05	0.064
12540	0.071	0.072	0.073	0.076	1:06:42 PM	9/26/2011 13:06	0.077
12600	0.096	0.098	0.1	0.108	1:07:42 PM	9/26/2011 13:07	0.109
12660	0.09	0.092	0.095	0.105	1:08:42 PM	9/26/2011 13:08	0.107
12720	0.075	0.076	0.077	0.078	1:09:42 PM	9/26/2011 13:09	0.078
12780	0.072	0.072	0.073	0.075	1:10:42 PM	9/26/2011 13:10	0.075
12840	0.08	0.082	0.085	0.091	1:11:42 PM	9/26/2011 13:11	0.092
12900	0.069	0.07	0.072	0.077	1:12:42 PM	9/26/2011 13:12	0.078
12960	0.071	0.072	0.073	0.076	1:13:42 PM	9/26/2011 13:13	0.077
13020	0.067	0.067	0.069	0.072	1:14:42 PM	9/26/2011 13:14	0.072
13080	0.06	0.061	0.061	0.062	1:15:42 PM	9/26/2011 13:15	0.062
13140	0.083	0.084	0.086	0.092	1:16:42 PM	9/26/2011 13:16	0.094
13200	0.067	0.067	0.068	0.069	1:17:42 PM	9/26/2011 13:17	0.069
13260	0.075	0.075	0.076	0.08	1:18:42 PM	9/26/2011 13:18	0.08
13320	0.072	0.073	0.074	0.078	1:19:42 PM	9/26/2011 13:19	0.079
13380	0.069	0.069	0.07	0.072	1:20:42 PM	9/26/2011 13:20	0.073
13440	0.057	0.058	0.058	0.059	1:21:42 PM	9/26/2011 13:21	0.059

13500	0.06	0.06	0.061	0.062	1:22:42 PM	9/26/2011 13:22	0.063
13560	0.061	0.061	0.062	0.063	1:23:42 PM	9/26/2011 13:23	0.064
13620	0.059	0.059	0.06	0.061	1:24:42 PM	9/26/2011 13:24	0.062
13680	0.061	0.062	0.063	0.065	1:25:42 PM	9/26/2011 13:25	0.065
13740	0.057	0.058	0.059	0.062	1:26:42 PM	9/26/2011 13:26	0.063
13800	0.061	0.061	0.063	0.066	1:27:42 PM	9/26/2011 13:27	0.066
13860	0.061	0.062	0.063	0.068	1:28:42 PM	9/26/2011 13:28	0.068
13920	0.065	0.065	0.067	0.072	1:29:42 PM	9/26/2011 13:29	0.072
13980	0.064	0.065	0.066	0.07	1:30:42 PM	9/26/2011 13:30	0.071
14040	0.083	0.086	0.091	0.107	1:31:42 PM	9/26/2011 13:31	0.108
14100	0.045	0.046	0.046	0.047	1:32:42 PM	9/26/2011 13:32	0.048
14160	0.056	0.057	0.058	0.059	1:33:42 PM	9/26/2011 13:33	0.06
14220	0.051	0.052	0.053	0.055	1:34:42 PM	9/26/2011 13:34	0.056
14280	0.049	0.049	0.049	0.051	1:35:42 PM	9/26/2011 13:35	0.051
14340	0.042	0.043	0.043	0.044	1:36:42 PM	9/26/2011 13:36	0.045
14400	0.047	0.047	0.048	0.049	1:37:42 PM	9/26/2011 13:37	0.05
14460	0.061	0.062	0.063	0.067	1:38:42 PM	9/26/2011 13:38	0.067
14520	0.055	0.055	0.057	0.061	1:39:42 PM	9/26/2011 13:39	0.063
14580	0.053	0.054	0.055	0.057	1:40:42 PM	9/26/2011 13:40	0.058
14640	0.051	0.052	0.052	0.053	1:41:42 PM	9/26/2011 13:41	0.054
14700	0.047	0.047	0.048	0.049	1:42:42 PM	9/26/2011 13:42	0.049
14760	0.039	0.039	0.04	0.04	1:43:42 PM	9/26/2011 13:43	0.04
14820	0.036	0.036	0.036	0.037	1:44:42 PM	9/26/2011 13:44	0.037
14880	0.041	0.041	0.041	0.042	1:45:42 PM	9/26/2011 13:45	0.042
14940	0.048	0.048	0.049	0.05	1:46:42 PM	9/26/2011 13:46	0.05
15000	0.057	0.059	0.062	0.068	1:47:42 PM	9/26/2011 13:47	0.068
15060	0.047	0.047	0.048	0.049	1:48:42 PM	9/26/2011 13:48	0.05
15120	0.04	0.04	0.04	0.041	1:49:42 PM	9/26/2011 13:49	0.041
15180	0.042	0.042	0.043	0.046	1:50:42 PM	9/26/2011 13:50	0.046
15240	0.043	0.043	0.044	0.048	1:51:42 PM	9/26/2011 13:51	0.049
15300	0.046	0.046	0.047	0.05	1:52:42 PM	9/26/2011 13:52	0.05
15360	0.044	0.045	0.046	0.049	1:53:42 PM	9/26/2011 13:53	0.05
15420	0.043	0.043	0.045	0.048	1:54:42 PM	9/26/2011 13:54	0.049
15480	0.049	0.049	0.051	0.056	1:55:42 PM	9/26/2011 13:55	0.057
15540	0.038	0.039	0.039	0.04	1:56:42 PM	9/26/2011 13:56	0.04
15600	0.044	0.045	0.045	0.047	1:57:42 PM	9/26/2011 13:57	0.047
15660	0.052	0.053	0.054	0.056	1:58:42 PM	9/26/2011 13:58	0.057
15720	0.072	0.073	0.076	0.085	1:59:42 PM	9/26/2011 13:59	0.085
15780	0.049	0.05	0.052	0.057	2:00:42 PM	9/26/2011 14:00	0.059
15840	0.04	0.041	0.041	0.043	2:01:42 PM	9/26/2011 14:01	0.043
15900	0.05	0.05	0.051	0.053	2:02:42 PM	9/26/2011 14:02	0.053
15960	0.037	0.038	0.038	0.039	2:03:42 PM	9/26/2011 14:03	0.039
16020	0.051	0.052	0.054	0.059	2:04:42 PM	9/26/2011 14:04	0.061
16080	0.051	0.053	0.056	0.064	2:05:42 PM	9/26/2011 14:05	0.067
16140	0.06	0.062	0.067	0.078	2:06:42 PM	9/26/2011 14:06	0.081
16200	0.045	0.045	0.047	0.049	2:07:42 PM	9/26/2011 14:07	0.05
16260	0.036	0.036	0.037	0.038	2:08:42 PM	9/26/2011 14:08	0.038
16320	0.034	0.034	0.035	0.036	2:09:42 PM	9/26/2011 14:09	0.036
16380	0.039	0.039	0.04	0.041	2:10:42 PM	9/26/2011 14:10	0.041
16440	0.031	0.031	0.031	0.033	2:11:42 PM	9/26/2011 14:11	0.033
16500	0.033	0.033	0.034	0.035	2:12:42 PM	9/26/2011 14:12	0.035
16560	0.032	0.033	0.033	0.035	2:13:42 PM	9/26/2011 14:13	0.036
16620	0.031	0.031	0.032	0.034	2:14:42 PM	9/26/2011 14:14	0.035
16680	0.036	0.036	0.037	0.039	2:15:42 PM	9/26/2011 14:15	0.04
16740	0.031	0.032	0.032	0.033	2:16:42 PM	9/26/2011 14:16	0.033
16800	0.04	0.041	0.042	0.045	2:17:42 PM	9/26/2011 14:17	0.045
16860	0.042	0.043	0.044	0.046	2:18:42 PM	9/26/2011 14:18	0.047
16920	0.037	0.037	0.038	0.041	2:19:42 PM	9/26/2011 14:19	0.042
16980	0.041	0.041	0.042	0.043	2:20:42 PM	9/26/2011 14:20	0.043
17040	0.038	0.038	0.039	0.041	2:21:42 PM	9/26/2011 14:21	0.041
17100	0.042	0.043	0.044	0.047	2:22:42 PM	9/26/2011 14:22	0.049
17160	0.03	0.03	0.031	0.031	2:23:42 PM	9/26/2011 14:23	0.031
17220	0.035	0.036	0.036	0.037	2:24:42 PM	9/26/2011 14:24	0.038
17280	0.036	0.036	0.037	0.038	2:25:42 PM	9/26/2011 14:25	0.039
17340	0.039	0.039	0.04	0.044	2:26:42 PM	9/26/2011 14:26	0.046
17400	0.046	0.047	0.049	0.054	2:27:42 PM	9/26/2011 14:27	0.057
17460	0.038	0.038	0.04	0.044	2:28:42 PM	9/26/2011 14:28	0.045
17520	0.043	0.044	0.045	0.049	2:29:42 PM	9/26/2011 14:29	0.049
17580	0.045	0.045	0.047	0.049	2:30:42 PM	9/26/2011 14:30	0.051
17640	0.036	0.037	0.037	0.039	2:31:42 PM	9/26/2011 14:31	0.04
17700	0.058	0.059	0.062	0.07	2:32:42 PM	9/26/2011 14:32	0.072
17760	0.057	0.059	0.062	0.073	2:33:42 PM	9/26/2011 14:33	0.076
17820	0.053	0.054	0.057	0.065	2:34:42 PM	9/26/2011 14:34	0.069
17880	0.041	0.042	0.044	0.051	2:35:42 PM	9/26/2011 14:35	0.053
17940	0.03	0.03	0.031	0.032	2:36:42 PM	9/26/2011 14:36	0.032
18000	0.035	0.035	0.035	0.038	2:37:42 PM	9/26/2011 14:37	0.038
18060	0.085	0.086	0.087	0.091	2:38:42 PM	9/26/2011 14:38	0.092
18120	0.031	0.031	0.032	0.034	2:39:42 PM	9/26/2011 14:39	0.034
18180	0.032	0.032	0.033	0.034	2:40:42 PM	9/26/2011 14:40	0.035
18240	0.038	0.038	0.039	0.042	2:41:42 PM	9/26/2011 14:41	0.044
18300	0.04	0.04	0.041	0.046	2:42:42 PM	9/26/2011 14:42	0.048
18360	0.031	0.032	0.033	0.037	2:43:42 PM	9/26/2011 14:43	0.037
18420	0.028	0.029	0.03	0.033	2:44:42 PM	9/26/2011 14:44	0.034
18480	0.035	0.036	0.037	0.04	2:45:42 PM	9/26/2011 14:45	0.041
18540	0.039	0.04	0.041	0.045	2:46:42 PM	9/26/2011 14:46	0.047
18600	0.024	0.025	0.025	0.027	2:47:42 PM	9/26/2011 14:47	0.028
18660	0.021	0.021	0.022	0.023	2:48:42 PM	9/26/2011 14:48	0.023

18720	0.023	0.023	0.024	0.025	2:49:42 PM	9/26/2011 14:49	0.026
18780	0.028	0.028	0.03	0.033	2:50:42 PM	9/26/2011 14:50	0.034
18840	0.027	0.028	0.029	0.031	2:51:42 PM	9/26/2011 14:51	0.032
18900	0.029	0.029	0.03	0.033	2:52:42 PM	9/26/2011 14:52	0.034
18960	0.023	0.023	0.024	0.026	2:53:42 PM	9/26/2011 14:53	0.026
19020	0.024	0.025	0.025	0.026	2:54:42 PM	9/26/2011 14:54	0.027
19080	0.026	0.026	0.027	0.028	2:55:42 PM	9/26/2011 14:55	0.028
19140	0.027	0.027	0.028	0.03	2:56:42 PM	9/26/2011 14:56	0.03
19200	0.025	0.025	0.026	0.027	2:57:42 PM	9/26/2011 14:57	0.028
19260	0.024	0.024	0.025	0.027	2:58:42 PM	9/26/2011 14:58	0.027
19320	0.025	0.026	0.027	0.03	2:59:42 PM	9/26/2011 14:59	0.031
19380	0.023	0.023	0.024	0.024	3:00:42 PM	9/26/2011 15:00	0.025
19440	0.024	0.024	0.025	0.026	3:01:42 PM	9/26/2011 15:01	0.026
19500	0.029	0.029	0.03	0.031	3:02:42 PM	9/26/2011 15:02	0.031
19560	0.03	0.03	0.031	0.033	3:03:42 PM	9/26/2011 15:03	0.034
19620	0.033	0.033	0.034	0.036	3:04:42 PM	9/26/2011 15:04	0.036
19680	0.029	0.029	0.03	0.031	3:05:42 PM	9/26/2011 15:05	0.032
19740	0.03	0.03	0.032	0.036	3:06:42 PM	9/26/2011 15:06	0.038

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_001
Test Start Time	9:17:47 AM
Test Start Date	9/27/2011
Test Length [D:H:M]	0:05:38
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.045
PM1 Minimum [mg/m3]	0.022
PM1 Maximum [mg/m3]	0.349
PM1 TWA [mg/m3]	0.032
PM2.5 Average [mg/m3]	0.046
PM2.5 Minimum [mg/m3]	0.022
PM2.5 Maximum [mg/m3]	0.352
PM2.5 TWA [mg/m3]	0.032
PM4 Average [mg/m3]	0.047
PM4 Minimum [mg/m3]	0.023
PM4 Maximum [mg/m3]	0.36
PM4 TWA [mg/m3]	0.033
PM10 Average [mg/m3]	0.049
PM10 Minimum [mg/m3]	0.023
PM10 Maximum [mg/m3]	0.424
PM10 TWA [mg/m3]	0.034
TOTAL Average [mg/m3]	0.049
TOTAL Minimum [mg/m3]	0.023
TOTAL Maximum [mg/m3]	0.469
TOTAL TWA [mg/m3]	0.035
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	338



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:17:47 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.349	0.352	0.36	0.424	9:18:47 AM	9/27/2011 9:18	0.469		
120	0.077	0.078	0.08	0.088	9:19:47 AM	9/27/2011 9:19	0.094		
180	0.06	0.06	0.061	0.063	9:20:47 AM	9/27/2011 9:20	0.064		
240	0.109	0.11	0.112	0.118	9:21:47 AM	9/27/2011 9:21	0.119		
300	0.08	0.081	0.082	0.086	9:22:47 AM	9/27/2011 9:22	0.087		
360	0.063	0.063	0.065	0.069	9:23:47 AM	9/27/2011 9:23	0.071		
420	0.056	0.056	0.057	0.061	9:24:47 AM	9/27/2011 9:24	0.062		
480	0.057	0.057	0.058	0.061	9:25:47 AM	9/27/2011 9:25	0.061		
540	0.069	0.07	0.071	0.073	9:26:47 AM	9/27/2011 9:26	0.073		
600	0.095	0.096	0.099	0.105	9:27:47 AM	9/27/2011 9:27	0.106		
660	0.057	0.057	0.058	0.06	9:28:47 AM	9/27/2011 9:28	0.061		
720	0.047	0.047	0.048	0.049	9:29:47 AM	9/27/2011 9:29	0.05		
780	0.049	0.05	0.05	0.052	9:30:47 AM	9/27/2011 9:30	0.052		
840	0.055	0.055	0.056	0.058	9:31:47 AM	9/27/2011 9:31	0.058		
900	0.062	0.063	0.064	0.068	9:32:47 AM	9/27/2011 9:32	0.069		
960	0.065	0.066	0.068	0.073	9:33:47 AM	9/27/2011 9:33	0.073		
1020	0.056	0.057	0.058	0.063	9:34:47 AM	9/27/2011 9:34	0.063		
1080	0.07	0.072	0.076	0.087	9:35:47 AM	9/27/2011 9:35	0.089		
1140	0.064	0.065	0.068	0.077	9:36:47 AM	9/27/2011 9:36	0.078		
1200	0.072	0.074	0.077	0.083	9:37:47 AM	9/27/2011 9:37	0.084		
1260	0.092	0.095	0.103	0.12	9:38:47 AM	9/27/2011 9:38	0.124		
1320	0.07	0.072	0.076	0.084	9:39:47 AM	9/27/2011 9:39	0.085		
1380	0.063	0.065	0.067	0.074	9:40:47 AM	9/27/2011 9:40	0.075		
1440	0.094	0.098	0.107	0.123	9:41:47 AM	9/27/2011 9:41	0.127		
1500	0.085	0.088	0.095	0.111	9:42:47 AM	9/27/2011 9:42	0.115		
1560	0.058	0.059	0.06	0.064	9:43:47 AM	9/27/2011 9:43	0.065		
1620	0.094	0.096	0.101	0.115	9:44:47 AM	9/27/2011 9:44	0.116		
1680	0.069	0.071	0.075	0.084	9:45:47 AM	9/27/2011 9:45	0.085		
1740	0.053	0.054	0.055	0.057	9:46:47 AM	9/27/2011 9:46	0.059		
1800	0.053	0.054	0.054	0.056	9:47:47 AM	9/27/2011 9:47	0.056		
1860	0.062	0.062	0.064	0.068	9:48:47 AM	9/27/2011 9:48	0.069		
1920	0.055	0.056	0.056	0.059	9:49:47 AM	9/27/2011 9:49	0.059		
1980	0.053	0.053	0.054	0.054	9:50:47 AM	9/27/2011 9:50	0.054		
2040	0.055	0.055	0.055	0.057	9:51:47 AM	9/27/2011 9:51	0.057		
2100	0.054	0.054	0.055	0.057	9:52:47 AM	9/27/2011 9:52	0.057		
2160	0.051	0.051	0.052	0.053	9:53:47 AM	9/27/2011 9:53	0.053		
2220	0.051	0.052	0.052	0.053	9:54:47 AM	9/27/2011 9:54	0.053		
2280	0.054	0.054	0.055	0.057	9:55:47 AM	9/27/2011 9:55	0.057		
2340	0.054	0.055	0.056	0.058	9:56:47 AM	9/27/2011 9:56	0.059		
2400	0.056	0.057	0.058	0.06	9:57:47 AM	9/27/2011 9:57	0.061		
2460	0.065	0.065	0.067	0.069	9:58:47 AM	9/27/2011 9:58	0.069		
2520	0.054	0.054	0.055	0.057	9:59:47 AM	9/27/2011 9:59	0.057		
2580	0.055	0.055	0.056	0.06	10:00:47 AM	9/27/2011 10:00	0.063		
2640	0.049	0.049	0.05	0.051	10:01:47 AM	9/27/2011 10:01	0.051		
2700	0.054	0.054	0.055	0.056	10:02:47 AM	9/27/2011 10:02	0.056		
2760	0.055	0.056	0.056	0.058	10:03:47 AM	9/27/2011 10:03	0.058		
2820	0.064	0.065	0.067	0.071	10:04:47 AM	9/27/2011 10:04	0.071		
2880	0.063	0.064	0.066	0.071	10:05:47 AM	9/27/2011 10:05	0.072		
2940	0.057	0.058	0.058	0.06	10:06:47 AM	9/27/2011 10:06	0.06		
3000	0.056	0.056	0.057	0.058	10:07:47 AM	9/27/2011 10:07	0.058		

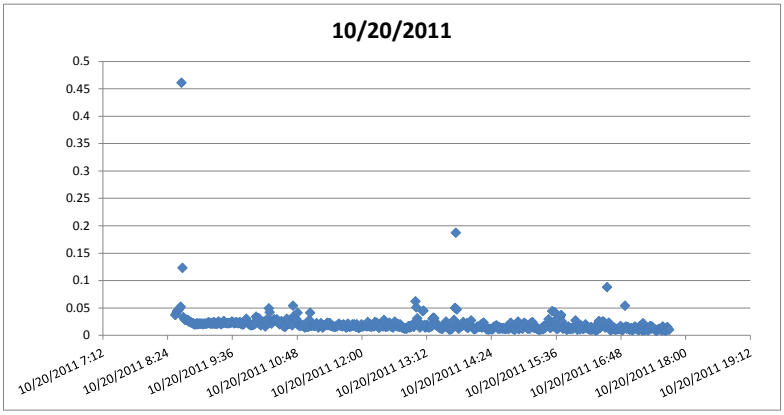
3060	0.051	0.051	0.052	0.053	10:08:47 AM	9/27/2011 10:08	0.054
3120	0.053	0.054	0.055	0.057	10:09:47 AM	9/27/2011 10:09	0.057
3180	0.049	0.049	0.05	0.052	10:10:47 AM	9/27/2011 10:10	0.052
3240	0.044	0.044	0.045	0.045	10:11:47 AM	9/27/2011 10:11	0.045
3300	0.048	0.048	0.048	0.052	10:12:47 AM	9/27/2011 10:12	0.055
3360	0.043	0.043	0.043	0.044	10:13:47 AM	9/27/2011 10:13	0.044
3420	0.041	0.041	0.041	0.041	10:14:47 AM	9/27/2011 10:14	0.041
3480	0.045	0.045	0.045	0.046	10:15:47 AM	9/27/2011 10:15	0.046
3540	0.049	0.049	0.049	0.05	10:16:47 AM	9/27/2011 10:16	0.05
3600	0.046	0.046	0.047	0.047	10:17:47 AM	9/27/2011 10:17	0.047
3660	0.046	0.046	0.047	0.048	10:18:47 AM	9/27/2011 10:18	0.048
3720	0.049	0.05	0.05	0.052	10:19:47 AM	9/27/2011 10:19	0.052
3780	0.037	0.037	0.037	0.038	10:20:47 AM	9/27/2011 10:20	0.038
3840	0.042	0.042	0.042	0.043	10:21:47 AM	9/27/2011 10:21	0.044
3900	0.039	0.04	0.04	0.041	10:22:47 AM	9/27/2011 10:22	0.041
3960	0.042	0.043	0.043	0.045	10:23:47 AM	9/27/2011 10:23	0.045
4020	0.043	0.043	0.044	0.046	10:24:47 AM	9/27/2011 10:24	0.046
4080	0.033	0.033	0.033	0.034	10:25:47 AM	9/27/2011 10:25	0.034
4140	0.035	0.035	0.036	0.036	10:26:47 AM	9/27/2011 10:26	0.036
4200	0.038	0.038	0.038	0.039	10:27:47 AM	9/27/2011 10:27	0.039
4260	0.04	0.04	0.04	0.041	10:28:47 AM	9/27/2011 10:28	0.041
4320	0.041	0.041	0.042	0.043	10:29:47 AM	9/27/2011 10:29	0.043
4380	0.061	0.062	0.063	0.067	10:30:47 AM	9/27/2011 10:30	0.068
4440	0.059	0.06	0.062	0.067	10:31:47 AM	9/27/2011 10:31	0.067
4500	0.055	0.056	0.057	0.062	10:32:47 AM	9/27/2011 10:32	0.063
4560	0.054	0.055	0.056	0.06	10:33:47 AM	9/27/2011 10:33	0.061
4620	0.053	0.053	0.055	0.059	10:34:47 AM	9/27/2011 10:34	0.059
4680	0.047	0.048	0.048	0.05	10:35:47 AM	9/27/2011 10:35	0.05
4740	0.058	0.059	0.06	0.062	10:36:47 AM	9/27/2011 10:36	0.062
4800	0.053	0.053	0.054	0.056	10:37:47 AM	9/27/2011 10:37	0.057
4860	0.056	0.056	0.057	0.061	10:38:47 AM	9/27/2011 10:38	0.062
4920	0.066	0.067	0.067	0.068	10:39:47 AM	9/27/2011 10:39	0.068
4980	0.062	0.063	0.063	0.064	10:40:47 AM	9/27/2011 10:40	0.064
5040	0.048	0.048	0.048	0.05	10:41:47 AM	9/27/2011 10:41	0.05
5100	0.061	0.062	0.063	0.065	10:42:47 AM	9/27/2011 10:42	0.065
5160	0.048	0.048	0.048	0.05	10:43:47 AM	9/27/2011 10:43	0.052
5220	0.048	0.049	0.049	0.049	10:44:47 AM	9/27/2011 10:44	0.049
5280	0.054	0.054	0.055	0.057	10:45:47 AM	9/27/2011 10:45	0.057
5340	0.049	0.049	0.05	0.051	10:46:47 AM	9/27/2011 10:46	0.051
5400	0.044	0.044	0.045	0.046	10:47:47 AM	9/27/2011 10:47	0.046
5460	0.05	0.051	0.052	0.055	10:48:47 AM	9/27/2011 10:48	0.055
5520	0.048	0.049	0.05	0.054	10:49:47 AM	9/27/2011 10:49	0.054
5580	0.05	0.051	0.052	0.056	10:50:47 AM	9/27/2011 10:50	0.056
5640	0.046	0.046	0.047	0.049	10:51:47 AM	9/27/2011 10:51	0.05
5700	0.042	0.043	0.043	0.045	10:52:47 AM	9/27/2011 10:52	0.045
5760	0.037	0.037	0.037	0.038	10:53:47 AM	9/27/2011 10:53	0.038
5820	0.047	0.047	0.049	0.054	10:54:47 AM	9/27/2011 10:54	0.055
5880	0.045	0.045	0.046	0.047	10:55:47 AM	9/27/2011 10:55	0.047
5940	0.044	0.044	0.045	0.046	10:56:47 AM	9/27/2011 10:56	0.046
6000	0.045	0.045	0.045	0.046	10:57:47 AM	9/27/2011 10:57	0.046
6060	0.041	0.041	0.041	0.042	10:58:47 AM	9/27/2011 10:58	0.042
6120	0.043	0.043	0.043	0.044	10:59:47 AM	9/27/2011 10:59	0.044
6180	0.036	0.036	0.036	0.036	11:00:47 AM	9/27/2011 11:00	0.036
6240	0.036	0.036	0.037	0.037	11:01:47 AM	9/27/2011 11:01	0.037
6300	0.039	0.039	0.039	0.04	11:02:47 AM	9/27/2011 11:02	0.04
6360	0.038	0.038	0.038	0.038	11:03:47 AM	9/27/2011 11:03	0.038
6420	0.042	0.042	0.042	0.043	11:04:47 AM	9/27/2011 11:04	0.043
6480	0.043	0.043	0.043	0.044	11:05:47 AM	9/27/2011 11:05	0.045
6540	0.045	0.045	0.046	0.046	11:06:47 AM	9/27/2011 11:06	0.047
6600	0.046	0.046	0.047	0.05	11:07:47 AM	9/27/2011 11:07	0.05
6660	0.05	0.05	0.051	0.054	11:08:47 AM	9/27/2011 11:08	0.055
6720	0.054	0.054	0.056	0.059	11:09:47 AM	9/27/2011 11:09	0.059
6780	0.044	0.044	0.045	0.047	11:10:47 AM	9/27/2011 11:10	0.047
6840	0.038	0.038	0.038	0.039	11:11:47 AM	9/27/2011 11:11	0.039
6900	0.036	0.037	0.037	0.037	11:12:47 AM	9/27/2011 11:12	0.037
6960	0.038	0.039	0.039	0.039	11:13:47 AM	9/27/2011 11:13	0.039
7020	0.043	0.044	0.045	0.048	11:14:47 AM	9/27/2011 11:14	0.049
7080	0.053	0.055	0.058	0.065	11:15:47 AM	9/27/2011 11:15	0.067
7140	0.041	0.041	0.042	0.045	11:16:47 AM	9/27/2011 11:16	0.045
7200	0.058	0.06	0.063	0.072	11:17:47 AM	9/27/2011 11:17	0.073
7260	0.046	0.047	0.048	0.051	11:18:47 AM	9/27/2011 11:18	0.051
7320	0.045	0.046	0.046	0.048	11:19:47 AM	9/27/2011 11:19	0.048
7380	0.042	0.043	0.043	0.044	11:20:47 AM	9/27/2011 11:20	0.045
7440	0.044	0.045	0.045	0.047	11:21:47 AM	9/27/2011 11:21	0.048
7500	0.042	0.042	0.042	0.044	11:22:47 AM	9/27/2011 11:22	0.044
7560	0.044	0.044	0.044	0.046	11:23:47 AM	9/27/2011 11:23	0.046
7620	0.059	0.06	0.061	0.062	11:24:47 AM	9/27/2011 11:24	0.063
7680	0.046	0.047	0.047	0.049	11:25:47 AM	9/27/2011 11:25	0.049
7740	0.047	0.047	0.048	0.051	11:26:47 AM	9/27/2011 11:26	0.052
7800	0.05	0.051	0.052	0.055	11:27:47 AM	9/27/2011 11:27	0.056
7860	0.048	0.049	0.051	0.057	11:28:47 AM	9/27/2011 11:28	0.058
7920	0.048	0.049	0.051	0.055	11:29:47 AM	9/27/2011 11:29	0.056
7980	0.035	0.035	0.035	0.036	11:30:47 AM	9/27/2011 11:30	0.037
8040	0.038	0.039	0.039	0.042	11:31:47 AM	9/27/2011 11:31	0.042
8100	0.043	0.043	0.044	0.046	11:32:47 AM	9/27/2011 11:32	0.047
8160	0.043	0.043	0.044	0.048	11:33:47 AM	9/27/2011 11:33	0.048
8220	0.042	0.043	0.044	0.048	11:34:47 AM	9/27/2011 11:34	0.048

8280	0.037	0.038	0.038	0.04	11:35:47 AM	9/27/2011 11:35	0.04
8340	0.034	0.034	0.035	0.035	11:36:47 AM	9/27/2011 11:36	0.036
8400	0.034	0.034	0.034	0.035	11:37:47 AM	9/27/2011 11:37	0.036
8460	0.034	0.035	0.035	0.035	11:38:47 AM	9/27/2011 11:38	0.035
8520	0.048	0.048	0.05	0.053	11:39:47 AM	9/27/2011 11:39	0.053
8580	0.048	0.048	0.049	0.051	11:40:47 AM	9/27/2011 11:40	0.051
8640	0.043	0.043	0.045	0.048	11:41:47 AM	9/27/2011 11:41	0.048
8700	0.043	0.043	0.044	0.047	11:42:47 AM	9/27/2011 11:42	0.047
8760	0.037	0.037	0.037	0.039	11:43:47 AM	9/27/2011 11:43	0.039
8820	0.033	0.033	0.034	0.035	11:44:47 AM	9/27/2011 11:44	0.035
8880	0.034	0.034	0.034	0.036	11:45:47 AM	9/27/2011 11:45	0.036
8940	0.038	0.038	0.039	0.041	11:46:47 AM	9/27/2011 11:46	0.041
9000	0.045	0.046	0.047	0.052	11:47:47 AM	9/27/2011 11:47	0.052
9060	0.036	0.037	0.038	0.04	11:48:47 AM	9/27/2011 11:48	0.04
9120	0.034	0.034	0.035	0.036	11:49:47 AM	9/27/2011 11:49	0.036
9180	0.033	0.033	0.033	0.034	11:50:47 AM	9/27/2011 11:50	0.035
9240	0.029	0.029	0.029	0.03	11:51:47 AM	9/27/2011 11:51	0.03
9300	0.031	0.032	0.032	0.033	11:52:47 AM	9/27/2011 11:52	0.033
9360	0.029	0.029	0.03	0.03	11:53:47 AM	9/27/2011 11:53	0.03
9420	0.037	0.038	0.038	0.04	11:54:47 AM	9/27/2011 11:54	0.04
9480	0.051	0.052	0.054	0.06	11:55:47 AM	9/27/2011 11:55	0.06
9540	0.034	0.034	0.036	0.04	11:56:47 AM	9/27/2011 11:56	0.041
9600	0.031	0.032	0.032	0.033	11:57:47 AM	9/27/2011 11:57	0.033
9660	0.031	0.032	0.032	0.032	11:58:47 AM	9/27/2011 11:58	0.032
9720	0.029	0.03	0.03	0.031	11:59:47 AM	9/27/2011 11:59	0.031
9780	0.03	0.03	0.031	0.032	12:00:47 PM	9/27/2011 12:00	0.032
9840	0.032	0.032	0.033	0.034	12:01:47 PM	9/27/2011 12:01	0.034
9900	0.033	0.033	0.034	0.036	12:02:47 PM	9/27/2011 12:02	0.036
9960	0.031	0.031	0.032	0.033	12:03:47 PM	9/27/2011 12:03	0.034
10020	0.034	0.034	0.035	0.037	12:04:47 PM	9/27/2011 12:04	0.038
10080	0.035	0.036	0.036	0.039	12:05:47 PM	9/27/2011 12:05	0.04
10140	0.054	0.054	0.055	0.056	12:06:47 PM	9/27/2011 12:06	0.058
10200	0.039	0.04	0.041	0.043	12:07:47 PM	9/27/2011 12:07	0.044
10260	0.043	0.043	0.044	0.048	12:08:47 PM	9/27/2011 12:08	0.048
10320	0.026	0.026	0.026	0.027	12:09:47 PM	9/27/2011 12:09	0.027
10380	0.036	0.036	0.037	0.039	12:10:47 PM	9/27/2011 12:10	0.039
10440	0.027	0.028	0.028	0.031	12:11:47 PM	9/27/2011 12:11	0.033
10500	0.03	0.03	0.031	0.033	12:12:47 PM	9/27/2011 12:12	0.033
10560	0.033	0.034	0.035	0.039	12:13:47 PM	9/27/2011 12:13	0.04
10620	0.027	0.028	0.029	0.03	12:14:47 PM	9/27/2011 12:14	0.03
10680	0.037	0.038	0.039	0.042	12:15:47 PM	9/27/2011 12:15	0.043
10740	0.029	0.029	0.03	0.032	12:16:47 PM	9/27/2011 12:16	0.033
10800	0.054	0.055	0.056	0.058	12:17:47 PM	9/27/2011 12:17	0.058
10860	0.037	0.038	0.038	0.041	12:18:47 PM	9/27/2011 12:18	0.041
10920	0.032	0.032	0.033	0.036	12:19:47 PM	9/27/2011 12:19	0.037
10980	0.029	0.03	0.03	0.031	12:20:47 PM	9/27/2011 12:20	0.031
11040	0.03	0.031	0.032	0.033	12:21:47 PM	9/27/2011 12:21	0.033
11100	0.029	0.03	0.03	0.031	12:22:47 PM	9/27/2011 12:22	0.032
11160	0.032	0.033	0.033	0.034	12:23:47 PM	9/27/2011 12:23	0.034
11220	0.031	0.031	0.032	0.034	12:24:47 PM	9/27/2011 12:24	0.035
11280	0.038	0.039	0.039	0.041	12:25:47 PM	9/27/2011 12:25	0.041
11340	0.027	0.028	0.029	0.03	12:26:47 PM	9/27/2011 12:26	0.031
11400	0.037	0.038	0.039	0.042	12:27:47 PM	9/27/2011 12:27	0.044
11460	0.026	0.027	0.028	0.03	12:28:47 PM	9/27/2011 12:28	0.03
11520	0.025	0.025	0.025	0.026	12:29:47 PM	9/27/2011 12:29	0.026
11580	0.048	0.05	0.055	0.064	12:30:47 PM	9/27/2011 12:30	0.065
11640	0.037	0.039	0.041	0.049	12:31:47 PM	9/27/2011 12:31	0.05
11700	0.028	0.028	0.029	0.03	12:32:47 PM	9/27/2011 12:32	0.03
11760	0.027	0.027	0.028	0.029	12:33:47 PM	9/27/2011 12:33	0.029
11820	0.029	0.029	0.03	0.031	12:34:47 PM	9/27/2011 12:34	0.031
11880	0.025	0.025	0.025	0.026	12:35:47 PM	9/27/2011 12:35	0.026
11940	0.033	0.033	0.034	0.036	12:36:47 PM	9/27/2011 12:36	0.036
12000	0.026	0.026	0.026	0.027	12:37:47 PM	9/27/2011 12:37	0.027
12060	0.022	0.022	0.023	0.023	12:38:47 PM	9/27/2011 12:38	0.023
12120	0.022	0.022	0.023	0.023	12:39:47 PM	9/27/2011 12:39	0.023
12180	0.022	0.023	0.023	0.023	12:40:47 PM	9/27/2011 12:40	0.024
12240	0.023	0.023	0.024	0.024	12:41:47 PM	9/27/2011 12:41	0.024
12300	0.024	0.024	0.024	0.025	12:42:47 PM	9/27/2011 12:42	0.025
12360	0.031	0.032	0.032	0.033	12:43:47 PM	9/27/2011 12:43	0.033
12420	0.034	0.034	0.035	0.036	12:44:47 PM	9/27/2011 12:44	0.036
12480	0.037	0.037	0.038	0.04	12:45:47 PM	9/27/2011 12:45	0.04
12540	0.033	0.033	0.034	0.036	12:46:47 PM	9/27/2011 12:46	0.036
12600	0.037	0.037	0.038	0.039	12:47:47 PM	9/27/2011 12:47	0.04
12660	0.032	0.032	0.032	0.034	12:48:47 PM	9/27/2011 12:48	0.034
12720	0.035	0.035	0.036	0.037	12:49:47 PM	9/27/2011 12:49	0.038
12780	0.042	0.043	0.044	0.048	12:50:47 PM	9/27/2011 12:50	0.049
12840	0.03	0.031	0.032	0.033	12:51:47 PM	9/27/2011 12:51	0.034
12900	0.031	0.032	0.032	0.034	12:52:47 PM	9/27/2011 12:52	0.034
12960	0.03	0.031	0.032	0.033	12:53:47 PM	9/27/2011 12:53	0.033
13020	0.04	0.04	0.041	0.043	12:54:47 PM	9/27/2011 12:54	0.044
13080	0.039	0.039	0.04	0.042	12:55:47 PM	9/27/2011 12:55	0.042
13140	0.031	0.031	0.032	0.033	12:56:47 PM	9/27/2011 12:56	0.033
13200	0.028	0.028	0.029	0.03	12:57:47 PM	9/27/2011 12:57	0.03
13260	0.029	0.029	0.03	0.031	12:58:47 PM	9/27/2011 12:58	0.031
13320	0.025	0.025	0.025	0.026	12:59:47 PM	9/27/2011 12:59	0.026
13380	0.026	0.026	0.026	0.027	1:00:47 PM	9/27/2011 13:00	0.027
13440	0.026	0.026	0.027	0.027	1:01:47 PM	9/27/2011 13:01	0.027

13500	0.035	0.035	0.036	0.036	1:02:47 PM	9/27/2011 13:02	0.036
13560	0.032	0.032	0.032	0.033	1:03:47 PM	9/27/2011 13:03	0.033
13620	0.037	0.037	0.037	0.039	1:04:47 PM	9/27/2011 13:04	0.039
13680	0.03	0.03	0.03	0.032	1:05:47 PM	9/27/2011 13:05	0.032
13740	0.031	0.032	0.032	0.033	1:06:47 PM	9/27/2011 13:06	0.033
13800	0.043	0.043	0.044	0.046	1:07:47 PM	9/27/2011 13:07	0.047
13860	0.036	0.036	0.036	0.037	1:08:47 PM	9/27/2011 13:08	0.037
13920	0.028	0.028	0.028	0.029	1:09:47 PM	9/27/2011 13:09	0.029
13980	0.03	0.03	0.03	0.031	1:10:47 PM	9/27/2011 13:10	0.031
14040	0.036	0.036	0.037	0.037	1:11:47 PM	9/27/2011 13:11	0.037
14100	0.035	0.035	0.036	0.037	1:12:47 PM	9/27/2011 13:12	0.037
14160	0.035	0.035	0.036	0.037	1:13:47 PM	9/27/2011 13:13	0.037
14220	0.049	0.049	0.051	0.054	1:14:47 PM	9/27/2011 13:14	0.054
14280	0.032	0.032	0.033	0.035	1:15:47 PM	9/27/2011 13:15	0.035
14340	0.037	0.038	0.039	0.041	1:16:47 PM	9/27/2011 13:16	0.042
14400	0.028	0.029	0.029	0.03	1:17:47 PM	9/27/2011 13:17	0.03
14460	0.031	0.031	0.031	0.032	1:18:47 PM	9/27/2011 13:18	0.032
14520	0.043	0.043	0.044	0.045	1:19:47 PM	9/27/2011 13:19	0.045
14580	0.043	0.043	0.043	0.044	1:20:47 PM	9/27/2011 13:20	0.044
14640	0.037	0.037	0.038	0.038	1:21:47 PM	9/27/2011 13:21	0.038
14700	0.035	0.035	0.035	0.036	1:22:47 PM	9/27/2011 13:22	0.036
14760	0.032	0.032	0.033	0.034	1:23:47 PM	9/27/2011 13:23	0.034
14820	0.031	0.031	0.032	0.032	1:24:47 PM	9/27/2011 13:24	0.032
14880	0.033	0.033	0.034	0.034	1:25:47 PM	9/27/2011 13:25	0.034
14940	0.034	0.034	0.034	0.035	1:26:47 PM	9/27/2011 13:26	0.035
15000	0.039	0.039	0.039	0.04	1:27:47 PM	9/27/2011 13:27	0.041
15060	0.03	0.03	0.03	0.031	1:28:47 PM	9/27/2011 13:28	0.031
15120	0.038	0.038	0.038	0.039	1:29:47 PM	9/27/2011 13:29	0.039
15180	0.036	0.036	0.036	0.036	1:30:47 PM	9/27/2011 13:30	0.036
15240	0.044	0.044	0.045	0.048	1:31:47 PM	9/27/2011 13:31	0.048
15300	0.038	0.039	0.039	0.041	1:32:47 PM	9/27/2011 13:32	0.041
15360	0.033	0.034	0.034	0.034	1:33:47 PM	9/27/2011 13:33	0.034
15420	0.035	0.035	0.036	0.036	1:34:47 PM	9/27/2011 13:34	0.037
15480	0.039	0.039	0.039	0.04	1:35:47 PM	9/27/2011 13:35	0.04
15540	0.035	0.036	0.036	0.036	1:36:47 PM	9/27/2011 13:36	0.036
15600	0.039	0.039	0.04	0.041	1:37:47 PM	9/27/2011 13:37	0.041
15660	0.041	0.041	0.041	0.042	1:38:47 PM	9/27/2011 13:38	0.042
15720	0.038	0.038	0.039	0.041	1:39:47 PM	9/27/2011 13:39	0.041
15780	0.037	0.038	0.038	0.038	1:40:47 PM	9/27/2011 13:40	0.038
15840	0.04	0.041	0.041	0.042	1:41:47 PM	9/27/2011 13:41	0.042
15900	0.035	0.035	0.035	0.036	1:42:47 PM	9/27/2011 13:42	0.036
15960	0.036	0.036	0.037	0.037	1:43:47 PM	9/27/2011 13:43	0.037
16020	0.037	0.037	0.037	0.038	1:44:47 PM	9/27/2011 13:44	0.038
16080	0.041	0.041	0.041	0.042	1:45:47 PM	9/27/2011 13:45	0.043
16140	0.04	0.04	0.041	0.041	1:46:47 PM	9/27/2011 13:46	0.041
16200	0.036	0.036	0.036	0.037	1:47:47 PM	9/27/2011 13:47	0.037
16260	0.036	0.036	0.036	0.037	1:48:47 PM	9/27/2011 13:48	0.037
16320	0.04	0.04	0.041	0.042	1:49:47 PM	9/27/2011 13:49	0.042
16380	0.042	0.042	0.042	0.043	1:50:47 PM	9/27/2011 13:50	0.043
16440	0.04	0.04	0.04	0.041	1:51:47 PM	9/27/2011 13:51	0.041
16500	0.045	0.045	0.045	0.046	1:52:47 PM	9/27/2011 13:52	0.046
16560	0.045	0.045	0.046	0.046	1:53:47 PM	9/27/2011 13:53	0.046
16620	0.043	0.044	0.044	0.045	1:54:47 PM	9/27/2011 13:54	0.045
16680	0.043	0.043	0.043	0.044	1:55:47 PM	9/27/2011 13:55	0.045
16740	0.046	0.047	0.048	0.05	1:56:47 PM	9/27/2011 13:56	0.05
16800	0.05	0.051	0.051	0.052	1:57:47 PM	9/27/2011 13:57	0.052
16860	0.041	0.041	0.041	0.041	1:58:47 PM	9/27/2011 13:58	0.042
16920	0.045	0.045	0.046	0.047	1:59:47 PM	9/27/2011 13:59	0.047
16980	0.048	0.048	0.049	0.051	2:00:47 PM	9/27/2011 14:00	0.051
17040	0.042	0.042	0.043	0.044	2:01:47 PM	9/27/2011 14:01	0.045
17100	0.04	0.041	0.042	0.043	2:02:47 PM	9/27/2011 14:02	0.043
17160	0.038	0.039	0.039	0.039	2:03:47 PM	9/27/2011 14:03	0.039
17220	0.042	0.042	0.042	0.043	2:04:47 PM	9/27/2011 14:04	0.043
17280	0.045	0.046	0.046	0.047	2:05:47 PM	9/27/2011 14:05	0.047
17340	0.047	0.047	0.048	0.05	2:06:47 PM	9/27/2011 14:06	0.051
17400	0.049	0.049	0.05	0.05	2:07:47 PM	9/27/2011 14:07	0.051
17460	0.068	0.068	0.069	0.07	2:08:47 PM	9/27/2011 14:08	0.07
17520	0.053	0.054	0.055	0.057	2:09:47 PM	9/27/2011 14:09	0.058
17580	0.076	0.077	0.077	0.08	2:10:47 PM	9/27/2011 14:10	0.081
17640	0.058	0.059	0.06	0.065	2:11:47 PM	9/27/2011 14:11	0.065
17700	0.099	0.1	0.102	0.115	2:12:47 PM	9/27/2011 14:12	0.122
17760	0.046	0.046	0.046	0.048	2:13:47 PM	9/27/2011 14:13	0.048
17820	0.052	0.052	0.053	0.055	2:14:47 PM	9/27/2011 14:14	0.056
17880	0.044	0.044	0.045	0.047	2:15:47 PM	9/27/2011 14:15	0.048
17940	0.064	0.065	0.067	0.075	2:16:47 PM	9/27/2011 14:16	0.076
18000	0.043	0.043	0.044	0.045	2:17:47 PM	9/27/2011 14:17	0.045
18060	0.043	0.044	0.044	0.045	2:18:47 PM	9/27/2011 14:18	0.045
18120	0.042	0.042	0.043	0.043	2:19:47 PM	9/27/2011 14:19	0.044
18180	0.043	0.043	0.043	0.044	2:20:47 PM	9/27/2011 14:20	0.044
18240	0.043	0.044	0.044	0.045	2:21:47 PM	9/27/2011 14:21	0.045
18300	0.056	0.057	0.058	0.061	2:22:47 PM	9/27/2011 14:22	0.061
18360	0.053	0.053	0.053	0.054	2:23:47 PM	9/27/2011 14:23	0.054
18420	0.037	0.037	0.038	0.038	2:24:47 PM	9/27/2011 14:24	0.038
18480	0.042	0.042	0.043	0.044	2:25:47 PM	9/27/2011 14:25	0.044
18540	0.05	0.05	0.051	0.054	2:26:47 PM	9/27/2011 14:26	0.054
18600	0.053	0.054	0.055	0.059	2:27:47 PM	9/27/2011 14:27	0.061
18660	0.046	0.046	0.046	0.048	2:28:47 PM	9/27/2011 14:28	0.049

18720	0.074	0.075	0.076	0.078	2:29:47 PM	9/27/2011 14:29	0.079
18780	0.053	0.053	0.054	0.056	2:30:47 PM	9/27/2011 14:30	0.056
18840	0.04	0.04	0.04	0.041	2:31:47 PM	9/27/2011 14:31	0.041
18900	0.041	0.041	0.041	0.042	2:32:47 PM	9/27/2011 14:32	0.042
18960	0.042	0.042	0.042	0.043	2:33:47 PM	9/27/2011 14:33	0.043
19020	0.044	0.045	0.045	0.045	2:34:47 PM	9/27/2011 14:34	0.045
19080	0.042	0.042	0.042	0.043	2:35:47 PM	9/27/2011 14:35	0.043
19140	0.049	0.049	0.05	0.051	2:36:47 PM	9/27/2011 14:36	0.052
19200	0.051	0.052	0.053	0.055	2:37:47 PM	9/27/2011 14:37	0.056
19260	0.049	0.05	0.052	0.056	2:38:47 PM	9/27/2011 14:38	0.058
19320	0.044	0.045	0.046	0.048	2:39:47 PM	9/27/2011 14:39	0.049
19380	0.053	0.053	0.053	0.056	2:40:47 PM	9/27/2011 14:40	0.056
19440	0.044	0.044	0.045	0.046	2:41:47 PM	9/27/2011 14:41	0.046
19500	0.052	0.052	0.053	0.054	2:42:47 PM	9/27/2011 14:42	0.054
19560	0.051	0.052	0.053	0.056	2:43:47 PM	9/27/2011 14:43	0.056
19620	0.045	0.046	0.046	0.047	2:44:47 PM	9/27/2011 14:44	0.047
19680	0.049	0.05	0.051	0.053	2:45:47 PM	9/27/2011 14:45	0.054
19740	0.058	0.059	0.061	0.067	2:46:47 PM	9/27/2011 14:46	0.067
19800	0.051	0.051	0.052	0.054	2:47:47 PM	9/27/2011 14:47	0.054
19860	0.037	0.037	0.038	0.038	2:48:47 PM	9/27/2011 14:48	0.038
19920	0.053	0.054	0.054	0.056	2:49:47 PM	9/27/2011 14:49	0.056
19980	0.055	0.055	0.056	0.057	2:50:47 PM	9/27/2011 14:50	0.057
20040	0.04	0.04	0.04	0.042	2:51:47 PM	9/27/2011 14:51	0.042
20100	0.043	0.044	0.044	0.046	2:52:47 PM	9/27/2011 14:52	0.047
20160	0.043	0.044	0.045	0.047	2:53:47 PM	9/27/2011 14:53	0.047
20220	0.047	0.048	0.049	0.051	2:54:47 PM	9/27/2011 14:54	0.052
20280	0.049	0.05	0.051	0.052	2:55:47 PM	9/27/2011 14:55	0.052

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_002
Test Start Time	8:31:33 AM
Test Start Date	10/20/2011
Test Length [D:H:M]	0:09:10
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.015
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.074
PM1 TWA [mg/m3]	0.015
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.075
PM2.5 TWA [mg/m3]	0.016
PM4 Average [mg/m3]	0.016
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.082
PM4 TWA [mg/m3]	0.017
PM10 Average [mg/m3]	0.019
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	0.165
PM10 TWA [mg/m3]	0.019
TOTAL Average [mg/m3]	0.02
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	0.461
TOTAL TWA [mg/m3]	0.021
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	550



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	8:31:33 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.03	0.033	0.034	0.037	8:32:33 AM	10/20/2011 8:32	0.037		
120	0.032	0.034	0.036	0.038	8:33:33 AM	10/20/2011 8:33	0.04		
180	0.032	0.035	0.037	0.04	8:34:33 AM	10/20/2011 8:34	0.044		
240	0.031	0.033	0.035	0.04	8:35:33 AM	10/20/2011 8:35	0.045		
300	0.031	0.034	0.036	0.042	8:36:33 AM	10/20/2011 8:36	0.047		
360	0.033	0.036	0.038	0.045	8:37:33 AM	10/20/2011 8:37	0.049		
420	0.034	0.036	0.039	0.045	8:38:33 AM	10/20/2011 8:38	0.052		
480	0.063	0.066	0.072	0.135	8:39:33 AM	10/20/2011 8:39	0.461		
540	0.071	0.073	0.076	0.099	8:40:33 AM	10/20/2011 8:40	0.123		
600	0.027	0.028	0.029	0.032	8:41:33 AM	10/20/2011 8:41	0.033		
660	0.026	0.028	0.029	0.03	8:42:33 AM	10/20/2011 8:42	0.03		
720	0.025	0.026	0.027	0.028	8:43:33 AM	10/20/2011 8:43	0.028		
780	0.024	0.025	0.026	0.028	8:44:33 AM	10/20/2011 8:44	0.028		
840	0.024	0.025	0.026	0.028	8:45:33 AM	10/20/2011 8:45	0.028		
900	0.025	0.026	0.027	0.028	8:46:33 AM	10/20/2011 8:46	0.028		
960	0.023	0.023	0.024	0.025	8:47:33 AM	10/20/2011 8:47	0.025		
1020	0.022	0.023	0.024	0.024	8:48:33 AM	10/20/2011 8:48	0.025		
1080	0.021	0.021	0.022	0.023	8:49:33 AM	10/20/2011 8:49	0.024		
1140	0.02	0.02	0.021	0.023	8:50:33 AM	10/20/2011 8:50	0.023		
1200	0.019	0.02	0.021	0.022	8:51:33 AM	10/20/2011 8:51	0.022		
1260	0.019	0.02	0.021	0.022	8:52:33 AM	10/20/2011 8:52	0.022		
1320	0.018	0.018	0.019	0.02	8:53:33 AM	10/20/2011 8:53	0.02		
1380	0.017	0.018	0.018	0.02	8:54:33 AM	10/20/2011 8:54	0.02		
1440	0.017	0.018	0.019	0.02	8:55:33 AM	10/20/2011 8:55	0.02		
1500	0.019	0.02	0.021	0.022	8:56:33 AM	10/20/2011 8:56	0.022		
1560	0.018	0.019	0.019	0.02	8:57:33 AM	10/20/2011 8:57	0.02		
1620	0.018	0.018	0.019	0.02	8:58:33 AM	10/20/2011 8:58	0.021		
1680	0.018	0.019	0.02	0.02	8:59:33 AM	10/20/2011 8:59	0.021		
1740	0.019	0.019	0.02	0.021	9:00:33 AM	10/20/2011 9:00	0.021		
1800	0.019	0.019	0.02	0.021	9:01:33 AM	10/20/2011 9:01	0.021		
1860	0.019	0.019	0.02	0.021	9:02:33 AM	10/20/2011 9:02	0.021		
1920	0.018	0.019	0.02	0.02	9:03:33 AM	10/20/2011 9:03	0.02		
1980	0.018	0.018	0.019	0.021	9:04:33 AM	10/20/2011 9:04	0.021		
2040	0.019	0.019	0.02	0.021	9:05:33 AM	10/20/2011 9:05	0.021		
2100	0.019	0.019	0.02	0.021	9:06:33 AM	10/20/2011 9:06	0.021		
2160	0.018	0.019	0.02	0.02	9:07:33 AM	10/20/2011 9:07	0.021		
2220	0.019	0.019	0.02	0.021	9:08:33 AM	10/20/2011 9:08	0.022		
2280	0.02	0.021	0.022	0.023	9:09:33 AM	10/20/2011 9:09	0.024		
2340	0.02	0.02	0.021	0.022	9:10:33 AM	10/20/2011 9:10	0.022		
2400	0.019	0.02	0.02	0.021	9:11:33 AM	10/20/2011 9:11	0.021		
2460	0.019	0.02	0.02	0.022	9:12:33 AM	10/20/2011 9:12	0.022		
2520	0.018	0.019	0.019	0.02	9:13:33 AM	10/20/2011 9:13	0.021		
2580	0.018	0.019	0.02	0.021	9:14:33 AM	10/20/2011 9:14	0.021		
2640	0.02	0.021	0.022	0.024	9:15:33 AM	10/20/2011 9:15	0.024		
2700	0.019	0.019	0.02	0.021	9:16:33 AM	10/20/2011 9:16	0.021		
2760	0.019	0.019	0.02	0.021	9:17:33 AM	10/20/2011 9:17	0.021		
2820	0.018	0.018	0.019	0.02	9:18:33 AM	10/20/2011 9:18	0.021		
2880	0.018	0.019	0.02	0.021	9:19:33 AM	10/20/2011 9:19	0.021		
2940	0.021	0.021	0.022	0.024	9:20:33 AM	10/20/2011 9:20	0.025		
3000	0.018	0.019	0.02	0.021	9:21:33 AM	10/20/2011 9:21	0.022		
3060	0.02	0.02	0.021	0.023	9:22:33 AM	10/20/2011 9:22	0.023		
3120	0.018	0.019	0.019	0.02	9:23:33 AM	10/20/2011 9:23	0.02		
3180	0.019	0.02	0.02	0.022	9:24:33 AM	10/20/2011 9:24	0.022		
3240	0.019	0.02	0.021	0.022	9:25:33 AM	10/20/2011 9:25	0.022		

3300	0.021	0.022	0.023	0.026	9:26:33 AM	10/20/2011 9:26	0.026
3360	0.02	0.021	0.022	0.023	9:27:33 AM	10/20/2011 9:27	0.023
3420	0.02	0.02	0.021	0.023	9:28:33 AM	10/20/2011 9:28	0.023
3480	0.019	0.02	0.02	0.021	9:29:33 AM	10/20/2011 9:29	0.022
3540	0.019	0.02	0.02	0.022	9:30:33 AM	10/20/2011 9:30	0.022
3600	0.019	0.02	0.021	0.022	9:31:33 AM	10/20/2011 9:31	0.022
3660	0.02	0.02	0.021	0.022	9:32:33 AM	10/20/2011 9:32	0.022
3720	0.02	0.021	0.022	0.023	9:33:33 AM	10/20/2011 9:33	0.023
3780	0.02	0.021	0.021	0.022	9:34:33 AM	10/20/2011 9:34	0.023
3840	0.021	0.022	0.023	0.024	9:35:33 AM	10/20/2011 9:35	0.025
3900	0.021	0.021	0.022	0.024	9:36:33 AM	10/20/2011 9:36	0.024
3960	0.02	0.02	0.021	0.022	9:37:33 AM	10/20/2011 9:37	0.022
4020	0.02	0.021	0.022	0.022	9:38:33 AM	10/20/2011 9:38	0.022
4080	0.02	0.021	0.022	0.023	9:39:33 AM	10/20/2011 9:39	0.023
4140	0.021	0.022	0.023	0.024	9:40:33 AM	10/20/2011 9:40	0.024
4200	0.019	0.02	0.021	0.022	9:41:33 AM	10/20/2011 9:41	0.022
4260	0.02	0.021	0.022	0.023	9:42:33 AM	10/20/2011 9:42	0.023
4320	0.019	0.02	0.02	0.022	9:43:33 AM	10/20/2011 9:43	0.022
4380	0.021	0.022	0.022	0.024	9:44:33 AM	10/20/2011 9:44	0.024
4440	0.018	0.019	0.019	0.021	9:45:33 AM	10/20/2011 9:45	0.021
4500	0.018	0.018	0.019	0.02	9:46:33 AM	10/20/2011 9:46	0.02
4560	0.018	0.018	0.019	0.02	9:47:33 AM	10/20/2011 9:47	0.02
4620	0.017	0.018	0.018	0.019	9:48:33 AM	10/20/2011 9:48	0.02
4680	0.022	0.023	0.024	0.026	9:49:33 AM	10/20/2011 9:49	0.026
4740	0.022	0.023	0.025	0.027	9:50:33 AM	10/20/2011 9:50	0.027
4800	0.024	0.026	0.028	0.03	9:51:33 AM	10/20/2011 9:51	0.03
4860	0.022	0.023	0.024	0.026	9:52:33 AM	10/20/2011 9:52	0.026
4920	0.019	0.019	0.02	0.022	9:53:33 AM	10/20/2011 9:53	0.022
4980	0.017	0.018	0.019	0.02	9:54:33 AM	10/20/2011 9:54	0.02
5040	0.017	0.018	0.019	0.02	9:55:33 AM	10/20/2011 9:55	0.02
5100	0.016	0.017	0.017	0.018	9:56:33 AM	10/20/2011 9:56	0.018
5160	0.017	0.017	0.018	0.018	9:57:33 AM	10/20/2011 9:57	0.018
5220	0.017	0.017	0.018	0.019	9:58:33 AM	10/20/2011 9:58	0.019
5280	0.017	0.017	0.018	0.019	9:59:33 AM	10/20/2011 9:59	0.019
5340	0.017	0.018	0.019	0.02	10:00:33 AM	10/20/2011 10:00	0.021
5400	0.019	0.019	0.02	0.021	10:01:33 AM	10/20/2011 10:01	0.021
5460	0.032	0.032	0.033	0.034	10:02:33 AM	10/20/2011 10:02	0.034
5520	0.026	0.026	0.027	0.028	10:03:33 AM	10/20/2011 10:03	0.029
5580	0.026	0.026	0.027	0.029	10:04:33 AM	10/20/2011 10:04	0.029
5640	0.026	0.026	0.028	0.031	10:05:33 AM	10/20/2011 10:05	0.031
5700	0.017	0.017	0.018	0.02	10:06:33 AM	10/20/2011 10:06	0.021
5760	0.016	0.016	0.017	0.018	10:07:33 AM	10/20/2011 10:07	0.018
5820	0.017	0.018	0.019	0.02	10:08:33 AM	10/20/2011 10:08	0.02
5880	0.021	0.022	0.022	0.024	10:09:33 AM	10/20/2011 10:09	0.024
5940	0.021	0.022	0.023	0.024	10:10:33 AM	10/20/2011 10:10	0.024
6000	0.022	0.022	0.023	0.025	10:11:33 AM	10/20/2011 10:11	0.025
6060	0.014	0.015	0.015	0.016	10:12:33 AM	10/20/2011 10:12	0.016
6120	0.02	0.021	0.022	0.023	10:13:33 AM	10/20/2011 10:13	0.023
6180	0.019	0.02	0.022	0.026	10:14:33 AM	10/20/2011 10:14	0.029
6240	0.018	0.018	0.019	0.021	10:15:33 AM	10/20/2011 10:15	0.021
6300	0.045	0.046	0.047	0.049	10:16:33 AM	10/20/2011 10:16	0.049
6360	0.038	0.039	0.04	0.042	10:17:33 AM	10/20/2011 10:17	0.042
6420	0.023	0.024	0.024	0.025	10:18:33 AM	10/20/2011 10:18	0.026
6480	0.018	0.019	0.019	0.021	10:19:33 AM	10/20/2011 10:19	0.021
6540	0.022	0.023	0.023	0.025	10:20:33 AM	10/20/2011 10:20	0.025
6600	0.021	0.022	0.023	0.026	10:21:33 AM	10/20/2011 10:21	0.027
6660	0.025	0.026	0.027	0.029	10:22:33 AM	10/20/2011 10:22	0.029
6720	0.022	0.023	0.024	0.026	10:23:33 AM	10/20/2011 10:23	0.027
6780	0.024	0.025	0.025	0.027	10:24:33 AM	10/20/2011 10:24	0.027
6840	0.023	0.024	0.025	0.028	10:25:33 AM	10/20/2011 10:25	0.029
6900	0.019	0.02	0.022	0.025	10:26:33 AM	10/20/2011 10:26	0.026
6960	0.018	0.018	0.019	0.021	10:27:33 AM	10/20/2011 10:27	0.022
7020	0.017	0.017	0.018	0.019	10:28:33 AM	10/20/2011 10:28	0.02
7080	0.018	0.019	0.02	0.022	10:29:33 AM	10/20/2011 10:29	0.023
7140	0.017	0.018	0.02	0.024	10:30:33 AM	10/20/2011 10:30	0.026
7200	0.015	0.016	0.017	0.021	10:31:33 AM	10/20/2011 10:31	0.021
7260	0.013	0.014	0.015	0.017	10:32:33 AM	10/20/2011 10:32	0.017
7320	0.013	0.013	0.014	0.016	10:33:33 AM	10/20/2011 10:33	0.016
7380	0.012	0.013	0.014	0.015	10:34:33 AM	10/20/2011 10:34	0.015
7440	0.014	0.015	0.016	0.018	10:35:33 AM	10/20/2011 10:35	0.018
7500	0.018	0.019	0.021	0.025	10:36:33 AM	10/20/2011 10:36	0.03
7560	0.014	0.015	0.016	0.019	10:37:33 AM	10/20/2011 10:37	0.021
7620	0.015	0.015	0.016	0.02	10:38:33 AM	10/20/2011 10:38	0.021
7680	0.014	0.015	0.016	0.02	10:39:33 AM	10/20/2011 10:39	0.021
7740	0.015	0.015	0.017	0.02	10:40:33 AM	10/20/2011 10:40	0.021
7800	0.015	0.016	0.018	0.021	10:41:33 AM	10/20/2011 10:41	0.021
7860	0.015	0.015	0.016	0.018	10:42:33 AM	10/20/2011 10:42	0.018
7920	0.03	0.031	0.035	0.048	10:43:33 AM	10/20/2011 10:43	0.054
7980	0.021	0.022	0.024	0.033	10:44:33 AM	10/20/2011 10:44	0.035
8040	0.019	0.02	0.022	0.028	10:45:33 AM	10/20/2011 10:45	0.029
8100	0.02	0.021	0.023	0.027	10:46:33 AM	10/20/2011 10:46	0.028
8160	0.02	0.02	0.022	0.027	10:47:33 AM	10/20/2011 10:47	0.029
8220	0.029	0.03	0.031	0.037	10:48:33 AM	10/20/2011 10:48	0.041
8280	0.015	0.015	0.016	0.018	10:49:33 AM	10/20/2011 10:49	0.018
8340	0.014	0.015	0.016	0.017	10:50:33 AM	10/20/2011 10:50	0.018
8400	0.014	0.014	0.015	0.016	10:51:33 AM	10/20/2011 10:51	0.017
8460	0.014	0.015	0.015	0.017	10:52:33 AM	10/20/2011 10:52	0.018
8520	0.014	0.015	0.016	0.018	10:53:33 AM	10/20/2011 10:53	0.018
8580	0.013	0.014	0.014	0.016	10:54:33 AM	10/20/2011 10:54	0.017
8640	0.014	0.014	0.015	0.018	10:55:33 AM	10/20/2011 10:55	0.019
8700	0.012	0.012	0.013	0.014	10:56:33 AM	10/20/2011 10:56	0.014

8760	0.013	0.013	0.014	0.015	10:57:33 AM	10/20/2011 10:57	0.016
8820	0.012	0.013	0.013	0.014	10:58:33 AM	10/20/2011 10:58	0.015
8880	0.013	0.014	0.014	0.016	10:59:33 AM	10/20/2011 10:59	0.016
8940	0.013	0.013	0.014	0.015	11:00:33 AM	10/20/2011 11:00	0.015
9000	0.018	0.02	0.022	0.027	11:01:33 AM	10/20/2011 11:01	0.028
9060	0.032	0.033	0.034	0.039	11:02:33 AM	10/20/2011 11:02	0.041
9120	0.014	0.015	0.016	0.017	11:03:33 AM	10/20/2011 11:03	0.017
9180	0.015	0.015	0.017	0.018	11:04:33 AM	10/20/2011 11:04	0.019
9240	0.014	0.014	0.015	0.018	11:05:33 AM	10/20/2011 11:05	0.018
9300	0.014	0.015	0.015	0.016	11:06:33 AM	10/20/2011 11:06	0.017
9360	0.014	0.014	0.015	0.016	11:07:33 AM	10/20/2011 11:07	0.017
9420	0.015	0.015	0.016	0.018	11:08:33 AM	10/20/2011 11:08	0.018
9480	0.017	0.018	0.019	0.021	11:09:33 AM	10/20/2011 11:09	0.022
9540	0.018	0.018	0.019	0.02	11:10:33 AM	10/20/2011 11:10	0.02
9600	0.013	0.013	0.014	0.014	11:11:33 AM	10/20/2011 11:11	0.014
9660	0.014	0.015	0.015	0.018	11:12:33 AM	10/20/2011 11:12	0.018
9720	0.014	0.015	0.015	0.017	11:13:33 AM	10/20/2011 11:13	0.018
9780	0.018	0.018	0.019	0.021	11:14:33 AM	10/20/2011 11:14	0.022
9840	0.016	0.016	0.017	0.019	11:15:33 AM	10/20/2011 11:15	0.019
9900	0.012	0.012	0.013	0.014	11:16:33 AM	10/20/2011 11:16	0.014
9960	0.014	0.014	0.015	0.017	11:17:33 AM	10/20/2011 11:17	0.018
10020	0.014	0.014	0.015	0.018	11:18:33 AM	10/20/2011 11:18	0.018
10080	0.014	0.015	0.016	0.018	11:19:33 AM	10/20/2011 11:19	0.018
10140	0.016	0.016	0.017	0.02	11:20:33 AM	10/20/2011 11:20	0.02
10200	0.016	0.017	0.018	0.021	11:21:33 AM	10/20/2011 11:21	0.023
10260	0.015	0.015	0.016	0.018	11:22:33 AM	10/20/2011 11:22	0.018
10320	0.018	0.018	0.019	0.021	11:23:33 AM	10/20/2011 11:23	0.022
10380	0.019	0.019	0.02	0.022	11:24:33 AM	10/20/2011 11:24	0.022
10440	0.015	0.015	0.016	0.017	11:25:33 AM	10/20/2011 11:25	0.017
10500	0.014	0.014	0.015	0.017	11:26:33 AM	10/20/2011 11:26	0.017
10560	0.013	0.014	0.014	0.016	11:27:33 AM	10/20/2011 11:27	0.016
10620	0.013	0.014	0.014	0.016	11:28:33 AM	10/20/2011 11:28	0.016
10680	0.013	0.013	0.014	0.015	11:29:33 AM	10/20/2011 11:29	0.015
10740	0.013	0.013	0.014	0.015	11:30:33 AM	10/20/2011 11:30	0.015
10800	0.013	0.014	0.014	0.016	11:31:33 AM	10/20/2011 11:31	0.017
10860	0.013	0.013	0.014	0.015	11:32:33 AM	10/20/2011 11:32	0.016
10920	0.014	0.015	0.016	0.018	11:33:33 AM	10/20/2011 11:33	0.019
10980	0.016	0.017	0.018	0.02	11:34:33 AM	10/20/2011 11:34	0.021
11040	0.014	0.014	0.015	0.018	11:35:33 AM	10/20/2011 11:35	0.019
11100	0.013	0.013	0.014	0.017	11:36:33 AM	10/20/2011 11:36	0.017
11160	0.014	0.015	0.016	0.018	11:37:33 AM	10/20/2011 11:37	0.018
11220	0.013	0.014	0.014	0.016	11:38:33 AM	10/20/2011 11:38	0.016
11280	0.015	0.015	0.016	0.019	11:39:33 AM	10/20/2011 11:39	0.02
11340	0.015	0.015	0.016	0.018	11:40:33 AM	10/20/2011 11:40	0.018
11400	0.015	0.015	0.016	0.017	11:41:33 AM	10/20/2011 11:41	0.017
11460	0.012	0.012	0.013	0.014	11:42:33 AM	10/20/2011 11:42	0.014
11520	0.013	0.013	0.014	0.015	11:43:33 AM	10/20/2011 11:43	0.015
11580	0.015	0.015	0.016	0.02	11:44:33 AM	10/20/2011 11:44	0.021
11640	0.013	0.013	0.014	0.016	11:45:33 AM	10/20/2011 11:45	0.017
11700	0.013	0.013	0.013	0.015	11:46:33 AM	10/20/2011 11:46	0.015
11760	0.013	0.013	0.014	0.015	11:47:33 AM	10/20/2011 11:47	0.016
11820	0.014	0.014	0.015	0.017	11:48:33 AM	10/20/2011 11:48	0.017
11880	0.014	0.015	0.016	0.019	11:49:33 AM	10/20/2011 11:49	0.02
11940	0.014	0.014	0.015	0.017	11:50:33 AM	10/20/2011 11:50	0.017
12000	0.016	0.016	0.018	0.019	11:51:33 AM	10/20/2011 11:51	0.02
12060	0.015	0.015	0.016	0.017	11:52:33 AM	10/20/2011 11:52	0.018
12120	0.013	0.013	0.014	0.015	11:53:33 AM	10/20/2011 11:53	0.015
12180	0.016	0.017	0.017	0.02	11:54:33 AM	10/20/2011 11:54	0.02
12240	0.014	0.015	0.015	0.017	11:55:33 AM	10/20/2011 11:55	0.017
12300	0.011	0.012	0.012	0.013	11:56:33 AM	10/20/2011 11:56	0.013
12360	0.012	0.012	0.013	0.014	11:57:33 AM	10/20/2011 11:57	0.014
12420	0.013	0.013	0.014	0.015	11:58:33 AM	10/20/2011 11:58	0.015
12480	0.014	0.015	0.016	0.019	11:59:33 AM	10/20/2011 11:59	0.02
12540	0.012	0.013	0.013	0.015	12:00:33 PM	10/20/2011 12:00	0.016
12600	0.013	0.013	0.014	0.015	12:01:33 PM	10/20/2011 12:01	0.016
12660	0.014	0.014	0.015	0.016	12:02:33 PM	10/20/2011 12:02	0.018
12720	0.015	0.016	0.016	0.017	12:03:33 PM	10/20/2011 12:03	0.018
12780	0.014	0.014	0.015	0.016	12:04:33 PM	10/20/2011 12:04	0.017
12840	0.013	0.013	0.014	0.015	12:05:33 PM	10/20/2011 12:05	0.016
12900	0.018	0.018	0.019	0.024	12:06:33 PM	10/20/2011 12:06	0.024
12960	0.014	0.014	0.015	0.017	12:07:33 PM	10/20/2011 12:07	0.017
13020	0.013	0.014	0.014	0.016	12:08:33 PM	10/20/2011 12:08	0.016
13080	0.015	0.016	0.017	0.019	12:09:33 PM	10/20/2011 12:09	0.02
13140	0.012	0.012	0.013	0.015	12:10:33 PM	10/20/2011 12:10	0.015
13200	0.014	0.015	0.016	0.018	12:11:33 PM	10/20/2011 12:11	0.018
13260	0.015	0.015	0.016	0.018	12:12:33 PM	10/20/2011 12:12	0.019
13320	0.012	0.013	0.013	0.016	12:13:33 PM	10/20/2011 12:13	0.016
13380	0.016	0.017	0.018	0.023	12:14:33 PM	10/20/2011 12:14	0.024
13440	0.014	0.014	0.015	0.018	12:15:33 PM	10/20/2011 12:15	0.018
13500	0.019	0.02	0.021	0.023	12:16:33 PM	10/20/2011 12:16	0.023
13560	0.013	0.013	0.014	0.017	12:17:33 PM	10/20/2011 12:17	0.017
13620	0.012	0.012	0.013	0.014	12:18:33 PM	10/20/2011 12:18	0.014
13680	0.012	0.012	0.013	0.014	12:19:33 PM	10/20/2011 12:19	0.014
13740	0.014	0.014	0.015	0.017	12:20:33 PM	10/20/2011 12:20	0.018
13800	0.015	0.015	0.017	0.019	12:21:33 PM	10/20/2011 12:21	0.02
13860	0.013	0.014	0.015	0.018	12:22:33 PM	10/20/2011 12:22	0.019
13920	0.011	0.011	0.012	0.014	12:23:33 PM	10/20/2011 12:23	0.016
13980	0.017	0.018	0.021	0.027	12:24:33 PM	10/20/2011 12:24	0.028
14040	0.014	0.015	0.016	0.019	12:25:33 PM	10/20/2011 12:25	0.021
14100	0.012	0.012	0.013	0.015	12:26:33 PM	10/20/2011 12:26	0.015
14160	0.013	0.013	0.014	0.016	12:27:33 PM	10/20/2011 12:27	0.017

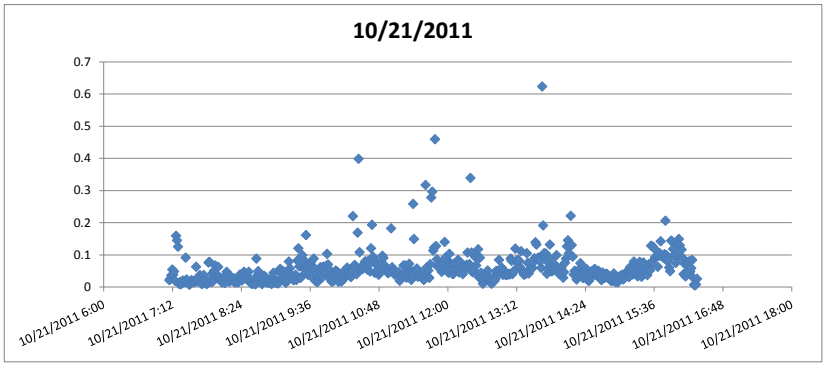
14220	0.013	0.014	0.015	0.016	12:28:33 PM	10/20/2011 12:28	0.016
14280	0.015	0.015	0.016	0.018	12:29:33 PM	10/20/2011 12:29	0.018
14340	0.018	0.018	0.019	0.021	12:30:33 PM	10/20/2011 12:30	0.023
14400	0.014	0.014	0.015	0.017	12:31:33 PM	10/20/2011 12:31	0.02
14460	0.012	0.013	0.013	0.015	12:32:33 PM	10/20/2011 12:32	0.016
14520	0.012	0.012	0.013	0.014	12:33:33 PM	10/20/2011 12:33	0.015
14580	0.012	0.012	0.013	0.014	12:34:33 PM	10/20/2011 12:34	0.014
14640	0.015	0.015	0.016	0.017	12:35:33 PM	10/20/2011 12:35	0.018
14700	0.016	0.016	0.017	0.019	12:36:33 PM	10/20/2011 12:36	0.025
14760	0.013	0.014	0.015	0.017	12:37:33 PM	10/20/2011 12:37	0.018
14820	0.013	0.013	0.014	0.016	12:38:33 PM	10/20/2011 12:38	0.017
14880	0.012	0.013	0.014	0.016	12:39:33 PM	10/20/2011 12:39	0.016
14940	0.013	0.014	0.015	0.018	12:40:33 PM	10/20/2011 12:40	0.02
15000	0.011	0.012	0.013	0.015	12:41:33 PM	10/20/2011 12:41	0.015
15060	0.014	0.015	0.016	0.019	12:42:33 PM	10/20/2011 12:42	0.02
15120	0.012	0.012	0.013	0.014	12:43:33 PM	10/20/2011 12:43	0.016
15180	0.011	0.011	0.012	0.014	12:44:33 PM	10/20/2011 12:44	0.014
15240	0.011	0.011	0.012	0.013	12:45:33 PM	10/20/2011 12:45	0.014
15300	0.01	0.011	0.011	0.012	12:46:33 PM	10/20/2011 12:46	0.013
15360	0.011	0.011	0.012	0.012	12:47:33 PM	10/20/2011 12:47	0.012
15420	0.011	0.011	0.012	0.013	12:48:33 PM	10/20/2011 12:48	0.013
15480	0.011	0.011	0.011	0.012	12:49:33 PM	10/20/2011 12:49	0.012
15540	0.011	0.011	0.012	0.013	12:50:33 PM	10/20/2011 12:50	0.013
15600	0.012	0.013	0.013	0.015	12:51:33 PM	10/20/2011 12:51	0.016
15660	0.013	0.013	0.014	0.017	12:52:33 PM	10/20/2011 12:52	0.017
15720	0.012	0.012	0.013	0.014	12:53:33 PM	10/20/2011 12:53	0.014
15780	0.011	0.012	0.012	0.014	12:54:33 PM	10/20/2011 12:54	0.015
15840	0.014	0.014	0.015	0.017	12:55:33 PM	10/20/2011 12:55	0.017
15900	0.015	0.015	0.017	0.019	12:56:33 PM	10/20/2011 12:56	0.02
15960	0.012	0.013	0.014	0.015	12:57:33 PM	10/20/2011 12:57	0.015
16020	0.014	0.015	0.016	0.018	12:58:33 PM	10/20/2011 12:58	0.019
16080	0.034	0.038	0.045	0.06	12:59:33 PM	10/20/2011 12:59	0.062
16140	0.029	0.032	0.037	0.048	1:00:33 PM	10/20/2011 13:00	0.051
16200	0.017	0.018	0.02	0.027	1:01:33 PM	10/20/2011 13:01	0.031
16260	0.014	0.015	0.016	0.02	1:02:33 PM	10/20/2011 13:02	0.022
16320	0.015	0.016	0.018	0.022	1:03:33 PM	10/20/2011 13:03	0.023
16380	0.011	0.012	0.012	0.014	1:04:33 PM	10/20/2011 13:04	0.014
16440	0.013	0.014	0.015	0.017	1:05:33 PM	10/20/2011 13:05	0.018
16500	0.012	0.013	0.014	0.017	1:06:33 PM	10/20/2011 13:06	0.018
16560	0.023	0.025	0.028	0.041	1:07:33 PM	10/20/2011 13:07	0.044
16620	0.023	0.025	0.029	0.041	1:08:33 PM	10/20/2011 13:08	0.045
16680	0.013	0.014	0.015	0.018	1:09:33 PM	10/20/2011 13:09	0.019
16740	0.011	0.011	0.012	0.014	1:10:33 PM	10/20/2011 13:10	0.014
16800	0.012	0.013	0.014	0.015	1:11:33 PM	10/20/2011 13:11	0.016
16860	0.016	0.016	0.017	0.019	1:12:33 PM	10/20/2011 13:12	0.019
16920	0.012	0.012	0.013	0.015	1:13:33 PM	10/20/2011 13:13	0.015
16980	0.011	0.011	0.012	0.013	1:14:33 PM	10/20/2011 13:14	0.014
17040	0.011	0.012	0.013	0.015	1:15:33 PM	10/20/2011 13:15	0.016
17100	0.012	0.012	0.013	0.016	1:16:33 PM	10/20/2011 13:16	0.016
17160	0.012	0.012	0.013	0.015	1:17:33 PM	10/20/2011 13:17	0.016
17220	0.019	0.02	0.022	0.028	1:18:33 PM	10/20/2011 13:18	0.03
17280	0.022	0.023	0.026	0.029	1:19:33 PM	10/20/2011 13:19	0.032
17340	0.019	0.021	0.022	0.028	1:20:33 PM	10/20/2011 13:20	0.031
17400	0.016	0.017	0.018	0.021	1:21:33 PM	10/20/2011 13:21	0.022
17460	0.014	0.015	0.016	0.018	1:22:33 PM	10/20/2011 13:22	0.018
17520	0.015	0.016	0.017	0.019	1:23:33 PM	10/20/2011 13:23	0.021
17580	0.011	0.012	0.012	0.015	1:24:33 PM	10/20/2011 13:24	0.016
17640	0.011	0.012	0.013	0.015	1:25:33 PM	10/20/2011 13:25	0.015
17700	0.01	0.01	0.011	0.013	1:26:33 PM	10/20/2011 13:26	0.013
17760	0.01	0.01	0.011	0.013	1:27:33 PM	10/20/2011 13:27	0.013
17820	0.009	0.009	0.01	0.012	1:28:33 PM	10/20/2011 13:28	0.012
17880	0.009	0.009	0.01	0.012	1:29:33 PM	10/20/2011 13:29	0.012
17940	0.011	0.011	0.012	0.014	1:30:33 PM	10/20/2011 13:30	0.014
18000	0.014	0.014	0.016	0.018	1:31:33 PM	10/20/2011 13:31	0.019
18060	0.01	0.011	0.011	0.014	1:32:33 PM	10/20/2011 13:32	0.016
18120	0.015	0.016	0.017	0.023	1:33:33 PM	10/20/2011 13:33	0.025
18180	0.013	0.013	0.014	0.017	1:34:33 PM	10/20/2011 13:34	0.018
18240	0.01	0.01	0.011	0.013	1:35:33 PM	10/20/2011 13:35	0.014
18300	0.009	0.009	0.01	0.012	1:36:33 PM	10/20/2011 13:36	0.012
18360	0.008	0.008	0.008	0.009	1:37:33 PM	10/20/2011 13:37	0.01
18420	0.01	0.011	0.011	0.012	1:38:33 PM	10/20/2011 13:38	0.013
18480	0.009	0.009	0.01	0.011	1:39:33 PM	10/20/2011 13:39	0.011
18540	0.01	0.01	0.01	0.012	1:40:33 PM	10/20/2011 13:40	0.013
18600	0.014	0.015	0.016	0.02	1:41:33 PM	10/20/2011 13:41	0.02
18660	0.017	0.018	0.02	0.025	1:42:33 PM	10/20/2011 13:42	0.028
18720	0.025	0.026	0.03	0.047	1:43:33 PM	10/20/2011 13:43	0.05
18780	0.061	0.065	0.082	0.165	1:44:33 PM	10/20/2011 13:44	0.187
18840	0.021	0.022	0.025	0.042	1:45:33 PM	10/20/2011 13:45	0.047
18900	0.012	0.013	0.014	0.019	1:46:33 PM	10/20/2011 13:46	0.02
18960	0.009	0.009	0.009	0.011	1:47:33 PM	10/20/2011 13:47	0.012
19020	0.01	0.011	0.012	0.016	1:48:33 PM	10/20/2011 13:48	0.017
19080	0.01	0.01	0.012	0.015	1:49:33 PM	10/20/2011 13:49	0.015
19140	0.011	0.011	0.013	0.017	1:50:33 PM	10/20/2011 13:50	0.018
19200	0.011	0.011	0.012	0.016	1:51:33 PM	10/20/2011 13:51	0.017
19260	0.012	0.013	0.014	0.021	1:52:33 PM	10/20/2011 13:52	0.024
19320	0.011	0.012	0.013	0.017	1:53:33 PM	10/20/2011 13:53	0.019
19380	0.015	0.015	0.016	0.018	1:54:33 PM	10/20/2011 13:54	0.019
19440	0.012	0.013	0.013	0.016	1:55:33 PM	10/20/2011 13:55	0.017
19500	0.014	0.015	0.016	0.02	1:56:33 PM	10/20/2011 13:56	0.022
19560	0.01	0.01	0.011	0.012	1:57:33 PM	10/20/2011 13:57	0.013
19620	0.012	0.012	0.013	0.015	1:58:33 PM	10/20/2011 13:58	0.015

19680	0.012	0.012	0.013	0.016	1:59:33 PM	10/20/2011 13:59	0.017
19740	0.012	0.013	0.014	0.016	2:00:33 PM	10/20/2011 14:00	0.017
19800	0.018	0.019	0.02	0.025	2:01:33 PM	10/20/2011 14:01	0.027
19860	0.01	0.011	0.012	0.014	2:02:33 PM	10/20/2011 14:02	0.015
19920	0.009	0.009	0.01	0.013	2:03:33 PM	10/20/2011 14:03	0.014
19980	0.01	0.01	0.011	0.011	2:04:33 PM	10/20/2011 14:04	0.011
20040	0.009	0.009	0.01	0.012	2:05:33 PM	10/20/2011 14:05	0.012
20100	0.009	0.009	0.009	0.011	2:06:33 PM	10/20/2011 14:06	0.012
20160	0.01	0.011	0.011	0.013	2:07:33 PM	10/20/2011 14:07	0.014
20220	0.012	0.012	0.013	0.015	2:08:33 PM	10/20/2011 14:08	0.016
20280	0.012	0.012	0.013	0.015	2:09:33 PM	10/20/2011 14:09	0.015
20340	0.01	0.011	0.012	0.014	2:10:33 PM	10/20/2011 14:10	0.015
20400	0.011	0.012	0.013	0.014	2:11:33 PM	10/20/2011 14:11	0.015
20460	0.014	0.014	0.015	0.018	2:12:33 PM	10/20/2011 14:12	0.02
20520	0.01	0.01	0.011	0.013	2:13:33 PM	10/20/2011 14:13	0.014
20580	0.013	0.014	0.015	0.02	2:14:33 PM	10/20/2011 14:14	0.022
20640	0.017	0.018	0.019	0.022	2:15:33 PM	10/20/2011 14:15	0.023
20700	0.012	0.012	0.013	0.015	2:16:33 PM	10/20/2011 14:16	0.016
20760	0.01	0.01	0.011	0.013	2:17:33 PM	10/20/2011 14:17	0.016
20820	0.008	0.009	0.009	0.01	2:18:33 PM	10/20/2011 14:18	0.011
20880	0.009	0.009	0.009	0.011	2:19:33 PM	10/20/2011 14:19	0.011
20940	0.008	0.009	0.009	0.01	2:20:33 PM	10/20/2011 14:20	0.01
21000	0.009	0.01	0.01	0.011	2:21:33 PM	10/20/2011 14:21	0.011
21060	0.01	0.01	0.01	0.012	2:22:33 PM	10/20/2011 14:22	0.012
21120	0.009	0.01	0.01	0.011	2:23:33 PM	10/20/2011 14:23	0.011
21180	0.009	0.009	0.01	0.011	2:24:33 PM	10/20/2011 14:24	0.011
21240	0.01	0.01	0.011	0.011	2:25:33 PM	10/20/2011 14:25	0.011
21300	0.011	0.012	0.012	0.013	2:26:33 PM	10/20/2011 14:26	0.015
21360	0.012	0.012	0.013	0.015	2:27:33 PM	10/20/2011 14:27	0.016
21420	0.011	0.011	0.012	0.015	2:28:33 PM	10/20/2011 14:28	0.016
21480	0.014	0.014	0.015	0.017	2:29:33 PM	10/20/2011 14:29	0.018
21540	0.011	0.011	0.012	0.014	2:30:33 PM	10/20/2011 14:30	0.016
21600	0.009	0.01	0.01	0.012	2:31:33 PM	10/20/2011 14:31	0.012
21660	0.011	0.011	0.012	0.015	2:32:33 PM	10/20/2011 14:32	0.015
21720	0.009	0.009	0.01	0.011	2:33:33 PM	10/20/2011 14:33	0.012
21780	0.01	0.01	0.011	0.012	2:34:33 PM	10/20/2011 14:34	0.013
21840	0.01	0.01	0.011	0.013	2:35:33 PM	10/20/2011 14:35	0.013
21900	0.009	0.009	0.01	0.012	2:36:33 PM	10/20/2011 14:36	0.012
21960	0.009	0.01	0.011	0.013	2:37:33 PM	10/20/2011 14:37	0.013
22020	0.009	0.009	0.01	0.011	2:38:33 PM	10/20/2011 14:38	0.012
22080	0.009	0.009	0.01	0.011	2:39:33 PM	10/20/2011 14:39	0.012
22140	0.009	0.01	0.011	0.012	2:40:33 PM	10/20/2011 14:40	0.012
22200	0.01	0.011	0.012	0.015	2:41:33 PM	10/20/2011 14:41	0.016
22260	0.009	0.01	0.01	0.012	2:42:33 PM	10/20/2011 14:42	0.012
22320	0.009	0.01	0.01	0.011	2:43:33 PM	10/20/2011 14:43	0.012
22380	0.01	0.01	0.011	0.013	2:44:33 PM	10/20/2011 14:44	0.014
22440	0.015	0.016	0.017	0.02	2:45:33 PM	10/20/2011 14:45	0.023
22500	0.01	0.011	0.011	0.013	2:46:33 PM	10/20/2011 14:46	0.014
22560	0.009	0.009	0.01	0.011	2:47:33 PM	10/20/2011 14:47	0.012
22620	0.011	0.011	0.012	0.014	2:48:33 PM	10/20/2011 14:48	0.015
22680	0.008	0.009	0.009	0.01	2:49:33 PM	10/20/2011 14:49	0.01
22740	0.009	0.009	0.009	0.011	2:50:33 PM	10/20/2011 14:50	0.011
22800	0.014	0.015	0.016	0.017	2:51:33 PM	10/20/2011 14:51	0.017
22860	0.014	0.015	0.016	0.02	2:52:33 PM	10/20/2011 14:52	0.02
22920	0.016	0.016	0.018	0.022	2:53:33 PM	10/20/2011 14:53	0.025
22980	0.009	0.009	0.01	0.011	2:54:33 PM	10/20/2011 14:54	0.011
23040	0.012	0.013	0.013	0.017	2:55:33 PM	10/20/2011 14:55	0.019
23100	0.01	0.011	0.011	0.013	2:56:33 PM	10/20/2011 14:56	0.014
23160	0.01	0.011	0.012	0.015	2:57:33 PM	10/20/2011 14:57	0.016
23220	0.009	0.009	0.01	0.012	2:58:33 PM	10/20/2011 14:58	0.012
23280	0.012	0.012	0.013	0.016	2:59:33 PM	10/20/2011 14:59	0.017
23340	0.016	0.016	0.017	0.021	3:00:33 PM	10/20/2011 15:00	0.023
23400	0.014	0.015	0.016	0.02	3:01:33 PM	10/20/2011 15:01	0.02
23460	0.013	0.014	0.015	0.018	3:02:33 PM	10/20/2011 15:02	0.02
23520	0.011	0.011	0.012	0.013	3:03:33 PM	10/20/2011 15:03	0.014
23580	0.01	0.011	0.011	0.012	3:04:33 PM	10/20/2011 15:04	0.012
23640	0.011	0.011	0.012	0.014	3:05:33 PM	10/20/2011 15:05	0.015
23700	0.009	0.009	0.01	0.011	3:06:33 PM	10/20/2011 15:06	0.012
23760	0.013	0.014	0.015	0.021	3:07:33 PM	10/20/2011 15:07	0.022
23820	0.012	0.012	0.013	0.017	3:08:33 PM	10/20/2011 15:08	0.019
23880	0.015	0.015	0.016	0.02	3:09:33 PM	10/20/2011 15:09	0.024
23940	0.01	0.01	0.011	0.013	3:10:33 PM	10/20/2011 15:10	0.014
24000	0.011	0.012	0.013	0.017	3:11:33 PM	10/20/2011 15:11	0.019
24060	0.009	0.01	0.01	0.013	3:12:33 PM	10/20/2011 15:12	0.013
24120	0.011	0.011	0.012	0.014	3:13:33 PM	10/20/2011 15:13	0.014
24180	0.01	0.01	0.011	0.012	3:14:33 PM	10/20/2011 15:14	0.012
24240	0.009	0.009	0.01	0.012	3:15:33 PM	10/20/2011 15:15	0.012
24300	0.009	0.009	0.009	0.01	3:16:33 PM	10/20/2011 15:16	0.01
24360	0.008	0.008	0.009	0.01	3:17:33 PM	10/20/2011 15:17	0.01
24420	0.008	0.009	0.009	0.01	3:18:33 PM	10/20/2011 15:18	0.011
24480	0.009	0.009	0.01	0.011	3:19:33 PM	10/20/2011 15:19	0.011
24540	0.011	0.011	0.011	0.013	3:20:33 PM	10/20/2011 15:20	0.014
24600	0.009	0.01	0.01	0.011	3:21:33 PM	10/20/2011 15:21	0.011
24660	0.011	0.011	0.012	0.016	3:22:33 PM	10/20/2011 15:22	0.017
24720	0.01	0.01	0.01	0.012	3:23:33 PM	10/20/2011 15:23	0.013
24780	0.012	0.012	0.013	0.016	3:24:33 PM	10/20/2011 15:24	0.017
24840	0.015	0.016	0.016	0.018	3:25:33 PM	10/20/2011 15:25	0.019
24900	0.016	0.016	0.016	0.018	3:26:33 PM	10/20/2011 15:26	0.018
24960	0.023	0.023	0.024	0.028	3:27:33 PM	10/20/2011 15:27	0.029
25020	0.015	0.015	0.016	0.018	3:28:33 PM	10/20/2011 15:28	0.019
25080	0.011	0.011	0.011	0.013	3:29:33 PM	10/20/2011 15:29	0.013

25140	0.019	0.019	0.02	0.022	3:30:33 PM	10/20/2011 15:30	0.022
25200	0.041	0.041	0.042	0.044	3:31:33 PM	10/20/2011 15:31	0.044
25260	0.012	0.012	0.013	0.015	3:32:33 PM	10/20/2011 15:32	0.016
25320	0.015	0.015	0.016	0.02	3:33:33 PM	10/20/2011 15:33	0.025
25380	0.038	0.039	0.039	0.041	3:34:33 PM	10/20/2011 15:34	0.042
25440	0.014	0.014	0.015	0.018	3:35:33 PM	10/20/2011 15:35	0.018
25500	0.009	0.01	0.01	0.012	3:36:33 PM	10/20/2011 15:36	0.012
25560	0.009	0.01	0.01	0.012	3:37:33 PM	10/20/2011 15:37	0.012
25620	0.009	0.01	0.011	0.013	3:38:33 PM	10/20/2011 15:38	0.013
25680	0.012	0.013	0.014	0.018	3:39:33 PM	10/20/2011 15:39	0.02
25740	0.016	0.017	0.02	0.032	3:40:33 PM	10/20/2011 15:40	0.033
25800	0.019	0.02	0.023	0.034	3:41:33 PM	10/20/2011 15:41	0.037
25860	0.015	0.015	0.017	0.023	3:42:33 PM	10/20/2011 15:42	0.025
25920	0.009	0.01	0.01	0.012	3:43:33 PM	10/20/2011 15:43	0.012
25980	0.009	0.01	0.011	0.013	3:44:33 PM	10/20/2011 15:44	0.014
26040	0.01	0.01	0.012	0.015	3:45:33 PM	10/20/2011 15:45	0.016
26100	0.01	0.011	0.011	0.014	3:46:33 PM	10/20/2011 15:46	0.014
26160	0.008	0.009	0.009	0.01	3:47:33 PM	10/20/2011 15:47	0.01
26220	0.008	0.008	0.009	0.01	3:48:33 PM	10/20/2011 15:48	0.011
26280	0.01	0.011	0.012	0.014	3:49:33 PM	10/20/2011 15:49	0.016
26340	0.008	0.009	0.009	0.012	3:50:33 PM	10/20/2011 15:50	0.012
26400	0.008	0.008	0.009	0.01	3:51:33 PM	10/20/2011 15:51	0.012
26460	0.008	0.009	0.009	0.011	3:52:33 PM	10/20/2011 15:52	0.012
26520	0.009	0.009	0.01	0.012	3:53:33 PM	10/20/2011 15:53	0.013
26580	0.008	0.009	0.009	0.011	3:54:33 PM	10/20/2011 15:54	0.012
26640	0.01	0.011	0.011	0.012	3:55:33 PM	10/20/2011 15:55	0.014
26700	0.011	0.011	0.012	0.015	3:56:33 PM	10/20/2011 15:56	0.016
26760	0.016	0.017	0.019	0.024	3:57:33 PM	10/20/2011 15:57	0.027
26820	0.01	0.011	0.012	0.014	3:58:33 PM	10/20/2011 15:58	0.016
26880	0.008	0.008	0.009	0.01	3:59:33 PM	10/20/2011 15:59	0.01
26940	0.01	0.011	0.011	0.014	4:00:33 PM	10/20/2011 16:00	0.014
27000	0.011	0.011	0.012	0.014	4:01:33 PM	10/20/2011 16:01	0.014
27060	0.009	0.01	0.01	0.011	4:02:33 PM	10/20/2011 16:02	0.011
27120	0.014	0.014	0.015	0.017	4:03:33 PM	10/20/2011 16:03	0.018
27180	0.01	0.011	0.011	0.014	4:04:33 PM	10/20/2011 16:04	0.015
27240	0.009	0.009	0.01	0.011	4:05:33 PM	10/20/2011 16:05	0.012
27300	0.009	0.009	0.01	0.011	4:06:33 PM	10/20/2011 16:06	0.012
27360	0.012	0.012	0.013	0.014	4:07:33 PM	10/20/2011 16:07	0.015
27420	0.012	0.012	0.013	0.018	4:08:33 PM	10/20/2011 16:08	0.02
27480	0.009	0.009	0.01	0.012	4:09:33 PM	10/20/2011 16:09	0.013
27540	0.009	0.009	0.01	0.012	4:10:33 PM	10/20/2011 16:10	0.013
27600	0.009	0.009	0.01	0.011	4:11:33 PM	10/20/2011 16:11	0.012
27660	0.009	0.009	0.01	0.012	4:12:33 PM	10/20/2011 16:12	0.013
27720	0.008	0.008	0.009	0.01	4:13:33 PM	10/20/2011 16:13	0.01
27780	0.01	0.01	0.011	0.014	4:14:33 PM	10/20/2011 16:14	0.015
27840	0.008	0.008	0.008	0.01	4:15:33 PM	10/20/2011 16:15	0.01
27900	0.008	0.008	0.009	0.011	4:16:33 PM	10/20/2011 16:16	0.011
27960	0.009	0.009	0.009	0.011	4:17:33 PM	10/20/2011 16:17	0.012
28020	0.01	0.011	0.012	0.013	4:18:33 PM	10/20/2011 16:18	0.015
28080	0.008	0.008	0.009	0.009	4:19:33 PM	10/20/2011 16:19	0.009
28140	0.008	0.008	0.008	0.009	4:20:33 PM	10/20/2011 16:20	0.009
28200	0.007	0.007	0.008	0.009	4:21:33 PM	10/20/2011 16:21	0.01
28260	0.008	0.009	0.009	0.011	4:22:33 PM	10/20/2011 16:22	0.011
28320	0.019	0.02	0.02	0.024	4:23:33 PM	10/20/2011 16:23	0.026
28380	0.009	0.01	0.01	0.012	4:24:33 PM	10/20/2011 16:24	0.013
28440	0.01	0.011	0.011	0.014	4:25:33 PM	10/20/2011 16:25	0.015
28500	0.014	0.015	0.016	0.02	4:26:33 PM	10/20/2011 16:26	0.022
28560	0.017	0.018	0.019	0.024	4:27:33 PM	10/20/2011 16:27	0.025
28620	0.015	0.016	0.018	0.025	4:28:33 PM	10/20/2011 16:28	0.025
28680	0.013	0.014	0.016	0.022	4:29:33 PM	10/20/2011 16:29	0.022
28740	0.009	0.01	0.011	0.013	4:30:33 PM	10/20/2011 16:30	0.014
28800	0.013	0.014	0.015	0.017	4:31:33 PM	10/20/2011 16:31	0.018
28860	0.074	0.075	0.077	0.085	4:32:33 PM	10/20/2011 16:32	0.088
28920	0.015	0.015	0.016	0.019	4:33:33 PM	10/20/2011 16:33	0.019
28980	0.015	0.015	0.017	0.022	4:34:33 PM	10/20/2011 16:34	0.023
29040	0.009	0.009	0.01	0.011	4:35:33 PM	10/20/2011 16:35	0.011
29100	0.007	0.007	0.008	0.009	4:36:33 PM	10/20/2011 16:36	0.009
29160	0.009	0.01	0.011	0.014	4:37:33 PM	10/20/2011 16:37	0.014
29220	0.008	0.009	0.009	0.011	4:38:33 PM	10/20/2011 16:38	0.011
29280	0.008	0.009	0.009	0.011	4:39:33 PM	10/20/2011 16:39	0.012
29340	0.01	0.01	0.011	0.013	4:40:33 PM	10/20/2011 16:40	0.014
29400	0.007	0.008	0.008	0.009	4:41:33 PM	10/20/2011 16:41	0.01
29460	0.007	0.008	0.008	0.009	4:42:33 PM	10/20/2011 16:42	0.01
29520	0.008	0.009	0.009	0.011	4:43:33 PM	10/20/2011 16:43	0.012
29580	0.008	0.008	0.009	0.01	4:44:33 PM	10/20/2011 16:44	0.011
29640	0.009	0.009	0.01	0.011	4:45:33 PM	10/20/2011 16:45	0.012
29700	0.009	0.009	0.01	0.012	4:46:33 PM	10/20/2011 16:46	0.012
29760	0.013	0.013	0.014	0.016	4:47:33 PM	10/20/2011 16:47	0.017
29820	0.007	0.007	0.008	0.009	4:48:33 PM	10/20/2011 16:48	0.01
29880	0.008	0.008	0.008	0.009	4:49:33 PM	10/20/2011 16:49	0.009
29940	0.007	0.008	0.008	0.011	4:50:33 PM	10/20/2011 16:50	0.012
30000	0.007	0.008	0.008	0.012	4:51:33 PM	10/20/2011 16:51	0.014
30060	0.025	0.026	0.03	0.046	4:52:33 PM	10/20/2011 16:52	0.054
30120	0.01	0.01	0.011	0.015	4:53:33 PM	10/20/2011 16:53	0.016
30180	0.008	0.009	0.009	0.011	4:54:33 PM	10/20/2011 16:54	0.012
30240	0.01	0.01	0.011	0.013	4:55:33 PM	10/20/2011 16:55	0.015
30300	0.008	0.009	0.009	0.011	4:56:33 PM	10/20/2011 16:56	0.012
30360	0.007	0.007	0.008	0.009	4:57:33 PM	10/20/2011 16:57	0.01
30420	0.009	0.009	0.01	0.012	4:58:33 PM	10/20/2011 16:58	0.012
30480	0.009	0.01	0.011	0.013	4:59:33 PM	10/20/2011 16:59	0.013
30540	0.008	0.008	0.009	0.009	5:00:33 PM	10/20/2011 17:00	0.009

30600	0.008	0.008	0.009	0.01	5:01:33 PM	10/20/2011 17:01	0.01
30660	0.009	0.01	0.01	0.013	5:02:33 PM	10/20/2011 17:02	0.014
30720	0.01	0.01	0.011	0.016	5:03:33 PM	10/20/2011 17:03	0.016
30780	0.009	0.009	0.01	0.013	5:04:33 PM	10/20/2011 17:04	0.013
30840	0.008	0.008	0.009	0.011	5:05:33 PM	10/20/2011 17:05	0.011
30900	0.008	0.008	0.009	0.011	5:06:33 PM	10/20/2011 17:06	0.011
30960	0.007	0.007	0.007	0.009	5:07:33 PM	10/20/2011 17:07	0.009
31020	0.01	0.01	0.011	0.014	5:08:33 PM	10/20/2011 17:08	0.016
31080	0.009	0.009	0.01	0.012	5:09:33 PM	10/20/2011 17:09	0.013
31140	0.009	0.01	0.011	0.012	5:10:33 PM	10/20/2011 17:10	0.013
31200	0.006	0.007	0.007	0.008	5:11:33 PM	10/20/2011 17:11	0.009
31260	0.012	0.013	0.014	0.019	5:12:33 PM	10/20/2011 17:12	0.022
31320	0.007	0.007	0.008	0.01	5:13:33 PM	10/20/2011 17:13	0.01
31380	0.007	0.007	0.008	0.009	5:14:33 PM	10/20/2011 17:14	0.009
31440	0.009	0.009	0.01	0.012	5:15:33 PM	10/20/2011 17:15	0.013
31500	0.008	0.009	0.009	0.011	5:16:33 PM	10/20/2011 17:16	0.011
31560	0.008	0.008	0.009	0.01	5:17:33 PM	10/20/2011 17:17	0.01
31620	0.007	0.007	0.008	0.009	5:18:33 PM	10/20/2011 17:18	0.009
31680	0.009	0.009	0.01	0.013	5:19:33 PM	10/20/2011 17:19	0.013
31740	0.01	0.011	0.012	0.016	5:20:33 PM	10/20/2011 17:20	0.017
31800	0.009	0.009	0.01	0.012	5:21:33 PM	10/20/2011 17:21	0.012
31860	0.01	0.011	0.012	0.015	5:22:33 PM	10/20/2011 17:22	0.016
31920	0.009	0.009	0.01	0.012	5:23:33 PM	10/20/2011 17:23	0.013
31980	0.009	0.009	0.01	0.012	5:24:33 PM	10/20/2011 17:24	0.012
32040	0.008	0.008	0.009	0.01	5:25:33 PM	10/20/2011 17:25	0.011
32100	0.007	0.007	0.008	0.008	5:26:33 PM	10/20/2011 17:26	0.009
32160	0.006	0.007	0.007	0.008	5:27:33 PM	10/20/2011 17:27	0.008
32220	0.007	0.007	0.008	0.01	5:28:33 PM	10/20/2011 17:28	0.01
32280	0.008	0.008	0.009	0.01	5:29:33 PM	10/20/2011 17:29	0.01
32340	0.008	0.009	0.01	0.012	5:30:33 PM	10/20/2011 17:30	0.012
32400	0.008	0.008	0.009	0.01	5:31:33 PM	10/20/2011 17:31	0.011
32460	0.007	0.008	0.008	0.01	5:32:33 PM	10/20/2011 17:32	0.01
32520	0.007	0.007	0.008	0.009	5:33:33 PM	10/20/2011 17:33	0.009
32580	0.009	0.009	0.01	0.015	5:34:33 PM	10/20/2011 17:34	0.016
32640	0.008	0.009	0.01	0.012	5:35:33 PM	10/20/2011 17:35	0.013
32700	0.007	0.007	0.008	0.009	5:36:33 PM	10/20/2011 17:36	0.009
32760	0.007	0.007	0.008	0.009	5:37:33 PM	10/20/2011 17:37	0.009
32820	0.007	0.007	0.007	0.008	5:38:33 PM	10/20/2011 17:38	0.009
32880	0.009	0.009	0.01	0.014	5:39:33 PM	10/20/2011 17:39	0.015
32940	0.008	0.008	0.009	0.012	5:40:33 PM	10/20/2011 17:40	0.012
33000	0.008	0.008	0.009	0.01	5:41:33 PM	10/20/2011 17:41	0.01

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_003
Test Start Time	7:07:52 AM
Test Start Date	10/21/2011
Test Length [D:H:M]	0:09:13
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.032
PM1 Minimum [mg/m3]	0.005
PM1 Maximum [mg/m3]	0.589
PM1 TWA [mg/m3]	0.03
PM2.5 Average [mg/m3]	0.034
PM2.5 Minimum [mg/m3]	0.005
PM2.5 Maximum [mg/m3]	0.598
PM2.5 TWA [mg/m3]	0.033
PM4 Average [mg/m3]	0.039
PM4 Minimum [mg/m3]	0.005
PM4 Maximum [mg/m3]	0.607
PM4 TWA [mg/m3]	0.037
PM10 Average [mg/m3]	0.054
PM10 Minimum [mg/m3]	0.005
PM10 Maximum [mg/m3]	0.62
PM10 TWA [mg/m3]	0.051
TOTAL Average [mg/m3]	0.058
TOTAL Minimum [mg/m3]	0.005
TOTAL Maximum [mg/m3]	0.623
TOTAL TWA [mg/m3]	0.055
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	Flow Error
Number of Samples	553



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:07:52 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.01	0.011	0.012	0.015	7:08:52 AM	10/21/2011 7:08	0.021		
120	0.011	0.011	0.012	0.016	7:09:52 AM	10/21/2011 7:09	0.025		
180	0.015	0.015	0.017	0.026	7:10:52 AM	10/21/2011 7:10	0.036		
240	0.019	0.02	0.023	0.037	7:11:52 AM	10/21/2011 7:11	0.054		
300	0.016	0.017	0.018	0.028	7:12:52 AM	10/21/2011 7:12	0.038		
360	0.02	0.021	0.023	0.036	7:13:52 AM	10/21/2011 7:13	0.048		
420	0.009	0.01	0.011	0.014	7:14:52 AM	10/21/2011 7:14	0.019		
480	0.068	0.069	0.074	0.121	7:15:52 AM	10/21/2011 7:15	0.159		
540	0.042	0.044	0.05	0.1	7:16:52 AM	10/21/2011 7:16	0.145		
600	0.053	0.054	0.059	0.093	7:17:52 AM	10/21/2011 7:17	0.125		
660	0.007	0.008	0.009	0.01	7:18:52 AM	10/21/2011 7:18	0.01		
720	0.012	0.012	0.013	0.015	7:19:52 AM	10/21/2011 7:19	0.015		
780	0.006	0.006	0.007	0.007	7:20:52 AM	10/21/2011 7:20	0.008		
840	0.011	0.012	0.012	0.013	7:21:52 AM	10/21/2011 7:21	0.013		
900	0.014	0.014	0.015	0.018	7:22:52 AM	10/21/2011 7:22	0.02		
960	0.009	0.01	0.011	0.014	7:23:52 AM	10/21/2011 7:23	0.014		
1020	0.01	0.011	0.012	0.015	7:24:52 AM	10/21/2011 7:24	0.016		
1080	0.063	0.065	0.07	0.086	7:25:52 AM	10/21/2011 7:25	0.091		
1140	0.013	0.014	0.016	0.023	7:26:52 AM	10/21/2011 7:26	0.023		
1200	0.011	0.012	0.013	0.018	7:27:52 AM	10/21/2011 7:27	0.02		
1260	0.007	0.007	0.008	0.01	7:28:52 AM	10/21/2011 7:28	0.01		
1320	0.005	0.006	0.006	0.007	7:29:52 AM	10/21/2011 7:29	0.007		
1380	0.006	0.007	0.007	0.01	7:30:52 AM	10/21/2011 7:30	0.01		
1440	0.012	0.013	0.015	0.02	7:31:52 AM	10/21/2011 7:31	0.021		
1500	0.012	0.013	0.014	0.018	7:32:52 AM	10/21/2011 7:32	0.018		
1560	0.01	0.01	0.011	0.014	7:33:52 AM	10/21/2011 7:33	0.014		
1620	0.012	0.013	0.015	0.019	7:34:52 AM	10/21/2011 7:34	0.02		
1680	0.009	0.01	0.011	0.015	7:35:52 AM	10/21/2011 7:35	0.016		
1740	0.029	0.03	0.033	0.051	7:36:52 AM	10/21/2011 7:36	0.063		
1800	0.01	0.01	0.012	0.016	7:37:52 AM	10/21/2011 7:37	0.017		
1860	0.01	0.011	0.012	0.017	7:38:52 AM	10/21/2011 7:38	0.019		
1920	0.012	0.013	0.015	0.022	7:39:52 AM	10/21/2011 7:39	0.027		
1980	0.018	0.02	0.023	0.035	7:40:52 AM	10/21/2011 7:40	0.037		
2040	0.008	0.008	0.009	0.012	7:41:52 AM	10/21/2011 7:41	0.013		
2100	0.006	0.006	0.007	0.008	7:42:52 AM	10/21/2011 7:42	0.009		
2160	0.007	0.008	0.008	0.011	7:43:52 AM	10/21/2011 7:43	0.011		
2220	0.019	0.021	0.024	0.034	7:44:52 AM	10/21/2011 7:44	0.037		
2280	0.011	0.012	0.014	0.019	7:45:52 AM	10/21/2011 7:45	0.02		
2340	0.011	0.012	0.014	0.019	7:46:52 AM	10/21/2011 7:46	0.02		
2400	0.006	0.006	0.007	0.009	7:47:52 AM	10/21/2011 7:47	0.009		
2460	0.007	0.007	0.008	0.01	7:48:52 AM	10/21/2011 7:48	0.011		
2520	0.033	0.036	0.045	0.069	7:49:52 AM	10/21/2011 7:49	0.076		
2580	0.031	0.035	0.043	0.07	7:50:52 AM	10/21/2011 7:50	0.078		
2640	0.012	0.013	0.015	0.02	7:51:52 AM	10/21/2011 7:51	0.022		
2700	0.009	0.01	0.011	0.015	7:52:52 AM	10/21/2011 7:52	0.015		
2760	0.018	0.019	0.023	0.037	7:53:52 AM	10/21/2011 7:53	0.042		
2820	0.01	0.011	0.012	0.017	7:54:52 AM	10/21/2011 7:54	0.018		
2880	0.024	0.026	0.03	0.047	7:55:52 AM	10/21/2011 7:55	0.051		
2940	0.03	0.033	0.039	0.061	7:56:52 AM	10/21/2011 7:56	0.067		
3000	0.016	0.017	0.02	0.031	7:57:52 AM	10/21/2011 7:57	0.032		
3060	0.014	0.015	0.017	0.026	7:58:52 AM	10/21/2011 7:58	0.029		
3120	0.027	0.029	0.035	0.056	7:59:52 AM	10/21/2011 7:59	0.062		
3180	0.014	0.015	0.017	0.027	8:00:52 AM	10/21/2011 8:00	0.032		
3240	0.016	0.017	0.02	0.028	8:01:52 AM	10/21/2011 8:01	0.029		

3300	0.012	0.013	0.016	0.021	8:02:52 AM	10/21/2011 8:02	0.023
3360	0.008	0.008	0.009	0.012	8:03:52 AM	10/21/2011 8:03	0.014
3420	0.015	0.016	0.019	0.026	8:04:52 AM	10/21/2011 8:04	0.029
3480	0.011	0.012	0.014	0.019	8:05:52 AM	10/21/2011 8:05	0.021
3540	0.008	0.008	0.009	0.012	8:06:52 AM	10/21/2011 8:06	0.012
3600	0.013	0.014	0.017	0.023	8:07:52 AM	10/21/2011 8:07	0.026
3660	0.022	0.024	0.028	0.043	8:08:52 AM	10/21/2011 8:08	0.047
3720	0.017	0.018	0.021	0.032	8:09:52 AM	10/21/2011 8:09	0.035
3780	0.018	0.02	0.024	0.036	8:10:52 AM	10/21/2011 8:10	0.038
3840	0.008	0.009	0.01	0.015	8:11:52 AM	10/21/2011 8:11	0.016
3900	0.016	0.018	0.02	0.03	8:12:52 AM	10/21/2011 8:12	0.033
3960	0.013	0.014	0.016	0.021	8:13:52 AM	10/21/2011 8:13	0.022
4020	0.016	0.018	0.02	0.026	8:14:52 AM	10/21/2011 8:14	0.027
4080	0.017	0.018	0.02	0.026	8:15:52 AM	10/21/2011 8:15	0.027
4140	0.009	0.01	0.011	0.014	8:16:52 AM	10/21/2011 8:16	0.015
4200	0.009	0.01	0.011	0.014	8:17:52 AM	10/21/2011 8:17	0.014
4260	0.013	0.014	0.016	0.02	8:18:52 AM	10/21/2011 8:18	0.021
4320	0.01	0.01	0.011	0.014	8:19:52 AM	10/21/2011 8:19	0.015
4380	0.008	0.009	0.01	0.013	8:20:52 AM	10/21/2011 8:20	0.014
4440	0.012	0.014	0.016	0.021	8:21:52 AM	10/21/2011 8:21	0.023
4500	0.018	0.02	0.023	0.036	8:22:52 AM	10/21/2011 8:22	0.039
4560	0.013	0.014	0.015	0.021	8:23:52 AM	10/21/2011 8:23	0.022
4620	0.011	0.012	0.013	0.017	8:24:52 AM	10/21/2011 8:24	0.02
4680	0.014	0.015	0.017	0.023	8:25:52 AM	10/21/2011 8:25	0.025
4740	0.022	0.024	0.028	0.043	8:26:52 AM	10/21/2011 8:26	0.047
4800	0.019	0.021	0.024	0.034	8:27:52 AM	10/21/2011 8:27	0.036
4860	0.014	0.015	0.018	0.024	8:28:52 AM	10/21/2011 8:28	0.026
4920	0.012	0.013	0.016	0.023	8:29:52 AM	10/21/2011 8:29	0.024
4980	0.015	0.017	0.02	0.031	8:30:52 AM	10/21/2011 8:30	0.032
5040	0.022	0.025	0.029	0.042	8:31:52 AM	10/21/2011 8:31	0.047
5100	0.013	0.014	0.015	0.02	8:32:52 AM	10/21/2011 8:32	0.021
5160	0.008	0.009	0.01	0.012	8:33:52 AM	10/21/2011 8:33	0.013
5220	0.008	0.009	0.009	0.01	8:34:52 AM	10/21/2011 8:34	0.01
5280	0.008	0.009	0.009	0.01	8:35:52 AM	10/21/2011 8:35	0.01
5340	0.011	0.013	0.014	0.015	8:36:52 AM	10/21/2011 8:36	0.015
5400	0.007	0.008	0.008	0.01	8:37:52 AM	10/21/2011 8:37	0.01
5460	0.006	0.006	0.007	0.007	8:38:52 AM	10/21/2011 8:38	0.008
5520	0.039	0.043	0.051	0.078	8:39:52 AM	10/21/2011 8:39	0.088
5580	0.016	0.018	0.021	0.033	8:40:52 AM	10/21/2011 8:40	0.036
5640	0.022	0.025	0.03	0.047	8:41:52 AM	10/21/2011 8:41	0.049
5700	0.014	0.015	0.018	0.027	8:42:52 AM	10/21/2011 8:42	0.03
5760	0.012	0.013	0.015	0.022	8:43:52 AM	10/21/2011 8:43	0.024
5820	0.014	0.015	0.018	0.029	8:44:52 AM	10/21/2011 8:44	0.03
5880	0.006	0.006	0.007	0.009	8:45:52 AM	10/21/2011 8:45	0.009
5940	0.008	0.009	0.01	0.012	8:46:52 AM	10/21/2011 8:46	0.013
6000	0.018	0.02	0.023	0.032	8:47:52 AM	10/21/2011 8:47	0.035
6060	0.015	0.017	0.02	0.028	8:48:52 AM	10/21/2011 8:48	0.029
6120	0.016	0.018	0.02	0.028	8:49:52 AM	10/21/2011 8:49	0.03
6180	0.009	0.009	0.01	0.014	8:50:52 AM	10/21/2011 8:50	0.014
6240	0.007	0.008	0.009	0.012	8:51:52 AM	10/21/2011 8:51	0.013
6300	0.008	0.009	0.01	0.014	8:52:52 AM	10/21/2011 8:52	0.015
6360	0.011	0.012	0.014	0.02	8:53:52 AM	10/21/2011 8:53	0.02
6420	0.008	0.008	0.009	0.012	8:54:52 AM	10/21/2011 8:54	0.013
6480	0.006	0.007	0.007	0.008	8:55:52 AM	10/21/2011 8:55	0.009
6540	0.015	0.017	0.019	0.029	8:56:52 AM	10/21/2011 8:56	0.031
6600	0.021	0.023	0.026	0.039	8:57:52 AM	10/21/2011 8:57	0.044
6660	0.008	0.009	0.01	0.013	8:58:52 AM	10/21/2011 8:58	0.014
6720	0.011	0.011	0.013	0.017	8:59:52 AM	10/21/2011 8:59	0.017
6780	0.008	0.009	0.009	0.011	9:00:52 AM	10/21/2011 9:00	0.012
6840	0.01	0.011	0.012	0.015	9:01:52 AM	10/21/2011 9:01	0.017
6900	0.007	0.008	0.008	0.01	9:02:52 AM	10/21/2011 9:02	0.011
6960	0.024	0.026	0.03	0.044	9:03:52 AM	10/21/2011 9:03	0.047
7020	0.026	0.028	0.033	0.05	9:04:52 AM	10/21/2011 9:04	0.056
7080	0.022	0.024	0.028	0.043	9:05:52 AM	10/21/2011 9:05	0.046
7140	0.015	0.016	0.018	0.026	9:06:52 AM	10/21/2011 9:06	0.029
7200	0.023	0.025	0.03	0.044	9:07:52 AM	10/21/2011 9:07	0.049
7260	0.01	0.011	0.012	0.018	9:08:52 AM	10/21/2011 9:08	0.019
7320	0.012	0.012	0.014	0.021	9:09:52 AM	10/21/2011 9:09	0.023
7380	0.008	0.008	0.009	0.013	9:10:52 AM	10/21/2011 9:10	0.013
7440	0.011	0.012	0.014	0.02	9:11:52 AM	10/21/2011 9:11	0.021
7500	0.022	0.024	0.029	0.043	9:12:52 AM	10/21/2011 9:12	0.046
7560	0.032	0.036	0.043	0.068	9:13:52 AM	10/21/2011 9:13	0.079
7620	0.027	0.03	0.036	0.053	9:14:52 AM	10/21/2011 9:14	0.058
7680	0.02	0.022	0.026	0.037	9:15:52 AM	10/21/2011 9:15	0.04
7740	0.017	0.018	0.021	0.031	9:16:52 AM	10/21/2011 9:16	0.035
7800	0.015	0.016	0.018	0.026	9:17:52 AM	10/21/2011 9:17	0.028
7860	0.013	0.014	0.016	0.021	9:18:52 AM	10/21/2011 9:18	0.021
7920	0.013	0.014	0.016	0.021	9:19:52 AM	10/21/2011 9:19	0.022
7980	0.021	0.023	0.026	0.036	9:20:52 AM	10/21/2011 9:20	0.038
8040	0.014	0.015	0.017	0.021	9:21:52 AM	10/21/2011 9:21	0.022
8100	0.034	0.037	0.044	0.071	9:22:52 AM	10/21/2011 9:22	0.082
8160	0.043	0.047	0.057	0.102	9:23:52 AM	10/21/2011 9:23	0.12
8220	0.025	0.027	0.032	0.058	9:24:52 AM	10/21/2011 9:24	0.064
8280	0.014	0.016	0.018	0.027	9:25:52 AM	10/21/2011 9:25	0.028
8340	0.016	0.017	0.021	0.03	9:26:52 AM	10/21/2011 9:26	0.031
8400	0.041	0.046	0.057	0.089	9:27:52 AM	10/21/2011 9:27	0.099
8460	0.027	0.031	0.037	0.055	9:28:52 AM	10/21/2011 9:28	0.061
8520	0.025	0.027	0.033	0.051	9:29:52 AM	10/21/2011 9:29	0.056
8580	0.036	0.04	0.047	0.072	9:30:52 AM	10/21/2011 9:30	0.08
8640	0.062	0.068	0.084	0.142	9:31:52 AM	10/21/2011 9:31	0.161
8700	0.026	0.028	0.034	0.056	9:32:52 AM	10/21/2011 9:32	0.061

8760	0.018	0.02	0.024	0.036	9:33:52 AM	10/21/2011 9:33	0.038
8820	0.028	0.03	0.036	0.058	9:34:52 AM	10/21/2011 9:34	0.062
8880	0.02	0.021	0.025	0.039	9:35:52 AM	10/21/2011 9:35	0.045
8940	0.03	0.032	0.039	0.068	9:36:52 AM	10/21/2011 9:36	0.076
9000	0.016	0.017	0.02	0.029	9:37:52 AM	10/21/2011 9:37	0.031
9060	0.024	0.026	0.031	0.05	9:38:52 AM	10/21/2011 9:38	0.057
9120	0.034	0.037	0.045	0.076	9:39:52 AM	10/21/2011 9:39	0.088
9180	0.025	0.027	0.032	0.053	9:40:52 AM	10/21/2011 9:40	0.057
9240	0.01	0.01	0.011	0.016	9:41:52 AM	10/21/2011 9:41	0.018
9300	0.01	0.01	0.012	0.015	9:42:52 AM	10/21/2011 9:42	0.017
9360	0.009	0.009	0.01	0.014	9:43:52 AM	10/21/2011 9:43	0.015
9420	0.018	0.019	0.022	0.03	9:44:52 AM	10/21/2011 9:44	0.033
9480	0.019	0.021	0.024	0.035	9:45:52 AM	10/21/2011 9:45	0.04
9540	0.028	0.03	0.037	0.056	9:46:52 AM	10/21/2011 9:46	0.061
9600	0.021	0.023	0.026	0.038	9:47:52 AM	10/21/2011 9:47	0.041
9660	0.017	0.018	0.021	0.028	9:48:52 AM	10/21/2011 9:48	0.03
9720	0.031	0.033	0.038	0.056	9:49:52 AM	10/21/2011 9:49	0.063
9780	0.027	0.03	0.035	0.048	9:50:52 AM	10/21/2011 9:50	0.052
9840	0.024	0.026	0.03	0.041	9:51:52 AM	10/21/2011 9:51	0.045
9900	0.026	0.027	0.032	0.058	9:52:52 AM	10/21/2011 9:52	0.066
9960	0.037	0.04	0.049	0.09	9:53:52 AM	10/21/2011 9:53	0.103
10020	0.027	0.029	0.035	0.06	9:54:52 AM	10/21/2011 9:54	0.07
10080	0.023	0.025	0.03	0.049	9:55:52 AM	10/21/2011 9:55	0.055
10140	0.016	0.017	0.02	0.029	9:56:52 AM	10/21/2011 9:56	0.034
10200	0.011	0.012	0.014	0.019	9:57:52 AM	10/21/2011 9:57	0.022
10260	0.009	0.01	0.011	0.015	9:58:52 AM	10/21/2011 9:58	0.016
10320	0.015	0.016	0.018	0.025	9:59:52 AM	10/21/2011 9:59	0.026
10380	0.012	0.013	0.014	0.018	10:00:52 AM	10/21/2011 10:00	0.019
10440	0.016	0.018	0.02	0.027	10:01:52 AM	10/21/2011 10:01	0.029
10500	0.027	0.03	0.034	0.047	10:02:52 AM	10/21/2011 10:02	0.051
10560	0.024	0.026	0.03	0.044	10:03:52 AM	10/21/2011 10:03	0.047
10620	0.026	0.028	0.032	0.044	10:04:52 AM	10/21/2011 10:04	0.047
10680	0.009	0.01	0.011	0.015	10:05:52 AM	10/21/2011 10:05	0.016
10740	0.013	0.014	0.015	0.021	10:06:52 AM	10/21/2011 10:06	0.022
10800	0.014	0.016	0.018	0.026	10:07:52 AM	10/21/2011 10:07	0.029
10860	0.009	0.01	0.011	0.016	10:08:52 AM	10/21/2011 10:08	0.017
10920	0.011	0.012	0.014	0.019	10:09:52 AM	10/21/2011 10:09	0.02
10980	0.014	0.015	0.017	0.022	10:10:52 AM	10/21/2011 10:10	0.024
11040	0.027	0.029	0.033	0.046	10:11:52 AM	10/21/2011 10:11	0.05
11100	0.02	0.022	0.024	0.031	10:12:52 AM	10/21/2011 10:12	0.033
11160	0.025	0.028	0.031	0.042	10:13:52 AM	10/21/2011 10:13	0.044
11220	0.033	0.036	0.041	0.057	10:14:52 AM	10/21/2011 10:14	0.06
11280	0.021	0.023	0.026	0.039	10:15:52 AM	10/21/2011 10:15	0.042
11340	0.022	0.024	0.027	0.039	10:16:52 AM	10/21/2011 10:16	0.042
11400	0.021	0.023	0.027	0.036	10:17:52 AM	10/21/2011 10:17	0.041
11460	0.018	0.019	0.022	0.029	10:18:52 AM	10/21/2011 10:18	0.031
11520	0.025	0.028	0.032	0.043	10:19:52 AM	10/21/2011 10:19	0.047
11580	0.189	0.192	0.197	0.212	10:20:52 AM	10/21/2011 10:20	0.22
11640	0.033	0.036	0.041	0.059	10:21:52 AM	10/21/2011 10:21	0.066
11700	0.03	0.033	0.038	0.059	10:22:52 AM	10/21/2011 10:22	0.068
11760	0.029	0.031	0.037	0.057	10:23:52 AM	10/21/2011 10:23	0.063
11820	0.021	0.023	0.026	0.038	10:24:52 AM	10/21/2011 10:24	0.04
11880	0.071	0.082	0.107	0.16	10:25:52 AM	10/21/2011 10:25	0.169
11940	0.21	0.229	0.271	0.368	10:26:52 AM	10/21/2011 10:26	0.398
12000	0.046	0.052	0.063	0.098	10:27:52 AM	10/21/2011 10:27	0.108
12060	0.027	0.03	0.034	0.05	10:28:52 AM	10/21/2011 10:28	0.055
12120	0.025	0.027	0.032	0.051	10:29:52 AM	10/21/2011 10:29	0.061
12180	0.023	0.025	0.029	0.049	10:30:52 AM	10/21/2011 10:30	0.055
12240	0.029	0.031	0.036	0.055	10:31:52 AM	10/21/2011 10:31	0.061
12300	0.034	0.037	0.043	0.065	10:32:52 AM	10/21/2011 10:32	0.073
12360	0.035	0.039	0.045	0.071	10:33:52 AM	10/21/2011 10:33	0.08
12420	0.03	0.033	0.039	0.061	10:34:52 AM	10/21/2011 10:34	0.068
12480	0.023	0.025	0.029	0.046	10:35:52 AM	10/21/2011 10:35	0.054
12540	0.035	0.037	0.044	0.068	10:36:52 AM	10/21/2011 10:36	0.081
12600	0.033	0.035	0.041	0.062	10:37:52 AM	10/21/2011 10:37	0.07
12660	0.023	0.025	0.029	0.044	10:38:52 AM	10/21/2011 10:38	0.048
12720	0.051	0.056	0.068	0.109	10:39:52 AM	10/21/2011 10:39	0.12
12780	0.078	0.087	0.11	0.178	10:40:52 AM	10/21/2011 10:40	0.193
12840	0.04	0.044	0.053	0.084	10:41:52 AM	10/21/2011 10:41	0.094
12900	0.042	0.045	0.051	0.074	10:42:52 AM	10/21/2011 10:42	0.085
12960	0.02	0.022	0.025	0.041	10:43:52 AM	10/21/2011 10:43	0.044
13020	0.042	0.045	0.052	0.072	10:44:52 AM	10/21/2011 10:44	0.08
13080	0.035	0.038	0.044	0.064	10:45:52 AM	10/21/2011 10:45	0.068
13140	0.025	0.027	0.031	0.045	10:46:52 AM	10/21/2011 10:46	0.051
13200	0.021	0.023	0.026	0.034	10:47:52 AM	10/21/2011 10:47	0.038
13260	0.023	0.025	0.029	0.042	10:48:52 AM	10/21/2011 10:48	0.045
13320	0.025	0.027	0.031	0.044	10:49:52 AM	10/21/2011 10:49	0.049
13380	0.033	0.035	0.041	0.067	10:50:52 AM	10/21/2011 10:50	0.074
13440	0.04	0.044	0.052	0.084	10:51:52 AM	10/21/2011 10:51	0.097
13500	0.042	0.046	0.054	0.08	10:52:52 AM	10/21/2011 10:52	0.09
13560	0.034	0.036	0.042	0.062	10:53:52 AM	10/21/2011 10:53	0.068
13620	0.025	0.027	0.031	0.045	10:54:52 AM	10/21/2011 10:54	0.053
13680	0.026	0.028	0.032	0.048	10:55:52 AM	10/21/2011 10:55	0.054
13740	0.025	0.027	0.03	0.042	10:56:52 AM	10/21/2011 10:56	0.046
13800	0.023	0.025	0.029	0.041	10:57:52 AM	10/21/2011 10:57	0.043
13860	0.024	0.026	0.03	0.043	10:58:52 AM	10/21/2011 10:58	0.046
13920	0.025	0.027	0.03	0.045	10:59:52 AM	10/21/2011 10:59	0.049
13980	0.108	0.111	0.118	0.155	11:00:52 AM	10/21/2011 11:00	0.182
14040	0.038	0.041	0.045	0.057	11:01:52 AM	10/21/2011 11:01	0.061
14100	0.028	0.03	0.035	0.05	11:02:52 AM	10/21/2011 11:02	0.052
14160	0.026	0.028	0.032	0.044	11:03:52 AM	10/21/2011 11:03	0.048

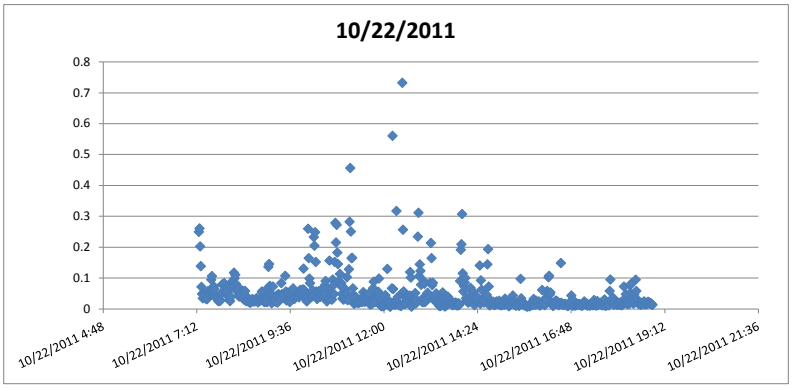
14220	0.021	0.023	0.026	0.035	11:04:52 AM	10/21/2011 11:04	0.038
14280	0.026	0.029	0.033	0.044	11:05:52 AM	10/21/2011 11:05	0.048
14340	0.026	0.028	0.031	0.041	11:06:52 AM	10/21/2011 11:06	0.044
14400	0.023	0.025	0.028	0.037	11:07:52 AM	10/21/2011 11:07	0.039
14460	0.028	0.03	0.034	0.044	11:08:52 AM	10/21/2011 11:08	0.046
14520	0.013	0.014	0.015	0.018	11:09:52 AM	10/21/2011 11:09	0.019
14580	0.02	0.022	0.024	0.031	11:10:52 AM	10/21/2011 11:10	0.033
14640	0.022	0.024	0.026	0.036	11:11:52 AM	10/21/2011 11:11	0.039
14700	0.019	0.02	0.023	0.03	11:12:52 AM	10/21/2011 11:12	0.033
14760	0.034	0.036	0.041	0.063	11:13:52 AM	10/21/2011 11:13	0.067
14820	0.022	0.023	0.026	0.037	11:14:52 AM	10/21/2011 11:14	0.041
14880	0.032	0.034	0.039	0.058	11:15:52 AM	10/21/2011 11:15	0.067
14940	0.017	0.018	0.02	0.026	11:16:52 AM	10/21/2011 11:16	0.029
15000	0.035	0.037	0.041	0.059	11:17:52 AM	10/21/2011 11:17	0.061
15060	0.022	0.024	0.026	0.032	11:18:52 AM	10/21/2011 11:18	0.033
15120	0.037	0.039	0.044	0.065	11:19:52 AM	10/21/2011 11:19	0.072
15180	0.027	0.029	0.033	0.048	11:20:52 AM	10/21/2011 11:20	0.053
15240	0.013	0.014	0.015	0.019	11:21:52 AM	10/21/2011 11:21	0.022
15300	0.018	0.019	0.021	0.028	11:22:52 AM	10/21/2011 11:22	0.029
15360	0.12	0.137	0.174	0.248	11:23:52 AM	10/21/2011 11:23	0.258
15420	0.063	0.074	0.098	0.143	11:24:52 AM	10/21/2011 11:24	0.149
15480	0.021	0.022	0.027	0.045	11:25:52 AM	10/21/2011 11:25	0.05
15540	0.024	0.026	0.031	0.045	11:26:52 AM	10/21/2011 11:26	0.048
15600	0.027	0.028	0.033	0.049	11:27:52 AM	10/21/2011 11:27	0.057
15660	0.017	0.019	0.021	0.029	11:28:52 AM	10/21/2011 11:28	0.032
15720	0.023	0.025	0.027	0.035	11:29:52 AM	10/21/2011 11:29	0.037
15780	0.025	0.027	0.029	0.038	11:30:52 AM	10/21/2011 11:30	0.04
15840	0.022	0.023	0.026	0.032	11:31:52 AM	10/21/2011 11:31	0.035
15900	0.023	0.025	0.027	0.035	11:32:52 AM	10/21/2011 11:32	0.041
15960	0.019	0.02	0.022	0.029	11:33:52 AM	10/21/2011 11:33	0.03
16020	0.016	0.017	0.018	0.022	11:34:52 AM	10/21/2011 11:34	0.022
16080	0.016	0.017	0.019	0.023	11:35:52 AM	10/21/2011 11:35	0.024
16140	0.155	0.184	0.238	0.311	11:36:52 AM	10/21/2011 11:36	0.317
16200	0.035	0.04	0.047	0.057	11:37:52 AM	10/21/2011 11:37	0.06
16260	0.021	0.023	0.025	0.033	11:38:52 AM	10/21/2011 11:38	0.034
16320	0.029	0.031	0.037	0.049	11:39:52 AM	10/21/2011 11:39	0.051
16380	0.018	0.019	0.021	0.027	11:40:52 AM	10/21/2011 11:40	0.028
16440	0.037	0.04	0.046	0.068	11:41:52 AM	10/21/2011 11:41	0.071
16500	0.105	0.113	0.14	0.239	11:42:52 AM	10/21/2011 11:42	0.278
16560	0.119	0.127	0.154	0.258	11:43:52 AM	10/21/2011 11:43	0.296
16620	0.049	0.053	0.064	0.099	11:44:52 AM	10/21/2011 11:44	0.113
16680	0.055	0.059	0.07	0.113	11:45:52 AM	10/21/2011 11:45	0.122
16740	0.233	0.268	0.335	0.447	11:46:52 AM	10/21/2011 11:46	0.459
16800	0.067	0.077	0.093	0.123	11:47:52 AM	10/21/2011 11:47	0.127
16860	0.049	0.055	0.065	0.084	11:48:52 AM	10/21/2011 11:48	0.086
16920	0.035	0.037	0.042	0.059	11:49:52 AM	10/21/2011 11:49	0.062
16980	0.041	0.044	0.05	0.069	11:50:52 AM	10/21/2011 11:50	0.073
17040	0.036	0.039	0.044	0.062	11:51:52 AM	10/21/2011 11:51	0.066
17100	0.039	0.041	0.046	0.063	11:52:52 AM	10/21/2011 11:52	0.07
17160	0.029	0.03	0.033	0.043	11:53:52 AM	10/21/2011 11:53	0.047
17220	0.031	0.033	0.037	0.052	11:54:52 AM	10/21/2011 11:54	0.058
17280	0.039	0.042	0.047	0.067	11:55:52 AM	10/21/2011 11:55	0.073
17340	0.067	0.071	0.081	0.125	11:56:52 AM	10/21/2011 11:56	0.14
17400	0.045	0.048	0.055	0.083	11:57:52 AM	10/21/2011 11:57	0.092
17460	0.035	0.037	0.041	0.058	11:58:52 AM	10/21/2011 11:58	0.062
17520	0.045	0.048	0.053	0.07	11:59:52 AM	10/21/2011 11:59	0.076
17580	0.028	0.03	0.032	0.041	12:00:52 PM	10/21/2011 12:00	0.044
17640	0.054	0.057	0.065	0.094	12:01:52 PM	10/21/2011 12:01	0.103
17700	0.041	0.043	0.049	0.069	12:02:52 PM	10/21/2011 12:02	0.074
17760	0.04	0.042	0.047	0.062	12:03:52 PM	10/21/2011 12:03	0.07
17820	0.023	0.025	0.027	0.035	12:04:52 PM	10/21/2011 12:04	0.041
17880	0.028	0.03	0.032	0.039	12:05:52 PM	10/21/2011 12:05	0.04
17940	0.045	0.048	0.054	0.069	12:06:52 PM	10/21/2011 12:06	0.073
18000	0.047	0.05	0.054	0.065	12:07:52 PM	10/21/2011 12:07	0.07
18060	0.035	0.037	0.04	0.051	12:08:52 PM	10/21/2011 12:08	0.053
18120	0.031	0.034	0.037	0.05	12:09:52 PM	10/21/2011 12:09	0.052
18180	0.052	0.057	0.067	0.082	12:10:52 PM	10/21/2011 12:10	0.084
18240	0.03	0.033	0.037	0.044	12:11:52 PM	10/21/2011 12:11	0.045
18300	0.042	0.046	0.051	0.063	12:12:52 PM	10/21/2011 12:12	0.066
18360	0.042	0.045	0.051	0.071	12:13:52 PM	10/21/2011 12:13	0.076
18420	0.038	0.04	0.045	0.059	12:14:52 PM	10/21/2011 12:14	0.06
18480	0.027	0.029	0.032	0.038	12:15:52 PM	10/21/2011 12:15	0.04
18540	0.04	0.042	0.047	0.061	12:16:52 PM	10/21/2011 12:16	0.064
18600	0.036	0.039	0.044	0.06	12:17:52 PM	10/21/2011 12:17	0.064
18660	0.035	0.037	0.042	0.053	12:18:52 PM	10/21/2011 12:18	0.056
18720	0.047	0.049	0.053	0.064	12:19:52 PM	10/21/2011 12:19	0.069
18780	0.06	0.064	0.072	0.096	12:20:52 PM	10/21/2011 12:20	0.107
18840	0.037	0.039	0.044	0.059	12:21:52 PM	10/21/2011 12:21	0.063
18900	0.039	0.042	0.049	0.068	12:22:52 PM	10/21/2011 12:22	0.071
18960	0.187	0.215	0.267	0.333	12:23:52 PM	10/21/2011 12:23	0.339
19020	0.054	0.059	0.069	0.099	12:24:52 PM	10/21/2011 12:24	0.107
19080	0.03	0.032	0.036	0.044	12:25:52 PM	10/21/2011 12:25	0.046
19140	0.034	0.035	0.039	0.047	12:26:52 PM	10/21/2011 12:26	0.048
19200	0.036	0.037	0.04	0.048	12:27:52 PM	10/21/2011 12:27	0.05
19260	0.062	0.066	0.073	0.089	12:28:52 PM	10/21/2011 12:28	0.093
19320	0.045	0.048	0.054	0.067	12:29:52 PM	10/21/2011 12:29	0.067
19380	0.023	0.025	0.028	0.035	12:30:52 PM	10/21/2011 12:30	0.036
19440	0.066	0.072	0.083	0.111	12:31:52 PM	10/21/2011 12:31	0.117
19500	0.058	0.062	0.07	0.087	12:32:52 PM	10/21/2011 12:32	0.09
19560	0.062	0.067	0.075	0.089	12:33:52 PM	10/21/2011 12:33	0.091
19620	0.03	0.033	0.036	0.042	12:34:52 PM	10/21/2011 12:34	0.044

19680	0.016	0.017	0.019	0.021	12:35:52 PM	10/21/2011 12:35	0.021
19740	0.009	0.009	0.01	0.01	12:36:52 PM	10/21/2011 12:36	0.01
19800	0.014	0.015	0.016	0.019	12:37:52 PM	10/21/2011 12:37	0.019
19860	0.016	0.017	0.018	0.022	12:38:52 PM	10/21/2011 12:38	0.023
19920	0.019	0.021	0.022	0.026	12:39:52 PM	10/21/2011 12:39	0.029
19980	0.03	0.032	0.035	0.042	12:40:52 PM	10/21/2011 12:40	0.045
20040	0.04	0.042	0.045	0.05	12:41:52 PM	10/21/2011 12:41	0.051
20100	0.022	0.023	0.024	0.027	12:42:52 PM	10/21/2011 12:42	0.028
20160	0.017	0.018	0.019	0.02	12:43:52 PM	10/21/2011 12:43	0.02
20220	0.012	0.012	0.013	0.014	12:44:52 PM	10/21/2011 12:44	0.014
20280	0.008	0.009	0.009	0.01	12:45:52 PM	10/21/2011 12:45	0.01
20340	0.014	0.015	0.016	0.019	12:46:52 PM	10/21/2011 12:46	0.02
20400	0.023	0.024	0.026	0.03	12:47:52 PM	10/21/2011 12:47	0.031
20460	0.014	0.015	0.016	0.018	12:48:52 PM	10/21/2011 12:48	0.018
20520	0.017	0.018	0.019	0.022	12:49:52 PM	10/21/2011 12:49	0.024
20580	0.028	0.03	0.033	0.043	12:50:52 PM	10/21/2011 12:50	0.05
20640	0.028	0.03	0.033	0.043	12:51:52 PM	10/21/2011 12:51	0.048
20700	0.026	0.028	0.031	0.04	12:52:52 PM	10/21/2011 12:52	0.043
20760	0.048	0.051	0.057	0.078	12:53:52 PM	10/21/2011 12:53	0.084
20820	0.035	0.037	0.041	0.052	12:54:52 PM	10/21/2011 12:54	0.055
20880	0.029	0.031	0.034	0.04	12:55:52 PM	10/21/2011 12:55	0.042
20940	0.04	0.042	0.046	0.056	12:56:52 PM	10/21/2011 12:56	0.059
21000	0.027	0.028	0.031	0.037	12:57:52 PM	10/21/2011 12:57	0.038
21060	0.034	0.036	0.039	0.045	12:58:52 PM	10/21/2011 12:58	0.049
21120	0.029	0.031	0.033	0.038	12:59:52 PM	10/21/2011 12:59	0.041
21180	0.027	0.028	0.031	0.036	1:00:52 PM	10/21/2011 13:00	0.037
21240	0.028	0.03	0.033	0.04	1:01:52 PM	10/21/2011 13:01	0.042
21300	0.025	0.026	0.029	0.036	1:02:52 PM	10/21/2011 13:02	0.038
21360	0.026	0.028	0.031	0.039	1:03:52 PM	10/21/2011 13:03	0.041
21420	0.026	0.028	0.031	0.038	1:04:52 PM	10/21/2011 13:04	0.039
21480	0.047	0.051	0.057	0.08	1:05:52 PM	10/21/2011 13:05	0.088
21540	0.047	0.051	0.058	0.079	1:06:52 PM	10/21/2011 13:06	0.081
21600	0.026	0.027	0.03	0.038	1:07:52 PM	10/21/2011 13:07	0.04
21660	0.033	0.035	0.038	0.045	1:08:52 PM	10/21/2011 13:08	0.048
21720	0.03	0.032	0.036	0.047	1:09:52 PM	10/21/2011 13:09	0.051
21780	0.064	0.069	0.08	0.109	1:10:52 PM	10/21/2011 13:10	0.119
21840	0.046	0.049	0.056	0.077	1:11:52 PM	10/21/2011 13:11	0.082
21900	0.043	0.046	0.053	0.071	1:12:52 PM	10/21/2011 13:12	0.075
21960	0.046	0.049	0.057	0.079	1:13:52 PM	10/21/2011 13:13	0.084
22020	0.044	0.047	0.054	0.076	1:14:52 PM	10/21/2011 13:14	0.081
22080	0.033	0.035	0.04	0.056	1:15:52 PM	10/21/2011 13:15	0.061
22140	0.058	0.063	0.072	0.102	1:16:52 PM	10/21/2011 13:16	0.111
22200	0.034	0.036	0.039	0.046	1:17:52 PM	10/21/2011 13:17	0.048
22260	0.032	0.034	0.038	0.046	1:18:52 PM	10/21/2011 13:18	0.046
22320	0.026	0.028	0.03	0.036	1:19:52 PM	10/21/2011 13:19	0.038
22380	0.027	0.029	0.032	0.041	1:20:52 PM	10/21/2011 13:20	0.043
22440	0.027	0.028	0.03	0.037	1:21:52 PM	10/21/2011 13:21	0.041
22500	0.052	0.056	0.065	0.096	1:22:52 PM	10/21/2011 13:22	0.105
22560	0.044	0.047	0.052	0.067	1:23:52 PM	10/21/2011 13:23	0.075
22620	0.029	0.03	0.033	0.04	1:24:52 PM	10/21/2011 13:24	0.042
22680	0.034	0.036	0.04	0.051	1:25:52 PM	10/21/2011 13:25	0.055
22740	0.033	0.035	0.04	0.052	1:26:52 PM	10/21/2011 13:26	0.054
22800	0.035	0.037	0.042	0.056	1:27:52 PM	10/21/2011 13:27	0.059
22860	0.035	0.037	0.041	0.054	1:28:52 PM	10/21/2011 13:28	0.059
22920	0.04	0.043	0.049	0.07	1:29:52 PM	10/21/2011 13:29	0.077
22980	0.045	0.048	0.055	0.079	1:30:52 PM	10/21/2011 13:30	0.089
23040	0.057	0.06	0.068	0.113	1:31:52 PM	10/21/2011 13:31	0.139
23100	0.062	0.067	0.079	0.116	1:32:52 PM	10/21/2011 13:32	0.132
23160	0.043	0.046	0.054	0.079	1:33:52 PM	10/21/2011 13:33	0.087
23220	0.046	0.05	0.059	0.082	1:34:52 PM	10/21/2011 13:34	0.091
23280	0.046	0.048	0.055	0.077	1:35:52 PM	10/21/2011 13:35	0.086
23340	0.042	0.045	0.051	0.07	1:36:52 PM	10/21/2011 13:36	0.079
23400	0.037	0.039	0.043	0.057	1:37:52 PM	10/21/2011 13:37	0.059
23460	0.589	0.598	0.607	0.62	1:38:52 PM	10/21/2011 13:38	0.623
23520	0.098	0.105	0.122	0.176	1:39:52 PM	10/21/2011 13:39	0.191
23580	0.057	0.061	0.07	0.098	1:40:52 PM	10/21/2011 13:40	0.105
23640	0.049	0.053	0.062	0.088	1:41:52 PM	10/21/2011 13:41	0.096
23700	0.05	0.054	0.063	0.094	1:42:52 PM	10/21/2011 13:42	0.104
23760	0.028	0.03	0.033	0.041	1:43:52 PM	10/21/2011 13:43	0.041
23820	0.034	0.036	0.041	0.055	1:44:52 PM	10/21/2011 13:44	0.057
23880	0.043	0.046	0.052	0.069	1:45:52 PM	10/21/2011 13:45	0.074
23940	0.081	0.086	0.096	0.123	1:46:52 PM	10/21/2011 13:46	0.132
24000	0.049	0.052	0.059	0.079	1:47:52 PM	10/21/2011 13:47	0.086
24060	0.031	0.034	0.037	0.046	1:48:52 PM	10/21/2011 13:48	0.048
24120	0.031	0.034	0.038	0.05	1:49:52 PM	10/21/2011 13:49	0.054
24180	0.033	0.036	0.04	0.05	1:50:52 PM	10/21/2011 13:50	0.052
24240	0.041	0.043	0.046	0.055	1:51:52 PM	10/21/2011 13:51	0.056
24300	0.042	0.045	0.051	0.065	1:52:52 PM	10/21/2011 13:52	0.068
24360	0.061	0.064	0.072	0.094	1:53:52 PM	10/21/2011 13:53	0.099
24420	0.036	0.039	0.045	0.057	1:54:52 PM	10/21/2011 13:54	0.06
24480	0.027	0.029	0.032	0.041	1:55:52 PM	10/21/2011 13:55	0.045
24540	0.028	0.03	0.032	0.038	1:56:52 PM	10/21/2011 13:56	0.04
24600	0.037	0.039	0.043	0.053	1:57:52 PM	10/21/2011 13:57	0.056
24660	0.036	0.038	0.043	0.057	1:58:52 PM	10/21/2011 13:58	0.061
24720	0.027	0.029	0.032	0.041	1:59:52 PM	10/21/2011 13:59	0.044
24780	0.02	0.021	0.023	0.028	2:00:52 PM	10/21/2011 14:00	0.029
24840	0.029	0.031	0.035	0.044	2:01:52 PM	10/21/2011 14:01	0.046
24900	0.04	0.043	0.049	0.069	2:02:52 PM	10/21/2011 14:02	0.075
24960	0.048	0.052	0.059	0.084	2:03:52 PM	10/21/2011 14:03	0.088
25020	0.06	0.065	0.076	0.115	2:04:52 PM	10/21/2011 14:04	0.126
25080	0.067	0.072	0.086	0.134	2:05:52 PM	10/21/2011 14:05	0.145

25140	0.051	0.054	0.063	0.095	2:06:52 PM	10/21/2011 14:06	0.105
25200	0.056	0.06	0.071	0.112	2:07:52 PM	10/21/2011 14:07	0.126
25260	0.09	0.098	0.12	0.197	2:08:52 PM	10/21/2011 14:08	0.221
25320	0.058	0.062	0.075	0.117	2:09:52 PM	10/21/2011 14:09	0.13
25380	0.045	0.049	0.058	0.085	2:10:52 PM	10/21/2011 14:10	0.094
25440	0.025	0.026	0.029	0.038	2:11:52 PM	10/21/2011 14:11	0.039
25500	0.031	0.033	0.036	0.048	2:12:52 PM	10/21/2011 14:12	0.05
25560	0.033	0.035	0.038	0.046	2:13:52 PM	10/21/2011 14:13	0.048
25620	0.016	0.017	0.018	0.022	2:14:52 PM	10/21/2011 14:14	0.023
25680	0.026	0.028	0.03	0.039	2:15:52 PM	10/21/2011 14:15	0.041
25740	0.023	0.025	0.027	0.032	2:16:52 PM	10/21/2011 14:16	0.032
25800	0.043	0.045	0.047	0.053	2:17:52 PM	10/21/2011 14:17	0.055
25860	0.049	0.051	0.055	0.068	2:18:52 PM	10/21/2011 14:18	0.074
25920	0.028	0.03	0.034	0.042	2:19:52 PM	10/21/2011 14:19	0.046
25980	0.023	0.024	0.026	0.032	2:20:52 PM	10/21/2011 14:20	0.033
26040	0.018	0.019	0.021	0.025	2:21:52 PM	10/21/2011 14:21	0.027
26100	0.03	0.032	0.034	0.042	2:22:52 PM	10/21/2011 14:22	0.044
26160	0.035	0.037	0.041	0.052	2:23:52 PM	10/21/2011 14:23	0.055
26220	0.039	0.041	0.045	0.055	2:24:52 PM	10/21/2011 14:24	0.057
26280	0.027	0.029	0.031	0.04	2:25:52 PM	10/21/2011 14:25	0.041
26340	0.015	0.015	0.016	0.019	2:26:52 PM	10/21/2011 14:26	0.02
26400	0.014	0.014	0.015	0.018	2:27:52 PM	10/21/2011 14:27	0.019
26460	0.02	0.021	0.024	0.032	2:28:52 PM	10/21/2011 14:28	0.033
26520	0.026	0.027	0.03	0.038	2:29:52 PM	10/21/2011 14:29	0.04
26580	0.033	0.035	0.038	0.047	2:30:52 PM	10/21/2011 14:30	0.049
26640	0.031	0.033	0.036	0.046	2:31:52 PM	10/21/2011 14:31	0.049
26700	0.025	0.027	0.03	0.037	2:32:52 PM	10/21/2011 14:32	0.038
26760	0.032	0.035	0.04	0.054	2:33:52 PM	10/21/2011 14:33	0.056
26820	0.024	0.026	0.028	0.036	2:34:52 PM	10/21/2011 14:34	0.037
26880	0.024	0.025	0.028	0.036	2:35:52 PM	10/21/2011 14:35	0.037
26940	0.024	0.026	0.03	0.04	2:36:52 PM	10/21/2011 14:36	0.041
27000	0.031	0.033	0.036	0.047	2:37:52 PM	10/21/2011 14:37	0.05
27060	0.031	0.033	0.036	0.043	2:38:52 PM	10/21/2011 14:38	0.044
27120	0.018	0.019	0.021	0.025	2:39:52 PM	10/21/2011 14:39	0.027
27180	0.015	0.016	0.017	0.02	2:40:52 PM	10/21/2011 14:40	0.021
27240	0.028	0.03	0.034	0.042	2:41:52 PM	10/21/2011 14:41	0.045
27300	0.025	0.027	0.029	0.037	2:42:52 PM	10/21/2011 14:42	0.039
27360	0.019	0.02	0.022	0.027	2:43:52 PM	10/21/2011 14:43	0.028
27420	0.021	0.022	0.024	0.028	2:44:52 PM	10/21/2011 14:44	0.03
27480	0.024	0.026	0.029	0.037	2:45:52 PM	10/21/2011 14:45	0.041
27540	0.022	0.023	0.026	0.037	2:46:52 PM	10/21/2011 14:46	0.04
27600	0.019	0.02	0.022	0.026	2:47:52 PM	10/21/2011 14:47	0.029
27660	0.02	0.021	0.023	0.029	2:48:52 PM	10/21/2011 14:48	0.031
27720	0.018	0.019	0.021	0.024	2:49:52 PM	10/21/2011 14:49	0.026
27780	0.014	0.015	0.016	0.019	2:50:52 PM	10/21/2011 14:50	0.019
27840	0.016	0.016	0.017	0.021	2:51:52 PM	10/21/2011 14:51	0.021
27900	0.015	0.016	0.017	0.019	2:52:52 PM	10/21/2011 14:52	0.019
27960	0.028	0.029	0.031	0.039	2:53:52 PM	10/21/2011 14:53	0.042
28020	0.021	0.022	0.023	0.026	2:54:52 PM	10/21/2011 14:54	0.027
28080	0.014	0.014	0.015	0.015	2:55:52 PM	10/21/2011 14:55	0.015
28140	0.017	0.018	0.018	0.02	2:56:52 PM	10/21/2011 14:56	0.02
28200	0.012	0.012	0.012	0.014	2:57:52 PM	10/21/2011 14:57	0.014
28260	0.017	0.018	0.02	0.023	2:58:52 PM	10/21/2011 14:58	0.025
28320	0.021	0.022	0.024	0.03	2:59:52 PM	10/21/2011 14:59	0.032
28380	0.022	0.023	0.026	0.033	3:00:52 PM	10/21/2011 15:00	0.035
28440	0.023	0.024	0.027	0.033	3:01:52 PM	10/21/2011 15:01	0.035
28500	0.024	0.026	0.028	0.036	3:02:52 PM	10/21/2011 15:02	0.038
28560	0.017	0.018	0.019	0.022	3:03:52 PM	10/21/2011 15:03	0.023
28620	0.024	0.025	0.028	0.034	3:04:52 PM	10/21/2011 15:04	0.036
28680	0.027	0.028	0.031	0.04	3:05:52 PM	10/21/2011 15:05	0.043
28740	0.028	0.029	0.032	0.041	3:06:52 PM	10/21/2011 15:06	0.043
28800	0.026	0.028	0.03	0.039	3:07:52 PM	10/21/2011 15:07	0.042
28860	0.025	0.027	0.03	0.038	3:08:52 PM	10/21/2011 15:08	0.04
28920	0.022	0.024	0.025	0.031	3:09:52 PM	10/21/2011 15:09	0.031
28980	0.038	0.041	0.045	0.058	3:10:52 PM	10/21/2011 15:10	0.061
29040	0.033	0.035	0.038	0.046	3:11:52 PM	10/21/2011 15:11	0.047
29100	0.032	0.034	0.038	0.049	3:12:52 PM	10/21/2011 15:12	0.053
29160	0.024	0.025	0.029	0.037	3:13:52 PM	10/21/2011 15:13	0.039
29220	0.041	0.044	0.05	0.071	3:14:52 PM	10/21/2011 15:14	0.079
29280	0.027	0.029	0.033	0.045	3:15:52 PM	10/21/2011 15:15	0.047
29340	0.03	0.033	0.039	0.055	3:16:52 PM	10/21/2011 15:16	0.057
29400	0.033	0.036	0.042	0.06	3:17:52 PM	10/21/2011 15:17	0.064
29460	0.02	0.021	0.024	0.032	3:18:52 PM	10/21/2011 15:18	0.033
29520	0.027	0.029	0.034	0.048	3:19:52 PM	10/21/2011 15:19	0.051
29580	0.038	0.041	0.049	0.072	3:20:52 PM	10/21/2011 15:20	0.078
29640	0.02	0.022	0.025	0.035	3:21:52 PM	10/21/2011 15:21	0.037
29700	0.018	0.018	0.021	0.029	3:22:52 PM	10/21/2011 15:22	0.032
29760	0.035	0.037	0.043	0.06	3:23:52 PM	10/21/2011 15:23	0.067
29820	0.046	0.049	0.054	0.072	3:24:52 PM	10/21/2011 15:24	0.076
29880	0.03	0.033	0.037	0.05	3:25:52 PM	10/21/2011 15:25	0.053
29940	0.025	0.026	0.03	0.042	3:26:52 PM	10/21/2011 15:26	0.046
30000	0.028	0.03	0.033	0.044	3:27:52 PM	10/21/2011 15:27	0.048
30060	0.023	0.025	0.028	0.034	3:28:52 PM	10/21/2011 15:28	0.037
30120	0.037	0.04	0.045	0.06	3:29:52 PM	10/21/2011 15:29	0.061
30180	0.044	0.047	0.054	0.07	3:30:52 PM	10/21/2011 15:30	0.071
30240	0.034	0.037	0.041	0.052	3:31:52 PM	10/21/2011 15:31	0.052
30300	0.075	0.079	0.088	0.116	3:32:52 PM	10/21/2011 15:32	0.128
30360	0.043	0.046	0.053	0.073	3:33:52 PM	10/21/2011 15:33	0.078
30420	0.062	0.068	0.08	0.117	3:34:52 PM	10/21/2011 15:34	0.125
30480	0.067	0.072	0.082	0.112	3:35:52 PM	10/21/2011 15:35	0.12
30540	0.056	0.059	0.066	0.087	3:36:52 PM	10/21/2011 15:36	0.092

30600	0.055	0.059	0.066	0.087	3:37:52 PM	10/21/2011 15:37	0.092	
30660	0.055	0.058	0.066	0.088	3:38:52 PM	10/21/2011 15:38	0.095	
30720	0.037	0.04	0.046	0.058	3:39:52 PM	10/21/2011 15:39	0.063	
30780	0.05	0.053	0.059	0.086	3:40:52 PM	10/21/2011 15:40	0.097	
30840	0.058	0.062	0.071	0.097	3:41:52 PM	10/21/2011 15:41	0.105	
30900	0.072	0.077	0.088	0.129	3:42:52 PM	10/21/2011 15:42	0.142	
30960	0.053	0.056	0.066	0.09	3:43:52 PM	10/21/2011 15:43	0.095	
31020	0.061	0.065	0.072	0.091	3:44:52 PM	10/21/2011 15:44	0.096	
31080	0.061	0.065	0.072	0.086	3:45:52 PM	10/21/2011 15:45	0.091	
31140	0.06	0.063	0.071	0.093	3:46:52 PM	10/21/2011 15:46	0.102	
31200	0.102	0.112	0.136	0.196	3:47:52 PM	10/21/2011 15:47	0.206	
31260	0.049	0.054	0.064	0.093	3:48:52 PM	10/21/2011 15:48	0.099	
31320	0.04	0.044	0.052	0.075	3:49:52 PM	10/21/2011 15:49	0.08	
31380	0.043	0.047	0.055	0.08	3:50:52 PM	10/21/2011 15:50	0.087	
31440	0.031	0.033	0.039	0.056	3:51:52 PM	10/21/2011 15:51	0.06	
31500	0.028	0.03	0.034	0.047	3:52:52 PM	10/21/2011 15:52	0.049	
31560	0.067	0.072	0.086	0.13	3:53:52 PM	10/21/2011 15:53	0.144	
31620	0.061	0.067	0.08	0.126	3:54:52 PM	10/21/2011 15:54	0.141	
31680	0.055	0.06	0.07	0.104	3:55:52 PM	10/21/2011 15:55	0.118	
31740	0.046	0.05	0.059	0.089	3:56:52 PM	10/21/2011 15:56	0.1	
31800	0.043	0.047	0.056	0.084	3:57:52 PM	10/21/2011 15:57	0.093	
31860	0.039	0.042	0.048	0.069	3:58:52 PM	10/21/2011 15:58	0.075	
31920	0.049	0.052	0.061	0.087	3:59:52 PM	10/21/2011 15:59	0.097	
31980	0.059	0.064	0.075	0.121	4:00:52 PM	10/21/2011 16:00	0.134	
32040	0.066	0.071	0.083	0.131	4:01:52 PM	10/21/2011 16:01	0.149	
32100	0.059	0.063	0.073	0.114	4:02:52 PM	10/21/2011 16:02	0.129	
32160	0.041	0.045	0.052	0.082	4:03:52 PM	10/21/2011 16:03	0.094	
32220	0.053	0.057	0.066	0.101	4:04:52 PM	10/21/2011 16:04	0.116	
32280	0.047	0.05	0.058	0.082	4:05:52 PM	10/21/2011 16:05	0.09	
32340	0.023	0.025	0.028	0.037	4:06:52 PM	10/21/2011 16:06	0.04	
32400	0.047	0.05	0.055	0.069	4:07:52 PM	10/21/2011 16:07	0.072	
32460	0.021	0.022	0.025	0.032	4:08:52 PM	10/21/2011 16:08	0.033	
32520	0.028	0.03	0.034	0.043	4:09:52 PM	10/21/2011 16:09	0.045	
32580	0.042	0.045	0.051	0.07	4:10:52 PM	10/21/2011 16:10	0.076	
32640	0.038	0.041	0.046	0.062	4:11:52 PM	10/21/2011 16:11	0.066	
32700	0.047	0.051	0.058	0.076	4:12:52 PM	10/21/2011 16:12	0.08	
32760	0.027	0.029	0.033	0.044	4:13:52 PM	10/21/2011 16:13	0.048	
32820	0.031	0.033	0.038	0.053	4:14:52 PM	10/21/2011 16:14	0.058	
32880	0.043	0.046	0.052	0.077	4:15:52 PM	10/21/2011 16:15	0.084	
32940	0.021	0.022	0.023	0.028	4:16:52 PM	10/21/2011 16:16	0.029	Flow Error
33000	0.007	0.007	0.007	0.007	4:17:52 PM	10/21/2011 16:17	0.007	Flow Error
33060	0.005	0.005	0.005	0.005	4:18:52 PM	10/21/2011 16:18	0.005	Flow Error
33120	0.008	0.008	0.008	0.008	4:19:52 PM	10/21/2011 16:19	0.008	Flow Error
33180	0.025	0.025	0.025	0.025	4:20:52 PM	10/21/2011 16:20	0.025	Flow Error

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_004
Test Start Time	7:14:28 AM
Test Start Date	10/22/2011
Test Length [D:H:M]	0:11:39
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.027
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.285
PM1 TWA [mg/m3]	0.032
PM2.5 Average [mg/m3]	0.028
PM2.5 Minimum [mg/m3]	0.006
PM2.5 Maximum [mg/m3]	0.311
PM2.5 TWA [mg/m3]	0.034
PM4 Average [mg/m3]	0.032
PM4 Minimum [mg/m3]	0.006
PM4 Maximum [mg/m3]	0.39
PM4 TWA [mg/m3]	0.038
PM10 Average [mg/m3]	0.042
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.666
PM10 TWA [mg/m3]	0.052
TOTAL Average [mg/m3]	0.045
TOTAL Minimum [mg/m3]	0.007
TOTAL Maximum [mg/m3]	0.732
TOTAL TWA [mg/m3]	0.056
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	699



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:14:28 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.091	0.094	0.102	0.166	7:15:28 AM	10/22/2011 7:15	0.249		
120	0.101	0.105	0.113	0.173	7:16:28 AM	10/22/2011 7:16	0.26		
180	0.082	0.086	0.093	0.139	7:17:28 AM	10/22/2011 7:17	0.202		
240	0.063	0.066	0.071	0.104	7:18:28 AM	10/22/2011 7:18	0.138		
300	0.037	0.039	0.042	0.058	7:19:28 AM	10/22/2011 7:19	0.071		
360	0.032	0.033	0.035	0.042	7:20:28 AM	10/22/2011 7:20	0.048		
420	0.024	0.025	0.027	0.031	7:21:28 AM	10/22/2011 7:21	0.034		
480	0.033	0.035	0.037	0.044	7:22:28 AM	10/22/2011 7:22	0.052		
540	0.032	0.034	0.036	0.04	7:23:28 AM	10/22/2011 7:23	0.043		
600	0.032	0.034	0.036	0.039	7:24:28 AM	10/22/2011 7:24	0.042		
660	0.034	0.036	0.038	0.043	7:25:28 AM	10/22/2011 7:25	0.045		
720	0.025	0.026	0.028	0.031	7:26:28 AM	10/22/2011 7:26	0.033		
780	0.022	0.023	0.024	0.028	7:27:28 AM	10/22/2011 7:27	0.031		
840	0.024	0.025	0.026	0.029	7:28:28 AM	10/22/2011 7:28	0.033		
900	0.036	0.037	0.04	0.049	7:29:28 AM	10/22/2011 7:29	0.057		
960	0.038	0.04	0.042	0.052	7:30:28 AM	10/22/2011 7:30	0.055		
1020	0.033	0.035	0.037	0.044	7:31:28 AM	10/22/2011 7:31	0.047		
1080	0.035	0.037	0.039	0.044	7:32:28 AM	10/22/2011 7:32	0.048		
1140	0.044	0.045	0.046	0.052	7:33:28 AM	10/22/2011 7:33	0.056		
1200	0.052	0.053	0.055	0.07	7:34:28 AM	10/22/2011 7:34	0.094		
1260	0.08	0.081	0.084	0.097	7:35:28 AM	10/22/2011 7:35	0.106		
1320	0.039	0.041	0.043	0.05	7:36:28 AM	10/22/2011 7:36	0.052		
1380	0.05	0.052	0.055	0.062	7:37:28 AM	10/22/2011 7:37	0.063		
1440	0.053	0.056	0.06	0.071	7:38:28 AM	10/22/2011 7:38	0.073		
1500	0.052	0.053	0.056	0.063	7:39:28 AM	10/22/2011 7:39	0.065		
1560	0.039	0.04	0.042	0.044	7:40:28 AM	10/22/2011 7:40	0.045		
1620	0.034	0.034	0.035	0.037	7:41:28 AM	10/22/2011 7:41	0.037		
1680	0.03	0.031	0.032	0.035	7:42:28 AM	10/22/2011 7:42	0.035		
1740	0.035	0.036	0.037	0.04	7:43:28 AM	10/22/2011 7:43	0.04		
1800	0.031	0.031	0.032	0.035	7:44:28 AM	10/22/2011 7:44	0.035		
1860	0.022	0.023	0.023	0.025	7:45:28 AM	10/22/2011 7:45	0.025		
1920	0.023	0.024	0.024	0.025	7:46:28 AM	10/22/2011 7:46	0.025		
1980	0.028	0.028	0.029	0.03	7:47:28 AM	10/22/2011 7:47	0.03		
2040	0.022	0.022	0.023	0.026	7:48:28 AM	10/22/2011 7:48	0.026		
2100	0.027	0.028	0.03	0.041	7:49:28 AM	10/22/2011 7:49	0.046		
2160	0.03	0.032	0.035	0.047	7:50:28 AM	10/22/2011 7:50	0.052		
2220	0.047	0.05	0.055	0.071	7:51:28 AM	10/22/2011 7:51	0.079		
2280	0.055	0.058	0.063	0.075	7:52:28 AM	10/22/2011 7:52	0.08		
2340	0.055	0.058	0.063	0.075	7:53:28 AM	10/22/2011 7:53	0.079		
2400	0.066	0.068	0.071	0.079	7:54:28 AM	10/22/2011 7:54	0.083		
2460	0.043	0.045	0.047	0.059	7:55:28 AM	10/22/2011 7:55	0.061		
2520	0.038	0.04	0.044	0.055	7:56:28 AM	10/22/2011 7:56	0.057		
2580	0.046	0.048	0.049	0.053	7:57:28 AM	10/22/2011 7:57	0.053		
2640	0.043	0.044	0.046	0.048	7:58:28 AM	10/22/2011 7:58	0.049		
2700	0.047	0.049	0.051	0.052	7:59:28 AM	10/22/2011 7:59	0.053		
2760	0.062	0.064	0.066	0.068	8:00:28 AM	10/22/2011 8:00	0.069		
2820	0.034	0.035	0.037	0.039	8:01:28 AM	10/22/2011 8:01	0.039		
2880	0.028	0.028	0.029	0.031	8:02:28 AM	10/22/2011 8:02	0.031		
2940	0.022	0.022	0.023	0.025	8:03:28 AM	10/22/2011 8:03	0.025		
3000	0.031	0.033	0.035	0.037	8:04:28 AM	10/22/2011 8:04	0.039		
3060	0.048	0.052	0.057	0.07	8:05:28 AM	10/22/2011 8:05	0.072		
3120	0.057	0.061	0.067	0.084	8:06:28 AM	10/22/2011 8:06	0.087		
3180	0.062	0.065	0.071	0.087	8:07:28 AM	10/22/2011 8:07	0.09		
3240	0.058	0.06	0.064	0.074	8:08:28 AM	10/22/2011 8:08	0.075		

3300	0.094	0.097	0.102	0.115	8:09:28 AM	10/22/2011 8:09	0.117
3360	0.073	0.077	0.083	0.098	8:10:28 AM	10/22/2011 8:10	0.099
3420	0.068	0.072	0.078	0.099	8:11:28 AM	10/22/2011 8:11	0.11
3480	0.055	0.057	0.062	0.074	8:12:28 AM	10/22/2011 8:12	0.08
3540	0.057	0.059	0.063	0.074	8:13:28 AM	10/22/2011 8:13	0.077
3600	0.044	0.046	0.049	0.055	8:14:28 AM	10/22/2011 8:14	0.056
3660	0.059	0.06	0.061	0.065	8:15:28 AM	10/22/2011 8:15	0.065
3720	0.038	0.039	0.04	0.042	8:16:28 AM	10/22/2011 8:16	0.042
3780	0.035	0.036	0.037	0.039	8:17:28 AM	10/22/2011 8:17	0.04
3840	0.035	0.036	0.038	0.041	8:18:28 AM	10/22/2011 8:18	0.041
3900	0.036	0.037	0.04	0.046	8:19:28 AM	10/22/2011 8:19	0.046
3960	0.034	0.035	0.038	0.045	8:20:28 AM	10/22/2011 8:20	0.046
4020	0.036	0.038	0.042	0.054	8:21:28 AM	10/22/2011 8:21	0.058
4080	0.038	0.04	0.043	0.056	8:22:28 AM	10/22/2011 8:22	0.059
4140	0.037	0.038	0.041	0.052	8:23:28 AM	10/22/2011 8:23	0.055
4200	0.027	0.027	0.028	0.03	8:24:28 AM	10/22/2011 8:24	0.03
4260	0.032	0.033	0.035	0.04	8:25:28 AM	10/22/2011 8:25	0.042
4320	0.038	0.039	0.043	0.055	8:26:28 AM	10/22/2011 8:26	0.058
4380	0.02	0.021	0.022	0.025	8:27:28 AM	10/22/2011 8:27	0.026
4440	0.022	0.022	0.023	0.026	8:28:28 AM	10/22/2011 8:28	0.027
4500	0.02	0.02	0.021	0.023	8:29:28 AM	10/22/2011 8:29	0.025
4560	0.021	0.022	0.022	0.024	8:30:28 AM	10/22/2011 8:30	0.025
4620	0.026	0.027	0.028	0.033	8:31:28 AM	10/22/2011 8:31	0.035
4680	0.021	0.021	0.022	0.024	8:32:28 AM	10/22/2011 8:32	0.026
4740	0.017	0.018	0.018	0.02	8:33:28 AM	10/22/2011 8:33	0.021
4800	0.017	0.018	0.018	0.02	8:34:28 AM	10/22/2011 8:34	0.02
4860	0.018	0.018	0.019	0.02	8:35:28 AM	10/22/2011 8:35	0.021
4920	0.02	0.02	0.021	0.022	8:36:28 AM	10/22/2011 8:36	0.023
4980	0.03	0.03	0.031	0.031	8:37:28 AM	10/22/2011 8:37	0.031
5040	0.028	0.029	0.029	0.031	8:38:28 AM	10/22/2011 8:38	0.031
5100	0.023	0.023	0.023	0.024	8:39:28 AM	10/22/2011 8:39	0.024
5160	0.025	0.026	0.026	0.027	8:40:28 AM	10/22/2011 8:40	0.027
5220	0.021	0.021	0.022	0.023	8:41:28 AM	10/22/2011 8:41	0.024
5280	0.024	0.024	0.025	0.026	8:42:28 AM	10/22/2011 8:42	0.027
5340	0.026	0.026	0.027	0.028	8:43:28 AM	10/22/2011 8:43	0.029
5400	0.028	0.029	0.03	0.034	8:44:28 AM	10/22/2011 8:44	0.035
5460	0.023	0.024	0.024	0.027	8:45:28 AM	10/22/2011 8:45	0.028
5520	0.018	0.019	0.02	0.021	8:46:28 AM	10/22/2011 8:46	0.021
5580	0.025	0.025	0.026	0.028	8:47:28 AM	10/22/2011 8:47	0.028
5640	0.024	0.025	0.025	0.027	8:48:28 AM	10/22/2011 8:48	0.027
5700	0.024	0.024	0.024	0.026	8:49:28 AM	10/22/2011 8:49	0.026
5760	0.025	0.026	0.026	0.027	8:50:28 AM	10/22/2011 8:50	0.028
5820	0.027	0.028	0.028	0.03	8:51:28 AM	10/22/2011 8:51	0.03
5880	0.038	0.039	0.042	0.052	8:52:28 AM	10/22/2011 8:52	0.056
5940	0.035	0.037	0.04	0.049	8:53:28 AM	10/22/2011 8:53	0.052
6000	0.028	0.029	0.03	0.034	8:54:28 AM	10/22/2011 8:54	0.034
6060	0.019	0.019	0.02	0.023	8:55:28 AM	10/22/2011 8:55	0.024
6120	0.02	0.02	0.021	0.022	8:56:28 AM	10/22/2011 8:56	0.022
6180	0.019	0.02	0.02	0.022	8:57:28 AM	10/22/2011 8:57	0.023
6240	0.03	0.031	0.032	0.033	8:58:28 AM	10/22/2011 8:58	0.034
6300	0.02	0.021	0.021	0.022	8:59:28 AM	10/22/2011 8:59	0.023
6360	0.02	0.021	0.021	0.022	9:00:28 AM	10/22/2011 9:00	0.022
6420	0.038	0.039	0.043	0.06	9:01:28 AM	10/22/2011 9:01	0.067
6480	0.063	0.067	0.077	0.119	9:02:28 AM	10/22/2011 9:02	0.136
6540	0.07	0.074	0.084	0.13	9:03:28 AM	10/22/2011 9:03	0.145
6600	0.052	0.053	0.056	0.068	9:04:28 AM	10/22/2011 9:04	0.074
6660	0.041	0.042	0.043	0.046	9:05:28 AM	10/22/2011 9:05	0.047
6720	0.02	0.021	0.022	0.023	9:06:28 AM	10/22/2011 9:06	0.023
6780	0.016	0.016	0.016	0.018	9:07:28 AM	10/22/2011 9:07	0.018
6840	0.033	0.035	0.037	0.044	9:08:28 AM	10/22/2011 9:08	0.045
6900	0.054	0.056	0.059	0.07	9:09:28 AM	10/22/2011 9:09	0.072
6960	0.026	0.027	0.028	0.032	9:10:28 AM	10/22/2011 9:10	0.034
7020	0.027	0.028	0.029	0.033	9:11:28 AM	10/22/2011 9:11	0.033
7080	0.022	0.023	0.024	0.027	9:12:28 AM	10/22/2011 9:12	0.028
7140	0.019	0.019	0.021	0.023	9:13:28 AM	10/22/2011 9:13	0.023
7200	0.029	0.03	0.032	0.04	9:14:28 AM	10/22/2011 9:14	0.042
7260	0.026	0.026	0.028	0.033	9:15:28 AM	10/22/2011 9:15	0.034
7320	0.015	0.016	0.016	0.019	9:16:28 AM	10/22/2011 9:16	0.02
7380	0.03	0.031	0.033	0.042	9:17:28 AM	10/22/2011 9:17	0.047
7440	0.031	0.032	0.035	0.043	9:18:28 AM	10/22/2011 9:18	0.046
7500	0.027	0.028	0.03	0.038	9:19:28 AM	10/22/2011 9:19	0.042
7560	0.025	0.026	0.027	0.031	9:20:28 AM	10/22/2011 9:20	0.033
7620	0.023	0.024	0.025	0.031	9:21:28 AM	10/22/2011 9:21	0.032
7680	0.044	0.047	0.053	0.073	9:22:28 AM	10/22/2011 9:22	0.083
7740	0.032	0.033	0.036	0.045	9:23:28 AM	10/22/2011 9:23	0.047
7800	0.036	0.038	0.04	0.044	9:24:28 AM	10/22/2011 9:24	0.045
7860	0.036	0.037	0.039	0.042	9:25:28 AM	10/22/2011 9:25	0.042
7920	0.031	0.032	0.033	0.035	9:26:28 AM	10/22/2011 9:26	0.035
7980	0.037	0.038	0.04	0.043	9:27:28 AM	10/22/2011 9:27	0.043
8040	0.066	0.069	0.077	0.101	9:28:28 AM	10/22/2011 9:28	0.107
8100	0.039	0.041	0.045	0.054	9:29:28 AM	10/22/2011 9:29	0.056
8160	0.023	0.024	0.025	0.027	9:30:28 AM	10/22/2011 9:30	0.027
8220	0.043	0.044	0.047	0.05	9:31:28 AM	10/22/2011 9:31	0.052
8280	0.039	0.041	0.043	0.047	9:32:28 AM	10/22/2011 9:32	0.048
8340	0.027	0.027	0.028	0.031	9:33:28 AM	10/22/2011 9:33	0.031
8400	0.023	0.024	0.025	0.027	9:34:28 AM	10/22/2011 9:34	0.027
8460	0.02	0.02	0.021	0.022	9:35:28 AM	10/22/2011 9:35	0.022
8520	0.029	0.03	0.032	0.039	9:36:28 AM	10/22/2011 9:36	0.042
8580	0.033	0.035	0.037	0.047	9:37:28 AM	10/22/2011 9:37	0.05
8640	0.032	0.033	0.035	0.039	9:38:28 AM	10/22/2011 9:38	0.042
8700	0.033	0.034	0.035	0.039	9:39:28 AM	10/22/2011 9:39	0.04

8760	0.039	0.041	0.045	0.06	9:40:28 AM	10/22/2011 9:40	0.066
8820	0.027	0.028	0.029	0.034	9:41:28 AM	10/22/2011 9:41	0.035
8880	0.026	0.027	0.028	0.031	9:42:28 AM	10/22/2011 9:42	0.032
8940	0.034	0.035	0.036	0.039	9:43:28 AM	10/22/2011 9:43	0.04
9000	0.036	0.037	0.038	0.04	9:44:28 AM	10/22/2011 9:44	0.04
9060	0.039	0.04	0.041	0.042	9:45:28 AM	10/22/2011 9:45	0.042
9120	0.037	0.038	0.04	0.045	9:46:28 AM	10/22/2011 9:46	0.046
9180	0.032	0.033	0.035	0.041	9:47:28 AM	10/22/2011 9:47	0.043
9240	0.033	0.034	0.036	0.042	9:48:28 AM	10/22/2011 9:48	0.044
9300	0.029	0.03	0.031	0.036	9:49:28 AM	10/22/2011 9:49	0.037
9360	0.033	0.034	0.036	0.044	9:50:28 AM	10/22/2011 9:50	0.048
9420	0.034	0.036	0.04	0.055	9:51:28 AM	10/22/2011 9:51	0.061
9480	0.034	0.035	0.04	0.054	9:52:28 AM	10/22/2011 9:52	0.06
9540	0.036	0.037	0.039	0.048	9:53:28 AM	10/22/2011 9:53	0.05
9600	0.033	0.034	0.036	0.042	9:54:28 AM	10/22/2011 9:54	0.043
9660	0.036	0.037	0.042	0.059	9:55:28 AM	10/22/2011 9:55	0.063
9720	0.065	0.068	0.079	0.119	9:56:28 AM	10/22/2011 9:56	0.13
9780	0.043	0.045	0.048	0.06	9:57:28 AM	10/22/2011 9:57	0.061
9840	0.028	0.028	0.03	0.035	9:58:28 AM	10/22/2011 9:58	0.036
9900	0.038	0.039	0.042	0.045	9:59:28 AM	10/22/2011 9:59	0.047
9960	0.025	0.026	0.026	0.028	10:00:28 AM	10/22/2011 10:00	0.03
10020	0.022	0.023	0.023	0.024	10:01:28 AM	10/22/2011 10:01	0.024
10080	0.027	0.028	0.03	0.038	10:02:28 AM	10/22/2011 10:02	0.04
10140	0.107	0.115	0.142	0.233	10:03:28 AM	10/22/2011 10:03	0.259
10200	0.069	0.074	0.09	0.145	10:04:28 AM	10/22/2011 10:04	0.164
10260	0.049	0.052	0.061	0.088	10:05:28 AM	10/22/2011 10:05	0.098
10320	0.042	0.045	0.052	0.076	10:06:28 AM	10/22/2011 10:06	0.083
10380	0.028	0.03	0.033	0.044	10:07:28 AM	10/22/2011 10:07	0.048
10440	0.026	0.027	0.029	0.037	10:08:28 AM	10/22/2011 10:08	0.039
10500	0.025	0.026	0.028	0.036	10:09:28 AM	10/22/2011 10:09	0.04
10560	0.033	0.035	0.039	0.054	10:10:28 AM	10/22/2011 10:10	0.06
10620	0.026	0.027	0.03	0.04	10:11:28 AM	10/22/2011 10:11	0.044
10680	0.091	0.098	0.12	0.206	10:12:28 AM	10/22/2011 10:12	0.232
10740	0.082	0.089	0.109	0.184	10:13:28 AM	10/22/2011 10:13	0.204
10800	0.105	0.114	0.14	0.227	10:14:28 AM	10/22/2011 10:14	0.248
10860	0.065	0.071	0.086	0.139	10:15:28 AM	10/22/2011 10:15	0.152
10920	0.034	0.035	0.039	0.052	10:16:28 AM	10/22/2011 10:16	0.056
10980	0.025	0.026	0.027	0.032	10:17:28 AM	10/22/2011 10:17	0.032
11040	0.026	0.027	0.029	0.036	10:18:28 AM	10/22/2011 10:18	0.038
11100	0.034	0.035	0.038	0.048	10:19:28 AM	10/22/2011 10:19	0.053
11160	0.037	0.038	0.042	0.054	10:20:28 AM	10/22/2011 10:20	0.057
11220	0.032	0.033	0.037	0.048	10:21:28 AM	10/22/2011 10:21	0.054
11280	0.026	0.028	0.03	0.036	10:22:28 AM	10/22/2011 10:22	0.038
11340	0.031	0.032	0.035	0.043	10:23:28 AM	10/22/2011 10:23	0.044
11400	0.032	0.033	0.036	0.045	10:24:28 AM	10/22/2011 10:24	0.049
11460	0.039	0.04	0.045	0.059	10:25:28 AM	10/22/2011 10:25	0.064
11520	0.034	0.035	0.038	0.049	10:26:28 AM	10/22/2011 10:26	0.051
11580	0.031	0.032	0.033	0.039	10:27:28 AM	10/22/2011 10:27	0.04
11640	0.033	0.034	0.037	0.047	10:28:28 AM	10/22/2011 10:28	0.048
11700	0.043	0.045	0.051	0.07	10:29:28 AM	10/22/2011 10:29	0.076
11760	0.054	0.057	0.064	0.084	10:30:28 AM	10/22/2011 10:30	0.09
11820	0.044	0.046	0.05	0.064	10:31:28 AM	10/22/2011 10:31	0.066
11880	0.02	0.02	0.021	0.024	10:32:28 AM	10/22/2011 10:32	0.024
11940	0.025	0.025	0.027	0.032	10:33:28 AM	10/22/2011 10:33	0.032
12000	0.028	0.028	0.031	0.036	10:34:28 AM	10/22/2011 10:34	0.037
12060	0.025	0.026	0.027	0.033	10:35:28 AM	10/22/2011 10:35	0.035
12120	0.092	0.096	0.106	0.144	10:36:28 AM	10/22/2011 10:36	0.156
12180	0.042	0.044	0.048	0.059	10:37:28 AM	10/22/2011 10:37	0.062
12240	0.032	0.033	0.035	0.044	10:38:28 AM	10/22/2011 10:38	0.046
12300	0.024	0.025	0.026	0.029	10:39:28 AM	10/22/2011 10:39	0.03
12360	0.025	0.025	0.026	0.029	10:40:28 AM	10/22/2011 10:40	0.03
12420	0.045	0.047	0.055	0.087	10:41:28 AM	10/22/2011 10:41	0.095
12480	0.038	0.04	0.046	0.072	10:42:28 AM	10/22/2011 10:42	0.076
12540	0.029	0.03	0.034	0.045	10:43:28 AM	10/22/2011 10:43	0.048
12600	0.067	0.071	0.085	0.136	10:44:28 AM	10/22/2011 10:44	0.152
12660	0.111	0.121	0.149	0.25	10:45:28 AM	10/22/2011 10:45	0.278
12720	0.091	0.098	0.117	0.189	10:46:28 AM	10/22/2011 10:46	0.215
12780	0.111	0.12	0.144	0.239	10:47:28 AM	10/22/2011 10:47	0.272
12840	0.081	0.086	0.103	0.165	10:48:28 AM	10/22/2011 10:48	0.182
12900	0.067	0.071	0.085	0.134	10:49:28 AM	10/22/2011 10:49	0.145
12960	0.047	0.05	0.058	0.084	10:50:28 AM	10/22/2011 10:50	0.09
13020	0.044	0.046	0.053	0.079	10:51:28 AM	10/22/2011 10:51	0.087
13080	0.052	0.055	0.066	0.101	10:52:28 AM	10/22/2011 10:52	0.113
13140	0.038	0.041	0.047	0.07	10:53:28 AM	10/22/2011 10:53	0.075
13200	0.043	0.046	0.053	0.076	10:54:28 AM	10/22/2011 10:54	0.083
13260	0.03	0.032	0.036	0.047	10:55:28 AM	10/22/2011 10:55	0.048
13320	0.027	0.027	0.029	0.033	10:56:28 AM	10/22/2011 10:56	0.034
13380	0.021	0.022	0.023	0.029	10:57:28 AM	10/22/2011 10:57	0.03
13440	0.02	0.021	0.022	0.027	10:58:28 AM	10/22/2011 10:58	0.03
13500	0.024	0.025	0.026	0.032	10:59:28 AM	10/22/2011 10:59	0.034
13560	0.035	0.036	0.041	0.059	11:00:28 AM	10/22/2011 11:00	0.064
13620	0.032	0.033	0.037	0.051	11:01:28 AM	10/22/2011 11:01	0.053
13680	0.032	0.032	0.035	0.045	11:02:28 AM	10/22/2011 11:02	0.051
13740	0.06	0.062	0.066	0.091	11:03:28 AM	10/22/2011 11:03	0.102
13800	0.021	0.022	0.023	0.027	11:04:28 AM	10/22/2011 11:04	0.028
13860	0.022	0.023	0.024	0.028	11:05:28 AM	10/22/2011 11:05	0.03
13920	0.061	0.066	0.078	0.12	11:06:28 AM	10/22/2011 11:06	0.128
13980	0.115	0.124	0.153	0.255	11:07:28 AM	10/22/2011 11:07	0.282
14040	0.175	0.189	0.235	0.408	11:08:28 AM	10/22/2011 11:08	0.456
14100	0.098	0.105	0.129	0.221	11:09:28 AM	10/22/2011 11:09	0.25
14160	0.067	0.072	0.086	0.143	11:10:28 AM	10/22/2011 11:10	0.164

14220	0.065	0.069	0.084	0.142	11:11:28 AM	10/22/2011 11:11	0.165
14280	0.034	0.036	0.042	0.062	11:12:28 AM	10/22/2011 11:12	0.066
14340	0.023	0.025	0.029	0.04	11:13:28 AM	10/22/2011 11:13	0.043
14400	0.013	0.013	0.014	0.016	11:14:28 AM	10/22/2011 11:14	0.016
14460	0.012	0.013	0.013	0.017	11:15:28 AM	10/22/2011 11:15	0.018
14520	0.023	0.024	0.026	0.036	11:16:28 AM	10/22/2011 11:16	0.039
14580	0.023	0.024	0.027	0.035	11:17:28 AM	10/22/2011 11:17	0.036
14640	0.017	0.017	0.018	0.021	11:18:28 AM	10/22/2011 11:18	0.022
14700	0.016	0.016	0.018	0.021	11:19:28 AM	10/22/2011 11:19	0.021
14760	0.014	0.015	0.016	0.018	11:20:28 AM	10/22/2011 11:20	0.019
14820	0.014	0.014	0.015	0.018	11:21:28 AM	10/22/2011 11:21	0.019
14880	0.019	0.02	0.023	0.028	11:22:28 AM	10/22/2011 11:22	0.028
14940	0.015	0.016	0.018	0.021	11:23:28 AM	10/22/2011 11:23	0.022
15000	0.02	0.02	0.022	0.025	11:24:28 AM	10/22/2011 11:24	0.026
15060	0.021	0.022	0.023	0.027	11:25:28 AM	10/22/2011 11:25	0.028
15120	0.017	0.018	0.019	0.022	11:26:28 AM	10/22/2011 11:26	0.022
15180	0.02	0.02	0.022	0.029	11:27:28 AM	10/22/2011 11:27	0.03
15240	0.03	0.032	0.037	0.051	11:28:28 AM	10/22/2011 11:28	0.054
15300	0.023	0.025	0.028	0.041	11:29:28 AM	10/22/2011 11:29	0.043
15360	0.014	0.015	0.016	0.021	11:30:28 AM	10/22/2011 11:30	0.023
15420	0.015	0.016	0.018	0.023	11:31:28 AM	10/22/2011 11:31	0.024
15480	0.017	0.018	0.021	0.029	11:32:28 AM	10/22/2011 11:32	0.031
15540	0.024	0.025	0.029	0.042	11:33:28 AM	10/22/2011 11:33	0.045
15600	0.017	0.018	0.02	0.027	11:34:28 AM	10/22/2011 11:34	0.029
15660	0.019	0.02	0.023	0.034	11:35:28 AM	10/22/2011 11:35	0.036
15720	0.024	0.025	0.028	0.042	11:36:28 AM	10/22/2011 11:36	0.048
15780	0.015	0.016	0.017	0.021	11:37:28 AM	10/22/2011 11:37	0.023
15840	0.013	0.013	0.013	0.015	11:38:28 AM	10/22/2011 11:38	0.015
15900	0.012	0.012	0.013	0.014	11:39:28 AM	10/22/2011 11:39	0.014
15960	0.012	0.013	0.014	0.017	11:40:28 AM	10/22/2011 11:40	0.017
16020	0.016	0.016	0.018	0.024	11:41:28 AM	10/22/2011 11:41	0.026
16080	0.013	0.013	0.014	0.017	11:42:28 AM	10/22/2011 11:42	0.017
16140	0.032	0.034	0.041	0.062	11:43:28 AM	10/22/2011 11:43	0.067
16200	0.043	0.046	0.055	0.078	11:44:28 AM	10/22/2011 11:44	0.088
16260	0.019	0.02	0.022	0.03	11:45:28 AM	10/22/2011 11:45	0.031
16320	0.021	0.022	0.025	0.032	11:46:28 AM	10/22/2011 11:46	0.033
16380	0.016	0.016	0.018	0.022	11:47:28 AM	10/22/2011 11:47	0.022
16440	0.024	0.025	0.028	0.038	11:48:28 AM	10/22/2011 11:48	0.04
16500	0.025	0.026	0.03	0.039	11:49:28 AM	10/22/2011 11:49	0.042
16560	0.027	0.029	0.033	0.047	11:50:28 AM	10/22/2011 11:50	0.05
16620	0.027	0.029	0.033	0.049	11:51:28 AM	10/22/2011 11:51	0.055
16680	0.044	0.048	0.057	0.089	11:52:28 AM	10/22/2011 11:52	0.098
16740	0.022	0.023	0.027	0.038	11:53:28 AM	10/22/2011 11:53	0.043
16800	0.016	0.017	0.02	0.027	11:54:28 AM	10/22/2011 11:54	0.028
16860	0.009	0.009	0.01	0.011	11:55:28 AM	10/22/2011 11:55	0.011
16920	0.007	0.007	0.007	0.008	11:56:28 AM	10/22/2011 11:56	0.008
16980	0.009	0.009	0.009	0.011	11:57:28 AM	10/22/2011 11:57	0.011
17040	0.013	0.013	0.013	0.014	11:58:28 AM	10/22/2011 11:58	0.014
17100	0.006	0.007	0.007	0.007	11:59:28 AM	10/22/2011 11:59	0.008
17160	0.01	0.01	0.011	0.012	12:00:28 PM	10/22/2011 12:00	0.013
17220	0.016	0.017	0.019	0.022	12:01:28 PM	10/22/2011 12:01	0.024
17280	0.023	0.025	0.03	0.041	12:02:28 PM	10/22/2011 12:02	0.044
17340	0.011	0.011	0.012	0.015	12:03:28 PM	10/22/2011 12:03	0.015
17400	0.013	0.014	0.015	0.02	12:04:28 PM	10/22/2011 12:04	0.022
17460	0.052	0.056	0.07	0.117	12:05:28 PM	10/22/2011 12:05	0.129
17520	0.016	0.017	0.019	0.027	12:06:28 PM	10/22/2011 12:06	0.029
17580	0.012	0.012	0.014	0.019	12:07:28 PM	10/22/2011 12:07	0.02
17640	0.012	0.013	0.014	0.018	12:08:28 PM	10/22/2011 12:08	0.019
17700	0.006	0.006	0.006	0.007	12:09:28 PM	10/22/2011 12:09	0.007
17760	0.006	0.006	0.007	0.007	12:10:28 PM	10/22/2011 12:10	0.008
17820	0.009	0.01	0.01	0.011	12:11:28 PM	10/22/2011 12:11	0.011
17880	0.031	0.033	0.038	0.059	12:12:28 PM	10/22/2011 12:12	0.066
17940	0.215	0.234	0.293	0.51	12:13:28 PM	10/22/2011 12:13	0.56
18000	0.028	0.03	0.037	0.058	12:14:28 PM	10/22/2011 12:14	0.064
18060	0.013	0.013	0.015	0.02	12:15:28 PM	10/22/2011 12:15	0.021
18120	0.01	0.011	0.012	0.014	12:16:28 PM	10/22/2011 12:16	0.015
18180	0.01	0.01	0.011	0.013	12:17:28 PM	10/22/2011 12:17	0.013
18240	0.015	0.016	0.018	0.025	12:18:28 PM	10/22/2011 12:18	0.027
18300	0.122	0.133	0.166	0.289	12:19:28 PM	10/22/2011 12:19	0.317
18360	0.012	0.013	0.015	0.022	12:20:28 PM	10/22/2011 12:20	0.024
18420	0.021	0.022	0.025	0.036	12:21:28 PM	10/22/2011 12:21	0.038
18480	0.009	0.009	0.01	0.012	12:22:28 PM	10/22/2011 12:22	0.013
18540	0.009	0.009	0.01	0.011	12:23:28 PM	10/22/2011 12:23	0.012
18600	0.01	0.01	0.011	0.012	12:24:28 PM	10/22/2011 12:24	0.012
18660	0.009	0.009	0.01	0.011	12:25:28 PM	10/22/2011 12:25	0.011
18720	0.007	0.007	0.007	0.008	12:26:28 PM	10/22/2011 12:26	0.009
18780	0.027	0.028	0.032	0.047	12:27:28 PM	10/22/2011 12:27	0.05
18840	0.285	0.311	0.39	0.666	12:28:28 PM	10/22/2011 12:28	0.732
18900	0.105	0.115	0.143	0.235	12:29:28 PM	10/22/2011 12:29	0.256
18960	0.03	0.032	0.037	0.053	12:30:28 PM	10/22/2011 12:30	0.056
19020	0.016	0.016	0.018	0.02	12:31:28 PM	10/22/2011 12:31	0.02
19080	0.011	0.011	0.012	0.014	12:32:28 PM	10/22/2011 12:32	0.015
19140	0.014	0.014	0.015	0.018	12:33:28 PM	10/22/2011 12:33	0.019
19200	0.025	0.026	0.029	0.037	12:34:28 PM	10/22/2011 12:34	0.039
19260	0.021	0.022	0.024	0.032	12:35:28 PM	10/22/2011 12:35	0.034
19320	0.022	0.022	0.024	0.03	12:36:28 PM	10/22/2011 12:36	0.033
19380	0.022	0.023	0.025	0.031	12:37:28 PM	10/22/2011 12:37	0.033
19440	0.016	0.017	0.019	0.024	12:38:28 PM	10/22/2011 12:38	0.026
19500	0.023	0.024	0.027	0.04	12:39:28 PM	10/22/2011 12:39	0.043
19560	0.048	0.052	0.062	0.106	12:40:28 PM	10/22/2011 12:40	0.119
19620	0.043	0.045	0.054	0.09	12:41:28 PM	10/22/2011 12:41	0.101

19680	0.006	0.006	0.006	0.007	12:42:28 PM	10/22/2011 12:42	0.007
19740	0.022	0.023	0.027	0.038	12:43:28 PM	10/22/2011 12:43	0.042
19800	0.017	0.017	0.019	0.026	12:44:28 PM	10/22/2011 12:44	0.028
19860	0.012	0.013	0.014	0.018	12:45:28 PM	10/22/2011 12:45	0.019
19920	0.015	0.016	0.017	0.022	12:46:28 PM	10/22/2011 12:46	0.024
19980	0.015	0.016	0.018	0.025	12:47:28 PM	10/22/2011 12:47	0.026
20040	0.025	0.026	0.028	0.042	12:48:28 PM	10/22/2011 12:48	0.051
20100	0.012	0.012	0.013	0.016	12:49:28 PM	10/22/2011 12:49	0.017
20160	0.017	0.018	0.019	0.024	12:50:28 PM	10/22/2011 12:50	0.025
20220	0.017	0.018	0.02	0.026	12:51:28 PM	10/22/2011 12:51	0.027
20280	0.101	0.109	0.136	0.215	12:52:28 PM	10/22/2011 12:52	0.234
20340	0.127	0.139	0.176	0.287	12:53:28 PM	10/22/2011 12:53	0.311
20400	0.047	0.051	0.063	0.097	12:54:28 PM	10/22/2011 12:54	0.106
20460	0.063	0.068	0.085	0.134	12:55:28 PM	10/22/2011 12:55	0.144
20520	0.057	0.061	0.074	0.114	12:56:28 PM	10/22/2011 12:56	0.123
20580	0.037	0.039	0.046	0.071	12:57:28 PM	10/22/2011 12:57	0.078
20640	0.02	0.02	0.023	0.029	12:58:28 PM	10/22/2011 12:58	0.03
20700	0.017	0.017	0.018	0.022	12:59:28 PM	10/22/2011 12:59	0.022
20760	0.015	0.015	0.017	0.021	1:00:28 PM	10/22/2011 13:00	0.022
20820	0.041	0.045	0.055	0.084	1:01:28 PM	10/22/2011 13:01	0.09
20880	0.038	0.041	0.051	0.076	1:02:28 PM	10/22/2011 13:02	0.081
20940	0.014	0.014	0.016	0.02	1:03:28 PM	10/22/2011 13:03	0.022
21000	0.021	0.023	0.025	0.032	1:04:28 PM	10/22/2011 13:04	0.033
21060	0.019	0.02	0.022	0.028	1:05:28 PM	10/22/2011 13:05	0.029
21120	0.032	0.033	0.037	0.047	1:06:28 PM	10/22/2011 13:06	0.048
21180	0.033	0.034	0.038	0.049	1:07:28 PM	10/22/2011 13:07	0.052
21240	0.024	0.025	0.028	0.037	1:08:28 PM	10/22/2011 13:08	0.039
21300	0.021	0.022	0.025	0.034	1:09:28 PM	10/22/2011 13:09	0.035
21360	0.022	0.023	0.026	0.036	1:10:28 PM	10/22/2011 13:10	0.037
21420	0.045	0.047	0.054	0.078	1:11:28 PM	10/22/2011 13:11	0.084
21480	0.091	0.097	0.117	0.191	1:12:28 PM	10/22/2011 13:12	0.213
21540	0.071	0.077	0.093	0.152	1:13:28 PM	10/22/2011 13:13	0.164
21600	0.036	0.039	0.046	0.068	1:14:28 PM	10/22/2011 13:14	0.077
21660	0.039	0.041	0.049	0.077	1:15:28 PM	10/22/2011 13:15	0.084
21720	0.019	0.02	0.023	0.031	1:16:28 PM	10/22/2011 13:16	0.033
21780	0.017	0.018	0.02	0.027	1:17:28 PM	10/22/2011 13:17	0.028
21840	0.015	0.016	0.018	0.026	1:18:28 PM	10/22/2011 13:18	0.026
21900	0.019	0.02	0.023	0.032	1:19:28 PM	10/22/2011 13:19	0.035
21960	0.027	0.029	0.034	0.047	1:20:28 PM	10/22/2011 13:20	0.05
22020	0.013	0.014	0.015	0.018	1:21:28 PM	10/22/2011 13:21	0.02
22080	0.014	0.015	0.016	0.022	1:22:28 PM	10/22/2011 13:22	0.024
22140	0.016	0.016	0.018	0.024	1:23:28 PM	10/22/2011 13:23	0.026
22200	0.013	0.014	0.016	0.021	1:24:28 PM	10/22/2011 13:24	0.023
22260	0.007	0.007	0.008	0.009	1:25:28 PM	10/22/2011 13:25	0.009
22320	0.008	0.008	0.009	0.011	1:26:28 PM	10/22/2011 13:26	0.012
22380	0.007	0.007	0.008	0.009	1:27:28 PM	10/22/2011 13:27	0.009
22440	0.011	0.011	0.012	0.013	1:28:28 PM	10/22/2011 13:28	0.013
22500	0.017	0.017	0.02	0.032	1:29:28 PM	10/22/2011 13:29	0.04
22560	0.023	0.024	0.027	0.041	1:30:28 PM	10/22/2011 13:30	0.053
22620	0.019	0.02	0.022	0.031	1:31:28 PM	10/22/2011 13:31	0.035
22680	0.009	0.009	0.01	0.011	1:32:28 PM	10/22/2011 13:32	0.012
22740	0.006	0.007	0.007	0.008	1:33:28 PM	10/22/2011 13:33	0.008
22800	0.007	0.007	0.008	0.008	1:34:28 PM	10/22/2011 13:34	0.008
22860	0.011	0.011	0.012	0.014	1:35:28 PM	10/22/2011 13:35	0.014
22920	0.011	0.012	0.013	0.014	1:36:28 PM	10/22/2011 13:36	0.014
22980	0.012	0.012	0.013	0.015	1:37:28 PM	10/22/2011 13:37	0.015
23040	0.029	0.029	0.031	0.038	1:38:28 PM	10/22/2011 13:38	0.04
23100	0.014	0.014	0.016	0.022	1:39:28 PM	10/22/2011 13:39	0.023
23160	0.011	0.011	0.013	0.017	1:40:28 PM	10/22/2011 13:40	0.017
23220	0.015	0.015	0.018	0.023	1:41:28 PM	10/22/2011 13:41	0.024
23280	0.017	0.018	0.021	0.028	1:42:28 PM	10/22/2011 13:42	0.029
23340	0.011	0.011	0.013	0.016	1:43:28 PM	10/22/2011 13:43	0.018
23400	0.009	0.009	0.01	0.014	1:44:28 PM	10/22/2011 13:44	0.014
23460	0.013	0.014	0.015	0.018	1:45:28 PM	10/22/2011 13:45	0.019
23520	0.009	0.01	0.01	0.012	1:46:28 PM	10/22/2011 13:46	0.012
23580	0.012	0.012	0.013	0.016	1:47:28 PM	10/22/2011 13:47	0.017
23640	0.01	0.011	0.012	0.013	1:48:28 PM	10/22/2011 13:48	0.014
23700	0.012	0.013	0.014	0.016	1:49:28 PM	10/22/2011 13:49	0.018
23760	0.014	0.015	0.016	0.019	1:50:28 PM	10/22/2011 13:50	0.02
23820	0.01	0.01	0.01	0.012	1:51:28 PM	10/22/2011 13:51	0.013
23880	0.01	0.01	0.011	0.011	1:52:28 PM	10/22/2011 13:52	0.011
23940	0.009	0.01	0.01	0.012	1:53:28 PM	10/22/2011 13:53	0.012
24000	0.013	0.014	0.014	0.017	1:54:28 PM	10/22/2011 13:54	0.018
24060	0.008	0.008	0.009	0.01	1:55:28 PM	10/22/2011 13:55	0.011
24120	0.012	0.012	0.014	0.015	1:56:28 PM	10/22/2011 13:56	0.016
24180	0.046	0.049	0.058	0.083	1:57:28 PM	10/22/2011 13:57	0.09
24240	0.089	0.097	0.12	0.181	1:58:28 PM	10/22/2011 13:58	0.191
24300	0.095	0.104	0.127	0.195	1:59:28 PM	10/22/2011 13:59	0.209
24360	0.145	0.159	0.197	0.294	2:00:28 PM	10/22/2011 14:00	0.307
24420	0.057	0.062	0.076	0.11	2:01:28 PM	10/22/2011 14:01	0.115
24480	0.03	0.032	0.038	0.054	2:02:28 PM	10/22/2011 14:02	0.056
24540	0.038	0.041	0.049	0.07	2:03:28 PM	10/22/2011 14:03	0.073
24600	0.041	0.045	0.056	0.082	2:04:28 PM	10/22/2011 14:04	0.085
24660	0.052	0.055	0.065	0.092	2:05:28 PM	10/22/2011 14:05	0.1
24720	0.018	0.019	0.022	0.031	2:06:28 PM	10/22/2011 14:06	0.034
24780	0.015	0.016	0.018	0.023	2:07:28 PM	10/22/2011 14:07	0.025
24840	0.019	0.02	0.023	0.03	2:08:28 PM	10/22/2011 14:08	0.031
24900	0.015	0.016	0.017	0.021	2:09:28 PM	10/22/2011 14:09	0.021
24960	0.015	0.016	0.017	0.021	2:10:28 PM	10/22/2011 14:10	0.021
25020	0.019	0.02	0.021	0.024	2:11:28 PM	10/22/2011 14:11	0.024
25080	0.025	0.025	0.027	0.031	2:12:28 PM	10/22/2011 14:12	0.031

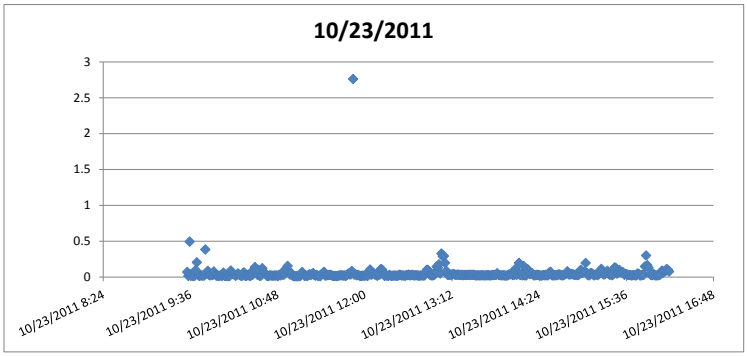
25140	0.037	0.04	0.046	0.064	2:13:28 PM	10/22/2011 14:13	0.068
25200	0.024	0.025	0.028	0.036	2:14:28 PM	10/22/2011 14:14	0.038
25260	0.03	0.032	0.035	0.045	2:15:28 PM	10/22/2011 14:15	0.047
25320	0.018	0.019	0.02	0.025	2:16:28 PM	10/22/2011 14:16	0.026
25380	0.031	0.033	0.039	0.053	2:17:28 PM	10/22/2011 14:17	0.055
25440	0.012	0.012	0.014	0.018	2:18:28 PM	10/22/2011 14:18	0.018
25500	0.01	0.01	0.011	0.012	2:19:28 PM	10/22/2011 14:19	0.012
25560	0.016	0.017	0.019	0.023	2:20:28 PM	10/22/2011 14:20	0.026
25620	0.028	0.029	0.032	0.039	2:21:28 PM	10/22/2011 14:21	0.041
25680	0.016	0.017	0.019	0.026	2:22:28 PM	10/22/2011 14:22	0.028
25740	0.02	0.021	0.024	0.032	2:23:28 PM	10/22/2011 14:23	0.034
25800	0.024	0.025	0.028	0.035	2:24:28 PM	10/22/2011 14:24	0.037
25860	0.016	0.017	0.019	0.023	2:25:28 PM	10/22/2011 14:25	0.023
25920	0.015	0.016	0.018	0.022	2:26:28 PM	10/22/2011 14:26	0.023
25980	0.067	0.072	0.089	0.129	2:27:28 PM	10/22/2011 14:27	0.14
26040	0.011	0.012	0.013	0.015	2:28:28 PM	10/22/2011 14:28	0.016
26100	0.045	0.049	0.059	0.087	2:29:28 PM	10/22/2011 14:29	0.092
26160	0.032	0.034	0.041	0.058	2:30:28 PM	10/22/2011 14:30	0.062
26220	0.016	0.017	0.019	0.023	2:31:28 PM	10/22/2011 14:31	0.025
26280	0.016	0.017	0.019	0.023	2:32:28 PM	10/22/2011 14:32	0.023
26340	0.022	0.023	0.024	0.027	2:33:28 PM	10/22/2011 14:33	0.028
26400	0.013	0.013	0.015	0.019	2:34:28 PM	10/22/2011 14:34	0.02
26460	0.017	0.019	0.022	0.027	2:35:28 PM	10/22/2011 14:35	0.027
26520	0.026	0.028	0.032	0.041	2:36:28 PM	10/22/2011 14:36	0.041
26580	0.026	0.028	0.033	0.041	2:37:28 PM	10/22/2011 14:37	0.041
26640	0.024	0.026	0.031	0.042	2:38:28 PM	10/22/2011 14:38	0.045
26700	0.068	0.073	0.09	0.134	2:39:28 PM	10/22/2011 14:39	0.144
26760	0.085	0.094	0.117	0.179	2:40:28 PM	10/22/2011 14:40	0.193
26820	0.037	0.04	0.048	0.071	2:41:28 PM	10/22/2011 14:41	0.072
26880	0.009	0.009	0.01	0.012	2:42:28 PM	10/22/2011 14:42	0.012
26940	0.008	0.009	0.009	0.011	2:43:28 PM	10/22/2011 14:43	0.011
27000	0.013	0.013	0.015	0.019	2:44:28 PM	10/22/2011 14:44	0.021
27060	0.017	0.018	0.019	0.024	2:45:28 PM	10/22/2011 14:45	0.025
27120	0.014	0.015	0.016	0.018	2:46:28 PM	10/22/2011 14:46	0.018
27180	0.013	0.013	0.014	0.015	2:47:28 PM	10/22/2011 14:47	0.016
27240	0.02	0.02	0.021	0.022	2:48:28 PM	10/22/2011 14:48	0.023
27300	0.011	0.011	0.012	0.013	2:49:28 PM	10/22/2011 14:49	0.013
27360	0.011	0.011	0.012	0.013	2:50:28 PM	10/22/2011 14:50	0.013
27420	0.011	0.011	0.012	0.013	2:51:28 PM	10/22/2011 14:51	0.013
27480	0.013	0.013	0.015	0.019	2:52:28 PM	10/22/2011 14:52	0.02
27540	0.015	0.016	0.017	0.023	2:53:28 PM	10/22/2011 14:53	0.024
27600	0.011	0.011	0.012	0.015	2:54:28 PM	10/22/2011 14:54	0.015
27660	0.012	0.012	0.013	0.016	2:55:28 PM	10/22/2011 14:55	0.017
27720	0.013	0.014	0.015	0.018	2:56:28 PM	10/22/2011 14:56	0.018
27780	0.017	0.018	0.02	0.025	2:57:28 PM	10/22/2011 14:57	0.026
27840	0.01	0.01	0.011	0.012	2:58:28 PM	10/22/2011 14:58	0.013
27900	0.011	0.012	0.012	0.014	2:59:28 PM	10/22/2011 14:59	0.014
27960	0.009	0.009	0.01	0.011	3:00:28 PM	10/22/2011 15:00	0.011
28020	0.011	0.011	0.012	0.014	3:01:28 PM	10/22/2011 15:01	0.014
28080	0.01	0.01	0.011	0.013	3:02:28 PM	10/22/2011 15:02	0.013
28140	0.013	0.013	0.014	0.017	3:03:28 PM	10/22/2011 15:03	0.017
28200	0.016	0.017	0.019	0.023	3:04:28 PM	10/22/2011 15:04	0.024
28260	0.01	0.01	0.011	0.013	3:05:28 PM	10/22/2011 15:05	0.013
28320	0.016	0.017	0.019	0.028	3:06:28 PM	10/22/2011 15:06	0.033
28380	0.013	0.014	0.015	0.02	3:07:28 PM	10/22/2011 15:07	0.021
28440	0.015	0.015	0.017	0.021	3:08:28 PM	10/22/2011 15:08	0.022
28500	0.015	0.016	0.018	0.025	3:09:28 PM	10/22/2011 15:09	0.026
28560	0.01	0.011	0.012	0.016	3:10:28 PM	10/22/2011 15:10	0.017
28620	0.008	0.008	0.009	0.011	3:11:28 PM	10/22/2011 15:11	0.011
28680	0.007	0.007	0.007	0.008	3:12:28 PM	10/22/2011 15:12	0.008
28740	0.008	0.009	0.009	0.012	3:13:28 PM	10/22/2011 15:13	0.012
28800	0.014	0.015	0.016	0.022	3:14:28 PM	10/22/2011 15:14	0.024
28860	0.014	0.015	0.017	0.023	3:15:28 PM	10/22/2011 15:15	0.025
28920	0.011	0.012	0.013	0.016	3:16:28 PM	10/22/2011 15:16	0.018
28980	0.011	0.012	0.013	0.016	3:17:28 PM	10/22/2011 15:17	0.017
29040	0.022	0.023	0.027	0.041	3:18:28 PM	10/22/2011 15:18	0.043
29100	0.014	0.014	0.017	0.022	3:19:28 PM	10/22/2011 15:19	0.024
29160	0.015	0.015	0.016	0.02	3:20:28 PM	10/22/2011 15:20	0.02
29220	0.01	0.01	0.011	0.012	3:21:28 PM	10/22/2011 15:21	0.013
29280	0.009	0.009	0.01	0.012	3:22:28 PM	10/22/2011 15:22	0.012
29340	0.008	0.008	0.008	0.01	3:23:28 PM	10/22/2011 15:23	0.01
29400	0.011	0.011	0.012	0.016	3:24:28 PM	10/22/2011 15:24	0.016
29460	0.01	0.01	0.011	0.012	3:25:28 PM	10/22/2011 15:25	0.013
29520	0.011	0.011	0.012	0.012	3:26:28 PM	10/22/2011 15:26	0.013
29580	0.008	0.008	0.009	0.01	3:27:28 PM	10/22/2011 15:27	0.01
29640	0.008	0.008	0.009	0.01	3:28:28 PM	10/22/2011 15:28	0.01
29700	0.01	0.01	0.011	0.014	3:29:28 PM	10/22/2011 15:29	0.014
29760	0.048	0.051	0.061	0.09	3:30:28 PM	10/22/2011 15:30	0.097
29820	0.022	0.023	0.026	0.032	3:31:28 PM	10/22/2011 15:31	0.034
29880	0.011	0.011	0.013	0.015	3:32:28 PM	10/22/2011 15:32	0.015
29940	0.014	0.014	0.016	0.022	3:33:28 PM	10/22/2011 15:33	0.023
30000	0.014	0.015	0.017	0.02	3:34:28 PM	10/22/2011 15:34	0.02
30060	0.01	0.01	0.011	0.012	3:35:28 PM	10/22/2011 15:35	0.012
30120	0.011	0.012	0.012	0.014	3:36:28 PM	10/22/2011 15:36	0.014
30180	0.01	0.01	0.011	0.011	3:37:28 PM	10/22/2011 15:37	0.011
30240	0.008	0.008	0.008	0.009	3:38:28 PM	10/22/2011 15:38	0.009
30300	0.007	0.007	0.008	0.008	3:39:28 PM	10/22/2011 15:39	0.009
30360	0.007	0.007	0.007	0.007	3:40:28 PM	10/22/2011 15:40	0.007
30420	0.007	0.007	0.008	0.008	3:41:28 PM	10/22/2011 15:41	0.008
30480	0.009	0.009	0.01	0.01	3:42:28 PM	10/22/2011 15:42	0.011
30540	0.007	0.008	0.008	0.008	3:43:28 PM	10/22/2011 15:43	0.009

30600	0.007	0.007	0.008	0.008	3:44:28 PM	10/22/2011 15:44	0.008
30660	0.012	0.012	0.013	0.014	3:45:28 PM	10/22/2011 15:45	0.015
30720	0.014	0.014	0.014	0.016	3:46:28 PM	10/22/2011 15:46	0.016
30780	0.01	0.011	0.011	0.012	3:47:28 PM	10/22/2011 15:47	0.012
30840	0.014	0.015	0.016	0.018	3:48:28 PM	10/22/2011 15:48	0.019
30900	0.012	0.012	0.012	0.013	3:49:28 PM	10/22/2011 15:49	0.013
30960	0.019	0.02	0.023	0.031	3:50:28 PM	10/22/2011 15:50	0.032
31020	0.013	0.013	0.014	0.015	3:51:28 PM	10/22/2011 15:51	0.016
31080	0.017	0.017	0.017	0.018	3:52:28 PM	10/22/2011 15:52	0.018
31140	0.011	0.011	0.012	0.013	3:53:28 PM	10/22/2011 15:53	0.013
31200	0.018	0.018	0.02	0.026	3:54:28 PM	10/22/2011 15:54	0.026
31260	0.015	0.015	0.016	0.02	3:55:28 PM	10/22/2011 15:55	0.021
31320	0.013	0.014	0.015	0.019	3:56:28 PM	10/22/2011 15:56	0.02
31380	0.012	0.012	0.014	0.018	3:57:28 PM	10/22/2011 15:57	0.019
31440	0.014	0.015	0.017	0.023	3:58:28 PM	10/22/2011 15:58	0.024
31500	0.009	0.009	0.009	0.011	3:59:28 PM	10/22/2011 15:59	0.011
31560	0.009	0.009	0.009	0.011	4:00:28 PM	10/22/2011 16:00	0.011
31620	0.011	0.011	0.012	0.012	4:01:28 PM	10/22/2011 16:01	0.013
31680	0.015	0.015	0.016	0.018	4:02:28 PM	10/22/2011 16:02	0.018
31740	0.035	0.038	0.046	0.059	4:03:28 PM	10/22/2011 16:03	0.061
31800	0.013	0.014	0.016	0.019	4:04:28 PM	10/22/2011 16:04	0.019
31860	0.012	0.013	0.014	0.017	4:05:28 PM	10/22/2011 16:05	0.017
31920	0.013	0.013	0.014	0.016	4:06:28 PM	10/22/2011 16:06	0.017
31980	0.011	0.011	0.011	0.012	4:07:28 PM	10/22/2011 16:07	0.012
32040	0.013	0.013	0.014	0.014	4:08:28 PM	10/22/2011 16:08	0.015
32100	0.025	0.026	0.029	0.035	4:09:28 PM	10/22/2011 16:09	0.036
32160	0.02	0.021	0.024	0.029	4:10:28 PM	10/22/2011 16:10	0.029
32220	0.033	0.037	0.044	0.056	4:11:28 PM	10/22/2011 16:11	0.058
32280	0.028	0.031	0.036	0.046	4:12:28 PM	10/22/2011 16:12	0.049
32340	0.051	0.055	0.067	0.097	4:13:28 PM	10/22/2011 16:13	0.102
32400	0.056	0.06	0.071	0.102	4:14:28 PM	10/22/2011 16:14	0.107
32460	0.026	0.028	0.033	0.044	4:15:28 PM	10/22/2011 16:15	0.046
32520	0.03	0.032	0.038	0.05	4:16:28 PM	10/22/2011 16:16	0.053
32580	0.014	0.015	0.016	0.02	4:17:28 PM	10/22/2011 16:17	0.02
32640	0.013	0.014	0.015	0.019	4:18:28 PM	10/22/2011 16:18	0.021
32700	0.009	0.01	0.011	0.012	4:19:28 PM	10/22/2011 16:19	0.013
32760	0.008	0.008	0.008	0.009	4:20:28 PM	10/22/2011 16:20	0.009
32820	0.012	0.012	0.012	0.013	4:21:28 PM	10/22/2011 16:21	0.013
32880	0.012	0.013	0.013	0.014	4:22:28 PM	10/22/2011 16:22	0.014
32940	0.015	0.015	0.017	0.02	4:23:28 PM	10/22/2011 16:23	0.021
33000	0.017	0.018	0.021	0.025	4:24:28 PM	10/22/2011 16:24	0.026
33060	0.018	0.019	0.02	0.026	4:25:28 PM	10/22/2011 16:25	0.026
33120	0.013	0.013	0.014	0.016	4:26:28 PM	10/22/2011 16:26	0.016
33180	0.016	0.017	0.019	0.022	4:27:28 PM	10/22/2011 16:27	0.023
33240	0.011	0.011	0.012	0.013	4:28:28 PM	10/22/2011 16:28	0.013
33300	0.01	0.01	0.01	0.012	4:29:28 PM	10/22/2011 16:29	0.012
33360	0.013	0.013	0.015	0.018	4:30:28 PM	10/22/2011 16:30	0.018
33420	0.015	0.015	0.016	0.018	4:31:28 PM	10/22/2011 16:31	0.019
33480	0.106	0.107	0.112	0.133	4:32:28 PM	10/22/2011 16:32	0.148
33540	0.015	0.015	0.016	0.018	4:33:28 PM	10/22/2011 16:33	0.019
33600	0.012	0.012	0.013	0.014	4:34:28 PM	10/22/2011 16:34	0.014
33660	0.011	0.011	0.012	0.013	4:35:28 PM	10/22/2011 16:35	0.013
33720	0.01	0.01	0.011	0.013	4:36:28 PM	10/22/2011 16:36	0.014
33780	0.012	0.012	0.013	0.014	4:37:28 PM	10/22/2011 16:37	0.014
33840	0.011	0.012	0.013	0.015	4:38:28 PM	10/22/2011 16:38	0.016
33900	0.011	0.011	0.012	0.014	4:39:28 PM	10/22/2011 16:39	0.014
33960	0.013	0.013	0.013	0.014	4:40:28 PM	10/22/2011 16:40	0.014
34020	0.009	0.01	0.01	0.011	4:41:28 PM	10/22/2011 16:41	0.011
34080	0.007	0.008	0.008	0.009	4:42:28 PM	10/22/2011 16:42	0.009
34140	0.008	0.008	0.009	0.009	4:43:28 PM	10/22/2011 16:43	0.009
34200	0.011	0.012	0.013	0.014	4:44:28 PM	10/22/2011 16:44	0.015
34260	0.013	0.014	0.015	0.017	4:45:28 PM	10/22/2011 16:45	0.018
34320	0.011	0.012	0.012	0.014	4:46:28 PM	10/22/2011 16:46	0.015
34380	0.015	0.016	0.017	0.023	4:47:28 PM	10/22/2011 16:47	0.024
34440	0.027	0.028	0.031	0.041	4:48:28 PM	10/22/2011 16:48	0.043
34500	0.015	0.016	0.017	0.019	4:49:28 PM	10/22/2011 16:49	0.02
34560	0.009	0.009	0.01	0.01	4:50:28 PM	10/22/2011 16:50	0.01
34620	0.023	0.023	0.024	0.027	4:51:28 PM	10/22/2011 16:51	0.028
34680	0.009	0.01	0.01	0.011	4:52:28 PM	10/22/2011 16:52	0.011
34740	0.009	0.009	0.009	0.011	4:53:28 PM	10/22/2011 16:53	0.011
34800	0.008	0.009	0.009	0.01	4:54:28 PM	10/22/2011 16:54	0.011
34860	0.01	0.01	0.01	0.011	4:55:28 PM	10/22/2011 16:55	0.011
34920	0.012	0.012	0.012	0.013	4:56:28 PM	10/22/2011 16:56	0.013
34980	0.014	0.014	0.014	0.015	4:57:28 PM	10/22/2011 16:57	0.015
35040	0.014	0.014	0.014	0.014	4:58:28 PM	10/22/2011 16:58	0.014
35100	0.012	0.013	0.013	0.014	4:59:28 PM	10/22/2011 16:59	0.014
35160	0.013	0.013	0.014	0.015	5:00:28 PM	10/22/2011 17:00	0.015
35220	0.012	0.012	0.013	0.014	5:01:28 PM	10/22/2011 17:01	0.014
35280	0.01	0.01	0.011	0.011	5:02:28 PM	10/22/2011 17:02	0.012
35340	0.011	0.011	0.012	0.013	5:03:28 PM	10/22/2011 17:03	0.014
35400	0.008	0.009	0.009	0.01	5:04:28 PM	10/22/2011 17:04	0.01
35460	0.008	0.008	0.009	0.01	5:05:28 PM	10/22/2011 17:05	0.01
35520	0.01	0.01	0.01	0.011	5:06:28 PM	10/22/2011 17:06	0.012
35580	0.012	0.012	0.013	0.014	5:07:28 PM	10/22/2011 17:07	0.014
35640	0.016	0.017	0.019	0.023	5:08:28 PM	10/22/2011 17:08	0.024
35700	0.014	0.015	0.016	0.019	5:09:28 PM	10/22/2011 17:09	0.02
35760	0.012	0.012	0.012	0.014	5:10:28 PM	10/22/2011 17:10	0.014
35820	0.013	0.013	0.014	0.014	5:11:28 PM	10/22/2011 17:11	0.014
35880	0.016	0.016	0.016	0.017	5:12:28 PM	10/22/2011 17:12	0.017
35940	0.009	0.009	0.01	0.01	5:13:28 PM	10/22/2011 17:13	0.01
36000	0.01	0.01	0.01	0.012	5:14:28 PM	10/22/2011 17:14	0.013

36060	0.01	0.011	0.011	0.013	5:15:28 PM	10/22/2011 17:15	0.013
36120	0.009	0.009	0.009	0.01	5:16:28 PM	10/22/2011 17:16	0.011
36180	0.009	0.009	0.01	0.01	5:17:28 PM	10/22/2011 17:17	0.01
36240	0.011	0.011	0.012	0.014	5:18:28 PM	10/22/2011 17:18	0.015
36300	0.01	0.01	0.011	0.013	5:19:28 PM	10/22/2011 17:19	0.013
36360	0.011	0.011	0.012	0.014	5:20:28 PM	10/22/2011 17:20	0.014
36420	0.009	0.009	0.01	0.011	5:21:28 PM	10/22/2011 17:21	0.011
36480	0.011	0.011	0.012	0.013	5:22:28 PM	10/22/2011 17:22	0.014
36540	0.02	0.021	0.022	0.026	5:23:28 PM	10/22/2011 17:23	0.028
36600	0.012	0.012	0.013	0.014	5:24:28 PM	10/22/2011 17:24	0.014
36660	0.017	0.018	0.019	0.023	5:25:28 PM	10/22/2011 17:25	0.023
36720	0.009	0.009	0.009	0.01	5:26:28 PM	10/22/2011 17:26	0.01
36780	0.011	0.011	0.012	0.014	5:27:28 PM	10/22/2011 17:27	0.016
36840	0.017	0.018	0.02	0.024	5:28:28 PM	10/22/2011 17:28	0.025
36900	0.01	0.011	0.011	0.012	5:29:28 PM	10/22/2011 17:29	0.012
36960	0.011	0.011	0.012	0.015	5:30:28 PM	10/22/2011 17:30	0.016
37020	0.013	0.014	0.015	0.017	5:31:28 PM	10/22/2011 17:31	0.017
37080	0.011	0.012	0.012	0.014	5:32:28 PM	10/22/2011 17:32	0.015
37140	0.014	0.015	0.016	0.017	5:33:28 PM	10/22/2011 17:33	0.019
37200	0.011	0.011	0.011	0.012	5:34:28 PM	10/22/2011 17:34	0.013
37260	0.01	0.01	0.01	0.011	5:35:28 PM	10/22/2011 17:35	0.012
37320	0.011	0.011	0.012	0.013	5:36:28 PM	10/22/2011 17:36	0.013
37380	0.01	0.01	0.011	0.011	5:37:28 PM	10/22/2011 17:37	0.011
37440	0.015	0.016	0.018	0.02	5:38:28 PM	10/22/2011 17:38	0.02
37500	0.018	0.019	0.022	0.028	5:39:28 PM	10/22/2011 17:39	0.03
37560	0.009	0.009	0.01	0.01	5:40:28 PM	10/22/2011 17:40	0.01
37620	0.011	0.011	0.012	0.015	5:41:28 PM	10/22/2011 17:41	0.015
37680	0.009	0.009	0.009	0.01	5:42:28 PM	10/22/2011 17:42	0.01
37740	0.011	0.011	0.012	0.013	5:43:28 PM	10/22/2011 17:43	0.013
37800	0.01	0.01	0.011	0.012	5:44:28 PM	10/22/2011 17:44	0.013
37860	0.011	0.012	0.012	0.015	5:45:28 PM	10/22/2011 17:45	0.015
37920	0.009	0.009	0.01	0.011	5:46:28 PM	10/22/2011 17:46	0.011
37980	0.039	0.044	0.052	0.058	5:47:28 PM	10/22/2011 17:47	0.058
38040	0.059	0.068	0.08	0.094	5:48:28 PM	10/22/2011 17:48	0.095
38100	0.019	0.02	0.022	0.025	5:49:28 PM	10/22/2011 17:49	0.025
38160	0.014	0.015	0.016	0.019	5:50:28 PM	10/22/2011 17:50	0.021
38220	0.017	0.017	0.019	0.022	5:51:28 PM	10/22/2011 17:51	0.023
38280	0.022	0.022	0.024	0.032	5:52:28 PM	10/22/2011 17:52	0.036
38340	0.012	0.012	0.013	0.013	5:53:28 PM	10/22/2011 17:53	0.013
38400	0.015	0.015	0.016	0.018	5:54:28 PM	10/22/2011 17:54	0.018
38460	0.014	0.014	0.015	0.017	5:55:28 PM	10/22/2011 17:55	0.018
38520	0.016	0.017	0.019	0.024	5:56:28 PM	10/22/2011 17:56	0.026
38580	0.012	0.012	0.013	0.014	5:57:28 PM	10/22/2011 17:57	0.014
38640	0.013	0.013	0.014	0.016	5:58:28 PM	10/22/2011 17:58	0.017
38700	0.011	0.011	0.012	0.013	5:59:28 PM	10/22/2011 17:59	0.013
38760	0.014	0.014	0.015	0.019	6:00:28 PM	10/22/2011 18:00	0.02
38820	0.012	0.012	0.013	0.015	6:01:28 PM	10/22/2011 18:01	0.017
38880	0.012	0.013	0.013	0.013	6:02:28 PM	10/22/2011 18:02	0.014
38940	0.012	0.012	0.012	0.013	6:03:28 PM	10/22/2011 18:03	0.013
39000	0.017	0.017	0.018	0.02	6:04:28 PM	10/22/2011 18:04	0.021
39060	0.012	0.012	0.012	0.014	6:05:28 PM	10/22/2011 18:05	0.015
39120	0.01	0.01	0.01	0.011	6:06:28 PM	10/22/2011 18:06	0.011
39180	0.013	0.013	0.014	0.015	6:07:28 PM	10/22/2011 18:07	0.015
39240	0.016	0.016	0.017	0.017	6:08:28 PM	10/22/2011 18:08	0.018
39300	0.048	0.049	0.053	0.068	6:09:28 PM	10/22/2011 18:09	0.072
39360	0.016	0.016	0.017	0.018	6:10:28 PM	10/22/2011 18:10	0.018
39420	0.029	0.029	0.03	0.033	6:11:28 PM	10/22/2011 18:11	0.034
39480	0.034	0.035	0.038	0.046	6:12:28 PM	10/22/2011 18:12	0.047
39540	0.017	0.018	0.018	0.019	6:13:28 PM	10/22/2011 18:13	0.02
39600	0.014	0.014	0.014	0.015	6:14:28 PM	10/22/2011 18:14	0.015
39660	0.013	0.013	0.014	0.015	6:15:28 PM	10/22/2011 18:15	0.016
39720	0.018	0.018	0.02	0.026	6:16:28 PM	10/22/2011 18:16	0.028
39780	0.014	0.015	0.015	0.016	6:17:28 PM	10/22/2011 18:17	0.016
39840	0.052	0.057	0.066	0.075	6:18:28 PM	10/22/2011 18:18	0.075
39900	0.036	0.039	0.045	0.051	6:19:28 PM	10/22/2011 18:19	0.051
39960	0.056	0.062	0.071	0.08	6:20:28 PM	10/22/2011 18:20	0.081
40020	0.024	0.024	0.026	0.029	6:21:28 PM	10/22/2011 18:21	0.029
40080	0.017	0.017	0.018	0.02	6:22:28 PM	10/22/2011 18:22	0.02
40140	0.016	0.016	0.017	0.018	6:23:28 PM	10/22/2011 18:23	0.018
40200	0.015	0.015	0.015	0.017	6:24:28 PM	10/22/2011 18:24	0.017
40260	0.031	0.032	0.035	0.045	6:25:28 PM	10/22/2011 18:25	0.047
40320	0.023	0.024	0.025	0.032	6:26:28 PM	10/22/2011 18:26	0.034
40380	0.063	0.071	0.081	0.093	6:27:28 PM	10/22/2011 18:27	0.094
40440	0.04	0.044	0.05	0.057	6:28:28 PM	10/22/2011 18:28	0.058
40500	0.023	0.025	0.027	0.03	6:29:28 PM	10/22/2011 18:29	0.031
40560	0.019	0.019	0.02	0.021	6:30:28 PM	10/22/2011 18:30	0.022
40620	0.016	0.016	0.017	0.018	6:31:28 PM	10/22/2011 18:31	0.018
40680	0.013	0.013	0.014	0.015	6:32:28 PM	10/22/2011 18:32	0.015
40740	0.016	0.016	0.017	0.019	6:33:28 PM	10/22/2011 18:33	0.019
40800	0.013	0.014	0.014	0.015	6:34:28 PM	10/22/2011 18:34	0.015
40860	0.012	0.012	0.012	0.013	6:35:28 PM	10/22/2011 18:35	0.013
40920	0.014	0.014	0.014	0.015	6:36:28 PM	10/22/2011 18:36	0.015
40980	0.015	0.015	0.017	0.019	6:37:28 PM	10/22/2011 18:37	0.02
41040	0.015	0.015	0.016	0.017	6:38:28 PM	10/22/2011 18:38	0.017
41100	0.016	0.017	0.017	0.019	6:39:28 PM	10/22/2011 18:39	0.019
41160	0.019	0.02	0.02	0.023	6:40:28 PM	10/22/2011 18:40	0.024
41220	0.013	0.013	0.013	0.014	6:41:28 PM	10/22/2011 18:41	0.014
41280	0.015	0.015	0.015	0.016	6:42:28 PM	10/22/2011 18:42	0.017
41340	0.016	0.016	0.016	0.017	6:43:28 PM	10/22/2011 18:43	0.017
41400	0.014	0.014	0.015	0.015	6:44:28 PM	10/22/2011 18:44	0.015
41460	0.016	0.016	0.016	0.016	6:45:28 PM	10/22/2011 18:45	0.016

41520	0.021	0.021	0.022	0.023	6:46:28 PM	10/22/2011 18:46	0.023
41580	0.02	0.02	0.021	0.022	6:47:28 PM	10/22/2011 18:47	0.022
41640	0.018	0.018	0.019	0.02	6:48:28 PM	10/22/2011 18:48	0.02
41700	0.015	0.015	0.016	0.016	6:49:28 PM	10/22/2011 18:49	0.016
41760	0.015	0.015	0.016	0.017	6:50:28 PM	10/22/2011 18:50	0.018
41820	0.015	0.015	0.016	0.017	6:51:28 PM	10/22/2011 18:51	0.017
41880	0.014	0.014	0.014	0.014	6:52:28 PM	10/22/2011 18:52	0.014
41940	0.012	0.012	0.012	0.013	6:53:28 PM	10/22/2011 18:53	0.013

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_005
Test Start Time	9:32:19 AM
Test Start Date	10/23/2011
Test Length [D:H:M]	0:06:39
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.033
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	1.33
PM1 TWA [mg/m3]	0.028
PM2.5 Average [mg/m3]	0.035
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	1.46
PM2.5 TWA [mg/m3]	0.029
PM4 Average [mg/m3]	0.039
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	1.81
PM4 TWA [mg/m3]	0.032
PM10 Average [mg/m3]	0.049
PM10 Minimum [mg/m3]	0.01
PM10 Maximum [mg/m3]	2.64
PM10 TWA [mg/m3]	0.041
TOTAL Average [mg/m3]	0.052
TOTAL Minimum [mg/m3]	0.01
TOTAL Maximum [mg/m3]	2.76
TOTAL TWA [mg/m3]	0.043
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	399



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:32:19 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.028	0.029	0.031	0.051	9:33:19 AM	10/23/2011 9:33	0.069		
120	0.013	0.013	0.014	0.015	9:34:19 AM	10/23/2011 9:34	0.016		
180	0.215	0.232	0.28	0.449	9:35:19 AM	10/23/2011 9:35	0.494		
240	0.022	0.023	0.025	0.034	9:36:19 AM	10/23/2011 9:36	0.036		
300	0.014	0.014	0.014	0.015	9:37:19 AM	10/23/2011 9:37	0.015		
360	0.015	0.015	0.016	0.018	9:38:19 AM	10/23/2011 9:38	0.019		
420	0.013	0.013	0.014	0.014	9:39:19 AM	10/23/2011 9:39	0.014		
480	0.049	0.052	0.059	0.089	9:40:19 AM	10/23/2011 9:40	0.097		
540	0.085	0.091	0.109	0.18	9:41:19 AM	10/23/2011 9:41	0.205		
600	0.02	0.02	0.021	0.028	9:42:19 AM	10/23/2011 9:42	0.034		
660	0.015	0.015	0.015	0.015	9:43:19 AM	10/23/2011 9:43	0.016		
720	0.018	0.019	0.019	0.021	9:44:19 AM	10/23/2011 9:44	0.021		
780	0.018	0.019	0.019	0.021	9:45:19 AM	10/23/2011 9:45	0.021		
840	0.017	0.017	0.018	0.018	9:46:19 AM	10/23/2011 9:46	0.018		
900	0.018	0.018	0.018	0.019	9:47:19 AM	10/23/2011 9:47	0.019		
960	0.194	0.213	0.261	0.367	9:48:19 AM	10/23/2011 9:48	0.383		
1020	0.033	0.034	0.038	0.046	9:49:19 AM	10/23/2011 9:49	0.048		
1080	0.052	0.057	0.065	0.084	9:50:19 AM	10/23/2011 9:50	0.086		
1140	0.023	0.024	0.025	0.029	9:51:19 AM	10/23/2011 9:51	0.03		
1200	0.018	0.018	0.019	0.021	9:52:19 AM	10/23/2011 9:52	0.022		
1260	0.027	0.028	0.032	0.038	9:53:19 AM	10/23/2011 9:53	0.038		
1320	0.019	0.02	0.021	0.025	9:54:19 AM	10/23/2011 9:54	0.026		
1380	0.041	0.043	0.05	0.073	9:55:19 AM	10/23/2011 9:55	0.077		
1440	0.024	0.024	0.027	0.035	9:56:19 AM	10/23/2011 9:56	0.037		
1500	0.016	0.017	0.017	0.019	9:57:19 AM	10/23/2011 9:57	0.019		
1560	0.015	0.015	0.016	0.017	9:58:19 AM	10/23/2011 9:58	0.017		
1620	0.014	0.014	0.014	0.015	9:59:19 AM	10/23/2011 9:59	0.015		
1680	0.016	0.017	0.017	0.019	10:00:19 AM	10/23/2011 10:00	0.02		
1740	0.015	0.016	0.016	0.018	10:01:19 AM	10/23/2011 10:01	0.018		
1800	0.016	0.016	0.017	0.018	10:02:19 AM	10/23/2011 10:02	0.018		
1860	0.036	0.037	0.04	0.052	10:03:19 AM	10/23/2011 10:03	0.061		
1920	0.013	0.014	0.014	0.015	10:04:19 AM	10/23/2011 10:04	0.015		
1980	0.013	0.013	0.013	0.014	10:05:19 AM	10/23/2011 10:05	0.014		
2040	0.013	0.013	0.013	0.013	10:06:19 AM	10/23/2011 10:06	0.014		
2100	0.013	0.013	0.013	0.014	10:07:19 AM	10/23/2011 10:07	0.014		
2160	0.012	0.012	0.012	0.012	10:08:19 AM	10/23/2011 10:08	0.012		
2220	0.054	0.058	0.068	0.089	10:09:19 AM	10/23/2011 10:09	0.091		
2280	0.027	0.029	0.032	0.042	10:10:19 AM	10/23/2011 10:10	0.043		
2340	0.028	0.029	0.032	0.044	10:11:19 AM	10/23/2011 10:11	0.046		
2400	0.021	0.022	0.024	0.031	10:12:19 AM	10/23/2011 10:12	0.032		
2460	0.014	0.014	0.015	0.017	10:13:19 AM	10/23/2011 10:13	0.018		
2520	0.02	0.02	0.022	0.028	10:14:19 AM	10/23/2011 10:14	0.031		
2580	0.029	0.031	0.035	0.048	10:15:19 AM	10/23/2011 10:15	0.05		
2640	0.019	0.02	0.022	0.028	10:16:19 AM	10/23/2011 10:16	0.031		
2700	0.016	0.016	0.018	0.021	10:17:19 AM	10/23/2011 10:17	0.021		
2760	0.012	0.012	0.012	0.013	10:18:19 AM	10/23/2011 10:18	0.013		
2820	0.03	0.031	0.036	0.048	10:19:19 AM	10/23/2011 10:19	0.051		
2880	0.034	0.036	0.042	0.06	10:20:19 AM	10/23/2011 10:20	0.063		
2940	0.014	0.014	0.014	0.015	10:21:19 AM	10/23/2011 10:21	0.015		
3000	0.013	0.013	0.014	0.015	10:22:19 AM	10/23/2011 10:22	0.015		
3060	0.02	0.02	0.022	0.029	10:23:19 AM	10/23/2011 10:23	0.031		
3120	0.016	0.016	0.017	0.021	10:24:19 AM	10/23/2011 10:24	0.021		
3180	0.013	0.013	0.014	0.014	10:25:19 AM	10/23/2011 10:25	0.014		
3240	0.036	0.039	0.045	0.066	10:26:19 AM	10/23/2011 10:26	0.069		

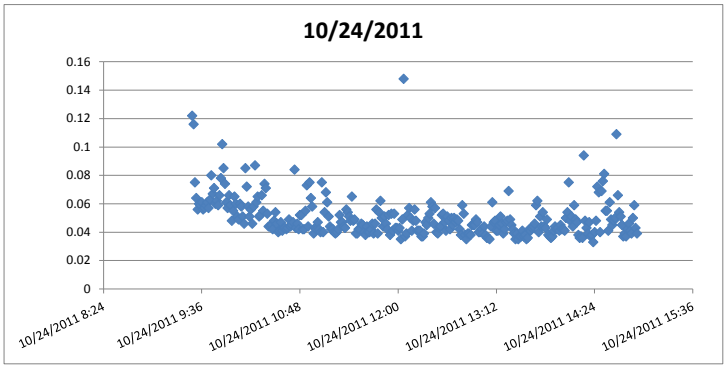
3300	0.02	0.021	0.023	0.03	10:27:19 AM	10/23/2011 10:27	0.031
3360	0.039	0.042	0.048	0.07	10:28:19 AM	10/23/2011 10:28	0.074
3420	0.063	0.067	0.08	0.129	10:29:19 AM	10/23/2011 10:29	0.139
3480	0.045	0.047	0.055	0.083	10:30:19 AM	10/23/2011 10:30	0.089
3540	0.02	0.021	0.023	0.03	10:31:19 AM	10/23/2011 10:31	0.032
3600	0.049	0.054	0.065	0.094	10:32:19 AM	10/23/2011 10:32	0.1
3660	0.013	0.013	0.014	0.015	10:33:19 AM	10/23/2011 10:33	0.015
3720	0.015	0.015	0.016	0.02	10:34:19 AM	10/23/2011 10:34	0.02
3780	0.061	0.066	0.08	0.115	10:35:19 AM	10/23/2011 10:35	0.122
3840	0.038	0.04	0.048	0.067	10:36:19 AM	10/23/2011 10:36	0.071
3900	0.029	0.03	0.035	0.047	10:37:19 AM	10/23/2011 10:37	0.048
3960	0.028	0.029	0.032	0.044	10:38:19 AM	10/23/2011 10:38	0.045
4020	0.012	0.013	0.013	0.016	10:39:19 AM	10/23/2011 10:39	0.016
4080	0.011	0.011	0.012	0.012	10:40:19 AM	10/23/2011 10:40	0.013
4140	0.015	0.015	0.016	0.02	10:41:19 AM	10/23/2011 10:41	0.021
4200	0.015	0.016	0.017	0.02	10:42:19 AM	10/23/2011 10:42	0.021
4260	0.014	0.014	0.015	0.018	10:43:19 AM	10/23/2011 10:43	0.019
4320	0.014	0.014	0.015	0.018	10:44:19 AM	10/23/2011 10:44	0.018
4380	0.016	0.017	0.018	0.022	10:45:19 AM	10/23/2011 10:45	0.022
4440	0.014	0.015	0.015	0.019	10:46:19 AM	10/23/2011 10:46	0.02
4500	0.017	0.017	0.019	0.023	10:47:19 AM	10/23/2011 10:47	0.023
4560	0.012	0.012	0.013	0.015	10:48:19 AM	10/23/2011 10:48	0.015
4620	0.02	0.021	0.024	0.029	10:49:19 AM	10/23/2011 10:49	0.032
4680	0.015	0.016	0.017	0.021	10:50:19 AM	10/23/2011 10:50	0.021
4740	0.024	0.026	0.029	0.042	10:51:19 AM	10/23/2011 10:51	0.044
4800	0.021	0.022	0.023	0.029	10:52:19 AM	10/23/2011 10:52	0.032
4860	0.021	0.022	0.024	0.031	10:53:19 AM	10/23/2011 10:53	0.033
4920	0.058	0.062	0.071	0.106	10:54:19 AM	10/23/2011 10:54	0.109
4980	0.052	0.056	0.066	0.097	10:55:19 AM	10/23/2011 10:55	0.104
5040	0.073	0.08	0.096	0.143	10:56:19 AM	10/23/2011 10:56	0.154
5100	0.032	0.034	0.04	0.057	10:57:19 AM	10/23/2011 10:57	0.059
5160	0.02	0.021	0.024	0.032	10:58:19 AM	10/23/2011 10:58	0.033
5220	0.029	0.031	0.036	0.051	10:59:19 AM	10/23/2011 10:59	0.054
5280	0.014	0.015	0.016	0.019	11:00:19 AM	10/23/2011 11:00	0.02
5340	0.01	0.01	0.01	0.01	11:01:19 AM	10/23/2011 11:01	0.01
5400	0.01	0.01	0.01	0.011	11:02:19 AM	10/23/2011 11:02	0.011
5460	0.01	0.01	0.01	0.01	11:03:19 AM	10/23/2011 11:03	0.01
5520	0.01	0.01	0.01	0.011	11:04:19 AM	10/23/2011 11:04	0.011
5580	0.01	0.01	0.011	0.011	11:05:19 AM	10/23/2011 11:05	0.012
5640	0.011	0.011	0.011	0.011	11:06:19 AM	10/23/2011 11:06	0.011
5700	0.02	0.021	0.024	0.032	11:07:19 AM	10/23/2011 11:07	0.033
5760	0.038	0.041	0.047	0.065	11:08:19 AM	10/23/2011 11:08	0.07
5820	0.023	0.024	0.027	0.036	11:09:19 AM	10/23/2011 11:09	0.041
5880	0.012	0.013	0.013	0.016	11:10:19 AM	10/23/2011 11:10	0.016
5940	0.014	0.014	0.015	0.018	11:11:19 AM	10/23/2011 11:11	0.019
6000	0.013	0.013	0.014	0.015	11:12:19 AM	10/23/2011 11:12	0.015
6060	0.017	0.018	0.019	0.022	11:13:19 AM	10/23/2011 11:13	0.022
6120	0.023	0.024	0.026	0.036	11:14:19 AM	10/23/2011 11:14	0.039
6180	0.018	0.018	0.02	0.025	11:15:19 AM	10/23/2011 11:15	0.027
6240	0.023	0.024	0.027	0.037	11:16:19 AM	10/23/2011 11:16	0.04
6300	0.028	0.029	0.033	0.048	11:17:19 AM	10/23/2011 11:17	0.053
6360	0.015	0.016	0.017	0.021	11:18:19 AM	10/23/2011 11:18	0.024
6420	0.015	0.015	0.016	0.019	11:19:19 AM	10/23/2011 11:19	0.02
6480	0.018	0.018	0.02	0.026	11:20:19 AM	10/23/2011 11:20	0.028
6540	0.013	0.014	0.014	0.015	11:21:19 AM	10/23/2011 11:21	0.015
6600	0.014	0.015	0.015	0.017	11:22:19 AM	10/23/2011 11:22	0.017
6660	0.013	0.013	0.013	0.014	11:23:19 AM	10/23/2011 11:23	0.014
6720	0.024	0.025	0.028	0.039	11:24:19 AM	10/23/2011 11:24	0.041
6780	0.027	0.029	0.033	0.046	11:25:19 AM	10/23/2011 11:25	0.049
6840	0.036	0.038	0.044	0.066	11:26:19 AM	10/23/2011 11:26	0.071
6900	0.015	0.015	0.015	0.018	11:27:19 AM	10/23/2011 11:27	0.019
6960	0.015	0.015	0.016	0.02	11:28:19 AM	10/23/2011 11:28	0.021
7020	0.018	0.018	0.02	0.025	11:29:19 AM	10/23/2011 11:29	0.026
7080	0.02	0.02	0.022	0.027	11:30:19 AM	10/23/2011 11:30	0.028
7140	0.022	0.022	0.024	0.028	11:31:19 AM	10/23/2011 11:31	0.03
7200	0.019	0.019	0.021	0.027	11:32:19 AM	10/23/2011 11:32	0.027
7260	0.013	0.014	0.014	0.015	11:33:19 AM	10/23/2011 11:33	0.015
7320	0.013	0.013	0.013	0.014	11:34:19 AM	10/23/2011 11:34	0.015
7380	0.013	0.013	0.013	0.015	11:35:19 AM	10/23/2011 11:35	0.016
7440	0.012	0.013	0.013	0.014	11:36:19 AM	10/23/2011 11:36	0.014
7500	0.012	0.013	0.013	0.014	11:37:19 AM	10/23/2011 11:37	0.014
7560	0.015	0.015	0.016	0.018	11:38:19 AM	10/23/2011 11:38	0.02
7620	0.016	0.017	0.018	0.021	11:39:19 AM	10/23/2011 11:39	0.022
7680	0.016	0.017	0.018	0.022	11:40:19 AM	10/23/2011 11:40	0.024
7740	0.017	0.017	0.018	0.022	11:41:19 AM	10/23/2011 11:41	0.023
7800	0.016	0.016	0.017	0.019	11:42:19 AM	10/23/2011 11:42	0.02
7860	0.017	0.018	0.019	0.022	11:43:19 AM	10/23/2011 11:43	0.023
7920	0.014	0.014	0.015	0.016	11:44:19 AM	10/23/2011 11:44	0.016
7980	0.02	0.021	0.023	0.028	11:45:19 AM	10/23/2011 11:45	0.028
8040	0.027	0.028	0.032	0.043	11:46:19 AM	10/23/2011 11:46	0.047
8100	0.025	0.026	0.029	0.036	11:47:19 AM	10/23/2011 11:47	0.039
8160	0.022	0.023	0.026	0.034	11:48:19 AM	10/23/2011 11:48	0.035
8220	0.042	0.045	0.052	0.077	11:49:19 AM	10/23/2011 11:49	0.083
8280	1.33	1.46	1.81	2.64	11:50:19 AM	10/23/2011 11:50	2.76
8340	0.022	0.023	0.025	0.033	11:51:19 AM	10/23/2011 11:51	0.034
8400	0.024	0.024	0.027	0.037	11:52:19 AM	10/23/2011 11:52	0.039
8460	0.017	0.017	0.018	0.022	11:53:19 AM	10/23/2011 11:53	0.024
8520	0.02	0.021	0.022	0.027	11:54:19 AM	10/23/2011 11:54	0.028
8580	0.016	0.016	0.017	0.019	11:55:19 AM	10/23/2011 11:55	0.02
8640	0.013	0.014	0.014	0.014	11:56:19 AM	10/23/2011 11:56	0.015
8700	0.014	0.014	0.014	0.015	11:57:19 AM	10/23/2011 11:57	0.015

8760	0.016	0.016	0.017	0.018	11:58:19 AM	10/23/2011 11:58	0.019
8820	0.015	0.015	0.016	0.017	11:59:19 AM	10/23/2011 11:59	0.018
8880	0.019	0.019	0.02	0.025	12:00:19 PM	10/23/2011 12:00	0.026
8940	0.017	0.018	0.018	0.021	12:01:19 PM	10/23/2011 12:01	0.022
9000	0.015	0.015	0.015	0.016	12:02:19 PM	10/23/2011 12:02	0.016
9060	0.033	0.034	0.039	0.056	12:03:19 PM	10/23/2011 12:03	0.059
9120	0.052	0.055	0.066	0.097	12:04:19 PM	10/23/2011 12:04	0.105
9180	0.021	0.022	0.024	0.031	12:05:19 PM	10/23/2011 12:05	0.032
9240	0.032	0.033	0.037	0.049	12:06:19 PM	10/23/2011 12:06	0.05
9300	0.038	0.039	0.041	0.051	12:07:19 PM	10/23/2011 12:07	0.053
9360	0.025	0.026	0.027	0.031	12:08:19 PM	10/23/2011 12:08	0.033
9420	0.021	0.022	0.023	0.029	12:09:19 PM	10/23/2011 12:09	0.031
9480	0.016	0.016	0.017	0.018	12:10:19 PM	10/23/2011 12:10	0.018
9540	0.025	0.025	0.027	0.032	12:11:19 PM	10/23/2011 12:11	0.033
9600	0.022	0.023	0.024	0.031	12:12:19 PM	10/23/2011 12:12	0.034
9660	0.063	0.066	0.076	0.104	12:13:19 PM	10/23/2011 12:13	0.111
9720	0.056	0.059	0.068	0.095	12:14:19 PM	10/23/2011 12:14	0.101
9780	0.033	0.034	0.036	0.042	12:15:19 PM	10/23/2011 12:15	0.043
9840	0.014	0.015	0.015	0.015	12:16:19 PM	10/23/2011 12:16	0.016
9900	0.019	0.019	0.02	0.024	12:17:19 PM	10/23/2011 12:17	0.024
9960	0.017	0.017	0.018	0.019	12:18:19 PM	10/23/2011 12:18	0.019
10020	0.015	0.015	0.015	0.016	12:19:19 PM	10/23/2011 12:19	0.016
10080	0.024	0.025	0.026	0.028	12:20:19 PM	10/23/2011 12:20	0.028
10140	0.018	0.018	0.019	0.02	12:21:19 PM	10/23/2011 12:21	0.02
10200	0.016	0.016	0.016	0.016	12:22:19 PM	10/23/2011 12:22	0.016
10260	0.017	0.018	0.018	0.02	12:23:19 PM	10/23/2011 12:23	0.02
10320	0.017	0.017	0.018	0.02	12:24:19 PM	10/23/2011 12:24	0.02
10380	0.016	0.016	0.017	0.018	12:25:19 PM	10/23/2011 12:25	0.019
10440	0.016	0.016	0.016	0.017	12:26:19 PM	10/23/2011 12:26	0.017
10500	0.016	0.016	0.017	0.017	12:27:19 PM	10/23/2011 12:27	0.017
10560	0.024	0.025	0.026	0.03	12:28:19 PM	10/23/2011 12:28	0.031
10620	0.025	0.025	0.026	0.029	12:29:19 PM	10/23/2011 12:29	0.029
10680	0.018	0.018	0.019	0.021	12:30:19 PM	10/23/2011 12:30	0.021
10740	0.019	0.019	0.02	0.021	12:31:19 PM	10/23/2011 12:31	0.021
10800	0.02	0.02	0.02	0.02	12:32:19 PM	10/23/2011 12:32	0.02
10860	0.017	0.018	0.018	0.018	12:33:19 PM	10/23/2011 12:33	0.018
10920	0.021	0.021	0.022	0.026	12:34:19 PM	10/23/2011 12:34	0.027
10980	0.024	0.024	0.025	0.026	12:35:19 PM	10/23/2011 12:35	0.026
11040	0.026	0.027	0.028	0.033	12:36:19 PM	10/23/2011 12:36	0.034
11100	0.022	0.023	0.023	0.023	12:37:19 PM	10/23/2011 12:37	0.023
11160	0.024	0.024	0.025	0.027	12:38:19 PM	10/23/2011 12:38	0.027
11220	0.026	0.026	0.027	0.03	12:39:19 PM	10/23/2011 12:39	0.031
11280	0.022	0.022	0.023	0.023	12:40:19 PM	10/23/2011 12:40	0.023
11340	0.022	0.022	0.022	0.023	12:41:19 PM	10/23/2011 12:41	0.023
11400	0.024	0.024	0.024	0.025	12:42:19 PM	10/23/2011 12:42	0.025
11460	0.021	0.021	0.021	0.022	12:43:19 PM	10/23/2011 12:43	0.022
11520	0.019	0.019	0.02	0.02	12:44:19 PM	10/23/2011 12:44	0.02
11580	0.018	0.018	0.018	0.018	12:45:19 PM	10/23/2011 12:45	0.018
11640	0.021	0.021	0.021	0.022	12:46:19 PM	10/23/2011 12:46	0.022
11700	0.02	0.02	0.021	0.021	12:47:19 PM	10/23/2011 12:47	0.021
11760	0.019	0.019	0.02	0.02	12:48:19 PM	10/23/2011 12:48	0.02
11820	0.021	0.021	0.021	0.022	12:49:19 PM	10/23/2011 12:49	0.023
11880	0.034	0.036	0.04	0.057	12:50:19 PM	10/23/2011 12:50	0.061
11940	0.052	0.055	0.064	0.097	12:51:19 PM	10/23/2011 12:51	0.102
12000	0.051	0.054	0.062	0.091	12:52:19 PM	10/23/2011 12:52	0.095
12060	0.028	0.029	0.031	0.04	12:53:19 PM	10/23/2011 12:53	0.043
12120	0.023	0.023	0.023	0.024	12:54:19 PM	10/23/2011 12:54	0.024
12180	0.02	0.021	0.021	0.021	12:55:19 PM	10/23/2011 12:55	0.022
12240	0.022	0.022	0.023	0.023	12:56:19 PM	10/23/2011 12:56	0.023
12300	0.025	0.026	0.027	0.029	12:57:19 PM	10/23/2011 12:57	0.029
12360	0.042	0.044	0.048	0.062	12:58:19 PM	10/23/2011 12:58	0.067
12420	0.078	0.083	0.097	0.137	12:59:19 PM	10/23/2011 12:59	0.145
12480	0.073	0.077	0.089	0.122	1:00:19 PM	10/23/2011 13:00	0.128
12540	0.091	0.098	0.116	0.166	1:01:19 PM	10/23/2011 13:01	0.176
12600	0.034	0.035	0.038	0.048	1:02:19 PM	10/23/2011 13:02	0.049
12660	0.17	0.184	0.219	0.312	1:03:19 PM	10/23/2011 13:03	0.327
12720	0.151	0.164	0.194	0.271	1:04:19 PM	10/23/2011 13:04	0.289
12780	0.159	0.171	0.2	0.28	1:05:19 PM	10/23/2011 13:05	0.293
12840	0.106	0.113	0.132	0.188	1:06:19 PM	10/23/2011 13:06	0.198
12900	0.054	0.057	0.063	0.081	1:07:19 PM	10/23/2011 13:07	0.086
12960	0.027	0.027	0.028	0.031	1:08:19 PM	10/23/2011 13:08	0.032
13020	0.026	0.026	0.028	0.031	1:09:19 PM	10/23/2011 13:09	0.031
13080	0.025	0.025	0.026	0.029	1:10:19 PM	10/23/2011 13:10	0.029
13140	0.029	0.03	0.031	0.033	1:11:19 PM	10/23/2011 13:11	0.034
13200	0.03	0.03	0.031	0.035	1:12:19 PM	10/23/2011 13:12	0.036
13260	0.032	0.032	0.033	0.039	1:13:19 PM	10/23/2011 13:13	0.042
13320	0.027	0.027	0.028	0.032	1:14:19 PM	10/23/2011 13:14	0.033
13380	0.025	0.025	0.026	0.029	1:15:19 PM	10/23/2011 13:15	0.029
13440	0.026	0.026	0.027	0.032	1:16:19 PM	10/23/2011 13:16	0.034
13500	0.026	0.026	0.027	0.029	1:17:19 PM	10/23/2011 13:17	0.03
13560	0.03	0.03	0.031	0.032	1:18:19 PM	10/23/2011 13:18	0.032
13620	0.025	0.025	0.026	0.027	1:19:19 PM	10/23/2011 13:19	0.027
13680	0.028	0.028	0.028	0.03	1:20:19 PM	10/23/2011 13:20	0.03
13740	0.022	0.022	0.022	0.024	1:21:19 PM	10/23/2011 13:21	0.024
13800	0.025	0.025	0.026	0.028	1:22:19 PM	10/23/2011 13:22	0.029
13860	0.025	0.025	0.025	0.026	1:23:19 PM	10/23/2011 13:23	0.026
13920	0.027	0.027	0.028	0.029	1:24:19 PM	10/23/2011 13:24	0.029
13980	0.027	0.028	0.028	0.029	1:25:19 PM	10/23/2011 13:25	0.029
14040	0.029	0.029	0.029	0.03	1:26:19 PM	10/23/2011 13:26	0.03
14100	0.025	0.025	0.026	0.026	1:27:19 PM	10/23/2011 13:27	0.027
14160	0.027	0.027	0.028	0.03	1:28:19 PM	10/23/2011 13:28	0.031

14220	0.025	0.025	0.026	0.028	1:29:19 PM	10/23/2011 13:29	0.029
14280	0.027	0.027	0.028	0.029	1:30:19 PM	10/23/2011 13:30	0.03
14340	0.02	0.021	0.021	0.022	1:31:19 PM	10/23/2011 13:31	0.022
14400	0.021	0.021	0.021	0.022	1:32:19 PM	10/23/2011 13:32	0.022
14460	0.021	0.021	0.022	0.024	1:33:19 PM	10/23/2011 13:33	0.024
14520	0.02	0.02	0.02	0.021	1:34:19 PM	10/23/2011 13:34	0.021
14580	0.023	0.023	0.023	0.023	1:35:19 PM	10/23/2011 13:35	0.023
14640	0.023	0.023	0.024	0.024	1:36:19 PM	10/23/2011 13:36	0.024
14700	0.024	0.024	0.024	0.025	1:37:19 PM	10/23/2011 13:37	0.025
14760	0.02	0.021	0.021	0.021	1:38:19 PM	10/23/2011 13:38	0.021
14820	0.021	0.021	0.021	0.021	1:39:19 PM	10/23/2011 13:39	0.021
14880	0.023	0.023	0.023	0.025	1:40:19 PM	10/23/2011 13:40	0.025
14940	0.023	0.023	0.024	0.025	1:41:19 PM	10/23/2011 13:41	0.025
15000	0.022	0.022	0.022	0.023	1:42:19 PM	10/23/2011 13:42	0.024
15060	0.02	0.02	0.02	0.021	1:43:19 PM	10/23/2011 13:43	0.021
15120	0.021	0.022	0.022	0.023	1:44:19 PM	10/23/2011 13:44	0.023
15180	0.025	0.026	0.026	0.029	1:45:19 PM	10/23/2011 13:45	0.029
15240	0.025	0.025	0.025	0.027	1:46:19 PM	10/23/2011 13:46	0.027
15300	0.025	0.025	0.026	0.029	1:47:19 PM	10/23/2011 13:47	0.029
15360	0.023	0.023	0.024	0.028	1:48:19 PM	10/23/2011 13:48	0.028
15420	0.034	0.035	0.038	0.049	1:49:19 PM	10/23/2011 13:49	0.051
15480	0.026	0.027	0.028	0.03	1:50:19 PM	10/23/2011 13:50	0.03
15540	0.024	0.025	0.025	0.027	1:51:19 PM	10/23/2011 13:51	0.027
15600	0.022	0.023	0.023	0.024	1:52:19 PM	10/23/2011 13:52	0.024
15660	0.021	0.021	0.022	0.022	1:53:19 PM	10/23/2011 13:53	0.022
15720	0.021	0.022	0.023	0.024	1:54:19 PM	10/23/2011 13:54	0.024
15780	0.02	0.02	0.021	0.023	1:55:19 PM	10/23/2011 13:55	0.023
15840	0.018	0.018	0.018	0.019	1:56:19 PM	10/23/2011 13:56	0.019
15900	0.018	0.018	0.018	0.019	1:57:19 PM	10/23/2011 13:57	0.019
15960	0.021	0.021	0.022	0.025	1:58:19 PM	10/23/2011 13:58	0.027
16020	0.03	0.031	0.032	0.036	1:59:19 PM	10/23/2011 13:59	0.038
16080	0.032	0.032	0.033	0.036	2:00:19 PM	10/23/2011 14:00	0.036
16140	0.035	0.036	0.037	0.039	2:01:19 PM	10/23/2011 14:01	0.04
16200	0.024	0.024	0.025	0.026	2:02:19 PM	10/23/2011 14:02	0.026
16260	0.028	0.028	0.029	0.03	2:03:19 PM	10/23/2011 14:03	0.03
16320	0.06	0.064	0.073	0.107	2:04:19 PM	10/23/2011 14:04	0.113
16380	0.026	0.026	0.027	0.027	2:05:19 PM	10/23/2011 14:05	0.028
16440	0.041	0.042	0.043	0.047	2:06:19 PM	10/23/2011 14:06	0.047
16500	0.099	0.106	0.126	0.185	2:07:19 PM	10/23/2011 14:07	0.197
16560	0.022	0.023	0.023	0.026	2:08:19 PM	10/23/2011 14:08	0.026
16620	0.043	0.043	0.044	0.047	2:09:19 PM	10/23/2011 14:09	0.048
16680	0.021	0.021	0.021	0.022	2:10:19 PM	10/23/2011 14:10	0.022
16740	0.077	0.081	0.094	0.139	2:11:19 PM	10/23/2011 14:11	0.151
16800	0.02	0.02	0.021	0.022	2:12:19 PM	10/23/2011 14:12	0.023
16860	0.019	0.02	0.02	0.022	2:13:19 PM	10/23/2011 14:13	0.022
16920	0.063	0.067	0.077	0.105	2:14:19 PM	10/23/2011 14:14	0.111
16980	0.05	0.053	0.062	0.085	2:15:19 PM	10/23/2011 14:15	0.088
17040	0.028	0.029	0.032	0.039	2:16:19 PM	10/23/2011 14:16	0.042
17100	0.03	0.031	0.034	0.044	2:17:19 PM	10/23/2011 14:17	0.046
17160	0.033	0.034	0.038	0.049	2:18:19 PM	10/23/2011 14:18	0.051
17220	0.02	0.02	0.021	0.023	2:19:19 PM	10/23/2011 14:19	0.024
17280	0.019	0.02	0.02	0.022	2:20:19 PM	10/23/2011 14:20	0.022
17340	0.021	0.022	0.023	0.025	2:21:19 PM	10/23/2011 14:21	0.026
17400	0.023	0.024	0.025	0.029	2:22:19 PM	10/23/2011 14:22	0.031
17460	0.022	0.023	0.024	0.028	2:23:19 PM	10/23/2011 14:23	0.028
17520	0.021	0.021	0.022	0.024	2:24:19 PM	10/23/2011 14:24	0.024
17580	0.018	0.018	0.018	0.019	2:25:19 PM	10/23/2011 14:25	0.019
17640	0.018	0.018	0.018	0.019	2:26:19 PM	10/23/2011 14:26	0.019
17700	0.022	0.023	0.024	0.027	2:27:19 PM	10/23/2011 14:27	0.028
17760	0.02	0.021	0.021	0.023	2:28:19 PM	10/23/2011 14:28	0.023
17820	0.025	0.026	0.027	0.03	2:29:19 PM	10/23/2011 14:29	0.03
17880	0.019	0.019	0.02	0.02	2:30:19 PM	10/23/2011 14:30	0.021
17940	0.02	0.02	0.021	0.023	2:31:19 PM	10/23/2011 14:31	0.024
18000	0.039	0.041	0.046	0.059	2:32:19 PM	10/23/2011 14:32	0.063
18060	0.044	0.045	0.05	0.066	2:33:19 PM	10/23/2011 14:33	0.072
18120	0.023	0.023	0.024	0.027	2:34:19 PM	10/23/2011 14:34	0.027
18180	0.02	0.02	0.02	0.022	2:35:19 PM	10/23/2011 14:35	0.022
18240	0.02	0.02	0.021	0.022	2:36:19 PM	10/23/2011 14:36	0.022
18300	0.02	0.02	0.021	0.024	2:37:19 PM	10/23/2011 14:37	0.025
18360	0.022	0.022	0.023	0.024	2:38:19 PM	10/23/2011 14:38	0.025
18420	0.027	0.028	0.028	0.031	2:39:19 PM	10/23/2011 14:39	0.031
18480	0.036	0.036	0.037	0.039	2:40:19 PM	10/23/2011 14:40	0.039
18540	0.03	0.03	0.031	0.031	2:41:19 PM	10/23/2011 14:41	0.032
18600	0.024	0.024	0.024	0.025	2:42:19 PM	10/23/2011 14:42	0.025
18660	0.02	0.021	0.021	0.022	2:43:19 PM	10/23/2011 14:43	0.022
18720	0.026	0.027	0.027	0.027	2:44:19 PM	10/23/2011 14:44	0.027
18780	0.036	0.036	0.037	0.037	2:45:19 PM	10/23/2011 14:45	0.037
18840	0.039	0.04	0.041	0.046	2:46:19 PM	10/23/2011 14:46	0.047
18900	0.051	0.052	0.057	0.075	2:47:19 PM	10/23/2011 14:47	0.08
18960	0.033	0.034	0.034	0.037	2:48:19 PM	10/23/2011 14:48	0.038
19020	0.032	0.032	0.032	0.033	2:49:19 PM	10/23/2011 14:49	0.034
19080	0.037	0.038	0.04	0.045	2:50:19 PM	10/23/2011 14:50	0.045
19140	0.03	0.031	0.032	0.035	2:51:19 PM	10/23/2011 14:51	0.037
19200	0.032	0.032	0.033	0.035	2:52:19 PM	10/23/2011 14:52	0.035
19260	0.027	0.027	0.027	0.028	2:53:19 PM	10/23/2011 14:53	0.028
19320	0.03	0.03	0.03	0.031	2:54:19 PM	10/23/2011 14:54	0.031
19380	0.026	0.026	0.026	0.027	2:55:19 PM	10/23/2011 14:55	0.027
19440	0.026	0.026	0.026	0.027	2:56:19 PM	10/23/2011 14:56	0.027
19500	0.034	0.035	0.037	0.044	2:57:19 PM	10/23/2011 14:57	0.045
19560	0.056	0.058	0.065	0.094	2:58:19 PM	10/23/2011 14:58	0.1
19620	0.035	0.036	0.039	0.052	2:59:19 PM	10/23/2011 14:59	0.053

19680	0.046	0.047	0.051	0.064	3:00:19 PM	10/23/2011 15:00	0.066
19740	0.06	0.061	0.063	0.068	3:01:19 PM	10/23/2011 15:01	0.069
19800	0.099	0.105	0.122	0.18	3:02:19 PM	10/23/2011 15:02	0.194
19860	0.037	0.038	0.042	0.055	3:03:19 PM	10/23/2011 15:03	0.059
19920	0.023	0.023	0.024	0.026	3:04:19 PM	10/23/2011 15:04	0.027
19980	0.021	0.021	0.022	0.023	3:05:19 PM	10/23/2011 15:05	0.023
20040	0.037	0.038	0.041	0.051	3:06:19 PM	10/23/2011 15:06	0.054
20100	0.036	0.037	0.04	0.05	3:07:19 PM	10/23/2011 15:07	0.053
20160	0.027	0.027	0.029	0.033	3:08:19 PM	10/23/2011 15:08	0.035
20220	0.021	0.021	0.022	0.023	3:09:19 PM	10/23/2011 15:09	0.023
20280	0.028	0.028	0.03	0.034	3:10:19 PM	10/23/2011 15:10	0.034
20340	0.028	0.028	0.03	0.036	3:11:19 PM	10/23/2011 15:11	0.036
20400	0.023	0.023	0.024	0.027	3:12:19 PM	10/23/2011 15:12	0.027
20460	0.031	0.031	0.034	0.04	3:13:19 PM	10/23/2011 15:13	0.041
20520	0.043	0.045	0.05	0.066	3:14:19 PM	10/23/2011 15:14	0.069
20580	0.067	0.072	0.083	0.108	3:15:19 PM	10/23/2011 15:15	0.112
20640	0.055	0.059	0.068	0.086	3:16:19 PM	10/23/2011 15:16	0.089
20700	0.026	0.027	0.029	0.032	3:17:19 PM	10/23/2011 15:17	0.034
20760	0.03	0.032	0.034	0.041	3:18:19 PM	10/23/2011 15:18	0.041
20820	0.038	0.04	0.044	0.054	3:19:19 PM	10/23/2011 15:19	0.055
20880	0.05	0.052	0.06	0.083	3:20:19 PM	10/23/2011 15:20	0.086
20940	0.03	0.031	0.034	0.042	3:21:19 PM	10/23/2011 15:21	0.043
21000	0.025	0.025	0.027	0.031	3:22:19 PM	10/23/2011 15:22	0.031
21060	0.028	0.029	0.031	0.037	3:23:19 PM	10/23/2011 15:23	0.038
21120	0.022	0.022	0.023	0.025	3:24:19 PM	10/23/2011 15:24	0.025
21180	0.029	0.03	0.032	0.039	3:25:19 PM	10/23/2011 15:25	0.04
21240	0.071	0.076	0.088	0.126	3:26:19 PM	10/23/2011 15:26	0.134
21300	0.069	0.074	0.086	0.117	3:27:19 PM	10/23/2011 15:27	0.124
21360	0.034	0.035	0.039	0.046	3:28:19 PM	10/23/2011 15:28	0.048
21420	0.042	0.044	0.049	0.061	3:29:19 PM	10/23/2011 15:29	0.063
21480	0.059	0.062	0.071	0.094	3:30:19 PM	10/23/2011 15:30	0.098
21540	0.041	0.043	0.048	0.063	3:31:19 PM	10/23/2011 15:31	0.066
21600	0.042	0.044	0.05	0.064	3:32:19 PM	10/23/2011 15:32	0.066
21660	0.041	0.043	0.048	0.062	3:33:19 PM	10/23/2011 15:33	0.065
21720	0.025	0.026	0.027	0.03	3:34:19 PM	10/23/2011 15:34	0.03
21780	0.032	0.033	0.035	0.041	3:35:19 PM	10/23/2011 15:35	0.042
21840	0.029	0.03	0.032	0.036	3:36:19 PM	10/23/2011 15:36	0.037
21900	0.024	0.024	0.025	0.028	3:37:19 PM	10/23/2011 15:37	0.029
21960	0.023	0.024	0.025	0.027	3:38:19 PM	10/23/2011 15:38	0.028
22020	0.022	0.022	0.023	0.024	3:39:19 PM	10/23/2011 15:39	0.024
22080	0.021	0.022	0.022	0.023	3:40:19 PM	10/23/2011 15:40	0.023
22140	0.022	0.022	0.023	0.024	3:41:19 PM	10/23/2011 15:41	0.024
22200	0.023	0.023	0.024	0.026	3:42:19 PM	10/23/2011 15:42	0.027
22260	0.021	0.021	0.021	0.022	3:43:19 PM	10/23/2011 15:43	0.023
22320	0.021	0.021	0.021	0.022	3:44:19 PM	10/23/2011 15:44	0.022
22380	0.032	0.032	0.035	0.046	3:45:19 PM	10/23/2011 15:45	0.049
22440	0.029	0.03	0.032	0.039	3:46:19 PM	10/23/2011 15:46	0.042
22500	0.02	0.02	0.02	0.021	3:47:19 PM	10/23/2011 15:47	0.021
22560	0.021	0.021	0.021	0.022	3:48:19 PM	10/23/2011 15:48	0.022
22620	0.024	0.024	0.025	0.028	3:49:19 PM	10/23/2011 15:49	0.028
22680	0.024	0.024	0.026	0.029	3:50:19 PM	10/23/2011 15:50	0.03
22740	0.079	0.085	0.101	0.139	3:51:19 PM	10/23/2011 15:51	0.146
22800	0.153	0.17	0.208	0.288	3:52:19 PM	10/23/2011 15:52	0.299
22860	0.089	0.097	0.117	0.159	3:53:19 PM	10/23/2011 15:53	0.163
22920	0.072	0.079	0.095	0.125	3:54:19 PM	10/23/2011 15:54	0.128
22980	0.033	0.035	0.038	0.046	3:55:19 PM	10/23/2011 15:55	0.048
23040	0.024	0.024	0.025	0.028	3:56:19 PM	10/23/2011 15:56	0.028
23100	0.022	0.022	0.023	0.024	3:57:19 PM	10/23/2011 15:57	0.025
23160	0.03	0.031	0.033	0.041	3:58:19 PM	10/23/2011 15:58	0.045
23220	0.021	0.022	0.022	0.024	3:59:19 PM	10/23/2011 15:59	0.024
23280	0.021	0.022	0.022	0.023	4:00:19 PM	10/23/2011 16:00	0.023
23340	0.021	0.021	0.022	0.022	4:01:19 PM	10/23/2011 16:01	0.022
23400	0.023	0.023	0.024	0.026	4:02:19 PM	10/23/2011 16:02	0.026
23460	0.023	0.024	0.025	0.027	4:03:19 PM	10/23/2011 16:03	0.027
23520	0.03	0.031	0.034	0.04	4:04:19 PM	10/23/2011 16:04	0.041
23580	0.053	0.057	0.066	0.086	4:05:19 PM	10/23/2011 16:05	0.089
23640	0.039	0.042	0.047	0.058	4:06:19 PM	10/23/2011 16:06	0.061
23700	0.05	0.053	0.061	0.079	4:07:19 PM	10/23/2011 16:07	0.081
23760	0.049	0.053	0.062	0.08	4:08:19 PM	10/23/2011 16:08	0.082
23820	0.06	0.064	0.075	0.104	4:09:19 PM	10/23/2011 16:09	0.11
23880	0.055	0.059	0.069	0.096	4:10:19 PM	10/23/2011 16:10	0.099
23940	0.046	0.049	0.056	0.073	4:11:19 PM	10/23/2011 16:11	0.076

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_006
Test Start Time	9:28:09 AM
Test Start Date	10/24/2011
Test Length [D:H:M]	0:05:27
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.045
PM1 Minimum [mg/m3]	0.032
PM1 Maximum [mg/m3]	0.131
PM1 TWA [mg/m3]	0.031
PM2.5 Average [mg/m3]	0.046
PM2.5 Minimum [mg/m3]	0.032
PM2.5 Maximum [mg/m3]	0.133
PM2.5 TWA [mg/m3]	0.031
PM4 Average [mg/m3]	0.047
PM4 Minimum [mg/m3]	0.033
PM4 Maximum [mg/m3]	0.137
PM4 TWA [mg/m3]	0.032
PM10 Average [mg/m3]	0.049
PM10 Minimum [mg/m3]	0.033
PM10 Maximum [mg/m3]	0.146
PM10 TWA [mg/m3]	0.034
TOTAL Average [mg/m3]	0.05
TOTAL Minimum [mg/m3]	0.033
TOTAL Maximum [mg/m3]	0.148
TOTAL TWA [mg/m3]	0.034
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	327



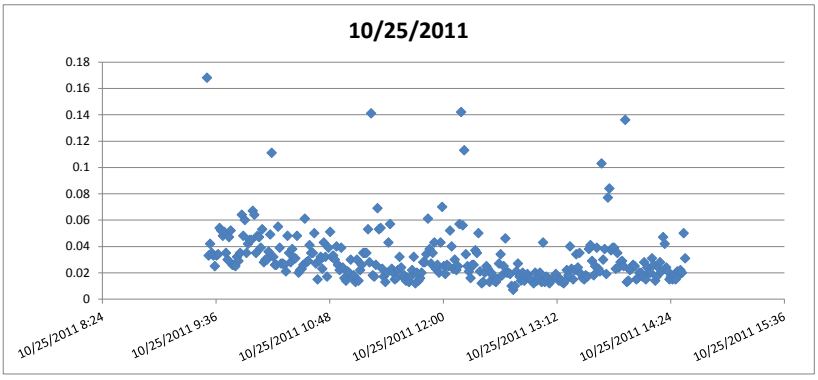
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:28:09 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.092	0.093	0.095	0.109	9:29:09 AM	10/24/2011 9:29	0.122		
120	0.104	0.106	0.11	0.114	9:30:09 AM	10/24/2011 9:30	0.116		
180	0.067	0.068	0.069	0.073	9:31:09 AM	10/24/2011 9:31	0.075		
240	0.06	0.06	0.061	0.063	9:32:09 AM	10/24/2011 9:32	0.064		
300	0.055	0.055	0.056	0.056	9:33:09 AM	10/24/2011 9:33	0.056		
360	0.058	0.058	0.059	0.06	9:34:09 AM	10/24/2011 9:34	0.06		
420	0.056	0.057	0.057	0.058	9:35:09 AM	10/24/2011 9:35	0.059		
480	0.057	0.057	0.058	0.06	9:36:09 AM	10/24/2011 9:36	0.061		
540	0.054	0.055	0.055	0.056	9:37:09 AM	10/24/2011 9:37	0.056		
600	0.055	0.055	0.056	0.057	9:38:09 AM	10/24/2011 9:38	0.057		
660	0.057	0.057	0.057	0.058	9:39:09 AM	10/24/2011 9:39	0.059		
720	0.059	0.059	0.06	0.061	9:40:09 AM	10/24/2011 9:40	0.061		
780	0.055	0.056	0.056	0.057	9:41:09 AM	10/24/2011 9:41	0.057		
840	0.06	0.06	0.061	0.062	9:42:09 AM	10/24/2011 9:42	0.063		
900	0.074	0.075	0.076	0.079	9:43:09 AM	10/24/2011 9:43	0.08		
960	0.062	0.062	0.063	0.065	9:44:09 AM	10/24/2011 9:44	0.067		
1020	0.066	0.067	0.068	0.07	9:45:09 AM	10/24/2011 9:45	0.071		
1080	0.057	0.057	0.058	0.059	9:46:09 AM	10/24/2011 9:46	0.06		
1140	0.06	0.06	0.061	0.062	9:47:09 AM	10/24/2011 9:47	0.062		
1200	0.056	0.057	0.057	0.058	9:48:09 AM	10/24/2011 9:48	0.059		
1260	0.061	0.061	0.063	0.065	9:49:09 AM	10/24/2011 9:49	0.066		
1320	0.066	0.068	0.071	0.077	9:50:09 AM	10/24/2011 9:50	0.078		
1380	0.091	0.092	0.095	0.1	9:51:09 AM	10/24/2011 9:51	0.102		
1440	0.074	0.075	0.078	0.083	9:52:09 AM	10/24/2011 9:52	0.085		
1500	0.064	0.065	0.068	0.073	9:53:09 AM	10/24/2011 9:53	0.074		
1560	0.058	0.058	0.059	0.061	9:54:09 AM	10/24/2011 9:54	0.061		
1620	0.053	0.053	0.054	0.056	9:55:09 AM	10/24/2011 9:55	0.057		
1680	0.057	0.058	0.06	0.065	9:56:09 AM	10/24/2011 9:56	0.066		
1740	0.055	0.056	0.057	0.059	9:57:09 AM	10/24/2011 9:57	0.059		
1800	0.046	0.046	0.047	0.048	9:58:09 AM	10/24/2011 9:58	0.048		
1860	0.051	0.052	0.053	0.054	9:59:09 AM	10/24/2011 9:59	0.055		
1920	0.055	0.056	0.059	0.064	10:00:09 AM	10/24/2011 10:00	0.065		
1980	0.053	0.054	0.056	0.06	10:01:09 AM	10/24/2011 10:01	0.06		
2040	0.046	0.047	0.048	0.05	10:02:09 AM	10/24/2011 10:02	0.051		
2100	0.045	0.045	0.046	0.049	10:03:09 AM	10/24/2011 10:03	0.049		
2160	0.051	0.052	0.054	0.059	10:04:09 AM	10/24/2011 10:04	0.06		
2220	0.048	0.049	0.051	0.056	10:05:09 AM	10/24/2011 10:05	0.058		
2280	0.047	0.048	0.049	0.051	10:06:09 AM	10/24/2011 10:06	0.051		
2340	0.043	0.044	0.044	0.046	10:07:09 AM	10/24/2011 10:07	0.046		
2400	0.065	0.067	0.071	0.083	10:08:09 AM	10/24/2011 10:08	0.085		
2460	0.058	0.059	0.062	0.069	10:09:09 AM	10/24/2011 10:09	0.072		
2520	0.051	0.052	0.053	0.058	10:10:09 AM	10/24/2011 10:10	0.058		
2580	0.046	0.047	0.048	0.051	10:11:09 AM	10/24/2011 10:11	0.051		
2640	0.05	0.051	0.052	0.055	10:12:09 AM	10/24/2011 10:12	0.056		
2700	0.043	0.043	0.044	0.046	10:13:09 AM	10/24/2011 10:13	0.046		
2760	0.05	0.051	0.053	0.057	10:14:09 AM	10/24/2011 10:14	0.058		
2820	0.065	0.066	0.071	0.084	10:15:09 AM	10/24/2011 10:15	0.087		
2880	0.052	0.053	0.055	0.06	10:16:09 AM	10/24/2011 10:16	0.061		
2940	0.056	0.057	0.059	0.063	10:17:09 AM	10/24/2011 10:17	0.065		
3000	0.046	0.047	0.048	0.05	10:18:09 AM	10/24/2011 10:18	0.051		
3060	0.049	0.049	0.05	0.052	10:19:09 AM	10/24/2011 10:19	0.052		
3120	0.056	0.057	0.059	0.065	10:20:09 AM	10/24/2011 10:20	0.066		
3180	0.049	0.05	0.051	0.055	10:21:09 AM	10/24/2011 10:21	0.055		
3240	0.061	0.063	0.066	0.073	10:22:09 AM	10/24/2011 10:22	0.074		

3300	0.059	0.061	0.064	0.07	10:23:09 AM	10/24/2011 10:23	0.071
3360	0.047	0.048	0.05	0.052	10:24:09 AM	10/24/2011 10:24	0.053
3420	0.041	0.041	0.041	0.043	10:25:09 AM	10/24/2011 10:25	0.044
3480	0.041	0.041	0.042	0.043	10:26:09 AM	10/24/2011 10:26	0.044
3540	0.042	0.043	0.043	0.044	10:27:09 AM	10/24/2011 10:27	0.045
3600	0.04	0.04	0.041	0.041	10:28:09 AM	10/24/2011 10:28	0.042
3660	0.045	0.046	0.047	0.048	10:29:09 AM	10/24/2011 10:29	0.048
3720	0.051	0.052	0.053	0.054	10:30:09 AM	10/24/2011 10:30	0.054
3780	0.043	0.043	0.044	0.045	10:31:09 AM	10/24/2011 10:31	0.046
3840	0.038	0.038	0.039	0.04	10:32:09 AM	10/24/2011 10:32	0.04
3900	0.039	0.039	0.039	0.041	10:33:09 AM	10/24/2011 10:33	0.041
3960	0.042	0.043	0.044	0.046	10:34:09 AM	10/24/2011 10:34	0.047
4020	0.038	0.038	0.039	0.041	10:35:09 AM	10/24/2011 10:35	0.041
4080	0.041	0.041	0.042	0.043	10:36:09 AM	10/24/2011 10:36	0.043
4140	0.041	0.041	0.042	0.043	10:37:09 AM	10/24/2011 10:37	0.043
4200	0.038	0.038	0.039	0.041	10:38:09 AM	10/24/2011 10:38	0.042
4260	0.04	0.04	0.041	0.042	10:39:09 AM	10/24/2011 10:39	0.043
4320	0.045	0.045	0.046	0.049	10:40:09 AM	10/24/2011 10:40	0.049
4380	0.042	0.042	0.043	0.044	10:41:09 AM	10/24/2011 10:41	0.044
4440	0.041	0.042	0.042	0.045	10:42:09 AM	10/24/2011 10:42	0.045
4500	0.044	0.044	0.045	0.047	10:43:09 AM	10/24/2011 10:43	0.047
4560	0.063	0.064	0.067	0.078	10:44:09 AM	10/24/2011 10:44	0.084
4620	0.039	0.04	0.041	0.043	10:45:09 AM	10/24/2011 10:45	0.043
4680	0.042	0.043	0.044	0.046	10:46:09 AM	10/24/2011 10:46	0.046
4740	0.039	0.039	0.04	0.041	10:47:09 AM	10/24/2011 10:47	0.042
4800	0.045	0.046	0.047	0.052	10:48:09 AM	10/24/2011 10:48	0.052
4860	0.046	0.047	0.048	0.052	10:49:09 AM	10/24/2011 10:49	0.052
4920	0.038	0.039	0.039	0.041	10:50:09 AM	10/24/2011 10:50	0.042
4980	0.038	0.039	0.039	0.041	10:51:09 AM	10/24/2011 10:51	0.042
5040	0.053	0.053	0.054	0.055	10:52:09 AM	10/24/2011 10:52	0.055
5100	0.066	0.067	0.069	0.073	10:53:09 AM	10/24/2011 10:53	0.073
5160	0.041	0.041	0.042	0.044	10:54:09 AM	10/24/2011 10:54	0.044
5220	0.065	0.066	0.069	0.075	10:55:09 AM	10/24/2011 10:55	0.075
5280	0.062	0.062	0.063	0.064	10:56:09 AM	10/24/2011 10:56	0.064
5340	0.048	0.049	0.049	0.055	10:57:09 AM	10/24/2011 10:57	0.058
5400	0.037	0.037	0.038	0.039	10:58:09 AM	10/24/2011 10:58	0.039
5460	0.04	0.04	0.041	0.042	10:59:09 AM	10/24/2011 10:59	0.043
5520	0.04	0.04	0.041	0.042	11:00:09 AM	10/24/2011 11:00	0.042
5580	0.044	0.044	0.045	0.046	11:01:09 AM	10/24/2011 11:01	0.047
5640	0.039	0.04	0.04	0.041	11:02:09 AM	10/24/2011 11:02	0.042
5700	0.038	0.039	0.039	0.04	11:03:09 AM	10/24/2011 11:03	0.04
5760	0.071	0.072	0.072	0.074	11:04:09 AM	10/24/2011 11:04	0.075
5820	0.038	0.039	0.039	0.04	11:05:09 AM	10/24/2011 11:05	0.04
5880	0.049	0.049	0.051	0.053	11:06:09 AM	10/24/2011 11:06	0.054
5940	0.06	0.061	0.063	0.067	11:07:09 AM	10/24/2011 11:07	0.068
6000	0.054	0.055	0.056	0.061	11:08:09 AM	10/24/2011 11:08	0.061
6060	0.045	0.046	0.047	0.051	11:09:09 AM	10/24/2011 11:09	0.051
6120	0.042	0.042	0.043	0.044	11:10:09 AM	10/24/2011 11:10	0.044
6180	0.039	0.039	0.039	0.041	11:11:09 AM	10/24/2011 11:11	0.042
6240	0.039	0.039	0.04	0.042	11:12:09 AM	10/24/2011 11:12	0.042
6300	0.038	0.038	0.039	0.04	11:13:09 AM	10/24/2011 11:13	0.04
6360	0.037	0.038	0.038	0.039	11:14:09 AM	10/24/2011 11:14	0.039
6420	0.038	0.038	0.039	0.04	11:15:09 AM	10/24/2011 11:15	0.04
6480	0.04	0.04	0.041	0.042	11:16:09 AM	10/24/2011 11:16	0.042
6540	0.046	0.047	0.048	0.051	11:17:09 AM	10/24/2011 11:17	0.052
6600	0.043	0.044	0.045	0.047	11:18:09 AM	10/24/2011 11:18	0.047
6660	0.043	0.043	0.045	0.047	11:19:09 AM	10/24/2011 11:19	0.047
6720	0.04	0.041	0.042	0.043	11:20:09 AM	10/24/2011 11:20	0.044
6780	0.039	0.04	0.041	0.043	11:21:09 AM	10/24/2011 11:21	0.043
6840	0.048	0.049	0.05	0.054	11:22:09 AM	10/24/2011 11:22	0.056
6900	0.047	0.048	0.05	0.053	11:23:09 AM	10/24/2011 11:23	0.054
6960	0.046	0.046	0.048	0.051	11:24:09 AM	10/24/2011 11:24	0.051
7020	0.044	0.045	0.046	0.048	11:25:09 AM	10/24/2011 11:25	0.048
7080	0.055	0.057	0.06	0.065	11:26:09 AM	10/24/2011 11:26	0.065
7140	0.041	0.041	0.042	0.044	11:27:09 AM	10/24/2011 11:27	0.048
7200	0.041	0.042	0.043	0.048	11:28:09 AM	10/24/2011 11:28	0.049
7260	0.036	0.037	0.037	0.039	11:29:09 AM	10/24/2011 11:29	0.039
7320	0.036	0.037	0.037	0.039	11:30:09 AM	10/24/2011 11:30	0.039
7380	0.038	0.038	0.038	0.041	11:31:09 AM	10/24/2011 11:31	0.042
7440	0.037	0.037	0.038	0.039	11:32:09 AM	10/24/2011 11:32	0.042
7500	0.042	0.043	0.044	0.046	11:33:09 AM	10/24/2011 11:33	0.046
7560	0.04	0.04	0.041	0.044	11:34:09 AM	10/24/2011 11:34	0.045
7620	0.036	0.037	0.037	0.039	11:35:09 AM	10/24/2011 11:35	0.04
7680	0.033	0.034	0.034	0.037	11:36:09 AM	10/24/2011 11:36	0.038
7740	0.038	0.038	0.039	0.042	11:37:09 AM	10/24/2011 11:37	0.044
7800	0.035	0.036	0.036	0.039	11:38:09 AM	10/24/2011 11:38	0.04
7860	0.035	0.035	0.036	0.038	11:39:09 AM	10/24/2011 11:39	0.04
7920	0.037	0.038	0.038	0.04	11:40:09 AM	10/24/2011 11:40	0.042
7980	0.038	0.039	0.04	0.044	11:41:09 AM	10/24/2011 11:41	0.046
8040	0.034	0.035	0.036	0.038	11:42:09 AM	10/24/2011 11:42	0.039
8100	0.038	0.039	0.04	0.044	11:43:09 AM	10/24/2011 11:43	0.046
8160	0.044	0.044	0.046	0.054	11:44:09 AM	10/24/2011 11:44	0.056
8220	0.035	0.035	0.036	0.039	11:45:09 AM	10/24/2011 11:45	0.039
8280	0.041	0.042	0.044	0.051	11:46:09 AM	10/24/2011 11:46	0.054
8340	0.047	0.048	0.049	0.057	11:47:09 AM	10/24/2011 11:47	0.062
8400	0.043	0.044	0.045	0.049	11:48:09 AM	10/24/2011 11:48	0.05
8460	0.037	0.038	0.039	0.042	11:49:09 AM	10/24/2011 11:49	0.044
8520	0.041	0.042	0.043	0.049	11:50:09 AM	10/24/2011 11:50	0.051
8580	0.038	0.038	0.039	0.043	11:51:09 AM	10/24/2011 11:51	0.046
8640	0.038	0.038	0.039	0.041	11:52:09 AM	10/24/2011 11:52	0.042
8700	0.042	0.042	0.043	0.049	11:53:09 AM	10/24/2011 11:53	0.052

8760	0.035	0.036	0.037	0.038	11:54:09 AM	10/24/2011 11:54	0.038
8820	0.043	0.043	0.045	0.05	11:55:09 AM	10/24/2011 11:55	0.053
8880	0.035	0.035	0.036	0.04	11:56:09 AM	10/24/2011 11:56	0.041
8940	0.045	0.045	0.046	0.05	11:57:09 AM	10/24/2011 11:57	0.053
9000	0.04	0.04	0.041	0.043	11:58:09 AM	10/24/2011 11:58	0.043
9060	0.04	0.041	0.041	0.043	11:59:09 AM	10/24/2011 11:59	0.043
9120	0.039	0.039	0.04	0.041	12:00:09 PM	10/24/2011 12:00	0.041
9180	0.04	0.041	0.042	0.043	12:01:09 PM	10/24/2011 12:01	0.043
9240	0.034	0.035	0.035	0.035	12:02:09 PM	10/24/2011 12:02	0.035
9300	0.044	0.045	0.046	0.049	12:03:09 PM	10/24/2011 12:03	0.049
9360	0.131	0.133	0.137	0.146	12:04:09 PM	10/24/2011 12:04	0.148
9420	0.036	0.036	0.036	0.037	12:05:09 PM	10/24/2011 12:05	0.037
9480	0.037	0.038	0.038	0.039	12:06:09 PM	10/24/2011 12:06	0.039
9540	0.048	0.049	0.05	0.052	12:07:09 PM	10/24/2011 12:07	0.052
9600	0.051	0.052	0.053	0.057	12:08:09 PM	10/24/2011 12:08	0.057
9660	0.045	0.046	0.046	0.048	12:09:09 PM	10/24/2011 12:09	0.05
9720	0.039	0.04	0.04	0.041	12:10:09 PM	10/24/2011 12:10	0.041
9780	0.045	0.045	0.046	0.048	12:11:09 PM	10/24/2011 12:11	0.048
9840	0.049	0.05	0.052	0.055	12:12:09 PM	10/24/2011 12:12	0.056
9900	0.043	0.044	0.045	0.048	12:13:09 PM	10/24/2011 12:13	0.048
9960	0.038	0.039	0.039	0.041	12:14:09 PM	10/24/2011 12:14	0.041
10020	0.039	0.039	0.04	0.041	12:15:09 PM	10/24/2011 12:15	0.041
10080	0.038	0.038	0.039	0.04	12:16:09 PM	10/24/2011 12:16	0.041
10140	0.035	0.035	0.036	0.037	12:17:09 PM	10/24/2011 12:17	0.037
10200	0.035	0.035	0.036	0.037	12:18:09 PM	10/24/2011 12:18	0.037
10260	0.038	0.038	0.038	0.039	12:19:09 PM	10/24/2011 12:19	0.039
10320	0.043	0.044	0.045	0.047	12:20:09 PM	10/24/2011 12:20	0.047
10380	0.042	0.042	0.043	0.045	12:21:09 PM	10/24/2011 12:21	0.045
10440	0.047	0.047	0.048	0.05	12:22:09 PM	10/24/2011 12:22	0.05
10500	0.05	0.05	0.051	0.053	12:23:09 PM	10/24/2011 12:23	0.053
10560	0.051	0.052	0.054	0.06	12:24:09 PM	10/24/2011 12:24	0.061
10620	0.048	0.049	0.052	0.057	12:25:09 PM	10/24/2011 12:25	0.058
10680	0.042	0.042	0.043	0.045	12:26:09 PM	10/24/2011 12:26	0.046
10740	0.055	0.055	0.056	0.057	12:27:09 PM	10/24/2011 12:27	0.057
10800	0.038	0.038	0.039	0.039	12:28:09 PM	10/24/2011 12:28	0.04
10860	0.037	0.038	0.038	0.039	12:29:09 PM	10/24/2011 12:29	0.039
10920	0.041	0.041	0.042	0.042	12:30:09 PM	10/24/2011 12:30	0.043
10980	0.041	0.042	0.042	0.043	12:31:09 PM	10/24/2011 12:31	0.044
11040	0.047	0.048	0.049	0.052	12:32:09 PM	10/24/2011 12:32	0.052
11100	0.048	0.049	0.05	0.053	12:33:09 PM	10/24/2011 12:33	0.053
11160	0.043	0.043	0.044	0.046	12:34:09 PM	10/24/2011 12:34	0.047
11220	0.038	0.038	0.039	0.04	12:35:09 PM	10/24/2011 12:35	0.041
11280	0.045	0.046	0.047	0.051	12:36:09 PM	10/24/2011 12:36	0.051
11340	0.043	0.044	0.045	0.047	12:37:09 PM	10/24/2011 12:37	0.048
11400	0.04	0.04	0.041	0.042	12:38:09 PM	10/24/2011 12:38	0.042
11460	0.047	0.047	0.048	0.05	12:39:09 PM	10/24/2011 12:39	0.05
11520	0.042	0.043	0.043	0.044	12:40:09 PM	10/24/2011 12:40	0.045
11580	0.046	0.047	0.048	0.05	12:41:09 PM	10/24/2011 12:41	0.05
11640	0.043	0.043	0.044	0.046	12:42:09 PM	10/24/2011 12:42	0.047
11700	0.045	0.046	0.047	0.049	12:43:09 PM	10/24/2011 12:43	0.049
11760	0.045	0.045	0.046	0.047	12:44:09 PM	10/24/2011 12:44	0.048
11820	0.039	0.04	0.04	0.041	12:45:09 PM	10/24/2011 12:45	0.042
11880	0.036	0.036	0.037	0.038	12:46:09 PM	10/24/2011 12:46	0.038
11940	0.052	0.052	0.054	0.058	12:47:09 PM	10/24/2011 12:47	0.059
12000	0.046	0.046	0.048	0.052	12:48:09 PM	10/24/2011 12:48	0.053
12060	0.035	0.036	0.036	0.038	12:49:09 PM	10/24/2011 12:49	0.038
12120	0.034	0.034	0.035	0.035	12:50:09 PM	10/24/2011 12:50	0.035
12180	0.036	0.037	0.037	0.038	12:51:09 PM	10/24/2011 12:51	0.039
12240	0.037	0.038	0.038	0.039	12:52:09 PM	10/24/2011 12:52	0.039
12300	0.036	0.036	0.037	0.037	12:53:09 PM	10/24/2011 12:53	0.038
12360	0.042	0.043	0.044	0.045	12:54:09 PM	10/24/2011 12:54	0.045
12420	0.043	0.043	0.044	0.045	12:55:09 PM	10/24/2011 12:55	0.045
12480	0.043	0.043	0.044	0.045	12:56:09 PM	10/24/2011 12:56	0.045
12540	0.045	0.045	0.046	0.048	12:57:09 PM	10/24/2011 12:57	0.049
12600	0.044	0.045	0.045	0.047	12:58:09 PM	10/24/2011 12:58	0.047
12660	0.037	0.038	0.038	0.039	12:59:09 PM	10/24/2011 12:59	0.04
12720	0.037	0.038	0.038	0.04	1:00:09 PM	10/24/2011 13:00	0.04
12780	0.038	0.038	0.039	0.04	1:01:09 PM	10/24/2011 13:01	0.042
12840	0.037	0.037	0.037	0.038	1:02:09 PM	10/24/2011 13:02	0.039
12900	0.041	0.041	0.042	0.044	1:03:09 PM	10/24/2011 13:03	0.044
12960	0.036	0.036	0.037	0.038	1:04:09 PM	10/24/2011 13:04	0.038
13020	0.035	0.035	0.036	0.036	1:05:09 PM	10/24/2011 13:05	0.036
13080	0.035	0.035	0.035	0.036	1:06:09 PM	10/24/2011 13:06	0.036
13140	0.034	0.034	0.035	0.035	1:07:09 PM	10/24/2011 13:07	0.035
13200	0.04	0.041	0.042	0.044	1:08:09 PM	10/24/2011 13:08	0.044
13260	0.052	0.054	0.056	0.06	1:09:09 PM	10/24/2011 13:09	0.061
13320	0.044	0.044	0.045	0.047	1:10:09 PM	10/24/2011 13:10	0.047
13380	0.043	0.044	0.045	0.047	1:11:09 PM	10/24/2011 13:11	0.048
13440	0.039	0.039	0.04	0.041	1:12:09 PM	10/24/2011 13:12	0.041
13500	0.039	0.039	0.04	0.041	1:13:09 PM	10/24/2011 13:13	0.041
13560	0.042	0.042	0.043	0.045	1:14:09 PM	10/24/2011 13:14	0.045
13620	0.045	0.046	0.047	0.05	1:15:09 PM	10/24/2011 13:15	0.051
13680	0.041	0.042	0.043	0.045	1:16:09 PM	10/24/2011 13:16	0.046
13740	0.036	0.037	0.037	0.038	1:17:09 PM	10/24/2011 13:17	0.039
13800	0.04	0.04	0.04	0.041	1:18:09 PM	10/24/2011 13:18	0.042
13860	0.044	0.044	0.045	0.046	1:19:09 PM	10/24/2011 13:19	0.047
13920	0.043	0.043	0.044	0.048	1:20:09 PM	10/24/2011 13:20	0.048
13980	0.063	0.064	0.065	0.069	1:21:09 PM	10/24/2011 13:21	0.069
14040	0.045	0.045	0.046	0.049	1:22:09 PM	10/24/2011 13:22	0.049
14100	0.04	0.041	0.042	0.045	1:23:09 PM	10/24/2011 13:23	0.045
14160	0.038	0.039	0.039	0.041	1:24:09 PM	10/24/2011 13:24	0.042

14220	0.037	0.037	0.038	0.039	1:25:09 PM	10/24/2011 13:25	0.039
14280	0.034	0.034	0.035	0.035	1:26:09 PM	10/24/2011 13:26	0.035
14340	0.036	0.036	0.037	0.038	1:27:09 PM	10/24/2011 13:27	0.039
14400	0.034	0.034	0.034	0.035	1:28:09 PM	10/24/2011 13:28	0.035
14460	0.035	0.035	0.035	0.036	1:29:09 PM	10/24/2011 13:29	0.037
14520	0.035	0.036	0.036	0.037	1:30:09 PM	10/24/2011 13:30	0.037
14580	0.039	0.039	0.039	0.041	1:31:09 PM	10/24/2011 13:31	0.041
14640	0.035	0.035	0.036	0.037	1:32:09 PM	10/24/2011 13:32	0.037
14700	0.036	0.036	0.036	0.037	1:33:09 PM	10/24/2011 13:33	0.038
14760	0.034	0.034	0.034	0.035	1:34:09 PM	10/24/2011 13:34	0.035
14820	0.034	0.035	0.035	0.036	1:35:09 PM	10/24/2011 13:35	0.036
14880	0.039	0.039	0.04	0.042	1:36:09 PM	10/24/2011 13:36	0.042
14940	0.038	0.039	0.039	0.041	1:37:09 PM	10/24/2011 13:37	0.041
15000	0.04	0.04	0.041	0.043	1:38:09 PM	10/24/2011 13:38	0.043
15060	0.041	0.041	0.042	0.044	1:39:09 PM	10/24/2011 13:39	0.044
15120	0.042	0.043	0.044	0.046	1:40:09 PM	10/24/2011 13:40	0.046
15180	0.053	0.054	0.056	0.059	1:41:09 PM	10/24/2011 13:41	0.059
15240	0.053	0.055	0.056	0.062	1:42:09 PM	10/24/2011 13:42	0.062
15300	0.037	0.038	0.039	0.04	1:43:09 PM	10/24/2011 13:43	0.04
15360	0.045	0.046	0.047	0.05	1:44:09 PM	10/24/2011 13:44	0.051
15420	0.041	0.041	0.042	0.044	1:45:09 PM	10/24/2011 13:45	0.044
15480	0.046	0.047	0.049	0.054	1:46:09 PM	10/24/2011 13:46	0.054
15540	0.04	0.041	0.042	0.044	1:47:09 PM	10/24/2011 13:47	0.044
15600	0.04	0.04	0.041	0.043	1:48:09 PM	10/24/2011 13:48	0.043
15660	0.043	0.043	0.045	0.049	1:49:09 PM	10/24/2011 13:49	0.049
15720	0.036	0.036	0.037	0.038	1:50:09 PM	10/24/2011 13:50	0.038
15780	0.035	0.035	0.036	0.037	1:51:09 PM	10/24/2011 13:51	0.037
15840	0.034	0.035	0.035	0.036	1:52:09 PM	10/24/2011 13:52	0.036
15900	0.034	0.035	0.035	0.037	1:53:09 PM	10/24/2011 13:53	0.037
15960	0.039	0.04	0.04	0.041	1:54:09 PM	10/24/2011 13:54	0.041
16020	0.039	0.039	0.04	0.043	1:55:09 PM	10/24/2011 13:55	0.044
16080	0.038	0.038	0.039	0.041	1:56:09 PM	10/24/2011 13:56	0.042
16140	0.039	0.04	0.041	0.043	1:57:09 PM	10/24/2011 13:57	0.043
16200	0.038	0.039	0.039	0.041	1:58:09 PM	10/24/2011 13:58	0.041
16260	0.042	0.043	0.043	0.045	1:59:09 PM	10/24/2011 13:59	0.045
16320	0.039	0.04	0.041	0.042	2:00:09 PM	10/24/2011 14:00	0.042
16380	0.038	0.039	0.039	0.041	2:01:09 PM	10/24/2011 14:01	0.042
16440	0.038	0.039	0.04	0.041	2:02:09 PM	10/24/2011 14:02	0.041
16500	0.046	0.046	0.047	0.05	2:03:09 PM	10/24/2011 14:03	0.05
16560	0.049	0.05	0.051	0.053	2:04:09 PM	10/24/2011 14:04	0.054
16620	0.059	0.06	0.064	0.073	2:05:09 PM	10/24/2011 14:05	0.075
16680	0.043	0.043	0.045	0.048	2:06:09 PM	10/24/2011 14:06	0.048
16740	0.046	0.047	0.048	0.05	2:07:09 PM	10/24/2011 14:07	0.051
16800	0.041	0.041	0.042	0.044	2:08:09 PM	10/24/2011 14:08	0.044
16860	0.056	0.056	0.057	0.059	2:09:09 PM	10/24/2011 14:09	0.059
16920	0.046	0.046	0.047	0.049	2:10:09 PM	10/24/2011 14:10	0.049
16980	0.041	0.042	0.043	0.045	2:11:09 PM	10/24/2011 14:11	0.047
17040	0.036	0.036	0.036	0.038	2:12:09 PM	10/24/2011 14:12	0.038
17100	0.035	0.035	0.036	0.036	2:13:09 PM	10/24/2011 14:13	0.036
17160	0.035	0.035	0.036	0.037	2:14:09 PM	10/24/2011 14:14	0.037
17220	0.033	0.034	0.034	0.035	2:15:09 PM	10/24/2011 14:15	0.036
17280	0.069	0.072	0.078	0.091	2:16:09 PM	10/24/2011 14:16	0.094
17340	0.045	0.045	0.046	0.047	2:17:09 PM	10/24/2011 14:17	0.048
17400	0.041	0.042	0.042	0.043	2:18:09 PM	10/24/2011 14:18	0.043
17460	0.036	0.036	0.037	0.038	2:19:09 PM	10/24/2011 14:19	0.039
17520	0.041	0.042	0.043	0.046	2:20:09 PM	10/24/2011 14:20	0.047
17580	0.036	0.036	0.037	0.037	2:21:09 PM	10/24/2011 14:21	0.037
17640	0.037	0.037	0.037	0.038	2:22:09 PM	10/24/2011 14:22	0.038
17700	0.032	0.032	0.033	0.033	2:23:09 PM	10/24/2011 14:23	0.033
17760	0.04	0.04	0.04	0.04	2:24:09 PM	10/24/2011 14:24	0.04
17820	0.044	0.045	0.046	0.048	2:25:09 PM	10/24/2011 14:25	0.048
17880	0.062	0.062	0.064	0.069	2:26:09 PM	10/24/2011 14:26	0.072
17940	0.05	0.051	0.053	0.062	2:27:09 PM	10/24/2011 14:27	0.068
18000	0.035	0.035	0.036	0.037	2:28:09 PM	10/24/2011 14:28	0.04
18060	0.047	0.048	0.05	0.061	2:29:09 PM	10/24/2011 14:29	0.069
18120	0.052	0.053	0.056	0.069	2:30:09 PM	10/24/2011 14:30	0.076
18180	0.057	0.059	0.062	0.074	2:31:09 PM	10/24/2011 14:31	0.081
18240	0.041	0.041	0.043	0.05	2:32:09 PM	10/24/2011 14:32	0.055
18300	0.042	0.043	0.045	0.051	2:33:09 PM	10/24/2011 14:33	0.055
18360	0.035	0.035	0.036	0.039	2:34:09 PM	10/24/2011 14:34	0.041
18420	0.045	0.046	0.047	0.056	2:35:09 PM	10/24/2011 14:35	0.061
18480	0.038	0.039	0.04	0.046	2:36:09 PM	10/24/2011 14:36	0.049
18540	0.035	0.036	0.037	0.042	2:37:09 PM	10/24/2011 14:37	0.045
18600	0.038	0.038	0.04	0.045	2:38:09 PM	10/24/2011 14:38	0.048
18660	0.038	0.039	0.04	0.046	2:39:09 PM	10/24/2011 14:39	0.05
18720	0.07	0.072	0.077	0.098	2:40:09 PM	10/24/2011 14:40	0.109
18780	0.054	0.055	0.058	0.064	2:41:09 PM	10/24/2011 14:41	0.066
18840	0.048	0.049	0.05	0.054	2:42:09 PM	10/24/2011 14:42	0.054
18900	0.046	0.047	0.048	0.051	2:43:09 PM	10/24/2011 14:43	0.051
18960	0.042	0.042	0.043	0.045	2:44:09 PM	10/24/2011 14:44	0.045
19020	0.036	0.036	0.036	0.037	2:45:09 PM	10/24/2011 14:45	0.037
19080	0.036	0.037	0.037	0.038	2:46:09 PM	10/24/2011 14:46	0.039
19140	0.036	0.036	0.036	0.037	2:47:09 PM	10/24/2011 14:47	0.037
19200	0.041	0.041	0.041	0.042	2:48:09 PM	10/24/2011 14:48	0.042
19260	0.044	0.045	0.045	0.046	2:49:09 PM	10/24/2011 14:49	0.046
19320	0.039	0.039	0.04	0.041	2:50:09 PM	10/24/2011 14:50	0.041
19380	0.038	0.038	0.039	0.039	2:51:09 PM	10/24/2011 14:51	0.039
19440	0.044	0.045	0.047	0.05	2:52:09 PM	10/24/2011 14:52	0.05
19500	0.054	0.055	0.056	0.059	2:53:09 PM	10/24/2011 14:53	0.059
19560	0.041	0.042	0.042	0.043	2:54:09 PM	10/24/2011 14:54	0.043
19620	0.037	0.038	0.038	0.039	2:55:09 PM	10/24/2011 14:55	0.039

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_007
Test Start Time	9:29:15 AM
Test Start Date	10/25/2011
Test Length [D:H:M]	0:05:04
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.023
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.117
PM1 TWA [mg/m3]	0.015
PM2.5 Average [mg/m3]	0.024
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.118
PM2.5 TWA [mg/m3]	0.015
PM4 Average [mg/m3]	0.025
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.122
PM4 TWA [mg/m3]	0.016
PM10 Average [mg/m3]	0.03
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.157
PM10 TWA [mg/m3]	0.019
TOTAL Average [mg/m3]	0.031
TOTAL Minimum [mg/m3]	0.007
TOTAL Maximum [mg/m3]	0.168
TOTAL TWA [mg/m3]	0.019
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	304



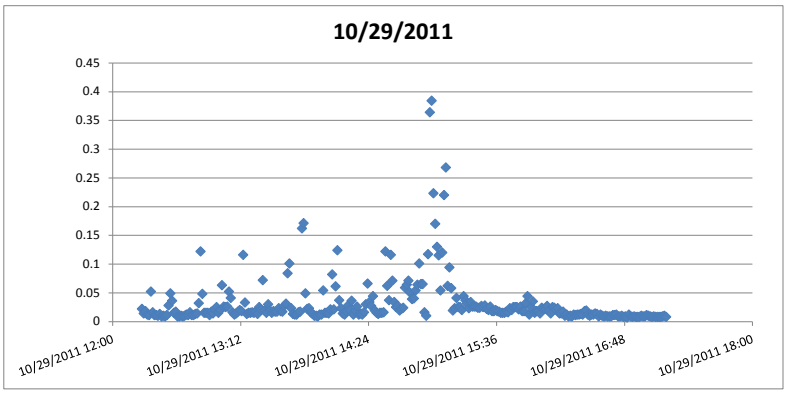
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:29:15 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.112	0.114	0.121	0.157	9:30:15 AM	10/25/2011 9:30	0.168		
120	0.029	0.03	0.031	0.032	9:31:15 AM	10/25/2011 9:31	0.033		
180	0.037	0.038	0.039	0.042	9:32:15 AM	10/25/2011 9:32	0.042		
240	0.03	0.031	0.032	0.034	9:33:15 AM	10/25/2011 9:33	0.035		
300	0.029	0.029	0.03	0.032	9:34:15 AM	10/25/2011 9:34	0.033		
360	0.023	0.023	0.023	0.025	9:35:15 AM	10/25/2011 9:35	0.025		
420	0.028	0.029	0.03	0.032	9:36:15 AM	10/25/2011 9:36	0.033		
480	0.029	0.03	0.032	0.034	9:37:15 AM	10/25/2011 9:37	0.034		
540	0.037	0.038	0.042	0.052	9:38:15 AM	10/25/2011 9:38	0.054		
600	0.036	0.038	0.042	0.051	9:39:15 AM	10/25/2011 9:39	0.052		
660	0.033	0.034	0.037	0.046	9:40:15 AM	10/25/2011 9:40	0.048		
720	0.037	0.039	0.042	0.051	9:41:15 AM	10/25/2011 9:41	0.051		
780	0.028	0.029	0.03	0.034	9:42:15 AM	10/25/2011 9:42	0.035		
840	0.025	0.026	0.027	0.029	9:43:15 AM	10/25/2011 9:43	0.03		
900	0.038	0.039	0.042	0.047	9:44:15 AM	10/25/2011 9:44	0.047		
960	0.041	0.042	0.045	0.051	9:45:15 AM	10/25/2011 9:45	0.052		
1020	0.023	0.024	0.024	0.026	9:46:15 AM	10/25/2011 9:46	0.026		
1080	0.022	0.022	0.023	0.026	9:47:15 AM	10/25/2011 9:47	0.026		
1140	0.022	0.022	0.023	0.025	9:48:15 AM	10/25/2011 9:48	0.025		
1200	0.027	0.028	0.03	0.032	9:49:15 AM	10/25/2011 9:49	0.032		
1260	0.023	0.023	0.025	0.028	9:50:15 AM	10/25/2011 9:50	0.029		
1320	0.028	0.028	0.03	0.034	9:51:15 AM	10/25/2011 9:51	0.035		
1380	0.044	0.046	0.053	0.062	9:52:15 AM	10/25/2011 9:52	0.064		
1440	0.034	0.036	0.039	0.046	9:53:15 AM	10/25/2011 9:53	0.048		
1500	0.039	0.04	0.044	0.058	9:54:15 AM	10/25/2011 9:54	0.06		
1560	0.026	0.027	0.029	0.034	9:55:15 AM	10/25/2011 9:55	0.035		
1620	0.034	0.035	0.037	0.042	9:56:15 AM	10/25/2011 9:56	0.042		
1680	0.032	0.034	0.036	0.044	9:57:15 AM	10/25/2011 9:57	0.045		
1740	0.034	0.035	0.038	0.044	9:58:15 AM	10/25/2011 9:58	0.045		
1800	0.055	0.056	0.06	0.066	9:59:15 AM	10/25/2011 9:59	0.067		
1860	0.049	0.051	0.055	0.063	10:00:15 AM	10/25/2011 10:00	0.064		
1920	0.027	0.028	0.03	0.035	10:01:15 AM	10/25/2011 10:01	0.035		
1980	0.036	0.038	0.041	0.048	10:02:15 AM	10/25/2011 10:02	0.048		
2040	0.034	0.036	0.039	0.046	10:03:15 AM	10/25/2011 10:03	0.047		
2100	0.028	0.029	0.032	0.037	10:04:15 AM	10/25/2011 10:04	0.039		
2160	0.039	0.041	0.045	0.052	10:05:15 AM	10/25/2011 10:05	0.053		
2220	0.022	0.023	0.024	0.026	10:06:15 AM	10/25/2011 10:06	0.028		
2280	0.024	0.024	0.026	0.029	10:07:15 AM	10/25/2011 10:07	0.03		
2340	0.023	0.023	0.025	0.029	10:08:15 AM	10/25/2011 10:08	0.03		
2400	0.026	0.027	0.029	0.035	10:09:15 AM	10/25/2011 10:09	0.036		
2460	0.033	0.034	0.036	0.046	10:10:15 AM	10/25/2011 10:10	0.049		
2520	0.076	0.078	0.083	0.103	10:11:15 AM	10/25/2011 10:11	0.111		
2580	0.023	0.024	0.026	0.03	10:12:15 AM	10/25/2011 10:12	0.032		
2640	0.022	0.022	0.023	0.026	10:13:15 AM	10/25/2011 10:13	0.026		
2700	0.022	0.022	0.023	0.026	10:14:15 AM	10/25/2011 10:14	0.026		
2760	0.04	0.041	0.044	0.053	10:15:15 AM	10/25/2011 10:15	0.055		
2820	0.032	0.033	0.035	0.038	10:16:15 AM	10/25/2011 10:16	0.039		
2880	0.022	0.022	0.024	0.026	10:17:15 AM	10/25/2011 10:17	0.027		
2940	0.023	0.024	0.025	0.027	10:18:15 AM	10/25/2011 10:18	0.027		
3000	0.022	0.022	0.023	0.025	10:19:15 AM	10/25/2011 10:19	0.026		
3060	0.019	0.019	0.02	0.021	10:20:15 AM	10/25/2011 10:20	0.021		
3120	0.034	0.035	0.038	0.045	10:21:15 AM	10/25/2011 10:21	0.048		
3180	0.028	0.029	0.031	0.035	10:22:15 AM	10/25/2011 10:22	0.035		
3240	0.022	0.022	0.024	0.028	10:23:15 AM	10/25/2011 10:23	0.028		

3300	0.028	0.029	0.032	0.038	10:24:15 AM	10/25/2011 10:24	0.038
3360	0.023	0.023	0.025	0.03	10:25:15 AM	10/25/2011 10:25	0.031
3420	0.023	0.024	0.026	0.03	10:26:15 AM	10/25/2011 10:26	0.031
3480	0.035	0.036	0.038	0.046	10:27:15 AM	10/25/2011 10:27	0.048
3540	0.015	0.016	0.017	0.02	10:28:15 AM	10/25/2011 10:28	0.02
3600	0.017	0.018	0.019	0.022	10:29:15 AM	10/25/2011 10:29	0.022
3660	0.017	0.018	0.019	0.023	10:30:15 AM	10/25/2011 10:30	0.023
3720	0.019	0.02	0.021	0.025	10:31:15 AM	10/25/2011 10:31	0.026
3780	0.038	0.04	0.044	0.057	10:32:15 AM	10/25/2011 10:32	0.061
3840	0.019	0.02	0.022	0.025	10:33:15 AM	10/25/2011 10:33	0.028
3900	0.021	0.022	0.023	0.028	10:34:15 AM	10/25/2011 10:34	0.029
3960	0.028	0.029	0.032	0.041	10:35:15 AM	10/25/2011 10:35	0.041
4020	0.024	0.025	0.028	0.035	10:36:15 AM	10/25/2011 10:36	0.035
4080	0.022	0.023	0.026	0.034	10:37:15 AM	10/25/2011 10:37	0.035
4140	0.031	0.033	0.038	0.048	10:38:15 AM	10/25/2011 10:38	0.05
4200	0.018	0.019	0.021	0.027	10:39:15 AM	10/25/2011 10:39	0.027
4260	0.012	0.013	0.013	0.015	10:40:15 AM	10/25/2011 10:40	0.015
4320	0.016	0.017	0.019	0.025	10:41:15 AM	10/25/2011 10:41	0.029
4380	0.023	0.024	0.026	0.031	10:42:15 AM	10/25/2011 10:42	0.032
4440	0.017	0.018	0.019	0.022	10:43:15 AM	10/25/2011 10:43	0.023
4500	0.035	0.035	0.037	0.041	10:44:15 AM	10/25/2011 10:44	0.043
4560	0.024	0.025	0.027	0.031	10:45:15 AM	10/25/2011 10:45	0.032
4620	0.013	0.013	0.014	0.017	10:46:15 AM	10/25/2011 10:46	0.017
4680	0.032	0.033	0.034	0.038	10:47:15 AM	10/25/2011 10:47	0.039
4740	0.032	0.034	0.037	0.049	10:48:15 AM	10/25/2011 10:48	0.051
4800	0.023	0.024	0.027	0.031	10:49:15 AM	10/25/2011 10:49	0.032
4860	0.024	0.025	0.027	0.033	10:50:15 AM	10/25/2011 10:50	0.033
4920	0.021	0.022	0.024	0.029	10:51:15 AM	10/25/2011 10:51	0.03
4980	0.027	0.029	0.032	0.039	10:52:15 AM	10/25/2011 10:52	0.04
5040	0.019	0.019	0.021	0.024	10:53:15 AM	10/25/2011 10:53	0.026
5100	0.018	0.019	0.02	0.022	10:54:15 AM	10/25/2011 10:54	0.022
5160	0.034	0.035	0.036	0.039	10:55:15 AM	10/25/2011 10:55	0.039
5220	0.018	0.019	0.02	0.023	10:56:15 AM	10/25/2011 10:56	0.024
5280	0.012	0.012	0.013	0.015	10:57:15 AM	10/25/2011 10:57	0.016
5340	0.012	0.012	0.013	0.014	10:58:15 AM	10/25/2011 10:58	0.014
5400	0.016	0.017	0.018	0.021	10:59:15 AM	10/25/2011 10:59	0.021
5460	0.016	0.017	0.018	0.02	11:00:15 AM	10/25/2011 11:00	0.02
5520	0.022	0.023	0.024	0.03	11:01:15 AM	10/25/2011 11:01	0.03
5580	0.015	0.015	0.016	0.017	11:02:15 AM	10/25/2011 11:02	0.017
5640	0.015	0.015	0.016	0.017	11:03:15 AM	10/25/2011 11:03	0.018
5700	0.012	0.012	0.013	0.013	11:04:15 AM	10/25/2011 11:04	0.013
5760	0.026	0.027	0.027	0.029	11:05:15 AM	10/25/2011 11:05	0.03
5820	0.013	0.013	0.013	0.014	11:06:15 AM	10/25/2011 11:06	0.014
5880	0.018	0.019	0.019	0.022	11:07:15 AM	10/25/2011 11:07	0.022
5940	0.018	0.018	0.02	0.024	11:08:15 AM	10/25/2011 11:08	0.026
6000	0.026	0.027	0.029	0.035	11:09:15 AM	10/25/2011 11:09	0.035
6060	0.03	0.031	0.032	0.035	11:10:15 AM	10/25/2011 11:10	0.035
6120	0.027	0.028	0.03	0.034	11:11:15 AM	10/25/2011 11:11	0.035
6180	0.04	0.042	0.046	0.053	11:12:15 AM	10/25/2011 11:12	0.053
6240	0.022	0.022	0.024	0.027	11:13:15 AM	10/25/2011 11:13	0.028
6300	0.117	0.118	0.122	0.134	11:14:15 AM	10/25/2011 11:14	0.141
6360	0.015	0.015	0.016	0.018	11:15:15 AM	10/25/2011 11:15	0.018
6420	0.014	0.014	0.015	0.016	11:16:15 AM	10/25/2011 11:16	0.017
6480	0.02	0.02	0.021	0.026	11:17:15 AM	10/25/2011 11:17	0.026
6540	0.046	0.049	0.055	0.067	11:18:15 AM	10/25/2011 11:18	0.069
6600	0.04	0.042	0.045	0.052	11:19:15 AM	10/25/2011 11:19	0.053
6660	0.039	0.041	0.045	0.052	11:20:15 AM	10/25/2011 11:20	0.054
6720	0.017	0.017	0.019	0.022	11:21:15 AM	10/25/2011 11:21	0.023
6780	0.014	0.014	0.015	0.016	11:22:15 AM	10/25/2011 11:22	0.017
6840	0.011	0.011	0.012	0.013	11:23:15 AM	10/25/2011 11:23	0.013
6900	0.016	0.016	0.017	0.019	11:24:15 AM	10/25/2011 11:24	0.02
6960	0.032	0.033	0.036	0.043	11:25:15 AM	10/25/2011 11:25	0.043
7020	0.037	0.039	0.043	0.054	11:26:15 AM	10/25/2011 11:26	0.057
7080	0.017	0.018	0.019	0.023	11:27:15 AM	10/25/2011 11:27	0.023
7140	0.014	0.015	0.016	0.019	11:28:15 AM	10/25/2011 11:28	0.02
7200	0.012	0.012	0.013	0.015	11:29:15 AM	10/25/2011 11:29	0.015
7260	0.013	0.013	0.014	0.016	11:30:15 AM	10/25/2011 11:30	0.016
7320	0.016	0.017	0.018	0.021	11:31:15 AM	10/25/2011 11:31	0.022
7380	0.022	0.023	0.026	0.031	11:32:15 AM	10/25/2011 11:32	0.032
7440	0.016	0.017	0.018	0.022	11:33:15 AM	10/25/2011 11:33	0.024
7500	0.013	0.014	0.015	0.017	11:34:15 AM	10/25/2011 11:34	0.017
7560	0.014	0.014	0.015	0.018	11:35:15 AM	10/25/2011 11:35	0.018
7620	0.012	0.012	0.013	0.014	11:36:15 AM	10/25/2011 11:36	0.014
7680	0.013	0.013	0.014	0.015	11:37:15 AM	10/25/2011 11:37	0.016
7740	0.012	0.012	0.012	0.013	11:38:15 AM	10/25/2011 11:38	0.013
7800	0.014	0.014	0.015	0.016	11:39:15 AM	10/25/2011 11:39	0.017
7860	0.017	0.018	0.019	0.022	11:40:15 AM	10/25/2011 11:40	0.022
7920	0.024	0.025	0.027	0.031	11:41:15 AM	10/25/2011 11:41	0.032
7980	0.011	0.011	0.012	0.012	11:42:15 AM	10/25/2011 11:42	0.012
8040	0.017	0.017	0.018	0.02	11:43:15 AM	10/25/2011 11:43	0.02
8100	0.011	0.012	0.012	0.014	11:44:15 AM	10/25/2011 11:44	0.014
8160	0.013	0.013	0.014	0.016	11:45:15 AM	10/25/2011 11:45	0.016
8220	0.014	0.015	0.016	0.02	11:46:15 AM	10/25/2011 11:46	0.02
8280	0.02	0.021	0.022	0.026	11:47:15 AM	10/25/2011 11:47	0.028
8340	0.019	0.021	0.023	0.027	11:48:15 AM	10/25/2011 11:48	0.028
8400	0.023	0.024	0.027	0.033	11:49:15 AM	10/25/2011 11:49	0.034
8460	0.047	0.048	0.051	0.06	11:50:15 AM	10/25/2011 11:50	0.061
8520	0.029	0.03	0.033	0.038	11:51:15 AM	10/25/2011 11:51	0.038
8580	0.021	0.021	0.023	0.026	11:52:15 AM	10/25/2011 11:52	0.027
8640	0.024	0.025	0.028	0.034	11:53:15 AM	10/25/2011 11:53	0.035
8700	0.028	0.029	0.032	0.042	11:54:15 AM	10/25/2011 11:54	0.043

8760	0.016	0.016	0.018	0.023	11:55:15 AM	10/25/2011 11:55	0.023
8820	0.018	0.018	0.02	0.025	11:56:15 AM	10/25/2011 11:56	0.026
8880	0.014	0.015	0.016	0.019	11:57:15 AM	10/25/2011 11:57	0.02
8940	0.03	0.032	0.034	0.042	11:58:15 AM	10/25/2011 11:58	0.043
9000	0.049	0.052	0.057	0.069	11:59:15 AM	10/25/2011 11:59	0.07
9060	0.018	0.019	0.02	0.024	12:00:15 PM	10/25/2011 12:00	0.025
9120	0.015	0.016	0.016	0.018	12:01:15 PM	10/25/2011 12:01	0.019
9180	0.02	0.02	0.022	0.026	12:02:15 PM	10/25/2011 12:02	0.026
9240	0.018	0.019	0.02	0.024	12:03:15 PM	10/25/2011 12:03	0.025
9300	0.035	0.037	0.041	0.052	12:04:15 PM	10/25/2011 12:04	0.052
9360	0.034	0.035	0.037	0.04	12:05:15 PM	10/25/2011 12:05	0.04
9420	0.017	0.018	0.019	0.022	12:06:15 PM	10/25/2011 12:06	0.023
9480	0.023	0.024	0.026	0.03	12:07:15 PM	10/25/2011 12:07	0.03
9540	0.017	0.018	0.019	0.022	12:08:15 PM	10/25/2011 12:08	0.022
9600	0.02	0.021	0.022	0.025	12:09:15 PM	10/25/2011 12:09	0.025
9660	0.038	0.04	0.045	0.056	12:10:15 PM	10/25/2011 12:10	0.057
9720	0.101	0.106	0.117	0.139	12:11:15 PM	10/25/2011 12:11	0.142
9780	0.045	0.047	0.05	0.056	12:12:15 PM	10/25/2011 12:12	0.056
9840	0.082	0.084	0.088	0.106	12:13:15 PM	10/25/2011 12:13	0.113
9900	0.026	0.027	0.029	0.034	12:14:15 PM	10/25/2011 12:14	0.034
9960	0.021	0.021	0.022	0.025	12:15:15 PM	10/25/2011 12:15	0.025
10020	0.015	0.016	0.018	0.02	12:16:15 PM	10/25/2011 12:16	0.021
10080	0.013	0.013	0.014	0.016	12:17:15 PM	10/25/2011 12:17	0.016
10140	0.019	0.02	0.022	0.026	12:18:15 PM	10/25/2011 12:18	0.026
10200	0.017	0.018	0.02	0.026	12:19:15 PM	10/25/2011 12:19	0.026
10260	0.023	0.024	0.027	0.035	12:20:15 PM	10/25/2011 12:20	0.037
10320	0.025	0.026	0.029	0.034	12:21:15 PM	10/25/2011 12:21	0.035
10380	0.034	0.036	0.04	0.048	12:22:15 PM	10/25/2011 12:22	0.05
10440	0.016	0.016	0.018	0.021	12:23:15 PM	10/25/2011 12:23	0.021
10500	0.009	0.009	0.01	0.012	12:24:15 PM	10/25/2011 12:24	0.012
10560	0.011	0.012	0.012	0.013	12:25:15 PM	10/25/2011 12:25	0.013
10620	0.016	0.016	0.018	0.019	12:26:15 PM	10/25/2011 12:26	0.02
10680	0.017	0.019	0.02	0.025	12:27:15 PM	10/25/2011 12:27	0.025
10740	0.016	0.017	0.019	0.023	12:28:15 PM	10/25/2011 12:28	0.023
10800	0.011	0.011	0.012	0.013	12:29:15 PM	10/25/2011 12:29	0.013
10860	0.016	0.016	0.018	0.02	12:30:15 PM	10/25/2011 12:30	0.02
10920	0.015	0.016	0.017	0.018	12:31:15 PM	10/25/2011 12:31	0.018
10980	0.012	0.012	0.013	0.014	12:32:15 PM	10/25/2011 12:32	0.014
11040	0.01	0.011	0.011	0.013	12:33:15 PM	10/25/2011 12:33	0.013
11100	0.012	0.012	0.013	0.014	12:34:15 PM	10/25/2011 12:34	0.015
11160	0.019	0.02	0.022	0.026	12:35:15 PM	10/25/2011 12:35	0.027
11220	0.023	0.024	0.027	0.034	12:36:15 PM	10/25/2011 12:36	0.034
11280	0.013	0.014	0.014	0.018	12:37:15 PM	10/25/2011 12:37	0.018
11340	0.019	0.02	0.021	0.025	12:38:15 PM	10/25/2011 12:38	0.025
11400	0.033	0.034	0.038	0.046	12:39:15 PM	10/25/2011 12:39	0.046
11460	0.014	0.015	0.016	0.019	12:40:15 PM	10/25/2011 12:40	0.02
11520	0.015	0.016	0.017	0.019	12:41:15 PM	10/25/2011 12:41	0.02
11580	0.017	0.018	0.018	0.019	12:42:15 PM	10/25/2011 12:42	0.019
11640	0.009	0.009	0.009	0.01	12:43:15 PM	10/25/2011 12:43	0.01
11700	0.006	0.007	0.007	0.007	12:44:15 PM	10/25/2011 12:44	0.007
11760	0.009	0.009	0.009	0.01	12:45:15 PM	10/25/2011 12:45	0.01
11820	0.013	0.014	0.015	0.019	12:46:15 PM	10/25/2011 12:46	0.021
11880	0.018	0.019	0.021	0.026	12:47:15 PM	10/25/2011 12:47	0.027
11940	0.013	0.013	0.014	0.016	12:48:15 PM	10/25/2011 12:48	0.017
12000	0.011	0.012	0.013	0.014	12:49:15 PM	10/25/2011 12:49	0.014
12060	0.013	0.014	0.015	0.019	12:50:15 PM	10/25/2011 12:50	0.02
12120	0.011	0.012	0.012	0.014	12:51:15 PM	10/25/2011 12:51	0.014
12180	0.014	0.014	0.015	0.017	12:52:15 PM	10/25/2011 12:52	0.017
12240	0.017	0.017	0.018	0.019	12:53:15 PM	10/25/2011 12:53	0.019
12300	0.013	0.014	0.014	0.015	12:54:15 PM	10/25/2011 12:54	0.016
12360	0.012	0.012	0.013	0.014	12:55:15 PM	10/25/2011 12:55	0.015
12420	0.011	0.011	0.012	0.013	12:56:15 PM	10/25/2011 12:56	0.014
12480	0.009	0.01	0.01	0.012	12:57:15 PM	10/25/2011 12:57	0.012
12540	0.015	0.016	0.017	0.019	12:58:15 PM	10/25/2011 12:58	0.02
12600	0.011	0.011	0.012	0.013	12:59:15 PM	10/25/2011 12:59	0.014
12660	0.013	0.013	0.014	0.016	1:00:15 PM	10/25/2011 13:00	0.016
12720	0.016	0.016	0.018	0.02	1:01:15 PM	10/25/2011 13:01	0.02
12780	0.011	0.011	0.012	0.013	1:02:15 PM	10/25/2011 13:02	0.013
12840	0.035	0.037	0.039	0.042	1:03:15 PM	10/25/2011 13:03	0.043
12900	0.011	0.012	0.012	0.013	1:04:15 PM	10/25/2011 13:04	0.013
12960	0.014	0.015	0.015	0.017	1:05:15 PM	10/25/2011 13:05	0.017
13020	0.013	0.014	0.015	0.016	1:06:15 PM	10/25/2011 13:06	0.016
13080	0.01	0.011	0.011	0.012	1:07:15 PM	10/25/2011 13:07	0.012
13140	0.012	0.012	0.013	0.014	1:08:15 PM	10/25/2011 13:08	0.014
13200	0.013	0.013	0.014	0.015	1:09:15 PM	10/25/2011 13:09	0.016
13260	0.013	0.014	0.015	0.017	1:10:15 PM	10/25/2011 13:10	0.017
13320	0.014	0.015	0.016	0.018	1:11:15 PM	10/25/2011 13:11	0.019
13380	0.012	0.012	0.013	0.015	1:12:15 PM	10/25/2011 13:12	0.016
13440	0.01	0.01	0.011	0.014	1:13:15 PM	10/25/2011 13:13	0.014
13500	0.012	0.012	0.013	0.014	1:14:15 PM	10/25/2011 13:14	0.015
13560	0.011	0.011	0.011	0.013	1:15:15 PM	10/25/2011 13:15	0.013
13620	0.011	0.011	0.011	0.012	1:16:15 PM	10/25/2011 13:16	0.012
13680	0.012	0.012	0.012	0.014	1:17:15 PM	10/25/2011 13:17	0.014
13740	0.015	0.016	0.017	0.021	1:18:15 PM	10/25/2011 13:18	0.022
13800	0.013	0.014	0.014	0.017	1:19:15 PM	10/25/2011 13:19	0.018
13860	0.026	0.027	0.03	0.039	1:20:15 PM	10/25/2011 13:20	0.04
13920	0.016	0.017	0.018	0.021	1:21:15 PM	10/25/2011 13:21	0.023
13980	0.011	0.012	0.013	0.014	1:22:15 PM	10/25/2011 13:22	0.015
14040	0.017	0.018	0.019	0.021	1:23:15 PM	10/25/2011 13:23	0.022
14100	0.023	0.024	0.026	0.032	1:24:15 PM	10/25/2011 13:24	0.034
14160	0.018	0.018	0.019	0.023	1:25:15 PM	10/25/2011 13:25	0.024

14220	0.028	0.029	0.03	0.035	1:26:15 PM	10/25/2011 13:26	0.035
14280	0.014	0.015	0.016	0.018	1:27:15 PM	10/25/2011 13:27	0.019
14340	0.013	0.014	0.015	0.016	1:28:15 PM	10/25/2011 13:28	0.016
14400	0.012	0.012	0.013	0.014	1:29:15 PM	10/25/2011 13:29	0.015
14460	0.013	0.014	0.015	0.018	1:30:15 PM	10/25/2011 13:30	0.018
14520	0.012	0.012	0.013	0.016	1:31:15 PM	10/25/2011 13:31	0.017
14580	0.023	0.025	0.028	0.036	1:32:15 PM	10/25/2011 13:32	0.038
14640	0.025	0.026	0.03	0.04	1:33:15 PM	10/25/2011 13:33	0.041
14700	0.021	0.022	0.023	0.028	1:34:15 PM	10/25/2011 13:34	0.029
14760	0.013	0.014	0.015	0.018	1:35:15 PM	10/25/2011 13:35	0.018
14820	0.018	0.019	0.02	0.025	1:36:15 PM	10/25/2011 13:36	0.025
14880	0.026	0.028	0.031	0.038	1:37:15 PM	10/25/2011 13:37	0.039
14940	0.016	0.017	0.018	0.023	1:38:15 PM	10/25/2011 13:38	0.023
15000	0.015	0.016	0.017	0.02	1:39:15 PM	10/25/2011 13:39	0.021
15060	0.069	0.071	0.075	0.093	1:40:15 PM	10/25/2011 13:40	0.103
15120	0.022	0.023	0.025	0.029	1:41:15 PM	10/25/2011 13:41	0.03
15180	0.027	0.029	0.032	0.037	1:42:15 PM	10/25/2011 13:42	0.038
15240	0.013	0.014	0.015	0.019	1:43:15 PM	10/25/2011 13:43	0.019
15300	0.047	0.049	0.054	0.073	1:44:15 PM	10/25/2011 13:44	0.077
15360	0.052	0.055	0.06	0.079	1:45:15 PM	10/25/2011 13:45	0.084
15420	0.025	0.026	0.029	0.036	1:46:15 PM	10/25/2011 13:46	0.037
15480	0.025	0.027	0.029	0.036	1:47:15 PM	10/25/2011 13:47	0.039
15540	0.025	0.027	0.03	0.037	1:48:15 PM	10/25/2011 13:48	0.039
15600	0.014	0.015	0.017	0.022	1:49:15 PM	10/25/2011 13:49	0.023
15660	0.025	0.026	0.028	0.033	1:50:15 PM	10/25/2011 13:50	0.035
15720	0.017	0.018	0.019	0.023	1:51:15 PM	10/25/2011 13:51	0.024
15780	0.02	0.021	0.023	0.027	1:52:15 PM	10/25/2011 13:52	0.028
15840	0.021	0.022	0.024	0.028	1:53:15 PM	10/25/2011 13:53	0.029
15900	0.02	0.021	0.022	0.025	1:54:15 PM	10/25/2011 13:54	0.025
15960	0.111	0.112	0.115	0.13	1:55:15 PM	10/25/2011 13:55	0.136
16020	0.01	0.01	0.011	0.013	1:56:15 PM	10/25/2011 13:56	0.013
16080	0.011	0.012	0.012	0.013	1:57:15 PM	10/25/2011 13:57	0.014
16140	0.017	0.018	0.019	0.022	1:58:15 PM	10/25/2011 13:58	0.022
16200	0.018	0.019	0.021	0.023	1:59:15 PM	10/25/2011 13:59	0.023
16260	0.022	0.022	0.024	0.026	2:00:15 PM	10/25/2011 14:00	0.026
16320	0.021	0.022	0.023	0.025	2:01:15 PM	10/25/2011 14:01	0.025
16380	0.012	0.012	0.013	0.014	2:02:15 PM	10/25/2011 14:02	0.015
16440	0.012	0.012	0.013	0.015	2:03:15 PM	10/25/2011 14:03	0.016
16500	0.015	0.015	0.016	0.019	2:04:15 PM	10/25/2011 14:04	0.02
16560	0.016	0.017	0.018	0.02	2:05:15 PM	10/25/2011 14:05	0.02
16620	0.013	0.014	0.015	0.016	2:06:15 PM	10/25/2011 14:06	0.017
16680	0.022	0.023	0.025	0.027	2:07:15 PM	10/25/2011 14:07	0.028
16740	0.012	0.013	0.014	0.015	2:08:15 PM	10/25/2011 14:08	0.015
16800	0.02	0.021	0.022	0.024	2:09:15 PM	10/25/2011 14:09	0.024
16860	0.016	0.017	0.018	0.019	2:10:15 PM	10/25/2011 14:10	0.02
16920	0.016	0.016	0.017	0.018	2:11:15 PM	10/25/2011 14:11	0.02
16980	0.026	0.026	0.028	0.031	2:12:15 PM	10/25/2011 14:12	0.031
17040	0.02	0.02	0.021	0.025	2:13:15 PM	10/25/2011 14:13	0.026
17100	0.011	0.012	0.012	0.014	2:14:15 PM	10/25/2011 14:14	0.014
17160	0.013	0.014	0.015	0.016	2:15:15 PM	10/25/2011 14:15	0.017
17220	0.017	0.018	0.02	0.023	2:16:15 PM	10/25/2011 14:16	0.024
17280	0.024	0.025	0.026	0.028	2:17:15 PM	10/25/2011 14:17	0.028
17340	0.017	0.018	0.019	0.021	2:18:15 PM	10/25/2011 14:18	0.021
17400	0.037	0.039	0.041	0.046	2:19:15 PM	10/25/2011 14:19	0.047
17460	0.032	0.034	0.037	0.042	2:20:15 PM	10/25/2011 14:20	0.042
17520	0.02	0.021	0.022	0.024	2:21:15 PM	10/25/2011 14:21	0.024
17580	0.018	0.019	0.019	0.021	2:22:15 PM	10/25/2011 14:22	0.021
17640	0.013	0.013	0.014	0.015	2:23:15 PM	10/25/2011 14:23	0.015
17700	0.014	0.015	0.015	0.017	2:24:15 PM	10/25/2011 14:24	0.017
17760	0.013	0.014	0.014	0.015	2:25:15 PM	10/25/2011 14:25	0.015
17820	0.015	0.016	0.017	0.018	2:26:15 PM	10/25/2011 14:26	0.018
17880	0.013	0.013	0.014	0.015	2:27:15 PM	10/25/2011 14:27	0.015
17940	0.017	0.018	0.019	0.021	2:28:15 PM	10/25/2011 14:28	0.021
18000	0.015	0.016	0.017	0.018	2:29:15 PM	10/25/2011 14:29	0.018
18060	0.018	0.019	0.02	0.022	2:30:15 PM	10/25/2011 14:30	0.022
18120	0.016	0.017	0.018	0.02	2:31:15 PM	10/25/2011 14:31	0.02
18180	0.038	0.04	0.043	0.05	2:32:15 PM	10/25/2011 14:32	0.05
18240	0.024	0.025	0.026	0.03	2:33:15 PM	10/25/2011 14:33	0.031

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_001
Test Start Time	12:15:30 PM
Test Start Date	10/29/2011
Test Length [D:H:M]	0:04:56
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.019
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.134
PM1 TWA [mg/m3]	0.012
PM2.5 Average [mg/m3]	0.02
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.146
PM2.5 TWA [mg/m3]	0.012
PM4 Average [mg/m3]	0.021
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.181
PM4 TWA [mg/m3]	0.013
PM10 Average [mg/m3]	0.027
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.309
PM10 TWA [mg/m3]	0.017
TOTAL Average [mg/m3]	0.031
TOTAL Minimum [mg/m3]	0.007
TOTAL Maximum [mg/m3]	0.384
TOTAL TWA [mg/m3]	0.019
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	296



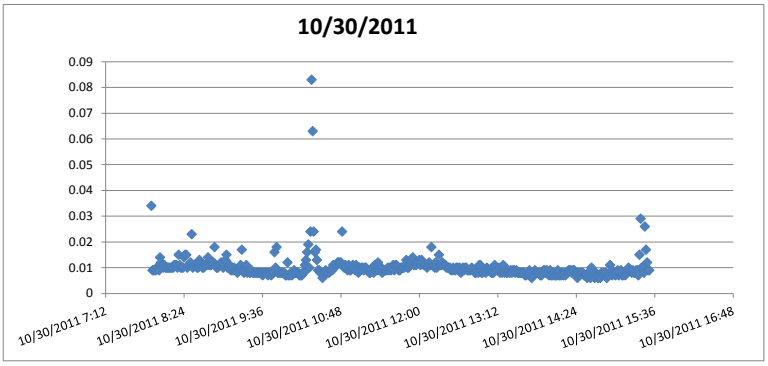
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	12:15:30 PM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.014	0.014	0.015	0.018	12:16:30 PM	10/29/2011 12:16	0.022		
120	0.012	0.012	0.012	0.013	12:17:30 PM	10/29/2011 12:17	0.014		
180	0.015	0.015	0.015	0.016	12:18:30 PM	10/29/2011 12:18	0.018		
240	0.011	0.011	0.011	0.012	12:19:30 PM	10/29/2011 12:19	0.012		
300	0.011	0.011	0.011	0.011	12:20:30 PM	10/29/2011 12:20	0.011		
360	0.029	0.029	0.031	0.041	12:21:30 PM	10/29/2011 12:21	0.052		
420	0.012	0.013	0.013	0.014	12:22:30 PM	10/29/2011 12:22	0.016		
480	0.01	0.01	0.01	0.011	12:23:30 PM	10/29/2011 12:23	0.011		
540	0.01	0.01	0.01	0.011	12:24:30 PM	10/29/2011 12:24	0.011		
600	0.01	0.01	0.01	0.01	12:25:30 PM	10/29/2011 12:25	0.01		
660	0.011	0.011	0.011	0.012	12:26:30 PM	10/29/2011 12:26	0.013		
720	0.008	0.008	0.008	0.009	12:27:30 PM	10/29/2011 12:27	0.009		
780	0.009	0.009	0.009	0.009	12:28:30 PM	10/29/2011 12:28	0.01		
840	0.008	0.008	0.009	0.009	12:29:30 PM	10/29/2011 12:29	0.009		
900	0.01	0.01	0.01	0.011	12:30:30 PM	10/29/2011 12:30	0.011		
960	0.018	0.018	0.019	0.022	12:31:30 PM	10/29/2011 12:31	0.028		
1020	0.026	0.027	0.028	0.036	12:32:30 PM	10/29/2011 12:32	0.049		
1080	0.022	0.023	0.024	0.031	12:33:30 PM	10/29/2011 12:33	0.036		
1140	0.014	0.014	0.015	0.015	12:34:30 PM	10/29/2011 12:34	0.015		
1200	0.016	0.016	0.016	0.017	12:35:30 PM	10/29/2011 12:35	0.017		
1260	0.009	0.009	0.009	0.009	12:36:30 PM	10/29/2011 12:36	0.009		
1320	0.008	0.008	0.008	0.008	12:37:30 PM	10/29/2011 12:37	0.009		
1380	0.009	0.009	0.009	0.01	12:38:30 PM	10/29/2011 12:38	0.01		
1440	0.008	0.008	0.008	0.009	12:39:30 PM	10/29/2011 12:39	0.009		
1500	0.009	0.009	0.009	0.01	12:40:30 PM	10/29/2011 12:40	0.01		
1560	0.01	0.01	0.01	0.011	12:41:30 PM	10/29/2011 12:41	0.012		
1620	0.01	0.01	0.01	0.011	12:42:30 PM	10/29/2011 12:42	0.011		
1680	0.014	0.014	0.014	0.015	12:43:30 PM	10/29/2011 12:43	0.016		
1740	0.011	0.011	0.011	0.011	12:44:30 PM	10/29/2011 12:44	0.011		
1800	0.01	0.011	0.011	0.011	12:45:30 PM	10/29/2011 12:45	0.011		
1860	0.013	0.013	0.013	0.013	12:46:30 PM	10/29/2011 12:46	0.013		
1920	0.012	0.012	0.012	0.013	12:47:30 PM	10/29/2011 12:47	0.014		
1980	0.025	0.025	0.026	0.029	12:48:30 PM	10/29/2011 12:48	0.032		
2040	0.106	0.107	0.108	0.113	12:49:30 PM	10/29/2011 12:49	0.122		
2100	0.022	0.023	0.025	0.036	12:50:30 PM	10/29/2011 12:50	0.048		
2160	0.013	0.014	0.014	0.015	12:51:30 PM	10/29/2011 12:51	0.015		
2220	0.013	0.013	0.013	0.014	12:52:30 PM	10/29/2011 12:52	0.015		
2280	0.013	0.013	0.013	0.014	12:53:30 PM	10/29/2011 12:53	0.015		
2340	0.01	0.011	0.011	0.011	12:54:30 PM	10/29/2011 12:54	0.011		
2400	0.015	0.015	0.016	0.016	12:55:30 PM	10/29/2011 12:55	0.017		
2460	0.012	0.012	0.013	0.014	12:56:30 PM	10/29/2011 12:56	0.014		
2520	0.02	0.02	0.021	0.021	12:57:30 PM	10/29/2011 12:57	0.021		
2580	0.023	0.024	0.024	0.025	12:58:30 PM	10/29/2011 12:58	0.025		
2640	0.014	0.014	0.015	0.015	12:59:30 PM	10/29/2011 12:59	0.015		
2700	0.015	0.015	0.016	0.017	1:00:30 PM	10/29/2011 13:00	0.02		
2760	0.03	0.031	0.033	0.045	1:01:30 PM	10/29/2011 13:01	0.063		
2820	0.019	0.019	0.02	0.023	1:02:30 PM	10/29/2011 13:02	0.026		
2880	0.021	0.022	0.022	0.024	1:03:30 PM	10/29/2011 13:03	0.025		
2940	0.023	0.024	0.024	0.025	1:04:30 PM	10/29/2011 13:04	0.026		
3000	0.043	0.047	0.048	0.05	1:05:30 PM	10/29/2011 13:05	0.052		
3060	0.033	0.035	0.036	0.039	1:06:30 PM	10/29/2011 13:06	0.041		
3120	0.014	0.014	0.014	0.015	1:07:30 PM	10/29/2011 13:07	0.016		
3180	0.011	0.012	0.012	0.012	1:08:30 PM	10/29/2011 13:08	0.012		
3240	0.012	0.013	0.013	0.013	1:09:30 PM	10/29/2011 13:09	0.014		

3300	0.017	0.017	0.017	0.017	1:10:30 PM	10/29/2011 13:10	0.017
3360	0.019	0.019	0.019	0.019	1:11:30 PM	10/29/2011 13:11	0.02
3420	0.016	0.017	0.017	0.018	1:12:30 PM	10/29/2011 13:12	0.018
3480	0.046	0.047	0.049	0.074	1:13:30 PM	10/29/2011 13:13	0.116
3540	0.019	0.019	0.02	0.024	1:14:30 PM	10/29/2011 13:14	0.033
3600	0.011	0.012	0.012	0.012	1:15:30 PM	10/29/2011 13:15	0.013
3660	0.014	0.014	0.014	0.015	1:16:30 PM	10/29/2011 13:16	0.015
3720	0.013	0.013	0.014	0.015	1:17:30 PM	10/29/2011 13:17	0.015
3780	0.012	0.013	0.013	0.014	1:18:30 PM	10/29/2011 13:18	0.016
3840	0.012	0.012	0.012	0.013	1:19:30 PM	10/29/2011 13:19	0.015
3900	0.012	0.013	0.013	0.015	1:20:30 PM	10/29/2011 13:20	0.017
3960	0.011	0.011	0.011	0.012	1:21:30 PM	10/29/2011 13:21	0.013
4020	0.019	0.02	0.02	0.023	1:22:30 PM	10/29/2011 13:22	0.025
4080	0.016	0.016	0.017	0.019	1:23:30 PM	10/29/2011 13:23	0.02
4140	0.031	0.031	0.034	0.051	1:24:30 PM	10/29/2011 13:24	0.072
4200	0.013	0.013	0.014	0.017	1:25:30 PM	10/29/2011 13:25	0.019
4260	0.011	0.012	0.012	0.013	1:26:30 PM	10/29/2011 13:26	0.015
4320	0.022	0.022	0.023	0.026	1:27:30 PM	10/29/2011 13:27	0.03
4380	0.016	0.016	0.016	0.018	1:28:30 PM	10/29/2011 13:28	0.019
4440	0.013	0.013	0.013	0.014	1:29:30 PM	10/29/2011 13:29	0.015
4500	0.016	0.016	0.017	0.018	1:30:30 PM	10/29/2011 13:30	0.018
4560	0.015	0.015	0.015	0.016	1:31:30 PM	10/29/2011 13:31	0.017
4620	0.015	0.015	0.015	0.016	1:32:30 PM	10/29/2011 13:32	0.017
4680	0.017	0.018	0.018	0.021	1:33:30 PM	10/29/2011 13:33	0.023
4740	0.016	0.016	0.016	0.017	1:34:30 PM	10/29/2011 13:34	0.018
4800	0.014	0.014	0.014	0.016	1:35:30 PM	10/29/2011 13:35	0.017
4860	0.023	0.024	0.024	0.026	1:36:30 PM	10/29/2011 13:36	0.027
4920	0.025	0.026	0.026	0.03	1:37:30 PM	10/29/2011 13:37	0.031
4980	0.042	0.043	0.045	0.06	1:38:30 PM	10/29/2011 13:38	0.084
5040	0.04	0.041	0.044	0.065	1:39:30 PM	10/29/2011 13:39	0.101
5100	0.018	0.019	0.019	0.021	1:40:30 PM	10/29/2011 13:40	0.023
5160	0.011	0.011	0.011	0.012	1:41:30 PM	10/29/2011 13:41	0.013
5220	0.01	0.011	0.011	0.012	1:42:30 PM	10/29/2011 13:42	0.012
5280	0.01	0.01	0.011	0.011	1:43:30 PM	10/29/2011 13:43	0.012
5340	0.015	0.015	0.015	0.016	1:44:30 PM	10/29/2011 13:44	0.016
5400	0.015	0.016	0.016	0.017	1:45:30 PM	10/29/2011 13:45	0.017
5460	0.059	0.061	0.068	0.112	1:46:30 PM	10/29/2011 13:46	0.162
5520	0.067	0.07	0.081	0.135	1:47:30 PM	10/29/2011 13:47	0.171
5580	0.025	0.026	0.028	0.038	1:48:30 PM	10/29/2011 13:48	0.049
5640	0.018	0.019	0.019	0.021	1:49:30 PM	10/29/2011 13:49	0.022
5700	0.017	0.017	0.018	0.02	1:50:30 PM	10/29/2011 13:50	0.023
5760	0.013	0.013	0.014	0.015	1:51:30 PM	10/29/2011 13:51	0.016
5820	0.01	0.01	0.011	0.012	1:52:30 PM	10/29/2011 13:52	0.013
5880	0.009	0.009	0.009	0.01	1:53:30 PM	10/29/2011 13:53	0.01
5940	0.009	0.009	0.009	0.009	1:54:30 PM	10/29/2011 13:54	0.01
6000	0.008	0.008	0.009	0.009	1:55:30 PM	10/29/2011 13:55	0.009
6060	0.011	0.011	0.011	0.012	1:56:30 PM	10/29/2011 13:56	0.012
6120	0.01	0.011	0.011	0.012	1:57:30 PM	10/29/2011 13:57	0.012
6180	0.022	0.023	0.024	0.036	1:58:30 PM	10/29/2011 13:58	0.054
6240	0.01	0.01	0.01	0.013	1:59:30 PM	10/29/2011 13:59	0.015
6300	0.01	0.01	0.01	0.012	2:00:30 PM	10/29/2011 14:00	0.015
6360	0.01	0.01	0.011	0.013	2:01:30 PM	10/29/2011 14:01	0.014
6420	0.013	0.013	0.015	0.019	2:02:30 PM	10/29/2011 14:02	0.021
6480	0.038	0.041	0.049	0.072	2:03:30 PM	10/29/2011 14:03	0.082
6540	0.013	0.014	0.015	0.019	2:04:30 PM	10/29/2011 14:04	0.021
6600	0.027	0.029	0.033	0.051	2:05:30 PM	10/29/2011 14:05	0.061
6660	0.043	0.046	0.053	0.098	2:06:30 PM	10/29/2011 14:06	0.124
6720	0.018	0.019	0.021	0.032	2:07:30 PM	10/29/2011 14:07	0.037
6780	0.013	0.014	0.014	0.019	2:08:30 PM	10/29/2011 14:08	0.023
6840	0.011	0.011	0.011	0.013	2:09:30 PM	10/29/2011 14:09	0.014
6900	0.009	0.009	0.009	0.011	2:10:30 PM	10/29/2011 14:10	0.012
6960	0.011	0.012	0.012	0.015	2:11:30 PM	10/29/2011 14:11	0.018
7020	0.017	0.018	0.019	0.024	2:12:30 PM	10/29/2011 14:12	0.028
7080	0.013	0.013	0.014	0.017	2:13:30 PM	10/29/2011 14:13	0.02
7140	0.018	0.019	0.02	0.027	2:14:30 PM	10/29/2011 14:14	0.036
7200	0.008	0.009	0.009	0.011	2:15:30 PM	10/29/2011 14:15	0.012
7260	0.011	0.011	0.012	0.017	2:16:30 PM	10/29/2011 14:16	0.019
7320	0.014	0.014	0.016	0.022	2:17:30 PM	10/29/2011 14:17	0.026
7380	0.01	0.01	0.011	0.012	2:18:30 PM	10/29/2011 14:18	0.012
7440	0.01	0.011	0.012	0.014	2:19:30 PM	10/29/2011 14:19	0.014
7500	0.009	0.009	0.01	0.011	2:20:30 PM	10/29/2011 14:20	0.012
7560	0.01	0.01	0.011	0.014	2:21:30 PM	10/29/2011 14:21	0.016
7620	0.023	0.023	0.024	0.027	2:22:30 PM	10/29/2011 14:22	0.03
7680	0.027	0.028	0.03	0.047	2:23:30 PM	10/29/2011 14:23	0.066
7740	0.019	0.019	0.02	0.027	2:24:30 PM	10/29/2011 14:24	0.034
7800	0.013	0.014	0.015	0.021	2:25:30 PM	10/29/2011 14:25	0.027
7860	0.019	0.02	0.023	0.036	2:26:30 PM	10/29/2011 14:26	0.044
7920	0.01	0.011	0.012	0.017	2:27:30 PM	10/29/2011 14:27	0.019
7980	0.009	0.009	0.01	0.014	2:28:30 PM	10/29/2011 14:28	0.015
8040	0.009	0.009	0.01	0.012	2:29:30 PM	10/29/2011 14:29	0.013
8100	0.01	0.011	0.011	0.014	2:30:30 PM	10/29/2011 14:30	0.015
8160	0.013	0.013	0.013	0.015	2:31:30 PM	10/29/2011 14:31	0.015
8220	0.013	0.013	0.014	0.015	2:32:30 PM	10/29/2011 14:32	0.016
8280	0.047	0.048	0.051	0.078	2:33:30 PM	10/29/2011 14:33	0.122
8340	0.025	0.026	0.027	0.039	2:34:30 PM	10/29/2011 14:34	0.062
8400	0.018	0.019	0.02	0.027	2:35:30 PM	10/29/2011 14:35	0.037
8460	0.054	0.057	0.063	0.085	2:36:30 PM	10/29/2011 14:36	0.116
8520	0.033	0.034	0.037	0.052	2:37:30 PM	10/29/2011 14:37	0.071
8580	0.018	0.019	0.021	0.029	2:38:30 PM	10/29/2011 14:38	0.034
8640	0.015	0.015	0.016	0.02	2:39:30 PM	10/29/2011 14:39	0.025
8700	0.015	0.016	0.017	0.023	2:40:30 PM	10/29/2011 14:40	0.027

8760	0.013	0.013	0.014	0.016	2:41:30 PM	10/29/2011 14:41	0.019
8820	0.014	0.014	0.015	0.018	2:42:30 PM	10/29/2011 14:42	0.022
8880	0.012	0.013	0.013	0.017	2:43:30 PM	10/29/2011 14:43	0.024
8940	0.028	0.029	0.032	0.049	2:44:30 PM	10/29/2011 14:44	0.059
9000	0.026	0.028	0.032	0.052	2:45:30 PM	10/29/2011 14:45	0.064
9060	0.033	0.035	0.04	0.058	2:46:30 PM	10/29/2011 14:46	0.071
9120	0.024	0.026	0.029	0.045	2:47:30 PM	10/29/2011 14:47	0.05
9180	0.02	0.021	0.023	0.032	2:48:30 PM	10/29/2011 14:48	0.039
9240	0.02	0.02	0.022	0.032	2:49:30 PM	10/29/2011 14:49	0.04
9300	0.022	0.023	0.026	0.042	2:50:30 PM	10/29/2011 14:50	0.054
9360	0.025	0.026	0.03	0.05	2:51:30 PM	10/29/2011 14:51	0.064
9420	0.041	0.043	0.05	0.083	2:52:30 PM	10/29/2011 14:52	0.101
9480	0.028	0.029	0.034	0.052	2:53:30 PM	10/29/2011 14:53	0.065
9540	0.026	0.027	0.032	0.052	2:54:30 PM	10/29/2011 14:54	0.065
9600	0.011	0.011	0.012	0.015	2:55:30 PM	10/29/2011 14:55	0.016
9660	0.008	0.008	0.008	0.009	2:56:30 PM	10/29/2011 14:56	0.01
9720	0.047	0.051	0.06	0.098	2:57:30 PM	10/29/2011 14:57	0.117
9780	0.134	0.146	0.181	0.307	2:58:30 PM	10/29/2011 14:58	0.364
9840	0.13	0.14	0.171	0.309	2:59:30 PM	10/29/2011 14:59	0.384
9900	0.086	0.093	0.113	0.189	3:00:30 PM	10/29/2011 15:00	0.223
9960	0.065	0.071	0.085	0.141	3:01:30 PM	10/29/2011 15:01	0.17
10020	0.049	0.053	0.063	0.108	3:02:30 PM	10/29/2011 15:02	0.13
10080	0.047	0.05	0.058	0.097	3:03:30 PM	10/29/2011 15:03	0.115
10140	0.022	0.023	0.027	0.043	3:04:30 PM	10/29/2011 15:04	0.054
10200	0.043	0.045	0.053	0.094	3:05:30 PM	10/29/2011 15:05	0.12
10260	0.076	0.081	0.096	0.171	3:06:30 PM	10/29/2011 15:06	0.22
10320	0.087	0.094	0.114	0.206	3:07:30 PM	10/29/2011 15:07	0.268
10380	0.025	0.027	0.03	0.048	3:08:30 PM	10/29/2011 15:08	0.062
10440	0.032	0.034	0.039	0.073	3:09:30 PM	10/29/2011 15:09	0.094
10500	0.027	0.028	0.031	0.047	3:10:30 PM	10/29/2011 15:10	0.058
10560	0.016	0.017	0.017	0.018	3:11:30 PM	10/29/2011 15:11	0.019
10620	0.019	0.02	0.02	0.022	3:12:30 PM	10/29/2011 15:12	0.023
10680	0.038	0.038	0.039	0.04	3:13:30 PM	10/29/2011 15:13	0.041
10740	0.022	0.022	0.023	0.024	3:14:30 PM	10/29/2011 15:14	0.025
10800	0.023	0.023	0.024	0.024	3:15:30 PM	10/29/2011 15:15	0.025
10860	0.018	0.018	0.019	0.02	3:16:30 PM	10/29/2011 15:16	0.02
10920	0.043	0.043	0.044	0.044	3:17:30 PM	10/29/2011 15:17	0.044
10980	0.035	0.035	0.036	0.037	3:18:30 PM	10/29/2011 15:18	0.037
11040	0.03	0.03	0.03	0.031	3:19:30 PM	10/29/2011 15:19	0.032
11100	0.022	0.022	0.023	0.023	3:20:30 PM	10/29/2011 15:20	0.023
11160	0.032	0.032	0.032	0.033	3:21:30 PM	10/29/2011 15:21	0.034
11220	0.023	0.024	0.024	0.025	3:22:30 PM	10/29/2011 15:22	0.026
11280	0.023	0.023	0.024	0.025	3:23:30 PM	10/29/2011 15:23	0.026
11340	0.021	0.022	0.022	0.024	3:24:30 PM	10/29/2011 15:24	0.026
11400	0.021	0.022	0.022	0.024	3:25:30 PM	10/29/2011 15:25	0.024
11460	0.021	0.021	0.022	0.023	3:26:30 PM	10/29/2011 15:26	0.024
11520	0.025	0.025	0.026	0.027	3:27:30 PM	10/29/2011 15:27	0.027
11580	0.023	0.023	0.023	0.025	3:28:30 PM	10/29/2011 15:28	0.025
11640	0.025	0.025	0.025	0.027	3:29:30 PM	10/29/2011 15:29	0.028
11700	0.019	0.019	0.02	0.021	3:30:30 PM	10/29/2011 15:30	0.022
11760	0.017	0.017	0.018	0.019	3:31:30 PM	10/29/2011 15:31	0.02
11820	0.023	0.023	0.024	0.025	3:32:30 PM	10/29/2011 15:32	0.026
11880	0.017	0.017	0.017	0.018	3:33:30 PM	10/29/2011 15:33	0.018
11940	0.017	0.017	0.017	0.018	3:34:30 PM	10/29/2011 15:34	0.018
12000	0.018	0.018	0.019	0.019	3:35:30 PM	10/29/2011 15:35	0.02
12060	0.016	0.016	0.017	0.018	3:36:30 PM	10/29/2011 15:36	0.018
12120	0.016	0.016	0.016	0.017	3:37:30 PM	10/29/2011 15:37	0.017
12180	0.014	0.014	0.014	0.015	3:38:30 PM	10/29/2011 15:38	0.015
12240	0.014	0.014	0.014	0.014	3:39:30 PM	10/29/2011 15:39	0.015
12300	0.013	0.014	0.014	0.014	3:40:30 PM	10/29/2011 15:40	0.015
12360	0.016	0.016	0.016	0.017	3:41:30 PM	10/29/2011 15:41	0.017
12420	0.015	0.015	0.016	0.016	3:42:30 PM	10/29/2011 15:42	0.016
12480	0.022	0.022	0.022	0.022	3:43:30 PM	10/29/2011 15:43	0.023
12540	0.019	0.019	0.019	0.02	3:44:30 PM	10/29/2011 15:44	0.02
12600	0.023	0.023	0.024	0.024	3:45:30 PM	10/29/2011 15:45	0.025
12660	0.022	0.023	0.023	0.024	3:46:30 PM	10/29/2011 15:46	0.025
12720	0.023	0.023	0.023	0.025	3:47:30 PM	10/29/2011 15:47	0.025
12780	0.019	0.019	0.019	0.02	3:48:30 PM	10/29/2011 15:48	0.021
12840	0.024	0.024	0.025	0.025	3:49:30 PM	10/29/2011 15:49	0.026
12900	0.017	0.017	0.017	0.018	3:50:30 PM	10/29/2011 15:50	0.018
12960	0.016	0.016	0.017	0.018	3:51:30 PM	10/29/2011 15:51	0.018
13020	0.027	0.027	0.028	0.031	3:52:30 PM	10/29/2011 15:52	0.032
13080	0.038	0.039	0.041	0.043	3:53:30 PM	10/29/2011 15:53	0.044
13140	0.011	0.011	0.012	0.012	3:54:30 PM	10/29/2011 15:54	0.012
13200	0.021	0.022	0.022	0.023	3:55:30 PM	10/29/2011 15:55	0.025
13260	0.031	0.032	0.033	0.034	3:56:30 PM	10/29/2011 15:56	0.035
13320	0.014	0.014	0.014	0.015	3:57:30 PM	10/29/2011 15:57	0.015
13380	0.016	0.016	0.017	0.018	3:58:30 PM	10/29/2011 15:58	0.018
13440	0.017	0.017	0.018	0.018	3:59:30 PM	10/29/2011 15:59	0.018
13500	0.014	0.014	0.014	0.014	4:00:30 PM	10/29/2011 16:00	0.014
13560	0.023	0.023	0.023	0.024	4:01:30 PM	10/29/2011 16:01	0.024
13620	0.021	0.021	0.021	0.022	4:02:30 PM	10/29/2011 16:02	0.022
13680	0.021	0.021	0.021	0.022	4:03:30 PM	10/29/2011 16:03	0.022
13740	0.025	0.026	0.026	0.027	4:04:30 PM	10/29/2011 16:04	0.027
13800	0.018	0.018	0.019	0.019	4:05:30 PM	10/29/2011 16:05	0.019
13860	0.013	0.013	0.013	0.014	4:06:30 PM	10/29/2011 16:06	0.014
13920	0.025	0.025	0.025	0.025	4:07:30 PM	10/29/2011 16:07	0.025
13980	0.024	0.024	0.024	0.024	4:08:30 PM	10/29/2011 16:08	0.024
14040	0.021	0.021	0.021	0.021	4:09:30 PM	10/29/2011 16:09	0.021
14100	0.022	0.022	0.022	0.023	4:10:30 PM	10/29/2011 16:10	0.023
14160	0.013	0.013	0.013	0.014	4:11:30 PM	10/29/2011 16:11	0.014

14220	0.012	0.012	0.013	0.013	4:12:30 PM	10/29/2011 16:12	0.014
14280	0.016	0.016	0.016	0.017	4:13:30 PM	10/29/2011 16:13	0.017
14340	0.009	0.009	0.009	0.01	4:14:30 PM	10/29/2011 16:14	0.01
14400	0.011	0.012	0.012	0.012	4:15:30 PM	10/29/2011 16:15	0.012
14460	0.009	0.009	0.009	0.009	4:16:30 PM	10/29/2011 16:16	0.009
14520	0.009	0.009	0.009	0.009	4:17:30 PM	10/29/2011 16:17	0.01
14580	0.008	0.008	0.008	0.009	4:18:30 PM	10/29/2011 16:18	0.009
14640	0.011	0.011	0.011	0.011	4:19:30 PM	10/29/2011 16:19	0.012
14700	0.01	0.01	0.01	0.011	4:20:30 PM	10/29/2011 16:20	0.011
14760	0.011	0.011	0.012	0.012	4:21:30 PM	10/29/2011 16:21	0.012
14820	0.01	0.011	0.011	0.011	4:22:30 PM	10/29/2011 16:22	0.012
14880	0.012	0.012	0.012	0.013	4:23:30 PM	10/29/2011 16:23	0.013
14940	0.012	0.012	0.012	0.012	4:24:30 PM	10/29/2011 16:24	0.012
15000	0.017	0.017	0.017	0.018	4:25:30 PM	10/29/2011 16:25	0.018
15060	0.017	0.017	0.017	0.018	4:26:30 PM	10/29/2011 16:26	0.019
15120	0.011	0.011	0.012	0.012	4:27:30 PM	10/29/2011 16:27	0.012
15180	0.009	0.009	0.01	0.01	4:28:30 PM	10/29/2011 16:28	0.01
15240	0.012	0.012	0.012	0.012	4:29:30 PM	10/29/2011 16:29	0.012
15300	0.011	0.011	0.011	0.012	4:30:30 PM	10/29/2011 16:30	0.012
15360	0.014	0.014	0.014	0.014	4:31:30 PM	10/29/2011 16:31	0.014
15420	0.012	0.012	0.012	0.013	4:32:30 PM	10/29/2011 16:32	0.013
15480	0.008	0.009	0.009	0.009	4:33:30 PM	10/29/2011 16:33	0.009
15540	0.011	0.011	0.012	0.012	4:34:30 PM	10/29/2011 16:34	0.012
15600	0.009	0.01	0.01	0.01	4:35:30 PM	10/29/2011 16:35	0.01
15660	0.009	0.009	0.009	0.009	4:36:30 PM	10/29/2011 16:36	0.009
15720	0.009	0.009	0.009	0.01	4:37:30 PM	10/29/2011 16:37	0.01
15780	0.008	0.009	0.009	0.009	4:38:30 PM	10/29/2011 16:38	0.009
15840	0.008	0.009	0.009	0.009	4:39:30 PM	10/29/2011 16:39	0.009
15900	0.009	0.009	0.009	0.009	4:40:30 PM	10/29/2011 16:40	0.009
15960	0.01	0.01	0.01	0.01	4:41:30 PM	10/29/2011 16:41	0.011
16020	0.01	0.01	0.01	0.011	4:42:30 PM	10/29/2011 16:42	0.011
16080	0.011	0.011	0.011	0.011	4:43:30 PM	10/29/2011 16:43	0.012
16140	0.008	0.008	0.008	0.009	4:44:30 PM	10/29/2011 16:44	0.009
16200	0.008	0.008	0.008	0.009	4:45:30 PM	10/29/2011 16:45	0.009
16260	0.009	0.009	0.009	0.01	4:46:30 PM	10/29/2011 16:46	0.01
16320	0.007	0.008	0.008	0.008	4:47:30 PM	10/29/2011 16:47	0.008
16380	0.007	0.008	0.008	0.008	4:48:30 PM	10/29/2011 16:48	0.009
16440	0.007	0.007	0.007	0.007	4:49:30 PM	10/29/2011 16:49	0.007
16500	0.012	0.012	0.012	0.012	4:50:30 PM	10/29/2011 16:50	0.012
16560	0.009	0.009	0.009	0.009	4:51:30 PM	10/29/2011 16:51	0.009
16620	0.008	0.008	0.008	0.008	4:52:30 PM	10/29/2011 16:52	0.008
16680	0.008	0.008	0.008	0.008	4:53:30 PM	10/29/2011 16:53	0.009
16740	0.007	0.008	0.008	0.008	4:54:30 PM	10/29/2011 16:54	0.008
16800	0.007	0.008	0.008	0.008	4:55:30 PM	10/29/2011 16:55	0.008
16860	0.007	0.007	0.008	0.008	4:56:30 PM	10/29/2011 16:56	0.008
16920	0.008	0.009	0.009	0.009	4:57:30 PM	10/29/2011 16:57	0.01
16980	0.008	0.008	0.009	0.009	4:58:30 PM	10/29/2011 16:58	0.009
17040	0.008	0.008	0.008	0.009	4:59:30 PM	10/29/2011 16:59	0.009
17100	0.01	0.011	0.011	0.011	5:00:30 PM	10/29/2011 17:00	0.011
17160	0.009	0.009	0.009	0.01	5:01:30 PM	10/29/2011 17:01	0.01
17220	0.008	0.008	0.008	0.009	5:02:30 PM	10/29/2011 17:02	0.009
17280	0.007	0.007	0.007	0.008	5:03:30 PM	10/29/2011 17:03	0.008
17340	0.008	0.008	0.008	0.009	5:04:30 PM	10/29/2011 17:04	0.009
17400	0.007	0.008	0.008	0.008	5:05:30 PM	10/29/2011 17:05	0.008
17460	0.007	0.007	0.007	0.008	5:06:30 PM	10/29/2011 17:06	0.008
17520	0.007	0.007	0.007	0.008	5:07:30 PM	10/29/2011 17:07	0.008
17580	0.007	0.007	0.007	0.008	5:08:30 PM	10/29/2011 17:08	0.008
17640	0.008	0.008	0.008	0.009	5:09:30 PM	10/29/2011 17:09	0.009
17700	0.009	0.009	0.009	0.01	5:10:30 PM	10/29/2011 17:10	0.01
17760	0.007	0.007	0.007	0.008	5:11:30 PM	10/29/2011 17:11	0.008

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533101806
Firmware Version	2.8
Calibration Date	5/19/2011
Test Name	MANUAL_002
Test Start Time	7:52:59 AM
Test Start Date	10/30/2011
Test Length [D:H:M]	0:07:38
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.009
PM1 Minimum [mg/m3]	0.005
PM1 Maximum [mg/m3]	0.082
PM1 TWA [mg/m3]	0.009
PM2.5 Average [mg/m3]	0.009
PM2.5 Minimum [mg/m3]	0.005
PM2.5 Maximum [mg/m3]	0.082
PM2.5 TWA [mg/m3]	0.009
PM4 Average [mg/m3]	0.01
PM4 Minimum [mg/m3]	0.006
PM4 Maximum [mg/m3]	0.083
PM4 TWA [mg/m3]	0.009
PM10 Average [mg/m3]	0.01
PM10 Minimum [mg/m3]	0.006
PM10 Maximum [mg/m3]	0.083
PM10 TWA [mg/m3]	0.009
TOTAL Average [mg/m3]	0.01
TOTAL Minimum [mg/m3]	0.006
TOTAL Maximum [mg/m3]	0.083
TOTAL TWA [mg/m3]	0.01
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	458



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:52:59 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.025	0.025	0.025	0.029	7:53:59 AM	10/30/2011 7:53	0.034		
120	0.008	0.008	0.009	0.009	7:54:59 AM	10/30/2011 7:54	0.009		
180	0.008	0.009	0.009	0.009	7:55:59 AM	10/30/2011 7:55	0.009		
240	0.009	0.009	0.009	0.009	7:56:59 AM	10/30/2011 7:56	0.009		
300	0.009	0.009	0.009	0.009	7:57:59 AM	10/30/2011 7:57	0.009		
360	0.009	0.009	0.009	0.01	7:58:59 AM	10/30/2011 7:58	0.01		
420	0.009	0.01	0.01	0.01	7:59:59 AM	10/30/2011 7:59	0.01		
480	0.009	0.009	0.009	0.009	8:00:59 AM	10/30/2011 8:00	0.009		
540	0.014	0.014	0.014	0.014	8:01:59 AM	10/30/2011 8:01	0.014		
600	0.011	0.011	0.011	0.011	8:02:59 AM	10/30/2011 8:02	0.012		
660	0.01	0.01	0.01	0.01	8:03:59 AM	10/30/2011 8:03	0.011		
720	0.01	0.01	0.01	0.01	8:04:59 AM	10/30/2011 8:04	0.01		
780	0.01	0.01	0.01	0.011	8:05:59 AM	10/30/2011 8:05	0.011		
840	0.009	0.01	0.01	0.01	8:06:59 AM	10/30/2011 8:06	0.01		
900	0.009	0.01	0.01	0.01	8:07:59 AM	10/30/2011 8:07	0.01		
960	0.01	0.01	0.01	0.01	8:08:59 AM	10/30/2011 8:08	0.01		
1020	0.01	0.01	0.01	0.01	8:09:59 AM	10/30/2011 8:09	0.01		
1080	0.01	0.01	0.01	0.01	8:10:59 AM	10/30/2011 8:10	0.01		
1140	0.01	0.01	0.01	0.01	8:11:59 AM	10/30/2011 8:11	0.01		
1200	0.01	0.01	0.01	0.01	8:12:59 AM	10/30/2011 8:12	0.01		
1260	0.01	0.01	0.01	0.01	8:13:59 AM	10/30/2011 8:13	0.01		
1320	0.01	0.01	0.01	0.011	8:14:59 AM	10/30/2011 8:14	0.011		
1380	0.011	0.011	0.011	0.011	8:15:59 AM	10/30/2011 8:15	0.011		
1440	0.01	0.01	0.01	0.011	8:16:59 AM	10/30/2011 8:16	0.011		
1500	0.01	0.01	0.01	0.01	8:17:59 AM	10/30/2011 8:17	0.01		
1560	0.013	0.013	0.013	0.014	8:18:59 AM	10/30/2011 8:18	0.015		
1620	0.01	0.01	0.01	0.01	8:19:59 AM	10/30/2011 8:19	0.011		
1680	0.01	0.01	0.01	0.01	8:20:59 AM	10/30/2011 8:20	0.01		
1740	0.01	0.01	0.01	0.01	8:21:59 AM	10/30/2011 8:21	0.01		
1800	0.01	0.01	0.01	0.01	8:22:59 AM	10/30/2011 8:22	0.01		
1860	0.013	0.013	0.013	0.014	8:23:59 AM	10/30/2011 8:23	0.014		
1920	0.014	0.014	0.015	0.015	8:24:59 AM	10/30/2011 8:24	0.015		
1980	0.015	0.015	0.015	0.015	8:25:59 AM	10/30/2011 8:25	0.015		
2040	0.01	0.01	0.01	0.01	8:26:59 AM	10/30/2011 8:26	0.01		
2100	0.01	0.01	0.01	0.011	8:27:59 AM	10/30/2011 8:27	0.011		
2160	0.01	0.01	0.01	0.011	8:28:59 AM	10/30/2011 8:28	0.011		
2220	0.011	0.012	0.012	0.012	8:29:59 AM	10/30/2011 8:29	0.012		
2280	0.023	0.023	0.023	0.023	8:30:59 AM	10/30/2011 8:30	0.023		
2340	0.01	0.01	0.01	0.01	8:31:59 AM	10/30/2011 8:31	0.01		
2400	0.01	0.01	0.01	0.011	8:32:59 AM	10/30/2011 8:32	0.011		
2460	0.011	0.011	0.011	0.011	8:33:59 AM	10/30/2011 8:33	0.011		
2520	0.011	0.011	0.011	0.011	8:34:59 AM	10/30/2011 8:34	0.011		
2580	0.01	0.01	0.01	0.01	8:35:59 AM	10/30/2011 8:35	0.01		
2640	0.01	0.01	0.01	0.01	8:36:59 AM	10/30/2011 8:36	0.01		
2700	0.011	0.012	0.012	0.013	8:37:59 AM	10/30/2011 8:37	0.013		
2760	0.011	0.011	0.011	0.012	8:38:59 AM	10/30/2011 8:38	0.012		
2820	0.01	0.01	0.01	0.011	8:39:59 AM	10/30/2011 8:39	0.011		
2880	0.01	0.01	0.01	0.01	8:40:59 AM	10/30/2011 8:40	0.01		
2940	0.01	0.01	0.01	0.01	8:41:59 AM	10/30/2011 8:41	0.01		
3000	0.011	0.011	0.011	0.011	8:42:59 AM	10/30/2011 8:42	0.011		
3060	0.01	0.01	0.01	0.011	8:43:59 AM	10/30/2011 8:43	0.011		
3120	0.01	0.01	0.01	0.01	8:44:59 AM	10/30/2011 8:44	0.011		
3180	0.011	0.012	0.012	0.014	8:45:59 AM	10/30/2011 8:45	0.014		
3240	0.01	0.01	0.01	0.011	8:46:59 AM	10/30/2011 8:46	0.011		

3300	0.011	0.011	0.011	0.011	8:47:59 AM	10/30/2011 8:47	0.011
3360	0.011	0.011	0.011	0.011	8:48:59 AM	10/30/2011 8:48	0.011
3420	0.011	0.011	0.012	0.012	8:49:59 AM	10/30/2011 8:49	0.012
3480	0.011	0.011	0.012	0.012	8:50:59 AM	10/30/2011 8:50	0.012
3540	0.017	0.017	0.017	0.018	8:51:59 AM	10/30/2011 8:51	0.018
3600	0.01	0.01	0.01	0.011	8:52:59 AM	10/30/2011 8:52	0.011
3660	0.01	0.01	0.01	0.01	8:53:59 AM	10/30/2011 8:53	0.01
3720	0.01	0.01	0.01	0.01	8:54:59 AM	10/30/2011 8:54	0.01
3780	0.011	0.011	0.011	0.011	8:55:59 AM	10/30/2011 8:55	0.011
3840	0.01	0.01	0.011	0.011	8:56:59 AM	10/30/2011 8:56	0.011
3900	0.011	0.011	0.011	0.012	8:57:59 AM	10/30/2011 8:57	0.012
3960	0.011	0.011	0.011	0.011	8:58:59 AM	10/30/2011 8:58	0.011
4020	0.01	0.01	0.01	0.01	8:59:59 AM	10/30/2011 8:59	0.01
4080	0.01	0.01	0.01	0.011	9:00:59 AM	10/30/2011 9:00	0.011
4140	0.012	0.012	0.013	0.013	9:01:59 AM	10/30/2011 9:01	0.013
4200	0.014	0.014	0.014	0.015	9:02:59 AM	10/30/2011 9:02	0.015
4260	0.009	0.01	0.01	0.01	9:03:59 AM	10/30/2011 9:03	0.01
4320	0.009	0.01	0.01	0.01	9:04:59 AM	10/30/2011 9:04	0.01
4380	0.01	0.01	0.01	0.011	9:05:59 AM	10/30/2011 9:05	0.011
4440	0.008	0.008	0.009	0.009	9:06:59 AM	10/30/2011 9:06	0.009
4500	0.008	0.008	0.009	0.009	9:07:59 AM	10/30/2011 9:07	0.009
4560	0.009	0.009	0.009	0.009	9:08:59 AM	10/30/2011 9:08	0.009
4620	0.01	0.01	0.01	0.01	9:09:59 AM	10/30/2011 9:09	0.01
4680	0.009	0.009	0.009	0.009	9:10:59 AM	10/30/2011 9:10	0.009
4740	0.009	0.009	0.009	0.009	9:11:59 AM	10/30/2011 9:11	0.009
4800	0.008	0.008	0.008	0.008	9:12:59 AM	10/30/2011 9:12	0.008
4860	0.008	0.008	0.009	0.009	9:13:59 AM	10/30/2011 9:13	0.009
4920	0.009	0.009	0.009	0.009	9:14:59 AM	10/30/2011 9:14	0.009
4980	0.01	0.01	0.01	0.01	9:15:59 AM	10/30/2011 9:15	0.011
5040	0.016	0.016	0.017	0.017	9:16:59 AM	10/30/2011 9:16	0.017
5100	0.008	0.009	0.009	0.009	9:17:59 AM	10/30/2011 9:17	0.009
5160	0.008	0.008	0.008	0.008	9:18:59 AM	10/30/2011 9:18	0.008
5220	0.009	0.009	0.009	0.009	9:19:59 AM	10/30/2011 9:19	0.009
5280	0.01	0.01	0.01	0.011	9:20:59 AM	10/30/2011 9:20	0.011
5340	0.008	0.008	0.008	0.008	9:21:59 AM	10/30/2011 9:21	0.008
5400	0.008	0.008	0.008	0.008	9:22:59 AM	10/30/2011 9:22	0.009
5460	0.008	0.008	0.008	0.008	9:23:59 AM	10/30/2011 9:23	0.008
5520	0.008	0.008	0.008	0.008	9:24:59 AM	10/30/2011 9:24	0.008
5580	0.008	0.008	0.008	0.009	9:25:59 AM	10/30/2011 9:25	0.009
5640	0.008	0.008	0.008	0.008	9:26:59 AM	10/30/2011 9:26	0.008
5700	0.008	0.008	0.008	0.008	9:27:59 AM	10/30/2011 9:27	0.008
5760	0.008	0.008	0.008	0.008	9:28:59 AM	10/30/2011 9:28	0.008
5820	0.008	0.008	0.008	0.008	9:29:59 AM	10/30/2011 9:29	0.008
5880	0.008	0.008	0.008	0.008	9:30:59 AM	10/30/2011 9:30	0.008
5940	0.008	0.008	0.008	0.008	9:31:59 AM	10/30/2011 9:31	0.008
6000	0.007	0.007	0.008	0.008	9:32:59 AM	10/30/2011 9:32	0.008
6060	0.007	0.007	0.008	0.008	9:33:59 AM	10/30/2011 9:33	0.008
6120	0.008	0.008	0.008	0.008	9:34:59 AM	10/30/2011 9:34	0.008
6180	0.007	0.007	0.007	0.007	9:35:59 AM	10/30/2011 9:35	0.007
6240	0.007	0.008	0.008	0.008	9:36:59 AM	10/30/2011 9:36	0.008
6300	0.007	0.008	0.008	0.008	9:37:59 AM	10/30/2011 9:37	0.008
6360	0.007	0.007	0.007	0.008	9:38:59 AM	10/30/2011 9:38	0.008
6420	0.007	0.007	0.007	0.008	9:39:59 AM	10/30/2011 9:39	0.008
6480	0.007	0.007	0.007	0.007	9:40:59 AM	10/30/2011 9:40	0.007
6540	0.007	0.007	0.007	0.008	9:41:59 AM	10/30/2011 9:41	0.008
6600	0.007	0.007	0.008	0.008	9:42:59 AM	10/30/2011 9:42	0.008
6660	0.007	0.007	0.007	0.007	9:43:59 AM	10/30/2011 9:43	0.007
6720	0.007	0.007	0.007	0.008	9:44:59 AM	10/30/2011 9:44	0.008
6780	0.007	0.007	0.007	0.008	9:45:59 AM	10/30/2011 9:45	0.008
6840	0.011	0.012	0.012	0.014	9:46:59 AM	10/30/2011 9:46	0.016
6900	0.008	0.008	0.008	0.009	9:47:59 AM	10/30/2011 9:47	0.01
6960	0.015	0.015	0.015	0.016	9:48:59 AM	10/30/2011 9:48	0.018
7020	0.007	0.007	0.008	0.008	9:49:59 AM	10/30/2011 9:49	0.008
7080	0.007	0.007	0.007	0.008	9:50:59 AM	10/30/2011 9:50	0.008
7140	0.007	0.007	0.007	0.008	9:51:59 AM	10/30/2011 9:51	0.008
7200	0.007	0.007	0.008	0.008	9:52:59 AM	10/30/2011 9:52	0.008
7260	0.007	0.007	0.007	0.008	9:53:59 AM	10/30/2011 9:53	0.008
7320	0.007	0.007	0.007	0.008	9:54:59 AM	10/30/2011 9:54	0.008
7380	0.007	0.007	0.007	0.008	9:55:59 AM	10/30/2011 9:55	0.008
7440	0.007	0.007	0.007	0.007	9:56:59 AM	10/30/2011 9:56	0.007
7500	0.007	0.007	0.007	0.007	9:57:59 AM	10/30/2011 9:57	0.007
7560	0.011	0.011	0.012	0.012	9:58:59 AM	10/30/2011 9:58	0.012
7620	0.007	0.007	0.007	0.007	9:59:59 AM	10/30/2011 9:59	0.007
7680	0.007	0.007	0.007	0.007	10:00:59 AM	10/30/2011 10:00	0.007
7740	0.007	0.007	0.007	0.008	10:01:59 AM	10/30/2011 10:01	0.008
7800	0.007	0.007	0.007	0.007	10:02:59 AM	10/30/2011 10:02	0.007
7860	0.007	0.007	0.007	0.008	10:03:59 AM	10/30/2011 10:03	0.008
7920	0.008	0.008	0.008	0.009	10:04:59 AM	10/30/2011 10:04	0.009
7980	0.008	0.008	0.008	0.008	10:05:59 AM	10/30/2011 10:05	0.008
8040	0.008	0.008	0.008	0.008	10:06:59 AM	10/30/2011 10:06	0.008
8100	0.008	0.008	0.008	0.008	10:07:59 AM	10/30/2011 10:07	0.008
8160	0.007	0.007	0.008	0.008	10:08:59 AM	10/30/2011 10:08	0.008
8220	0.007	0.007	0.007	0.007	10:09:59 AM	10/30/2011 10:09	0.007
8280	0.007	0.007	0.007	0.007	10:10:59 AM	10/30/2011 10:10	0.007
8340	0.007	0.007	0.007	0.007	10:11:59 AM	10/30/2011 10:11	0.007
8400	0.007	0.008	0.008	0.008	10:12:59 AM	10/30/2011 10:12	0.008
8460	0.007	0.007	0.007	0.008	10:13:59 AM	10/30/2011 10:13	0.008
8520	0.009	0.009	0.01	0.01	10:14:59 AM	10/30/2011 10:14	0.011
8580	0.012	0.013	0.013	0.013	10:15:59 AM	10/30/2011 10:15	0.013
8640	0.015	0.015	0.015	0.016	10:16:59 AM	10/30/2011 10:16	0.016
8700	0.019	0.019	0.019	0.019	10:17:59 AM	10/30/2011 10:17	0.019

8760	0.009	0.01	0.01	0.01	10:18:59 AM	10/30/2011 10:18	0.01
8820	0.023	0.023	0.024	0.024	10:19:59 AM	10/30/2011 10:19	0.024
8880	0.082	0.082	0.083	0.083	10:20:59 AM	10/30/2011 10:20	0.083
8940	0.062	0.062	0.062	0.063	10:21:59 AM	10/30/2011 10:21	0.063
9000	0.024	0.024	0.024	0.024	10:22:59 AM	10/30/2011 10:22	0.024
9060	0.016	0.016	0.016	0.016	10:23:59 AM	10/30/2011 10:23	0.016
9120	0.016	0.016	0.016	0.017	10:24:59 AM	10/30/2011 10:24	0.017
9180	0.012	0.012	0.013	0.013	10:25:59 AM	10/30/2011 10:25	0.013
9240	0.008	0.009	0.009	0.009	10:26:59 AM	10/30/2011 10:26	0.009
9300	0.008	0.009	0.009	0.009	10:27:59 AM	10/30/2011 10:27	0.009
9360	0.008	0.008	0.008	0.008	10:28:59 AM	10/30/2011 10:28	0.008
9420	0.008	0.008	0.008	0.008	10:29:59 AM	10/30/2011 10:29	0.008
9480	0.006	0.006	0.006	0.006	10:30:59 AM	10/30/2011 10:30	0.006
9540	0.008	0.008	0.008	0.008	10:31:59 AM	10/30/2011 10:31	0.008
9600	0.007	0.008	0.008	0.008	10:32:59 AM	10/30/2011 10:32	0.008
9660	0.008	0.008	0.009	0.009	10:33:59 AM	10/30/2011 10:33	0.009
9720	0.008	0.008	0.008	0.008	10:34:59 AM	10/30/2011 10:34	0.008
9780	0.007	0.007	0.008	0.008	10:35:59 AM	10/30/2011 10:35	0.008
9840	0.007	0.007	0.008	0.008	10:36:59 AM	10/30/2011 10:36	0.008
9900	0.008	0.009	0.009	0.009	10:37:59 AM	10/30/2011 10:37	0.009
9960	0.008	0.008	0.009	0.009	10:38:59 AM	10/30/2011 10:38	0.009
10020	0.008	0.008	0.008	0.009	10:39:59 AM	10/30/2011 10:39	0.009
10080	0.01	0.01	0.01	0.011	10:40:59 AM	10/30/2011 10:40	0.011
10140	0.01	0.01	0.01	0.01	10:41:59 AM	10/30/2011 10:41	0.01
10200	0.011	0.011	0.011	0.011	10:42:59 AM	10/30/2011 10:42	0.011
10260	0.011	0.011	0.011	0.011	10:43:59 AM	10/30/2011 10:43	0.011
10320	0.011	0.012	0.012	0.012	10:44:59 AM	10/30/2011 10:44	0.012
10380	0.011	0.011	0.011	0.011	10:45:59 AM	10/30/2011 10:45	0.012
10440	0.011	0.011	0.011	0.012	10:46:59 AM	10/30/2011 10:46	0.012
10500	0.01	0.011	0.011	0.012	10:47:59 AM	10/30/2011 10:47	0.012
10560	0.023	0.023	0.023	0.024	10:48:59 AM	10/30/2011 10:48	0.024
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10680	0.009	0.01	0.01	0.01	10:50:59 AM	10/30/2011 10:50	0.01
10740	0.01	0.01	0.011	0.011	10:51:59 AM	10/30/2011 10:51	0.011
10800	0.009	0.01	0.01	0.01	10:52:59 AM	10/30/2011 10:52	0.01
10860	0.008	0.008	0.009	0.009	10:53:59 AM	10/30/2011 10:53	0.009
10920	0.01	0.01	0.01	0.011	10:54:59 AM	10/30/2011 10:54	0.011
10980	0.009	0.009	0.009	0.009	10:55:59 AM	10/30/2011 10:55	0.009
11040	0.008	0.009	0.009	0.009	10:56:59 AM	10/30/2011 10:56	0.009
11100	0.009	0.009	0.01	0.01	10:57:59 AM	10/30/2011 10:57	0.01
11160	0.01	0.01	0.01	0.011	10:58:59 AM	10/30/2011 10:58	0.011
11220	0.01	0.01	0.01	0.01	10:59:59 AM	10/30/2011 10:59	0.01
11280	0.009	0.009	0.009	0.009	11:00:59 AM	10/30/2011 11:00	0.009
11340	0.01	0.01	0.01	0.01	11:01:59 AM	10/30/2011 11:01	0.011
11400	0.01	0.01	0.01	0.01	11:02:59 AM	10/30/2011 11:02	0.01
11460	0.008	0.008	0.008	0.008	11:03:59 AM	10/30/2011 11:03	0.008
11520	0.009	0.009	0.009	0.01	11:04:59 AM	10/30/2011 11:04	0.01
11580	0.009	0.009	0.009	0.009	11:05:59 AM	10/30/2011 11:05	0.009
11640	0.009	0.009	0.009	0.01	11:06:59 AM	10/30/2011 11:06	0.01
11700	0.01	0.01	0.01	0.01	11:07:59 AM	10/30/2011 11:07	0.01
11760	0.009	0.009	0.009	0.009	11:08:59 AM	10/30/2011 11:08	0.009
11820	0.009	0.009	0.009	0.01	11:09:59 AM	10/30/2011 11:09	0.01
11880	0.009	0.009	0.009	0.01	11:10:59 AM	10/30/2011 11:10	0.01
11940	0.008	0.009	0.009	0.009	11:11:59 AM	10/30/2011 11:11	0.009
12000	0.008	0.008	0.009	0.009	11:12:59 AM	10/30/2011 11:12	0.009
12060	0.008	0.008	0.008	0.008	11:13:59 AM	10/30/2011 11:13	0.008
12120	0.008	0.008	0.008	0.008	11:14:59 AM	10/30/2011 11:14	0.008
12180	0.008	0.008	0.008	0.008	11:15:59 AM	10/30/2011 11:15	0.009
12240	0.009	0.009	0.009	0.01	11:16:59 AM	10/30/2011 11:16	0.01
12300	0.008	0.008	0.008	0.008	11:17:59 AM	10/30/2011 11:17	0.008
12360	0.01	0.011	0.011	0.011	11:18:59 AM	10/30/2011 11:18	0.011
12420	0.009	0.009	0.009	0.009	11:19:59 AM	10/30/2011 11:19	0.009
12480	0.008	0.008	0.008	0.008	11:20:59 AM	10/30/2011 11:20	0.009
12540	0.011	0.011	0.012	0.012	11:21:59 AM	10/30/2011 11:21	0.012
12600	0.009	0.009	0.009	0.009	11:22:59 AM	10/30/2011 11:22	0.009
12660	0.009	0.009	0.009	0.01	11:23:59 AM	10/30/2011 11:23	0.01
12720	0.009	0.009	0.009	0.01	11:24:59 AM	10/30/2011 11:24	0.01
12780	0.007	0.007	0.008	0.008	11:25:59 AM	10/30/2011 11:25	0.008
12840	0.008	0.008	0.008	0.009	11:26:59 AM	10/30/2011 11:26	0.009
12900	0.009	0.009	0.009	0.009	11:27:59 AM	10/30/2011 11:27	0.009
12960	0.009	0.009	0.009	0.009	11:28:59 AM	10/30/2011 11:28	0.009
13020	0.009	0.009	0.009	0.009	11:29:59 AM	10/30/2011 11:29	0.009
13080	0.01	0.01	0.01	0.01	11:30:59 AM	10/30/2011 11:30	0.01
13140	0.009	0.009	0.009	0.009	11:31:59 AM	10/30/2011 11:31	0.009
13200	0.009	0.01	0.01	0.01	11:32:59 AM	10/30/2011 11:32	0.01
13260	0.008	0.008	0.008	0.009	11:33:59 AM	10/30/2011 11:33	0.009
13320	0.009	0.01	0.01	0.01	11:34:59 AM	10/30/2011 11:34	0.01
13380	0.01	0.01	0.01	0.011	11:35:59 AM	10/30/2011 11:35	0.011
13440	0.009	0.009	0.009	0.009	11:36:59 AM	10/30/2011 11:36	0.009
13500	0.01	0.01	0.01	0.011	11:37:59 AM	10/30/2011 11:37	0.011
13560	0.01	0.01	0.011	0.011	11:38:59 AM	10/30/2011 11:38	0.011
13620	0.009	0.01	0.01	0.01	11:39:59 AM	10/30/2011 11:39	0.01
13680	0.009	0.009	0.009	0.009	11:40:59 AM	10/30/2011 11:40	0.009
13740	0.009	0.009	0.009	0.009	11:41:59 AM	10/30/2011 11:41	0.009
13800	0.01	0.01	0.01	0.01	11:42:59 AM	10/30/2011 11:42	0.01
13860	0.009	0.009	0.009	0.009	11:43:59 AM	10/30/2011 11:43	0.01
13920	0.009	0.01	0.01	0.01	11:44:59 AM	10/30/2011 11:44	0.01
13980	0.01	0.01	0.01	0.01	11:45:59 AM	10/30/2011 11:45	0.01
14040	0.01	0.01	0.01	0.011	11:46:59 AM	10/30/2011 11:46	0.011
14100	0.012	0.012	0.012	0.013	11:47:59 AM	10/30/2011 11:47	0.013
14160	0.01	0.01	0.01	0.01	11:48:59 AM	10/30/2011 11:48	0.01

14220	0.01	0.01	0.01	0.01	11:49:59 AM	10/30/2011 11:49	0.01
14280	0.01	0.011	0.011	0.011	11:50:59 AM	10/30/2011 11:50	0.011
14340	0.012	0.012	0.013	0.013	11:51:59 AM	10/30/2011 11:51	0.013
14400	0.01	0.01	0.011	0.012	11:52:59 AM	10/30/2011 11:52	0.012
14460	0.013	0.013	0.014	0.014	11:53:59 AM	10/30/2011 11:53	0.014
14520	0.01	0.01	0.01	0.011	11:54:59 AM	10/30/2011 11:54	0.011
14580	0.011	0.011	0.011	0.012	11:55:59 AM	10/30/2011 11:55	0.012
14640	0.01	0.011	0.011	0.011	11:56:59 AM	10/30/2011 11:56	0.011
14700	0.011	0.011	0.011	0.012	11:57:59 AM	10/30/2011 11:57	0.012
14760	0.012	0.012	0.012	0.012	11:58:59 AM	10/30/2011 11:58	0.012
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14880	0.011	0.011	0.011	0.011	12:00:59 PM	10/30/2011 12:00	0.011
14940	0.012	0.012	0.012	0.013	12:01:59 PM	10/30/2011 12:01	0.013
15000	0.011	0.011	0.012	0.012	12:02:59 PM	10/30/2011 12:02	0.012
15060	0.01	0.01	0.011	0.011	12:03:59 PM	10/30/2011 12:03	0.011
15120	0.01	0.01	0.01	0.011	12:04:59 PM	10/30/2011 12:04	0.011
15180	0.01	0.011	0.011	0.011	12:05:59 PM	10/30/2011 12:05	0.011
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15300	0.01	0.01	0.01	0.011	12:07:59 PM	10/30/2011 12:07	0.011
15360	0.012	0.012	0.012	0.012	12:08:59 PM	10/30/2011 12:08	0.012
15420	0.01	0.01	0.01	0.011	12:09:59 PM	10/30/2011 12:09	0.011
15480	0.017	0.017	0.017	0.018	12:10:59 PM	10/30/2011 12:10	0.018
15540	0.01	0.01	0.01	0.011	12:11:59 PM	10/30/2011 12:11	0.011
15600	0.01	0.01	0.01	0.011	12:12:59 PM	10/30/2011 12:12	0.011
15660	0.01	0.01	0.01	0.01	12:13:59 PM	10/30/2011 12:13	0.01
15720	0.011	0.011	0.011	0.012	12:14:59 PM	10/30/2011 12:14	0.012
15780	0.009	0.009	0.01	0.01	12:15:59 PM	10/30/2011 12:15	0.01
15840	0.01	0.01	0.01	0.011	12:16:59 PM	10/30/2011 12:16	0.011
15900	0.013	0.014	0.014	0.015	12:17:59 PM	10/30/2011 12:17	0.015
15960	0.01	0.01	0.01	0.011	12:18:59 PM	10/30/2011 12:18	0.011
16020	0.01	0.01	0.01	0.011	12:19:59 PM	10/30/2011 12:19	0.011
16080	0.011	0.011	0.012	0.012	12:20:59 PM	10/30/2011 12:20	0.012
16140	0.01	0.011	0.011	0.011	12:21:59 PM	10/30/2011 12:21	0.011
16200	0.01	0.01	0.011	0.011	12:22:59 PM	10/30/2011 12:22	0.011
16260	0.01	0.01	0.011	0.011	12:23:59 PM	10/30/2011 12:23	0.011
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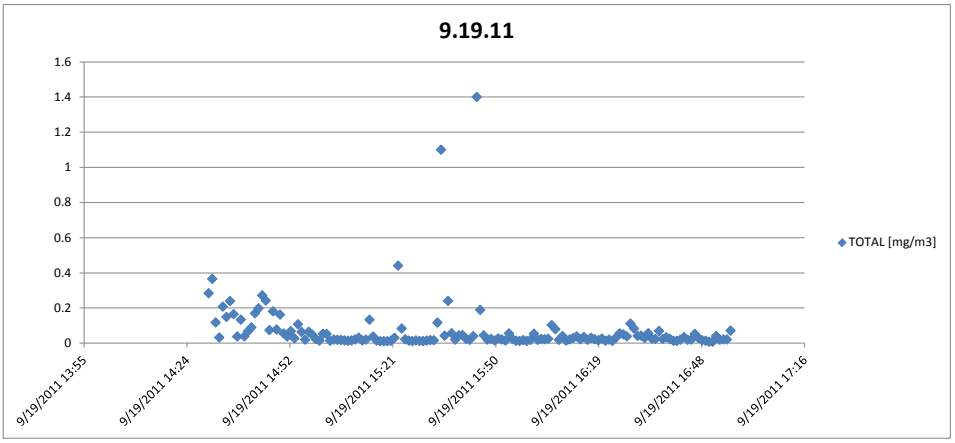
16380	0.01	0.01	0.01	0.01	12:25:59 PM	10/30/2011 12:25	0.01
16440	0.009	0.009	0.009	0.01	12:26:59 PM	10/30/2011 12:26	0.01
16500	0.009	0.009	0.009	0.01	12:27:59 PM	10/30/2011 12:27	0.01
16560	0.009	0.009	0.009	0.009	12:28:59 PM	10/30/2011 12:28	0.009
16620	0.009	0.009	0.009	0.009	12:29:59 PM	10/30/2011 12:29	0.009
16680	0.009	0.009	0.009	0.009	12:30:59 PM	10/30/2011 12:30	0.01
16740	0.009	0.009	0.009	0.009	12:31:59 PM	10/30/2011 12:31	0.009
16800	0.009	0.009	0.009	0.009	12:32:59 PM	10/30/2011 12:32	0.009
16860	0.009	0.009	0.009	0.01	12:33:59 PM	10/30/2011 12:33	0.01
16920	0.009	0.009	0.009	0.01	12:34:59 PM	10/30/2011 12:34	0.01
16980	0.009	0.009	0.009	0.009	12:35:59 PM	10/30/2011 12:35	0.009
17040	0.009	0.009	0.009	0.009	12:36:59 PM	10/30/2011 12:36	0.01
17100	0.008	0.008	0.008	0.008	12:37:59 PM	10/30/2011 12:37	0.008
17160	0.008	0.009	0.009	0.009	12:38:59 PM	10/30/2011 12:38	0.009
17220	0.009	0.009	0.009	0.01	12:39:59 PM	10/30/2011 12:39	0.01
17280	0.009	0.009	0.009	0.009	12:40:59 PM	10/30/2011 12:40	0.009
17340	0.009	0.009	0.009	0.01	12:41:59 PM	10/30/2011 12:41	0.01
17400	0.009	0.009	0.009	0.01	12:42:59 PM	10/30/2011 12:42	0.01
17460	0.008	0.008	0.008	0.009	12:43:59 PM	10/30/2011 12:43	0.009
17520	0.009	0.009	0.009	0.009	12:44:59 PM	10/30/2011 12:44	0.009
17580	0.008	0.009	0.009	0.009	12:45:59 PM	10/30/2011 12:45	0.009
17640	0.008	0.009	0.009	0.009	12:46:59 PM	10/30/2011 12:46	0.009
17700	0.009	0.009	0.009	0.01	12:47:59 PM	10/30/2011 12:47	0.01
17760	0.008	0.008	0.009	0.009	12:48:59 PM	10/30/2011 12:48	0.009
17820	0.008	0.008	0.008	0.008	12:49:59 PM	10/30/2011 12:49	0.009
17880	0.007	0.007	0.007	0.008	12:50:59 PM	10/30/2011 12:50	0.008
17940	0.007	0.007	0.007	0.008	12:51:59 PM	10/30/2011 12:51	0.008
18000	0.008	0.008	0.008	0.009	12:52:59 PM	10/30/2011 12:52	0.009
18060	0.008	0.008	0.008	0.008	12:53:59 PM	10/30/2011 12:53	0.008
18120	0.01	0.01	0.01	0.011	12:54:59 PM	10/30/2011 12:54	0.011
18180	0.01	0.01	0.01	0.01	12:55:59 PM	10/30/2011 12:55	0.011
18240	0.008	0.008	0.008	0.008	12:56:59 PM	10/30/2011 12:56	0.008
18300	0.008	0.008	0.008	0.008	12:57:59 PM	10/30/2011 12:57	0.008
18360	0.008	0.008	0.008	0.009	12:58:59 PM	10/30/2011 12:58	0.009
18420	0.008	0.009	0.009	0.009	12:59:59 PM	10/30/2011 12:59	0.009
18480	0.008	0.008	0.008	0.008	1:00:59 PM	10/30/2011 13:00	0.008
18540	0.009	0.009	0.009	0.01	1:01:59 PM	10/30/2011 13:01	0.01
18600	0.008	0.008	0.008	0.009	1:02:59 PM	10/30/2011 13:02	0.009
18660	0.008	0.008	0.008	0.009	1:03:59 PM	10/30/2011 13:03	0.009
18720	0.008	0.008	0.008	0.009	1:04:59 PM	10/30/2011 13:04	0.009
18780	0.008	0.008	0.008	0.008	1:05:59 PM	10/30/2011 13:05	0.008
18840	0.007	0.008	0.008	0.008	1:06:59 PM	10/30/2011 13:06	0.008
18900	0.007	0.008	0.008	0.008	1:07:59 PM	10/30/2011 13:07	0.008
18960	0.01	0.01	0.011	0.011	1:08:59 PM	10/30/2011 13:08	0.011
19020	0.009	0.009	0.009	0.009	1:09:59 PM	10/30/2011 13:09	0.01
19080	0.008	0.009	0.009	0.009	1:10:59 PM	10/30/2011 13:10	0.009
19140	0.008	0.009	0.009	0.009	1:11:59 PM	10/30/2011 13:11	0.009
19200	0.009	0.009	0.009	0.01	1:12:59 PM	10/30/2011 13:12	0.01
19260	0.007	0.007	0.007	0.008	1:13:59 PM	10/30/2011 13:13	0.008
19320	0.008	0.008	0.008	0.009	1:14:59 PM	10/30/2011 13:14	0.009
19380	0.008	0.008	0.008	0.008	1:15:59 PM	10/30/2011 13:15	0.008
19440	0.01	0.01	0.01	0.011	1:16:59 PM	10/30/2011 13:16	0.011
19500	0.008	0.008	0.008	0.008	1:17:59 PM	10/30/2011 13:17	0.008
19560	0.008	0.008	0.008	0.009	1:18:59 PM	10/30/2011 13:18	0.009
19620	0.008	0.008	0.008	0.008	1:19:59 PM	10/30/2011 13:19	0.008

19680	0.007	0.007	0.008	0.008	1:20:59 PM	10/30/2011 13:20	0.008
19740	0.008	0.008	0.008	0.009	1:21:59 PM	10/30/2011 13:21	0.009
19800	0.007	0.007	0.007	0.008	1:22:59 PM	10/30/2011 13:22	0.008
19860	0.008	0.008	0.008	0.009	1:23:59 PM	10/30/2011 13:23	0.009
19920	0.008	0.008	0.008	0.008	1:24:59 PM	10/30/2011 13:24	0.008
19980	0.008	0.008	0.009	0.009	1:25:59 PM	10/30/2011 13:25	0.009
20040	0.008	0.009	0.009	0.009	1:26:59 PM	10/30/2011 13:26	0.009
20100	0.008	0.008	0.008	0.008	1:27:59 PM	10/30/2011 13:27	0.008
20160	0.008	0.008	0.009	0.009	1:28:59 PM	10/30/2011 13:28	0.009
20220	0.007	0.007	0.008	0.008	1:29:59 PM	10/30/2011 13:29	0.008
20280	0.007	0.008	0.008	0.008	1:30:59 PM	10/30/2011 13:30	0.008
20340	0.007	0.007	0.007	0.008	1:31:59 PM	10/30/2011 13:31	0.008
20400	0.007	0.007	0.007	0.008	1:32:59 PM	10/30/2011 13:32	0.008
20460	0.007	0.007	0.007	0.008	1:33:59 PM	10/30/2011 13:33	0.008
20520	0.007	0.007	0.007	0.008	1:34:59 PM	10/30/2011 13:34	0.008
20580	0.007	0.007	0.007	0.008	1:35:59 PM	10/30/2011 13:35	0.008
20640	0.007	0.007	0.007	0.007	1:36:59 PM	10/30/2011 13:36	0.007
20700	0.006	0.006	0.007	0.007	1:37:59 PM	10/30/2011 13:37	0.007
20760	0.007	0.007	0.007	0.008	1:38:59 PM	10/30/2011 13:38	0.008
20820	0.007	0.007	0.007	0.007	1:39:59 PM	10/30/2011 13:39	0.008
20880	0.008	0.008	0.008	0.009	1:40:59 PM	10/30/2011 13:40	0.009
20940	0.007	0.007	0.008	0.008	1:41:59 PM	10/30/2011 13:41	0.008
21000	0.005	0.005	0.006	0.006	1:42:59 PM	10/30/2011 13:42	0.006
21060	0.006	0.006	0.006	0.007	1:43:59 PM	10/30/2011 13:43	0.007
21120	0.006	0.007	0.007	0.007	1:44:59 PM	10/30/2011 13:44	0.007
21180	0.009	0.009	0.009	0.009	1:45:59 PM	10/30/2011 13:45	0.009
21240	0.007	0.007	0.007	0.008	1:46:59 PM	10/30/2011 13:46	0.008
21300	0.007	0.007	0.007	0.008	1:47:59 PM	10/30/2011 13:47	0.008
21360	0.007	0.007	0.007	0.008	1:48:59 PM	10/30/2011 13:48	0.008
21420	0.007	0.007	0.007	0.008	1:49:59 PM	10/30/2011 13:49	0.008
21480	0.007	0.007	0.007	0.007	1:50:59 PM	10/30/2011 13:50	0.007
21540	0.006	0.006	0.006	0.007	1:51:59 PM	10/30/2011 13:51	0.007
21600	0.007	0.007	0.008	0.008	1:52:59 PM	10/30/2011 13:52	0.008
21660	0.008	0.008	0.008	0.008	1:53:59 PM	10/30/2011 13:53	0.009
21720	0.008	0.008	0.008	0.009	1:54:59 PM	10/30/2011 13:54	0.009
21780	0.007	0.007	0.007	0.008	1:55:59 PM	10/30/2011 13:55	0.008
21840	0.007	0.007	0.008	0.009	1:56:59 PM	10/30/2011 13:56	0.009
21900	0.007	0.007	0.007	0.008	1:57:59 PM	10/30/2011 13:57	0.008
21960	0.007	0.007	0.007	0.007	1:58:59 PM	10/30/2011 13:58	0.007
22020	0.008	0.008	0.008	0.009	1:59:59 PM	10/30/2011 13:59	0.009
22080	0.006	0.006	0.007	0.007	2:00:59 PM	10/30/2011 14:00	0.007
22140	0.006	0.007	0.007	0.007	2:01:59 PM	10/30/2011 14:01	0.007
22200	0.007	0.008	0.008	0.008	2:02:59 PM	10/30/2011 14:02	0.008
22260	0.007	0.007	0.007	0.007	2:03:59 PM	10/30/2011 14:03	0.007
22320	0.007	0.007	0.007	0.007	2:04:59 PM	10/30/2011 14:04	0.007
22380	0.006	0.007	0.007	0.007	2:05:59 PM	10/30/2011 14:05	0.007
22440	0.008	0.008	0.008	0.009	2:06:59 PM	10/30/2011 14:06	0.009
22500	0.006	0.007	0.007	0.007	2:07:59 PM	10/30/2011 14:07	0.007
22560	0.006	0.006	0.006	0.007	2:08:59 PM	10/30/2011 14:08	0.007
22620	0.006	0.006	0.006	0.007	2:09:59 PM	10/30/2011 14:09	0.007
22680	0.007	0.007	0.008	0.008	2:10:59 PM	10/30/2011 14:10	0.008
22740	0.007	0.007	0.007	0.007	2:11:59 PM	10/30/2011 14:11	0.007
22800	0.007	0.007	0.007	0.008	2:12:59 PM	10/30/2011 14:12	0.008
22860	0.007	0.007	0.007	0.007	2:13:59 PM	10/30/2011 14:13	0.007
22920	0.007	0.007	0.007	0.008	2:14:59 PM	10/30/2011 14:14	0.008
22980	0.007	0.007	0.008	0.008	2:15:59 PM	10/30/2011 14:15	0.008
23040	0.008	0.008	0.008	0.009	2:16:59 PM	10/30/2011 14:16	0.009
23100	0.008	0.008	0.009	0.009	2:17:59 PM	10/30/2011 14:17	0.009
23160	0.008	0.008	0.008	0.009	2:18:59 PM	10/30/2011 14:18	0.009
23220	0.007	0.007	0.007	0.008	2:19:59 PM	10/30/2011 14:19	0.008
23280	0.008	0.008	0.009	0.009	2:20:59 PM	10/30/2011 14:20	0.009
23340	0.008	0.008	0.008	0.009	2:21:59 PM	10/30/2011 14:21	0.009
23400	0.007	0.007	0.007	0.008	2:22:59 PM	10/30/2011 14:22	0.008
23460	0.008	0.008	0.008	0.008	2:23:59 PM	10/30/2011 14:23	0.008
23520	0.006	0.006	0.006	0.006	2:24:59 PM	10/30/2011 14:24	0.006
23580	0.008	0.008	0.008	0.008	2:25:59 PM	10/30/2011 14:25	0.008
23640	0.006	0.006	0.006	0.007	2:26:59 PM	10/30/2011 14:26	0.007
23700	0.007	0.007	0.007	0.008	2:27:59 PM	10/30/2011 14:27	0.008
23760	0.007	0.007	0.007	0.008	2:28:59 PM	10/30/2011 14:28	0.008
23820	0.007	0.007	0.007	0.008	2:29:59 PM	10/30/2011 14:29	0.008
23880	0.006	0.006	0.007	0.007	2:30:59 PM	10/30/2011 14:30	0.007
23940	0.007	0.007	0.007	0.007	2:31:59 PM	10/30/2011 14:31	0.007
24000	0.006	0.006	0.006	0.007	2:32:59 PM	10/30/2011 14:32	0.007
24060	0.006	0.006	0.006	0.006	2:33:59 PM	10/30/2011 14:33	0.006
24120	0.007	0.007	0.007	0.008	2:34:59 PM	10/30/2011 14:34	0.008
24180	0.007	0.007	0.007	0.007	2:35:59 PM	10/30/2011 14:35	0.007
24240	0.006	0.006	0.006	0.006	2:36:59 PM	10/30/2011 14:36	0.006
24300	0.009	0.009	0.009	0.01	2:37:59 PM	10/30/2011 14:37	0.01
24360	0.008	0.008	0.008	0.008	2:38:59 PM	10/30/2011 14:38	0.008
24420	0.006	0.006	0.006	0.007	2:39:59 PM	10/30/2011 14:39	0.007
24480	0.006	0.006	0.006	0.006	2:40:59 PM	10/30/2011 14:40	0.006
24540	0.007	0.007	0.007	0.007	2:41:59 PM	10/30/2011 14:41	0.008
24600	0.006	0.006	0.006	0.007	2:42:59 PM	10/30/2011 14:42	0.007
24660	0.006	0.006	0.006	0.006	2:43:59 PM	10/30/2011 14:43	0.006
24720	0.006	0.006	0.007	0.007	2:44:59 PM	10/30/2011 14:44	0.007
24780	0.006	0.006	0.006	0.006	2:45:59 PM	10/30/2011 14:45	0.006
24840	0.007	0.007	0.007	0.007	2:46:59 PM	10/30/2011 14:46	0.008
24900	0.006	0.006	0.006	0.007	2:47:59 PM	10/30/2011 14:47	0.007
24960	0.007	0.007	0.007	0.008	2:48:59 PM	10/30/2011 14:48	0.008
25020	0.006	0.006	0.006	0.007	2:49:59 PM	10/30/2011 14:49	0.007
25080	0.007	0.007	0.007	0.008	2:50:59 PM	10/30/2011 14:50	0.008

25140	0.006	0.006	0.006	0.006	2:51:59 PM	10/30/2011 14:51	0.006
25200	0.006	0.006	0.007	0.007	2:52:59 PM	10/30/2011 14:52	0.007
25260	0.006	0.007	0.007	0.007	2:53:59 PM	10/30/2011 14:53	0.007
25320	0.009	0.009	0.009	0.011	2:54:59 PM	10/30/2011 14:54	0.011
25380	0.008	0.008	0.009	0.009	2:55:59 PM	10/30/2011 14:55	0.009
25440	0.007	0.007	0.007	0.007	2:56:59 PM	10/30/2011 14:56	0.007
25500	0.008	0.008	0.008	0.008	2:57:59 PM	10/30/2011 14:57	0.008
25560	0.007	0.007	0.007	0.008	2:58:59 PM	10/30/2011 14:58	0.008
25620	0.006	0.006	0.007	0.007	2:59:59 PM	10/30/2011 14:59	0.007
25680	0.007	0.007	0.007	0.008	3:00:59 PM	10/30/2011 15:00	0.008
25740	0.008	0.008	0.008	0.008	3:01:59 PM	10/30/2011 15:01	0.009
25800	0.007	0.007	0.007	0.007	3:02:59 PM	10/30/2011 15:02	0.007
25860	0.007	0.007	0.008	0.008	3:03:59 PM	10/30/2011 15:03	0.008
25920	0.008	0.008	0.008	0.009	3:04:59 PM	10/30/2011 15:04	0.009
25980	0.006	0.006	0.007	0.007	3:05:59 PM	10/30/2011 15:05	0.007
26040	0.007	0.007	0.007	0.007	3:06:59 PM	10/30/2011 15:06	0.007
26100	0.007	0.007	0.007	0.008	3:07:59 PM	10/30/2011 15:07	0.008
26160	0.007	0.007	0.007	0.007	3:08:59 PM	10/30/2011 15:08	0.007
26220	0.007	0.007	0.007	0.008	3:09:59 PM	10/30/2011 15:09	0.008
26280	0.008	0.008	0.008	0.009	3:10:59 PM	10/30/2011 15:10	0.009
26340	0.009	0.009	0.009	0.01	3:11:59 PM	10/30/2011 15:11	0.01
26400	0.008	0.008	0.008	0.009	3:12:59 PM	10/30/2011 15:12	0.009
26460	0.008	0.008	0.008	0.009	3:13:59 PM	10/30/2011 15:13	0.009
26520	0.008	0.008	0.008	0.008	3:14:59 PM	10/30/2011 15:14	0.008
26580	0.009	0.009	0.009	0.009	3:15:59 PM	10/30/2011 15:15	0.009
26640	0.008	0.008	0.008	0.008	3:16:59 PM	10/30/2011 15:16	0.008
26700	0.008	0.008	0.008	0.008	3:17:59 PM	10/30/2011 15:17	0.008
26760	0.008	0.008	0.009	0.009	3:18:59 PM	10/30/2011 15:18	0.009
26820	0.008	0.008	0.008	0.009	3:19:59 PM	10/30/2011 15:19	0.009
26880	0.007	0.007	0.007	0.007	3:20:59 PM	10/30/2011 15:20	0.007
26940	0.013	0.013	0.014	0.014	3:21:59 PM	10/30/2011 15:21	0.015
27000	0.028	0.028	0.028	0.029	3:22:59 PM	10/30/2011 15:22	0.029
27060	0.009	0.009	0.009	0.01	3:23:59 PM	10/30/2011 15:23	0.01
27120	0.008	0.008	0.009	0.01	3:24:59 PM	10/30/2011 15:24	0.01
27180	0.007	0.008	0.008	0.008	3:25:59 PM	10/30/2011 15:25	0.008
27240	0.025	0.025	0.026	0.026	3:26:59 PM	10/30/2011 15:26	0.026
27300	0.015	0.015	0.015	0.016	3:27:59 PM	10/30/2011 15:27	0.017
27360	0.01	0.01	0.011	0.012	3:28:59 PM	10/30/2011 15:28	0.012
27420	0.008	0.008	0.008	0.009	3:29:59 PM	10/30/2011 15:29	0.009
27480	0.008	0.008	0.009	0.009	3:30:59 PM	10/30/2011 15:30	0.009

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_001
Test Start Time	14:29:04
Test Start Date	9/19/2011
Test Length [D:H:M]	0:02:27
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.029
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.475
PM1 TWA [mg/m3]	0.009
PM2.5 Average [mg/m3]	0.031
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.519
PM2.5 TWA [mg/m3]	0.01
PM4 Average [mg/m3]	0.038
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.665
PM4 TWA [mg/m3]	0.012
PM10 Average [mg/m3]	0.066
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	1.32
PM10 TWA [mg/m3]	0.02
TOTAL Average [mg/m3]	0.072
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	1.4
TOTAL TWA [mg/m3]	0.022
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	147

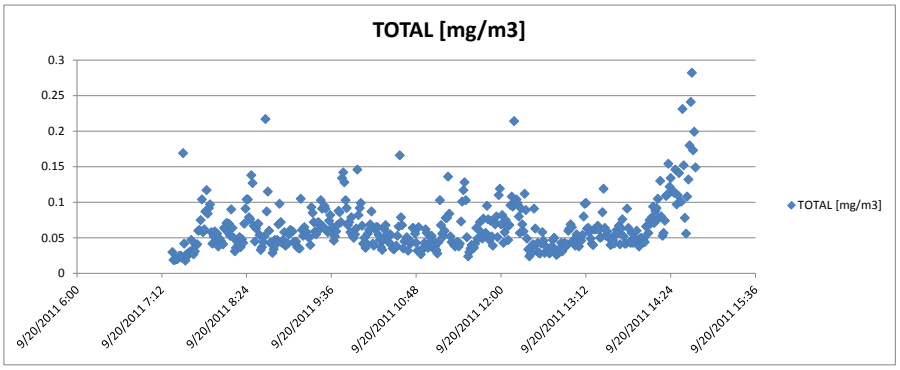


Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	Time/Date	TOTAL [mg/m3]	2:29:04 PM	Alarms	Errors
60	0.108	0.117	0.141	0.254	9/19/2011 14:30	0.283	2:30:04 PM		
120	0.122	0.131	0.162	0.33	9/19/2011 14:31	0.365	2:31:04 PM		
180	0.044	0.047	0.057	0.108	9/19/2011 14:32	0.117	2:32:04 PM		
240	0.016	0.017	0.019	0.029	9/19/2011 14:33	0.032	2:33:04 PM		
300	0.073	0.078	0.095	0.19	9/19/2011 14:34	0.207	2:34:04 PM		
360	0.054	0.057	0.068	0.132	9/19/2011 14:35	0.149	2:35:04 PM		
420	0.097	0.107	0.133	0.223	9/19/2011 14:36	0.239	2:36:04 PM		
480	0.066	0.073	0.091	0.153	9/19/2011 14:37	0.165	2:37:04 PM		
540	0.019	0.02	0.023	0.034	9/19/2011 14:38	0.037	2:38:04 PM		
600	0.049	0.053	0.065	0.122	9/19/2011 14:39	0.133	2:39:04 PM		
660	0.018	0.019	0.022	0.036	9/19/2011 14:40	0.038	2:40:04 PM		
720	0.027	0.029	0.034	0.06	9/19/2011 14:41	0.066	2:41:04 PM		
780	0.035	0.037	0.044	0.078	9/19/2011 14:42	0.089	2:42:04 PM		
840	0.06	0.065	0.08	0.154	9/19/2011 14:43	0.169	2:43:04 PM		
900	0.077	0.085	0.104	0.183	9/19/2011 14:44	0.198	2:44:04 PM		
960	0.106	0.117	0.146	0.251	9/19/2011 14:45	0.271	2:45:04 PM		
1020	0.096	0.102	0.119	0.201	9/19/2011 14:46	0.242	2:46:04 PM		
1080	0.029	0.032	0.038	0.065	9/19/2011 14:47	0.074	2:47:04 PM		
1140	0.066	0.071	0.088	0.166	9/19/2011 14:48	0.18	2:48:04 PM		
1200	0.031	0.034	0.041	0.072	9/19/2011 14:49	0.077	2:49:04 PM		
1260	0.057	0.061	0.076	0.145	9/19/2011 14:50	0.162	2:50:04 PM		
1320	0.023	0.025	0.029	0.05	9/19/2011 14:51	0.055	2:51:04 PM		
1380	0.017	0.018	0.021	0.035	9/19/2011 14:52	0.037	2:52:04 PM		
1440	0.026	0.027	0.032	0.06	9/19/2011 14:53	0.068	2:53:04 PM		
1500	0.012	0.013	0.015	0.024	9/19/2011 14:54	0.027	2:54:04 PM		
1560	0.038	0.04	0.049	0.095	9/19/2011 14:55	0.107	2:55:04 PM		
1620	0.024	0.026	0.031	0.057	9/19/2011 14:56	0.063	2:56:04 PM		
1680	0.013	0.014	0.015	0.019	9/19/2011 14:57	0.02	2:57:04 PM		
1740	0.024	0.026	0.03	0.056	9/19/2011 14:58	0.064	2:58:04 PM		
1800	0.021	0.022	0.026	0.043	9/19/2011 14:59	0.048	2:59:04 PM		
1860	0.012	0.013	0.014	0.021	9/19/2011 15:00	0.023	3:00:04 PM		
1920	0.009	0.01	0.011	0.014	9/19/2011 15:01	0.014	3:01:04 PM		
1980	0.022	0.023	0.027	0.047	9/19/2011 15:02	0.052	3:02:04 PM		
2040	0.021	0.023	0.027	0.048	9/19/2011 15:03	0.052	3:03:04 PM		
2100	0.009	0.01	0.01	0.013	9/19/2011 15:04	0.013	3:04:04 PM		
2160	0.012	0.013	0.014	0.019	9/19/2011 15:05	0.02	3:05:04 PM		
2220	0.012	0.012	0.013	0.018	9/19/2011 15:06	0.019	3:06:04 PM		
2280	0.011	0.011	0.012	0.017	9/19/2011 15:07	0.018	3:07:04 PM		
2340	0.009	0.01	0.011	0.014	9/19/2011 15:08	0.015	3:08:04 PM		
2400	0.009	0.01	0.011	0.013	9/19/2011 15:09	0.013	3:09:04 PM		
2460	0.009	0.01	0.011	0.014	9/19/2011 15:10	0.015	3:10:04 PM		
2520	0.011	0.011	0.013	0.02	9/19/2011 15:11	0.021	3:11:04 PM		
2580	0.016	0.016	0.018	0.029	9/19/2011 15:12	0.031	3:12:04 PM		
2640	0.01	0.01	0.011	0.014	9/19/2011 15:13	0.015	3:13:04 PM		
2700	0.012	0.013	0.014	0.019	9/19/2011 15:14	0.02	3:14:04 PM		
2760	0.048	0.051	0.062	0.124	9/19/2011 15:15	0.133	3:15:04 PM		
2820	0.016	0.017	0.019	0.034	9/19/2011 15:16	0.037	3:16:04 PM		
2880	0.009	0.009	0.01	0.013	9/19/2011 15:17	0.014	3:17:04 PM		
2940	0.008	0.008	0.008	0.01	9/19/2011 15:18	0.01	3:18:04 PM		
3000	0.007	0.008	0.008	0.01	9/19/2011 15:19	0.01	3:19:04 PM		
3060	0.008	0.008	0.008	0.01	9/19/2011 15:20	0.01	3:20:04 PM		
3120	0.009	0.009	0.01	0.012	9/19/2011 15:21	0.013	3:21:04 PM		
3180	0.015	0.016	0.018	0.028	9/19/2011 15:22	0.03	3:22:04 PM		
3240	0.152	0.164	0.203	0.406	9/19/2011 15:23	0.44	3:23:04 PM		

3300	0.042	0.043	0.047	0.07	9/19/2011 15:24	0.083	3:24:04 PM
3360	0.012	0.012	0.014	0.019	9/19/2011 15:25	0.022	3:25:04 PM
3420	0.009	0.009	0.01	0.012	9/19/2011 15:26	0.014	3:26:04 PM
3480	0.008	0.008	0.009	0.011	9/19/2011 15:27	0.011	3:27:04 PM
3540	0.01	0.01	0.011	0.014	9/19/2011 15:28	0.015	3:28:04 PM
3600	0.008	0.009	0.009	0.011	9/19/2011 15:29	0.012	3:29:04 PM
3660	0.008	0.009	0.009	0.01	9/19/2011 15:30	0.011	3:30:04 PM
3720	0.01	0.011	0.011	0.014	9/19/2011 15:31	0.014	3:31:04 PM
3780	0.011	0.011	0.012	0.016	9/19/2011 15:32	0.017	3:32:04 PM
3840	0.011	0.011	0.012	0.015	9/19/2011 15:33	0.016	3:33:04 PM
3900	0.048	0.053	0.064	0.109	9/19/2011 15:34	0.116	3:34:04 PM
3960	0.415	0.467	0.61	1.06	9/19/2011 15:35	1.1	3:35:04 PM
4020	0.02	0.022	0.026	0.039	9/19/2011 15:36	0.042	3:36:04 PM
4080	0.092	0.102	0.129	0.227	9/19/2011 15:37	0.24	3:37:04 PM
4140	0.026	0.028	0.034	0.054	9/19/2011 15:38	0.056	3:38:04 PM
4200	0.011	0.012	0.014	0.018	9/19/2011 15:39	0.02	3:39:04 PM
4260	0.021	0.022	0.026	0.039	9/19/2011 15:40	0.044	3:40:04 PM
4320	0.021	0.022	0.026	0.042	9/19/2011 15:41	0.046	3:41:04 PM
4380	0.014	0.014	0.016	0.022	9/19/2011 15:42	0.024	3:42:04 PM
4440	0.011	0.011	0.013	0.017	9/19/2011 15:43	0.019	3:43:04 PM
4500	0.018	0.019	0.022	0.036	9/19/2011 15:44	0.039	3:44:04 PM
4560	0.475	0.519	0.665	1.32	9/19/2011 15:45	1.4	3:45:04 PM
4620	0.067	0.074	0.095	0.177	9/19/2011 15:46	0.189	3:46:04 PM
4680	0.018	0.02	0.023	0.042	9/19/2011 15:47	0.044	3:47:04 PM
4740	0.011	0.012	0.013	0.02	9/19/2011 15:48	0.02	3:48:04 PM
4800	0.011	0.012	0.013	0.022	9/19/2011 15:49	0.023	3:49:04 PM
4860	0.009	0.009	0.011	0.015	9/19/2011 15:50	0.015	3:50:04 PM
4920	0.014	0.015	0.016	0.024	9/19/2011 15:51	0.026	3:51:04 PM
4980	0.011	0.012	0.013	0.02	9/19/2011 15:52	0.021	3:52:04 PM
5040	0.009	0.009	0.01	0.013	9/19/2011 15:53	0.014	3:53:04 PM
5100	0.022	0.023	0.028	0.049	9/19/2011 15:54	0.055	3:54:04 PM
5160	0.013	0.014	0.015	0.023	9/19/2011 15:55	0.024	3:55:04 PM
5220	0.009	0.009	0.01	0.012	9/19/2011 15:56	0.013	3:56:04 PM
5280	0.008	0.009	0.009	0.012	9/19/2011 15:57	0.012	3:57:04 PM
5340	0.01	0.01	0.011	0.017	9/19/2011 15:58	0.017	3:58:04 PM
5400	0.008	0.008	0.009	0.011	9/19/2011 15:59	0.012	3:59:04 PM
5460	0.011	0.011	0.012	0.017	9/19/2011 16:00	0.018	4:00:04 PM
5520	0.022	0.023	0.026	0.048	9/19/2011 16:01	0.053	4:01:04 PM
5580	0.01	0.01	0.012	0.017	9/19/2011 16:02	0.019	4:02:04 PM
5640	0.011	0.012	0.013	0.02	9/19/2011 16:03	0.023	4:03:04 PM
5700	0.012	0.012	0.014	0.02	9/19/2011 16:04	0.022	4:04:04 PM
5760	0.013	0.013	0.015	0.023	9/19/2011 16:05	0.024	4:05:04 PM
5820	0.038	0.041	0.048	0.093	9/19/2011 16:06	0.102	4:06:04 PM
5880	0.029	0.031	0.038	0.071	9/19/2011 16:07	0.079	4:07:04 PM
5940	0.01	0.01	0.012	0.019	9/19/2011 16:08	0.019	4:08:04 PM
6000	0.017	0.018	0.021	0.038	9/19/2011 16:09	0.04	4:09:04 PM
6060	0.008	0.008	0.009	0.013	9/19/2011 16:10	0.014	4:10:04 PM
6120	0.01	0.011	0.012	0.02	9/19/2011 16:11	0.021	4:11:04 PM
6180	0.013	0.014	0.016	0.027	9/19/2011 16:12	0.029	4:12:04 PM
6240	0.016	0.017	0.02	0.035	9/19/2011 16:13	0.038	4:13:04 PM
6300	0.011	0.011	0.013	0.021	9/19/2011 16:14	0.022	4:14:04 PM
6360	0.015	0.016	0.019	0.031	9/19/2011 16:15	0.035	4:15:04 PM
6420	0.009	0.01	0.011	0.017	9/19/2011 16:16	0.019	4:16:04 PM
6480	0.013	0.013	0.015	0.027	9/19/2011 16:17	0.03	4:17:04 PM
6540	0.01	0.011	0.012	0.02	9/19/2011 16:18	0.022	4:18:04 PM
6600	0.009	0.009	0.01	0.015	9/19/2011 16:19	0.016	4:19:04 PM
6660	0.011	0.012	0.014	0.022	9/19/2011 16:20	0.025	4:20:04 PM
6720	0.008	0.008	0.009	0.013	9/19/2011 16:21	0.013	4:21:04 PM
6780	0.01	0.01	0.012	0.018	9/19/2011 16:22	0.02	4:22:04 PM
6840	0.008	0.008	0.009	0.012	9/19/2011 16:23	0.012	4:23:04 PM
6900	0.014	0.015	0.018	0.03	9/19/2011 16:24	0.032	4:24:04 PM
6960	0.021	0.022	0.027	0.049	9/19/2011 16:25	0.055	4:25:04 PM
7020	0.021	0.022	0.027	0.044	9/19/2011 16:26	0.049	4:26:04 PM
7080	0.017	0.018	0.021	0.037	9/19/2011 16:27	0.038	4:27:04 PM
7140	0.046	0.048	0.057	0.102	9/19/2011 16:28	0.111	4:28:04 PM
7200	0.03	0.032	0.04	0.076	9/19/2011 16:29	0.083	4:29:04 PM
7260	0.017	0.018	0.022	0.037	9/19/2011 16:30	0.041	4:30:04 PM
7320	0.017	0.018	0.021	0.037	9/19/2011 16:31	0.042	4:31:04 PM
7380	0.014	0.015	0.018	0.027	9/19/2011 16:32	0.029	4:32:04 PM
7440	0.023	0.025	0.03	0.053	9/19/2011 16:33	0.056	4:33:04 PM
7500	0.013	0.014	0.016	0.024	9/19/2011 16:34	0.025	4:34:04 PM
7560	0.012	0.013	0.015	0.021	9/19/2011 16:35	0.023	4:35:04 PM
7620	0.027	0.029	0.035	0.064	9/19/2011 16:36	0.069	4:36:04 PM
7680	0.012	0.012	0.014	0.021	9/19/2011 16:37	0.023	4:37:04 PM
7740	0.016	0.017	0.019	0.029	9/19/2011 16:38	0.033	4:38:04 PM
7800	0.012	0.013	0.014	0.023	9/19/2011 16:39	0.024	4:39:04 PM
7860	0.008	0.009	0.01	0.012	9/19/2011 16:40	0.013	4:40:04 PM
7920	0.007	0.008	0.009	0.01	9/19/2011 16:41	0.012	4:41:04 PM
7980	0.01	0.011	0.012	0.019	9/19/2011 16:42	0.02	4:42:04 PM
8040	0.017	0.018	0.02	0.03	9/19/2011 16:43	0.034	4:43:04 PM
8100	0.01	0.01	0.011	0.017	9/19/2011 16:44	0.019	4:44:04 PM
8160	0.01	0.011	0.012	0.018	9/19/2011 16:45	0.02	4:45:04 PM
8220	0.02	0.021	0.025	0.048	9/19/2011 16:46	0.052	4:46:04 PM
8280	0.013	0.014	0.016	0.026	9/19/2011 16:47	0.029	4:47:04 PM
8340	0.008	0.009	0.01	0.015	9/19/2011 16:48	0.016	4:48:04 PM
8400	0.008	0.008	0.009	0.012	9/19/2011 16:49	0.013	4:49:04 PM
8460	0.007	0.007	0.007	0.008	9/19/2011 16:50	0.008	4:50:04 PM
8520	0.006	0.007	0.007	0.008	9/19/2011 16:51	0.008	4:51:04 PM
8580	0.017	0.018	0.021	0.035	9/19/2011 16:52	0.04	4:52:04 PM
8640	0.01	0.01	0.012	0.018	9/19/2011 16:53	0.019	4:53:04 PM
8700	0.01	0.011	0.012	0.019	9/19/2011 16:54	0.021	4:54:04 PM

8760	0.011	0.012	0.013	0.019	9/19/2011 16:55	0.021	4:55:04 PM
8820	0.026	0.028	0.033	0.067	9/19/2011 16:56	0.071	4:56:04 PM

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_002
Test Start Time	7:20:10
Test Start Date	9/20/2011
Test Length [D:H:M]	0:07:25
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.044
PM1 Minimum [mg/m3]	0.014
PM1 Maximum [mg/m3]	0.209
PM1 TWA [mg/m3]	0.041
PM2.5 Average [mg/m3]	0.047
PM2.5 Minimum [mg/m3]	0.015
PM2.5 Maximum [mg/m3]	0.212
PM2.5 TWA [mg/m3]	0.044
PM4 Average [mg/m3]	0.05
PM4 Minimum [mg/m3]	0.016
PM4 Maximum [mg/m3]	0.214
PM4 TWA [mg/m3]	0.047
PM10 Average [mg/m3]	0.061
PM10 Minimum [mg/m3]	0.018
PM10 Maximum [mg/m3]	0.258
PM10 TWA [mg/m3]	0.057
TOTAL Average [mg/m3]	0.064
TOTAL Minimum [mg/m3]	0.018
TOTAL Maximum [mg/m3]	0.282
TOTAL TWA [mg/m3]	0.06
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	445



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	Time/Date	TOTAL [mg/m3]	7:20:10 AM	Alarms	Errors
60	0.019	0.021	0.023	0.028	9/20/2011 7:21	0.03	7:21:10 AM		
120	0.015	0.016	0.017	0.019	9/20/2011 7:22	0.019	7:22:10 AM		
180	0.014	0.015	0.016	0.018	9/20/2011 7:23	0.019	7:23:10 AM		
240	0.015	0.016	0.017	0.02	9/20/2011 7:24	0.02	7:24:10 AM		
300	0.014	0.016	0.017	0.019	9/20/2011 7:25	0.02	7:25:10 AM		
360	0.016	0.017	0.019	0.021	9/20/2011 7:26	0.022	7:26:10 AM		
420	0.018	0.019	0.021	0.024	9/20/2011 7:27	0.025	7:27:10 AM		
480	0.017	0.018	0.02	0.023	9/20/2011 7:28	0.025	7:28:10 AM		
540	0.015	0.017	0.019	0.022	9/20/2011 7:29	0.022	7:29:10 AM		
600	0.094	0.103	0.117	0.151	9/20/2011 7:30	0.169	7:30:10 AM		
660	0.027	0.029	0.032	0.039	9/20/2011 7:31	0.042	7:31:10 AM		
720	0.015	0.016	0.016	0.018	9/20/2011 7:32	0.018	7:32:10 AM		
780	0.019	0.02	0.021	0.025	9/20/2011 7:33	0.027	7:33:10 AM		
840	0.019	0.02	0.021	0.024	9/20/2011 7:34	0.025	7:34:10 AM		
900	0.022	0.023	0.025	0.028	9/20/2011 7:35	0.029	7:35:10 AM		
960	0.025	0.027	0.028	0.03	9/20/2011 7:36	0.031	7:36:10 AM		
1020	0.035	0.038	0.04	0.045	9/20/2011 7:37	0.047	7:37:10 AM		
1080	0.025	0.026	0.027	0.03	9/20/2011 7:38	0.032	7:38:10 AM		
1140	0.023	0.024	0.025	0.027	9/20/2011 7:39	0.027	7:39:10 AM		
1200	0.026	0.027	0.028	0.03	9/20/2011 7:40	0.031	7:40:10 AM		
1260	0.034	0.036	0.037	0.039	9/20/2011 7:41	0.039	7:41:10 AM		
1320	0.032	0.034	0.035	0.038	9/20/2011 7:42	0.041	7:42:10 AM		
1380	0.038	0.041	0.044	0.055	9/20/2011 7:43	0.06	7:43:10 AM		
1440	0.034	0.037	0.041	0.055	9/20/2011 7:44	0.061	7:44:10 AM		
1500	0.044	0.049	0.053	0.066	9/20/2011 7:45	0.075	7:45:10 AM		
1560	0.065	0.074	0.084	0.1	9/20/2011 7:46	0.104	7:46:10 AM		
1620	0.038	0.043	0.048	0.056	9/20/2011 7:47	0.058	7:47:10 AM		
1680	0.041	0.046	0.052	0.061	9/20/2011 7:48	0.062	7:48:10 AM		
1740	0.054	0.06	0.068	0.083	9/20/2011 7:49	0.087	7:49:10 AM		
1800	0.066	0.074	0.084	0.106	9/20/2011 7:50	0.117	7:50:10 AM		
1860	0.047	0.052	0.06	0.076	9/20/2011 7:51	0.084	7:51:10 AM		
1920	0.059	0.065	0.072	0.085	9/20/2011 7:52	0.092	7:52:10 AM		
1980	0.07	0.076	0.082	0.093	9/20/2011 7:53	0.097	7:53:10 AM		
2040	0.043	0.046	0.05	0.057	9/20/2011 7:54	0.058	7:54:10 AM		
2100	0.032	0.035	0.037	0.041	9/20/2011 7:55	0.042	7:55:10 AM		
2160	0.037	0.04	0.043	0.05	9/20/2011 7:56	0.052	7:56:10 AM		
2220	0.041	0.044	0.048	0.056	9/20/2011 7:57	0.059	7:57:10 AM		
2280	0.033	0.036	0.038	0.042	9/20/2011 7:58	0.044	7:58:10 AM		
2340	0.044	0.047	0.05	0.054	9/20/2011 7:59	0.056	7:59:10 AM		
2400	0.031	0.034	0.035	0.037	9/20/2011 8:00	0.038	8:00:10 AM		
2460	0.035	0.038	0.041	0.048	9/20/2011 8:01	0.049	8:01:10 AM		
2520	0.033	0.036	0.039	0.043	9/20/2011 8:02	0.046	8:02:10 AM		
2580	0.032	0.035	0.038	0.041	9/20/2011 8:03	0.043	8:03:10 AM		
2640	0.032	0.034	0.037	0.04	9/20/2011 8:04	0.041	8:04:10 AM		
2700	0.053	0.057	0.06	0.063	9/20/2011 8:05	0.064	8:05:10 AM		
2760	0.051	0.055	0.058	0.061	9/20/2011 8:06	0.062	8:06:10 AM		
2820	0.057	0.062	0.065	0.069	9/20/2011 8:07	0.071	8:07:10 AM		
2880	0.046	0.05	0.052	0.056	9/20/2011 8:08	0.058	8:08:10 AM		
2940	0.047	0.051	0.057	0.067	9/20/2011 8:09	0.07	8:09:10 AM		
3000	0.037	0.04	0.044	0.051	9/20/2011 8:10	0.053	8:10:10 AM		
3060	0.055	0.06	0.067	0.085	9/20/2011 8:11	0.09	8:11:10 AM		
3120	0.045	0.049	0.054	0.06	9/20/2011 8:12	0.064	8:12:10 AM		
3180	0.039	0.041	0.044	0.049	9/20/2011 8:13	0.05	8:13:10 AM		
3240	0.025	0.027	0.029	0.031	9/20/2011 8:14	0.031	8:14:10 AM		
3300	0.029	0.032	0.033	0.036	9/20/2011 8:15	0.036	8:15:10 AM		
3360	0.035	0.038	0.04	0.043	9/20/2011 8:16	0.045	8:16:10 AM		
3420	0.03	0.032	0.033	0.038	9/20/2011 8:17	0.04	8:17:10 AM		
3480	0.032	0.034	0.037	0.047	9/20/2011 8:18	0.051	8:18:10 AM		
3540	0.028	0.03	0.032	0.036	9/20/2011 8:19	0.037	8:19:10 AM		

3600	0.036	0.039	0.042	0.047	9/20/2011 8:20	0.048	8:20:10 AM
3660	0.032	0.035	0.037	0.041	9/20/2011 8:21	0.043	8:21:10 AM
3720	0.056	0.059	0.062	0.068	9/20/2011 8:22	0.07	8:22:10 AM
3780	0.053	0.057	0.062	0.084	9/20/2011 8:23	0.091	8:23:10 AM
3840	0.066	0.072	0.077	0.096	9/20/2011 8:24	0.104	8:24:10 AM
3900	0.071	0.076	0.083	0.101	9/20/2011 8:25	0.104	8:25:10 AM
3960	0.059	0.063	0.068	0.078	9/20/2011 8:26	0.079	8:26:10 AM
4020	0.058	0.062	0.066	0.073	9/20/2011 8:27	0.076	8:27:10 AM
4080	0.122	0.126	0.13	0.136	9/20/2011 8:28	0.138	8:28:10 AM
4140	0.112	0.117	0.12	0.125	9/20/2011 8:29	0.127	8:29:10 AM
4200	0.054	0.058	0.06	0.065	9/20/2011 8:30	0.067	8:30:10 AM
4260	0.04	0.042	0.043	0.044	9/20/2011 8:31	0.045	8:31:10 AM
4320	0.055	0.057	0.058	0.06	9/20/2011 8:32	0.063	8:32:10 AM
4380	0.056	0.059	0.063	0.068	9/20/2011 8:33	0.069	8:33:10 AM
4440	0.053	0.057	0.061	0.068	9/20/2011 8:34	0.07	8:34:10 AM
4500	0.043	0.046	0.049	0.052	9/20/2011 8:35	0.054	8:35:10 AM
4560	0.028	0.03	0.031	0.033	9/20/2011 8:36	0.033	8:36:10 AM
4620	0.031	0.033	0.034	0.036	9/20/2011 8:37	0.037	8:37:10 AM
4680	0.038	0.04	0.042	0.043	9/20/2011 8:38	0.044	8:38:10 AM
4740	0.042	0.044	0.046	0.05	9/20/2011 8:39	0.052	8:39:10 AM
4800	0.209	0.212	0.214	0.217	9/20/2011 8:40	0.217	8:40:10 AM
4860	0.08	0.082	0.084	0.086	9/20/2011 8:41	0.087	8:41:10 AM
4920	0.083	0.087	0.093	0.11	9/20/2011 8:42	0.115	8:42:10 AM
4980	0.039	0.042	0.045	0.055	9/20/2011 8:43	0.06	8:43:10 AM
5040	0.034	0.037	0.039	0.043	9/20/2011 8:44	0.043	8:44:10 AM
5100	0.033	0.036	0.038	0.041	9/20/2011 8:45	0.042	8:45:10 AM
5160	0.024	0.025	0.027	0.029	9/20/2011 8:46	0.029	8:46:10 AM
5220	0.026	0.028	0.029	0.033	9/20/2011 8:47	0.034	8:47:10 AM
5280	0.033	0.036	0.039	0.045	9/20/2011 8:48	0.047	8:48:10 AM
5340	0.029	0.032	0.034	0.039	9/20/2011 8:49	0.041	8:49:10 AM
5400	0.037	0.04	0.042	0.046	9/20/2011 8:50	0.047	8:50:10 AM
5460	0.053	0.057	0.06	0.067	9/20/2011 8:51	0.069	8:51:10 AM
5520	0.071	0.075	0.08	0.091	9/20/2011 8:52	0.098	8:52:10 AM
5580	0.054	0.058	0.061	0.069	9/20/2011 8:53	0.072	8:53:10 AM
5640	0.035	0.037	0.039	0.042	9/20/2011 8:54	0.043	8:54:10 AM
5700	0.036	0.038	0.041	0.045	9/20/2011 8:55	0.047	8:55:10 AM
5760	0.044	0.046	0.049	0.056	9/20/2011 8:56	0.058	8:56:10 AM
5820	0.031	0.033	0.035	0.039	9/20/2011 8:57	0.039	8:57:10 AM
5880	0.031	0.034	0.036	0.04	9/20/2011 8:58	0.042	8:58:10 AM
5940	0.03	0.032	0.035	0.04	9/20/2011 8:59	0.042	8:59:10 AM
6000	0.037	0.039	0.043	0.052	9/20/2011 9:00	0.055	9:00:10 AM
6060	0.042	0.045	0.049	0.058	9/20/2011 9:01	0.061	9:01:10 AM
6120	0.043	0.046	0.05	0.057	9/20/2011 9:02	0.059	9:02:10 AM
6180	0.042	0.046	0.049	0.057	9/20/2011 9:03	0.059	9:03:10 AM
6240	0.033	0.035	0.038	0.043	9/20/2011 9:04	0.044	9:04:10 AM
6300	0.033	0.036	0.038	0.042	9/20/2011 9:05	0.043	9:05:10 AM
6360	0.033	0.035	0.038	0.043	9/20/2011 9:06	0.045	9:06:10 AM
6420	0.029	0.031	0.033	0.037	9/20/2011 9:07	0.037	9:07:10 AM
6480	0.03	0.032	0.033	0.036	9/20/2011 9:08	0.036	9:08:10 AM
6540	0.028	0.03	0.032	0.034	9/20/2011 9:09	0.035	9:09:10 AM
6600	0.065	0.07	0.079	0.101	9/20/2011 9:10	0.105	9:10:10 AM
6660	0.045	0.048	0.051	0.058	9/20/2011 9:11	0.061	9:11:10 AM
6720	0.034	0.037	0.039	0.049	9/20/2011 9:12	0.053	9:12:10 AM
6780	0.046	0.049	0.053	0.063	9/20/2011 9:13	0.065	9:13:10 AM
6840	0.036	0.04	0.043	0.053	9/20/2011 9:14	0.058	9:14:10 AM
6900	0.044	0.047	0.05	0.056	9/20/2011 9:15	0.058	9:15:10 AM
6960	0.041	0.043	0.046	0.051	9/20/2011 9:16	0.052	9:16:10 AM
7020	0.042	0.045	0.046	0.05	9/20/2011 9:17	0.05	9:17:10 AM
7080	0.032	0.034	0.036	0.039	9/20/2011 9:18	0.04	9:18:10 AM
7140	0.054	0.059	0.067	0.087	9/20/2011 9:19	0.093	9:19:10 AM
7200	0.052	0.057	0.064	0.081	9/20/2011 9:20	0.085	9:20:10 AM
7260	0.047	0.051	0.056	0.069	9/20/2011 9:21	0.072	9:21:10 AM
7320	0.04	0.043	0.047	0.056	9/20/2011 9:22	0.059	9:22:10 AM
7380	0.038	0.041	0.044	0.051	9/20/2011 9:23	0.055	9:23:10 AM
7440	0.048	0.052	0.056	0.068	9/20/2011 9:24	0.071	9:24:10 AM
7500	0.049	0.053	0.057	0.068	9/20/2011 9:25	0.072	9:25:10 AM
7560	0.045	0.049	0.052	0.061	9/20/2011 9:26	0.062	9:26:10 AM
7620	0.063	0.068	0.075	0.095	9/20/2011 9:27	0.103	9:27:10 AM
7680	0.054	0.059	0.064	0.084	9/20/2011 9:28	0.091	9:28:10 AM
7740	0.043	0.047	0.05	0.062	9/20/2011 9:29	0.066	9:29:10 AM
7800	0.058	0.063	0.068	0.09	9/20/2011 9:30	0.095	9:30:10 AM
7860	0.057	0.062	0.068	0.085	9/20/2011 9:31	0.091	9:31:10 AM
7920	0.04	0.043	0.045	0.056	9/20/2011 9:32	0.06	9:32:10 AM
7980	0.041	0.044	0.047	0.055	9/20/2011 9:33	0.058	9:33:10 AM
8040	0.049	0.053	0.057	0.069	9/20/2011 9:34	0.074	9:34:10 AM
8100	0.052	0.057	0.061	0.077	9/20/2011 9:35	0.082	9:35:10 AM
8160	0.04	0.043	0.046	0.056	9/20/2011 9:36	0.058	9:36:10 AM
8220	0.042	0.045	0.048	0.06	9/20/2011 9:37	0.065	9:37:10 AM
8280	0.032	0.034	0.036	0.044	9/20/2011 9:38	0.046	9:38:10 AM
8340	0.036	0.038	0.041	0.05	9/20/2011 9:39	0.052	9:39:10 AM
8400	0.035	0.037	0.039	0.052	9/20/2011 9:40	0.059	9:40:10 AM
8460	0.038	0.041	0.044	0.06	9/20/2011 9:41	0.068	9:41:10 AM
8520	0.044	0.048	0.053	0.079	9/20/2011 9:42	0.088	9:42:10 AM
8580	0.047	0.051	0.056	0.076	9/20/2011 9:43	0.086	9:43:10 AM
8640	0.043	0.046	0.05	0.067	9/20/2011 9:44	0.072	9:44:10 AM
8700	0.067	0.073	0.082	0.124	9/20/2011 9:45	0.134	9:45:10 AM
8760	0.071	0.076	0.086	0.131	9/20/2011 9:46	0.142	9:46:10 AM
8820	0.071	0.077	0.086	0.12	9/20/2011 9:47	0.128	9:47:10 AM
8880	0.058	0.062	0.069	0.097	9/20/2011 9:48	0.103	9:48:10 AM
8940	0.046	0.05	0.056	0.084	9/20/2011 9:49	0.092	9:49:10 AM
9000	0.037	0.04	0.045	0.063	9/20/2011 9:50	0.068	9:50:10 AM
9060	0.041	0.044	0.048	0.067	9/20/2011 9:51	0.072	9:51:10 AM
9120	0.04	0.043	0.045	0.055	9/20/2011 9:52	0.058	9:52:10 AM
9180	0.061	0.064	0.067	0.077	9/20/2011 9:53	0.079	9:53:10 AM
9240	0.038	0.04	0.042	0.051	9/20/2011 9:54	0.053	9:54:10 AM
9300	0.033	0.035	0.037	0.049	9/20/2011 9:55	0.05	9:55:10 AM

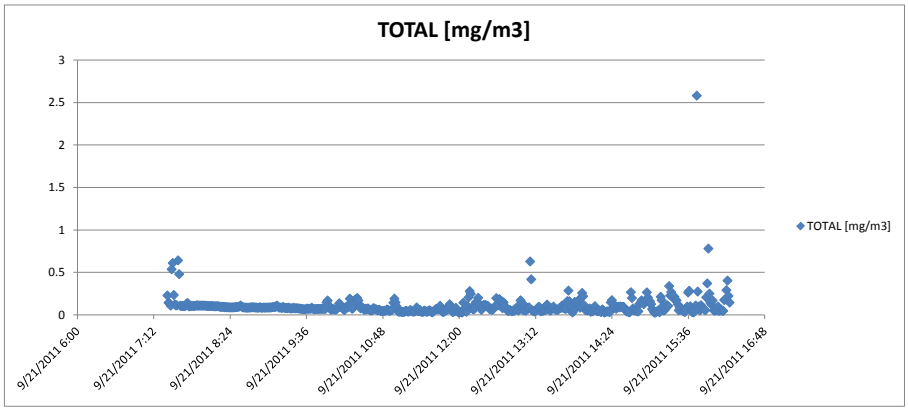
9360	0.033	0.036	0.039	0.052	9/20/2011 9:56	0.055	9:56:10 AM
9420	0.042	0.044	0.048	0.06	9/20/2011 9:57	0.063	9:57:10 AM
9480	0.102	0.108	0.117	0.141	9/20/2011 9:58	0.146	9:58:10 AM
9540	0.054	0.058	0.064	0.079	9/20/2011 9:59	0.082	9:59:10 AM
9600	0.058	0.062	0.067	0.084	9/20/2011 10:00	0.092	10:00:10 AM
9660	0.062	0.068	0.074	0.097	9/20/2011 10:01	0.099	10:01:10 AM
9720	0.044	0.048	0.052	0.064	9/20/2011 10:02	0.067	10:02:10 AM
9780	0.029	0.031	0.034	0.039	9/20/2011 10:03	0.042	10:03:10 AM
9840	0.032	0.035	0.037	0.046	9/20/2011 10:04	0.05	10:04:10 AM
9900	0.024	0.026	0.028	0.034	9/20/2011 10:05	0.036	10:05:10 AM
9960	0.027	0.029	0.031	0.039	9/20/2011 10:06	0.042	10:06:10 AM
10020	0.035	0.038	0.042	0.054	9/20/2011 10:07	0.056	10:07:10 AM
10080	0.041	0.044	0.047	0.058	9/20/2011 10:08	0.061	10:08:10 AM
10140	0.047	0.051	0.054	0.064	9/20/2011 10:09	0.069	10:09:10 AM
10200	0.06	0.065	0.07	0.084	9/20/2011 10:10	0.087	10:10:10 AM
10260	0.03	0.032	0.035	0.04	9/20/2011 10:11	0.042	10:11:10 AM
10320	0.03	0.032	0.034	0.039	9/20/2011 10:12	0.039	10:12:10 AM
10380	0.046	0.049	0.052	0.059	9/20/2011 10:13	0.062	10:13:10 AM
10440	0.044	0.047	0.05	0.059	9/20/2011 10:14	0.065	10:14:10 AM
10500	0.045	0.048	0.052	0.063	9/20/2011 10:15	0.065	10:15:10 AM
10560	0.04	0.043	0.045	0.053	9/20/2011 10:16	0.054	10:16:10 AM
10620	0.037	0.039	0.041	0.046	9/20/2011 10:17	0.047	10:17:10 AM
10680	0.029	0.031	0.033	0.037	9/20/2011 10:18	0.037	10:18:10 AM
10740	0.025	0.027	0.028	0.032	9/20/2011 10:19	0.033	10:19:10 AM
10800	0.037	0.039	0.041	0.046	9/20/2011 10:20	0.047	10:20:10 AM
10860	0.042	0.045	0.048	0.06	9/20/2011 10:21	0.062	10:21:10 AM
10920	0.051	0.054	0.057	0.065	9/20/2011 10:22	0.068	10:22:10 AM
10980	0.039	0.042	0.045	0.052	9/20/2011 10:23	0.054	10:23:10 AM
11040	0.039	0.042	0.044	0.049	9/20/2011 10:24	0.05	10:24:10 AM
11100	0.034	0.037	0.038	0.042	9/20/2011 10:25	0.043	10:25:10 AM
11160	0.043	0.047	0.049	0.054	9/20/2011 10:26	0.055	10:26:10 AM
11220	0.033	0.036	0.037	0.04	9/20/2011 10:27	0.04	10:27:10 AM
11280	0.029	0.031	0.032	0.035	9/20/2011 10:28	0.035	10:28:10 AM
11340	0.029	0.031	0.032	0.034	9/20/2011 10:29	0.034	10:29:10 AM
11400	0.031	0.033	0.033	0.035	9/20/2011 10:30	0.036	10:30:10 AM
11460	0.033	0.035	0.036	0.039	9/20/2011 10:31	0.039	10:31:10 AM
11520	0.04	0.043	0.045	0.052	9/20/2011 10:32	0.053	10:32:10 AM
11580	0.048	0.051	0.054	0.063	9/20/2011 10:33	0.066	10:33:10 AM
11640	0.095	0.102	0.113	0.157	9/20/2011 10:34	0.166	10:34:10 AM
11700	0.053	0.056	0.06	0.075	9/20/2011 10:35	0.079	10:35:10 AM
11760	0.048	0.051	0.054	0.065	9/20/2011 10:36	0.068	10:36:10 AM
11820	0.029	0.031	0.032	0.035	9/20/2011 10:37	0.035	10:37:10 AM
11880	0.036	0.038	0.039	0.044	9/20/2011 10:38	0.045	10:38:10 AM
11940	0.036	0.038	0.039	0.044	9/20/2011 10:39	0.046	10:39:10 AM
12000	0.039	0.041	0.043	0.048	9/20/2011 10:40	0.051	10:40:10 AM
12060	0.026	0.028	0.029	0.032	9/20/2011 10:41	0.032	10:41:10 AM
12120	0.036	0.039	0.04	0.044	9/20/2011 10:42	0.045	10:42:10 AM
12180	0.033	0.036	0.037	0.04	9/20/2011 10:43	0.042	10:43:10 AM
12240	0.035	0.037	0.039	0.042	9/20/2011 10:44	0.044	10:44:10 AM
12300	0.05	0.053	0.055	0.062	9/20/2011 10:45	0.064	10:45:10 AM
12360	0.047	0.05	0.052	0.061	9/20/2011 10:46	0.063	10:46:10 AM
12420	0.04	0.043	0.046	0.054	9/20/2011 10:47	0.056	10:47:10 AM
12480	0.032	0.034	0.035	0.041	9/20/2011 10:48	0.043	10:48:10 AM
12540	0.027	0.028	0.029	0.031	9/20/2011 10:49	0.032	10:49:10 AM
12600	0.047	0.05	0.053	0.063	9/20/2011 10:50	0.065	10:50:10 AM
12660	0.024	0.026	0.027	0.03	9/20/2011 10:51	0.031	10:51:10 AM
12720	0.022	0.024	0.025	0.027	9/20/2011 10:52	0.027	10:52:10 AM
12780	0.027	0.028	0.029	0.032	9/20/2011 10:53	0.033	10:53:10 AM
12840	0.03	0.031	0.032	0.035	9/20/2011 10:54	0.036	10:54:10 AM
12900	0.034	0.036	0.038	0.041	9/20/2011 10:55	0.043	10:55:10 AM
12960	0.048	0.051	0.053	0.06	9/20/2011 10:56	0.062	10:56:10 AM
13020	0.046	0.049	0.051	0.056	9/20/2011 10:57	0.057	10:57:10 AM
13080	0.03	0.032	0.033	0.036	9/20/2011 10:58	0.036	10:58:10 AM
13140	0.033	0.035	0.036	0.04	9/20/2011 10:59	0.043	10:59:10 AM
13200	0.04	0.042	0.044	0.049	9/20/2011 11:00	0.051	11:00:10 AM
13260	0.042	0.045	0.047	0.051	9/20/2011 11:01	0.053	11:01:10 AM
13320	0.029	0.031	0.032	0.035	9/20/2011 11:02	0.036	11:02:10 AM
13380	0.039	0.041	0.042	0.044	9/20/2011 11:03	0.045	11:03:10 AM
13440	0.032	0.034	0.035	0.037	9/20/2011 11:04	0.038	11:04:10 AM
13500	0.027	0.028	0.029	0.032	9/20/2011 11:05	0.033	11:05:10 AM
13560	0.024	0.026	0.026	0.028	9/20/2011 11:06	0.028	11:06:10 AM
13620	0.036	0.038	0.04	0.043	9/20/2011 11:07	0.044	11:07:10 AM
13680	0.051	0.054	0.06	0.086	9/20/2011 11:08	0.103	11:08:10 AM
13740	0.043	0.046	0.05	0.064	9/20/2011 11:09	0.068	11:09:10 AM
13800	0.04	0.043	0.045	0.054	9/20/2011 11:10	0.056	11:10:10 AM
13860	0.044	0.046	0.048	0.051	9/20/2011 11:11	0.052	11:11:10 AM
13920	0.05	0.052	0.054	0.058	9/20/2011 11:12	0.06	11:12:10 AM
13980	0.072	0.074	0.075	0.077	9/20/2011 11:13	0.078	11:13:10 AM
14040	0.068	0.07	0.071	0.076	9/20/2011 11:14	0.078	11:14:10 AM
14100	0.118	0.121	0.123	0.133	9/20/2011 11:15	0.136	11:15:10 AM
14160	0.072	0.074	0.076	0.082	9/20/2011 11:16	0.084	11:16:10 AM
14220	0.044	0.046	0.047	0.051	9/20/2011 11:17	0.052	11:17:10 AM
14280	0.036	0.039	0.04	0.043	9/20/2011 11:18	0.044	11:18:10 AM
14340	0.036	0.038	0.039	0.042	9/20/2011 11:19	0.044	11:19:10 AM
14400	0.032	0.034	0.036	0.039	9/20/2011 11:20	0.04	11:20:10 AM
14460	0.029	0.031	0.033	0.037	9/20/2011 11:21	0.038	11:21:10 AM
14520	0.033	0.035	0.037	0.042	9/20/2011 11:22	0.043	11:22:10 AM
14580	0.034	0.036	0.038	0.044	9/20/2011 11:23	0.044	11:23:10 AM
14640	0.028	0.03	0.032	0.037	9/20/2011 11:24	0.038	11:24:10 AM
14700	0.028	0.03	0.032	0.041	9/20/2011 11:25	0.042	11:25:10 AM
14760	0.045	0.048	0.053	0.069	9/20/2011 11:26	0.073	11:26:10 AM
14820	0.053	0.057	0.064	0.091	9/20/2011 11:27	0.101	11:27:10 AM
14880	0.062	0.068	0.076	0.107	9/20/2011 11:28	0.117	11:28:10 AM
14940	0.073	0.079	0.088	0.118	9/20/2011 11:29	0.128	11:29:10 AM
15000	0.06	0.066	0.073	0.096	9/20/2011 11:30	0.103	11:30:10 AM
15060	0.033	0.036	0.039	0.05	9/20/2011 11:31	0.051	11:31:10 AM

15120	0.019	0.02	0.021	0.024	9/20/2011 11:32	0.024	11:32:10 AM
15180	0.024	0.026	0.027	0.03	9/20/2011 11:33	0.03	11:33:10 AM
15240	0.027	0.029	0.03	0.033	9/20/2011 11:34	0.035	11:34:10 AM
15300	0.032	0.034	0.036	0.039	9/20/2011 11:35	0.04	11:35:10 AM
15360	0.031	0.033	0.034	0.037	9/20/2011 11:36	0.038	11:36:10 AM
15420	0.03	0.032	0.033	0.035	9/20/2011 11:37	0.036	11:37:10 AM
15480	0.034	0.036	0.037	0.041	9/20/2011 11:38	0.042	11:38:10 AM
15540	0.049	0.052	0.054	0.062	9/20/2011 11:39	0.064	11:39:10 AM
15600	0.039	0.042	0.044	0.049	9/20/2011 11:40	0.049	11:40:10 AM
15660	0.041	0.043	0.044	0.048	9/20/2011 11:41	0.05	11:41:10 AM
15720	0.061	0.064	0.066	0.071	9/20/2011 11:42	0.072	11:42:10 AM
15780	0.047	0.049	0.051	0.055	9/20/2011 11:43	0.058	11:43:10 AM
15840	0.04	0.042	0.044	0.048	9/20/2011 11:44	0.049	11:44:10 AM
15900	0.06	0.062	0.065	0.074	9/20/2011 11:45	0.077	11:45:10 AM
15960	0.045	0.046	0.048	0.052	9/20/2011 11:46	0.053	11:46:10 AM
16020	0.046	0.048	0.05	0.056	9/20/2011 11:47	0.057	11:47:10 AM
16080	0.067	0.07	0.074	0.09	9/20/2011 11:48	0.095	11:48:10 AM
16140	0.053	0.056	0.059	0.071	9/20/2011 11:49	0.076	11:49:10 AM
16200	0.035	0.037	0.039	0.046	9/20/2011 11:50	0.047	11:50:10 AM
16260	0.051	0.055	0.058	0.07	9/20/2011 11:51	0.074	11:51:10 AM
16320	0.036	0.039	0.041	0.048	9/20/2011 11:52	0.052	11:52:10 AM
16380	0.029	0.031	0.033	0.037	9/20/2011 11:53	0.039	11:53:10 AM
16440	0.05	0.052	0.056	0.069	9/20/2011 11:54	0.073	11:54:10 AM
16500	0.048	0.051	0.054	0.066	9/20/2011 11:55	0.069	11:55:10 AM
16560	0.053	0.056	0.06	0.073	9/20/2011 11:56	0.08	11:56:10 AM
16620	0.037	0.039	0.041	0.049	9/20/2011 11:57	0.051	11:57:10 AM
16680	0.068	0.073	0.078	0.105	9/20/2011 11:58	0.11	11:58:10 AM
16740	0.069	0.074	0.081	0.11	9/20/2011 11:59	0.119	11:59:10 AM
16800	0.045	0.048	0.052	0.065	9/20/2011 12:00	0.069	12:00:10 PM
16860	0.05	0.053	0.057	0.077	9/20/2011 12:01	0.082	12:01:10 PM
16920	0.031	0.033	0.035	0.04	9/20/2011 12:02	0.043	12:02:10 PM
16980	0.041	0.043	0.046	0.055	9/20/2011 12:03	0.058	12:03:10 PM
17040	0.053	0.057	0.06	0.072	9/20/2011 12:04	0.075	12:04:10 PM
17100	0.047	0.05	0.052	0.063	9/20/2011 12:05	0.065	12:05:10 PM
17160	0.036	0.038	0.04	0.045	9/20/2011 12:06	0.047	12:06:10 PM
17220	0.047	0.05	0.053	0.065	9/20/2011 12:07	0.068	12:07:10 PM
17280	0.056	0.06	0.065	0.09	9/20/2011 12:08	0.096	12:08:10 PM
17340	0.057	0.061	0.068	0.098	9/20/2011 12:09	0.108	12:09:10 PM
17400	0.05	0.054	0.06	0.087	9/20/2011 12:10	0.094	12:10:10 PM
17460	0.091	0.098	0.113	0.194	9/20/2011 12:11	0.214	12:11:10 PM
17520	0.049	0.052	0.059	0.091	9/20/2011 12:12	0.1	12:12:10 PM
17580	0.052	0.055	0.061	0.09	9/20/2011 12:13	0.104	12:13:10 PM
17640	0.049	0.052	0.058	0.091	9/20/2011 12:14	0.099	12:14:10 PM
17700	0.041	0.044	0.049	0.075	9/20/2011 12:15	0.08	12:15:10 PM
17760	0.034	0.036	0.04	0.052	9/20/2011 12:16	0.057	12:16:10 PM
17820	0.05	0.053	0.059	0.082	9/20/2011 12:17	0.091	12:17:10 PM
17880	0.042	0.045	0.049	0.065	9/20/2011 12:18	0.069	12:18:10 PM
17940	0.038	0.04	0.043	0.055	9/20/2011 12:19	0.059	12:19:10 PM
18000	0.056	0.059	0.065	0.097	9/20/2011 12:20	0.112	12:20:10 PM
18060	0.049	0.052	0.057	0.08	9/20/2011 12:21	0.089	12:21:10 PM
18120	0.033	0.035	0.037	0.046	9/20/2011 12:22	0.049	12:22:10 PM
18180	0.027	0.029	0.03	0.033	9/20/2011 12:23	0.034	12:23:10 PM
18240	0.021	0.022	0.022	0.023	9/20/2011 12:24	0.024	12:24:10 PM
18300	0.022	0.023	0.024	0.025	9/20/2011 12:25	0.027	12:25:10 PM
18360	0.024	0.026	0.027	0.029	9/20/2011 12:26	0.03	12:26:10 PM
18420	0.03	0.032	0.033	0.039	9/20/2011 12:27	0.041	12:27:10 PM
18480	0.05	0.054	0.06	0.083	9/20/2011 12:28	0.091	12:28:10 PM
18540	0.038	0.041	0.045	0.058	9/20/2011 12:29	0.063	12:29:10 PM
18600	0.024	0.026	0.027	0.031	9/20/2011 12:30	0.032	12:30:10 PM
18660	0.033	0.035	0.037	0.041	9/20/2011 12:31	0.043	12:31:10 PM
18720	0.025	0.027	0.028	0.029	9/20/2011 12:32	0.029	12:32:10 PM
18780	0.024	0.025	0.026	0.028	9/20/2011 12:33	0.028	12:33:10 PM
18840	0.032	0.033	0.035	0.039	9/20/2011 12:34	0.042	12:34:10 PM
18900	0.038	0.04	0.043	0.054	9/20/2011 12:35	0.058	12:35:10 PM
18960	0.033	0.035	0.037	0.044	9/20/2011 12:36	0.046	12:36:10 PM
19020	0.024	0.025	0.026	0.028	9/20/2011 12:37	0.029	12:37:10 PM
19080	0.026	0.028	0.03	0.035	9/20/2011 12:38	0.038	12:38:10 PM
19140	0.024	0.026	0.027	0.03	9/20/2011 12:39	0.031	12:39:10 PM
19200	0.026	0.028	0.029	0.032	9/20/2011 12:40	0.032	12:40:10 PM
19260	0.023	0.024	0.025	0.027	9/20/2011 12:41	0.028	12:41:10 PM
19320	0.025	0.027	0.027	0.03	9/20/2011 12:42	0.03	12:42:10 PM
19380	0.029	0.03	0.032	0.036	9/20/2011 12:43	0.038	12:43:10 PM
19440	0.032	0.035	0.037	0.044	9/20/2011 12:44	0.047	12:44:10 PM
19500	0.038	0.04	0.042	0.048	9/20/2011 12:45	0.05	12:45:10 PM
19560	0.028	0.03	0.031	0.033	9/20/2011 12:46	0.034	12:46:10 PM
19620	0.024	0.025	0.026	0.026	9/20/2011 12:47	0.026	12:47:10 PM
19680	0.026	0.027	0.028	0.028	9/20/2011 12:48	0.028	12:48:10 PM
19740	0.026	0.027	0.028	0.028	9/20/2011 12:49	0.029	12:49:10 PM
19800	0.031	0.033	0.033	0.035	9/20/2011 12:50	0.035	12:50:10 PM
19860	0.037	0.039	0.04	0.041	9/20/2011 12:51	0.043	12:51:10 PM
19920	0.028	0.029	0.03	0.031	9/20/2011 12:52	0.031	12:52:10 PM
19980	0.037	0.039	0.04	0.041	9/20/2011 12:53	0.042	12:53:10 PM
20040	0.04	0.041	0.042	0.043	9/20/2011 12:54	0.043	12:54:10 PM
20100	0.034	0.036	0.037	0.037	9/20/2011 12:55	0.038	12:55:10 PM
20160	0.033	0.035	0.036	0.04	9/20/2011 12:56	0.041	12:56:10 PM
20220	0.053	0.055	0.056	0.059	9/20/2011 12:57	0.06	12:57:10 PM
20280	0.057	0.059	0.06	0.062	9/20/2011 12:58	0.063	12:58:10 PM
20340	0.054	0.056	0.058	0.065	9/20/2011 12:59	0.069	12:59:10 PM
20400	0.049	0.052	0.054	0.063	9/20/2011 13:00	0.065	1:00:10 PM
20460	0.039	0.041	0.043	0.046	9/20/2011 13:01	0.046	1:01:10 PM
20520	0.037	0.039	0.04	0.043	9/20/2011 13:02	0.043	1:02:10 PM
20580	0.035	0.036	0.037	0.039	9/20/2011 13:03	0.039	1:03:10 PM
20640	0.045	0.048	0.049	0.052	9/20/2011 13:04	0.055	1:04:10 PM
20700	0.039	0.041	0.042	0.045	9/20/2011 13:05	0.046	1:05:10 PM
20760	0.033	0.034	0.035	0.038	9/20/2011 13:06	0.038	1:06:10 PM
20820	0.04	0.042	0.043	0.047	9/20/2011 13:07	0.048	1:07:10 PM

20880	0.038	0.04	0.041	0.045	9/20/2011 13:08	0.046	1:08:10 PM
20940	0.04	0.043	0.044	0.052	9/20/2011 13:09	0.054	1:09:10 PM
21000	0.047	0.049	0.053	0.073	9/20/2011 13:10	0.08	1:10:10 PM
21060	0.051	0.054	0.06	0.087	9/20/2011 13:11	0.098	1:11:10 PM
21120	0.057	0.06	0.065	0.092	9/20/2011 13:12	0.099	1:12:10 PM
21180	0.045	0.048	0.051	0.061	9/20/2011 13:13	0.063	1:13:10 PM
21240	0.043	0.045	0.048	0.058	9/20/2011 13:14	0.064	1:14:10 PM
21300	0.042	0.045	0.047	0.056	9/20/2011 13:15	0.058	1:15:10 PM
21360	0.04	0.042	0.044	0.047	9/20/2011 13:16	0.049	1:16:10 PM
21420	0.034	0.036	0.037	0.04	9/20/2011 13:17	0.042	1:17:10 PM
21480	0.031	0.032	0.034	0.038	9/20/2011 13:18	0.04	1:18:10 PM
21540	0.046	0.048	0.05	0.059	9/20/2011 13:19	0.062	1:19:10 PM
21600	0.043	0.045	0.047	0.059	9/20/2011 13:20	0.062	1:20:10 PM
21660	0.046	0.049	0.052	0.061	9/20/2011 13:21	0.063	1:21:10 PM
21720	0.051	0.054	0.057	0.064	9/20/2011 13:22	0.067	1:22:10 PM
21780	0.047	0.05	0.052	0.06	9/20/2011 13:23	0.061	1:23:10 PM
21840	0.04	0.042	0.044	0.049	9/20/2011 13:24	0.05	1:24:10 PM
21900	0.042	0.045	0.046	0.051	9/20/2011 13:25	0.051	1:25:10 PM
21960	0.061	0.065	0.068	0.081	9/20/2011 13:26	0.086	1:26:10 PM
22020	0.068	0.072	0.08	0.109	9/20/2011 13:27	0.119	1:27:10 PM
22080	0.041	0.044	0.047	0.062	9/20/2011 13:28	0.064	1:28:10 PM
22140	0.037	0.039	0.041	0.049	9/20/2011 13:29	0.053	1:29:10 PM
22200	0.044	0.046	0.048	0.055	9/20/2011 13:30	0.059	1:30:10 PM
22260	0.041	0.043	0.045	0.048	9/20/2011 13:31	0.051	1:31:10 PM
22320	0.039	0.041	0.042	0.047	9/20/2011 13:32	0.05	1:32:10 PM
22380	0.034	0.035	0.036	0.039	9/20/2011 13:33	0.04	1:33:10 PM
22440	0.034	0.036	0.037	0.041	9/20/2011 13:34	0.042	1:34:10 PM
22500	0.037	0.039	0.041	0.045	9/20/2011 13:35	0.047	1:35:10 PM
22560	0.036	0.037	0.038	0.042	9/20/2011 13:36	0.042	1:36:10 PM
22620	0.043	0.045	0.047	0.054	9/20/2011 13:37	0.055	1:37:10 PM
22680	0.046	0.049	0.052	0.059	9/20/2011 13:38	0.061	1:38:10 PM
22740	0.042	0.045	0.046	0.052	9/20/2011 13:39	0.056	1:39:10 PM
22800	0.049	0.052	0.054	0.063	9/20/2011 13:40	0.067	1:40:10 PM
22860	0.034	0.035	0.037	0.04	9/20/2011 13:41	0.041	1:41:10 PM
22920	0.045	0.047	0.051	0.061	9/20/2011 13:42	0.063	1:42:10 PM
22980	0.051	0.055	0.058	0.071	9/20/2011 13:43	0.076	1:43:10 PM
23040	0.039	0.042	0.044	0.051	9/20/2011 13:44	0.052	1:44:10 PM
23100	0.034	0.036	0.037	0.041	9/20/2011 13:45	0.042	1:45:10 PM
23160	0.035	0.037	0.038	0.042	9/20/2011 13:46	0.042	1:46:10 PM
23220	0.057	0.06	0.065	0.084	9/20/2011 13:47	0.091	1:47:10 PM
23280	0.043	0.046	0.049	0.061	9/20/2011 13:48	0.064	1:48:10 PM
23340	0.035	0.037	0.039	0.044	9/20/2011 13:49	0.044	1:49:10 PM
23400	0.033	0.035	0.036	0.042	9/20/2011 13:50	0.043	1:50:10 PM
23460	0.04	0.042	0.045	0.053	9/20/2011 13:51	0.057	1:51:10 PM
23520	0.034	0.036	0.037	0.042	9/20/2011 13:52	0.043	1:52:10 PM
23580	0.037	0.039	0.041	0.047	9/20/2011 13:53	0.049	1:53:10 PM
23640	0.039	0.041	0.043	0.048	9/20/2011 13:54	0.049	1:54:10 PM
23700	0.043	0.046	0.048	0.057	9/20/2011 13:55	0.06	1:55:10 PM
23760	0.034	0.036	0.038	0.044	9/20/2011 13:56	0.045	1:56:10 PM
23820	0.029	0.03	0.032	0.038	9/20/2011 13:57	0.038	1:57:10 PM
23880	0.032	0.033	0.036	0.044	9/20/2011 13:58	0.049	1:58:10 PM
23940	0.033	0.035	0.037	0.046	9/20/2011 13:59	0.05	1:59:10 PM
24000	0.032	0.034	0.036	0.042	9/20/2011 14:00	0.043	2:00:10 PM
24060	0.033	0.035	0.037	0.046	9/20/2011 14:01	0.049	2:01:10 PM
24120	0.033	0.035	0.037	0.042	9/20/2011 14:02	0.044	2:02:10 PM
24180	0.042	0.044	0.048	0.061	9/20/2011 14:03	0.066	2:03:10 PM
24240	0.042	0.044	0.048	0.062	9/20/2011 14:04	0.067	2:04:10 PM
24300	0.039	0.04	0.044	0.055	9/20/2011 14:05	0.057	2:05:10 PM
24360	0.045	0.047	0.051	0.065	9/20/2011 14:06	0.075	2:06:10 PM
24420	0.042	0.044	0.048	0.064	9/20/2011 14:07	0.07	2:07:10 PM
24480	0.046	0.048	0.053	0.071	9/20/2011 14:08	0.079	2:08:10 PM
24540	0.055	0.058	0.064	0.085	9/20/2011 14:09	0.094	2:09:10 PM
24600	0.048	0.05	0.054	0.068	9/20/2011 14:10	0.071	2:10:10 PM
24660	0.054	0.057	0.063	0.083	9/20/2011 14:11	0.088	2:11:10 PM
24720	0.054	0.057	0.063	0.085	9/20/2011 14:12	0.092	2:12:10 PM
24780	0.056	0.058	0.065	0.096	9/20/2011 14:13	0.105	2:13:10 PM
24840	0.048	0.05	0.054	0.072	9/20/2011 14:14	0.078	2:14:10 PM
24900	0.066	0.069	0.077	0.116	9/20/2011 14:15	0.13	2:15:10 PM
24960	0.046	0.048	0.053	0.072	9/20/2011 14:16	0.08	2:16:10 PM
25020	0.035	0.037	0.039	0.049	9/20/2011 14:17	0.053	2:17:10 PM
25080	0.037	0.039	0.042	0.053	9/20/2011 14:18	0.057	2:18:10 PM
25140	0.046	0.048	0.053	0.069	9/20/2011 14:19	0.074	2:19:10 PM
25200	0.054	0.057	0.065	0.1	9/20/2011 14:20	0.109	2:20:10 PM
25260	0.054	0.057	0.064	0.097	9/20/2011 14:21	0.111	2:21:10 PM
25320	0.077	0.081	0.09	0.136	9/20/2011 14:22	0.154	2:22:10 PM
25380	0.065	0.069	0.077	0.111	9/20/2011 14:23	0.122	2:23:10 PM
25440	0.077	0.083	0.092	0.123	9/20/2011 14:24	0.134	2:24:10 PM
25500	0.071	0.075	0.083	0.107	9/20/2011 14:25	0.115	2:25:10 PM
25560	0.069	0.073	0.08	0.107	9/20/2011 14:26	0.116	2:26:10 PM
25620	0.072	0.076	0.082	0.104	9/20/2011 14:27	0.113	2:27:10 PM
25680	0.09	0.095	0.103	0.134	9/20/2011 14:28	0.146	2:28:10 PM
25740	0.068	0.072	0.076	0.094	9/20/2011 14:29	0.097	2:29:10 PM
25800	0.08	0.084	0.089	0.104	9/20/2011 14:30	0.11	2:30:10 PM
25860	0.091	0.097	0.104	0.131	9/20/2011 14:31	0.141	2:31:10 PM
25920	0.062	0.066	0.071	0.093	9/20/2011 14:32	0.101	2:32:10 PM
25980	0.063	0.067	0.073	0.093	9/20/2011 14:33	0.101	2:33:10 PM
26040	0.111	0.12	0.137	0.211	9/20/2011 14:34	0.231	2:34:10 PM
26100	0.079	0.085	0.097	0.143	9/20/2011 14:35	0.152	2:35:10 PM
26160	0.055	0.058	0.063	0.076	9/20/2011 14:36	0.078	2:36:10 PM
26220	0.045	0.047	0.049	0.054	9/20/2011 14:37	0.056	2:37:10 PM
26280	0.068	0.071	0.076	0.102	9/20/2011 14:38	0.108	2:38:10 PM
26340	0.079	0.084	0.092	0.123	9/20/2011 14:39	0.132	2:39:10 PM
26400	0.093	0.098	0.11	0.163	9/20/2011 14:40	0.18	2:40:10 PM
26460	0.121	0.129	0.146	0.215	9/20/2011 14:41	0.241	2:41:10 PM
26520	0.138	0.149	0.17	0.258	9/20/2011 14:42	0.282	2:42:10 PM
26580	0.093	0.098	0.108	0.155	9/20/2011 14:43	0.173	2:43:10 PM

26640	0.109	0.115	0.127	0.178	9/20/2011 14:44	0.199	2:44:10 PM
26700	0.089	0.094	0.102	0.136	9/20/2011 14:45	0.149	2:45:10 PM

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_003
Test Start Time	7:24:03
Test Start Date	9/21/2011
Test Length [D:H:M]	0:08:51
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.07
PM1 Minimum [mg/m3]	0.021
PM1 Maximum [mg/m3]	0.983
PM1 TWA [mg/m3]	0.069
PM2.5 Average [mg/m3]	0.073
PM2.5 Minimum [mg/m3]	0.022
PM2.5 Maximum [mg/m3]	1.12
PM2.5 TWA [mg/m3]	0.071
PM4 Average [mg/m3]	0.078
PM4 Minimum [mg/m3]	0.023
PM4 Maximum [mg/m3]	1.5
PM4 TWA [mg/m3]	0.075
PM10 Average [mg/m3]	0.097
PM10 Minimum [mg/m3]	0.026
PM10 Maximum [mg/m3]	2.49
PM10 TWA [mg/m3]	0.089
TOTAL Average [mg/m3]	0.102
TOTAL Minimum [mg/m3]	0.027
TOTAL Maximum [mg/m3]	2.58
TOTAL TWA [mg/m3]	0.094
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	531



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:24:03 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.145	0.147	0.152	0.192	7:25:03 AM	9/21/2011 7:25	0.227		
120	0.113	0.115	0.118	0.134	7:26:03 AM	9/21/2011 7:26	0.143		
180	0.113	0.114	0.117	0.129	7:27:03 AM	9/21/2011 7:27	0.136		
240	0.102	0.103	0.104	0.107	7:28:03 AM	9/21/2011 7:28	0.108		
300	0.514	0.516	0.519	0.53	7:29:03 AM	9/21/2011 7:29	0.535		
360	0.598	0.6	0.602	0.607	7:30:03 AM	9/21/2011 7:30	0.609		
420	0.227	0.228	0.229	0.233	7:31:03 AM	9/21/2011 7:31	0.233		
480	0.115	0.116	0.118	0.121	7:32:03 AM	9/21/2011 7:32	0.122		
540	0.106	0.107	0.108	0.111	7:33:03 AM	9/21/2011 7:33	0.111		
600	0.104	0.105	0.106	0.11	7:34:03 AM	9/21/2011 7:34	0.112		
660	0.33	0.345	0.389	0.573	7:35:03 AM	9/21/2011 7:35	0.641		
720	0.255	0.261	0.275	0.381	7:36:03 AM	9/21/2011 7:36	0.478		
780	0.101	0.102	0.104	0.107	7:37:03 AM	9/21/2011 7:37	0.108		
840	0.099	0.1	0.102	0.104	7:38:03 AM	9/21/2011 7:38	0.104		
900	0.098	0.1	0.101	0.103	7:39:03 AM	9/21/2011 7:39	0.104		
960	0.098	0.099	0.1	0.102	7:40:03 AM	9/21/2011 7:40	0.102		
1020	0.098	0.099	0.1	0.102	7:41:03 AM	9/21/2011 7:41	0.103		
1080	0.099	0.1	0.101	0.104	7:42:03 AM	9/21/2011 7:42	0.105		
1140	0.122	0.124	0.125	0.13	7:43:03 AM	9/21/2011 7:43	0.131		
1200	0.123	0.124	0.126	0.132	7:44:03 AM	9/21/2011 7:44	0.139		
1260	0.098	0.099	0.1	0.102	7:45:03 AM	9/21/2011 7:45	0.103		
1320	0.095	0.096	0.097	0.1	7:46:03 AM	9/21/2011 7:46	0.1		
1380	0.096	0.097	0.099	0.101	7:47:03 AM	9/21/2011 7:47	0.103		
1440	0.098	0.099	0.101	0.105	7:48:03 AM	9/21/2011 7:48	0.105		
1500	0.097	0.099	0.1	0.105	7:49:03 AM	9/21/2011 7:49	0.105		
1560	0.097	0.098	0.1	0.104	7:50:03 AM	9/21/2011 7:50	0.104		
1620	0.098	0.1	0.102	0.105	7:51:03 AM	9/21/2011 7:51	0.106		
1680	0.099	0.1	0.102	0.106	7:52:03 AM	9/21/2011 7:52	0.108		
1740	0.1	0.102	0.104	0.111	7:53:03 AM	9/21/2011 7:53	0.114		
1800	0.098	0.099	0.101	0.105	7:54:03 AM	9/21/2011 7:54	0.106		
1860	0.099	0.1	0.102	0.108	7:55:03 AM	9/21/2011 7:55	0.109		
1920	0.098	0.1	0.102	0.107	7:56:03 AM	9/21/2011 7:56	0.108		
1980	0.099	0.101	0.104	0.108	7:57:03 AM	9/21/2011 7:57	0.109		
2040	0.098	0.1	0.102	0.106	7:58:03 AM	9/21/2011 7:58	0.107		
2100	0.099	0.101	0.103	0.109	7:59:03 AM	9/21/2011 7:59	0.11		
2160	0.098	0.1	0.101	0.106	8:00:03 AM	9/21/2011 8:00	0.107		
2220	0.098	0.099	0.101	0.106	8:01:03 AM	9/21/2011 8:01	0.107		
2280	0.097	0.099	0.1	0.105	8:02:03 AM	9/21/2011 8:02	0.105		
2340	0.096	0.098	0.1	0.103	8:03:03 AM	9/21/2011 8:03	0.104		
2400	0.096	0.098	0.1	0.103	8:04:03 AM	9/21/2011 8:04	0.105		
2460	0.096	0.098	0.1	0.102	8:05:03 AM	9/21/2011 8:05	0.103		
2520	0.096	0.098	0.099	0.103	8:06:03 AM	9/21/2011 8:06	0.104		
2580	0.097	0.098	0.1	0.104	8:07:03 AM	9/21/2011 8:07	0.104		
2640	0.094	0.096	0.097	0.101	8:08:03 AM	9/21/2011 8:08	0.102		
2700	0.094	0.096	0.097	0.1	8:09:03 AM	9/21/2011 8:09	0.101		
2760	0.094	0.095	0.097	0.1	8:10:03 AM	9/21/2011 8:10	0.101		
2820	0.092	0.094	0.095	0.099	8:11:03 AM	9/21/2011 8:11	0.101		
2880	0.095	0.096	0.098	0.102	8:12:03 AM	9/21/2011 8:12	0.102		
2940	0.094	0.095	0.097	0.1	8:13:03 AM	9/21/2011 8:13	0.101		
3000	0.091	0.093	0.094	0.096	8:14:03 AM	9/21/2011 8:14	0.097		
3060	0.09	0.091	0.092	0.094	8:15:03 AM	9/21/2011 8:15	0.094		
3120	0.09	0.09	0.091	0.093	8:16:03 AM	9/21/2011 8:16	0.093		
3180	0.09	0.091	0.092	0.093	8:17:03 AM	9/21/2011 8:17	0.094		
3240	0.089	0.09	0.09	0.092	8:18:03 AM	9/21/2011 8:18	0.092		
3300	0.088	0.089	0.089	0.09	8:19:03 AM	9/21/2011 8:19	0.09		
3360	0.089	0.089	0.09	0.092	8:20:03 AM	9/21/2011 8:20	0.092		
3420	0.087	0.088	0.089	0.09	8:21:03 AM	9/21/2011 8:21	0.09		
3480	0.086	0.087	0.087	0.089	8:22:03 AM	9/21/2011 8:22	0.089		
3540	0.086	0.087	0.087	0.088	8:23:03 AM	9/21/2011 8:23	0.088		

3600	0.085	0.086	0.087	0.088	8:24:03 AM	9/21/2011 8:24	0.088
3660	0.085	0.086	0.087	0.088	8:25:03 AM	9/21/2011 8:25	0.088
3720	0.084	0.085	0.085	0.087	8:26:03 AM	9/21/2011 8:26	0.087
3780	0.084	0.085	0.085	0.086	8:27:03 AM	9/21/2011 8:27	0.087
3840	0.087	0.087	0.088	0.089	8:28:03 AM	9/21/2011 8:28	0.089
3900	0.088	0.088	0.089	0.09	8:29:03 AM	9/21/2011 8:29	0.091
3960	0.087	0.088	0.089	0.091	8:30:03 AM	9/21/2011 8:30	0.091
4020	0.088	0.089	0.09	0.091	8:31:03 AM	9/21/2011 8:31	0.093
4080	0.088	0.089	0.09	0.092	8:32:03 AM	9/21/2011 8:32	0.094
4140	0.092	0.093	0.094	0.097	8:33:03 AM	9/21/2011 8:33	0.098
4200	0.101	0.103	0.104	0.107	8:34:03 AM	9/21/2011 8:34	0.109
4260	0.091	0.092	0.093	0.096	8:35:03 AM	9/21/2011 8:35	0.097
4320	0.084	0.085	0.086	0.087	8:36:03 AM	9/21/2011 8:36	0.088
4380	0.084	0.085	0.085	0.087	8:37:03 AM	9/21/2011 8:37	0.087
4440	0.081	0.082	0.082	0.083	8:38:03 AM	9/21/2011 8:38	0.085
4500	0.082	0.083	0.083	0.084	8:39:03 AM	9/21/2011 8:39	0.085
4560	0.082	0.082	0.083	0.084	8:40:03 AM	9/21/2011 8:40	0.084
4620	0.081	0.082	0.083	0.084	8:41:03 AM	9/21/2011 8:41	0.084
4680	0.082	0.083	0.083	0.084	8:42:03 AM	9/21/2011 8:42	0.085
4740	0.084	0.084	0.085	0.086	8:43:03 AM	9/21/2011 8:43	0.087
4800	0.084	0.084	0.085	0.086	8:44:03 AM	9/21/2011 8:44	0.086
4860	0.086	0.087	0.087	0.09	8:45:03 AM	9/21/2011 8:45	0.091
4920	0.085	0.086	0.087	0.088	8:46:03 AM	9/21/2011 8:46	0.088
4980	0.085	0.086	0.087	0.088	8:47:03 AM	9/21/2011 8:47	0.088
5040	0.084	0.084	0.085	0.086	8:48:03 AM	9/21/2011 8:48	0.086
5100	0.083	0.084	0.084	0.086	8:49:03 AM	9/21/2011 8:49	0.086
5160	0.082	0.082	0.083	0.084	8:50:03 AM	9/21/2011 8:50	0.084
5220	0.082	0.082	0.083	0.083	8:51:03 AM	9/21/2011 8:51	0.083
5280	0.087	0.088	0.089	0.089	8:52:03 AM	9/21/2011 8:52	0.09
5340	0.083	0.083	0.084	0.085	8:53:03 AM	9/21/2011 8:53	0.085
5400	0.081	0.081	0.082	0.082	8:54:03 AM	9/21/2011 8:54	0.082
5460	0.082	0.083	0.083	0.084	8:55:03 AM	9/21/2011 8:55	0.085
5520	0.084	0.084	0.085	0.085	8:56:03 AM	9/21/2011 8:56	0.086
5580	0.082	0.083	0.083	0.084	8:57:03 AM	9/21/2011 8:57	0.084
5640	0.082	0.082	0.083	0.085	8:58:03 AM	9/21/2011 8:58	0.085
5700	0.082	0.082	0.083	0.084	8:59:03 AM	9/21/2011 8:59	0.085
5760	0.082	0.083	0.084	0.085	9:00:03 AM	9/21/2011 9:00	0.085
5820	0.083	0.084	0.085	0.086	9:01:03 AM	9/21/2011 9:01	0.086
5880	0.084	0.084	0.085	0.087	9:02:03 AM	9/21/2011 9:02	0.087
5940	0.085	0.086	0.087	0.088	9:03:03 AM	9/21/2011 9:03	0.088
6000	0.086	0.087	0.088	0.09	9:04:03 AM	9/21/2011 9:04	0.091
6060	0.087	0.088	0.089	0.09	9:05:03 AM	9/21/2011 9:05	0.091
6120	0.09	0.09	0.091	0.093	9:06:03 AM	9/21/2011 9:06	0.094
6180	0.088	0.089	0.09	0.093	9:07:03 AM	9/21/2011 9:07	0.093
6240	0.106	0.107	0.108	0.11	9:08:03 AM	9/21/2011 9:08	0.11
6300	0.091	0.092	0.093	0.1	9:09:03 AM	9/21/2011 9:09	0.102
6360	0.082	0.082	0.083	0.084	9:10:03 AM	9/21/2011 9:10	0.085
6420	0.081	0.082	0.083	0.085	9:11:03 AM	9/21/2011 9:11	0.086
6480	0.082	0.083	0.083	0.084	9:12:03 AM	9/21/2011 9:12	0.085
6540	0.079	0.079	0.08	0.08	9:13:03 AM	9/21/2011 9:13	0.08
6600	0.09	0.091	0.092	0.092	9:14:03 AM	9/21/2011 9:14	0.093
6660	0.081	0.081	0.082	0.083	9:15:03 AM	9/21/2011 9:15	0.084
6720	0.079	0.079	0.08	0.08	9:16:03 AM	9/21/2011 9:16	0.08
6780	0.078	0.079	0.079	0.08	9:17:03 AM	9/21/2011 9:17	0.081
6840	0.078	0.078	0.079	0.079	9:18:03 AM	9/21/2011 9:18	0.079
6900	0.082	0.082	0.083	0.084	9:19:03 AM	9/21/2011 9:19	0.085
6960	0.077	0.077	0.078	0.078	9:20:03 AM	9/21/2011 9:20	0.078
7020	0.075	0.075	0.076	0.077	9:21:03 AM	9/21/2011 9:21	0.077
7080	0.074	0.075	0.075	0.075	9:22:03 AM	9/21/2011 9:22	0.075
7140	0.076	0.077	0.077	0.078	9:23:03 AM	9/21/2011 9:23	0.078
7200	0.081	0.081	0.082	0.082	9:24:03 AM	9/21/2011 9:24	0.084
7260	0.075	0.076	0.076	0.077	9:25:03 AM	9/21/2011 9:25	0.077
7320	0.075	0.076	0.076	0.077	9:26:03 AM	9/21/2011 9:26	0.077
7380	0.077	0.077	0.078	0.078	9:27:03 AM	9/21/2011 9:27	0.078
7440	0.073	0.073	0.073	0.074	9:28:03 AM	9/21/2011 9:28	0.075
7500	0.072	0.072	0.073	0.076	9:29:03 AM	9/21/2011 9:29	0.077
7560	0.068	0.068	0.069	0.071	9:30:03 AM	9/21/2011 9:30	0.071
7620	0.068	0.068	0.069	0.07	9:31:03 AM	9/21/2011 9:31	0.071
7680	0.067	0.067	0.067	0.069	9:32:03 AM	9/21/2011 9:32	0.069
7740	0.064	0.064	0.064	0.065	9:33:03 AM	9/21/2011 9:33	0.065
7800	0.064	0.065	0.065	0.066	9:34:03 AM	9/21/2011 9:34	0.066
7860	0.062	0.062	0.063	0.064	9:35:03 AM	9/21/2011 9:35	0.064
7920	0.07	0.071	0.071	0.072	9:36:03 AM	9/21/2011 9:36	0.073
7980	0.069	0.07	0.07	0.071	9:37:03 AM	9/21/2011 9:37	0.072
8040	0.068	0.069	0.069	0.07	9:38:03 AM	9/21/2011 9:38	0.071
8100	0.07	0.071	0.071	0.073	9:39:03 AM	9/21/2011 9:39	0.073
8160	0.068	0.068	0.069	0.07	9:40:03 AM	9/21/2011 9:40	0.07
8220	0.078	0.078	0.079	0.082	9:41:03 AM	9/21/2011 9:41	0.083
8280	0.069	0.07	0.07	0.072	9:42:03 AM	9/21/2011 9:42	0.073
8340	0.066	0.066	0.067	0.069	9:43:03 AM	9/21/2011 9:43	0.069
8400	0.063	0.064	0.064	0.065	9:44:03 AM	9/21/2011 9:44	0.065
8460	0.065	0.066	0.066	0.067	9:45:03 AM	9/21/2011 9:45	0.068
8520	0.066	0.067	0.067	0.068	9:46:03 AM	9/21/2011 9:46	0.069
8580	0.068	0.068	0.069	0.07	9:47:03 AM	9/21/2011 9:47	0.07
8640	0.068	0.068	0.068	0.069	9:48:03 AM	9/21/2011 9:48	0.069
8700	0.069	0.069	0.069	0.07	9:49:03 AM	9/21/2011 9:49	0.07
8760	0.068	0.068	0.069	0.069	9:50:03 AM	9/21/2011 9:50	0.07
8820	0.068	0.068	0.068	0.069	9:51:03 AM	9/21/2011 9:51	0.069
8880	0.069	0.069	0.069	0.07	9:52:03 AM	9/21/2011 9:52	0.07
8940	0.069	0.07	0.07	0.071	9:53:03 AM	9/21/2011 9:53	0.071
9000	0.068	0.068	0.069	0.069	9:54:03 AM	9/21/2011 9:54	0.07
9060	0.101	0.105	0.112	0.139	9:55:03 AM	9/21/2011 9:55	0.147
9120	0.116	0.121	0.13	0.16	9:56:03 AM	9/21/2011 9:56	0.168
9180	0.086	0.088	0.092	0.106	9:57:03 AM	9/21/2011 9:57	0.111
9240	0.069	0.07	0.072	0.079	9:58:03 AM	9/21/2011 9:58	0.082
9300	0.059	0.06	0.06	0.062	9:59:03 AM	9/21/2011 9:59	0.062

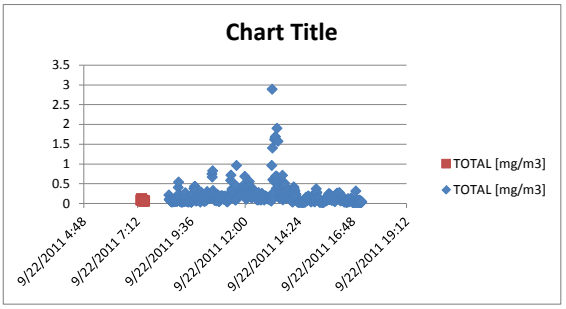
9360	0.061	0.061	0.062	0.063	10:00:03 AM	9/21/2011 10:00	0.063
9420	0.066	0.067	0.068	0.07	10:01:03 AM	9/21/2011 10:01	0.07
9480	0.063	0.064	0.064	0.065	10:02:03 AM	9/21/2011 10:02	0.065
9540	0.06	0.06	0.06	0.061	10:03:03 AM	9/21/2011 10:03	0.061
9600	0.058	0.059	0.06	0.061	10:04:03 AM	9/21/2011 10:04	0.062
9660	0.064	0.065	0.066	0.072	10:05:03 AM	9/21/2011 10:05	0.074
9720	0.072	0.074	0.076	0.085	10:06:03 AM	9/21/2011 10:06	0.088
9780	0.096	0.1	0.107	0.13	10:07:03 AM	9/21/2011 10:07	0.136
9840	0.088	0.092	0.097	0.115	10:08:03 AM	9/21/2011 10:08	0.119
9900	0.073	0.075	0.077	0.084	10:09:03 AM	9/21/2011 10:09	0.087
9960	0.072	0.073	0.075	0.08	10:10:03 AM	9/21/2011 10:10	0.082
10020	0.052	0.053	0.053	0.058	10:11:03 AM	9/21/2011 10:11	0.064
10080	0.052	0.053	0.053	0.056	10:12:03 AM	9/21/2011 10:12	0.056
10140	0.068	0.07	0.073	0.085	10:13:03 AM	9/21/2011 10:13	0.09
10200	0.072	0.074	0.077	0.092	10:14:03 AM	9/21/2011 10:14	0.097
10260	0.07	0.072	0.074	0.084	10:15:03 AM	9/21/2011 10:15	0.087
10320	0.084	0.086	0.092	0.114	10:16:03 AM	9/21/2011 10:16	0.119
10380	0.107	0.112	0.123	0.178	10:17:03 AM	9/21/2011 10:17	0.19
10440	0.08	0.083	0.089	0.12	10:18:03 AM	9/21/2011 10:18	0.125
10500	0.059	0.06	0.062	0.069	10:19:03 AM	9/21/2011 10:19	0.071
10560	0.063	0.065	0.067	0.076	10:20:03 AM	9/21/2011 10:20	0.079
10620	0.088	0.091	0.099	0.126	10:21:03 AM	9/21/2011 10:21	0.131
10680	0.104	0.11	0.122	0.168	10:22:03 AM	9/21/2011 10:22	0.179
10740	0.103	0.109	0.119	0.158	10:23:03 AM	9/21/2011 10:23	0.167
10800	0.122	0.129	0.142	0.188	10:24:03 AM	9/21/2011 10:24	0.199
10860	0.107	0.112	0.122	0.16	10:25:03 AM	9/21/2011 10:25	0.168
10920	0.078	0.08	0.083	0.095	10:26:03 AM	9/21/2011 10:26	0.098
10980	0.067	0.068	0.07	0.075	10:27:03 AM	9/21/2011 10:27	0.077
11040	0.081	0.083	0.085	0.094	10:28:03 AM	9/21/2011 10:28	0.097
11100	0.07	0.072	0.074	0.081	10:29:03 AM	9/21/2011 10:29	0.083
11160	0.058	0.059	0.059	0.062	10:30:03 AM	9/21/2011 10:30	0.063
11220	0.056	0.057	0.057	0.059	10:31:03 AM	9/21/2011 10:31	0.06
11280	0.064	0.065	0.067	0.072	10:32:03 AM	9/21/2011 10:32	0.072
11340	0.058	0.059	0.06	0.063	10:33:03 AM	9/21/2011 10:33	0.065
11400	0.066	0.067	0.069	0.075	10:34:03 AM	9/21/2011 10:34	0.077
11460	0.058	0.059	0.061	0.064	10:35:03 AM	9/21/2011 10:35	0.064
11520	0.051	0.051	0.052	0.054	10:36:03 AM	9/21/2011 10:36	0.054
11580	0.048	0.049	0.05	0.052	10:37:03 AM	9/21/2011 10:37	0.052
11640	0.048	0.049	0.049	0.052	10:38:03 AM	9/21/2011 10:38	0.052
11700	0.062	0.064	0.067	0.076	10:39:03 AM	9/21/2011 10:39	0.078
11760	0.058	0.059	0.062	0.072	10:40:03 AM	9/21/2011 10:40	0.075
11820	0.052	0.054	0.055	0.063	10:41:03 AM	9/21/2011 10:41	0.065
11880	0.06	0.06	0.061	0.063	10:42:03 AM	9/21/2011 10:42	0.064
11940	0.048	0.049	0.049	0.052	10:43:03 AM	9/21/2011 10:43	0.053
12000	0.05	0.051	0.052	0.056	10:44:03 AM	9/21/2011 10:44	0.056
12060	0.053	0.054	0.055	0.059	10:45:03 AM	9/21/2011 10:45	0.06
12120	0.043	0.043	0.044	0.045	10:46:03 AM	9/21/2011 10:46	0.045
12180	0.042	0.042	0.043	0.045	10:47:03 AM	9/21/2011 10:47	0.046
12240	0.04	0.041	0.041	0.043	10:48:03 AM	9/21/2011 10:48	0.043
12300	0.042	0.043	0.043	0.045	10:49:03 AM	9/21/2011 10:49	0.045
12360	0.044	0.045	0.046	0.048	10:50:03 AM	9/21/2011 10:50	0.048
12420	0.044	0.045	0.046	0.048	10:51:03 AM	9/21/2011 10:51	0.049
12480	0.051	0.052	0.054	0.061	10:52:03 AM	9/21/2011 10:52	0.064
12540	0.049	0.05	0.051	0.055	10:53:03 AM	9/21/2011 10:53	0.057
12600	0.045	0.045	0.046	0.048	10:54:03 AM	9/21/2011 10:54	0.048
12660	0.043	0.043	0.044	0.045	10:55:03 AM	9/21/2011 10:55	0.046
12720	0.048	0.049	0.05	0.055	10:56:03 AM	9/21/2011 10:56	0.057
12780	0.047	0.048	0.049	0.055	10:57:03 AM	9/21/2011 10:57	0.057
12840	0.082	0.086	0.094	0.132	10:58:03 AM	9/21/2011 10:58	0.143
12900	0.099	0.105	0.118	0.173	10:59:03 AM	9/21/2011 10:59	0.191
12960	0.082	0.086	0.096	0.136	11:00:03 AM	9/21/2011 11:00	0.147
13020	0.065	0.068	0.072	0.094	11:01:03 AM	9/21/2011 11:01	0.101
13080	0.037	0.038	0.039	0.043	11:02:03 AM	9/21/2011 11:02	0.044
13140	0.033	0.033	0.034	0.036	11:03:03 AM	9/21/2011 11:03	0.037
13200	0.033	0.033	0.033	0.035	11:04:03 AM	9/21/2011 11:04	0.035
13260	0.035	0.035	0.036	0.038	11:05:03 AM	9/21/2011 11:05	0.039
13320	0.032	0.032	0.033	0.034	11:06:03 AM	9/21/2011 11:06	0.034
13380	0.033	0.033	0.034	0.035	11:07:03 AM	9/21/2011 11:07	0.035
13440	0.033	0.033	0.034	0.034	11:08:03 AM	9/21/2011 11:08	0.034
13500	0.038	0.038	0.039	0.041	11:09:03 AM	9/21/2011 11:09	0.041
13560	0.042	0.042	0.043	0.045	11:10:03 AM	9/21/2011 11:10	0.046
13620	0.038	0.039	0.039	0.041	11:11:03 AM	9/21/2011 11:11	0.041
13680	0.035	0.036	0.036	0.037	11:12:03 AM	9/21/2011 11:12	0.038
13740	0.039	0.039	0.04	0.042	11:13:03 AM	9/21/2011 11:13	0.042
13800	0.047	0.049	0.051	0.055	11:14:03 AM	9/21/2011 11:14	0.057
13860	0.039	0.04	0.04	0.043	11:15:03 AM	9/21/2011 11:15	0.043
13920	0.036	0.037	0.037	0.039	11:16:03 AM	9/21/2011 11:16	0.039
13980	0.036	0.036	0.037	0.038	11:17:03 AM	9/21/2011 11:17	0.038
14040	0.037	0.037	0.038	0.039	11:18:03 AM	9/21/2011 11:18	0.039
14100	0.039	0.039	0.04	0.043	11:19:03 AM	9/21/2011 11:19	0.043
14160	0.072	0.074	0.077	0.086	11:20:03 AM	9/21/2011 11:20	0.087
14220	0.04	0.041	0.042	0.045	11:21:03 AM	9/21/2011 11:21	0.046
14280	0.037	0.038	0.039	0.042	11:22:03 AM	9/21/2011 11:22	0.043
14340	0.045	0.047	0.049	0.056	11:23:03 AM	9/21/2011 11:23	0.057
14400	0.034	0.035	0.036	0.037	11:24:03 AM	9/21/2011 11:24	0.038
14460	0.032	0.032	0.032	0.034	11:25:03 AM	9/21/2011 11:25	0.034
14520	0.034	0.034	0.035	0.036	11:26:03 AM	9/21/2011 11:26	0.036
14580	0.042	0.043	0.045	0.048	11:27:03 AM	9/21/2011 11:27	0.048
14640	0.04	0.041	0.042	0.044	11:28:03 AM	9/21/2011 11:28	0.045
14700	0.035	0.036	0.036	0.037	11:29:03 AM	9/21/2011 11:29	0.037
14760	0.034	0.035	0.035	0.036	11:30:03 AM	9/21/2011 11:30	0.036
14820	0.039	0.039	0.04	0.042	11:31:03 AM	9/21/2011 11:31	0.044
14880	0.044	0.045	0.047	0.053	11:32:03 AM	9/21/2011 11:32	0.055
14940	0.037	0.038	0.039	0.044	11:33:03 AM	9/21/2011 11:33	0.047
15000	0.029	0.029	0.03	0.03	11:34:03 AM	9/21/2011 11:34	0.03
15060	0.029	0.029	0.03	0.03	11:35:03 AM	9/21/2011 11:35	0.03

15120	0.036	0.036	0.038	0.041	11:36:03 AM	9/21/2011 11:36	0.043
15180	0.042	0.043	0.045	0.052	11:37:03 AM	9/21/2011 11:37	0.053
15240	0.051	0.053	0.055	0.065	11:38:03 AM	9/21/2011 11:38	0.067
15300	0.053	0.055	0.058	0.068	11:39:03 AM	9/21/2011 11:39	0.07
15360	0.049	0.05	0.053	0.063	11:40:03 AM	9/21/2011 11:40	0.065
15420	0.055	0.058	0.061	0.075	11:41:03 AM	9/21/2011 11:41	0.078
15480	0.071	0.076	0.082	0.1	11:42:03 AM	9/21/2011 11:42	0.106
15540	0.046	0.047	0.049	0.057	11:43:03 AM	9/21/2011 11:43	0.058
15600	0.033	0.033	0.034	0.036	11:44:03 AM	9/21/2011 11:44	0.037
15660	0.031	0.031	0.032	0.033	11:45:03 AM	9/21/2011 11:45	0.033
15720	0.033	0.034	0.034	0.037	11:46:03 AM	9/21/2011 11:46	0.038
15780	0.045	0.046	0.047	0.057	11:47:03 AM	9/21/2011 11:47	0.06
15840	0.045	0.046	0.048	0.054	11:48:03 AM	9/21/2011 11:48	0.055
15900	0.058	0.06	0.062	0.072	11:49:03 AM	9/21/2011 11:49	0.075
15960	0.052	0.054	0.056	0.066	11:50:03 AM	9/21/2011 11:50	0.07
16020	0.071	0.075	0.081	0.116	11:51:03 AM	9/21/2011 11:51	0.124
16080	0.066	0.069	0.075	0.1	11:52:03 AM	9/21/2011 11:52	0.106
16140	0.045	0.047	0.049	0.061	11:53:03 AM	9/21/2011 11:53	0.063
16200	0.03	0.03	0.03	0.032	11:54:03 AM	9/21/2011 11:54	0.032
16260	0.031	0.032	0.033	0.038	11:55:03 AM	9/21/2011 11:55	0.039
16320	0.031	0.032	0.034	0.043	11:56:03 AM	9/21/2011 11:56	0.045
16380	0.041	0.042	0.047	0.073	11:57:03 AM	9/21/2011 11:57	0.082
16440	0.05	0.05	0.052	0.056	11:58:03 AM	9/21/2011 11:58	0.057
16500	0.028	0.028	0.029	0.032	11:59:03 AM	9/21/2011 11:59	0.032
16560	0.026	0.026	0.026	0.027	12:00:03 PM	9/21/2011 12:00	0.027
16620	0.029	0.029	0.03	0.033	12:01:03 PM	9/21/2011 12:01	0.034
16680	0.027	0.027	0.028	0.028	12:02:03 PM	9/21/2011 12:02	0.028
16740	0.028	0.028	0.028	0.028	12:03:03 PM	9/21/2011 12:03	0.029
16800	0.069	0.072	0.082	0.129	12:04:03 PM	9/21/2011 12:04	0.142
16860	0.044	0.046	0.049	0.066	12:05:03 PM	9/21/2011 12:05	0.071
16920	0.034	0.034	0.036	0.042	12:06:03 PM	9/21/2011 12:06	0.043
16980	0.032	0.032	0.033	0.035	12:07:03 PM	9/21/2011 12:07	0.036
17040	0.06	0.062	0.068	0.095	12:08:03 PM	9/21/2011 12:08	0.103
17100	0.101	0.107	0.122	0.189	12:09:03 PM	9/21/2011 12:09	0.206
17160	0.132	0.142	0.163	0.256	12:10:03 PM	9/21/2011 12:10	0.28
17220	0.119	0.126	0.144	0.217	12:11:03 PM	9/21/2011 12:11	0.247
17280	0.055	0.057	0.062	0.084	12:12:03 PM	9/21/2011 12:12	0.088
17340	0.047	0.049	0.053	0.065	12:13:03 PM	9/21/2011 12:13	0.067
17400	0.045	0.048	0.052	0.063	12:14:03 PM	9/21/2011 12:14	0.066
17460	0.057	0.06	0.065	0.082	12:15:03 PM	9/21/2011 12:15	0.087
17520	0.084	0.089	0.099	0.138	12:16:03 PM	9/21/2011 12:16	0.148
17580	0.091	0.096	0.106	0.146	12:17:03 PM	9/21/2011 12:17	0.155
17640	0.109	0.116	0.129	0.186	12:18:03 PM	9/21/2011 12:18	0.2
17700	0.075	0.079	0.086	0.115	12:19:03 PM	9/21/2011 12:19	0.12
17760	0.054	0.056	0.06	0.075	12:20:03 PM	9/21/2011 12:20	0.078
17820	0.044	0.046	0.048	0.057	12:21:03 PM	9/21/2011 12:21	0.058
17880	0.054	0.056	0.061	0.08	12:22:03 PM	9/21/2011 12:22	0.083
17940	0.068	0.071	0.078	0.109	12:23:03 PM	9/21/2011 12:23	0.115
18000	0.07	0.074	0.083	0.111	12:24:03 PM	9/21/2011 12:24	0.114
18060	0.068	0.072	0.08	0.11	12:25:03 PM	9/21/2011 12:25	0.116
18120	0.064	0.068	0.074	0.094	12:26:03 PM	9/21/2011 12:26	0.1
18180	0.071	0.075	0.081	0.1	12:27:03 PM	9/21/2011 12:27	0.105
18240	0.061	0.063	0.067	0.081	12:28:03 PM	9/21/2011 12:28	0.085
18300	0.052	0.054	0.057	0.065	12:29:03 PM	9/21/2011 12:29	0.066
18360	0.05	0.052	0.055	0.071	12:30:03 PM	9/21/2011 12:30	0.075
18420	0.045	0.046	0.048	0.056	12:31:03 PM	9/21/2011 12:31	0.057
18480	0.051	0.053	0.056	0.063	12:32:03 PM	9/21/2011 12:32	0.065
18540	0.065	0.068	0.071	0.08	12:33:03 PM	9/21/2011 12:33	0.082
18600	0.065	0.068	0.073	0.096	12:34:03 PM	9/21/2011 12:34	0.102
18660	0.098	0.103	0.117	0.182	12:35:03 PM	9/21/2011 12:35	0.197
18720	0.068	0.072	0.079	0.116	12:36:03 PM	9/21/2011 12:36	0.123
18780	0.068	0.072	0.079	0.104	12:37:03 PM	9/21/2011 12:37	0.112
18840	0.095	0.102	0.116	0.171	12:38:03 PM	9/21/2011 12:38	0.185
18900	0.08	0.084	0.096	0.146	12:39:03 PM	9/21/2011 12:39	0.156
18960	0.082	0.087	0.1	0.151	12:40:03 PM	9/21/2011 12:40	0.16
19020	0.05	0.052	0.057	0.075	12:41:03 PM	9/21/2011 12:41	0.078
19080	0.081	0.086	0.097	0.138	12:42:03 PM	9/21/2011 12:42	0.146
19140	0.062	0.065	0.072	0.097	12:43:03 PM	9/21/2011 12:43	0.104
19200	0.058	0.06	0.065	0.078	12:44:03 PM	9/21/2011 12:44	0.08
19260	0.047	0.048	0.05	0.056	12:45:03 PM	9/21/2011 12:45	0.057
19320	0.039	0.04	0.041	0.045	12:46:03 PM	9/21/2011 12:46	0.045
19380	0.041	0.042	0.043	0.047	12:47:03 PM	9/21/2011 12:47	0.048
19440	0.051	0.051	0.052	0.055	12:48:03 PM	9/21/2011 12:48	0.056
19500	0.044	0.045	0.045	0.047	12:49:03 PM	9/21/2011 12:49	0.047
19560	0.041	0.041	0.042	0.043	12:50:03 PM	9/21/2011 12:50	0.043
19620	0.042	0.042	0.043	0.048	12:51:03 PM	9/21/2011 12:51	0.05
19680	0.041	0.042	0.043	0.047	12:52:03 PM	9/21/2011 12:52	0.048
19740	0.05	0.052	0.055	0.068	12:53:03 PM	9/21/2011 12:53	0.072
19800	0.049	0.051	0.053	0.06	12:54:03 PM	9/21/2011 12:54	0.062
19860	0.056	0.058	0.061	0.07	12:55:03 PM	9/21/2011 12:55	0.072
19920	0.043	0.044	0.045	0.049	12:56:03 PM	9/21/2011 12:56	0.05
19980	0.077	0.08	0.089	0.115	12:57:03 PM	9/21/2011 12:57	0.121
20040	0.116	0.12	0.128	0.164	12:58:03 PM	9/21/2011 12:58	0.171
20100	0.064	0.066	0.07	0.086	12:59:03 PM	9/21/2011 12:59	0.089
20160	0.047	0.048	0.05	0.058	1:00:03 PM	9/21/2011 13:00	0.059
20220	0.045	0.046	0.047	0.052	1:01:03 PM	9/21/2011 13:01	0.053
20280	0.066	0.068	0.074	0.1	1:02:03 PM	9/21/2011 13:02	0.107
20340	0.042	0.042	0.043	0.048	1:03:03 PM	9/21/2011 13:03	0.049
20400	0.056	0.058	0.062	0.078	1:04:03 PM	9/21/2011 13:04	0.082
20460	0.055	0.056	0.058	0.068	1:05:03 PM	9/21/2011 13:05	0.072
20520	0.063	0.066	0.069	0.084	1:06:03 PM	9/21/2011 13:06	0.087
20580	0.247	0.265	0.325	0.59	1:07:03 PM	9/21/2011 13:07	0.629
20640	0.164	0.177	0.22	0.395	1:08:03 PM	9/21/2011 13:08	0.418
20700	0.043	0.044	0.045	0.05	1:09:03 PM	9/21/2011 13:09	0.05
20760	0.039	0.039	0.04	0.042	1:10:03 PM	9/21/2011 13:10	0.044
20820	0.036	0.036	0.037	0.039	1:11:03 PM	9/21/2011 13:11	0.039

20880	0.037	0.038	0.038	0.041	1:12:03 PM	9/21/2011 13:12	0.043
20940	0.044	0.045	0.047	0.056	1:13:03 PM	9/21/2011 13:13	0.058
21000	0.046	0.047	0.05	0.057	1:14:03 PM	9/21/2011 13:14	0.059
21060	0.061	0.063	0.068	0.088	1:15:03 PM	9/21/2011 13:15	0.094
21120	0.062	0.063	0.066	0.081	1:16:03 PM	9/21/2011 13:16	0.087
21180	0.038	0.039	0.039	0.041	1:17:03 PM	9/21/2011 13:17	0.042
21240	0.039	0.039	0.04	0.043	1:18:03 PM	9/21/2011 13:18	0.044
21300	0.042	0.043	0.044	0.047	1:19:03 PM	9/21/2011 13:19	0.048
21360	0.045	0.045	0.047	0.051	1:20:03 PM	9/21/2011 13:20	0.054
21420	0.046	0.047	0.049	0.054	1:21:03 PM	9/21/2011 13:21	0.055
21480	0.069	0.072	0.079	0.103	1:22:03 PM	9/21/2011 13:22	0.108
21540	0.079	0.083	0.09	0.115	1:23:03 PM	9/21/2011 13:23	0.121
21600	0.049	0.05	0.052	0.06	1:24:03 PM	9/21/2011 13:24	0.063
21660	0.049	0.051	0.054	0.061	1:25:03 PM	9/21/2011 13:25	0.064
21720	0.036	0.037	0.039	0.047	1:26:03 PM	9/21/2011 13:26	0.049
21780	0.05	0.052	0.056	0.072	1:27:03 PM	9/21/2011 13:27	0.074
21840	0.053	0.056	0.061	0.074	1:28:03 PM	9/21/2011 13:28	0.078
21900	0.062	0.065	0.072	0.092	1:29:03 PM	9/21/2011 13:29	0.096
21960	0.048	0.051	0.054	0.066	1:30:03 PM	9/21/2011 13:30	0.068
22020	0.042	0.043	0.046	0.056	1:31:03 PM	9/21/2011 13:31	0.059
22080	0.044	0.046	0.049	0.06	1:32:03 PM	9/21/2011 13:32	0.064
22140	0.038	0.04	0.042	0.055	1:33:03 PM	9/21/2011 13:33	0.057
22200	0.045	0.047	0.051	0.067	1:34:03 PM	9/21/2011 13:34	0.073
22260	0.05	0.053	0.058	0.074	1:35:03 PM	9/21/2011 13:35	0.079
22320	0.052	0.055	0.059	0.076	1:36:03 PM	9/21/2011 13:36	0.081
22380	0.074	0.076	0.081	0.102	1:37:03 PM	9/21/2011 13:37	0.11
22440	0.053	0.055	0.06	0.077	1:38:03 PM	9/21/2011 13:38	0.081
22500	0.051	0.053	0.058	0.078	1:39:03 PM	9/21/2011 13:39	0.082
22560	0.043	0.045	0.05	0.067	1:40:03 PM	9/21/2011 13:40	0.071
22620	0.045	0.047	0.052	0.068	1:41:03 PM	9/21/2011 13:41	0.073
22680	0.123	0.125	0.13	0.156	1:42:03 PM	9/21/2011 13:42	0.161
22740	0.131	0.138	0.158	0.259	1:43:03 PM	9/21/2011 13:43	0.285
22800	0.077	0.081	0.093	0.145	1:44:03 PM	9/21/2011 13:44	0.16
22860	0.05	0.052	0.058	0.082	1:45:03 PM	9/21/2011 13:45	0.088
22920	0.028	0.029	0.03	0.038	1:46:03 PM	9/21/2011 13:46	0.04
22980	0.023	0.024	0.025	0.029	1:47:03 PM	9/21/2011 13:47	0.029
23040	0.035	0.036	0.039	0.052	1:48:03 PM	9/21/2011 13:48	0.055
23100	0.071	0.074	0.083	0.136	1:49:03 PM	9/21/2011 13:49	0.152
23160	0.046	0.049	0.053	0.071	1:50:03 PM	9/21/2011 13:50	0.078
23220	0.058	0.061	0.069	0.103	1:51:03 PM	9/21/2011 13:51	0.113
23280	0.07	0.074	0.085	0.14	1:52:03 PM	9/21/2011 13:52	0.159
23340	0.054	0.058	0.066	0.102	1:53:03 PM	9/21/2011 13:53	0.112
23400	0.043	0.045	0.05	0.074	1:54:03 PM	9/21/2011 13:54	0.083
23460	0.086	0.093	0.109	0.181	1:55:03 PM	9/21/2011 13:55	0.202
23520	0.109	0.117	0.137	0.231	1:56:03 PM	9/21/2011 13:56	0.258
23580	0.09	0.097	0.113	0.197	1:57:03 PM	9/21/2011 13:57	0.219
23640	0.052	0.056	0.063	0.099	1:58:03 PM	9/21/2011 13:58	0.112
23700	0.034	0.036	0.039	0.053	1:59:03 PM	9/21/2011 13:59	0.056
23760	0.036	0.038	0.041	0.057	2:00:03 PM	9/21/2011 14:00	0.064
23820	0.035	0.036	0.038	0.047	2:01:03 PM	9/21/2011 14:01	0.051
23880	0.039	0.04	0.043	0.054	2:02:03 PM	9/21/2011 14:02	0.059
23940	0.044	0.047	0.052	0.072	2:03:03 PM	9/21/2011 14:03	0.075
24000	0.026	0.027	0.029	0.035	2:04:03 PM	9/21/2011 14:04	0.036
24060	0.037	0.039	0.043	0.057	2:05:03 PM	9/21/2011 14:05	0.065
24120	0.028	0.029	0.031	0.038	2:06:03 PM	9/21/2011 14:06	0.041
24180	0.034	0.035	0.039	0.053	2:07:03 PM	9/21/2011 14:07	0.058
24240	0.054	0.058	0.065	0.095	2:08:03 PM	9/21/2011 14:08	0.103
24300	0.035	0.037	0.04	0.054	2:09:03 PM	9/21/2011 14:09	0.057
24360	0.029	0.031	0.033	0.041	2:10:03 PM	9/21/2011 14:10	0.045
24420	0.031	0.032	0.034	0.041	2:11:03 PM	9/21/2011 14:11	0.043
24480	0.035	0.037	0.04	0.046	2:12:03 PM	9/21/2011 14:12	0.05
24540	0.032	0.033	0.035	0.04	2:13:03 PM	9/21/2011 14:13	0.041
24600	0.027	0.028	0.029	0.032	2:14:03 PM	9/21/2011 14:14	0.032
24660	0.037	0.038	0.042	0.06	2:15:03 PM	9/21/2011 14:15	0.064
24720	0.033	0.034	0.037	0.049	2:16:03 PM	9/21/2011 14:16	0.052
24780	0.023	0.023	0.024	0.027	2:17:03 PM	9/21/2011 14:17	0.027
24840	0.026	0.027	0.029	0.033	2:18:03 PM	9/21/2011 14:18	0.033
24900	0.03	0.032	0.033	0.038	2:19:03 PM	9/21/2011 14:19	0.039
24960	0.029	0.03	0.032	0.039	2:20:03 PM	9/21/2011 14:20	0.04
25020	0.028	0.029	0.03	0.038	2:21:03 PM	9/21/2011 14:21	0.039
25080	0.026	0.027	0.028	0.031	2:22:03 PM	9/21/2011 14:22	0.032
25140	0.073	0.077	0.086	0.131	2:23:03 PM	9/21/2011 14:23	0.146
25200	0.082	0.088	0.1	0.152	2:24:03 PM	9/21/2011 14:24	0.172
25260	0.051	0.055	0.06	0.08	2:25:03 PM	9/21/2011 14:25	0.085
25320	0.049	0.053	0.058	0.076	2:26:03 PM	9/21/2011 14:26	0.082
25380	0.058	0.062	0.07	0.1	2:27:03 PM	9/21/2011 14:27	0.108
25440	0.043	0.045	0.049	0.066	2:28:03 PM	9/21/2011 14:28	0.071
25500	0.053	0.057	0.062	0.085	2:29:03 PM	9/21/2011 14:29	0.093
25560	0.055	0.059	0.065	0.09	2:30:03 PM	9/21/2011 14:30	0.097
25620	0.051	0.054	0.059	0.078	2:31:03 PM	9/21/2011 14:31	0.085
25680	0.057	0.061	0.068	0.09	2:32:03 PM	9/21/2011 14:32	0.098
25740	0.049	0.053	0.059	0.085	2:33:03 PM	9/21/2011 14:33	0.092
25800	0.052	0.056	0.062	0.085	2:34:03 PM	9/21/2011 14:34	0.092
25860	0.056	0.06	0.066	0.087	2:35:03 PM	9/21/2011 14:35	0.094
25920	0.047	0.05	0.054	0.072	2:36:03 PM	9/21/2011 14:36	0.075
25980	0.037	0.039	0.041	0.053	2:37:03 PM	9/21/2011 14:37	0.055
26040	0.031	0.032	0.034	0.04	2:38:03 PM	9/21/2011 14:38	0.04
26100	0.031	0.032	0.034	0.041	2:39:03 PM	9/21/2011 14:39	0.044
26160	0.025	0.026	0.026	0.028	2:40:03 PM	9/21/2011 14:40	0.029
26220	0.028	0.029	0.03	0.033	2:41:03 PM	9/21/2011 14:41	0.034
26280	0.115	0.124	0.147	0.245	2:42:03 PM	9/21/2011 14:42	0.266
26340	0.094	0.102	0.119	0.183	2:43:03 PM	9/21/2011 14:43	0.199
26400	0.045	0.047	0.053	0.073	2:44:03 PM	9/21/2011 14:44	0.076
26460	0.035	0.036	0.039	0.048	2:45:03 PM	9/21/2011 14:45	0.05
26520	0.04	0.042	0.045	0.055	2:46:03 PM	9/21/2011 14:46	0.059
26580	0.033	0.035	0.037	0.044	2:47:03 PM	9/21/2011 14:47	0.047

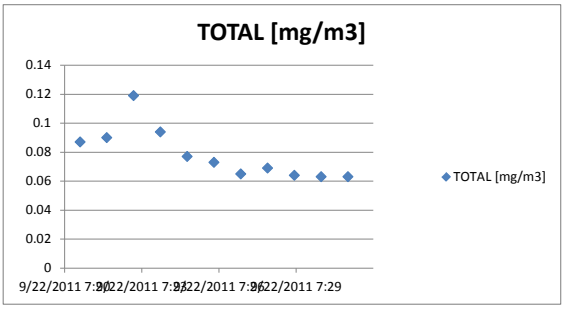
26640	0.032	0.033	0.035	0.041	2:48:03 PM	9/21/2011 14:48	0.041
26700	0.034	0.035	0.036	0.039	2:49:03 PM	9/21/2011 14:49	0.041
26760	0.071	0.076	0.085	0.122	2:50:03 PM	9/21/2011 14:50	0.129
26820	0.07	0.074	0.083	0.123	2:51:03 PM	9/21/2011 14:51	0.135
26880	0.079	0.084	0.095	0.152	2:52:03 PM	9/21/2011 14:52	0.17
26940	0.07	0.075	0.085	0.124	2:53:03 PM	9/21/2011 14:53	0.137
27000	0.07	0.075	0.083	0.119	2:54:03 PM	9/21/2011 14:54	0.127
27060	0.081	0.087	0.097	0.142	2:55:03 PM	9/21/2011 14:55	0.159
27120	0.085	0.09	0.1	0.148	2:56:03 PM	9/21/2011 14:56	0.175
27180	0.129	0.137	0.155	0.242	2:57:03 PM	9/21/2011 14:57	0.265
27240	0.094	0.101	0.115	0.187	2:58:03 PM	9/21/2011 14:58	0.204
27300	0.077	0.083	0.093	0.136	2:59:03 PM	9/21/2011 14:59	0.146
27360	0.082	0.088	0.099	0.146	3:00:03 PM	9/21/2011 15:00	0.16
27420	0.07	0.076	0.085	0.118	3:01:03 PM	9/21/2011 15:01	0.126
27480	0.042	0.045	0.049	0.065	3:02:03 PM	9/21/2011 15:02	0.068
27540	0.032	0.034	0.036	0.045	3:03:03 PM	9/21/2011 15:03	0.05
27600	0.023	0.024	0.025	0.027	3:04:03 PM	9/21/2011 15:04	0.027
27660	0.021	0.022	0.023	0.026	3:05:03 PM	9/21/2011 15:05	0.027
27720	0.025	0.026	0.027	0.033	3:06:03 PM	9/21/2011 15:06	0.034
27780	0.03	0.031	0.033	0.043	3:07:03 PM	9/21/2011 15:07	0.045
27840	0.03	0.031	0.034	0.044	3:08:03 PM	9/21/2011 15:08	0.047
27900	0.023	0.024	0.025	0.03	3:09:03 PM	9/21/2011 15:09	0.031
27960	0.143	0.148	0.158	0.203	3:10:03 PM	9/21/2011 15:10	0.213
28020	0.081	0.087	0.1	0.158	3:11:03 PM	9/21/2011 15:11	0.172
28080	0.051	0.055	0.062	0.093	3:12:03 PM	9/21/2011 15:12	0.101
28140	0.033	0.035	0.038	0.047	3:13:03 PM	9/21/2011 15:13	0.05
28200	0.038	0.041	0.045	0.057	3:14:03 PM	9/21/2011 15:14	0.06
28260	0.054	0.058	0.064	0.078	3:15:03 PM	9/21/2011 15:15	0.082
28320	0.071	0.077	0.084	0.108	3:16:03 PM	9/21/2011 15:16	0.113
28380	0.06	0.064	0.072	0.099	3:17:03 PM	9/21/2011 15:17	0.104
28440	0.143	0.155	0.183	0.31	3:18:03 PM	9/21/2011 15:18	0.338
28500	0.115	0.123	0.141	0.209	3:19:03 PM	9/21/2011 15:19	0.227
28560	0.13	0.14	0.161	0.247	3:20:03 PM	9/21/2011 15:20	0.268
28620	0.116	0.126	0.145	0.212	3:21:03 PM	9/21/2011 15:21	0.232
28680	0.097	0.104	0.119	0.179	3:22:03 PM	9/21/2011 15:22	0.194
28740	0.105	0.114	0.13	0.196	3:23:03 PM	9/21/2011 15:23	0.212
28800	0.089	0.097	0.111	0.164	3:24:03 PM	9/21/2011 15:24	0.177
28860	0.089	0.097	0.111	0.161	3:25:03 PM	9/21/2011 15:25	0.171
28920	0.065	0.07	0.08	0.116	3:26:03 PM	9/21/2011 15:26	0.125
28980	0.032	0.034	0.037	0.05	3:27:03 PM	9/21/2011 15:27	0.053
29040	0.054	0.058	0.064	0.086	3:28:03 PM	9/21/2011 15:28	0.09
29100	0.041	0.044	0.047	0.058	3:29:03 PM	9/21/2011 15:29	0.062
29160	0.047	0.05	0.055	0.07	3:30:03 PM	9/21/2011 15:30	0.073
29220	0.031	0.032	0.034	0.042	3:31:03 PM	9/21/2011 15:31	0.044
29280	0.026	0.027	0.029	0.038	3:32:03 PM	9/21/2011 15:32	0.04
29340	0.023	0.024	0.026	0.032	3:33:03 PM	9/21/2011 15:33	0.033
29400	0.04	0.043	0.047	0.061	3:34:03 PM	9/21/2011 15:34	0.065
29460	0.057	0.062	0.068	0.093	3:35:03 PM	9/21/2011 15:35	0.097
29520	0.12	0.128	0.147	0.235	3:36:03 PM	9/21/2011 15:36	0.263
29580	0.124	0.133	0.154	0.254	3:37:03 PM	9/21/2011 15:37	0.283
29640	0.054	0.058	0.064	0.092	3:38:03 PM	9/21/2011 15:38	0.101
29700	0.032	0.033	0.036	0.044	3:39:03 PM	9/21/2011 15:39	0.049
29760	0.023	0.024	0.025	0.03	3:40:03 PM	9/21/2011 15:40	0.031
29820	0.023	0.024	0.025	0.028	3:41:03 PM	9/21/2011 15:41	0.028
29880	0.028	0.03	0.032	0.038	3:42:03 PM	9/21/2011 15:42	0.041
29940	0.06	0.067	0.078	0.105	3:43:03 PM	9/21/2011 15:43	0.109
30000	0.983	1.12	1.5	2.49	3:44:03 PM	9/21/2011 15:44	2.58
30060	0.12	0.131	0.155	0.247	3:45:03 PM	9/21/2011 15:45	0.274
30120	0.046	0.049	0.057	0.086	3:46:03 PM	9/21/2011 15:46	0.096
30180	0.031	0.033	0.036	0.049	3:47:03 PM	9/21/2011 15:47	0.052
30240	0.055	0.06	0.069	0.101	3:48:03 PM	9/21/2011 15:48	0.113
30300	0.041	0.044	0.05	0.074	3:49:03 PM	9/21/2011 15:49	0.079
30360	0.043	0.047	0.053	0.075	3:50:03 PM	9/21/2011 15:50	0.08
30420	0.037	0.041	0.046	0.063	3:51:03 PM	9/21/2011 15:51	0.068
30480	0.032	0.035	0.039	0.05	3:52:03 PM	9/21/2011 15:52	0.053
30540	0.09	0.099	0.117	0.18	3:53:03 PM	9/21/2011 15:53	0.206
30600	0.156	0.172	0.206	0.336	3:54:03 PM	9/21/2011 15:54	0.37
30660	0.277	0.303	0.373	0.696	3:55:03 PM	9/21/2011 15:55	0.78
30720	0.102	0.111	0.133	0.225	3:56:03 PM	9/21/2011 15:56	0.249
30780	0.069	0.074	0.085	0.129	3:57:03 PM	9/21/2011 15:57	0.141
30840	0.071	0.075	0.083	0.111	3:58:03 PM	9/21/2011 15:58	0.119
30900	0.086	0.092	0.106	0.154	3:59:03 PM	9/21/2011 15:59	0.169
30960	0.038	0.04	0.042	0.05	4:00:03 PM	9/21/2011 16:00	0.053
31020	0.035	0.036	0.039	0.047	4:01:03 PM	9/21/2011 16:01	0.049
31080	0.036	0.038	0.04	0.052	4:02:03 PM	9/21/2011 16:02	0.055
31140	0.036	0.037	0.04	0.049	4:03:03 PM	9/21/2011 16:03	0.052
31200	0.061	0.065	0.072	0.094	4:04:03 PM	9/21/2011 16:04	0.099
31260	0.031	0.033	0.036	0.044	4:05:03 PM	9/21/2011 16:05	0.046
31320	0.033	0.034	0.037	0.049	4:06:03 PM	9/21/2011 16:06	0.051
31380	0.039	0.041	0.045	0.059	4:07:03 PM	9/21/2011 16:07	0.061
31440	0.036	0.037	0.04	0.046	4:08:03 PM	9/21/2011 16:08	0.047
31500	0.033	0.035	0.037	0.045	4:09:03 PM	9/21/2011 16:09	0.046
31560	0.072	0.078	0.093	0.156	4:10:03 PM	9/21/2011 16:10	0.174
31620	0.075	0.081	0.096	0.162	4:11:03 PM	9/21/2011 16:11	0.184
31680	0.116	0.125	0.15	0.258	4:12:03 PM	9/21/2011 16:12	0.29
31740	0.154	0.168	0.203	0.36	4:13:03 PM	9/21/2011 16:13	0.403
31800	0.097	0.106	0.124	0.197	4:14:03 PM	9/21/2011 16:14	0.222
31860	0.074	0.08	0.092	0.134	4:15:03 PM	9/21/2011 16:15	0.145

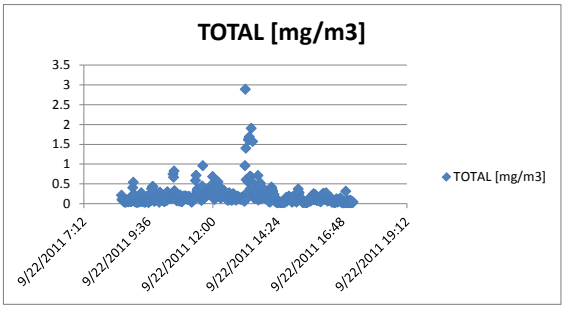
Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_004
Test Start Time	7:20:13
Test Start Date	9/22/2011
Test Length [D:H:M]	0:00:11
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.067
PM1 Minimum [mg/m3]	0.056
PM1 Maximum [mg/m3]	0.097
PM1 TWA [mg/m3]	0
PM2.5 Average [mg/m3]	0.068
PM2.5 Minimum [mg/m3]	0.058
PM2.5 Maximum [mg/m3]	0.1
PM2.5 TWA [mg/m3]	0
PM4 Average [mg/m3]	0.07
PM4 Minimum [mg/m3]	0.059
PM4 Maximum [mg/m3]	0.103
PM4 TWA [mg/m3]	0
PM10 Average [mg/m3]	0.076
PM10 Minimum [mg/m3]	0.062
PM10 Maximum [mg/m3]	0.114
PM10 TWA [mg/m3]	0
TOTAL Average [mg/m3]	0.079
TOTAL Minimum [mg/m3]	0.063
TOTAL Maximum [mg/m3]	0.119
TOTAL TWA [mg/m3]	0
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	11



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:20:13 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.066	0.068	0.071	0.081	7:21:13 AM	9/22/2011 7:21	0.087		
120	0.071	0.073	0.076	0.086	7:22:13 AM	9/22/2011 7:22	0.09		
180	0.097	0.1	0.103	0.114	7:23:13 AM	9/22/2011 7:23	0.119		
240	0.079	0.081	0.084	0.093	7:24:13 AM	9/22/2011 7:24	0.094		
300	0.066	0.068	0.07	0.075	7:25:13 AM	9/22/2011 7:25	0.077		
360	0.063	0.065	0.066	0.072	7:26:13 AM	9/22/2011 7:26	0.073		
420	0.059	0.06	0.062	0.065	7:27:13 AM	9/22/2011 7:27	0.065		
480	0.061	0.063	0.064	0.068	7:28:13 AM	9/22/2011 7:28	0.069		
540	0.057	0.058	0.059	0.062	7:29:13 AM	9/22/2011 7:29	0.064		
600	0.057	0.058	0.059	0.062	7:30:13 AM	9/22/2011 7:30	0.063		
660	0.056	0.058	0.059	0.062	7:31:13 AM	9/22/2011 7:31	0.063		

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_005
Test Start Time	8:35:15
Test Start Date	9/22/2011
Test Length [D:H:M]	0:08:37
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.096
PM1 Minimum [mg/m3]	0.017
PM1 Maximum [mg/m3]	0.972
PM1 TWA [mg/m3]	0.1
PM2.5 Average [mg/m3]	0.102
PM2.5 Minimum [mg/m3]	0.018
PM2.5 Maximum [mg/m3]	1.07
PM2.5 TWA [mg/m3]	0.107
PM4 Average [mg/m3]	0.116
PM4 Minimum [mg/m3]	0.018
PM4 Maximum [mg/m3]	1.37
PM4 TWA [mg/m3]	0.121
PM10 Average [mg/m3]	0.17
PM10 Minimum [mg/m3]	0.02
PM10 Maximum [mg/m3]	2.65
PM10 TWA [mg/m3]	0.179
TOTAL Average [mg/m3]	0.183
TOTAL Minimum [mg/m3]	0.02
TOTAL Maximum [mg/m3]	2.89
TOTAL TWA [mg/m3]	0.193
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	517





Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	8:35:15 AM	Date/Time	TOTAL [mg/m3]

60	0.133	0.137	0.144	0.187	8:36:15 AM	9/22/2011 8:36	0.214
120	0.078	0.081	0.085	0.101	8:37:15 AM	9/22/2011 8:37	0.105
180	0.065	0.068	0.071	0.081	8:38:15 AM	9/22/2011 8:38	0.084
240	0.079	0.083	0.088	0.105	8:39:15 AM	9/22/2011 8:39	0.11
300	0.077	0.08	0.084	0.097	8:40:15 AM	9/22/2011 8:40	0.101
360	0.049	0.051	0.052	0.054	8:41:15 AM	9/22/2011 8:41	0.055
420	0.042	0.043	0.044	0.045	8:42:15 AM	9/22/2011 8:42	0.045
480	0.039	0.04	0.04	0.041	8:43:15 AM	9/22/2011 8:43	0.042
540	0.038	0.038	0.039	0.039	8:44:15 AM	9/22/2011 8:44	0.039
600	0.04	0.041	0.041	0.043	8:45:15 AM	9/22/2011 8:45	0.043
660	0.054	0.055	0.056	0.058	8:46:15 AM	9/22/2011 8:46	0.058
720	0.04	0.041	0.041	0.042	8:47:15 AM	9/22/2011 8:47	0.042
780	0.051	0.053	0.054	0.06	8:48:15 AM	9/22/2011 8:48	0.062
840	0.059	0.06	0.063	0.072	8:49:15 AM	9/22/2011 8:49	0.075
900	0.073	0.076	0.08	0.094	8:50:15 AM	9/22/2011 8:50	0.098
960	0.046	0.047	0.048	0.051	8:51:15 AM	9/22/2011 8:51	0.051
1020	0.041	0.042	0.043	0.044	8:52:15 AM	9/22/2011 8:52	0.044
1080	0.083	0.086	0.089	0.101	8:53:15 AM	9/22/2011 8:53	0.105
1140	0.077	0.079	0.082	0.095	8:54:15 AM	9/22/2011 8:54	0.103
1200	0.091	0.095	0.1	0.119	8:55:15 AM	9/22/2011 8:55	0.125
1260	0.057	0.059	0.061	0.069	8:56:15 AM	9/22/2011 8:56	0.073
1320	0.047	0.048	0.049	0.052	8:57:15 AM	9/22/2011 8:57	0.054
1380	0.045	0.046	0.047	0.05	8:58:15 AM	9/22/2011 8:58	0.05
1440	0.061	0.063	0.065	0.076	8:59:15 AM	9/22/2011 8:59	0.079
1500	0.094	0.099	0.109	0.148	9:00:15 AM	9/22/2011 9:00	0.16
1560	0.184	0.196	0.229	0.367	9:01:15 AM	9/22/2011 9:01	0.404
1620	0.225	0.243	0.288	0.485	9:02:15 AM	9/22/2011 9:02	0.539
1680	0.116	0.124	0.143	0.224	9:03:15 AM	9/22/2011 9:03	0.244
1740	0.109	0.116	0.131	0.193	9:04:15 AM	9/22/2011 9:04	0.204
1800	0.08	0.084	0.093	0.126	9:05:15 AM	9/22/2011 9:05	0.135
1860	0.04	0.042	0.043	0.048	9:06:15 AM	9/22/2011 9:06	0.049
1920	0.038	0.039	0.04	0.045	9:07:15 AM	9/22/2011 9:07	0.046
1980	0.037	0.038	0.039	0.042	9:08:15 AM	9/22/2011 9:08	0.042
2040	0.035	0.035	0.036	0.036	9:09:15 AM	9/22/2011 9:09	0.036
2100	0.037	0.037	0.038	0.039	9:10:15 AM	9/22/2011 9:10	0.039
2160	0.035	0.036	0.036	0.04	9:11:15 AM	9/22/2011 9:11	0.042
2220	0.034	0.035	0.035	0.036	9:12:15 AM	9/22/2011 9:12	0.036
2280	0.035	0.036	0.036	0.037	9:13:15 AM	9/22/2011 9:13	0.038
2340	0.065	0.068	0.074	0.094	9:14:15 AM	9/22/2011 9:14	0.101
2400	0.094	0.099	0.108	0.145	9:15:15 AM	9/22/2011 9:15	0.155
2460	0.055	0.057	0.06	0.069	9:16:15 AM	9/22/2011 9:16	0.072
2520	0.041	0.042	0.043	0.047	9:17:15 AM	9/22/2011 9:17	0.047
2580	0.041	0.042	0.044	0.051	9:18:15 AM	9/22/2011 9:18	0.053
2640	0.108	0.115	0.131	0.196	9:19:15 AM	9/22/2011 9:19	0.212
2700	0.125	0.132	0.151	0.246	9:20:15 AM	9/22/2011 9:20	0.271
2760	0.052	0.054	0.058	0.075	9:21:15 AM	9/22/2011 9:21	0.078
2820	0.045	0.047	0.049	0.059	9:22:15 AM	9/22/2011 9:22	0.061
2880	0.045	0.047	0.048	0.055	9:23:15 AM	9/22/2011 9:23	0.057
2940	0.039	0.04	0.042	0.047	9:24:15 AM	9/22/2011 9:24	0.049
3000	0.092	0.098	0.11	0.157	9:25:15 AM	9/22/2011 9:25	0.172
3060	0.062	0.065	0.07	0.088	9:26:15 AM	9/22/2011 9:26	0.091
3120	0.034	0.034	0.035	0.037	9:27:15 AM	9/22/2011 9:27	0.037
3180	0.036	0.037	0.038	0.039	9:28:15 AM	9/22/2011 9:28	0.04
3240	0.033	0.034	0.034	0.035	9:29:15 AM	9/22/2011 9:29	0.036
3300	0.061	0.064	0.069	0.092	9:30:15 AM	9/22/2011 9:30	0.1
3360	0.07	0.073	0.08	0.105	9:31:15 AM	9/22/2011 9:31	0.111
3420	0.074	0.079	0.087	0.116	9:32:15 AM	9/22/2011 9:32	0.124
3480	0.089	0.096	0.109	0.169	9:33:15 AM	9/22/2011 9:33	0.188
3540	0.054	0.057	0.063	0.086	9:34:15 AM	9/22/2011 9:34	0.094
3600	0.031	0.032	0.034	0.037	9:35:15 AM	9/22/2011 9:35	0.038
3660	0.034	0.034	0.035	0.036	9:36:15 AM	9/22/2011 9:36	0.037
3720	0.033	0.033	0.034	0.036	9:37:15 AM	9/22/2011 9:37	0.036
3780	0.046	0.047	0.048	0.051	9:38:15 AM	9/22/2011 9:38	0.051
3840	0.044	0.046	0.049	0.062	9:39:15 AM	9/22/2011 9:39	0.064
3900	0.099	0.105	0.12	0.194	9:40:15 AM	9/22/2011 9:40	0.22
3960	0.054	0.058	0.065	0.094	9:41:15 AM	9/22/2011 9:41	0.102
4020	0.045	0.047	0.052	0.07	9:42:15 AM	9/22/2011 9:42	0.075
4080	0.161	0.175	0.21	0.348	9:43:15 AM	9/22/2011 9:43	0.379
4140	0.16	0.173	0.207	0.345	9:44:15 AM	9/22/2011 9:44	0.376
4200	0.187	0.203	0.244	0.401	9:45:15 AM	9/22/2011 9:45	0.429
4260	0.185	0.203	0.244	0.397	9:46:15 AM	9/22/2011 9:46	0.431
4320	0.155	0.17	0.203	0.316	9:47:15 AM	9/22/2011 9:47	0.338
4380	0.073	0.078	0.088	0.124	9:48:15 AM	9/22/2011 9:48	0.133
4440	0.043	0.045	0.048	0.056	9:49:15 AM	9/22/2011 9:49	0.057
4500	0.058	0.061	0.067	0.087	9:50:15 AM	9/22/2011 9:50	0.093
4560	0.051	0.054	0.057	0.07	9:51:15 AM	9/22/2011 9:51	0.072
4620	0.08	0.086	0.095	0.133	9:52:15 AM	9/22/2011 9:52	0.14
4680	0.115	0.12	0.132	0.17	9:53:15 AM	9/22/2011 9:53	0.18
4740	0.101	0.107	0.117	0.155	9:54:15 AM	9/22/2011 9:54	0.167
4800	0.074	0.078	0.083	0.098	9:55:15 AM	9/22/2011 9:55	0.103
4860	0.111	0.118	0.131	0.18	9:56:15 AM	9/22/2011 9:56	0.188
4920	0.09	0.096	0.107	0.142	9:57:15 AM	9/22/2011 9:57	0.152
4980	0.101	0.108	0.123	0.178	9:58:15 AM	9/22/2011 9:58	0.19
5040	0.049	0.051	0.055	0.066	9:59:15 AM	9/22/2011 9:59	0.069
5100	0.029	0.03	0.03	0.033	10:00:15 AM	9/22/2011 10:00	0.033
5160	0.12	0.129	0.152	0.256	10:01:15 AM	9/22/2011 10:01	0.28
5220	0.131	0.142	0.167	0.262	10:02:15 AM	9/22/2011 10:02	0.286

5280	0.097	0.104	0.116	0.171	10:03:15 AM	9/22/2011 10:03	0.186
5340	0.079	0.084	0.093	0.129	10:04:15 AM	9/22/2011 10:04	0.138
5400	0.09	0.096	0.106	0.143	10:05:15 AM	9/22/2011 10:05	0.15
5460	0.125	0.13	0.14	0.175	10:06:15 AM	9/22/2011 10:06	0.185
5520	0.075	0.08	0.089	0.13	10:07:15 AM	9/22/2011 10:07	0.144
5580	0.063	0.066	0.073	0.104	10:08:15 AM	9/22/2011 10:08	0.117
5640	0.049	0.051	0.055	0.071	10:09:15 AM	9/22/2011 10:09	0.078
5700	0.059	0.062	0.066	0.079	10:10:15 AM	9/22/2011 10:10	0.084
5760	0.044	0.045	0.047	0.05	10:11:15 AM	9/22/2011 10:11	0.051
5820	0.042	0.043	0.046	0.054	10:12:15 AM	9/22/2011 10:12	0.056
5880	0.052	0.055	0.06	0.077	10:13:15 AM	9/22/2011 10:13	0.08
5940	0.09	0.097	0.108	0.143	10:14:15 AM	9/22/2011 10:14	0.151
6000	0.098	0.105	0.116	0.153	10:15:15 AM	9/22/2011 10:15	0.162
6060	0.081	0.083	0.087	0.1	10:16:15 AM	9/22/2011 10:16	0.102
6120	0.056	0.059	0.063	0.077	10:17:15 AM	9/22/2011 10:17	0.079
6180	0.133	0.14	0.158	0.258	10:18:15 AM	9/22/2011 10:18	0.298
6240	0.106	0.112	0.126	0.187	10:19:15 AM	9/22/2011 10:19	0.206
6300	0.079	0.084	0.093	0.123	10:20:15 AM	9/22/2011 10:20	0.132
6360	0.093	0.098	0.107	0.145	10:21:15 AM	9/22/2011 10:21	0.156
6420	0.086	0.091	0.098	0.127	10:22:15 AM	9/22/2011 10:22	0.136
6480	0.091	0.096	0.104	0.134	10:23:15 AM	9/22/2011 10:23	0.143
6540	0.096	0.102	0.11	0.142	10:24:15 AM	9/22/2011 10:24	0.152
6600	0.076	0.081	0.088	0.119	10:25:15 AM	9/22/2011 10:25	0.128
6660	0.1	0.106	0.115	0.151	10:26:15 AM	9/22/2011 10:26	0.165
6720	0.098	0.102	0.106	0.12	10:27:15 AM	9/22/2011 10:27	0.126
6780	0.142	0.146	0.152	0.175	10:28:15 AM	9/22/2011 10:28	0.181
6840	0.114	0.12	0.13	0.165	10:29:15 AM	9/22/2011 10:29	0.175
6900	0.106	0.111	0.118	0.152	10:30:15 AM	9/22/2011 10:30	0.159
6960	0.309	0.333	0.406	0.689	10:31:15 AM	9/22/2011 10:31	0.745
7020	0.263	0.281	0.337	0.595	10:32:15 AM	9/22/2011 10:32	0.667
7080	0.328	0.351	0.424	0.76	10:33:15 AM	9/22/2011 10:33	0.823
7140	0.159	0.173	0.202	0.301	10:34:15 AM	9/22/2011 10:34	0.326
7200	0.148	0.161	0.183	0.251	10:35:15 AM	9/22/2011 10:35	0.264
7260	0.11	0.118	0.132	0.178	10:36:15 AM	9/22/2011 10:36	0.188
7320	0.092	0.098	0.11	0.156	10:37:15 AM	9/22/2011 10:37	0.168
7380	0.063	0.066	0.072	0.094	10:38:15 AM	9/22/2011 10:38	0.102
7440	0.05	0.052	0.055	0.069	10:39:15 AM	9/22/2011 10:39	0.074
7500	0.098	0.104	0.116	0.164	10:40:15 AM	9/22/2011 10:40	0.18
7560	0.105	0.112	0.126	0.181	10:41:15 AM	9/22/2011 10:41	0.197
7620	0.078	0.083	0.092	0.121	10:42:15 AM	9/22/2011 10:42	0.131
7680	0.077	0.082	0.091	0.122	10:43:15 AM	9/22/2011 10:43	0.13
7740	0.042	0.044	0.047	0.058	10:44:15 AM	9/22/2011 10:44	0.063
7800	0.067	0.071	0.078	0.105	10:45:15 AM	9/22/2011 10:45	0.114
7860	0.076	0.081	0.089	0.128	10:46:15 AM	9/22/2011 10:46	0.139
7920	0.108	0.117	0.134	0.198	10:47:15 AM	9/22/2011 10:47	0.217
7980	0.059	0.063	0.07	0.095	10:48:15 AM	9/22/2011 10:48	0.101
8040	0.04	0.042	0.045	0.053	10:49:15 AM	9/22/2011 10:49	0.056
8100	0.045	0.047	0.05	0.055	10:50:15 AM	9/22/2011 10:50	0.058
8160	0.043	0.045	0.047	0.051	10:51:15 AM	9/22/2011 10:51	0.052
8220	0.068	0.073	0.081	0.106	10:52:15 AM	9/22/2011 10:52	0.114
8280	0.078	0.084	0.095	0.132	10:53:15 AM	9/22/2011 10:53	0.142
8340	0.093	0.1	0.112	0.165	10:54:15 AM	9/22/2011 10:54	0.184
8400	0.074	0.078	0.085	0.115	10:55:15 AM	9/22/2011 10:55	0.125
8460	0.112	0.118	0.131	0.174	10:56:15 AM	9/22/2011 10:56	0.185
8520	0.076	0.081	0.089	0.116	10:57:15 AM	9/22/2011 10:57	0.128
8580	0.097	0.103	0.116	0.174	10:58:15 AM	9/22/2011 10:58	0.194
8640	0.07	0.075	0.084	0.117	10:59:15 AM	9/22/2011 10:59	0.131
8700	0.082	0.087	0.095	0.123	11:00:15 AM	9/22/2011 11:00	0.134
8760	0.092	0.097	0.108	0.162	11:01:15 AM	9/22/2011 11:01	0.183
8820	0.067	0.071	0.076	0.103	11:02:15 AM	9/22/2011 11:02	0.114
8880	0.077	0.08	0.084	0.101	11:03:15 AM	9/22/2011 11:03	0.106
8940	0.084	0.088	0.093	0.11	11:04:15 AM	9/22/2011 11:04	0.113
9000	0.09	0.096	0.103	0.127	11:05:15 AM	9/22/2011 11:05	0.133
9060	0.136	0.145	0.154	0.179	11:06:15 AM	9/22/2011 11:06	0.184
9120	0.102	0.108	0.113	0.132	11:07:15 AM	9/22/2011 11:07	0.138
9180	0.126	0.133	0.14	0.16	11:08:15 AM	9/22/2011 11:08	0.163
9240	0.073	0.077	0.081	0.091	11:09:15 AM	9/22/2011 11:09	0.094
9300	0.079	0.083	0.087	0.097	11:10:15 AM	9/22/2011 11:10	0.1
9360	0.071	0.075	0.079	0.099	11:11:15 AM	9/22/2011 11:11	0.108
9420	0.033	0.034	0.035	0.037	11:12:15 AM	9/22/2011 11:12	0.037
9480	0.042	0.044	0.045	0.046	11:13:15 AM	9/22/2011 11:13	0.046
9540	0.067	0.071	0.079	0.111	11:14:15 AM	9/22/2011 11:14	0.118
9600	0.083	0.089	0.101	0.153	11:15:15 AM	9/22/2011 11:15	0.162
9660	0.073	0.078	0.085	0.109	11:16:15 AM	9/22/2011 11:16	0.116
9720	0.078	0.083	0.088	0.107	11:17:15 AM	9/22/2011 11:17	0.111
9780	0.078	0.081	0.085	0.094	11:18:15 AM	9/22/2011 11:18	0.097
9840	0.093	0.097	0.101	0.114	11:19:15 AM	9/22/2011 11:19	0.117
9900	0.119	0.124	0.128	0.138	11:20:15 AM	9/22/2011 11:20	0.142
9960	0.315	0.349	0.405	0.553	11:21:15 AM	9/22/2011 11:21	0.585
10020	0.375	0.418	0.492	0.678	11:22:15 AM	9/22/2011 11:22	0.715
10080	0.125	0.134	0.148	0.193	11:23:15 AM	9/22/2011 11:23	0.203
10140	0.177	0.191	0.216	0.296	11:24:15 AM	9/22/2011 11:24	0.311
10200	0.206	0.22	0.249	0.344	11:25:15 AM	9/22/2011 11:25	0.367
10260	0.224	0.234	0.251	0.307	11:26:15 AM	9/22/2011 11:26	0.321
10320	0.113	0.119	0.132	0.181	11:27:15 AM	9/22/2011 11:27	0.191
10380	0.115	0.122	0.139	0.21	11:28:15 AM	9/22/2011 11:28	0.224
10440	0.089	0.095	0.104	0.142	11:29:15 AM	9/22/2011 11:29	0.15

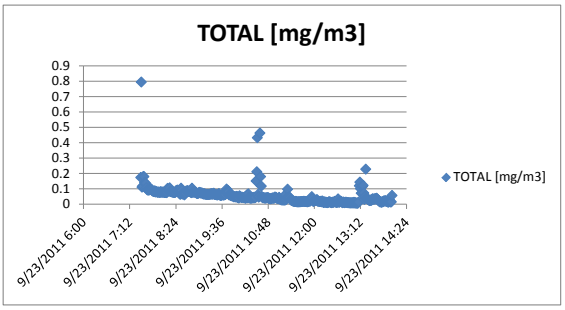
10500	0.118	0.122	0.129	0.156	11:30:15 AM	9/22/2011 11:30	0.164
10560	0.118	0.126	0.143	0.21	11:31:15 AM	9/22/2011 11:31	0.222
10620	0.08	0.084	0.092	0.122	11:32:15 AM	9/22/2011 11:32	0.127
10680	0.091	0.096	0.106	0.152	11:33:15 AM	9/22/2011 11:33	0.169
10740	0.056	0.059	0.062	0.076	11:34:15 AM	9/22/2011 11:34	0.079
10800	0.079	0.082	0.086	0.101	11:35:15 AM	9/22/2011 11:35	0.108
10860	0.208	0.226	0.267	0.412	11:36:15 AM	9/22/2011 11:36	0.443
10920	0.426	0.478	0.588	0.901	11:37:15 AM	9/22/2011 11:37	0.958
10980	0.121	0.129	0.138	0.16	11:38:15 AM	9/22/2011 11:38	0.166
11040	0.126	0.132	0.136	0.148	11:39:15 AM	9/22/2011 11:39	0.149
11100	0.102	0.106	0.111	0.122	11:40:15 AM	9/22/2011 11:40	0.124
11160	0.161	0.17	0.18	0.209	11:41:15 AM	9/22/2011 11:41	0.216
11220	0.14	0.146	0.153	0.181	11:42:15 AM	9/22/2011 11:42	0.189
11280	0.127	0.133	0.146	0.198	11:43:15 AM	9/22/2011 11:43	0.212
11340	0.134	0.141	0.152	0.195	11:44:15 AM	9/22/2011 11:44	0.204
11400	0.168	0.178	0.194	0.261	11:45:15 AM	9/22/2011 11:45	0.28
11460	0.134	0.143	0.157	0.217	11:46:15 AM	9/22/2011 11:46	0.235
11520	0.167	0.177	0.198	0.288	11:47:15 AM	9/22/2011 11:47	0.303
11580	0.135	0.143	0.155	0.207	11:48:15 AM	9/22/2011 11:48	0.22
11640	0.132	0.139	0.151	0.214	11:49:15 AM	9/22/2011 11:49	0.234
11700	0.185	0.195	0.213	0.294	11:50:15 AM	9/22/2011 11:50	0.318
11760	0.196	0.206	0.225	0.302	11:51:15 AM	9/22/2011 11:51	0.324
11820	0.222	0.231	0.245	0.31	11:52:15 AM	9/22/2011 11:52	0.336
11880	0.213	0.221	0.236	0.322	11:53:15 AM	9/22/2011 11:53	0.36
11940	0.157	0.164	0.175	0.22	11:54:15 AM	9/22/2011 11:54	0.231
12000	0.15	0.157	0.167	0.208	11:55:15 AM	9/22/2011 11:55	0.221
12060	0.217	0.228	0.252	0.358	11:56:15 AM	9/22/2011 11:56	0.39
12120	0.257	0.27	0.302	0.447	11:57:15 AM	9/22/2011 11:57	0.477
12180	0.233	0.246	0.264	0.337	11:58:15 AM	9/22/2011 11:58	0.359
12240	0.289	0.308	0.358	0.614	11:59:15 AM	9/22/2011 11:59	0.683
12300	0.182	0.19	0.211	0.335	12:00:15 PM	9/22/2011 12:00	0.38
12360	0.087	0.092	0.104	0.17	12:01:15 PM	9/22/2011 12:01	0.195
12420	0.062	0.065	0.073	0.116	12:02:15 PM	9/22/2011 12:02	0.133
12480	0.061	0.066	0.073	0.099	12:03:15 PM	9/22/2011 12:03	0.108
12540	0.08	0.086	0.095	0.13	12:04:15 PM	9/22/2011 12:04	0.14
12600	0.146	0.154	0.162	0.188	12:05:15 PM	9/22/2011 12:05	0.195
12660	0.151	0.157	0.167	0.21	12:06:15 PM	9/22/2011 12:06	0.22
12720	0.219	0.227	0.247	0.341	12:07:15 PM	9/22/2011 12:07	0.361
12780	0.183	0.191	0.211	0.309	12:08:15 PM	9/22/2011 12:08	0.337
12840	0.109	0.115	0.126	0.176	12:09:15 PM	9/22/2011 12:09	0.189
12900	0.112	0.121	0.143	0.227	12:10:15 PM	9/22/2011 12:10	0.247
12960	0.199	0.215	0.262	0.502	12:11:15 PM	9/22/2011 12:11	0.553
13020	0.192	0.212	0.256	0.414	12:12:15 PM	9/22/2011 12:12	0.449
13080	0.162	0.176	0.208	0.344	12:13:15 PM	9/22/2011 12:13	0.375
13140	0.167	0.181	0.214	0.373	12:14:15 PM	9/22/2011 12:14	0.402
13200	0.135	0.146	0.168	0.268	12:15:15 PM	9/22/2011 12:15	0.289
13260	0.147	0.158	0.183	0.295	12:16:15 PM	9/22/2011 12:16	0.319
13320	0.072	0.077	0.087	0.124	12:17:15 PM	9/22/2011 12:17	0.136
13380	0.082	0.088	0.097	0.137	12:18:15 PM	9/22/2011 12:18	0.147
13440	0.106	0.111	0.122	0.166	12:19:15 PM	9/22/2011 12:19	0.177
13500	0.155	0.166	0.194	0.332	12:20:15 PM	9/22/2011 12:20	0.367
13560	0.163	0.173	0.195	0.302	12:21:15 PM	9/22/2011 12:21	0.328
13620	0.108	0.114	0.13	0.198	12:22:15 PM	9/22/2011 12:22	0.22
13680	0.108	0.113	0.126	0.191	12:23:15 PM	9/22/2011 12:23	0.21
13740	0.158	0.165	0.185	0.302	12:24:15 PM	9/22/2011 12:24	0.335
13800	0.121	0.129	0.15	0.262	12:25:15 PM	9/22/2011 12:25	0.297
13860	0.114	0.121	0.139	0.229	12:26:15 PM	9/22/2011 12:26	0.258
13920	0.076	0.082	0.095	0.156	12:27:15 PM	9/22/2011 12:27	0.17
13980	0.11	0.119	0.138	0.232	12:28:15 PM	9/22/2011 12:28	0.253
14040	0.086	0.091	0.106	0.175	12:29:15 PM	9/22/2011 12:29	0.19
14100	0.095	0.103	0.121	0.212	12:30:15 PM	9/22/2011 12:30	0.237
14160	0.056	0.06	0.068	0.109	12:31:15 PM	9/22/2011 12:31	0.115
14220	0.051	0.054	0.06	0.083	12:32:15 PM	9/22/2011 12:32	0.088
14280	0.064	0.068	0.075	0.108	12:33:15 PM	9/22/2011 12:33	0.115
14340	0.047	0.05	0.054	0.081	12:34:15 PM	9/22/2011 12:34	0.087
14400	0.086	0.093	0.108	0.164	12:35:15 PM	9/22/2011 12:35	0.178
14460	0.128	0.141	0.166	0.253	12:36:15 PM	9/22/2011 12:36	0.272
14520	0.09	0.097	0.114	0.172	12:37:15 PM	9/22/2011 12:37	0.184
14580	0.089	0.097	0.113	0.17	12:38:15 PM	9/22/2011 12:38	0.184
14640	0.073	0.079	0.088	0.121	12:39:15 PM	9/22/2011 12:39	0.125
14700	0.073	0.078	0.089	0.124	12:40:15 PM	9/22/2011 12:40	0.129
14760	0.053	0.057	0.062	0.084	12:41:15 PM	9/22/2011 12:41	0.09
14820	0.055	0.059	0.066	0.084	12:42:15 PM	9/22/2011 12:42	0.087
14880	0.103	0.108	0.116	0.141	12:43:15 PM	9/22/2011 12:43	0.147
14940	0.063	0.067	0.074	0.099	12:44:15 PM	9/22/2011 12:44	0.104
15000	0.127	0.138	0.161	0.238	12:45:15 PM	9/22/2011 12:45	0.253
15060	0.123	0.133	0.153	0.216	12:46:15 PM	9/22/2011 12:46	0.227
15120	0.111	0.117	0.127	0.155	12:47:15 PM	9/22/2011 12:47	0.161
15180	0.123	0.13	0.137	0.157	12:48:15 PM	9/22/2011 12:48	0.16
15240	0.1	0.105	0.11	0.121	12:49:15 PM	9/22/2011 12:49	0.125
15300	0.092	0.096	0.099	0.108	12:50:15 PM	9/22/2011 12:50	0.11
15360	0.071	0.074	0.077	0.083	12:51:15 PM	9/22/2011 12:51	0.084
15420	0.075	0.079	0.084	0.101	12:52:15 PM	9/22/2011 12:52	0.103
15480	0.142	0.148	0.155	0.182	12:53:15 PM	9/22/2011 12:53	0.187
15540	0.132	0.139	0.149	0.179	12:54:15 PM	9/22/2011 12:54	0.184
15600	0.099	0.104	0.113	0.139	12:55:15 PM	9/22/2011 12:55	0.144
15660	0.089	0.093	0.098	0.115	12:56:15 PM	9/22/2011 12:56	0.123

15720	0.115	0.12	0.126	0.162	12:57:15 PM	9/22/2011 12:57	0.174
15780	0.094	0.099	0.104	0.129	12:58:15 PM	9/22/2011 12:58	0.132
15840	0.081	0.085	0.091	0.117	12:59:15 PM	9/22/2011 12:59	0.124
15900	0.067	0.072	0.08	0.127	1:00:15 PM	9/22/2011 13:00	0.14
15960	0.055	0.059	0.066	0.101	1:01:15 PM	9/22/2011 13:01	0.11
16020	0.078	0.084	0.09	0.106	1:02:15 PM	9/22/2011 13:02	0.11
16080	0.089	0.096	0.102	0.124	1:03:15 PM	9/22/2011 13:03	0.127
16140	0.097	0.102	0.109	0.147	1:04:15 PM	9/22/2011 13:04	0.157
16200	0.071	0.074	0.08	0.102	1:05:15 PM	9/22/2011 13:05	0.107
16260	0.097	0.101	0.108	0.147	1:06:15 PM	9/22/2011 13:06	0.162
16320	0.075	0.081	0.089	0.126	1:07:15 PM	9/22/2011 13:07	0.135
16380	0.06	0.063	0.068	0.095	1:08:15 PM	9/22/2011 13:08	0.104
16440	0.045	0.048	0.052	0.067	1:09:15 PM	9/22/2011 13:09	0.072
16500	0.038	0.04	0.043	0.059	1:10:15 PM	9/22/2011 13:10	0.061
16560	0.354	0.382	0.468	0.87	1:11:15 PM	9/22/2011 13:11	0.958
16620	0.972	1.07	1.37	2.65	1:12:15 PM	9/22/2011 13:12	2.89
16680	0.516	0.556	0.688	1.29	1:13:15 PM	9/22/2011 13:13	1.4
16740	0.231	0.249	0.303	0.554	1:14:15 PM	9/22/2011 13:14	0.603
16800	0.12	0.13	0.152	0.242	1:15:15 PM	9/22/2011 13:15	0.26
16860	0.069	0.075	0.084	0.122	1:16:15 PM	9/22/2011 13:16	0.132
16920	0.119	0.128	0.153	0.262	1:17:15 PM	9/22/2011 13:17	0.285
16980	0.214	0.233	0.286	0.513	1:18:15 PM	9/22/2011 13:18	0.553
17040	0.571	0.626	0.788	1.47	1:19:15 PM	9/22/2011 13:19	1.61
17100	0.58	0.637	0.803	1.51	1:20:15 PM	9/22/2011 13:20	1.65
17160	0.601	0.662	0.842	1.56	1:21:15 PM	9/22/2011 13:21	1.69
17220	0.251	0.275	0.344	0.637	1:22:15 PM	9/22/2011 13:22	0.69
17280	0.154	0.168	0.204	0.348	1:23:15 PM	9/22/2011 13:23	0.38
17340	0.262	0.285	0.352	0.64	1:24:15 PM	9/22/2011 13:24	0.69
17400	0.664	0.73	0.928	1.75	1:25:15 PM	9/22/2011 13:25	1.9
17460	0.218	0.24	0.297	0.516	1:26:15 PM	9/22/2011 13:26	0.557
17520	0.195	0.213	0.26	0.455	1:27:15 PM	9/22/2011 13:27	0.492
17580	0.556	0.606	0.757	1.43	1:28:15 PM	9/22/2011 13:28	1.57
17640	0.204	0.225	0.275	0.483	1:29:15 PM	9/22/2011 13:29	0.522
17700	0.175	0.194	0.238	0.403	1:30:15 PM	9/22/2011 13:30	0.432
17760	0.103	0.112	0.132	0.198	1:31:15 PM	9/22/2011 13:31	0.207
17820	0.07	0.076	0.086	0.12	1:32:15 PM	9/22/2011 13:32	0.127
17880	0.116	0.126	0.146	0.225	1:33:15 PM	9/22/2011 13:33	0.239
17940	0.135	0.147	0.174	0.282	1:34:15 PM	9/22/2011 13:34	0.308
18000	0.082	0.089	0.104	0.166	1:35:15 PM	9/22/2011 13:35	0.176
18060	0.078	0.085	0.1	0.158	1:36:15 PM	9/22/2011 13:36	0.17
18120	0.081	0.087	0.099	0.143	1:37:15 PM	9/22/2011 13:37	0.15
18180	0.1	0.109	0.127	0.197	1:38:15 PM	9/22/2011 13:38	0.209
18240	0.132	0.141	0.163	0.257	1:39:15 PM	9/22/2011 13:39	0.276
18300	0.483	0.49	0.506	0.645	1:40:15 PM	9/22/2011 13:40	0.709
18360	0.069	0.074	0.078	0.087	1:41:15 PM	9/22/2011 13:41	0.091
18420	0.069	0.075	0.082	0.109	1:42:15 PM	9/22/2011 13:42	0.115
18480	0.102	0.111	0.122	0.16	1:43:15 PM	9/22/2011 13:43	0.172
18540	0.206	0.225	0.261	0.413	1:44:15 PM	9/22/2011 13:44	0.453
18600	0.204	0.222	0.269	0.464	1:45:15 PM	9/22/2011 13:45	0.52
18660	0.186	0.204	0.249	0.413	1:46:15 PM	9/22/2011 13:46	0.452
18720	0.141	0.156	0.182	0.27	1:47:15 PM	9/22/2011 13:47	0.286
18780	0.086	0.093	0.099	0.118	1:48:15 PM	9/22/2011 13:48	0.123
18840	0.095	0.103	0.112	0.142	1:49:15 PM	9/22/2011 13:49	0.147
18900	0.094	0.101	0.113	0.154	1:50:15 PM	9/22/2011 13:50	0.161
18960	0.111	0.12	0.138	0.195	1:51:15 PM	9/22/2011 13:51	0.206
19020	0.12	0.129	0.149	0.212	1:52:15 PM	9/22/2011 13:52	0.223
19080	0.098	0.104	0.116	0.157	1:53:15 PM	9/22/2011 13:53	0.164
19140	0.126	0.136	0.153	0.216	1:54:15 PM	9/22/2011 13:54	0.226
19200	0.115	0.125	0.148	0.224	1:55:15 PM	9/22/2011 13:55	0.238
19260	0.16	0.174	0.208	0.324	1:56:15 PM	9/22/2011 13:56	0.344
19320	0.11	0.119	0.138	0.204	1:57:15 PM	9/22/2011 13:57	0.218
19380	0.065	0.07	0.08	0.118	1:58:15 PM	9/22/2011 13:58	0.126
19440	0.063	0.068	0.077	0.11	1:59:15 PM	9/22/2011 13:59	0.117
19500	0.063	0.067	0.076	0.1	2:00:15 PM	9/22/2011 14:00	0.105
19560	0.063	0.067	0.075	0.104	2:01:15 PM	9/22/2011 14:01	0.114
19620	0.093	0.101	0.118	0.178	2:02:15 PM	9/22/2011 14:02	0.192
19680	0.067	0.072	0.082	0.119	2:03:15 PM	9/22/2011 14:03	0.127
19740	0.04	0.042	0.046	0.055	2:04:15 PM	9/22/2011 14:04	0.056
19800	0.064	0.068	0.077	0.108	2:05:15 PM	9/22/2011 14:05	0.115
19860	0.044	0.047	0.052	0.068	2:06:15 PM	9/22/2011 14:06	0.074
19920	0.025	0.026	0.028	0.035	2:07:15 PM	9/22/2011 14:07	0.035
19980	0.062	0.066	0.075	0.113	2:08:15 PM	9/22/2011 14:08	0.13
20040	0.095	0.104	0.124	0.192	2:09:15 PM	9/22/2011 14:09	0.201
20100	0.179	0.197	0.244	0.397	2:10:15 PM	9/22/2011 14:10	0.419
20160	0.164	0.18	0.22	0.361	2:11:15 PM	9/22/2011 14:11	0.388
20220	0.144	0.157	0.19	0.309	2:12:15 PM	9/22/2011 14:12	0.337
20280	0.138	0.15	0.181	0.293	2:13:15 PM	9/22/2011 14:13	0.313
20340	0.136	0.147	0.168	0.229	2:14:15 PM	9/22/2011 14:14	0.242
20400	0.118	0.128	0.149	0.209	2:15:15 PM	9/22/2011 14:15	0.223
20460	0.108	0.118	0.14	0.214	2:16:15 PM	9/22/2011 14:16	0.228
20520	0.074	0.08	0.092	0.134	2:17:15 PM	9/22/2011 14:17	0.143
20580	0.08	0.087	0.101	0.145	2:18:15 PM	9/22/2011 14:18	0.156
20640	0.031	0.033	0.036	0.046	2:19:15 PM	9/22/2011 14:19	0.048
20700	0.041	0.043	0.048	0.058	2:20:15 PM	9/22/2011 14:20	0.059
20760	0.043	0.046	0.052	0.063	2:21:15 PM	9/22/2011 14:21	0.064
20820	0.024	0.025	0.026	0.03	2:22:15 PM	9/22/2011 14:22	0.03
20880	0.022	0.022	0.023	0.025	2:23:15 PM	9/22/2011 14:23	0.025

20940	0.026	0.027	0.028	0.033	2:24:15 PM	9/22/2011 14:24	0.035
21000	0.028	0.028	0.028	0.03	2:25:15 PM	9/22/2011 14:25	0.031
21060	0.042	0.044	0.046	0.059	2:26:15 PM	9/22/2011 14:26	0.062
21120	0.029	0.03	0.031	0.039	2:27:15 PM	9/22/2011 14:27	0.043
21180	0.025	0.026	0.027	0.031	2:28:15 PM	9/22/2011 14:28	0.032
21240	0.027	0.028	0.03	0.042	2:29:15 PM	9/22/2011 14:29	0.047
21300	0.022	0.022	0.024	0.028	2:30:15 PM	9/22/2011 14:30	0.028
21360	0.021	0.021	0.022	0.026	2:31:15 PM	9/22/2011 14:31	0.027
21420	0.021	0.022	0.022	0.025	2:32:15 PM	9/22/2011 14:32	0.026
21480	0.022	0.023	0.024	0.028	2:33:15 PM	9/22/2011 14:33	0.029
21540	0.021	0.021	0.022	0.025	2:34:15 PM	9/22/2011 14:34	0.026
21600	0.021	0.021	0.022	0.025	2:35:15 PM	9/22/2011 14:35	0.026
21660	0.026	0.027	0.028	0.04	2:36:15 PM	9/22/2011 14:36	0.045
21720	0.029	0.03	0.032	0.038	2:37:15 PM	9/22/2011 14:37	0.04
21780	0.03	0.031	0.033	0.04	2:38:15 PM	9/22/2011 14:38	0.043
21840	0.026	0.027	0.028	0.034	2:39:15 PM	9/22/2011 14:39	0.036
21900	0.024	0.025	0.026	0.028	2:40:15 PM	9/22/2011 14:40	0.03
21960	0.06	0.065	0.073	0.098	2:41:15 PM	9/22/2011 14:41	0.104
22020	0.05	0.054	0.062	0.089	2:42:15 PM	9/22/2011 14:42	0.093
22080	0.076	0.082	0.097	0.147	2:43:15 PM	9/22/2011 14:43	0.157
22140	0.061	0.066	0.075	0.111	2:44:15 PM	9/22/2011 14:44	0.116
22200	0.041	0.043	0.047	0.061	2:45:15 PM	9/22/2011 14:45	0.064
22260	0.063	0.068	0.077	0.105	2:46:15 PM	9/22/2011 14:46	0.11
22320	0.075	0.081	0.092	0.129	2:47:15 PM	9/22/2011 14:47	0.135
22380	0.069	0.074	0.084	0.118	2:48:15 PM	9/22/2011 14:48	0.126
22440	0.095	0.103	0.119	0.179	2:49:15 PM	9/22/2011 14:49	0.19
22500	0.086	0.092	0.105	0.154	2:50:15 PM	9/22/2011 14:50	0.163
22560	0.08	0.086	0.099	0.144	2:51:15 PM	9/22/2011 14:51	0.151
22620	0.069	0.074	0.083	0.116	2:52:15 PM	9/22/2011 14:52	0.125
22680	0.068	0.073	0.081	0.116	2:53:15 PM	9/22/2011 14:53	0.122
22740	0.07	0.074	0.082	0.112	2:54:15 PM	9/22/2011 14:54	0.119
22800	0.045	0.048	0.051	0.061	2:55:15 PM	9/22/2011 14:55	0.065
22860	0.029	0.03	0.031	0.035	2:56:15 PM	9/22/2011 14:56	0.037
22920	0.038	0.04	0.041	0.046	2:57:15 PM	9/22/2011 14:57	0.047
22980	0.063	0.067	0.075	0.106	2:58:15 PM	9/22/2011 14:58	0.113
23040	0.085	0.091	0.107	0.171	2:59:15 PM	9/22/2011 14:59	0.185
23100	0.088	0.094	0.11	0.177	3:00:15 PM	9/22/2011 15:00	0.191
23160	0.083	0.089	0.103	0.156	3:01:15 PM	9/22/2011 15:01	0.169
23220	0.092	0.1	0.116	0.174	3:02:15 PM	9/22/2011 15:02	0.187
23280	0.089	0.096	0.112	0.172	3:03:15 PM	9/22/2011 15:03	0.185
23340	0.06	0.064	0.072	0.102	3:04:15 PM	9/22/2011 15:04	0.105
23400	0.036	0.038	0.042	0.055	3:05:15 PM	9/22/2011 15:05	0.058
23460	0.028	0.029	0.031	0.038	3:06:15 PM	9/22/2011 15:06	0.038
23520	0.05	0.054	0.06	0.083	3:07:15 PM	9/22/2011 15:07	0.086
23580	0.049	0.053	0.058	0.075	3:08:15 PM	9/22/2011 15:08	0.08
23640	0.106	0.114	0.135	0.217	3:09:15 PM	9/22/2011 15:09	0.233
23700	0.162	0.177	0.215	0.348	3:10:15 PM	9/22/2011 15:10	0.371
23760	0.122	0.133	0.157	0.238	3:11:15 PM	9/22/2011 15:11	0.256
23820	0.141	0.152	0.176	0.263	3:12:15 PM	9/22/2011 15:12	0.282
23880	0.084	0.09	0.102	0.147	3:13:15 PM	9/22/2011 15:13	0.154
23940	0.078	0.083	0.094	0.13	3:14:15 PM	9/22/2011 15:14	0.137
24000	0.071	0.075	0.083	0.107	3:15:15 PM	9/22/2011 15:15	0.114
24060	0.053	0.056	0.06	0.077	3:16:15 PM	9/22/2011 15:16	0.08
24120	0.078	0.082	0.089	0.111	3:17:15 PM	9/22/2011 15:17	0.115
24180	0.07	0.075	0.082	0.112	3:18:15 PM	9/22/2011 15:18	0.12
24240	0.027	0.027	0.028	0.031	3:19:15 PM	9/22/2011 15:19	0.032
24300	0.03	0.031	0.031	0.034	3:20:15 PM	9/22/2011 15:20	0.035
24360	0.026	0.027	0.027	0.029	3:21:15 PM	9/22/2011 15:21	0.029
24420	0.037	0.039	0.041	0.046	3:22:15 PM	9/22/2011 15:22	0.047
24480	0.038	0.04	0.042	0.049	3:23:15 PM	9/22/2011 15:23	0.049
24540	0.028	0.029	0.029	0.032	3:24:15 PM	9/22/2011 15:24	0.032
24600	0.029	0.029	0.03	0.032	3:25:15 PM	9/22/2011 15:25	0.033
24660	0.033	0.035	0.036	0.039	3:26:15 PM	9/22/2011 15:26	0.039
24720	0.024	0.024	0.025	0.026	3:27:15 PM	9/22/2011 15:27	0.026
24780	0.029	0.03	0.031	0.035	3:28:15 PM	9/22/2011 15:28	0.036
24840	0.025	0.026	0.026	0.03	3:29:15 PM	9/22/2011 15:29	0.03
24900	0.023	0.023	0.024	0.025	3:30:15 PM	9/22/2011 15:30	0.026
24960	0.04	0.042	0.045	0.056	3:31:15 PM	9/22/2011 15:31	0.059
25020	0.052	0.055	0.06	0.078	3:32:15 PM	9/22/2011 15:32	0.082
25080	0.068	0.073	0.08	0.109	3:33:15 PM	9/22/2011 15:33	0.116
25140	0.059	0.062	0.068	0.087	3:34:15 PM	9/22/2011 15:34	0.094
25200	0.062	0.066	0.072	0.092	3:35:15 PM	9/22/2011 15:35	0.099
25260	0.044	0.046	0.049	0.059	3:36:15 PM	9/22/2011 15:36	0.061
25320	0.06	0.064	0.071	0.095	3:37:15 PM	9/22/2011 15:37	0.1
25380	0.049	0.051	0.056	0.07	3:38:15 PM	9/22/2011 15:38	0.073
25440	0.054	0.057	0.061	0.081	3:39:15 PM	9/22/2011 15:39	0.088
25500	0.057	0.061	0.067	0.09	3:40:15 PM	9/22/2011 15:40	0.093
25560	0.081	0.086	0.098	0.15	3:41:15 PM	9/22/2011 15:41	0.167
25620	0.075	0.079	0.091	0.135	3:42:15 PM	9/22/2011 15:42	0.145
25680	0.108	0.116	0.132	0.2	3:43:15 PM	9/22/2011 15:43	0.218
25740	0.119	0.127	0.149	0.227	3:44:15 PM	9/22/2011 15:44	0.245
25800	0.058	0.062	0.068	0.092	3:45:15 PM	9/22/2011 15:45	0.097
25860	0.107	0.115	0.138	0.223	3:46:15 PM	9/22/2011 15:46	0.237
25920	0.098	0.105	0.125	0.206	3:47:15 PM	9/22/2011 15:47	0.224
25980	0.1	0.107	0.124	0.196	3:48:15 PM	9/22/2011 15:48	0.21
26040	0.097	0.105	0.121	0.181	3:49:15 PM	9/22/2011 15:49	0.191
26100	0.071	0.076	0.086	0.12	3:50:15 PM	9/22/2011 15:50	0.123

26160	0.052	0.055	0.06	0.075	3:51:15 PM	9/22/2011 15:51	0.077
26220	0.071	0.075	0.082	0.106	3:52:15 PM	9/22/2011 15:52	0.111
26280	0.093	0.099	0.111	0.155	3:53:15 PM	9/22/2011 15:53	0.167
26340	0.089	0.093	0.098	0.114	3:54:15 PM	9/22/2011 15:54	0.117
26400	0.06	0.064	0.071	0.095	3:55:15 PM	9/22/2011 15:55	0.1
26460	0.048	0.051	0.055	0.068	3:56:15 PM	9/22/2011 15:56	0.071
26520	0.054	0.057	0.062	0.075	3:57:15 PM	9/22/2011 15:57	0.079
26580	0.057	0.06	0.066	0.085	3:58:15 PM	9/22/2011 15:58	0.089
26640	0.04	0.042	0.045	0.056	3:59:15 PM	9/22/2011 15:59	0.061
26700	0.036	0.037	0.038	0.044	4:00:15 PM	9/22/2011 16:00	0.044
26760	0.096	0.102	0.113	0.161	4:01:15 PM	9/22/2011 16:01	0.174
26820	0.092	0.098	0.109	0.152	4:02:15 PM	9/22/2011 16:02	0.166
26880	0.098	0.104	0.119	0.183	4:03:15 PM	9/22/2011 16:03	0.201
26940	0.148	0.154	0.167	0.222	4:04:15 PM	9/22/2011 16:04	0.239
27000	0.126	0.131	0.145	0.21	4:05:15 PM	9/22/2011 16:05	0.227
27060	0.119	0.128	0.147	0.23	4:06:15 PM	9/22/2011 16:06	0.259
27120	0.127	0.133	0.148	0.205	4:07:15 PM	9/22/2011 16:07	0.224
27180	0.056	0.059	0.066	0.095	4:08:15 PM	9/22/2011 16:08	0.108
27240	0.084	0.089	0.099	0.148	4:09:15 PM	9/22/2011 16:09	0.163
27300	0.061	0.065	0.073	0.111	4:10:15 PM	9/22/2011 16:10	0.123
27360	0.065	0.069	0.077	0.117	4:11:15 PM	9/22/2011 16:11	0.134
27420	0.121	0.129	0.149	0.241	4:12:15 PM	9/22/2011 16:12	0.272
27480	0.068	0.073	0.082	0.12	4:13:15 PM	9/22/2011 16:13	0.13
27540	0.072	0.077	0.086	0.119	4:14:15 PM	9/22/2011 16:14	0.127
27600	0.041	0.043	0.046	0.058	4:15:15 PM	9/22/2011 16:15	0.062
27660	0.068	0.072	0.078	0.104	4:16:15 PM	9/22/2011 16:16	0.113
27720	0.052	0.055	0.059	0.077	4:17:15 PM	9/22/2011 16:17	0.081
27780	0.053	0.056	0.061	0.08	4:18:15 PM	9/22/2011 16:18	0.083
27840	0.069	0.073	0.081	0.108	4:19:15 PM	9/22/2011 16:19	0.113
27900	0.076	0.079	0.084	0.112	4:20:15 PM	9/22/2011 16:20	0.122
27960	0.073	0.077	0.085	0.121	4:21:15 PM	9/22/2011 16:21	0.13
28020	0.085	0.09	0.102	0.149	4:22:15 PM	9/22/2011 16:22	0.159
28080	0.054	0.057	0.063	0.087	4:23:15 PM	9/22/2011 16:23	0.093
28140	0.045	0.047	0.051	0.066	4:24:15 PM	9/22/2011 16:24	0.071
28200	0.025	0.025	0.027	0.03	4:25:15 PM	9/22/2011 16:25	0.031
28260	0.055	0.055	0.057	0.067	4:26:15 PM	9/22/2011 16:26	0.071
28320	0.031	0.032	0.034	0.041	4:27:15 PM	9/22/2011 16:27	0.044
28380	0.031	0.031	0.033	0.039	4:28:15 PM	9/22/2011 16:28	0.042
28440	0.033	0.034	0.036	0.041	4:29:15 PM	9/22/2011 16:29	0.042
28500	0.028	0.029	0.03	0.033	4:30:15 PM	9/22/2011 16:30	0.034
28560	0.025	0.025	0.026	0.027	4:31:15 PM	9/22/2011 16:31	0.028
28620	0.027	0.027	0.028	0.032	4:32:15 PM	9/22/2011 16:32	0.033
28680	0.026	0.026	0.027	0.03	4:33:15 PM	9/22/2011 16:33	0.033
28740	0.046	0.049	0.055	0.068	4:34:15 PM	9/22/2011 16:34	0.07
28800	0.07	0.077	0.088	0.113	4:35:15 PM	9/22/2011 16:35	0.12
28860	0.051	0.054	0.058	0.072	4:36:15 PM	9/22/2011 16:36	0.076
28920	0.031	0.032	0.033	0.037	4:37:15 PM	9/22/2011 16:37	0.037
28980	0.044	0.045	0.048	0.06	4:38:15 PM	9/22/2011 16:38	0.066
29040	0.043	0.045	0.047	0.056	4:39:15 PM	9/22/2011 16:39	0.058
29100	0.048	0.051	0.056	0.076	4:40:15 PM	9/22/2011 16:40	0.078
29160	0.044	0.046	0.05	0.061	4:41:15 PM	9/22/2011 16:41	0.063
29220	0.064	0.068	0.074	0.096	4:42:15 PM	9/22/2011 16:42	0.102
29280	0.066	0.07	0.078	0.112	4:43:15 PM	9/22/2011 16:43	0.119
29340	0.079	0.084	0.095	0.133	4:44:15 PM	9/22/2011 16:44	0.143
29400	0.03	0.032	0.034	0.042	4:45:15 PM	9/22/2011 16:45	0.043
29460	0.03	0.032	0.034	0.039	4:46:15 PM	9/22/2011 16:46	0.04
29520	0.037	0.038	0.041	0.05	4:47:15 PM	9/22/2011 16:47	0.054
29580	0.02	0.02	0.021	0.023	4:48:15 PM	9/22/2011 16:48	0.023
29640	0.023	0.023	0.024	0.031	4:49:15 PM	9/22/2011 16:49	0.033
29700	0.024	0.025	0.027	0.033	4:50:15 PM	9/22/2011 16:50	0.035
29760	0.018	0.018	0.018	0.02	4:51:15 PM	9/22/2011 16:51	0.02
29820	0.032	0.033	0.036	0.048	4:52:15 PM	9/22/2011 16:52	0.05
29880	0.033	0.034	0.037	0.045	4:53:15 PM	9/22/2011 16:53	0.048
29940	0.023	0.023	0.024	0.03	4:54:15 PM	9/22/2011 16:54	0.031
30000	0.021	0.021	0.022	0.028	4:55:15 PM	9/22/2011 16:55	0.028
30060	0.24	0.241	0.245	0.286	4:56:15 PM	9/22/2011 16:56	0.314
30120	0.018	0.018	0.019	0.021	4:57:15 PM	9/22/2011 16:57	0.021
30180	0.029	0.03	0.032	0.038	4:58:15 PM	9/22/2011 16:58	0.039
30240	0.053	0.055	0.059	0.076	4:59:15 PM	9/22/2011 16:59	0.078
30300	0.054	0.055	0.057	0.064	5:00:15 PM	9/22/2011 17:00	0.066
30360	0.02	0.021	0.021	0.024	5:01:15 PM	9/22/2011 17:01	0.024
30420	0.048	0.049	0.053	0.068	5:02:15 PM	9/22/2011 17:02	0.073
30480	0.025	0.026	0.027	0.032	5:03:15 PM	9/22/2011 17:03	0.032
30540	0.019	0.019	0.02	0.023	5:04:15 PM	9/22/2011 17:04	0.025
30600	0.017	0.018	0.018	0.022	5:05:15 PM	9/22/2011 17:05	0.023
30660	0.058	0.061	0.065	0.083	5:06:15 PM	9/22/2011 17:06	0.086
30720	0.02	0.02	0.021	0.024	5:07:15 PM	9/22/2011 17:07	0.025
30780	0.018	0.019	0.02	0.023	5:08:15 PM	9/22/2011 17:08	0.024
30840	0.048	0.049	0.05	0.056	5:09:15 PM	9/22/2011 17:09	0.06
30900	0.018	0.019	0.02	0.025	5:10:15 PM	9/22/2011 17:10	0.025
30960	0.019	0.019	0.02	0.024	5:11:15 PM	9/22/2011 17:11	0.024
31020	0.033	0.034	0.036	0.041	5:12:15 PM	9/22/2011 17:12	0.042

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_006
Test Start Time	7:28:23
Test Start Date	9/23/2011
Test Length [D:H:M]	0:06:33
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.045
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.364
PM1 TWA [mg/m3]	0.037
PM2.5 Average [mg/m3]	0.046
PM2.5 Minimum [mg/m3]	0.006
PM2.5 Maximum [mg/m3]	0.365
PM2.5 TWA [mg/m3]	0.038
PM4 Average [mg/m3]	0.048
PM4 Minimum [mg/m3]	0.006
PM4 Maximum [mg/m3]	0.368
PM4 TWA [mg/m3]	0.039
PM10 Average [mg/m3]	0.052
PM10 Minimum [mg/m3]	0.006
PM10 Maximum [mg/m3]	0.594
PM10 TWA [mg/m3]	0.043
TOTAL Average [mg/m3]	0.054
TOTAL Minimum [mg/m3]	0.006
TOTAL Maximum [mg/m3]	0.793
TOTAL TWA [mg/m3]	0.044
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	393



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:28:23 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.127	0.128	0.131	0.154	7:29:23 AM	9/23/2011 7:29	0.173		
120	0.331	0.336	0.352	0.594	7:30:23 AM	9/23/2011 7:30	0.793		
180	0.103	0.105	0.106	0.109	7:31:23 AM	9/23/2011 7:31	0.111		
240	0.107	0.109	0.11	0.115	7:32:23 AM	9/23/2011 7:32	0.118		
300	0.127	0.135	0.148	0.177	7:33:23 AM	9/23/2011 7:33	0.18		
360	0.128	0.137	0.151	0.177	7:34:23 AM	9/23/2011 7:34	0.179		
420	0.112	0.117	0.125	0.14	7:35:23 AM	9/23/2011 7:35	0.14		
480	0.113	0.117	0.123	0.134	7:36:23 AM	9/23/2011 7:36	0.135		
540	0.12	0.123	0.126	0.133	7:37:23 AM	9/23/2011 7:37	0.135		
600	0.096	0.097	0.1	0.106	7:38:23 AM	9/23/2011 7:38	0.107		
660	0.09	0.091	0.092	0.094	7:39:23 AM	9/23/2011 7:39	0.094		
720	0.089	0.09	0.091	0.092	7:40:23 AM	9/23/2011 7:40	0.092		
780	0.089	0.09	0.091	0.093	7:41:23 AM	9/23/2011 7:41	0.093		
840	0.088	0.089	0.09	0.091	7:42:23 AM	9/23/2011 7:42	0.091		
900	0.092	0.094	0.097	0.099	7:43:23 AM	9/23/2011 7:43	0.099		
960	0.09	0.092	0.094	0.097	7:44:23 AM	9/23/2011 7:44	0.097		
1020	0.088	0.09	0.091	0.096	7:45:23 AM	9/23/2011 7:45	0.099		
1080	0.087	0.089	0.09	0.093	7:46:23 AM	9/23/2011 7:46	0.095		
1140	0.084	0.085	0.086	0.087	7:47:23 AM	9/23/2011 7:47	0.087		
1200	0.082	0.083	0.083	0.084	7:48:23 AM	9/23/2011 7:48	0.085		
1260	0.079	0.08	0.081	0.083	7:49:23 AM	9/23/2011 7:49	0.083		
1320	0.079	0.08	0.081	0.082	7:50:23 AM	9/23/2011 7:50	0.082		
1380	0.084	0.085	0.085	0.087	7:51:23 AM	9/23/2011 7:51	0.087		
1440	0.077	0.077	0.078	0.079	7:52:23 AM	9/23/2011 7:52	0.079		
1500	0.078	0.079	0.08	0.081	7:53:23 AM	9/23/2011 7:53	0.081		
1560	0.079	0.08	0.08	0.082	7:54:23 AM	9/23/2011 7:54	0.082		
1620	0.074	0.075	0.076	0.077	7:55:23 AM	9/23/2011 7:55	0.077		
1680	0.073	0.074	0.075	0.077	7:56:23 AM	9/23/2011 7:56	0.078		
1740	0.076	0.077	0.077	0.079	7:57:23 AM	9/23/2011 7:57	0.079		
1800	0.074	0.075	0.075	0.076	7:58:23 AM	9/23/2011 7:58	0.077		
1860	0.074	0.075	0.075	0.076	7:59:23 AM	9/23/2011 7:59	0.076		
1920	0.075	0.076	0.076	0.079	8:00:23 AM	9/23/2011 8:00	0.081		
1980	0.075	0.076	0.076	0.077	8:01:23 AM	9/23/2011 8:01	0.078		
2040	0.074	0.075	0.076	0.077	8:02:23 AM	9/23/2011 8:02	0.078		
2100	0.075	0.076	0.077	0.078	8:03:23 AM	9/23/2011 8:03	0.078		
2160	0.075	0.076	0.077	0.078	8:04:23 AM	9/23/2011 8:04	0.078		
2220	0.075	0.076	0.077	0.078	8:05:23 AM	9/23/2011 8:05	0.078		
2280	0.074	0.075	0.075	0.076	8:06:23 AM	9/23/2011 8:06	0.076		
2340	0.075	0.076	0.076	0.077	8:07:23 AM	9/23/2011 8:07	0.077		
2400	0.073	0.074	0.075	0.076	8:08:23 AM	9/23/2011 8:08	0.076		
2460	0.072	0.073	0.074	0.075	8:09:23 AM	9/23/2011 8:09	0.075		
2520	0.074	0.075	0.076	0.077	8:10:23 AM	9/23/2011 8:10	0.077		
2580	0.093	0.096	0.099	0.103	8:11:23 AM	9/23/2011 8:11	0.103		
2640	0.08	0.082	0.084	0.086	8:12:23 AM	9/23/2011 8:12	0.086		
2700	0.083	0.085	0.086	0.09	8:13:23 AM	9/23/2011 8:13	0.091		
2760	0.086	0.087	0.089	0.1	8:14:23 AM	9/23/2011 8:14	0.106		
2820	0.077	0.078	0.079	0.08	8:15:23 AM	9/23/2011 8:15	0.081		
2880	0.079	0.08	0.081	0.084	8:16:23 AM	9/23/2011 8:16	0.085		
2940	0.079	0.08	0.08	0.082	8:17:23 AM	9/23/2011 8:17	0.082		
3000	0.075	0.076	0.077	0.078	8:18:23 AM	9/23/2011 8:18	0.078		

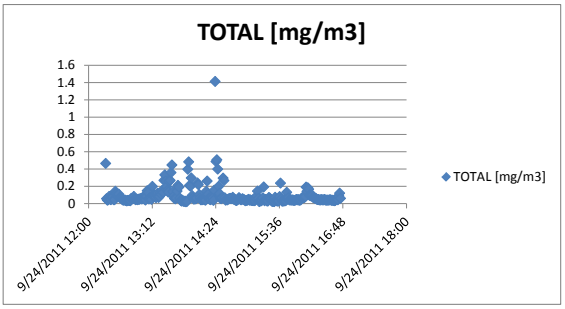
3060	0.076	0.076	0.077	0.078	8:19:23 AM	9/23/2011 8:19	0.078
3120	0.074	0.075	0.076	0.077	8:20:23 AM	9/23/2011 8:20	0.077
3180	0.073	0.074	0.075	0.076	8:21:23 AM	9/23/2011 8:21	0.076
3240	0.073	0.073	0.074	0.075	8:22:23 AM	9/23/2011 8:22	0.076
3300	0.075	0.076	0.076	0.077	8:23:23 AM	9/23/2011 8:23	0.077
3360	0.083	0.084	0.085	0.087	8:24:23 AM	9/23/2011 8:24	0.087
3420	0.083	0.084	0.085	0.088	8:25:23 AM	9/23/2011 8:25	0.088
3480	0.083	0.084	0.086	0.091	8:26:23 AM	9/23/2011 8:26	0.091
3540	0.079	0.08	0.081	0.087	8:27:23 AM	9/23/2011 8:27	0.09
3600	0.076	0.076	0.077	0.081	8:28:23 AM	9/23/2011 8:28	0.082
3660	0.071	0.072	0.072	0.074	8:29:23 AM	9/23/2011 8:29	0.074
3720	0.064	0.064	0.065	0.066	8:30:23 AM	9/23/2011 8:30	0.066
3780	0.062	0.063	0.063	0.065	8:31:23 AM	9/23/2011 8:31	0.065
3840	0.092	0.093	0.095	0.103	8:32:23 AM	9/23/2011 8:32	0.104
3900	0.081	0.082	0.083	0.089	8:33:23 AM	9/23/2011 8:33	0.089
3960	0.063	0.063	0.064	0.065	8:34:23 AM	9/23/2011 8:34	0.066
4020	0.065	0.066	0.066	0.068	8:35:23 AM	9/23/2011 8:35	0.068
4080	0.065	0.065	0.066	0.068	8:36:23 AM	9/23/2011 8:36	0.068
4140	0.058	0.058	0.059	0.06	8:37:23 AM	9/23/2011 8:37	0.06
4200	0.062	0.062	0.063	0.065	8:38:23 AM	9/23/2011 8:38	0.066
4260	0.066	0.066	0.067	0.072	8:39:23 AM	9/23/2011 8:39	0.073
4320	0.078	0.079	0.081	0.086	8:40:23 AM	9/23/2011 8:40	0.086
4380	0.077	0.078	0.08	0.085	8:41:23 AM	9/23/2011 8:41	0.085
4440	0.078	0.079	0.08	0.087	8:42:23 AM	9/23/2011 8:42	0.088
4500	0.076	0.076	0.078	0.082	8:43:23 AM	9/23/2011 8:43	0.084
4560	0.076	0.077	0.079	0.084	8:44:23 AM	9/23/2011 8:44	0.085
4620	0.072	0.073	0.075	0.081	8:45:23 AM	9/23/2011 8:45	0.081
4680	0.075	0.076	0.077	0.083	8:46:23 AM	9/23/2011 8:46	0.083
4740	0.071	0.072	0.073	0.076	8:47:23 AM	9/23/2011 8:47	0.077
4800	0.072	0.073	0.073	0.075	8:48:23 AM	9/23/2011 8:48	0.075
4860	0.09	0.09	0.091	0.099	8:49:23 AM	9/23/2011 8:49	0.104
4920	0.074	0.075	0.075	0.077	8:50:23 AM	9/23/2011 8:50	0.077
4980	0.077	0.077	0.078	0.08	8:51:23 AM	9/23/2011 8:51	0.08
5040	0.075	0.076	0.076	0.077	8:52:23 AM	9/23/2011 8:52	0.078
5100	0.075	0.076	0.076	0.078	8:53:23 AM	9/23/2011 8:53	0.078
5160	0.075	0.076	0.076	0.078	8:54:23 AM	9/23/2011 8:54	0.078
5220	0.074	0.074	0.075	0.076	8:55:23 AM	9/23/2011 8:55	0.076
5280	0.069	0.069	0.07	0.071	8:56:23 AM	9/23/2011 8:56	0.071
5340	0.067	0.068	0.068	0.069	8:57:23 AM	9/23/2011 8:57	0.069
5400	0.068	0.068	0.069	0.07	8:58:23 AM	9/23/2011 8:58	0.07
5460	0.069	0.069	0.07	0.071	8:59:23 AM	9/23/2011 8:59	0.071
5520	0.072	0.073	0.074	0.076	9:00:23 AM	9/23/2011 9:00	0.076
5580	0.074	0.074	0.075	0.077	9:01:23 AM	9/23/2011 9:01	0.077
5640	0.069	0.07	0.071	0.073	9:02:23 AM	9/23/2011 9:02	0.073
5700	0.07	0.071	0.071	0.073	9:03:23 AM	9/23/2011 9:03	0.074
5760	0.07	0.071	0.071	0.073	9:04:23 AM	9/23/2011 9:04	0.073
5820	0.069	0.069	0.07	0.071	9:05:23 AM	9/23/2011 9:05	0.071
5880	0.065	0.065	0.066	0.068	9:06:23 AM	9/23/2011 9:06	0.068
5940	0.064	0.064	0.065	0.066	9:07:23 AM	9/23/2011 9:07	0.066
6000	0.062	0.063	0.063	0.066	9:08:23 AM	9/23/2011 9:08	0.068
6060	0.064	0.065	0.065	0.066	9:09:23 AM	9/23/2011 9:09	0.066
6120	0.062	0.062	0.063	0.065	9:10:23 AM	9/23/2011 9:10	0.065
6180	0.061	0.061	0.062	0.063	9:11:23 AM	9/23/2011 9:11	0.063
6240	0.063	0.063	0.064	0.064	9:12:23 AM	9/23/2011 9:12	0.064
6300	0.063	0.063	0.064	0.064	9:13:23 AM	9/23/2011 9:13	0.064
6360	0.062	0.062	0.063	0.063	9:14:23 AM	9/23/2011 9:14	0.063
6420	0.062	0.062	0.063	0.064	9:15:23 AM	9/23/2011 9:15	0.064
6480	0.062	0.062	0.063	0.064	9:16:23 AM	9/23/2011 9:16	0.064
6540	0.063	0.063	0.064	0.065	9:17:23 AM	9/23/2011 9:17	0.065
6600	0.065	0.065	0.066	0.067	9:18:23 AM	9/23/2011 9:18	0.067
6660	0.062	0.063	0.063	0.064	9:19:23 AM	9/23/2011 9:19	0.065
6720	0.063	0.064	0.065	0.068	9:20:23 AM	9/23/2011 9:20	0.069
6780	0.063	0.064	0.064	0.065	9:21:23 AM	9/23/2011 9:21	0.065
6840	0.064	0.064	0.065	0.067	9:22:23 AM	9/23/2011 9:22	0.067
6900	0.067	0.068	0.069	0.071	9:23:23 AM	9/23/2011 9:23	0.071
6960	0.062	0.063	0.063	0.064	9:24:23 AM	9/23/2011 9:24	0.064
7020	0.061	0.061	0.062	0.063	9:25:23 AM	9/23/2011 9:25	0.064
7080	0.059	0.06	0.061	0.063	9:26:23 AM	9/23/2011 9:26	0.063
7140	0.058	0.059	0.059	0.061	9:27:23 AM	9/23/2011 9:27	0.061
7200	0.058	0.058	0.058	0.059	9:28:23 AM	9/23/2011 9:28	0.06
7260	0.058	0.058	0.059	0.06	9:29:23 AM	9/23/2011 9:29	0.06
7320	0.06	0.06	0.061	0.063	9:30:23 AM	9/23/2011 9:30	0.063
7380	0.062	0.063	0.064	0.067	9:31:23 AM	9/23/2011 9:31	0.069
7440	0.057	0.058	0.058	0.059	9:32:23 AM	9/23/2011 9:32	0.061
7500	0.056	0.056	0.056	0.058	9:33:23 AM	9/23/2011 9:33	0.058
7560	0.056	0.056	0.056	0.057	9:34:23 AM	9/23/2011 9:34	0.057
7620	0.056	0.057	0.057	0.058	9:35:23 AM	9/23/2011 9:35	0.058
7680	0.057	0.058	0.058	0.06	9:36:23 AM	9/23/2011 9:36	0.06
7740	0.06	0.06	0.061	0.063	9:37:23 AM	9/23/2011 9:37	0.063
7800	0.057	0.057	0.057	0.059	9:38:23 AM	9/23/2011 9:38	0.059
7860	0.058	0.058	0.058	0.06	9:39:23 AM	9/23/2011 9:39	0.06
7920	0.058	0.059	0.059	0.061	9:40:23 AM	9/23/2011 9:40	0.062
7980	0.06	0.06	0.061	0.062	9:41:23 AM	9/23/2011 9:41	0.062
8040	0.068	0.069	0.071	0.077	9:42:23 AM	9/23/2011 9:42	0.077
8100	0.081	0.083	0.086	0.096	9:43:23 AM	9/23/2011 9:43	0.098
8160	0.067	0.068	0.07	0.076	9:44:23 AM	9/23/2011 9:44	0.077
8220	0.073	0.074	0.076	0.086	9:45:23 AM	9/23/2011 9:45	0.089

8280	0.067	0.068	0.07	0.077	9:46:23 AM	9/23/2011 9:46	0.08
8340	0.057	0.058	0.058	0.059	9:47:23 AM	9/23/2011 9:47	0.06
8400	0.056	0.056	0.057	0.06	9:48:23 AM	9/23/2011 9:48	0.061
8460	0.055	0.056	0.057	0.059	9:49:23 AM	9/23/2011 9:49	0.059
8520	0.053	0.053	0.054	0.056	9:50:23 AM	9/23/2011 9:50	0.056
8580	0.052	0.053	0.053	0.054	9:51:23 AM	9/23/2011 9:51	0.055
8640	0.051	0.051	0.052	0.053	9:52:23 AM	9/23/2011 9:52	0.053
8700	0.05	0.051	0.051	0.053	9:53:23 AM	9/23/2011 9:53	0.054
8760	0.046	0.046	0.047	0.048	9:54:23 AM	9/23/2011 9:54	0.048
8820	0.046	0.046	0.047	0.049	9:55:23 AM	9/23/2011 9:55	0.049
8880	0.045	0.046	0.047	0.048	9:56:23 AM	9/23/2011 9:56	0.048
8940	0.044	0.045	0.045	0.047	9:57:23 AM	9/23/2011 9:57	0.048
9000	0.045	0.045	0.046	0.048	9:58:23 AM	9/23/2011 9:58	0.048
9060	0.045	0.046	0.047	0.05	9:59:23 AM	9/23/2011 9:59	0.051
9120	0.041	0.041	0.042	0.043	10:00:23 AM	9/23/2011 10:00	0.043
9180	0.04	0.041	0.042	0.043	10:01:23 AM	9/23/2011 10:01	0.044
9240	0.038	0.038	0.038	0.04	10:02:23 AM	9/23/2011 10:02	0.04
9300	0.045	0.045	0.046	0.05	10:03:23 AM	9/23/2011 10:03	0.055
9360	0.043	0.043	0.045	0.048	10:04:23 AM	9/23/2011 10:04	0.049
9420	0.04	0.041	0.042	0.046	10:05:23 AM	9/23/2011 10:05	0.047
9480	0.039	0.039	0.04	0.042	10:06:23 AM	9/23/2011 10:06	0.043
9540	0.04	0.041	0.043	0.046	10:07:23 AM	9/23/2011 10:07	0.046
9600	0.04	0.041	0.042	0.044	10:08:23 AM	9/23/2011 10:08	0.044
9660	0.04	0.04	0.041	0.043	10:09:23 AM	9/23/2011 10:09	0.043
9720	0.039	0.039	0.04	0.041	10:10:23 AM	9/23/2011 10:10	0.042
9780	0.038	0.039	0.041	0.045	10:11:23 AM	9/23/2011 10:11	0.045
9840	0.036	0.037	0.037	0.038	10:12:23 AM	9/23/2011 10:12	0.039
9900	0.036	0.036	0.037	0.038	10:13:23 AM	9/23/2011 10:13	0.04
9960	0.038	0.038	0.039	0.043	10:14:23 AM	9/23/2011 10:14	0.043
10020	0.049	0.051	0.054	0.06	10:15:23 AM	9/23/2011 10:15	0.061
10080	0.037	0.038	0.039	0.041	10:16:23 AM	9/23/2011 10:16	0.041
10140	0.046	0.046	0.047	0.055	10:17:23 AM	9/23/2011 10:17	0.067
10200	0.041	0.042	0.043	0.045	10:18:23 AM	9/23/2011 10:18	0.046
10260	0.037	0.037	0.038	0.039	10:19:23 AM	9/23/2011 10:19	0.04
10320	0.037	0.037	0.038	0.04	10:20:23 AM	9/23/2011 10:20	0.04
10380	0.036	0.037	0.037	0.039	10:21:23 AM	9/23/2011 10:21	0.039
10440	0.037	0.037	0.038	0.039	10:22:23 AM	9/23/2011 10:22	0.04
10500	0.038	0.038	0.039	0.04	10:23:23 AM	9/23/2011 10:23	0.041
10560	0.038	0.039	0.039	0.041	10:24:23 AM	9/23/2011 10:24	0.042
10620	0.038	0.038	0.039	0.04	10:25:23 AM	9/23/2011 10:25	0.041
10680	0.041	0.042	0.043	0.045	10:26:23 AM	9/23/2011 10:26	0.045
10740	0.038	0.039	0.039	0.041	10:27:23 AM	9/23/2011 10:27	0.041
10800	0.039	0.04	0.041	0.043	10:28:23 AM	9/23/2011 10:28	0.043
10860	0.083	0.089	0.105	0.147	10:29:23 AM	9/23/2011 10:29	0.151
10920	0.104	0.116	0.143	0.205	10:30:23 AM	9/23/2011 10:30	0.211
10980	0.364	0.365	0.368	0.401	10:31:23 AM	9/23/2011 10:31	0.432
11040	0.043	0.044	0.045	0.056	10:32:23 AM	9/23/2011 10:32	0.064
11100	0.041	0.041	0.042	0.045	10:33:23 AM	9/23/2011 10:33	0.045
11160	0.042	0.043	0.044	0.049	10:34:23 AM	9/23/2011 10:34	0.05
11220	0.315	0.319	0.332	0.411	10:35:23 AM	9/23/2011 10:35	0.462
11280	0.108	0.112	0.123	0.162	10:36:23 AM	9/23/2011 10:36	0.179
11340	0.085	0.087	0.091	0.11	10:37:23 AM	9/23/2011 10:37	0.117
11400	0.045	0.046	0.047	0.049	10:38:23 AM	9/23/2011 10:38	0.05
11460	0.041	0.041	0.042	0.042	10:39:23 AM	9/23/2011 10:39	0.042
11520	0.04	0.04	0.041	0.042	10:40:23 AM	9/23/2011 10:40	0.042
11580	0.04	0.041	0.042	0.042	10:41:23 AM	9/23/2011 10:41	0.042
11640	0.038	0.039	0.04	0.04	10:42:23 AM	9/23/2011 10:42	0.04
11700	0.038	0.039	0.04	0.04	10:43:23 AM	9/23/2011 10:43	0.04
11760	0.037	0.038	0.038	0.039	10:44:23 AM	9/23/2011 10:44	0.04
11820	0.038	0.039	0.039	0.041	10:45:23 AM	9/23/2011 10:45	0.041
11880	0.039	0.04	0.04	0.042	10:46:23 AM	9/23/2011 10:46	0.042
11940	0.038	0.039	0.04	0.041	10:47:23 AM	9/23/2011 10:47	0.042
12000	0.038	0.039	0.04	0.042	10:48:23 AM	9/23/2011 10:48	0.042
12060	0.035	0.035	0.036	0.037	10:49:23 AM	9/23/2011 10:49	0.037
12120	0.035	0.036	0.036	0.037	10:50:23 AM	9/23/2011 10:50	0.038
12180	0.033	0.034	0.034	0.035	10:51:23 AM	9/23/2011 10:51	0.035
12240	0.033	0.034	0.034	0.035	10:52:23 AM	9/23/2011 10:52	0.035
12300	0.035	0.036	0.036	0.037	10:53:23 AM	9/23/2011 10:53	0.037
12360	0.038	0.038	0.039	0.04	10:54:23 AM	9/23/2011 10:54	0.04
12420	0.037	0.038	0.039	0.04	10:55:23 AM	9/23/2011 10:55	0.04
12480	0.036	0.037	0.038	0.039	10:56:23 AM	9/23/2011 10:56	0.039
12540	0.036	0.037	0.037	0.038	10:57:23 AM	9/23/2011 10:57	0.039
12600	0.037	0.038	0.039	0.043	10:58:23 AM	9/23/2011 10:58	0.045
12660	0.039	0.04	0.041	0.046	10:59:23 AM	9/23/2011 10:59	0.046
12720	0.039	0.039	0.04	0.043	11:00:23 AM	9/23/2011 11:00	0.044
12780	0.037	0.038	0.039	0.041	11:01:23 AM	9/23/2011 11:01	0.041
12840	0.034	0.035	0.036	0.037	11:02:23 AM	9/23/2011 11:02	0.037
12900	0.032	0.033	0.035	0.037	11:03:23 AM	9/23/2011 11:03	0.037
12960	0.032	0.033	0.034	0.035	11:04:23 AM	9/23/2011 11:04	0.035
13020	0.036	0.037	0.038	0.041	11:05:23 AM	9/23/2011 11:05	0.044
13080	0.029	0.03	0.03	0.033	11:06:23 AM	9/23/2011 11:06	0.034
13140	0.028	0.029	0.029	0.03	11:07:23 AM	9/23/2011 11:07	0.03
13200	0.027	0.028	0.028	0.029	11:08:23 AM	9/23/2011 11:08	0.029
13260	0.026	0.027	0.027	0.027	11:09:23 AM	9/23/2011 11:09	0.027
13320	0.026	0.026	0.027	0.028	11:10:23 AM	9/23/2011 11:10	0.028
13380	0.026	0.026	0.027	0.027	11:11:23 AM	9/23/2011 11:11	0.027
13440	0.026	0.026	0.026	0.027	11:12:23 AM	9/23/2011 11:12	0.027

13500	0.026	0.027	0.027	0.027	11:13:23 AM	9/23/2011 11:13	0.028
13560	0.025	0.025	0.026	0.026	11:14:23 AM	9/23/2011 11:14	0.026
13620	0.036	0.036	0.038	0.056	11:15:23 AM	9/23/2011 11:15	0.064
13680	0.027	0.027	0.028	0.031	11:16:23 AM	9/23/2011 11:16	0.031
13740	0.032	0.032	0.034	0.038	11:17:23 AM	9/23/2011 11:17	0.04
13800	0.044	0.046	0.048	0.078	11:18:23 AM	9/23/2011 11:18	0.097
13860	0.034	0.036	0.039	0.042	11:19:23 AM	9/23/2011 11:19	0.043
13920	0.033	0.035	0.038	0.043	11:20:23 AM	9/23/2011 11:20	0.044
13980	0.034	0.037	0.041	0.047	11:21:23 AM	9/23/2011 11:21	0.047
14040	0.03	0.032	0.036	0.041	11:22:23 AM	9/23/2011 11:22	0.041
14100	0.023	0.024	0.026	0.029	11:23:23 AM	9/23/2011 11:23	0.029
14160	0.021	0.022	0.023	0.025	11:24:23 AM	9/23/2011 11:24	0.025
14220	0.021	0.022	0.023	0.024	11:25:23 AM	9/23/2011 11:25	0.024
14280	0.02	0.021	0.022	0.022	11:26:23 AM	9/23/2011 11:26	0.022
14340	0.017	0.018	0.018	0.019	11:27:23 AM	9/23/2011 11:27	0.019
14400	0.016	0.016	0.017	0.018	11:28:23 AM	9/23/2011 11:28	0.018
14460	0.015	0.016	0.016	0.017	11:29:23 AM	9/23/2011 11:29	0.017
14520	0.015	0.015	0.016	0.017	11:30:23 AM	9/23/2011 11:30	0.017
14580	0.015	0.016	0.016	0.018	11:31:23 AM	9/23/2011 11:31	0.018
14640	0.014	0.014	0.015	0.016	11:32:23 AM	9/23/2011 11:32	0.016
14700	0.013	0.014	0.014	0.015	11:33:23 AM	9/23/2011 11:33	0.015
14760	0.013	0.014	0.014	0.014	11:34:23 AM	9/23/2011 11:34	0.015
14820	0.014	0.014	0.015	0.015	11:35:23 AM	9/23/2011 11:35	0.015
14880	0.014	0.014	0.015	0.015	11:36:23 AM	9/23/2011 11:36	0.016
14940	0.014	0.015	0.015	0.015	11:37:23 AM	9/23/2011 11:37	0.015
15000	0.015	0.015	0.015	0.016	11:38:23 AM	9/23/2011 11:38	0.016
15060	0.014	0.015	0.015	0.016	11:39:23 AM	9/23/2011 11:39	0.016
15120	0.015	0.016	0.016	0.017	11:40:23 AM	9/23/2011 11:40	0.017
15180	0.015	0.016	0.016	0.017	11:41:23 AM	9/23/2011 11:41	0.017
15240	0.016	0.016	0.016	0.017	11:42:23 AM	9/23/2011 11:42	0.017
15300	0.017	0.018	0.018	0.019	11:43:23 AM	9/23/2011 11:43	0.019
15360	0.017	0.017	0.018	0.018	11:44:23 AM	9/23/2011 11:44	0.018
15420	0.016	0.016	0.016	0.017	11:45:23 AM	9/23/2011 11:45	0.017
15480	0.016	0.017	0.017	0.017	11:46:23 AM	9/23/2011 11:46	0.017
15540	0.016	0.016	0.016	0.017	11:47:23 AM	9/23/2011 11:47	0.017
15600	0.015	0.015	0.015	0.016	11:48:23 AM	9/23/2011 11:48	0.016
15660	0.014	0.015	0.015	0.015	11:49:23 AM	9/23/2011 11:49	0.015
15720	0.014	0.014	0.015	0.016	11:50:23 AM	9/23/2011 11:50	0.016
15780	0.016	0.016	0.017	0.018	11:51:23 AM	9/23/2011 11:51	0.019
15840	0.018	0.019	0.02	0.022	11:52:23 AM	9/23/2011 11:52	0.022
15900	0.016	0.016	0.017	0.018	11:53:23 AM	9/23/2011 11:53	0.018
15960	0.017	0.017	0.018	0.021	11:54:23 AM	9/23/2011 11:54	0.023
16020	0.03	0.031	0.032	0.034	11:55:23 AM	9/23/2011 11:55	0.034
16080	0.044	0.045	0.046	0.049	11:56:23 AM	9/23/2011 11:56	0.049
16140	0.028	0.03	0.032	0.035	11:57:23 AM	9/23/2011 11:57	0.035
16200	0.017	0.017	0.018	0.019	11:58:23 AM	9/23/2011 11:58	0.019
16260	0.016	0.017	0.018	0.019	11:59:23 AM	9/23/2011 11:59	0.019
16320	0.018	0.02	0.021	0.023	12:00:23 PM	9/23/2011 12:00	0.023
16380	0.019	0.021	0.023	0.024	12:01:23 PM	9/23/2011 12:01	0.024
16440	0.018	0.02	0.021	0.022	12:02:23 PM	9/23/2011 12:02	0.023
16500	0.019	0.021	0.023	0.026	12:03:23 PM	9/23/2011 12:03	0.026
16560	0.022	0.024	0.027	0.029	12:04:23 PM	9/23/2011 12:04	0.03
16620	0.016	0.017	0.019	0.02	12:05:23 PM	9/23/2011 12:05	0.02
16680	0.014	0.015	0.017	0.019	12:06:23 PM	9/23/2011 12:06	0.02
16740	0.013	0.014	0.015	0.017	12:07:23 PM	9/23/2011 12:07	0.018
16800	0.013	0.014	0.015	0.016	12:08:23 PM	9/23/2011 12:08	0.017
16860	0.012	0.013	0.014	0.015	12:09:23 PM	9/23/2011 12:09	0.017
16920	0.012	0.013	0.015	0.017	12:10:23 PM	9/23/2011 12:10	0.018
16980	0.011	0.012	0.013	0.015	12:11:23 PM	9/23/2011 12:11	0.015
17040	0.014	0.015	0.016	0.02	12:12:23 PM	9/23/2011 12:12	0.021
17100	0.012	0.014	0.015	0.017	12:13:23 PM	9/23/2011 12:13	0.018
17160	0.009	0.009	0.01	0.011	12:14:23 PM	9/23/2011 12:14	0.011
17220	0.009	0.01	0.011	0.012	12:15:23 PM	9/23/2011 12:15	0.012
17280	0.011	0.012	0.014	0.015	12:16:23 PM	9/23/2011 12:16	0.015
17340	0.01	0.011	0.011	0.012	12:17:23 PM	9/23/2011 12:17	0.012
17400	0.011	0.011	0.012	0.013	12:18:23 PM	9/23/2011 12:18	0.013
17460	0.009	0.01	0.011	0.011	12:19:23 PM	9/23/2011 12:19	0.011
17520	0.008	0.009	0.009	0.01	12:20:23 PM	9/23/2011 12:20	0.01
17580	0.01	0.01	0.011	0.011	12:21:23 PM	9/23/2011 12:21	0.011
17640	0.011	0.011	0.012	0.013	12:22:23 PM	9/23/2011 12:22	0.013
17700	0.012	0.013	0.014	0.016	12:23:23 PM	9/23/2011 12:23	0.016
17760	0.012	0.013	0.014	0.014	12:24:23 PM	9/23/2011 12:24	0.014
17820	0.011	0.012	0.013	0.013	12:25:23 PM	9/23/2011 12:25	0.013
17880	0.01	0.01	0.01	0.011	12:26:23 PM	9/23/2011 12:26	0.011
17940	0.009	0.01	0.01	0.01	12:27:23 PM	9/23/2011 12:27	0.01
18000	0.011	0.011	0.012	0.013	12:28:23 PM	9/23/2011 12:28	0.013
18060	0.01	0.011	0.011	0.012	12:29:23 PM	9/23/2011 12:29	0.012
18120	0.011	0.012	0.013	0.013	12:30:23 PM	9/23/2011 12:30	0.013
18180	0.011	0.012	0.013	0.015	12:31:23 PM	9/23/2011 12:31	0.015
18240	0.015	0.016	0.017	0.019	12:32:23 PM	9/23/2011 12:32	0.019
18300	0.012	0.013	0.013	0.014	12:33:23 PM	9/23/2011 12:33	0.014
18360	0.01	0.011	0.011	0.012	12:34:23 PM	9/23/2011 12:34	0.012
18420	0.009	0.01	0.01	0.011	12:35:23 PM	9/23/2011 12:35	0.011
18480	0.011	0.012	0.013	0.014	12:36:23 PM	9/23/2011 12:36	0.014
18540	0.03	0.031	0.033	0.034	12:37:23 PM	9/23/2011 12:37	0.034
18600	0.011	0.011	0.012	0.013	12:38:23 PM	9/23/2011 12:38	0.013
18660	0.009	0.01	0.011	0.013	12:39:23 PM	9/23/2011 12:39	0.013

18720	0.012	0.013	0.015	0.016	12:40:23 PM	9/23/2011 12:40	0.016
18780	0.014	0.016	0.019	0.02	12:41:23 PM	9/23/2011 12:41	0.02
18840	0.012	0.013	0.015	0.016	12:42:23 PM	9/23/2011 12:42	0.016
18900	0.01	0.01	0.011	0.012	12:43:23 PM	9/23/2011 12:43	0.012
18960	0.007	0.008	0.009	0.01	12:44:23 PM	9/23/2011 12:44	0.01
19020	0.009	0.01	0.011	0.014	12:45:23 PM	9/23/2011 12:45	0.014
19080	0.008	0.009	0.01	0.012	12:46:23 PM	9/23/2011 12:46	0.012
19140	0.008	0.009	0.009	0.01	12:47:23 PM	9/23/2011 12:47	0.01
19200	0.009	0.01	0.011	0.011	12:48:23 PM	9/23/2011 12:48	0.012
19260	0.01	0.011	0.011	0.012	12:49:23 PM	9/23/2011 12:49	0.013
19320	0.01	0.011	0.011	0.012	12:50:23 PM	9/23/2011 12:50	0.012
19380	0.008	0.009	0.009	0.01	12:51:23 PM	9/23/2011 12:51	0.011
19440	0.007	0.008	0.009	0.009	12:52:23 PM	9/23/2011 12:52	0.01
19500	0.008	0.008	0.009	0.01	12:53:23 PM	9/23/2011 12:53	0.01
19560	0.008	0.008	0.009	0.01	12:54:23 PM	9/23/2011 12:54	0.01
19620	0.006	0.007	0.007	0.008	12:55:23 PM	9/23/2011 12:55	0.008
19680	0.006	0.007	0.007	0.008	12:56:23 PM	9/23/2011 12:56	0.008
19740	0.006	0.007	0.007	0.008	12:57:23 PM	9/23/2011 12:57	0.008
19800	0.007	0.007	0.008	0.008	12:58:23 PM	9/23/2011 12:58	0.008
19860	0.007	0.007	0.008	0.008	12:59:23 PM	9/23/2011 12:59	0.009
19920	0.006	0.006	0.007	0.007	1:00:23 PM	9/23/2011 13:00	0.007
19980	0.007	0.007	0.008	0.011	1:01:23 PM	9/23/2011 13:01	0.012
20040	0.006	0.006	0.006	0.007	1:02:23 PM	9/23/2011 13:02	0.007
20100	0.007	0.007	0.007	0.01	1:03:23 PM	9/23/2011 13:03	0.012
20160	0.006	0.006	0.007	0.007	1:04:23 PM	9/23/2011 13:04	0.007
20220	0.006	0.006	0.006	0.007	1:05:23 PM	9/23/2011 13:05	0.007
20280	0.006	0.006	0.006	0.007	1:06:23 PM	9/23/2011 13:06	0.007
20340	0.006	0.006	0.006	0.006	1:07:23 PM	9/23/2011 13:07	0.006
20400	0.006	0.007	0.007	0.007	1:08:23 PM	9/23/2011 13:08	0.007
20460	0.01	0.011	0.012	0.014	1:09:23 PM	9/23/2011 13:09	0.014
20520	0.046	0.051	0.062	0.105	1:10:23 PM	9/23/2011 13:10	0.12
20580	0.059	0.066	0.081	0.13	1:11:23 PM	9/23/2011 13:11	0.143
20640	0.048	0.055	0.066	0.096	1:12:23 PM	9/23/2011 13:12	0.101
20700	0.039	0.044	0.052	0.069	1:13:23 PM	9/23/2011 13:13	0.071
20760	0.041	0.047	0.055	0.068	1:14:23 PM	9/23/2011 13:14	0.072
20820	0.051	0.057	0.07	0.106	1:15:23 PM	9/23/2011 13:15	0.115
20880	0.059	0.067	0.082	0.116	1:16:23 PM	9/23/2011 13:16	0.122
20940	0.036	0.04	0.046	0.065	1:17:23 PM	9/23/2011 13:17	0.073
21000	0.02	0.022	0.025	0.029	1:18:23 PM	9/23/2011 13:18	0.031
21060	0.027	0.03	0.035	0.047	1:19:23 PM	9/23/2011 13:19	0.05
21120	0.162	0.165	0.172	0.207	1:20:23 PM	9/23/2011 13:20	0.227
21180	0.025	0.028	0.033	0.04	1:21:23 PM	9/23/2011 13:21	0.041
21240	0.025	0.028	0.032	0.036	1:22:23 PM	9/23/2011 13:22	0.037
21300	0.024	0.028	0.031	0.035	1:23:23 PM	9/23/2011 13:23	0.035
21360	0.022	0.025	0.028	0.03	1:24:23 PM	9/23/2011 13:24	0.03
21420	0.02	0.022	0.023	0.026	1:25:23 PM	9/23/2011 13:25	0.026
21480	0.018	0.02	0.022	0.023	1:26:23 PM	9/23/2011 13:26	0.023
21540	0.021	0.023	0.024	0.026	1:27:23 PM	9/23/2011 13:27	0.027
21600	0.02	0.022	0.023	0.024	1:28:23 PM	9/23/2011 13:28	0.024
21660	0.021	0.023	0.024	0.025	1:29:23 PM	9/23/2011 13:29	0.025
21720	0.024	0.025	0.027	0.031	1:30:23 PM	9/23/2011 13:30	0.031
21780	0.024	0.026	0.028	0.033	1:31:23 PM	9/23/2011 13:31	0.035
21840	0.023	0.024	0.026	0.032	1:32:23 PM	9/23/2011 13:32	0.032
21900	0.023	0.024	0.026	0.031	1:33:23 PM	9/23/2011 13:33	0.032
21960	0.029	0.03	0.032	0.034	1:34:23 PM	9/23/2011 13:34	0.035
22020	0.028	0.029	0.03	0.032	1:35:23 PM	9/23/2011 13:35	0.033
22080	0.026	0.028	0.03	0.036	1:36:23 PM	9/23/2011 13:36	0.037
22140	0.028	0.03	0.032	0.039	1:37:23 PM	9/23/2011 13:37	0.039
22200	0.025	0.027	0.029	0.033	1:38:23 PM	9/23/2011 13:38	0.034
22260	0.022	0.024	0.026	0.029	1:39:23 PM	9/23/2011 13:39	0.03
22320	0.017	0.018	0.02	0.022	1:40:23 PM	9/23/2011 13:40	0.023
22380	0.015	0.016	0.018	0.021	1:41:23 PM	9/23/2011 13:41	0.021
22440	0.012	0.012	0.013	0.015	1:42:23 PM	9/23/2011 13:42	0.015
22500	0.013	0.013	0.014	0.016	1:43:23 PM	9/23/2011 13:43	0.016
22560	0.011	0.011	0.012	0.013	1:44:23 PM	9/23/2011 13:44	0.013
22620	0.011	0.011	0.012	0.013	1:45:23 PM	9/23/2011 13:45	0.013
22680	0.012	0.013	0.013	0.015	1:46:23 PM	9/23/2011 13:46	0.015
22740	0.013	0.014	0.015	0.016	1:47:23 PM	9/23/2011 13:47	0.016
22800	0.016	0.017	0.019	0.02	1:48:23 PM	9/23/2011 13:48	0.02
22860	0.018	0.019	0.021	0.022	1:49:23 PM	9/23/2011 13:49	0.022
22920	0.016	0.017	0.018	0.02	1:50:23 PM	9/23/2011 13:50	0.02
22980	0.016	0.017	0.018	0.021	1:51:23 PM	9/23/2011 13:51	0.023
23040	0.015	0.016	0.017	0.019	1:52:23 PM	9/23/2011 13:52	0.019
23100	0.015	0.016	0.017	0.018	1:53:23 PM	9/23/2011 13:53	0.018
23160	0.013	0.014	0.015	0.016	1:54:23 PM	9/23/2011 13:54	0.016
23220	0.012	0.012	0.013	0.013	1:55:23 PM	9/23/2011 13:55	0.013
23280	0.012	0.013	0.013	0.014	1:56:23 PM	9/23/2011 13:56	0.014
23340	0.017	0.019	0.021	0.027	1:57:23 PM	9/23/2011 13:57	0.029
23400	0.014	0.014	0.016	0.019	1:58:23 PM	9/23/2011 13:58	0.019
23460	0.012	0.013	0.013	0.014	1:59:23 PM	9/23/2011 13:59	0.014
23520	0.012	0.012	0.013	0.015	2:00:23 PM	9/23/2011 14:00	0.015
23580	0.023	0.024	0.026	0.042	2:01:23 PM	9/23/2011 14:01	0.057

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_007
Test Start Time	12:18:17
Test Start Date	9/24/2011
Test Length [D:H:M]	0:04:27
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.055
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.463
PM1 TWA [mg/m3]	0.03
PM2.5 Average [mg/m3]	0.057
PM2.5 Minimum [mg/m3]	0.018
PM2.5 Maximum [mg/m3]	0.505
PM2.5 TWA [mg/m3]	0.032
PM4 Average [mg/m3]	0.062
PM4 Minimum [mg/m3]	0.019
PM4 Maximum [mg/m3]	0.632
PM4 TWA [mg/m3]	0.035
PM10 Average [mg/m3]	0.084
PM10 Minimum [mg/m3]	0.021
PM10 Maximum [mg/m3]	1.2
PM10 TWA [mg/m3]	0.046
TOTAL Average [mg/m3]	0.09
TOTAL Minimum [mg/m3]	0.021
TOTAL Maximum [mg/m3]	1.41
TOTAL TWA [mg/m3]	0.05
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	267



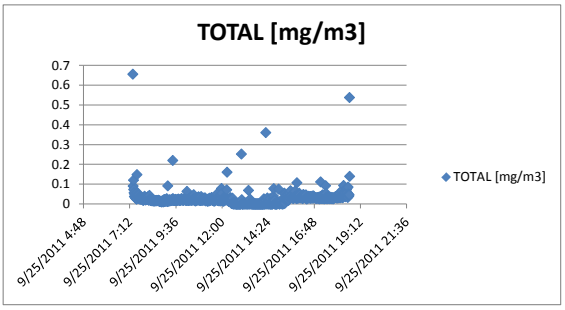
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	12:18:17 PM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.3	0.302	0.31	0.394	12:19:17 PM	9/24/2011 12:19	0.465		
120	0.04	0.041	0.043	0.052	12:20:17 PM	9/24/2011 12:20	0.056		
180	0.032	0.032	0.034	0.037	12:21:17 PM	9/24/2011 12:21	0.038		
240	0.034	0.035	0.036	0.041	12:22:17 PM	9/24/2011 12:22	0.044		
300	0.066	0.067	0.07	0.081	12:23:17 PM	9/24/2011 12:23	0.083		
360	0.048	0.049	0.05	0.054	12:24:17 PM	9/24/2011 12:24	0.055		
420	0.041	0.042	0.043	0.045	12:25:17 PM	9/24/2011 12:25	0.045		
480	0.052	0.054	0.057	0.074	12:26:17 PM	9/24/2011 12:26	0.08		
540	0.049	0.05	0.053	0.067	12:27:17 PM	9/24/2011 12:27	0.075		
600	0.037	0.038	0.039	0.044	12:28:17 PM	9/24/2011 12:28	0.045		
660	0.037	0.038	0.039	0.043	12:29:17 PM	9/24/2011 12:29	0.044		
720	0.08	0.081	0.086	0.119	12:30:17 PM	9/24/2011 12:30	0.142		
780	0.061	0.063	0.071	0.103	12:31:17 PM	9/24/2011 12:31	0.116		
840	0.058	0.06	0.065	0.092	12:32:17 PM	9/24/2011 12:32	0.102		
900	0.049	0.05	0.054	0.071	12:33:17 PM	9/24/2011 12:33	0.077		
960	0.062	0.065	0.071	0.098	12:34:17 PM	9/24/2011 12:34	0.108		
1020	0.047	0.049	0.052	0.067	12:35:17 PM	9/24/2011 12:35	0.071		
1080	0.049	0.051	0.055	0.068	12:36:17 PM	9/24/2011 12:36	0.07		
1140	0.042	0.044	0.046	0.054	12:37:17 PM	9/24/2011 12:37	0.056		
1200	0.036	0.037	0.038	0.043	12:38:17 PM	9/24/2011 12:38	0.044		
1260	0.033	0.034	0.035	0.038	12:39:17 PM	9/24/2011 12:39	0.038		
1320	0.037	0.038	0.039	0.041	12:40:17 PM	9/24/2011 12:40	0.041		
1380	0.036	0.036	0.037	0.039	12:41:17 PM	9/24/2011 12:41	0.041		
1440	0.032	0.032	0.033	0.034	12:42:17 PM	9/24/2011 12:42	0.034		
1500	0.029	0.029	0.03	0.031	12:43:17 PM	9/24/2011 12:43	0.031		
1560	0.031	0.032	0.033	0.036	12:44:17 PM	9/24/2011 12:44	0.036		
1620	0.031	0.032	0.033	0.035	12:45:17 PM	9/24/2011 12:45	0.036		
1680	0.03	0.03	0.031	0.033	12:46:17 PM	9/24/2011 12:46	0.034		
1740	0.028	0.029	0.03	0.032	12:47:17 PM	9/24/2011 12:47	0.033		
1800	0.039	0.04	0.043	0.057	12:48:17 PM	9/24/2011 12:48	0.06		
1860	0.039	0.04	0.042	0.052	12:49:17 PM	9/24/2011 12:49	0.056		
1920	0.042	0.044	0.047	0.057	12:50:17 PM	9/24/2011 12:50	0.06		
1980	0.054	0.058	0.063	0.079	12:51:17 PM	9/24/2011 12:51	0.082		
2040	0.043	0.044	0.048	0.055	12:52:17 PM	9/24/2011 12:52	0.057		
2100	0.037	0.038	0.04	0.044	12:53:17 PM	9/24/2011 12:53	0.045		
2160	0.04	0.041	0.043	0.048	12:54:17 PM	9/24/2011 12:54	0.05		
2220	0.037	0.039	0.04	0.044	12:55:17 PM	9/24/2011 12:55	0.045		
2280	0.042	0.043	0.045	0.05	12:56:17 PM	9/24/2011 12:56	0.05		
2340	0.04	0.041	0.043	0.048	12:57:17 PM	9/24/2011 12:57	0.049		
2400	0.047	0.049	0.051	0.056	12:58:17 PM	9/24/2011 12:58	0.056		
2460	0.049	0.05	0.052	0.057	12:59:17 PM	9/24/2011 12:59	0.057		
2520	0.045	0.046	0.047	0.051	1:00:17 PM	9/24/2011 13:00	0.052		
2580	0.052	0.054	0.057	0.069	1:01:17 PM	9/24/2011 13:01	0.072		
2640	0.049	0.051	0.055	0.065	1:02:17 PM	9/24/2011 13:02	0.067		
2700	0.043	0.044	0.046	0.051	1:03:17 PM	9/24/2011 13:03	0.052		
2760	0.035	0.035	0.037	0.04	1:04:17 PM	9/24/2011 13:04	0.04		
2820	0.059	0.062	0.069	0.084	1:05:17 PM	9/24/2011 13:05	0.086		
2880	0.082	0.09	0.103	0.143	1:06:17 PM	9/24/2011 13:06	0.149		
2940	0.074	0.079	0.091	0.119	1:07:17 PM	9/24/2011 13:07	0.126		
3000	0.042	0.044	0.046	0.052	1:08:17 PM	9/24/2011 13:08	0.053		

3060	0.057	0.058	0.059	0.063	1:09:17 PM	9/24/2011 13:09	0.064
3120	0.048	0.05	0.053	0.064	1:10:17 PM	9/24/2011 13:10	0.069
3180	0.038	0.039	0.041	0.047	1:11:17 PM	9/24/2011 13:11	0.049
3240	0.096	0.104	0.123	0.188	1:12:17 PM	9/24/2011 13:12	0.198
3300	0.052	0.055	0.061	0.082	1:13:17 PM	9/24/2011 13:13	0.088
3360	0.058	0.061	0.068	0.097	1:14:17 PM	9/24/2011 13:14	0.102
3420	0.056	0.06	0.067	0.09	1:15:17 PM	9/24/2011 13:15	0.093
3480	0.044	0.046	0.051	0.066	1:16:17 PM	9/24/2011 13:16	0.068
3540	0.058	0.061	0.068	0.097	1:17:17 PM	9/24/2011 13:17	0.108
3600	0.065	0.068	0.076	0.109	1:18:17 PM	9/24/2011 13:18	0.121
3660	0.052	0.054	0.057	0.068	1:19:17 PM	9/24/2011 13:19	0.071
3720	0.067	0.069	0.071	0.08	1:20:17 PM	9/24/2011 13:20	0.083
3780	0.086	0.09	0.099	0.123	1:21:17 PM	9/24/2011 13:21	0.126
3840	0.082	0.084	0.089	0.107	1:22:17 PM	9/24/2011 13:22	0.109
3900	0.117	0.12	0.126	0.148	1:23:17 PM	9/24/2011 13:23	0.152
3960	0.087	0.092	0.101	0.125	1:24:17 PM	9/24/2011 13:24	0.128
4020	0.15	0.164	0.192	0.261	1:25:17 PM	9/24/2011 13:25	0.269
4080	0.159	0.175	0.213	0.323	1:26:17 PM	9/24/2011 13:26	0.333
4140	0.135	0.147	0.174	0.251	1:27:17 PM	9/24/2011 13:27	0.26
4200	0.099	0.107	0.125	0.19	1:28:17 PM	9/24/2011 13:28	0.199
4260	0.079	0.086	0.1	0.146	1:29:17 PM	9/24/2011 13:29	0.153
4320	0.076	0.082	0.094	0.128	1:30:17 PM	9/24/2011 13:30	0.133
4380	0.113	0.121	0.143	0.239	1:31:17 PM	9/24/2011 13:31	0.257
4440	0.137	0.149	0.175	0.26	1:32:17 PM	9/24/2011 13:32	0.268
4500	0.154	0.165	0.194	0.324	1:33:17 PM	9/24/2011 13:33	0.358
4560	0.197	0.211	0.248	0.409	1:34:17 PM	9/24/2011 13:34	0.446
4620	0.072	0.076	0.086	0.13	1:35:17 PM	9/24/2011 13:35	0.138
4680	0.051	0.053	0.058	0.077	1:36:17 PM	9/24/2011 13:36	0.084
4740	0.044	0.046	0.048	0.057	1:37:17 PM	9/24/2011 13:37	0.059
4800	0.042	0.043	0.045	0.053	1:38:17 PM	9/24/2011 13:38	0.054
4860	0.046	0.048	0.051	0.061	1:39:17 PM	9/24/2011 13:39	0.064
4920	0.069	0.073	0.082	0.128	1:40:17 PM	9/24/2011 13:40	0.145
4980	0.089	0.094	0.107	0.18	1:41:17 PM	9/24/2011 13:41	0.21
5040	0.094	0.098	0.109	0.166	1:42:17 PM	9/24/2011 13:42	0.19
5100	0.044	0.045	0.048	0.059	1:43:17 PM	9/24/2011 13:43	0.063
5160	0.029	0.029	0.031	0.036	1:44:17 PM	9/24/2011 13:44	0.037
5220	0.022	0.023	0.023	0.026	1:45:17 PM	9/24/2011 13:45	0.028
5280	0.029	0.03	0.031	0.038	1:46:17 PM	9/24/2011 13:46	0.039
5340	0.024	0.024	0.024	0.026	1:47:17 PM	9/24/2011 13:47	0.027
5400	0.023	0.023	0.024	0.025	1:48:17 PM	9/24/2011 13:48	0.025
5460	0.025	0.025	0.026	0.027	1:49:17 PM	9/24/2011 13:49	0.028
5520	0.02	0.02	0.02	0.021	1:50:17 PM	9/24/2011 13:50	0.021
5580	0.023	0.024	0.024	0.024	1:51:17 PM	9/24/2011 13:51	0.025
5640	0.215	0.219	0.234	0.334	1:52:17 PM	9/24/2011 13:52	0.396
5700	0.174	0.186	0.225	0.405	1:53:17 PM	9/24/2011 13:53	0.483
5760	0.089	0.094	0.109	0.182	1:54:17 PM	9/24/2011 13:54	0.21
5820	0.088	0.093	0.106	0.173	1:55:17 PM	9/24/2011 13:55	0.2
5880	0.114	0.122	0.145	0.26	1:56:17 PM	9/24/2011 13:56	0.297
5940	0.046	0.048	0.056	0.084	1:57:17 PM	9/24/2011 13:57	0.093
6000	0.039	0.041	0.046	0.063	1:58:17 PM	9/24/2011 13:58	0.068
6060	0.039	0.04	0.042	0.049	1:59:17 PM	9/24/2011 13:59	0.051
6120	0.045	0.046	0.048	0.053	2:00:17 PM	9/24/2011 14:00	0.055
6180	0.046	0.047	0.049	0.054	2:01:17 PM	9/24/2011 14:01	0.055
6240	0.048	0.049	0.051	0.06	2:02:17 PM	9/24/2011 14:02	0.063
6300	0.107	0.112	0.128	0.207	2:03:17 PM	9/24/2011 14:03	0.239
6360	0.093	0.098	0.113	0.185	2:04:17 PM	9/24/2011 14:04	0.218
6420	0.056	0.058	0.065	0.092	2:05:17 PM	9/24/2011 14:05	0.104
6480	0.044	0.045	0.048	0.059	2:06:17 PM	9/24/2011 14:06	0.064
6540	0.035	0.036	0.037	0.042	2:07:17 PM	9/24/2011 14:07	0.043
6600	0.039	0.039	0.04	0.044	2:08:17 PM	9/24/2011 14:08	0.046
6660	0.039	0.04	0.041	0.045	2:09:17 PM	9/24/2011 14:09	0.045
6720	0.045	0.046	0.047	0.051	2:10:17 PM	9/24/2011 14:10	0.053
6780	0.037	0.037	0.039	0.043	2:11:17 PM	9/24/2011 14:11	0.045
6840	0.033	0.034	0.035	0.038	2:12:17 PM	9/24/2011 14:12	0.039
6900	0.066	0.07	0.079	0.125	2:13:17 PM	9/24/2011 14:13	0.142
6960	0.11	0.116	0.136	0.229	2:14:17 PM	9/24/2011 14:14	0.261
7020	0.061	0.063	0.067	0.092	2:15:17 PM	9/24/2011 14:15	0.108
7080	0.044	0.045	0.047	0.058	2:16:17 PM	9/24/2011 14:16	0.061
7140	0.04	0.04	0.042	0.048	2:17:17 PM	9/24/2011 14:17	0.049
7200	0.038	0.039	0.04	0.043	2:18:17 PM	9/24/2011 14:18	0.044
7260	0.062	0.065	0.07	0.081	2:19:17 PM	9/24/2011 14:19	0.082
7320	0.049	0.051	0.055	0.063	2:20:17 PM	9/24/2011 14:20	0.064
7380	0.03	0.03	0.031	0.034	2:21:17 PM	9/24/2011 14:21	0.036
7440	0.071	0.074	0.085	0.135	2:22:17 PM	9/24/2011 14:22	0.155
7500	0.463	0.505	0.632	1.2	2:23:17 PM	9/24/2011 14:23	1.41
7560	0.18	0.195	0.235	0.416	2:24:17 PM	9/24/2011 14:24	0.487
7620	0.193	0.206	0.244	0.426	2:25:17 PM	9/24/2011 14:25	0.506
7680	0.169	0.178	0.206	0.342	2:26:17 PM	9/24/2011 14:26	0.398
7740	0.089	0.094	0.107	0.172	2:27:17 PM	9/24/2011 14:27	0.199
7800	0.069	0.071	0.077	0.106	2:28:17 PM	9/24/2011 14:28	0.117
7860	0.046	0.047	0.048	0.056	2:29:17 PM	9/24/2011 14:29	0.059
7920	0.046	0.047	0.049	0.055	2:30:17 PM	9/24/2011 14:30	0.057
7980	0.05	0.051	0.055	0.065	2:31:17 PM	9/24/2011 14:31	0.067
8040	0.117	0.124	0.146	0.252	2:32:17 PM	9/24/2011 14:32	0.294
8100	0.119	0.125	0.142	0.23	2:33:17 PM	9/24/2011 14:33	0.266
8160	0.038	0.04	0.044	0.062	2:34:17 PM	9/24/2011 14:34	0.067
8220	0.026	0.027	0.029	0.036	2:35:17 PM	9/24/2011 14:35	0.039

8280	0.035	0.036	0.037	0.043	2:36:17 PM	9/24/2011 14:36	0.046
8340	0.035	0.036	0.037	0.041	2:37:17 PM	9/24/2011 14:37	0.043
8400	0.044	0.045	0.046	0.051	2:38:17 PM	9/24/2011 14:38	0.053
8460	0.043	0.044	0.046	0.054	2:39:17 PM	9/24/2011 14:39	0.056
8520	0.046	0.047	0.049	0.059	2:40:17 PM	9/24/2011 14:40	0.061
8580	0.04	0.041	0.043	0.054	2:41:17 PM	9/24/2011 14:41	0.056
8640	0.038	0.039	0.042	0.055	2:42:17 PM	9/24/2011 14:42	0.059
8700	0.043	0.045	0.049	0.067	2:43:17 PM	9/24/2011 14:43	0.072
8760	0.034	0.035	0.037	0.047	2:44:17 PM	9/24/2011 14:44	0.051
8820	0.037	0.038	0.04	0.047	2:45:17 PM	9/24/2011 14:45	0.05
8880	0.032	0.032	0.034	0.038	2:46:17 PM	9/24/2011 14:46	0.04
8940	0.029	0.029	0.03	0.034	2:47:17 PM	9/24/2011 14:47	0.034
9000	0.032	0.033	0.034	0.04	2:48:17 PM	9/24/2011 14:48	0.041
9060	0.034	0.035	0.038	0.05	2:49:17 PM	9/24/2011 14:49	0.051
9120	0.042	0.043	0.047	0.064	2:50:17 PM	9/24/2011 14:50	0.069
9180	0.041	0.041	0.043	0.049	2:51:17 PM	9/24/2011 14:51	0.055
9240	0.036	0.036	0.038	0.043	2:52:17 PM	9/24/2011 14:52	0.044
9300	0.034	0.035	0.037	0.044	2:53:17 PM	9/24/2011 14:53	0.045
9360	0.036	0.037	0.04	0.051	2:54:17 PM	9/24/2011 14:54	0.056
9420	0.035	0.036	0.038	0.045	2:55:17 PM	9/24/2011 14:55	0.048
9480	0.036	0.037	0.039	0.044	2:56:17 PM	9/24/2011 14:56	0.045
9540	0.03	0.03	0.031	0.032	2:57:17 PM	9/24/2011 14:57	0.032
9600	0.032	0.033	0.033	0.036	2:58:17 PM	9/24/2011 14:58	0.036
9660	0.032	0.033	0.033	0.036	2:59:17 PM	9/24/2011 14:59	0.037
9720	0.037	0.038	0.039	0.042	3:00:17 PM	9/24/2011 15:00	0.043
9780	0.04	0.041	0.043	0.047	3:01:17 PM	9/24/2011 15:01	0.049
9840	0.035	0.036	0.037	0.039	3:02:17 PM	9/24/2011 15:02	0.039
9900	0.034	0.034	0.036	0.042	3:03:17 PM	9/24/2011 15:03	0.043
9960	0.033	0.034	0.035	0.037	3:04:17 PM	9/24/2011 15:04	0.037
10020	0.031	0.032	0.032	0.034	3:05:17 PM	9/24/2011 15:05	0.035
10080	0.033	0.034	0.035	0.038	3:06:17 PM	9/24/2011 15:06	0.038
10140	0.031	0.032	0.032	0.033	3:07:17 PM	9/24/2011 15:07	0.033
10200	0.032	0.032	0.033	0.034	3:08:17 PM	9/24/2011 15:08	0.035
10260	0.044	0.045	0.048	0.059	3:09:17 PM	9/24/2011 15:09	0.062
10320	0.058	0.06	0.064	0.083	3:10:17 PM	9/24/2011 15:10	0.088
10380	0.071	0.074	0.084	0.132	3:11:17 PM	9/24/2011 15:11	0.144
10440	0.036	0.037	0.041	0.056	3:12:17 PM	9/24/2011 15:12	0.059
10500	0.018	0.018	0.019	0.021	3:13:17 PM	9/24/2011 15:13	0.022
10560	0.02	0.021	0.022	0.027	3:14:17 PM	9/24/2011 15:14	0.03
10620	0.025	0.025	0.026	0.03	3:15:17 PM	9/24/2011 15:15	0.031
10680	0.031	0.031	0.033	0.038	3:16:17 PM	9/24/2011 15:16	0.039
10740	0.044	0.045	0.047	0.058	3:17:17 PM	9/24/2011 15:17	0.067
10800	0.11	0.111	0.114	0.159	3:18:17 PM	9/24/2011 15:18	0.193
10860	0.025	0.026	0.026	0.029	3:19:17 PM	9/24/2011 15:19	0.032
10920	0.039	0.04	0.041	0.046	3:20:17 PM	9/24/2011 15:20	0.047
10980	0.035	0.036	0.037	0.041	3:21:17 PM	9/24/2011 15:21	0.044
11040	0.025	0.026	0.026	0.028	3:22:17 PM	9/24/2011 15:22	0.029
11100	0.027	0.028	0.028	0.03	3:23:17 PM	9/24/2011 15:23	0.03
11160	0.038	0.04	0.045	0.065	3:24:17 PM	9/24/2011 15:24	0.07
11220	0.036	0.038	0.043	0.059	3:25:17 PM	9/24/2011 15:25	0.063
11280	0.031	0.032	0.035	0.044	3:26:17 PM	9/24/2011 15:26	0.048
11340	0.023	0.024	0.025	0.028	3:27:17 PM	9/24/2011 15:27	0.029
11400	0.022	0.022	0.022	0.025	3:28:17 PM	9/24/2011 15:28	0.025
11460	0.022	0.023	0.023	0.024	3:29:17 PM	9/24/2011 15:29	0.025
11520	0.022	0.022	0.022	0.023	3:30:17 PM	9/24/2011 15:30	0.023
11580	0.07	0.071	0.071	0.072	3:31:17 PM	9/24/2011 15:31	0.072
11640	0.034	0.034	0.035	0.036	3:32:17 PM	9/24/2011 15:32	0.037
11700	0.027	0.028	0.028	0.03	3:33:17 PM	9/24/2011 15:33	0.03
11760	0.027	0.028	0.028	0.029	3:34:17 PM	9/24/2011 15:34	0.029
11820	0.028	0.028	0.028	0.029	3:35:17 PM	9/24/2011 15:35	0.029
11880	0.051	0.054	0.06	0.078	3:36:17 PM	9/24/2011 15:36	0.081
11940	0.119	0.131	0.159	0.228	3:37:17 PM	9/24/2011 15:37	0.237
12000	0.046	0.048	0.05	0.054	3:38:17 PM	9/24/2011 15:38	0.055
12060	0.024	0.025	0.025	0.026	3:39:17 PM	9/24/2011 15:39	0.026
12120	0.029	0.029	0.03	0.031	3:40:17 PM	9/24/2011 15:40	0.031
12180	0.027	0.027	0.028	0.028	3:41:17 PM	9/24/2011 15:41	0.028
12240	0.042	0.043	0.044	0.048	3:42:17 PM	9/24/2011 15:42	0.048
12300	0.028	0.029	0.029	0.032	3:43:17 PM	9/24/2011 15:43	0.032
12360	0.119	0.12	0.122	0.129	3:44:17 PM	9/24/2011 15:44	0.131
12420	0.04	0.04	0.042	0.048	3:45:17 PM	9/24/2011 15:45	0.05
12480	0.048	0.05	0.053	0.062	3:46:17 PM	9/24/2011 15:46	0.066
12540	0.036	0.037	0.038	0.042	3:47:17 PM	9/24/2011 15:47	0.043
12600	0.036	0.037	0.038	0.04	3:48:17 PM	9/24/2011 15:48	0.041
12660	0.038	0.038	0.039	0.041	3:49:17 PM	9/24/2011 15:49	0.042
12720	0.035	0.035	0.036	0.038	3:50:17 PM	9/24/2011 15:50	0.038
12780	0.039	0.04	0.041	0.042	3:51:17 PM	9/24/2011 15:51	0.043
12840	0.034	0.035	0.035	0.036	3:52:17 PM	9/24/2011 15:52	0.036
12900	0.034	0.034	0.035	0.036	3:53:17 PM	9/24/2011 15:53	0.037
12960	0.036	0.037	0.037	0.039	3:54:17 PM	9/24/2011 15:54	0.04
13020	0.036	0.037	0.038	0.044	3:55:17 PM	9/24/2011 15:55	0.046
13080	0.035	0.035	0.037	0.04	3:56:17 PM	9/24/2011 15:56	0.042
13140	0.035	0.036	0.038	0.044	3:57:17 PM	9/24/2011 15:57	0.046
13200	0.031	0.032	0.033	0.037	3:58:17 PM	9/24/2011 15:58	0.039
13260	0.03	0.03	0.031	0.036	3:59:17 PM	9/24/2011 15:59	0.039
13320	0.034	0.034	0.035	0.04	4:00:17 PM	9/24/2011 16:00	0.042
13380	0.041	0.042	0.046	0.058	4:01:17 PM	9/24/2011 16:01	0.06
13440	0.046	0.048	0.052	0.067	4:02:17 PM	9/24/2011 16:02	0.07

13500	0.044	0.045	0.049	0.064	4:03:17 PM	9/24/2011 16:03	0.067
13560	0.047	0.049	0.054	0.069	4:04:17 PM	9/24/2011 16:04	0.071
13620	0.05	0.053	0.058	0.077	4:05:17 PM	9/24/2011 16:05	0.079
13680	0.091	0.097	0.115	0.177	4:06:17 PM	9/24/2011 16:06	0.191
13740	0.07	0.075	0.087	0.132	4:07:17 PM	9/24/2011 16:07	0.14
13800	0.083	0.088	0.103	0.167	4:08:17 PM	9/24/2011 16:08	0.182
13860	0.085	0.09	0.104	0.155	4:09:17 PM	9/24/2011 16:09	0.166
13920	0.059	0.061	0.067	0.09	4:10:17 PM	9/24/2011 16:10	0.094
13980	0.058	0.061	0.068	0.091	4:11:17 PM	9/24/2011 16:11	0.097
14040	0.053	0.056	0.063	0.085	4:12:17 PM	9/24/2011 16:12	0.087
14100	0.061	0.064	0.072	0.093	4:13:17 PM	9/24/2011 16:13	0.096
14160	0.048	0.051	0.056	0.069	4:14:17 PM	9/24/2011 16:14	0.071
14220	0.048	0.049	0.053	0.065	4:15:17 PM	9/24/2011 16:15	0.066
14280	0.045	0.046	0.05	0.058	4:16:17 PM	9/24/2011 16:16	0.06
14340	0.046	0.047	0.051	0.059	4:17:17 PM	9/24/2011 16:17	0.06
14400	0.042	0.043	0.045	0.05	4:18:17 PM	9/24/2011 16:18	0.05
14460	0.04	0.041	0.042	0.046	4:19:17 PM	9/24/2011 16:19	0.046
14520	0.04	0.041	0.043	0.046	4:20:17 PM	9/24/2011 16:20	0.047
14580	0.038	0.039	0.04	0.042	4:21:17 PM	9/24/2011 16:21	0.043
14640	0.037	0.037	0.038	0.04	4:22:17 PM	9/24/2011 16:22	0.04
14700	0.04	0.04	0.042	0.046	4:23:17 PM	9/24/2011 16:23	0.047
14760	0.038	0.038	0.039	0.042	4:24:17 PM	9/24/2011 16:24	0.042
14820	0.038	0.039	0.04	0.041	4:25:17 PM	9/24/2011 16:25	0.042
14880	0.038	0.038	0.039	0.042	4:26:17 PM	9/24/2011 16:26	0.042
14940	0.042	0.043	0.044	0.046	4:27:17 PM	9/24/2011 16:27	0.046
15000	0.037	0.037	0.038	0.04	4:28:17 PM	9/24/2011 16:28	0.04
15060	0.037	0.037	0.038	0.039	4:29:17 PM	9/24/2011 16:29	0.039
15120	0.037	0.037	0.038	0.04	4:30:17 PM	9/24/2011 16:30	0.04
15180	0.035	0.036	0.037	0.039	4:31:17 PM	9/24/2011 16:31	0.039
15240	0.037	0.038	0.038	0.04	4:32:17 PM	9/24/2011 16:32	0.041
15300	0.041	0.042	0.043	0.045	4:33:17 PM	9/24/2011 16:33	0.045
15360	0.038	0.039	0.04	0.041	4:34:17 PM	9/24/2011 16:34	0.042
15420	0.034	0.035	0.035	0.036	4:35:17 PM	9/24/2011 16:35	0.036
15480	0.036	0.036	0.037	0.039	4:36:17 PM	9/24/2011 16:36	0.039
15540	0.034	0.035	0.035	0.036	4:37:17 PM	9/24/2011 16:37	0.036
15600	0.032	0.032	0.033	0.033	4:38:17 PM	9/24/2011 16:38	0.033
15660	0.031	0.032	0.033	0.034	4:39:17 PM	9/24/2011 16:39	0.034
15720	0.041	0.043	0.046	0.052	4:40:17 PM	9/24/2011 16:40	0.053
15780	0.037	0.038	0.04	0.045	4:41:17 PM	9/24/2011 16:41	0.045
15840	0.037	0.038	0.04	0.043	4:42:17 PM	9/24/2011 16:42	0.044
15900	0.067	0.068	0.07	0.082	4:43:17 PM	9/24/2011 16:43	0.091
15960	0.09	0.091	0.093	0.108	4:44:17 PM	9/24/2011 16:44	0.121
16020	0.049	0.052	0.055	0.06	4:45:17 PM	9/24/2011 16:45	0.06

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_008
Test Start Time	7:20:59
Test Start Date	9/25/2011
Test Length [D:H:M]	0:11:18
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.02
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.338
PM1 TWA [mg/m3]	0.015
PM2.5 Average [mg/m3]	0.02
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.34
PM2.5 TWA [mg/m3]	0.015
PM4 Average [mg/m3]	0.021
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.349
PM4 TWA [mg/m3]	0.016
PM10 Average [mg/m3]	0.025
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	0.499
PM10 TWA [mg/m3]	0.019
TOTAL Average [mg/m3]	0.026
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	0.656
TOTAL TWA [mg/m3]	0.021
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	678



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:20:59 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.338	0.34	0.349	0.499	7:21:59 AM	9/25/2011 7:21	0.656		
120	0.086	0.087	0.088	0.09	7:22:59 AM	9/25/2011 7:22	0.09		
180	0.117	0.117	0.118	0.12	7:23:59 AM	9/25/2011 7:23	0.12		
240	0.068	0.069	0.07	0.072	7:24:59 AM	9/25/2011 7:24	0.073		
300	0.052	0.053	0.054	0.056	7:25:59 AM	9/25/2011 7:25	0.056		
360	0.035	0.035	0.036	0.037	7:26:59 AM	9/25/2011 7:26	0.037		
420	0.047	0.047	0.048	0.049	7:27:59 AM	9/25/2011 7:27	0.049		
480	0.036	0.036	0.037	0.039	7:28:59 AM	9/25/2011 7:28	0.039		
540	0.028	0.028	0.029	0.031	7:29:59 AM	9/25/2011 7:29	0.031		
600	0.03	0.031	0.032	0.033	7:30:59 AM	9/25/2011 7:30	0.033		
660	0.026	0.027	0.028	0.029	7:31:59 AM	9/25/2011 7:31	0.029		
720	0.023	0.024	0.024	0.026	7:32:59 AM	9/25/2011 7:32	0.026		
780	0.022	0.022	0.023	0.024	7:33:59 AM	9/25/2011 7:33	0.024		
840	0.093	0.094	0.097	0.119	7:34:59 AM	9/25/2011 7:34	0.148		
900	0.047	0.049	0.051	0.055	7:35:59 AM	9/25/2011 7:35	0.057		
960	0.033	0.034	0.035	0.039	7:36:59 AM	9/25/2011 7:36	0.04		
1020	0.042	0.043	0.045	0.047	7:37:59 AM	9/25/2011 7:37	0.048		
1080	0.038	0.04	0.041	0.043	7:38:59 AM	9/25/2011 7:38	0.044		
1140	0.036	0.037	0.04	0.044	7:39:59 AM	9/25/2011 7:39	0.045		
1200	0.028	0.029	0.031	0.033	7:40:59 AM	9/25/2011 7:40	0.034		
1260	0.022	0.023	0.024	0.025	7:41:59 AM	9/25/2011 7:41	0.026		
1320	0.023	0.024	0.025	0.026	7:42:59 AM	9/25/2011 7:42	0.026		
1380	0.023	0.024	0.025	0.026	7:43:59 AM	9/25/2011 7:43	0.026		
1440	0.029	0.03	0.031	0.032	7:44:59 AM	9/25/2011 7:44	0.033		
1500	0.029	0.03	0.032	0.033	7:45:59 AM	9/25/2011 7:45	0.033		
1560	0.02	0.021	0.022	0.023	7:46:59 AM	9/25/2011 7:46	0.023		
1620	0.024	0.025	0.026	0.027	7:47:59 AM	9/25/2011 7:47	0.027		
1680	0.022	0.022	0.023	0.024	7:48:59 AM	9/25/2011 7:48	0.024		
1740	0.024	0.025	0.027	0.032	7:49:59 AM	9/25/2011 7:49	0.033		
1800	0.022	0.023	0.024	0.026	7:50:59 AM	9/25/2011 7:50	0.027		
1860	0.023	0.024	0.025	0.027	7:51:59 AM	9/25/2011 7:51	0.03		
1920	0.02	0.02	0.021	0.023	7:52:59 AM	9/25/2011 7:52	0.023		
1980	0.017	0.018	0.019	0.019	7:53:59 AM	9/25/2011 7:53	0.019		
2040	0.016	0.017	0.018	0.018	7:54:59 AM	9/25/2011 7:54	0.018		
2100	0.02	0.021	0.022	0.023	7:55:59 AM	9/25/2011 7:55	0.023		
2160	0.021	0.022	0.023	0.024	7:56:59 AM	9/25/2011 7:56	0.024		
2220	0.027	0.028	0.029	0.03	7:57:59 AM	9/25/2011 7:57	0.03		
2280	0.037	0.038	0.038	0.039	7:58:59 AM	9/25/2011 7:58	0.039		
2340	0.027	0.028	0.029	0.032	7:59:59 AM	9/25/2011 7:59	0.032		
2400	0.022	0.023	0.025	0.027	8:00:59 AM	9/25/2011 8:00	0.028		
2460	0.017	0.018	0.019	0.02	8:01:59 AM	9/25/2011 8:01	0.02		
2520	0.018	0.019	0.02	0.022	8:02:59 AM	9/25/2011 8:02	0.025		
2580	0.021	0.022	0.023	0.024	8:03:59 AM	9/25/2011 8:03	0.024		
2640	0.019	0.02	0.021	0.022	8:04:59 AM	9/25/2011 8:04	0.022		
2700	0.023	0.024	0.025	0.025	8:05:59 AM	9/25/2011 8:05	0.025		
2760	0.026	0.027	0.028	0.03	8:06:59 AM	9/25/2011 8:06	0.031		
2820	0.026	0.027	0.029	0.032	8:07:59 AM	9/25/2011 8:07	0.033		
2880	0.024	0.025	0.027	0.033	8:08:59 AM	9/25/2011 8:08	0.036		
2940	0.018	0.019	0.019	0.021	8:09:59 AM	9/25/2011 8:09	0.022		
3000	0.018	0.019	0.019	0.02	8:10:59 AM	9/25/2011 8:10	0.02		

3060	0.018	0.019	0.019	0.02	8:11:59 AM	9/25/2011 8:11	0.02
3120	0.018	0.019	0.02	0.021	8:12:59 AM	9/25/2011 8:12	0.021
3180	0.033	0.036	0.039	0.042	8:13:59 AM	9/25/2011 8:13	0.043
3240	0.02	0.021	0.022	0.024	8:14:59 AM	9/25/2011 8:14	0.024
3300	0.017	0.018	0.019	0.02	8:15:59 AM	9/25/2011 8:15	0.021
3360	0.016	0.016	0.017	0.018	8:16:59 AM	9/25/2011 8:16	0.018
3420	0.015	0.016	0.017	0.018	8:17:59 AM	9/25/2011 8:17	0.018
3480	0.015	0.015	0.016	0.017	8:18:59 AM	9/25/2011 8:18	0.017
3540	0.015	0.015	0.016	0.016	8:19:59 AM	9/25/2011 8:19	0.016
3600	0.016	0.017	0.018	0.021	8:20:59 AM	9/25/2011 8:20	0.022
3660	0.015	0.015	0.016	0.017	8:21:59 AM	9/25/2011 8:21	0.018
3720	0.014	0.015	0.016	0.016	8:22:59 AM	9/25/2011 8:22	0.017
3780	0.014	0.014	0.015	0.016	8:23:59 AM	9/25/2011 8:23	0.016
3840	0.014	0.014	0.015	0.016	8:24:59 AM	9/25/2011 8:24	0.016
3900	0.013	0.014	0.015	0.015	8:25:59 AM	9/25/2011 8:25	0.015
3960	0.013	0.014	0.015	0.016	8:26:59 AM	9/25/2011 8:26	0.016
4020	0.013	0.014	0.015	0.015	8:27:59 AM	9/25/2011 8:27	0.016
4080	0.013	0.014	0.014	0.015	8:28:59 AM	9/25/2011 8:28	0.015
4140	0.013	0.014	0.015	0.015	8:29:59 AM	9/25/2011 8:29	0.015
4200	0.014	0.014	0.015	0.016	8:30:59 AM	9/25/2011 8:30	0.016
4260	0.014	0.015	0.016	0.017	8:31:59 AM	9/25/2011 8:31	0.017
4320	0.014	0.015	0.015	0.016	8:32:59 AM	9/25/2011 8:32	0.016
4380	0.014	0.015	0.016	0.016	8:33:59 AM	9/25/2011 8:33	0.016
4440	0.014	0.015	0.016	0.016	8:34:59 AM	9/25/2011 8:34	0.016
4500	0.014	0.015	0.015	0.016	8:35:59 AM	9/25/2011 8:35	0.016
4560	0.015	0.015	0.016	0.018	8:36:59 AM	9/25/2011 8:36	0.018
4620	0.014	0.015	0.015	0.017	8:37:59 AM	9/25/2011 8:37	0.017
4680	0.014	0.015	0.016	0.017	8:38:59 AM	9/25/2011 8:38	0.017
4740	0.014	0.015	0.015	0.016	8:39:59 AM	9/25/2011 8:39	0.016
4800	0.014	0.015	0.016	0.017	8:40:59 AM	9/25/2011 8:40	0.017
4860	0.015	0.016	0.017	0.019	8:41:59 AM	9/25/2011 8:41	0.019
4920	0.013	0.014	0.015	0.015	8:42:59 AM	9/25/2011 8:42	0.015
4980	0.013	0.013	0.014	0.015	8:43:59 AM	9/25/2011 8:43	0.016
5040	0.011	0.012	0.012	0.014	8:44:59 AM	9/25/2011 8:44	0.014
5100	0.01	0.011	0.012	0.012	8:45:59 AM	9/25/2011 8:45	0.012
5160	0.011	0.011	0.012	0.013	8:46:59 AM	9/25/2011 8:46	0.013
5220	0.01	0.011	0.011	0.012	8:47:59 AM	9/25/2011 8:47	0.012
5280	0.01	0.011	0.011	0.013	8:48:59 AM	9/25/2011 8:48	0.013
5340	0.01	0.01	0.011	0.013	8:49:59 AM	9/25/2011 8:49	0.014
5400	0.009	0.01	0.01	0.011	8:50:59 AM	9/25/2011 8:50	0.011
5460	0.009	0.009	0.01	0.01	8:51:59 AM	9/25/2011 8:51	0.01
5520	0.01	0.01	0.011	0.012	8:52:59 AM	9/25/2011 8:52	0.012
5580	0.009	0.01	0.011	0.012	8:53:59 AM	9/25/2011 8:53	0.012
5640	0.01	0.01	0.011	0.013	8:54:59 AM	9/25/2011 8:54	0.016
5700	0.009	0.01	0.01	0.011	8:55:59 AM	9/25/2011 8:55	0.012
5760	0.009	0.009	0.01	0.011	8:56:59 AM	9/25/2011 8:56	0.011
5820	0.009	0.01	0.011	0.011	8:57:59 AM	9/25/2011 8:57	0.011
5880	0.013	0.014	0.014	0.018	8:58:59 AM	9/25/2011 8:58	0.021
5940	0.01	0.011	0.012	0.013	8:59:59 AM	9/25/2011 8:59	0.013
6000	0.012	0.013	0.014	0.015	9:00:59 AM	9/25/2011 9:00	0.016
6060	0.018	0.018	0.019	0.021	9:01:59 AM	9/25/2011 9:01	0.022
6120	0.011	0.012	0.012	0.013	9:02:59 AM	9/25/2011 9:02	0.013
6180	0.017	0.017	0.018	0.019	9:03:59 AM	9/25/2011 9:03	0.019
6240	0.013	0.014	0.015	0.015	9:04:59 AM	9/25/2011 9:04	0.016
6300	0.015	0.016	0.017	0.018	9:05:59 AM	9/25/2011 9:05	0.018
6360	0.01	0.011	0.012	0.013	9:06:59 AM	9/25/2011 9:06	0.014
6420	0.015	0.016	0.018	0.024	9:07:59 AM	9/25/2011 9:07	0.027
6480	0.013	0.014	0.015	0.019	9:08:59 AM	9/25/2011 9:08	0.019
6540	0.01	0.01	0.011	0.012	9:09:59 AM	9/25/2011 9:09	0.012
6600	0.044	0.045	0.047	0.072	9:10:59 AM	9/25/2011 9:10	0.091
6660	0.013	0.013	0.014	0.016	9:11:59 AM	9/25/2011 9:11	0.016
6720	0.012	0.013	0.013	0.014	9:12:59 AM	9/25/2011 9:12	0.014
6780	0.013	0.013	0.014	0.016	9:13:59 AM	9/25/2011 9:13	0.016
6840	0.012	0.013	0.014	0.015	9:14:59 AM	9/25/2011 9:14	0.015
6900	0.014	0.015	0.017	0.02	9:15:59 AM	9/25/2011 9:15	0.021
6960	0.012	0.013	0.013	0.015	9:16:59 AM	9/25/2011 9:16	0.015
7020	0.015	0.015	0.016	0.018	9:17:59 AM	9/25/2011 9:17	0.019
7080	0.014	0.014	0.015	0.017	9:18:59 AM	9/25/2011 9:18	0.017
7140	0.013	0.014	0.015	0.016	9:19:59 AM	9/25/2011 9:19	0.016
7200	0.015	0.015	0.016	0.017	9:20:59 AM	9/25/2011 9:20	0.017
7260	0.017	0.018	0.019	0.02	9:21:59 AM	9/25/2011 9:21	0.021
7320	0.016	0.017	0.018	0.018	9:22:59 AM	9/25/2011 9:22	0.019
7380	0.016	0.017	0.018	0.019	9:23:59 AM	9/25/2011 9:23	0.019
7440	0.016	0.016	0.017	0.018	9:24:59 AM	9/25/2011 9:24	0.018
7500	0.023	0.023	0.024	0.025	9:25:59 AM	9/25/2011 9:25	0.026
7560	0.166	0.167	0.17	0.197	9:26:59 AM	9/25/2011 9:26	0.22
7620	0.019	0.02	0.02	0.024	9:27:59 AM	9/25/2011 9:27	0.026
7680	0.015	0.016	0.017	0.018	9:28:59 AM	9/25/2011 9:28	0.018
7740	0.015	0.015	0.016	0.017	9:29:59 AM	9/25/2011 9:29	0.018
7800	0.016	0.017	0.017	0.018	9:30:59 AM	9/25/2011 9:30	0.019
7860	0.014	0.015	0.016	0.017	9:31:59 AM	9/25/2011 9:31	0.017
7920	0.016	0.017	0.018	0.018	9:32:59 AM	9/25/2011 9:32	0.018
7980	0.017	0.017	0.018	0.02	9:33:59 AM	9/25/2011 9:33	0.021
8040	0.016	0.017	0.017	0.019	9:34:59 AM	9/25/2011 9:34	0.02
8100	0.018	0.019	0.02	0.022	9:35:59 AM	9/25/2011 9:35	0.023
8160	0.015	0.015	0.016	0.017	9:36:59 AM	9/25/2011 9:36	0.017
8220	0.014	0.015	0.016	0.016	9:37:59 AM	9/25/2011 9:37	0.016

8280	0.016	0.017	0.018	0.018	9:38:59 AM	9/25/2011 9:38	0.018
8340	0.017	0.018	0.018	0.019	9:39:59 AM	9/25/2011 9:39	0.019
8400	0.017	0.018	0.019	0.021	9:40:59 AM	9/25/2011 9:40	0.021
8460	0.016	0.017	0.017	0.018	9:41:59 AM	9/25/2011 9:41	0.019
8520	0.017	0.018	0.019	0.021	9:42:59 AM	9/25/2011 9:42	0.022
8580	0.019	0.02	0.021	0.025	9:43:59 AM	9/25/2011 9:43	0.025
8640	0.017	0.018	0.019	0.021	9:44:59 AM	9/25/2011 9:44	0.021
8700	0.016	0.017	0.018	0.019	9:45:59 AM	9/25/2011 9:45	0.019
8760	0.016	0.017	0.017	0.018	9:46:59 AM	9/25/2011 9:46	0.019
8820	0.015	0.015	0.016	0.017	9:47:59 AM	9/25/2011 9:47	0.017
8880	0.017	0.017	0.018	0.019	9:48:59 AM	9/25/2011 9:48	0.019
8940	0.016	0.017	0.018	0.02	9:49:59 AM	9/25/2011 9:49	0.021
9000	0.015	0.016	0.017	0.018	9:50:59 AM	9/25/2011 9:50	0.018
9060	0.016	0.017	0.017	0.019	9:51:59 AM	9/25/2011 9:51	0.019
9120	0.019	0.02	0.022	0.026	9:52:59 AM	9/25/2011 9:52	0.026
9180	0.018	0.019	0.02	0.023	9:53:59 AM	9/25/2011 9:53	0.024
9240	0.019	0.02	0.021	0.026	9:54:59 AM	9/25/2011 9:54	0.027
9300	0.016	0.017	0.018	0.02	9:55:59 AM	9/25/2011 9:55	0.021
9360	0.017	0.018	0.019	0.022	9:56:59 AM	9/25/2011 9:56	0.022
9420	0.016	0.016	0.017	0.019	9:57:59 AM	9/25/2011 9:57	0.019
9480	0.016	0.017	0.017	0.018	9:58:59 AM	9/25/2011 9:58	0.018
9540	0.016	0.017	0.018	0.019	9:59:59 AM	9/25/2011 9:59	0.019
9600	0.019	0.02	0.022	0.025	10:00:59 AM	9/25/2011 10:00	0.025
9660	0.017	0.017	0.018	0.02	10:01:59 AM	9/25/2011 10:01	0.02
9720	0.019	0.019	0.02	0.023	10:02:59 AM	9/25/2011 10:02	0.024
9780	0.02	0.021	0.022	0.026	10:03:59 AM	9/25/2011 10:03	0.027
9840	0.023	0.023	0.024	0.026	10:04:59 AM	9/25/2011 10:04	0.026
9900	0.02	0.02	0.021	0.022	10:05:59 AM	9/25/2011 10:05	0.022
9960	0.017	0.018	0.018	0.019	10:06:59 AM	9/25/2011 10:06	0.019
10020	0.015	0.016	0.016	0.017	10:07:59 AM	9/25/2011 10:07	0.018
10080	0.015	0.016	0.017	0.019	10:08:59 AM	9/25/2011 10:08	0.02
10140	0.014	0.015	0.015	0.017	10:09:59 AM	9/25/2011 10:09	0.018
10200	0.038	0.039	0.041	0.052	10:10:59 AM	9/25/2011 10:10	0.063
10260	0.017	0.018	0.019	0.021	10:11:59 AM	9/25/2011 10:11	0.021
10320	0.016	0.017	0.018	0.02	10:12:59 AM	9/25/2011 10:12	0.02
10380	0.017	0.017	0.018	0.02	10:13:59 AM	9/25/2011 10:13	0.02
10440	0.016	0.016	0.017	0.018	10:14:59 AM	9/25/2011 10:14	0.018
10500	0.015	0.016	0.016	0.017	10:15:59 AM	9/25/2011 10:15	0.017
10560	0.017	0.018	0.018	0.021	10:16:59 AM	9/25/2011 10:16	0.021
10620	0.016	0.016	0.017	0.018	10:17:59 AM	9/25/2011 10:17	0.018
10680	0.019	0.02	0.021	0.024	10:18:59 AM	9/25/2011 10:18	0.025
10740	0.021	0.022	0.023	0.025	10:19:59 AM	9/25/2011 10:19	0.027
10800	0.019	0.019	0.02	0.021	10:20:59 AM	9/25/2011 10:20	0.021
10860	0.015	0.016	0.016	0.018	10:21:59 AM	9/25/2011 10:21	0.019
10920	0.018	0.019	0.02	0.028	10:22:59 AM	9/25/2011 10:22	0.031
10980	0.016	0.017	0.018	0.02	10:23:59 AM	9/25/2011 10:23	0.02
11040	0.017	0.018	0.018	0.02	10:24:59 AM	9/25/2011 10:24	0.02
11100	0.016	0.017	0.018	0.018	10:25:59 AM	9/25/2011 10:25	0.018
11160	0.019	0.019	0.02	0.021	10:26:59 AM	9/25/2011 10:26	0.021
11220	0.018	0.019	0.019	0.021	10:27:59 AM	9/25/2011 10:27	0.021
11280	0.02	0.021	0.022	0.027	10:28:59 AM	9/25/2011 10:28	0.028
11340	0.016	0.017	0.018	0.02	10:29:59 AM	9/25/2011 10:29	0.02
11400	0.032	0.033	0.035	0.037	10:30:59 AM	9/25/2011 10:30	0.038
11460	0.035	0.036	0.038	0.044	10:31:59 AM	9/25/2011 10:31	0.047
11520	0.022	0.022	0.024	0.026	10:32:59 AM	9/25/2011 10:32	0.027
11580	0.019	0.02	0.021	0.024	10:33:59 AM	9/25/2011 10:33	0.025
11640	0.015	0.016	0.016	0.017	10:34:59 AM	9/25/2011 10:34	0.017
11700	0.015	0.015	0.016	0.017	10:35:59 AM	9/25/2011 10:35	0.017
11760	0.014	0.014	0.015	0.015	10:36:59 AM	9/25/2011 10:36	0.015
11820	0.014	0.014	0.015	0.016	10:37:59 AM	9/25/2011 10:37	0.016
11880	0.014	0.015	0.015	0.016	10:38:59 AM	9/25/2011 10:38	0.016
11940	0.015	0.015	0.016	0.018	10:39:59 AM	9/25/2011 10:39	0.018
12000	0.019	0.02	0.021	0.024	10:40:59 AM	9/25/2011 10:40	0.024
12060	0.023	0.024	0.025	0.028	10:41:59 AM	9/25/2011 10:41	0.028
12120	0.026	0.027	0.028	0.029	10:42:59 AM	9/25/2011 10:42	0.03
12180	0.018	0.018	0.019	0.02	10:43:59 AM	9/25/2011 10:43	0.02
12240	0.022	0.023	0.024	0.028	10:44:59 AM	9/25/2011 10:44	0.028
12300	0.017	0.018	0.019	0.019	10:45:59 AM	9/25/2011 10:45	0.019
12360	0.022	0.023	0.024	0.034	10:46:59 AM	9/25/2011 10:46	0.036
12420	0.02	0.021	0.023	0.031	10:47:59 AM	9/25/2011 10:47	0.032
12480	0.022	0.023	0.024	0.028	10:48:59 AM	9/25/2011 10:48	0.028
12540	0.017	0.017	0.019	0.021	10:49:59 AM	9/25/2011 10:49	0.021
12600	0.015	0.016	0.017	0.019	10:50:59 AM	9/25/2011 10:50	0.02
12660	0.014	0.015	0.015	0.016	10:51:59 AM	9/25/2011 10:51	0.017
12720	0.014	0.015	0.015	0.017	10:52:59 AM	9/25/2011 10:52	0.017
12780	0.02	0.021	0.022	0.026	10:53:59 AM	9/25/2011 10:53	0.027
12840	0.022	0.023	0.024	0.034	10:54:59 AM	9/25/2011 10:54	0.037
12900	0.021	0.022	0.023	0.024	10:55:59 AM	9/25/2011 10:55	0.024
12960	0.021	0.021	0.022	0.023	10:56:59 AM	9/25/2011 10:56	0.023
13020	0.016	0.016	0.016	0.017	10:57:59 AM	9/25/2011 10:57	0.017
13080	0.019	0.02	0.021	0.021	10:58:59 AM	9/25/2011 10:58	0.022
13140	0.021	0.022	0.023	0.024	10:59:59 AM	9/25/2011 10:59	0.024
13200	0.02	0.021	0.022	0.023	11:00:59 AM	9/25/2011 11:00	0.023
13260	0.024	0.024	0.025	0.028	11:01:59 AM	9/25/2011 11:01	0.029
13320	0.018	0.018	0.019	0.019	11:02:59 AM	9/25/2011 11:02	0.019
13380	0.02	0.021	0.022	0.025	11:03:59 AM	9/25/2011 11:03	0.025
13440	0.018	0.019	0.02	0.022	11:04:59 AM	9/25/2011 11:04	0.023

13500	0.021	0.022	0.023	0.024	11:05:59 AM	9/25/2011 11:05	0.024
13560	0.027	0.028	0.029	0.031	11:06:59 AM	9/25/2011 11:06	0.031
13620	0.015	0.016	0.016	0.017	11:07:59 AM	9/25/2011 11:07	0.017
13680	0.013	0.014	0.014	0.015	11:08:59 AM	9/25/2011 11:08	0.015
13740	0.018	0.018	0.019	0.021	11:09:59 AM	9/25/2011 11:09	0.021
13800	0.016	0.016	0.017	0.02	11:10:59 AM	9/25/2011 11:10	0.023
13860	0.015	0.016	0.016	0.017	11:11:59 AM	9/25/2011 11:11	0.017
13920	0.014	0.015	0.015	0.016	11:12:59 AM	9/25/2011 11:12	0.016
13980	0.015	0.016	0.017	0.02	11:13:59 AM	9/25/2011 11:13	0.021
14040	0.011	0.012	0.012	0.014	11:14:59 AM	9/25/2011 11:14	0.014
14100	0.012	0.012	0.013	0.014	11:15:59 AM	9/25/2011 11:15	0.014
14160	0.014	0.014	0.015	0.015	11:16:59 AM	9/25/2011 11:16	0.015
14220	0.017	0.017	0.019	0.024	11:17:59 AM	9/25/2011 11:17	0.026
14280	0.016	0.017	0.017	0.018	11:18:59 AM	9/25/2011 11:18	0.018
14340	0.014	0.014	0.014	0.015	11:19:59 AM	9/25/2011 11:19	0.015
14400	0.018	0.018	0.019	0.021	11:20:59 AM	9/25/2011 11:20	0.022
14460	0.025	0.025	0.026	0.028	11:21:59 AM	9/25/2011 11:21	0.029
14520	0.018	0.018	0.019	0.02	11:22:59 AM	9/25/2011 11:22	0.02
14580	0.017	0.018	0.018	0.019	11:23:59 AM	9/25/2011 11:23	0.019
14640	0.015	0.015	0.016	0.017	11:24:59 AM	9/25/2011 11:24	0.018
14700	0.02	0.02	0.021	0.025	11:25:59 AM	9/25/2011 11:25	0.027
14760	0.017	0.017	0.018	0.022	11:26:59 AM	9/25/2011 11:26	0.023
14820	0.022	0.023	0.025	0.031	11:27:59 AM	9/25/2011 11:27	0.033
14880	0.016	0.017	0.018	0.022	11:28:59 AM	9/25/2011 11:28	0.024
14940	0.019	0.02	0.021	0.024	11:29:59 AM	9/25/2011 11:29	0.025
15000	0.014	0.015	0.016	0.018	11:30:59 AM	9/25/2011 11:30	0.018
15060	0.014	0.014	0.015	0.017	11:31:59 AM	9/25/2011 11:31	0.017
15120	0.014	0.014	0.015	0.018	11:32:59 AM	9/25/2011 11:32	0.018
15180	0.014	0.014	0.015	0.017	11:33:59 AM	9/25/2011 11:33	0.018
15240	0.013	0.013	0.013	0.014	11:34:59 AM	9/25/2011 11:34	0.014
15300	0.012	0.012	0.013	0.014	11:35:59 AM	9/25/2011 11:35	0.014
15360	0.017	0.018	0.019	0.021	11:36:59 AM	9/25/2011 11:36	0.021
15420	0.016	0.016	0.017	0.019	11:37:59 AM	9/25/2011 11:37	0.02
15480	0.016	0.017	0.017	0.02	11:38:59 AM	9/25/2011 11:38	0.021
15540	0.014	0.014	0.015	0.016	11:39:59 AM	9/25/2011 11:39	0.016
15600	0.018	0.019	0.019	0.021	11:40:59 AM	9/25/2011 11:40	0.021
15660	0.02	0.02	0.021	0.023	11:41:59 AM	9/25/2011 11:41	0.023
15720	0.018	0.019	0.019	0.021	11:42:59 AM	9/25/2011 11:42	0.022
15780	0.018	0.019	0.019	0.022	11:43:59 AM	9/25/2011 11:43	0.022
15840	0.033	0.034	0.035	0.046	11:44:59 AM	9/25/2011 11:44	0.051
15900	0.02	0.021	0.022	0.028	11:45:59 AM	9/25/2011 11:45	0.032
15960	0.015	0.015	0.016	0.017	11:46:59 AM	9/25/2011 11:46	0.017
16020	0.02	0.02	0.021	0.023	11:47:59 AM	9/25/2011 11:47	0.024
16080	0.016	0.016	0.017	0.018	11:48:59 AM	9/25/2011 11:48	0.018
16140	0.022	0.023	0.023	0.025	11:49:59 AM	9/25/2011 11:49	0.025
16200	0.013	0.014	0.014	0.015	11:50:59 AM	9/25/2011 11:50	0.015
16260	0.019	0.02	0.021	0.024	11:51:59 AM	9/25/2011 11:51	0.026
16320	0.015	0.015	0.016	0.017	11:52:59 AM	9/25/2011 11:52	0.017
16380	0.015	0.016	0.017	0.018	11:53:59 AM	9/25/2011 11:53	0.018
16440	0.013	0.014	0.014	0.015	11:54:59 AM	9/25/2011 11:54	0.015
16500	0.014	0.014	0.015	0.016	11:55:59 AM	9/25/2011 11:55	0.016
16560	0.016	0.016	0.017	0.022	11:56:59 AM	9/25/2011 11:56	0.023
16620	0.025	0.026	0.029	0.042	11:57:59 AM	9/25/2011 11:57	0.045
16680	0.056	0.057	0.058	0.068	11:58:59 AM	9/25/2011 11:58	0.078
16740	0.044	0.045	0.045	0.049	11:59:59 AM	9/25/2011 11:59	0.054
16800	0.014	0.014	0.015	0.017	12:00:59 PM	9/25/2011 12:00	0.017
16860	0.014	0.014	0.015	0.015	12:01:59 PM	9/25/2011 12:01	0.015
16920	0.013	0.014	0.014	0.015	12:02:59 PM	9/25/2011 12:02	0.015
16980	0.015	0.015	0.016	0.017	12:03:59 PM	9/25/2011 12:03	0.018
17040	0.011	0.012	0.012	0.013	12:04:59 PM	9/25/2011 12:04	0.014
17100	0.012	0.013	0.013	0.014	12:05:59 PM	9/25/2011 12:05	0.014
17160	0.029	0.03	0.031	0.032	12:06:59 PM	9/25/2011 12:06	0.033
17220	0.018	0.019	0.02	0.022	12:07:59 PM	9/25/2011 12:07	0.022
17280	0.013	0.014	0.015	0.017	12:08:59 PM	9/25/2011 12:08	0.018
17340	0.019	0.02	0.021	0.025	12:09:59 PM	9/25/2011 12:09	0.026
17400	0.023	0.024	0.025	0.029	12:10:59 PM	9/25/2011 12:10	0.03
17460	0.019	0.02	0.021	0.024	12:11:59 PM	9/25/2011 12:11	0.025
17520	0.015	0.016	0.017	0.02	12:12:59 PM	9/25/2011 12:12	0.02
17580	0.015	0.016	0.017	0.022	12:13:59 PM	9/25/2011 12:13	0.023
17640	0.035	0.036	0.04	0.063	12:14:59 PM	9/25/2011 12:14	0.071
17700	0.064	0.065	0.071	0.125	12:15:59 PM	9/25/2011 12:15	0.16
17760	0.016	0.016	0.018	0.024	12:16:59 PM	9/25/2011 12:16	0.026
17820	0.014	0.014	0.015	0.019	12:17:59 PM	9/25/2011 12:17	0.019
17880	0.013	0.013	0.014	0.015	12:18:59 PM	9/25/2011 12:18	0.017
17940	0.016	0.017	0.017	0.018	12:19:59 PM	9/25/2011 12:19	0.018
18000	0.012	0.012	0.013	0.014	12:20:59 PM	9/25/2011 12:20	0.014
18060	0.01	0.011	0.011	0.012	12:21:59 PM	9/25/2011 12:21	0.012
18120	0.018	0.019	0.02	0.021	12:22:59 PM	9/25/2011 12:22	0.021
18180	0.018	0.019	0.02	0.026	12:23:59 PM	9/25/2011 12:23	0.026
18240	0.015	0.015	0.016	0.016	12:24:59 PM	9/25/2011 12:24	0.018
18300	0.014	0.015	0.015	0.018	12:25:59 PM	9/25/2011 12:25	0.019
18360	0.024	0.025	0.027	0.03	12:26:59 PM	9/25/2011 12:26	0.032
18420	0.016	0.017	0.017	0.018	12:27:59 PM	9/25/2011 12:27	0.018
18480	0.012	0.013	0.013	0.02	12:28:59 PM	9/25/2011 12:28	0.023
18540	0	0.001	0.001	0.002	12:29:59 PM	9/25/2011 12:29	0.003
18600	0.001	0.002	0.002	0.002	12:30:59 PM	9/25/2011 12:30	0.002
18660	0.003	0.003	0.005	0.015	12:31:59 PM	9/25/2011 12:31	0.018

18720	0.007	0.008	0.011	0.026	12:32:59 PM	9/25/2011 12:32	0.029
18780	0	0	0.001	0.003	12:33:59 PM	9/25/2011 12:33	0.004
18840	0	0	0	0	12:34:59 PM	9/25/2011 12:34	0
18900	0.004	0.004	0.005	0.007	12:35:59 PM	9/25/2011 12:35	0.007
18960	0	0	0	0	12:36:59 PM	9/25/2011 12:36	0
19020	0	0	0	0.002	12:37:59 PM	9/25/2011 12:37	0.003
19080	0	0	0	0	12:38:59 PM	9/25/2011 12:38	0
19140	0.001	0.002	0.003	0.005	12:39:59 PM	9/25/2011 12:39	0.005
19200	0	0	0	0.001	12:40:59 PM	9/25/2011 12:40	0.001
19260	0	0	0	0.001	12:41:59 PM	9/25/2011 12:41	0.001
19320	0	0	0	0	12:42:59 PM	9/25/2011 12:42	0
19380	0	0	0	0	12:43:59 PM	9/25/2011 12:43	0
19440	0	0	0	0	12:44:59 PM	9/25/2011 12:44	0
19500	0	0	0	0	12:45:59 PM	9/25/2011 12:45	0
19560	0	0	0	0	12:46:59 PM	9/25/2011 12:46	0
19620	0	0	0	0	12:47:59 PM	9/25/2011 12:47	0
19680	0	0	0	0	12:48:59 PM	9/25/2011 12:48	0
19740	0	0	0	0	12:49:59 PM	9/25/2011 12:49	0
19800	0.001	0.002	0.002	0.003	12:50:59 PM	9/25/2011 12:50	0.004
19860	0	0	0	0	12:51:59 PM	9/25/2011 12:51	0
19920	0	0	0	0	12:52:59 PM	9/25/2011 12:52	0
19980	0	0	0	0	12:53:59 PM	9/25/2011 12:53	0
20040	0	0	0	0	12:54:59 PM	9/25/2011 12:54	0
20100	0	0	0	0	12:55:59 PM	9/25/2011 12:55	0
20160	0	0	0	0	12:56:59 PM	9/25/2011 12:56	0
20220	0	0	0	0	12:57:59 PM	9/25/2011 12:57	0
20280	0	0	0	0	12:58:59 PM	9/25/2011 12:58	0
20340	0	0	0	0	12:59:59 PM	9/25/2011 12:59	0.001
20400	0.173	0.174	0.177	0.215	1:00:59 PM	9/25/2011 13:00	0.252
20460	0.013	0.013	0.013	0.016	1:01:59 PM	9/25/2011 13:01	0.021
20520	0	0	0	0	1:02:59 PM	9/25/2011 13:02	0
20580	0	0	0	0	1:03:59 PM	9/25/2011 13:03	0
20640	0	0	0	0	1:04:59 PM	9/25/2011 13:04	0
20700	0	0	0	0	1:05:59 PM	9/25/2011 13:05	0
20760	0	0	0	0	1:06:59 PM	9/25/2011 13:06	0
20820	0	0	0.001	0.002	1:07:59 PM	9/25/2011 13:07	0.003
20880	0.001	0.001	0.002	0.003	1:08:59 PM	9/25/2011 13:08	0.004
20940	0	0	0	0	1:09:59 PM	9/25/2011 13:09	0
21000	0	0	0	0.002	1:10:59 PM	9/25/2011 13:10	0.003
21060	0	0	0	0	1:11:59 PM	9/25/2011 13:11	0
21120	0.001	0.001	0.001	0.004	1:12:59 PM	9/25/2011 13:12	0.005
21180	0	0	0	0.001	1:13:59 PM	9/25/2011 13:13	0.001
21240	0	0	0	0	1:14:59 PM	9/25/2011 13:14	0
21300	0	0	0	0	1:15:59 PM	9/25/2011 13:15	0
21360	0	0	0	0	1:16:59 PM	9/25/2011 13:16	0.001
21420	0	0	0	0.001	1:17:59 PM	9/25/2011 13:17	0.001
21480	0	0	0	0.001	1:18:59 PM	9/25/2011 13:18	0.001
21540	0	0	0	0	1:19:59 PM	9/25/2011 13:19	0
21600	0	0	0	0	1:20:59 PM	9/25/2011 13:20	0
21660	0.001	0.001	0.001	0.003	1:21:59 PM	9/25/2011 13:21	0.004
21720	0.05	0.05	0.052	0.063	1:22:59 PM	9/25/2011 13:22	0.069
21780	0	0	0	0	1:23:59 PM	9/25/2011 13:23	0
21840	0	0	0	0	1:24:59 PM	9/25/2011 13:24	0
21900	0	0	0	0.001	1:25:59 PM	9/25/2011 13:25	0.001
21960	0	0	0	0.001	1:26:59 PM	9/25/2011 13:26	0.001
22020	0.003	0.004	0.006	0.019	1:27:59 PM	9/25/2011 13:27	0.024
22080	0	0	0	0	1:28:59 PM	9/25/2011 13:28	0
22140	0	0	0	0.001	1:29:59 PM	9/25/2011 13:29	0.002
22200	0.001	0.001	0.002	0.008	1:30:59 PM	9/25/2011 13:30	0.01
22260	0	0	0	0.001	1:31:59 PM	9/25/2011 13:31	0.001
22320	0	0	0	0	1:32:59 PM	9/25/2011 13:32	0
22380	0	0	0	0	1:33:59 PM	9/25/2011 13:33	0
22440	0	0	0	0	1:34:59 PM	9/25/2011 13:34	0
22500	0	0	0	0	1:35:59 PM	9/25/2011 13:35	0
22560	0	0	0	0	1:36:59 PM	9/25/2011 13:36	0.001
22620	0	0	0	0	1:37:59 PM	9/25/2011 13:37	0
22680	0	0	0	0	1:38:59 PM	9/25/2011 13:38	0
22740	0	0	0	0	1:39:59 PM	9/25/2011 13:39	0
22800	0	0	0	0	1:40:59 PM	9/25/2011 13:40	0
22860	0	0	0	0	1:41:59 PM	9/25/2011 13:41	0
22920	0	0	0	0	1:42:59 PM	9/25/2011 13:42	0
22980	0	0	0	0	1:43:59 PM	9/25/2011 13:43	0
23040	0	0	0	0	1:44:59 PM	9/25/2011 13:44	0
23100	0	0	0	0	1:45:59 PM	9/25/2011 13:45	0
23160	0	0	0	0	1:46:59 PM	9/25/2011 13:46	0
23220	0	0	0	0	1:47:59 PM	9/25/2011 13:47	0
23280	0	0	0	0	1:48:59 PM	9/25/2011 13:48	0
23340	0	0	0	0	1:49:59 PM	9/25/2011 13:49	0
23400	0	0	0	0	1:50:59 PM	9/25/2011 13:50	0
23460	0	0	0	0	1:51:59 PM	9/25/2011 13:51	0
23520	0	0	0	0	1:52:59 PM	9/25/2011 13:52	0
23580	0	0	0	0	1:53:59 PM	9/25/2011 13:53	0
23640	0	0	0	0	1:54:59 PM	9/25/2011 13:54	0
23700	0	0	0	0	1:55:59 PM	9/25/2011 13:55	0
23760	0	0	0	0	1:56:59 PM	9/25/2011 13:56	0
23820	0	0	0	0	1:57:59 PM	9/25/2011 13:57	0
23880	0	0	0	0	1:58:59 PM	9/25/2011 13:58	0

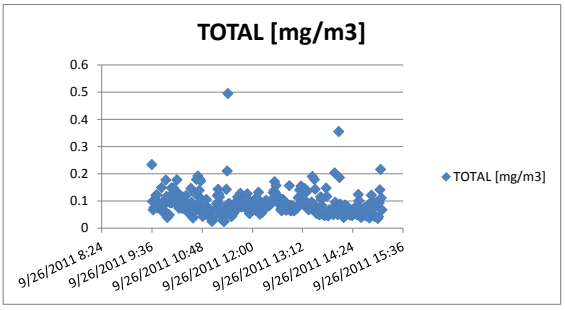
23940	0	0	0	0	1:59:59 PM	9/25/2011 13:59	0
24000	0	0	0	0	2:00:59 PM	9/25/2011 14:00	0
24060	0	0	0	0	2:01:59 PM	9/25/2011 14:01	0
24120	0	0	0	0	2:02:59 PM	9/25/2011 14:02	0
24180	0	0	0	0	2:03:59 PM	9/25/2011 14:03	0
24240	0	0	0	0	2:04:59 PM	9/25/2011 14:04	0
24300	0	0	0	0	2:05:59 PM	9/25/2011 14:05	0
24360	0	0	0	0	2:06:59 PM	9/25/2011 14:06	0
24420	0	0	0	0	2:07:59 PM	9/25/2011 14:07	0
24480	0	0	0	0	2:08:59 PM	9/25/2011 14:08	0
24540	0	0	0	0	2:09:59 PM	9/25/2011 14:09	0
24600	0.002	0.003	0.005	0.021	2:10:59 PM	9/25/2011 14:10	0.026
24660	0	0	0.001	0.009	2:11:59 PM	9/25/2011 14:11	0.014
24720	0	0	0	0	2:12:59 PM	9/25/2011 14:12	0
24780	0	0	0	0	2:13:59 PM	9/25/2011 14:13	0
24840	0	0	0	0	2:14:59 PM	9/25/2011 14:14	0
24900	0.001	0.001	0.001	0.002	2:15:59 PM	9/25/2011 14:15	0.002
24960	0.209	0.212	0.221	0.308	2:16:59 PM	9/25/2011 14:16	0.36
25020	0.012	0.013	0.015	0.018	2:17:59 PM	9/25/2011 14:17	0.02
25080	0	0	0	0	2:18:59 PM	9/25/2011 14:18	0
25140	0.002	0.002	0.002	0.004	2:19:59 PM	9/25/2011 14:19	0.004
25200	0.001	0.001	0.002	0.004	2:20:59 PM	9/25/2011 14:20	0.005
25260	0.006	0.006	0.009	0.025	2:21:59 PM	9/25/2011 14:21	0.03
25320	0	0	0	0	2:22:59 PM	9/25/2011 14:22	0
25380	0	0	0	0.001	2:23:59 PM	9/25/2011 14:23	0.002
25440	0	0	0.001	0.002	2:24:59 PM	9/25/2011 14:24	0.002
25500	0	0	0	0	2:25:59 PM	9/25/2011 14:25	0
25560	0.001	0.001	0.001	0.001	2:26:59 PM	9/25/2011 14:26	0.001
25620	0	0	0	0	2:27:59 PM	9/25/2011 14:27	0
25680	0.008	0.008	0.008	0.011	2:28:59 PM	9/25/2011 14:28	0.013
25740	0.015	0.016	0.017	0.023	2:29:59 PM	9/25/2011 14:29	0.027
25800	0	0	0	0	2:30:59 PM	9/25/2011 14:30	0
25860	0	0	0	0	2:31:59 PM	9/25/2011 14:31	0
25920	0	0	0	0	2:32:59 PM	9/25/2011 14:32	0
25980	0	0	0	0	2:33:59 PM	9/25/2011 14:33	0
26040	0.001	0.001	0.002	0.004	2:34:59 PM	9/25/2011 14:34	0.004
26100	0	0	0	0	2:35:59 PM	9/25/2011 14:35	0
26160	0	0	0	0	2:36:59 PM	9/25/2011 14:36	0
26220	0	0	0	0	2:37:59 PM	9/25/2011 14:37	0
26280	0	0	0	0.001	2:38:59 PM	9/25/2011 14:38	0.001
26340	0	0	0.002	0.016	2:39:59 PM	9/25/2011 14:39	0.023
26400	0.004	0.005	0.008	0.031	2:40:59 PM	9/25/2011 14:40	0.04
26460	0.031	0.033	0.039	0.068	2:41:59 PM	9/25/2011 14:41	0.077
26520	0	0	0	0.002	2:42:59 PM	9/25/2011 14:42	0.005
26580	0.001	0.002	0.003	0.014	2:43:59 PM	9/25/2011 14:43	0.019
26640	0	0	0	0	2:44:59 PM	9/25/2011 14:44	0
26700	0	0	0	0	2:45:59 PM	9/25/2011 14:45	0
26760	0	0	0	0	2:46:59 PM	9/25/2011 14:46	0.001
26820	0	0	0	0	2:47:59 PM	9/25/2011 14:47	0
26880	0	0	0	0	2:48:59 PM	9/25/2011 14:48	0
26940	0	0	0	0	2:49:59 PM	9/25/2011 14:49	0
27000	0	0	0	0	2:50:59 PM	9/25/2011 14:50	0
27060	0	0	0	0	2:51:59 PM	9/25/2011 14:51	0
27120	0	0	0	0.001	2:52:59 PM	9/25/2011 14:52	0.002
27180	0.001	0.001	0.001	0.005	2:53:59 PM	9/25/2011 14:53	0.007
27240	0	0	0	0.002	2:54:59 PM	9/25/2011 14:54	0.003
27300	0.001	0.002	0.002	0.006	2:55:59 PM	9/25/2011 14:55	0.007
27360	0.034	0.036	0.041	0.065	2:56:59 PM	9/25/2011 14:56	0.075
27420	0.004	0.004	0.004	0.006	2:57:59 PM	9/25/2011 14:57	0.006
27480	0	0	0	0	2:58:59 PM	9/25/2011 14:58	0
27540	0	0	0	0	2:59:59 PM	9/25/2011 14:59	0
27600	0.003	0.003	0.004	0.009	3:00:59 PM	9/25/2011 15:00	0.012
27660	0	0	0	0.001	3:01:59 PM	9/25/2011 15:01	0.002
27720	0	0	0	0.001	3:02:59 PM	9/25/2011 15:02	0.002
27780	0	0	0	0.001	3:03:59 PM	9/25/2011 15:03	0.001
27840	0	0	0	0.002	3:04:59 PM	9/25/2011 15:04	0.003
27900	0.004	0.005	0.006	0.012	3:05:59 PM	9/25/2011 15:05	0.015
27960	0.002	0.002	0.002	0.003	3:06:59 PM	9/25/2011 15:06	0.003
28020	0	0	0	0	3:07:59 PM	9/25/2011 15:07	0
28080	0.001	0.001	0.001	0.001	3:08:59 PM	9/25/2011 15:08	0.001
28140	0	0	0	0	3:09:59 PM	9/25/2011 15:09	0
28200	0.001	0.001	0.002	0.003	3:10:59 PM	9/25/2011 15:10	0.003
28260	0	0	0	0.001	3:11:59 PM	9/25/2011 15:11	0.001
28320	0	0	0	0.001	3:12:59 PM	9/25/2011 15:12	0.001
28380	0.018	0.019	0.021	0.026	3:13:59 PM	9/25/2011 15:13	0.027
28440	0.037	0.04	0.043	0.053	3:14:59 PM	9/25/2011 15:14	0.055
28500	0.021	0.022	0.025	0.042	3:15:59 PM	9/25/2011 15:15	0.05
28560	0	0	0	0.003	3:16:59 PM	9/25/2011 15:16	0.004
28620	0.013	0.014	0.015	0.021	3:17:59 PM	9/25/2011 15:17	0.024
28680	0.019	0.02	0.021	0.026	3:18:59 PM	9/25/2011 15:18	0.029
28740	0.015	0.016	0.017	0.022	3:19:59 PM	9/25/2011 15:19	0.023
28800	0.025	0.027	0.03	0.042	3:20:59 PM	9/25/2011 15:20	0.043
28860	0.015	0.016	0.016	0.019	3:21:59 PM	9/25/2011 15:21	0.02
28920	0.015	0.015	0.016	0.019	3:22:59 PM	9/25/2011 15:22	0.02
28980	0.015	0.016	0.016	0.019	3:23:59 PM	9/25/2011 15:23	0.019
29040	0.014	0.014	0.015	0.019	3:24:59 PM	9/25/2011 15:24	0.019
29100	0.028	0.03	0.033	0.043	3:25:59 PM	9/25/2011 15:25	0.045

29160	0.022	0.023	0.026	0.033	3:26:59 PM	9/25/2011 15:26	0.035
29220	0.014	0.015	0.015	0.018	3:27:59 PM	9/25/2011 15:27	0.018
29280	0.017	0.018	0.019	0.021	3:28:59 PM	9/25/2011 15:28	0.021
29340	0.03	0.031	0.033	0.037	3:29:59 PM	9/25/2011 15:29	0.037
29400	0.032	0.032	0.033	0.034	3:30:59 PM	9/25/2011 15:30	0.034
29460	0.042	0.042	0.044	0.05	3:31:59 PM	9/25/2011 15:31	0.056
29520	0.023	0.024	0.024	0.027	3:32:59 PM	9/25/2011 15:32	0.028
29580	0.034	0.036	0.041	0.061	3:33:59 PM	9/25/2011 15:33	0.067
29640	0.024	0.025	0.028	0.037	3:34:59 PM	9/25/2011 15:34	0.04
29700	0.026	0.028	0.03	0.039	3:35:59 PM	9/25/2011 15:35	0.04
29760	0.028	0.03	0.033	0.041	3:36:59 PM	9/25/2011 15:36	0.042
29820	0.025	0.026	0.028	0.033	3:37:59 PM	9/25/2011 15:37	0.034
29880	0.024	0.025	0.027	0.031	3:38:59 PM	9/25/2011 15:38	0.032
29940	0.025	0.026	0.028	0.032	3:39:59 PM	9/25/2011 15:39	0.033
30000	0.024	0.025	0.026	0.029	3:40:59 PM	9/25/2011 15:40	0.03
30060	0.024	0.025	0.026	0.03	3:41:59 PM	9/25/2011 15:41	0.031
30120	0.025	0.025	0.026	0.027	3:42:59 PM	9/25/2011 15:42	0.027
30180	0.027	0.028	0.029	0.032	3:43:59 PM	9/25/2011 15:43	0.032
30240	0.026	0.027	0.028	0.03	3:44:59 PM	9/25/2011 15:44	0.031
30300	0.027	0.027	0.028	0.031	3:45:59 PM	9/25/2011 15:45	0.032
30360	0.03	0.03	0.032	0.037	3:46:59 PM	9/25/2011 15:46	0.038
30420	0.041	0.042	0.045	0.059	3:47:59 PM	9/25/2011 15:47	0.064
30480	0.031	0.032	0.034	0.039	3:48:59 PM	9/25/2011 15:48	0.04
30540	0.03	0.03	0.031	0.035	3:49:59 PM	9/25/2011 15:49	0.037
30600	0.027	0.027	0.028	0.029	3:50:59 PM	9/25/2011 15:50	0.03
30660	0.026	0.027	0.027	0.029	3:51:59 PM	9/25/2011 15:51	0.03
30720	0.025	0.026	0.026	0.027	3:52:59 PM	9/25/2011 15:52	0.027
30780	0.052	0.055	0.063	0.097	3:53:59 PM	9/25/2011 15:53	0.107
30840	0.028	0.029	0.03	0.032	3:54:59 PM	9/25/2011 15:54	0.033
30900	0.027	0.028	0.029	0.031	3:55:59 PM	9/25/2011 15:55	0.032
30960	0.026	0.026	0.027	0.028	3:56:59 PM	9/25/2011 15:56	0.028
31020	0.027	0.028	0.028	0.03	3:57:59 PM	9/25/2011 15:57	0.03
31080	0.028	0.029	0.031	0.038	3:58:59 PM	9/25/2011 15:58	0.038
31140	0.045	0.046	0.046	0.048	3:59:59 PM	9/25/2011 15:59	0.048
31200	0.037	0.038	0.04	0.051	4:00:59 PM	9/25/2011 16:00	0.055
31260	0.032	0.033	0.034	0.041	4:01:59 PM	9/25/2011 16:01	0.042
31320	0.035	0.036	0.038	0.046	4:02:59 PM	9/25/2011 16:02	0.047
31380	0.029	0.029	0.03	0.03	4:03:59 PM	9/25/2011 16:03	0.03
31440	0.029	0.029	0.03	0.031	4:04:59 PM	9/25/2011 16:04	0.031
31500	0.03	0.031	0.032	0.033	4:05:59 PM	9/25/2011 16:05	0.034
31560	0.03	0.031	0.032	0.035	4:06:59 PM	9/25/2011 16:06	0.036
31620	0.027	0.028	0.029	0.031	4:07:59 PM	9/25/2011 16:07	0.031
31680	0.028	0.029	0.029	0.031	4:08:59 PM	9/25/2011 16:08	0.032
31740	0.027	0.028	0.029	0.031	4:09:59 PM	9/25/2011 16:09	0.033
31800	0.028	0.029	0.029	0.03	4:10:59 PM	9/25/2011 16:10	0.03
31860	0.026	0.026	0.027	0.027	4:11:59 PM	9/25/2011 16:11	0.027
31920	0.026	0.027	0.027	0.029	4:12:59 PM	9/25/2011 16:12	0.029
31980	0.033	0.035	0.037	0.045	4:13:59 PM	9/25/2011 16:13	0.048
32040	0.034	0.036	0.038	0.045	4:14:59 PM	9/25/2011 16:14	0.045
32100	0.029	0.03	0.032	0.034	4:15:59 PM	9/25/2011 16:15	0.034
32160	0.031	0.033	0.035	0.041	4:16:59 PM	9/25/2011 16:16	0.041
32220	0.029	0.03	0.031	0.034	4:17:59 PM	9/25/2011 16:17	0.035
32280	0.028	0.029	0.03	0.033	4:18:59 PM	9/25/2011 16:18	0.034
32340	0.026	0.027	0.028	0.03	4:19:59 PM	9/25/2011 16:19	0.03
32400	0.026	0.027	0.027	0.029	4:20:59 PM	9/25/2011 16:20	0.029
32460	0.035	0.035	0.036	0.041	4:21:59 PM	9/25/2011 16:21	0.046
32520	0.026	0.026	0.027	0.03	4:22:59 PM	9/25/2011 16:22	0.031
32580	0.024	0.024	0.025	0.027	4:23:59 PM	9/25/2011 16:23	0.027
32640	0.023	0.024	0.024	0.025	4:24:59 PM	9/25/2011 16:24	0.025
32700	0.025	0.026	0.026	0.027	4:25:59 PM	9/25/2011 16:25	0.028
32760	0.027	0.027	0.028	0.032	4:26:59 PM	9/25/2011 16:26	0.032
32820	0.027	0.027	0.028	0.029	4:27:59 PM	9/25/2011 16:27	0.029
32880	0.027	0.027	0.028	0.03	4:28:59 PM	9/25/2011 16:28	0.03
32940	0.03	0.03	0.031	0.035	4:29:59 PM	9/25/2011 16:29	0.037
33000	0.03	0.03	0.032	0.037	4:30:59 PM	9/25/2011 16:30	0.039
33060	0.027	0.028	0.029	0.03	4:31:59 PM	9/25/2011 16:31	0.031
33120	0.028	0.028	0.029	0.03	4:32:59 PM	9/25/2011 16:32	0.03
33180	0.03	0.03	0.031	0.035	4:33:59 PM	9/25/2011 16:33	0.035
33240	0.028	0.029	0.03	0.033	4:34:59 PM	9/25/2011 16:34	0.034
33300	0.03	0.03	0.031	0.037	4:35:59 PM	9/25/2011 16:35	0.038
33360	0.026	0.026	0.027	0.028	4:36:59 PM	9/25/2011 16:36	0.028
33420	0.027	0.027	0.028	0.029	4:37:59 PM	9/25/2011 16:37	0.029
33480	0.03	0.031	0.031	0.032	4:38:59 PM	9/25/2011 16:38	0.033
33540	0.029	0.029	0.03	0.031	4:39:59 PM	9/25/2011 16:39	0.031
33600	0.029	0.03	0.031	0.036	4:40:59 PM	9/25/2011 16:40	0.037
33660	0.03	0.031	0.032	0.038	4:41:59 PM	9/25/2011 16:41	0.04
33720	0.028	0.029	0.029	0.031	4:42:59 PM	9/25/2011 16:42	0.031
33780	0.029	0.029	0.03	0.03	4:43:59 PM	9/25/2011 16:43	0.03
33840	0.027	0.028	0.028	0.029	4:44:59 PM	9/25/2011 16:44	0.029
33900	0.032	0.033	0.034	0.039	4:45:59 PM	9/25/2011 16:45	0.041
33960	0.031	0.032	0.032	0.034	4:46:59 PM	9/25/2011 16:46	0.034
34020	0.029	0.03	0.03	0.031	4:47:59 PM	9/25/2011 16:47	0.031
34080	0.031	0.032	0.032	0.034	4:48:59 PM	9/25/2011 16:48	0.034
34140	0.029	0.03	0.03	0.031	4:49:59 PM	9/25/2011 16:49	0.032
34200	0.029	0.029	0.03	0.031	4:50:59 PM	9/25/2011 16:50	0.032
34260	0.027	0.028	0.028	0.029	4:51:59 PM	9/25/2011 16:51	0.029
34320	0.027	0.028	0.028	0.029	4:52:59 PM	9/25/2011 16:52	0.029

34380	0.027	0.028	0.028	0.029	4:53:59 PM	9/25/2011 16:53	0.029
34440	0.029	0.03	0.03	0.031	4:54:59 PM	9/25/2011 16:54	0.031
34500	0.027	0.027	0.028	0.028	4:55:59 PM	9/25/2011 16:55	0.028
34560	0.027	0.027	0.028	0.028	4:56:59 PM	9/25/2011 16:56	0.028
34620	0.029	0.029	0.03	0.031	4:57:59 PM	9/25/2011 16:57	0.031
34680	0.028	0.028	0.029	0.031	4:58:59 PM	9/25/2011 16:58	0.031
34740	0.027	0.028	0.028	0.029	4:59:59 PM	9/25/2011 16:59	0.03
34800	0.028	0.029	0.029	0.031	5:00:59 PM	9/25/2011 17:00	0.031
34860	0.03	0.03	0.031	0.033	5:01:59 PM	9/25/2011 17:01	0.034
34920	0.026	0.027	0.027	0.029	5:02:59 PM	9/25/2011 17:02	0.03
34980	0.025	0.025	0.026	0.026	5:03:59 PM	9/25/2011 17:03	0.026
35040	0.026	0.026	0.026	0.027	5:04:59 PM	9/25/2011 17:04	0.027
35100	0.027	0.027	0.028	0.028	5:05:59 PM	9/25/2011 17:05	0.028
35160	0.031	0.032	0.033	0.036	5:06:59 PM	9/25/2011 17:06	0.037
35220	0.082	0.083	0.084	0.097	5:07:59 PM	9/25/2011 17:07	0.111
35280	0.026	0.026	0.027	0.027	5:08:59 PM	9/25/2011 17:08	0.027
35340	0.027	0.027	0.028	0.029	5:09:59 PM	9/25/2011 17:09	0.03
35400	0.029	0.029	0.03	0.035	5:10:59 PM	9/25/2011 17:10	0.036
35460	0.026	0.026	0.027	0.028	5:11:59 PM	9/25/2011 17:11	0.028
35520	0.026	0.027	0.027	0.028	5:12:59 PM	9/25/2011 17:12	0.028
35580	0.032	0.033	0.034	0.042	5:13:59 PM	9/25/2011 17:13	0.046
35640	0.026	0.027	0.027	0.027	5:14:59 PM	9/25/2011 17:14	0.027
35700	0.028	0.029	0.03	0.032	5:15:59 PM	9/25/2011 17:15	0.033
35760	0.028	0.029	0.03	0.033	5:16:59 PM	9/25/2011 17:16	0.035
35820	0.027	0.027	0.028	0.029	5:17:59 PM	9/25/2011 17:17	0.03
35880	0.025	0.026	0.026	0.026	5:18:59 PM	9/25/2011 17:18	0.026
35940	0.026	0.026	0.026	0.027	5:19:59 PM	9/25/2011 17:19	0.027
36000	0.026	0.026	0.026	0.027	5:20:59 PM	9/25/2011 17:20	0.027
36060	0.026	0.027	0.027	0.028	5:21:59 PM	9/25/2011 17:21	0.028
36120	0.028	0.028	0.029	0.029	5:22:59 PM	9/25/2011 17:22	0.029
36180	0.054	0.056	0.058	0.08	5:23:59 PM	9/25/2011 17:23	0.092
36240	0.034	0.035	0.038	0.051	5:24:59 PM	9/25/2011 17:24	0.054
36300	0.027	0.027	0.028	0.03	5:25:59 PM	9/25/2011 17:25	0.031
36360	0.03	0.03	0.031	0.031	5:26:59 PM	9/25/2011 17:26	0.032
36420	0.024	0.025	0.025	0.026	5:27:59 PM	9/25/2011 17:27	0.026
36480	0.026	0.026	0.027	0.029	5:28:59 PM	9/25/2011 17:28	0.029
36540	0.027	0.028	0.028	0.031	5:29:59 PM	9/25/2011 17:29	0.031
36600	0.026	0.026	0.027	0.028	5:30:59 PM	9/25/2011 17:30	0.028
36660	0.03	0.031	0.032	0.036	5:31:59 PM	9/25/2011 17:31	0.038
36720	0.027	0.027	0.028	0.03	5:32:59 PM	9/25/2011 17:32	0.031
36780	0.026	0.027	0.027	0.028	5:33:59 PM	9/25/2011 17:33	0.028
36840	0.026	0.027	0.027	0.028	5:34:59 PM	9/25/2011 17:34	0.028
36900	0.026	0.026	0.026	0.027	5:35:59 PM	9/25/2011 17:35	0.027
36960	0.025	0.026	0.026	0.027	5:36:59 PM	9/25/2011 17:36	0.027
37020	0.027	0.028	0.028	0.029	5:37:59 PM	9/25/2011 17:37	0.029
37080	0.027	0.028	0.028	0.029	5:38:59 PM	9/25/2011 17:38	0.029
37140	0.03	0.031	0.031	0.033	5:39:59 PM	9/25/2011 17:39	0.034
37200	0.027	0.027	0.028	0.029	5:40:59 PM	9/25/2011 17:40	0.03
37260	0.026	0.027	0.027	0.028	5:41:59 PM	9/25/2011 17:41	0.028
37320	0.026	0.027	0.027	0.027	5:42:59 PM	9/25/2011 17:42	0.028
37380	0.025	0.025	0.026	0.026	5:43:59 PM	9/25/2011 17:43	0.026
37440	0.028	0.028	0.029	0.032	5:44:59 PM	9/25/2011 17:44	0.032
37500	0.026	0.027	0.027	0.029	5:45:59 PM	9/25/2011 17:45	0.029
37560	0.026	0.026	0.027	0.028	5:46:59 PM	9/25/2011 17:46	0.028
37620	0.025	0.025	0.026	0.026	5:47:59 PM	9/25/2011 17:47	0.026
37680	0.028	0.028	0.029	0.029	5:48:59 PM	9/25/2011 17:48	0.029
37740	0.029	0.029	0.03	0.03	5:49:59 PM	9/25/2011 17:49	0.031
37800	0.028	0.028	0.029	0.03	5:50:59 PM	9/25/2011 17:50	0.03
37860	0.03	0.03	0.031	0.033	5:51:59 PM	9/25/2011 17:51	0.033
37920	0.029	0.03	0.031	0.034	5:52:59 PM	9/25/2011 17:52	0.034
37980	0.031	0.032	0.032	0.035	5:53:59 PM	9/25/2011 17:53	0.035
38040	0.03	0.031	0.031	0.033	5:54:59 PM	9/25/2011 17:54	0.034
38100	0.031	0.032	0.033	0.037	5:55:59 PM	9/25/2011 17:55	0.038
38160	0.028	0.029	0.029	0.031	5:56:59 PM	9/25/2011 17:56	0.032
38220	0.029	0.03	0.03	0.033	5:57:59 PM	9/25/2011 17:57	0.034
38280	0.028	0.028	0.028	0.03	5:58:59 PM	9/25/2011 17:58	0.03
38340	0.028	0.028	0.029	0.03	5:59:59 PM	9/25/2011 17:59	0.03
38400	0.03	0.03	0.031	0.034	6:00:59 PM	9/25/2011 18:00	0.034
38460	0.03	0.03	0.031	0.034	6:01:59 PM	9/25/2011 18:01	0.035
38520	0.03	0.031	0.031	0.033	6:02:59 PM	9/25/2011 18:02	0.034
38580	0.028	0.029	0.029	0.031	6:03:59 PM	9/25/2011 18:03	0.031
38640	0.029	0.03	0.03	0.032	6:04:59 PM	9/25/2011 18:04	0.032
38700	0.03	0.031	0.032	0.034	6:05:59 PM	9/25/2011 18:05	0.035
38760	0.039	0.041	0.043	0.051	6:06:59 PM	9/25/2011 18:06	0.053
38820	0.038	0.039	0.04	0.049	6:07:59 PM	9/25/2011 18:07	0.051
38880	0.03	0.03	0.03	0.031	6:08:59 PM	9/25/2011 18:08	0.031
38940	0.032	0.033	0.034	0.035	6:09:59 PM	9/25/2011 18:09	0.035
39000	0.034	0.035	0.036	0.04	6:10:59 PM	9/25/2011 18:10	0.04
39060	0.032	0.032	0.033	0.033	6:11:59 PM	9/25/2011 18:11	0.033
39120	0.034	0.034	0.035	0.038	6:12:59 PM	9/25/2011 18:12	0.038
39180	0.051	0.052	0.054	0.064	6:13:59 PM	9/25/2011 18:13	0.067
39240	0.037	0.038	0.039	0.043	6:14:59 PM	9/25/2011 18:14	0.045
39300	0.032	0.032	0.033	0.035	6:15:59 PM	9/25/2011 18:15	0.036
39360	0.029	0.029	0.03	0.03	6:16:59 PM	9/25/2011 18:16	0.031
39420	0.033	0.034	0.034	0.037	6:17:59 PM	9/25/2011 18:17	0.038
39480	0.033	0.033	0.034	0.037	6:18:59 PM	9/25/2011 18:18	0.038
39540	0.052	0.054	0.059	0.083	6:19:59 PM	9/25/2011 18:19	0.093

39600	0.04	0.041	0.043	0.053	6:20:59 PM	9/25/2011 18:20	0.055
39660	0.035	0.035	0.037	0.045	6:21:59 PM	9/25/2011 18:21	0.046
39720	0.041	0.042	0.045	0.056	6:22:59 PM	9/25/2011 18:22	0.06
39780	0.042	0.043	0.045	0.053	6:23:59 PM	9/25/2011 18:23	0.055
39840	0.035	0.035	0.036	0.038	6:24:59 PM	9/25/2011 18:24	0.04
39900	0.032	0.032	0.033	0.036	6:25:59 PM	9/25/2011 18:25	0.036
39960	0.034	0.034	0.035	0.041	6:26:59 PM	9/25/2011 18:26	0.043
40020	0.044	0.046	0.049	0.067	6:27:59 PM	9/25/2011 18:27	0.07
40080	0.046	0.047	0.051	0.07	6:28:59 PM	9/25/2011 18:28	0.075
40140	0.047	0.049	0.053	0.073	6:29:59 PM	9/25/2011 18:29	0.078
40200	0.04	0.041	0.044	0.055	6:30:59 PM	9/25/2011 18:30	0.057
40260	0.036	0.036	0.038	0.04	6:31:59 PM	9/25/2011 18:31	0.042
40320	0.031	0.032	0.032	0.033	6:32:59 PM	9/25/2011 18:32	0.033
40380	0.049	0.052	0.056	0.08	6:33:59 PM	9/25/2011 18:33	0.085
40440	0.04	0.041	0.043	0.049	6:34:59 PM	9/25/2011 18:34	0.049
40500	0.036	0.036	0.037	0.039	6:35:59 PM	9/25/2011 18:35	0.04
40560	0.038	0.039	0.039	0.044	6:36:59 PM	9/25/2011 18:36	0.046
40620	0.193	0.206	0.251	0.481	6:37:59 PM	9/25/2011 18:37	0.538
40680	0.078	0.08	0.087	0.123	6:38:59 PM	9/25/2011 18:38	0.139

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_009
Test Start Time	9:34:57
Test Start Date	9/26/2011
Test Length [D:H:M]	0:05:31
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.064
PM1 Minimum [mg/m3]	0.023
PM1 Maximum [mg/m3]	0.211
PM1 TWA [mg/m3]	0.044
PM2.5 Average [mg/m3]	0.066
PM2.5 Minimum [mg/m3]	0.023
PM2.5 Maximum [mg/m3]	0.234
PM2.5 TWA [mg/m3]	0.045
PM4 Average [mg/m3]	0.07
PM4 Minimum [mg/m3]	0.024
PM4 Maximum [mg/m3]	0.293
PM4 TWA [mg/m3]	0.048
PM10 Average [mg/m3]	0.083
PM10 Minimum [mg/m3]	0.025
PM10 Maximum [mg/m3]	0.469
PM10 TWA [mg/m3]	0.058
TOTAL Average [mg/m3]	0.087
TOTAL Minimum [mg/m3]	0.025
TOTAL Maximum [mg/m3]	0.495
TOTAL TWA [mg/m3]	0.06
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	331



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:34:57 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.098	0.101	0.11	0.174	9:35:57 AM	9/26/2011 9:35	0.234		
120	0.061	0.064	0.07	0.093	9:36:57 AM	9/26/2011 9:36	0.098		
180	0.044	0.046	0.05	0.062	9:37:57 AM	9/26/2011 9:37	0.067		
240	0.052	0.054	0.058	0.071	9:38:57 AM	9/26/2011 9:38	0.075		
300	0.062	0.065	0.07	0.087	9:39:57 AM	9/26/2011 9:39	0.092		
360	0.066	0.069	0.077	0.099	9:40:57 AM	9/26/2011 9:40	0.104		
420	0.072	0.076	0.084	0.112	9:41:57 AM	9/26/2011 9:41	0.12		
480	0.073	0.076	0.085	0.117	9:42:57 AM	9/26/2011 9:42	0.123		
540	0.05	0.052	0.056	0.071	9:43:57 AM	9/26/2011 9:43	0.074		
600	0.059	0.062	0.068	0.088	9:44:57 AM	9/26/2011 9:44	0.092		
660	0.051	0.053	0.057	0.072	9:45:57 AM	9/26/2011 9:45	0.081		
720	0.053	0.055	0.06	0.075	9:46:57 AM	9/26/2011 9:46	0.077		
780	0.053	0.056	0.061	0.078	9:47:57 AM	9/26/2011 9:47	0.081		
840	0.054	0.056	0.06	0.079	9:48:57 AM	9/26/2011 9:48	0.083		
900	0.081	0.083	0.09	0.125	9:49:57 AM	9/26/2011 9:49	0.149		
960	0.059	0.062	0.067	0.088	9:50:57 AM	9/26/2011 9:50	0.095		
1020	0.041	0.042	0.045	0.055	9:51:57 AM	9/26/2011 9:51	0.059		
1080	0.043	0.045	0.048	0.06	9:52:57 AM	9/26/2011 9:52	0.062		
1140	0.044	0.045	0.049	0.062	9:53:57 AM	9/26/2011 9:53	0.064		
1200	0.048	0.05	0.056	0.081	9:54:57 AM	9/26/2011 9:54	0.089		
1260	0.082	0.087	0.101	0.159	9:55:57 AM	9/26/2011 9:55	0.177		
1320	0.061	0.064	0.072	0.107	9:56:57 AM	9/26/2011 9:56	0.117		
1380	0.032	0.032	0.034	0.038	9:57:57 AM	9/26/2011 9:57	0.039		
1440	0.035	0.036	0.039	0.049	9:58:57 AM	9/26/2011 9:58	0.05		
1500	0.035	0.036	0.039	0.048	9:59:57 AM	9/26/2011 9:59	0.05		
1560	0.041	0.042	0.044	0.047	10:00:57 AM	9/26/2011 10:00	0.048		
1620	0.064	0.066	0.071	0.087	10:01:57 AM	9/26/2011 10:01	0.093		
1680	0.071	0.073	0.077	0.094	10:02:57 AM	9/26/2011 10:02	0.102		
1740	0.093	0.095	0.101	0.13	10:03:57 AM	9/26/2011 10:03	0.148		
1800	0.061	0.064	0.069	0.087	10:04:57 AM	9/26/2011 10:04	0.093		
1860	0.087	0.09	0.097	0.122	10:05:57 AM	9/26/2011 10:05	0.129		
1920	0.089	0.093	0.101	0.136	10:06:57 AM	9/26/2011 10:06	0.148		
1980	0.085	0.09	0.099	0.135	10:07:57 AM	9/26/2011 10:07	0.144		
2040	0.062	0.065	0.07	0.092	10:08:57 AM	9/26/2011 10:08	0.096		
2100	0.072	0.075	0.08	0.101	10:09:57 AM	9/26/2011 10:09	0.107		
2160	0.068	0.07	0.076	0.095	10:10:57 AM	9/26/2011 10:10	0.102		
2220	0.115	0.12	0.131	0.169	10:11:57 AM	9/26/2011 10:11	0.178		
2280	0.077	0.08	0.087	0.113	10:12:57 AM	9/26/2011 10:12	0.123		
2340	0.062	0.064	0.07	0.088	10:13:57 AM	9/26/2011 10:13	0.093		
2400	0.048	0.051	0.054	0.069	10:14:57 AM	9/26/2011 10:14	0.073		
2460	0.082	0.086	0.092	0.117	10:15:57 AM	9/26/2011 10:15	0.123		
2520	0.06	0.063	0.066	0.079	10:16:57 AM	9/26/2011 10:16	0.081		
2580	0.058	0.061	0.064	0.078	10:17:57 AM	9/26/2011 10:17	0.08		
2640	0.053	0.055	0.058	0.07	10:18:57 AM	9/26/2011 10:18	0.073		
2700	0.063	0.066	0.071	0.088	10:19:57 AM	9/26/2011 10:19	0.095		
2760	0.071	0.075	0.082	0.108	10:20:57 AM	9/26/2011 10:20	0.114		
2820	0.046	0.048	0.052	0.068	10:21:57 AM	9/26/2011 10:21	0.073		
2880	0.056	0.058	0.064	0.086	10:22:57 AM	9/26/2011 10:22	0.092		
2940	0.052	0.054	0.059	0.079	10:23:57 AM	9/26/2011 10:23	0.086		
3000	0.073	0.075	0.081	0.108	10:24:57 AM	9/26/2011 10:24	0.12		

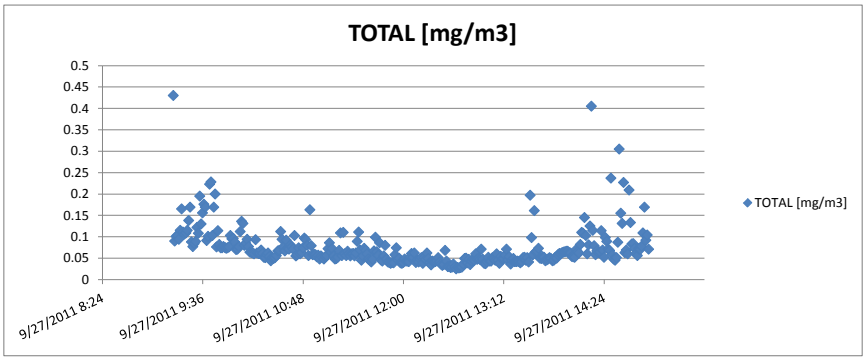
3060	0.051	0.053	0.057	0.075	10:25:57 AM	9/26/2011 10:25	0.081
3120	0.06	0.062	0.066	0.081	10:26:57 AM	9/26/2011 10:26	0.088
3180	0.038	0.039	0.042	0.054	10:27:57 AM	9/26/2011 10:27	0.057
3240	0.046	0.048	0.052	0.066	10:28:57 AM	9/26/2011 10:28	0.07
3300	0.047	0.048	0.051	0.06	10:29:57 AM	9/26/2011 10:29	0.062
3360	0.053	0.055	0.058	0.074	10:30:57 AM	9/26/2011 10:30	0.077
3420	0.103	0.108	0.116	0.137	10:31:57 AM	9/26/2011 10:31	0.146
3480	0.071	0.074	0.079	0.093	10:32:57 AM	9/26/2011 10:32	0.095
3540	0.045	0.047	0.051	0.062	10:33:57 AM	9/26/2011 10:33	0.064
3600	0.03	0.031	0.032	0.036	10:34:57 AM	9/26/2011 10:34	0.037
3660	0.04	0.042	0.046	0.059	10:35:57 AM	9/26/2011 10:35	0.061
3720	0.043	0.046	0.051	0.07	10:36:57 AM	9/26/2011 10:36	0.073
3780	0.043	0.044	0.047	0.056	10:37:57 AM	9/26/2011 10:37	0.061
3840	0.093	0.096	0.103	0.121	10:38:57 AM	9/26/2011 10:38	0.125
3900	0.127	0.131	0.14	0.174	10:39:57 AM	9/26/2011 10:39	0.179
3960	0.062	0.064	0.068	0.081	10:40:57 AM	9/26/2011 10:40	0.086
4020	0.088	0.091	0.098	0.159	10:41:57 AM	9/26/2011 10:41	0.192
4080	0.049	0.051	0.055	0.067	10:42:57 AM	9/26/2011 10:42	0.069
4140	0.098	0.102	0.109	0.134	10:43:57 AM	9/26/2011 10:43	0.139
4200	0.092	0.097	0.109	0.163	10:44:57 AM	9/26/2011 10:44	0.179
4260	0.083	0.088	0.1	0.154	10:45:57 AM	9/26/2011 10:45	0.173
4320	0.054	0.057	0.064	0.096	10:46:57 AM	9/26/2011 10:46	0.107
4380	0.039	0.041	0.044	0.054	10:47:57 AM	9/26/2011 10:47	0.057
4440	0.032	0.034	0.036	0.041	10:48:57 AM	9/26/2011 10:48	0.043
4500	0.045	0.047	0.051	0.067	10:49:57 AM	9/26/2011 10:49	0.074
4560	0.042	0.044	0.048	0.061	10:50:57 AM	9/26/2011 10:50	0.065
4620	0.045	0.047	0.051	0.066	10:51:57 AM	9/26/2011 10:51	0.07
4680	0.035	0.037	0.039	0.049	10:52:57 AM	9/26/2011 10:52	0.051
4740	0.077	0.079	0.084	0.102	10:53:57 AM	9/26/2011 10:53	0.105
4800	0.041	0.043	0.048	0.066	10:54:57 AM	9/26/2011 10:54	0.07
4860	0.046	0.048	0.053	0.071	10:55:57 AM	9/26/2011 10:55	0.076
4920	0.041	0.043	0.047	0.063	10:56:57 AM	9/26/2011 10:56	0.069
4980	0.032	0.034	0.037	0.045	10:57:57 AM	9/26/2011 10:57	0.047
5040	0.041	0.043	0.047	0.062	10:58:57 AM	9/26/2011 10:58	0.064
5100	0.043	0.045	0.049	0.064	10:59:57 AM	9/26/2011 10:59	0.067
5160	0.027	0.028	0.029	0.034	11:00:57 AM	9/26/2011 11:00	0.035
5220	0.023	0.023	0.024	0.025	11:01:57 AM	9/26/2011 11:01	0.025
5280	0.024	0.024	0.025	0.027	11:02:57 AM	9/26/2011 11:02	0.027
5340	0.03	0.031	0.033	0.039	11:03:57 AM	9/26/2011 11:03	0.04
5400	0.037	0.039	0.042	0.053	11:04:57 AM	9/26/2011 11:04	0.055
5460	0.039	0.041	0.045	0.056	11:05:57 AM	9/26/2011 11:05	0.059
5520	0.045	0.047	0.052	0.066	11:06:57 AM	9/26/2011 11:06	0.069
5580	0.042	0.044	0.047	0.056	11:07:57 AM	9/26/2011 11:07	0.057
5640	0.054	0.057	0.064	0.088	11:08:57 AM	9/26/2011 11:08	0.09
5700	0.067	0.072	0.081	0.115	11:09:57 AM	9/26/2011 11:09	0.12
5760	0.087	0.091	0.1	0.134	11:10:57 AM	9/26/2011 11:10	0.143
5820	0.071	0.076	0.087	0.12	11:11:57 AM	9/26/2011 11:11	0.125
5880	0.065	0.069	0.079	0.108	11:12:57 AM	9/26/2011 11:12	0.114
5940	0.052	0.054	0.059	0.076	11:13:57 AM	9/26/2011 11:13	0.08
6000	0.041	0.043	0.046	0.057	11:14:57 AM	9/26/2011 11:14	0.059
6060	0.057	0.06	0.064	0.079	11:15:57 AM	9/26/2011 11:15	0.082
6120	0.032	0.033	0.036	0.041	11:16:57 AM	9/26/2011 11:16	0.041
6180	0.026	0.026	0.028	0.03	11:17:57 AM	9/26/2011 11:17	0.031
6240	0.023	0.023	0.024	0.025	11:18:57 AM	9/26/2011 11:18	0.025
6300	0.023	0.023	0.024	0.025	11:19:57 AM	9/26/2011 11:19	0.025
6360	0.038	0.04	0.045	0.058	11:20:57 AM	9/26/2011 11:20	0.06
6420	0.038	0.04	0.045	0.059	11:21:57 AM	9/26/2011 11:21	0.061
6480	0.078	0.082	0.091	0.13	11:22:57 AM	9/26/2011 11:22	0.143
6540	0.106	0.115	0.137	0.202	11:23:57 AM	9/26/2011 11:23	0.21
6600	0.211	0.234	0.293	0.469	11:24:57 AM	9/26/2011 11:24	0.495
6660	0.051	0.055	0.063	0.086	11:25:57 AM	9/26/2011 11:25	0.09
6720	0.045	0.048	0.054	0.07	11:26:57 AM	9/26/2011 11:26	0.072
6780	0.056	0.059	0.066	0.084	11:27:57 AM	9/26/2011 11:27	0.089
6840	0.04	0.043	0.046	0.057	11:28:57 AM	9/26/2011 11:28	0.059
6900	0.036	0.037	0.039	0.043	11:29:57 AM	9/26/2011 11:29	0.043
6960	0.04	0.041	0.042	0.045	11:30:57 AM	9/26/2011 11:30	0.045
7020	0.05	0.051	0.052	0.055	11:31:57 AM	9/26/2011 11:31	0.055
7080	0.052	0.053	0.054	0.055	11:32:57 AM	9/26/2011 11:32	0.055
7140	0.055	0.055	0.056	0.057	11:33:57 AM	9/26/2011 11:33	0.058
7200	0.071	0.073	0.078	0.089	11:34:57 AM	9/26/2011 11:34	0.092
7260	0.066	0.067	0.07	0.075	11:35:57 AM	9/26/2011 11:35	0.077
7320	0.07	0.072	0.076	0.087	11:36:57 AM	9/26/2011 11:36	0.089
7380	0.064	0.065	0.066	0.071	11:37:57 AM	9/26/2011 11:37	0.072
7440	0.087	0.089	0.094	0.112	11:38:57 AM	9/26/2011 11:38	0.114
7500	0.07	0.071	0.073	0.079	11:39:57 AM	9/26/2011 11:39	0.081
7560	0.079	0.08	0.083	0.094	11:40:57 AM	9/26/2011 11:40	0.096
7620	0.067	0.069	0.071	0.078	11:41:57 AM	9/26/2011 11:41	0.079
7680	0.088	0.092	0.1	0.122	11:42:57 AM	9/26/2011 11:42	0.128
7740	0.077	0.078	0.082	0.089	11:43:57 AM	9/26/2011 11:43	0.092
7800	0.069	0.07	0.072	0.078	11:44:57 AM	9/26/2011 11:44	0.078
7860	0.081	0.083	0.087	0.101	11:45:57 AM	9/26/2011 11:45	0.107
7920	0.078	0.082	0.088	0.104	11:46:57 AM	9/26/2011 11:46	0.107
7980	0.078	0.081	0.087	0.102	11:47:57 AM	9/26/2011 11:47	0.103
8040	0.076	0.079	0.083	0.095	11:48:57 AM	9/26/2011 11:48	0.096
8100	0.065	0.066	0.068	0.074	11:49:57 AM	9/26/2011 11:49	0.075
8160	0.073	0.075	0.078	0.086	11:50:57 AM	9/26/2011 11:50	0.088
8220	0.083	0.084	0.086	0.091	11:51:57 AM	9/26/2011 11:51	0.092

8280	0.101	0.103	0.109	0.125	11:52:57 AM	9/26/2011 11:52	0.126
8340	0.097	0.098	0.1	0.105	11:53:57 AM	9/26/2011 11:53	0.105
8400	0.062	0.063	0.065	0.068	11:54:57 AM	9/26/2011 11:54	0.068
8460	0.051	0.051	0.052	0.052	11:55:57 AM	9/26/2011 11:55	0.053
8520	0.062	0.063	0.065	0.07	11:56:57 AM	9/26/2011 11:56	0.072
8580	0.076	0.077	0.08	0.09	11:57:57 AM	9/26/2011 11:57	0.094
8640	0.066	0.067	0.07	0.082	11:58:57 AM	9/26/2011 11:58	0.087
8700	0.061	0.062	0.064	0.066	11:59:57 AM	9/26/2011 11:59	0.066
8760	0.06	0.061	0.062	0.065	12:00:57 PM	9/26/2011 12:00	0.066
8820	0.069	0.071	0.075	0.083	12:01:57 PM	9/26/2011 12:01	0.085
8880	0.07	0.071	0.074	0.08	12:02:57 PM	9/26/2011 12:02	0.081
8940	0.068	0.07	0.075	0.084	12:03:57 PM	9/26/2011 12:03	0.085
9000	0.058	0.059	0.06	0.064	12:04:57 PM	9/26/2011 12:04	0.066
9060	0.084	0.087	0.094	0.109	12:05:57 PM	9/26/2011 12:05	0.112
9120	0.079	0.083	0.09	0.108	12:06:57 PM	9/26/2011 12:06	0.11
9180	0.06	0.061	0.063	0.068	12:07:57 PM	9/26/2011 12:07	0.069
9240	0.091	0.096	0.106	0.131	12:08:57 PM	9/26/2011 12:08	0.132
9300	0.058	0.06	0.063	0.069	12:09:57 PM	9/26/2011 12:09	0.069
9360	0.047	0.048	0.049	0.051	12:10:57 PM	9/26/2011 12:10	0.051
9420	0.069	0.071	0.076	0.088	12:11:57 PM	9/26/2011 12:11	0.09
9480	0.056	0.058	0.061	0.069	12:12:57 PM	9/26/2011 12:12	0.07
9540	0.052	0.053	0.054	0.057	12:13:57 PM	9/26/2011 12:13	0.057
9600	0.07	0.072	0.074	0.083	12:14:57 PM	9/26/2011 12:14	0.086
9660	0.071	0.072	0.075	0.08	12:15:57 PM	9/26/2011 12:15	0.08
9720	0.064	0.066	0.067	0.073	12:16:57 PM	9/26/2011 12:16	0.074
9780	0.066	0.067	0.069	0.073	12:17:57 PM	9/26/2011 12:17	0.074
9840	0.07	0.071	0.072	0.075	12:18:57 PM	9/26/2011 12:18	0.076
9900	0.087	0.088	0.089	0.097	12:19:57 PM	9/26/2011 12:19	0.103
9960	0.08	0.081	0.082	0.083	12:20:57 PM	9/26/2011 12:20	0.084
10020	0.079	0.08	0.08	0.081	12:21:57 PM	9/26/2011 12:21	0.082
10080	0.078	0.079	0.08	0.081	12:22:57 PM	9/26/2011 12:22	0.081
10140	0.079	0.079	0.08	0.081	12:23:57 PM	9/26/2011 12:23	0.082
10200	0.089	0.09	0.092	0.096	12:24:57 PM	9/26/2011 12:24	0.097
10260	0.086	0.086	0.087	0.088	12:25:57 PM	9/26/2011 12:25	0.088
10320	0.09	0.091	0.093	0.095	12:26:57 PM	9/26/2011 12:26	0.095
10380	0.09	0.091	0.093	0.096	12:27:57 PM	9/26/2011 12:27	0.096
10440	0.093	0.095	0.098	0.106	12:28:57 PM	9/26/2011 12:28	0.107
10500	0.105	0.108	0.114	0.128	12:29:57 PM	9/26/2011 12:29	0.131
10560	0.105	0.109	0.116	0.135	12:30:57 PM	9/26/2011 12:30	0.138
10620	0.119	0.124	0.136	0.168	12:31:57 PM	9/26/2011 12:31	0.171
10680	0.107	0.11	0.116	0.13	12:32:57 PM	9/26/2011 12:32	0.131
10740	0.133	0.135	0.141	0.155	12:33:57 PM	9/26/2011 12:33	0.157
10800	0.09	0.092	0.095	0.102	12:34:57 PM	9/26/2011 12:34	0.103
10860	0.086	0.087	0.09	0.093	12:35:57 PM	9/26/2011 12:35	0.094
10920	0.094	0.096	0.101	0.115	12:36:57 PM	9/26/2011 12:36	0.117
10980	0.091	0.092	0.095	0.105	12:37:57 PM	9/26/2011 12:37	0.111
11040	0.081	0.084	0.088	0.099	12:38:57 PM	9/26/2011 12:38	0.1
11100	0.082	0.084	0.088	0.096	12:39:57 PM	9/26/2011 12:39	0.098
11160	0.063	0.064	0.066	0.069	12:40:57 PM	9/26/2011 12:40	0.069
11220	0.061	0.062	0.063	0.064	12:41:57 PM	9/26/2011 12:41	0.064
11280	0.063	0.064	0.065	0.066	12:42:57 PM	9/26/2011 12:42	0.066
11340	0.089	0.091	0.095	0.105	12:43:57 PM	9/26/2011 12:43	0.106
11400	0.084	0.085	0.089	0.094	12:44:57 PM	9/26/2011 12:44	0.094
11460	0.092	0.093	0.095	0.098	12:45:57 PM	9/26/2011 12:45	0.098
11520	0.075	0.076	0.077	0.081	12:46:57 PM	9/26/2011 12:46	0.082
11580	0.064	0.064	0.065	0.067	12:47:57 PM	9/26/2011 12:47	0.067
11640	0.063	0.064	0.065	0.066	12:48:57 PM	9/26/2011 12:48	0.066
11700	0.067	0.068	0.069	0.071	12:49:57 PM	9/26/2011 12:49	0.072
11760	0.067	0.068	0.07	0.072	12:50:57 PM	9/26/2011 12:50	0.073
11820	0.075	0.076	0.078	0.084	12:51:57 PM	9/26/2011 12:51	0.085
11880	0.106	0.107	0.11	0.14	12:52:57 PM	9/26/2011 12:52	0.156
11940	0.069	0.071	0.075	0.082	12:53:57 PM	9/26/2011 12:53	0.084
12000	0.059	0.06	0.061	0.063	12:54:57 PM	9/26/2011 12:54	0.063
12060	0.062	0.063	0.064	0.065	12:55:57 PM	9/26/2011 12:55	0.065
12120	0.072	0.074	0.075	0.08	12:56:57 PM	9/26/2011 12:56	0.081
12180	0.073	0.074	0.076	0.081	12:57:57 PM	9/26/2011 12:57	0.082
12240	0.063	0.064	0.065	0.066	12:58:57 PM	9/26/2011 12:58	0.066
12300	0.062	0.063	0.063	0.064	12:59:57 PM	9/26/2011 12:59	0.064
12360	0.066	0.066	0.067	0.069	1:00:57 PM	9/26/2011 13:00	0.069
12420	0.07	0.071	0.072	0.075	1:01:57 PM	9/26/2011 13:01	0.075
12480	0.068	0.068	0.069	0.07	1:02:57 PM	9/26/2011 13:02	0.07
12540	0.072	0.073	0.073	0.074	1:03:57 PM	9/26/2011 13:03	0.074
12600	0.078	0.079	0.079	0.081	1:04:57 PM	9/26/2011 13:04	0.082
12660	0.09	0.091	0.095	0.106	1:05:57 PM	9/26/2011 13:05	0.112
12720	0.09	0.092	0.098	0.111	1:06:57 PM	9/26/2011 13:06	0.113
12780	0.105	0.109	0.116	0.136	1:07:57 PM	9/26/2011 13:07	0.14
12840	0.085	0.086	0.088	0.092	1:08:57 PM	9/26/2011 13:08	0.092
12900	0.116	0.12	0.129	0.151	1:09:57 PM	9/26/2011 13:09	0.155
12960	0.084	0.086	0.091	0.099	1:10:57 PM	9/26/2011 13:10	0.1
13020	0.079	0.081	0.084	0.092	1:11:57 PM	9/26/2011 13:11	0.094
13080	0.078	0.08	0.082	0.087	1:12:57 PM	9/26/2011 13:12	0.088
13140	0.076	0.077	0.079	0.084	1:13:57 PM	9/26/2011 13:13	0.085
13200	0.104	0.107	0.114	0.142	1:14:57 PM	9/26/2011 13:14	0.146
13260	0.1	0.102	0.109	0.129	1:15:57 PM	9/26/2011 13:15	0.131
13320	0.079	0.08	0.084	0.094	1:16:57 PM	9/26/2011 13:16	0.095
13380	0.08	0.082	0.085	0.095	1:17:57 PM	9/26/2011 13:17	0.096
13440	0.092	0.095	0.104	0.132	1:18:57 PM	9/26/2011 13:18	0.136

13500	0.068	0.068	0.07	0.074	1:19:57 PM	9/26/2011 13:19	0.074
13560	0.064	0.064	0.065	0.067	1:20:57 PM	9/26/2011 13:20	0.067
13620	0.067	0.068	0.07	0.076	1:21:57 PM	9/26/2011 13:21	0.077
13680	0.071	0.072	0.074	0.077	1:22:57 PM	9/26/2011 13:22	0.078
13740	0.067	0.068	0.069	0.071	1:23:57 PM	9/26/2011 13:23	0.072
13800	0.079	0.081	0.084	0.095	1:24:57 PM	9/26/2011 13:24	0.096
13860	0.112	0.116	0.13	0.181	1:25:57 PM	9/26/2011 13:25	0.19
13920	0.068	0.07	0.073	0.083	1:26:57 PM	9/26/2011 13:26	0.084
13980	0.071	0.072	0.076	0.086	1:27:57 PM	9/26/2011 13:27	0.089
14040	0.104	0.109	0.122	0.171	1:28:57 PM	9/26/2011 13:28	0.179
14100	0.102	0.106	0.114	0.138	1:29:57 PM	9/26/2011 13:29	0.143
14160	0.056	0.057	0.058	0.062	1:30:57 PM	9/26/2011 13:30	0.063
14220	0.051	0.051	0.052	0.054	1:31:57 PM	9/26/2011 13:31	0.054
14280	0.055	0.056	0.057	0.06	1:32:57 PM	9/26/2011 13:32	0.061
14340	0.053	0.053	0.055	0.058	1:33:57 PM	9/26/2011 13:33	0.059
14400	0.055	0.056	0.058	0.064	1:34:57 PM	9/26/2011 13:34	0.065
14460	0.046	0.047	0.047	0.049	1:35:57 PM	9/26/2011 13:35	0.049
14520	0.06	0.062	0.066	0.075	1:36:57 PM	9/26/2011 13:36	0.076
14580	0.081	0.084	0.091	0.114	1:37:57 PM	9/26/2011 13:37	0.115
14640	0.072	0.075	0.082	0.103	1:38:57 PM	9/26/2011 13:38	0.106
14700	0.068	0.07	0.074	0.083	1:39:57 PM	9/26/2011 13:39	0.083
14760	0.057	0.057	0.058	0.06	1:40:57 PM	9/26/2011 13:40	0.061
14820	0.047	0.047	0.048	0.049	1:41:57 PM	9/26/2011 13:41	0.049
14880	0.044	0.044	0.045	0.048	1:42:57 PM	9/26/2011 13:42	0.048
14940	0.044	0.045	0.045	0.046	1:43:57 PM	9/26/2011 13:43	0.046
15000	0.049	0.049	0.05	0.051	1:44:57 PM	9/26/2011 13:44	0.051
15060	0.087	0.091	0.101	0.14	1:45:57 PM	9/26/2011 13:45	0.147
15120	0.08	0.082	0.087	0.108	1:46:57 PM	9/26/2011 13:46	0.117
15180	0.046	0.047	0.048	0.049	1:47:57 PM	9/26/2011 13:47	0.049
15240	0.043	0.044	0.044	0.045	1:48:57 PM	9/26/2011 13:48	0.045
15300	0.049	0.05	0.051	0.054	1:49:57 PM	9/26/2011 13:49	0.054
15360	0.057	0.058	0.061	0.067	1:50:57 PM	9/26/2011 13:50	0.068
15420	0.048	0.049	0.051	0.055	1:51:57 PM	9/26/2011 13:51	0.055
15480	0.052	0.053	0.055	0.06	1:52:57 PM	9/26/2011 13:52	0.06
15540	0.055	0.056	0.059	0.065	1:53:57 PM	9/26/2011 13:53	0.066
15600	0.05	0.051	0.052	0.057	1:54:57 PM	9/26/2011 13:54	0.057
15660	0.047	0.047	0.047	0.049	1:55:57 PM	9/26/2011 13:55	0.049
15720	0.062	0.063	0.066	0.073	1:56:57 PM	9/26/2011 13:56	0.074
15780	0.128	0.132	0.145	0.193	1:57:57 PM	9/26/2011 13:57	0.203
15840	0.075	0.078	0.082	0.093	1:58:57 PM	9/26/2011 13:58	0.095
15900	0.062	0.064	0.069	0.081	1:59:57 PM	9/26/2011 13:59	0.083
15960	0.061	0.062	0.065	0.073	2:00:57 PM	9/26/2011 14:00	0.074
16020	0.046	0.047	0.048	0.049	2:01:57 PM	9/26/2011 14:01	0.05
16080	0.047	0.047	0.048	0.051	2:02:57 PM	9/26/2011 14:02	0.051
16140	0.163	0.175	0.212	0.34	2:03:57 PM	9/26/2011 14:03	0.355
16200	0.1	0.107	0.124	0.175	2:04:57 PM	9/26/2011 14:04	0.186
16260	0.061	0.064	0.07	0.087	2:05:57 PM	9/26/2011 14:05	0.089
16320	0.059	0.061	0.065	0.077	2:06:57 PM	9/26/2011 14:06	0.079
16380	0.049	0.05	0.051	0.054	2:07:57 PM	9/26/2011 14:07	0.055
16440	0.041	0.041	0.043	0.045	2:08:57 PM	9/26/2011 14:08	0.046
16500	0.04	0.041	0.041	0.043	2:09:57 PM	9/26/2011 14:09	0.043
16560	0.036	0.037	0.037	0.039	2:10:57 PM	9/26/2011 14:10	0.039
16620	0.045	0.047	0.049	0.056	2:11:57 PM	9/26/2011 14:11	0.056
16680	0.06	0.061	0.063	0.079	2:12:57 PM	9/26/2011 14:12	0.085
16740	0.04	0.041	0.043	0.046	2:13:57 PM	9/26/2011 14:13	0.046
16800	0.044	0.045	0.047	0.051	2:14:57 PM	9/26/2011 14:14	0.052
16860	0.044	0.045	0.047	0.054	2:15:57 PM	9/26/2011 14:15	0.054
16920	0.056	0.058	0.063	0.076	2:16:57 PM	9/26/2011 14:16	0.078
16980	0.048	0.049	0.052	0.059	2:17:57 PM	9/26/2011 14:17	0.061
17040	0.042	0.043	0.044	0.05	2:18:57 PM	9/26/2011 14:18	0.052
17100	0.045	0.046	0.047	0.048	2:19:57 PM	9/26/2011 14:19	0.048
17160	0.048	0.049	0.049	0.051	2:20:57 PM	9/26/2011 14:20	0.051
17220	0.056	0.056	0.058	0.06	2:21:57 PM	9/26/2011 14:21	0.061
17280	0.042	0.043	0.043	0.045	2:22:57 PM	9/26/2011 14:22	0.046
17340	0.05	0.051	0.052	0.055	2:23:57 PM	9/26/2011 14:23	0.055
17400	0.049	0.05	0.051	0.052	2:24:57 PM	9/26/2011 14:24	0.052
17460	0.051	0.052	0.054	0.061	2:25:57 PM	9/26/2011 14:25	0.064
17520	0.06	0.061	0.064	0.074	2:26:57 PM	9/26/2011 14:26	0.076
17580	0.048	0.049	0.051	0.058	2:27:57 PM	9/26/2011 14:27	0.06
17640	0.049	0.05	0.051	0.054	2:28:57 PM	9/26/2011 14:28	0.055
17700	0.045	0.045	0.047	0.05	2:29:57 PM	9/26/2011 14:29	0.05
17760	0.049	0.05	0.051	0.058	2:30:57 PM	9/26/2011 14:30	0.058
17820	0.085	0.088	0.094	0.114	2:31:57 PM	9/26/2011 14:31	0.124
17880	0.068	0.071	0.078	0.1	2:32:57 PM	9/26/2011 14:32	0.101
17940	0.051	0.053	0.057	0.072	2:33:57 PM	9/26/2011 14:33	0.074
18000	0.04	0.041	0.043	0.047	2:34:57 PM	9/26/2011 14:34	0.049
18060	0.035	0.035	0.036	0.039	2:35:57 PM	9/26/2011 14:35	0.039
18120	0.048	0.048	0.05	0.055	2:36:57 PM	9/26/2011 14:36	0.056
18180	0.049	0.05	0.051	0.055	2:37:57 PM	9/26/2011 14:37	0.056
18240	0.039	0.04	0.042	0.045	2:38:57 PM	9/26/2011 14:38	0.046
18300	0.042	0.043	0.044	0.048	2:39:57 PM	9/26/2011 14:39	0.049
18360	0.054	0.056	0.061	0.074	2:40:57 PM	9/26/2011 14:40	0.076
18420	0.048	0.05	0.053	0.061	2:41:57 PM	9/26/2011 14:41	0.061
18480	0.035	0.036	0.038	0.044	2:42:57 PM	9/26/2011 14:42	0.045
18540	0.038	0.039	0.041	0.049	2:43:57 PM	9/26/2011 14:43	0.05
18600	0.048	0.049	0.053	0.062	2:44:57 PM	9/26/2011 14:44	0.063
18660	0.045	0.046	0.05	0.059	2:45:57 PM	9/26/2011 14:45	0.059

18720	0.039	0.04	0.044	0.052	2:46:57 PM	9/26/2011 14:46	0.053
18780	0.03	0.031	0.033	0.037	2:47:57 PM	9/26/2011 14:47	0.037
18840	0.051	0.054	0.061	0.086	2:48:57 PM	9/26/2011 14:48	0.091
18900	0.046	0.048	0.054	0.071	2:49:57 PM	9/26/2011 14:49	0.074
18960	0.075	0.079	0.087	0.118	2:50:57 PM	9/26/2011 14:50	0.121
19020	0.059	0.061	0.064	0.086	2:51:57 PM	9/26/2011 14:51	0.098
19080	0.038	0.039	0.041	0.048	2:52:57 PM	9/26/2011 14:52	0.048
19140	0.04	0.041	0.043	0.05	2:53:57 PM	9/26/2011 14:53	0.05
19200	0.038	0.038	0.04	0.044	2:54:57 PM	9/26/2011 14:54	0.044
19260	0.037	0.037	0.039	0.042	2:55:57 PM	9/26/2011 14:55	0.042
19320	0.05	0.053	0.06	0.079	2:56:57 PM	9/26/2011 14:56	0.081
19380	0.056	0.059	0.067	0.092	2:57:57 PM	9/26/2011 14:57	0.095
19440	0.036	0.036	0.038	0.041	2:58:57 PM	9/26/2011 14:58	0.041
19500	0.031	0.031	0.032	0.034	2:59:57 PM	9/26/2011 14:59	0.035
19560	0.031	0.032	0.034	0.039	3:00:57 PM	9/26/2011 15:00	0.042
19620	0.053	0.055	0.062	0.089	3:01:57 PM	9/26/2011 15:01	0.093
19680	0.076	0.081	0.094	0.134	3:02:57 PM	9/26/2011 15:02	0.141
19740	0.105	0.113	0.135	0.208	3:03:57 PM	9/26/2011 15:03	0.216
19800	0.059	0.063	0.072	0.106	3:04:57 PM	9/26/2011 15:04	0.111
19860	0.045	0.047	0.051	0.065	3:05:57 PM	9/26/2011 15:05	0.067

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_001
Test Start Time	9:13:54
Test Start Date	9/27/2011
Test Length [D:H:M]	0:05:42
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.059
PM1 Minimum [mg/m3]	0.024
PM1 Maximum [mg/m3]	0.255
PM1 TWA [mg/m3]	0.042
PM2.5 Average [mg/m3]	0.061
PM2.5 Minimum [mg/m3]	0.024
PM2.5 Maximum [mg/m3]	0.263
PM2.5 TWA [mg/m3]	0.043
PM4 Average [mg/m3]	0.063
PM4 Minimum [mg/m3]	0.024
PM4 Maximum [mg/m3]	0.284
PM4 TWA [mg/m3]	0.045
PM10 Average [mg/m3]	0.072
PM10 Minimum [mg/m3]	0.025
PM10 Maximum [mg/m3]	0.378
PM10 TWA [mg/m3]	0.051
TOTAL Average [mg/m3]	0.073
TOTAL Minimum [mg/m3]	0.025
TOTAL Maximum [mg/m3]	0.43
TOTAL TWA [mg/m3]	0.052
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	342



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:13:54 AM	Date/Time	TOTAL [mg/m3]	Alarms	Errors
60	0.255	0.263	0.284	0.372	9:14:54 AM	9/27/2011 9:14	0.43		
120	0.081	0.082	0.084	0.088	9:15:54 AM	9/27/2011 9:15	0.09		
180	0.09	0.092	0.094	0.101	9:16:54 AM	9/27/2011 9:16	0.101		
240	0.092	0.094	0.096	0.101	9:17:54 AM	9/27/2011 9:17	0.103		
300	0.082	0.083	0.085	0.093	9:18:54 AM	9/27/2011 9:18	0.094		
360	0.101	0.103	0.105	0.112	9:19:54 AM	9/27/2011 9:19	0.115		
420	0.132	0.136	0.143	0.163	9:20:54 AM	9/27/2011 9:20	0.165		
480	0.094	0.096	0.1	0.108	9:21:54 AM	9/27/2011 9:21	0.111		
540	0.087	0.089	0.093	0.103	9:22:54 AM	9/27/2011 9:22	0.106		
600	0.091	0.093	0.097	0.106	9:23:54 AM	9/27/2011 9:23	0.109		
660	0.098	0.1	0.104	0.113	9:24:54 AM	9/27/2011 9:24	0.115		
720	0.116	0.119	0.124	0.137	9:25:54 AM	9/27/2011 9:25	0.138		
780	0.124	0.128	0.135	0.159	9:26:54 AM	9/27/2011 9:26	0.169		
840	0.079	0.08	0.082	0.086	9:27:54 AM	9/27/2011 9:27	0.088		
900	0.073	0.073	0.074	0.076	9:28:54 AM	9/27/2011 9:28	0.077		
960	0.075	0.076	0.078	0.083	9:29:54 AM	9/27/2011 9:29	0.084		
1020	0.077	0.078	0.081	0.088	9:30:54 AM	9/27/2011 9:30	0.089		
1080	0.097	0.1	0.105	0.12	9:31:54 AM	9/27/2011 9:31	0.122		
1140	0.09	0.092	0.095	0.105	9:32:54 AM	9/27/2011 9:32	0.108		
1200	0.119	0.124	0.136	0.185	9:33:54 AM	9/27/2011 9:33	0.195		
1260	0.09	0.094	0.101	0.124	9:34:54 AM	9/27/2011 9:34	0.13		
1320	0.102	0.106	0.116	0.148	9:35:54 AM	9/27/2011 9:35	0.156		
1380	0.118	0.123	0.134	0.17	9:36:54 AM	9/27/2011 9:36	0.176		
1440	0.111	0.117	0.128	0.162	9:37:54 AM	9/27/2011 9:37	0.169		
1500	0.075	0.077	0.08	0.088	9:38:54 AM	9/27/2011 9:38	0.091		
1560	0.08	0.082	0.087	0.099	9:39:54 AM	9/27/2011 9:39	0.101		
1620	0.132	0.141	0.159	0.211	9:40:54 AM	9/27/2011 9:40	0.223		
1680	0.137	0.147	0.165	0.214	9:41:54 AM	9/27/2011 9:41	0.228		
1740	0.083	0.085	0.089	0.1	9:42:54 AM	9/27/2011 9:42	0.103		
1800	0.123	0.127	0.137	0.165	9:43:54 AM	9/27/2011 9:43	0.169		
1860	0.115	0.121	0.136	0.187	9:44:54 AM	9/27/2011 9:44	0.2		
1920	0.07	0.071	0.072	0.076	9:45:54 AM	9/27/2011 9:45	0.076		
1980	0.091	0.092	0.093	0.104	9:46:54 AM	9/27/2011 9:46	0.114		
2040	0.075	0.076	0.078	0.081	9:47:54 AM	9/27/2011 9:47	0.082		
2100	0.071	0.071	0.072	0.074	9:48:54 AM	9/27/2011 9:48	0.074		
2160	0.072	0.073	0.073	0.074	9:49:54 AM	9/27/2011 9:49	0.074		
2220	0.073	0.074	0.075	0.077	9:50:54 AM	9/27/2011 9:50	0.077		
2280	0.071	0.072	0.073	0.075	9:51:54 AM	9/27/2011 9:51	0.075		
2340	0.07	0.071	0.071	0.072	9:52:54 AM	9/27/2011 9:52	0.073		
2400	0.07	0.07	0.071	0.073	9:53:54 AM	9/27/2011 9:53	0.074		
2460	0.072	0.073	0.074	0.076	9:54:54 AM	9/27/2011 9:54	0.076		
2520	0.086	0.088	0.091	0.101	9:55:54 AM	9/27/2011 9:55	0.103		
2580	0.084	0.085	0.088	0.094	9:56:54 AM	9/27/2011 9:56	0.095		
2640	0.084	0.085	0.088	0.095	9:57:54 AM	9/27/2011 9:57	0.096		
2700	0.077	0.077	0.078	0.084	9:58:54 AM	9/27/2011 9:58	0.088		
2760	0.068	0.069	0.069	0.07	9:59:54 AM	9/27/2011 9:59	0.07		
2820	0.068	0.068	0.069	0.071	10:00:54 AM	9/27/2011 10:00	0.071		
2880	0.07	0.071	0.073	0.076	10:01:54 AM	9/27/2011 10:01	0.077		
2940	0.089	0.092	0.096	0.109	10:02:54 AM	9/27/2011 10:02	0.112		
3000	0.106	0.109	0.115	0.131	10:03:54 AM	9/27/2011 10:03	0.136		

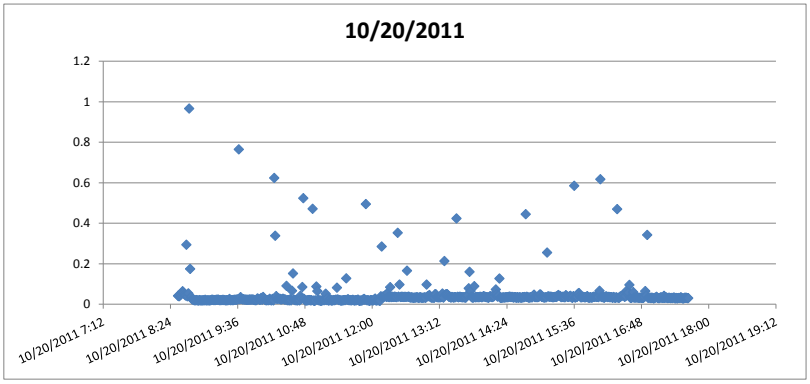
3060	0.103	0.106	0.112	0.128	10:04:54 AM	9/27/2011 10:04	0.131
3120	0.072	0.073	0.075	0.079	10:05:54 AM	9/27/2011 10:05	0.08
3180	0.077	0.078	0.08	0.083	10:06:54 AM	9/27/2011 10:06	0.085
3240	0.086	0.087	0.089	0.094	10:07:54 AM	9/27/2011 10:07	0.094
3300	0.069	0.07	0.071	0.077	10:08:54 AM	9/27/2011 10:08	0.077
3360	0.06	0.061	0.062	0.064	10:09:54 AM	9/27/2011 10:09	0.064
3420	0.059	0.06	0.06	0.062	10:10:54 AM	9/27/2011 10:10	0.063
3480	0.059	0.06	0.061	0.062	10:11:54 AM	9/27/2011 10:11	0.062
3540	0.058	0.058	0.058	0.06	10:12:54 AM	9/27/2011 10:12	0.06
3600	0.075	0.076	0.077	0.087	10:13:54 AM	9/27/2011 10:13	0.093
3660	0.059	0.059	0.06	0.062	10:14:54 AM	9/27/2011 10:14	0.062
3720	0.059	0.059	0.06	0.061	10:15:54 AM	9/27/2011 10:15	0.061
3780	0.058	0.059	0.06	0.061	10:16:54 AM	9/27/2011 10:16	0.061
3840	0.06	0.061	0.062	0.067	10:17:54 AM	9/27/2011 10:17	0.069
3900	0.056	0.057	0.058	0.06	10:18:54 AM	9/27/2011 10:18	0.061
3960	0.046	0.047	0.048	0.051	10:19:54 AM	9/27/2011 10:19	0.052
4020	0.048	0.049	0.05	0.051	10:20:54 AM	9/27/2011 10:20	0.051
4080	0.049	0.05	0.051	0.056	10:21:54 AM	9/27/2011 10:21	0.058
4140	0.055	0.056	0.058	0.062	10:22:54 AM	9/27/2011 10:22	0.062
4200	0.048	0.048	0.05	0.053	10:23:54 AM	9/27/2011 10:23	0.054
4260	0.042	0.043	0.043	0.044	10:24:54 AM	9/27/2011 10:24	0.044
4320	0.048	0.048	0.049	0.05	10:25:54 AM	9/27/2011 10:25	0.051
4380	0.046	0.047	0.047	0.048	10:26:54 AM	9/27/2011 10:26	0.049
4440	0.049	0.05	0.05	0.051	10:27:54 AM	9/27/2011 10:27	0.051
4500	0.052	0.052	0.053	0.056	10:28:54 AM	9/27/2011 10:28	0.056
4560	0.058	0.059	0.06	0.066	10:29:54 AM	9/27/2011 10:29	0.067
4620	0.058	0.059	0.061	0.067	10:30:54 AM	9/27/2011 10:30	0.068
4680	0.087	0.089	0.095	0.11	10:31:54 AM	9/27/2011 10:31	0.112
4740	0.079	0.08	0.083	0.093	10:32:54 AM	9/27/2011 10:32	0.094
4800	0.066	0.067	0.069	0.074	10:33:54 AM	9/27/2011 10:33	0.076
4860	0.062	0.063	0.064	0.067	10:34:54 AM	9/27/2011 10:34	0.067
4920	0.079	0.08	0.083	0.09	10:35:54 AM	9/27/2011 10:35	0.092
4980	0.066	0.066	0.068	0.071	10:36:54 AM	9/27/2011 10:36	0.072
5040	0.067	0.067	0.068	0.07	10:37:54 AM	9/27/2011 10:37	0.071
5100	0.074	0.075	0.076	0.08	10:38:54 AM	9/27/2011 10:38	0.081
5160	0.072	0.072	0.073	0.076	10:39:54 AM	9/27/2011 10:39	0.076
5220	0.065	0.066	0.067	0.07	10:40:54 AM	9/27/2011 10:40	0.071
5280	0.084	0.086	0.09	0.099	10:41:54 AM	9/27/2011 10:41	0.103
5340	0.053	0.053	0.054	0.055	10:42:54 AM	9/27/2011 10:42	0.055
5400	0.056	0.056	0.056	0.057	10:43:54 AM	9/27/2011 10:43	0.058
5460	0.067	0.068	0.069	0.072	10:44:54 AM	9/27/2011 10:44	0.074
5520	0.056	0.056	0.057	0.06	10:45:54 AM	9/27/2011 10:45	0.06
5580	0.055	0.056	0.057	0.062	10:46:54 AM	9/27/2011 10:46	0.063
5640	0.06	0.061	0.064	0.072	10:47:54 AM	9/27/2011 10:47	0.074
5700	0.072	0.075	0.079	0.094	10:48:54 AM	9/27/2011 10:48	0.097
5760	0.066	0.068	0.071	0.088	10:49:54 AM	9/27/2011 10:49	0.093
5820	0.064	0.066	0.069	0.079	10:50:54 AM	9/27/2011 10:50	0.08
5880	0.053	0.053	0.054	0.056	10:51:54 AM	9/27/2011 10:51	0.056
5940	0.098	0.105	0.119	0.156	10:52:54 AM	9/27/2011 10:52	0.163
6000	0.065	0.067	0.07	0.078	10:53:54 AM	9/27/2011 10:53	0.079
6060	0.055	0.056	0.056	0.058	10:54:54 AM	9/27/2011 10:54	0.058
6120	0.057	0.057	0.058	0.059	10:55:54 AM	9/27/2011 10:55	0.059
6180	0.056	0.056	0.056	0.058	10:56:54 AM	9/27/2011 10:56	0.058
6240	0.052	0.052	0.053	0.053	10:57:54 AM	9/27/2011 10:57	0.053
6300	0.055	0.055	0.056	0.057	10:58:54 AM	9/27/2011 10:58	0.057
6360	0.046	0.046	0.047	0.048	10:59:54 AM	9/27/2011 10:59	0.048
6420	0.05	0.051	0.052	0.054	11:00:54 AM	9/27/2011 11:00	0.055
6480	0.05	0.051	0.051	0.052	11:01:54 AM	9/27/2011 11:01	0.052
6540	0.046	0.046	0.046	0.047	11:02:54 AM	9/27/2011 11:02	0.048
6600	0.05	0.05	0.051	0.053	11:03:54 AM	9/27/2011 11:03	0.053
6660	0.054	0.054	0.055	0.056	11:04:54 AM	9/27/2011 11:04	0.056
6720	0.061	0.062	0.064	0.071	11:05:54 AM	9/27/2011 11:05	0.072
6780	0.067	0.069	0.073	0.083	11:06:54 AM	9/27/2011 11:06	0.086
6840	0.057	0.058	0.06	0.064	11:07:54 AM	9/27/2011 11:07	0.065
6900	0.061	0.062	0.065	0.072	11:08:54 AM	9/27/2011 11:08	0.072
6960	0.05	0.051	0.052	0.054	11:09:54 AM	9/27/2011 11:09	0.055
7020	0.046	0.046	0.047	0.047	11:10:54 AM	9/27/2011 11:10	0.048
7080	0.047	0.047	0.047	0.048	11:11:54 AM	9/27/2011 11:11	0.049
7140	0.048	0.048	0.049	0.051	11:12:54 AM	9/27/2011 11:12	0.052
7200	0.056	0.057	0.06	0.067	11:13:54 AM	9/27/2011 11:13	0.068
7260	0.07	0.074	0.081	0.106	11:14:54 AM	9/27/2011 11:14	0.109
7320	0.048	0.049	0.051	0.054	11:15:54 AM	9/27/2011 11:15	0.056
7380	0.073	0.077	0.083	0.104	11:16:54 AM	9/27/2011 11:16	0.11
7440	0.052	0.053	0.055	0.059	11:17:54 AM	9/27/2011 11:17	0.06
7500	0.052	0.053	0.054	0.056	11:18:54 AM	9/27/2011 11:18	0.056
7560	0.054	0.055	0.058	0.064	11:19:54 AM	9/27/2011 11:19	0.066
7620	0.054	0.055	0.056	0.06	11:20:54 AM	9/27/2011 11:20	0.061
7680	0.05	0.051	0.052	0.055	11:21:54 AM	9/27/2011 11:21	0.055
7740	0.056	0.057	0.057	0.06	11:22:54 AM	9/27/2011 11:22	0.06
7800	0.057	0.057	0.058	0.061	11:23:54 AM	9/27/2011 11:23	0.061
7860	0.052	0.053	0.053	0.055	11:24:54 AM	9/27/2011 11:24	0.055
7920	0.055	0.056	0.058	0.062	11:25:54 AM	9/27/2011 11:25	0.062
7980	0.067	0.069	0.074	0.088	11:26:54 AM	9/27/2011 11:26	0.089
8040	0.072	0.076	0.084	0.105	11:27:54 AM	9/27/2011 11:27	0.111
8100	0.055	0.057	0.06	0.069	11:28:54 AM	9/27/2011 11:28	0.069
8160	0.041	0.042	0.043	0.044	11:29:54 AM	9/27/2011 11:29	0.045
8220	0.048	0.048	0.05	0.054	11:30:54 AM	9/27/2011 11:30	0.055

8280	0.061	0.062	0.065	0.073	11:31:54 AM	9/27/2011 11:31	0.073
8340	0.053	0.054	0.057	0.066	11:32:54 AM	9/27/2011 11:32	0.068
8400	0.049	0.05	0.052	0.059	11:33:54 AM	9/27/2011 11:33	0.06
8460	0.044	0.044	0.045	0.048	11:34:54 AM	9/27/2011 11:34	0.048
8520	0.041	0.042	0.042	0.044	11:35:54 AM	9/27/2011 11:35	0.045
8580	0.039	0.04	0.04	0.041	11:36:54 AM	9/27/2011 11:36	0.041
8640	0.044	0.044	0.045	0.047	11:37:54 AM	9/27/2011 11:37	0.047
8700	0.058	0.059	0.061	0.067	11:38:54 AM	9/27/2011 11:38	0.067
8760	0.072	0.075	0.08	0.097	11:39:54 AM	9/27/2011 11:39	0.099
8820	0.054	0.055	0.058	0.064	11:40:54 AM	9/27/2011 11:40	0.065
8880	0.049	0.05	0.052	0.056	11:41:54 AM	9/27/2011 11:41	0.057
8940	0.071	0.072	0.074	0.082	11:42:54 AM	9/27/2011 11:42	0.086
9000	0.042	0.042	0.043	0.046	11:43:54 AM	9/27/2011 11:43	0.046
9060	0.039	0.04	0.04	0.042	11:44:54 AM	9/27/2011 11:44	0.043
9120	0.048	0.049	0.05	0.054	11:45:54 AM	9/27/2011 11:45	0.055
9180	0.058	0.06	0.065	0.077	11:46:54 AM	9/27/2011 11:46	0.08
9240	0.043	0.043	0.044	0.048	11:47:54 AM	9/27/2011 11:47	0.048
9300	0.038	0.039	0.039	0.041	11:48:54 AM	9/27/2011 11:48	0.041
9360	0.037	0.038	0.038	0.04	11:49:54 AM	9/27/2011 11:49	0.04
9420	0.035	0.036	0.036	0.038	11:50:54 AM	9/27/2011 11:50	0.038
9480	0.037	0.037	0.038	0.04	11:51:54 AM	9/27/2011 11:51	0.04
9540	0.037	0.037	0.038	0.039	11:52:54 AM	9/27/2011 11:52	0.039
9600	0.05	0.051	0.053	0.058	11:53:54 AM	9/27/2011 11:53	0.058
9660	0.053	0.055	0.06	0.071	11:54:54 AM	9/27/2011 11:54	0.074
9720	0.038	0.039	0.041	0.045	11:55:54 AM	9/27/2011 11:55	0.046
9780	0.041	0.042	0.043	0.047	11:56:54 AM	9/27/2011 11:56	0.05
9840	0.036	0.036	0.036	0.039	11:57:54 AM	9/27/2011 11:57	0.039
9900	0.035	0.036	0.036	0.038	11:58:54 AM	9/27/2011 11:58	0.038
9960	0.037	0.038	0.038	0.04	11:59:54 AM	9/27/2011 11:59	0.04
10020	0.042	0.043	0.044	0.048	12:00:54 PM	9/27/2011 12:00	0.048
10080	0.039	0.039	0.04	0.043	12:01:54 PM	9/27/2011 12:01	0.043
10140	0.039	0.039	0.04	0.043	12:02:54 PM	9/27/2011 12:02	0.043
10200	0.038	0.038	0.039	0.042	12:03:54 PM	9/27/2011 12:03	0.042
10260	0.046	0.046	0.048	0.052	12:04:54 PM	9/27/2011 12:04	0.053
10320	0.055	0.055	0.057	0.06	12:05:54 PM	9/27/2011 12:05	0.061
10380	0.045	0.046	0.048	0.052	12:06:54 PM	9/27/2011 12:06	0.052
10440	0.049	0.05	0.053	0.059	12:07:54 PM	9/27/2011 12:07	0.062
10500	0.035	0.036	0.037	0.04	12:08:54 PM	9/27/2011 12:08	0.04
10560	0.039	0.04	0.042	0.045	12:09:54 PM	9/27/2011 12:09	0.046
10620	0.034	0.035	0.037	0.04	12:10:54 PM	9/27/2011 12:10	0.041
10680	0.039	0.04	0.041	0.047	12:11:54 PM	9/27/2011 12:11	0.048
10740	0.041	0.042	0.045	0.05	12:12:54 PM	9/27/2011 12:12	0.051
10800	0.033	0.034	0.035	0.038	12:13:54 PM	9/27/2011 12:13	0.038
10860	0.042	0.043	0.045	0.051	12:14:54 PM	9/27/2011 12:14	0.051
10920	0.036	0.037	0.039	0.045	12:15:54 PM	9/27/2011 12:15	0.047
10980	0.055	0.056	0.057	0.061	12:16:54 PM	9/27/2011 12:16	0.062
11040	0.04	0.041	0.042	0.048	12:17:54 PM	9/27/2011 12:17	0.049
11100	0.032	0.033	0.034	0.038	12:18:54 PM	9/27/2011 12:18	0.04
11160	0.031	0.032	0.033	0.034	12:19:54 PM	9/27/2011 12:19	0.034
11220	0.036	0.037	0.038	0.042	12:20:54 PM	9/27/2011 12:20	0.043
11280	0.035	0.036	0.037	0.04	12:21:54 PM	9/27/2011 12:21	0.041
11340	0.035	0.036	0.037	0.04	12:22:54 PM	9/27/2011 12:22	0.042
11400	0.036	0.037	0.038	0.042	12:23:54 PM	9/27/2011 12:23	0.044
11460	0.042	0.043	0.045	0.05	12:24:54 PM	9/27/2011 12:24	0.051
11520	0.035	0.036	0.037	0.04	12:25:54 PM	9/27/2011 12:25	0.041
11580	0.033	0.034	0.034	0.036	12:26:54 PM	9/27/2011 12:26	0.036
11640	0.029	0.029	0.03	0.033	12:27:54 PM	9/27/2011 12:27	0.033
11700	0.03	0.03	0.032	0.034	12:28:54 PM	9/27/2011 12:28	0.035
11760	0.044	0.047	0.052	0.066	12:29:54 PM	9/27/2011 12:29	0.068
11820	0.031	0.032	0.035	0.042	12:30:54 PM	9/27/2011 12:30	0.043
11880	0.027	0.028	0.028	0.03	12:31:54 PM	9/27/2011 12:31	0.03
11940	0.028	0.029	0.029	0.03	12:32:54 PM	9/27/2011 12:32	0.03
12000	0.026	0.026	0.026	0.028	12:33:54 PM	9/27/2011 12:33	0.028
12060	0.027	0.027	0.028	0.029	12:34:54 PM	9/27/2011 12:34	0.029
12120	0.032	0.033	0.033	0.036	12:35:54 PM	9/27/2011 12:35	0.036
12180	0.026	0.027	0.027	0.028	12:36:54 PM	9/27/2011 12:36	0.029
12240	0.024	0.024	0.024	0.025	12:37:54 PM	9/27/2011 12:37	0.025
12300	0.026	0.026	0.026	0.027	12:38:54 PM	9/27/2011 12:38	0.028
12360	0.026	0.026	0.026	0.027	12:39:54 PM	9/27/2011 12:39	0.027
12420	0.027	0.027	0.027	0.028	12:40:54 PM	9/27/2011 12:40	0.028
12480	0.027	0.027	0.028	0.028	12:41:54 PM	9/27/2011 12:41	0.029
12540	0.034	0.034	0.035	0.036	12:42:54 PM	9/27/2011 12:42	0.036
12600	0.042	0.042	0.044	0.049	12:43:54 PM	9/27/2011 12:43	0.049
12660	0.04	0.041	0.043	0.049	12:44:54 PM	9/27/2011 12:44	0.05
12720	0.035	0.035	0.036	0.039	12:45:54 PM	9/27/2011 12:45	0.039
12780	0.04	0.041	0.042	0.045	12:46:54 PM	9/27/2011 12:46	0.047
12840	0.032	0.032	0.033	0.034	12:47:54 PM	9/27/2011 12:47	0.035
12900	0.039	0.04	0.04	0.042	12:48:54 PM	9/27/2011 12:48	0.043
12960	0.04	0.041	0.042	0.047	12:49:54 PM	9/27/2011 12:49	0.048
13020	0.036	0.037	0.038	0.045	12:50:54 PM	9/27/2011 12:50	0.045
13080	0.045	0.046	0.049	0.057	12:51:54 PM	9/27/2011 12:51	0.06
13140	0.038	0.039	0.041	0.046	12:52:54 PM	9/27/2011 12:52	0.047
13200	0.044	0.045	0.046	0.049	12:53:54 PM	9/27/2011 12:53	0.049
13260	0.041	0.041	0.043	0.046	12:54:54 PM	9/27/2011 12:54	0.047
13320	0.047	0.049	0.052	0.064	12:55:54 PM	9/27/2011 12:55	0.071
13380	0.038	0.039	0.041	0.046	12:56:54 PM	9/27/2011 12:56	0.048
13440	0.035	0.035	0.036	0.038	12:57:54 PM	9/27/2011 12:57	0.038

13500	0.035	0.035	0.036	0.037	12:58:54 PM	9/27/2011 12:58	0.037
13560	0.036	0.037	0.038	0.042	12:59:54 PM	9/27/2011 12:59	0.042
13620	0.04	0.042	0.045	0.051	1:00:54 PM	9/27/2011 13:00	0.052
13680	0.041	0.042	0.042	0.043	1:01:54 PM	9/27/2011 13:01	0.043
13740	0.039	0.04	0.04	0.042	1:02:54 PM	9/27/2011 13:02	0.043
13800	0.045	0.046	0.048	0.051	1:03:54 PM	9/27/2011 13:03	0.051
13860	0.043	0.044	0.045	0.049	1:04:54 PM	9/27/2011 13:04	0.049
13920	0.041	0.041	0.042	0.045	1:05:54 PM	9/27/2011 13:05	0.045
13980	0.05	0.052	0.054	0.059	1:06:54 PM	9/27/2011 13:06	0.06
14040	0.041	0.042	0.043	0.044	1:07:54 PM	9/27/2011 13:07	0.045
14100	0.035	0.035	0.036	0.037	1:08:54 PM	9/27/2011 13:08	0.038
14160	0.043	0.044	0.046	0.053	1:09:54 PM	9/27/2011 13:09	0.054
14220	0.044	0.044	0.045	0.047	1:10:54 PM	9/27/2011 13:10	0.048
14280	0.045	0.046	0.047	0.049	1:11:54 PM	9/27/2011 13:11	0.049
14340	0.047	0.048	0.05	0.057	1:12:54 PM	9/27/2011 13:12	0.057
14400	0.061	0.062	0.064	0.071	1:13:54 PM	9/27/2011 13:13	0.071
14460	0.039	0.039	0.04	0.045	1:14:54 PM	9/27/2011 13:14	0.045
14520	0.045	0.046	0.048	0.053	1:15:54 PM	9/27/2011 13:15	0.053
14580	0.034	0.035	0.035	0.036	1:16:54 PM	9/27/2011 13:16	0.036
14640	0.042	0.043	0.044	0.045	1:17:54 PM	9/27/2011 13:17	0.045
14700	0.045	0.046	0.046	0.049	1:18:54 PM	9/27/2011 13:18	0.049
14760	0.039	0.04	0.04	0.041	1:19:54 PM	9/27/2011 13:19	0.042
14820	0.04	0.04	0.04	0.042	1:20:54 PM	9/27/2011 13:20	0.042
14880	0.041	0.042	0.042	0.043	1:21:54 PM	9/27/2011 13:21	0.043
14940	0.039	0.039	0.04	0.042	1:22:54 PM	9/27/2011 13:22	0.042
15000	0.037	0.038	0.038	0.039	1:23:54 PM	9/27/2011 13:23	0.039
15060	0.04	0.04	0.04	0.042	1:24:54 PM	9/27/2011 13:24	0.042
15120	0.045	0.046	0.047	0.051	1:25:54 PM	9/27/2011 13:25	0.051
15180	0.048	0.049	0.049	0.051	1:26:54 PM	9/27/2011 13:26	0.052
15240	0.043	0.043	0.043	0.045	1:27:54 PM	9/27/2011 13:27	0.045
15300	0.047	0.047	0.048	0.05	1:28:54 PM	9/27/2011 13:28	0.051
15360	0.04	0.04	0.04	0.041	1:29:54 PM	9/27/2011 13:29	0.041
15420	0.125	0.13	0.143	0.189	1:30:54 PM	9/27/2011 13:30	0.197
15480	0.06	0.063	0.07	0.094	1:31:54 PM	9/27/2011 13:31	0.098
15540	0.048	0.049	0.05	0.056	1:32:54 PM	9/27/2011 13:32	0.058
15600	0.097	0.106	0.126	0.158	1:33:54 PM	9/27/2011 13:33	0.161
15660	0.054	0.056	0.059	0.064	1:34:54 PM	9/27/2011 13:34	0.065
15720	0.055	0.056	0.059	0.065	1:35:54 PM	9/27/2011 13:35	0.066
15780	0.059	0.06	0.063	0.072	1:36:54 PM	9/27/2011 13:36	0.073
15840	0.048	0.048	0.049	0.049	1:37:54 PM	9/27/2011 13:37	0.05
15900	0.045	0.045	0.046	0.049	1:38:54 PM	9/27/2011 13:38	0.049
15960	0.049	0.049	0.05	0.052	1:39:54 PM	9/27/2011 13:39	0.053
16020	0.05	0.05	0.051	0.052	1:40:54 PM	9/27/2011 13:40	0.052
16080	0.043	0.043	0.043	0.044	1:41:54 PM	9/27/2011 13:41	0.044
16140	0.045	0.045	0.045	0.046	1:42:54 PM	9/27/2011 13:42	0.046
16200	0.046	0.047	0.047	0.048	1:43:54 PM	9/27/2011 13:43	0.048
16260	0.049	0.05	0.05	0.051	1:44:54 PM	9/27/2011 13:44	0.051
16320	0.047	0.047	0.048	0.049	1:45:54 PM	9/27/2011 13:45	0.049
16380	0.043	0.043	0.044	0.044	1:46:54 PM	9/27/2011 13:46	0.044
16440	0.044	0.044	0.044	0.045	1:47:54 PM	9/27/2011 13:47	0.045
16500	0.048	0.049	0.05	0.051	1:48:54 PM	9/27/2011 13:48	0.052
16560	0.047	0.047	0.048	0.049	1:49:54 PM	9/27/2011 13:49	0.05
16620	0.053	0.053	0.054	0.058	1:50:54 PM	9/27/2011 13:50	0.058
16680	0.059	0.06	0.06	0.061	1:51:54 PM	9/27/2011 13:51	0.061
16740	0.056	0.056	0.057	0.06	1:52:54 PM	9/27/2011 13:52	0.06
16800	0.055	0.056	0.057	0.062	1:53:54 PM	9/27/2011 13:53	0.063
16860	0.055	0.056	0.057	0.062	1:54:54 PM	9/27/2011 13:54	0.064
16920	0.058	0.059	0.06	0.064	1:55:54 PM	9/27/2011 13:55	0.065
16980	0.061	0.061	0.062	0.065	1:56:54 PM	9/27/2011 13:56	0.066
17040	0.054	0.055	0.056	0.065	1:57:54 PM	9/27/2011 13:57	0.066
17100	0.055	0.056	0.058	0.062	1:58:54 PM	9/27/2011 13:58	0.063
17160	0.055	0.055	0.057	0.061	1:59:54 PM	9/27/2011 13:59	0.062
17220	0.049	0.05	0.051	0.054	2:00:54 PM	9/27/2011 14:00	0.054
17280	0.048	0.049	0.05	0.053	2:01:54 PM	9/27/2011 14:01	0.053
17340	0.049	0.049	0.05	0.051	2:02:54 PM	9/27/2011 14:02	0.052
17400	0.06	0.061	0.063	0.069	2:03:54 PM	9/27/2011 14:03	0.07
17460	0.056	0.057	0.059	0.064	2:04:54 PM	9/27/2011 14:04	0.065
17520	0.055	0.056	0.057	0.061	2:05:54 PM	9/27/2011 14:05	0.062
17580	0.067	0.068	0.071	0.081	2:06:54 PM	9/27/2011 14:06	0.082
17640	0.089	0.091	0.095	0.108	2:07:54 PM	9/27/2011 14:07	0.11
17700	0.078	0.081	0.087	0.105	2:08:54 PM	9/27/2011 14:08	0.108
17760	0.103	0.105	0.111	0.134	2:09:54 PM	9/27/2011 14:09	0.145
17820	0.075	0.077	0.082	0.099	2:10:54 PM	9/27/2011 14:10	0.103
17880	0.055	0.056	0.057	0.06	2:11:54 PM	9/27/2011 14:11	0.06
17940	0.066	0.068	0.071	0.079	2:12:54 PM	9/27/2011 14:12	0.081
18000	0.082	0.085	0.093	0.119	2:13:54 PM	9/27/2011 14:13	0.125
18060	0.18	0.193	0.234	0.378	2:14:54 PM	9/27/2011 14:14	0.405
18120	0.079	0.082	0.088	0.11	2:15:54 PM	9/27/2011 14:15	0.115
18180	0.064	0.066	0.068	0.078	2:16:54 PM	9/27/2011 14:16	0.079
18240	0.054	0.054	0.055	0.058	2:17:54 PM	9/27/2011 14:17	0.058
18300	0.057	0.058	0.06	0.066	2:18:54 PM	9/27/2011 14:18	0.067
18360	0.057	0.058	0.059	0.062	2:19:54 PM	9/27/2011 14:19	0.063
18420	0.058	0.059	0.06	0.065	2:20:54 PM	9/27/2011 14:20	0.065
18480	0.079	0.081	0.088	0.111	2:21:54 PM	9/27/2011 14:21	0.114
18540	0.065	0.066	0.067	0.069	2:22:54 PM	9/27/2011 14:22	0.069
18600	0.047	0.048	0.049	0.051	2:23:54 PM	9/27/2011 14:23	0.052
18660	0.068	0.07	0.076	0.094	2:24:54 PM	9/27/2011 14:24	0.098

18720	0.069	0.07	0.074	0.085	2:25:54 PM	9/27/2011 14:25	0.089
18780	0.06	0.061	0.063	0.07	2:26:54 PM	9/27/2011 14:26	0.071
18840	0.061	0.062	0.062	0.067	2:27:54 PM	9/27/2011 14:27	0.068
18900	0.132	0.139	0.159	0.228	2:28:54 PM	9/27/2011 14:28	0.237
18960	0.052	0.053	0.055	0.058	2:29:54 PM	9/27/2011 14:29	0.058
19020	0.046	0.046	0.046	0.048	2:30:54 PM	9/27/2011 14:30	0.048
19080	0.043	0.044	0.044	0.045	2:31:54 PM	9/27/2011 14:31	0.045
19140	0.049	0.049	0.05	0.05	2:32:54 PM	9/27/2011 14:32	0.051
19200	0.064	0.067	0.072	0.085	2:33:54 PM	9/27/2011 14:33	0.087
19260	0.16	0.175	0.208	0.292	2:34:54 PM	9/27/2011 14:34	0.305
19320	0.093	0.1	0.114	0.152	2:35:54 PM	9/27/2011 14:35	0.155
19380	0.08	0.083	0.091	0.126	2:36:54 PM	9/27/2011 14:36	0.131
19440	0.119	0.128	0.151	0.217	2:37:54 PM	9/27/2011 14:37	0.227
19500	0.054	0.055	0.058	0.063	2:38:54 PM	9/27/2011 14:38	0.063
19560	0.06	0.06	0.062	0.067	2:39:54 PM	9/27/2011 14:39	0.069
19620	0.052	0.053	0.054	0.059	2:40:54 PM	9/27/2011 14:40	0.06
19680	0.122	0.133	0.154	0.204	2:41:54 PM	9/27/2011 14:41	0.209
19740	0.085	0.087	0.092	0.126	2:42:54 PM	9/27/2011 14:42	0.133
19800	0.066	0.067	0.07	0.082	2:43:54 PM	9/27/2011 14:43	0.083
19860	0.065	0.067	0.071	0.081	2:44:54 PM	9/27/2011 14:44	0.084
19920	0.059	0.061	0.063	0.072	2:45:54 PM	9/27/2011 14:45	0.073
19980	0.054	0.055	0.057	0.06	2:46:54 PM	9/27/2011 14:46	0.061
20040	0.046	0.047	0.048	0.056	2:47:54 PM	9/27/2011 14:47	0.056
20100	0.057	0.058	0.061	0.069	2:48:54 PM	9/27/2011 14:48	0.072
20160	0.058	0.06	0.062	0.068	2:49:54 PM	9/27/2011 14:49	0.07
20220	0.056	0.058	0.061	0.075	2:50:54 PM	9/27/2011 14:50	0.078
20280	0.07	0.073	0.08	0.105	2:51:54 PM	9/27/2011 14:51	0.109
20340	0.092	0.098	0.112	0.158	2:52:54 PM	9/27/2011 14:52	0.169
20400	0.064	0.067	0.072	0.088	2:53:54 PM	9/27/2011 14:53	0.092
20460	0.071	0.074	0.079	0.1	2:54:54 PM	9/27/2011 14:54	0.104
20520	0.056	0.057	0.059	0.067	2:55:54 PM	9/27/2011 14:55	0.071

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_002
Test Start Time	8:31:11
Test Start Date	10/20/2011
Test Length [D:H:M]	0:09:07
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.038
PM1 Minimum [mg/m3]	0.015
PM1 Maximum [mg/m3]	0.572
PM1 TWA [mg/m3]	0.039
PM2.5 Average [mg/m3]	0.039
PM2.5 Minimum [mg/m3]	0.016
PM2.5 Maximum [mg/m3]	0.574
PM2.5 TWA [mg/m3]	0.04
PM4 Average [mg/m3]	0.04
PM4 Minimum [mg/m3]	0.016
PM4 Maximum [mg/m3]	0.582
PM4 TWA [mg/m3]	0.04
PM10 Average [mg/m3]	0.045
PM10 Minimum [mg/m3]	0.017
PM10 Maximum [mg/m3]	0.677
PM10 TWA [mg/m3]	0.046
TOTAL Average [mg/m3]	0.048
TOTAL Minimum [mg/m3]	0.017
TOTAL Maximum [mg/m3]	0.966
TOTAL TWA [mg/m3]	0.05
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	547



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	8:31:11 AM	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.032	0.034	0.035	0.038	8:32:11 AM	10/20/2011 8:32	0.042		
120	0.032	0.034	0.035	0.038	8:33:11 AM	10/20/2011 8:33	0.039		
180	0.031	0.033	0.035	0.039	8:34:11 AM	10/20/2011 8:34	0.043		
240	0.031	0.033	0.034	0.04	8:35:11 AM	10/20/2011 8:35	0.048		
300	0.032	0.034	0.036	0.044	8:36:11 AM	10/20/2011 8:36	0.056		
360	0.036	0.038	0.04	0.049	8:37:11 AM	10/20/2011 8:37	0.064		
420	0.034	0.036	0.038	0.046	8:38:11 AM	10/20/2011 8:38	0.057		
480	0.033	0.034	0.036	0.042	8:39:11 AM	10/20/2011 8:39	0.05		
540	0.03	0.032	0.033	0.039	8:40:11 AM	10/20/2011 8:40	0.043		
600	0.117	0.12	0.125	0.177	8:41:11 AM	10/20/2011 8:41	0.294		
660	0.029	0.03	0.032	0.036	8:42:11 AM	10/20/2011 8:42	0.039		
720	0.033	0.035	0.037	0.046	8:43:11 AM	10/20/2011 8:43	0.054		
780	0.449	0.452	0.461	0.593	8:44:11 AM	10/20/2011 8:44	0.966		
840	0.163	0.168	0.171	0.174	8:45:11 AM	10/20/2011 8:45	0.175		
900	0.028	0.029	0.031	0.034	8:46:11 AM	10/20/2011 8:46	0.036		
960	0.021	0.022	0.023	0.024	8:47:11 AM	10/20/2011 8:47	0.025		
1020	0.02	0.02	0.021	0.022	8:48:11 AM	10/20/2011 8:48	0.023		
1080	0.018	0.019	0.02	0.021	8:49:11 AM	10/20/2011 8:49	0.021		
1140	0.017	0.018	0.019	0.019	8:50:11 AM	10/20/2011 8:50	0.019		
1200	0.018	0.018	0.019	0.02	8:51:11 AM	10/20/2011 8:51	0.02		
1260	0.018	0.018	0.019	0.021	8:52:11 AM	10/20/2011 8:52	0.021		
1320	0.017	0.017	0.018	0.019	8:53:11 AM	10/20/2011 8:53	0.019		
1380	0.017	0.017	0.018	0.018	8:54:11 AM	10/20/2011 8:54	0.018		
1440	0.019	0.019	0.02	0.02	8:55:11 AM	10/20/2011 8:55	0.021		
1500	0.018	0.018	0.019	0.019	8:56:11 AM	10/20/2011 8:56	0.019		
1560	0.017	0.018	0.018	0.019	8:57:11 AM	10/20/2011 8:57	0.019		
1620	0.017	0.017	0.018	0.018	8:58:11 AM	10/20/2011 8:58	0.019		
1680	0.017	0.018	0.019	0.019	8:59:11 AM	10/20/2011 8:59	0.02		
1740	0.017	0.018	0.018	0.019	9:00:11 AM	10/20/2011 9:00	0.019		
1800	0.018	0.019	0.02	0.021	9:01:11 AM	10/20/2011 9:01	0.022		
1860	0.017	0.018	0.018	0.019	9:02:11 AM	10/20/2011 9:02	0.019		
1920	0.017	0.018	0.019	0.019	9:03:11 AM	10/20/2011 9:03	0.019		
1980	0.018	0.018	0.019	0.02	9:04:11 AM	10/20/2011 9:04	0.02		
2040	0.017	0.018	0.018	0.019	9:05:11 AM	10/20/2011 9:05	0.019		
2100	0.017	0.018	0.018	0.019	9:06:11 AM	10/20/2011 9:06	0.019		
2160	0.018	0.018	0.019	0.02	9:07:11 AM	10/20/2011 9:07	0.02		
2220	0.019	0.019	0.02	0.021	9:08:11 AM	10/20/2011 9:08	0.022		
2280	0.019	0.02	0.02	0.021	9:09:11 AM	10/20/2011 9:09	0.022		
2340	0.019	0.02	0.021	0.021	9:10:11 AM	10/20/2011 9:10	0.021		
2400	0.019	0.02	0.02	0.021	9:11:11 AM	10/20/2011 9:11	0.021		
2460	0.019	0.019	0.02	0.021	9:12:11 AM	10/20/2011 9:12	0.021		
2520	0.019	0.02	0.02	0.021	9:13:11 AM	10/20/2011 9:13	0.022		
2580	0.019	0.02	0.021	0.022	9:14:11 AM	10/20/2011 9:14	0.022		
2640	0.02	0.021	0.021	0.023	9:15:11 AM	10/20/2011 9:15	0.023		
2700	0.019	0.019	0.02	0.021	9:16:11 AM	10/20/2011 9:16	0.021		
2760	0.018	0.019	0.019	0.02	9:17:11 AM	10/20/2011 9:17	0.02		
2820	0.018	0.019	0.019	0.02	9:18:11 AM	10/20/2011 9:18	0.021		
2880	0.018	0.018	0.019	0.02	9:19:11 AM	10/20/2011 9:19	0.021		
2940	0.019	0.02	0.021	0.022	9:20:11 AM	10/20/2011 9:20	0.022		
3000	0.018	0.019	0.02	0.021	9:21:11 AM	10/20/2011 9:21	0.021		
3060	0.018	0.019	0.019	0.021	9:22:11 AM	10/20/2011 9:22	0.021		
3120	0.017	0.018	0.018	0.019	9:23:11 AM	10/20/2011 9:23	0.019		
3180	0.018	0.019	0.019	0.02	9:24:11 AM	10/20/2011 9:24	0.02		
3240	0.018	0.019	0.019	0.02	9:25:11 AM	10/20/2011 9:25	0.02		

3300	0.018	0.019	0.02	0.021	9:26:11 AM	10/20/2011 9:26	0.021
3360	0.024	0.025	0.025	0.026	9:27:11 AM	10/20/2011 9:27	0.026
3420	0.018	0.019	0.02	0.02	9:28:11 AM	10/20/2011 9:28	0.02
3480	0.019	0.019	0.02	0.021	9:29:11 AM	10/20/2011 9:29	0.021
3540	0.019	0.019	0.02	0.021	9:30:11 AM	10/20/2011 9:30	0.021
3600	0.018	0.019	0.019	0.02	9:31:11 AM	10/20/2011 9:31	0.02
3660	0.02	0.02	0.021	0.022	9:32:11 AM	10/20/2011 9:32	0.022
3720	0.02	0.021	0.021	0.022	9:33:11 AM	10/20/2011 9:33	0.022
3780	0.019	0.02	0.021	0.022	9:34:11 AM	10/20/2011 9:34	0.022
3840	0.02	0.021	0.021	0.023	9:35:11 AM	10/20/2011 9:35	0.023
3900	0.021	0.022	0.022	0.024	9:36:11 AM	10/20/2011 9:36	0.024
3960	0.572	0.574	0.582	0.677	9:37:11 AM	10/20/2011 9:37	0.765
4020	0.023	0.023	0.024	0.025	9:38:11 AM	10/20/2011 9:38	0.025
4080	0.032	0.033	0.033	0.035	9:39:11 AM	10/20/2011 9:39	0.035
4140	0.024	0.024	0.025	0.026	9:40:11 AM	10/20/2011 9:40	0.026
4200	0.022	0.022	0.023	0.024	9:41:11 AM	10/20/2011 9:41	0.024
4260	0.022	0.023	0.023	0.025	9:42:11 AM	10/20/2011 9:42	0.025
4320	0.021	0.021	0.022	0.023	9:43:11 AM	10/20/2011 9:43	0.023
4380	0.02	0.021	0.021	0.022	9:44:11 AM	10/20/2011 9:44	0.023
4440	0.02	0.021	0.021	0.022	9:45:11 AM	10/20/2011 9:45	0.022
4500	0.02	0.021	0.021	0.022	9:46:11 AM	10/20/2011 9:46	0.022
4560	0.02	0.02	0.021	0.021	9:47:11 AM	10/20/2011 9:47	0.022
4620	0.02	0.02	0.021	0.022	9:48:11 AM	10/20/2011 9:48	0.022
4680	0.021	0.022	0.022	0.024	9:49:11 AM	10/20/2011 9:49	0.024
4740	0.02	0.021	0.021	0.022	9:50:11 AM	10/20/2011 9:50	0.022
4800	0.021	0.022	0.023	0.023	9:51:11 AM	10/20/2011 9:51	0.024
4860	0.021	0.022	0.022	0.023	9:52:11 AM	10/20/2011 9:52	0.023
4920	0.021	0.021	0.022	0.022	9:53:11 AM	10/20/2011 9:53	0.022
4980	0.019	0.02	0.02	0.021	9:54:11 AM	10/20/2011 9:54	0.021
5040	0.019	0.019	0.02	0.02	9:55:11 AM	10/20/2011 9:55	0.02
5100	0.02	0.02	0.021	0.021	9:56:11 AM	10/20/2011 9:56	0.021
5160	0.027	0.028	0.028	0.029	9:57:11 AM	10/20/2011 9:57	0.029
5220	0.024	0.024	0.025	0.026	9:58:11 AM	10/20/2011 9:58	0.026
5280	0.02	0.021	0.021	0.022	9:59:11 AM	10/20/2011 9:59	0.022
5340	0.02	0.021	0.021	0.022	10:00:11 AM	10/20/2011 10:00	0.022
5400	0.023	0.023	0.024	0.029	10:01:11 AM	10/20/2011 10:01	0.031
5460	0.021	0.021	0.021	0.022	10:02:11 AM	10/20/2011 10:02	0.022
5520	0.034	0.035	0.035	0.036	10:03:11 AM	10/20/2011 10:03	0.036
5580	0.027	0.027	0.028	0.029	10:04:11 AM	10/20/2011 10:04	0.029
5640	0.02	0.02	0.021	0.022	10:05:11 AM	10/20/2011 10:05	0.022
5700	0.018	0.018	0.019	0.02	10:06:11 AM	10/20/2011 10:06	0.02
5760	0.018	0.018	0.019	0.02	10:07:11 AM	10/20/2011 10:07	0.02
5820	0.019	0.02	0.02	0.021	10:08:11 AM	10/20/2011 10:08	0.021
5880	0.019	0.019	0.02	0.02	10:09:11 AM	10/20/2011 10:09	0.02
5940	0.025	0.025	0.026	0.027	10:10:11 AM	10/20/2011 10:10	0.027
6000	0.018	0.019	0.019	0.02	10:11:11 AM	10/20/2011 10:11	0.021
6060	0.017	0.018	0.018	0.019	10:12:11 AM	10/20/2011 10:12	0.019
6120	0.024	0.024	0.025	0.026	10:13:11 AM	10/20/2011 10:13	0.026
6180	0.018	0.018	0.019	0.019	10:14:11 AM	10/20/2011 10:14	0.019
6240	0.439	0.442	0.452	0.56	10:15:11 AM	10/20/2011 10:15	0.624
6300	0.147	0.149	0.158	0.266	10:16:11 AM	10/20/2011 10:16	0.338
6360	0.036	0.037	0.038	0.04	10:17:11 AM	10/20/2011 10:17	0.04
6420	0.023	0.023	0.024	0.025	10:18:11 AM	10/20/2011 10:18	0.026
6480	0.027	0.027	0.027	0.028	10:19:11 AM	10/20/2011 10:19	0.029
6540	0.025	0.026	0.026	0.027	10:20:11 AM	10/20/2011 10:20	0.027
6600	0.023	0.024	0.024	0.026	10:21:11 AM	10/20/2011 10:21	0.027
6660	0.021	0.022	0.022	0.024	10:22:11 AM	10/20/2011 10:22	0.024
6720	0.021	0.022	0.022	0.024	10:23:11 AM	10/20/2011 10:23	0.024
6780	0.022	0.022	0.023	0.025	10:24:11 AM	10/20/2011 10:24	0.027
6840	0.021	0.022	0.023	0.025	10:25:11 AM	10/20/2011 10:25	0.026
6900	0.02	0.021	0.021	0.023	10:26:11 AM	10/20/2011 10:26	0.023
6960	0.02	0.021	0.021	0.023	10:27:11 AM	10/20/2011 10:27	0.023
7020	0.044	0.045	0.047	0.073	10:28:11 AM	10/20/2011 10:28	0.091
7080	0.017	0.018	0.018	0.019	10:29:11 AM	10/20/2011 10:29	0.02
7140	0.017	0.018	0.018	0.02	10:30:11 AM	10/20/2011 10:30	0.021
7200	0.017	0.017	0.017	0.019	10:31:11 AM	10/20/2011 10:31	0.019
7260	0.017	0.017	0.018	0.021	10:32:11 AM	10/20/2011 10:32	0.025
7320	0.018	0.018	0.018	0.019	10:33:11 AM	10/20/2011 10:33	0.019
7380	0.044	0.045	0.046	0.058	10:34:11 AM	10/20/2011 10:34	0.067
7440	0.072	0.073	0.076	0.122	10:35:11 AM	10/20/2011 10:35	0.152
7500	0.019	0.019	0.02	0.021	10:36:11 AM	10/20/2011 10:36	0.023
7560	0.018	0.018	0.019	0.021	10:37:11 AM	10/20/2011 10:37	0.021
7620	0.018	0.018	0.019	0.02	10:38:11 AM	10/20/2011 10:38	0.02
7680	0.017	0.018	0.018	0.019	10:39:11 AM	10/20/2011 10:39	0.02
7740	0.017	0.017	0.018	0.019	10:40:11 AM	10/20/2011 10:40	0.019
7800	0.019	0.02	0.021	0.022	10:41:11 AM	10/20/2011 10:41	0.022
7860	0.017	0.018	0.018	0.019	10:42:11 AM	10/20/2011 10:42	0.019
7920	0.027	0.028	0.031	0.041	10:43:11 AM	10/20/2011 10:43	0.042
7980	0.021	0.021	0.022	0.026	10:44:11 AM	10/20/2011 10:44	0.027
8040	0.047	0.047	0.05	0.072	10:45:11 AM	10/20/2011 10:45	0.085
8100	0.437	0.438	0.444	0.49	10:46:11 AM	10/20/2011 10:46	0.524
8160	0.021	0.022	0.023	0.024	10:47:11 AM	10/20/2011 10:47	0.026
8220	0.018	0.018	0.018	0.019	10:48:11 AM	10/20/2011 10:48	0.019
8280	0.017	0.017	0.018	0.018	10:49:11 AM	10/20/2011 10:49	0.018
8340	0.017	0.018	0.018	0.019	10:50:11 AM	10/20/2011 10:50	0.019
8400	0.017	0.018	0.018	0.019	10:51:11 AM	10/20/2011 10:51	0.02
8460	0.018	0.019	0.019	0.02	10:52:11 AM	10/20/2011 10:52	0.021
8520	0.018	0.019	0.019	0.02	10:53:11 AM	10/20/2011 10:53	0.021
8580	0.017	0.018	0.018	0.019	10:54:11 AM	10/20/2011 10:54	0.019
8640	0.017	0.017	0.018	0.019	10:55:11 AM	10/20/2011 10:55	0.02
8700	0.312	0.314	0.323	0.407	10:56:11 AM	10/20/2011 10:56	0.471

8760	0.016	0.016	0.017	0.017	10:57:11 AM	10/20/2011 10:57	0.018
8820	0.015	0.016	0.016	0.017	10:58:11 AM	10/20/2011 10:58	0.017
8880	0.017	0.018	0.018	0.019	10:59:11 AM	10/20/2011 10:59	0.019
8940	0.056	0.056	0.058	0.076	11:00:11 AM	10/20/2011 11:00	0.088
9000	0.05	0.05	0.051	0.06	11:01:11 AM	10/20/2011 11:01	0.065
9060	0.019	0.019	0.02	0.021	11:02:11 AM	10/20/2011 11:02	0.021
9120	0.017	0.017	0.018	0.019	11:03:11 AM	10/20/2011 11:03	0.019
9180	0.017	0.018	0.018	0.019	11:04:11 AM	10/20/2011 11:04	0.019
9240	0.016	0.016	0.017	0.017	11:05:11 AM	10/20/2011 11:05	0.017
9300	0.017	0.018	0.018	0.018	11:06:11 AM	10/20/2011 11:06	0.018
9360	0.021	0.021	0.021	0.022	11:07:11 AM	10/20/2011 11:07	0.022
9420	0.018	0.018	0.019	0.02	11:08:11 AM	10/20/2011 11:08	0.02
9480	0.018	0.019	0.019	0.02	11:09:11 AM	10/20/2011 11:09	0.021
9540	0.034	0.034	0.036	0.046	11:10:11 AM	10/20/2011 11:10	0.052
9600	0.018	0.019	0.019	0.021	11:11:11 AM	10/20/2011 11:11	0.021
9660	0.022	0.022	0.023	0.027	11:12:11 AM	10/20/2011 11:12	0.03
9720	0.016	0.017	0.017	0.018	11:13:11 AM	10/20/2011 11:13	0.018
9780	0.018	0.018	0.019	0.02	11:14:11 AM	10/20/2011 11:14	0.02
9840	0.022	0.022	0.023	0.024	11:15:11 AM	10/20/2011 11:15	0.024
9900	0.017	0.018	0.018	0.018	11:16:11 AM	10/20/2011 11:16	0.018
9960	0.017	0.017	0.018	0.018	11:17:11 AM	10/20/2011 11:17	0.018
10020	0.019	0.019	0.02	0.021	11:18:11 AM	10/20/2011 11:18	0.021
10080	0.018	0.018	0.019	0.02	11:19:11 AM	10/20/2011 11:19	0.02
10140	0.019	0.019	0.02	0.021	11:20:11 AM	10/20/2011 11:20	0.021
10200	0.02	0.021	0.021	0.023	11:21:11 AM	10/20/2011 11:21	0.023
10260	0.046	0.047	0.049	0.071	11:22:11 AM	10/20/2011 11:22	0.082
10320	0.022	0.022	0.023	0.023	11:23:11 AM	10/20/2011 11:23	0.024
10380	0.019	0.019	0.02	0.02	11:24:11 AM	10/20/2011 11:24	0.021
10440	0.019	0.019	0.02	0.021	11:25:11 AM	10/20/2011 11:25	0.021
10500	0.017	0.017	0.018	0.018	11:26:11 AM	10/20/2011 11:26	0.018
10560	0.016	0.017	0.017	0.018	11:27:11 AM	10/20/2011 11:27	0.018
10620	0.018	0.018	0.018	0.019	11:28:11 AM	10/20/2011 11:28	0.019
10680	0.018	0.018	0.019	0.02	11:29:11 AM	10/20/2011 11:29	0.02
10740	0.018	0.019	0.019	0.02	11:30:11 AM	10/20/2011 11:30	0.021
10800	0.019	0.019	0.02	0.021	11:31:11 AM	10/20/2011 11:31	0.021
10860	0.086	0.087	0.089	0.11	11:32:11 AM	10/20/2011 11:32	0.128
10920	0.02	0.02	0.02	0.022	11:33:11 AM	10/20/2011 11:33	0.022
10980	0.023	0.023	0.024	0.024	11:34:11 AM	10/20/2011 11:34	0.025
11040	0.018	0.018	0.019	0.019	11:35:11 AM	10/20/2011 11:35	0.02
11100	0.019	0.019	0.02	0.021	11:36:11 AM	10/20/2011 11:36	0.021
11160	0.018	0.018	0.018	0.019	11:37:11 AM	10/20/2011 11:37	0.019
11220	0.018	0.018	0.018	0.019	11:38:11 AM	10/20/2011 11:38	0.02
11280	0.019	0.02	0.02	0.022	11:39:11 AM	10/20/2011 11:39	0.022
11340	0.018	0.019	0.019	0.02	11:40:11 AM	10/20/2011 11:40	0.02
11400	0.017	0.018	0.018	0.018	11:41:11 AM	10/20/2011 11:41	0.018
11460	0.018	0.019	0.019	0.02	11:42:11 AM	10/20/2011 11:42	0.02
11520	0.019	0.019	0.02	0.02	11:43:11 AM	10/20/2011 11:43	0.02
11580	0.019	0.019	0.02	0.021	11:44:11 AM	10/20/2011 11:44	0.022
11640	0.019	0.019	0.019	0.021	11:45:11 AM	10/20/2011 11:45	0.022
11700	0.016	0.017	0.017	0.017	11:46:11 AM	10/20/2011 11:46	0.017
11760	0.017	0.017	0.018	0.018	11:47:11 AM	10/20/2011 11:47	0.018
11820	0.017	0.017	0.018	0.018	11:48:11 AM	10/20/2011 11:48	0.018
11880	0.017	0.017	0.018	0.018	11:49:11 AM	10/20/2011 11:49	0.019
11940	0.02	0.02	0.021	0.023	11:50:11 AM	10/20/2011 11:50	0.023
12000	0.023	0.024	0.024	0.026	11:51:11 AM	10/20/2011 11:51	0.026
12060	0.019	0.019	0.02	0.021	11:52:11 AM	10/20/2011 11:52	0.022
12120	0.355	0.357	0.363	0.447	11:53:11 AM	10/20/2011 11:53	0.495
12180	0.018	0.018	0.019	0.02	11:54:11 AM	10/20/2011 11:54	0.02
12240	0.018	0.019	0.019	0.02	11:55:11 AM	10/20/2011 11:55	0.02
12300	0.018	0.018	0.018	0.019	11:56:11 AM	10/20/2011 11:56	0.019
12360	0.016	0.016	0.017	0.017	11:57:11 AM	10/20/2011 11:57	0.017
12420	0.019	0.019	0.02	0.02	11:58:11 AM	10/20/2011 11:58	0.021
12480	0.018	0.019	0.019	0.02	11:59:11 AM	10/20/2011 11:59	0.02
12540	0.017	0.017	0.018	0.019	12:00:11 PM	10/20/2011 12:00	0.019
12600	0.018	0.018	0.018	0.019	12:01:11 PM	10/20/2011 12:01	0.019
12660	0.019	0.019	0.02	0.022	12:02:11 PM	10/20/2011 12:02	0.024
12720	0.02	0.02	0.021	0.026	12:03:11 PM	10/20/2011 12:03	0.028
12780	0.016	0.016	0.017	0.017	12:04:11 PM	10/20/2011 12:04	0.018
12840	0.017	0.017	0.018	0.019	12:05:11 PM	10/20/2011 12:05	0.019
12900	0.018	0.019	0.019	0.021	12:06:11 PM	10/20/2011 12:06	0.022
12960	0.017	0.017	0.018	0.019	12:07:11 PM	10/20/2011 12:07	0.019
13020	0.016	0.016	0.017	0.017	12:08:11 PM	10/20/2011 12:08	0.017
13080	0.029	0.03	0.031	0.038	12:09:11 PM	10/20/2011 12:09	0.039
13140	0.22	0.222	0.227	0.262	12:10:11 PM	10/20/2011 12:10	0.285
13200	0.035	0.036	0.036	0.037	12:11:11 PM	10/20/2011 12:11	0.038
13260	0.036	0.036	0.037	0.038	12:12:11 PM	10/20/2011 12:12	0.038
13320	0.037	0.037	0.038	0.039	12:13:11 PM	10/20/2011 12:13	0.039
13380	0.04	0.04	0.042	0.045	12:14:11 PM	10/20/2011 12:14	0.045
13440	0.034	0.035	0.035	0.036	12:15:11 PM	10/20/2011 12:15	0.036
13500	0.042	0.042	0.043	0.05	12:16:11 PM	10/20/2011 12:16	0.055
13560	0.034	0.035	0.035	0.036	12:17:11 PM	10/20/2011 12:17	0.036
13620	0.033	0.034	0.034	0.035	12:18:11 PM	10/20/2011 12:18	0.035
13680	0.064	0.065	0.066	0.076	12:19:11 PM	10/20/2011 12:19	0.084
13740	0.034	0.034	0.034	0.035	12:20:11 PM	10/20/2011 12:20	0.035
13800	0.035	0.035	0.036	0.037	12:21:11 PM	10/20/2011 12:21	0.038
13860	0.033	0.034	0.034	0.035	12:22:11 PM	10/20/2011 12:22	0.036
13920	0.034	0.034	0.034	0.036	12:23:11 PM	10/20/2011 12:23	0.036
13980	0.035	0.036	0.036	0.037	12:24:11 PM	10/20/2011 12:24	0.038
14040	0.034	0.034	0.035	0.036	12:25:11 PM	10/20/2011 12:25	0.036
14100	0.033	0.034	0.034	0.035	12:26:11 PM	10/20/2011 12:26	0.035
14160	0.273	0.274	0.278	0.32	12:27:11 PM	10/20/2011 12:27	0.353

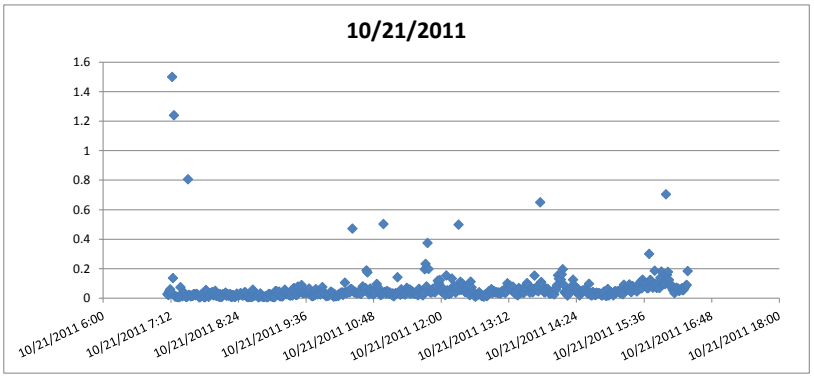
14220	0.036	0.036	0.037	0.038	12:28:11 PM	10/20/2011 12:28	0.038
14280	0.057	0.058	0.06	0.08	12:29:11 PM	10/20/2011 12:29	0.097
14340	0.034	0.035	0.035	0.036	12:30:11 PM	10/20/2011 12:30	0.036
14400	0.035	0.035	0.036	0.037	12:31:11 PM	10/20/2011 12:31	0.037
14460	0.035	0.035	0.036	0.036	12:32:11 PM	10/20/2011 12:32	0.037
14520	0.034	0.035	0.035	0.036	12:33:11 PM	10/20/2011 12:33	0.036
14580	0.034	0.035	0.035	0.036	12:34:11 PM	10/20/2011 12:34	0.036
14640	0.035	0.036	0.036	0.036	12:35:11 PM	10/20/2011 12:35	0.037
14700	0.034	0.034	0.035	0.036	12:36:11 PM	10/20/2011 12:36	0.036
14760	0.093	0.094	0.098	0.14	12:37:11 PM	10/20/2011 12:37	0.166
14820	0.034	0.035	0.035	0.036	12:38:11 PM	10/20/2011 12:38	0.037
14880	0.034	0.034	0.035	0.036	12:39:11 PM	10/20/2011 12:39	0.038
14940	0.032	0.032	0.033	0.034	12:40:11 PM	10/20/2011 12:40	0.034
15000	0.032	0.032	0.032	0.033	12:41:11 PM	10/20/2011 12:41	0.033
15060	0.032	0.032	0.032	0.033	12:42:11 PM	10/20/2011 12:42	0.034
15120	0.032	0.032	0.032	0.033	12:43:11 PM	10/20/2011 12:43	0.033
15180	0.031	0.032	0.032	0.032	12:44:11 PM	10/20/2011 12:44	0.032
15240	0.031	0.031	0.032	0.032	12:45:11 PM	10/20/2011 12:45	0.033
15300	0.031	0.031	0.032	0.032	12:46:11 PM	10/20/2011 12:46	0.033
15360	0.032	0.032	0.032	0.033	12:47:11 PM	10/20/2011 12:47	0.034
15420	0.032	0.032	0.032	0.034	12:48:11 PM	10/20/2011 12:48	0.034
15480	0.031	0.032	0.032	0.032	12:49:11 PM	10/20/2011 12:49	0.032
15540	0.031	0.031	0.032	0.032	12:50:11 PM	10/20/2011 12:50	0.032
15600	0.032	0.032	0.033	0.034	12:51:11 PM	10/20/2011 12:51	0.035
15660	0.031	0.032	0.032	0.033	12:52:11 PM	10/20/2011 12:52	0.033
15720	0.031	0.031	0.032	0.032	12:53:11 PM	10/20/2011 12:53	0.032
15780	0.031	0.031	0.031	0.032	12:54:11 PM	10/20/2011 12:54	0.032
15840	0.031	0.031	0.032	0.032	12:55:11 PM	10/20/2011 12:55	0.033
15900	0.031	0.032	0.032	0.033	12:56:11 PM	10/20/2011 12:56	0.034
15960	0.031	0.031	0.031	0.032	12:57:11 PM	10/20/2011 12:57	0.032
16020	0.067	0.068	0.069	0.085	12:58:11 PM	10/20/2011 12:58	0.097
16080	0.034	0.035	0.036	0.038	12:59:11 PM	10/20/2011 12:59	0.039
16140	0.035	0.035	0.036	0.039	1:00:11 PM	10/20/2011 13:00	0.04
16200	0.035	0.036	0.037	0.043	1:01:11 PM	10/20/2011 13:01	0.046
16260	0.032	0.032	0.033	0.035	1:02:11 PM	10/20/2011 13:02	0.036
16320	0.031	0.032	0.032	0.033	1:03:11 PM	10/20/2011 13:03	0.033
16380	0.031	0.031	0.032	0.032	1:04:11 PM	10/20/2011 13:04	0.033
16440	0.031	0.031	0.032	0.033	1:05:11 PM	10/20/2011 13:05	0.033
16500	0.031	0.031	0.032	0.032	1:06:11 PM	10/20/2011 13:06	0.032
16560	0.039	0.04	0.042	0.048	1:07:11 PM	10/20/2011 13:07	0.05
16620	0.037	0.038	0.039	0.045	1:08:11 PM	10/20/2011 13:08	0.049
16680	0.033	0.033	0.034	0.035	1:09:11 PM	10/20/2011 13:09	0.035
16740	0.032	0.033	0.033	0.033	1:10:11 PM	10/20/2011 13:10	0.034
16800	0.033	0.033	0.034	0.034	1:11:11 PM	10/20/2011 13:11	0.034
16860	0.033	0.033	0.033	0.034	1:12:11 PM	10/20/2011 13:12	0.034
16920	0.033	0.034	0.034	0.034	1:13:11 PM	10/20/2011 13:13	0.034
16980	0.034	0.034	0.035	0.036	1:14:11 PM	10/20/2011 13:14	0.036
17040	0.035	0.035	0.036	0.046	1:15:11 PM	10/20/2011 13:15	0.053
17100	0.032	0.032	0.032	0.033	1:16:11 PM	10/20/2011 13:16	0.033
17160	0.087	0.089	0.096	0.171	1:17:11 PM	10/20/2011 13:17	0.213
17220	0.041	0.041	0.042	0.045	1:18:11 PM	10/20/2011 13:18	0.047
17280	0.041	0.042	0.043	0.048	1:19:11 PM	10/20/2011 13:19	0.05
17340	0.045	0.046	0.047	0.049	1:20:11 PM	10/20/2011 13:20	0.05
17400	0.042	0.042	0.043	0.044	1:21:11 PM	10/20/2011 13:21	0.044
17460	0.034	0.035	0.035	0.036	1:22:11 PM	10/20/2011 13:22	0.037
17520	0.033	0.033	0.034	0.036	1:23:11 PM	10/20/2011 13:23	0.037
17580	0.032	0.032	0.032	0.033	1:24:11 PM	10/20/2011 13:24	0.033
17640	0.034	0.034	0.035	0.036	1:25:11 PM	10/20/2011 13:25	0.036
17700	0.033	0.033	0.034	0.035	1:26:11 PM	10/20/2011 13:26	0.035
17760	0.032	0.032	0.032	0.033	1:27:11 PM	10/20/2011 13:27	0.033
17820	0.033	0.033	0.034	0.035	1:28:11 PM	10/20/2011 13:28	0.035
17880	0.033	0.033	0.033	0.035	1:29:11 PM	10/20/2011 13:29	0.035
17940	0.325	0.327	0.333	0.39	1:30:11 PM	10/20/2011 13:30	0.424
18000	0.034	0.035	0.035	0.036	1:31:11 PM	10/20/2011 13:31	0.037
18060	0.032	0.032	0.032	0.033	1:32:11 PM	10/20/2011 13:32	0.034
18120	0.034	0.034	0.035	0.036	1:33:11 PM	10/20/2011 13:33	0.037
18180	0.033	0.033	0.034	0.035	1:34:11 PM	10/20/2011 13:34	0.037
18240	0.032	0.033	0.033	0.034	1:35:11 PM	10/20/2011 13:35	0.035
18300	0.032	0.032	0.033	0.034	1:36:11 PM	10/20/2011 13:36	0.034
18360	0.032	0.032	0.033	0.034	1:37:11 PM	10/20/2011 13:37	0.034
18420	0.033	0.033	0.033	0.034	1:38:11 PM	10/20/2011 13:38	0.035
18480	0.031	0.031	0.032	0.033	1:39:11 PM	10/20/2011 13:39	0.033
18540	0.031	0.031	0.031	0.033	1:40:11 PM	10/20/2011 13:40	0.033
18600	0.035	0.036	0.037	0.04	1:41:11 PM	10/20/2011 13:41	0.042
18660	0.038	0.038	0.04	0.043	1:42:11 PM	10/20/2011 13:42	0.045
18720	0.05	0.051	0.056	0.074	1:43:11 PM	10/20/2011 13:43	0.079
18780	0.071	0.075	0.086	0.145	1:44:11 PM	10/20/2011 13:44	0.16
18840	0.042	0.043	0.046	0.06	1:45:11 PM	10/20/2011 13:45	0.065
18900	0.033	0.033	0.034	0.037	1:46:11 PM	10/20/2011 13:46	0.037
18960	0.031	0.031	0.032	0.033	1:47:11 PM	10/20/2011 13:47	0.033
19020	0.031	0.032	0.032	0.033	1:48:11 PM	10/20/2011 13:48	0.033
19080	0.062	0.062	0.064	0.078	1:49:11 PM	10/20/2011 13:49	0.089
19140	0.031	0.031	0.032	0.034	1:50:11 PM	10/20/2011 13:50	0.034
19200	0.032	0.032	0.032	0.034	1:51:11 PM	10/20/2011 13:51	0.035
19260	0.032	0.032	0.033	0.034	1:52:11 PM	10/20/2011 13:52	0.035
19320	0.032	0.032	0.033	0.034	1:53:11 PM	10/20/2011 13:53	0.035
19380	0.032	0.032	0.033	0.034	1:54:11 PM	10/20/2011 13:54	0.034
19440	0.034	0.034	0.034	0.036	1:55:11 PM	10/20/2011 13:55	0.037
19500	0.033	0.034	0.035	0.037	1:56:11 PM	10/20/2011 13:56	0.037
19560	0.032	0.032	0.033	0.034	1:57:11 PM	10/20/2011 13:57	0.034
19620	0.033	0.033	0.034	0.035	1:58:11 PM	10/20/2011 13:58	0.036

19680	0.035	0.035	0.036	0.039	1:59:11 PM	10/20/2011 13:59	0.04
19740	0.035	0.035	0.036	0.037	2:00:11 PM	10/20/2011 14:00	0.038
19800	0.033	0.034	0.034	0.036	2:01:11 PM	10/20/2011 14:01	0.036
19860	0.032	0.032	0.033	0.034	2:02:11 PM	10/20/2011 14:02	0.035
19920	0.031	0.032	0.032	0.033	2:03:11 PM	10/20/2011 14:03	0.034
19980	0.031	0.031	0.031	0.032	2:04:11 PM	10/20/2011 14:04	0.032
20040	0.033	0.033	0.034	0.035	2:05:11 PM	10/20/2011 14:05	0.035
20100	0.037	0.037	0.038	0.039	2:06:11 PM	10/20/2011 14:06	0.04
20160	0.034	0.034	0.035	0.036	2:07:11 PM	10/20/2011 14:07	0.037
20220	0.033	0.033	0.034	0.034	2:08:11 PM	10/20/2011 14:08	0.035
20280	0.034	0.034	0.035	0.036	2:09:11 PM	10/20/2011 14:09	0.037
20340	0.036	0.036	0.037	0.039	2:10:11 PM	10/20/2011 14:10	0.039
20400	0.043	0.044	0.045	0.052	2:11:11 PM	10/20/2011 14:11	0.053
20460	0.067	0.067	0.068	0.072	2:12:11 PM	10/20/2011 14:12	0.073
20520	0.042	0.043	0.044	0.047	2:13:11 PM	10/20/2011 14:13	0.05
20580	0.033	0.034	0.034	0.037	2:14:11 PM	10/20/2011 14:14	0.038
20640	0.036	0.036	0.037	0.041	2:15:11 PM	10/20/2011 14:15	0.044
20700	0.08	0.08	0.083	0.107	2:16:11 PM	10/20/2011 14:16	0.127
20760	0.03	0.03	0.031	0.032	2:17:11 PM	10/20/2011 14:17	0.032
20820	0.03	0.031	0.031	0.032	2:18:11 PM	10/20/2011 14:18	0.032
20880	0.031	0.031	0.032	0.033	2:19:11 PM	10/20/2011 14:19	0.033
20940	0.031	0.032	0.032	0.032	2:20:11 PM	10/20/2011 14:20	0.034
21000	0.032	0.032	0.032	0.033	2:21:11 PM	10/20/2011 14:21	0.033
21060	0.032	0.032	0.033	0.034	2:22:11 PM	10/20/2011 14:22	0.034
21120	0.032	0.032	0.033	0.034	2:23:11 PM	10/20/2011 14:23	0.034
21180	0.032	0.033	0.033	0.034	2:24:11 PM	10/20/2011 14:24	0.035
21240	0.032	0.032	0.032	0.033	2:25:11 PM	10/20/2011 14:25	0.034
21300	0.034	0.034	0.035	0.036	2:26:11 PM	10/20/2011 14:26	0.037
21360	0.034	0.034	0.035	0.037	2:27:11 PM	10/20/2011 14:27	0.038
21420	0.032	0.032	0.033	0.035	2:28:11 PM	10/20/2011 14:28	0.036
21480	0.033	0.033	0.033	0.035	2:29:11 PM	10/20/2011 14:29	0.036
21540	0.034	0.034	0.035	0.036	2:30:11 PM	10/20/2011 14:30	0.036
21600	0.031	0.031	0.031	0.032	2:31:11 PM	10/20/2011 14:31	0.033
21660	0.032	0.032	0.033	0.034	2:32:11 PM	10/20/2011 14:32	0.035
21720	0.033	0.033	0.034	0.035	2:33:11 PM	10/20/2011 14:33	0.035
21780	0.031	0.031	0.031	0.032	2:34:11 PM	10/20/2011 14:34	0.032
21840	0.031	0.031	0.032	0.033	2:35:11 PM	10/20/2011 14:35	0.035
21900	0.03	0.03	0.031	0.032	2:36:11 PM	10/20/2011 14:36	0.032
21960	0.031	0.032	0.032	0.034	2:37:11 PM	10/20/2011 14:37	0.034
22020	0.031	0.031	0.032	0.033	2:38:11 PM	10/20/2011 14:38	0.034
22080	0.03	0.03	0.031	0.032	2:39:11 PM	10/20/2011 14:39	0.032
22140	0.031	0.031	0.031	0.033	2:40:11 PM	10/20/2011 14:40	0.033
22200	0.032	0.032	0.033	0.035	2:41:11 PM	10/20/2011 14:41	0.035
22260	0.032	0.032	0.032	0.034	2:42:11 PM	10/20/2011 14:42	0.034
22320	0.032	0.033	0.033	0.036	2:43:11 PM	10/20/2011 14:43	0.036
22380	0.263	0.265	0.274	0.371	2:44:11 PM	10/20/2011 14:44	0.445
22440	0.033	0.033	0.034	0.035	2:45:11 PM	10/20/2011 14:45	0.037
22500	0.032	0.032	0.033	0.035	2:46:11 PM	10/20/2011 14:46	0.036
22560	0.032	0.032	0.032	0.033	2:47:11 PM	10/20/2011 14:47	0.033
22620	0.031	0.031	0.032	0.033	2:48:11 PM	10/20/2011 14:48	0.033
22680	0.032	0.032	0.033	0.034	2:49:11 PM	10/20/2011 14:49	0.034
22740	0.033	0.033	0.034	0.034	2:50:11 PM	10/20/2011 14:50	0.034
22800	0.033	0.033	0.033	0.034	2:51:11 PM	10/20/2011 14:51	0.034
22860	0.037	0.037	0.038	0.041	2:52:11 PM	10/20/2011 14:52	0.041
22920	0.04	0.041	0.042	0.046	2:53:11 PM	10/20/2011 14:53	0.047
22980	0.033	0.033	0.033	0.035	2:54:11 PM	10/20/2011 14:54	0.035
23040	0.033	0.033	0.034	0.036	2:55:11 PM	10/20/2011 14:55	0.036
23100	0.032	0.033	0.033	0.035	2:56:11 PM	10/20/2011 14:56	0.035
23160	0.032	0.033	0.033	0.035	2:57:11 PM	10/20/2011 14:57	0.035
23220	0.033	0.033	0.033	0.036	2:58:11 PM	10/20/2011 14:58	0.037
23280	0.037	0.038	0.039	0.046	2:59:11 PM	10/20/2011 14:59	0.048
23340	0.037	0.038	0.04	0.046	3:00:11 PM	10/20/2011 15:00	0.048
23400	0.034	0.034	0.034	0.036	3:01:11 PM	10/20/2011 15:01	0.037
23460	0.033	0.034	0.034	0.036	3:02:11 PM	10/20/2011 15:02	0.037
23520	0.032	0.032	0.033	0.034	3:03:11 PM	10/20/2011 15:03	0.034
23580	0.031	0.031	0.031	0.033	3:04:11 PM	10/20/2011 15:04	0.033
23640	0.032	0.032	0.032	0.034	3:05:11 PM	10/20/2011 15:05	0.034
23700	0.031	0.031	0.032	0.033	3:06:11 PM	10/20/2011 15:06	0.034
23760	0.082	0.085	0.094	0.197	3:07:11 PM	10/20/2011 15:07	0.255
23820	0.035	0.035	0.036	0.038	3:08:11 PM	10/20/2011 15:08	0.039
23880	0.035	0.035	0.036	0.037	3:09:11 PM	10/20/2011 15:09	0.038
23940	0.033	0.033	0.034	0.036	3:10:11 PM	10/20/2011 15:10	0.037
24000	0.034	0.035	0.035	0.037	3:11:11 PM	10/20/2011 15:11	0.038
24060	0.034	0.034	0.035	0.036	3:12:11 PM	10/20/2011 15:12	0.036
24120	0.032	0.032	0.033	0.034	3:13:11 PM	10/20/2011 15:13	0.034
24180	0.033	0.033	0.034	0.035	3:14:11 PM	10/20/2011 15:14	0.035
24240	0.034	0.035	0.035	0.036	3:15:11 PM	10/20/2011 15:15	0.036
24300	0.035	0.036	0.036	0.037	3:16:11 PM	10/20/2011 15:16	0.037
24360	0.034	0.034	0.035	0.036	3:17:11 PM	10/20/2011 15:17	0.036
24420	0.038	0.039	0.039	0.042	3:18:11 PM	10/20/2011 15:18	0.042
24480	0.039	0.04	0.041	0.045	3:19:11 PM	10/20/2011 15:19	0.046
24540	0.039	0.039	0.04	0.041	3:20:11 PM	10/20/2011 15:20	0.041
24600	0.038	0.038	0.039	0.04	3:21:11 PM	10/20/2011 15:21	0.041
24660	0.033	0.033	0.033	0.035	3:22:11 PM	10/20/2011 15:22	0.035
24720	0.032	0.033	0.033	0.035	3:23:11 PM	10/20/2011 15:23	0.036
24780	0.034	0.034	0.035	0.037	3:24:11 PM	10/20/2011 15:24	0.038
24840	0.033	0.033	0.033	0.035	3:25:11 PM	10/20/2011 15:25	0.035
24900	0.032	0.032	0.032	0.033	3:26:11 PM	10/20/2011 15:26	0.034
24960	0.037	0.037	0.038	0.042	3:27:11 PM	10/20/2011 15:27	0.045
25020	0.035	0.035	0.036	0.038	3:28:11 PM	10/20/2011 15:28	0.039
25080	0.034	0.035	0.035	0.036	3:29:11 PM	10/20/2011 15:29	0.037

25140	0.034	0.034	0.035	0.036	3:30:11 PM	10/20/2011 15:30	0.036
25200	0.035	0.035	0.036	0.037	3:31:11 PM	10/20/2011 15:31	0.039
25260	0.038	0.039	0.039	0.042	3:32:11 PM	10/20/2011 15:32	0.042
25320	0.032	0.032	0.033	0.034	3:33:11 PM	10/20/2011 15:33	0.034
25380	0.031	0.031	0.032	0.032	3:34:11 PM	10/20/2011 15:34	0.032
25440	0.033	0.033	0.034	0.038	3:35:11 PM	10/20/2011 15:35	0.04
25500	0.411	0.413	0.422	0.527	3:36:11 PM	10/20/2011 15:36	0.585
25560	0.031	0.031	0.031	0.033	3:37:11 PM	10/20/2011 15:37	0.033
25620	0.032	0.032	0.033	0.035	3:38:11 PM	10/20/2011 15:38	0.036
25680	0.032	0.032	0.032	0.034	3:39:11 PM	10/20/2011 15:39	0.036
25740	0.039	0.04	0.042	0.051	3:40:11 PM	10/20/2011 15:40	0.052
25800	0.04	0.041	0.043	0.053	3:41:11 PM	10/20/2011 15:41	0.055
25860	0.035	0.035	0.037	0.041	3:42:11 PM	10/20/2011 15:42	0.043
25920	0.032	0.032	0.032	0.033	3:43:11 PM	10/20/2011 15:43	0.034
25980	0.031	0.032	0.032	0.033	3:44:11 PM	10/20/2011 15:44	0.034
26040	0.033	0.033	0.034	0.036	3:45:11 PM	10/20/2011 15:45	0.036
26100	0.033	0.033	0.033	0.035	3:46:11 PM	10/20/2011 15:46	0.036
26160	0.031	0.031	0.032	0.034	3:47:11 PM	10/20/2011 15:47	0.034
26220	0.031	0.032	0.032	0.034	3:48:11 PM	10/20/2011 15:48	0.034
26280	0.033	0.033	0.034	0.036	3:49:11 PM	10/20/2011 15:49	0.037
26340	0.033	0.034	0.035	0.039	3:50:11 PM	10/20/2011 15:50	0.04
26400	0.031	0.032	0.032	0.033	3:51:11 PM	10/20/2011 15:51	0.033
26460	0.03	0.031	0.031	0.032	3:52:11 PM	10/20/2011 15:52	0.032
26520	0.032	0.032	0.033	0.034	3:53:11 PM	10/20/2011 15:53	0.035
26580	0.031	0.031	0.032	0.032	3:54:11 PM	10/20/2011 15:54	0.033
26640	0.031	0.031	0.031	0.032	3:55:11 PM	10/20/2011 15:55	0.033
26700	0.033	0.034	0.034	0.036	3:56:11 PM	10/20/2011 15:56	0.036
26760	0.033	0.033	0.034	0.036	3:57:11 PM	10/20/2011 15:57	0.038
26820	0.033	0.033	0.034	0.036	3:58:11 PM	10/20/2011 15:58	0.036
26880	0.035	0.036	0.036	0.038	3:59:11 PM	10/20/2011 15:59	0.039
26940	0.034	0.034	0.035	0.036	4:00:11 PM	10/20/2011 16:00	0.036
27000	0.033	0.033	0.034	0.036	4:01:11 PM	10/20/2011 16:01	0.037
27060	0.033	0.034	0.034	0.035	4:02:11 PM	10/20/2011 16:02	0.035
27120	0.05	0.051	0.052	0.061	4:03:11 PM	10/20/2011 16:03	0.067
27180	0.445	0.447	0.457	0.563	4:04:11 PM	10/20/2011 16:04	0.617
27240	0.033	0.034	0.034	0.035	4:05:11 PM	10/20/2011 16:05	0.036
27300	0.033	0.033	0.033	0.034	4:06:11 PM	10/20/2011 16:06	0.035
27360	0.034	0.034	0.035	0.036	4:07:11 PM	10/20/2011 16:07	0.036
27420	0.03	0.031	0.031	0.032	4:08:11 PM	10/20/2011 16:08	0.032
27480	0.032	0.033	0.033	0.035	4:09:11 PM	10/20/2011 16:09	0.036
27540	0.034	0.034	0.035	0.037	4:10:11 PM	10/20/2011 16:10	0.039
27600	0.033	0.033	0.034	0.036	4:11:11 PM	10/20/2011 16:11	0.037
27660	0.032	0.032	0.033	0.035	4:12:11 PM	10/20/2011 16:12	0.035
27720	0.033	0.034	0.035	0.037	4:13:11 PM	10/20/2011 16:13	0.037
27780	0.031	0.032	0.032	0.033	4:14:11 PM	10/20/2011 16:14	0.034
27840	0.032	0.033	0.033	0.035	4:15:11 PM	10/20/2011 16:15	0.035
27900	0.032	0.033	0.033	0.034	4:16:11 PM	10/20/2011 16:16	0.035
27960	0.031	0.031	0.031	0.032	4:17:11 PM	10/20/2011 16:17	0.032
28020	0.032	0.033	0.033	0.036	4:18:11 PM	10/20/2011 16:18	0.036
28080	0.03	0.031	0.031	0.033	4:19:11 PM	10/20/2011 16:19	0.033
28140	0.03	0.03	0.03	0.031	4:20:11 PM	10/20/2011 16:20	0.032
28200	0.03	0.031	0.031	0.034	4:21:11 PM	10/20/2011 16:21	0.034
28260	0.355	0.356	0.362	0.426	4:22:11 PM	10/20/2011 16:22	0.47
28320	0.03	0.03	0.031	0.032	4:23:11 PM	10/20/2011 16:23	0.032
28380	0.03	0.03	0.03	0.032	4:24:11 PM	10/20/2011 16:24	0.032
28440	0.034	0.034	0.035	0.037	4:25:11 PM	10/20/2011 16:25	0.038
28500	0.035	0.035	0.036	0.039	4:26:11 PM	10/20/2011 16:26	0.039
28560	0.037	0.038	0.039	0.042	4:27:11 PM	10/20/2011 16:27	0.042
28620	0.037	0.037	0.039	0.045	4:28:11 PM	10/20/2011 16:28	0.046
28680	0.037	0.037	0.039	0.046	4:29:11 PM	10/20/2011 16:29	0.048
28740	0.034	0.034	0.035	0.037	4:30:11 PM	10/20/2011 16:30	0.037
28800	0.034	0.034	0.035	0.039	4:31:11 PM	10/20/2011 16:31	0.04
28860	0.05	0.051	0.053	0.063	4:32:11 PM	10/20/2011 16:32	0.067
28920	0.046	0.046	0.047	0.051	4:33:11 PM	10/20/2011 16:33	0.052
28980	0.047	0.047	0.048	0.055	4:34:11 PM	10/20/2011 16:34	0.058
29040	0.077	0.078	0.079	0.091	4:35:11 PM	10/20/2011 16:35	0.096
29100	0.03	0.03	0.03	0.031	4:36:11 PM	10/20/2011 16:36	0.032
29160	0.03	0.03	0.03	0.031	4:37:11 PM	10/20/2011 16:37	0.031
29220	0.031	0.031	0.032	0.033	4:38:11 PM	10/20/2011 16:38	0.034
29280	0.044	0.044	0.046	0.056	4:39:11 PM	10/20/2011 16:39	0.06
29340	0.031	0.031	0.032	0.033	4:40:11 PM	10/20/2011 16:40	0.033
29400	0.031	0.031	0.031	0.032	4:41:11 PM	10/20/2011 16:41	0.033
29460	0.03	0.03	0.031	0.032	4:42:11 PM	10/20/2011 16:42	0.033
29520	0.031	0.031	0.032	0.033	4:43:11 PM	10/20/2011 16:43	0.034
29580	0.031	0.031	0.031	0.032	4:44:11 PM	10/20/2011 16:44	0.033
29640	0.029	0.03	0.03	0.031	4:45:11 PM	10/20/2011 16:45	0.032
29700	0.029	0.03	0.03	0.031	4:46:11 PM	10/20/2011 16:46	0.032
29760	0.03	0.03	0.031	0.032	4:47:11 PM	10/20/2011 16:47	0.033
29820	0.03	0.03	0.031	0.031	4:48:11 PM	10/20/2011 16:48	0.032
29880	0.03	0.03	0.03	0.031	4:49:11 PM	10/20/2011 16:49	0.031
29940	0.03	0.03	0.031	0.032	4:50:11 PM	10/20/2011 16:50	0.032
30000	0.031	0.032	0.032	0.035	4:51:11 PM	10/20/2011 16:51	0.036
30060	0.042	0.044	0.047	0.062	4:52:11 PM	10/20/2011 16:52	0.065
30120	0.033	0.033	0.035	0.039	4:53:11 PM	10/20/2011 16:53	0.043
30180	0.229	0.23	0.239	0.305	4:54:11 PM	10/20/2011 16:54	0.342
30240	0.03	0.03	0.031	0.032	4:55:11 PM	10/20/2011 16:55	0.032
30300	0.03	0.03	0.031	0.032	4:56:11 PM	10/20/2011 16:56	0.032
30360	0.03	0.031	0.031	0.032	4:57:11 PM	10/20/2011 16:57	0.033
30420	0.029	0.029	0.029	0.03	4:58:11 PM	10/20/2011 16:58	0.03
30480	0.03	0.03	0.031	0.032	4:59:11 PM	10/20/2011 16:59	0.033
30540	0.029	0.029	0.029	0.03	5:00:11 PM	10/20/2011 17:00	0.031

30600	0.028	0.028	0.029	0.029	5:01:11 PM	10/20/2011 17:01	0.029
30660	0.029	0.029	0.03	0.031	5:02:11 PM	10/20/2011 17:02	0.031
30720	0.03	0.03	0.031	0.033	5:03:11 PM	10/20/2011 17:03	0.033
30780	0.032	0.033	0.033	0.035	5:04:11 PM	10/20/2011 17:04	0.037
30840	0.029	0.03	0.03	0.031	5:05:11 PM	10/20/2011 17:05	0.032
30900	0.028	0.028	0.028	0.029	5:06:11 PM	10/20/2011 17:06	0.03
30960	0.028	0.028	0.029	0.029	5:07:11 PM	10/20/2011 17:07	0.03
31020	0.029	0.029	0.03	0.032	5:08:11 PM	10/20/2011 17:08	0.033
31080	0.03	0.03	0.031	0.034	5:09:11 PM	10/20/2011 17:09	0.034
31140	0.029	0.029	0.03	0.031	5:10:11 PM	10/20/2011 17:10	0.031
31200	0.028	0.028	0.029	0.03	5:11:11 PM	10/20/2011 17:11	0.031
31260	0.033	0.034	0.035	0.04	5:12:11 PM	10/20/2011 17:12	0.042
31320	0.029	0.029	0.03	0.031	5:13:11 PM	10/20/2011 17:13	0.031
31380	0.03	0.03	0.031	0.034	5:14:11 PM	10/20/2011 17:14	0.034
31440	0.03	0.03	0.031	0.032	5:15:11 PM	10/20/2011 17:15	0.032
31500	0.028	0.029	0.029	0.03	5:16:11 PM	10/20/2011 17:16	0.03
31560	0.03	0.03	0.03	0.031	5:17:11 PM	10/20/2011 17:17	0.032
31620	0.029	0.03	0.03	0.032	5:18:11 PM	10/20/2011 17:18	0.032
31680	0.028	0.028	0.029	0.03	5:19:11 PM	10/20/2011 17:19	0.03
31740	0.028	0.029	0.029	0.031	5:20:11 PM	10/20/2011 17:20	0.031
31800	0.028	0.028	0.028	0.029	5:21:11 PM	10/20/2011 17:21	0.03
31860	0.029	0.03	0.03	0.033	5:22:11 PM	10/20/2011 17:22	0.033
31920	0.029	0.029	0.03	0.032	5:23:11 PM	10/20/2011 17:23	0.033
31980	0.027	0.028	0.028	0.029	5:24:11 PM	10/20/2011 17:24	0.029
32040	0.028	0.028	0.029	0.03	5:25:11 PM	10/20/2011 17:25	0.031
32100	0.028	0.028	0.028	0.029	5:26:11 PM	10/20/2011 17:26	0.029
32160	0.027	0.028	0.028	0.029	5:27:11 PM	10/20/2011 17:27	0.03
32220	0.028	0.028	0.029	0.03	5:28:11 PM	10/20/2011 17:28	0.031
32280	0.028	0.028	0.029	0.03	5:29:11 PM	10/20/2011 17:29	0.03
32340	0.03	0.03	0.031	0.033	5:30:11 PM	10/20/2011 17:30	0.034
32400	0.028	0.029	0.029	0.03	5:31:11 PM	10/20/2011 17:31	0.031
32460	0.027	0.028	0.028	0.029	5:32:11 PM	10/20/2011 17:32	0.029
32520	0.028	0.028	0.028	0.029	5:33:11 PM	10/20/2011 17:33	0.029
32580	0.028	0.028	0.029	0.031	5:34:11 PM	10/20/2011 17:34	0.032
32640	0.029	0.029	0.03	0.032	5:35:11 PM	10/20/2011 17:35	0.032
32700	0.028	0.028	0.029	0.031	5:36:11 PM	10/20/2011 17:36	0.032
32760	0.028	0.028	0.029	0.03	5:37:11 PM	10/20/2011 17:37	0.03
32820	0.028	0.028	0.028	0.03	5:38:11 PM	10/20/2011 17:38	0.03

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_003
Test Start Time	7:07:31
Test Start Date	10/21/2011
Test Length [D:H:M]	0:09:15
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.035
PM1 Minimum [mg/m3]	0.004
PM1 Maximum [mg/m3]	1.03
PM1 TWA [mg/m3]	0.032
PM2.5 Average [mg/m3]	0.037
PM2.5 Minimum [mg/m3]	0.004
PM2.5 Maximum [mg/m3]	1.03
PM2.5 TWA [mg/m3]	0.034
PM4 Average [mg/m3]	0.041
PM4 Minimum [mg/m3]	0.004
PM4 Maximum [mg/m3]	1.06
PM4 TWA [mg/m3]	0.038
PM10 Average [mg/m3]	0.055
PM10 Minimum [mg/m3]	0.006
PM10 Maximum [mg/m3]	1.33
PM10 TWA [mg/m3]	0.051
TOTAL Average [mg/m3]	0.06
TOTAL Minimum [mg/m3]	0.006
TOTAL Maximum [mg/m3]	1.5
TOTAL TWA [mg/m3]	0.055
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	555



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:07:31	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.009	0.01	0.011	0.019	7:08:31	10/21/2011 7:08	0.028		
120	0.011	0.012	0.013	0.017	7:09:31	10/21/2011 7:09	0.022		
180	0.018	0.019	0.021	0.034	7:10:31	10/21/2011 7:10	0.047		
240	0.02	0.021	0.023	0.037	7:11:31	10/21/2011 7:11	0.06		
300	0.018	0.02	0.021	0.032	7:12:31	10/21/2011 7:12	0.042		
360	1.03	1.03	1.06	1.33	7:13:31	10/21/2011 7:13	1.5		
420	0.097	0.097	0.1	0.122	7:14:31	10/21/2011 7:14	0.137		
480	0.856	0.86	0.879	1.09	7:15:31	10/21/2011 7:15	1.24		
540	0.008	0.008	0.009	0.012	7:16:31	10/21/2011 7:16	0.013		
600	0.008	0.009	0.009	0.011	7:17:31	10/21/2011 7:17	0.011		
660	0.009	0.009	0.01	0.011	7:18:31	10/21/2011 7:18	0.011		
720	0.007	0.007	0.007	0.008	7:19:31	10/21/2011 7:19	0.008		
780	0.006	0.006	0.006	0.007	7:20:31	10/21/2011 7:20	0.007		
840	0.006	0.006	0.007	0.009	7:21:31	10/21/2011 7:21	0.009		
900	0.046	0.047	0.051	0.073	7:22:31	10/21/2011 7:22	0.075		
960	0.011	0.012	0.013	0.017	7:23:31	10/21/2011 7:23	0.019		
1020	0.008	0.008	0.009	0.013	7:24:31	10/21/2011 7:24	0.013		
1080	0.022	0.023	0.027	0.039	7:25:31	10/21/2011 7:25	0.043		
1140	0.017	0.018	0.02	0.028	7:26:31	10/21/2011 7:26	0.031		
1200	0.009	0.01	0.011	0.015	7:27:31	10/21/2011 7:27	0.016		
1260	0.006	0.007	0.007	0.009	7:28:31	10/21/2011 7:28	0.009		
1320	0.006	0.007	0.007	0.01	7:29:31	10/21/2011 7:29	0.011		
1380	0.578	0.581	0.593	0.716	7:30:31	10/21/2011 7:30	0.806		
1440	0.014	0.015	0.017	0.022	7:31:31	10/21/2011 7:31	0.023		
1500	0.012	0.013	0.015	0.019	7:32:31	10/21/2011 7:32	0.02		
1560	0.008	0.009	0.009	0.012	7:33:31	10/21/2011 7:33	0.013		
1620	0.01	0.011	0.012	0.017	7:34:31	10/21/2011 7:34	0.018		
1680	0.009	0.009	0.01	0.015	7:35:31	10/21/2011 7:35	0.016		
1740	0.016	0.017	0.019	0.025	7:36:31	10/21/2011 7:36	0.028		
1800	0.021	0.022	0.023	0.026	7:37:31	10/21/2011 7:37	0.027		
1860	0.011	0.012	0.014	0.019	7:38:31	10/21/2011 7:38	0.021		
1920	0.018	0.019	0.021	0.028	7:39:31	10/21/2011 7:39	0.03		
1980	0.012	0.014	0.016	0.023	7:40:31	10/21/2011 7:40	0.025		
2040	0.011	0.012	0.013	0.017	7:41:31	10/21/2011 7:41	0.02		
2100	0.004	0.004	0.004	0.006	7:42:31	10/21/2011 7:42	0.006		
2160	0.005	0.005	0.005	0.007	7:43:31	10/21/2011 7:43	0.007		
2220	0.014	0.015	0.017	0.024	7:44:31	10/21/2011 7:44	0.025		
2280	0.01	0.011	0.012	0.017	7:45:31	10/21/2011 7:45	0.019		
2340	0.012	0.014	0.016	0.023	7:46:31	10/21/2011 7:46	0.024		
2400	0.005	0.005	0.006	0.008	7:47:31	10/21/2011 7:47	0.008		
2460	0.004	0.004	0.005	0.006	7:48:31	10/21/2011 7:48	0.006		
2520	0.027	0.03	0.035	0.052	7:49:31	10/21/2011 7:49	0.056		
2580	0.021	0.023	0.028	0.043	7:50:31	10/21/2011 7:50	0.046		
2640	0.01	0.01	0.012	0.017	7:51:31	10/21/2011 7:51	0.018		
2700	0.007	0.008	0.009	0.01	7:52:31	10/21/2011 7:52	0.01		
2760	0.011	0.012	0.014	0.02	7:53:31	10/21/2011 7:53	0.022		
2820	0.012	0.013	0.015	0.022	7:54:31	10/21/2011 7:54	0.024		
2880	0.022	0.023	0.026	0.037	7:55:31	10/21/2011 7:55	0.039		
2940	0.022	0.024	0.028	0.039	7:56:31	10/21/2011 7:56	0.041		
3000	0.011	0.012	0.013	0.019	7:57:31	10/21/2011 7:57	0.019		
3060	0.012	0.014	0.016	0.024	7:58:31	10/21/2011 7:58	0.026		
3120	0.025	0.027	0.031	0.047	7:59:31	10/21/2011 7:59	0.05		
3180	0.009	0.009	0.011	0.015	8:00:31	10/21/2011 8:00	0.016		
3240	0.015	0.016	0.019	0.027	8:01:31	10/21/2011 8:01	0.028		

3300	0.012	0.013	0.015	0.019	8:02:31	10/21/2011 8:02	0.022
3360	0.007	0.007	0.008	0.009	8:03:31	10/21/2011 8:03	0.01
3420	0.013	0.014	0.016	0.025	8:04:31	10/21/2011 8:04	0.028
3480	0.006	0.007	0.007	0.009	8:05:31	10/21/2011 8:05	0.009
3540	0.007	0.007	0.008	0.009	8:06:31	10/21/2011 8:06	0.01
3600	0.015	0.016	0.018	0.025	8:07:31	10/21/2011 8:07	0.027
3660	0.014	0.015	0.017	0.024	8:08:31	10/21/2011 8:08	0.025
3720	0.015	0.016	0.018	0.024	8:09:31	10/21/2011 8:09	0.027
3780	0.018	0.02	0.023	0.035	8:10:31	10/21/2011 8:10	0.038
3840	0.01	0.011	0.012	0.016	8:11:31	10/21/2011 8:11	0.017
3900	0.016	0.017	0.02	0.027	8:12:31	10/21/2011 8:12	0.028
3960	0.011	0.012	0.013	0.016	8:13:31	10/21/2011 8:13	0.017
4020	0.016	0.017	0.019	0.024	8:14:31	10/21/2011 8:14	0.025
4080	0.018	0.019	0.021	0.026	8:15:31	10/21/2011 8:15	0.028
4140	0.006	0.007	0.007	0.008	8:16:31	10/21/2011 8:16	0.008
4200	0.008	0.008	0.009	0.01	8:17:31	10/21/2011 8:17	0.011
4260	0.013	0.014	0.016	0.021	8:18:31	10/21/2011 8:18	0.022
4320	0.009	0.01	0.011	0.012	8:19:31	10/21/2011 8:19	0.012
4380	0.006	0.007	0.007	0.008	8:20:31	10/21/2011 8:20	0.008
4440	0.011	0.012	0.014	0.019	8:21:31	10/21/2011 8:21	0.02
4500	0.016	0.018	0.02	0.03	8:22:31	10/21/2011 8:22	0.032
4560	0.011	0.012	0.013	0.018	8:23:31	10/21/2011 8:23	0.018
4620	0.011	0.012	0.013	0.018	8:24:31	10/21/2011 8:24	0.019
4680	0.013	0.014	0.016	0.021	8:25:31	10/21/2011 8:25	0.023
4740	0.018	0.02	0.023	0.033	8:26:31	10/21/2011 8:26	0.035
4800	0.016	0.018	0.02	0.026	8:27:31	10/21/2011 8:27	0.028
4860	0.011	0.011	0.013	0.017	8:28:31	10/21/2011 8:28	0.018
4920	0.01	0.011	0.012	0.018	8:29:31	10/21/2011 8:29	0.02
4980	0.02	0.021	0.025	0.038	8:30:31	10/21/2011 8:30	0.04
5040	0.022	0.024	0.028	0.039	8:31:31	10/21/2011 8:31	0.041
5100	0.01	0.011	0.012	0.015	8:32:31	10/21/2011 8:32	0.015
5160	0.006	0.007	0.007	0.008	8:33:31	10/21/2011 8:33	0.009
5220	0.007	0.008	0.008	0.009	8:34:31	10/21/2011 8:34	0.009
5280	0.007	0.007	0.008	0.008	8:35:31	10/21/2011 8:35	0.008
5340	0.009	0.01	0.01	0.012	8:36:31	10/21/2011 8:36	0.012
5400	0.006	0.006	0.007	0.008	8:37:31	10/21/2011 8:37	0.008
5460	0.006	0.006	0.007	0.008	8:38:31	10/21/2011 8:38	0.008
5520	0.028	0.031	0.036	0.054	8:39:31	10/21/2011 8:39	0.058
5580	0.009	0.01	0.011	0.015	8:40:31	10/21/2011 8:40	0.015
5640	0.018	0.02	0.024	0.037	8:41:31	10/21/2011 8:41	0.04
5700	0.01	0.011	0.013	0.019	8:42:31	10/21/2011 8:42	0.019
5760	0.011	0.012	0.014	0.019	8:43:31	10/21/2011 8:43	0.02
5820	0.009	0.01	0.012	0.017	8:44:31	10/21/2011 8:44	0.017
5880	0.004	0.004	0.004	0.006	8:45:31	10/21/2011 8:45	0.006
5940	0.007	0.008	0.008	0.01	8:46:31	10/21/2011 8:46	0.01
6000	0.016	0.018	0.021	0.031	8:47:31	10/21/2011 8:47	0.033
6060	0.009	0.01	0.011	0.014	8:48:31	10/21/2011 8:48	0.014
6120	0.008	0.008	0.009	0.011	8:49:31	10/21/2011 8:49	0.012
6180	0.006	0.007	0.007	0.009	8:50:31	10/21/2011 8:50	0.009
6240	0.005	0.005	0.006	0.008	8:51:31	10/21/2011 8:51	0.008
6300	0.007	0.007	0.008	0.011	8:52:31	10/21/2011 8:52	0.012
6360	0.008	0.009	0.01	0.013	8:53:31	10/21/2011 8:53	0.015
6420	0.004	0.004	0.005	0.006	8:54:31	10/21/2011 8:54	0.006
6480	0.005	0.005	0.006	0.008	8:55:31	10/21/2011 8:55	0.008
6540	0.015	0.016	0.018	0.026	8:56:31	10/21/2011 8:56	0.029
6600	0.015	0.016	0.019	0.026	8:57:31	10/21/2011 8:57	0.028
6660	0.007	0.008	0.009	0.011	8:58:31	10/21/2011 8:58	0.013
6720	0.01	0.01	0.012	0.016	8:59:31	10/21/2011 8:59	0.017
6780	0.006	0.006	0.007	0.009	9:00:31	10/21/2011 9:00	0.009
6840	0.006	0.006	0.007	0.009	9:01:31	10/21/2011 9:01	0.009
6900	0.005	0.005	0.006	0.007	9:02:31	10/21/2011 9:02	0.007
6960	0.025	0.027	0.031	0.045	9:03:31	10/21/2011 9:03	0.048
7020	0.024	0.026	0.03	0.044	9:04:31	10/21/2011 9:04	0.048
7080	0.017	0.019	0.021	0.03	9:05:31	10/21/2011 9:05	0.032
7140	0.012	0.013	0.015	0.02	9:06:31	10/21/2011 9:06	0.022
7200	0.022	0.023	0.027	0.04	9:07:31	10/21/2011 9:07	0.045
7260	0.008	0.008	0.009	0.013	9:08:31	10/21/2011 9:08	0.013
7320	0.01	0.011	0.012	0.017	9:09:31	10/21/2011 9:09	0.019
7380	0.007	0.008	0.009	0.011	9:10:31	10/21/2011 9:10	0.012
7440	0.01	0.01	0.012	0.015	9:11:31	10/21/2011 9:11	0.016
7500	0.019	0.021	0.024	0.035	9:12:31	10/21/2011 9:12	0.037
7560	0.028	0.031	0.037	0.055	9:13:31	10/21/2011 9:13	0.058
7620	0.021	0.023	0.027	0.037	9:14:31	10/21/2011 9:14	0.04
7680	0.014	0.016	0.018	0.026	9:15:31	10/21/2011 9:15	0.027
7740	0.019	0.021	0.024	0.032	9:16:31	10/21/2011 9:16	0.035
7800	0.014	0.015	0.018	0.024	9:17:31	10/21/2011 9:17	0.024
7860	0.013	0.013	0.015	0.02	9:18:31	10/21/2011 9:18	0.021
7920	0.012	0.013	0.014	0.018	9:19:31	10/21/2011 9:19	0.018
7980	0.02	0.022	0.024	0.032	9:20:31	10/21/2011 9:20	0.034
8040	0.012	0.013	0.014	0.017	9:21:31	10/21/2011 9:21	0.018
8100	0.031	0.033	0.039	0.06	9:22:31	10/21/2011 9:22	0.066
8160	0.028	0.03	0.036	0.061	9:23:31	10/21/2011 9:23	0.068
8220	0.015	0.016	0.019	0.031	9:24:31	10/21/2011 9:24	0.035
8280	0.012	0.013	0.015	0.021	9:25:31	10/21/2011 9:25	0.022
8340	0.012	0.014	0.016	0.023	9:26:31	10/21/2011 9:26	0.024
8400	0.035	0.039	0.048	0.073	9:27:31	10/21/2011 9:27	0.079
8460	0.02	0.022	0.025	0.039	9:28:31	10/21/2011 9:28	0.041
8520	0.022	0.024	0.029	0.042	9:29:31	10/21/2011 9:29	0.045
8580	0.03	0.032	0.038	0.056	9:30:31	10/21/2011 9:30	0.06
8640	0.038	0.042	0.05	0.08	9:31:31	10/21/2011 9:31	0.089
8700	0.017	0.018	0.021	0.033	9:32:31	10/21/2011 9:32	0.035

8760	0.019	0.02	0.024	0.034	9:33:31	10/21/2011 9:33	0.036
8820	0.027	0.03	0.035	0.052	9:34:31	10/21/2011 9:34	0.058
8880	0.018	0.019	0.023	0.032	9:35:31	10/21/2011 9:35	0.035
8940	0.02	0.022	0.026	0.038	9:36:31	10/21/2011 9:36	0.04
9000	0.025	0.027	0.029	0.037	9:37:31	10/21/2011 9:37	0.039
9060	0.017	0.018	0.022	0.033	9:38:31	10/21/2011 9:38	0.036
9120	0.032	0.034	0.04	0.061	9:39:31	10/21/2011 9:39	0.066
9180	0.016	0.017	0.02	0.031	9:40:31	10/21/2011 9:40	0.034
9240	0.01	0.011	0.013	0.018	9:41:31	10/21/2011 9:41	0.019
9300	0.008	0.009	0.01	0.013	9:42:31	10/21/2011 9:42	0.014
9360	0.009	0.009	0.011	0.014	9:43:31	10/21/2011 9:43	0.015
9420	0.012	0.013	0.015	0.02	9:44:31	10/21/2011 9:44	0.02
9480	0.012	0.014	0.015	0.021	9:45:31	10/21/2011 9:45	0.022
9540	0.027	0.03	0.036	0.056	9:46:31	10/21/2011 9:46	0.062
9600	0.016	0.018	0.02	0.028	9:47:31	10/21/2011 9:47	0.03
9660	0.015	0.016	0.018	0.025	9:48:31	10/21/2011 9:48	0.026
9720	0.025	0.027	0.03	0.043	9:49:31	10/21/2011 9:49	0.045
9780	0.02	0.022	0.024	0.033	9:50:31	10/21/2011 9:50	0.034
9840	0.015	0.017	0.019	0.025	9:51:31	10/21/2011 9:51	0.026
9900	0.021	0.023	0.027	0.046	9:52:31	10/21/2011 9:52	0.052
9960	0.03	0.033	0.04	0.071	9:53:31	10/21/2011 9:53	0.076
10020	0.021	0.022	0.026	0.042	9:54:31	10/21/2011 9:54	0.045
10080	0.018	0.019	0.022	0.035	9:55:31	10/21/2011 9:55	0.038
10140	0.013	0.014	0.016	0.022	9:56:31	10/21/2011 9:56	0.025
10200	0.009	0.01	0.011	0.013	9:57:31	10/21/2011 9:57	0.014
10260	0.011	0.012	0.013	0.017	9:58:31	10/21/2011 9:58	0.017
10320	0.011	0.011	0.013	0.017	9:59:31	10/21/2011 9:59	0.018
10380	0.011	0.012	0.013	0.017	10:00:31	10/21/2011 10:00	0.018
10440	0.017	0.018	0.02	0.026	10:01:31	10/21/2011 10:01	0.026
10500	0.026	0.028	0.031	0.043	10:02:31	10/21/2011 10:02	0.045
10560	0.02	0.022	0.025	0.032	10:03:31	10/21/2011 10:03	0.034
10620	0.021	0.022	0.025	0.033	10:04:31	10/21/2011 10:04	0.037
10680	0.007	0.007	0.008	0.01	10:05:31	10/21/2011 10:05	0.011
10740	0.015	0.017	0.019	0.027	10:06:31	10/21/2011 10:06	0.027
10800	0.008	0.009	0.009	0.013	10:07:31	10/21/2011 10:07	0.014
10860	0.009	0.01	0.012	0.015	10:08:31	10/21/2011 10:08	0.015
10920	0.012	0.013	0.014	0.019	10:09:31	10/21/2011 10:09	0.019
10980	0.01	0.01	0.011	0.014	10:10:31	10/21/2011 10:10	0.015
11040	0.017	0.018	0.02	0.029	10:11:31	10/21/2011 10:11	0.03
11100	0.019	0.021	0.023	0.028	10:12:31	10/21/2011 10:12	0.03
11160	0.025	0.027	0.029	0.037	10:13:31	10/21/2011 10:13	0.038
11220	0.024	0.026	0.029	0.037	10:14:31	10/21/2011 10:14	0.04
11280	0.013	0.014	0.016	0.022	10:15:31	10/21/2011 10:15	0.023
11340	0.022	0.024	0.027	0.036	10:16:31	10/21/2011 10:16	0.038
11400	0.075	0.077	0.081	0.096	10:17:31	10/21/2011 10:17	0.106
11460	0.023	0.024	0.027	0.039	10:18:31	10/21/2011 10:18	0.042
11520	0.021	0.023	0.025	0.032	10:19:31	10/21/2011 10:19	0.034
11580	0.024	0.027	0.03	0.038	10:20:31	10/21/2011 10:20	0.039
11640	0.027	0.029	0.034	0.048	10:21:31	10/21/2011 10:21	0.051
11700	0.021	0.023	0.027	0.037	10:22:31	10/21/2011 10:22	0.04
11760	0.031	0.033	0.038	0.055	10:23:31	10/21/2011 10:23	0.062
11820	0.042	0.044	0.047	0.059	10:24:31	10/21/2011 10:24	0.063
11880	0.33	0.333	0.342	0.411	10:25:31	10/21/2011 10:25	0.472
11940	0.025	0.027	0.032	0.047	10:26:31	10/21/2011 10:26	0.05
12000	0.019	0.021	0.024	0.036	10:27:31	10/21/2011 10:27	0.04
12060	0.023	0.025	0.028	0.041	10:28:31	10/21/2011 10:28	0.044
12120	0.019	0.021	0.023	0.033	10:29:31	10/21/2011 10:29	0.035
12180	0.018	0.019	0.022	0.03	10:30:31	10/21/2011 10:30	0.033
12240	0.022	0.024	0.027	0.037	10:31:31	10/21/2011 10:31	0.04
12300	0.022	0.024	0.028	0.039	10:32:31	10/21/2011 10:32	0.044
12360	0.018	0.02	0.023	0.031	10:33:31	10/21/2011 10:33	0.034
12420	0.017	0.018	0.021	0.029	10:34:31	10/21/2011 10:34	0.03
12480	0.022	0.023	0.028	0.042	10:35:31	10/21/2011 10:35	0.046
12540	0.037	0.04	0.047	0.071	10:36:31	10/21/2011 10:36	0.08
12600	0.036	0.038	0.042	0.058	10:37:31	10/21/2011 10:37	0.064
12660	0.027	0.03	0.034	0.049	10:38:31	10/21/2011 10:38	0.053
12720	0.032	0.035	0.041	0.062	10:39:31	10/21/2011 10:39	0.069
12780	0.123	0.127	0.137	0.176	10:40:31	10/21/2011 10:40	0.189
12840	0.084	0.087	0.098	0.155	10:41:31	10/21/2011 10:41	0.175
12900	0.026	0.028	0.032	0.05	10:42:31	10/21/2011 10:42	0.053
12960	0.015	0.016	0.019	0.026	10:43:31	10/21/2011 10:43	0.027
13020	0.034	0.037	0.042	0.061	10:44:31	10/21/2011 10:44	0.066
13080	0.023	0.025	0.03	0.045	10:45:31	10/21/2011 10:45	0.049
13140	0.017	0.018	0.021	0.03	10:46:31	10/21/2011 10:46	0.032
13200	0.015	0.016	0.019	0.024	10:47:31	10/21/2011 10:47	0.026
13260	0.017	0.019	0.021	0.03	10:48:31	10/21/2011 10:48	0.032
13320	0.019	0.02	0.023	0.031	10:49:31	10/21/2011 10:49	0.034
13380	0.025	0.027	0.031	0.052	10:50:31	10/21/2011 10:50	0.058
13440	0.041	0.045	0.053	0.086	10:51:31	10/21/2011 10:51	0.097
13500	0.034	0.037	0.044	0.069	10:52:31	10/21/2011 10:52	0.076
13560	0.037	0.039	0.043	0.059	10:53:31	10/21/2011 10:53	0.063
13620	0.018	0.02	0.023	0.034	10:54:31	10/21/2011 10:54	0.039
13680	0.012	0.013	0.015	0.021	10:55:31	10/21/2011 10:55	0.022
13740	0.015	0.016	0.018	0.025	10:56:31	10/21/2011 10:56	0.026
13800	0.016	0.017	0.02	0.027	10:57:31	10/21/2011 10:57	0.028
13860	0.376	0.378	0.386	0.455	10:58:31	10/21/2011 10:58	0.503
13920	0.022	0.024	0.027	0.039	10:59:31	10/21/2011 10:59	0.042
13980	0.023	0.025	0.028	0.041	11:00:31	10/21/2011 11:00	0.044
14040	0.018	0.02	0.022	0.03	11:01:31	10/21/2011 11:01	0.031
14100	0.025	0.026	0.03	0.044	11:02:31	10/21/2011 11:02	0.049
14160	0.022	0.024	0.027	0.037	11:03:31	10/21/2011 11:03	0.041

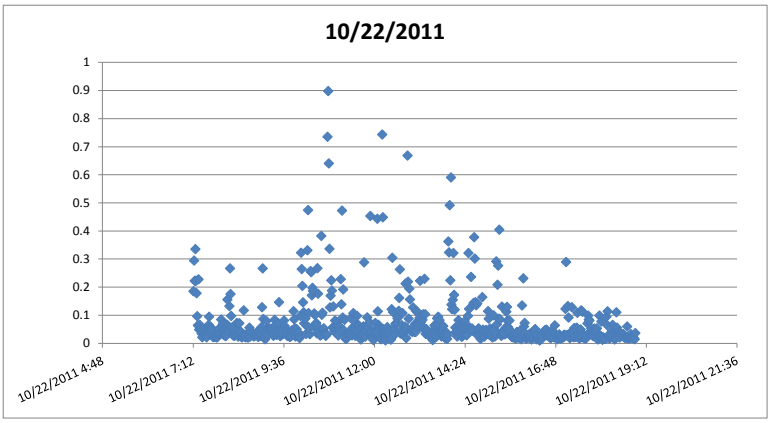
14220	0.017	0.018	0.02	0.027	11:04:31	10/21/2011 11:04	0.029
14280	0.021	0.023	0.026	0.038	11:05:31	10/21/2011 11:05	0.04
14340	0.017	0.018	0.021	0.027	11:06:31	10/21/2011 11:06	0.028
14400	0.014	0.016	0.017	0.024	11:07:31	10/21/2011 11:07	0.024
14460	0.018	0.02	0.022	0.031	11:08:31	10/21/2011 11:08	0.033
14520	0.008	0.009	0.01	0.012	11:09:31	10/21/2011 11:09	0.013
14580	0.015	0.016	0.018	0.026	11:10:31	10/21/2011 11:10	0.028
14640	0.018	0.019	0.021	0.031	11:11:31	10/21/2011 11:11	0.034
14700	0.017	0.018	0.021	0.029	11:12:31	10/21/2011 11:12	0.031
14760	0.076	0.078	0.084	0.12	11:13:31	10/21/2011 11:13	0.142
14820	0.024	0.025	0.028	0.036	11:14:31	10/21/2011 11:14	0.039
14880	0.021	0.022	0.025	0.035	11:15:31	10/21/2011 11:15	0.038
14940	0.015	0.016	0.017	0.023	11:16:31	10/21/2011 11:16	0.024
15000	0.039	0.041	0.044	0.059	11:17:31	10/21/2011 11:17	0.061
15060	0.024	0.025	0.027	0.032	11:18:31	10/21/2011 11:18	0.033
15120	0.024	0.025	0.028	0.04	11:19:31	10/21/2011 11:19	0.041
15180	0.018	0.019	0.022	0.032	11:20:31	10/21/2011 11:20	0.034
15240	0.014	0.015	0.017	0.023	11:21:31	10/21/2011 11:21	0.025
15300	0.017	0.019	0.02	0.029	11:22:31	10/21/2011 11:22	0.032
15360	0.036	0.039	0.045	0.064	11:23:31	10/21/2011 11:23	0.07
15420	0.033	0.038	0.044	0.058	11:24:31	10/21/2011 11:24	0.059
15480	0.018	0.02	0.023	0.034	11:25:31	10/21/2011 11:25	0.037
15540	0.029	0.031	0.036	0.054	11:26:31	10/21/2011 11:26	0.059
15600	0.018	0.019	0.021	0.029	11:27:31	10/21/2011 11:27	0.031
15660	0.03	0.031	0.034	0.045	11:28:31	10/21/2011 11:28	0.05
15720	0.023	0.024	0.027	0.035	11:29:31	10/21/2011 11:29	0.037
15780	0.024	0.026	0.029	0.037	11:30:31	10/21/2011 11:30	0.039
15840	0.02	0.021	0.022	0.028	11:31:31	10/21/2011 11:31	0.03
15900	0.023	0.025	0.027	0.035	11:32:31	10/21/2011 11:32	0.037
15960	0.02	0.021	0.022	0.028	11:33:31	10/21/2011 11:33	0.03
16020	0.017	0.018	0.02	0.024	11:34:31	10/21/2011 11:34	0.025
16080	0.016	0.016	0.018	0.02	11:35:31	10/21/2011 11:35	0.021
16140	0.037	0.042	0.05	0.062	11:36:31	10/21/2011 11:36	0.064
16200	0.027	0.03	0.033	0.041	11:37:31	10/21/2011 11:37	0.042
16260	0.025	0.027	0.029	0.037	11:38:31	10/21/2011 11:38	0.039
16320	0.021	0.022	0.024	0.031	11:39:31	10/21/2011 11:39	0.032
16380	0.014	0.015	0.016	0.019	11:40:31	10/21/2011 11:40	0.02
16440	0.025	0.026	0.029	0.038	11:41:31	10/21/2011 11:41	0.039
16500	0.075	0.082	0.099	0.174	11:42:31	10/21/2011 11:42	0.197
16560	0.088	0.096	0.118	0.209	11:43:31	10/21/2011 11:43	0.233
16620	0.037	0.04	0.047	0.075	11:44:31	10/21/2011 11:44	0.08
16680	0.215	0.221	0.236	0.331	11:45:31	10/21/2011 11:45	0.375
16740	0.12	0.124	0.132	0.179	11:46:31	10/21/2011 11:46	0.199
16800	0.027	0.03	0.033	0.043	11:47:31	10/21/2011 11:47	0.046
16860	0.025	0.028	0.032	0.042	11:48:31	10/21/2011 11:48	0.042
16920	0.024	0.026	0.028	0.037	11:49:31	10/21/2011 11:49	0.038
16980	0.03	0.033	0.037	0.055	11:50:31	10/21/2011 11:50	0.058
17040	0.033	0.036	0.04	0.059	11:51:31	10/21/2011 11:51	0.065
17100	0.026	0.027	0.03	0.04	11:52:31	10/21/2011 11:52	0.044
17160	0.024	0.026	0.028	0.039	11:53:31	10/21/2011 11:53	0.041
17220	0.032	0.034	0.038	0.059	11:54:31	10/21/2011 11:54	0.065
17280	0.037	0.039	0.044	0.069	11:55:31	10/21/2011 11:55	0.08
17340	0.05	0.054	0.063	0.106	11:56:31	10/21/2011 11:56	0.119
17400	0.047	0.049	0.057	0.091	11:57:31	10/21/2011 11:57	0.104
17460	0.057	0.059	0.065	0.101	11:58:31	10/21/2011 11:58	0.124
17520	0.028	0.03	0.034	0.048	11:59:31	10/21/2011 11:59	0.052
17580	0.025	0.027	0.03	0.041	12:00:31	10/21/2011 12:00	0.045
17640	0.037	0.039	0.044	0.063	12:01:31	10/21/2011 12:01	0.067
17700	0.031	0.033	0.037	0.055	12:02:31	10/21/2011 12:02	0.062
17760	0.024	0.026	0.029	0.036	12:03:31	10/21/2011 12:03	0.037
17820	0.014	0.014	0.016	0.021	12:04:31	10/21/2011 12:04	0.022
17880	0.068	0.069	0.074	0.122	12:05:31	10/21/2011 12:05	0.154
17940	0.032	0.034	0.038	0.051	12:06:31	10/21/2011 12:06	0.054
18000	0.028	0.03	0.033	0.044	12:07:31	10/21/2011 12:07	0.046
18060	0.018	0.02	0.021	0.027	12:08:31	10/21/2011 12:08	0.028
18120	0.024	0.026	0.028	0.038	12:09:31	10/21/2011 12:09	0.04
18180	0.021	0.023	0.025	0.033	12:10:31	10/21/2011 12:10	0.035
18240	0.072	0.083	0.1	0.13	12:11:31	10/21/2011 12:11	0.133
18300	0.046	0.05	0.058	0.073	12:12:31	10/21/2011 12:12	0.076
18360	0.043	0.046	0.053	0.077	12:13:31	10/21/2011 12:13	0.083
18420	0.032	0.034	0.039	0.053	12:14:31	10/21/2011 12:14	0.055
18480	0.026	0.028	0.03	0.037	12:15:31	10/21/2011 12:15	0.038
18540	0.042	0.045	0.051	0.074	12:16:31	10/21/2011 12:16	0.078
18600	0.038	0.041	0.046	0.065	12:17:31	10/21/2011 12:17	0.069
18660	0.379	0.381	0.388	0.453	12:18:31	10/21/2011 12:18	0.498
18720	0.034	0.036	0.04	0.052	12:19:31	10/21/2011 12:19	0.055
18780	0.055	0.059	0.069	0.103	12:20:31	10/21/2011 12:20	0.111
18840	0.032	0.034	0.039	0.054	12:21:31	10/21/2011 12:21	0.058
18900	0.055	0.061	0.071	0.095	12:22:31	10/21/2011 12:22	0.099
18960	0.043	0.048	0.056	0.075	12:23:31	10/21/2011 12:23	0.079
19020	0.036	0.039	0.045	0.059	12:24:31	10/21/2011 12:24	0.063
19080	0.027	0.028	0.031	0.039	12:25:31	10/21/2011 12:25	0.042
19140	0.031	0.032	0.035	0.044	12:26:31	10/21/2011 12:26	0.046
19200	0.034	0.036	0.039	0.048	12:27:31	10/21/2011 12:27	0.05
19260	0.052	0.056	0.063	0.081	12:28:31	10/21/2011 12:28	0.083
19320	0.026	0.028	0.031	0.04	12:29:31	10/21/2011 12:29	0.04
19380	0.014	0.015	0.017	0.02	12:30:31	10/21/2011 12:30	0.021
19440	0.06	0.066	0.078	0.106	12:31:31	10/21/2011 12:31	0.113
19500	0.045	0.05	0.057	0.073	12:32:31	10/21/2011 12:32	0.074
19560	0.03	0.033	0.037	0.047	12:33:31	10/21/2011 12:33	0.048
19620	0.019	0.021	0.023	0.027	12:34:31	10/21/2011 12:34	0.028

19680	0.011	0.012	0.013	0.016	12:35:31	10/21/2011 12:35	0.016
19740	0.009	0.009	0.01	0.01	12:36:31	10/21/2011 12:36	0.011
19800	0.013	0.014	0.016	0.02	12:37:31	10/21/2011 12:37	0.021
19860	0.014	0.015	0.016	0.021	12:38:31	10/21/2011 12:38	0.022
19920	0.017	0.018	0.019	0.024	12:39:31	10/21/2011 12:39	0.025
19980	0.026	0.028	0.031	0.038	12:40:31	10/21/2011 12:40	0.041
20040	0.019	0.02	0.021	0.025	12:41:31	10/21/2011 12:41	0.026
20100	0.019	0.02	0.021	0.024	12:42:31	10/21/2011 12:42	0.025
20160	0.012	0.013	0.013	0.014	12:43:31	10/21/2011 12:43	0.014
20220	0.01	0.01	0.011	0.014	12:44:31	10/21/2011 12:44	0.016
20280	0.008	0.008	0.009	0.01	12:45:31	10/21/2011 12:45	0.011
20340	0.017	0.018	0.02	0.024	12:46:31	10/21/2011 12:46	0.024
20400	0.018	0.019	0.021	0.026	12:47:31	10/21/2011 12:47	0.026
20460	0.011	0.012	0.012	0.014	12:48:31	10/21/2011 12:48	0.014
20520	0.013	0.014	0.015	0.019	12:49:31	10/21/2011 12:49	0.019
20580	0.023	0.025	0.028	0.041	12:50:31	10/21/2011 12:50	0.046
20640	0.025	0.026	0.029	0.041	12:51:31	10/21/2011 12:51	0.045
20700	0.025	0.026	0.03	0.042	12:52:31	10/21/2011 12:52	0.048
20760	0.037	0.04	0.044	0.059	12:53:31	10/21/2011 12:53	0.062
20820	0.022	0.023	0.026	0.034	12:54:31	10/21/2011 12:54	0.035
20880	0.027	0.029	0.033	0.045	12:55:31	10/21/2011 12:55	0.049
20940	0.027	0.029	0.031	0.041	12:56:31	10/21/2011 12:56	0.047
21000	0.026	0.028	0.03	0.038	12:57:31	10/21/2011 12:57	0.039
21060	0.027	0.028	0.031	0.039	12:58:31	10/21/2011 12:58	0.042
21120	0.027	0.028	0.031	0.038	12:59:31	10/21/2011 12:59	0.04
21180	0.024	0.026	0.028	0.034	13:00:31	10/21/2011 13:00	0.035
21240	0.027	0.029	0.032	0.038	13:01:31	10/21/2011 13:01	0.04
21300	0.021	0.022	0.024	0.032	13:02:31	10/21/2011 13:02	0.033
21360	0.024	0.025	0.027	0.031	13:03:31	10/21/2011 13:03	0.033
21420	0.029	0.031	0.034	0.043	13:04:31	10/21/2011 13:04	0.045
21480	0.033	0.035	0.039	0.049	13:05:31	10/21/2011 13:05	0.051
21540	0.033	0.035	0.039	0.052	13:06:31	10/21/2011 13:06	0.054
21600	0.024	0.025	0.028	0.037	13:07:31	10/21/2011 13:07	0.04
21660	0.025	0.027	0.029	0.036	13:08:31	10/21/2011 13:08	0.037
21720	0.027	0.029	0.033	0.042	13:09:31	10/21/2011 13:09	0.045
21780	0.051	0.056	0.064	0.093	13:10:31	10/21/2011 13:10	0.101
21840	0.047	0.05	0.055	0.07	13:11:31	10/21/2011 13:11	0.076
21900	0.034	0.037	0.042	0.059	13:12:31	10/21/2011 13:12	0.064
21960	0.04	0.044	0.051	0.078	13:13:31	10/21/2011 13:13	0.085
22020	0.035	0.038	0.044	0.066	13:14:31	10/21/2011 13:14	0.075
22080	0.026	0.028	0.032	0.047	13:15:31	10/21/2011 13:15	0.053
22140	0.039	0.043	0.05	0.073	13:16:31	10/21/2011 13:16	0.078
22200	0.025	0.027	0.03	0.037	13:17:31	10/21/2011 13:17	0.039
22260	0.027	0.028	0.031	0.039	13:18:31	10/21/2011 13:18	0.041
22320	0.02	0.021	0.023	0.027	13:19:31	10/21/2011 13:19	0.028
22380	0.023	0.025	0.028	0.036	13:20:31	10/21/2011 13:20	0.041
22440	0.015	0.015	0.016	0.02	13:21:31	10/21/2011 13:21	0.02
22500	0.033	0.035	0.041	0.063	13:22:31	10/21/2011 13:22	0.068
22560	0.037	0.04	0.045	0.062	13:23:31	10/21/2011 13:23	0.065
22620	0.021	0.022	0.025	0.032	13:24:31	10/21/2011 13:24	0.035
22680	0.026	0.027	0.03	0.04	13:25:31	10/21/2011 13:25	0.042
22740	0.027	0.03	0.033	0.044	13:26:31	10/21/2011 13:26	0.047
22800	0.024	0.025	0.028	0.035	13:27:31	10/21/2011 13:27	0.036
22860	0.024	0.026	0.029	0.036	13:28:31	10/21/2011 13:28	0.039
22920	0.049	0.051	0.056	0.074	13:29:31	10/21/2011 13:29	0.082
22980	0.032	0.035	0.04	0.058	13:30:31	10/21/2011 13:30	0.063
23040	0.041	0.044	0.05	0.086	13:31:31	10/21/2011 13:31	0.102
23100	0.028	0.03	0.034	0.049	13:32:31	10/21/2011 13:32	0.054
23160	0.041	0.045	0.053	0.078	13:33:31	10/21/2011 13:33	0.087
23220	0.023	0.024	0.027	0.037	13:34:31	10/21/2011 13:34	0.038
23280	0.03	0.033	0.037	0.055	13:35:31	10/21/2011 13:35	0.061
23340	0.029	0.032	0.037	0.054	13:36:31	10/21/2011 13:36	0.057
23400	0.027	0.029	0.031	0.04	13:37:31	10/21/2011 13:37	0.041
23460	0.036	0.04	0.046	0.06	13:38:31	10/21/2011 13:38	0.063
23520	0.067	0.074	0.09	0.144	13:39:31	10/21/2011 13:39	0.153
23580	0.034	0.037	0.044	0.064	13:40:31	10/21/2011 13:40	0.066
23640	0.03	0.032	0.036	0.05	13:41:31	10/21/2011 13:41	0.055
23700	0.053	0.056	0.061	0.078	13:42:31	10/21/2011 13:42	0.081
23760	0.031	0.033	0.036	0.046	13:43:31	10/21/2011 13:43	0.047
23820	0.051	0.053	0.058	0.075	13:44:31	10/21/2011 13:44	0.08
23880	0.463	0.468	0.479	0.574	13:45:31	10/21/2011 13:45	0.65
23940	0.057	0.062	0.071	0.104	13:46:31	10/21/2011 13:46	0.11
24000	0.057	0.061	0.067	0.09	13:47:31	10/21/2011 13:47	0.093
24060	0.04	0.043	0.047	0.059	13:48:31	10/21/2011 13:48	0.061
24120	0.027	0.029	0.032	0.04	13:49:31	10/21/2011 13:49	0.043
24180	0.026	0.029	0.032	0.039	13:50:31	10/21/2011 13:50	0.04
24240	0.036	0.038	0.041	0.051	13:51:31	10/21/2011 13:51	0.051
24300	0.036	0.039	0.044	0.058	13:52:31	10/21/2011 13:52	0.058
24360	0.037	0.04	0.045	0.061	13:53:31	10/21/2011 13:53	0.064
24420	0.026	0.028	0.031	0.041	13:54:31	10/21/2011 13:54	0.044
24480	0.021	0.023	0.025	0.031	13:55:31	10/21/2011 13:55	0.032
24540	0.024	0.026	0.027	0.032	13:56:31	10/21/2011 13:56	0.032
24600	0.026	0.028	0.031	0.035	13:57:31	10/21/2011 13:57	0.038
24660	0.028	0.03	0.033	0.044	13:58:31	10/21/2011 13:58	0.047
24720	0.021	0.022	0.024	0.032	13:59:31	10/21/2011 13:59	0.035
24780	0.018	0.019	0.021	0.025	14:00:31	10/21/2011 14:00	0.026
24840	0.035	0.037	0.04	0.056	14:01:31	10/21/2011 14:01	0.058
24900	0.035	0.037	0.041	0.058	14:02:31	10/21/2011 14:02	0.061
24960	0.045	0.048	0.055	0.082	14:03:31	10/21/2011 14:03	0.088
25020	0.068	0.074	0.086	0.141	14:04:31	10/21/2011 14:04	0.156
25080	0.055	0.059	0.071	0.118	14:05:31	10/21/2011 14:05	0.132

25140	0.045	0.049	0.057	0.089	14:06:31	10/21/2011 14:06	0.099
25200	0.053	0.057	0.068	0.114	14:07:31	10/21/2011 14:07	0.127
25260	0.064	0.07	0.084	0.142	14:08:31	10/21/2011 14:08	0.162
25320	0.076	0.082	0.099	0.174	14:09:31	10/21/2011 14:09	0.197
25380	0.041	0.044	0.052	0.082	14:10:31	10/21/2011 14:10	0.091
25440	0.024	0.026	0.028	0.038	14:11:31	10/21/2011 14:11	0.041
25500	0.026	0.027	0.029	0.039	14:12:31	10/21/2011 14:12	0.041
25560	0.029	0.031	0.034	0.044	14:13:31	10/21/2011 14:13	0.045
25620	0.013	0.014	0.015	0.017	14:14:31	10/21/2011 14:14	0.018
25680	0.027	0.029	0.033	0.044	14:15:31	10/21/2011 14:15	0.047
25740	0.023	0.024	0.026	0.032	14:16:31	10/21/2011 14:16	0.033
25800	0.043	0.045	0.047	0.055	14:17:31	10/21/2011 14:17	0.057
25860	0.042	0.045	0.051	0.073	14:18:31	10/21/2011 14:18	0.078
25920	0.039	0.042	0.047	0.063	14:19:31	10/21/2011 14:19	0.069
25980	0.11	0.113	0.116	0.123	14:20:31	10/21/2011 14:20	0.126
26040	0.049	0.052	0.057	0.081	14:21:31	10/21/2011 14:21	0.086
26100	0.03	0.032	0.035	0.046	14:22:31	10/21/2011 14:22	0.048
26160	0.053	0.055	0.058	0.071	14:23:31	10/21/2011 14:23	0.076
26220	0.045	0.047	0.05	0.06	14:24:31	10/21/2011 14:24	0.062
26280	0.05	0.052	0.054	0.063	14:25:31	10/21/2011 14:25	0.064
26340	0.032	0.033	0.034	0.039	14:26:31	10/21/2011 14:26	0.042
26400	0.016	0.016	0.017	0.02	14:27:31	10/21/2011 14:27	0.02
26460	0.025	0.026	0.028	0.035	14:28:31	10/21/2011 14:28	0.037
26520	0.031	0.032	0.035	0.046	14:29:31	10/21/2011 14:29	0.047
26580	0.038	0.039	0.042	0.05	14:30:31	10/21/2011 14:30	0.053
26640	0.031	0.033	0.036	0.047	14:31:31	10/21/2011 14:31	0.049
26700	0.034	0.036	0.039	0.047	14:32:31	10/21/2011 14:32	0.049
26760	0.036	0.038	0.043	0.057	14:33:31	10/21/2011 14:33	0.063
26820	0.036	0.038	0.04	0.048	14:34:31	10/21/2011 14:34	0.05
26880	0.027	0.028	0.03	0.037	14:35:31	10/21/2011 14:35	0.04
26940	0.02	0.021	0.023	0.029	14:36:31	10/21/2011 14:36	0.031
27000	0.073	0.075	0.079	0.095	14:37:31	10/21/2011 14:37	0.098
27060	0.026	0.027	0.029	0.036	14:38:31	10/21/2011 14:38	0.037
27120	0.014	0.015	0.016	0.02	14:39:31	10/21/2011 14:39	0.021
27180	0.013	0.014	0.015	0.019	14:40:31	10/21/2011 14:40	0.02
27240	0.026	0.028	0.031	0.04	14:41:31	10/21/2011 14:41	0.043
27300	0.022	0.024	0.026	0.034	14:42:31	10/21/2011 14:42	0.036
27360	0.016	0.017	0.018	0.022	14:43:31	10/21/2011 14:43	0.023
27420	0.016	0.017	0.019	0.022	14:44:31	10/21/2011 14:44	0.022
27480	0.022	0.024	0.027	0.036	14:45:31	10/21/2011 14:45	0.038
27540	0.019	0.02	0.022	0.03	14:46:31	10/21/2011 14:46	0.033
27600	0.019	0.02	0.022	0.029	14:47:31	10/21/2011 14:47	0.033
27660	0.021	0.022	0.025	0.032	14:48:31	10/21/2011 14:48	0.034
27720	0.019	0.02	0.021	0.027	14:49:31	10/21/2011 14:49	0.029
27780	0.016	0.017	0.018	0.02	14:50:31	10/21/2011 14:50	0.022
27840	0.014	0.015	0.016	0.018	14:51:31	10/21/2011 14:51	0.018
27900	0.018	0.019	0.02	0.026	14:52:31	10/21/2011 14:52	0.027
27960	0.026	0.027	0.03	0.042	14:53:31	10/21/2011 14:53	0.046
28020	0.018	0.019	0.02	0.023	14:54:31	10/21/2011 14:54	0.024
28080	0.013	0.014	0.014	0.016	14:55:31	10/21/2011 14:55	0.017
28140	0.014	0.015	0.015	0.017	14:56:31	10/21/2011 14:56	0.017
28200	0.025	0.026	0.03	0.057	14:57:31	10/21/2011 14:57	0.063
28260	0.014	0.015	0.017	0.02	14:58:31	10/21/2011 14:58	0.02
28320	0.017	0.019	0.021	0.026	14:59:31	10/21/2011 14:59	0.027
28380	0.023	0.025	0.027	0.038	15:00:31	10/21/2011 15:00	0.04
28440	0.023	0.025	0.027	0.037	15:01:31	10/21/2011 15:01	0.038
28500	0.02	0.022	0.024	0.032	15:02:31	10/21/2011 15:02	0.033
28560	0.014	0.014	0.015	0.019	15:03:31	10/21/2011 15:03	0.019
28620	0.026	0.028	0.031	0.04	15:04:31	10/21/2011 15:04	0.044
28680	0.028	0.03	0.033	0.045	15:05:31	10/21/2011 15:05	0.048
28740	0.024	0.026	0.028	0.037	15:06:31	10/21/2011 15:06	0.04
28800	0.029	0.031	0.034	0.044	15:07:31	10/21/2011 15:07	0.045
28860	0.028	0.03	0.033	0.045	15:08:31	10/21/2011 15:08	0.048
28920	0.029	0.032	0.035	0.043	15:09:31	10/21/2011 15:09	0.046
28980	0.027	0.028	0.03	0.035	15:10:31	10/21/2011 15:10	0.035
29040	0.036	0.039	0.043	0.056	15:11:31	10/21/2011 15:11	0.059
29100	0.028	0.031	0.035	0.047	15:12:31	10/21/2011 15:12	0.051
29160	0.017	0.018	0.02	0.026	15:13:31	10/21/2011 15:13	0.027
29220	0.047	0.05	0.057	0.084	15:14:31	10/21/2011 15:14	0.091
29280	0.029	0.032	0.037	0.056	15:15:31	10/21/2011 15:15	0.06
29340	0.033	0.036	0.041	0.064	15:16:31	10/21/2011 15:16	0.068
29400	0.034	0.037	0.043	0.067	15:17:31	10/21/2011 15:17	0.072
29460	0.038	0.041	0.048	0.073	15:18:31	10/21/2011 15:18	0.078
29520	0.044	0.047	0.054	0.078	15:19:31	10/21/2011 15:19	0.081
29580	0.05	0.053	0.061	0.087	15:20:31	10/21/2011 15:20	0.094
29640	0.024	0.025	0.029	0.044	15:21:31	10/21/2011 15:21	0.047
29700	0.021	0.022	0.025	0.038	15:22:31	10/21/2011 15:22	0.042
29760	0.043	0.046	0.052	0.075	15:23:31	10/21/2011 15:23	0.083
29820	0.055	0.058	0.061	0.076	15:24:31	10/21/2011 15:24	0.079
29880	0.031	0.033	0.037	0.053	15:25:31	10/21/2011 15:25	0.058
29940	0.033	0.036	0.041	0.062	15:26:31	10/21/2011 15:26	0.065
30000	0.027	0.029	0.033	0.049	15:27:31	10/21/2011 15:27	0.056
30060	0.026	0.027	0.031	0.042	15:28:31	10/21/2011 15:28	0.046
30120	0.045	0.049	0.056	0.084	15:29:31	10/21/2011 15:29	0.089
30180	0.037	0.04	0.045	0.059	15:30:31	10/21/2011 15:30	0.061
30240	0.048	0.052	0.058	0.081	15:31:31	10/21/2011 15:31	0.088
30300	0.056	0.061	0.069	0.103	15:32:31	10/21/2011 15:32	0.113
30360	0.036	0.039	0.045	0.063	15:33:31	10/21/2011 15:33	0.067
30420	0.06	0.065	0.077	0.119	15:34:31	10/21/2011 15:34	0.126
30480	0.054	0.059	0.066	0.095	15:35:31	10/21/2011 15:35	0.102
30540	0.052	0.055	0.06	0.08	15:36:31	10/21/2011 15:36	0.088

30600	0.05	0.053	0.06	0.081	15:37:31	10/21/2011 15:37	0.086
30660	0.056	0.06	0.067	0.093	15:38:31	10/21/2011 15:38	0.103
30720	0.039	0.042	0.048	0.064	15:39:31	10/21/2011 15:39	0.068
30780	0.034	0.037	0.042	0.062	15:40:31	10/21/2011 15:40	0.068
30840	0.181	0.186	0.198	0.266	15:41:31	10/21/2011 15:41	0.301
30900	0.06	0.065	0.075	0.115	15:42:31	10/21/2011 15:42	0.124
30960	0.061	0.066	0.074	0.111	15:43:31	10/21/2011 15:43	0.12
31020	0.056	0.06	0.065	0.081	15:44:31	10/21/2011 15:44	0.087
31080	0.051	0.054	0.057	0.069	15:45:31	10/21/2011 15:45	0.072
31140	0.058	0.062	0.067	0.085	15:46:31	10/21/2011 15:46	0.09
31200	0.087	0.096	0.115	0.175	15:47:31	10/21/2011 15:47	0.187
31260	0.047	0.052	0.062	0.093	15:48:31	10/21/2011 15:48	0.097
31320	0.037	0.041	0.048	0.066	15:49:31	10/21/2011 15:49	0.07
31380	0.039	0.042	0.049	0.071	15:50:31	10/21/2011 15:50	0.075
31440	0.051	0.054	0.061	0.088	15:51:31	10/21/2011 15:51	0.098
31500	0.035	0.037	0.043	0.065	15:52:31	10/21/2011 15:52	0.069
31560	0.06	0.066	0.077	0.123	15:53:31	10/21/2011 15:53	0.139
31620	0.073	0.079	0.094	0.158	15:54:31	10/21/2011 15:54	0.181
31680	0.043	0.047	0.055	0.086	15:55:31	10/21/2011 15:55	0.093
31740	0.043	0.047	0.055	0.087	15:56:31	10/21/2011 15:56	0.097
31800	0.054	0.058	0.068	0.102	15:57:31	10/21/2011 15:57	0.115
31860	0.049	0.053	0.061	0.088	15:58:31	10/21/2011 15:58	0.096
31920	0.468	0.474	0.49	0.616	15:59:31	10/21/2011 15:59	0.704
31980	0.069	0.076	0.09	0.145	16:00:31	10/21/2011 16:00	0.159
32040	0.08	0.086	0.1	0.16	16:01:31	10/21/2011 16:01	0.179
32100	0.059	0.064	0.072	0.111	16:02:31	10/21/2011 16:02	0.125
32160	0.042	0.045	0.053	0.08	16:03:31	10/21/2011 16:03	0.091
32220	0.047	0.051	0.059	0.087	16:04:31	10/21/2011 16:04	0.095
32280	0.041	0.044	0.049	0.069	16:05:31	10/21/2011 16:05	0.074
32340	0.037	0.039	0.043	0.057	16:06:31	10/21/2011 16:06	0.06
32400	0.031	0.033	0.037	0.047	16:07:31	10/21/2011 16:07	0.05
32460	0.022	0.023	0.026	0.033	16:08:31	10/21/2011 16:08	0.035
32520	0.03	0.032	0.034	0.043	16:09:31	10/21/2011 16:09	0.045
32580	0.04	0.043	0.048	0.066	16:10:31	10/21/2011 16:10	0.072
32640	0.039	0.042	0.046	0.061	16:11:31	10/21/2011 16:11	0.064
32700	0.041	0.044	0.048	0.061	16:12:31	10/21/2011 16:12	0.066
32760	0.028	0.031	0.034	0.046	16:13:31	10/21/2011 16:13	0.049
32820	0.03	0.033	0.037	0.052	16:14:31	10/21/2011 16:14	0.056
32880	0.032	0.035	0.04	0.055	16:15:31	10/21/2011 16:15	0.059
32940	0.034	0.036	0.042	0.062	16:16:31	10/21/2011 16:16	0.068
33000	0.029	0.032	0.036	0.051	16:17:31	10/21/2011 16:17	0.054
33060	0.032	0.035	0.039	0.054	16:18:31	10/21/2011 16:18	0.06
33120	0.041	0.045	0.05	0.068	16:19:31	10/21/2011 16:19	0.072
33180	0.047	0.051	0.057	0.08	16:20:31	10/21/2011 16:20	0.085
33240	0.044	0.048	0.055	0.082	16:21:31	10/21/2011 16:21	0.09
33300	0.085	0.094	0.113	0.171	16:22:31	10/21/2011 16:22	0.184

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_004
Test Start Time	7:11:32
Test Start Date	10/22/2011
Test Length [D:H:M]	0:11:43
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.03
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.271
PM1 TWA [mg/m3]	0.034
PM2.5 Average [mg/m3]	0.031
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.282
PM2.5 TWA [mg/m3]	0.035
PM4 Average [mg/m3]	0.034
PM4 Minimum [mg/m3]	0.008
PM4 Maximum [mg/m3]	0.318
PM4 TWA [mg/m3]	0.038
PM10 Average [mg/m3]	0.052
PM10 Minimum [mg/m3]	0.01
PM10 Maximum [mg/m3]	0.593
PM10 TWA [mg/m3]	0.061
TOTAL Average [mg/m3]	0.071
TOTAL Minimum [mg/m3]	0.01
TOTAL Maximum [mg/m3]	0.898
TOTAL TWA [mg/m3]	0.084
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	703



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:11:32	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.067	0.07	0.074	0.12	7:12:32	10/22/2011 7:12	0.185		
120	0.093	0.096	0.104	0.179	7:13:32	10/22/2011 7:13	0.294		
180	0.076	0.079	0.084	0.137	7:14:32	10/22/2011 7:14	0.222		
240	0.108	0.112	0.121	0.204	7:15:32	10/22/2011 7:15	0.335		
300	0.083	0.087	0.093	0.139	7:16:32	10/22/2011 7:16	0.222		
360	0.072	0.076	0.081	0.119	7:17:32	10/22/2011 7:17	0.178		
420	0.046	0.048	0.052	0.071	7:18:32	10/22/2011 7:18	0.096		
480	0.037	0.039	0.041	0.054	7:19:32	10/22/2011 7:19	0.063		
540	0.117	0.119	0.123	0.154	7:20:32	10/22/2011 7:20	0.227		
600	0.028	0.029	0.03	0.04	7:21:32	10/22/2011 7:21	0.048		
660	0.035	0.036	0.038	0.05	7:22:32	10/22/2011 7:22	0.065		
720	0.029	0.03	0.032	0.041	7:23:32	10/22/2011 7:23	0.05		
780	0.026	0.028	0.029	0.037	7:24:32	10/22/2011 7:24	0.043		
840	0.021	0.022	0.023	0.029	7:25:32	10/22/2011 7:25	0.034		
900	0.015	0.016	0.016	0.021	7:26:32	10/22/2011 7:26	0.021		
960	0.022	0.023	0.026	0.032	7:27:32	10/22/2011 7:27	0.036		
1020	0.025	0.026	0.03	0.038	7:28:32	10/22/2011 7:28	0.043		
1080	0.028	0.03	0.035	0.044	7:29:32	10/22/2011 7:29	0.048		
1140	0.019	0.02	0.022	0.028	7:30:32	10/22/2011 7:30	0.03		
1200	0.027	0.027	0.029	0.035	7:31:32	10/22/2011 7:31	0.039		
1260	0.026	0.026	0.028	0.034	7:32:32	10/22/2011 7:32	0.041		
1320	0.015	0.016	0.016	0.018	7:33:32	10/22/2011 7:33	0.021		
1380	0.024	0.025	0.027	0.038	7:34:32	10/22/2011 7:34	0.046		
1440	0.026	0.027	0.03	0.043	7:35:32	10/22/2011 7:35	0.052		
1500	0.029	0.031	0.035	0.052	7:36:32	10/22/2011 7:36	0.065		
1560	0.038	0.04	0.045	0.071	7:37:32	10/22/2011 7:37	0.094		
1620	0.026	0.027	0.03	0.046	7:38:32	10/22/2011 7:38	0.056		
1680	0.025	0.026	0.028	0.039	7:39:32	10/22/2011 7:39	0.045		
1740	0.027	0.029	0.032	0.049	7:40:32	10/22/2011 7:40	0.056		
1800	0.034	0.035	0.037	0.044	7:41:32	10/22/2011 7:41	0.05		
1860	0.023	0.024	0.026	0.033	7:42:32	10/22/2011 7:42	0.042		
1920	0.015	0.015	0.016	0.02	7:43:32	10/22/2011 7:43	0.022		
1980	0.016	0.016	0.017	0.02	7:44:32	10/22/2011 7:44	0.023		
2040	0.015	0.016	0.016	0.02	7:45:32	10/22/2011 7:45	0.022		
2100	0.021	0.021	0.022	0.025	7:46:32	10/22/2011 7:46	0.028		
2160	0.017	0.018	0.018	0.022	7:47:32	10/22/2011 7:47	0.024		
2220	0.015	0.016	0.016	0.019	7:48:32	10/22/2011 7:48	0.023		
2280	0.014	0.014	0.015	0.018	7:49:32	10/22/2011 7:49	0.02		
2340	0.015	0.015	0.016	0.019	7:50:32	10/22/2011 7:50	0.022		
2400	0.022	0.023	0.024	0.029	7:51:32	10/22/2011 7:51	0.035		
2460	0.019	0.019	0.02	0.025	7:52:32	10/22/2011 7:52	0.031		
2520	0.021	0.022	0.023	0.028	7:53:32	10/22/2011 7:53	0.033		
2580	0.02	0.02	0.021	0.027	7:54:32	10/22/2011 7:54	0.034		
2640	0.036	0.037	0.04	0.051	7:55:32	10/22/2011 7:55	0.057		
2700	0.052	0.056	0.063	0.078	7:56:32	10/22/2011 7:56	0.084		
2760	0.032	0.034	0.037	0.048	7:57:32	10/22/2011 7:57	0.052		
2820	0.037	0.04	0.043	0.054	7:58:32	10/22/2011 7:58	0.062		
2880	0.037	0.039	0.043	0.06	7:59:32	10/22/2011 7:59	0.07		
2940	0.02	0.021	0.023	0.028	8:00:32	10/22/2011 8:00	0.03		
3000	0.019	0.02	0.021	0.024	8:01:32	10/22/2011 8:01	0.028		
3060	0.021	0.021	0.022	0.027	8:02:32	10/22/2011 8:02	0.03		
3120	0.016	0.016	0.017	0.021	8:03:32	10/22/2011 8:03	0.025		
3180	0.018	0.018	0.019	0.025	8:04:32	10/22/2011 8:04	0.028		
3240	0.038	0.039	0.041	0.056	8:05:32	10/22/2011 8:05	0.066		

3300	0.093	0.096	0.102	0.132	8:06:32	10/22/2011 8:06	0.155
3360	0.034	0.035	0.038	0.054	8:07:32	10/22/2011 8:07	0.062
3420	0.029	0.03	0.032	0.04	8:08:32	10/22/2011 8:08	0.046
3480	0.089	0.091	0.095	0.115	8:09:32	10/22/2011 8:09	0.132
3540	0.176	0.181	0.189	0.236	8:10:32	10/22/2011 8:10	0.266
3600	0.084	0.087	0.095	0.14	8:11:32	10/22/2011 8:11	0.175
3660	0.044	0.045	0.049	0.07	8:12:32	10/22/2011 8:12	0.097
3720	0.032	0.033	0.035	0.044	8:13:32	10/22/2011 8:13	0.054
3780	0.035	0.036	0.038	0.048	8:14:32	10/22/2011 8:14	0.057
3840	0.018	0.019	0.019	0.024	8:15:32	10/22/2011 8:15	0.027
3900	0.02	0.021	0.021	0.027	8:16:32	10/22/2011 8:16	0.031
3960	0.02	0.021	0.022	0.025	8:17:32	10/22/2011 8:17	0.026
4020	0.025	0.026	0.027	0.031	8:18:32	10/22/2011 8:18	0.035
4080	0.023	0.024	0.025	0.029	8:19:32	10/22/2011 8:19	0.033
4140	0.025	0.026	0.027	0.033	8:20:32	10/22/2011 8:20	0.041
4200	0.04	0.041	0.043	0.06	8:21:32	10/22/2011 8:21	0.072
4260	0.029	0.03	0.031	0.039	8:22:32	10/22/2011 8:22	0.048
4320	0.016	0.017	0.017	0.02	8:23:32	10/22/2011 8:23	0.023
4380	0.018	0.018	0.019	0.025	8:24:32	10/22/2011 8:24	0.033
4440	0.029	0.029	0.031	0.045	8:25:32	10/22/2011 8:25	0.071
4500	0.018	0.018	0.019	0.026	8:26:32	10/22/2011 8:26	0.031
4560	0.019	0.02	0.021	0.029	8:27:32	10/22/2011 8:27	0.041
4620	0.014	0.014	0.015	0.019	8:28:32	10/22/2011 8:28	0.023
4680	0.013	0.013	0.014	0.017	8:29:32	10/22/2011 8:29	0.02
4740	0.016	0.017	0.018	0.022	8:30:32	10/22/2011 8:30	0.026
4800	0.019	0.019	0.02	0.027	8:31:32	10/22/2011 8:31	0.032
4860	0.04	0.041	0.044	0.072	8:32:32	10/22/2011 8:32	0.117
4920	0.015	0.015	0.016	0.021	8:33:32	10/22/2011 8:33	0.024
4980	0.018	0.018	0.019	0.025	8:34:32	10/22/2011 8:34	0.03
5040	0.015	0.015	0.016	0.019	8:35:32	10/22/2011 8:35	0.021
5100	0.015	0.016	0.016	0.021	8:36:32	10/22/2011 8:36	0.024
5160	0.019	0.019	0.02	0.025	8:37:32	10/22/2011 8:37	0.031
5220	0.013	0.013	0.014	0.018	8:38:32	10/22/2011 8:38	0.021
5280	0.014	0.015	0.015	0.018	8:39:32	10/22/2011 8:39	0.02
5340	0.016	0.017	0.018	0.022	8:40:32	10/22/2011 8:40	0.026
5400	0.025	0.026	0.028	0.041	8:41:32	10/22/2011 8:41	0.055
5460	0.015	0.015	0.016	0.021	8:42:32	10/22/2011 8:42	0.023
5520	0.019	0.019	0.02	0.029	8:43:32	10/22/2011 8:43	0.038
5580	0.016	0.016	0.017	0.027	8:44:32	10/22/2011 8:44	0.035
5640	0.024	0.025	0.026	0.03	8:45:32	10/22/2011 8:45	0.036
5700	0.021	0.021	0.023	0.031	8:46:32	10/22/2011 8:46	0.038
5760	0.015	0.015	0.016	0.023	8:47:32	10/22/2011 8:47	0.027
5820	0.015	0.015	0.016	0.021	8:48:32	10/22/2011 8:48	0.024
5880	0.016	0.016	0.017	0.023	8:49:32	10/22/2011 8:49	0.028
5940	0.017	0.018	0.019	0.024	8:50:32	10/22/2011 8:50	0.027
6000	0.018	0.019	0.019	0.025	8:51:32	10/22/2011 8:51	0.032
6060	0.021	0.021	0.022	0.03	8:52:32	10/22/2011 8:52	0.037
6120	0.022	0.023	0.024	0.032	8:53:32	10/22/2011 8:53	0.039
6180	0.02	0.02	0.021	0.026	8:54:32	10/22/2011 8:54	0.031
6240	0.015	0.015	0.015	0.018	8:55:32	10/22/2011 8:55	0.022
6300	0.019	0.02	0.02	0.024	8:56:32	10/22/2011 8:56	0.028
6360	0.022	0.023	0.024	0.033	8:57:32	10/22/2011 8:57	0.039
6420	0.021	0.021	0.022	0.03	8:58:32	10/22/2011 8:58	0.036
6480	0.018	0.018	0.019	0.024	8:59:32	10/22/2011 8:59	0.026
6540	0.032	0.033	0.035	0.047	9:00:32	10/22/2011 9:00	0.057
6600	0.049	0.051	0.055	0.085	9:01:32	10/22/2011 9:01	0.128
6660	0.082	0.085	0.095	0.166	9:02:32	10/22/2011 9:02	0.266
6720	0.036	0.037	0.04	0.064	9:03:32	10/22/2011 9:03	0.086
6780	0.028	0.028	0.03	0.039	9:04:32	10/22/2011 9:04	0.048
6840	0.015	0.015	0.016	0.021	9:05:32	10/22/2011 9:05	0.023
6900	0.011	0.011	0.012	0.013	9:06:32	10/22/2011 9:06	0.014
6960	0.019	0.019	0.02	0.027	9:07:32	10/22/2011 9:07	0.036
7020	0.036	0.037	0.039	0.057	9:08:32	10/22/2011 9:08	0.079
7080	0.027	0.028	0.03	0.041	9:09:32	10/22/2011 9:09	0.052
7140	0.016	0.016	0.017	0.022	9:10:32	10/22/2011 9:10	0.027
7200	0.026	0.026	0.027	0.038	9:11:32	10/22/2011 9:11	0.052
7260	0.027	0.028	0.029	0.039	9:12:32	10/22/2011 9:12	0.049
7320	0.024	0.025	0.027	0.041	9:13:32	10/22/2011 9:13	0.052
7380	0.023	0.024	0.025	0.035	9:14:32	10/22/2011 9:14	0.046
7440	0.022	0.022	0.024	0.032	9:15:32	10/22/2011 9:15	0.048
7500	0.022	0.023	0.024	0.033	9:16:32	10/22/2011 9:16	0.047
7560	0.025	0.026	0.028	0.039	9:17:32	10/22/2011 9:17	0.053
7620	0.018	0.019	0.02	0.027	9:18:32	10/22/2011 9:18	0.034
7680	0.015	0.016	0.016	0.022	9:19:32	10/22/2011 9:19	0.026
7740	0.017	0.018	0.019	0.025	9:20:32	10/22/2011 9:20	0.03
7800	0.04	0.042	0.047	0.07	9:21:32	10/22/2011 9:21	0.083
7860	0.031	0.032	0.035	0.05	9:22:32	10/22/2011 9:22	0.058
7920	0.035	0.036	0.039	0.053	9:23:32	10/22/2011 9:23	0.063
7980	0.018	0.018	0.02	0.025	9:24:32	10/22/2011 9:24	0.029
8040	0.025	0.026	0.028	0.036	9:25:32	10/22/2011 9:25	0.043
8100	0.017	0.018	0.019	0.028	9:26:32	10/22/2011 9:26	0.033
8160	0.033	0.035	0.038	0.059	9:27:32	10/22/2011 9:27	0.071
8220	0.061	0.064	0.07	0.109	9:28:32	10/22/2011 9:28	0.146
8280	0.024	0.024	0.026	0.033	9:29:32	10/22/2011 9:29	0.038
8340	0.019	0.02	0.021	0.024	9:30:32	10/22/2011 9:30	0.025
8400	0.027	0.028	0.029	0.036	9:31:32	10/22/2011 9:31	0.039
8460	0.02	0.02	0.021	0.027	9:32:32	10/22/2011 9:32	0.031
8520	0.02	0.021	0.022	0.032	9:33:32	10/22/2011 9:33	0.044
8580	0.018	0.019	0.02	0.027	9:34:32	10/22/2011 9:34	0.032
8640	0.023	0.023	0.025	0.032	9:35:32	10/22/2011 9:35	0.035
8700	0.047	0.049	0.052	0.065	9:36:32	10/22/2011 9:36	0.081

8760	0.037	0.038	0.039	0.05	9:37:32	10/22/2011 9:37	0.061
8820	0.024	0.024	0.025	0.032	9:38:32	10/22/2011 9:38	0.043
8880	0.022	0.023	0.024	0.032	9:39:32	10/22/2011 9:39	0.042
8940	0.024	0.025	0.026	0.034	9:40:32	10/22/2011 9:40	0.046
9000	0.017	0.017	0.018	0.022	9:41:32	10/22/2011 9:41	0.026
9060	0.024	0.025	0.026	0.031	9:42:32	10/22/2011 9:42	0.039
9120	0.021	0.022	0.023	0.028	9:43:32	10/22/2011 9:43	0.034
9180	0.016	0.017	0.018	0.024	9:44:32	10/22/2011 9:44	0.026
9240	0.014	0.014	0.015	0.018	9:45:32	10/22/2011 9:45	0.022
9300	0.017	0.018	0.018	0.022	9:46:32	10/22/2011 9:46	0.028
9360	0.017	0.018	0.018	0.022	9:47:32	10/22/2011 9:47	0.025
9420	0.026	0.027	0.028	0.035	9:48:32	10/22/2011 9:48	0.044
9480	0.028	0.029	0.03	0.038	9:49:32	10/22/2011 9:49	0.046
9540	0.027	0.027	0.029	0.036	9:50:32	10/22/2011 9:50	0.043
9600	0.059	0.061	0.065	0.087	9:51:32	10/22/2011 9:51	0.114
9660	0.047	0.049	0.051	0.067	9:52:32	10/22/2011 9:52	0.085
9720	0.03	0.031	0.033	0.042	9:53:32	10/22/2011 9:53	0.053
9780	0.016	0.017	0.018	0.021	9:54:32	10/22/2011 9:54	0.024
9840	0.018	0.018	0.019	0.027	9:55:32	10/22/2011 9:55	0.034
9900	0.024	0.025	0.027	0.037	9:56:32	10/22/2011 9:56	0.05
9960	0.023	0.024	0.026	0.033	9:57:32	10/22/2011 9:57	0.038
10020	0.023	0.023	0.024	0.031	9:58:32	10/22/2011 9:58	0.038
10080	0.024	0.024	0.026	0.031	9:59:32	10/22/2011 9:59	0.036
10140	0.014	0.015	0.015	0.018	10:00:32	10/22/2011 10:00	0.019
10200	0.014	0.014	0.014	0.016	10:01:32	10/22/2011 10:01	0.019
10260	0.038	0.039	0.043	0.068	10:02:32	10/22/2011 10:02	0.097
10320	0.106	0.111	0.124	0.221	10:03:32	10/22/2011 10:03	0.322
10380	0.092	0.095	0.107	0.181	10:04:32	10/22/2011 10:04	0.264
10440	0.078	0.081	0.09	0.146	10:05:32	10/22/2011 10:05	0.204
10500	0.062	0.064	0.07	0.102	10:06:32	10/22/2011 10:06	0.145
10560	0.047	0.049	0.054	0.085	10:07:32	10/22/2011 10:07	0.11
10620	0.032	0.033	0.036	0.056	10:08:32	10/22/2011 10:08	0.071
10680	0.045	0.046	0.05	0.077	10:09:32	10/22/2011 10:09	0.102
10740	0.039	0.04	0.043	0.065	10:10:32	10/22/2011 10:10	0.088
10800	0.019	0.02	0.021	0.026	10:11:32	10/22/2011 10:11	0.033
10860	0.032	0.033	0.035	0.046	10:12:32	10/22/2011 10:12	0.061
10920	0.107	0.112	0.127	0.23	10:13:32	10/22/2011 10:13	0.331
10980	0.143	0.15	0.173	0.321	10:14:32	10/22/2011 10:14	0.474
11040	0.04	0.041	0.046	0.077	10:15:32	10/22/2011 10:15	0.107
11100	0.026	0.026	0.028	0.039	10:16:32	10/22/2011 10:16	0.055
11160	0.019	0.019	0.02	0.027	10:17:32	10/22/2011 10:17	0.032
11220	0.088	0.09	0.096	0.153	10:18:32	10/22/2011 10:18	0.257
11280	0.095	0.097	0.104	0.159	10:19:32	10/22/2011 10:19	0.253
11340	0.068	0.07	0.075	0.117	10:20:32	10/22/2011 10:20	0.17
11400	0.081	0.083	0.089	0.138	10:21:32	10/22/2011 10:21	0.197
11460	0.072	0.074	0.08	0.125	10:22:32	10/22/2011 10:22	0.186
11520	0.027	0.027	0.029	0.041	10:23:32	10/22/2011 10:23	0.059
11580	0.038	0.039	0.042	0.068	10:24:32	10/22/2011 10:24	0.106
11640	0.038	0.039	0.041	0.063	10:25:32	10/22/2011 10:25	0.1
11700	0.029	0.03	0.032	0.046	10:26:32	10/22/2011 10:26	0.066
11760	0.038	0.038	0.04	0.055	10:27:32	10/22/2011 10:27	0.072
11820	0.02	0.02	0.021	0.027	10:28:32	10/22/2011 10:28	0.035
11880	0.095	0.098	0.107	0.177	10:29:32	10/22/2011 10:29	0.267
11940	0.072	0.074	0.08	0.125	10:30:32	10/22/2011 10:30	0.176
12000	0.028	0.029	0.031	0.043	10:31:32	10/22/2011 10:31	0.056
12060	0.021	0.022	0.023	0.032	10:32:32	10/22/2011 10:32	0.038
12120	0.017	0.018	0.019	0.025	10:33:32	10/22/2011 10:33	0.028
12180	0.018	0.018	0.02	0.025	10:34:32	10/22/2011 10:34	0.028
12240	0.113	0.115	0.123	0.227	10:35:32	10/22/2011 10:35	0.382
12300	0.043	0.044	0.048	0.073	10:36:32	10/22/2011 10:36	0.101
12360	0.042	0.043	0.046	0.072	10:37:32	10/22/2011 10:37	0.108
12420	0.027	0.028	0.03	0.042	10:38:32	10/22/2011 10:38	0.047
12480	0.03	0.031	0.033	0.043	10:39:32	10/22/2011 10:39	0.053
12540	0.023	0.023	0.024	0.03	10:40:32	10/22/2011 10:40	0.034
12600	0.02	0.021	0.021	0.029	10:41:32	10/22/2011 10:41	0.035
12660	0.016	0.017	0.017	0.021	10:42:32	10/22/2011 10:42	0.026
12720	0.02	0.02	0.021	0.027	10:43:32	10/22/2011 10:43	0.032
12780	0.02	0.02	0.021	0.028	10:44:32	10/22/2011 10:44	0.031
12840	0.231	0.242	0.277	0.509	10:45:32	10/22/2011 10:45	0.735
12900	0.271	0.282	0.318	0.593	10:46:32	10/22/2011 10:46	0.898
12960	0.187	0.195	0.223	0.429	10:47:32	10/22/2011 10:47	0.64
13020	0.098	0.103	0.117	0.22	10:48:32	10/22/2011 10:48	0.336
13080	0.045	0.047	0.052	0.088	10:49:32	10/22/2011 10:49	0.127
13140	0.065	0.067	0.074	0.12	10:50:32	10/22/2011 10:50	0.169
13200	0.077	0.08	0.088	0.153	10:51:32	10/22/2011 10:51	0.224
13260	0.066	0.068	0.075	0.137	10:52:32	10/22/2011 10:52	0.187
13320	0.026	0.027	0.029	0.044	10:53:32	10/22/2011 10:53	0.056
13380	0.05	0.051	0.056	0.091	10:54:32	10/22/2011 10:54	0.131
13440	0.025	0.025	0.027	0.038	10:55:32	10/22/2011 10:55	0.056
13500	0.023	0.024	0.026	0.036	10:56:32	10/22/2011 10:56	0.044
13560	0.035	0.036	0.039	0.063	10:57:32	10/22/2011 10:57	0.081
13620	0.02	0.021	0.022	0.031	10:58:32	10/22/2011 10:58	0.037
13680	0.022	0.022	0.023	0.031	10:59:32	10/22/2011 10:59	0.039
13740	0.03	0.031	0.033	0.052	11:00:32	10/22/2011 11:00	0.074
13800	0.02	0.021	0.022	0.03	11:01:32	10/22/2011 11:01	0.036
13860	0.016	0.017	0.018	0.022	11:02:32	10/22/2011 11:02	0.027
13920	0.028	0.029	0.031	0.046	11:03:32	10/22/2011 11:03	0.061
13980	0.028	0.029	0.031	0.043	11:04:32	10/22/2011 11:04	0.06
14040	0.024	0.025	0.026	0.035	11:05:32	10/22/2011 11:05	0.043
14100	0.079	0.082	0.091	0.156	11:06:32	10/22/2011 11:06	0.228
14160	0.058	0.06	0.066	0.106	11:07:32	10/22/2011 11:07	0.138

14220	0.14	0.145	0.165	0.318	11:08:32	10/22/2011 11:08	0.472
14280	0.032	0.034	0.037	0.064	11:09:32	10/22/2011 11:09	0.091
14340	0.059	0.061	0.068	0.124	11:10:32	10/22/2011 11:10	0.191
14400	0.021	0.021	0.024	0.037	11:11:32	10/22/2011 11:11	0.046
14460	0.031	0.033	0.038	0.066	11:12:32	10/22/2011 11:12	0.083
14520	0.014	0.015	0.016	0.023	11:13:32	10/22/2011 11:13	0.031
14580	0.008	0.009	0.009	0.012	11:14:32	10/22/2011 11:14	0.015
14640	0.015	0.016	0.017	0.023	11:15:32	10/22/2011 11:15	0.031
14700	0.01	0.01	0.011	0.015	11:16:32	10/22/2011 11:16	0.018
14760	0.017	0.017	0.019	0.029	11:17:32	10/22/2011 11:17	0.034
14820	0.017	0.018	0.02	0.028	11:18:32	10/22/2011 11:18	0.035
14880	0.014	0.015	0.016	0.022	11:19:32	10/22/2011 11:19	0.026
14940	0.02	0.021	0.022	0.031	11:20:32	10/22/2011 11:20	0.037
15000	0.017	0.018	0.019	0.026	11:21:32	10/22/2011 11:21	0.033
15060	0.031	0.033	0.039	0.068	11:22:32	10/22/2011 11:22	0.089
15120	0.021	0.022	0.025	0.036	11:23:32	10/22/2011 11:23	0.041
15180	0.017	0.017	0.018	0.024	11:24:32	10/22/2011 11:24	0.028
15240	0.024	0.025	0.027	0.042	11:25:32	10/22/2011 11:25	0.056
15300	0.037	0.038	0.041	0.074	11:26:32	10/22/2011 11:26	0.107
15360	0.019	0.019	0.02	0.028	11:27:32	10/22/2011 11:27	0.033
15420	0.02	0.02	0.022	0.035	11:28:32	10/22/2011 11:28	0.052
15480	0.012	0.012	0.013	0.02	11:29:32	10/22/2011 11:29	0.026
15540	0.018	0.018	0.019	0.028	11:30:32	10/22/2011 11:30	0.037
15600	0.028	0.029	0.031	0.047	11:31:32	10/22/2011 11:31	0.071
15660	0.032	0.033	0.037	0.065	11:32:32	10/22/2011 11:32	0.097
15720	0.026	0.027	0.029	0.046	11:33:32	10/22/2011 11:33	0.064
15780	0.019	0.019	0.021	0.032	11:34:32	10/22/2011 11:34	0.042
15840	0.025	0.025	0.028	0.048	11:35:32	10/22/2011 11:35	0.062
15900	0.013	0.013	0.014	0.02	11:36:32	10/22/2011 11:36	0.026
15960	0.019	0.02	0.021	0.033	11:37:32	10/22/2011 11:37	0.053
16020	0.009	0.009	0.01	0.012	11:38:32	10/22/2011 11:38	0.013
16080	0.017	0.017	0.018	0.024	11:39:32	10/22/2011 11:39	0.028
16140	0.016	0.017	0.018	0.023	11:40:32	10/22/2011 11:40	0.03
16200	0.016	0.016	0.017	0.025	11:41:32	10/22/2011 11:41	0.034
16260	0.025	0.026	0.029	0.045	11:42:32	10/22/2011 11:42	0.06
16320	0.088	0.092	0.107	0.2	11:43:32	10/22/2011 11:43	0.288
16380	0.018	0.019	0.021	0.033	11:44:32	10/22/2011 11:44	0.044
16440	0.013	0.014	0.014	0.019	11:45:32	10/22/2011 11:45	0.023
16500	0.017	0.018	0.02	0.032	11:46:32	10/22/2011 11:46	0.043
16560	0.021	0.021	0.023	0.04	11:47:32	10/22/2011 11:47	0.058
16620	0.033	0.035	0.04	0.07	11:48:32	10/22/2011 11:48	0.092
16680	0.023	0.024	0.027	0.044	11:49:32	10/22/2011 11:49	0.057
16740	0.023	0.024	0.026	0.041	11:50:32	10/22/2011 11:50	0.054
16800	0.023	0.023	0.026	0.042	11:51:32	10/22/2011 11:51	0.056
16860	0.027	0.029	0.032	0.054	11:52:32	10/22/2011 11:52	0.074
16920	0.126	0.129	0.143	0.295	11:53:32	10/22/2011 11:53	0.453
16980	0.015	0.016	0.018	0.029	11:54:32	10/22/2011 11:54	0.037
17040	0.01	0.011	0.012	0.018	11:55:32	10/22/2011 11:55	0.021
17100	0.01	0.01	0.01	0.016	11:56:32	10/22/2011 11:56	0.02
17160	0.01	0.01	0.011	0.016	11:57:32	10/22/2011 11:57	0.019
17220	0.008	0.008	0.008	0.01	11:58:32	10/22/2011 11:58	0.011
17280	0.016	0.016	0.017	0.026	11:59:32	10/22/2011 11:59	0.032
17340	0.017	0.018	0.019	0.028	12:00:32	10/22/2011 12:00	0.034
17400	0.027	0.028	0.03	0.052	12:01:32	10/22/2011 12:01	0.072
17460	0.021	0.022	0.023	0.034	12:02:32	10/22/2011 12:02	0.044
17520	0.018	0.019	0.02	0.031	12:03:32	10/22/2011 12:03	0.041
17580	0.133	0.138	0.155	0.292	12:04:32	10/22/2011 12:04	0.443
17640	0.035	0.036	0.04	0.079	12:05:32	10/22/2011 12:05	0.113
17700	0.026	0.027	0.03	0.048	12:06:32	10/22/2011 12:06	0.065
17760	0.022	0.023	0.025	0.043	12:07:32	10/22/2011 12:07	0.059
17820	0.02	0.021	0.023	0.037	12:08:32	10/22/2011 12:08	0.05
17880	0.011	0.011	0.011	0.015	12:09:32	10/22/2011 12:09	0.018
17940	0.009	0.009	0.01	0.012	12:10:32	10/22/2011 12:10	0.014
18000	0.02	0.02	0.022	0.035	12:11:32	10/22/2011 12:11	0.049
18060	0.22	0.23	0.261	0.496	12:12:32	10/22/2011 12:12	0.743
18120	0.132	0.137	0.155	0.289	12:13:32	10/22/2011 12:13	0.448
18180	0.02	0.021	0.023	0.037	12:14:32	10/22/2011 12:14	0.05
18240	0.018	0.019	0.021	0.034	12:15:32	10/22/2011 12:15	0.044
18300	0.011	0.011	0.012	0.017	12:16:32	10/22/2011 12:16	0.021
18360	0.007	0.007	0.008	0.01	12:17:32	10/22/2011 12:17	0.01
18420	0.015	0.015	0.017	0.028	12:18:32	10/22/2011 12:18	0.035
18480	0.02	0.021	0.024	0.041	12:19:32	10/22/2011 12:19	0.052
18540	0.022	0.023	0.027	0.044	12:20:32	10/22/2011 12:20	0.057
18600	0.017	0.017	0.019	0.03	12:21:32	10/22/2011 12:21	0.04
18660	0.019	0.019	0.022	0.035	12:22:32	10/22/2011 12:22	0.046
18720	0.019	0.02	0.022	0.035	12:23:32	10/22/2011 12:23	0.045
18780	0.015	0.016	0.017	0.027	12:24:32	10/22/2011 12:24	0.033
18840	0.009	0.01	0.01	0.012	12:25:32	10/22/2011 12:25	0.013
18900	0.009	0.009	0.01	0.011	12:26:32	10/22/2011 12:26	0.013
18960	0.042	0.043	0.047	0.077	12:27:32	10/22/2011 12:27	0.121
19020	0.093	0.097	0.112	0.213	12:28:32	10/22/2011 12:28	0.304
19080	0.038	0.04	0.045	0.079	12:29:32	10/22/2011 12:29	0.111
19140	0.021	0.022	0.024	0.04	12:30:32	10/22/2011 12:30	0.053
19200	0.021	0.022	0.024	0.037	12:31:32	10/22/2011 12:31	0.049
19260	0.016	0.016	0.018	0.026	12:32:32	10/22/2011 12:32	0.031
19320	0.029	0.03	0.032	0.048	12:33:32	10/22/2011 12:33	0.069
19380	0.028	0.029	0.031	0.045	12:34:32	10/22/2011 12:34	0.068
19440	0.026	0.027	0.029	0.051	12:35:32	10/22/2011 12:35	0.071
19500	0.033	0.034	0.037	0.063	12:36:32	10/22/2011 12:36	0.088
19560	0.037	0.039	0.042	0.066	12:37:32	10/22/2011 12:37	0.097
19620	0.044	0.046	0.051	0.084	12:38:32	10/22/2011 12:38	0.115

19680	0.052	0.054	0.059	0.103	12:39:32	10/22/2011 12:39	0.161
19740	0.07	0.072	0.079	0.155	12:40:32	10/22/2011 12:40	0.263
19800	0.014	0.014	0.015	0.024	12:41:32	10/22/2011 12:41	0.034
19860	0.015	0.016	0.017	0.028	12:42:32	10/22/2011 12:42	0.037
19920	0.025	0.026	0.028	0.046	12:43:32	10/22/2011 12:43	0.064
19980	0.035	0.036	0.04	0.071	12:44:32	10/22/2011 12:44	0.107
20040	0.018	0.019	0.021	0.03	12:45:32	10/22/2011 12:45	0.037
20100	0.021	0.021	0.023	0.032	12:46:32	10/22/2011 12:46	0.04
20160	0.021	0.021	0.023	0.037	12:47:32	10/22/2011 12:47	0.051
20220	0.046	0.046	0.047	0.052	12:48:32	10/22/2011 12:48	0.059
20280	0.098	0.099	0.102	0.146	12:49:32	10/22/2011 12:49	0.212
20340	0.013	0.013	0.014	0.018	12:50:32	10/22/2011 12:50	0.018
20400	0.023	0.024	0.026	0.043	12:51:32	10/22/2011 12:51	0.054
20460	0.233	0.242	0.271	0.476	12:52:32	10/22/2011 12:52	0.668
20520	0.07	0.073	0.084	0.151	12:53:32	10/22/2011 12:53	0.219
20580	0.03	0.032	0.035	0.059	12:54:32	10/22/2011 12:54	0.087
20640	0.061	0.064	0.072	0.127	12:55:32	10/22/2011 12:55	0.194
20700	0.051	0.053	0.059	0.103	12:56:32	10/22/2011 12:56	0.156
20760	0.017	0.017	0.018	0.029	12:57:32	10/22/2011 12:57	0.043
20820	0.018	0.019	0.021	0.036	12:58:32	10/22/2011 12:58	0.049
20880	0.017	0.017	0.019	0.03	12:59:32	10/22/2011 12:59	0.042
20940	0.017	0.018	0.02	0.031	13:00:32	10/22/2011 13:00	0.04
21000	0.043	0.044	0.05	0.09	13:01:32	10/22/2011 13:01	0.127
21060	0.019	0.02	0.022	0.037	13:02:32	10/22/2011 13:02	0.048
21120	0.019	0.02	0.021	0.032	13:03:32	10/22/2011 13:03	0.04
21180	0.026	0.027	0.03	0.053	13:04:32	10/22/2011 13:04	0.068
21240	0.017	0.018	0.02	0.033	13:05:32	10/22/2011 13:05	0.04
21300	0.047	0.049	0.054	0.087	13:06:32	10/22/2011 13:06	0.114
21360	0.027	0.028	0.03	0.048	13:07:32	10/22/2011 13:07	0.071
21420	0.042	0.044	0.049	0.082	13:08:32	10/22/2011 13:08	0.111
21480	0.032	0.034	0.037	0.055	13:09:32	10/22/2011 13:09	0.069
21540	0.026	0.027	0.029	0.046	13:10:32	10/22/2011 13:10	0.059
21600	0.036	0.038	0.043	0.072	13:11:32	10/22/2011 13:11	0.09
21660	0.071	0.074	0.083	0.148	13:12:32	10/22/2011 13:12	0.222
21720	0.027	0.028	0.033	0.054	13:13:32	10/22/2011 13:13	0.073
21780	0.036	0.037	0.042	0.073	13:14:32	10/22/2011 13:14	0.098
21840	0.023	0.024	0.026	0.043	13:15:32	10/22/2011 13:15	0.057
21900	0.031	0.032	0.035	0.057	13:16:32	10/22/2011 13:16	0.083
21960	0.035	0.036	0.04	0.074	13:17:32	10/22/2011 13:17	0.103
22020	0.022	0.023	0.025	0.038	13:18:32	10/22/2011 13:18	0.054
22080	0.073	0.075	0.083	0.158	13:19:32	10/22/2011 13:19	0.229
22140	0.032	0.033	0.037	0.075	13:20:32	10/22/2011 13:20	0.103
22200	0.015	0.015	0.016	0.026	13:21:32	10/22/2011 13:21	0.033
22260	0.021	0.021	0.023	0.038	13:22:32	10/22/2011 13:22	0.05
22320	0.021	0.022	0.024	0.035	13:23:32	10/22/2011 13:23	0.046
22380	0.015	0.016	0.017	0.025	13:24:32	10/22/2011 13:24	0.031
22440	0.014	0.014	0.015	0.022	13:25:32	10/22/2011 13:25	0.029
22500	0.016	0.016	0.018	0.026	13:26:32	10/22/2011 13:26	0.037
22560	0.013	0.014	0.015	0.021	13:27:32	10/22/2011 13:27	0.028
22620	0.014	0.014	0.015	0.021	13:28:32	10/22/2011 13:28	0.026
22680	0.014	0.014	0.015	0.021	13:29:32	10/22/2011 13:29	0.026
22740	0.012	0.012	0.013	0.017	13:30:32	10/22/2011 13:30	0.02
22800	0.013	0.013	0.014	0.018	13:31:32	10/22/2011 13:31	0.022
22860	0.008	0.008	0.008	0.01	13:32:32	10/22/2011 13:32	0.011
22920	0.013	0.014	0.014	0.019	13:33:32	10/22/2011 13:33	0.022
22980	0.014	0.015	0.016	0.025	13:34:32	10/22/2011 13:34	0.03
23040	0.025	0.026	0.03	0.05	13:35:32	10/22/2011 13:35	0.063
23100	0.022	0.024	0.027	0.044	13:36:32	10/22/2011 13:36	0.053
23160	0.019	0.019	0.021	0.035	13:37:32	10/22/2011 13:37	0.043
23220	0.011	0.012	0.013	0.018	13:38:32	10/22/2011 13:38	0.023
23280	0.032	0.033	0.037	0.063	13:39:32	10/22/2011 13:39	0.088
23340	0.018	0.018	0.02	0.034	13:40:32	10/22/2011 13:40	0.044
23400	0.033	0.035	0.04	0.07	13:41:32	10/22/2011 13:41	0.094
23460	0.026	0.027	0.029	0.048	13:42:32	10/22/2011 13:42	0.066
23520	0.028	0.028	0.031	0.053	13:43:32	10/22/2011 13:43	0.082
23580	0.017	0.017	0.019	0.031	13:44:32	10/22/2011 13:44	0.043
23640	0.02	0.021	0.024	0.036	13:45:32	10/22/2011 13:45	0.047
23700	0.013	0.013	0.014	0.019	13:46:32	10/22/2011 13:46	0.024
23760	0.018	0.019	0.021	0.035	13:47:32	10/22/2011 13:47	0.046
23820	0.017	0.018	0.02	0.033	13:48:32	10/22/2011 13:48	0.046
23880	0.025	0.026	0.029	0.047	13:49:32	10/22/2011 13:49	0.061
23940	0.012	0.013	0.014	0.02	13:50:32	10/22/2011 13:50	0.023
24000	0.013	0.013	0.014	0.019	13:51:32	10/22/2011 13:51	0.024
24060	0.011	0.011	0.012	0.016	13:52:32	10/22/2011 13:52	0.018
24120	0.01	0.01	0.011	0.013	13:53:32	10/22/2011 13:53	0.018
24180	0.017	0.017	0.018	0.025	13:54:32	10/22/2011 13:54	0.037
24240	0.009	0.01	0.011	0.014	13:55:32	10/22/2011 13:55	0.015
24300	0.014	0.015	0.016	0.024	13:56:32	10/22/2011 13:56	0.029
24360	0.121	0.125	0.14	0.251	13:57:32	10/22/2011 13:57	0.362
24420	0.097	0.101	0.117	0.226	13:58:32	10/22/2011 13:58	0.323
24480	0.157	0.166	0.194	0.357	13:59:32	10/22/2011 13:59	0.491
24540	0.073	0.077	0.089	0.165	14:00:32	10/22/2011 14:00	0.224
24600	0.19	0.199	0.227	0.431	14:01:32	10/22/2011 14:01	0.59
24660	0.051	0.054	0.061	0.105	14:02:32	10/22/2011 14:02	0.137
24720	0.04	0.042	0.047	0.083	14:03:32	10/22/2011 14:03	0.121
24780	0.051	0.053	0.06	0.107	14:04:32	10/22/2011 14:04	0.154
24840	0.101	0.104	0.116	0.22	14:05:32	10/22/2011 14:05	0.321
24900	0.056	0.058	0.064	0.116	14:06:32	10/22/2011 14:06	0.172
24960	0.045	0.046	0.05	0.084	14:07:32	10/22/2011 14:07	0.119
25020	0.025	0.025	0.027	0.043	14:08:32	10/22/2011 14:08	0.056
25080	0.02	0.02	0.021	0.031	14:09:32	10/22/2011 14:09	0.04

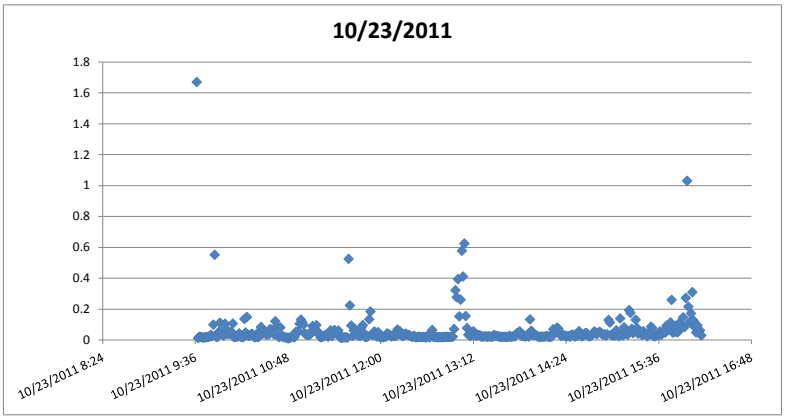
25140	0.019	0.02	0.021	0.028	14:10:32	10/22/2011 14:10	0.034
25200	0.013	0.014	0.014	0.019	14:11:32	10/22/2011 14:11	0.024
25260	0.022	0.022	0.024	0.034	14:12:32	10/22/2011 14:12	0.043
25320	0.032	0.033	0.036	0.058	14:13:32	10/22/2011 14:13	0.082
25380	0.033	0.034	0.036	0.05	14:14:32	10/22/2011 14:14	0.064
25440	0.033	0.033	0.035	0.045	14:15:32	10/22/2011 14:15	0.053
25500	0.026	0.027	0.028	0.04	14:16:32	10/22/2011 14:16	0.049
25560	0.025	0.025	0.027	0.039	14:17:32	10/22/2011 14:17	0.049
25620	0.015	0.016	0.016	0.021	14:18:32	10/22/2011 14:18	0.023
25680	0.013	0.014	0.014	0.018	14:19:32	10/22/2011 14:19	0.024
25740	0.017	0.017	0.018	0.027	14:20:32	10/22/2011 14:20	0.033
25800	0.034	0.035	0.036	0.045	14:21:32	10/22/2011 14:21	0.052
25860	0.028	0.029	0.031	0.043	14:22:32	10/22/2011 14:22	0.053
25920	0.031	0.032	0.035	0.054	14:23:32	10/22/2011 14:23	0.078
25980	0.018	0.019	0.02	0.027	14:24:32	10/22/2011 14:24	0.036
26040	0.016	0.016	0.017	0.024	14:25:32	10/22/2011 14:25	0.032
26100	0.016	0.016	0.017	0.024	14:26:32	10/22/2011 14:26	0.028
26160	0.026	0.027	0.03	0.047	14:27:32	10/22/2011 14:27	0.057
26220	0.034	0.036	0.04	0.067	14:28:32	10/22/2011 14:28	0.097
26280	0.101	0.106	0.122	0.22	14:29:32	10/22/2011 14:29	0.321
26340	0.043	0.045	0.05	0.085	14:30:32	10/22/2011 14:30	0.122
26400	0.023	0.024	0.026	0.039	14:31:32	10/22/2011 14:31	0.056
26460	0.019	0.02	0.022	0.035	14:32:32	10/22/2011 14:32	0.044
26520	0.071	0.073	0.08	0.157	14:33:32	10/22/2011 14:33	0.236
26580	0.022	0.023	0.025	0.041	14:34:32	10/22/2011 14:34	0.051
26640	0.025	0.026	0.029	0.039	14:35:32	10/22/2011 14:35	0.051
26700	0.021	0.022	0.024	0.035	14:36:32	10/22/2011 14:36	0.044
26760	0.052	0.054	0.062	0.104	14:37:32	10/22/2011 14:37	0.143
26820	0.118	0.122	0.137	0.269	14:38:32	10/22/2011 14:38	0.377
26880	0.092	0.097	0.111	0.202	14:39:32	10/22/2011 14:39	0.301
26940	0.047	0.05	0.057	0.102	14:40:32	10/22/2011 14:40	0.146
27000	0.044	0.046	0.052	0.097	14:41:32	10/22/2011 14:41	0.135
27060	0.016	0.016	0.018	0.026	14:42:32	10/22/2011 14:42	0.032
27120	0.104	0.106	0.108	0.123	14:43:32	10/22/2011 14:43	0.141
27180	0.016	0.016	0.017	0.023	14:44:32	10/22/2011 14:44	0.028
27240	0.025	0.026	0.028	0.039	14:45:32	10/22/2011 14:45	0.053
27300	0.023	0.024	0.025	0.037	14:46:32	10/22/2011 14:46	0.049
27360	0.016	0.017	0.018	0.025	14:47:32	10/22/2011 14:47	0.034
27420	0.01	0.011	0.011	0.013	14:48:32	10/22/2011 14:48	0.015
27480	0.014	0.015	0.016	0.023	14:49:32	10/22/2011 14:49	0.029
27540	0.015	0.015	0.016	0.023	14:50:32	10/22/2011 14:50	0.028
27600	0.051	0.053	0.059	0.108	14:51:32	10/22/2011 14:51	0.164
27660	0.019	0.02	0.021	0.036	14:52:32	10/22/2011 14:52	0.048
27720	0.018	0.019	0.02	0.029	14:53:32	10/22/2011 14:53	0.039
27780	0.013	0.013	0.014	0.019	14:54:32	10/22/2011 14:54	0.023
27840	0.014	0.014	0.015	0.022	14:55:32	10/22/2011 14:55	0.032
27900	0.019	0.02	0.021	0.03	14:56:32	10/22/2011 14:56	0.043
27960	0.021	0.022	0.023	0.034	14:57:32	10/22/2011 14:57	0.047
28020	0.016	0.017	0.018	0.027	14:58:32	10/22/2011 14:58	0.034
28080	0.015	0.016	0.017	0.025	14:59:32	10/22/2011 14:59	0.033
28140	0.039	0.041	0.046	0.084	15:00:32	10/22/2011 15:00	0.114
28200	0.031	0.032	0.036	0.062	15:01:32	10/22/2011 15:01	0.087
28260	0.014	0.014	0.015	0.022	15:02:32	10/22/2011 15:02	0.03
28320	0.022	0.022	0.024	0.038	15:03:32	10/22/2011 15:03	0.052
28380	0.016	0.016	0.017	0.024	15:04:32	10/22/2011 15:04	0.028
28440	0.015	0.016	0.017	0.024	15:05:32	10/22/2011 15:05	0.026
28500	0.02	0.02	0.022	0.032	15:06:32	10/22/2011 15:06	0.049
28560	0.012	0.012	0.012	0.015	15:07:32	10/22/2011 15:07	0.02
28620	0.016	0.017	0.018	0.027	15:08:32	10/22/2011 15:08	0.035
28680	0.033	0.034	0.037	0.068	15:09:32	10/22/2011 15:09	0.099
28740	0.018	0.018	0.02	0.033	15:10:32	10/22/2011 15:10	0.049
28800	0.014	0.014	0.015	0.02	15:11:32	10/22/2011 15:11	0.024
28860	0.016	0.016	0.018	0.027	15:12:32	10/22/2011 15:12	0.033
28920	0.085	0.088	0.1	0.196	15:13:32	10/22/2011 15:13	0.291
28980	0.024	0.024	0.026	0.045	15:14:32	10/22/2011 15:14	0.067
29040	0.057	0.059	0.065	0.129	15:15:32	10/22/2011 15:15	0.208
29100	0.082	0.084	0.093	0.188	15:16:32	10/22/2011 15:16	0.276
29160	0.031	0.032	0.034	0.06	15:17:32	10/22/2011 15:17	0.087
29220	0.123	0.126	0.139	0.282	15:18:32	10/22/2011 15:18	0.404
29280	0.034	0.035	0.038	0.061	15:19:32	10/22/2011 15:19	0.085
29340	0.017	0.017	0.018	0.025	15:20:32	10/22/2011 15:20	0.031
29400	0.014	0.014	0.015	0.022	15:21:32	10/22/2011 15:21	0.026
29460	0.044	0.045	0.05	0.091	15:22:32	10/22/2011 15:22	0.13
29520	0.018	0.018	0.02	0.03	15:23:32	10/22/2011 15:23	0.041
29580	0.016	0.016	0.017	0.024	15:24:32	10/22/2011 15:24	0.031
29640	0.02	0.02	0.021	0.029	15:25:32	10/22/2011 15:25	0.036
29700	0.023	0.024	0.025	0.035	15:26:32	10/22/2011 15:26	0.048
29760	0.021	0.021	0.022	0.026	15:27:32	10/22/2011 15:27	0.031
29820	0.025	0.026	0.027	0.041	15:28:32	10/22/2011 15:28	0.055
29880	0.046	0.048	0.053	0.082	15:29:32	10/22/2011 15:29	0.112
29940	0.052	0.056	0.066	0.104	15:30:32	10/22/2011 15:30	0.129
30000	0.034	0.037	0.042	0.064	15:31:32	10/22/2011 15:31	0.08
30060	0.027	0.029	0.032	0.045	15:32:32	10/22/2011 15:32	0.057
30120	0.02	0.021	0.024	0.037	15:33:32	10/22/2011 15:33	0.051
30180	0.031	0.033	0.038	0.061	15:34:32	10/22/2011 15:34	0.081
30240	0.016	0.016	0.018	0.025	15:35:32	10/22/2011 15:35	0.03
30300	0.02	0.02	0.021	0.032	15:36:32	10/22/2011 15:36	0.042
30360	0.017	0.017	0.018	0.021	15:37:32	10/22/2011 15:37	0.026
30420	0.015	0.015	0.016	0.019	15:38:32	10/22/2011 15:38	0.022
30480	0.015	0.016	0.016	0.021	15:39:32	10/22/2011 15:39	0.025
30540	0.013	0.013	0.013	0.017	15:40:32	10/22/2011 15:40	0.02

30600	0.014	0.014	0.014	0.016	15:41:32	10/22/2011 15:41	0.021
30660	0.017	0.017	0.018	0.024	15:42:32	10/22/2011 15:42	0.029
30720	0.013	0.013	0.014	0.018	15:43:32	10/22/2011 15:43	0.021
30780	0.013	0.013	0.013	0.016	15:44:32	10/22/2011 15:44	0.016
30840	0.015	0.015	0.016	0.019	15:45:32	10/22/2011 15:45	0.021
30900	0.021	0.021	0.023	0.035	15:46:32	10/22/2011 15:46	0.04
30960	0.016	0.016	0.017	0.02	15:47:32	10/22/2011 15:47	0.024
31020	0.013	0.013	0.014	0.017	15:48:32	10/22/2011 15:48	0.02
31080	0.015	0.015	0.016	0.023	15:49:32	10/22/2011 15:49	0.031
31140	0.011	0.011	0.012	0.016	15:50:32	10/22/2011 15:50	0.018
31200	0.018	0.018	0.02	0.031	15:51:32	10/22/2011 15:51	0.044
31260	0.013	0.013	0.014	0.019	15:52:32	10/22/2011 15:52	0.024
31320	0.009	0.01	0.01	0.012	15:53:32	10/22/2011 15:53	0.014
31380	0.041	0.043	0.049	0.1	15:54:32	10/22/2011 15:54	0.134
31440	0.015	0.015	0.016	0.022	15:55:32	10/22/2011 15:55	0.027
31500	0.069	0.072	0.081	0.164	15:56:32	10/22/2011 15:56	0.231
31560	0.023	0.023	0.025	0.042	15:57:32	10/22/2011 15:57	0.059
31620	0.027	0.028	0.03	0.053	15:58:32	10/22/2011 15:58	0.072
31680	0.017	0.017	0.018	0.027	15:59:32	10/22/2011 15:59	0.035
31740	0.011	0.011	0.012	0.014	16:00:32	10/22/2011 16:00	0.017
31800	0.011	0.011	0.012	0.014	16:01:32	10/22/2011 16:01	0.017
31860	0.013	0.013	0.014	0.019	16:02:32	10/22/2011 16:02	0.02
31920	0.016	0.017	0.017	0.023	16:03:32	10/22/2011 16:03	0.027
31980	0.015	0.016	0.017	0.024	16:04:32	10/22/2011 16:04	0.03
32040	0.013	0.014	0.014	0.019	16:05:32	10/22/2011 16:05	0.021
32100	0.012	0.013	0.013	0.016	16:06:32	10/22/2011 16:06	0.018
32160	0.017	0.018	0.019	0.029	16:07:32	10/22/2011 16:07	0.034
32220	0.013	0.013	0.014	0.018	16:08:32	10/22/2011 16:08	0.022
32280	0.009	0.009	0.009	0.012	16:09:32	10/22/2011 16:09	0.013
32340	0.015	0.015	0.016	0.019	16:10:32	10/22/2011 16:10	0.021
32400	0.016	0.016	0.017	0.024	16:11:32	10/22/2011 16:11	0.029
32460	0.014	0.014	0.015	0.017	16:12:32	10/22/2011 16:12	0.021
32520	0.018	0.018	0.02	0.03	16:13:32	10/22/2011 16:13	0.041
32580	0.019	0.019	0.021	0.033	16:14:32	10/22/2011 16:14	0.047
32640	0.021	0.022	0.023	0.038	16:15:32	10/22/2011 16:15	0.05
32700	0.013	0.013	0.014	0.019	16:16:32	10/22/2011 16:16	0.028
32760	0.008	0.008	0.009	0.012	16:17:32	10/22/2011 16:17	0.014
32820	0.014	0.015	0.015	0.02	16:18:32	10/22/2011 16:18	0.023
32880	0.017	0.017	0.017	0.021	16:19:32	10/22/2011 16:19	0.025
32940	0.01	0.01	0.011	0.012	16:20:32	10/22/2011 16:20	0.013
33000	0.011	0.011	0.012	0.015	16:21:32	10/22/2011 16:21	0.017
33060	0.008	0.008	0.008	0.01	16:22:32	10/22/2011 16:22	0.01
33120	0.01	0.01	0.01	0.012	16:23:32	10/22/2011 16:23	0.012
33180	0.016	0.017	0.017	0.02	16:24:32	10/22/2011 16:24	0.025
33240	0.012	0.012	0.012	0.014	16:25:32	10/22/2011 16:25	0.015
33300	0.018	0.019	0.02	0.025	16:26:32	10/22/2011 16:26	0.031
33360	0.017	0.017	0.018	0.021	16:27:32	10/22/2011 16:27	0.024
33420	0.018	0.019	0.02	0.029	16:28:32	10/22/2011 16:28	0.038
33480	0.02	0.021	0.022	0.028	16:29:32	10/22/2011 16:29	0.035
33540	0.023	0.024	0.025	0.035	16:30:32	10/22/2011 16:30	0.045
33600	0.026	0.027	0.028	0.037	16:31:32	10/22/2011 16:31	0.046
33660	0.025	0.025	0.026	0.035	16:32:32	10/22/2011 16:32	0.043
33720	0.021	0.022	0.023	0.035	16:33:32	10/22/2011 16:33	0.048
33780	0.016	0.017	0.018	0.023	16:34:32	10/22/2011 16:34	0.027
33840	0.017	0.017	0.018	0.025	16:35:32	10/22/2011 16:35	0.029
33900	0.019	0.02	0.021	0.027	16:36:32	10/22/2011 16:36	0.032
33960	0.013	0.014	0.015	0.02	16:37:32	10/22/2011 16:37	0.023
34020	0.017	0.017	0.018	0.025	16:38:32	10/22/2011 16:38	0.029
34080	0.012	0.012	0.013	0.015	16:39:32	10/22/2011 16:39	0.018
34140	0.013	0.013	0.014	0.018	16:40:32	10/22/2011 16:40	0.019
34200	0.02	0.02	0.022	0.034	16:41:32	10/22/2011 16:41	0.044
34260	0.014	0.015	0.015	0.02	16:42:32	10/22/2011 16:42	0.026
34320	0.015	0.015	0.016	0.022	16:43:32	10/22/2011 16:43	0.026
34380	0.015	0.015	0.016	0.021	16:44:32	10/22/2011 16:44	0.025
34440	0.014	0.015	0.015	0.018	16:45:32	10/22/2011 16:45	0.02
34500	0.027	0.027	0.029	0.045	16:46:32	10/22/2011 16:46	0.063
34560	0.018	0.018	0.02	0.027	16:47:32	10/22/2011 16:47	0.034
34620	0.015	0.015	0.016	0.022	16:48:32	10/22/2011 16:48	0.027
34680	0.013	0.013	0.014	0.017	16:49:32	10/22/2011 16:49	0.02
34740	0.01	0.01	0.01	0.012	16:50:32	10/22/2011 16:50	0.014
34800	0.012	0.013	0.013	0.017	16:51:32	10/22/2011 16:51	0.02
34860	0.012	0.012	0.013	0.016	16:52:32	10/22/2011 16:52	0.019
34920	0.018	0.018	0.019	0.027	16:53:32	10/22/2011 16:53	0.031
34980	0.013	0.013	0.014	0.019	16:54:32	10/22/2011 16:54	0.022
35040	0.011	0.012	0.012	0.013	16:55:32	10/22/2011 16:55	0.016
35100	0.016	0.016	0.017	0.019	16:56:32	10/22/2011 16:56	0.022
35160	0.012	0.012	0.013	0.016	16:57:32	10/22/2011 16:57	0.019
35220	0.013	0.013	0.014	0.017	16:58:32	10/22/2011 16:58	0.019
35280	0.014	0.015	0.016	0.018	16:59:32	10/22/2011 16:59	0.023
35340	0.012	0.013	0.013	0.018	17:00:32	10/22/2011 17:00	0.021
35400	0.019	0.019	0.02	0.025	17:01:32	10/22/2011 17:01	0.03
35460	0.016	0.017	0.018	0.024	17:02:32	10/22/2011 17:02	0.029
35520	0.05	0.051	0.055	0.088	17:03:32	10/22/2011 17:03	0.122
35580	0.119	0.122	0.133	0.218	17:04:32	10/22/2011 17:04	0.289
35640	0.016	0.016	0.017	0.023	17:05:32	10/22/2011 17:05	0.028
35700	0.018	0.018	0.019	0.025	17:06:32	10/22/2011 17:06	0.029
35760	0.05	0.052	0.058	0.094	17:07:32	10/22/2011 17:07	0.132
35820	0.033	0.035	0.039	0.068	17:08:32	10/22/2011 17:08	0.091
35880	0.015	0.016	0.017	0.022	17:09:32	10/22/2011 17:09	0.027
35940	0.012	0.012	0.013	0.015	17:10:32	10/22/2011 17:10	0.018
36000	0.019	0.019	0.019	0.021	17:11:32	10/22/2011 17:11	0.022

36060	0.024	0.024	0.025	0.029	17:12:32	10/22/2011 17:12	0.034
36120	0.063	0.065	0.068	0.097	17:13:32	10/22/2011 17:13	0.128
36180	0.025	0.026	0.027	0.033	17:14:32	10/22/2011 17:14	0.044
36240	0.017	0.018	0.018	0.026	17:15:32	10/22/2011 17:15	0.033
36300	0.014	0.014	0.014	0.016	17:16:32	10/22/2011 17:16	0.021
36360	0.021	0.022	0.024	0.041	17:17:32	10/22/2011 17:17	0.054
36420	0.014	0.014	0.015	0.023	17:18:32	10/22/2011 17:18	0.026
36480	0.013	0.013	0.014	0.019	17:19:32	10/22/2011 17:19	0.022
36540	0.013	0.013	0.014	0.021	17:20:32	10/22/2011 17:20	0.024
36600	0.021	0.022	0.025	0.042	17:21:32	10/22/2011 17:21	0.055
36660	0.048	0.049	0.052	0.08	17:22:32	10/22/2011 17:22	0.108
36720	0.017	0.017	0.018	0.026	17:23:32	10/22/2011 17:23	0.034
36780	0.015	0.015	0.016	0.024	17:24:32	10/22/2011 17:24	0.033
36840	0.011	0.011	0.011	0.014	17:25:32	10/22/2011 17:25	0.016
36900	0.013	0.013	0.013	0.02	17:26:32	10/22/2011 17:26	0.028
36960	0.02	0.02	0.022	0.034	17:27:32	10/22/2011 17:27	0.049
37020	0.042	0.044	0.047	0.08	17:28:32	10/22/2011 17:28	0.117
37080	0.012	0.012	0.012	0.017	17:29:32	10/22/2011 17:29	0.021
37140	0.034	0.035	0.039	0.077	17:30:32	10/22/2011 17:30	0.112
37200	0.016	0.017	0.018	0.026	17:31:32	10/22/2011 17:31	0.032
37260	0.017	0.018	0.018	0.024	17:32:32	10/22/2011 17:32	0.029
37320	0.011	0.011	0.011	0.014	17:33:32	10/22/2011 17:33	0.017
37380	0.013	0.013	0.014	0.017	17:34:32	10/22/2011 17:34	0.024
37440	0.011	0.011	0.011	0.015	17:35:32	10/22/2011 17:35	0.017
37500	0.015	0.015	0.016	0.018	17:36:32	10/22/2011 17:36	0.018
37560	0.018	0.019	0.02	0.024	17:37:32	10/22/2011 17:37	0.029
37620	0.03	0.032	0.036	0.057	17:38:32	10/22/2011 17:38	0.07
37680	0.039	0.043	0.05	0.078	17:39:32	10/22/2011 17:39	0.098
37740	0.03	0.031	0.034	0.06	17:40:32	10/22/2011 17:40	0.084
37800	0.034	0.035	0.037	0.058	17:41:32	10/22/2011 17:41	0.081
37860	0.018	0.018	0.019	0.026	17:42:32	10/22/2011 17:42	0.031
37920	0.021	0.021	0.022	0.031	17:43:32	10/22/2011 17:43	0.041
37980	0.023	0.024	0.025	0.039	17:44:32	10/22/2011 17:44	0.052
38040	0.017	0.017	0.018	0.025	17:45:32	10/22/2011 17:45	0.031
38100	0.018	0.019	0.02	0.027	17:46:32	10/22/2011 17:46	0.032
38160	0.016	0.017	0.018	0.021	17:47:32	10/22/2011 17:47	0.025
38220	0.023	0.023	0.026	0.032	17:48:32	10/22/2011 17:48	0.039
38280	0.025	0.026	0.028	0.039	17:49:32	10/22/2011 17:49	0.052
38340	0.017	0.018	0.02	0.031	17:50:32	10/22/2011 17:50	0.036
38400	0.018	0.019	0.02	0.03	17:51:32	10/22/2011 17:51	0.039
38460	0.014	0.014	0.015	0.018	17:52:32	10/22/2011 17:52	0.019
38520	0.026	0.026	0.027	0.035	17:53:32	10/22/2011 17:53	0.053
38580	0.011	0.011	0.011	0.012	17:54:32	10/22/2011 17:54	0.014
38640	0.011	0.011	0.011	0.013	17:55:32	10/22/2011 17:55	0.014
38700	0.017	0.018	0.018	0.023	17:56:32	10/22/2011 17:56	0.029
38760	0.034	0.035	0.038	0.067	17:57:32	10/22/2011 17:57	0.098
38820	0.015	0.016	0.016	0.023	17:58:32	10/22/2011 17:58	0.028
38880	0.016	0.016	0.016	0.019	17:59:32	10/22/2011 17:59	0.023
38940	0.03	0.031	0.033	0.053	18:00:32	10/22/2011 18:00	0.077
39000	0.013	0.013	0.013	0.017	18:01:32	10/22/2011 18:01	0.021
39060	0.01	0.01	0.01	0.011	18:02:32	10/22/2011 18:02	0.012
39120	0.015	0.015	0.015	0.018	18:03:32	10/22/2011 18:03	0.021
39180	0.013	0.013	0.013	0.016	18:04:32	10/22/2011 18:04	0.018
39240	0.012	0.012	0.013	0.015	18:05:32	10/22/2011 18:05	0.017
39300	0.011	0.011	0.012	0.014	18:06:32	10/22/2011 18:06	0.017
39360	0.011	0.011	0.011	0.013	18:07:32	10/22/2011 18:07	0.015
39420	0.031	0.032	0.035	0.064	18:08:32	10/22/2011 18:08	0.094
39480	0.027	0.028	0.03	0.047	18:09:32	10/22/2011 18:09	0.065
39540	0.041	0.042	0.045	0.076	18:10:32	10/22/2011 18:10	0.113
39600	0.017	0.017	0.018	0.019	18:11:32	10/22/2011 18:11	0.022
39660	0.019	0.019	0.02	0.024	18:12:32	10/22/2011 18:12	0.03
39720	0.012	0.012	0.012	0.015	18:13:32	10/22/2011 18:13	0.017
39780	0.014	0.014	0.014	0.016	18:14:32	10/22/2011 18:14	0.021
39840	0.014	0.015	0.015	0.02	18:15:32	10/22/2011 18:15	0.025
39900	0.017	0.017	0.017	0.022	18:16:32	10/22/2011 18:16	0.029
39960	0.026	0.027	0.029	0.039	18:17:32	10/22/2011 18:17	0.045
40020	0.032	0.034	0.039	0.059	18:18:32	10/22/2011 18:18	0.065
40080	0.02	0.02	0.021	0.029	18:19:32	10/22/2011 18:19	0.034
40140	0.019	0.019	0.019	0.022	18:20:32	10/22/2011 18:20	0.025
40200	0.012	0.012	0.012	0.013	18:21:32	10/22/2011 18:21	0.013
40260	0.013	0.013	0.013	0.015	18:22:32	10/22/2011 18:22	0.015
40320	0.02	0.02	0.021	0.029	18:23:32	10/22/2011 18:23	0.034
40380	0.042	0.043	0.046	0.077	18:24:32	10/22/2011 18:24	0.11
40440	0.022	0.023	0.024	0.037	18:25:32	10/22/2011 18:25	0.055
40500	0.02	0.02	0.021	0.028	18:26:32	10/22/2011 18:26	0.035
40560	0.02	0.02	0.021	0.027	18:27:32	10/22/2011 18:27	0.036
40620	0.025	0.026	0.028	0.036	18:28:32	10/22/2011 18:28	0.041
40680	0.016	0.017	0.017	0.019	18:29:32	10/22/2011 18:29	0.02
40740	0.021	0.021	0.022	0.028	18:30:32	10/22/2011 18:30	0.034
40800	0.021	0.021	0.022	0.027	18:31:32	10/22/2011 18:31	0.031
40860	0.017	0.017	0.018	0.022	18:32:32	10/22/2011 18:32	0.026
40920	0.018	0.018	0.018	0.022	18:33:32	10/22/2011 18:33	0.025
40980	0.023	0.024	0.024	0.03	18:34:32	10/22/2011 18:34	0.032
41040	0.023	0.023	0.024	0.027	18:35:32	10/22/2011 18:35	0.031
41100	0.019	0.019	0.02	0.024	18:36:32	10/22/2011 18:36	0.028
41160	0.014	0.014	0.014	0.017	18:37:32	10/22/2011 18:37	0.019
41220	0.016	0.016	0.016	0.019	18:38:32	10/22/2011 18:38	0.02
41280	0.018	0.018	0.019	0.02	18:39:32	10/22/2011 18:39	0.022
41340	0.017	0.017	0.017	0.018	18:40:32	10/22/2011 18:40	0.019
41400	0.026	0.026	0.028	0.04	18:41:32	10/22/2011 18:41	0.059
41460	0.014	0.014	0.014	0.016	18:42:32	10/22/2011 18:42	0.017

41520	0.017	0.017	0.017	0.019	18:43:32	10/22/2011 18:43	0.023
41580	0.016	0.016	0.016	0.017	18:44:32	10/22/2011 18:44	0.018
41640	0.014	0.014	0.014	0.016	18:45:32	10/22/2011 18:45	0.017
41700	0.019	0.019	0.02	0.022	18:46:32	10/22/2011 18:46	0.023
41760	0.019	0.02	0.021	0.026	18:47:32	10/22/2011 18:47	0.032
41820	0.015	0.016	0.016	0.02	18:48:32	10/22/2011 18:48	0.024
41880	0.014	0.014	0.014	0.016	18:49:32	10/22/2011 18:49	0.018
41940	0.015	0.015	0.015	0.018	18:50:32	10/22/2011 18:50	0.022
42000	0.016	0.016	0.016	0.018	18:51:32	10/22/2011 18:51	0.019
42060	0.013	0.014	0.014	0.015	18:52:32	10/22/2011 18:52	0.017
42120	0.012	0.012	0.012	0.014	18:53:32	10/22/2011 18:53	0.014
42180	0.017	0.018	0.019	0.027	18:54:32	10/22/2011 18:54	0.036

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_005
Test Start Time	9:36:04
Test Start Date	10/23/2011
Test Length [D:H:M]	0:06:33
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.036
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	1.19
PM1 TWA [mg/m3]	0.029
PM2.5 Average [mg/m3]	0.037
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	1.19
PM2.5 TWA [mg/m3]	0.031
PM4 Average [mg/m3]	0.041
PM4 Minimum [mg/m3]	0.011
PM4 Maximum [mg/m3]	1.21
PM4 TWA [mg/m3]	0.034
PM10 Average [mg/m3]	0.057
PM10 Minimum [mg/m3]	0.012
PM10 Maximum [mg/m3]	1.43
PM10 TWA [mg/m3]	0.047
TOTAL Average [mg/m3]	0.061
TOTAL Minimum [mg/m3]	0.012
TOTAL Maximum [mg/m3]	1.67
TOTAL TWA [mg/m3]	0.05
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	393



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:36:04	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	1.19	1.19	1.21	1.43	9:37:04	10/23/2011 9:37	1.67		
120	0.011	0.011	0.011	0.012	9:38:04	10/23/2011 9:38	0.012		
180	0.013	0.014	0.014	0.02	9:39:04	10/23/2011 9:39	0.021		
240	0.013	0.014	0.014	0.018	9:40:04	10/23/2011 9:40	0.019		
300	0.013	0.013	0.014	0.016	9:41:04	10/23/2011 9:41	0.016		
360	0.013	0.013	0.013	0.014	9:42:04	10/23/2011 9:42	0.015		
420	0.013	0.013	0.014	0.015	9:43:04	10/23/2011 9:43	0.015		
480	0.015	0.015	0.016	0.017	9:44:04	10/23/2011 9:44	0.018		
540	0.015	0.015	0.016	0.017	9:45:04	10/23/2011 9:45	0.017		
600	0.02	0.02	0.02	0.021	9:46:04	10/23/2011 9:46	0.021		
660	0.021	0.021	0.021	0.022	9:47:04	10/23/2011 9:47	0.022		
720	0.022	0.022	0.024	0.031	9:48:04	10/23/2011 9:48	0.033		
780	0.017	0.018	0.02	0.024	9:49:04	10/23/2011 9:49	0.025		
840	0.058	0.06	0.062	0.082	9:50:04	10/23/2011 9:50	0.099		
900	0.417	0.419	0.426	0.491	9:51:04	10/23/2011 9:51	0.551		
960	0.016	0.016	0.018	0.021	9:52:04	10/23/2011 9:52	0.022		
1020	0.014	0.014	0.015	0.018	9:53:04	10/23/2011 9:53	0.018		
1080	0.026	0.027	0.031	0.046	9:54:04	10/23/2011 9:54	0.051		
1140	0.047	0.051	0.062	0.103	9:55:04	10/23/2011 9:55	0.111		
1200	0.026	0.027	0.031	0.052	9:56:04	10/23/2011 9:56	0.056		
1260	0.021	0.021	0.023	0.035	9:57:04	10/23/2011 9:57	0.039		
1320	0.018	0.019	0.02	0.026	9:58:04	10/23/2011 9:58	0.028		
1380	0.043	0.045	0.053	0.096	9:59:04	10/23/2011 9:59	0.105		
1440	0.032	0.034	0.041	0.064	10:00:04	10/23/2011 10:00	0.069		
1500	0.021	0.022	0.025	0.038	10:01:04	10/23/2011 10:01	0.04		
1560	0.024	0.026	0.03	0.041	10:02:04	10/23/2011 10:02	0.041		
1620	0.024	0.025	0.029	0.041	10:03:04	10/23/2011 10:03	0.042		
1680	0.027	0.028	0.032	0.049	10:04:04	10/23/2011 10:04	0.053		
1740	0.053	0.054	0.058	0.088	10:05:04	10/23/2011 10:05	0.106		
1800	0.014	0.014	0.015	0.018	10:06:04	10/23/2011 10:06	0.018		
1860	0.014	0.014	0.015	0.018	10:07:04	10/23/2011 10:07	0.019		
1920	0.015	0.015	0.017	0.02	10:08:04	10/23/2011 10:08	0.021		
1980	0.015	0.016	0.017	0.022	10:09:04	10/23/2011 10:09	0.023		
2040	0.024	0.025	0.028	0.041	10:10:04	10/23/2011 10:10	0.043		
2100	0.015	0.016	0.017	0.021	10:11:04	10/23/2011 10:11	0.021		
2160	0.015	0.015	0.016	0.02	10:12:04	10/23/2011 10:12	0.021		
2220	0.012	0.013	0.013	0.016	10:13:04	10/23/2011 10:13	0.016		
2280	0.047	0.048	0.056	0.112	10:14:04	10/23/2011 10:14	0.136		
2340	0.022	0.023	0.025	0.041	10:15:04	10/23/2011 10:15	0.048		
2400	0.087	0.088	0.092	0.125	10:16:04	10/23/2011 10:16	0.148		
2460	0.015	0.016	0.018	0.024	10:17:04	10/23/2011 10:17	0.027		
2520	0.016	0.016	0.018	0.023	10:18:04	10/23/2011 10:18	0.026		
2580	0.019	0.02	0.022	0.033	10:19:04	10/23/2011 10:19	0.035		
2640	0.021	0.022	0.024	0.037	10:20:04	10/23/2011 10:20	0.04		
2700	0.016	0.017	0.018	0.025	10:21:04	10/23/2011 10:21	0.027		
2760	0.013	0.013	0.014	0.016	10:22:04	10/23/2011 10:22	0.016		
2820	0.015	0.015	0.016	0.019	10:23:04	10/23/2011 10:23	0.021		
2880	0.015	0.015	0.016	0.02	10:24:04	10/23/2011 10:24	0.02		
2940	0.014	0.014	0.015	0.018	10:25:04	10/23/2011 10:25	0.019		
3000	0.029	0.03	0.035	0.054	10:26:04	10/23/2011 10:26	0.06		
3060	0.037	0.04	0.047	0.075	10:27:04	10/23/2011 10:27	0.084		
3120	0.02	0.021	0.024	0.036	10:28:04	10/23/2011 10:28	0.038		
3180	0.022	0.023	0.027	0.043	10:29:04	10/23/2011 10:29	0.049		
3240	0.026	0.027	0.031	0.051	10:30:04	10/23/2011 10:30	0.057		

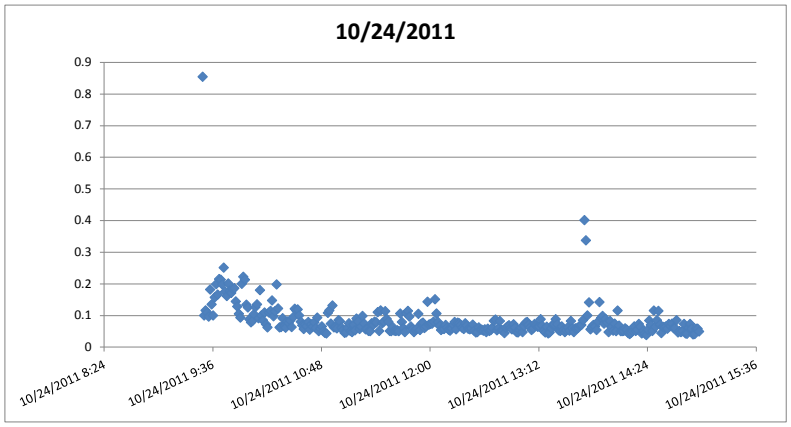
3300	0.019	0.019	0.021	0.03	10:31:04	10/23/2011 10:31	0.033
3360	0.021	0.022	0.026	0.037	10:32:04	10/23/2011 10:32	0.041
3420	0.019	0.02	0.022	0.033	10:33:04	10/23/2011 10:33	0.035
3480	0.033	0.036	0.043	0.066	10:34:04	10/23/2011 10:34	0.069
3540	0.029	0.032	0.038	0.06	10:35:04	10/23/2011 10:35	0.067
3600	0.022	0.024	0.028	0.043	10:36:04	10/23/2011 10:36	0.047
3660	0.019	0.02	0.022	0.033	10:37:04	10/23/2011 10:37	0.036
3720	0.054	0.058	0.069	0.111	10:38:04	10/23/2011 10:38	0.121
3780	0.037	0.039	0.045	0.079	10:39:04	10/23/2011 10:39	0.089
3840	0.015	0.015	0.017	0.024	10:40:04	10/23/2011 10:40	0.026
3900	0.013	0.013	0.014	0.018	10:41:04	10/23/2011 10:41	0.019
3960	0.065	0.066	0.067	0.077	10:42:04	10/23/2011 10:42	0.081
4020	0.015	0.015	0.017	0.021	10:43:04	10/23/2011 10:43	0.022
4080	0.016	0.016	0.017	0.022	10:44:04	10/23/2011 10:44	0.024
4140	0.012	0.013	0.013	0.016	10:45:04	10/23/2011 10:45	0.016
4200	0.012	0.012	0.012	0.015	10:46:04	10/23/2011 10:46	0.016
4260	0.011	0.011	0.012	0.013	10:47:04	10/23/2011 10:47	0.014
4320	0.011	0.011	0.012	0.013	10:48:04	10/23/2011 10:48	0.014
4380	0.01	0.01	0.011	0.012	10:49:04	10/23/2011 10:49	0.013
4440	0.011	0.011	0.012	0.014	10:50:04	10/23/2011 10:50	0.015
4500	0.015	0.015	0.016	0.022	10:51:04	10/23/2011 10:51	0.024
4560	0.013	0.013	0.014	0.02	10:52:04	10/23/2011 10:52	0.02
4620	0.012	0.012	0.013	0.016	10:53:04	10/23/2011 10:53	0.017
4680	0.026	0.028	0.032	0.049	10:54:04	10/23/2011 10:54	0.052
4740	0.023	0.024	0.027	0.039	10:55:04	10/23/2011 10:55	0.045
4800	0.028	0.03	0.034	0.054	10:56:04	10/23/2011 10:56	0.058
4860	0.048	0.052	0.061	0.094	10:57:04	10/23/2011 10:57	0.105
4920	0.052	0.056	0.068	0.118	10:58:04	10/23/2011 10:58	0.131
4980	0.049	0.053	0.064	0.107	10:59:04	10/23/2011 10:59	0.116
5040	0.042	0.045	0.054	0.091	11:00:04	10/23/2011 11:00	0.099
5100	0.021	0.022	0.026	0.039	11:01:04	10/23/2011 11:01	0.042
5160	0.019	0.02	0.022	0.032	11:02:04	10/23/2011 11:02	0.035
5220	0.016	0.017	0.019	0.029	11:03:04	10/23/2011 11:03	0.031
5280	0.018	0.019	0.021	0.034	11:04:04	10/23/2011 11:04	0.035
5340	0.018	0.018	0.021	0.031	11:05:04	10/23/2011 11:05	0.034
5400	0.026	0.028	0.033	0.051	11:06:04	10/23/2011 11:06	0.054
5460	0.039	0.042	0.051	0.084	11:07:04	10/23/2011 11:07	0.089
5520	0.035	0.038	0.045	0.072	11:08:04	10/23/2011 11:08	0.078
5580	0.027	0.028	0.033	0.053	11:09:04	10/23/2011 11:09	0.058
5640	0.062	0.063	0.067	0.087	11:10:04	10/23/2011 11:10	0.096
5700	0.028	0.03	0.034	0.051	11:11:04	10/23/2011 11:11	0.054
5760	0.022	0.024	0.027	0.04	11:12:04	10/23/2011 11:12	0.043
5820	0.014	0.014	0.015	0.018	11:13:04	10/23/2011 11:13	0.018
5880	0.013	0.013	0.014	0.017	11:14:04	10/23/2011 11:14	0.017
5940	0.015	0.016	0.017	0.022	11:15:04	10/23/2011 11:15	0.023
6000	0.016	0.016	0.018	0.022	11:16:04	10/23/2011 11:16	0.024
6060	0.019	0.02	0.022	0.032	11:17:04	10/23/2011 11:17	0.032
6120	0.018	0.018	0.02	0.03	11:18:04	10/23/2011 11:18	0.033
6180	0.013	0.014	0.014	0.019	11:19:04	10/23/2011 11:19	0.02
6240	0.024	0.025	0.029	0.045	11:20:04	10/23/2011 11:20	0.048
6300	0.028	0.03	0.035	0.054	11:21:04	10/23/2011 11:21	0.062
6360	0.017	0.017	0.019	0.024	11:22:04	10/23/2011 11:22	0.026
6420	0.024	0.026	0.03	0.044	11:23:04	10/23/2011 11:23	0.046
6480	0.031	0.033	0.039	0.06	11:24:04	10/23/2011 11:24	0.064
6540	0.025	0.026	0.03	0.044	11:25:04	10/23/2011 11:25	0.046
6600	0.022	0.023	0.026	0.041	11:26:04	10/23/2011 11:26	0.045
6660	0.026	0.027	0.032	0.055	11:27:04	10/23/2011 11:27	0.061
6720	0.014	0.014	0.015	0.02	11:28:04	10/23/2011 11:28	0.021
6780	0.011	0.012	0.012	0.013	11:29:04	10/23/2011 11:29	0.013
6840	0.013	0.013	0.013	0.016	11:30:04	10/23/2011 11:30	0.016
6900	0.014	0.015	0.015	0.016	11:31:04	10/23/2011 11:31	0.016
6960	0.014	0.014	0.015	0.017	11:32:04	10/23/2011 11:32	0.017
7020	0.013	0.013	0.014	0.015	11:33:04	10/23/2011 11:33	0.016
7080	0.013	0.013	0.013	0.015	11:34:04	10/23/2011 11:34	0.015
7140	0.165	0.172	0.204	0.443	11:35:04	10/23/2011 11:35	0.525
7200	0.072	0.076	0.092	0.191	11:36:04	10/23/2011 11:36	0.223
7260	0.035	0.037	0.045	0.084	11:37:04	10/23/2011 11:37	0.093
7320	0.017	0.017	0.019	0.025	11:38:04	10/23/2011 11:38	0.025
7380	0.029	0.031	0.036	0.058	11:39:04	10/23/2011 11:39	0.062
7440	0.034	0.036	0.042	0.065	11:40:04	10/23/2011 11:40	0.071
7500	0.019	0.02	0.022	0.031	11:41:04	10/23/2011 11:41	0.034
7560	0.025	0.026	0.029	0.042	11:42:04	10/23/2011 11:42	0.045
7620	0.018	0.019	0.021	0.027	11:43:04	10/23/2011 11:43	0.027
7680	0.017	0.017	0.019	0.024	11:44:04	10/23/2011 11:44	0.025
7740	0.035	0.038	0.044	0.072	11:45:04	10/23/2011 11:45	0.081
7800	0.055	0.057	0.062	0.089	11:46:04	10/23/2011 11:46	0.096
7860	0.022	0.023	0.026	0.04	11:47:04	10/23/2011 11:47	0.043
7920	0.014	0.014	0.015	0.017	11:48:04	10/23/2011 11:48	0.018
7980	0.015	0.015	0.016	0.018	11:49:04	10/23/2011 11:49	0.019
8040	0.017	0.017	0.019	0.024	11:50:04	10/23/2011 11:50	0.024
8100	0.06	0.064	0.075	0.122	11:51:04	10/23/2011 11:51	0.134
8160	0.089	0.095	0.11	0.169	11:52:04	10/23/2011 11:52	0.184
8220	0.023	0.024	0.025	0.034	11:53:04	10/23/2011 11:53	0.036
8280	0.019	0.02	0.021	0.028	11:54:04	10/23/2011 11:54	0.03
8340	0.027	0.028	0.032	0.05	11:55:04	10/23/2011 11:55	0.054
8400	0.022	0.022	0.024	0.034	11:56:04	10/23/2011 11:56	0.037
8460	0.017	0.017	0.018	0.022	11:57:04	10/23/2011 11:57	0.022
8520	0.028	0.03	0.034	0.047	11:58:04	10/23/2011 11:58	0.05
8580	0.016	0.016	0.017	0.021	11:59:04	10/23/2011 11:59	0.021
8640	0.014	0.014	0.015	0.017	12:00:04	10/23/2011 12:00	0.017
8700	0.016	0.017	0.017	0.02	12:01:04	10/23/2011 12:01	0.02

8760	0.014	0.014	0.015	0.015	12:02:04	10/23/2011 12:02	0.016
8820	0.018	0.018	0.019	0.023	12:03:04	10/23/2011 12:03	0.024
8880	0.017	0.017	0.018	0.022	12:04:04	10/23/2011 12:04	0.022
8940	0.024	0.024	0.027	0.039	12:05:04	10/23/2011 12:05	0.043
9000	0.022	0.023	0.024	0.032	12:06:04	10/23/2011 12:06	0.035
9060	0.024	0.025	0.026	0.033	12:07:04	10/23/2011 12:07	0.033
9120	0.019	0.019	0.019	0.022	12:08:04	10/23/2011 12:08	0.023
9180	0.021	0.021	0.022	0.025	12:09:04	10/23/2011 12:09	0.028
9240	0.019	0.02	0.021	0.024	12:10:04	10/23/2011 12:10	0.026
9300	0.02	0.021	0.022	0.025	12:11:04	10/23/2011 12:11	0.027
9360	0.021	0.021	0.022	0.025	12:12:04	10/23/2011 12:12	0.027
9420	0.051	0.052	0.053	0.064	12:13:04	10/23/2011 12:13	0.067
9480	0.026	0.027	0.029	0.036	12:14:04	10/23/2011 12:14	0.037
9540	0.034	0.036	0.039	0.052	12:15:04	10/23/2011 12:15	0.055
9600	0.023	0.024	0.025	0.032	12:16:04	10/23/2011 12:16	0.034
9660	0.02	0.021	0.022	0.024	12:17:04	10/23/2011 12:17	0.024
9720	0.023	0.023	0.024	0.028	12:18:04	10/23/2011 12:18	0.028
9780	0.028	0.029	0.031	0.039	12:19:04	10/23/2011 12:19	0.041
9840	0.024	0.025	0.026	0.034	12:20:04	10/23/2011 12:20	0.036
9900	0.026	0.026	0.027	0.031	12:21:04	10/23/2011 12:21	0.032
9960	0.023	0.023	0.024	0.03	12:22:04	10/23/2011 12:22	0.032
10020	0.02	0.02	0.021	0.024	12:23:04	10/23/2011 12:23	0.025
10080	0.018	0.018	0.019	0.022	12:24:04	10/23/2011 12:24	0.022
10140	0.017	0.018	0.019	0.021	12:25:04	10/23/2011 12:25	0.021
10200	0.02	0.021	0.022	0.027	12:26:04	10/23/2011 12:26	0.027
10260	0.016	0.016	0.016	0.017	12:27:04	10/23/2011 12:27	0.017
10320	0.016	0.016	0.016	0.016	12:28:04	10/23/2011 12:28	0.017
10380	0.016	0.016	0.016	0.017	12:29:04	10/23/2011 12:29	0.018
10440	0.019	0.019	0.019	0.021	12:30:04	10/23/2011 12:30	0.022
10500	0.018	0.018	0.018	0.018	12:31:04	10/23/2011 12:31	0.018
10560	0.017	0.017	0.017	0.018	12:32:04	10/23/2011 12:32	0.018
10620	0.019	0.019	0.019	0.019	12:33:04	10/23/2011 12:33	0.019
10680	0.017	0.017	0.017	0.018	12:34:04	10/23/2011 12:34	0.018
10740	0.016	0.016	0.016	0.016	12:35:04	10/23/2011 12:35	0.016
10800	0.016	0.016	0.016	0.017	12:36:04	10/23/2011 12:36	0.017
10860	0.025	0.025	0.026	0.031	12:37:04	10/23/2011 12:37	0.033
10920	0.016	0.016	0.016	0.016	12:38:04	10/23/2011 12:38	0.016
10980	0.031	0.031	0.031	0.034	12:39:04	10/23/2011 12:39	0.038
11040	0.035	0.035	0.038	0.056	12:40:04	10/23/2011 12:40	0.064
11100	0.017	0.017	0.017	0.018	12:41:04	10/23/2011 12:41	0.018
11160	0.017	0.017	0.017	0.018	12:42:04	10/23/2011 12:42	0.018
11220	0.017	0.017	0.017	0.018	12:43:04	10/23/2011 12:43	0.018
11280	0.017	0.017	0.017	0.017	12:44:04	10/23/2011 12:44	0.017
11340	0.016	0.017	0.017	0.017	12:45:04	10/23/2011 12:45	0.017
11400	0.017	0.017	0.017	0.018	12:46:04	10/23/2011 12:46	0.018
11460	0.017	0.017	0.017	0.018	12:47:04	10/23/2011 12:47	0.018
11520	0.016	0.016	0.016	0.017	12:48:04	10/23/2011 12:48	0.017
11580	0.017	0.017	0.017	0.017	12:49:04	10/23/2011 12:49	0.018
11640	0.019	0.019	0.02	0.02	12:50:04	10/23/2011 12:50	0.02
11700	0.018	0.019	0.019	0.019	12:51:04	10/23/2011 12:51	0.019
11760	0.018	0.018	0.019	0.019	12:52:04	10/23/2011 12:52	0.019
11820	0.018	0.018	0.018	0.019	12:53:04	10/23/2011 12:53	0.019
11880	0.018	0.018	0.018	0.019	12:54:04	10/23/2011 12:54	0.019
11940	0.018	0.018	0.018	0.019	12:55:04	10/23/2011 12:55	0.019
12000	0.019	0.019	0.019	0.02	12:56:04	10/23/2011 12:56	0.02
12060	0.044	0.046	0.05	0.066	12:57:04	10/23/2011 12:57	0.07
12120	0.141	0.152	0.18	0.294	12:58:04	10/23/2011 12:58	0.322
12180	0.119	0.129	0.152	0.249	12:59:04	10/23/2011 12:59	0.276
12240	0.164	0.178	0.213	0.353	13:00:04	10/23/2011 13:00	0.394
12300	0.069	0.075	0.088	0.141	13:01:04	10/23/2011 13:01	0.153
12360	0.111	0.121	0.145	0.238	13:02:04	10/23/2011 13:02	0.26
12420	0.238	0.263	0.32	0.529	13:03:04	10/23/2011 13:03	0.578
12480	0.191	0.207	0.246	0.381	13:04:04	10/23/2011 13:04	0.411
12540	0.253	0.277	0.336	0.562	13:05:04	10/23/2011 13:05	0.624
12600	0.069	0.074	0.087	0.139	13:06:04	10/23/2011 13:06	0.155
12660	0.04	0.043	0.048	0.07	13:07:04	10/23/2011 13:07	0.077
12720	0.023	0.024	0.025	0.032	13:08:04	10/23/2011 13:08	0.033
12780	0.021	0.022	0.023	0.027	13:09:04	10/23/2011 13:09	0.028
12840	0.021	0.022	0.023	0.027	13:10:04	10/23/2011 13:10	0.027
12900	0.024	0.024	0.026	0.031	13:11:04	10/23/2011 13:11	0.033
12960	0.031	0.032	0.035	0.052	13:12:04	10/23/2011 13:12	0.055
13020	0.022	0.023	0.024	0.03	13:13:04	10/23/2011 13:13	0.031
13080	0.02	0.02	0.021	0.025	13:14:04	10/23/2011 13:14	0.026
13140	0.023	0.024	0.025	0.031	13:15:04	10/23/2011 13:15	0.033
13200	0.025	0.025	0.026	0.029	13:16:04	10/23/2011 13:16	0.03
13260	0.022	0.023	0.024	0.03	13:17:04	10/23/2011 13:17	0.03
13320	0.019	0.019	0.02	0.021	13:18:04	10/23/2011 13:18	0.022
13380	0.02	0.02	0.02	0.021	13:19:04	10/23/2011 13:19	0.022
13440	0.02	0.02	0.02	0.022	13:20:04	10/23/2011 13:20	0.023
13500	0.02	0.02	0.02	0.023	13:21:04	10/23/2011 13:21	0.023
13560	0.02	0.02	0.02	0.023	13:22:04	10/23/2011 13:22	0.024
13620	0.018	0.018	0.019	0.019	13:23:04	10/23/2011 13:23	0.019
13680	0.02	0.02	0.021	0.023	13:24:04	10/23/2011 13:24	0.024
13740	0.02	0.02	0.02	0.022	13:25:04	10/23/2011 13:25	0.022
13800	0.02	0.02	0.02	0.021	13:26:04	10/23/2011 13:26	0.021
13860	0.02	0.02	0.02	0.021	13:27:04	10/23/2011 13:27	0.022
13920	0.023	0.023	0.025	0.031	13:28:04	10/23/2011 13:28	0.032
13980	0.021	0.022	0.022	0.025	13:29:04	10/23/2011 13:29	0.026
14040	0.022	0.022	0.022	0.025	13:30:04	10/23/2011 13:30	0.027
14100	0.022	0.022	0.022	0.024	13:31:04	10/23/2011 13:31	0.025
14160	0.02	0.02	0.02	0.021	13:32:04	10/23/2011 13:32	0.021

14220	0.019	0.02	0.02	0.02	13:33:04	10/23/2011 13:33	0.02
14280	0.02	0.02	0.02	0.02	13:34:04	10/23/2011 13:34	0.02
14340	0.019	0.019	0.019	0.02	13:35:04	10/23/2011 13:35	0.02
14400	0.019	0.019	0.019	0.019	13:36:04	10/23/2011 13:36	0.02
14460	0.019	0.019	0.019	0.019	13:37:04	10/23/2011 13:37	0.019
14520	0.019	0.019	0.019	0.019	13:38:04	10/23/2011 13:38	0.019
14580	0.018	0.018	0.018	0.018	13:39:04	10/23/2011 13:39	0.019
14640	0.021	0.021	0.022	0.025	13:40:04	10/23/2011 13:40	0.027
14700	0.019	0.019	0.019	0.02	13:41:04	10/23/2011 13:41	0.02
14760	0.019	0.019	0.019	0.02	13:42:04	10/23/2011 13:42	0.02
14820	0.022	0.022	0.023	0.025	13:43:04	10/23/2011 13:43	0.025
14880	0.022	0.023	0.023	0.024	13:44:04	10/23/2011 13:44	0.024
14940	0.025	0.025	0.025	0.029	13:45:04	10/23/2011 13:45	0.03
15000	0.029	0.03	0.031	0.043	13:46:04	10/23/2011 13:46	0.046
15060	0.029	0.029	0.031	0.042	13:47:04	10/23/2011 13:47	0.045
15120	0.031	0.032	0.034	0.051	13:48:04	10/23/2011 13:48	0.055
15180	0.024	0.025	0.025	0.029	13:49:04	10/23/2011 13:49	0.029
15240	0.022	0.022	0.023	0.025	13:50:04	10/23/2011 13:50	0.025
15300	0.025	0.025	0.025	0.029	13:51:04	10/23/2011 13:51	0.03
15360	0.021	0.021	0.021	0.022	13:52:04	10/23/2011 13:52	0.022
15420	0.022	0.022	0.022	0.024	13:53:04	10/23/2011 13:53	0.025
15480	0.024	0.025	0.025	0.031	13:54:04	10/23/2011 13:54	0.033
15540	0.02	0.02	0.02	0.022	13:55:04	10/23/2011 13:55	0.022
15600	0.055	0.057	0.066	0.117	13:56:04	10/23/2011 13:56	0.133
15660	0.032	0.034	0.038	0.056	13:57:04	10/23/2011 13:57	0.06
15720	0.023	0.023	0.025	0.03	13:58:04	10/23/2011 13:58	0.032
15780	0.022	0.023	0.024	0.03	13:59:04	10/23/2011 13:59	0.032
15840	0.023	0.023	0.024	0.029	14:00:04	10/23/2011 14:00	0.031
15900	0.022	0.022	0.023	0.027	14:01:04	10/23/2011 14:01	0.029
15960	0.019	0.019	0.02	0.021	14:02:04	10/23/2011 14:02	0.022
16020	0.019	0.019	0.02	0.02	14:03:04	10/23/2011 14:03	0.021
16080	0.019	0.019	0.019	0.02	14:04:04	10/23/2011 14:04	0.021
16140	0.019	0.019	0.019	0.021	14:05:04	10/23/2011 14:05	0.022
16200	0.018	0.019	0.019	0.019	14:06:04	10/23/2011 14:06	0.02
16260	0.02	0.02	0.021	0.022	14:07:04	10/23/2011 14:07	0.022
16320	0.02	0.02	0.021	0.023	14:08:04	10/23/2011 14:08	0.023
16380	0.021	0.021	0.022	0.025	14:09:04	10/23/2011 14:09	0.026
16440	0.019	0.019	0.019	0.02	14:10:04	10/23/2011 14:10	0.02
16500	0.02	0.02	0.02	0.022	14:11:04	10/23/2011 14:11	0.022
16560	0.019	0.019	0.019	0.019	14:12:04	10/23/2011 14:12	0.019
16620	0.02	0.021	0.021	0.024	14:13:04	10/23/2011 14:13	0.024
16680	0.038	0.04	0.047	0.066	14:14:04	10/23/2011 14:14	0.069
16740	0.031	0.033	0.037	0.05	14:15:04	10/23/2011 14:15	0.053
16800	0.033	0.035	0.041	0.056	14:16:04	10/23/2011 14:16	0.059
16860	0.043	0.046	0.053	0.077	14:17:04	10/23/2011 14:17	0.08
16920	0.037	0.04	0.046	0.067	14:18:04	10/23/2011 14:18	0.072
16980	0.026	0.026	0.029	0.037	14:19:04	10/23/2011 14:19	0.04
17040	0.021	0.022	0.023	0.027	14:20:04	10/23/2011 14:20	0.027
17100	0.022	0.023	0.024	0.029	14:21:04	10/23/2011 14:21	0.03
17160	0.023	0.024	0.025	0.03	14:22:04	10/23/2011 14:22	0.03
17220	0.022	0.023	0.024	0.029	14:23:04	10/23/2011 14:23	0.029
17280	0.02	0.02	0.021	0.022	14:24:04	10/23/2011 14:24	0.023
17340	0.02	0.021	0.021	0.025	14:25:04	10/23/2011 14:25	0.025
17400	0.021	0.021	0.022	0.025	14:26:04	10/23/2011 14:26	0.026
17460	0.018	0.019	0.019	0.02	14:27:04	10/23/2011 14:27	0.02
17520	0.023	0.024	0.025	0.031	14:28:04	10/23/2011 14:28	0.032
17580	0.025	0.026	0.027	0.034	14:29:04	10/23/2011 14:29	0.034
17640	0.022	0.022	0.023	0.026	14:30:04	10/23/2011 14:30	0.027
17700	0.019	0.02	0.02	0.022	14:31:04	10/23/2011 14:31	0.022
17760	0.028	0.029	0.03	0.035	14:32:04	10/23/2011 14:32	0.035
17820	0.024	0.024	0.025	0.028	14:33:04	10/23/2011 14:33	0.028
17880	0.032	0.033	0.037	0.051	14:34:04	10/23/2011 14:34	0.056
17940	0.025	0.025	0.027	0.036	14:35:04	10/23/2011 14:35	0.039
18000	0.02	0.02	0.021	0.023	14:36:04	10/23/2011 14:36	0.024
18060	0.022	0.022	0.022	0.024	14:37:04	10/23/2011 14:37	0.026
18120	0.027	0.028	0.028	0.032	14:38:04	10/23/2011 14:38	0.033
18180	0.041	0.041	0.042	0.045	14:39:04	10/23/2011 14:39	0.045
18240	0.041	0.041	0.041	0.044	14:40:04	10/23/2011 14:40	0.044
18300	0.025	0.025	0.026	0.027	14:41:04	10/23/2011 14:41	0.027
18360	0.023	0.023	0.023	0.024	14:42:04	10/23/2011 14:42	0.024
18420	0.023	0.023	0.023	0.024	14:43:04	10/23/2011 14:43	0.025
18480	0.031	0.031	0.032	0.032	14:44:04	10/23/2011 14:44	0.032
18540	0.039	0.039	0.04	0.041	14:45:04	10/23/2011 14:45	0.042
18600	0.04	0.04	0.042	0.052	14:46:04	10/23/2011 14:46	0.055
18660	0.039	0.04	0.04	0.042	14:47:04	10/23/2011 14:47	0.043
18720	0.034	0.034	0.035	0.037	14:48:04	10/23/2011 14:48	0.038
18780	0.043	0.043	0.044	0.046	14:49:04	10/23/2011 14:49	0.047
18840	0.039	0.04	0.041	0.05	14:50:04	10/23/2011 14:50	0.052
18900	0.036	0.037	0.038	0.045	14:51:04	10/23/2011 14:51	0.047
18960	0.033	0.033	0.034	0.035	14:52:04	10/23/2011 14:52	0.036
19020	0.031	0.031	0.032	0.033	14:53:04	10/23/2011 14:53	0.033
19080	0.035	0.035	0.035	0.036	14:54:04	10/23/2011 14:54	0.036
19140	0.027	0.027	0.027	0.028	14:55:04	10/23/2011 14:55	0.028
19200	0.03	0.03	0.031	0.034	14:56:04	10/23/2011 14:56	0.036
19260	0.065	0.068	0.077	0.115	14:57:04	10/23/2011 14:57	0.129
19320	0.055	0.057	0.065	0.101	14:58:04	10/23/2011 14:58	0.112
19380	0.023	0.024	0.025	0.031	14:59:04	10/23/2011 14:59	0.033
19440	0.023	0.023	0.024	0.027	15:00:04	10/23/2011 15:00	0.028
19500	0.026	0.026	0.026	0.029	15:01:04	10/23/2011 15:01	0.03
19560	0.025	0.026	0.026	0.029	15:02:04	10/23/2011 15:02	0.029
19620	0.035	0.036	0.04	0.057	15:03:04	10/23/2011 15:03	0.062

19680	0.026	0.026	0.027	0.031	15:04:04	10/23/2011 15:04	0.033
19740	0.022	0.022	0.023	0.024	15:05:04	10/23/2011 15:05	0.024
19800	0.074	0.077	0.086	0.125	15:06:04	10/23/2011 15:06	0.139
19860	0.027	0.028	0.029	0.035	15:07:04	10/23/2011 15:07	0.036
19920	0.025	0.025	0.026	0.029	15:08:04	10/23/2011 15:08	0.029
19980	0.045	0.047	0.053	0.077	15:09:04	10/23/2011 15:09	0.082
20040	0.028	0.029	0.031	0.04	15:10:04	10/23/2011 15:10	0.041
20100	0.029	0.03	0.032	0.044	15:11:04	10/23/2011 15:11	0.048
20160	0.025	0.025	0.026	0.031	15:12:04	10/23/2011 15:12	0.034
20220	0.086	0.093	0.11	0.175	15:13:04	10/23/2011 15:13	0.193
20280	0.081	0.088	0.103	0.16	15:14:04	10/23/2011 15:14	0.175
20340	0.04	0.042	0.047	0.065	15:15:04	10/23/2011 15:15	0.072
20400	0.031	0.032	0.035	0.042	15:16:04	10/23/2011 15:16	0.045
20460	0.035	0.036	0.04	0.052	15:17:04	10/23/2011 15:17	0.057
20520	0.058	0.061	0.071	0.117	15:18:04	10/23/2011 15:18	0.13
20580	0.041	0.043	0.048	0.071	15:19:04	10/23/2011 15:19	0.076
20640	0.027	0.028	0.03	0.039	15:20:04	10/23/2011 15:20	0.041
20700	0.034	0.036	0.039	0.057	15:21:04	10/23/2011 15:21	0.061
20760	0.029	0.03	0.032	0.041	15:22:04	10/23/2011 15:22	0.044
20820	0.024	0.025	0.026	0.03	15:23:04	10/23/2011 15:23	0.031
20880	0.033	0.034	0.037	0.051	15:24:04	10/23/2011 15:24	0.056
20940	0.026	0.027	0.029	0.036	15:25:04	10/23/2011 15:25	0.038
21000	0.026	0.026	0.028	0.034	15:26:04	10/23/2011 15:26	0.035
21060	0.021	0.021	0.022	0.023	15:27:04	10/23/2011 15:27	0.024
21120	0.035	0.035	0.037	0.045	15:28:04	10/23/2011 15:28	0.049
21180	0.027	0.028	0.03	0.037	15:29:04	10/23/2011 15:29	0.038
21240	0.04	0.043	0.049	0.077	15:30:04	10/23/2011 15:30	0.086
21300	0.048	0.049	0.052	0.067	15:31:04	10/23/2011 15:31	0.077
21360	0.021	0.021	0.022	0.025	15:32:04	10/23/2011 15:32	0.025
21420	0.02	0.021	0.021	0.023	15:33:04	10/23/2011 15:33	0.023
21480	0.024	0.024	0.026	0.029	15:34:04	10/23/2011 15:34	0.03
21540	0.025	0.026	0.027	0.033	15:35:04	10/23/2011 15:35	0.035
21600	0.023	0.024	0.025	0.031	15:36:04	10/23/2011 15:36	0.033
21660	0.034	0.036	0.04	0.052	15:37:04	10/23/2011 15:37	0.055
21720	0.024	0.025	0.026	0.032	15:38:04	10/23/2011 15:38	0.033
21780	0.031	0.032	0.034	0.048	15:39:04	10/23/2011 15:39	0.052
21840	0.027	0.028	0.031	0.046	15:40:04	10/23/2011 15:40	0.051
21900	0.029	0.031	0.034	0.046	15:41:04	10/23/2011 15:41	0.047
21960	0.047	0.051	0.059	0.088	15:42:04	10/23/2011 15:42	0.092
22020	0.047	0.051	0.06	0.087	15:43:04	10/23/2011 15:43	0.094
22080	0.042	0.044	0.052	0.075	15:44:04	10/23/2011 15:44	0.079
22140	0.056	0.061	0.072	0.106	15:45:04	10/23/2011 15:45	0.114
22200	0.111	0.123	0.154	0.248	15:46:04	10/23/2011 15:46	0.259
22260	0.029	0.031	0.035	0.045	15:47:04	10/23/2011 15:47	0.047
22320	0.03	0.031	0.036	0.049	15:48:04	10/23/2011 15:48	0.052
22380	0.044	0.047	0.055	0.085	15:49:04	10/23/2011 15:49	0.091
22440	0.029	0.031	0.035	0.047	15:50:04	10/23/2011 15:50	0.049
22500	0.032	0.034	0.039	0.051	15:51:04	10/23/2011 15:51	0.053
22560	0.058	0.065	0.077	0.107	15:52:04	10/23/2011 15:52	0.11
22620	0.043	0.047	0.055	0.077	15:53:04	10/23/2011 15:53	0.081
22680	0.047	0.051	0.061	0.088	15:54:04	10/23/2011 15:54	0.094
22740	0.068	0.075	0.09	0.134	15:55:04	10/23/2011 15:55	0.146
22800	0.047	0.05	0.057	0.079	15:56:04	10/23/2011 15:56	0.083
22860	0.135	0.153	0.188	0.263	15:57:04	10/23/2011 15:57	0.272
22920	0.483	0.555	0.695	0.998	15:58:04	10/23/2011 15:58	1.03
22980	0.103	0.116	0.141	0.204	15:59:04	10/23/2011 15:59	0.215
23040	0.061	0.068	0.08	0.112	16:00:04	10/23/2011 16:00	0.118
23100	0.086	0.097	0.118	0.166	16:01:04	10/23/2011 16:01	0.172
23160	0.14	0.158	0.195	0.296	16:02:04	10/23/2011 16:02	0.309
23220	0.061	0.067	0.081	0.119	16:03:04	10/23/2011 16:03	0.126
23280	0.047	0.051	0.06	0.081	16:04:04	10/23/2011 16:04	0.083
23340	0.029	0.031	0.035	0.046	16:05:04	10/23/2011 16:05	0.048
23400	0.048	0.053	0.062	0.089	16:06:04	10/23/2011 16:06	0.094
23460	0.031	0.033	0.037	0.05	16:07:04	10/23/2011 16:07	0.052
23520	0.036	0.039	0.045	0.058	16:08:04	10/23/2011 16:08	0.062
23580	0.022	0.022	0.024	0.029	16:09:04	10/23/2011 16:09	0.029

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_006
Test Start Time	9:28:14
Test Start Date	10/24/2011
Test Length [D:H:M]	0:05:30
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.062
PM1 Minimum [mg/m3]	0.037
PM1 Maximum [mg/m3]	0.486
PM1 TWA [mg/m3]	0.043
PM2.5 Average [mg/m3]	0.064
PM2.5 Minimum [mg/m3]	0.037
PM2.5 Maximum [mg/m3]	0.49
PM2.5 TWA [mg/m3]	0.044
PM4 Average [mg/m3]	0.068
PM4 Minimum [mg/m3]	0.037
PM4 Maximum [mg/m3]	0.507
PM4 TWA [mg/m3]	0.047
PM10 Average [mg/m3]	0.08
PM10 Minimum [mg/m3]	0.038
PM10 Maximum [mg/m3]	0.702
PM10 TWA [mg/m3]	0.055
TOTAL Average [mg/m3]	0.083
TOTAL Minimum [mg/m3]	0.038
TOTAL Maximum [mg/m3]	0.854
TOTAL TWA [mg/m3]	0.057
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	330



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:28:14	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.486	0.49	0.507	0.702	9:29:14	10/24/2011 9:29	0.854		
120	0.08	0.081	0.085	0.096	9:30:14	10/24/2011 9:30	0.1		
180	0.086	0.087	0.091	0.107	9:31:14	10/24/2011 9:31	0.116		
240	0.081	0.084	0.09	0.105	9:32:14	10/24/2011 9:32	0.109		
300	0.074	0.076	0.08	0.092	9:33:14	10/24/2011 9:33	0.096		
360	0.133	0.137	0.144	0.17	9:34:14	10/24/2011 9:34	0.182		
420	0.111	0.114	0.119	0.133	9:35:14	10/24/2011 9:35	0.135		
480	0.082	0.084	0.087	0.096	9:36:14	10/24/2011 9:36	0.1		
540	0.134	0.136	0.142	0.155	9:37:14	10/24/2011 9:37	0.157		
600	0.147	0.152	0.163	0.192	9:38:14	10/24/2011 9:38	0.199		
660	0.116	0.122	0.132	0.159	9:39:14	10/24/2011 9:39	0.166		
720	0.141	0.149	0.166	0.207	9:40:14	10/24/2011 9:40	0.215		
780	0.15	0.156	0.17	0.205	9:41:14	10/24/2011 9:41	0.213		
840	0.135	0.142	0.155	0.191	9:42:14	10/24/2011 9:42	0.198		
900	0.154	0.164	0.185	0.241	9:43:14	10/24/2011 9:43	0.251		
960	0.114	0.12	0.132	0.167	9:44:14	10/24/2011 9:44	0.175		
1020	0.104	0.109	0.122	0.156	9:45:14	10/24/2011 9:45	0.161		
1080	0.123	0.131	0.147	0.191	9:46:14	10/24/2011 9:46	0.201		
1140	0.113	0.12	0.134	0.171	9:47:14	10/24/2011 9:47	0.177		
1200	0.103	0.109	0.123	0.162	9:48:14	10/24/2011 9:48	0.171		
1260	0.119	0.124	0.133	0.168	9:49:14	10/24/2011 9:49	0.183		
1320	0.145	0.15	0.158	0.181	9:50:14	10/24/2011 9:50	0.186		
1380	0.104	0.108	0.115	0.138	9:51:14	10/24/2011 9:51	0.144		
1440	0.085	0.091	0.1	0.123	9:52:14	10/24/2011 9:52	0.128		
1500	0.076	0.079	0.086	0.102	9:53:14	10/24/2011 9:53	0.105		
1560	0.067	0.07	0.076	0.09	9:54:14	10/24/2011 9:54	0.093		
1620	0.125	0.134	0.15	0.192	9:55:14	10/24/2011 9:55	0.2		
1680	0.125	0.135	0.153	0.208	9:56:14	10/24/2011 9:56	0.222		
1740	0.117	0.126	0.146	0.201	9:57:14	10/24/2011 9:57	0.213		
1800	0.087	0.092	0.102	0.129	9:58:14	10/24/2011 9:58	0.134		
1860	0.082	0.087	0.095	0.118	9:59:14	10/24/2011 9:59	0.125		
1920	0.062	0.065	0.071	0.085	10:00:14	10/24/2011 10:00	0.088		
1980	0.059	0.061	0.065	0.077	10:01:14	10/24/2011 10:01	0.078		
2040	0.064	0.066	0.071	0.08	10:02:14	10/24/2011 10:02	0.083		
2100	0.073	0.076	0.083	0.101	10:03:14	10/24/2011 10:03	0.104		
2160	0.077	0.082	0.093	0.12	10:04:14	10/24/2011 10:04	0.126		
2220	0.085	0.09	0.1	0.129	10:05:14	10/24/2011 10:05	0.135		
2280	0.063	0.066	0.073	0.089	10:06:14	10/24/2011 10:06	0.091		
2340	0.1	0.108	0.125	0.17	10:07:14	10/24/2011 10:07	0.18		
2400	0.066	0.069	0.077	0.098	10:08:14	10/24/2011 10:08	0.1		
2460	0.062	0.065	0.07	0.083	10:09:14	10/24/2011 10:09	0.085		
2520	0.073	0.077	0.084	0.104	10:10:14	10/24/2011 10:10	0.109		
2580	0.055	0.057	0.06	0.068	10:11:14	10/24/2011 10:11	0.072		
2640	0.053	0.054	0.056	0.061	10:12:14	10/24/2011 10:12	0.062		
2700	0.073	0.077	0.084	0.104	10:13:14	10/24/2011 10:13	0.109		
2760	0.071	0.075	0.084	0.107	10:14:14	10/24/2011 10:14	0.114		
2820	0.085	0.092	0.104	0.14	10:15:14	10/24/2011 10:15	0.147		
2880	0.066	0.07	0.076	0.092	10:16:14	10/24/2011 10:16	0.097		
2940	0.071	0.076	0.084	0.107	10:17:14	10/24/2011 10:17	0.113		
3000	0.108	0.118	0.137	0.185	10:18:14	10/24/2011 10:18	0.198		
3060	0.076	0.081	0.091	0.117	10:19:14	10/24/2011 10:19	0.122		
3120	0.049	0.051	0.054	0.06	10:20:14	10/24/2011 10:20	0.062		
3180	0.052	0.054	0.056	0.062	10:21:14	10/24/2011 10:21	0.063		
3240	0.063	0.067	0.073	0.088	10:22:14	10/24/2011 10:22	0.091		

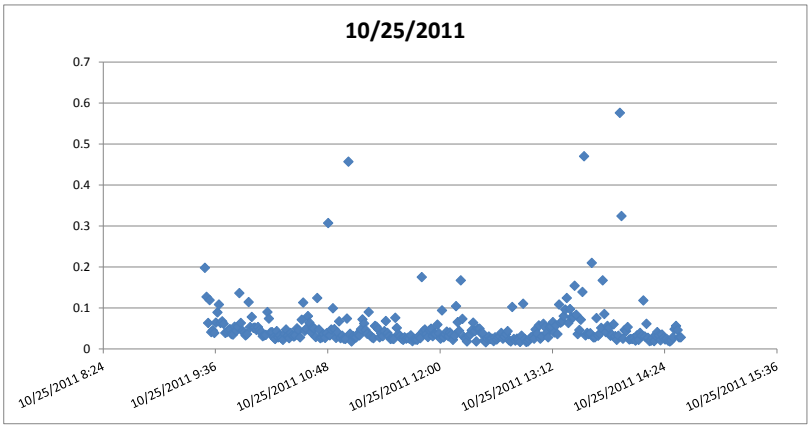
3300	0.051	0.052	0.055	0.065	10:23:14	10/24/2011 10:23	0.066
3360	0.049	0.05	0.053	0.06	10:24:14	10/24/2011 10:24	0.061
3420	0.056	0.058	0.063	0.077	10:25:14	10/24/2011 10:25	0.081
3480	0.056	0.058	0.061	0.073	10:26:14	10/24/2011 10:26	0.076
3540	0.058	0.061	0.067	0.08	10:27:14	10/24/2011 10:27	0.084
3600	0.051	0.053	0.055	0.062	10:28:14	10/24/2011 10:28	0.063
3660	0.063	0.066	0.073	0.089	10:29:14	10/24/2011 10:29	0.094
3720	0.088	0.089	0.092	0.11	10:30:14	10/24/2011 10:30	0.121
3780	0.084	0.088	0.095	0.114	10:31:14	10/24/2011 10:31	0.116
3840	0.087	0.091	0.097	0.116	10:32:14	10/24/2011 10:32	0.119
3900	0.075	0.078	0.083	0.097	10:33:14	10/24/2011 10:33	0.1
3960	0.064	0.065	0.069	0.078	10:34:14	10/24/2011 10:34	0.08
4020	0.054	0.056	0.059	0.068	10:35:14	10/24/2011 10:35	0.069
4080	0.047	0.048	0.051	0.057	10:36:14	10/24/2011 10:36	0.057
4140	0.056	0.058	0.061	0.07	10:37:14	10/24/2011 10:37	0.071
4200	0.054	0.056	0.059	0.065	10:38:14	10/24/2011 10:38	0.066
4260	0.058	0.06	0.064	0.076	10:39:14	10/24/2011 10:39	0.079
4320	0.047	0.048	0.049	0.055	10:40:14	10/24/2011 10:40	0.055
4380	0.053	0.055	0.059	0.07	10:41:14	10/24/2011 10:41	0.072
4440	0.051	0.052	0.056	0.063	10:42:14	10/24/2011 10:42	0.064
4500	0.062	0.064	0.067	0.075	10:43:14	10/24/2011 10:43	0.078
4560	0.045	0.046	0.049	0.057	10:44:14	10/24/2011 10:44	0.06
4620	0.07	0.071	0.075	0.087	10:45:14	10/24/2011 10:45	0.093
4680	0.043	0.044	0.046	0.05	10:46:14	10/24/2011 10:46	0.05
4740	0.045	0.047	0.049	0.056	10:47:14	10/24/2011 10:47	0.058
4800	0.05	0.052	0.055	0.063	10:48:14	10/24/2011 10:48	0.065
4860	0.041	0.042	0.044	0.049	10:49:14	10/24/2011 10:49	0.05
4920	0.04	0.04	0.041	0.044	10:50:14	10/24/2011 10:50	0.045
4980	0.039	0.04	0.041	0.043	10:51:14	10/24/2011 10:51	0.043
5040	0.081	0.084	0.091	0.107	10:52:14	10/24/2011 10:52	0.108
5100	0.081	0.085	0.093	0.113	10:53:14	10/24/2011 10:53	0.116
5160	0.056	0.058	0.062	0.073	10:54:14	10/24/2011 10:54	0.074
5220	0.101	0.102	0.105	0.12	10:55:14	10/24/2011 10:55	0.131
5280	0.055	0.056	0.057	0.062	10:56:14	10/24/2011 10:56	0.062
5340	0.051	0.053	0.055	0.062	10:57:14	10/24/2011 10:57	0.063
5400	0.049	0.05	0.052	0.058	10:58:14	10/24/2011 10:58	0.059
5460	0.06	0.062	0.068	0.082	10:59:14	10/24/2011 10:59	0.085
5520	0.058	0.06	0.065	0.079	11:00:14	10/24/2011 11:00	0.081
5580	0.048	0.049	0.052	0.059	11:01:14	10/24/2011 11:01	0.061
5640	0.045	0.046	0.048	0.052	11:02:14	10/24/2011 11:02	0.054
5700	0.04	0.041	0.042	0.045	11:03:14	10/24/2011 11:03	0.045
5760	0.04	0.041	0.042	0.046	11:04:14	10/24/2011 11:04	0.046
5820	0.047	0.048	0.05	0.058	11:05:14	10/24/2011 11:05	0.061
5880	0.065	0.066	0.069	0.074	11:06:14	10/24/2011 11:06	0.075
5940	0.045	0.046	0.047	0.051	11:07:14	10/24/2011 11:07	0.051
6000	0.043	0.043	0.045	0.047	11:08:14	10/24/2011 11:08	0.047
6060	0.056	0.058	0.061	0.07	11:09:14	10/24/2011 11:09	0.071
6120	0.045	0.046	0.047	0.052	11:10:14	10/24/2011 11:10	0.053
6180	0.064	0.067	0.072	0.087	11:11:14	10/24/2011 11:11	0.09
6240	0.057	0.059	0.063	0.076	11:12:14	10/24/2011 11:12	0.08
6300	0.046	0.047	0.049	0.055	11:13:14	10/24/2011 11:13	0.057
6360	0.051	0.053	0.056	0.063	11:14:14	10/24/2011 11:14	0.064
6420	0.067	0.071	0.078	0.095	11:15:14	10/24/2011 11:15	0.098
6480	0.055	0.058	0.062	0.073	11:16:14	10/24/2011 11:16	0.074
6540	0.048	0.049	0.052	0.056	11:17:14	10/24/2011 11:17	0.056
6600	0.046	0.047	0.05	0.056	11:18:14	10/24/2011 11:18	0.057
6660	0.045	0.046	0.047	0.05	11:19:14	10/24/2011 11:19	0.051
6720	0.042	0.043	0.045	0.048	11:20:14	10/24/2011 11:20	0.05
6780	0.056	0.058	0.062	0.073	11:21:14	10/24/2011 11:21	0.075
6840	0.053	0.055	0.058	0.068	11:22:14	10/24/2011 11:22	0.07
6900	0.059	0.062	0.065	0.076	11:23:14	10/24/2011 11:23	0.08
6960	0.059	0.061	0.065	0.074	11:24:14	10/24/2011 11:24	0.078
7020	0.076	0.08	0.088	0.105	11:25:14	10/24/2011 11:25	0.11
7080	0.044	0.045	0.047	0.051	11:26:14	10/24/2011 11:26	0.051
7140	0.091	0.093	0.097	0.111	11:27:14	10/24/2011 11:27	0.116
7200	0.059	0.061	0.064	0.072	11:28:14	10/24/2011 11:28	0.075
7260	0.064	0.066	0.07	0.078	11:29:14	10/24/2011 11:29	0.08
7320	0.076	0.08	0.088	0.109	11:30:14	10/24/2011 11:30	0.113
7380	0.062	0.065	0.071	0.087	11:31:14	10/24/2011 11:31	0.089
7440	0.057	0.06	0.064	0.077	11:32:14	10/24/2011 11:32	0.08
7500	0.044	0.044	0.046	0.05	11:33:14	10/24/2011 11:33	0.051
7560	0.044	0.045	0.046	0.049	11:34:14	10/24/2011 11:34	0.05
7620	0.052	0.054	0.056	0.061	11:35:14	10/24/2011 11:35	0.063
7680	0.043	0.044	0.045	0.05	11:36:14	10/24/2011 11:36	0.052
7740	0.043	0.044	0.046	0.05	11:37:14	10/24/2011 11:37	0.051
7800	0.042	0.043	0.045	0.051	11:38:14	10/24/2011 11:38	0.053
7860	0.045	0.046	0.047	0.049	11:39:14	10/24/2011 11:39	0.05
7920	0.066	0.069	0.078	0.103	11:40:14	10/24/2011 11:40	0.106
7980	0.056	0.059	0.064	0.077	11:41:14	10/24/2011 11:41	0.079
8040	0.047	0.049	0.052	0.059	11:42:14	10/24/2011 11:42	0.06
8100	0.044	0.044	0.045	0.047	11:43:14	10/24/2011 11:43	0.047
8160	0.08	0.083	0.089	0.104	11:44:14	10/24/2011 11:44	0.107
8220	0.086	0.09	0.096	0.112	11:45:14	10/24/2011 11:45	0.114
8280	0.066	0.07	0.077	0.094	11:46:14	10/24/2011 11:46	0.096
8340	0.053	0.054	0.057	0.065	11:47:14	10/24/2011 11:47	0.065
8400	0.047	0.048	0.05	0.055	11:48:14	10/24/2011 11:48	0.056
8460	0.041	0.042	0.044	0.047	11:49:14	10/24/2011 11:49	0.047
8520	0.045	0.046	0.048	0.053	11:50:14	10/24/2011 11:50	0.054
8580	0.047	0.049	0.051	0.057	11:51:14	10/24/2011 11:51	0.058
8640	0.075	0.079	0.085	0.102	11:52:14	10/24/2011 11:52	0.105
8700	0.044	0.045	0.047	0.052	11:53:14	10/24/2011 11:53	0.054

8760	0.054	0.056	0.06	0.073	11:54:14	10/24/2011 11:54	0.074
8820	0.054	0.057	0.061	0.073	11:55:14	10/24/2011 11:55	0.077
8880	0.048	0.05	0.052	0.058	11:56:14	10/24/2011 11:56	0.06
8940	0.05	0.052	0.055	0.063	11:57:14	10/24/2011 11:57	0.065
9000	0.113	0.115	0.118	0.133	11:58:14	10/24/2011 11:58	0.143
9060	0.056	0.058	0.062	0.069	11:59:14	10/24/2011 11:59	0.071
9120	0.056	0.057	0.061	0.07	12:00:14	10/24/2011 12:00	0.073
9180	0.054	0.056	0.06	0.072	12:01:14	10/24/2011 12:01	0.074
9240	0.055	0.058	0.064	0.078	12:02:14	10/24/2011 12:02	0.08
9300	0.095	0.101	0.113	0.145	12:03:14	10/24/2011 12:03	0.151
9360	0.079	0.082	0.088	0.104	12:04:14	10/24/2011 12:04	0.106
9420	0.061	0.063	0.068	0.078	12:05:14	10/24/2011 12:05	0.079
9480	0.055	0.056	0.058	0.066	12:06:14	10/24/2011 12:06	0.067
9540	0.046	0.047	0.049	0.053	12:07:14	10/24/2011 12:07	0.054
9600	0.049	0.05	0.053	0.058	12:08:14	10/24/2011 12:08	0.058
9660	0.048	0.049	0.051	0.055	12:09:14	10/24/2011 12:09	0.057
9720	0.052	0.054	0.058	0.068	12:10:14	10/24/2011 12:10	0.07
9780	0.051	0.052	0.054	0.06	12:11:14	10/24/2011 12:11	0.061
9840	0.048	0.049	0.051	0.054	12:12:14	10/24/2011 12:12	0.055
9900	0.046	0.047	0.048	0.052	12:13:14	10/24/2011 12:13	0.052
9960	0.051	0.052	0.053	0.058	12:14:14	10/24/2011 12:14	0.059
10020	0.06	0.061	0.063	0.07	12:15:14	10/24/2011 12:15	0.071
10080	0.063	0.065	0.069	0.077	12:16:14	10/24/2011 12:16	0.079
10140	0.051	0.052	0.054	0.056	12:17:14	10/24/2011 12:17	0.056
10200	0.071	0.072	0.073	0.076	12:18:14	10/24/2011 12:18	0.077
10260	0.058	0.06	0.063	0.073	12:19:14	10/24/2011 12:19	0.075
10320	0.059	0.061	0.064	0.07	12:20:14	10/24/2011 12:20	0.07
10380	0.054	0.056	0.058	0.061	12:21:14	10/24/2011 12:21	0.061
10440	0.048	0.049	0.051	0.055	12:22:14	10/24/2011 12:22	0.057
10500	0.061	0.063	0.067	0.075	12:23:14	10/24/2011 12:23	0.075
10560	0.052	0.054	0.058	0.066	12:24:14	10/24/2011 12:24	0.068
10620	0.047	0.048	0.051	0.056	12:25:14	10/24/2011 12:25	0.058
10680	0.05	0.051	0.052	0.055	12:26:14	10/24/2011 12:26	0.056
10740	0.053	0.054	0.055	0.058	12:27:14	10/24/2011 12:27	0.059
10800	0.062	0.063	0.065	0.07	12:28:14	10/24/2011 12:28	0.071
10860	0.047	0.048	0.049	0.051	12:29:14	10/24/2011 12:29	0.052
10920	0.043	0.044	0.044	0.046	12:30:14	10/24/2011 12:30	0.046
10980	0.043	0.043	0.044	0.047	12:31:14	10/24/2011 12:31	0.047
11040	0.052	0.054	0.056	0.062	12:32:14	10/24/2011 12:32	0.062
11100	0.047	0.048	0.05	0.055	12:33:14	10/24/2011 12:33	0.055
11160	0.049	0.05	0.052	0.055	12:34:14	10/24/2011 12:34	0.055
11220	0.047	0.048	0.049	0.051	12:35:14	10/24/2011 12:35	0.052
11280	0.047	0.048	0.05	0.055	12:36:14	10/24/2011 12:36	0.056
11340	0.043	0.043	0.044	0.046	12:37:14	10/24/2011 12:37	0.047
11400	0.05	0.051	0.053	0.057	12:38:14	10/24/2011 12:38	0.058
11460	0.045	0.045	0.047	0.05	12:39:14	10/24/2011 12:39	0.051
11520	0.048	0.049	0.05	0.053	12:40:14	10/24/2011 12:40	0.054
11580	0.051	0.052	0.054	0.06	12:41:14	10/24/2011 12:41	0.061
11640	0.068	0.069	0.071	0.078	12:42:14	10/24/2011 12:42	0.083
11700	0.082	0.082	0.084	0.086	12:43:14	10/24/2011 12:43	0.087
11760	0.048	0.049	0.05	0.053	12:44:14	10/24/2011 12:44	0.053
11820	0.052	0.053	0.055	0.06	12:45:14	10/24/2011 12:45	0.06
11880	0.064	0.066	0.07	0.081	12:46:14	10/24/2011 12:46	0.082
11940	0.046	0.047	0.049	0.054	12:47:14	10/24/2011 12:47	0.054
12000	0.044	0.045	0.047	0.052	12:48:14	10/24/2011 12:48	0.053
12060	0.039	0.04	0.041	0.043	12:49:14	10/24/2011 12:49	0.044
12120	0.053	0.053	0.055	0.06	12:50:14	10/24/2011 12:50	0.061
12180	0.055	0.056	0.058	0.064	12:51:14	10/24/2011 12:51	0.065
12240	0.058	0.059	0.062	0.068	12:52:14	10/24/2011 12:52	0.069
12300	0.051	0.052	0.054	0.059	12:53:14	10/24/2011 12:53	0.06
12360	0.049	0.05	0.051	0.054	12:54:14	10/24/2011 12:54	0.056
12420	0.065	0.066	0.067	0.071	12:55:14	10/24/2011 12:55	0.072
12480	0.055	0.056	0.058	0.06	12:56:14	10/24/2011 12:56	0.061
12540	0.043	0.043	0.044	0.047	12:57:14	10/24/2011 12:57	0.047
12600	0.041	0.042	0.043	0.046	12:58:14	10/24/2011 12:58	0.046
12660	0.045	0.046	0.048	0.052	12:59:14	10/24/2011 12:59	0.053
12720	0.053	0.054	0.056	0.06	13:00:14	10/24/2011 13:00	0.061
12780	0.042	0.043	0.044	0.046	13:01:14	10/24/2011 13:01	0.047
12840	0.057	0.058	0.06	0.065	13:02:14	10/24/2011 13:02	0.066
12900	0.067	0.069	0.071	0.076	13:03:14	10/24/2011 13:03	0.077
12960	0.064	0.066	0.069	0.077	13:04:14	10/24/2011 13:04	0.079
13020	0.056	0.057	0.06	0.068	13:05:14	10/24/2011 13:05	0.071
13080	0.05	0.051	0.053	0.06	13:06:14	10/24/2011 13:06	0.062
13140	0.046	0.047	0.049	0.054	13:07:14	10/24/2011 13:07	0.054
13200	0.048	0.049	0.051	0.058	13:08:14	10/24/2011 13:08	0.059
13260	0.061	0.063	0.066	0.072	13:09:14	10/24/2011 13:09	0.073
13320	0.056	0.058	0.061	0.068	13:10:14	10/24/2011 13:10	0.069
13380	0.051	0.053	0.055	0.062	13:11:14	10/24/2011 13:11	0.064
13440	0.053	0.055	0.057	0.064	13:12:14	10/24/2011 13:12	0.064
13500	0.068	0.07	0.075	0.087	13:13:14	10/24/2011 13:13	0.088
13560	0.053	0.054	0.058	0.067	13:14:14	10/24/2011 13:14	0.068
13620	0.044	0.045	0.047	0.051	13:15:14	10/24/2011 13:15	0.052
13680	0.042	0.043	0.044	0.046	13:16:14	10/24/2011 13:16	0.046
13740	0.054	0.055	0.057	0.064	13:17:14	10/24/2011 13:17	0.064
13800	0.04	0.041	0.041	0.043	13:18:14	10/24/2011 13:18	0.043
13860	0.042	0.043	0.044	0.046	13:19:14	10/24/2011 13:19	0.046
13920	0.053	0.054	0.055	0.058	13:20:14	10/24/2011 13:20	0.059
13980	0.053	0.054	0.058	0.07	13:21:14	10/24/2011 13:21	0.071
14040	0.056	0.058	0.06	0.07	13:22:14	10/24/2011 13:22	0.072
14100	0.055	0.057	0.063	0.084	13:23:14	10/24/2011 13:23	0.088
14160	0.055	0.057	0.06	0.07	13:24:14	10/24/2011 13:24	0.072

14220	0.044	0.045	0.047	0.052	13:25:14	10/24/2011 13:25	0.053
14280	0.043	0.044	0.046	0.05	13:26:14	10/24/2011 13:26	0.051
14340	0.053	0.054	0.056	0.062	13:27:14	10/24/2011 13:27	0.065
14400	0.048	0.049	0.05	0.054	13:28:14	10/24/2011 13:28	0.054
14460	0.042	0.043	0.044	0.047	13:29:14	10/24/2011 13:29	0.047
14520	0.043	0.044	0.046	0.052	13:30:14	10/24/2011 13:30	0.053
14580	0.051	0.052	0.055	0.061	13:31:14	10/24/2011 13:31	0.062
14640	0.045	0.046	0.048	0.051	13:32:14	10/24/2011 13:32	0.052
14700	0.074	0.075	0.077	0.081	13:33:14	10/24/2011 13:33	0.082
14760	0.052	0.053	0.055	0.058	13:34:14	10/24/2011 13:34	0.059
14820	0.042	0.043	0.044	0.046	13:35:14	10/24/2011 13:35	0.047
14880	0.052	0.053	0.055	0.058	13:36:14	10/24/2011 13:36	0.059
14940	0.047	0.049	0.051	0.056	13:37:14	10/24/2011 13:37	0.059
15000	0.05	0.051	0.053	0.06	13:38:14	10/24/2011 13:38	0.061
15060	0.057	0.058	0.06	0.067	13:39:14	10/24/2011 13:39	0.068
15120	0.057	0.058	0.061	0.069	13:40:14	10/24/2011 13:40	0.07
15180	0.067	0.069	0.073	0.083	13:41:14	10/24/2011 13:41	0.085
15240	0.229	0.244	0.281	0.386	13:42:14	10/24/2011 13:42	0.401
15300	0.186	0.192	0.208	0.279	13:43:14	10/24/2011 13:43	0.337
15360	0.068	0.072	0.078	0.096	13:44:14	10/24/2011 13:44	0.1
15420	0.09	0.096	0.107	0.137	13:45:14	10/24/2011 13:45	0.141
15480	0.046	0.047	0.049	0.055	13:46:14	10/24/2011 13:46	0.056
15540	0.049	0.051	0.054	0.063	13:47:14	10/24/2011 13:47	0.064
15600	0.054	0.056	0.06	0.069	13:48:14	10/24/2011 13:48	0.07
15660	0.053	0.055	0.058	0.065	13:49:14	10/24/2011 13:49	0.065
15720	0.048	0.049	0.051	0.054	13:50:14	10/24/2011 13:50	0.054
15780	0.06	0.062	0.066	0.078	13:51:14	10/24/2011 13:51	0.08
15840	0.084	0.09	0.102	0.136	13:52:14	10/24/2011 13:52	0.142
15900	0.061	0.064	0.07	0.09	13:53:14	10/24/2011 13:53	0.092
15960	0.063	0.065	0.072	0.092	13:54:14	10/24/2011 13:54	0.098
16020	0.053	0.055	0.06	0.071	13:55:14	10/24/2011 13:55	0.074
16080	0.065	0.067	0.072	0.086	13:56:14	10/24/2011 13:56	0.089
16140	0.058	0.06	0.065	0.075	13:57:14	10/24/2011 13:57	0.078
16200	0.042	0.043	0.044	0.046	13:58:14	10/24/2011 13:58	0.047
16260	0.061	0.063	0.067	0.08	13:59:14	10/24/2011 13:59	0.082
16320	0.053	0.054	0.057	0.062	14:00:14	10/24/2011 14:00	0.063
16380	0.044	0.045	0.046	0.051	14:01:14	10/24/2011 14:01	0.052
16440	0.06	0.061	0.064	0.072	14:02:14	10/24/2011 14:02	0.074
16500	0.044	0.045	0.046	0.05	14:03:14	10/24/2011 14:03	0.05
16560	0.069	0.072	0.08	0.107	14:04:14	10/24/2011 14:04	0.115
16620	0.053	0.055	0.058	0.067	14:05:14	10/24/2011 14:05	0.068
16680	0.044	0.045	0.046	0.05	14:06:14	10/24/2011 14:06	0.05
16740	0.043	0.044	0.045	0.049	14:07:14	10/24/2011 14:07	0.05
16800	0.044	0.045	0.046	0.05	14:08:14	10/24/2011 14:08	0.051
16860	0.052	0.053	0.055	0.059	14:09:14	10/24/2011 14:09	0.059
16920	0.046	0.047	0.049	0.054	14:10:14	10/24/2011 14:10	0.055
16980	0.039	0.04	0.041	0.043	14:11:14	10/24/2011 14:11	0.044
17040	0.038	0.038	0.039	0.041	14:12:14	10/24/2011 14:12	0.041
17100	0.041	0.041	0.043	0.045	14:13:14	10/24/2011 14:13	0.045
17160	0.044	0.045	0.047	0.05	14:14:14	10/24/2011 14:14	0.05
17220	0.059	0.06	0.061	0.064	14:15:14	10/24/2011 14:15	0.065
17280	0.047	0.047	0.049	0.051	14:16:14	10/24/2011 14:16	0.051
17340	0.051	0.051	0.052	0.055	14:17:14	10/24/2011 14:17	0.055
17400	0.055	0.057	0.061	0.071	14:18:14	10/24/2011 14:18	0.073
17460	0.053	0.054	0.057	0.062	14:19:14	10/24/2011 14:19	0.064
17520	0.04	0.041	0.041	0.043	14:20:14	10/24/2011 14:20	0.043
17580	0.045	0.046	0.047	0.05	14:21:14	10/24/2011 14:21	0.051
17640	0.041	0.041	0.042	0.043	14:22:14	10/24/2011 14:22	0.043
17700	0.037	0.037	0.037	0.038	14:23:14	10/24/2011 14:23	0.038
17760	0.046	0.047	0.049	0.054	14:24:14	10/24/2011 14:24	0.055
17820	0.076	0.077	0.079	0.083	14:25:14	10/24/2011 14:25	0.084
17880	0.055	0.057	0.06	0.068	14:26:14	10/24/2011 14:26	0.07
17940	0.045	0.046	0.047	0.05	14:27:14	10/24/2011 14:27	0.051
18000	0.075	0.078	0.086	0.114	14:28:14	10/24/2011 14:28	0.115
18060	0.055	0.056	0.058	0.063	14:29:14	10/24/2011 14:29	0.064
18120	0.061	0.064	0.07	0.084	14:30:14	10/24/2011 14:30	0.085
18180	0.069	0.073	0.082	0.111	14:31:14	10/24/2011 14:31	0.114
18240	0.054	0.056	0.059	0.069	14:32:14	10/24/2011 14:32	0.071
18300	0.04	0.04	0.041	0.043	14:33:14	10/24/2011 14:33	0.044
18360	0.052	0.053	0.056	0.063	14:34:14	10/24/2011 14:34	0.064
18420	0.05	0.051	0.054	0.06	14:35:14	10/24/2011 14:35	0.062
18480	0.055	0.056	0.058	0.065	14:36:14	10/24/2011 14:36	0.065
18540	0.045	0.046	0.049	0.056	14:37:14	10/24/2011 14:37	0.058
18600	0.053	0.055	0.059	0.07	14:38:14	10/24/2011 14:38	0.073
18660	0.052	0.054	0.058	0.065	14:39:14	10/24/2011 14:39	0.066
18720	0.055	0.057	0.062	0.072	14:40:14	10/24/2011 14:40	0.074
18780	0.045	0.046	0.048	0.057	14:41:14	10/24/2011 14:41	0.06
18840	0.049	0.05	0.052	0.058	14:42:14	10/24/2011 14:42	0.06
18900	0.062	0.064	0.069	0.081	14:43:14	10/24/2011 14:43	0.085
18960	0.041	0.042	0.043	0.045	14:44:14	10/24/2011 14:44	0.046
19020	0.044	0.044	0.046	0.049	14:45:14	10/24/2011 14:45	0.05
19080	0.043	0.043	0.044	0.047	14:46:14	10/24/2011 14:46	0.047
19140	0.046	0.047	0.048	0.05	14:47:14	10/24/2011 14:47	0.05
19200	0.067	0.068	0.069	0.071	14:48:14	10/24/2011 14:48	0.073
19260	0.039	0.04	0.041	0.043	14:49:14	10/24/2011 14:49	0.043
19320	0.039	0.039	0.04	0.042	14:50:14	10/24/2011 14:50	0.042
19380	0.055	0.055	0.057	0.06	14:51:14	10/24/2011 14:51	0.061
19440	0.056	0.059	0.063	0.072	14:52:14	10/24/2011 14:52	0.073
19500	0.049	0.05	0.052	0.058	14:53:14	10/24/2011 14:53	0.058
19560	0.038	0.038	0.039	0.04	14:54:14	10/24/2011 14:54	0.04
19620	0.037	0.038	0.039	0.04	14:55:14	10/24/2011 14:55	0.041

19680	0.053	0.054	0.055	0.058	14:56:14	10/24/2011 14:56	0.058
19740	0.054	0.055	0.056	0.058	14:57:14	10/24/2011 14:57	0.058
19800	0.045	0.046	0.047	0.049	14:58:14	10/24/2011 14:58	0.049

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_007
Test Start Time	9:28:23
Test Start Date	10/25/2011
Test Length [D:H:M]	0:05:06
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.033
PM1 Minimum [mg/m3]	0.011
PM1 Maximum [mg/m3]	0.45
PM1 TWA [mg/m3]	0.021
PM2.5 Average [mg/m3]	0.034
PM2.5 Minimum [mg/m3]	0.012
PM2.5 Maximum [mg/m3]	0.453
PM2.5 TWA [mg/m3]	0.022
PM4 Average [mg/m3]	0.037
PM4 Minimum [mg/m3]	0.014
PM4 Maximum [mg/m3]	0.462
PM4 TWA [mg/m3]	0.024
PM10 Average [mg/m3]	0.048
PM10 Minimum [mg/m3]	0.015
PM10 Maximum [mg/m3]	0.525
PM10 TWA [mg/m3]	0.03
TOTAL Average [mg/m3]	0.052
TOTAL Minimum [mg/m3]	0.016
TOTAL Maximum [mg/m3]	0.576
TOTAL TWA [mg/m3]	0.033
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	306



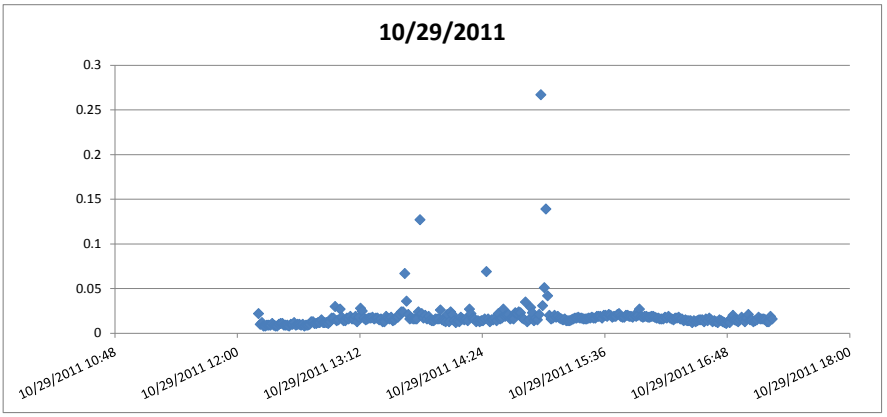
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	9:28:23	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.07	0.073	0.081	0.142	9:29:23	10/25/2011 9:29	0.198		
120	0.063	0.067	0.075	0.11	9:30:23	10/25/2011 9:30	0.127		
180	0.042	0.044	0.047	0.058	9:31:23	10/25/2011 9:31	0.063		
240	0.068	0.072	0.079	0.105	9:32:23	10/25/2011 9:32	0.119		
300	0.032	0.033	0.034	0.039	9:33:23	10/25/2011 9:33	0.041		
360	0.034	0.035	0.038	0.044	9:34:23	10/25/2011 9:34	0.045		
420	0.03	0.031	0.033	0.039	9:35:23	10/25/2011 9:35	0.039		
480	0.053	0.055	0.058	0.063	9:36:23	10/25/2011 9:36	0.064		
540	0.051	0.053	0.06	0.081	9:37:23	10/25/2011 9:37	0.089		
600	0.055	0.059	0.07	0.102	9:38:23	10/25/2011 9:38	0.108		
660	0.041	0.042	0.046	0.059	9:39:23	10/25/2011 9:39	0.063		
720	0.042	0.044	0.05	0.064	9:40:23	10/25/2011 9:40	0.067		
780	0.038	0.04	0.046	0.058	9:41:23	10/25/2011 9:41	0.061		
840	0.03	0.031	0.034	0.038	9:42:23	10/25/2011 9:42	0.039		
900	0.031	0.032	0.034	0.039	9:43:23	10/25/2011 9:43	0.041		
960	0.035	0.036	0.038	0.044	9:44:23	10/25/2011 9:44	0.045		
1020	0.032	0.033	0.037	0.045	9:45:23	10/25/2011 9:45	0.048		
1080	0.028	0.028	0.03	0.034	9:46:23	10/25/2011 9:46	0.036		
1140	0.029	0.03	0.031	0.034	9:47:23	10/25/2011 9:47	0.035		
1200	0.041	0.043	0.046	0.053	9:48:23	10/25/2011 9:48	0.054		
1260	0.032	0.034	0.037	0.043	9:49:23	10/25/2011 9:49	0.044		
1320	0.031	0.033	0.038	0.051	9:50:23	10/25/2011 9:50	0.054		
1380	0.076	0.081	0.094	0.127	9:51:23	10/25/2011 9:51	0.136		
1440	0.033	0.036	0.042	0.058	9:52:23	10/25/2011 9:52	0.063		
1500	0.028	0.029	0.034	0.042	9:53:23	10/25/2011 9:53	0.044		
1560	0.029	0.03	0.033	0.039	9:54:23	10/25/2011 9:54	0.04		
1620	0.026	0.027	0.029	0.031	9:55:23	10/25/2011 9:55	0.033		
1680	0.029	0.029	0.031	0.034	9:56:23	10/25/2011 9:56	0.036		
1740	0.067	0.069	0.074	0.1	9:57:23	10/25/2011 9:57	0.114		
1800	0.04	0.041	0.044	0.051	9:58:23	10/25/2011 9:58	0.053		
1860	0.057	0.059	0.064	0.074	9:59:23	10/25/2011 9:59	0.078		
1920	0.035	0.037	0.041	0.048	10:00:23	10/25/2011 10:00	0.051		
1980	0.036	0.038	0.042	0.051	10:01:23	10/25/2011 10:01	0.052		
2040	0.031	0.033	0.036	0.045	10:02:23	10/25/2011 10:02	0.046		
2100	0.035	0.038	0.042	0.052	10:03:23	10/25/2011 10:03	0.053		
2160	0.031	0.033	0.037	0.043	10:04:23	10/25/2011 10:04	0.046		
2220	0.031	0.033	0.035	0.04	10:05:23	10/25/2011 10:05	0.041		
2280	0.026	0.026	0.027	0.029	10:06:23	10/25/2011 10:06	0.031		
2340	0.027	0.027	0.029	0.033	10:07:23	10/25/2011 10:07	0.033		
2400	0.025	0.026	0.028	0.032	10:08:23	10/25/2011 10:08	0.034		
2460	0.046	0.049	0.058	0.083	10:09:23	10/25/2011 10:09	0.09		
2520	0.039	0.041	0.048	0.067	10:10:23	10/25/2011 10:10	0.074		
2580	0.024	0.026	0.028	0.037	10:11:23	10/25/2011 10:11	0.04		
2640	0.027	0.028	0.03	0.038	10:12:23	10/25/2011 10:12	0.041		
2700	0.024	0.024	0.026	0.028	10:13:23	10/25/2011 10:13	0.028		
2760	0.021	0.021	0.022	0.023	10:14:23	10/25/2011 10:14	0.024		
2820	0.027	0.028	0.032	0.04	10:15:23	10/25/2011 10:15	0.043		
2880	0.023	0.023	0.025	0.027	10:16:23	10/25/2011 10:16	0.028		
2940	0.027	0.027	0.029	0.033	10:17:23	10/25/2011 10:17	0.033		
3000	0.021	0.022	0.023	0.026	10:18:23	10/25/2011 10:18	0.026		
3060	0.02	0.02	0.021	0.022	10:19:23	10/25/2011 10:19	0.022		
3120	0.023	0.024	0.026	0.035	10:20:23	10/25/2011 10:20	0.037		
3180	0.029	0.031	0.035	0.045	10:21:23	10/25/2011 10:21	0.047		
3240	0.02	0.021	0.024	0.032	10:22:23	10/25/2011 10:22	0.032		

3300	0.02	0.021	0.023	0.026	10:23:23	10/25/2011 10:23	0.026
3360	0.027	0.028	0.031	0.038	10:24:23	10/25/2011 10:24	0.039
3420	0.022	0.023	0.026	0.033	10:25:23	10/25/2011 10:25	0.033
3480	0.022	0.023	0.025	0.029	10:26:23	10/25/2011 10:26	0.03
3540	0.023	0.024	0.026	0.031	10:27:23	10/25/2011 10:27	0.033
3600	0.031	0.032	0.035	0.045	10:28:23	10/25/2011 10:28	0.05
3660	0.034	0.035	0.038	0.044	10:29:23	10/25/2011 10:29	0.045
3720	0.021	0.021	0.023	0.027	10:30:23	10/25/2011 10:30	0.028
3780	0.041	0.043	0.049	0.064	10:31:23	10/25/2011 10:31	0.071
3840	0.067	0.07	0.078	0.102	10:32:23	10/25/2011 10:32	0.113
3900	0.026	0.027	0.03	0.041	10:33:23	10/25/2011 10:33	0.044
3960	0.029	0.03	0.035	0.046	10:34:23	10/25/2011 10:34	0.049
4020	0.048	0.051	0.058	0.075	10:35:23	10/25/2011 10:35	0.08
4080	0.041	0.044	0.049	0.062	10:36:23	10/25/2011 10:36	0.064
4140	0.023	0.024	0.028	0.038	10:37:23	10/25/2011 10:37	0.041
4200	0.029	0.031	0.037	0.05	10:38:23	10/25/2011 10:38	0.052
4260	0.036	0.037	0.04	0.049	10:39:23	10/25/2011 10:39	0.05
4320	0.023	0.023	0.024	0.027	10:40:23	10/25/2011 10:40	0.029
4380	0.087	0.088	0.092	0.11	10:41:23	10/25/2011 10:41	0.124
4440	0.034	0.036	0.038	0.045	10:42:23	10/25/2011 10:42	0.047
4500	0.02	0.02	0.022	0.025	10:43:23	10/25/2011 10:43	0.026
4560	0.021	0.022	0.023	0.028	10:44:23	10/25/2011 10:44	0.028
4620	0.025	0.027	0.029	0.036	10:45:23	10/25/2011 10:45	0.036
4680	0.021	0.021	0.022	0.026	10:46:23	10/25/2011 10:46	0.027
4740	0.026	0.027	0.029	0.035	10:47:23	10/25/2011 10:47	0.038
4800	0.149	0.159	0.186	0.274	10:48:23	10/25/2011 10:48	0.307
4860	0.022	0.024	0.027	0.033	10:49:23	10/25/2011 10:49	0.033
4920	0.026	0.027	0.032	0.044	10:50:23	10/25/2011 10:50	0.047
4980	0.053	0.057	0.066	0.092	10:51:23	10/25/2011 10:51	0.099
5040	0.027	0.029	0.033	0.044	10:52:23	10/25/2011 10:52	0.048
5100	0.02	0.021	0.023	0.027	10:53:23	10/25/2011 10:53	0.027
5160	0.033	0.034	0.036	0.04	10:54:23	10/25/2011 10:54	0.04
5220	0.044	0.046	0.051	0.063	10:55:23	10/25/2011 10:55	0.067
5280	0.019	0.02	0.021	0.025	10:56:23	10/25/2011 10:56	0.026
5340	0.021	0.023	0.025	0.031	10:57:23	10/25/2011 10:57	0.032
5400	0.019	0.02	0.021	0.025	10:58:23	10/25/2011 10:58	0.025
5460	0.02	0.021	0.022	0.024	10:59:23	10/25/2011 10:59	0.024
5520	0.042	0.046	0.054	0.072	11:00:23	10/25/2011 11:00	0.074
5580	0.275	0.279	0.291	0.38	11:01:23	10/25/2011 11:01	0.457
5640	0.028	0.029	0.03	0.035	11:02:23	10/25/2011 11:02	0.037
5700	0.015	0.016	0.017	0.018	11:03:23	10/25/2011 11:03	0.018
5760	0.021	0.022	0.023	0.029	11:04:23	10/25/2011 11:04	0.031
5820	0.021	0.022	0.023	0.026	11:05:23	10/25/2011 11:05	0.028
5880	0.023	0.023	0.025	0.027	11:06:23	10/25/2011 11:06	0.028
5940	0.023	0.025	0.027	0.035	11:07:23	10/25/2011 11:07	0.037
6000	0.022	0.023	0.025	0.032	11:08:23	10/25/2011 11:08	0.033
6060	0.031	0.032	0.036	0.046	11:09:23	10/25/2011 11:09	0.048
6120	0.038	0.04	0.047	0.067	11:10:23	10/25/2011 11:10	0.072
6180	0.036	0.039	0.044	0.059	11:11:23	10/25/2011 11:11	0.062
6240	0.032	0.034	0.037	0.045	11:12:23	10/25/2011 11:12	0.046
6300	0.029	0.03	0.032	0.037	11:13:23	10/25/2011 11:13	0.037
6360	0.061	0.063	0.066	0.08	11:14:23	10/25/2011 11:14	0.09
6420	0.026	0.027	0.028	0.032	11:15:23	10/25/2011 11:15	0.033
6480	0.024	0.025	0.026	0.028	11:16:23	10/25/2011 11:16	0.028
6540	0.022	0.022	0.023	0.026	11:17:23	10/25/2011 11:17	0.026
6600	0.034	0.036	0.041	0.053	11:18:23	10/25/2011 11:18	0.056
6660	0.044	0.046	0.048	0.054	11:19:23	10/25/2011 11:19	0.054
6720	0.035	0.037	0.04	0.047	11:20:23	10/25/2011 11:20	0.048
6780	0.023	0.024	0.025	0.028	11:21:23	10/25/2011 11:21	0.028
6840	0.027	0.028	0.03	0.037	11:22:23	10/25/2011 11:22	0.038
6900	0.023	0.024	0.025	0.029	11:23:23	10/25/2011 11:23	0.031
6960	0.03	0.031	0.034	0.041	11:24:23	10/25/2011 11:24	0.043
7020	0.039	0.042	0.048	0.064	11:25:23	10/25/2011 11:25	0.068
7080	0.026	0.027	0.03	0.037	11:26:23	10/25/2011 11:26	0.039
7140	0.021	0.022	0.024	0.03	11:27:23	10/25/2011 11:27	0.031
7200	0.017	0.018	0.019	0.023	11:28:23	10/25/2011 11:28	0.024
7260	0.018	0.019	0.02	0.024	11:29:23	10/25/2011 11:29	0.025
7320	0.019	0.02	0.021	0.024	11:30:23	10/25/2011 11:30	0.024
7380	0.045	0.048	0.056	0.074	11:31:23	10/25/2011 11:31	0.076
7440	0.029	0.031	0.035	0.048	11:32:23	10/25/2011 11:32	0.051
7500	0.024	0.025	0.028	0.034	11:33:23	10/25/2011 11:33	0.036
7560	0.021	0.022	0.024	0.03	11:34:23	10/25/2011 11:34	0.031
7620	0.019	0.02	0.022	0.025	11:35:23	10/25/2011 11:35	0.025
7680	0.017	0.018	0.019	0.022	11:36:23	10/25/2011 11:36	0.022
7740	0.022	0.023	0.024	0.027	11:37:23	10/25/2011 11:37	0.028
7800	0.021	0.022	0.023	0.025	11:38:23	10/25/2011 11:38	0.025
7860	0.022	0.022	0.024	0.027	11:39:23	10/25/2011 11:39	0.027
7920	0.02	0.021	0.022	0.025	11:40:23	10/25/2011 11:40	0.025
7980	0.025	0.026	0.028	0.032	11:41:23	10/25/2011 11:41	0.033
8040	0.017	0.018	0.018	0.019	11:42:23	10/25/2011 11:42	0.019
8100	0.02	0.02	0.022	0.024	11:43:23	10/25/2011 11:43	0.024
8160	0.019	0.02	0.02	0.022	11:44:23	10/25/2011 11:44	0.023
8220	0.019	0.019	0.02	0.022	11:45:23	10/25/2011 11:45	0.022
8280	0.022	0.023	0.026	0.03	11:46:23	10/25/2011 11:46	0.031
8340	0.019	0.02	0.022	0.026	11:47:23	10/25/2011 11:47	0.026
8400	0.108	0.11	0.116	0.151	11:48:23	10/25/2011 11:48	0.175
8460	0.025	0.027	0.03	0.039	11:49:23	10/25/2011 11:49	0.043
8520	0.033	0.035	0.038	0.045	11:50:23	10/25/2011 11:50	0.047
8580	0.025	0.026	0.029	0.034	11:51:23	10/25/2011 11:51	0.036
8640	0.022	0.023	0.025	0.028	11:52:23	10/25/2011 11:52	0.029
8700	0.027	0.029	0.033	0.043	11:53:23	10/25/2011 11:53	0.045

8760	0.03	0.031	0.036	0.046	11:54:23	10/25/2011 11:54	0.049
8820	0.023	0.024	0.026	0.031	11:55:23	10/25/2011 11:55	0.031
8880	0.024	0.025	0.029	0.036	11:56:23	10/25/2011 11:56	0.037
8940	0.023	0.025	0.028	0.036	11:57:23	10/25/2011 11:57	0.036
9000	0.038	0.04	0.046	0.058	11:58:23	10/25/2011 11:58	0.059
9060	0.027	0.028	0.031	0.037	11:59:23	10/25/2011 11:59	0.038
9120	0.02	0.02	0.021	0.025	12:00:23	10/25/2011 12:00	0.025
9180	0.066	0.067	0.07	0.084	12:01:23	10/25/2011 12:01	0.094
9240	0.019	0.02	0.022	0.027	12:02:23	10/25/2011 12:02	0.028
9300	0.023	0.025	0.028	0.036	12:03:23	10/25/2011 12:03	0.036
9360	0.024	0.026	0.03	0.041	12:04:23	10/25/2011 12:04	0.042
9420	0.023	0.024	0.026	0.031	12:05:23	10/25/2011 12:05	0.031
9480	0.028	0.03	0.033	0.039	12:06:23	10/25/2011 12:06	0.04
9540	0.022	0.023	0.027	0.034	12:07:23	10/25/2011 12:07	0.035
9600	0.016	0.017	0.019	0.022	12:08:23	10/25/2011 12:08	0.022
9660	0.022	0.023	0.026	0.031	12:09:23	10/25/2011 12:09	0.032
9720	0.058	0.063	0.074	0.1	12:10:23	10/25/2011 12:10	0.104
9780	0.041	0.043	0.048	0.062	12:11:23	10/25/2011 12:11	0.065
9840	0.032	0.034	0.037	0.043	12:12:23	10/25/2011 12:12	0.044
9900	0.119	0.122	0.128	0.157	12:13:23	10/25/2011 12:13	0.167
9960	0.048	0.049	0.052	0.067	12:14:23	10/25/2011 12:14	0.073
10020	0.02	0.021	0.023	0.028	12:15:23	10/25/2011 12:15	0.029
10080	0.017	0.018	0.02	0.024	12:16:23	10/25/2011 12:16	0.025
10140	0.014	0.015	0.016	0.018	12:17:23	10/25/2011 12:17	0.018
10200	0.019	0.021	0.024	0.032	12:18:23	10/25/2011 12:18	0.032
10260	0.019	0.02	0.024	0.032	12:19:23	10/25/2011 12:19	0.035
10320	0.024	0.025	0.029	0.042	12:20:23	10/25/2011 12:20	0.045
10380	0.038	0.04	0.047	0.062	12:21:23	10/25/2011 12:21	0.064
10440	0.026	0.028	0.032	0.041	12:22:23	10/25/2011 12:22	0.043
10500	0.013	0.014	0.015	0.017	12:23:23	10/25/2011 12:23	0.018
10560	0.044	0.045	0.046	0.048	12:24:23	10/25/2011 12:24	0.049
10620	0.028	0.029	0.033	0.047	12:25:23	10/25/2011 12:25	0.049
10680	0.022	0.024	0.029	0.038	12:26:23	10/25/2011 12:26	0.039
10740	0.021	0.023	0.027	0.036	12:27:23	10/25/2011 12:27	0.038
10800	0.015	0.015	0.017	0.02	12:28:23	10/25/2011 12:28	0.021
10860	0.013	0.013	0.014	0.015	12:29:23	10/25/2011 12:29	0.016
10920	0.018	0.019	0.021	0.024	12:30:23	10/25/2011 12:30	0.025
10980	0.019	0.021	0.023	0.029	12:31:23	10/25/2011 12:31	0.03
11040	0.017	0.018	0.02	0.024	12:32:23	10/25/2011 12:32	0.024
11100	0.017	0.018	0.02	0.024	12:33:23	10/25/2011 12:33	0.025
11160	0.014	0.015	0.016	0.019	12:34:23	10/25/2011 12:34	0.019
11220	0.019	0.021	0.023	0.027	12:35:23	10/25/2011 12:35	0.028
11280	0.016	0.016	0.018	0.023	12:36:23	10/25/2011 12:36	0.023
11340	0.018	0.019	0.021	0.027	12:37:23	10/25/2011 12:37	0.028
11400	0.021	0.023	0.025	0.031	12:38:23	10/25/2011 12:38	0.031
11460	0.026	0.028	0.031	0.038	12:39:23	10/25/2011 12:39	0.039
11520	0.018	0.019	0.02	0.024	12:40:23	10/25/2011 12:40	0.025
11580	0.024	0.025	0.026	0.029	12:41:23	10/25/2011 12:41	0.03
11640	0.026	0.027	0.029	0.035	12:42:23	10/25/2011 12:42	0.036
11700	0.037	0.038	0.039	0.043	12:43:23	10/25/2011 12:43	0.043
11760	0.019	0.019	0.02	0.021	12:44:23	10/25/2011 12:44	0.021
11820	0.014	0.014	0.015	0.017	12:45:23	10/25/2011 12:45	0.018
11880	0.045	0.049	0.059	0.093	12:46:23	10/25/2011 12:46	0.102
11940	0.017	0.017	0.019	0.023	12:47:23	10/25/2011 12:47	0.024
12000	0.015	0.015	0.016	0.019	12:48:23	10/25/2011 12:48	0.02
12060	0.019	0.02	0.021	0.025	12:49:23	10/25/2011 12:49	0.025
12120	0.016	0.016	0.017	0.022	12:50:23	10/25/2011 12:50	0.022
12180	0.014	0.015	0.015	0.017	12:51:23	10/25/2011 12:51	0.017
12240	0.021	0.022	0.023	0.029	12:52:23	10/25/2011 12:52	0.032
12300	0.052	0.054	0.058	0.087	12:53:23	10/25/2011 12:53	0.11
12360	0.017	0.017	0.019	0.023	12:54:23	10/25/2011 12:54	0.024
12420	0.014	0.015	0.015	0.017	12:55:23	10/25/2011 12:55	0.017
12480	0.015	0.015	0.016	0.018	12:56:23	10/25/2011 12:56	0.018
12540	0.017	0.018	0.02	0.023	12:57:23	10/25/2011 12:57	0.023
12600	0.019	0.02	0.022	0.027	12:58:23	10/25/2011 12:58	0.028
12660	0.024	0.024	0.026	0.029	12:59:23	10/25/2011 12:59	0.03
12720	0.019	0.019	0.021	0.024	13:00:23	10/25/2011 13:00	0.025
12780	0.025	0.026	0.028	0.038	13:01:23	10/25/2011 13:01	0.047
12840	0.025	0.026	0.028	0.034	13:02:23	10/25/2011 13:02	0.037
12900	0.031	0.033	0.037	0.048	13:03:23	10/25/2011 13:03	0.057
12960	0.018	0.019	0.02	0.024	13:04:23	10/25/2011 13:04	0.025
13020	0.02	0.021	0.022	0.027	13:05:23	10/25/2011 13:05	0.03
13080	0.03	0.032	0.037	0.052	13:06:23	10/25/2011 13:06	0.061
13140	0.026	0.028	0.031	0.046	13:07:23	10/25/2011 13:07	0.053
13200	0.02	0.021	0.023	0.031	13:08:23	10/25/2011 13:08	0.038
13260	0.017	0.017	0.018	0.022	13:09:23	10/25/2011 13:09	0.028
13320	0.027	0.028	0.031	0.046	13:10:23	10/25/2011 13:10	0.053
13380	0.027	0.028	0.031	0.045	13:11:23	10/25/2011 13:11	0.054
13440	0.03	0.031	0.034	0.052	13:12:23	10/25/2011 13:12	0.065
13500	0.02	0.021	0.023	0.031	13:13:23	10/25/2011 13:13	0.04
13560	0.024	0.025	0.027	0.043	13:14:23	10/25/2011 13:14	0.057
13620	0.02	0.02	0.022	0.03	13:15:23	10/25/2011 13:15	0.036
13680	0.043	0.045	0.051	0.087	13:16:23	10/25/2011 13:16	0.108
13740	0.026	0.028	0.031	0.05	13:17:23	10/25/2011 13:17	0.064
13800	0.028	0.029	0.033	0.054	13:18:23	10/25/2011 13:18	0.067
13860	0.034	0.035	0.04	0.064	13:19:23	10/25/2011 13:19	0.08
13920	0.043	0.045	0.051	0.079	13:20:23	10/25/2011 13:20	0.096
13980	0.046	0.049	0.055	0.093	13:21:23	10/25/2011 13:21	0.124
14040	0.026	0.027	0.031	0.046	13:22:23	10/25/2011 13:22	0.063
14100	0.039	0.041	0.046	0.077	13:23:23	10/25/2011 13:23	0.097
14160	0.032	0.034	0.038	0.062	13:24:23	10/25/2011 13:24	0.077

14220	0.034	0.035	0.039	0.062	13:25:23	10/25/2011 13:25	0.077
14280	0.058	0.06	0.065	0.11	13:26:23	10/25/2011 13:26	0.154
14340	0.036	0.037	0.041	0.064	13:27:23	10/25/2011 13:27	0.083
14400	0.02	0.02	0.022	0.029	13:28:23	10/25/2011 13:28	0.036
14460	0.023	0.024	0.026	0.036	13:29:23	10/25/2011 13:29	0.046
14520	0.029	0.03	0.034	0.053	13:30:23	10/25/2011 13:30	0.071
14580	0.05	0.052	0.06	0.104	13:31:23	10/25/2011 13:31	0.139
14640	0.191	0.198	0.219	0.348	13:32:23	10/25/2011 13:32	0.47
14700	0.019	0.02	0.023	0.03	13:33:23	10/25/2011 13:33	0.033
14760	0.025	0.026	0.029	0.036	13:34:23	10/25/2011 13:34	0.039
14820	0.023	0.024	0.027	0.035	13:35:23	10/25/2011 13:35	0.036
14880	0.022	0.023	0.026	0.036	13:36:23	10/25/2011 13:36	0.038
14940	0.101	0.111	0.133	0.192	13:37:23	10/25/2011 13:37	0.21
15000	0.019	0.02	0.022	0.026	13:38:23	10/25/2011 13:38	0.028
15060	0.019	0.02	0.022	0.028	13:39:23	10/25/2011 13:39	0.028
15120	0.039	0.041	0.047	0.065	13:40:23	10/25/2011 13:40	0.075
15180	0.021	0.022	0.025	0.032	13:41:23	10/25/2011 13:41	0.032
15240	0.021	0.023	0.026	0.035	13:42:23	10/25/2011 13:42	0.037
15300	0.031	0.032	0.036	0.046	13:43:23	10/25/2011 13:43	0.051
15360	0.088	0.095	0.112	0.155	13:44:23	10/25/2011 13:44	0.167
15420	0.04	0.043	0.053	0.078	13:45:23	10/25/2011 13:45	0.085
15480	0.023	0.025	0.029	0.039	13:46:23	10/25/2011 13:46	0.041
15540	0.034	0.036	0.042	0.053	13:47:23	10/25/2011 13:47	0.056
15600	0.025	0.027	0.033	0.047	13:48:23	10/25/2011 13:48	0.051
15660	0.022	0.023	0.026	0.031	13:49:23	10/25/2011 13:49	0.032
15720	0.023	0.024	0.027	0.033	13:50:23	10/25/2011 13:50	0.034
15780	0.045	0.047	0.051	0.059	13:51:23	10/25/2011 13:51	0.06
15840	0.018	0.019	0.022	0.028	13:52:23	10/25/2011 13:52	0.031
15900	0.016	0.017	0.018	0.022	13:53:23	10/25/2011 13:53	0.022
15960	0.024	0.025	0.027	0.031	13:54:23	10/25/2011 13:54	0.032
16020	0.45	0.453	0.462	0.525	13:55:23	10/25/2011 13:55	0.576
16080	0.265	0.266	0.27	0.299	13:56:23	10/25/2011 13:56	0.324
16140	0.019	0.02	0.021	0.024	13:57:23	10/25/2011 13:57	0.025
16200	0.027	0.03	0.034	0.044	13:58:23	10/25/2011 13:58	0.046
16260	0.028	0.03	0.034	0.043	13:59:23	10/25/2011 13:59	0.043
16320	0.047	0.048	0.049	0.053	14:00:23	10/25/2011 14:00	0.053
16380	0.017	0.017	0.019	0.021	14:01:23	10/25/2011 14:01	0.023
16440	0.018	0.018	0.02	0.023	14:02:23	10/25/2011 14:02	0.024
16500	0.016	0.017	0.019	0.022	14:03:23	10/25/2011 14:03	0.024
16560	0.017	0.018	0.02	0.025	14:04:23	10/25/2011 14:04	0.026
16620	0.015	0.016	0.017	0.02	14:05:23	10/25/2011 14:05	0.02
16680	0.021	0.022	0.025	0.032	14:06:23	10/25/2011 14:06	0.033
16740	0.016	0.017	0.018	0.021	14:07:23	10/25/2011 14:07	0.022
16800	0.032	0.033	0.034	0.039	14:08:23	10/25/2011 14:08	0.039
16860	0.025	0.026	0.027	0.031	14:09:23	10/25/2011 14:09	0.032
16920	0.057	0.062	0.076	0.11	14:10:23	10/25/2011 14:10	0.118
16980	0.019	0.02	0.021	0.028	14:11:23	10/25/2011 14:11	0.03
17040	0.034	0.035	0.039	0.054	14:12:23	10/25/2011 14:12	0.061
17100	0.015	0.016	0.018	0.026	14:13:23	10/25/2011 14:13	0.027
17160	0.011	0.012	0.014	0.019	14:14:23	10/25/2011 14:14	0.019
17220	0.014	0.014	0.016	0.019	14:15:23	10/25/2011 14:15	0.02
17280	0.02	0.022	0.024	0.027	14:16:23	10/25/2011 14:16	0.027
17340	0.014	0.014	0.016	0.018	14:17:23	10/25/2011 14:17	0.019
17400	0.022	0.023	0.025	0.031	14:18:23	10/25/2011 14:18	0.032
17460	0.027	0.028	0.031	0.039	14:19:23	10/25/2011 14:19	0.041
17520	0.021	0.023	0.026	0.032	14:20:23	10/25/2011 14:20	0.032
17580	0.015	0.016	0.017	0.02	14:21:23	10/25/2011 14:21	0.021
17640	0.022	0.024	0.027	0.034	14:22:23	10/25/2011 14:22	0.035
17700	0.018	0.019	0.02	0.024	14:23:23	10/25/2011 14:23	0.027
17760	0.016	0.017	0.019	0.023	14:24:23	10/25/2011 14:24	0.023
17820	0.016	0.017	0.018	0.022	14:25:23	10/25/2011 14:25	0.024
17880	0.015	0.016	0.017	0.019	14:26:23	10/25/2011 14:26	0.02
17940	0.014	0.015	0.016	0.018	14:27:23	10/25/2011 14:27	0.018
18000	0.015	0.016	0.017	0.02	14:28:23	10/25/2011 14:28	0.021
18060	0.019	0.02	0.022	0.026	14:29:23	10/25/2011 14:29	0.028
18120	0.028	0.03	0.034	0.046	14:30:23	10/25/2011 14:30	0.048
18180	0.028	0.03	0.037	0.052	14:31:23	10/25/2011 14:31	0.056
18240	0.024	0.026	0.031	0.045	14:32:23	10/25/2011 14:32	0.046
18300	0.018	0.02	0.022	0.027	14:33:23	10/25/2011 14:33	0.028
18360	0.018	0.019	0.022	0.027	14:34:23	10/25/2011 14:34	0.028

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_001
Test Start Time	12:11:26
Test Start Date	10/29/2011
Test Length [D:H:M]	0:05:03
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.014
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.091
PM1 TWA [mg/m3]	0.009
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.099
PM2.5 TWA [mg/m3]	0.009
PM4 Average [mg/m3]	0.015
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.12
PM4 TWA [mg/m3]	0.01
PM10 Average [mg/m3]	0.017
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	0.209
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.018
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	0.267
TOTAL TWA [mg/m3]	0.012
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	303



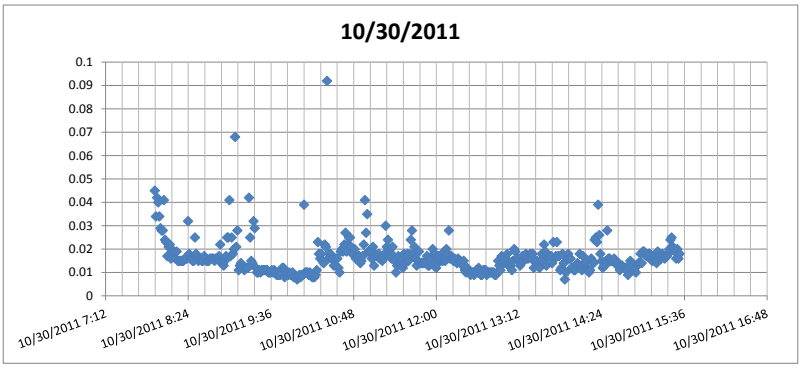
Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	12:11:26	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.011	0.011	0.011	0.015	12:12:26	10/29/2011 12:12	0.022		
120	0.008	0.008	0.008	0.009	12:13:26	10/29/2011 12:13	0.01		
180	0.01	0.01	0.01	0.01	12:14:26	10/29/2011 12:14	0.012		
240	0.008	0.008	0.008	0.008	12:15:26	10/29/2011 12:15	0.008		
300	0.008	0.008	0.008	0.008	12:16:26	10/29/2011 12:16	0.008		
360	0.008	0.008	0.008	0.009	12:17:26	10/29/2011 12:17	0.009		
420	0.009	0.009	0.009	0.009	12:18:26	10/29/2011 12:18	0.009		
480	0.008	0.008	0.008	0.008	12:19:26	10/29/2011 12:19	0.009		
540	0.01	0.01	0.01	0.011	12:20:26	10/29/2011 12:20	0.011		
600	0.008	0.008	0.008	0.008	12:21:26	10/29/2011 12:21	0.009		
660	0.008	0.008	0.008	0.008	12:22:26	10/29/2011 12:22	0.008		
720	0.007	0.007	0.007	0.008	12:23:26	10/29/2011 12:23	0.008		
780	0.008	0.008	0.009	0.009	12:24:26	10/29/2011 12:24	0.01		
840	0.01	0.01	0.011	0.011	12:25:26	10/29/2011 12:25	0.011		
900	0.01	0.01	0.01	0.01	12:26:26	10/29/2011 12:26	0.011		
960	0.008	0.008	0.009	0.009	12:27:26	10/29/2011 12:27	0.009		
1020	0.009	0.009	0.009	0.009	12:28:26	10/29/2011 12:28	0.009		
1080	0.008	0.008	0.008	0.009	12:29:26	10/29/2011 12:29	0.009		
1140	0.008	0.008	0.008	0.008	12:30:26	10/29/2011 12:30	0.008		
1200	0.009	0.009	0.009	0.01	12:31:26	10/29/2011 12:31	0.01		
1260	0.009	0.01	0.01	0.01	12:32:26	10/29/2011 12:32	0.01		
1320	0.011	0.011	0.011	0.012	12:33:26	10/29/2011 12:33	0.012		
1380	0.009	0.009	0.009	0.009	12:34:26	10/29/2011 12:34	0.009		
1440	0.01	0.01	0.01	0.01	12:35:26	10/29/2011 12:35	0.01		
1500	0.009	0.009	0.01	0.01	12:36:26	10/29/2011 12:36	0.01		
1560	0.009	0.009	0.009	0.009	12:37:26	10/29/2011 12:37	0.009		
1620	0.009	0.009	0.009	0.01	12:38:26	10/29/2011 12:38	0.01		
1680	0.008	0.008	0.008	0.008	12:39:26	10/29/2011 12:39	0.008		
1740	0.009	0.009	0.009	0.009	12:40:26	10/29/2011 12:40	0.009		
1800	0.008	0.009	0.009	0.009	12:41:26	10/29/2011 12:41	0.009		
1860	0.009	0.009	0.009	0.01	12:42:26	10/29/2011 12:42	0.01		
1920	0.01	0.01	0.01	0.012	12:43:26	10/29/2011 12:43	0.013		
1980	0.011	0.011	0.011	0.012	12:44:26	10/29/2011 12:44	0.013		
2040	0.01	0.01	0.011	0.011	12:45:26	10/29/2011 12:45	0.011		
2100	0.01	0.011	0.011	0.011	12:46:26	10/29/2011 12:46	0.011		
2160	0.012	0.012	0.012	0.012	12:47:26	10/29/2011 12:47	0.012		
2220	0.012	0.012	0.012	0.012	12:48:26	10/29/2011 12:48	0.012		
2280	0.013	0.013	0.013	0.014	12:49:26	10/29/2011 12:49	0.015		
2340	0.011	0.011	0.011	0.012	12:50:26	10/29/2011 12:50	0.012		
2400	0.012	0.012	0.012	0.012	12:51:26	10/29/2011 12:51	0.012		
2460	0.012	0.012	0.012	0.012	12:52:26	10/29/2011 12:52	0.012		
2520	0.011	0.011	0.011	0.011	12:53:26	10/29/2011 12:53	0.011		
2580	0.012	0.012	0.012	0.013	12:54:26	10/29/2011 12:54	0.013		
2640	0.015	0.015	0.015	0.016	12:55:26	10/29/2011 12:55	0.017		
2700	0.016	0.016	0.016	0.016	12:56:26	10/29/2011 12:56	0.017		
2760	0.028	0.029	0.029	0.03	12:57:26	10/29/2011 12:57	0.03		
2820	0.013	0.014	0.014	0.014	12:58:26	10/29/2011 12:58	0.014		
2880	0.013	0.014	0.014	0.014	12:59:26	10/29/2011 12:59	0.015		
2940	0.017	0.018	0.018	0.021	13:00:26	10/29/2011 13:00	0.027		
3000	0.015	0.015	0.015	0.016	13:01:26	10/29/2011 13:01	0.018		

3060	0.014	0.014	0.014	0.014	13:02:26	10/29/2011 13:02	0.014
3120	0.014	0.014	0.014	0.014	13:03:26	10/29/2011 13:03	0.014
3180	0.015	0.016	0.016	0.016	13:04:26	10/29/2011 13:04	0.017
3240	0.015	0.015	0.015	0.016	13:05:26	10/29/2011 13:05	0.016
3300	0.018	0.019	0.019	0.019	13:06:26	10/29/2011 13:06	0.019
3360	0.016	0.016	0.016	0.016	13:07:26	10/29/2011 13:07	0.016
3420	0.015	0.016	0.016	0.016	13:08:26	10/29/2011 13:08	0.016
3480	0.018	0.018	0.018	0.018	13:09:26	10/29/2011 13:09	0.019
3540	0.013	0.013	0.013	0.013	13:10:26	10/29/2011 13:10	0.013
3600	0.017	0.017	0.017	0.018	13:11:26	10/29/2011 13:11	0.018
3660	0.022	0.023	0.024	0.026	13:12:26	10/29/2011 13:12	0.028
3720	0.02	0.021	0.021	0.022	13:13:26	10/29/2011 13:13	0.025
3780	0.015	0.015	0.016	0.016	13:14:26	10/29/2011 13:14	0.017
3840	0.014	0.014	0.014	0.015	13:15:26	10/29/2011 13:15	0.015
3900	0.014	0.015	0.015	0.015	13:16:26	10/29/2011 13:16	0.016
3960	0.016	0.016	0.016	0.017	13:17:26	10/29/2011 13:17	0.017
4020	0.015	0.015	0.015	0.016	13:18:26	10/29/2011 13:18	0.017
4080	0.016	0.016	0.016	0.017	13:19:26	10/29/2011 13:19	0.018
4140	0.014	0.014	0.014	0.015	13:20:26	10/29/2011 13:20	0.016
4200	0.016	0.016	0.016	0.017	13:21:26	10/29/2011 13:21	0.017
4260	0.015	0.016	0.016	0.017	13:22:26	10/29/2011 13:22	0.017
4320	0.014	0.015	0.015	0.015	13:23:26	10/29/2011 13:23	0.015
4380	0.014	0.014	0.014	0.015	13:24:26	10/29/2011 13:24	0.016
4440	0.012	0.013	0.013	0.013	13:25:26	10/29/2011 13:25	0.013
4500	0.012	0.013	0.013	0.013	13:26:26	10/29/2011 13:26	0.013
4560	0.017	0.017	0.017	0.018	13:27:26	10/29/2011 13:27	0.019
4620	0.014	0.014	0.015	0.016	13:28:26	10/29/2011 13:28	0.017
4680	0.015	0.015	0.015	0.016	13:29:26	10/29/2011 13:29	0.016
4740	0.016	0.016	0.016	0.017	13:30:26	10/29/2011 13:30	0.018
4800	0.014	0.014	0.014	0.014	13:31:26	10/29/2011 13:31	0.014
4860	0.014	0.014	0.014	0.015	13:32:26	10/29/2011 13:32	0.015
4920	0.017	0.017	0.017	0.018	13:33:26	10/29/2011 13:33	0.018
4980	0.016	0.017	0.017	0.017	13:34:26	10/29/2011 13:34	0.018
5040	0.017	0.018	0.018	0.019	13:35:26	10/29/2011 13:35	0.021
5100	0.023	0.023	0.023	0.024	13:36:26	10/29/2011 13:36	0.024
5160	0.021	0.021	0.021	0.023	13:37:26	10/29/2011 13:37	0.024
5220	0.035	0.036	0.037	0.049	13:38:26	10/29/2011 13:38	0.067
5280	0.024	0.025	0.026	0.03	13:39:26	10/29/2011 13:39	0.036
5340	0.017	0.018	0.018	0.019	13:40:26	10/29/2011 13:40	0.021
5400	0.014	0.014	0.014	0.015	13:41:26	10/29/2011 13:41	0.016
5460	0.015	0.015	0.015	0.016	13:42:26	10/29/2011 13:42	0.017
5520	0.015	0.015	0.016	0.016	13:43:26	10/29/2011 13:43	0.016
5580	0.015	0.015	0.016	0.016	13:44:26	10/29/2011 13:44	0.016
5640	0.014	0.015	0.015	0.016	13:45:26	10/29/2011 13:45	0.016
5700	0.019	0.019	0.02	0.022	13:46:26	10/29/2011 13:46	0.024
5760	0.047	0.049	0.055	0.096	13:47:26	10/29/2011 13:47	0.127
5820	0.016	0.016	0.017	0.019	13:48:26	10/29/2011 13:48	0.022
5880	0.015	0.015	0.015	0.017	13:49:26	10/29/2011 13:49	0.017
5940	0.017	0.017	0.017	0.018	13:50:26	10/29/2011 13:50	0.02
6000	0.014	0.014	0.014	0.016	13:51:26	10/29/2011 13:51	0.016
6060	0.016	0.016	0.016	0.018	13:52:26	10/29/2011 13:52	0.019
6120	0.013	0.014	0.014	0.015	13:53:26	10/29/2011 13:53	0.015
6180	0.013	0.013	0.014	0.014	13:54:26	10/29/2011 13:54	0.014
6240	0.013	0.013	0.013	0.014	13:55:26	10/29/2011 13:55	0.014
6300	0.013	0.013	0.013	0.015	13:56:26	10/29/2011 13:56	0.016
6360	0.013	0.013	0.014	0.015	13:57:26	10/29/2011 13:57	0.016
6420	0.012	0.012	0.012	0.014	13:58:26	10/29/2011 13:58	0.016
6480	0.015	0.015	0.016	0.019	13:59:26	10/29/2011 13:59	0.026
6540	0.012	0.013	0.013	0.014	14:00:26	10/29/2011 14:00	0.015
6600	0.012	0.012	0.012	0.013	14:01:26	10/29/2011 14:01	0.014
6660	0.012	0.012	0.012	0.013	14:02:26	10/29/2011 14:02	0.013
6720	0.016	0.016	0.016	0.019	14:03:26	10/29/2011 14:03	0.021
6780	0.011	0.012	0.012	0.013	14:04:26	10/29/2011 14:04	0.013
6840	0.015	0.015	0.016	0.019	14:05:26	10/29/2011 14:05	0.024
6900	0.014	0.014	0.015	0.018	14:06:26	10/29/2011 14:06	0.021
6960	0.011	0.011	0.011	0.012	14:07:26	10/29/2011 14:07	0.014
7020	0.011	0.011	0.011	0.012	14:08:26	10/29/2011 14:08	0.012
7080	0.012	0.012	0.012	0.013	14:09:26	10/29/2011 14:09	0.014
7140	0.01	0.01	0.011	0.012	14:10:26	10/29/2011 14:10	0.013
7200	0.012	0.012	0.013	0.015	14:11:26	10/29/2011 14:11	0.018
7260	0.012	0.012	0.012	0.014	14:12:26	10/29/2011 14:12	0.016
7320	0.011	0.011	0.012	0.014	14:13:26	10/29/2011 14:13	0.015
7380	0.011	0.011	0.012	0.014	14:14:26	10/29/2011 14:14	0.016
7440	0.011	0.011	0.011	0.012	14:15:26	10/29/2011 14:15	0.014
7500	0.016	0.017	0.017	0.02	14:16:26	10/29/2011 14:16	0.027
7560	0.015	0.015	0.016	0.019	14:17:26	10/29/2011 14:17	0.022
7620	0.014	0.014	0.014	0.016	14:18:26	10/29/2011 14:18	0.017
7680	0.012	0.013	0.013	0.015	14:19:26	10/29/2011 14:19	0.016
7740	0.01	0.011	0.011	0.011	14:20:26	10/29/2011 14:20	0.013
7800	0.012	0.012	0.012	0.013	14:21:26	10/29/2011 14:21	0.014
7860	0.011	0.011	0.012	0.012	14:22:26	10/29/2011 14:22	0.013
7920	0.01	0.011	0.011	0.012	14:23:26	10/29/2011 14:23	0.014
7980	0.012	0.012	0.012	0.013	14:24:26	10/29/2011 14:24	0.014
8040	0.012	0.012	0.012	0.014	14:25:26	10/29/2011 14:25	0.016
8100	0.028	0.03	0.034	0.054	14:26:26	10/29/2011 14:26	0.069
8160	0.012	0.013	0.013	0.016	14:27:26	10/29/2011 14:27	0.016
8220	0.011	0.012	0.012	0.013	14:28:26	10/29/2011 14:28	0.013

8280	0.012	0.012	0.012	0.014	14:29:26	10/29/2011 14:29	0.015
8340	0.012	0.013	0.013	0.015	14:30:26	10/29/2011 14:30	0.015
8400	0.014	0.014	0.015	0.016	14:31:26	10/29/2011 14:31	0.017
8460	0.012	0.012	0.013	0.014	14:32:26	10/29/2011 14:32	0.014
8520	0.014	0.015	0.015	0.018	14:33:26	10/29/2011 14:33	0.022
8580	0.013	0.013	0.014	0.015	14:34:26	10/29/2011 14:34	0.016
8640	0.014	0.014	0.015	0.017	14:35:26	10/29/2011 14:35	0.017
8700	0.018	0.019	0.02	0.023	14:36:26	10/29/2011 14:36	0.027
8760	0.014	0.015	0.015	0.018	14:37:26	10/29/2011 14:37	0.019
8820	0.014	0.014	0.014	0.017	14:38:26	10/29/2011 14:38	0.02
8880	0.014	0.015	0.015	0.019	14:39:26	10/29/2011 14:39	0.021
8940	0.012	0.012	0.013	0.014	14:40:26	10/29/2011 14:40	0.016
9000	0.013	0.014	0.014	0.016	14:41:26	10/29/2011 14:41	0.017
9060	0.012	0.012	0.013	0.015	14:42:26	10/29/2011 14:42	0.016
9120	0.015	0.016	0.017	0.02	14:43:26	10/29/2011 14:43	0.023
9180	0.013	0.014	0.015	0.019	14:44:26	10/29/2011 14:44	0.022
9240	0.016	0.016	0.017	0.021	14:45:26	10/29/2011 14:45	0.024
9300	0.015	0.016	0.017	0.019	14:46:26	10/29/2011 14:46	0.023
9360	0.012	0.013	0.013	0.015	14:47:26	10/29/2011 14:47	0.017
9420	0.014	0.014	0.014	0.016	14:48:26	10/29/2011 14:48	0.016
9480	0.019	0.019	0.021	0.028	14:49:26	10/29/2011 14:49	0.035
9540	0.011	0.011	0.012	0.013	14:50:26	10/29/2011 14:50	0.013
9600	0.011	0.012	0.012	0.014	14:51:26	10/29/2011 14:51	0.015
9660	0.017	0.017	0.018	0.024	14:52:26	10/29/2011 14:52	0.029
9720	0.017	0.017	0.018	0.021	14:53:26	10/29/2011 14:53	0.023
9780	0.011	0.012	0.012	0.014	14:54:26	10/29/2011 14:54	0.014
9840	0.013	0.013	0.013	0.015	14:55:26	10/29/2011 14:55	0.017
9900	0.013	0.013	0.013	0.014	14:56:26	10/29/2011 14:56	0.015
9960	0.016	0.016	0.017	0.021	14:57:26	10/29/2011 14:57	0.021
10020	0.091	0.099	0.12	0.209	14:58:26	10/29/2011 14:58	0.267
10080	0.019	0.019	0.021	0.027	14:59:26	10/29/2011 14:59	0.031
10140	0.026	0.027	0.03	0.042	15:00:26	10/29/2011 15:00	0.051
10200	0.055	0.059	0.07	0.114	15:01:26	10/29/2011 15:01	0.139
10260	0.02	0.021	0.023	0.033	15:02:26	10/29/2011 15:02	0.042
10320	0.014	0.014	0.015	0.018	15:03:26	10/29/2011 15:03	0.02
10380	0.012	0.012	0.013	0.014	15:04:26	10/29/2011 15:04	0.016
10440	0.013	0.014	0.014	0.016	15:05:26	10/29/2011 15:05	0.017
10500	0.013	0.014	0.015	0.018	15:06:26	10/29/2011 15:06	0.02
10560	0.012	0.013	0.013	0.016	15:07:26	10/29/2011 15:07	0.018
10620	0.013	0.013	0.014	0.017	15:08:26	10/29/2011 15:08	0.019
10680	0.012	0.013	0.013	0.015	15:09:26	10/29/2011 15:09	0.017
10740	0.013	0.014	0.014	0.016	15:10:26	10/29/2011 15:10	0.016
10800	0.012	0.013	0.013	0.014	15:11:26	10/29/2011 15:11	0.015
10860	0.014	0.014	0.014	0.015	15:12:26	10/29/2011 15:12	0.016
10920	0.013	0.013	0.014	0.014	15:13:26	10/29/2011 15:13	0.014
10980	0.012	0.013	0.013	0.014	15:14:26	10/29/2011 15:14	0.014
11040	0.013	0.013	0.014	0.014	15:15:26	10/29/2011 15:15	0.014
11100	0.014	0.014	0.014	0.015	15:16:26	10/29/2011 15:16	0.015
11160	0.015	0.015	0.015	0.015	15:17:26	10/29/2011 15:17	0.016
11220	0.015	0.015	0.016	0.016	15:18:26	10/29/2011 15:18	0.017
11280	0.015	0.015	0.015	0.016	15:19:26	10/29/2011 15:19	0.017
11340	0.016	0.016	0.017	0.017	15:20:26	10/29/2011 15:20	0.018
11400	0.015	0.016	0.016	0.016	15:21:26	10/29/2011 15:21	0.017
11460	0.016	0.016	0.016	0.017	15:22:26	10/29/2011 15:22	0.017
11520	0.015	0.015	0.016	0.016	15:23:26	10/29/2011 15:23	0.016
11580	0.015	0.016	0.016	0.016	15:24:26	10/29/2011 15:24	0.016
11640	0.014	0.015	0.015	0.015	15:25:26	10/29/2011 15:25	0.016
11700	0.015	0.015	0.016	0.016	15:26:26	10/29/2011 15:26	0.017
11760	0.015	0.015	0.015	0.016	15:27:26	10/29/2011 15:27	0.017
11820	0.016	0.016	0.016	0.018	15:28:26	10/29/2011 15:28	0.018
11880	0.015	0.016	0.016	0.017	15:29:26	10/29/2011 15:29	0.017
11940	0.015	0.016	0.016	0.017	15:30:26	10/29/2011 15:30	0.017
12000	0.018	0.018	0.018	0.019	15:31:26	10/29/2011 15:31	0.019
12060	0.017	0.018	0.018	0.018	15:32:26	10/29/2011 15:32	0.019
12120	0.017	0.017	0.017	0.019	15:33:26	10/29/2011 15:33	0.019
12180	0.017	0.017	0.017	0.017	15:34:26	10/29/2011 15:34	0.017
12240	0.018	0.018	0.018	0.019	15:35:26	10/29/2011 15:35	0.02
12300	0.018	0.018	0.019	0.019	15:36:26	10/29/2011 15:36	0.02
12360	0.017	0.017	0.018	0.018	15:37:26	10/29/2011 15:37	0.019
12420	0.019	0.019	0.019	0.02	15:38:26	10/29/2011 15:38	0.021
12480	0.018	0.018	0.018	0.019	15:39:26	10/29/2011 15:39	0.02
12540	0.017	0.017	0.018	0.018	15:40:26	10/29/2011 15:40	0.018
12600	0.017	0.018	0.018	0.019	15:41:26	10/29/2011 15:41	0.019
12660	0.018	0.018	0.018	0.019	15:42:26	10/29/2011 15:42	0.019
12720	0.019	0.019	0.02	0.021	15:43:26	10/29/2011 15:43	0.021
12780	0.019	0.019	0.02	0.02	15:44:26	10/29/2011 15:44	0.022
12840	0.017	0.017	0.017	0.018	15:45:26	10/29/2011 15:45	0.019
12900	0.016	0.016	0.017	0.018	15:46:26	10/29/2011 15:46	0.018
12960	0.017	0.017	0.017	0.018	15:47:26	10/29/2011 15:47	0.018
13020	0.018	0.018	0.019	0.02	15:48:26	10/29/2011 15:48	0.02
13080	0.017	0.018	0.018	0.019	15:49:26	10/29/2011 15:49	0.02
13140	0.018	0.018	0.018	0.019	15:50:26	10/29/2011 15:50	0.019
13200	0.017	0.017	0.017	0.019	15:51:26	10/29/2011 15:51	0.019
13260	0.017	0.017	0.017	0.018	15:52:26	10/29/2011 15:52	0.018
13320	0.018	0.018	0.018	0.019	15:53:26	10/29/2011 15:53	0.02
13380	0.017	0.017	0.018	0.018	15:54:26	10/29/2011 15:54	0.019
13440	0.017	0.017	0.017	0.018	15:55:26	10/29/2011 15:55	0.02

13500	0.026	0.026	0.026	0.027	15:56:26	10/29/2011 15:56	0.027
13560	0.017	0.018	0.018	0.019	15:57:26	10/29/2011 15:57	0.019
13620	0.017	0.018	0.018	0.018	15:58:26	10/29/2011 15:58	0.018
13680	0.018	0.018	0.018	0.019	15:59:26	10/29/2011 15:59	0.019
13740	0.018	0.018	0.018	0.019	16:00:26	10/29/2011 16:00	0.019
13800	0.017	0.017	0.017	0.018	16:01:26	10/29/2011 16:01	0.018
13860	0.016	0.017	0.017	0.017	16:02:26	10/29/2011 16:02	0.018
13920	0.016	0.017	0.017	0.018	16:03:26	10/29/2011 16:03	0.019
13980	0.017	0.018	0.018	0.019	16:04:26	10/29/2011 16:04	0.019
14040	0.015	0.016	0.016	0.017	16:05:26	10/29/2011 16:05	0.018
14100	0.016	0.016	0.016	0.017	16:06:26	10/29/2011 16:06	0.017
14160	0.015	0.016	0.016	0.017	16:07:26	10/29/2011 16:07	0.017
14220	0.015	0.015	0.015	0.015	16:08:26	10/29/2011 16:08	0.016
14280	0.015	0.015	0.015	0.016	16:09:26	10/29/2011 16:09	0.016
14340	0.015	0.016	0.016	0.016	16:10:26	10/29/2011 16:10	0.016
14400	0.016	0.017	0.017	0.017	16:11:26	10/29/2011 16:11	0.018
14460	0.015	0.016	0.016	0.017	16:12:26	10/29/2011 16:12	0.017
14520	0.018	0.018	0.018	0.019	16:13:26	10/29/2011 16:13	0.019
14580	0.015	0.015	0.015	0.016	16:14:26	10/29/2011 16:14	0.017
14640	0.014	0.015	0.015	0.015	16:15:26	10/29/2011 16:15	0.016
14700	0.014	0.014	0.015	0.015	16:16:26	10/29/2011 16:16	0.015
14760	0.014	0.014	0.014	0.015	16:17:26	10/29/2011 16:17	0.017
14820	0.014	0.014	0.015	0.016	16:18:26	10/29/2011 16:18	0.017
14880	0.015	0.015	0.015	0.017	16:19:26	10/29/2011 16:19	0.018
14940	0.014	0.014	0.015	0.015	16:20:26	10/29/2011 16:20	0.016
15000	0.013	0.013	0.014	0.014	16:21:26	10/29/2011 16:21	0.016
15060	0.013	0.013	0.013	0.014	16:22:26	10/29/2011 16:22	0.014
15120	0.013	0.014	0.014	0.015	16:23:26	10/29/2011 16:23	0.015
15180	0.013	0.013	0.013	0.014	16:24:26	10/29/2011 16:24	0.014
15240	0.012	0.013	0.013	0.014	16:25:26	10/29/2011 16:25	0.014
15300	0.012	0.012	0.012	0.013	16:26:26	10/29/2011 16:26	0.014
15360	0.011	0.012	0.012	0.012	16:27:26	10/29/2011 16:27	0.012
15420	0.012	0.012	0.013	0.013	16:28:26	10/29/2011 16:28	0.014
15480	0.012	0.012	0.012	0.013	16:29:26	10/29/2011 16:29	0.013
15540	0.012	0.012	0.013	0.014	16:30:26	10/29/2011 16:30	0.014
15600	0.013	0.013	0.013	0.014	16:31:26	10/29/2011 16:31	0.015
15660	0.013	0.013	0.013	0.014	16:32:26	10/29/2011 16:32	0.015
15720	0.012	0.012	0.013	0.014	16:33:26	10/29/2011 16:33	0.015
15780	0.012	0.012	0.012	0.013	16:34:26	10/29/2011 16:34	0.013
15840	0.013	0.014	0.014	0.015	16:35:26	10/29/2011 16:35	0.016
15900	0.012	0.012	0.012	0.014	16:36:26	10/29/2011 16:36	0.014
15960	0.016	0.016	0.017	0.017	16:37:26	10/29/2011 16:37	0.017
16020	0.013	0.013	0.013	0.015	16:38:26	10/29/2011 16:38	0.015
16080	0.012	0.013	0.013	0.013	16:39:26	10/29/2011 16:39	0.013
16140	0.013	0.013	0.013	0.014	16:40:26	10/29/2011 16:40	0.014
16200	0.012	0.012	0.012	0.013	16:41:26	10/29/2011 16:41	0.013
16260	0.011	0.011	0.011	0.012	16:42:26	10/29/2011 16:42	0.012
16320	0.013	0.013	0.013	0.015	16:43:26	10/29/2011 16:43	0.015
16380	0.012	0.012	0.012	0.014	16:44:26	10/29/2011 16:44	0.014
16440	0.011	0.012	0.012	0.013	16:45:26	10/29/2011 16:45	0.013
16500	0.011	0.011	0.011	0.012	16:46:26	10/29/2011 16:46	0.012
16560	0.01	0.011	0.011	0.011	16:47:26	10/29/2011 16:47	0.011
16620	0.012	0.012	0.013	0.013	16:48:26	10/29/2011 16:48	0.013
16680	0.011	0.011	0.012	0.012	16:49:26	10/29/2011 16:49	0.012
16740	0.015	0.015	0.015	0.016	16:50:26	10/29/2011 16:50	0.017
16800	0.016	0.016	0.017	0.018	16:51:26	10/29/2011 16:51	0.02
16860	0.013	0.013	0.013	0.014	16:52:26	10/29/2011 16:52	0.015
16920	0.012	0.013	0.013	0.014	16:53:26	10/29/2011 16:53	0.014
16980	0.012	0.012	0.013	0.013	16:54:26	10/29/2011 16:54	0.013
17040	0.013	0.013	0.013	0.014	16:55:26	10/29/2011 16:55	0.015
17100	0.017	0.017	0.018	0.018	16:56:26	10/29/2011 16:56	0.018
17160	0.013	0.013	0.013	0.014	16:57:26	10/29/2011 16:57	0.015
17220	0.012	0.012	0.013	0.013	16:58:26	10/29/2011 16:58	0.013
17280	0.015	0.015	0.015	0.016	16:59:26	10/29/2011 16:59	0.017
17340	0.019	0.019	0.02	0.02	17:00:26	10/29/2011 17:00	0.021
17400	0.013	0.013	0.014	0.015	17:01:26	10/29/2011 17:01	0.015
17460	0.012	0.012	0.012	0.014	17:02:26	10/29/2011 17:02	0.015
17520	0.012	0.012	0.012	0.013	17:03:26	10/29/2011 17:03	0.013
17580	0.012	0.012	0.012	0.013	17:04:26	10/29/2011 17:04	0.014
17640	0.013	0.013	0.013	0.014	17:05:26	10/29/2011 17:05	0.015
17700	0.015	0.015	0.015	0.017	17:06:26	10/29/2011 17:06	0.018
17760	0.014	0.014	0.014	0.015	17:07:26	10/29/2011 17:07	0.016
17820	0.014	0.015	0.015	0.016	17:08:26	10/29/2011 17:08	0.016
17880	0.014	0.014	0.015	0.015	17:09:26	10/29/2011 17:09	0.016
17940	0.014	0.014	0.014	0.015	17:10:26	10/29/2011 17:10	0.015
18000	0.011	0.012	0.012	0.013	17:11:26	10/29/2011 17:11	0.013
18060	0.012	0.012	0.012	0.013	17:12:26	10/29/2011 17:12	0.013
18120	0.017	0.017	0.017	0.018	17:13:26	10/29/2011 17:13	0.019
18180	0.013	0.014	0.014	0.015	17:14:26	10/29/2011 17:14	0.016

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	2.8
Calibration Date	7/18/2011
Test Name	MANUAL_002
Test Start Time	7:53:49
Test Start Date	10/30/2011
Test Length [D:H:M]	0:07:38
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.014
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.076
PM1 TWA [mg/m3]	0.014
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.076
PM2.5 TWA [mg/m3]	0.014
PM4 Average [mg/m3]	0.015
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.077
PM4 TWA [mg/m3]	0.014
PM10 Average [mg/m3]	0.016
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.082
PM10 TWA [mg/m3]	0.015
TOTAL Average [mg/m3]	0.016
TOTAL Minimum [mg/m3]	0.007
TOTAL Maximum [mg/m3]	0.092
TOTAL TWA [mg/m3]	0.016
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	458



Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	7:53:49	Time/Date	TOTAL [mg/m3]	Alarms	Errors
60	0.039	0.04	0.04	0.042	7:54:49	10/30/2011 7:54	0.045		
120	0.033	0.034	0.034	0.034	7:55:49	10/30/2011 7:55	0.034		
180	0.04	0.041	0.041	0.041	7:56:49	10/30/2011 7:56	0.042		
240	0.039	0.039	0.039	0.04	7:57:49	10/30/2011 7:57	0.04		
300	0.033	0.033	0.033	0.034	7:58:49	10/30/2011 7:58	0.034		
360	0.027	0.028	0.028	0.029	7:59:49	10/30/2011 7:59	0.029		
420	0.027	0.027	0.027	0.028	8:00:49	10/30/2011 8:00	0.028		
480	0.027	0.027	0.028	0.028	8:01:49	10/30/2011 8:01	0.028		
540	0.036	0.036	0.036	0.038	8:02:49	10/30/2011 8:02	0.041		
600	0.023	0.023	0.023	0.023	8:03:49	10/30/2011 8:03	0.024		
660	0.022	0.022	0.023	0.023	8:04:49	10/30/2011 8:04	0.023		
720	0.016	0.017	0.017	0.017	8:05:49	10/30/2011 8:05	0.017		
780	0.02	0.02	0.021	0.021	8:06:49	10/30/2011 8:06	0.021		
840	0.021	0.021	0.022	0.022	8:07:49	10/30/2011 8:07	0.022		
900	0.016	0.016	0.016	0.016	8:08:49	10/30/2011 8:08	0.016		
960	0.018	0.018	0.018	0.019	8:09:49	10/30/2011 8:09	0.019		
1020	0.018	0.018	0.018	0.019	8:10:49	10/30/2011 8:10	0.019		
1080	0.018	0.018	0.019	0.019	8:11:49	10/30/2011 8:11	0.019		
1140	0.016	0.016	0.016	0.016	8:12:49	10/30/2011 8:12	0.016		
1200	0.018	0.018	0.018	0.019	8:13:49	10/30/2011 8:13	0.019		
1260	0.015	0.015	0.015	0.015	8:14:49	10/30/2011 8:14	0.015		
1320	0.015	0.015	0.015	0.015	8:15:49	10/30/2011 8:15	0.015		
1380	0.014	0.015	0.015	0.015	8:16:49	10/30/2011 8:16	0.015		
1440	0.015	0.015	0.015	0.015	8:17:49	10/30/2011 8:17	0.015		
1500	0.014	0.015	0.015	0.015	8:18:49	10/30/2011 8:18	0.015		
1560	0.014	0.015	0.015	0.015	8:19:49	10/30/2011 8:19	0.015		
1620	0.015	0.015	0.015	0.016	8:20:49	10/30/2011 8:20	0.016		
1680	0.015	0.015	0.015	0.016	8:21:49	10/30/2011 8:21	0.016		
1740	0.015	0.015	0.015	0.016	8:22:49	10/30/2011 8:22	0.016		
1800	0.022	0.023	0.025	0.031	8:23:49	10/30/2011 8:23	0.032		
1860	0.018	0.018	0.018	0.018	8:24:49	10/30/2011 8:24	0.018		
1920	0.016	0.016	0.016	0.016	8:25:49	10/30/2011 8:25	0.016		
1980	0.015	0.015	0.015	0.016	8:26:49	10/30/2011 8:26	0.016		
2040	0.015	0.015	0.015	0.015	8:27:49	10/30/2011 8:27	0.015		
2100	0.015	0.015	0.015	0.015	8:28:49	10/30/2011 8:28	0.015		
2160	0.025	0.025	0.025	0.025	8:29:49	10/30/2011 8:29	0.025		
2220	0.017	0.018	0.018	0.018	8:30:49	10/30/2011 8:30	0.018		
2280	0.015	0.015	0.015	0.016	8:31:49	10/30/2011 8:31	0.016		
2340	0.015	0.015	0.015	0.015	8:32:49	10/30/2011 8:32	0.015		
2400	0.015	0.015	0.015	0.016	8:33:49	10/30/2011 8:33	0.016		
2460	0.016	0.016	0.016	0.016	8:34:49	10/30/2011 8:34	0.016		
2520	0.015	0.015	0.015	0.015	8:35:49	10/30/2011 8:35	0.015		
2580	0.015	0.015	0.015	0.015	8:36:49	10/30/2011 8:36	0.015		
2640	0.015	0.016	0.016	0.017	8:37:49	10/30/2011 8:37	0.017		
2700	0.015	0.015	0.015	0.015	8:38:49	10/30/2011 8:38	0.016		
2760	0.014	0.014	0.014	0.014	8:39:49	10/30/2011 8:39	0.015		
2820	0.014	0.014	0.014	0.015	8:40:49	10/30/2011 8:40	0.015		
2880	0.015	0.015	0.015	0.015	8:41:49	10/30/2011 8:41	0.015		
2940	0.015	0.015	0.015	0.016	8:42:49	10/30/2011 8:42	0.016		
3000	0.015	0.015	0.015	0.016	8:43:49	10/30/2011 8:43	0.016		
3060	0.014	0.014	0.015	0.015	8:44:49	10/30/2011 8:44	0.016		
3120	0.015	0.015	0.015	0.015	8:45:49	10/30/2011 8:45	0.016		
3180	0.015	0.015	0.015	0.015	8:46:49	10/30/2011 8:46	0.015		
3240	0.015	0.015	0.015	0.015	8:47:49	10/30/2011 8:47	0.016		

3300	0.015	0.015	0.015	0.016	8:48:49	10/30/2011 8:48	0.016
3360	0.015	0.015	0.015	0.016	8:49:49	10/30/2011 8:49	0.016
3420	0.015	0.015	0.016	0.017	8:50:49	10/30/2011 8:50	0.017
3480	0.021	0.021	0.021	0.022	8:51:49	10/30/2011 8:51	0.022
3540	0.014	0.014	0.014	0.014	8:52:49	10/30/2011 8:52	0.014
3600	0.013	0.013	0.014	0.014	8:53:49	10/30/2011 8:53	0.014
3660	0.013	0.013	0.013	0.013	8:54:49	10/30/2011 8:54	0.013
3720	0.014	0.014	0.014	0.015	8:55:49	10/30/2011 8:55	0.015
3780	0.014	0.015	0.015	0.017	8:56:49	10/30/2011 8:56	0.017
3840	0.02	0.021	0.022	0.025	8:57:49	10/30/2011 8:57	0.025
3900	0.022	0.022	0.023	0.025	8:58:49	10/30/2011 8:58	0.025
3960	0.029	0.03	0.033	0.04	8:59:49	10/30/2011 8:59	0.041
4020	0.015	0.016	0.016	0.017	9:00:49	10/30/2011 9:00	0.017
4080	0.025	0.025	0.025	0.025	9:01:49	10/30/2011 9:01	0.025
4140	0.017	0.018	0.018	0.018	9:02:49	10/30/2011 9:02	0.018
4200	0.019	0.019	0.02	0.02	9:03:49	10/30/2011 9:03	0.02
4260	0.046	0.048	0.053	0.067	9:04:49	10/30/2011 9:04	0.068
4320	0.018	0.018	0.019	0.021	9:05:49	10/30/2011 9:05	0.021
4380	0.017	0.018	0.02	0.027	9:06:49	10/30/2011 9:06	0.028
4440	0.011	0.011	0.011	0.011	9:07:49	10/30/2011 9:07	0.011
4500	0.012	0.013	0.013	0.013	9:08:49	10/30/2011 9:08	0.013
4560	0.013	0.013	0.014	0.014	9:09:49	10/30/2011 9:09	0.014
4620	0.011	0.011	0.012	0.012	9:10:49	10/30/2011 9:10	0.012
4680	0.011	0.011	0.012	0.012	9:11:49	10/30/2011 9:11	0.012
4740	0.01	0.011	0.011	0.011	9:12:49	10/30/2011 9:12	0.011
4800	0.011	0.011	0.012	0.012	9:13:49	10/30/2011 9:13	0.012
4860	0.012	0.012	0.012	0.012	9:14:49	10/30/2011 9:14	0.012
4920	0.012	0.012	0.012	0.012	9:15:49	10/30/2011 9:15	0.012
4980	0.042	0.042	0.042	0.042	9:16:49	10/30/2011 9:16	0.042
5040	0.023	0.024	0.024	0.025	9:17:49	10/30/2011 9:17	0.025
5100	0.014	0.014	0.014	0.015	9:18:49	10/30/2011 9:18	0.015
5160	0.013	0.013	0.013	0.014	9:19:49	10/30/2011 9:19	0.014
5220	0.032	0.032	0.032	0.032	9:20:49	10/30/2011 9:20	0.032
5280	0.028	0.029	0.029	0.029	9:21:49	10/30/2011 9:21	0.029
5340	0.012	0.012	0.012	0.012	9:22:49	10/30/2011 9:22	0.012
5400	0.01	0.01	0.01	0.01	9:23:49	10/30/2011 9:23	0.01
5460	0.01	0.01	0.01	0.01	9:24:49	10/30/2011 9:24	0.01
5520	0.01	0.01	0.01	0.011	9:25:49	10/30/2011 9:25	0.011
5580	0.01	0.01	0.01	0.01	9:26:49	10/30/2011 9:26	0.01
5640	0.01	0.01	0.011	0.011	9:27:49	10/30/2011 9:27	0.011
5700	0.01	0.01	0.01	0.011	9:28:49	10/30/2011 9:28	0.011
5760	0.01	0.011	0.011	0.011	9:29:49	10/30/2011 9:29	0.011
5820	0.011	0.011	0.011	0.011	9:30:49	10/30/2011 9:30	0.011
5880	0.01	0.01	0.011	0.011	9:31:49	10/30/2011 9:31	0.011
5940	0.01	0.01	0.01	0.011	9:32:49	10/30/2011 9:32	0.011
6000	0.01	0.01	0.01	0.01	9:33:49	10/30/2011 9:33	0.01
6060	0.01	0.01	0.01	0.01	9:34:49	10/30/2011 9:34	0.01
6120	0.01	0.01	0.01	0.01	9:35:49	10/30/2011 9:35	0.01
6180	0.01	0.01	0.01	0.011	9:36:49	10/30/2011 9:36	0.011
6240	0.01	0.01	0.01	0.01	9:37:49	10/30/2011 9:37	0.01
6300	0.01	0.01	0.01	0.011	9:38:49	10/30/2011 9:38	0.011
6360	0.009	0.009	0.01	0.01	9:39:49	10/30/2011 9:39	0.01
6420	0.009	0.009	0.009	0.009	9:40:49	10/30/2011 9:40	0.009
6480	0.009	0.009	0.009	0.009	9:41:49	10/30/2011 9:41	0.009
6540	0.008	0.009	0.009	0.009	9:42:49	10/30/2011 9:42	0.009
6600	0.008	0.009	0.009	0.009	9:43:49	10/30/2011 9:43	0.009
6660	0.01	0.01	0.01	0.01	9:44:49	10/30/2011 9:44	0.01
6720	0.011	0.011	0.011	0.011	9:45:49	10/30/2011 9:45	0.012
6780	0.009	0.009	0.009	0.01	9:46:49	10/30/2011 9:46	0.012
6840	0.008	0.008	0.008	0.008	9:47:49	10/30/2011 9:47	0.008
6900	0.008	0.009	0.009	0.009	9:48:49	10/30/2011 9:48	0.009
6960	0.009	0.009	0.009	0.009	9:49:49	10/30/2011 9:49	0.009
7020	0.009	0.009	0.009	0.009	9:50:49	10/30/2011 9:50	0.009
7080	0.009	0.009	0.009	0.01	9:51:49	10/30/2011 9:51	0.01
7140	0.008	0.009	0.009	0.009	9:52:49	10/30/2011 9:52	0.009
7200	0.009	0.009	0.009	0.009	9:53:49	10/30/2011 9:53	0.009
7260	0.009	0.009	0.009	0.01	9:54:49	10/30/2011 9:54	0.01
7320	0.008	0.008	0.008	0.008	9:55:49	10/30/2011 9:55	0.008
7380	0.007	0.007	0.008	0.008	9:56:49	10/30/2011 9:56	0.008
7440	0.008	0.008	0.008	0.008	9:57:49	10/30/2011 9:57	0.008
7500	0.007	0.007	0.007	0.007	9:58:49	10/30/2011 9:58	0.007
7560	0.007	0.007	0.007	0.008	9:59:49	10/30/2011 9:59	0.008
7620	0.008	0.008	0.008	0.008	10:00:49	10/30/2011 10:00	0.009
7680	0.008	0.008	0.008	0.008	10:01:49	10/30/2011 10:01	0.008
7740	0.008	0.008	0.008	0.009	10:02:49	10/30/2011 10:02	0.009
7800	0.008	0.008	0.008	0.009	10:03:49	10/30/2011 10:03	0.009
7860	0.038	0.038	0.038	0.038	10:04:49	10/30/2011 10:04	0.039
7920	0.009	0.009	0.01	0.01	10:05:49	10/30/2011 10:05	0.01
7980	0.009	0.009	0.01	0.01	10:06:49	10/30/2011 10:06	0.01
8040	0.009	0.009	0.009	0.01	10:07:49	10/30/2011 10:07	0.01
8100	0.008	0.008	0.008	0.008	10:08:49	10/30/2011 10:08	0.009
8160	0.008	0.008	0.008	0.009	10:09:49	10/30/2011 10:09	0.01
8220	0.007	0.007	0.007	0.008	10:10:49	10/30/2011 10:10	0.009
8280	0.007	0.007	0.007	0.008	10:11:49	10/30/2011 10:11	0.008
8340	0.008	0.008	0.008	0.008	10:12:49	10/30/2011 10:12	0.008
8400	0.008	0.008	0.008	0.008	10:13:49	10/30/2011 10:13	0.008
8460	0.009	0.009	0.009	0.009	10:14:49	10/30/2011 10:14	0.009
8520	0.01	0.011	0.011	0.011	10:15:49	10/30/2011 10:15	0.011
8580	0.021	0.021	0.022	0.023	10:16:49	10/30/2011 10:16	0.023
8640	0.016	0.016	0.017	0.018	10:17:49	10/30/2011 10:17	0.018
8700	0.014	0.015	0.015	0.016	10:18:49	10/30/2011 10:18	0.016

8760	0.017	0.017	0.017	0.018	10:19:49	10/30/2011 10:19	0.018
8820	0.014	0.014	0.015	0.015	10:20:49	10/30/2011 10:20	0.015
8880	0.013	0.013	0.013	0.014	10:21:49	10/30/2011 10:21	0.014
8940	0.019	0.02	0.02	0.021	10:22:49	10/30/2011 10:22	0.022
9000	0.02	0.02	0.02	0.021	10:23:49	10/30/2011 10:23	0.021
9060	0.076	0.076	0.077	0.082	10:24:49	10/30/2011 10:24	0.092
9120	0.015	0.016	0.016	0.016	10:25:49	10/30/2011 10:25	0.016
9180	0.016	0.016	0.017	0.018	10:26:49	10/30/2011 10:26	0.018
9240	0.014	0.015	0.015	0.018	10:27:49	10/30/2011 10:27	0.018
9300	0.014	0.015	0.015	0.016	10:28:49	10/30/2011 10:28	0.016
9360	0.015	0.015	0.015	0.016	10:29:49	10/30/2011 10:29	0.016
9420	0.011	0.011	0.012	0.013	10:30:49	10/30/2011 10:30	0.013
9480	0.012	0.012	0.012	0.013	10:31:49	10/30/2011 10:31	0.013
9540	0.014	0.014	0.014	0.016	10:32:49	10/30/2011 10:32	0.016
9600	0.013	0.013	0.014	0.015	10:33:49	10/30/2011 10:33	0.016
9660	0.011	0.011	0.011	0.011	10:34:49	10/30/2011 10:34	0.012
9720	0.01	0.01	0.01	0.01	10:35:49	10/30/2011 10:35	0.01
9780	0.014	0.015	0.015	0.018	10:36:49	10/30/2011 10:36	0.019
9840	0.015	0.015	0.016	0.018	10:37:49	10/30/2011 10:37	0.02
9900	0.014	0.014	0.015	0.018	10:38:49	10/30/2011 10:38	0.019
9960	0.016	0.016	0.017	0.021	10:39:49	10/30/2011 10:39	0.022
10020	0.018	0.018	0.019	0.026	10:40:49	10/30/2011 10:40	0.027
10080	0.015	0.016	0.017	0.019	10:41:49	10/30/2011 10:41	0.019
10140	0.016	0.017	0.018	0.021	10:42:49	10/30/2011 10:42	0.022
10200	0.02	0.02	0.021	0.024	10:43:49	10/30/2011 10:43	0.025
10260	0.02	0.02	0.021	0.024	10:44:49	10/30/2011 10:44	0.025
10320	0.017	0.018	0.019	0.02	10:45:49	10/30/2011 10:45	0.021
10380	0.016	0.016	0.016	0.017	10:46:49	10/30/2011 10:46	0.018
10440	0.015	0.016	0.016	0.017	10:47:49	10/30/2011 10:47	0.018
10500	0.018	0.019	0.019	0.02	10:48:49	10/30/2011 10:48	0.02
10560	0.014	0.015	0.015	0.016	10:49:49	10/30/2011 10:49	0.016
10620	0.015	0.016	0.016	0.016	10:50:49	10/30/2011 10:50	0.017
10680	0.015	0.015	0.016	0.017	10:51:49	10/30/2011 10:51	0.017
10740	0.015	0.015	0.016	0.017	10:52:49	10/30/2011 10:52	0.017
10800	0.012	0.013	0.013	0.014	10:53:49	10/30/2011 10:53	0.014
10860	0.013	0.013	0.013	0.014	10:54:49	10/30/2011 10:54	0.015
10920	0.015	0.016	0.016	0.017	10:55:49	10/30/2011 10:55	0.017
10980	0.02	0.02	0.021	0.022	10:56:49	10/30/2011 10:56	0.022
11040	0.039	0.039	0.039	0.04	10:57:49	10/30/2011 10:57	0.041
11100	0.024	0.025	0.025	0.027	10:58:49	10/30/2011 10:58	0.027
11160	0.033	0.033	0.033	0.035	10:59:49	10/30/2011 10:59	0.035
11220	0.016	0.017	0.017	0.018	11:00:49	10/30/2011 11:00	0.019
11280	0.017	0.018	0.018	0.019	11:01:49	10/30/2011 11:01	0.019
11340	0.018	0.018	0.019	0.019	11:02:49	10/30/2011 11:02	0.019
11400	0.014	0.014	0.014	0.016	11:03:49	10/30/2011 11:03	0.016
11460	0.017	0.018	0.018	0.02	11:04:49	10/30/2011 11:04	0.021
11520	0.012	0.012	0.013	0.013	11:05:49	10/30/2011 11:05	0.013
11580	0.015	0.015	0.016	0.017	11:06:49	10/30/2011 11:06	0.018
11640	0.015	0.015	0.016	0.017	11:07:49	10/30/2011 11:07	0.017
11700	0.015	0.016	0.016	0.017	11:08:49	10/30/2011 11:08	0.017
11760	0.016	0.016	0.017	0.018	11:09:49	10/30/2011 11:09	0.018
11820	0.014	0.015	0.015	0.016	11:10:49	10/30/2011 11:10	0.016
11880	0.015	0.015	0.015	0.016	11:11:49	10/30/2011 11:11	0.016
11940	0.014	0.014	0.015	0.015	11:12:49	10/30/2011 11:12	0.015
12000	0.015	0.015	0.016	0.016	11:13:49	10/30/2011 11:13	0.016
12060	0.016	0.016	0.016	0.017	11:14:49	10/30/2011 11:14	0.018
12120	0.026	0.026	0.027	0.029	11:15:49	10/30/2011 11:15	0.03
12180	0.019	0.019	0.02	0.021	11:16:49	10/30/2011 11:16	0.021
12240	0.022	0.023	0.023	0.024	11:17:49	10/30/2011 11:17	0.024
12300	0.016	0.016	0.016	0.017	11:18:49	10/30/2011 11:18	0.018
12360	0.018	0.018	0.019	0.02	11:19:49	10/30/2011 11:19	0.02
12420	0.015	0.015	0.015	0.016	11:20:49	10/30/2011 11:20	0.016
12480	0.02	0.02	0.021	0.021	11:21:49	10/30/2011 11:21	0.021
12540	0.015	0.016	0.016	0.017	11:22:49	10/30/2011 11:22	0.017
12600	0.014	0.014	0.015	0.015	11:23:49	10/30/2011 11:23	0.015
12660	0.009	0.009	0.01	0.01	11:24:49	10/30/2011 11:24	0.01
12720	0.012	0.012	0.013	0.013	11:25:49	10/30/2011 11:25	0.013
12780	0.015	0.015	0.016	0.017	11:26:49	10/30/2011 11:26	0.017
12840	0.013	0.013	0.013	0.014	11:27:49	10/30/2011 11:27	0.014
12900	0.014	0.014	0.014	0.015	11:28:49	10/30/2011 11:28	0.015
12960	0.014	0.014	0.015	0.016	11:29:49	10/30/2011 11:29	0.016
13020	0.01	0.01	0.011	0.012	11:30:49	10/30/2011 11:30	0.012
13080	0.014	0.015	0.016	0.018	11:31:49	10/30/2011 11:31	0.018
13140	0.012	0.012	0.013	0.014	11:32:49	10/30/2011 11:32	0.014
13200	0.013	0.013	0.014	0.014	11:33:49	10/30/2011 11:33	0.015
13260	0.014	0.015	0.015	0.017	11:34:49	10/30/2011 11:34	0.018
13320	0.013	0.013	0.014	0.015	11:35:49	10/30/2011 11:35	0.015
13380	0.016	0.016	0.016	0.018	11:36:49	10/30/2011 11:36	0.018
13440	0.017	0.018	0.018	0.023	11:37:49	10/30/2011 11:37	0.024
13500	0.018	0.019	0.02	0.025	11:38:49	10/30/2011 11:38	0.028
13560	0.013	0.014	0.014	0.016	11:39:49	10/30/2011 11:39	0.018
13620	0.016	0.016	0.017	0.02	11:40:49	10/30/2011 11:40	0.021
13680	0.013	0.013	0.014	0.015	11:41:49	10/30/2011 11:41	0.016
13740	0.011	0.011	0.011	0.012	11:42:49	10/30/2011 11:42	0.013
13800	0.013	0.013	0.013	0.014	11:43:49	10/30/2011 11:43	0.015
13860	0.013	0.013	0.013	0.016	11:44:49	10/30/2011 11:44	0.019
13920	0.013	0.013	0.013	0.013	11:45:49	10/30/2011 11:45	0.014
13980	0.013	0.013	0.014	0.014	11:46:49	10/30/2011 11:46	0.014
14040	0.013	0.013	0.013	0.014	11:47:49	10/30/2011 11:47	0.014
14100	0.014	0.014	0.014	0.014	11:48:49	10/30/2011 11:48	0.014
14160	0.012	0.013	0.013	0.013	11:49:49	10/30/2011 11:49	0.014

14220	0.014	0.014	0.015	0.015	11:50:49	10/30/2011 11:50	0.015
14280	0.014	0.015	0.015	0.016	11:51:49	10/30/2011 11:51	0.017
14340	0.012	0.012	0.013	0.013	11:52:49	10/30/2011 11:52	0.013
14400	0.012	0.012	0.012	0.013	11:53:49	10/30/2011 11:53	0.013
14460	0.012	0.013	0.013	0.014	11:54:49	10/30/2011 11:54	0.014
14520	0.015	0.015	0.016	0.016	11:55:49	10/30/2011 11:55	0.016
14580	0.018	0.018	0.019	0.02	11:56:49	10/30/2011 11:56	0.02
14640	0.016	0.017	0.017	0.018	11:57:49	10/30/2011 11:57	0.018
14700	0.016	0.016	0.016	0.017	11:58:49	10/30/2011 11:58	0.018
14760	0.011	0.011	0.012	0.012	11:59:49	10/30/2011 11:59	0.012
14820	0.013	0.013	0.014	0.014	12:00:49	10/30/2011 12:00	0.014
14880	0.016	0.016	0.016	0.017	12:01:49	10/30/2011 12:01	0.017
14940	0.014	0.014	0.014	0.015	12:02:49	10/30/2011 12:02	0.015
15000	0.014	0.014	0.014	0.015	12:03:49	10/30/2011 12:03	0.015
15060	0.014	0.014	0.015	0.016	12:04:49	10/30/2011 12:04	0.016
15120	0.013	0.013	0.013	0.014	12:05:49	10/30/2011 12:05	0.015
15180	0.014	0.015	0.015	0.018	12:06:49	10/30/2011 12:06	0.019
15240	0.013	0.013	0.013	0.015	12:07:49	10/30/2011 12:07	0.015
15300	0.018	0.018	0.018	0.02	12:08:49	10/30/2011 12:08	0.02
15360	0.016	0.016	0.016	0.018	12:09:49	10/30/2011 12:09	0.018
15420	0.025	0.026	0.026	0.027	12:10:49	10/30/2011 12:10	0.028
15480	0.015	0.015	0.015	0.016	12:11:49	10/30/2011 12:11	0.016
15540	0.015	0.015	0.016	0.016	12:12:49	10/30/2011 12:12	0.017
15600	0.014	0.014	0.015	0.016	12:13:49	10/30/2011 12:13	0.016
15660	0.013	0.013	0.013	0.014	12:14:49	10/30/2011 12:14	0.015
15720	0.013	0.014	0.014	0.015	12:15:49	10/30/2011 12:15	0.016
15780	0.013	0.014	0.014	0.015	12:16:49	10/30/2011 12:16	0.015
15840	0.012	0.012	0.013	0.014	12:17:49	10/30/2011 12:17	0.014
15900	0.014	0.014	0.015	0.016	12:18:49	10/30/2011 12:18	0.016
15960	0.013	0.013	0.013	0.015	12:19:49	10/30/2011 12:19	0.015
16020	0.014	0.014	0.014	0.015	12:20:49	10/30/2011 12:20	0.015
16080	0.013	0.013	0.013	0.014	12:21:49	10/30/2011 12:21	0.014
16140	0.012	0.012	0.012	0.013	12:22:49	10/30/2011 12:22	0.013
16200	0.013	0.014	0.014	0.014	12:23:49	10/30/2011 12:23	0.015
16260	0.01	0.011	0.011	0.011	12:24:49	10/30/2011 12:24	0.011
16320	0.01	0.01	0.01	0.01	12:25:49	10/30/2011 12:25	0.01
16380	0.012	0.012	0.012	0.012	12:26:49	10/30/2011 12:26	0.012
16440	0.01	0.01	0.01	0.011	12:27:49	10/30/2011 12:27	0.011
16500	0.009	0.009	0.009	0.01	12:28:49	10/30/2011 12:28	0.01
16560	0.009	0.009	0.009	0.009	12:29:49	10/30/2011 12:29	0.009
16620	0.009	0.009	0.009	0.01	12:30:49	10/30/2011 12:30	0.01
16680	0.009	0.009	0.009	0.01	12:31:49	10/30/2011 12:31	0.01
16740	0.009	0.009	0.009	0.009	12:32:49	10/30/2011 12:32	0.009
16800	0.009	0.009	0.009	0.01	12:33:49	10/30/2011 12:33	0.01
16860	0.01	0.01	0.01	0.011	12:34:49	10/30/2011 12:34	0.011
16920	0.009	0.009	0.009	0.01	12:35:49	10/30/2011 12:35	0.01
16980	0.009	0.01	0.01	0.011	12:36:49	10/30/2011 12:36	0.012
17040	0.009	0.009	0.009	0.011	12:37:49	10/30/2011 12:37	0.011
17100	0.008	0.008	0.008	0.009	12:38:49	10/30/2011 12:38	0.009
17160	0.008	0.008	0.008	0.009	12:39:49	10/30/2011 12:39	0.009
17220	0.009	0.009	0.009	0.011	12:40:49	10/30/2011 12:40	0.011
17280	0.009	0.009	0.009	0.011	12:41:49	10/30/2011 12:41	0.011
17340	0.009	0.009	0.01	0.011	12:42:49	10/30/2011 12:42	0.011
17400	0.008	0.008	0.009	0.009	12:43:49	10/30/2011 12:43	0.009
17460	0.009	0.009	0.009	0.01	12:44:49	10/30/2011 12:44	0.01
17520	0.009	0.009	0.009	0.01	12:45:49	10/30/2011 12:45	0.01
17580	0.009	0.009	0.009	0.01	12:46:49	10/30/2011 12:46	0.01
17640	0.008	0.009	0.009	0.009	12:47:49	10/30/2011 12:47	0.01
17700	0.009	0.009	0.009	0.01	12:48:49	10/30/2011 12:48	0.01
17760	0.008	0.009	0.009	0.01	12:49:49	10/30/2011 12:49	0.01
17820	0.008	0.008	0.008	0.009	12:50:49	10/30/2011 12:50	0.009
17880	0.007	0.008	0.008	0.009	12:51:49	10/30/2011 12:51	0.009
17940	0.009	0.009	0.009	0.01	12:52:49	10/30/2011 12:52	0.01
18000	0.013	0.013	0.013	0.014	12:53:49	10/30/2011 12:53	0.015
18060	0.012	0.012	0.012	0.013	12:54:49	10/30/2011 12:54	0.013
18120	0.011	0.011	0.011	0.011	12:55:49	10/30/2011 12:55	0.011
18180	0.016	0.016	0.016	0.017	12:56:49	10/30/2011 12:56	0.017
18240	0.015	0.015	0.015	0.016	12:57:49	10/30/2011 12:57	0.016
18300	0.012	0.013	0.013	0.014	12:58:49	10/30/2011 12:58	0.014
18360	0.013	0.013	0.014	0.015	12:59:49	10/30/2011 12:59	0.015
18420	0.014	0.015	0.015	0.016	13:00:49	10/30/2011 13:00	0.016
18480	0.016	0.016	0.016	0.018	13:01:49	10/30/2011 13:01	0.018
18540	0.011	0.012	0.012	0.013	13:02:49	10/30/2011 13:02	0.013
18600	0.012	0.012	0.013	0.014	13:03:49	10/30/2011 13:03	0.014
18660	0.011	0.012	0.012	0.013	13:04:49	10/30/2011 13:04	0.013
18720	0.01	0.01	0.011	0.011	13:05:49	10/30/2011 13:05	0.011
18780	0.013	0.013	0.014	0.015	13:06:49	10/30/2011 13:06	0.015
18840	0.019	0.019	0.02	0.02	13:07:49	10/30/2011 13:07	0.02
18900	0.017	0.017	0.017	0.018	13:08:49	10/30/2011 13:08	0.019
18960	0.014	0.014	0.015	0.016	13:09:49	10/30/2011 13:09	0.016
19020	0.013	0.014	0.014	0.016	13:10:49	10/30/2011 13:10	0.016
19080	0.014	0.014	0.015	0.015	13:11:49	10/30/2011 13:11	0.015
19140	0.012	0.012	0.013	0.013	13:12:49	10/30/2011 13:12	0.013
19200	0.012	0.012	0.013	0.014	13:13:49	10/30/2011 13:13	0.014
19260	0.014	0.014	0.015	0.016	13:14:49	10/30/2011 13:14	0.017
19320	0.013	0.013	0.014	0.015	13:15:49	10/30/2011 13:15	0.015
19380	0.013	0.013	0.013	0.016	13:16:49	10/30/2011 13:16	0.016
19440	0.015	0.015	0.015	0.018	13:17:49	10/30/2011 13:17	0.018
19500	0.013	0.013	0.014	0.016	13:18:49	10/30/2011 13:18	0.016
19560	0.013	0.014	0.014	0.015	13:19:49	10/30/2011 13:19	0.016
19620	0.013	0.013	0.014	0.016	13:20:49	10/30/2011 13:20	0.017

19680	0.014	0.014	0.015	0.018	13:21:49	10/30/2011 13:21	0.018
19740	0.012	0.013	0.013	0.015	13:22:49	10/30/2011 13:22	0.016
19800	0.013	0.013	0.014	0.017	13:23:49	10/30/2011 13:23	0.018
19860	0.01	0.011	0.011	0.012	13:24:49	10/30/2011 13:24	0.012
19920	0.012	0.013	0.013	0.014	13:25:49	10/30/2011 13:25	0.015
19980	0.012	0.012	0.013	0.013	13:26:49	10/30/2011 13:26	0.014
20040	0.013	0.013	0.014	0.014	13:27:49	10/30/2011 13:27	0.015
20100	0.012	0.012	0.012	0.013	13:28:49	10/30/2011 13:28	0.013
20160	0.01	0.01	0.011	0.012	13:29:49	10/30/2011 13:29	0.012
20220	0.013	0.013	0.014	0.015	13:30:49	10/30/2011 13:30	0.015
20280	0.015	0.016	0.017	0.018	13:31:49	10/30/2011 13:31	0.018
20340	0.013	0.014	0.014	0.015	13:32:49	10/30/2011 13:32	0.015
20400	0.02	0.02	0.021	0.022	13:33:49	10/30/2011 13:33	0.022
20460	0.015	0.016	0.016	0.019	13:34:49	10/30/2011 13:34	0.019
20520	0.012	0.012	0.012	0.013	13:35:49	10/30/2011 13:35	0.013
20580	0.014	0.014	0.015	0.016	13:36:49	10/30/2011 13:36	0.017
20640	0.015	0.015	0.016	0.017	13:37:49	10/30/2011 13:37	0.017
20700	0.014	0.015	0.015	0.017	13:38:49	10/30/2011 13:38	0.017
20760	0.014	0.014	0.014	0.017	13:39:49	10/30/2011 13:39	0.017
20820	0.011	0.011	0.012	0.013	13:40:49	10/30/2011 13:40	0.014
20880	0.014	0.014	0.015	0.021	13:41:49	10/30/2011 13:41	0.023
20940	0.011	0.011	0.012	0.015	13:42:49	10/30/2011 13:42	0.016
21000	0.013	0.013	0.013	0.016	13:43:49	10/30/2011 13:43	0.017
21060	0.017	0.017	0.018	0.022	13:44:49	10/30/2011 13:44	0.023
21120	0.014	0.014	0.015	0.017	13:45:49	10/30/2011 13:45	0.017
21180	0.013	0.013	0.013	0.016	13:46:49	10/30/2011 13:46	0.017
21240	0.01	0.01	0.01	0.011	13:47:49	10/30/2011 13:47	0.011
21300	0.01	0.01	0.011	0.011	13:48:49	10/30/2011 13:48	0.012
21360	0.015	0.015	0.016	0.017	13:49:49	10/30/2011 13:49	0.018
21420	0.013	0.013	0.013	0.014	13:50:49	10/30/2011 13:50	0.014
21480	0.007	0.007	0.007	0.007	13:51:49	10/30/2011 13:51	0.007
21540	0.009	0.009	0.009	0.01	13:52:49	10/30/2011 13:52	0.01
21600	0.014	0.014	0.015	0.015	13:53:49	10/30/2011 13:53	0.016
21660	0.016	0.016	0.016	0.017	13:54:49	10/30/2011 13:54	0.018
21720	0.013	0.014	0.014	0.015	13:55:49	10/30/2011 13:55	0.016
21780	0.013	0.013	0.013	0.015	13:56:49	10/30/2011 13:56	0.016
21840	0.01	0.01	0.011	0.012	13:57:49	10/30/2011 13:57	0.012
21900	0.011	0.011	0.011	0.012	13:58:49	10/30/2011 13:58	0.012
21960	0.01	0.01	0.01	0.011	13:59:49	10/30/2011 13:59	0.011
22020	0.009	0.01	0.01	0.01	14:00:49	10/30/2011 14:00	0.011
22080	0.011	0.011	0.011	0.012	14:01:49	10/30/2011 14:01	0.013
22140	0.011	0.011	0.012	0.014	14:02:49	10/30/2011 14:02	0.014
22200	0.011	0.011	0.011	0.013	14:03:49	10/30/2011 14:03	0.013
22260	0.016	0.016	0.016	0.018	14:04:49	10/30/2011 14:04	0.018
22320	0.011	0.012	0.012	0.013	14:05:49	10/30/2011 14:05	0.013
22380	0.009	0.009	0.009	0.011	14:06:49	10/30/2011 14:06	0.011
22440	0.012	0.012	0.013	0.016	14:07:49	10/30/2011 14:07	0.017
22500	0.01	0.01	0.01	0.013	14:08:49	10/30/2011 14:08	0.014
22560	0.011	0.012	0.012	0.014	14:09:49	10/30/2011 14:09	0.014
22620	0.01	0.01	0.011	0.012	14:10:49	10/30/2011 14:10	0.012
22680	0.01	0.01	0.01	0.011	14:11:49	10/30/2011 14:11	0.011
22740	0.009	0.009	0.01	0.01	14:12:49	10/30/2011 14:12	0.01
22800	0.01	0.01	0.01	0.011	14:13:49	10/30/2011 14:13	0.011
22860	0.012	0.013	0.013	0.015	14:14:49	10/30/2011 14:14	0.016
22920	0.013	0.013	0.013	0.014	14:15:49	10/30/2011 14:15	0.015
22980	0.012	0.012	0.013	0.014	14:16:49	10/30/2011 14:16	0.014
23040	0.02	0.02	0.021	0.023	14:17:49	10/30/2011 14:17	0.024
23100	0.021	0.021	0.022	0.025	14:18:49	10/30/2011 14:18	0.025
23160	0.019	0.02	0.02	0.023	14:19:49	10/30/2011 14:19	0.023
23220	0.035	0.036	0.036	0.038	14:20:49	10/30/2011 14:20	0.039
23280	0.024	0.024	0.024	0.026	14:21:49	10/30/2011 14:21	0.026
23340	0.017	0.018	0.018	0.018	14:22:49	10/30/2011 14:22	0.018
23400	0.013	0.013	0.013	0.015	14:23:49	10/30/2011 14:23	0.015
23460	0.012	0.012	0.012	0.012	14:24:49	10/30/2011 14:24	0.012
23520	0.011	0.011	0.012	0.013	14:25:49	10/30/2011 14:25	0.013
23580	0.011	0.011	0.011	0.012	14:26:49	10/30/2011 14:26	0.013
23640	0.012	0.012	0.013	0.014	14:27:49	10/30/2011 14:27	0.015
23700	0.02	0.02	0.021	0.026	14:28:49	10/30/2011 14:28	0.028
23760	0.014	0.014	0.015	0.016	14:29:49	10/30/2011 14:29	0.016
23820	0.014	0.014	0.014	0.016	14:30:49	10/30/2011 14:30	0.016
23880	0.014	0.014	0.014	0.015	14:31:49	10/30/2011 14:31	0.015
23940	0.013	0.013	0.014	0.015	14:32:49	10/30/2011 14:32	0.015
24000	0.012	0.013	0.013	0.014	14:33:49	10/30/2011 14:33	0.015
24060	0.015	0.015	0.015	0.016	14:34:49	10/30/2011 14:34	0.016
24120	0.013	0.013	0.014	0.014	14:35:49	10/30/2011 14:35	0.014
24180	0.012	0.012	0.013	0.014	14:36:49	10/30/2011 14:36	0.014
24240	0.012	0.012	0.012	0.013	14:37:49	10/30/2011 14:37	0.013
24300	0.013	0.014	0.014	0.014	14:38:49	10/30/2011 14:38	0.014
24360	0.01	0.01	0.01	0.011	14:39:49	10/30/2011 14:39	0.011
24420	0.011	0.011	0.011	0.012	14:40:49	10/30/2011 14:40	0.013
24480	0.012	0.012	0.012	0.013	14:41:49	10/30/2011 14:41	0.013
24540	0.011	0.011	0.011	0.012	14:42:49	10/30/2011 14:42	0.012
24600	0.01	0.01	0.011	0.012	14:43:49	10/30/2011 14:43	0.012
24660	0.011	0.011	0.011	0.012	14:44:49	10/30/2011 14:44	0.012
24720	0.01	0.01	0.01	0.011	14:45:49	10/30/2011 14:45	0.011
24780	0.008	0.008	0.009	0.009	14:46:49	10/30/2011 14:46	0.009
24840	0.01	0.01	0.01	0.012	14:47:49	10/30/2011 14:47	0.012
24900	0.012	0.012	0.012	0.014	14:48:49	10/30/2011 14:48	0.015
24960	0.012	0.012	0.013	0.014	14:49:49	10/30/2011 14:49	0.014
25020	0.01	0.011	0.011	0.011	14:50:49	10/30/2011 14:50	0.011
25080	0.01	0.01	0.01	0.011	14:51:49	10/30/2011 14:51	0.011

25140	0.011	0.011	0.011	0.012	14:52:49	10/30/2011 14:52	0.012
25200	0.009	0.009	0.009	0.009	14:53:49	10/30/2011 14:53	0.01
25260	0.011	0.012	0.012	0.013	14:54:49	10/30/2011 14:54	0.013
25320	0.012	0.012	0.012	0.014	14:55:49	10/30/2011 14:55	0.014
25380	0.012	0.013	0.013	0.014	14:56:49	10/30/2011 14:56	0.014
25440	0.016	0.017	0.017	0.017	14:57:49	10/30/2011 14:57	0.018
25500	0.013	0.013	0.013	0.014	14:58:49	10/30/2011 14:58	0.014
25560	0.014	0.015	0.015	0.017	14:59:49	10/30/2011 14:59	0.019
25620	0.015	0.015	0.016	0.018	15:00:49	10/30/2011 15:00	0.019
25680	0.015	0.016	0.016	0.018	15:01:49	10/30/2011 15:01	0.018
25740	0.015	0.015	0.016	0.017	15:02:49	10/30/2011 15:02	0.017
25800	0.016	0.016	0.016	0.017	15:03:49	10/30/2011 15:03	0.017
25860	0.015	0.016	0.016	0.017	15:04:49	10/30/2011 15:04	0.018
25920	0.015	0.015	0.016	0.018	15:05:49	10/30/2011 15:05	0.018
25980	0.014	0.014	0.014	0.016	15:06:49	10/30/2011 15:06	0.017
26040	0.013	0.013	0.013	0.015	15:07:49	10/30/2011 15:07	0.015
26100	0.014	0.014	0.014	0.016	15:08:49	10/30/2011 15:08	0.017
26160	0.013	0.014	0.014	0.015	15:09:49	10/30/2011 15:09	0.015
26220	0.013	0.013	0.014	0.015	15:10:49	10/30/2011 15:10	0.015
26280	0.012	0.012	0.013	0.014	15:11:49	10/30/2011 15:11	0.014
26340	0.015	0.015	0.016	0.018	15:12:49	10/30/2011 15:12	0.019
26400	0.014	0.014	0.015	0.017	15:13:49	10/30/2011 15:13	0.017
26460	0.014	0.014	0.014	0.016	15:14:49	10/30/2011 15:14	0.017
26520	0.014	0.014	0.015	0.016	15:15:49	10/30/2011 15:15	0.016
26580	0.014	0.014	0.014	0.017	15:16:49	10/30/2011 15:16	0.018
26640	0.014	0.014	0.015	0.016	15:17:49	10/30/2011 15:17	0.017
26700	0.014	0.014	0.014	0.016	15:18:49	10/30/2011 15:18	0.016
26760	0.014	0.015	0.015	0.016	15:19:49	10/30/2011 15:19	0.017
26820	0.014	0.014	0.015	0.017	15:20:49	10/30/2011 15:20	0.017
26880	0.015	0.015	0.016	0.018	15:21:49	10/30/2011 15:21	0.018
26940	0.017	0.017	0.018	0.02	15:22:49	10/30/2011 15:22	0.02
27000	0.017	0.017	0.018	0.023	15:23:49	10/30/2011 15:23	0.024
27060	0.017	0.018	0.019	0.023	15:24:49	10/30/2011 15:24	0.025
27120	0.014	0.014	0.015	0.019	15:25:49	10/30/2011 15:25	0.021
27180	0.015	0.016	0.016	0.019	15:26:49	10/30/2011 15:26	0.02
27240	0.015	0.015	0.016	0.019	15:27:49	10/30/2011 15:27	0.019
27300	0.015	0.015	0.015	0.016	15:28:49	10/30/2011 15:28	0.016
27360	0.017	0.018	0.018	0.02	15:29:49	10/30/2011 15:29	0.02
27420	0.015	0.015	0.016	0.016	15:30:49	10/30/2011 15:30	0.016
27480	0.017	0.017	0.017	0.018	15:31:49	10/30/2011 15:31	0.018

RI Addendum No. 2 (2012-2013)

January 2016

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005302
User ID: 00000001 Site ID: 00000124
Data Points: 240 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/21/2012 13:15

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Avg
1	07/21/2012 13:17	0.0	0.0	0.1	0
2	07/21/2012 13:18	0.0	0.0	0.0	0
3	07/21/2012 13:19	0.0	0.2	4.2	0.2
4	07/21/2012 13:20	0.0	0.5	14.5	0.5
5	07/21/2012 13:21	0.1	0.3	0.6	0.3
6	07/21/2012 13:22	0.0	0.1	0.4	0.1
7	07/21/2012 13:23	0.0	0.0	0.2	0
8	07/21/2012 13:24	0.0	0.1	0.3	0.1
9	07/21/2012 13:25	0.0	0.1	0.3	0.1
10	07/21/2012 13:26	0.0	0.0	0.2	0
11	07/21/2012 13:27	0.1	0.1	0.3	0.1
12	07/21/2012 13:28	0.0	0.1	0.3	0.1
13	07/21/2012 13:29	0.0	0.0	0.2	0
14	07/21/2012 13:30	0.0	0.0	0.1	0
15	07/21/2012 13:31	0.0	0.0	0.1	0
16	07/21/2012 13:32	0.0	0.1	0.3	0.1
17	07/21/2012 13:33	0.0	0.1	0.2	0.1
18	07/21/2012 13:34	0.0	0.1	0.4	0.1
19	07/21/2012 13:35	0.0	0.2	0.5	0.2
20	07/21/2012 13:36	0.0	0.1	0.3	0.1
21	07/21/2012 13:37	0.2	0.2	0.4	0.2
22	07/21/2012 13:38	0.3	0.3	0.6	0.3
23	07/21/2012 13:39	0.2	0.3	0.5	0.3
24	07/21/2012 13:40	0.3	0.4	0.5	0.4
25	07/21/2012 13:41	0.2	0.2	0.4	0.2
26	07/21/2012 13:42	0.3	0.3	0.5	0.3
27	07/21/2012 13:43	0.3	0.3	0.5	0.3
28	07/21/2012 13:44	0.2	0.3	0.5	0.3
29	07/21/2012 13:45	0.4	0.5	0.7	0.5
30	07/21/2012 13:46	0.2	0.3	0.5	0.3
31	07/21/2012 13:47	0.2	0.3	0.5	0.3
32	07/21/2012 13:48	0.4	0.5	0.7	0.5
33	07/21/2012 13:49	0.2	0.3	0.5	0.3
34	07/21/2012 13:50	0.3	0.7	1.1	0.7
35	07/21/2012 13:51	0.4	0.5	0.8	0.5
36	07/21/2012 13:52	0.6	0.7	1.0	0.7
37	07/21/2012 13:53	0.3	0.4	0.9	0.4
38	07/21/2012 13:54	0.2	0.2	0.3	0.2
39	07/21/2012 13:55	0.2	0.3	0.6	0.3
40	07/21/2012 13:56	0.2	0.3	0.5	0.3
41	07/21/2012 13:57	0.2	0.2	0.4	0.2
42	07/21/2012 13:58	0.2	0.2	0.4	0.2
43	07/21/2012 13:59	0.2	0.2	0.4	0.2
44	07/21/2012 14:00	0.2	0.6	0.9	0.6
45	07/21/2012 14:01	0.2	0.4	0.7	0.4
46	07/21/2012 14:02	0.2	0.2	0.4	0.2
47	07/21/2012 14:03	0.3	0.3	0.6	0.3
48	07/21/2012 14:04	0.4	0.5	0.8	0.5
49	07/21/2012 14:05	0.2	0.4	0.7	0.4
50	07/21/2012 14:06	0.1	0.3	0.5	0.3
51	07/21/2012 14:07	0.1	0.2	0.4	0.2
52	07/21/2012 14:08	0.1	0.2	0.4	0.2

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000141
Data Points: 207 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/21/2012 13:30

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Difference	Comments
				0	0	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0.2	Mobing to drill SB-20J
					0.5	Mobing to drill SB-20J
					0.3	Mobing to drill SB-20J
					0.1	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0.1	Mobing to drill SB-20J
					0.1	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0.1	Mobing to drill SB-20J
					0.1	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
					0	Mobing to drill SB-20J
1	07/21/2012 13:32	0.1	0.2	0.4	0.1	Mobing to drill SB-20J
2	07/21/2012 13:33	0.0	0.0	0.2	0.1	Mobing to drill SB-20J
3	07/21/2012 13:34	0.0	0.0	0.0	0.1	Mobing to drill SB-20J
4	07/21/2012 13:35	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
5	07/21/2012 13:36	0.0	0.0	0.0	0.1	Mobing to drill SB-20J
6	07/21/2012 13:37	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
7	07/21/2012 13:38	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
8	07/21/2012 13:39	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
9	07/21/2012 13:40	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
10	07/21/2012 13:41	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
11	07/21/2012 13:42	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
12	07/21/2012 13:43	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
13	07/21/2012 13:44	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
14	07/21/2012 13:45	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
15	07/21/2012 13:46	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
16	07/21/2012 13:47	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
17	07/21/2012 13:48	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
18	07/21/2012 13:49	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
19	07/21/2012 13:50	0.0	0.0	0.0	0.7	Mobing to drill SB-20J
20	07/21/2012 13:51	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
21	07/21/2012 13:52	0.0	0.0	0.0	0.7	Mobing to drill SB-20J
22	07/21/2012 13:53	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
23	07/21/2012 13:54	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
24	07/21/2012 13:55	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
25	07/21/2012 13:56	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
26	07/21/2012 13:57	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
27	07/21/2012 13:58	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
28	07/21/2012 13:59	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
29	07/21/2012 14:00	0.0	0.0	0.0	0.6	Mobing to drill SB-20J
30	07/21/2012 14:01	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
31	07/21/2012 14:02	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
32	07/21/2012 14:03	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
33	07/21/2012 14:04	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
34	07/21/2012 14:05	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
35	07/21/2012 14:06	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
36	07/21/2012 14:07	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
37	07/21/2012 14:08	0.0	0.0	0.0	0.2	Mobing to drill SB-20J

53	07/21/2012 14:09	0.2	0.2	0.4	0.2	38	07/21/2012 14:09	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
54	07/21/2012 14:10	0.1	0.2	0.5	0.2	39	07/21/2012 14:10	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
55	07/21/2012 14:11	0.1	0.2	0.4	0.2	40	07/21/2012 14:11	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
56	07/21/2012 14:12	0.1	0.2	0.4	0.2	41	07/21/2012 14:12	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
57	07/21/2012 14:13	0.2	0.2	0.5	0.2	42	07/21/2012 14:13	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
58	07/21/2012 14:14	0.2	0.3	0.5	0.3	43	07/21/2012 14:14	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
59	07/21/2012 14:15	0.2	0.4	0.6	0.4	44	07/21/2012 14:15	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
60	07/21/2012 14:16	0.2	0.3	0.5	0.3	45	07/21/2012 14:16	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
61	07/21/2012 14:17	0.2	0.2	0.4	0.2	46	07/21/2012 14:17	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
62	07/21/2012 14:18	0.2	0.3	0.6	0.3	47	07/21/2012 14:18	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
63	07/21/2012 14:19	0.3	0.4	0.7	0.4	48	07/21/2012 14:19	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
64	07/21/2012 14:20	0.3	0.4	0.7	0.4	49	07/21/2012 14:20	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
65	07/21/2012 14:21	0.3	0.4	0.6	0.4	50	07/21/2012 14:21	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
66	07/21/2012 14:22	0.2	0.2	0.4	0.2	51	07/21/2012 14:22	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
67	07/21/2012 14:23	0.2	0.2	0.4	0.2	52	07/21/2012 14:23	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
68	07/21/2012 14:24	0.2	0.2	0.3	0.2	53	07/21/2012 14:24	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
69	07/21/2012 14:25	0.2	0.2	0.3	0.2	54	07/21/2012 14:25	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
70	07/21/2012 14:26	0.2	0.2	0.4	0.2	55	07/21/2012 14:26	0.0	0.0	0.0	0.2	Mobing to drill SB-20J
71	07/21/2012 14:27	0.2	0.3	0.5	0.3	56	07/21/2012 14:27	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
72	07/21/2012 14:28	0.2	0.3	0.5	0.3	57	07/21/2012 14:28	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
73	07/21/2012 14:29	0.2	0.3	0.6	0.3	58	07/21/2012 14:29	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
74	07/21/2012 14:30	0.2	0.3	0.7	0.3	59	07/21/2012 14:30	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
75	07/21/2012 14:31	0.3	0.4	0.7	0.4	60	07/21/2012 14:31	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
76	07/21/2012 14:32	0.3	0.5	0.7	0.5	61	07/21/2012 14:32	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
77	07/21/2012 14:33	0.2	0.3	0.5	0.3	62	07/21/2012 14:33	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
78	07/21/2012 14:34	0.3	0.5	0.8	0.5	63	07/21/2012 14:34	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
79	07/21/2012 14:35	0.3	0.4	0.6	0.4	64	07/21/2012 14:35	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
80	07/21/2012 14:36	0.3	0.4	0.5	0.4	65	07/21/2012 14:36	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
81	07/21/2012 14:37	0.3	0.4	0.6	0.4	66	07/21/2012 14:37	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
82	07/21/2012 14:38	0.3	0.4	0.6	0.4	67	07/21/2012 14:38	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
83	07/21/2012 14:39	0.4	0.4	0.7	0.4	68	07/21/2012 14:39	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
84	07/21/2012 14:40	0.3	0.4	0.5	0.4	69	07/21/2012 14:40	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
85	07/21/2012 14:41	0.3	0.4	0.6	0.4	70	07/21/2012 14:41	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
86	07/21/2012 14:42	0.1	0.5	2.7	0.5	71	07/21/2012 14:42	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
87	07/21/2012 14:43	0.0	0.4	1.5	0.4	72	07/21/2012 14:43	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
88	07/21/2012 14:44	0.4	0.5	0.9	0.5	73	07/21/2012 14:44	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
89	07/21/2012 14:45	0.5	0.5	0.8	0.5	74	07/21/2012 14:45	0.0	0.0	0.1	0.5	Mobing to drill SB-20J
90	07/21/2012 14:46	0.3	0.6	1.1	0.6	75	07/21/2012 14:46	0.0	0.0	0.0	0.6	Mobing to drill SB-20J
91	07/21/2012 14:47	0.3	0.4	0.7	0.4	76	07/21/2012 14:47	0.0	0.0	0.1	0.4	Mobing to drill SB-20J
92	07/21/2012 14:48	0.3	0.5	0.9	0.5	77	07/21/2012 14:48	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
93	07/21/2012 14:49	0.3	0.4	0.6	0.4	78	07/21/2012 14:49	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
94	07/21/2012 14:50	0.4	0.5	0.7	0.5	79	07/21/2012 14:50	0.0	0.0	0.0	0.5	Mobing to drill SB-20J
95	07/21/2012 14:51	0.3	0.4	0.6	0.4	80	07/21/2012 14:51	0.0	0.0	0.0	0.4	Mobing to drill SB-20J
96	07/21/2012 14:52	0.3	0.3	0.5	0.3	81	07/21/2012 14:52	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
97	07/21/2012 14:53	0.2	0.3	0.5	0.3	82	07/21/2012 14:53	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
98	07/21/2012 14:54	0.3	0.6	1.0	0.6	83	07/21/2012 14:54	0.0	0.0	0.0	0.6	Mobing to drill SB-20J
99	07/21/2012 14:55	0.2	0.6	3.7	0.6	84	07/21/2012 14:55	0.0	0.0	0.0	0.6	Mobing to drill SB-20J
100	07/21/2012 14:56	0.0	0.3	0.7	0.3	85	07/21/2012 14:56	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
101	07/21/2012 14:57	0.3	0.3	0.5	0.3	86	07/21/2012 14:57	0.0	0.0	0.0	0.3	Mobing to drill SB-20J
102	07/21/2012 14:58	0.0	0.3	2.3	0.3	87	07/21/2012 14:58	0.0	0.0	0.0	0.3	Drilling SB-20J
103	07/21/2012 14:59	0.2	0.3	0.4	0.3	88	07/21/2012 14:59	0.0	0.0	0.1	0.3	Drilling SB-20J
104	07/21/2012 15:00	0.2	0.3	0.5	0.3	89	07/21/2012 15:00	0.0	0.0	0.0	0.3	Drilling SB-20J
105	07/21/2012 15:01	0.3	0.3	0.5	0.3	90	07/21/2012 15:01	0.0	0.0	0.0	0.3	Drilling SB-20J
106	07/21/2012 15:02	0.3	0.3	0.5	0.3	91	07/21/2012 15:02	0.0	0.0	0.0	0.3	Drilling SB-20J
107	07/21/2012 15:03	0.2	0.2	0.3	0.2	92	07/21/2012 15:03	0.0	0.0	0.2	0.2	Drilling SB-20J
108	07/21/2012 15:04	0.2	0.3	0.4	0.3	93	07/21/2012 15:04	0.0	0.0	0.0	0.3	Drilling SB-20J
109	07/21/2012 15:05	0.0	0.2	0.8	0.2	94	07/21/2012 15:05	0.0	0.0	0.1	0.2	Drilling SB-20J
110	07/21/2012 15:06	0.0	0.1	0.3	0.1	95	07/21/2012 15:06	0.0	0.0	0.0	0.1	Drilling SB-20J
111	07/21/2012 15:07	0.0	0.2	0.3	0.2	96	07/21/2012 15:07	0.0	0.0	0.0	0.2	Drilling SB-20J
112	07/21/2012 15:08	0.1	0.2	0.4	0.2	97	07/21/2012 15:08	0.0	0.0	0.0	0.2	Drilling SB-20J
113	07/21/2012 15:09	0.1	0.2	0.4	0.2	98	07/21/2012 15:09	0.0	0.0	0.0	0.2	Drilling SB-20J
114	07/21/2012 15:10	0.2	0.3	0.5	0.3	99	07/21/2012 15:10	0.0	0.0	0.0	0.3	Drilling SB-20J
115	07/21/2012 15:11	0.0	0.3	1.4	0.3	100	07/21/2012 15:11	0.0	0.0	0.0	0.3	Drilling SB-20J
116	07/21/2012 15:12	0.2	0.3	0.5	0.3	101	07/21/2012 15:12	0.0	0.0	0.0	0.3	Drilling SB-20J
117	07/21/2012 15:13	0.2	0.2	0.4	0.2	102	07/21/2012 15:13	0.0	0.0	0.0	0.2	Drilling SB-20J

118	07/21/2012 15:14	0.2	0.2	0.4	0.2	103	07/21/2012 15:14	0.0	0.0	0.0	0.2	Drilling SB-20J
119	07/21/2012 15:15	0.2	0.3	0.5	0.3	104	07/21/2012 15:15	0.0	0.0	0.0	0.3	Drilling SB-20J
120	07/21/2012 15:16	0.1	0.1	0.3	0.1	105	07/21/2012 15:16	0.0	0.0	0.1	0.1	Drilling SB-20J
121	07/21/2012 15:17	0.1	0.2	0.4	0.2	106	07/21/2012 15:17	0.0	0.0	0.0	0.2	Drilling SB-20J
122	07/21/2012 15:18	0.1	0.2	0.4	0.2	107	07/21/2012 15:18	0.0	0.0	0.0	0.2	Drilling SB-20J
123	07/21/2012 15:19	0.1	0.2	0.3	0.2	108	07/21/2012 15:19	0.0	0.0	0.1	0.2	Drilling SB-20J
124	07/21/2012 15:20	0.1	0.1	0.3	0.1	109	07/21/2012 15:20	0.0	0.0	0.1	0.1	Drilling SB-20J
125	07/21/2012 15:21	0.1	0.1	0.4	0.1	110	07/21/2012 15:21	0.0	0.0	0.0	0.1	Drilling SB-20J
126	07/21/2012 15:22	0.1	0.2	0.4	0.2	111	07/21/2012 15:22	0.0	0.0	0.0	0.2	Drilling SB-20J
127	07/21/2012 15:23	0.1	0.2	0.4	0.2	112	07/21/2012 15:23	0.0	0.0	0.0	0.2	Drilling SB-20J
128	07/21/2012 15:24	0.2	0.3	0.4	0.3	113	07/21/2012 15:24	0.0	0.0	0.0	0.3	Drilling SB-20J
129	07/21/2012 15:25	0.1	0.2	0.4	0.2	114	07/21/2012 15:25	0.0	0.0	0.0	0.2	Drilling SB-20J
130	07/21/2012 15:26	0.0	0.1	0.5	0.1	115	07/21/2012 15:26	0.0	0.0	0.0	0.1	Drilling SB-20J
131	07/21/2012 15:27	0.1	0.1	0.3	0.1	116	07/21/2012 15:27	0.0	0.0	0.0	0.1	Drilling SB-20J
132	07/21/2012 15:28	0.0	0.1	0.3	0.1	117	07/21/2012 15:28	0.0	0.0	0.0	0.1	Drilling SB-20J
133	07/21/2012 15:29	0.1	0.2	0.3	0.2	118	07/21/2012 15:29	0.0	0.0	0.0	0.2	Drilling SB-20J
134	07/21/2012 15:30	0.1	0.2	0.4	0.2	119	07/21/2012 15:30	0.0	0.0	0.0	0.2	Drilling SB-20J
135	07/21/2012 15:31	0.0	0.1	0.2	0.1	120	07/21/2012 15:31	0.0	0.0	0.0	0.1	Drilling SB-20J
136	07/21/2012 15:32	0.0	0.1	0.2	0.1	121	07/21/2012 15:32	0.0	0.0	0.1	0.1	Drilling SB-20J
137	07/21/2012 15:33	0.1	0.2	0.4	0.2	122	07/21/2012 15:33	0.0	0.0	0.0	0.2	Drilling SB-20J
138	07/21/2012 15:34	0.0	0.1	0.3	0.1	123	07/21/2012 15:34	0.0	0.0	0.0	0.1	Drilling SB-20J
139	07/21/2012 15:35	0.1	0.1	0.3	0.1	124	07/21/2012 15:35	0.0	0.0	0.0	0.1	Drilling SB-20J
140	07/21/2012 15:36	0.1	0.1	0.3	0.1	125	07/21/2012 15:36	0.0	0.0	0.0	0.1	Drilling SB-20J
141	07/21/2012 15:37	0.0	0.1	0.2	0.1	126	07/21/2012 15:37	0.0	0.0	0.0	0.1	Drilling SB-20J
142	07/21/2012 15:38	0.0	0.1	0.3	0.1	127	07/21/2012 15:38	0.0	0.0	0.0	0.1	Drilling SB-20J
143	07/21/2012 15:39	0.0	0.1	0.2	0.1	128	07/21/2012 15:39	0.0	0.0	0.0	0.1	Drilling SB-20J
144	07/21/2012 15:40	0.0	0.1	0.4	0.1	129	07/21/2012 15:40	0.0	0.0	0.0	0.1	Drilling SB-20J
145	07/21/2012 15:41	0.0	0.0	0.2	0	130	07/21/2012 15:41	0.0	0.0	0.0	0	Drilling SB-20J
146	07/21/2012 15:42	0.0	0.0	0.1	0	131	07/21/2012 15:42	0.0	0.0	0.0	0	Drilling SB-20J
147	07/21/2012 15:43	0.0	0.0	0.2	0	132	07/21/2012 15:43	0.0	0.0	0.0	0	Drilling SB-20J
148	07/21/2012 15:44	0.0	0.1	0.3	0.1	133	07/21/2012 15:44	0.0	0.0	0.0	0.1	Drilling SB-20J
149	07/21/2012 15:45	0.0	0.0	0.4	0	134	07/21/2012 15:45	0.0	0.0	0.0	0	Drilling SB-20J
150	07/21/2012 15:46	0.0	0.1	1.9	0.1	135	07/21/2012 15:46	0.0	0.0	0.0	0.1	Drilling SB-20J
151	07/21/2012 15:47	0.0	0.0	0.3	0	136	07/21/2012 15:47	0.0	0.0	0.0	0	Drilling SB-20J
152	07/21/2012 15:48	0.0	0.0	0.2	0	137	07/21/2012 15:48	0.0	0.0	0.0	0	Drilling SB-20J
153	07/21/2012 15:49	0.0	0.0	0.1	0	138	07/21/2012 15:49	0.0	0.0	0.0	0	Drilling SB-20J
154	07/21/2012 15:50	0.0	0.1	0.2	0.1	139	07/21/2012 15:50	0.0	0.0	0.0	0.1	Drilling SB-20J
155	07/21/2012 15:51	0.0	0.1	0.2	0.1	140	07/21/2012 15:51	0.0	0.0	0.0	0.1	Drilling SB-20J
156	07/21/2012 15:52	0.0	0.0	0.1	0	141	07/21/2012 15:52	0.0	0.0	0.0	0	Drilling SB-20J
157	07/21/2012 15:53	0.0	0.0	0.2	0	142	07/21/2012 15:53	0.0	0.0	0.0	0	Drilling SB-20J
158	07/21/2012 15:54	0.0	0.0	0.2	0	143	07/21/2012 15:54	0.0	0.0	0.0	0	Drilling SB-20J
159	07/21/2012 15:55	0.0	0.0	0.1	0	144	07/21/2012 15:55	0.0	0.0	0.0	0	Drilling SB-20J
160	07/21/2012 15:56	0.0	0.0	0.1	0	145	07/21/2012 15:56	0.0	0.0	0.0	0	Drilling SB-20J
161	07/21/2012 15:57	0.0	0.0	0.1	0	146	07/21/2012 15:57	0.0	0.0	0.0	0	Drilling SB-20J
162	07/21/2012 15:58	0.0	0.0	0.1	0	147	07/21/2012 15:58	0.0	0.0	0.0	0	Drilling SB-20J
163	07/21/2012 15:59	0.0	0.0	0.1	0	148	07/21/2012 15:59	0.0	0.0	0.0	0	Drilling SB-20J
164	07/21/2012 16:00	0.0	0.0	0.1	0	149	07/21/2012 16:00	0.0	0.0	0.0	0	Drilling SB-20J
165	07/21/2012 16:01	0.0	0.0	0.1	0	150	07/21/2012 16:01	0.0	0.0	0.0	0	Drilling SB-20J
166	07/21/2012 16:02	0.0	0.0	0.0	0	151	07/21/2012 16:02	0.0	0.0	0.0	0	Drilling SB-20J
167	07/21/2012 16:03	0.0	0.0	0.1	0	152	07/21/2012 16:03	0.0	0.0	0.0	0	Drilling SB-20J
168	07/21/2012 16:04	0.0	0.0	0.3	0	153	07/21/2012 16:04	0.0	0.0	0.0	0	Drilling SB-20J
169	07/21/2012 16:05	0.0	0.0	0.1	0	154	07/21/2012 16:05	0.0	0.0	0.0	0	Drilling SB-20J
170	07/21/2012 16:06	0.0	0.0	0.1	0	155	07/21/2012 16:06	0.0	0.0	0.0	0	Drilling SB-20J
171	07/21/2012 16:07	0.0	0.0	0.1	0	156	07/21/2012 16:07	0.0	0.0	0.0	0	Drilling SB-20J
172	07/21/2012 16:08	0.0	0.0	0.1	0	157	07/21/2012 16:08	0.0	0.0	0.0	0	Drilling SB-20J
173	07/21/2012 16:09	0.0	0.0	0.1	0	158	07/21/2012 16:09	0.0	0.0	0.0	0	Drilling SB-20J
174	07/21/2012 16:10	0.0	0.0	0.1	0	159	07/21/2012 16:10	0.0	0.0	0.0	0	Drilling SB-20J
175	07/21/2012 16:11	0.0	0.0	0.3	0	160	07/21/2012 16:11	0.0	0.0	0.0	0	Drilling SB-20J
176	07/21/2012 16:12	0.0	0.0	0.4	0	161	07/21/2012 16:12	0.0	0.0	0.0	0	Drilling SB-20J
177	07/21/2012 16:13	0.0	0.0	0.5	0	162	07/21/2012 16:13	0.0	0.0	0.0	0	Drilling SB-20J
178	07/21/2012 16:14	0.0	0.0	0.4	0	163	07/21/2012 16:14	0.0	0.0	0.0	0	Drilling SB-20J
179	07/21/2012 16:15	0.0	0.0	0.2	0	164	07/21/2012 16:15	0.0	0.0	0.0	0	Drilling SB-20J
180	07/21/2012 16:16	0.0	0.0	0.1	0	165	07/21/2012 16:16	0.0	0.0	0.0	0	Drilling SB-20J
181	07/21/2012 16:17	0.0	0.0	0.0	0	166	07/21/2012 16:17	0.0	0.0	0.0	0	Drilling SB-20J
182	07/21/2012 16:18	0.0	0.0	0.1	0	167	07/21/2012 16:18	0.0	0.0	0.0	0	Drilling SB-20J

183	07/21/2012 16:19	0.0	0.1	0.3	0	168	07/21/2012 16:19	0.0	0.0	0.0	0	Drilling SB-20J
184	07/21/2012 16:20	0.0	0.0	0.2	0	169	07/21/2012 16:20	0.0	0.0	0.0	0	Drilling SB-20J
185	07/21/2012 16:21	0.0	0.0	0.3	0	170	07/21/2012 16:21	0.0	0.0	0.0	0	Drilling SB-20J
186	07/21/2012 16:22	0.0	0.1	0.4	0	171	07/21/2012 16:22	0.0	0.0	0.0	0	Drilling SB-20J
187	07/21/2012 16:23	0.0	0.1	0.3	0	172	07/21/2012 16:23	0.0	0.0	0.0	0	Drilling SB-20J
188	07/21/2012 16:24	0.0	0.0	0.2	0	173	07/21/2012 16:24	0.0	0.0	0.0	0	Drilling SB-20J
189	07/21/2012 16:25	0.0	0.0	0.1	0	174	07/21/2012 16:25	0.0	0.0	0.0	0	Drilling SB-20J
190	07/21/2012 16:26	0.0	0.0	0.1	0	175	07/21/2012 16:26	0.0	0.0	0.0	0	Drilling SB-20J
191	07/21/2012 16:27	0.0	0.0	0.1	0	176	07/21/2012 16:27	0.0	0.0	0.0	0	Drilling SB-20J
192	07/21/2012 16:28	0.0	0.0	0.1	0	177	07/21/2012 16:28	0.0	0.0	0.0	0	Drilling SB-20J
193	07/21/2012 16:29	0.0	0.0	0.1	0	178	07/21/2012 16:29	0.0	0.0	0.0	0	Drilling SB-20J
194	07/21/2012 16:30	0.0	0.0	0.1	0	179	07/21/2012 16:30	0.0	0.0	0.0	0	Drilling SB-20J
195	07/21/2012 16:31	0.0	0.0	0.5	0	180	07/21/2012 16:31	0.0	0.0	0.0	0	Drilling SB-20J
196	07/21/2012 16:32	0.0	0.0	0.1	0	181	07/21/2012 16:32	0.0	0.0	0.0	0	Drilling SB-20J
197	07/21/2012 16:33	0.0	0.0	0.1	0	182	07/21/2012 16:33	0.0	0.0	0.0	0	Drilling SB-20J
198	07/21/2012 16:34	0.0	0.0	0.1	0	183	07/21/2012 16:34	0.0	0.0	0.0	0	Drilling SB-20J
199	07/21/2012 16:35	0.0	0.1	0.3		184	07/21/2012 16:35	0.0	0.0	0.0	0	Drilling SB-20J
200	07/21/2012 16:36	0.0	0.0	0.2	0	185	07/21/2012 16:36	0.0	0.0	0.0	0	Drilling SB-20J
201	07/21/2012 16:37	0.0	0.0	0.2	0	186	07/21/2012 16:37	0.0	0.0	0.0	0	Drilling SB-20J
202	07/21/2012 16:38	0.0	0.0	0.2	0	187	07/21/2012 16:38	0.0	0.0	0.0	0	Drilling SB-20J
203	07/21/2012 16:39	0.0	0.0	0.2	0	188	07/21/2012 16:39	0.0	0.0	0.0	0	Drilling SB-20J
204	07/21/2012 16:40	0.0	0.0	0.2	0	189	07/21/2012 16:40	0.0	0.0	0.0	0	Drilling SB-20J
205	07/21/2012 16:41	0.0	0.0	0.1	0	190	07/21/2012 16:41	0.0	0.0	0.0	0	Drilling SB-20J
206	07/21/2012 16:42	0.0	0.0	0.2	0	191	07/21/2012 16:42	0.0	0.0	0.0	0	Drilling SB-20J
207	07/21/2012 16:43	0.0	0.0	0.4	0	192	07/21/2012 16:43	0.0	0.0	0.0	0	Drilling SB-20J
208	07/21/2012 16:44	0.0	0.0	0.3	0	193	07/21/2012 16:44	0.0	0.0	0.0	0	Drilling SB-20J
209	07/21/2012 16:45	0.0	0.0	0.0	0	194	07/21/2012 16:45	0.0	0.0	0.0	0	Drilling SB-20J
210	07/21/2012 16:46	0.0	0.0	0.1	0	195	07/21/2012 16:46	0.0	0.0	0.0	0	Drilling SB-20J
211	07/21/2012 16:47	0.0	0.0	0.2	0	196	07/21/2012 16:47	0.0	0.0	0.0	0	Drilling SB-20J
212	07/21/2012 16:48	0.0	0.0	0.1	0	197	07/21/2012 16:48	0.0	0.0	0.0	0	Drilling SB-20J
213	07/21/2012 16:49	0.0	0.0	0.0	0	198	07/21/2012 16:49	0.0	0.0	0.0	0	Drilling SB-20J
214	07/21/2012 16:50	0.0	0.0	0.0	0	199	07/21/2012 16:50	0.0	0.0	0.0	0	Drilling SB-20J
215	07/21/2012 16:51	0.0	0.0	0.1	0	200	07/21/2012 16:51	0.0	0.0	0.0	0	Drilling SB-20J
216	07/21/2012 16:52	0.0	0.0	0.1	0	201	07/21/2012 16:52	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
217	07/21/2012 16:53	0.0	0.0	0.0	0	202	07/21/2012 16:53	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
218	07/21/2012 16:54	0.0	0.0	0.0	0	203	07/21/2012 16:54	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
219	07/21/2012 16:55	0.0	0.0	0.1	0	204	07/21/2012 16:55	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
220	07/21/2012 16:56	0.0	0.0	0.1	0	205	07/21/2012 16:56	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
221	07/21/2012 16:57	0.0	0.0	0.1	0	206	07/21/2012 16:57	0.0	0.0	0.0	0	Paused drilling hit bedrock, examining samples
222	07/21/2012 16:58	0.0	0.0	0.5	0							Paused drilling hit bedrock, examining samples
223	07/21/2012 16:59	0.0	0.0	0.8	0							Paused drilling hit bedrock, examining samples
224	07/21/2012 17:00	0.0	0.0	0.1	0							Paused drilling hit bedrock, examining samples
225	07/21/2012 17:01	0.0	0.0	0.1	0							Paused drilling hit bedrock, examining samples
226	07/21/2012 17:02	0.0	0.0	0.4	0							Paused drilling hit bedrock, examining samples
227	07/21/2012 17:03	0.0	0.0	0.1	0							Paused drilling hit bedrock, examining samples
228	07/21/2012 17:04	0.0	0.0	0.1	0							Paused drilling hit bedrock, examining samples
229	07/21/2012 17:05	0.0	0.0	0.1	0							Drilling SB-20J
230	07/21/2012 17:06	0.0	0.0	0.1	0							Drilling SB-20J
231	07/21/2012 17:07	0.0	0.1	0.2								Drilling SB-20J
232	07/21/2012 17:08	0.0	0.0	0.1	0							Drilling SB-20J
233	07/21/2012 17:09	0.0	0.0	0.1	0							Drilling SB-20J
234	07/21/2012 17:10	0.0	0.0	0.1	0							Drilling SB-20J
235	07/21/2012 17:11	0.0	0.0	0.1	0							Drilling SB-20J
236	07/21/2012 17:12	0.0	0.0	0.1	0							Drilling SB-20J
237	07/21/2012 17:13	0.0	0.0	0.1	0							Drilling SB-20J
238	07/21/2012 17:14	0.0	0.0	0.2	0							Drilling SB-20J
239	07/21/2012 17:15	0.0	0.0	0.2	0							Finished drilling for the day
												Demobing

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000142
Data Points: 248 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/21/2012 13:30

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	07/22/2012 08:32	0.0	0.0	0.0
2	07/22/2012 08:33	0.0	0.0	0.0
3	07/22/2012 08:34	0.0	0.0	0.0
4	07/22/2012 08:35	0.0	0.0	0.0
5	07/22/2012 08:36	0.0	0.0	0.0
6	07/22/2012 08:37	0.0	0.0	0.0
7	07/22/2012 08:38	0.0	0.0	0.0
8	07/22/2012 08:39	0.0	0.0	0.0
9	07/22/2012 08:40	0.0	0.0	0.0
10	07/22/2012 08:41	0.0	0.0	0.0
11	07/22/2012 08:42	0.0	0.0	0.0
12	07/22/2012 08:43	0.0	0.0	0.0
13	07/22/2012 08:44	0.0	0.0	0.0
14	07/22/2012 08:45	0.0	0.0	0.0
15	07/22/2012 08:46	0.0	0.0	0.0
16	07/22/2012 08:47	0.0	0.0	0.0
17	07/22/2012 08:48	0.0	0.0	0.0
18	07/22/2012 08:49	0.0	0.0	0.0
19	07/22/2012 08:50	0.0	0.0	0.0
20	07/22/2012 08:51	0.0	0.0	0.0
21	07/22/2012 08:52	0.0	0.0	0.0
22	07/22/2012 08:53	0.0	0.0	0.0
23	07/22/2012 08:54	0.0	0.0	0.0
24	07/22/2012 08:55	0.0	0.0	0.0
25	07/22/2012 08:56	0.0	0.0	0.0
26	07/22/2012 08:57	0.0	0.0	0.0
27	07/22/2012 08:58	0.0	0.0	0.0
28	07/22/2012 08:59	0.0	0.0	0.0
29	07/22/2012 09:00	0.0	0.0	0.0
30	07/22/2012 09:01	0.0	0.0	0.0
31	07/22/2012 09:02	0.0	0.0	0.0
32	07/22/2012 09:03	0.0	0.0	0.0
33	07/22/2012 09:04	0.0	0.0	0.0
34	07/22/2012 09:05	0.0	0.0	0.0
35	07/22/2012 09:06	0.0	0.0	0.0
36	07/22/2012 09:07	0.0	0.0	0.0
37	07/22/2012 09:08	0.0	0.0	0.0
38	07/22/2012 09:09	0.0	0.0	0.0
39	07/22/2012 09:10	0.0	0.0	0.0
40	07/22/2012 09:11	0.0	0.0	0.0
41	07/22/2012 09:12	0.0	0.0	0.0
42	07/22/2012 09:13	0.0	0.0	0.0
43	07/22/2012 09:14	0.0	0.0	0.0
44	07/22/2012 09:15	0.0	0.0	0.0
45	07/22/2012 09:16	0.0	0.0	0.0
46	07/22/2012 09:17	0.0	0.0	0.0
47	07/22/2012 09:18	0.0	0.0	0.0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000142
Data Points: 248 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/21/2012 13:30

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Difference	Comments
1	07/22/2012 08:32	0.0	0.0	0.0	0	
2	07/22/2012 08:33	0.0	0.0	0.0	0	
3	07/22/2012 08:34	0.0	0.0	0.0	0	
4	07/22/2012 08:35	0.0	0.0	0.0	0	
5	07/22/2012 08:36	0.0	0.0	0.0	0	
6	07/22/2012 08:37	0.0	0.0	0.0	0	
7	07/22/2012 08:38	0.0	0.0	0.0	0	
8	07/22/2012 08:39	0.0	0.0	0.0	0	
9	07/22/2012 08:40	0.0	0.0	0.0	0	
10	07/22/2012 08:41	0.0	0.0	0.0	0	
11	07/22/2012 08:42	0.0	0.0	0.0	0	
12	07/22/2012 08:43	0.0	0.0	0.0	0	
13	07/22/2012 08:44	0.0	0.0	0.0	0	
14	07/22/2012 08:45	0.0	0.0	0.0	0	
15	07/22/2012 08:46	0.0	0.0	0.0	0	
16	07/22/2012 08:47	0.0	0.0	0.0	0	
17	07/22/2012 08:48	0.0	0.0	0.0	0	
18	07/22/2012 08:49	0.0	0.0	0.0	0	
19	07/22/2012 08:50	0.0	0.0	0.0	0	
20	07/22/2012 08:51	0.0	0.0	0.0	0	
21	07/22/2012 08:52	0.0	0.0	0.0	0	
22	07/22/2012 08:53	0.0	0.0	0.0	0	
23	07/22/2012 08:54	0.0	0.0	0.0	0	
24	07/22/2012 08:55	0.0	0.0	0.0	0	
25	07/22/2012 08:56	0.0	0.0	0.0	0	
26	07/22/2012 08:57	0.0	0.0	0.0	0	
27	07/22/2012 08:58	0.0	0.0	0.0	0	
28	07/22/2012 08:59	0.0	0.0	0.0	0	
29	07/22/2012 09:00	0.0	0.0	0.0	0	
30	07/22/2012 09:01	0.0	0.0	0.0	0	
31	07/22/2012 09:02	0.0	0.0	0.0	0	
32	07/22/2012 09:03	0.0	0.0	0.0	0	
33	07/22/2012 09:04	0.0	0.0	0.0	0	
34	07/22/2012 09:05	0.0	0.0	0.0	0	
35	07/22/2012 09:06	0.0	0.0	0.0	0	
36	07/22/2012 09:07	0.0	0.0	0.0	0	
37	07/22/2012 09:08	0.0	0.0	0.0	0	
38	07/22/2012 09:09	0.0	0.0	0.0	0	
39	07/22/2012 09:10	0.0	0.0	0.0	0	
40	07/22/2012 09:11	0.0	0.0	0.0	0	
41	07/22/2012 09:12	0.0	0.0	0.0	0	
42	07/22/2012 09:13	0.0	0.0	0.0	0	
43	07/22/2012 09:14	0.0	0.0	0.0	0	
44	07/22/2012 09:15	0.0	0.0	0.0	0	
45	07/22/2012 09:16	0.0	0.0	0.0	0	
46	07/22/2012 09:17	0.0	0.0	0.0	0	
47	07/22/2012 09:18	0.0	0.0	0.0	0	

48	07/22/2012 09:19	0.0	0.0	0.0	48	07/22/2012 09:19	0.0	0.0	0.0	0
49	07/22/2012 09:20	0.0	0.0	0.0	49	07/22/2012 09:20	0.0	0.0	0.0	0
50	07/22/2012 09:21	0.0	0.0	0.0	50	07/22/2012 09:21	0.0	0.0	0.0	0
51	07/22/2012 09:22	0.0	0.0	0.0	51	07/22/2012 09:22	0.0	0.0	0.0	0
52	07/22/2012 09:23	0.0	0.0	0.0	52	07/22/2012 09:23	0.0	0.0	0.0	0
53	07/22/2012 09:24	0.0	0.0	0.0	53	07/22/2012 09:24	0.0	0.0	0.0	0
54	07/22/2012 09:25	0.0	0.0	0.0	54	07/22/2012 09:25	0.0	0.0	0.0	0
55	07/22/2012 09:26	0.0	0.0	0.0	55	07/22/2012 09:26	0.0	0.0	0.0	0
56	07/22/2012 09:27	0.0	0.0	0.0	56	07/22/2012 09:27	0.0	0.0	0.0	0
57	07/22/2012 09:28	0.0	0.0	0.0	57	07/22/2012 09:28	0.0	0.0	0.0	0
58	07/22/2012 09:29	0.0	0.0	0.0	58	07/22/2012 09:29	0.0	0.0	0.0	0
59	07/22/2012 09:30	0.0	0.0	0.0	59	07/22/2012 09:30	0.0	0.0	0.0	0
60	07/22/2012 09:31	0.0	0.0	0.0	60	07/22/2012 09:31	0.0	0.0	0.0	0
61	07/22/2012 09:32	0.0	0.0	0.0	61	07/22/2012 09:32	0.0	0.0	0.0	0
62	07/22/2012 09:33	0.0	0.0	0.0	62	07/22/2012 09:33	0.0	0.0	0.0	0
63	07/22/2012 09:34	0.0	0.0	0.0	63	07/22/2012 09:34	0.0	0.0	0.0	0
64	07/22/2012 09:35	0.0	0.0	0.0	64	07/22/2012 09:35	0.0	0.0	0.0	0
65	07/22/2012 09:36	0.0	0.0	0.0	65	07/22/2012 09:36	0.0	0.0	0.0	0
66	07/22/2012 09:37	0.0	0.0	0.0	66	07/22/2012 09:37	0.0	0.0	0.0	0
67	07/22/2012 09:38	0.0	0.0	0.0	67	07/22/2012 09:38	0.0	0.0	0.0	0
68	07/22/2012 09:39	0.0	0.0	0.0	68	07/22/2012 09:39	0.0	0.0	0.0	0
69	07/22/2012 09:40	0.0	0.0	0.0	69	07/22/2012 09:40	0.0	0.0	0.0	0
70	07/22/2012 09:41	0.0	0.0	0.0	70	07/22/2012 09:41	0.0	0.0	0.0	0
71	07/22/2012 09:42	0.0	0.0	0.0	71	07/22/2012 09:42	0.0	0.0	0.0	0
72	07/22/2012 09:43	0.0	0.0	0.0	72	07/22/2012 09:43	0.0	0.0	0.0	0
73	07/22/2012 09:44	0.0	0.0	0.0	73	07/22/2012 09:44	0.0	0.0	0.0	0
74	07/22/2012 09:45	0.0	0.0	0.0	74	07/22/2012 09:45	0.0	0.0	0.0	0
75	07/22/2012 09:46	0.0	0.0	0.0	75	07/22/2012 09:46	0.0	0.0	0.0	0
76	07/22/2012 09:47	0.0	0.0	0.0	76	07/22/2012 09:47	0.0	0.0	0.0	0
77	07/22/2012 09:48	0.0	0.0	0.0	77	07/22/2012 09:48	0.0	0.0	0.0	0
78	07/22/2012 09:49	0.0	0.0	0.0	78	07/22/2012 09:49	0.0	0.0	0.0	0
79	07/22/2012 09:50	0.0	0.0	0.0	79	07/22/2012 09:50	0.0	0.0	0.0	0
80	07/22/2012 09:51	0.0	0.0	0.0	80	07/22/2012 09:51	0.0	0.0	0.0	0
81	07/22/2012 09:52	0.0	0.0	0.0	81	07/22/2012 09:52	0.0	0.0	0.0	0
82	07/22/2012 09:53	0.0	0.0	0.0	82	07/22/2012 09:53	0.0	0.0	0.0	0
83	07/22/2012 09:54	0.0	0.0	0.0	83	07/22/2012 09:54	0.0	0.0	0.0	0
84	07/22/2012 09:55	0.0	0.0	0.0	84	07/22/2012 09:55	0.0	0.0	0.0	0
85	07/22/2012 09:56	0.0	0.0	0.0	85	07/22/2012 09:56	0.0	0.0	0.0	0
86	07/22/2012 09:57	0.0	0.0	0.0	86	07/22/2012 09:57	0.0	0.0	0.0	0
87	07/22/2012 09:58	0.0	0.0	0.0	87	07/22/2012 09:58	0.0	0.0	0.0	0
88	07/22/2012 09:59	0.0	0.0	0.0	88	07/22/2012 09:59	0.0	0.0	0.0	0
89	07/22/2012 10:00	0.0	0.0	0.0	89	07/22/2012 10:00	0.0	0.0	0.0	0
90	07/22/2012 10:01	0.0	0.0	0.0	90	07/22/2012 10:01	0.0	0.0	0.0	0
91	07/22/2012 10:02	0.0	0.0	0.0	91	07/22/2012 10:02	0.0	0.0	0.0	0
92	07/22/2012 10:03	0.0	0.0	0.0	92	07/22/2012 10:03	0.0	0.0	0.0	0
93	07/22/2012 10:04	0.0	0.0	0.0	93	07/22/2012 10:04	0.0	0.0	0.0	0
94	07/22/2012 10:05	0.0	0.0	0.0	94	07/22/2012 10:05	0.0	0.0	0.0	0
95	07/22/2012 10:06	0.0	0.0	0.0	95	07/22/2012 10:06	0.0	0.0	0.0	0
96	07/22/2012 10:07	0.0	0.0	0.0	96	07/22/2012 10:07	0.0	0.0	0.0	0
97	07/22/2012 10:08	0.0	0.0	0.0	97	07/22/2012 10:08	0.0	0.0	0.0	0
98	07/22/2012 10:09	0.0	0.0	0.0	98	07/22/2012 10:09	0.0	0.0	0.0	0
99	07/22/2012 10:10	0.0	0.0	0.0	99	07/22/2012 10:10	0.0	0.0	0.0	0
100	07/22/2012 10:11	0.0	0.0	0.0	100	07/22/2012 10:11	0.0	0.0	0.0	0
101	07/22/2012 10:12	0.0	0.0	0.0	101	07/22/2012 10:12	0.0	0.0	0.0	0
102	07/22/2012 10:13	0.0	0.0	0.0	102	07/22/2012 10:13	0.0	0.0	0.0	0
103	07/22/2012 10:14	0.0	0.0	0.0	103	07/22/2012 10:14	0.0	0.0	0.0	0
104	07/22/2012 10:15	0.0	0.0	0.0	104	07/22/2012 10:15	0.0	0.0	0.0	0
105	07/22/2012 10:16	0.0	0.0	0.0	105	07/22/2012 10:16	0.0	0.0	0.0	0
106	07/22/2012 10:17	0.0	0.0	0.0	106	07/22/2012 10:17	0.0	0.0	0.0	0

107	07/22/2012 10:18	0.0	0.0	0.0	107	07/22/2012 10:18	0.0	0.0	0.0	0
108	07/22/2012 10:19	0.0	0.0	0.0	108	07/22/2012 10:19	0.0	0.0	0.0	0
109	07/22/2012 10:20	0.0	0.0	0.0	109	07/22/2012 10:20	0.0	0.0	0.0	0
110	07/22/2012 10:21	0.0	0.0	0.0	110	07/22/2012 10:21	0.0	0.0	0.0	0
111	07/22/2012 10:22	0.0	0.0	0.0	111	07/22/2012 10:22	0.0	0.0	0.0	0
112	07/22/2012 10:23	0.0	0.0	0.0	112	07/22/2012 10:23	0.0	0.0	0.0	0
113	07/22/2012 10:24	0.0	0.0	0.0	113	07/22/2012 10:24	0.0	0.0	0.0	0
114	07/22/2012 10:25	0.0	0.0	0.0	114	07/22/2012 10:25	0.0	0.0	0.0	0
115	07/22/2012 10:26	0.0	0.0	0.0	115	07/22/2012 10:26	0.0	0.0	0.0	0
116	07/22/2012 10:27	0.0	0.0	0.0	116	07/22/2012 10:27	0.0	0.0	0.0	0
117	07/22/2012 10:28	0.0	0.0	0.0	117	07/22/2012 10:28	0.0	0.0	0.0	0
118	07/22/2012 10:29	0.0	0.0	0.0	118	07/22/2012 10:29	0.0	0.0	0.0	0
119	07/22/2012 10:30	0.0	0.0	0.0	119	07/22/2012 10:30	0.0	0.0	0.0	0
120	07/22/2012 10:31	0.0	0.0	0.0	120	07/22/2012 10:31	0.0	0.0	0.0	0
121	07/22/2012 10:32	0.0	0.0	0.0	121	07/22/2012 10:32	0.0	0.0	0.0	0
122	07/22/2012 10:33	0.0	0.0	0.0	122	07/22/2012 10:33	0.0	0.0	0.0	0
123	07/22/2012 10:34	0.0	0.0	0.0	123	07/22/2012 10:34	0.0	0.0	0.0	0
124	07/22/2012 10:35	0.0	0.0	0.0	124	07/22/2012 10:35	0.0	0.0	0.0	0
125	07/22/2012 10:36	0.0	0.0	0.0	125	07/22/2012 10:36	0.0	0.0	0.0	0
126	07/22/2012 10:37	0.0	0.0	0.0	126	07/22/2012 10:37	0.0	0.0	0.0	0
127	07/22/2012 10:38	0.0	0.0	0.0	127	07/22/2012 10:38	0.0	0.0	0.0	0
128	07/22/2012 10:39	0.0	0.0	0.0	128	07/22/2012 10:39	0.0	0.0	0.0	0
129	07/22/2012 10:40	0.0	0.0	0.0	129	07/22/2012 10:40	0.0	0.0	0.0	0
130	07/22/2012 10:41	0.0	0.0	0.0	130	07/22/2012 10:41	0.0	0.0	0.0	0
131	07/22/2012 10:42	0.0	0.0	0.0	131	07/22/2012 10:42	0.0	0.0	0.0	0
132	07/22/2012 10:43	0.0	0.0	0.0	132	07/22/2012 10:43	0.0	0.0	0.0	0
133	07/22/2012 10:44	0.0	0.0	0.0	133	07/22/2012 10:44	0.0	0.0	0.0	0
134	07/22/2012 10:45	0.0	0.0	0.0	134	07/22/2012 10:45	0.0	0.0	0.0	0
135	07/22/2012 10:46	0.0	0.0	0.0	135	07/22/2012 10:46	0.0	0.0	0.0	0
136	07/22/2012 10:47	0.0	0.0	0.0	136	07/22/2012 10:47	0.0	0.0	0.0	0
137	07/22/2012 10:48	0.0	0.0	0.0	137	07/22/2012 10:48	0.0	0.0	0.0	0
138	07/22/2012 10:49	0.0	0.0	0.0	138	07/22/2012 10:49	0.0	0.0	0.0	0
139	07/22/2012 10:50	0.0	0.0	0.0	139	07/22/2012 10:50	0.0	0.0	0.0	0
140	07/22/2012 10:51	0.0	0.0	0.0	140	07/22/2012 10:51	0.0	0.0	0.0	0
141	07/22/2012 10:52	0.0	0.0	0.0	141	07/22/2012 10:52	0.0	0.0	0.0	0
142	07/22/2012 10:53	0.0	0.0	0.0	142	07/22/2012 10:53	0.0	0.0	0.0	0
143	07/22/2012 10:54	0.0	0.0	0.0	143	07/22/2012 10:54	0.0	0.0	0.0	0
144	07/22/2012 10:55	0.0	0.0	0.0	144	07/22/2012 10:55	0.0	0.0	0.0	0
145	07/22/2012 10:56	0.0	0.0	0.0	145	07/22/2012 10:56	0.0	0.0	0.0	0
146	07/22/2012 10:57	0.0	0.0	0.0	146	07/22/2012 10:57	0.0	0.0	0.0	0
147	07/22/2012 10:58	0.0	0.0	0.0	147	07/22/2012 10:58	0.0	0.0	0.0	0
148	07/22/2012 10:59	0.0	0.0	0.0	148	07/22/2012 10:59	0.0	0.0	0.0	0
149	07/22/2012 11:00	0.0	0.0	0.0	149	07/22/2012 11:00	0.0	0.0	0.0	0
150	07/22/2012 11:01	0.0	0.0	0.0	150	07/22/2012 11:01	0.0	0.0	0.0	0
151	07/22/2012 11:02	0.0	0.0	0.0	151	07/22/2012 11:02	0.0	0.0	0.0	0
152	07/22/2012 11:03	0.0	0.0	0.0	152	07/22/2012 11:03	0.0	0.0	0.0	0
153	07/22/2012 11:04	0.0	0.0	0.0	153	07/22/2012 11:04	0.0	0.0	0.0	0
154	07/22/2012 11:05	0.0	0.0	0.0	154	07/22/2012 11:05	0.0	0.0	0.0	0
155	07/22/2012 11:06	0.0	0.0	0.0	155	07/22/2012 11:06	0.0	0.0	0.0	0
156	07/22/2012 11:07	0.0	0.0	0.0	156	07/22/2012 11:07	0.0	0.0	0.0	0
157	07/22/2012 11:08	0.0	0.0	0.0	157	07/22/2012 11:08	0.0	0.0	0.0	0
158	07/22/2012 11:09	0.0	0.0	0.0	158	07/22/2012 11:09	0.0	0.0	0.0	0
159	07/22/2012 11:10	0.0	0.0	0.0	159	07/22/2012 11:10	0.0	0.0	0.0	0
160	07/22/2012 11:11	0.0	0.0	0.0	160	07/22/2012 11:11	0.0	0.0	0.0	0
161	07/22/2012 11:12	0.0	0.0	0.0	161	07/22/2012 11:12	0.0	0.0	0.0	0
162	07/22/2012 11:13	0.0	0.0	0.0	162	07/22/2012 11:13	0.0	0.0	0.0	0
163	07/22/2012 11:14	0.0	0.0	0.0	163	07/22/2012 11:14	0.0	0.0	0.0	0
164	07/22/2012 11:15	0.0	0.0	0.0	164	07/22/2012 11:15	0.0	0.0	0.0	0
165	07/22/2012 11:16	0.0	0.0	0.0	165	07/22/2012 11:16	0.0	0.0	0.0	0

166	07/22/2012 11:17	0.0	0.0	0.0	166	07/22/2012 11:17	0.0	0.0	0.0	0
167	07/22/2012 11:18	0.0	0.0	0.0	167	07/22/2012 11:18	0.0	0.0	0.0	0
168	07/22/2012 11:19	0.0	0.0	0.0	168	07/22/2012 11:19	0.0	0.0	0.0	0
169	07/22/2012 11:20	0.0	0.0	0.0	169	07/22/2012 11:20	0.0	0.0	0.0	0
170	07/22/2012 11:21	0.0	0.0	0.0	170	07/22/2012 11:21	0.0	0.0	0.0	0
171	07/22/2012 11:22	0.0	0.0	0.0	171	07/22/2012 11:22	0.0	0.0	0.0	0
172	07/22/2012 11:23	0.0	0.0	0.0	172	07/22/2012 11:23	0.0	0.0	0.0	0
173	07/22/2012 11:24	0.0	0.0	0.0	173	07/22/2012 11:24	0.0	0.0	0.0	0
174	07/22/2012 11:25	0.0	0.0	0.0	174	07/22/2012 11:25	0.0	0.0	0.0	0
175	07/22/2012 11:26	0.0	0.0	0.0	175	07/22/2012 11:26	0.0	0.0	0.0	0
176	07/22/2012 11:27	0.0	0.0	0.0	176	07/22/2012 11:27	0.0	0.0	0.0	0
177	07/22/2012 11:28	0.0	0.0	0.0	177	07/22/2012 11:28	0.0	0.0	0.0	0
178	07/22/2012 11:29	0.0	0.0	0.0	178	07/22/2012 11:29	0.0	0.0	0.0	0
179	07/22/2012 11:30	0.0	0.0	0.0	179	07/22/2012 11:30	0.0	0.0	0.0	0
180	07/22/2012 11:31	0.0	0.0	0.0	180	07/22/2012 11:31	0.0	0.0	0.0	0
181	07/22/2012 11:32	0.0	0.0	0.0	181	07/22/2012 11:32	0.0	0.0	0.0	0
182	07/22/2012 11:33	0.0	0.0	0.0	182	07/22/2012 11:33	0.0	0.0	0.0	0
183	07/22/2012 11:34	0.0	0.0	0.0	183	07/22/2012 11:34	0.0	0.0	0.0	0
184	07/22/2012 11:35	0.0	0.0	0.0	184	07/22/2012 11:35	0.0	0.0	0.0	0
185	07/22/2012 11:36	0.0	0.0	0.0	185	07/22/2012 11:36	0.0	0.0	0.0	0
186	07/22/2012 11:37	0.0	0.0	0.0	186	07/22/2012 11:37	0.0	0.0	0.0	0
187	07/22/2012 11:38	0.0	0.0	0.0	187	07/22/2012 11:38	0.0	0.0	0.0	0
188	07/22/2012 11:39	0.0	0.0	0.0	188	07/22/2012 11:39	0.0	0.0	0.0	0
189	07/22/2012 11:40	0.0	0.0	0.0	189	07/22/2012 11:40	0.0	0.0	0.0	0
190	07/22/2012 11:41	0.0	0.0	0.0	190	07/22/2012 11:41	0.0	0.0	0.0	0
191	07/22/2012 11:42	0.0	0.0	0.0	191	07/22/2012 11:42	0.0	0.0	0.0	0
192	07/22/2012 11:43	0.0	0.0	0.0	192	07/22/2012 11:43	0.0	0.0	0.0	0
193	07/22/2012 11:44	0.0	0.0	0.0	193	07/22/2012 11:44	0.0	0.0	0.0	0
194	07/22/2012 11:45	0.0	0.0	0.0	194	07/22/2012 11:45	0.0	0.0	0.0	0
195	07/22/2012 11:46	0.0	0.0	0.0	195	07/22/2012 11:46	0.0	0.0	0.0	0
196	07/22/2012 11:47	0.0	0.0	0.0	196	07/22/2012 11:47	0.0	0.0	0.0	0
197	07/22/2012 11:48	0.0	0.0	0.0	197	07/22/2012 11:48	0.0	0.0	0.0	0
198	07/22/2012 11:49	0.0	0.0	0.0	198	07/22/2012 11:49	0.0	0.0	0.0	0
199	07/22/2012 11:50	0.0	0.0	0.0	199	07/22/2012 11:50	0.0	0.0	0.0	0
200	07/22/2012 11:51	0.0	0.0	0.0	200	07/22/2012 11:51	0.0	0.0	0.0	0
201	07/22/2012 11:52	0.0	0.0	0.0	201	07/22/2012 11:52	0.0	0.0	0.0	0
202	07/22/2012 11:53	0.0	0.0	0.0	202	07/22/2012 11:53	0.0	0.0	0.0	0
203	07/22/2012 11:54	0.0	0.0	0.0	203	07/22/2012 11:54	0.0	0.0	0.0	0
204	07/22/2012 11:55	0.0	0.0	0.0	204	07/22/2012 11:55	0.0	0.0	0.0	0
205	07/22/2012 11:56	0.0	0.0	0.0	205	07/22/2012 11:56	0.0	0.0	0.0	0
206	07/22/2012 11:57	0.0	0.0	0.0	206	07/22/2012 11:57	0.0	0.0	0.0	0
207	07/22/2012 11:58	0.0	0.0	0.0	207	07/22/2012 11:58	0.0	0.0	0.0	0
208	07/22/2012 11:59	0.0	0.0	0.0	208	07/22/2012 11:59	0.0	0.0	0.0	0
209	07/22/2012 12:00	0.0	0.0	0.0	209	07/22/2012 12:00	0.0	0.0	0.0	0
210	07/22/2012 12:01	0.0	0.0	0.0	210	07/22/2012 12:01	0.0	0.0	0.0	0
211	07/22/2012 12:02	0.0	0.0	0.0	211	07/22/2012 12:02	0.0	0.0	0.0	0
212	07/22/2012 12:03	0.0	0.0	0.0	212	07/22/2012 12:03	0.0	0.0	0.0	0
213	07/22/2012 12:04	0.0	0.0	0.0	213	07/22/2012 12:04	0.0	0.0	0.0	0
214	07/22/2012 12:05	0.0	0.0	0.0	214	07/22/2012 12:05	0.0	0.0	0.0	0
215	07/22/2012 12:06	0.0	0.0	0.0	215	07/22/2012 12:06	0.0	0.0	0.0	0
216	07/22/2012 12:07	0.0	0.0	0.0	216	07/22/2012 12:07	0.0	0.0	0.0	0
217	07/22/2012 12:08	0.0	0.0	0.0	217	07/22/2012 12:08	0.0	0.0	0.0	0
218	07/22/2012 12:09	0.0	0.0	0.0	218	07/22/2012 12:09	0.0	0.0	0.0	0
219	07/22/2012 12:10	0.0	0.0	0.0	219	07/22/2012 12:10	0.0	0.0	0.0	0
220	07/22/2012 12:11	0.0	0.0	0.0	220	07/22/2012 12:11	0.0	0.0	0.0	0
221	07/22/2012 12:12	0.0	0.0	0.0	221	07/22/2012 12:12	0.0	0.0	0.0	0
222	07/22/2012 12:13	0.0	0.0	0.0	222	07/22/2012 12:13	0.0	0.0	0.0	0
223	07/22/2012 12:14	0.0	0.0	0.0	223	07/22/2012 12:14	0.0	0.0	0.0	0
224	07/22/2012 12:15	0.0	0.0	0.0	224	07/22/2012 12:15	0.0	0.0	0.0	0

225	07/22/2012 12:16	0.0	0.0	0.0	225	07/22/2012 12:16	0.0	0.0	0.0	0
226	07/22/2012 12:17	0.0	0.0	0.0	226	07/22/2012 12:17	0.0	0.0	0.0	0
227	07/22/2012 12:18	0.0	0.0	0.0	227	07/22/2012 12:18	0.0	0.0	0.0	0
228	07/22/2012 12:19	0.0	0.0	0.0	228	07/22/2012 12:19	0.0	0.0	0.0	0
229	07/22/2012 12:20	0.0	0.0	0.0	229	07/22/2012 12:20	0.0	0.0	0.0	0
230	07/22/2012 12:21	0.0	0.0	0.0	230	07/22/2012 12:21	0.0	0.0	0.0	0
231	07/22/2012 12:22	0.0	0.0	0.0	231	07/22/2012 12:22	0.0	0.0	0.0	0
232	07/22/2012 12:23	0.0	0.0	0.0	232	07/22/2012 12:23	0.0	0.0	0.0	0
233	07/22/2012 12:24	0.0	0.0	0.0	233	07/22/2012 12:24	0.0	0.0	0.0	0
234	07/22/2012 12:25	0.0	0.0	0.0	234	07/22/2012 12:25	0.0	0.0	0.0	0
235	07/22/2012 12:26	0.0	0.0	0.0	235	07/22/2012 12:26	0.0	0.0	0.0	0
236	07/22/2012 12:27	0.0	0.0	0.0	236	07/22/2012 12:27	0.0	0.0	0.0	0
237	07/22/2012 12:28	0.0	0.0	0.0	237	07/22/2012 12:28	0.0	0.0	0.0	0
238	07/22/2012 12:29	0.0	0.0	0.0	238	07/22/2012 12:29	0.0	0.0	0.0	0
239	07/22/2012 12:30	0.0	0.0	0.0	239	07/22/2012 12:30	0.0	0.0	0.0	0
240	07/22/2012 12:31	0.0	0.0	0.0	240	07/22/2012 12:31	0.0	0.0	0.0	0
241	07/22/2012 12:32	0.0	0.0	0.0	241	07/22/2012 12:32	0.0	0.0	0.0	0
242	07/22/2012 12:33	0.0	0.0	0.0	242	07/22/2012 12:33	0.0	0.0	0.0	0
243	07/22/2012 12:34	0.0	0.0	0.0	243	07/22/2012 12:34	0.0	0.0	0.0	0
244	07/22/2012 12:35	0.0	0.0	0.0	244	07/22/2012 12:35	0.0	0.0	0.0	0
245	07/22/2012 12:36	0.0	0.0	0.0	245	07/22/2012 12:36	0.0	0.0	0.0	0
246	07/22/2012 12:37	0.0	0.0	0.0	246	07/22/2012 12:37	0.0	0.0	0.0	0
247	07/22/2012 12:38	0.0	0.0	0.0	247	07/22/2012 12:38	0.0	0.0	0.0	0
248	07/22/2012 12:39	0.0	0.0	0.0	248	07/22/2012 12:39	0.0	0.0	0.0	0
										0

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000145
Data Points: 482 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/23/2012 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	07/23/2012 07:56	0.4	0.5	0.6
2	07/23/2012 07:57	0.2	0.3	0.4
3	07/23/2012 07:58	0.1	0.1	0.3
4	07/23/2012 07:59	0.0	0.0	0.1
5	07/23/2012 08:00	0.0	0.0	0.1
6	07/23/2012 08:01	0.0	0.0	0.0
7	07/23/2012 08:02	0.0	0.0	0.0
8	07/23/2012 08:03	0.0	0.0	0.0
9	07/23/2012 08:04	0.0	0.0	0.0
10	07/23/2012 08:05	0.0	0.0	0.0
11	07/23/2012 08:06	0.0	0.0	0.0
12	07/23/2012 08:07	0.0	0.0	0.0
13	07/23/2012 08:08	0.0	0.0	0.0
14	07/23/2012 08:09	0.0	0.0	0.0
15	07/23/2012 08:10	0.0	0.0	0.0
16	07/23/2012 08:11	0.0	0.0	0.0
17	07/23/2012 08:12	0.0	0.0	0.0
18	07/23/2012 08:13	0.0	0.0	0.0
19	07/23/2012 08:14	0.0	0.0	0.0
20	07/23/2012 08:15	0.0	0.0	0.0
21	07/23/2012 08:16	0.0	0.0	0.0
22	07/23/2012 08:17	0.0	0.0	0.0
23	07/23/2012 08:18	0.0	0.0	0.0
24	07/23/2012 08:19	0.0	0.0	0.0
25	07/23/2012 08:20	0.0	0.0	0.0
26	07/23/2012 08:21	0.0	0.0	0.0
27	07/23/2012 08:22	0.0	0.0	0.0
28	07/23/2012 08:23	0.0	0.0	0.0
29	07/23/2012 08:24	0.0	0.0	0.0
30	07/23/2012 08:25	0.0	0.0	0.0
31	07/23/2012 08:26	0.0	0.0	0.0
32	07/23/2012 08:27	0.0	0.0	0.0
33	07/23/2012 08:28	0.0	0.0	0.0
34	07/23/2012 08:29	0.0	0.0	0.0
35	07/23/2012 08:30	0.0	0.0	0.0
36	07/23/2012 08:31	0.0	0.0	0.0
37	07/23/2012 08:32	0.0	0.0	0.0
38	07/23/2012 08:33	0.0	0.0	0.0
39	07/23/2012 08:34	0.0	0.0	0.0
40	07/23/2012 08:35	0.0	0.0	0.0
41	07/23/2012 08:36	0.0	0.0	0.0
42	07/23/2012 08:37	0.0	0.0	0.0
43	07/23/2012 08:38	0.0	0.0	0.0
44	07/23/2012 08:39	0.0	0.0	0.0
45	07/23/2012 08:40	0.0	0.0	0.0
46	07/23/2012 08:41	0.0	0.0	0.0
47	07/23/2012 08:42	0.0	0.0	0.0
48	07/23/2012 08:43	0.0	0.0	0.0
49	07/23/2012 08:44	0.0	0.0	0.0
50	07/23/2012 08:45	0.0	0.0	0.0
51	07/23/2012 08:46	0.0	0.0	0.0
52	07/23/2012 08:47	0.0	0.0	0.0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000145
Data Points: 482 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/23/2012 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Difference	Comments
1	07/23/2012 07:56	0.4	0.5	0.6	7	units calibrated and turned on
2	07/23/2012 07:57	0.2	0.3	0.4	0	
3	07/23/2012 07:58	0.1	0.1	0.3	0	
4	07/23/2012 07:59	0.0	0.0	0.1	0	
5	07/23/2012 08:00	0.0	0.0	0.1	0	
6	07/23/2012 08:01	0.0	0.0	0.0	0	
7	07/23/2012 08:02	0.0	0.0	0.0	0	
8	07/23/2012 08:03	0.0	0.0	0.0	0	
9	07/23/2012 08:04	0.0	0.0	0.0	0	
10	07/23/2012 08:05	0.0	0.0	0.0	0	
11	07/23/2012 08:06	0.0	0.0	0.0	0	
12	07/23/2012 08:07	0.0	0.0	0.0	0	
13	07/23/2012 08:08	0.0	0.0	0.0	0	
14	07/23/2012 08:09	0.0	0.0	0.0	0	
15	07/23/2012 08:10	0.0	0.0	0.0	0	
16	07/23/2012 08:11	0.0	0.0	0.0	0	
17	07/23/2012 08:12	0.0	0.0	0.0	0	
18	07/23/2012 08:13	0.0	0.0	0.0	0	
19	07/23/2012 08:14	0.0	0.0	0.0	0	
20	07/23/2012 08:15	0.0	0.0	0.0	0	
21	07/23/2012 08:16	0.0	0.0	0.0	0	
22	07/23/2012 08:17	0.0	0.0	0.0	0	
23	07/23/2012 08:18	0.0	0.0	0.0	0	
24	07/23/2012 08:19	0.0	0.0	0.0	0	
25	07/23/2012 08:20	0.0	0.0	0.0	0	
26	07/23/2012 08:21	0.0	0.0	0.0	0	
27	07/23/2012 08:22	0.0	0.0	0.0	0	
28	07/23/2012 08:23	0.0	0.0	0.0	0	
29	07/23/2012 08:24	0.0	0.0	0.0	0	
30	07/23/2012 08:25	0.0	0.0	0.0	0	
31	07/23/2012 08:26	0.0	0.0	0.0	0	
32	07/23/2012 08:27	0.0	0.0	0.0	0	
33	07/23/2012 08:28	0.0	0.0	0.0	0	
34	07/23/2012 08:29	0.0	0.0	0.0	0	
35	07/23/2012 08:30	0.0	0.0	0.0	0	
36	07/23/2012 08:31	0.0	0.0	0.0	0	
37	07/23/2012 08:32	0.0	0.0	0.0	0	
38	07/23/2012 08:33	0.0	0.0	0.0	0	
39	07/23/2012 08:34	0.0	0.0	0.0	0	
40	07/23/2012 08:35	0.0	0.0	0.0	0	
41	07/23/2012 08:36	0.0	0.0	0.0	0	
42	07/23/2012 08:37	0.0	0.0	0.0	0	
43	07/23/2012 08:38	0.0	0.0	0.0	0	
44	07/23/2012 08:39	0.0	0.0	0.0	0	
45	07/23/2012 08:40	0.0	0.0	0.0	0	
46	07/23/2012 08:41	0.0	0.0	0.0	0	
47	07/23/2012 08:42	0.0	0.0	0.0	0	
48	07/23/2012 08:43	0.0	0.0	0.0	0	
49	07/23/2012 08:44	0.0	0.0	0.0	0	
50	07/23/2012 08:45	0.0	0.0	0.0	0	
51	07/23/2012 08:46	0.0	0.0	0.0	0	
52	07/23/2012 08:47	0.0	0.0	0.0	0	

53	07/23/2012 08:48	0.0	0.0	0.0	53	07/23/2012 08:48	0.0	0.0	0.0	0
54	07/23/2012 08:49	0.0	0.0	0.4	54	07/23/2012 08:49	0.0	0.0	0.4	0
55	07/23/2012 08:50	0.0	0.0	0.0	55	07/23/2012 08:50	0.0	0.0	0.0	0
56	07/23/2012 08:51	0.0	0.0	0.0	56	07/23/2012 08:51	0.0	0.0	0.0	0
57	07/23/2012 08:52	0.0	0.0	0.0	57	07/23/2012 08:52	0.0	0.0	0.0	0
58	07/23/2012 08:53	0.0	0.0	0.0	58	07/23/2012 08:53	0.0	0.0	0.0	0
59	07/23/2012 08:54	0.0	0.0	0.0	59	07/23/2012 08:54	0.0	0.0	0.0	0
60	07/23/2012 08:55	0.0	0.0	0.0	60	07/23/2012 08:55	0.0	0.0	0.0	0
61	07/23/2012 08:56	0.0	0.0	0.0	61	07/23/2012 08:56	0.0	0.0	0.0	0
62	07/23/2012 08:57	0.0	0.0	0.0	62	07/23/2012 08:57	0.0	0.0	0.0	0
63	07/23/2012 08:58	0.0	0.0	0.1	63	07/23/2012 08:58	0.0	0.0	0.1	0
64	07/23/2012 08:59	0.0	0.0	0.0	64	07/23/2012 08:59	0.0	0.0	0.0	0
65	07/23/2012 09:00	0.0	0.0	0.2	65	07/23/2012 09:00	0.0	0.0	0.2	0
66	07/23/2012 09:01	0.0	0.0	0.0	66	07/23/2012 09:01	0.0	0.0	0.0	0
67	07/23/2012 09:02	0.0	0.0	0.0	67	07/23/2012 09:02	0.0	0.0	0.0	0
68	07/23/2012 09:03	0.0	0.0	0.0	68	07/23/2012 09:03	0.0	0.0	0.0	0
69	07/23/2012 09:04	0.0	0.0	0.0	69	07/23/2012 09:04	0.0	0.0	0.0	0
70	07/23/2012 09:05	0.0	0.0	0.0	70	07/23/2012 09:05	0.0	0.0	0.0	0
71	07/23/2012 09:06	0.0	0.0	0.1	71	07/23/2012 09:06	0.0	0.0	0.1	0
72	07/23/2012 09:07	0.0	0.0	0.2	72	07/23/2012 09:07	0.0	0.0	0.2	0
73	07/23/2012 09:08	0.0	0.0	0.0	73	07/23/2012 09:08	0.0	0.0	0.0	0
74	07/23/2012 09:09	0.0	0.0	0.0	74	07/23/2012 09:09	0.0	0.0	0.0	0
75	07/23/2012 09:10	0.0	0.0	0.0	75	07/23/2012 09:10	0.0	0.0	0.0	0
76	07/23/2012 09:11	0.0	0.0	0.0	76	07/23/2012 09:11	0.0	0.0	0.0	0
77	07/23/2012 09:12	0.0	0.0	0.0	77	07/23/2012 09:12	0.0	0.0	0.0	0
78	07/23/2012 09:13	0.0	0.0	0.0	78	07/23/2012 09:13	0.0	0.0	0.0	0
79	07/23/2012 09:14	0.0	0.0	0.0	79	07/23/2012 09:14	0.0	0.0	0.0	0
80	07/23/2012 09:15	0.0	0.0	0.0	80	07/23/2012 09:15	0.0	0.0	0.0	0
81	07/23/2012 09:16	0.0	0.0	0.0	81	07/23/2012 09:16	0.0	0.0	0.0	0
82	07/23/2012 09:17	0.0	0.0	0.0	82	07/23/2012 09:17	0.0	0.0	0.0	0
83	07/23/2012 09:18	0.0	0.0	0.0	83	07/23/2012 09:18	0.0	0.0	0.0	0
84	07/23/2012 09:19	0.0	0.0	0.0	84	07/23/2012 09:19	0.0	0.0	0.0	0
85	07/23/2012 09:20	0.0	0.0	0.0	85	07/23/2012 09:20	0.0	0.0	0.0	0
86	07/23/2012 09:21	0.0	0.0	0.0	86	07/23/2012 09:21	0.0	0.0	0.0	0
87	07/23/2012 09:22	0.0	0.0	0.0	87	07/23/2012 09:22	0.0	0.0	0.0	0
88	07/23/2012 09:23	0.0	0.0	0.0	88	07/23/2012 09:23	0.0	0.0	0.0	0
89	07/23/2012 09:24	0.0	0.0	0.0	89	07/23/2012 09:24	0.0	0.0	0.0	0
90	07/23/2012 09:25	0.0	0.0	0.0	90	07/23/2012 09:25	0.0	0.0	0.0	0
91	07/23/2012 09:26	0.0	0.0	0.0	91	07/23/2012 09:26	0.0	0.0	0.0	0
92	07/23/2012 09:27	0.0	0.0	0.0	92	07/23/2012 09:27	0.0	0.0	0.0	0
93	07/23/2012 09:28	0.0	0.0	0.0	93	07/23/2012 09:28	0.0	0.0	0.0	0
94	07/23/2012 09:29	0.0	0.0	0.0	94	07/23/2012 09:29	0.0	0.0	0.0	0
95	07/23/2012 09:30	0.0	0.0	0.0	95	07/23/2012 09:30	0.0	0.0	0.0	0
96	07/23/2012 09:31	0.0	0.0	0.0	96	07/23/2012 09:31	0.0	0.0	0.0	0
97	07/23/2012 09:32	0.0	0.0	0.0	97	07/23/2012 09:32	0.0	0.0	0.0	0
98	07/23/2012 09:33	0.0	0.0	0.0	98	07/23/2012 09:33	0.0	0.0	0.0	0
99	07/23/2012 09:34	0.0	0.0	0.0	99	07/23/2012 09:34	0.0	0.0	0.0	0
100	07/23/2012 09:35	0.0	0.0	0.0	100	07/23/2012 09:35	0.0	0.0	0.0	0
101	07/23/2012 09:36	0.0	0.0	0.0	101	07/23/2012 09:36	0.0	0.0	0.0	0
102	07/23/2012 09:37	0.0	0.0	0.0	102	07/23/2012 09:37	0.0	0.0	0.0	0
103	07/23/2012 09:38	0.0	0.0	0.0	103	07/23/2012 09:38	0.0	0.0	0.0	0
104	07/23/2012 09:39	0.0	0.0	0.0	104	07/23/2012 09:39	0.0	0.0	0.0	0
105	07/23/2012 09:40	0.0	0.0	0.0	105	07/23/2012 09:40	0.0	0.0	0.0	0
106	07/23/2012 09:41	0.0	0.0	0.0	106	07/23/2012 09:41	0.0	0.0	0.0	0
107	07/23/2012 09:42	0.0	0.0	0.0	107	07/23/2012 09:42	0.0	0.0	0.0	0
108	07/23/2012 09:43	0.0	0.0	0.0	108	07/23/2012 09:43	0.0	0.0	0.0	0
109	07/23/2012 09:44	0.0	0.0	0.0	109	07/23/2012 09:44	0.0	0.0	0.0	0
110	07/23/2012 09:45	0.0	0.0	0.0	110	07/23/2012 09:45	0.0	0.0	0.0	0
111	07/23/2012 09:46	0.0	0.0	0.0	111	07/23/2012 09:46	0.0	0.0	0.0	0
112	07/23/2012 09:47	0.0	0.0	0.0	112	07/23/2012 09:47	0.0	0.0	0.0	0
113	07/23/2012 09:48	0.0	0.0	0.0	113	07/23/2012 09:48	0.0	0.0	0.0	0
114	07/23/2012 09:49	0.0	0.0	0.0	114	07/23/2012 09:49	0.0	0.0	0.0	0
115	07/23/2012 09:50	0.0	0.0	0.0	115	07/23/2012 09:50	0.0	0.0	0.0	0
116	07/23/2012 09:51	0.0	0.0	0.0	116	07/23/2012 09:51	0.0	0.0	0.0	0

117	07/23/2012 09:52	0.0	0.0	0.0	117	07/23/2012 09:52	0.0	0.0	0.0	0
118	07/23/2012 09:53	0.0	0.0	0.0	118	07/23/2012 09:53	0.0	0.0	0.0	0
119	07/23/2012 09:54	0.0	0.0	0.0	119	07/23/2012 09:54	0.0	0.0	0.0	0
120	07/23/2012 09:55	0.0	0.0	0.0	120	07/23/2012 09:55	0.0	0.0	0.0	0
121	07/23/2012 09:56	0.0	0.0	0.7	121	07/23/2012 09:56	0.0	0.0	0.7	0
122	07/23/2012 09:57	0.0	0.0	0.4	122	07/23/2012 09:57	0.0	0.0	0.4	0
123	07/23/2012 09:58	0.0	0.0	0.0	123	07/23/2012 09:58	0.0	0.0	0.0	0
124	07/23/2012 09:59	0.0	0.0	0.0	124	07/23/2012 09:59	0.0	0.0	0.0	0
125	07/23/2012 10:00	0.0	0.0	0.2	125	07/23/2012 10:00	0.0	0.0	0.2	0
126	07/23/2012 10:01	0.0	0.0	0.1	126	07/23/2012 10:01	0.0	0.0	0.1	0
127	07/23/2012 10:02	0.0	0.0	0.0	127	07/23/2012 10:02	0.0	0.0	0.0	0
128	07/23/2012 10:03	0.0	0.0	0.0	128	07/23/2012 10:03	0.0	0.0	0.0	0
129	07/23/2012 10:04	0.0	0.0	0.0	129	07/23/2012 10:04	0.0	0.0	0.0	0
130	07/23/2012 10:05	0.0	0.0	0.0	130	07/23/2012 10:05	0.0	0.0	0.0	0
131	07/23/2012 10:06	0.0	0.0	0.0	131	07/23/2012 10:06	0.0	0.0	0.0	0
132	07/23/2012 10:07	0.0	0.0	0.0	132	07/23/2012 10:07	0.0	0.0	0.0	0
133	07/23/2012 10:08	0.0	0.0	0.0	133	07/23/2012 10:08	0.0	0.0	0.0	0
134	07/23/2012 10:09	0.0	0.0	0.0	134	07/23/2012 10:09	0.0	0.0	0.0	0
135	07/23/2012 10:10	0.0	0.0	0.0	135	07/23/2012 10:10	0.0	0.0	0.0	0
136	07/23/2012 10:11	0.0	0.0	0.0	136	07/23/2012 10:11	0.0	0.0	0.0	0
137	07/23/2012 10:12	0.0	0.0	0.0	137	07/23/2012 10:12	0.0	0.0	0.0	0
138	07/23/2012 10:13	0.0	0.0	0.0	138	07/23/2012 10:13	0.0	0.0	0.0	0
139	07/23/2012 10:14	0.0	0.0	0.0	139	07/23/2012 10:14	0.0	0.0	0.0	0
140	07/23/2012 10:15	0.0	0.0	0.0	140	07/23/2012 10:15	0.0	0.0	0.0	0 jack hammering
141	07/23/2012 10:16	0.0	0.0	0.0	141	07/23/2012 10:16	0.0	0.0	0.0	0 jack hammering
142	07/23/2012 10:17	0.0	0.0	0.0	142	07/23/2012 10:17	0.0	0.0	0.0	0 jack hammering
143	07/23/2012 10:18	0.0	0.0	0.0	143	07/23/2012 10:18	0.0	0.0	0.0	0 jack hammering
144	07/23/2012 10:19	0.0	0.0	0.0	144	07/23/2012 10:19	0.0	0.0	0.0	0 jack hammering
145	07/23/2012 10:20	0.0	0.0	0.2	145	07/23/2012 10:20	0.0	0.0	0.2	0 jack hammering
146	07/23/2012 10:21	0.0	0.0	0.0	146	07/23/2012 10:21	0.0	0.0	0.0	0 jack hammering
147	07/23/2012 10:22	0.0	0.0	0.0	147	07/23/2012 10:22	0.0	0.0	0.0	0 jack hammering
148	07/23/2012 10:23	0.0	0.0	0.0	148	07/23/2012 10:23	0.0	0.0	0.0	0 jack hammering
149	07/23/2012 10:24	0.0	0.0	0.0	149	07/23/2012 10:24	0.0	0.0	0.0	0 jack hammering
150	07/23/2012 10:25	0.0	0.0	0.0	150	07/23/2012 10:25	0.0	0.0	0.0	0 jack hammering
151	07/23/2012 10:26	0.0	0.0	0.0	151	07/23/2012 10:26	0.0	0.0	0.0	0 jack hammering
152	07/23/2012 10:27	0.0	0.0	0.0	152	07/23/2012 10:27	0.0	0.0	0.0	0 jack hammering
153	07/23/2012 10:28	0.0	0.0	0.0	153	07/23/2012 10:28	0.0	0.0	0.0	0 jack hammering
154	07/23/2012 10:29	0.0	0.0	0.0	154	07/23/2012 10:29	0.0	0.0	0.0	0 jack hammering
155	07/23/2012 10:30	0.0	0.0	0.0	155	07/23/2012 10:30	0.0	0.0	0.0	0 jack hammering
156	07/23/2012 10:31	0.0	0.0	0.0	156	07/23/2012 10:31	0.0	0.0	0.0	0 jack hammering
157	07/23/2012 10:32	0.0	0.0	0.0	157	07/23/2012 10:32	0.0	0.0	0.0	0 jack hammering
158	07/23/2012 10:33	0.0	0.0	0.0	158	07/23/2012 10:33	0.0	0.0	0.0	0 jack hammering
159	07/23/2012 10:34	0.0	0.0	0.0	159	07/23/2012 10:34	0.0	0.0	0.0	0 jack hammering
160	07/23/2012 10:35	0.0	0.0	0.0	160	07/23/2012 10:35	0.0	0.0	0.0	0 jack hammering
161	07/23/2012 10:36	0.0	0.0	0.0	161	07/23/2012 10:36	0.0	0.0	0.0	0 jack hammering
162	07/23/2012 10:37	0.0	0.0	0.0	162	07/23/2012 10:37	0.0	0.0	0.0	0 jack hammering
163	07/23/2012 10:38	0.0	0.0	0.0	163	07/23/2012 10:38	0.0	0.0	0.0	0 jack hammering
164	07/23/2012 10:39	0.0	0.0	0.0	164	07/23/2012 10:39	0.0	0.0	0.0	0 jack hammering
165	07/23/2012 10:40	0.0	0.0	0.0	165	07/23/2012 10:40	0.0	0.0	0.0	0 jack hammering
166	07/23/2012 10:41	0.0	0.0	0.0	166	07/23/2012 10:41	0.0	0.0	0.0	0 jack hammering
167	07/23/2012 10:42	0.0	0.0	0.0	167	07/23/2012 10:42	0.0	0.0	0.0	0 jack hammering
168	07/23/2012 10:43	0.0	0.0	0.0	168	07/23/2012 10:43	0.0	0.0	0.0	0 jack hammering
169	07/23/2012 10:44	0.0	0.0	0.0	169	07/23/2012 10:44	0.0	0.0	0.0	0 jack hammering
170	07/23/2012 10:45	0.0	0.0	0.0	170	07/23/2012 10:45	0.0	0.0	0.0	0 jack hammering
171	07/23/2012 10:46	0.0	0.0	0.0	171	07/23/2012 10:46	0.0	0.0	0.0	0 jack hammering
172	07/23/2012 10:47	0.0	0.0	0.0	172	07/23/2012 10:47	0.0	0.0	0.0	0 jack hammering
173	07/23/2012 10:48	0.0	0.0	0.0	173	07/23/2012 10:48	0.0	0.0	0.0	0 drilling to break through concrete and rebar
174	07/23/2012 10:49	0.0	0.0	0.0	174	07/23/2012 10:49	0.0	0.0	0.0	0 drilling to break through concrete and rebar
175	07/23/2012 10:50	0.0	0.0	0.0	175	07/23/2012 10:50	0.0	0.0	0.0	0 drilling to break through concrete and rebar
176	07/23/2012 10:51	0.0	0.0	0.0	176	07/23/2012 10:51	0.0	0.0	0.0	0 drilling to break through concrete and rebar
177	07/23/2012 10:52	0.0	0.0	0.0	177	07/23/2012 10:52	0.0	0.0	0.0	0 drilling to break through concrete and rebar
178	07/23/2012 10:53	0.0	0.0	0.0	178	07/23/2012 10:53	0.0	0.0	0.0	0 drilling to break through concrete and rebar
179	07/23/2012 10:54	0.0	0.0	0.0	179	07/23/2012 10:54	0.0	0.0	0.0	0 drilling to break through concrete and rebar
180	07/23/2012 10:55	0.0	0.0	0.0	180	07/23/2012 10:55	0.0	0.0	0.0	0 drilling to break through concrete and rebar

181	07/23/2012 10:56	0.0	0.0	0.0	181	07/23/2012 10:56	0.0	0.0	0.0	0 drilling to break through concrete and rebar
182	07/23/2012 10:57	0.0	0.0	0.0	182	07/23/2012 10:57	0.0	0.0	0.0	0 drilling to break through concrete and rebar
183	07/23/2012 10:58	0.0	0.0	0.0	183	07/23/2012 10:58	0.0	0.0	0.0	0 drilling to break through concrete and rebar
184	07/23/2012 10:59	0.0	0.0	0.0	184	07/23/2012 10:59	0.0	0.0	0.0	0 drilling to break through concrete and rebar
185	07/23/2012 11:00	0.0	0.0	0.0	185	07/23/2012 11:00	0.0	0.0	0.0	0 drilling to break through concrete and rebar
186	07/23/2012 11:01	0.0	0.0	0.0	186	07/23/2012 11:01	0.0	0.0	0.0	0 drilling to break through concrete and rebar
187	07/23/2012 11:02	0.0	0.0	0.0	187	07/23/2012 11:02	0.0	0.0	0.0	0 drilling to break through concrete and rebar
188	07/23/2012 11:03	0.0	0.0	0.0	188	07/23/2012 11:03	0.0	0.0	0.0	0 drilling to break through concrete and rebar
189	07/23/2012 11:04	0.0	0.0	0.0	189	07/23/2012 11:04	0.0	0.0	0.0	0 drilling to break through concrete and rebar
190	07/23/2012 11:05	0.0	0.0	0.0	190	07/23/2012 11:05	0.0	0.0	0.0	0 drilling to break through concrete and rebar
191	07/23/2012 11:06	0.0	0.0	0.0	191	07/23/2012 11:06	0.0	0.0	0.0	0 drilling to break through concrete and rebar
192	07/23/2012 11:07	0.0	0.0	0.0	192	07/23/2012 11:07	0.0	0.0	0.0	0 drilling to break through concrete and rebar
193	07/23/2012 11:08	0.0	0.0	0.0	193	07/23/2012 11:08	0.0	0.0	0.0	0 drilling to break through concrete and rebar
194	07/23/2012 11:09	0.0	0.0	0.0	194	07/23/2012 11:09	0.0	0.0	0.0	0 drilling to break through concrete and rebar
195	07/23/2012 11:10	0.0	0.0	0.0	195	07/23/2012 11:10	0.0	0.0	0.0	0 drilling to break through concrete and rebar
196	07/23/2012 11:11	0.0	0.0	0.0	196	07/23/2012 11:11	0.0	0.0	0.0	0 drilling to break through concrete and rebar
197	07/23/2012 11:12	0.0	0.0	0.0	197	07/23/2012 11:12	0.0	0.0	0.0	0 drilling to break through concrete and rebar
198	07/23/2012 11:13	0.0	0.0	0.0	198	07/23/2012 11:13	0.0	0.0	0.0	0 drilling to break through concrete and rebar
199	07/23/2012 11:14	0.0	0.0	0.0	199	07/23/2012 11:14	0.0	0.0	0.0	0 drilling to break through concrete and rebar
200	07/23/2012 11:15	0.0	0.0	0.0	200	07/23/2012 11:15	0.0	0.0	0.0	0 drilling to break through concrete and rebar
201	07/23/2012 11:16	0.0	0.0	0.0	201	07/23/2012 11:16	0.0	0.0	0.0	0 drilling to break through concrete and rebar
202	07/23/2012 11:17	0.0	0.0	0.0	202	07/23/2012 11:17	0.0	0.0	0.0	0 drilling to break through concrete and rebar
203	07/23/2012 11:18	0.0	0.0	0.0	203	07/23/2012 11:18	0.0	0.0	0.0	0 drilling to break through concrete and rebar
204	07/23/2012 11:19	0.0	0.0	0.0	204	07/23/2012 11:19	0.0	0.0	0.0	0 drilling to break through concrete and rebar
205	07/23/2012 11:20	0.0	0.0	0.0	205	07/23/2012 11:20	0.0	0.0	0.0	0 drilling to break through concrete and rebar
206	07/23/2012 11:21	0.0	0.0	0.0	206	07/23/2012 11:21	0.0	0.0	0.0	0 drilling to break through concrete and rebar
207	07/23/2012 11:22	0.0	0.0	0.0	207	07/23/2012 11:22	0.0	0.0	0.0	0 drilling to break through concrete and rebar
208	07/23/2012 11:23	0.0	0.0	0.0	208	07/23/2012 11:23	0.0	0.0	0.0	0 drilling to break through concrete and rebar
209	07/23/2012 11:24	0.0	0.0	0.0	209	07/23/2012 11:24	0.0	0.0	0.0	0 drilling to break through concrete and rebar
210	07/23/2012 11:25	0.0	0.0	0.0	210	07/23/2012 11:25	0.0	0.0	0.0	0 jack hammering
211	07/23/2012 11:26	0.0	0.0	0.0	211	07/23/2012 11:26	0.0	0.0	0.0	0 jack hammering
212	07/23/2012 11:27	0.0	0.0	0.0	212	07/23/2012 11:27	0.0	0.0	0.0	0 jack hammering
213	07/23/2012 11:28	0.0	0.0	0.0	213	07/23/2012 11:28	0.0	0.0	0.0	0 jack hammering
214	07/23/2012 11:29	0.0	0.0	0.0	214	07/23/2012 11:29	0.0	0.0	0.0	0 jack hammering
215	07/23/2012 11:30	0.0	0.0	0.0	215	07/23/2012 11:30	0.0	0.0	0.0	0 jack hammering
216	07/23/2012 11:31	0.0	0.0	0.0	216	07/23/2012 11:31	0.0	0.0	0.0	0 jack hammering
217	07/23/2012 11:32	0.0	0.0	0.0	217	07/23/2012 11:32	0.0	0.0	0.0	0 jack hammering
218	07/23/2012 11:33	0.0	0.0	0.0	218	07/23/2012 11:33	0.0	0.0	0.0	0 jack hammering
219	07/23/2012 11:34	0.0	0.0	0.0	219	07/23/2012 11:34	0.0	0.0	0.0	0 jack hammering
220	07/23/2012 11:35	0.0	0.0	0.0	220	07/23/2012 11:35	0.0	0.0	0.0	0 jack hammering
221	07/23/2012 11:36	0.0	0.0	0.0	221	07/23/2012 11:36	0.0	0.0	0.0	0 jack hammering
222	07/23/2012 11:37	0.0	0.0	0.0	222	07/23/2012 11:37	0.0	0.0	0.0	0 jack hammering
223	07/23/2012 11:38	0.0	0.0	0.0	223	07/23/2012 11:38	0.0	0.0	0.0	0 jack hammering
224	07/23/2012 11:39	0.0	0.0	0.0	224	07/23/2012 11:39	0.0	0.0	0.0	0 jack hammering
225	07/23/2012 11:40	0.0	0.0	0.0	225	07/23/2012 11:40	0.0	0.0	0.0	0 vaccing for pre-clearance
226	07/23/2012 11:41	0.0	0.0	0.0	226	07/23/2012 11:41	0.0	0.0	0.0	0 vaccing for pre-clearance
227	07/23/2012 11:42	0.0	0.0	0.0	227	07/23/2012 11:42	0.0	0.0	0.0	0 vaccing for pre-clearance
228	07/23/2012 11:43	0.0	0.0	0.0	228	07/23/2012 11:43	0.0	0.0	0.0	0 vaccing for pre-clearance
229	07/23/2012 11:44	0.0	0.0	0.0	229	07/23/2012 11:44	0.0	0.0	0.0	0 vaccing for pre-clearance
230	07/23/2012 11:45	0.0	0.0	0.0	230	07/23/2012 11:45	0.0	0.0	0.0	0 vaccing for pre-clearance
231	07/23/2012 11:46	0.0	0.0	0.0	231	07/23/2012 11:46	0.0	0.0	0.0	0 vaccing for pre-clearance
232	07/23/2012 11:47	0.0	0.0	0.0	232	07/23/2012 11:47	0.0	0.0	0.0	0 vaccing for pre-clearance
233	07/23/2012 11:48	0.0	0.0	0.0	233	07/23/2012 11:48	0.0	0.0	0.0	0 vaccing for pre-clearance
234	07/23/2012 11:49	0.0	0.0	0.0	234	07/23/2012 11:49	0.0	0.0	0.0	0 vaccing for pre-clearance
235	07/23/2012 11:50	0.0	0.0	0.0	235	07/23/2012 11:50	0.0	0.0	0.0	0 vaccing for pre-clearance
236	07/23/2012 11:51	0.0	0.0	0.0	236	07/23/2012 11:51	0.0	0.0	0.0	0 vaccing for pre-clearance
237	07/23/2012 11:52	0.0	0.0	0.0	237	07/23/2012 11:52	0.0	0.0	0.0	0 vaccing for pre-clearance
238	07/23/2012 11:53	0.0	0.0	0.0	238	07/23/2012 11:53	0.0	0.0	0.0	0 vaccing for pre-clearance
239	07/23/2012 11:54	0.0	0.0	0.0	239	07/23/2012 11:54	0.0	0.0	0.0	0 vaccing for pre-clearance
240	07/23/2012 11:55	0.0	0.0	0.0	240	07/23/2012 11:55	0.0	0.0	0.0	0 vaccing for pre-clearance
241	07/23/2012 11:56	0.0	0.0	0.0	241	07/23/2012 11:56	0.0	0.0	0.0	0 vaccing for pre-clearance
242	07/23/2012 11:57	0.0	0.0	0.0	242	07/23/2012 11:57	0.0	0.0	0.0	0 vaccing for pre-clearance
243	07/23/2012 11:58	0.0	0.0	0.0	243	07/23/2012 11:58	0.0	0.0	0.0	0 vaccing for pre-clearance
244	07/23/2012 11:59	0.0	0.0	0.0	244	07/23/2012 11:59	0.0	0.0	0.0	0 vaccing for pre-clearance

245	07/23/2012 12:00	0.0	0.0	0.0	245	07/23/2012 12:00	0.0	0.0	0.0	0	vaccing for pre-clearance
246	07/23/2012 12:01	0.0	0.0	0.0	246	07/23/2012 12:01	0.0	0.0	0.0	0	vaccing for pre-clearance
247	07/23/2012 12:02	0.0	0.0	0.0	247	07/23/2012 12:02	0.0	0.0	0.0	0	vaccing for pre-clearance
248	07/23/2012 12:03	0.0	0.0	0.0	248	07/23/2012 12:03	0.0	0.0	0.0	0	vaccing for pre-clearance
249	07/23/2012 12:04	0.0	0.0	0.0	249	07/23/2012 12:04	0.0	0.0	0.0	0	vaccing for pre-clearance
250	07/23/2012 12:05	0.0	0.0	0.0	250	07/23/2012 12:05	0.0	0.0	0.0	0	vaccing for pre-clearance
251	07/23/2012 12:06	0.0	0.0	0.0	251	07/23/2012 12:06	0.0	0.0	0.0	0	vaccing for pre-clearance
252	07/23/2012 12:07	0.0	0.0	0.0	252	07/23/2012 12:07	0.0	0.0	0.0	0	vaccing for pre-clearance
253	07/23/2012 12:08	0.0	0.0	0.0	253	07/23/2012 12:08	0.0	0.0	0.0	0	vaccing for pre-clearance
254	07/23/2012 12:09	0.0	0.0	0.0	254	07/23/2012 12:09	0.0	0.0	0.0	0	vaccing for pre-clearance
255	07/23/2012 12:10	0.0	0.0	0.0	255	07/23/2012 12:10	0.0	0.0	0.0	0	vaccing for pre-clearance
256	07/23/2012 12:11	0.0	0.0	0.0	256	07/23/2012 12:11	0.0	0.0	0.0	0	vaccing for pre-clearance
257	07/23/2012 12:12	0.0	0.0	0.0	257	07/23/2012 12:12	0.0	0.0	0.0	0	vaccing for pre-clearance
258	07/23/2012 12:13	0.0	0.0	0.0	258	07/23/2012 12:13	0.0	0.0	0.0	0	vaccing for pre-clearance
259	07/23/2012 12:14	0.0	0.0	0.0	259	07/23/2012 12:14	0.0	0.0	0.0	0	vaccing for pre-clearance
260	07/23/2012 12:15	0.0	0.0	0.0	260	07/23/2012 12:15	0.0	0.0	0.0	0	vaccing for pre-clearance
261	07/23/2012 12:16	0.0	0.0	0.0	261	07/23/2012 12:16	0.0	0.0	0.0	0	vaccing for pre-clearance
262	07/23/2012 12:17	0.0	0.0	0.0	262	07/23/2012 12:17	0.0	0.0	0.0	0	vaccing for pre-clearance
263	07/23/2012 12:18	0.0	0.0	0.0	263	07/23/2012 12:18	0.0	0.0	0.0	0	vaccing for pre-clearance
264	07/23/2012 12:19	0.0	0.0	0.0	264	07/23/2012 12:19	0.0	0.0	0.0	0	vaccing for pre-clearance
265	07/23/2012 12:20	0.0	0.0	0.0	265	07/23/2012 12:20	0.0	0.0	0.0	0	vaccing for pre-clearance
266	07/23/2012 12:21	0.0	0.0	0.0	266	07/23/2012 12:21	0.0	0.0	0.0	0	vaccing for pre-clearance
267	07/23/2012 12:22	0.0	0.0	0.0	267	07/23/2012 12:22	0.0	0.0	0.0	0	vaccing for pre-clearance
268	07/23/2012 12:23	0.0	0.0	0.0	268	07/23/2012 12:23	0.0	0.0	0.0	0	vaccing for pre-clearance
269	07/23/2012 12:24	0.0	0.0	0.0	269	07/23/2012 12:24	0.0	0.0	0.0	0	vaccing for pre-clearance
270	07/23/2012 12:25	0.0	0.0	0.0	270	07/23/2012 12:25	0.0	0.0	0.0	0	vaccing for pre-clearance
271	07/23/2012 12:26	0.0	0.0	0.0	271	07/23/2012 12:26	0.0	0.0	0.0	0	vaccing for pre-clearance
272	07/23/2012 12:27	0.0	0.0	0.0	272	07/23/2012 12:27	0.0	0.0	0.0	0	vaccing for pre-clearance
273	07/23/2012 12:28	0.0	0.0	0.0	273	07/23/2012 12:28	0.0	0.0	0.0	0	vaccing for pre-clearance
274	07/23/2012 12:29	0.0	0.0	0.0	274	07/23/2012 12:29	0.0	0.0	0.0	0	vaccing for pre-clearance
275	07/23/2012 12:30	0.0	0.0	0.0	275	07/23/2012 12:30	0.0	0.0	0.0	0	vaccing for pre-clearance
276	07/23/2012 12:31	0.0	0.0	0.0	276	07/23/2012 12:31	0.0	0.0	0.0	0	vaccing for pre-clearance
277	07/23/2012 12:32	0.0	0.0	0.0	277	07/23/2012 12:32	0.0	0.0	0.0	0	vaccing for pre-clearance
278	07/23/2012 12:33	0.0	0.0	0.0	278	07/23/2012 12:33	0.0	0.0	0.0	0	vaccing for pre-clearance
279	07/23/2012 12:34	0.0	0.0	0.0	279	07/23/2012 12:34	0.0	0.0	0.0	0	vaccing for pre-clearance
280	07/23/2012 12:35	0.0	0.0	0.0	280	07/23/2012 12:35	0.0	0.0	0.0	0	vaccing for pre-clearance
281	07/23/2012 12:36	0.0	0.0	0.0	281	07/23/2012 12:36	0.0	0.0	0.0	0	vaccing for pre-clearance
282	07/23/2012 12:37	0.0	0.0	0.0	282	07/23/2012 12:37	0.0	0.0	0.0	0	vaccing for pre-clearance
283	07/23/2012 12:38	0.0	0.0	0.0	283	07/23/2012 12:38	0.0	0.0	0.0	0	vaccing for pre-clearance
284	07/23/2012 12:39	0.0	0.0	0.0	284	07/23/2012 12:39	0.0	0.0	0.0	0	vaccing for pre-clearance
285	07/23/2012 12:40	0.0	0.0	0.0	285	07/23/2012 12:40	0.0	0.0	0.0	0	vaccing for pre-clearance
286	07/23/2012 12:41	0.0	0.0	0.0	286	07/23/2012 12:41	0.0	0.0	0.0	0	vaccing for pre-clearance
287	07/23/2012 12:42	0.0	0.0	0.0	287	07/23/2012 12:42	0.0	0.0	0.0	0	vaccing for pre-clearance
288	07/23/2012 12:43	0.0	0.0	0.0	288	07/23/2012 12:43	0.0	0.0	0.0	0	vaccing for pre-clearance
289	07/23/2012 12:44	0.0	0.0	0.0	289	07/23/2012 12:44	0.0	0.0	0.0	0	vaccing for pre-clearance
290	07/23/2012 12:45	0.0	0.0	0.0	290	07/23/2012 12:45	0.0	0.0	0.0	0	vaccing for pre-clearance
291	07/23/2012 12:46	0.0	0.0	0.0	291	07/23/2012 12:46	0.0	0.0	0.0	0	vaccing for pre-clearance
292	07/23/2012 12:47	0.0	0.0	0.0	292	07/23/2012 12:47	0.0	0.0	0.0	0	vaccing for pre-clearance
293	07/23/2012 12:48	0.0	0.0	0.0	293	07/23/2012 12:48	0.0	0.0	0.0	0	vaccing for pre-clearance
294	07/23/2012 12:49	0.0	0.0	0.0	294	07/23/2012 12:49	0.0	0.0	0.0	0	vaccing for pre-clearance
295	07/23/2012 12:50	0.0	0.0	0.0	295	07/23/2012 12:50	0.0	0.0	0.0	0	vaccing for pre-clearance
296	07/23/2012 12:51	0.0	0.0	0.0	296	07/23/2012 12:51	0.0	0.0	0.0	0	vaccing for pre-clearance
297	07/23/2012 12:52	0.0	0.0	0.0	297	07/23/2012 12:52	0.0	0.0	0.0	0	vaccing for pre-clearance
298	07/23/2012 12:53	0.0	0.0	0.0	298	07/23/2012 12:53	0.0	0.0	0.0	0	vaccing for pre-clearance
299	07/23/2012 12:54	0.0	0.0	0.0	299	07/23/2012 12:54	0.0	0.0	0.0	0	vaccing for pre-clearance
300	07/23/2012 12:55	0.0	0.0	0.0	300	07/23/2012 12:55	0.0	0.0	0.0	0	vaccing for pre-clearance
301	07/23/2012 12:56	0.0	0.0	0.0	301	07/23/2012 12:56	0.0	0.0	0.0	0	vaccing for pre-clearance
302	07/23/2012 12:57	0.0	0.0	0.0	302	07/23/2012 12:57	0.0	0.0	0.0	0	vaccing for pre-clearance
303	07/23/2012 12:58	0.0	0.0	0.0	303	07/23/2012 12:58	0.0	0.0	0.0	0	vaccing for pre-clearance
304	07/23/2012 12:59	0.0	0.0	0.0	304	07/23/2012 12:59	0.0	0.0	0.0	0	vaccing for pre-clearance
305	07/23/2012 13:00	0.0	0.0	0.0	305	07/23/2012 13:00	0.0	0.0	0.0	0	vaccing for pre-clearance
306	07/23/2012 13:01	0.0	0.0	0.0	306	07/23/2012 13:01	0.0	0.0	0.0	0	vaccing for pre-clearance
307	07/23/2012 13:02	0.0	0.0	0.0	307	07/23/2012 13:02	0.0	0.0	0.0	0	vaccing for pre-clearance
308	07/23/2012 13:03	0.0	0.0	0.0	308	07/23/2012 13:03	0.0	0.0	0.0	0	vaccing for pre-clearance

309	07/23/2012 13:04	0.0	0.0	0.0	309	07/23/2012 13:04	0.0	0.0	0.0	0	vaccing for pre-clearance
310	07/23/2012 13:05	0.0	0.0	0.0	310	07/23/2012 13:05	0.0	0.0	0.0	0	vaccing for pre-clearance
311	07/23/2012 13:06	0.0	0.0	0.0	311	07/23/2012 13:06	0.0	0.0	0.0	0	vaccing for pre-clearance
312	07/23/2012 13:07	0.0	0.0	0.0	312	07/23/2012 13:07	0.0	0.0	0.0	0	vaccing for pre-clearance
313	07/23/2012 13:08	0.0	0.0	0.0	313	07/23/2012 13:08	0.0	0.0	0.0	0	vaccing for pre-clearance
314	07/23/2012 13:09	0.0	0.0	0.0	314	07/23/2012 13:09	0.0	0.0	0.0	0	vaccing for pre-clearance
315	07/23/2012 13:10	0.0	0.0	0.0	315	07/23/2012 13:10	0.0	0.0	0.0	0	vaccing for pre-clearance
316	07/23/2012 13:11	0.0	0.0	0.0	316	07/23/2012 13:11	0.0	0.0	0.0	0	vaccing for pre-clearance
317	07/23/2012 13:12	0.0	0.0	0.0	317	07/23/2012 13:12	0.0	0.0	0.0	0	vaccing for pre-clearance
318	07/23/2012 13:13	0.0	0.0	0.0	318	07/23/2012 13:13	0.0	0.0	0.0	0	vaccing for pre-clearance
319	07/23/2012 13:14	0.0	0.0	0.0	319	07/23/2012 13:14	0.0	0.0	0.0	0	vaccing for pre-clearance
320	07/23/2012 13:15	0.0	0.0	0.0	320	07/23/2012 13:15	0.0	0.0	0.0	0	vaccing for pre-clearance
321	07/23/2012 13:16	0.0	0.0	0.0	321	07/23/2012 13:16	0.0	0.0	0.0	0	vaccing for pre-clearance
322	07/23/2012 13:17	0.0	0.0	0.0	322	07/23/2012 13:17	0.0	0.0	0.0	0	vaccing for pre-clearance
323	07/23/2012 13:18	0.0	0.0	0.0	323	07/23/2012 13:18	0.0	0.0	0.0	0	vaccing for pre-clearance
324	07/23/2012 13:19	0.0	0.0	0.0	324	07/23/2012 13:19	0.0	0.0	0.0	0	vaccing for pre-clearance
325	07/23/2012 13:20	0.0	0.0	0.0	325	07/23/2012 13:20	0.0	0.0	0.0	0	vaccing for pre-clearance
326	07/23/2012 13:21	0.0	0.0	0.0	326	07/23/2012 13:21	0.0	0.0	0.0	0	vaccing for pre-clearance
327	07/23/2012 13:22	0.0	0.0	0.0	327	07/23/2012 13:22	0.0	0.0	0.0	0	vaccing for pre-clearance
328	07/23/2012 13:23	0.0	0.0	0.0	328	07/23/2012 13:23	0.0	0.0	0.0	0	vaccing for pre-clearance
329	07/23/2012 13:24	0.0	0.0	0.0	329	07/23/2012 13:24	0.0	0.0	0.0	0	vaccing for pre-clearance
330	07/23/2012 13:25	0.0	0.0	0.0	330	07/23/2012 13:25	0.0	0.0	0.0	0	vaccing for pre-clearance
331	07/23/2012 13:26	0.0	0.0	0.0	331	07/23/2012 13:26	0.0	0.0	0.0	0	vaccing for pre-clearance
332	07/23/2012 13:27	0.0	0.0	0.0	332	07/23/2012 13:27	0.0	0.0	0.0	0	vaccing for pre-clearance
333	07/23/2012 13:28	0.0	0.0	0.0	333	07/23/2012 13:28	0.0	0.0	0.0	0	vaccing for pre-clearance
334	07/23/2012 13:29	0.0	0.0	0.0	334	07/23/2012 13:29	0.0	0.0	0.0	0	vaccing for pre-clearance
335	07/23/2012 13:30	0.0	0.0	0.0	335	07/23/2012 13:30	0.0	0.0	0.0	0	vaccing for pre-clearance
336	07/23/2012 13:31	0.0	0.0	0.0	336	07/23/2012 13:31	0.0	0.0	0.0	0	vaccing for pre-clearance
337	07/23/2012 13:32	0.0	0.0	0.0	337	07/23/2012 13:32	0.0	0.0	0.0	0	vaccing for pre-clearance
338	07/23/2012 13:33	0.0	0.0	0.0	338	07/23/2012 13:33	0.0	0.0	0.0	0	vaccing for pre-clearance
339	07/23/2012 13:34	0.0	0.0	0.0	339	07/23/2012 13:34	0.0	0.0	0.0	0	vaccing for pre-clearance
340	07/23/2012 13:35	0.0	0.0	0.0	340	07/23/2012 13:35	0.0	0.0	0.0	0	vaccing for pre-clearance
341	07/23/2012 13:36	0.0	0.0	0.0	341	07/23/2012 13:36	0.0	0.0	0.0	0	vaccing for pre-clearance
342	07/23/2012 13:37	0.0	0.0	0.0	342	07/23/2012 13:37	0.0	0.0	0.0	0	vaccing for pre-clearance
343	07/23/2012 13:38	0.0	0.0	0.0	343	07/23/2012 13:38	0.0	0.0	0.0	0	vaccing for pre-clearance
344	07/23/2012 13:39	0.0	0.0	0.0	344	07/23/2012 13:39	0.0	0.0	0.0	0	vaccing for pre-clearance
345	07/23/2012 13:40	0.0	0.0	0.0	345	07/23/2012 13:40	0.0	0.0	0.0	0	vaccing for pre-clearance
346	07/23/2012 13:41	0.0	0.0	0.0	346	07/23/2012 13:41	0.0	0.0	0.0	0	vaccing for pre-clearance
347	07/23/2012 13:42	0.0	0.0	0.0	347	07/23/2012 13:42	0.0	0.0	0.0	0	vaccing for pre-clearance
348	07/23/2012 13:43	0.0	0.0	0.0	348	07/23/2012 13:43	0.0	0.0	0.0	0	vaccing for pre-clearance
349	07/23/2012 13:44	0.0	0.0	0.0	349	07/23/2012 13:44	0.0	0.0	0.0	0	vaccing for pre-clearance
350	07/23/2012 13:45	0.0	0.0	0.0	350	07/23/2012 13:45	0.0	0.0	0.0	0	vaccing for pre-clearance
351	07/23/2012 13:46	0.0	0.0	0.0	351	07/23/2012 13:46	0.0	0.0	0.0	0	vaccing for pre-clearance
352	07/23/2012 13:47	0.0	0.0	0.0	352	07/23/2012 13:47	0.0	0.0	0.0	0	vaccing for pre-clearance
353	07/23/2012 13:48	0.0	0.0	0.0	353	07/23/2012 13:48	0.0	0.0	0.0	0	preparing for drilling
354	07/23/2012 13:49	0.0	0.0	0.0	354	07/23/2012 13:49	0.0	0.0	0.0	0	preparing for drilling
355	07/23/2012 13:50	0.0	0.0	0.0	355	07/23/2012 13:50	0.0	0.0	0.0	0	preparing for drilling
356	07/23/2012 13:51	0.0	0.0	0.0	356	07/23/2012 13:51	0.0	0.0	0.0	0	preparing for drilling
357	07/23/2012 13:52	0.0	0.0	0.0	357	07/23/2012 13:52	0.0	0.0	0.0	0	preparing for drilling
358	07/23/2012 13:53	0.0	0.0	0.0	358	07/23/2012 13:53	0.0	0.0	0.0	0	preparing for drilling
359	07/23/2012 13:54	0.0	0.0	0.0	359	07/23/2012 13:54	0.0	0.0	0.0	0	preparing for drilling
360	07/23/2012 13:55	0.0	0.0	0.0	360	07/23/2012 13:55	0.0	0.0	0.0	0	preparing for drilling
361	07/23/2012 13:56	0.0	0.0	0.0	361	07/23/2012 13:56	0.0	0.0	0.0	0	preparing for drilling
362	07/23/2012 13:57	0.0	0.0	0.0	362	07/23/2012 13:57	0.0	0.0	0.0	0	preparing for drilling
363	07/23/2012 13:58	0.0	0.0	0.0	363	07/23/2012 13:58	0.0	0.0	0.0	0	preparing for drilling
364	07/23/2012 13:59	0.0	0.0	0.0	364	07/23/2012 13:59	0.0	0.0	0.0	0	preparing for drilling
365	07/23/2012 14:00	0.0	0.0	0.0	365	07/23/2012 14:00	0.0	0.0	0.0	0	preparing for drilling
366	07/23/2012 14:01	0.0	0.0	0.0	366	07/23/2012 14:01	0.0	0.0	0.0	0	preparing for drilling
367	07/23/2012 14:02	0.0	0.0	0.0	367	07/23/2012 14:02	0.0	0.0	0.0	0	preparing for drilling
368	07/23/2012 14:03	0.0	0.0	0.0	368	07/23/2012 14:03	0.0	0.0	0.0	0	preparing for drilling
369	07/23/2012 14:04	0.0	0.0	0.0	369	07/23/2012 14:04	0.0	0.0	0.0	0	preparing for drilling
370	07/23/2012 14:05	0.0	0.0	0.0	370	07/23/2012 14:05	0.0	0.0	0.0	0	preparing for drilling
371	07/23/2012 14:06	0.0	0.0	0.0	371	07/23/2012 14:06	0.0	0.0	0.0	0	preparing for drilling
372	07/23/2012 14:07	0.0	0.0	0.0	372	07/23/2012 14:07	0.0	0.0	0.0	0	preparing for drilling

373	07/23/2012 14:08	0.0	0.0	0.0	373	07/23/2012 14:08	0.0	0.0	0.0	0	preparing for drilling
374	07/23/2012 14:09	0.0	0.0	0.0	374	07/23/2012 14:09	0.0	0.0	0.0	0	preparing for drilling
375	07/23/2012 14:10	0.0	0.0	0.0	375	07/23/2012 14:10	0.0	0.0	0.0	0	preparing for drilling
376	07/23/2012 14:11	0.0	0.0	0.0	376	07/23/2012 14:11	0.0	0.0	0.0	0	Drilling SB-25
377	07/23/2012 14:12	0.0	0.0	0.0	377	07/23/2012 14:12	0.0	0.0	0.0	0	Drilling SB-25
378	07/23/2012 14:13	0.0	0.0	0.0	378	07/23/2012 14:13	0.0	0.0	0.0	0	Drilling SB-25
379	07/23/2012 14:14	0.0	0.0	0.0	379	07/23/2012 14:14	0.0	0.0	0.0	0	Drilling SB-25
380	07/23/2012 14:15	0.0	0.0	0.0	380	07/23/2012 14:15	0.0	0.0	0.0	0	Drilling SB-25
381	07/23/2012 14:16	0.0	0.0	0.0	381	07/23/2012 14:16	0.0	0.0	0.0	0	Drilling SB-25
382	07/23/2012 14:17	0.0	0.0	0.0	382	07/23/2012 14:17	0.0	0.0	0.0	0	Drilling SB-25
383	07/23/2012 14:18	0.0	0.0	0.0	383	07/23/2012 14:18	0.0	0.0	0.0	0	Drilling SB-25
384	07/23/2012 14:19	0.0	0.0	0.0	384	07/23/2012 14:19	0.0	0.0	0.0	0	Drilling SB-25
385	07/23/2012 14:20	0.0	0.0	0.0	385	07/23/2012 14:20	0.0	0.0	0.0	0	Drilling SB-25
386	07/23/2012 14:21	0.0	0.0	0.0	386	07/23/2012 14:21	0.0	0.0	0.0	0	Drilling SB-25
387	07/23/2012 14:22	0.0	0.0	0.0	387	07/23/2012 14:22	0.0	0.0	0.0	0	Drilling SB-25
388	07/23/2012 14:23	0.0	0.0	0.0	388	07/23/2012 14:23	0.0	0.0	0.0	0	Drilling SB-25
389	07/23/2012 14:24	0.0	0.0	0.0	389	07/23/2012 14:24	0.0	0.0	0.0	0	Drilling SB-25
390	07/23/2012 14:25	0.0	0.0	0.0	390	07/23/2012 14:25	0.0	0.0	0.0	0	Drilling SB-25
391	07/23/2012 14:26	0.0	0.0	0.0	391	07/23/2012 14:26	0.0	0.0	0.0	0	Drilling SB-25
392	07/23/2012 14:27	0.0	0.0	0.0	392	07/23/2012 14:27	0.0	0.0	0.0	0	Drilling SB-25
393	07/23/2012 14:28	0.0	0.0	0.0	393	07/23/2012 14:28	0.0	0.0	0.0	0	Drilling SB-25
394	07/23/2012 14:29	0.0	0.0	0.0	394	07/23/2012 14:29	0.0	0.0	0.0	0	Drilling SB-25
395	07/23/2012 14:30	0.0	0.0	0.0	395	07/23/2012 14:30	0.0	0.0	0.0	0	Drilling SB-25
396	07/23/2012 14:31	0.0	0.0	0.0	396	07/23/2012 14:31	0.0	0.0	0.0	0	Drilling SB-25
397	07/23/2012 14:32	0.0	0.0	0.0	397	07/23/2012 14:32	0.0	0.0	0.0	0	Drilling SB-25
398	07/23/2012 14:33	0.0	0.0	0.0	398	07/23/2012 14:33	0.0	0.0	0.0	0	Drilling SB-25
399	07/23/2012 14:34	0.0	0.0	0.0	399	07/23/2012 14:34	0.0	0.0	0.0	0	Drilling SB-25
400	07/23/2012 14:35	0.0	0.0	0.0	400	07/23/2012 14:35	0.0	0.0	0.0	0	Drilling SB-25
401	07/23/2012 14:36	0.0	0.0	0.0	401	07/23/2012 14:36	0.0	0.0	0.0	0	Drilling SB-25
402	07/23/2012 14:37	0.0	0.0	0.0	402	07/23/2012 14:37	0.0	0.0	0.0	0	Drilling SB-25
403	07/23/2012 14:38	0.0	0.0	0.0	403	07/23/2012 14:38	0.0	0.0	0.0	0	Drilling SB-25
404	07/23/2012 14:39	0.0	0.0	0.0	404	07/23/2012 14:39	0.0	0.0	0.0	0	Drilling SB-25
405	07/23/2012 14:40	0.0	0.0	0.0	405	07/23/2012 14:40	0.0	0.0	0.0	0	Drilling SB-25
406	07/23/2012 14:41	0.0	0.0	0.0	406	07/23/2012 14:41	0.0	0.0	0.0	0	Drilling SB-25
407	07/23/2012 14:42	0.0	0.0	0.0	407	07/23/2012 14:42	0.0	0.0	0.0	0	Drilling SB-25
408	07/23/2012 14:43	0.0	0.0	0.0	408	07/23/2012 14:43	0.0	0.0	0.0	0	Drilling SB-25
409	07/23/2012 14:44	0.0	0.0	0.0	409	07/23/2012 14:44	0.0	0.0	0.0	0	Drilling SB-25
410	07/23/2012 14:45	0.0	0.0	0.0	410	07/23/2012 14:45	0.0	0.0	0.0	0	Drilling SB-25
411	07/23/2012 14:46	0.0	0.0	0.0	411	07/23/2012 14:46	0.0	0.0	0.0	0	Drilling SB-25
412	07/23/2012 14:47	0.0	0.0	0.0	412	07/23/2012 14:47	0.0	0.0	0.0	0	Drilling SB-25
413	07/23/2012 14:48	0.0	0.0	0.0	413	07/23/2012 14:48	0.0	0.0	0.0	0	Drilling SB-25
414	07/23/2012 14:49	0.0	0.0	0.0	414	07/23/2012 14:49	0.0	0.0	0.0	0	Drilling SB-25
415	07/23/2012 14:50	0.0	0.0	0.0	415	07/23/2012 14:50	0.0	0.0	0.0	0	Drilling SB-25
416	07/23/2012 14:51	0.0	0.0	0.0	416	07/23/2012 14:51	0.0	0.0	0.0	0	Drilling SB-25
417	07/23/2012 14:52	0.0	0.0	0.0	417	07/23/2012 14:52	0.0	0.0	0.0	0	Drilling SB-25
418	07/23/2012 14:53	0.0	0.0	0.0	418	07/23/2012 14:53	0.0	0.0	0.0	0	Drilling SB-25
419	07/23/2012 14:54	0.0	0.0	0.0	419	07/23/2012 14:54	0.0	0.0	0.0	0	Drilling SB-25
420	07/23/2012 14:55	0.0	0.0	0.0	420	07/23/2012 14:55	0.0	0.0	0.0	0	Drilling SB-25
421	07/23/2012 14:56	0.0	0.0	0.0	421	07/23/2012 14:56	0.0	0.0	0.0	0	Drilling SB-25
422	07/23/2012 14:57	0.0	0.0	0.0	422	07/23/2012 14:57	0.0	0.0	0.0	0	Drilling SB-25
423	07/23/2012 14:58	0.0	0.0	0.0	423	07/23/2012 14:58	0.0	0.0	0.0	0	Drilling SB-25
424	07/23/2012 14:59	0.0	0.0	0.0	424	07/23/2012 14:59	0.0	0.0	0.0	0	Drilling SB-25
425	07/23/2012 15:00	0.0	0.0	0.0	425	07/23/2012 15:00	0.0	0.0	0.0	0	Drilling SB-25
426	07/23/2012 15:01	0.0	0.0	0.0	426	07/23/2012 15:01	0.0	0.0	0.0	0	Drilling SB-25
427	07/23/2012 15:02	0.0	0.0	0.0	427	07/23/2012 15:02	0.0	0.0	0.0	0	Drilling SB-25
428	07/23/2012 15:03	0.0	0.0	0.0	428	07/23/2012 15:03	0.0	0.0	0.0	0	Drilling SB-25
429	07/23/2012 15:04	0.0	0.0	0.0	429	07/23/2012 15:04	0.0	0.0	0.0	0	Drilling SB-25
430	07/23/2012 15:05	0.0	0.0	0.0	430	07/23/2012 15:05	0.0	0.0	0.0	0	Drilling SB-25
431	07/23/2012 15:06	0.0	0.0	0.0	431	07/23/2012 15:06	0.0	0.0	0.0	0	Drilling SB-25
432	07/23/2012 15:07	0.0	0.0	0.0	432	07/23/2012 15:07	0.0	0.0	0.0	0	Drilling SB-25
433	07/23/2012 15:08	0.0	0.0	0.0	433	07/23/2012 15:08	0.0	0.0	0.0	0	Drilling SB-25
434	07/23/2012 15:09	0.0	0.0	0.0	434	07/23/2012 15:09	0.0	0.0	0.0	0	Drilling SB-25
435	07/23/2012 15:10	0.0	0.0	0.0	435	07/23/2012 15:10	0.0	0.0	0.0	0	Drilling SB-25
436	07/23/2012 15:11	0.0	0.0	0.0	436	07/23/2012 15:11	0.0	0.0	0.0	0	Drilling SB-25

437	07/23/2012 15:12	0.0	0.0	0.0	437	07/23/2012 15:12	0.0	0.0	0.0	0	Drilling SB-25
438	07/23/2012 15:13	0.0	0.0	0.0	438	07/23/2012 15:13	0.0	0.0	0.0	0	Drilling SB-25
439	07/23/2012 15:14	0.0	0.0	0.0	439	07/23/2012 15:14	0.0	0.0	0.0	0	Drilling SB-25
440	07/23/2012 15:15	0.0	0.0	0.0	440	07/23/2012 15:15	0.0	0.0	0.0	0	Drilling SB-25
441	07/23/2012 15:16	0.0	0.0	0.0	441	07/23/2012 15:16	0.0	0.0	0.0	0	Drilling SB-25
442	07/23/2012 15:17	0.0	0.0	0.0	442	07/23/2012 15:17	0.0	0.0	0.0	0	Drilling SB-25
443	07/23/2012 15:18	0.0	0.0	0.0	443	07/23/2012 15:18	0.0	0.0	0.0	0	Drilling SB-25
444	07/23/2012 15:19	0.0	0.0	0.0	444	07/23/2012 15:19	0.0	0.0	0.0	0	Drilling SB-25
445	07/23/2012 15:20	0.0	0.0	0.1	445	07/23/2012 15:20	0.0	0.0	0.1	0	Drilling SB-25
446	07/23/2012 15:21	0.0	0.0	0.1	446	07/23/2012 15:21	0.0	0.0	0.1	0	Drilling SB-25
447	07/23/2012 15:22	0.0	0.0	0.1	447	07/23/2012 15:22	0.0	0.0	0.1	0	Drilling SB-25
448	07/23/2012 15:23	0.0	0.0	0.1	448	07/23/2012 15:23	0.0	0.0	0.1	0	Drilling SB-25
449	07/23/2012 15:24	0.1	0.1	0.1	449	07/23/2012 15:24	0.1	0.1	0.1	0	Drilling SB-25
450	07/23/2012 15:25	0.1	0.1	0.1	450	07/23/2012 15:25	0.1	0.1	0.1	0	Drilling SB-25
451	07/23/2012 15:26	0.1	0.1	0.1	451	07/23/2012 15:26	0.1	0.1	0.1	0	Drilling SB-25
452	07/23/2012 15:27	0.1	0.1	0.1	452	07/23/2012 15:27	0.1	0.1	0.1	0	Drilling SB-25
453	07/23/2012 15:28	0.1	0.1	0.2	453	07/23/2012 15:28	0.1	0.1	0.2	0	Drilling SB-25
454	07/23/2012 15:29	0.1	0.1	0.3	454	07/23/2012 15:29	0.1	0.1	0.3	0	Drilling SB-25
455	07/23/2012 15:30	0.2	0.2	0.3	455	07/23/2012 15:30	0.2	0.2	0.3	0	Drilling SB-25
456	07/23/2012 15:31	0.2	0.2	0.3	456	07/23/2012 15:31	0.2	0.2	0.3	0	Drilling SB-25, starts raining
457	07/23/2012 15:32	0.3	0.3	0.3	457	07/23/2012 15:32	0.3	0.3	0.3	0	Drilling SB-25, raining
458	07/23/2012 15:33	0.3	0.3	0.4	458	07/23/2012 15:33	0.3	0.3	0.4	0	Drilling SB-25, raining
459	07/23/2012 15:34	0.3	0.3	0.4	459	07/23/2012 15:34	0.3	0.3	0.4	0	Drilling SB-25, raining
460	07/23/2012 15:35	0.3	0.3	0.4	460	07/23/2012 15:35	0.3	0.3	0.4	0	Drilling SB-25, raining
461	07/23/2012 15:36	0.2	0.3	0.4	461	07/23/2012 15:36	0.2	0.3	0.4	0	Drilling SB-25, raining
462	07/23/2012 15:37	0.4	0.4	0.5	462	07/23/2012 15:37	0.4	0.4	0.5	0	Drilling SB-25, raining
463	07/23/2012 15:38	0.5	0.5	0.5	463	07/23/2012 15:38	0.5	0.5	0.5	0	Drilling SB-25, raining
464	07/23/2012 15:39	0.5	0.5	0.6	464	07/23/2012 15:39	0.5	0.5	0.6	0	Drilling SB-25, raining
465	07/23/2012 15:40	0.6	0.6	0.7	465	07/23/2012 15:40	0.6	0.6	0.7	0	Drilling SB-25, raining
466	07/23/2012 15:41	0.6	0.6	0.7	466	07/23/2012 15:41	0.6	0.6	0.7	0	Drilling SB-25, raining
467	07/23/2012 15:42	0.7	0.7	0.8	467	07/23/2012 15:42	0.7	0.7	0.8	0	Drilling SB-25, raining
468	07/23/2012 15:43	0.8	0.8	0.9	468	07/23/2012 15:43	0.8	0.8	0.9	0	Drilling SB-25, raining
469	07/23/2012 15:44	0.9	0.9	1.0	469	07/23/2012 15:44	0.9	0.9	1.0	0	Drilling SB-25, raining
470	07/23/2012 15:45	1.0	1.0	1.1	470	07/23/2012 15:45	1.0	1.0	1.1	0	Drilling SB-25, raining
471	07/23/2012 15:46	1.0	1.0	1.1	471	07/23/2012 15:46	1.0	1.0	1.1	0	Drilling SB-25, raining
472	07/23/2012 15:47	1.0	1.0	1.1	472	07/23/2012 15:47	1.0	1.0	1.1	0	done drilling, demobilizing
473	07/23/2012 15:48	1.0	1.0	1.1	473	07/23/2012 15:48	1.0	1.0	1.1	0	done drilling, demobilizing
474	07/23/2012 15:49	1.1	1.1	1.2	474	07/23/2012 15:49	1.1	1.1	1.2	0	done drilling, demobilizing
475	07/23/2012 15:50	1.1	1.1	1.2	475	07/23/2012 15:50	1.1	1.1	1.2	0	done drilling, demobilizing
476	07/23/2012 15:51	1.2	1.2	1.2	476	07/23/2012 15:51	1.2	1.2	1.2	0	done drilling, demobilizing
477	07/23/2012 15:52	1.2	1.2	1.2	477	07/23/2012 15:52	1.2	1.2	1.2	0	done drilling, demobilizing
478	07/23/2012 15:53	1.2	1.2	1.2	478	07/23/2012 15:53	1.2	1.2	1.2	0	done drilling, demobilizing
479	07/23/2012 15:54	1.2	1.2	1.3	479	07/23/2012 15:54	1.2	1.2	1.3	0	done drilling, demobilizing
480	07/23/2012 15:55	1.3	1.3	1.5	480	07/23/2012 15:55	1.3	1.3	1.5	0	done drilling, demobilizing
481	07/23/2012 15:56	1.4	1.5	1.6	481	07/23/2012 15:56	1.4	1.5	1.6	0	done drilling, demobilizing
482	07/23/2012 15:57	1.5	1.6	1.7	482	07/23/2012 15:57	1.5	1.6	1.7	0	done drilling, demobilizing

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000146
Data Points: 457 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/23/2012 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	07/24/2012 07:49	0.0	0.0	0.0
2	07/24/2012 07:50	0.0	0.0	0.0
3	07/24/2012 07:51	0.0	0.0	0.0
4	07/24/2012 07:52	0.0	0.0	0.0
5	07/24/2012 07:53	0.0	0.0	0.0
6	07/24/2012 07:54	0.0	0.0	0.0
7	07/24/2012 07:55	0.0	0.0	0.0
8	07/24/2012 07:56	0.0	0.0	0.0
9	07/24/2012 07:57	0.0	0.0	0.0
10	07/24/2012 07:58	0.0	0.0	0.0
11	07/24/2012 07:59	0.0	0.0	0.0
12	07/24/2012 08:00	0.0	0.0	0.1
13	07/24/2012 08:01	0.0	0.0	0.1
14	07/24/2012 08:02	0.0	0.0	0.1
15	07/24/2012 08:03	0.1	0.1	0.1
16	07/24/2012 08:04	0.1	0.1	0.1
17	07/24/2012 08:05	0.1	0.1	0.1
18	07/24/2012 08:06	0.1	0.1	0.1
19	07/24/2012 08:07	0.1	0.1	0.1
20	07/24/2012 08:08	0.1	0.1	0.1
21	07/24/2012 08:09	0.0	0.0	0.1
22	07/24/2012 08:10	0.0	0.0	0.1
23	07/24/2012 08:11	0.0	0.0	0.1
24	07/24/2012 08:12	0.0	0.0	0.1
25	07/24/2012 08:13	0.0	0.0	0.1
26	07/24/2012 08:14	0.0	0.0	0.1
27	07/24/2012 08:15	0.0	0.0	0.1
28	07/24/2012 08:16	0.0	0.0	0.0
29	07/24/2012 08:17	0.0	0.0	0.0
30	07/24/2012 08:18	0.0	0.0	0.0
31	07/24/2012 08:19	0.0	0.0	0.0
32	07/24/2012 08:20	0.0	0.0	0.0
33	07/24/2012 08:21	0.0	0.0	0.0
34	07/24/2012 08:22	0.0	0.0	0.0
35	07/24/2012 08:23	0.0	0.0	0.0
36	07/24/2012 08:24	0.0	0.0	0.0
37	07/24/2012 08:25	0.0	0.0	0.0
38	07/24/2012 08:26	0.0	0.0	0.0
39	07/24/2012 08:27	0.0	0.0	0.0
40	07/24/2012 08:28	0.0	0.0	0.0
41	07/24/2012 08:29	0.0	0.0	0.0
42	07/24/2012 08:30	0.0	0.0	0.0
43	07/24/2012 08:31	0.0	0.0	0.0
44	07/24/2012 08:32	0.0	0.0	0.0
45	07/24/2012 08:33	0.0	0.0	0.0
46	07/24/2012 08:34	0.0	0.0	0.0
47	07/24/2012 08:35	0.0	0.0	0.0
48	07/24/2012 08:36	0.0	0.0	0.0
49	07/24/2012 08:37	0.0	0.0	0.0
50	07/24/2012 08:38	0.0	0.0	0.0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000146
Data Points: 457 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/23/2012 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Difference	Comments
1	07/24/2012 07:49	0.0	0.0	0.0	0	Drilling SB-25, both Dust Traks not working, will not
2	07/24/2012 07:50	0.0	0.0	0.0	0	calibrate* called Pine, will be delivering replacements.
3	07/24/2012 07:51	0.0	0.0	0.0	0	Drilling SB-25
4	07/24/2012 07:52	0.0	0.0	0.0	0	Drilling SB-25
5	07/24/2012 07:53	0.0	0.0	0.0	0	Drilling SB-25
6	07/24/2012 07:54	0.0	0.0	0.0	0	Drilling SB-25
7	07/24/2012 07:55	0.0	0.0	0.0	0	Drilling SB-25
8	07/24/2012 07:56	0.0	0.0	0.0	0	Drilling SB-25
9	07/24/2012 07:57	0.0	0.0	0.0	0	Drilling SB-25
10	07/24/2012 07:58	0.0	0.0	0.0	0	Drilling SB-25
11	07/24/2012 07:59	0.0	0.0	0.0	0	Drilling SB-25
12	07/24/2012 08:00	0.0	0.0	0.1	0	Drilling SB-25
13	07/24/2012 08:01	0.0	0.0	0.1	0	Drilling SB-25
14	07/24/2012 08:02	0.0	0.0	0.1	0	Drilling SB-25
15	07/24/2012 08:03	0.1	0.1	0.1	0	Drilling SB-25
16	07/24/2012 08:04	0.1	0.1	0.1	0	Drilling SB-25
17	07/24/2012 08:05	0.1	0.1	0.1	0	Drilling SB-25
18	07/24/2012 08:06	0.1	0.1	0.1	0	Drilling SB-25
19	07/24/2012 08:07	0.1	0.1	0.1	0	Drilling SB-25
20	07/24/2012 08:08	0.1	0.1	0.1	0	Drilling SB-25
21	07/24/2012 08:09	0.0	0.0	0.1	0	Drilling SB-25
22	07/24/2012 08:10	0.0	0.0	0.1	0	Drilling SB-25
23	07/24/2012 08:11	0.0	0.0	0.1	0	Drilling SB-25
24	07/24/2012 08:12	0.0	0.0	0.1	0	Drilling SB-25
25	07/24/2012 08:13	0.0	0.0	0.1	0	Drilling SB-25
26	07/24/2012 08:14	0.0	0.0	0.1	0	Drilling SB-25
27	07/24/2012 08:15	0.0	0.0	0.1	0	Drilling SB-25
28	07/24/2012 08:16	0.0	0.0	0.0	0	Drilling SB-25
29	07/24/2012 08:17	0.0	0.0	0.0	0	Drilling SB-25
30	07/24/2012 08:18	0.0	0.0	0.0	0	Drilling SB-25
31	07/24/2012 08:19	0.0	0.0	0.0	0	Drilling SB-25
32	07/24/2012 08:20	0.0	0.0	0.0	0	Drilling SB-25
33	07/24/2012 08:21	0.0	0.0	0.0	0	Drilling SB-25
34	07/24/2012 08:22	0.0	0.0	0.0	0	Drilling SB-25
35	07/24/2012 08:23	0.0	0.0	0.0	0	Drilling SB-25
36	07/24/2012 08:24	0.0	0.0	0.0	0	Drilling SB-25
37	07/24/2012 08:25	0.0	0.0	0.0	0	Drilling SB-25
38	07/24/2012 08:26	0.0	0.0	0.0	0	Drilling SB-25
39	07/24/2012 08:27	0.0	0.0	0.0	0	Drilling SB-25
40	07/24/2012 08:28	0.0	0.0	0.0	0	Drilling SB-25
41	07/24/2012 08:29	0.0	0.0	0.0	0	Drilling SB-25
42	07/24/2012 08:30	0.0	0.0	0.0	0	Drilling SB-25
43	07/24/2012 08:31	0.0	0.0	0.0	0	Drilling SB-25
44	07/24/2012 08:32	0.0	0.0	0.0	0	Drilling SB-25
45	07/24/2012 08:33	0.0	0.0	0.0	0	Drilling SB-25
46	07/24/2012 08:34	0.0	0.0	0.0	0	Drilling SB-25
47	07/24/2012 08:35	0.0	0.0	0.0	0	Drilling SB-25
48	07/24/2012 08:36	0.0	0.0	0.0	0	Drilling SB-25
49	07/24/2012 08:37	0.0	0.0	0.0	0	Drilling SB-25
50	07/24/2012 08:38	0.0	0.0	0.0	0	Drilling SB-25

51	07/24/2012 08:39	0.0	0.0	0.0	51	07/24/2012 08:39	0.0	0.0	0.0	0	Drilling SB-25
52	07/24/2012 08:40	0.0	0.0	0.0	52	07/24/2012 08:40	0.0	0.0	0.0	0	Drilling SB-25
53	07/24/2012 08:41	0.0	0.0	0.0	53	07/24/2012 08:41	0.0	0.0	0.0	0	Drilling SB-25
54	07/24/2012 08:42	0.0	0.0	0.0	54	07/24/2012 08:42	0.0	0.0	0.0	0	Drilling SB-25
55	07/24/2012 08:43	0.0	0.0	0.0	55	07/24/2012 08:43	0.0	0.0	0.0	0	Drilling SB-25
56	07/24/2012 08:44	0.0	0.0	0.0	56	07/24/2012 08:44	0.0	0.0	0.0	0	Drilling SB-25
57	07/24/2012 08:45	0.0	0.0	0.0	57	07/24/2012 08:45	0.0	0.0	0.0	0	Drilling SB-25
58	07/24/2012 08:46	0.0	0.0	0.0	58	07/24/2012 08:46	0.0	0.0	0.0	0	Drilling SB-25
59	07/24/2012 08:47	0.0	0.0	0.0	59	07/24/2012 08:47	0.0	0.0	0.0	0	Drilling SB-25
60	07/24/2012 08:48	0.0	0.0	0.0	60	07/24/2012 08:48	0.0	0.0	0.0	0	Drilling SB-25
61	07/24/2012 08:49	0.0	0.0	0.0	61	07/24/2012 08:49	0.0	0.0	0.0	0	Drilling SB-25
62	07/24/2012 08:50	0.0	0.0	0.0	62	07/24/2012 08:50	0.0	0.0	0.0	0	Drilling SB-25
63	07/24/2012 08:51	0.0	0.0	0.0	63	07/24/2012 08:51	0.0	0.0	0.0	0	Drilling SB-25
64	07/24/2012 08:52	0.0	0.0	0.0	64	07/24/2012 08:52	0.0	0.0	0.0	0	Drilling SB-25
65	07/24/2012 08:53	0.0	0.0	0.0	65	07/24/2012 08:53	0.0	0.0	0.0	0	Drilling SB-25
66	07/24/2012 08:54	0.0	0.0	0.0	66	07/24/2012 08:54	0.0	0.0	0.0	0	Drilling SB-25
67	07/24/2012 08:55	0.0	0.0	0.0	67	07/24/2012 08:55	0.0	0.0	0.0	0	Drilling SB-25
68	07/24/2012 08:56	0.0	0.0	0.0	68	07/24/2012 08:56	0.0	0.0	0.0	0	Drilling SB-25
69	07/24/2012 08:57	0.0	0.0	0.0	69	07/24/2012 08:57	0.0	0.0	0.0	0	Drilling SB-25
70	07/24/2012 08:58	0.0	0.0	0.0	70	07/24/2012 08:58	0.0	0.0	0.0	0	Drilling SB-25
71	07/24/2012 08:59	0.0	0.0	0.0	71	07/24/2012 08:59	0.0	0.0	0.0	0	Drilling SB-25
72	07/24/2012 09:00	0.0	0.0	0.0	72	07/24/2012 09:00	0.0	0.0	0.0	0	Drilling SB-25
73	07/24/2012 09:01	0.0	0.0	0.0	73	07/24/2012 09:01	0.0	0.0	0.0	0	Drilling SB-25
74	07/24/2012 09:02	0.0	0.0	0.0	74	07/24/2012 09:02	0.0	0.0	0.0	0	Drilling SB-25
75	07/24/2012 09:03	0.0	0.0	0.0	75	07/24/2012 09:03	0.0	0.0	0.0	0	Drilling SB-25
76	07/24/2012 09:04	0.0	0.0	0.0	76	07/24/2012 09:04	0.0	0.0	0.0	0	Drilling SB-25
77	07/24/2012 09:05	0.0	0.0	0.0	77	07/24/2012 09:05	0.0	0.0	0.0	0	Drilling SB-25
78	07/24/2012 09:06	0.0	0.0	0.0	78	07/24/2012 09:06	0.0	0.0	0.0	0	Drilling SB-25
79	07/24/2012 09:07	0.0	0.0	0.0	79	07/24/2012 09:07	0.0	0.0	0.0	0	Drilling SB-25
80	07/24/2012 09:08	0.0	0.0	0.0	80	07/24/2012 09:08	0.0	0.0	0.0	0	Drilling SB-25
81	07/24/2012 09:09	0.0	0.0	0.0	81	07/24/2012 09:09	0.0	0.0	0.0	0	Drilling SB-25
82	07/24/2012 09:10	0.0	0.0	0.0	82	07/24/2012 09:10	0.0	0.0	0.0	0	Drilling SB-25
83	07/24/2012 09:11	0.0	0.0	0.0	83	07/24/2012 09:11	0.0	0.0	0.0	0	Drilling SB-25
84	07/24/2012 09:12	0.0	0.0	0.0	84	07/24/2012 09:12	0.0	0.0	0.0	0	Drilling SB-25
85	07/24/2012 09:13	0.0	0.0	0.0	85	07/24/2012 09:13	0.0	0.0	0.0	0	Drilling SB-25
86	07/24/2012 09:14	0.0	0.0	0.0	86	07/24/2012 09:14	0.0	0.0	0.0	0	Drilling SB-25
87	07/24/2012 09:15	0.0	0.0	0.0	87	07/24/2012 09:15	0.0	0.0	0.0	0	Drilling SB-25
88	07/24/2012 09:16	0.0	0.0	0.0	88	07/24/2012 09:16	0.0	0.0	0.0	0	Drilling SB-25
89	07/24/2012 09:17	0.0	0.0	0.0	89	07/24/2012 09:17	0.0	0.0	0.0	0	Drilling SB-25
90	07/24/2012 09:18	0.0	0.0	0.0	90	07/24/2012 09:18	0.0	0.0	0.0	0	Drilling SB-25
91	07/24/2012 09:19	0.0	0.0	0.0	91	07/24/2012 09:19	0.0	0.0	0.0	0	Drilling SB-25
92	07/24/2012 09:20	0.0	0.0	0.0	92	07/24/2012 09:20	0.0	0.0	0.0	0	Drilling SB-25
93	07/24/2012 09:21	0.0	0.0	0.0	93	07/24/2012 09:21	0.0	0.0	0.0	0	Drilling SB-25
94	07/24/2012 09:22	0.0	0.0	0.0	94	07/24/2012 09:22	0.0	0.0	0.0	0	Drilling SB-25
95	07/24/2012 09:23	0.0	0.0	0.0	95	07/24/2012 09:23	0.0	0.0	0.0	0	Drilling SB-25
96	07/24/2012 09:24	0.0	0.0	0.0	96	07/24/2012 09:24	0.0	0.0	0.0	0	Drilling SB-25
97	07/24/2012 09:25	0.0	0.0	0.0	97	07/24/2012 09:25	0.0	0.0	0.0	0	Drilling SB-25
98	07/24/2012 09:26	0.0	0.0	0.0	98	07/24/2012 09:26	0.0	0.0	0.0	0	Drilling SB-25
99	07/24/2012 09:27	0.0	0.0	0.0	99	07/24/2012 09:27	0.0	0.0	0.0	0	Drilling SB-25
100	07/24/2012 09:28	0.0	0.0	0.0	100	07/24/2012 09:28	0.0	0.0	0.0	0	Drilling SB-25
101	07/24/2012 09:29	0.0	0.0	0.0	101	07/24/2012 09:29	0.0	0.0	0.0	0	Drilling SB-25
102	07/24/2012 09:30	0.0	0.0	0.0	102	07/24/2012 09:30	0.0	0.0	0.0	0	Drilling SB-25
103	07/24/2012 09:31	0.0	0.0	0.0	103	07/24/2012 09:31	0.0	0.0	0.0	0	Drilling SB-25
104	07/24/2012 09:32	0.0	0.0	0.0	104	07/24/2012 09:32	0.0	0.0	0.0	0	Drilling SB-25
105	07/24/2012 09:33	0.0	0.0	0.0	105	07/24/2012 09:33	0.0	0.0	0.0	0	Drilling SB-25
106	07/24/2012 09:34	0.0	0.0	0.0	106	07/24/2012 09:34	0.0	0.0	0.0	0	Drilling SB-25
107	07/24/2012 09:35	0.0	0.0	0.0	107	07/24/2012 09:35	0.0	0.0	0.0	0	Drilling SB-25
108	07/24/2012 09:36	0.0	0.0	0.0	108	07/24/2012 09:36	0.0	0.0	0.0	0	Drilling SB-25
109	07/24/2012 09:37	0.0	0.0	0.0	109	07/24/2012 09:37	0.0	0.0	0.0	0	Drilling SB-25
110	07/24/2012 09:38	0.0	0.0	0.0	110	07/24/2012 09:38	0.0	0.0	0.0	0	Drilling SB-25
111	07/24/2012 09:39	0.0	0.0	0.0	111	07/24/2012 09:39	0.0	0.0	0.0	0	Drilling SB-25
112	07/24/2012 09:40	0.0	0.0	0.0	112	07/24/2012 09:40	0.0	0.0	0.0	0	Drilling SB-25

113	07/24/2012 09:41	0.0	0.0	0.0	113	07/24/2012 09:41	0.0	0.0	0.0	0	Drilling SB-25
114	07/24/2012 09:42	0.0	0.0	0.0	114	07/24/2012 09:42	0.0	0.0	0.0	0	Drilling SB-25
115	07/24/2012 09:43	0.0	0.0	0.0	115	07/24/2012 09:43	0.0	0.0	0.0	0	Drilling SB-25
116	07/24/2012 09:44	0.0	0.0	0.0	116	07/24/2012 09:44	0.0	0.0	0.0	0	Drilling SB-25
117	07/24/2012 09:45	0.0	0.0	0.0	117	07/24/2012 09:45	0.0	0.0	0.0	0	Drilling SB-25
118	07/24/2012 09:46	0.0	0.0	0.0	118	07/24/2012 09:46	0.0	0.0	0.0	0	Drilling SB-25
119	07/24/2012 09:47	0.0	0.0	0.0	119	07/24/2012 09:47	0.0	0.0	0.0	0	Drilling SB-25
120	07/24/2012 09:48	0.0	0.0	0.0	120	07/24/2012 09:48	0.0	0.0	0.0	0	Drilling SB-25
121	07/24/2012 09:49	0.0	0.0	0.0	121	07/24/2012 09:49	0.0	0.0	0.0	0	Drilling SB-25
122	07/24/2012 09:50	0.0	0.0	0.0	122	07/24/2012 09:50	0.0	0.0	0.0	0	Drilling SB-25
123	07/24/2012 09:51	0.0	0.0	0.0	123	07/24/2012 09:51	0.0	0.0	0.0	0	Drilling SB-25
124	07/24/2012 09:52	0.0	0.0	0.0	124	07/24/2012 09:52	0.0	0.0	0.0	0	Drilling SB-25
125	07/24/2012 09:53	0.0	0.0	0.0	125	07/24/2012 09:53	0.0	0.0	0.0	0	Drilling SB-25
126	07/24/2012 09:54	0.0	0.0	0.0	126	07/24/2012 09:54	0.0	0.0	0.0	0	Drilling SB-25
127	07/24/2012 09:55	0.0	0.0	0.0	127	07/24/2012 09:55	0.0	0.0	0.0	0	Drilling SB-25
128	07/24/2012 09:56	0.0	0.0	0.0	128	07/24/2012 09:56	0.0	0.0	0.0	0	Drilling SB-25
129	07/24/2012 09:57	0.0	0.0	0.0	129	07/24/2012 09:57	0.0	0.0	0.0	0	Drilling SB-25
130	07/24/2012 09:58	0.0	0.0	0.0	130	07/24/2012 09:58	0.0	0.0	0.0	0	Drilling SB-25
131	07/24/2012 09:59	0.0	0.0	0.0	131	07/24/2012 09:59	0.0	0.0	0.0	0	Drilling SB-25
132	07/24/2012 10:00	0.0	0.0	0.0	132	07/24/2012 10:00	0.0	0.0	0.0	0	Drilling SB-25
133	07/24/2012 10:01	0.0	0.0	0.0	133	07/24/2012 10:01	0.0	0.0	0.0	0	Drilling SB-25
134	07/24/2012 10:02	0.0	0.0	0.0	134	07/24/2012 10:02	0.0	0.0	0.0	0	Drilling SB-25
135	07/24/2012 10:03	0.0	0.0	0.0	135	07/24/2012 10:03	0.0	0.0	0.0	0	Drilling SB-25
136	07/24/2012 10:04	0.0	0.0	0.0	136	07/24/2012 10:04	0.0	0.0	0.0	0	Drilling SB-25
137	07/24/2012 10:05	0.0	0.0	0.0	137	07/24/2012 10:05	0.0	0.0	0.0	0	Drilling SB-25
138	07/24/2012 10:06	0.0	0.0	0.0	138	07/24/2012 10:06	0.0	0.0	0.0	0	Drilling SB-25
139	07/24/2012 10:07	0.0	0.0	0.0	139	07/24/2012 10:07	0.0	0.0	0.0	0	Drilling SB-25
140	07/24/2012 10:08	0.0	0.0	0.0	140	07/24/2012 10:08	0.0	0.0	0.0	0	Drilling SB-25
141	07/24/2012 10:09	0.0	0.0	0.0	141	07/24/2012 10:09	0.0	0.0	0.0	0	Drilling SB-25
142	07/24/2012 10:10	0.0	0.0	0.0	142	07/24/2012 10:10	0.0	0.0	0.0	0	Drilling SB-25
143	07/24/2012 10:11	0.0	0.0	0.0	143	07/24/2012 10:11	0.0	0.0	0.0	0	Drilling SB-25
144	07/24/2012 10:12	0.0	0.0	0.0	144	07/24/2012 10:12	0.0	0.0	0.0	0	Drilling SB-25
145	07/24/2012 10:13	0.0	0.0	0.0	145	07/24/2012 10:13	0.0	0.0	0.0	0	Drilling SB-25
146	07/24/2012 10:14	0.0	0.0	0.0	146	07/24/2012 10:14	0.0	0.0	0.0	0	Drilling SB-25
147	07/24/2012 10:15	0.0	0.0	0.0	147	07/24/2012 10:15	0.0	0.0	0.0	0	Drilling SB-25
148	07/24/2012 10:16	0.0	0.0	0.0	148	07/24/2012 10:16	0.0	0.0	0.0	0	Drilling SB-25
149	07/24/2012 10:17	0.0	0.0	0.0	149	07/24/2012 10:17	0.0	0.0	0.0	0	Drilling SB-25
150	07/24/2012 10:18	0.0	0.0	0.0	150	07/24/2012 10:18	0.0	0.0	0.0	0	Drilling SB-25
151	07/24/2012 10:19	0.0	0.0	0.0	151	07/24/2012 10:19	0.0	0.0	0.0	0	Drilling SB-25
152	07/24/2012 10:20	0.0	0.0	0.0	152	07/24/2012 10:20	0.0	0.0	0.0	0	Drilling SB-25
153	07/24/2012 10:21	0.0	0.0	0.0	153	07/24/2012 10:21	0.0	0.0	0.0	0	Drilling SB-25
154	07/24/2012 10:22	0.0	0.0	0.0	154	07/24/2012 10:22	0.0	0.0	0.0	0	Drilling SB-25
155	07/24/2012 10:23	0.0	0.0	0.0	155	07/24/2012 10:23	0.0	0.0	0.0	0	Drilling SB-25
156	07/24/2012 10:24	0.0	0.0	0.0	156	07/24/2012 10:24	0.0	0.0	0.0	0	Drilling SB-25
157	07/24/2012 10:25	0.0	0.0	0.0	157	07/24/2012 10:25	0.0	0.0	0.0	0	Drilling SB-25
158	07/24/2012 10:26	0.0	0.0	0.0	158	07/24/2012 10:26	0.0	0.0	0.0	0	Drilling SB-25
159	07/24/2012 10:27	0.0	0.0	0.0	159	07/24/2012 10:27	0.0	0.0	0.0	0	Drilling SB-25
160	07/24/2012 10:28	0.0	0.0	0.0	160	07/24/2012 10:28	0.0	0.0	0.0	0	Drilling SB-25
161	07/24/2012 10:29	0.0	0.0	0.0	161	07/24/2012 10:29	0.0	0.0	0.0	0	Drilling SB-25
162	07/24/2012 10:30	0.0	0.0	0.0	162	07/24/2012 10:30	0.0	0.0	0.0	0	Drilling SB-25
163	07/24/2012 10:31	0.0	0.0	0.0	163	07/24/2012 10:31	0.0	0.0	0.0	0	Drilling SB-25
164	07/24/2012 10:32	0.0	0.0	0.0	164	07/24/2012 10:32	0.0	0.0	0.0	0	Drilling SB-25
165	07/24/2012 10:33	0.0	0.0	0.0	165	07/24/2012 10:33	0.0	0.0	0.0	0	Drilling SB-25
166	07/24/2012 10:34	0.0	0.0	0.0	166	07/24/2012 10:34	0.0	0.0	0.0	0	Drilling SB-25
167	07/24/2012 10:35	0.0	0.0	0.0	167	07/24/2012 10:35	0.0	0.0	0.0	0	Drilling SB-25
168	07/24/2012 10:36	0.0	0.0	0.0	168	07/24/2012 10:36	0.0	0.0	0.0	0	Drilling SB-25
169	07/24/2012 10:37	0.0	0.0	0.0	169	07/24/2012 10:37	0.0	0.0	0.0	0	Drilling SB-25
170	07/24/2012 10:38	0.0	0.0	0.0	170	07/24/2012 10:38	0.0	0.0	0.0	0	Drilling SB-25
171	07/24/2012 10:39	0.0	0.0	0.0	171	07/24/2012 10:39	0.0	0.0	0.0	0	Drilling SB-25
172	07/24/2012 10:40	0.0	0.0	0.0	172	07/24/2012 10:40	0.0	0.0	0.0	0	Drilling SB-25
173	07/24/2012 10:41	0.0	0.0	0.0	173	07/24/2012 10:41	0.0	0.0	0.0	0	Drilling SB-25
174	07/24/2012 10:42	0.0	0.0	0.0	174	07/24/2012 10:42	0.0	0.0	0.0	0	Drilling SB-25

175	07/24/2012 10:43	0.0	0.0	0.0	175	07/24/2012 10:43	0.0	0.0	0.0	0	Drilling SB-25
176	07/24/2012 10:44	0.0	0.0	0.0	176	07/24/2012 10:44	0.0	0.0	0.0	0	Drilling SB-25
177	07/24/2012 10:45	0.0	0.0	0.0	177	07/24/2012 10:45	0.0	0.0	0.0	0	Drilling SB-25
178	07/24/2012 10:46	0.0	0.0	0.0	178	07/24/2012 10:46	0.0	0.0	0.0	0	Drilling SB-25
179	07/24/2012 10:47	0.0	0.0	0.0	179	07/24/2012 10:47	0.0	0.0	0.0	0	Drilling SB-25
180	07/24/2012 10:48	0.0	0.0	0.0	180	07/24/2012 10:48	0.0	0.0	0.0	0	Drilling SB-25
181	07/24/2012 10:49	0.0	0.0	0.0	181	07/24/2012 10:49	0.0	0.0	0.0	0	Drilling SB-25
182	07/24/2012 10:50	0.0	0.0	0.0	182	07/24/2012 10:50	0.0	0.0	0.0	0	Drilling SB-25
183	07/24/2012 10:51	0.0	0.0	0.0	183	07/24/2012 10:51	0.0	0.0	0.0	0	Drilling SB-25
184	07/24/2012 10:52	0.0	0.0	0.0	184	07/24/2012 10:52	0.0	0.0	0.0	0	Drilling SB-25
185	07/24/2012 10:53	0.0	0.0	0.0	185	07/24/2012 10:53	0.0	0.0	0.0	0	Drilling SB-25
186	07/24/2012 10:54	0.0	0.0	0.0	186	07/24/2012 10:54	0.0	0.0	0.0	0	Drilling SB-25
187	07/24/2012 10:55	0.0	0.0	0.0	187	07/24/2012 10:55	0.0	0.0	0.0	0	Drilling SB-25
188	07/24/2012 10:56	0.0	0.0	0.0	188	07/24/2012 10:56	0.0	0.0	0.0	0	Drilling SB-25
189	07/24/2012 10:57	0.0	0.0	0.0	189	07/24/2012 10:57	0.0	0.0	0.0	0	Drilling SB-25
190	07/24/2012 10:58	0.0	0.0	0.0	190	07/24/2012 10:58	0.0	0.0	0.0	0	Drilling SB-25
191	07/24/2012 10:59	0.0	0.0	0.0	191	07/24/2012 10:59	0.0	0.0	0.0	0	Drilling SB-25
192	07/24/2012 11:00	0.0	0.0	0.0	192	07/24/2012 11:00	0.0	0.0	0.0	0	Drilling SB-25
193	07/24/2012 11:01	0.0	0.0	0.0	193	07/24/2012 11:01	0.0	0.0	0.0	0	Finished drilling SB-25
194	07/24/2012 11:02	0.0	0.0	0.0	194	07/24/2012 11:02	0.0	0.0	0.0	0	Finished drilling SB-25
195	07/24/2012 11:03	0.0	0.0	0.0	195	07/24/2012 11:03	0.0	0.0	0.0	0	Finished drilling SB-25
196	07/24/2012 11:04	0.0	0.0	0.0	196	07/24/2012 11:04	0.0	0.0	0.0	0	Finished drilling SB-25
197	07/24/2012 11:05	0.0	0.0	0.0	197	07/24/2012 11:05	0.0	0.0	0.0	0	Finished drilling SB-25
198	07/24/2012 11:06	0.0	0.0	0.0	198	07/24/2012 11:06	0.0	0.0	0.0	0	Finished drilling SB-25
199	07/24/2012 11:07	0.0	0.0	0.0	199	07/24/2012 11:07	0.0	0.0	0.0	0	Finished drilling SB-25
200	07/24/2012 11:08	0.0	0.0	0.0	200	07/24/2012 11:08	0.0	0.0	0.0	0	Finished drilling SB-25
201	07/24/2012 11:09	0.0	0.0	0.0	201	07/24/2012 11:09	0.0	0.0	0.0	0	Finished drilling SB-25
202	07/24/2012 11:10	0.0	0.0	0.0	202	07/24/2012 11:10	0.0	0.0	0.0	0	Finished drilling SB-25
203	07/24/2012 11:11	0.0	0.0	0.0	203	07/24/2012 11:11	0.0	0.0	0.0	0	Finished drilling SB-25
204	07/24/2012 11:12	0.0	0.0	0.0	204	07/24/2012 11:12	0.0	0.0	0.0	0	Finished drilling SB-25
205	07/24/2012 11:13	0.0	0.0	0.0	205	07/24/2012 11:13	0.0	0.0	0.0	0	Finished drilling SB-25
206	07/24/2012 11:14	0.0	0.0	0.0	206	07/24/2012 11:14	0.0	0.0	0.0	0	Finished drilling SB-25
207	07/24/2012 11:15	0.0	0.0	0.0	207	07/24/2012 11:15	0.0	0.0	0.0	0	Finished drilling SB-25
208	07/24/2012 11:16	0.0	0.0	0.0	208	07/24/2012 11:16	0.0	0.0	0.0	0	Finished drilling SB-25
209	07/24/2012 11:17	0.0	0.0	0.0	209	07/24/2012 11:17	0.0	0.0	0.0	0	Finished drilling SB-25
210	07/24/2012 11:18	0.0	0.0	0.0	210	07/24/2012 11:18	0.0	0.0	0.0	0	Finished drilling SB-25
211	07/24/2012 11:19	0.0	0.0	0.0	211	07/24/2012 11:19	0.0	0.0	0.0	0	Finished drilling SB-25
212	07/24/2012 11:20	0.0	0.0	0.0	212	07/24/2012 11:20	0.0	0.0	0.0	0	Finished drilling SB-25
213	07/24/2012 11:21	0.0	0.0	0.0	213	07/24/2012 11:21	0.0	0.0	0.0	0	Finished drilling SB-25
214	07/24/2012 11:22	0.0	0.0	0.0	214	07/24/2012 11:22	0.0	0.0	0.0	0	Finished drilling SB-25
215	07/24/2012 11:23	0.0	0.0	0.0	215	07/24/2012 11:23	0.0	0.0	0.0	0	Finished drilling SB-25
216	07/24/2012 11:24	0.0	0.0	0.0	216	07/24/2012 11:24	0.0	0.0	0.0	0	Finished drilling SB-25
217	07/24/2012 11:25	0.0	0.0	0.0	217	07/24/2012 11:25	0.0	0.0	0.0	0	Finished drilling SB-25
218	07/24/2012 11:26	0.0	0.0	0.0	218	07/24/2012 11:26	0.0	0.0	0.0	0	Finished drilling SB-25
219	07/24/2012 11:27	0.0	0.0	0.0	219	07/24/2012 11:27	0.0	0.0	0.0	0	Finished drilling SB-25
220	07/24/2012 11:28	0.0	0.0	0.0	220	07/24/2012 11:28	0.0	0.0	0.0	0	Finished drilling SB-25
221	07/24/2012 11:29	0.0	0.0	0.0	221	07/24/2012 11:29	0.0	0.0	0.0	0	Finished drilling SB-25
222	07/24/2012 11:30	0.0	0.0	0.0	222	07/24/2012 11:30	0.0	0.0	0.0	0	break for lunch
223	07/24/2012 11:31	0.0	0.0	0.0	223	07/24/2012 11:31	0.0	0.0	0.0	0	break for lunch
224	07/24/2012 11:32	0.0	0.0	0.0	224	07/24/2012 11:32	0.0	0.0	0.0	0	break for lunch
225	07/24/2012 11:33	0.0	0.0	0.0	225	07/24/2012 11:33	0.0	0.0	0.0	0	break for lunch
226	07/24/2012 11:34	0.0	0.0	0.0	226	07/24/2012 11:34	0.0	0.0	0.0	0	break for lunch
227	07/24/2012 11:35	0.0	0.0	0.0	227	07/24/2012 11:35	0.0	0.0	0.0	0	break for lunch
228	07/24/2012 11:36	0.0	0.0	0.0	228	07/24/2012 11:36	0.0	0.0	0.0	0	break for lunch
229	07/24/2012 11:37	0.0	0.0	0.0	229	07/24/2012 11:37	0.0	0.0	0.0	0	break for lunch
230	07/24/2012 11:38	0.0	0.0	0.0	230	07/24/2012 11:38	0.0	0.0	0.0	0	break for lunch
231	07/24/2012 11:39	0.0	0.0	0.0	231	07/24/2012 11:39	0.0	0.0	0.0	0	break for lunch
232	07/24/2012 11:40	0.0	0.0	0.0	232	07/24/2012 11:40	0.0	0.0	0.0	0	break for lunch
233	07/24/2012 11:41	0.0	0.0	0.0	233	07/24/2012 11:41	0.0	0.0	0.0	0	break for lunch
234	07/24/2012 11:42	0.0	0.0	0.0	234	07/24/2012 11:42	0.0	0.0	0.0	0	break for lunch
235	07/24/2012 11:43	0.0	0.0	0.0	235	07/24/2012 11:43	0.0	0.0	0.0	0	break for lunch
236	07/24/2012 11:44	0.0	0.0	0.0	236	07/24/2012 11:44	0.0	0.0	0.0	0	break for lunch

237	07/24/2012 11:45	0.0	0.0	0.0	237	07/24/2012 11:45	0.0	0.0	0.0	0	break for lunch
238	07/24/2012 11:46	0.0	0.0	0.0	238	07/24/2012 11:46	0.0	0.0	0.0	0	break for lunch
239	07/24/2012 11:47	0.0	0.0	0.0	239	07/24/2012 11:47	0.0	0.0	0.0	0	break for lunch
240	07/24/2012 11:48	0.0	0.0	0.0	240	07/24/2012 11:48	0.0	0.0	0.0	0	break for lunch
241	07/24/2012 11:49	0.0	0.0	0.0	241	07/24/2012 11:49	0.0	0.0	0.0	0	break for lunch
242	07/24/2012 11:50	0.0	0.0	0.0	242	07/24/2012 11:50	0.0	0.0	0.0	0	break for lunch
243	07/24/2012 11:51	0.0	0.0	0.0	243	07/24/2012 11:51	0.0	0.0	0.0	0	break for lunch
244	07/24/2012 11:52	0.0	0.0	0.0	244	07/24/2012 11:52	0.0	0.0	0.0	0	break for lunch
245	07/24/2012 11:53	0.0	0.0	0.0	245	07/24/2012 11:53	0.0	0.0	0.0	0	break for lunch
246	07/24/2012 11:54	0.0	0.0	0.0	246	07/24/2012 11:54	0.0	0.0	0.0	0	break for lunch
247	07/24/2012 11:55	0.0	0.0	0.0	247	07/24/2012 11:55	0.0	0.0	0.0	0	break for lunch
248	07/24/2012 11:56	0.0	0.0	0.0	248	07/24/2012 11:56	0.0	0.0	0.0	0	break for lunch
249	07/24/2012 11:57	0.0	0.0	0.0	249	07/24/2012 11:57	0.0	0.0	0.0	0	break for lunch
250	07/24/2012 11:58	0.0	0.0	0.0	250	07/24/2012 11:58	0.0	0.0	0.0	0	break for lunch
251	07/24/2012 11:59	0.0	0.0	0.0	251	07/24/2012 11:59	0.0	0.0	0.0	0	break for lunch
252	07/24/2012 12:00	0.0	0.0	0.0	252	07/24/2012 12:00	0.0	0.0	0.0	0	prepping to install well
253	07/24/2012 12:01	0.0	0.0	0.0	253	07/24/2012 12:01	0.0	0.0	0.0	0	prepping to install well
254	07/24/2012 12:02	0.0	0.0	0.0	254	07/24/2012 12:02	0.0	0.0	0.0	0	prepping to install well
255	07/24/2012 12:03	0.0	0.0	0.0	255	07/24/2012 12:03	0.0	0.0	0.0	0	prepping to install well
256	07/24/2012 12:04	0.0	0.0	0.0	256	07/24/2012 12:04	0.0	0.0	0.0	0	prepping to install well
257	07/24/2012 12:05	0.0	0.0	0.0	257	07/24/2012 12:05	0.0	0.0	0.0	0	prepping to install well
258	07/24/2012 12:06	0.0	0.0	0.0	258	07/24/2012 12:06	0.0	0.0	0.0	0	prepping to install well
259	07/24/2012 12:07	0.0	0.0	0.0	259	07/24/2012 12:07	0.0	0.0	0.0	0	prepping to install well
260	07/24/2012 12:08	0.0	0.0	0.0	260	07/24/2012 12:08	0.0	0.0	0.0	0	prepping to install well
261	07/24/2012 12:09	0.0	0.0	0.0	261	07/24/2012 12:09	0.0	0.0	0.0	0	prepping to install well
262	07/24/2012 12:10	0.0	0.0	0.0	262	07/24/2012 12:10	0.0	0.0	0.0	0	prepping to install well
263	07/24/2012 12:11	0.0	0.0	0.0	263	07/24/2012 12:11	0.0	0.0	0.0	0	prepping to install well
264	07/24/2012 12:12	0.0	0.0	0.0	264	07/24/2012 12:12	0.0	0.0	0.0	0	prepping to install well
265	07/24/2012 12:13	0.0	0.0	0.0	265	07/24/2012 12:13	0.0	0.0	0.0	0	prepping to install well
266	07/24/2012 12:14	0.0	0.0	0.0	266	07/24/2012 12:14	0.0	0.0	0.0	0	prepping to install well
267	07/24/2012 12:15	0.0	0.0	0.0	267	07/24/2012 12:15	0.0	0.0	0.0	0	prepping to install well
268	07/24/2012 12:16	0.0	0.0	0.0	268	07/24/2012 12:16	0.0	0.0	0.0	0	prepping to install well
269	07/24/2012 12:17	0.0	0.0	0.0	269	07/24/2012 12:17	0.0	0.0	0.0	0	prepping to install well
270	07/24/2012 12:18	0.0	0.0	0.0	270	07/24/2012 12:18	0.0	0.0	0.0	0	prepping to install well
271	07/24/2012 12:19	0.0	0.0	0.0	271	07/24/2012 12:19	0.0	0.0	0.0	0	prepping to install well
272	07/24/2012 12:20	0.0	0.0	0.0	272	07/24/2012 12:20	0.0	0.0	0.0	0	prepping to install well
273	07/24/2012 12:21	0.0	0.0	0.0	273	07/24/2012 12:21	0.0	0.0	0.0	0	prepping to install well
274	07/24/2012 12:22	0.0	0.0	0.0	274	07/24/2012 12:22	0.0	0.0	0.0	0	prepping to install well
275	07/24/2012 12:23	0.0	0.0	0.0	275	07/24/2012 12:23	0.0	0.0	0.0	0	prepping to install well
276	07/24/2012 12:24	0.0	0.0	0.0	276	07/24/2012 12:24	0.0	0.0	0.0	0	prepping to install well
277	07/24/2012 12:25	0.0	0.0	0.0	277	07/24/2012 12:25	0.0	0.0	0.0	0	prepping to install well
278	07/24/2012 12:26	0.0	0.0	0.0	278	07/24/2012 12:26	0.0	0.0	0.0	0	prepping to install well
279	07/24/2012 12:27	0.0	0.0	0.0	279	07/24/2012 12:27	0.0	0.0	0.0	0	prepping to install well
280	07/24/2012 12:28	0.0	0.0	0.0	280	07/24/2012 12:28	0.0	0.0	0.0	0	prepping to install well
281	07/24/2012 12:29	0.0	0.0	0.0	281	07/24/2012 12:29	0.0	0.0	0.0	0	instaling well
282	07/24/2012 12:30	0.0	0.0	0.0	282	07/24/2012 12:30	0.0	0.0	0.0	0	Pine arrives with two Dust Trak replacements
283	07/24/2012 12:31	0.0	0.0	0.0	283	07/24/2012 12:31	0.0	0.0	0.0	0	instaling well
284	07/24/2012 12:32	0.0	0.0	0.0	284	07/24/2012 12:32	0.0	0.0	0.0	0	instaling well
285	07/24/2012 12:33	0.0	0.0	0.0	285	07/24/2012 12:33	0.0	0.0	0.0	0	instaling well
286	07/24/2012 12:34	0.0	0.0	0.0	286	07/24/2012 12:34	0.0	0.0	0.0	0	instaling well
287	07/24/2012 12:35	0.0	0.0	0.0	287	07/24/2012 12:35	0.0	0.0	0.0	0	instaling well
288	07/24/2012 12:36	0.0	0.0	0.0	288	07/24/2012 12:36	0.0	0.0	0.0	0	instaling well
289	07/24/2012 12:37	0.0	0.0	0.0	289	07/24/2012 12:37	0.0	0.0	0.0	0	instaling well
290	07/24/2012 12:38	0.0	0.0	0.0	290	07/24/2012 12:38	0.0	0.0	0.0	0	instaling well
291	07/24/2012 12:39	0.0	0.0	0.0	291	07/24/2012 12:39	0.0	0.0	0.0	0	instaling well
292	07/24/2012 12:40	0.0	0.0	0.0	292	07/24/2012 12:40	0.0	0.0	0.0	0	instaling well
293	07/24/2012 12:41	0.0	0.0	0.0	293	07/24/2012 12:41	0.0	0.0	0.0	0	instaling well
294	07/24/2012 12:42	0.0	0.0	0.0	294	07/24/2012 12:42	0.0	0.0	0.0	0	instaling well
295	07/24/2012 12:43	0.0	0.0	0.0	295	07/24/2012 12:43	0.0	0.0	0.0	0	instaling well
296	07/24/2012 12:44	0.0	0.0	0.0	296	07/24/2012 12:44	0.0	0.0	0.0	0	instaling well
297	07/24/2012 12:45	0.0	0.0	0.0	297	07/24/2012 12:45	0.0	0.0	0.0	0	instaling well
298	07/24/2012 12:46	0.0	0.0	0.0	298	07/24/2012 12:46	0.0	0.0	0.0	0	instaling well

299	07/24/2012 12:47	0.0	0.0	0.0	299	07/24/2012 12:47	0.0	0.0	0.0	0	instaling well
300	07/24/2012 12:48	0.0	0.0	0.0	300	07/24/2012 12:48	0.0	0.0	0.0	0	instaling well
301	07/24/2012 12:49	0.0	0.0	0.0	301	07/24/2012 12:49	0.0	0.0	0.0	0	instaling well
302	07/24/2012 12:50	0.0	0.0	0.0	302	07/24/2012 12:50	0.0	0.0	0.0	0	instaling well
303	07/24/2012 12:51	0.0	0.0	0.0	303	07/24/2012 12:51	0.0	0.0	0.0	0	instaling well
304	07/24/2012 12:52	0.0	0.0	0.0	304	07/24/2012 12:52	0.0	0.0	0.0	0	instaling well
305	07/24/2012 12:53	0.0	0.0	0.0	305	07/24/2012 12:53	0.0	0.0	0.0	0	instaling well
306	07/24/2012 12:54	0.0	0.0	0.0	306	07/24/2012 12:54	0.0	0.0	0.0	0	instaling well
307	07/24/2012 12:55	0.0	0.0	0.0	307	07/24/2012 12:55	0.0	0.0	0.0	0	instaling well
308	07/24/2012 12:56	0.0	0.0	0.0	308	07/24/2012 12:56	0.0	0.0	0.0	0	instaling well
309	07/24/2012 12:57	0.0	0.0	0.0	309	07/24/2012 12:57	0.0	0.0	0.0	0	instaling well
310	07/24/2012 12:58	0.0	0.0	0.0	310	07/24/2012 12:58	0.0	0.0	0.0	0	instaling well
311	07/24/2012 12:59	0.0	0.0	0.0	311	07/24/2012 12:59	0.0	0.0	0.0	0	instaling well
312	07/24/2012 13:00	0.0	0.0	0.0	312	07/24/2012 13:00	0.0	0.0	0.0	0	instaling well
313	07/24/2012 13:01	0.0	0.0	0.0	313	07/24/2012 13:01	0.0	0.0	0.0	0	instaling well
314	07/24/2012 13:02	0.0	0.0	0.0	314	07/24/2012 13:02	0.0	0.0	0.0	0	instaling well
315	07/24/2012 13:03	0.0	0.0	0.0	315	07/24/2012 13:03	0.0	0.0	0.0	0	instaling well
316	07/24/2012 13:04	0.0	0.0	0.0	316	07/24/2012 13:04	0.0	0.0	0.0	0	instaling well
317	07/24/2012 13:05	0.0	0.0	0.0	317	07/24/2012 13:05	0.0	0.0	0.0	0	instaling well
318	07/24/2012 13:06	0.0	0.0	0.0	318	07/24/2012 13:06	0.0	0.0	0.0	0	instaling well
319	07/24/2012 13:07	0.0	0.0	0.0	319	07/24/2012 13:07	0.0	0.0	0.0	0	instaling well
320	07/24/2012 13:08	0.0	0.0	0.0	320	07/24/2012 13:08	0.0	0.0	0.0	0	instaling well
321	07/24/2012 13:09	0.0	0.0	0.0	321	07/24/2012 13:09	0.0	0.0	0.0	0	instaling well
322	07/24/2012 13:10	0.0	0.0	0.0	322	07/24/2012 13:10	0.0	0.0	0.0	0	instaling well
323	07/24/2012 13:11	0.0	0.0	0.0	323	07/24/2012 13:11	0.0	0.0	0.0	0	instaling well
324	07/24/2012 13:12	0.0	0.0	0.0	324	07/24/2012 13:12	0.0	0.0	0.0	0	instaling well
325	07/24/2012 13:13	0.0	0.0	0.0	325	07/24/2012 13:13	0.0	0.0	0.0	0	instaling well
326	07/24/2012 13:14	0.0	0.0	0.0	326	07/24/2012 13:14	0.0	0.0	0.0	0	instaling well
327	07/24/2012 13:15	0.0	0.0	0.0	327	07/24/2012 13:15	0.0	0.0	0.0	0	instaling well
328	07/24/2012 13:16	0.0	0.0	0.0	328	07/24/2012 13:16	0.0	0.0	0.0	0	instaling well
329	07/24/2012 13:17	0.0	0.0	0.0	329	07/24/2012 13:17	0.0	0.0	0.0	0	instaling well
330	07/24/2012 13:18	0.0	0.0	0.0	330	07/24/2012 13:18	0.0	0.0	0.0	0	instaling well
331	07/24/2012 13:19	0.0	0.0	0.0	331	07/24/2012 13:19	0.0	0.0	0.0	0	instaling well
332	07/24/2012 13:20	0.0	0.0	0.0	332	07/24/2012 13:20	0.0	0.0	0.0	0	instaling well
333	07/24/2012 13:21	0.0	0.0	0.0	333	07/24/2012 13:21	0.0	0.0	0.0	0	instaling well
334	07/24/2012 13:22	0.0	0.0	0.0	334	07/24/2012 13:22	0.0	0.0	0.0	0	instaling well
335	07/24/2012 13:23	0.0	0.0	0.0	335	07/24/2012 13:23	0.0	0.0	0.0	0	instaling well
336	07/24/2012 13:24	0.0	0.0	0.0	336	07/24/2012 13:24	0.0	0.0	0.0	0	instaling well
337	07/24/2012 13:25	0.0	0.0	0.0	337	07/24/2012 13:25	0.0	0.0	0.0	0	instaling well
338	07/24/2012 13:26	0.0	0.0	0.0	338	07/24/2012 13:26	0.0	0.0	0.0	0	instaling well
339	07/24/2012 13:27	0.0	0.0	0.0	339	07/24/2012 13:27	0.0	0.0	0.0	0	instaling well
340	07/24/2012 13:28	0.0	0.0	0.0	340	07/24/2012 13:28	0.0	0.0	0.0	0	instaling well
341	07/24/2012 13:29	0.0	0.0	0.0	341	07/24/2012 13:29	0.0	0.0	0.0	0	instaling well
342	07/24/2012 13:30	0.0	0.0	0.0	342	07/24/2012 13:30	0.0	0.0	0.0	0	instaling well
343	07/24/2012 13:31	0.0	0.0	0.0	343	07/24/2012 13:31	0.0	0.0	0.0	0	instaling well
344	07/24/2012 13:32	0.0	0.0	0.0	344	07/24/2012 13:32	0.0	0.0	0.0	0	instaling well
345	07/24/2012 13:33	0.0	0.0	0.0	345	07/24/2012 13:33	0.0	0.0	0.0	0	instaling well
346	07/24/2012 13:34	0.0	0.0	0.0	346	07/24/2012 13:34	0.0	0.0	0.0	0	instaling well
347	07/24/2012 13:35	0.0	0.0	0.0	347	07/24/2012 13:35	0.0	0.0	0.0	0	instaling well
348	07/24/2012 13:36	0.0	0.0	0.0	348	07/24/2012 13:36	0.0	0.0	0.0	0	instaling well
349	07/24/2012 13:37	0.0	0.0	0.0	349	07/24/2012 13:37	0.0	0.0	0.0	0	instaling well
350	07/24/2012 13:38	0.0	0.0	0.0	350	07/24/2012 13:38	0.0	0.0	0.0	0	instaling well
351	07/24/2012 13:39	0.0	0.0	0.0	351	07/24/2012 13:39	0.0	0.0	0.0	0	instaling well
352	07/24/2012 13:40	0.0	0.0	0.0	352	07/24/2012 13:40	0.0	0.0	0.0	0	instaling well
353	07/24/2012 13:41	0.0	0.0	0.0	353	07/24/2012 13:41	0.0	0.0	0.0	0	instaling well
354	07/24/2012 13:42	0.0	0.0	0.0	354	07/24/2012 13:42	0.0	0.0	0.0	0	instaling well
355	07/24/2012 13:43	0.0	0.0	0.0	355	07/24/2012 13:43	0.0	0.0	0.0	0	instaling well
356	07/24/2012 13:44	0.0	0.0	0.0	356	07/24/2012 13:44	0.0	0.0	0.0	0	instaling well
357	07/24/2012 13:45	0.0	0.0	0.0	357	07/24/2012 13:45	0.0	0.0	0.0	0	instaling well
358	07/24/2012 13:46	0.0	0.0	0.0	358	07/24/2012 13:46	0.0	0.0	0.0	0	instaling well
359	07/24/2012 13:47	0.0	0.0	0.0	359	07/24/2012 13:47	0.0	0.0	0.0	0	instaling well
360	07/24/2012 13:48	0.0	0.0	0.0	360	07/24/2012 13:48	0.0	0.0	0.0	0	instaling well

361	07/24/2012 13:49	0.0	0.0	0.0	361	07/24/2012 13:49	0.0	0.0	0.0	0	instaling well
362	07/24/2012 13:50	0.0	0.0	0.0	362	07/24/2012 13:50	0.0	0.0	0.0	0	instaling well
363	07/24/2012 13:51	0.0	0.0	0.0	363	07/24/2012 13:51	0.0	0.0	0.0	0	instaling well
364	07/24/2012 13:52	0.0	0.0	0.0	364	07/24/2012 13:52	0.0	0.0	0.0	0	instaling well
365	07/24/2012 13:53	0.0	0.0	0.0	365	07/24/2012 13:53	0.0	0.0	0.0	0	instaling well
366	07/24/2012 13:54	0.0	0.0	0.0	366	07/24/2012 13:54	0.0	0.0	0.0	0	instaling well
367	07/24/2012 13:55	0.0	0.0	0.0	367	07/24/2012 13:55	0.0	0.0	0.0	0	instaling well
368	07/24/2012 13:56	0.0	0.0	0.0	368	07/24/2012 13:56	0.0	0.0	0.0	0	instaling well
369	07/24/2012 13:57	0.0	0.0	0.0	369	07/24/2012 13:57	0.0	0.0	0.0	0	instaling well
370	07/24/2012 13:58	0.0	0.0	0.0	370	07/24/2012 13:58	0.0	0.0	0.0	0	instaling well
371	07/24/2012 13:59	0.0	0.0	0.0	371	07/24/2012 13:59	0.0	0.0	0.0	0	instaling well
372	07/24/2012 14:00	0.0	0.0	0.0	372	07/24/2012 14:00	0.0	0.0	0.0	0	instaling well
373	07/24/2012 14:01	0.0	0.0	0.0	373	07/24/2012 14:01	0.0	0.0	0.0	0	instaling well
374	07/24/2012 14:02	0.0	0.0	0.0	374	07/24/2012 14:02	0.0	0.0	0.0	0	instaling well
375	07/24/2012 14:03	0.0	0.0	0.0	375	07/24/2012 14:03	0.0	0.0	0.0	0	instaling well
376	07/24/2012 14:04	0.0	0.0	0.0	376	07/24/2012 14:04	0.0	0.0	0.0	0	instaling well
377	07/24/2012 14:05	0.0	0.0	0.0	377	07/24/2012 14:05	0.0	0.0	0.0	0	instaling well
378	07/24/2012 14:06	0.0	0.0	0.0	378	07/24/2012 14:06	0.0	0.0	0.0	0	instaling well
379	07/24/2012 14:07	0.0	0.0	0.0	379	07/24/2012 14:07	0.0	0.0	0.0	0	instaling well
380	07/24/2012 14:08	0.0	0.0	0.0	380	07/24/2012 14:08	0.0	0.0	0.0	0	instaling well
381	07/24/2012 14:09	0.0	0.0	0.0	381	07/24/2012 14:09	0.0	0.0	0.0	0	instaling well
382	07/24/2012 14:10	0.0	0.0	0.0	382	07/24/2012 14:10	0.0	0.0	0.0	0	instaling well
383	07/24/2012 14:11	0.0	0.0	0.0	383	07/24/2012 14:11	0.0	0.0	0.0	0	instaling well
384	07/24/2012 14:12	0.0	0.0	0.0	384	07/24/2012 14:12	0.0	0.0	0.0	0	instaling well
385	07/24/2012 14:13	0.0	0.0	0.0	385	07/24/2012 14:13	0.0	0.0	0.0	0	instaling well
386	07/24/2012 14:14	0.0	0.0	0.0	386	07/24/2012 14:14	0.0	0.0	0.0	0	instaling well
387	07/24/2012 14:15	0.0	0.0	0.0	387	07/24/2012 14:15	0.0	0.0	0.0	0	instaling well
388	07/24/2012 14:16	0.0	0.0	0.0	388	07/24/2012 14:16	0.0	0.0	0.0	0	instaling well
389	07/24/2012 14:17	0.0	0.0	0.0	389	07/24/2012 14:17	0.0	0.0	0.0	0	instaling well
390	07/24/2012 14:18	0.0	0.0	0.0	390	07/24/2012 14:18	0.0	0.0	0.0	0	instaling well
391	07/24/2012 14:19	0.0	0.0	0.0	391	07/24/2012 14:19	0.0	0.0	0.0	0	instaling well
392	07/24/2012 14:20	0.0	0.0	0.0	392	07/24/2012 14:20	0.0	0.0	0.0	0	instaling well
393	07/24/2012 14:21	0.0	0.0	0.0	393	07/24/2012 14:21	0.0	0.0	0.0	0	instaling well
394	07/24/2012 14:22	0.0	0.0	0.0	394	07/24/2012 14:22	0.0	0.0	0.0	0	instaling well
395	07/24/2012 14:23	0.0	0.0	0.0	395	07/24/2012 14:23	0.0	0.0	0.0	0	instaling well
396	07/24/2012 14:24	0.0	0.0	0.0	396	07/24/2012 14:24	0.0	0.0	0.0	0	instaling well
397	07/24/2012 14:25	0.0	0.0	0.0	397	07/24/2012 14:25	0.0	0.0	0.0	0	instaling well
398	07/24/2012 14:26	0.0	0.0	0.0	398	07/24/2012 14:26	0.0	0.0	0.0	0	instaling well
399	07/24/2012 14:27	0.0	0.0	0.0	399	07/24/2012 14:27	0.0	0.0	0.0	0	instaling well
400	07/24/2012 14:28	0.0	0.0	0.0	400	07/24/2012 14:28	0.0	0.0	0.0	0	instaling well
401	07/24/2012 14:29	0.0	0.0	0.0	401	07/24/2012 14:29	0.0	0.0	0.0	0	instaling well
402	07/24/2012 14:30	0.0	0.0	0.0	402	07/24/2012 14:30	0.0	0.0	0.0	0	instaling well
403	07/24/2012 14:31	0.0	0.0	0.0	403	07/24/2012 14:31	0.0	0.0	0.0	0	instaling well
404	07/24/2012 14:32	0.0	0.0	0.0	404	07/24/2012 14:32	0.0	0.0	0.0	0	instaling well
405	07/24/2012 14:33	0.0	0.0	0.0	405	07/24/2012 14:33	0.0	0.0	0.0	0	instaling well
406	07/24/2012 14:34	0.0	0.0	0.0	406	07/24/2012 14:34	0.0	0.0	0.0	0	instaling well
407	07/24/2012 14:35	0.0	0.0	0.0	407	07/24/2012 14:35	0.0	0.0	0.0	0	instaling well
408	07/24/2012 14:36	0.0	0.0	0.0	408	07/24/2012 14:36	0.0	0.0	0.0	0	instaling well
409	07/24/2012 14:37	0.0	0.0	0.0	409	07/24/2012 14:37	0.0	0.0	0.0	0	instaling well
410	07/24/2012 14:38	0.0	0.0	0.0	410	07/24/2012 14:38	0.0	0.0	0.0	0	instaling well
411	07/24/2012 14:39	0.0	0.0	0.0	411	07/24/2012 14:39	0.0	0.0	0.0	0	instaling well
412	07/24/2012 14:40	0.0	0.0	0.0	412	07/24/2012 14:40	0.0	0.0	0.0	0	instaling well
413	07/24/2012 14:41	0.0	0.0	0.0	413	07/24/2012 14:41	0.0	0.0	0.0	0	instaling well
414	07/24/2012 14:42	0.0	0.0	0.0	414	07/24/2012 14:42	0.0	0.0	0.0	0	instaling well
415	07/24/2012 14:43	0.0	0.0	0.0	415	07/24/2012 14:43	0.0	0.0	0.0	0	instaling well
416	07/24/2012 14:44	0.0	0.0	0.0	416	07/24/2012 14:44	0.0	0.0	0.0	0	instaling well
417	07/24/2012 14:45	0.0	0.0	0.0	417	07/24/2012 14:45	0.0	0.0	0.0	0	instaling well
418	07/24/2012 14:46	0.0	0.0	0.0	418	07/24/2012 14:46	0.0	0.0	0.0	0	instaling well
419	07/24/2012 14:47	0.0	0.0	0.0	419	07/24/2012 14:47	0.0	0.0	0.0	0	instaling well
420	07/24/2012 14:48	0.0	0.0	0.0	420	07/24/2012 14:48	0.0	0.0	0.0	0	instaling well
421	07/24/2012 14:49	0.0	0.0	0.0	421	07/24/2012 14:49	0.0	0.0	0.0	0	instaling well
422	07/24/2012 14:50	0.0	0.0	0.0	422	07/24/2012 14:50	0.0	0.0	0.0	0	instaling well

423	07/24/2012 14:51	0.0	0.0	0.0	423	07/24/2012 14:51	0.0	0.0	0.0	0	instaling well
424	07/24/2012 14:52	0.0	0.0	0.0	424	07/24/2012 14:52	0.0	0.0	0.0	0	instaling well
425	07/24/2012 14:53	0.0	0.0	0.0	425	07/24/2012 14:53	0.0	0.0	0.0	0	instaling well
426	07/24/2012 14:54	0.0	0.0	0.0	426	07/24/2012 14:54	0.0	0.0	0.0	0	instaling well
427	07/24/2012 14:55	0.0	0.0	0.0	427	07/24/2012 14:55	0.0	0.0	0.0	0	instaling well
428	07/24/2012 14:56	0.0	0.0	0.0	428	07/24/2012 14:56	0.0	0.0	0.0	0	instaling well
429	07/24/2012 14:57	0.0	0.0	0.0	429	07/24/2012 14:57	0.0	0.0	0.0	0	instaling well
430	07/24/2012 14:58	0.0	0.0	0.0	430	07/24/2012 14:58	0.0	0.0	0.0	0	instaling well
431	07/24/2012 14:59	0.0	0.0	0.0	431	07/24/2012 14:59	0.0	0.0	0.0	0	instaling well
432	07/24/2012 15:00	0.0	0.0	0.0	432	07/24/2012 15:00	0.0	0.0	0.0	0	instaling well
433	07/24/2012 15:01	0.0	0.0	0.0	433	07/24/2012 15:01	0.0	0.0	0.0	0	instaling well
434	07/24/2012 15:02	0.0	0.0	0.0	434	07/24/2012 15:02	0.0	0.0	0.0	0	instaling well
435	07/24/2012 15:03	0.0	0.0	0.0	435	07/24/2012 15:03	0.0	0.0	0.0	0	instaling well
436	07/24/2012 15:04	0.0	0.0	0.0	436	07/24/2012 15:04	0.0	0.0	0.0	0	instaling well
437	07/24/2012 15:05	0.0	0.0	0.0	437	07/24/2012 15:05	0.0	0.0	0.0	0	instaling well
438	07/24/2012 15:06	0.0	0.0	0.0	438	07/24/2012 15:06	0.0	0.0	0.0	0	instaling well
439	07/24/2012 15:07	0.0	0.0	0.0	439	07/24/2012 15:07	0.0	0.0	0.0	0	instaling well
440	07/24/2012 15:08	0.0	0.0	0.0	440	07/24/2012 15:08	0.0	0.0	0.0	0	instaling well
441	07/24/2012 15:09	0.0	0.0	0.0	441	07/24/2012 15:09	0.0	0.0	0.0	0	instaling well
442	07/24/2012 15:10	0.0	0.0	0.0	442	07/24/2012 15:10	0.0	0.0	0.0	0	instaling well
443	07/24/2012 15:11	0.0	0.0	0.0	443	07/24/2012 15:11	0.0	0.0	0.0	0	instaling well
444	07/24/2012 15:12	0.0	0.0	0.0	444	07/24/2012 15:12	0.0	0.0	0.0	0	instaling well
445	07/24/2012 15:13	0.0	0.0	0.0	445	07/24/2012 15:13	0.0	0.0	0.0	0	instaling well
446	07/24/2012 15:14	0.0	0.0	0.0	446	07/24/2012 15:14	0.0	0.0	0.0	0	instaling well
447	07/24/2012 15:15	0.0	0.0	0.0	447	07/24/2012 15:15	0.0	0.0	0.0	0	instaling well
448	07/24/2012 15:16	0.0	0.0	0.0	448	07/24/2012 15:16	0.0	0.0	0.0	0	instaling well
449	07/24/2012 15:17	0.0	0.0	0.0	449	07/24/2012 15:17	0.0	0.0	0.0	0	instaling well
450	07/24/2012 15:18	0.0	0.0	0.0	450	07/24/2012 15:18	0.0	0.0	0.0	0	instaling well
451	07/24/2012 15:19	0.0	0.0	0.0	451	07/24/2012 15:19	0.0	0.0	0.0	0	instaling well
452	07/24/2012 15:20	0.0	0.0	0.0	452	07/24/2012 15:20	0.0	0.0	0.0	0	instaling well
453	07/24/2012 15:21	0.0	0.0	0.0	453	07/24/2012 15:21	0.0	0.0	0.0	0	instaling well
					454	07/24/2012 15:22	0.0	0.0	0.0	0	instaling well
					455	07/24/2012 15:23	0.0	0.0	0.0	0	instaling well
					456	07/24/2012 15:24	0.0	0.0	0.0	0	instaling well
					457	07/24/2012 15:25	0.0	0.0	0.0	0	instaling well

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000147
Data Points: 197 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/25/2012 09:09

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	07/25/2012 09:11	0.3	0.3	0.6
2	07/25/2012 09:12	0.1	0.2	0.3
3	07/25/2012 09:13	0.0	0.0	0.1
4	07/25/2012 09:14	0.0	0.0	0.1
5	07/25/2012 09:15	0.0	0.0	0.0
6	07/25/2012 09:16	0.0	0.0	0.0
7	07/25/2012 09:17	0.0	0.0	0.0
8	07/25/2012 09:18	0.0	0.0	0.0
9	07/25/2012 09:19	0.0	0.0	0.0
10	07/25/2012 09:20	0.0	0.0	0.0
11	07/25/2012 09:21	0.0	0.0	0.0
12	07/25/2012 09:22	0.0	0.0	0.0
13	07/25/2012 09:23	0.0	0.0	0.0
14	07/25/2012 09:24	0.0	0.0	0.0
15	07/25/2012 09:25	0.0	0.0	0.0
16	07/25/2012 09:26	0.0	0.0	0.0
17	07/25/2012 09:27	0.0	0.0	0.0
18	07/25/2012 09:28	0.0	0.0	0.0
19	07/25/2012 09:29	0.0	0.0	0.0
20	07/25/2012 09:30	0.0	0.0	0.0
21	07/25/2012 09:31	0.0	0.0	0.0
22	07/25/2012 09:32	0.0	0.0	0.0
23	07/25/2012 09:33	0.0	0.0	0.0
24	07/25/2012 09:34	0.0	0.0	0.0
25	07/25/2012 09:35	0.0	0.0	0.0
26	07/25/2012 09:36	0.0	0.0	0.0
27	07/25/2012 09:37	0.0	0.0	0.0
28	07/25/2012 09:38	0.0	0.0	0.0
29	07/25/2012 09:39	0.0	0.0	0.0
30	07/25/2012 09:40	0.0	0.0	0.0
31	07/25/2012 09:41	0.0	0.0	0.0
32	07/25/2012 09:42	0.0	0.0	0.0
33	07/25/2012 09:43	0.0	0.0	0.0
34	07/25/2012 09:44	0.0	0.0	0.0
35	07/25/2012 09:45	0.0	0.0	0.0
36	07/25/2012 09:46	0.0	0.0	0.0
37	07/25/2012 09:47	0.0	0.0	0.0
38	07/25/2012 09:48	0.0	0.0	0.0
39	07/25/2012 09:49	0.0	0.0	0.0
40	07/25/2012 09:50	0.0	0.0	0.0
41	07/25/2012 09:51	0.0	0.0	0.0
42	07/25/2012 09:52	0.0	0.0	0.0
43	07/25/2012 09:53	0.0	0.0	0.0
44	07/25/2012 09:54	0.0	0.0	0.0
45	07/25/2012 09:55	0.0	0.0	0.0
46	07/25/2012 09:56	0.0	0.0	0.0
47	07/25/2012 09:57	0.0	0.0	0.0
48	07/25/2012 09:58	0.0	0.0	0.0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000147
Data Points: 197 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/25/2012 09:09

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	Difference	Comments
1	07/25/2012 09:11	0.3	0.3	0.6	0	mobing for SB-26
2	07/25/2012 09:12	0.1	0.2	0.3	0	mobing for SB-26
3	07/25/2012 09:13	0.0	0.0	0.1	0	mobing for SB-26
4	07/25/2012 09:14	0.0	0.0	0.1	0	mobing for SB-26
5	07/25/2012 09:15	0.0	0.0	0.0	0	mobing for SB-26
6	07/25/2012 09:16	0.0	0.0	0.0	0	mobing for SB-26
7	07/25/2012 09:17	0.0	0.0	0.0	0	mobing for SB-26
8	07/25/2012 09:18	0.0	0.0	0.0	0	mobing for SB-26
9	07/25/2012 09:19	0.0	0.0	0.0	0	mobing for SB-26
10	07/25/2012 09:20	0.0	0.0	0.0	0	mobing for SB-26
11	07/25/2012 09:21	0.0	0.0	0.0	0	mobing for SB-26
12	07/25/2012 09:22	0.0	0.0	0.0	0	mobing for SB-26
13	07/25/2012 09:23	0.0	0.0	0.0	0	mobing for SB-26
14	07/25/2012 09:24	0.0	0.0	0.0	0	mobing for SB-26
15	07/25/2012 09:25	0.0	0.0	0.0	0	mobing for SB-26
16	07/25/2012 09:26	0.0	0.0	0.0	0	mobing for SB-26
17	07/25/2012 09:27	0.0	0.0	0.0	0	mobing for SB-26
18	07/25/2012 09:28	0.0	0.0	0.0	0	mobing for SB-26
19	07/25/2012 09:29	0.0	0.0	0.0	0	mobing for SB-26
20	07/25/2012 09:30	0.0	0.0	0.0	0	mobing for SB-26
21	07/25/2012 09:31	0.0	0.0	0.0	0	mobing for SB-26
22	07/25/2012 09:32	0.0	0.0	0.0	0	mobing for SB-26
23	07/25/2012 09:33	0.0	0.0	0.0	0	mobing for SB-26
24	07/25/2012 09:34	0.0	0.0	0.0	0	mobing for SB-26
25	07/25/2012 09:35	0.0	0.0	0.0	0	mobing for SB-26
26	07/25/2012 09:36	0.0	0.0	0.0	0	mobing for SB-26
27	07/25/2012 09:37	0.0	0.0	0.0	0	mobing for SB-26
28	07/25/2012 09:38	0.0	0.0	0.0	0	mobing for SB-26
29	07/25/2012 09:39	0.0	0.0	0.0	0	mobing for SB-26
30	07/25/2012 09:40	0.0	0.0	0.0	0	Jack hammering SB-26
31	07/25/2012 09:41	0.0	0.0	0.0	0	Jack hammering SB-26
32	07/25/2012 09:42	0.0	0.0	0.0	0	Jack hammering SB-26
33	07/25/2012 09:43	0.0	0.0	0.0	0	Jack hammering SB-26
34	07/25/2012 09:44	0.0	0.0	0.0	0	Jack hammering SB-26
35	07/25/2012 09:45	0.0	0.0	0.0	0	Jack hammering SB-26
36	07/25/2012 09:46	0.0	0.0	0.0	0	Jack hammering SB-26
37	07/25/2012 09:47	0.0	0.0	0.0	0	Jack hammering SB-26
38	07/25/2012 09:48	0.0	0.0	0.0	0	Jack hammering SB-26
39	07/25/2012 09:49	0.0	0.0	0.0	0	Jack hammering SB-26
40	07/25/2012 09:50	0.0	0.0	0.0	0	Jack hammering SB-26
41	07/25/2012 09:51	0.0	0.0	0.0	0	Jack hammering SB-26
42	07/25/2012 09:52	0.0	0.0	0.0	0	Jack hammering SB-26
43	07/25/2012 09:53	0.0	0.0	0.0	0	Jack hammering SB-26
44	07/25/2012 09:54	0.0	0.0	0.0	0	Jack hammering SB-26
45	07/25/2012 09:55	0.0	0.0	0.0	0	Jack hammering SB-26
46	07/25/2012 09:56	0.0	0.0	0.0	0	Air vaccing for pre-clearance
47	07/25/2012 09:57	0.0	0.0	0.0	0	Air vaccing for pre-clearance
48	07/25/2012 09:58	0.0	0.0	0.0	0	Air vaccing for pre-clearance

49	07/25/2012 09:59	0.0	0.0	0.0	49	07/25/2012 09:59	0.0	0.0	0.0	0	Air vaccing for pre-clearance
50	07/25/2012 10:00	0.0	0.0	0.0	50	07/25/2012 10:00	0.0	0.0	0.0	0	Air vaccing for pre-clearance
51	07/25/2012 10:01	0.0	0.0	0.0	51	07/25/2012 10:01	0.0	0.0	0.0	0	Air vaccing for pre-clearance
52	07/25/2012 10:02	0.0	0.0	0.0	52	07/25/2012 10:02	0.0	0.0	0.0	0	Air vaccing for pre-clearance
53	07/25/2012 10:03	0.0	0.0	0.0	53	07/25/2012 10:03	0.0	0.0	0.0	0	Air vaccing for pre-clearance
54	07/25/2012 10:04	0.0	0.0	0.0	54	07/25/2012 10:04	0.0	0.0	0.0	0	Air vaccing for pre-clearance
55	07/25/2012 10:05	0.0	0.0	0.0	55	07/25/2012 10:05	0.0	0.0	0.0	0	Air vaccing for pre-clearance
56	07/25/2012 10:06	0.0	0.0	0.0	56	07/25/2012 10:06	0.0	0.0	0.0	0	Air vaccing for pre-clearance
57	07/25/2012 10:07	0.0	0.0	0.0	57	07/25/2012 10:07	0.0	0.0	0.0	0	Air vaccing for pre-clearance
58	07/25/2012 10:08	0.0	0.0	0.0	58	07/25/2012 10:08	0.0	0.0	0.0	0	Air vaccing for pre-clearance
59	07/25/2012 10:09	0.0	0.0	0.0	59	07/25/2012 10:09	0.0	0.0	0.0	0	Air vaccing for pre-clearance
60	07/25/2012 10:10	0.0	0.0	0.0	60	07/25/2012 10:10	0.0	0.0	0.0	0	Air vaccing for pre-clearance
61	07/25/2012 10:11	0.0	0.0	0.0	61	07/25/2012 10:11	0.0	0.0	0.0	0	Air vaccing for pre-clearance
62	07/25/2012 10:12	0.0	0.0	0.0	62	07/25/2012 10:12	0.0	0.0	0.0	0	Air vaccing for pre-clearance
63	07/25/2012 10:13	0.0	0.0	0.0	63	07/25/2012 10:13	0.0	0.0	0.0	0	Air vaccing for pre-clearance
64	07/25/2012 10:14	0.0	0.0	0.0	64	07/25/2012 10:14	0.0	0.0	0.0	0	Air vaccing for pre-clearance
65	07/25/2012 10:15	0.0	0.0	0.0	65	07/25/2012 10:15	0.0	0.0	0.0	0	Air vaccing for pre-clearance
66	07/25/2012 10:16	0.0	0.0	0.0	66	07/25/2012 10:16	0.0	0.0	0.0	0	Air vaccing for pre-clearance
67	07/25/2012 10:17	0.0	0.0	0.0	67	07/25/2012 10:17	0.0	0.0	0.0	0	Air vaccing for pre-clearance
68	07/25/2012 10:18	0.0	0.0	0.0	68	07/25/2012 10:18	0.0	0.0	0.0	0	Air vaccing for pre-clearance
69	07/25/2012 10:19	0.0	0.0	0.0	69	07/25/2012 10:19	0.0	0.0	0.0	0	Air vaccing for pre-clearance
70	07/25/2012 10:20	0.0	0.0	0.0	70	07/25/2012 10:20	0.0	0.0	0.0	0	Air vaccing for pre-clearance
71	07/25/2012 10:21	0.0	0.0	0.0	71	07/25/2012 10:21	0.0	0.0	0.0	0	Air vaccing for pre-clearance
72	07/25/2012 10:22	0.0	0.0	0.0	72	07/25/2012 10:22	0.0	0.0	0.0	0	Air vaccing for pre-clearance
73	07/25/2012 10:23	0.0	0.0	0.0	73	07/25/2012 10:23	0.0	0.0	0.0	0	Air vaccing for pre-clearance
74	07/25/2012 10:24	0.0	0.0	0.0	74	07/25/2012 10:24	0.0	0.0	0.0	0	Air vaccing for pre-clearance
75	07/25/2012 10:25	0.0	0.0	0.0	75	07/25/2012 10:25	0.0	0.0	0.0	0	Air vaccing for pre-clearance
76	07/25/2012 10:26	0.0	0.0	0.0	76	07/25/2012 10:26	0.0	0.0	0.0	0	Air vaccing for pre-clearance
77	07/25/2012 10:27	0.0	0.0	0.0	77	07/25/2012 10:27	0.0	0.0	0.0	0	Air vaccing for pre-clearance
78	07/25/2012 10:28	0.0	0.0	0.0	78	07/25/2012 10:28	0.0	0.0	0.0	0	Air vaccing for pre-clearance
79	07/25/2012 10:29	0.0	0.0	0.0	79	07/25/2012 10:29	0.0	0.0	0.0	0	Air vaccing for pre-clearance
80	07/25/2012 10:30	0.0	0.0	0.0	80	07/25/2012 10:30	0.0	0.0	0.0	0	Air vaccing for pre-clearance
81	07/25/2012 10:31	0.0	0.0	0.0	81	07/25/2012 10:31	0.0	0.0	0.0	0	Air vaccing for pre-clearance
82	07/25/2012 10:32	0.0	0.0	0.0	82	07/25/2012 10:32	0.0	0.0	0.0	0	Air vaccing for pre-clearance
83	07/25/2012 10:33	0.0	0.0	0.0	83	07/25/2012 10:33	0.0	0.0	0.0	0	Air vaccing for pre-clearance
84	07/25/2012 10:34	0.0	0.0	0.0	84	07/25/2012 10:34	0.0	0.0	0.0	0	Air vaccing for pre-clearance
85	07/25/2012 10:35	0.0	0.0	0.0	85	07/25/2012 10:35	0.0	0.0	0.0	0	Air vaccing for pre-clearance
86	07/25/2012 10:36	0.0	0.0	0.0	86	07/25/2012 10:36	0.0	0.0	0.0	0	Air vaccing for pre-clearance
87	07/25/2012 10:37	0.0	0.0	0.0	87	07/25/2012 10:37	0.0	0.0	0.0	0	Air vaccing for pre-clearance
88	07/25/2012 10:38	0.0	0.0	0.0	88	07/25/2012 10:38	0.0	0.0	0.0	0	Air vaccing for pre-clearance
89	07/25/2012 10:39	0.0	0.0	0.0	89	07/25/2012 10:39	0.0	0.0	0.0	0	Air vaccing for pre-clearance
90	07/25/2012 10:40	0.0	0.0	0.0	90	07/25/2012 10:40	0.0	0.0	0.0	0	Air vaccing for pre-clearance
91	07/25/2012 10:41	0.0	0.0	0.0	91	07/25/2012 10:41	0.0	0.0	0.0	0	Air vaccing for pre-clearance
92	07/25/2012 10:42	0.0	0.0	0.0	92	07/25/2012 10:42	0.0	0.0	0.0	0	Air vaccing for pre-clearance
93	07/25/2012 10:43	0.0	0.0	0.0	93	07/25/2012 10:43	0.0	0.0	0.0	0	Air vaccing for pre-clearance
94	07/25/2012 10:44	0.0	0.0	0.0	94	07/25/2012 10:44	0.0	0.0	0.0	0	Air vaccing for pre-clearance
95	07/25/2012 10:45	0.0	0.0	0.0	95	07/25/2012 10:45	0.0	0.0	0.0	0	Air vaccing for pre-clearance
96	07/25/2012 10:46	0.0	0.0	0.0	96	07/25/2012 10:46	0.0	0.0	0.0	0	Air vaccing for pre-clearance
97	07/25/2012 10:47	0.0	0.0	0.0	97	07/25/2012 10:47	0.0	0.0	0.0	0	Air vaccing for pre-clearance
98	07/25/2012 10:48	0.0	0.0	0.0	98	07/25/2012 10:48	0.0	0.0	0.0	0	Air vaccing for pre-clearance
99	07/25/2012 10:49	0.0	0.0	0.0	99	07/25/2012 10:49	0.0	0.0	0.0	0	Air vaccing for pre-clearance
100	07/25/2012 10:50	0.0	0.0	0.0	100	07/25/2012 10:50	0.0	0.0	0.0	0	finished pre-clearance
101	07/25/2012 10:51	0.0	0.0	0.0	101	07/25/2012 10:51	0.0	0.0	0.0	0	no activity on hole while drillers
102	07/25/2012 10:52	0.0	0.0	0.0	102	07/25/2012 10:52	0.0	0.0	0.0	0	move equipment around
103	07/25/2012 10:53	0.0	0.0	0.0	103	07/25/2012 10:53	0.0	0.0	0.0	0	
104	07/25/2012 10:54	0.0	0.0	0.0	104	07/25/2012 10:54	0.0	0.0	0.0	0	
105	07/25/2012 10:55	0.0	0.0	0.0	105	07/25/2012 10:55	0.0	0.0	0.0	0	
106	07/25/2012 10:56	0.0	0.0	0.0	106	07/25/2012 10:56	0.0	0.0	0.0	0	
107	07/25/2012 10:57	0.0	0.0	0.0	107	07/25/2012 10:57	0.0	0.0	0.0	0	
108	07/25/2012 10:58	0.0	0.0	0.0	108	07/25/2012 10:58	0.0	0.0	0.0	0	

109	07/25/2012 10:59	0.0	0.0	0.0	109	07/25/2012 10:59	0.0	0.0	0.0	0
110	07/25/2012 11:00	0.0	0.0	0.0	110	07/25/2012 11:00	0.0	0.0	0.0	0
111	07/25/2012 11:01	0.0	0.0	0.0	111	07/25/2012 11:01	0.0	0.0	0.0	0
112	07/25/2012 11:02	0.0	0.0	0.0	112	07/25/2012 11:02	0.0	0.0	0.0	0
113	07/25/2012 11:03	0.0	0.0	0.0	113	07/25/2012 11:03	0.0	0.0	0.0	0
114	07/25/2012 11:04	0.0	0.0	0.0	114	07/25/2012 11:04	0.0	0.0	0.0	0
115	07/25/2012 11:05	0.0	0.0	0.0	115	07/25/2012 11:05	0.0	0.0	0.0	0
116	07/25/2012 11:06	0.0	0.0	0.0	116	07/25/2012 11:06	0.0	0.0	0.0	0
117	07/25/2012 11:07	0.0	0.0	0.0	117	07/25/2012 11:07	0.0	0.0	0.0	0
118	07/25/2012 11:08	0.0	0.0	0.0	118	07/25/2012 11:08	0.0	0.0	0.0	0
119	07/25/2012 11:09	0.0	0.0	0.0	119	07/25/2012 11:09	0.0	0.0	0.0	0
120	07/25/2012 11:10	0.0	0.0	0.0	120	07/25/2012 11:10	0.0	0.0	0.0	0
121	07/25/2012 11:11	0.0	0.0	0.0	121	07/25/2012 11:11	0.0	0.0	0.0	0
122	07/25/2012 11:12	0.0	0.0	0.0	122	07/25/2012 11:12	0.0	0.0	0.0	0
123	07/25/2012 11:13	0.0	0.0	0.0	123	07/25/2012 11:13	0.0	0.0	0.0	0
124	07/25/2012 11:14	0.0	0.0	0.0	124	07/25/2012 11:14	0.0	0.0	0.0	0
125	07/25/2012 11:15	0.0	0.0	0.0	125	07/25/2012 11:15	0.0	0.0	0.0	0
126	07/25/2012 11:16	0.0	0.0	0.0	126	07/25/2012 11:16	0.0	0.0	0.0	0
127	07/25/2012 11:17	0.0	0.0	0.0	127	07/25/2012 11:17	0.0	0.0	0.0	0
128	07/25/2012 11:18	0.0	0.0	0.0	128	07/25/2012 11:18	0.0	0.0	0.0	0
129	07/25/2012 11:19	0.0	0.0	0.0	129	07/25/2012 11:19	0.0	0.0	0.0	0
130	07/25/2012 11:20	0.0	0.0	0.0	130	07/25/2012 11:20	0.0	0.0	0.0	0
131	07/25/2012 11:21	0.0	0.0	0.0	131	07/25/2012 11:21	0.0	0.0	0.0	0
132	07/25/2012 11:22	0.0	0.0	0.0	132	07/25/2012 11:22	0.0	0.0	0.0	0
133	07/25/2012 11:23	0.0	0.0	0.0	133	07/25/2012 11:23	0.0	0.0	0.0	0
134	07/25/2012 11:24	0.0	0.0	0.0	134	07/25/2012 11:24	0.0	0.0	0.0	0
135	07/25/2012 11:25	0.0	0.0	0.0	135	07/25/2012 11:25	0.0	0.0	0.0	0
136	07/25/2012 11:26	0.0	0.0	0.0	136	07/25/2012 11:26	0.0	0.0	0.0	0
137	07/25/2012 11:27	0.0	0.0	0.0	137	07/25/2012 11:27	0.0	0.0	0.0	0
138	07/25/2012 11:28	0.0	0.0	0.0	138	07/25/2012 11:28	0.0	0.0	0.0	0
139	07/25/2012 11:29	0.0	0.0	0.0	139	07/25/2012 11:29	0.0	0.0	0.0	0
140	07/25/2012 11:30	0.0	0.0	0.0	140	07/25/2012 11:30	0.0	0.0	0.0	0
141	07/25/2012 11:31	0.0	0.0	0.0	141	07/25/2012 11:31	0.0	0.0	0.0	0
142	07/25/2012 11:32	0.0	0.0	0.0	142	07/25/2012 11:32	0.0	0.0	0.0	0
143	07/25/2012 11:33	0.0	0.0	0.0	143	07/25/2012 11:33	0.0	0.0	0.0	0
144	07/25/2012 11:34	0.0	0.0	0.0	144	07/25/2012 11:34	0.0	0.0	0.0	0
145	07/25/2012 11:35	0.0	0.0	0.0	145	07/25/2012 11:35	0.0	0.0	0.0	0
146	07/25/2012 11:36	0.0	0.0	0.0	146	07/25/2012 11:36	0.0	0.0	0.0	0
147	07/25/2012 11:37	0.0	0.0	0.0	147	07/25/2012 11:37	0.0	0.0	0.0	0
148	07/25/2012 11:38	0.0	0.0	0.0	148	07/25/2012 11:38	0.0	0.0	0.0	0
149	07/25/2012 11:39	0.0	0.0	0.0	149	07/25/2012 11:39	0.0	0.0	0.0	0
150	07/25/2012 11:40	0.0	0.0	0.0	150	07/25/2012 11:40	0.0	0.0	0.0	0
151	07/25/2012 11:41	0.0	0.0	0.0	151	07/25/2012 11:41	0.0	0.0	0.0	0
152	07/25/2012 11:42	0.0	0.0	0.0	152	07/25/2012 11:42	0.0	0.0	0.0	0
153	07/25/2012 11:43	0.0	0.0	0.0	153	07/25/2012 11:43	0.0	0.0	0.0	0
154	07/25/2012 11:44	0.0	0.0	0.0	154	07/25/2012 11:44	0.0	0.0	0.0	0
155	07/25/2012 11:45	0.0	0.0	0.0	155	07/25/2012 11:45	0.0	0.0	0.0	0
156	07/25/2012 11:46	0.0	0.0	0.0	156	07/25/2012 11:46	0.0	0.0	0.0	0
157	07/25/2012 11:47	0.0	0.0	0.0	157	07/25/2012 11:47	0.0	0.0	0.0	0
158	07/25/2012 11:48	0.0	0.0	0.0	158	07/25/2012 11:48	0.0	0.0	0.0	0
159	07/25/2012 11:49	0.0	0.0	0.0	159	07/25/2012 11:49	0.0	0.0	0.0	0
160	07/25/2012 11:50	0.0	0.0	0.0	160	07/25/2012 11:50	0.0	0.0	0.0	0
161	07/25/2012 11:51	0.0	0.0	0.0	161	07/25/2012 11:51	0.0	0.0	0.0	0
162	07/25/2012 11:52	0.0	0.0	0.0	162	07/25/2012 11:52	0.0	0.0	0.0	0
163	07/25/2012 11:53	0.0	0.0	0.0	163	07/25/2012 11:53	0.0	0.0	0.0	0
164	07/25/2012 11:54	0.0	0.0	0.0	164	07/25/2012 11:54	0.0	0.0	0.0	0
165	07/25/2012 11:55	0.0	0.0	0.0	165	07/25/2012 11:55	0.0	0.0	0.0	0
166	07/25/2012 11:56	0.0	0.0	0.0	166	07/25/2012 11:56	0.0	0.0	0.0	0
167	07/25/2012 11:57	0.0	0.0	0.0	167	07/25/2012 11:57	0.0	0.0	0.0	0
168	07/25/2012 11:58	0.0	0.0	0.0	168	07/25/2012 11:58	0.0	0.0	0.0	0

169	07/25/2012 11:59	0.0	0.0	0.0	169	07/25/2012 11:59	0.0	0.0	0.0	0	
170	07/25/2012 12:00	0.0	0.0	0.0	170	07/25/2012 12:00	0.0	0.0	0.0	0	
171	07/25/2012 12:01	0.0	0.0	0.0	171	07/25/2012 12:01	0.0	0.0	0.0	0	
172	07/25/2012 12:02	0.0	0.0	0.0	172	07/25/2012 12:02	0.0	0.0	0.0	0	
173	07/25/2012 12:03	0.0	0.0	0.0	173	07/25/2012 12:03	0.0	0.0	0.0	0	
174	07/25/2012 12:04	0.0	0.0	0.0	174	07/25/2012 12:04	0.0	0.0	0.0	0	
175	07/25/2012 12:05	0.0	0.0	0.0	175	07/25/2012 12:05	0.0	0.0	0.0	0	
176	07/25/2012 12:06	0.0	0.0	0.0	176	07/25/2012 12:06	0.0	0.0	0.0	0	
177	07/25/2012 12:07	0.0	0.0	0.0	177	07/25/2012 12:07	0.0	0.0	0.0	0	
178	07/25/2012 12:08	0.0	0.0	0.0	178	07/25/2012 12:08	0.0	0.0	0.0	0	
179	07/25/2012 12:09	0.0	0.0	0.0	179	07/25/2012 12:09	0.0	0.0	0.0	0	
180	07/25/2012 12:10	0.0	0.0	0.0	180	07/25/2012 12:10	0.0	0.0	0.0	0	
181	07/25/2012 12:11	0.0	0.0	0.0	181	07/25/2012 12:11	0.0	0.0	0.0	0	
182	07/25/2012 12:12	0.0	0.0	0.0	182	07/25/2012 12:12	0.0	0.0	0.0	0	
183	07/25/2012 12:13	0.0	0.0	0.0	183	07/25/2012 12:13	0.0	0.0	0.0	0	
184	07/25/2012 12:14	0.0	0.0	0.0	184	07/25/2012 12:14	0.0	0.0	0.0	0	
185	07/25/2012 12:15	0.0	0.0	0.0	185	07/25/2012 12:15	0.0	0.0	0.0	0	
186	07/25/2012 12:16	0.0	0.0	0.0	186	07/25/2012 12:16	0.0	0.0	0.0	0	Begin drilling SB-26
187	07/25/2012 12:17	0.0	0.0	0.0	187	07/25/2012 12:17	0.0	0.0	0.0	0	Drilling SB-26
188	07/25/2012 12:18	0.0	0.0	0.0	188	07/25/2012 12:18	0.0	0.0	0.0	0	Drilling SB-26
189	07/25/2012 12:19	0.0	0.0	0.0	189	07/25/2012 12:19	0.0	0.0	0.0	0	Drilling SB-26
190	07/25/2012 12:20	0.0	0.0	0.0	190	07/25/2012 12:20	0.0	0.0	0.0	0	Drilling SB-26
191	07/25/2012 12:21	0.0	0.0	0.0	191	07/25/2012 12:21	0.0	0.0	0.0	0	Drilling SB-26
192	07/25/2012 12:22	0.0	0.0	0.0	192	07/25/2012 12:22	0.0	0.0	0.0	0	Drilling SB-26
193	07/25/2012 12:23	0.0	0.0	0.0	193	07/25/2012 12:23	0.0	0.0	0.0	0	Drilling SB-26
194	07/25/2012 12:24	0.0	0.0	0.0	194	07/25/2012 12:24	0.0	0.0	0.0	0	Drilling SB-26
195	07/25/2012 12:25	0.0	0.0	0.0	195	07/25/2012 12:25	0.0	0.0	0.0	0	Drilling SB-26
196	07/25/2012 12:26	0.0	0.0	0.0	196	07/25/2012 12:26	0.0	0.0	0.0	0	Drilling SB-26
197	07/25/2012 12:27	0.0	0.0	0.0							Battery died

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000148
Data Points: 452 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/26/2012 07:49

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	07/26/2012 07:51	0.2	0.3	0.4
2	07/26/2012 07:52	0.1	0.1	0.3
3	07/26/2012 07:53	0.1	0.1	0.2
4	07/26/2012 07:54	0.1	0.1	0.2
5	07/26/2012 07:55	0.0	0.0	0.1
6	07/26/2012 07:56	0.0	0.0	0.1
7	07/26/2012 07:57	0.0	0.0	0.1
8	07/26/2012 07:58	0.0	0.0	0.1
9	07/26/2012 07:59	0.0	0.0	0.2
10	07/26/2012 08:00	0.0	0.1	0.2
11	07/26/2012 08:01	0.0	0.0	0.1
12	07/26/2012 08:02	0.0	0.0	0.1
13	07/26/2012 08:03	0.0	0.0	0.1
14	07/26/2012 08:04	0.0	0.0	0.1
15	07/26/2012 08:05	0.0	0.0	0.1
16	07/26/2012 08:06	0.0	0.0	0.1
17	07/26/2012 08:07	0.0	0.0	0.1
18	07/26/2012 08:08	0.0	0.0	0.1
19	07/26/2012 08:09	0.0	0.0	0.1
20	07/26/2012 08:10	0.0	0.0	0.1
21	07/26/2012 08:11	0.0	0.0	0.0
22	07/26/2012 08:12	0.0	0.0	0.2
23	07/26/2012 08:13	0.0	0.0	0.1
24	07/26/2012 08:14	0.0	0.0	0.1
25	07/26/2012 08:15	0.0	0.0	0.1
26	07/26/2012 08:16	0.0	0.0	0.1
27	07/26/2012 08:17	0.0	0.0	0.1
28	07/26/2012 08:18	0.0	0.0	0.1
29	07/26/2012 08:19	0.0	0.0	0.1
30	07/26/2012 08:20	0.0	0.0	0.1
31	07/26/2012 08:21	0.0	0.0	0.1
32	07/26/2012 08:22	0.0	0.0	0.1
33	07/26/2012 08:23	0.0	0.0	0.1
34	07/26/2012 08:24	0.0	0.0	0.1
35	07/26/2012 08:25	0.0	0.0	0.1
36	07/26/2012 08:26	0.0	0.0	0.1
37	07/26/2012 08:27	0.0	0.0	0.1
38	07/26/2012 08:28	0.0	0.0	0.1
39	07/26/2012 08:29	0.0	0.0	0.1
40	07/26/2012 08:30	0.0	0.0	0.1
41	07/26/2012 08:31	0.0	0.0	0.1
42	07/26/2012 08:32	0.0	0.0	0.1
43	07/26/2012 08:33	0.0	0.0	0.1
44	07/26/2012 08:34	0.0	0.0	0.1
45	07/26/2012 08:35	0.0	0.0	0.1
46	07/26/2012 08:36	0.0	0.0	0.1
47	07/26/2012 08:37	0.0	0.0	0.1

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000148
Data Points: 452 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/26/2012 07:49

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	difference	Comments
1	07/26/2012 07:51	0.2	0.3	0.4	0	Mobing for SB-26
2	07/26/2012 07:52	0.1	0.1	0.3	0	Mobing for SB-26
3	07/26/2012 07:53	0.1	0.1	0.2	0	Mobing for SB-26
4	07/26/2012 07:54	0.1	0.1	0.2	0	Mobing for SB-26
5	07/26/2012 07:55	0.0	0.0	0.1	0	Drilling SB-26
6	07/26/2012 07:56	0.0	0.0	0.1	0	Drilling SB-26
7	07/26/2012 07:57	0.0	0.0	0.1	0	Drilling SB-26
8	07/26/2012 07:58	0.0	0.0	0.1	0	Drilling SB-26
9	07/26/2012 07:59	0.0	0.0	0.2	0	Drilling SB-26
10	07/26/2012 08:00	0.0	0.1	0.2	0	Drilling SB-26
11	07/26/2012 08:01	0.0	0.0	0.1	0	Drilling SB-26
12	07/26/2012 08:02	0.0	0.0	0.1	0	Drilling SB-26
13	07/26/2012 08:03	0.0	0.0	0.1	0	Drilling SB-26
14	07/26/2012 08:04	0.0	0.0	0.1	0	Drilling SB-26
15	07/26/2012 08:05	0.0	0.0	0.1	0	Drilling SB-26
16	07/26/2012 08:06	0.0	0.0	0.1	0	Drilling SB-26
17	07/26/2012 08:07	0.0	0.0	0.1	0	Drilling SB-26
18	07/26/2012 08:08	0.0	0.0	0.1	0	Drilling SB-26
19	07/26/2012 08:09	0.0	0.0	0.1	0	Drilling SB-26
20	07/26/2012 08:10	0.0	0.0	0.1	0	Drilling SB-26
21	07/26/2012 08:11	0.0	0.0	0.0	0	Drilling SB-26
22	07/26/2012 08:12	0.0	0.0	0.2	0	Drilling SB-26
23	07/26/2012 08:13	0.0	0.0	0.1	0	Drilling SB-26
24	07/26/2012 08:14	0.0	0.0	0.1	0	Drilling SB-26
25	07/26/2012 08:15	0.0	0.0	0.1	0	Drilling SB-26
26	07/26/2012 08:16	0.0	0.0	0.1	0	Drilling SB-26
27	07/26/2012 08:17	0.0	0.0	0.1	0	Drilling SB-26
28	07/26/2012 08:18	0.0	0.0	0.1	0	Drilling SB-26
29	07/26/2012 08:19	0.0	0.0	0.1	0	Drilling SB-26
30	07/26/2012 08:20	0.0	0.0	0.1	0	Drilling SB-26
31	07/26/2012 08:21	0.0	0.0	0.1	0	Drilling SB-26
32	07/26/2012 08:22	0.0	0.0	0.1	0	Drilling SB-26
33	07/26/2012 08:23	0.0	0.0	0.1	0	Drilling SB-26
34	07/26/2012 08:24	0.0	0.0	0.1	0	Drilling SB-26
35	07/26/2012 08:25	0.0	0.0	0.1	0	Drilling SB-26
36	07/26/2012 08:26	0.0	0.0	0.1	0	Drilling SB-26
37	07/26/2012 08:27	0.0	0.0	0.1	0	Drilling SB-26
38	07/26/2012 08:28	0.0	0.0	0.1	0	Drilling SB-26
39	07/26/2012 08:29	0.0	0.0	0.1	0	Drilling SB-26
40	07/26/2012 08:30	0.0	0.0	0.1	0	Drilling SB-26
41	07/26/2012 08:31	0.0	0.0	0.1	0	Drilling SB-26
42	07/26/2012 08:32	0.0	0.0	0.1	0	Drilling SB-26
43	07/26/2012 08:33	0.0	0.0	0.1	0	Drilling SB-26
44	07/26/2012 08:34	0.0	0.0	0.1	0	Drilling SB-26
45	07/26/2012 08:35	0.0	0.0	0.1	0	Drilling SB-26
46	07/26/2012 08:36	0.0	0.0	0.1	0	Drilling SB-26
47	07/26/2012 08:37	0.0	0.0	0.1	0	Drilling SB-26

48	07/26/2012 08:38	0.0	0.0	0.1	48	07/26/2012 08:38	0.0	0.0	0.1	0	Drilling SB-26
49	07/26/2012 08:39	0.1	0.1	0.2	49	07/26/2012 08:39	0.1	0.1	0.2	0	Drilling SB-26
50	07/26/2012 08:40	0.1	0.1	0.1	50	07/26/2012 08:40	0.1	0.1	0.1	0	Drilling SB-26
51	07/26/2012 08:41	0.1	0.1	0.1	51	07/26/2012 08:41	0.1	0.1	0.1	0	finished drilling SB-26, prepping to install
52	07/26/2012 08:42	0.0	0.0	0.1	52	07/26/2012 08:42	0.0	0.0	0.1	0	wells
53	07/26/2012 08:43	0.0	0.0	0.1	53	07/26/2012 08:43	0.0	0.0	0.1	0	installing wells
54	07/26/2012 08:44	0.0	0.0	0.1	54	07/26/2012 08:44	0.0	0.0	0.1	0	installing wells
55	07/26/2012 08:45	0.0	0.0	0.1	55	07/26/2012 08:45	0.0	0.0	0.1	0	installing wells
56	07/26/2012 08:46	0.0	0.0	0.1	56	07/26/2012 08:46	0.0	0.0	0.1	0	installing wells
57	07/26/2012 08:47	0.0	0.0	0.1	57	07/26/2012 08:47	0.0	0.0	0.1	0	installing wells
58	07/26/2012 08:48	0.0	0.0	0.1	58	07/26/2012 08:48	0.0	0.0	0.1	0	installing wells
59	07/26/2012 08:49	0.0	0.0	0.1	59	07/26/2012 08:49	0.0	0.0	0.1	0	installing wells
60	07/26/2012 08:50	0.0	0.0	0.1	60	07/26/2012 08:50	0.0	0.0	0.1	0	installing wells
61	07/26/2012 08:51	0.0	0.0	0.1	61	07/26/2012 08:51	0.0	0.0	0.1	0	installing wells
62	07/26/2012 08:52	0.0	0.0	0.1	62	07/26/2012 08:52	0.0	0.0	0.1	0	installing wells
63	07/26/2012 08:53	0.0	0.0	0.1	63	07/26/2012 08:53	0.0	0.0	0.1	0	installing wells
64	07/26/2012 08:54	0.1	0.1	0.1	64	07/26/2012 08:54	0.1	0.1	0.1	0	installing wells
65	07/26/2012 08:55	0.1	0.1	0.1	65	07/26/2012 08:55	0.1	0.1	0.1	0	installing wells
66	07/26/2012 08:56	0.1	0.1	0.1	66	07/26/2012 08:56	0.1	0.1	0.1	0	installing wells
67	07/26/2012 08:57	0.1	0.1	0.1	67	07/26/2012 08:57	0.1	0.1	0.1	0	installing wells
68	07/26/2012 08:58	0.1	0.1	0.1	68	07/26/2012 08:58	0.1	0.1	0.1	0	installing wells
69	07/26/2012 08:59	0.1	0.1	0.1	69	07/26/2012 08:59	0.1	0.1	0.1	0	installing wells
70	07/26/2012 09:00	0.1	0.1	0.1	70	07/26/2012 09:00	0.1	0.1	0.1	0	installing wells
71	07/26/2012 09:01	0.1	0.1	0.1	71	07/26/2012 09:01	0.1	0.1	0.1	0	installing wells
72	07/26/2012 09:02	0.1	0.1	0.1	72	07/26/2012 09:02	0.1	0.1	0.1	0	installing wells
73	07/26/2012 09:03	0.1	0.1	0.1	73	07/26/2012 09:03	0.1	0.1	0.1	0	installing wells
74	07/26/2012 09:04	0.1	0.1	0.1	74	07/26/2012 09:04	0.1	0.1	0.1	0	installing wells
75	07/26/2012 09:05	0.1	0.1	0.1	75	07/26/2012 09:05	0.1	0.1	0.1	0	installing wells
76	07/26/2012 09:06	0.1	0.1	0.1	76	07/26/2012 09:06	0.1	0.1	0.1	0	installing wells
77	07/26/2012 09:07	0.1	0.1	0.1	77	07/26/2012 09:07	0.1	0.1	0.1	0	installing wells
78	07/26/2012 09:08	0.1	0.1	0.1	78	07/26/2012 09:08	0.1	0.1	0.1	0	installing wells
79	07/26/2012 09:09	0.1	0.1	0.1	79	07/26/2012 09:09	0.1	0.1	0.1	0	installing wells
80	07/26/2012 09:10	0.1	0.1	0.1	80	07/26/2012 09:10	0.1	0.1	0.1	0	installing wells
81	07/26/2012 09:11	0.1	0.1	0.1	81	07/26/2012 09:11	0.1	0.1	0.1	0	installing wells
82	07/26/2012 09:12	0.1	0.1	0.2	82	07/26/2012 09:12	0.1	0.1	0.2	0	installing wells
83	07/26/2012 09:13	0.1	0.1	0.2	83	07/26/2012 09:13	0.1	0.1	0.2	0	installing wells
84	07/26/2012 09:14	0.1	0.1	0.1	84	07/26/2012 09:14	0.1	0.1	0.1	0	installing wells
85	07/26/2012 09:15	0.1	0.1	0.1	85	07/26/2012 09:15	0.1	0.1	0.1	0	installing wells, heavy overcast
86	07/26/2012 09:16	0.1	0.1	0.1	86	07/26/2012 09:16	0.1	0.1	0.1	0	installing wells, heavy overcast
87	07/26/2012 09:17	0.1	0.1	0.1	87	07/26/2012 09:17	0.1	0.1	0.1	0	installing wells, heavy overcast
88	07/26/2012 09:18	0.1	0.1	0.1	88	07/26/2012 09:18	0.1	0.1	0.1	0	installing wells, heavy overcast
89	07/26/2012 09:19	0.1	0.1	0.1	89	07/26/2012 09:19	0.1	0.1	0.1	0	installing wells, heavy overcast
90	07/26/2012 09:20	0.1	0.1	0.1	90	07/26/2012 09:20	0.1	0.1	0.1	0	installing wells, heavy overcast
91	07/26/2012 09:21	0.1	0.1	0.1	91	07/26/2012 09:21	0.1	0.1	0.1	0	installing wells, heavy overcast
92	07/26/2012 09:22	0.1	0.1	0.1	92	07/26/2012 09:22	0.1	0.1	0.1	0	installing wells, heavy overcast
93	07/26/2012 09:23	0.1	0.1	0.2	93	07/26/2012 09:23	0.1	0.1	0.2	0	installing wells, heavy overcast
94	07/26/2012 09:24	0.1	0.1	0.2	94	07/26/2012 09:24	0.1	0.1	0.2	0	installing wells, heavy overcast
95	07/26/2012 09:25	0.1	0.1	0.2	95	07/26/2012 09:25	0.1	0.1	0.2	0	installing wells, heavy overcast
96	07/26/2012 09:26	0.1	0.1	0.2	96	07/26/2012 09:26	0.1	0.1	0.2	0	installing wells, heavy overcast
97	07/26/2012 09:27	0.1	0.1	0.2	97	07/26/2012 09:27	0.1	0.1	0.2	0	installing wells, heavy overcast
98	07/26/2012 09:28	0.1	0.1	0.1	98	07/26/2012 09:28	0.1	0.1	0.1	0	installing wells, heavy overcast
99	07/26/2012 09:29	0.1	0.1	0.1	99	07/26/2012 09:29	0.1	0.1	0.1	0	installing wells, heavy overcast
100	07/26/2012 09:30	0.1	0.1	0.1	100	07/26/2012 09:30	0.1	0.1	0.1	0	installing wells, heavy overcast
101	07/26/2012 09:31	0.1	0.1	0.2	101	07/26/2012 09:31	0.1	0.1	0.2	0	installing wells, heavy overcast
102	07/26/2012 09:32	0.1	0.1	0.1	102	07/26/2012 09:32	0.1	0.1	0.1	0	installing wells, heavy overcast
103	07/26/2012 09:33	0.1	0.1	0.2	103	07/26/2012 09:33	0.1	0.1	0.2	0	installing wells, heavy overcast
104	07/26/2012 09:34	0.1	0.1	0.1	104	07/26/2012 09:34	0.1	0.1	0.1	0	installing wells, heavy overcast
105	07/26/2012 09:35	0.1	0.1	0.2	105	07/26/2012 09:35	0.1	0.1	0.2	0	installing wells, begins to rain
106	07/26/2012 09:36	0.1	0.1	0.2	106	07/26/2012 09:36	0.1	0.1	0.2	0	installing wells, begins to rain

107	07/26/2012 09:37	0.1	0.1	0.2	107	07/26/2012 09:37	0.1	0.1	0.2	0	installing wells, begins to rain
108	07/26/2012 09:38	0.1	0.1	0.2	108	07/26/2012 09:38	0.1	0.1	0.2	0	installing wells, begins to rain
109	07/26/2012 09:39	0.2	0.2	0.2	109	07/26/2012 09:39	0.2	0.2	0.2	0	installing wells, begins to rain
110	07/26/2012 09:40	0.1	0.2	0.3	110	07/26/2012 09:40	0.1	0.2	0.3	0	installing wells, begins to rain
111	07/26/2012 09:41	0.1	0.2	0.3	111	07/26/2012 09:41	0.1	0.2	0.3	0	installing wells, begins to rain
112	07/26/2012 09:42	0.1	0.2	0.3	112	07/26/2012 09:42	0.1	0.2	0.3	0	installing wells, begins to rain
113	07/26/2012 09:43	0.2	0.2	0.4	113	07/26/2012 09:43	0.2	0.2	0.4	0	installing wells, begins to rain
114	07/26/2012 09:44	0.2	0.2	0.3	114	07/26/2012 09:44	0.2	0.2	0.3	0	installing wells, begins to rain
115	07/26/2012 09:45	0.2	0.2	0.3	115	07/26/2012 09:45	0.2	0.2	0.3	0	installing wells, begins to rain
116	07/26/2012 09:46	0.2	0.2	0.3	116	07/26/2012 09:46	0.2	0.2	0.3	0	installing wells, begins to rain
117	07/26/2012 09:47	0.3	0.3	0.3	117	07/26/2012 09:47	0.3	0.3	0.3	0	installing wells, begins to rain
118	07/26/2012 09:48	0.2	0.2	0.3	118	07/26/2012 09:48	0.2	0.2	0.3	0	installing wells, begins to rain
119	07/26/2012 09:49	0.2	0.2	0.3	119	07/26/2012 09:49	0.2	0.2	0.3	0	installing wells, begins to rain
120	07/26/2012 09:50	0.2	0.2	0.3	120	07/26/2012 09:50	0.2	0.2	0.3	0	installing wells, begins to rain
121	07/26/2012 09:51	0.2	0.2	0.3	121	07/26/2012 09:51	0.2	0.2	0.3	0	installing wells, begins to rain
122	07/26/2012 09:52	0.3	0.3	0.4	122	07/26/2012 09:52	0.3	0.3	0.4	0	installing wells, begins to rain
123	07/26/2012 09:53	0.2	0.3	0.4	123	07/26/2012 09:53	0.2	0.3	0.4	0	installing wells, begins to rain
124	07/26/2012 09:54	0.2	0.2	0.3	124	07/26/2012 09:54	0.2	0.2	0.3	0	installing wells, begins to rain
125	07/26/2012 09:55	0.2	0.2	0.3	125	07/26/2012 09:55	0.2	0.2	0.3	0	installing wells, begins to rain
126	07/26/2012 09:56	0.2	0.2	0.3	126	07/26/2012 09:56	0.2	0.2	0.3	0	installing wells, begins to rain
127	07/26/2012 09:57	0.2	0.2	0.3	127	07/26/2012 09:57	0.2	0.2	0.3	0	installing wells, begins to rain
128	07/26/2012 09:58	0.2	0.2	0.3	128	07/26/2012 09:58	0.2	0.2	0.3	0	installing wells, begins to rain
129	07/26/2012 09:59	0.2	0.2	0.3	129	07/26/2012 09:59	0.2	0.2	0.3	0	installing wells, begins to rain
130	07/26/2012 10:00	0.3	0.3	0.4	130	07/26/2012 10:00	0.3	0.3	0.4	0	installing wells, thunderstorming
131	07/26/2012 10:01	0.3	0.3	0.4	131	07/26/2012 10:01	0.3	0.3	0.4	0	stopped working while storming
132	07/26/2012 10:02	0.3	0.3	0.3	132	07/26/2012 10:02	0.3	0.3	0.3	0	stopped working while storming
133	07/26/2012 10:03	0.3	0.3	0.4	133	07/26/2012 10:03	0.3	0.3	0.4	0	stopped working while storming
134	07/26/2012 10:04	0.3	0.3	0.4	134	07/26/2012 10:04	0.3	0.3	0.4	0	stopped working while storming
135	07/26/2012 10:05	0.3	0.3	0.4	135	07/26/2012 10:05	0.3	0.3	0.4	0	stopped working while storming
136	07/26/2012 10:06	0.3	0.3	0.4	136	07/26/2012 10:06	0.3	0.3	0.4	0	stopped working while storming
137	07/26/2012 10:07	0.3	0.3	0.4	137	07/26/2012 10:07	0.3	0.3	0.4	0	stopped working while storming
138	07/26/2012 10:08	0.3	0.3	0.4	138	07/26/2012 10:08	0.3	0.3	0.4	0	stopped working while storming
139	07/26/2012 10:09	0.4	0.4	0.5	139	07/26/2012 10:09	0.4	0.4	0.5	0	stopped working while storming
140	07/26/2012 10:10	0.4	0.4	0.5	140	07/26/2012 10:10	0.4	0.4	0.5	0	stopped working while storming
141	07/26/2012 10:11	0.5	0.5	0.5	141	07/26/2012 10:11	0.5	0.5	0.5	0	stopped working while storming
142	07/26/2012 10:12	0.5	0.5	0.6	142	07/26/2012 10:12	0.5	0.5	0.6	0	stopped working while storming
143	07/26/2012 10:13	0.5	0.5	0.6	143	07/26/2012 10:13	0.5	0.5	0.6	0	stopped working while storming
144	07/26/2012 10:14	0.6	0.6	0.7	144	07/26/2012 10:14	0.6	0.6	0.7	0	stopped working while storming
145	07/26/2012 10:15	0.7	0.7	0.8	145	07/26/2012 10:15	0.7	0.7	0.8	0	stopped working while storming
146	07/26/2012 10:16	0.7	0.7	0.8	146	07/26/2012 10:16	0.7	0.7	0.8	0	stopped working while storming
147	07/26/2012 10:17	0.8	0.8	0.8	147	07/26/2012 10:17	0.8	0.8	0.8	0	stopped working while storming
148	07/26/2012 10:18	0.8	0.8	0.8	148	07/26/2012 10:18	0.8	0.8	0.8	0	stopped working while storming
149	07/26/2012 10:19	0.8	0.8	0.9	149	07/26/2012 10:19	0.8	0.8	0.9	0	stopped working while storming
150	07/26/2012 10:20	0.9	0.9	1.0	150	07/26/2012 10:20	0.9	0.9	1.0	0	stopped working while storming
151	07/26/2012 10:21	0.9	0.9	1.0	151	07/26/2012 10:21	0.9	0.9	1.0	0	stopped working while storming
152	07/26/2012 10:22	1.0	1.0	1.1	152	07/26/2012 10:22	1.0	1.0	1.1	0	stopped working while storming
153	07/26/2012 10:23	1.1	1.1	1.1	153	07/26/2012 10:23	1.1	1.1	1.1	0	stopped working while storming
154	07/26/2012 10:24	1.1	1.1	1.2	154	07/26/2012 10:24	1.1	1.1	1.2	0	stopped working while storming
155	07/26/2012 10:25	1.2	1.2	1.2	155	07/26/2012 10:25	1.2	1.2	1.2	0	stopped working while storming
156	07/26/2012 10:26	1.2	1.2	1.3	156	07/26/2012 10:26	1.2	1.2	1.3	0	stopped working while storming
157	07/26/2012 10:27	1.2	1.2	1.3	157	07/26/2012 10:27	1.2	1.2	1.3	0	stopped working while storming
158	07/26/2012 10:28	1.3	1.3	1.4	158	07/26/2012 10:28	1.3	1.3	1.4	0	stopped working while storming
159	07/26/2012 10:29	1.3	1.3	1.3	159	07/26/2012 10:29	1.3	1.3	1.3	0	stopped working while storming
160	07/26/2012 10:30	1.3	1.3	1.3	160	07/26/2012 10:30	1.3	1.3	1.3	0	stopped working while storming
161	07/26/2012 10:31	1.3	1.3	1.4	161	07/26/2012 10:31	1.3	1.3	1.4	0	stopped working while storming
162	07/26/2012 10:32	1.3	1.3	1.4	162	07/26/2012 10:32	1.3	1.3	1.4	0	stopped working while storming
163	07/26/2012 10:33	1.3	1.3	1.4	163	07/26/2012 10:33	1.3	1.3	1.4	0	stopped working while storming
164	07/26/2012 10:34	1.3	1.3	1.4	164	07/26/2012 10:34	1.3	1.3	1.4	0	stopped working while storming
165	07/26/2012 10:35	1.3	1.3	1.4	165	07/26/2012 10:35	1.3	1.3	1.4	0	stopped working while storming

166	07/26/2012 10:36	1.3	1.3	1.4	166	07/26/2012 10:36	1.3	1.3	1.4	0	stopped working while storming
167	07/26/2012 10:37	1.3	1.3	1.4	167	07/26/2012 10:37	1.3	1.3	1.4	0	stopped working while storming
168	07/26/2012 10:38	1.4	1.4	1.4	168	07/26/2012 10:38	1.4	1.4	1.4	0	stopped working while storming
169	07/26/2012 10:39	1.4	1.4	1.5	169	07/26/2012 10:39	1.4	1.4	1.5	0	stopped working while storming
170	07/26/2012 10:40	1.5	1.5	1.6	170	07/26/2012 10:40	1.5	1.5	1.6	0	stopped working while storming
171	07/26/2012 10:41	1.5	1.5	1.6	171	07/26/2012 10:41	1.5	1.5	1.6	0	stopped working while storming
172	07/26/2012 10:42	1.6	1.6	1.7	172	07/26/2012 10:42	1.6	1.6	1.7	0	stopped working while storming
173	07/26/2012 10:43	1.7	1.7	1.8	173	07/26/2012 10:43	1.7	1.7	1.8	0	stopped working while storming
174	07/26/2012 10:44	1.8	1.8	1.8	174	07/26/2012 10:44	1.8	1.8	1.8	0	stopped working while storming
175	07/26/2012 10:45	1.8	1.8	2.0	175	07/26/2012 10:45	1.8	1.8	2.0	0	stopped working while storming
176	07/26/2012 10:46	1.8	1.9	2.0	176	07/26/2012 10:46	1.8	1.9	2.0	0	stopped working while storming
177	07/26/2012 10:47	1.9	1.9	2.0	177	07/26/2012 10:47	1.9	1.9	2.0	0	stopped working while storming
178	07/26/2012 10:48	2.0	2.0	2.2	178	07/26/2012 10:48	2.0	2.0	2.2	0	stopped working while storming
179	07/26/2012 10:49	2.1	2.2	2.4	179	07/26/2012 10:49	2.1	2.2	2.4	0	stopped working while storming
180	07/26/2012 10:50	2.3	2.3	2.5	180	07/26/2012 10:50	2.3	2.3	2.5	0	stopped working while storming
181	07/26/2012 10:51	2.4	2.4	2.5	181	07/26/2012 10:51	2.4	2.4	2.5	0	stopped storming, installing wells
182	07/26/2012 10:52	2.5	2.5	2.5	182	07/26/2012 10:52	2.5	2.5	2.5	0	installing wells
183	07/26/2012 10:53	2.4	2.4	2.5	183	07/26/2012 10:53	2.4	2.4	2.5	0	installing wells
184	07/26/2012 10:54	2.4	2.4	2.5	184	07/26/2012 10:54	2.4	2.4	2.5	0	installing wells
185	07/26/2012 10:55	2.4	2.4	2.5	185	07/26/2012 10:55	2.4	2.4	2.5	0	installing wells
186	07/26/2012 10:56	2.4	2.4	2.6	186	07/26/2012 10:56	2.4	2.4	2.6	0	installing wells
187	07/26/2012 10:57	2.4	2.4	2.6	187	07/26/2012 10:57	2.4	2.4	2.6	0	installing wells
188	07/26/2012 10:58	2.5	2.6	2.7	188	07/26/2012 10:58	2.5	2.6	2.7	0	installing wells
189	07/26/2012 10:59	2.7	2.8	2.9	189	07/26/2012 10:59	2.7	2.8	2.9	0	installing wells
190	07/26/2012 11:00	2.9	2.9	3.1	190	07/26/2012 11:00	2.9	2.9	3.1	0	installing wells
191	07/26/2012 11:01	3.0	3.0	3.1	191	07/26/2012 11:01	3.0	3.0	3.1	0	installing wells
192	07/26/2012 11:02	3.0	3.0	3.1	192	07/26/2012 11:02	3.0	3.0	3.1	0	installing wells
193	07/26/2012 11:03	2.9	2.9	3.0	193	07/26/2012 11:03	2.9	2.9	3.0	0	installing wells
194	07/26/2012 11:04	2.8	2.9	3.0	194	07/26/2012 11:04	2.8	2.9	3.0	0	installing wells
195	07/26/2012 11:05	2.8	2.8	2.9	195	07/26/2012 11:05	2.8	2.8	2.9	0	installing wells
196	07/26/2012 11:06	2.9	2.9	3.0	196	07/26/2012 11:06	2.9	2.9	3.0	0	installing wells
197	07/26/2012 11:07	2.9	2.9	3.0	197	07/26/2012 11:07	2.9	2.9	3.0	0	installing wells
198	07/26/2012 11:08	3.0	3.0	3.1	198	07/26/2012 11:08	3.0	3.0	3.1	0	installing wells
199	07/26/2012 11:09	3.0	3.0	3.1	199	07/26/2012 11:09	3.0	3.0	3.1	0	installing wells
200	07/26/2012 11:10	3.0	3.0	3.1	200	07/26/2012 11:10	3.0	3.0	3.1	0	installing wells
201	07/26/2012 11:11	3.0	3.0	3.1	201	07/26/2012 11:11	3.0	3.0	3.1	0	installing wells
202	07/26/2012 11:12	3.0	3.0	3.1	202	07/26/2012 11:12	3.0	3.0	3.1	0	installing wells
203	07/26/2012 11:13	3.0	3.0	3.1	203	07/26/2012 11:13	3.0	3.0	3.1	0	installing wells
204	07/26/2012 11:14	3.0	3.2	3.3	204	07/26/2012 11:14	3.0	3.2	3.3	0	installing wells
205	07/26/2012 11:15	3.2	3.2	3.4	205	07/26/2012 11:15	3.2	3.2	3.4	0	installing wells
206	07/26/2012 11:16	3.0	3.1	3.2	206	07/26/2012 11:16	3.0	3.1	3.2	0	installing wells
207	07/26/2012 11:17	2.8	2.9	3.1	207	07/26/2012 11:17	2.8	2.9	3.1	0	installing wells
208	07/26/2012 11:18	2.7	2.8	2.9	208	07/26/2012 11:18	2.7	2.8	2.9	0	installing wells
209	07/26/2012 11:19	2.7	2.7	2.8	209	07/26/2012 11:19	2.7	2.7	2.8	0	installing wells
210	07/26/2012 11:20	2.8	2.8	2.9	210	07/26/2012 11:20	2.8	2.8	2.9	0	installing wells
211	07/26/2012 11:21	2.8	2.8	3.0	211	07/26/2012 11:21	2.8	2.8	3.0	0	installing wells
212	07/26/2012 11:22	2.7	2.7	2.8	212	07/26/2012 11:22	2.7	2.7	2.8	0	installing wells
213	07/26/2012 11:23	2.6	2.6	2.8	213	07/26/2012 11:23	2.6	2.6	2.8	0	installing wells
214	07/26/2012 11:24	2.6	2.7	3.0	214	07/26/2012 11:24	2.6	2.7	3.0	0	installing wells
215	07/26/2012 11:25	3.0	3.1	3.3	215	07/26/2012 11:25	3.0	3.1	3.3	0	installing wells
216	07/26/2012 11:26	2.9	3.0	3.3	216	07/26/2012 11:26	2.9	3.0	3.3	0	installing wells
217	07/26/2012 11:27	2.2	2.5	2.9	217	07/26/2012 11:27	2.2	2.5	2.9	0	installing wells
218	07/26/2012 11:28	1.7	2.0	2.3	218	07/26/2012 11:28	1.7	2.0	2.3	0	installing wells
219	07/26/2012 11:29	1.4	1.5	1.7	219	07/26/2012 11:29	1.4	1.5	1.7	0	installing wells
220	07/26/2012 11:30	1.3	1.3	1.4	220	07/26/2012 11:30	1.3	1.3	1.4	0	installing wells
221	07/26/2012 11:31	1.2	1.3	1.4	221	07/26/2012 11:31	1.2	1.3	1.4	0	installing wells
222	07/26/2012 11:32	1.1	1.1	1.3	222	07/26/2012 11:32	1.1	1.1	1.3	0	installing wells
223	07/26/2012 11:33	1.0	1.0	1.1	223	07/26/2012 11:33	1.0	1.0	1.1	0	installing wells
224	07/26/2012 11:34	0.9	0.9	1.1	224	07/26/2012 11:34	0.9	0.9	1.1	0	installing wells

225	07/26/2012 11:35	0.9	0.9	1.0	225	07/26/2012 11:35	0.9	0.9	1.0	0	installing wells
226	07/26/2012 11:36	0.7	0.8	0.9	226	07/26/2012 11:36	0.7	0.8	0.9	0	installing wells
227	07/26/2012 11:37	0.6	0.6	0.8	227	07/26/2012 11:37	0.6	0.6	0.8	0	installing wells
228	07/26/2012 11:38	0.5	0.5	0.7	228	07/26/2012 11:38	0.5	0.5	0.7	0	installing wells
229	07/26/2012 11:39	0.5	0.5	0.6	229	07/26/2012 11:39	0.5	0.5	0.6	0	installing wells
230	07/26/2012 11:40	0.4	0.4	0.5	230	07/26/2012 11:40	0.4	0.4	0.5	0	installing wells
231	07/26/2012 11:41	0.4	0.4	0.5	231	07/26/2012 11:41	0.4	0.4	0.5	0	installing wells
232	07/26/2012 11:42	0.3	0.3	0.4	232	07/26/2012 11:42	0.3	0.3	0.4	0	installing wells
233	07/26/2012 11:43	0.3	0.3	0.4	233	07/26/2012 11:43	0.3	0.3	0.4	0	installing wells
234	07/26/2012 11:44	0.3	0.3	0.4	234	07/26/2012 11:44	0.3	0.3	0.4	0	installing wells
235	07/26/2012 11:45	0.3	0.3	0.3	235	07/26/2012 11:45	0.3	0.3	0.3	0	installing wells
236	07/26/2012 11:46	0.3	0.3	0.3	236	07/26/2012 11:46	0.3	0.3	0.3	0	installing wells
237	07/26/2012 11:47	0.3	0.3	0.3	237	07/26/2012 11:47	0.3	0.3	0.3	0	installing wells
238	07/26/2012 11:48	0.2	0.2	0.3	238	07/26/2012 11:48	0.2	0.2	0.3	0	installing wells
239	07/26/2012 11:49	0.2	0.2	0.3	239	07/26/2012 11:49	0.2	0.2	0.3	0	installing wells
240	07/26/2012 11:50	0.2	0.2	0.2	240	07/26/2012 11:50	0.2	0.2	0.2	0	installing wells
241	07/26/2012 11:51	0.2	0.2	0.2	241	07/26/2012 11:51	0.2	0.2	0.2	0	installing wells
242	07/26/2012 11:52	0.1	0.1	0.2	242	07/26/2012 11:52	0.1	0.1	0.2	0	installing wells
243	07/26/2012 11:53	0.1	0.1	0.2	243	07/26/2012 11:53	0.1	0.1	0.2	0	installing wells
244	07/26/2012 11:54	0.1	0.1	0.2	244	07/26/2012 11:54	0.1	0.1	0.2	0	installing wells
245	07/26/2012 11:55	0.1	0.1	0.2	245	07/26/2012 11:55	0.1	0.1	0.2	0	installing wells
246	07/26/2012 11:56	0.2	0.2	0.2	246	07/26/2012 11:56	0.2	0.2	0.2	0	installing wells
247	07/26/2012 11:57	0.1	0.1	0.2	247	07/26/2012 11:57	0.1	0.1	0.2	0	installing wells
248	07/26/2012 11:58	0.1	0.1	0.2	248	07/26/2012 11:58	0.1	0.1	0.2	0	installing wells
249	07/26/2012 11:59	0.1	0.1	0.2	249	07/26/2012 11:59	0.1	0.1	0.2	0	installing wells
250	07/26/2012 12:00	0.1	0.1	0.2	250	07/26/2012 12:00	0.1	0.1	0.2	0	installing wells
251	07/26/2012 12:01	0.1	0.1	0.2	251	07/26/2012 12:01	0.1	0.1	0.2	0	installing wells
252	07/26/2012 12:02	0.1	0.1	0.2	252	07/26/2012 12:02	0.1	0.1	0.2	0	installing wells
253	07/26/2012 12:03	0.1	0.1	0.2	253	07/26/2012 12:03	0.1	0.1	0.2	0	installing wells
254	07/26/2012 12:04	0.1	0.1	0.2	254	07/26/2012 12:04	0.1	0.1	0.2	0	installing wells
255	07/26/2012 12:05	0.1	0.1	0.2	255	07/26/2012 12:05	0.1	0.1	0.2	0	installing wells
256	07/26/2012 12:06	0.1	0.1	0.2	256	07/26/2012 12:06	0.1	0.1	0.2	0	installing wells
257	07/26/2012 12:07	0.1	0.1	0.2	257	07/26/2012 12:07	0.1	0.1	0.2	0	installing wells
258	07/26/2012 12:08	0.1	0.1	0.2	258	07/26/2012 12:08	0.1	0.1	0.2	0	installing wells
259	07/26/2012 12:09	0.1	0.1	0.2	259	07/26/2012 12:09	0.1	0.1	0.2	0	installing wells
260	07/26/2012 12:10	0.1	0.1	0.2	260	07/26/2012 12:10	0.1	0.1	0.2	0	installing wells
261	07/26/2012 12:11	0.1	0.1	0.2	261	07/26/2012 12:11	0.1	0.1	0.2	0	installing wells
262	07/26/2012 12:12	0.1	0.1	0.2	262	07/26/2012 12:12	0.1	0.1	0.2	0	installing wells
263	07/26/2012 12:13	0.1	0.1	0.2	263	07/26/2012 12:13	0.1	0.1	0.2	0	installing wells
264	07/26/2012 12:14	0.1	0.1	0.2	264	07/26/2012 12:14	0.1	0.1	0.2	0	installing wells
265	07/26/2012 12:15	0.1	0.1	0.2	265	07/26/2012 12:15	0.1	0.1	0.2	0	installing wells
266	07/26/2012 12:16	0.1	0.1	0.2	266	07/26/2012 12:16	0.1	0.1	0.2	0	installing wells
267	07/26/2012 12:17	0.1	0.1	0.2	267	07/26/2012 12:17	0.1	0.1	0.2	0	installing wells
268	07/26/2012 12:18	0.1	0.1	0.2	268	07/26/2012 12:18	0.1	0.1	0.2	0	installing wells
269	07/26/2012 12:19	0.1	0.1	0.2	269	07/26/2012 12:19	0.1	0.1	0.2	0	installing wells
270	07/26/2012 12:20	0.1	0.1	0.2	270	07/26/2012 12:20	0.1	0.1	0.2	0	installing wells
271	07/26/2012 12:21	0.1	0.1	0.2	271	07/26/2012 12:21	0.1	0.1	0.2	0	installing wells
272	07/26/2012 12:22	0.1	0.1	0.2	272	07/26/2012 12:22	0.1	0.1	0.2	0	installing wells
273	07/26/2012 12:23	0.1	0.1	0.2	273	07/26/2012 12:23	0.1	0.1	0.2	0	installing wells
274	07/26/2012 12:24	0.1	0.1	0.2	274	07/26/2012 12:24	0.1	0.1	0.2	0	installing wells
275	07/26/2012 12:25	0.1	0.1	0.2	275	07/26/2012 12:25	0.1	0.1	0.2	0	installing wells
276	07/26/2012 12:26	0.1	0.1	0.2	276	07/26/2012 12:26	0.1	0.1	0.2	0	installing wells
277	07/26/2012 12:27	0.2	0.2	0.2	277	07/26/2012 12:27	0.2	0.2	0.2	0	installing wells
278	07/26/2012 12:28	0.1	0.1	0.2	278	07/26/2012 12:28	0.1	0.1	0.2	0	installing wells
279	07/26/2012 12:29	0.2	0.2	0.2	279	07/26/2012 12:29	0.2	0.2	0.2	0	installing wells
280	07/26/2012 12:30	0.2	0.2	0.2	280	07/26/2012 12:30	0.2	0.2	0.2	0	installing wells
281	07/26/2012 12:31	0.2	0.2	0.2	281	07/26/2012 12:31	0.2	0.2	0.2	0	installing wells
282	07/26/2012 12:32	0.1	0.1	0.2	282	07/26/2012 12:32	0.1	0.1	0.2	0	installing wells
283	07/26/2012 12:33	0.1	0.1	0.2	283	07/26/2012 12:33	0.1	0.1	0.2	0	installing wells

284	07/26/2012 12:34	0.1	0.1	0.2	284	07/26/2012 12:34	0.1	0.1	0.2	0	installing wells
285	07/26/2012 12:35	0.1	0.1	0.2	285	07/26/2012 12:35	0.1	0.1	0.2	0	installing wells
286	07/26/2012 12:36	0.1	0.1	0.2	286	07/26/2012 12:36	0.1	0.1	0.2	0	installing wells
287	07/26/2012 12:37	0.1	0.1	0.2	287	07/26/2012 12:37	0.1	0.1	0.2	0	installing wells
288	07/26/2012 12:38	0.2	0.2	0.2	288	07/26/2012 12:38	0.2	0.2	0.2	0	installing wells
289	07/26/2012 12:39	0.2	0.2	0.2	289	07/26/2012 12:39	0.2	0.2	0.2	0	installing wells
290	07/26/2012 12:40	0.2	0.2	0.2	290	07/26/2012 12:40	0.2	0.2	0.2	0	installing wells
291	07/26/2012 12:41	0.2	0.2	0.2	291	07/26/2012 12:41	0.2	0.2	0.2	0	installing wells
292	07/26/2012 12:42	0.2	0.2	0.2	292	07/26/2012 12:42	0.2	0.2	0.2	0	installing wells
293	07/26/2012 12:43	0.2	0.2	0.3	293	07/26/2012 12:43	0.2	0.2	0.3	0	installing wells
294	07/26/2012 12:44	0.2	0.2	0.3	294	07/26/2012 12:44	0.2	0.2	0.3	0	installing wells
295	07/26/2012 12:45	0.2	0.2	0.2	295	07/26/2012 12:45	0.2	0.2	0.2	0	installing wells
296	07/26/2012 12:46	0.1	0.2	0.3	296	07/26/2012 12:46	0.1	0.2	0.3	0	installing wells
297	07/26/2012 12:47	0.2	0.2	0.2	297	07/26/2012 12:47	0.2	0.2	0.2	0	installing wells
298	07/26/2012 12:48	0.2	0.2	0.2	298	07/26/2012 12:48	0.2	0.2	0.2	0	installing wells
299	07/26/2012 12:49	0.2	0.2	0.2	299	07/26/2012 12:49	0.2	0.2	0.2	0	installing wells
300	07/26/2012 12:50	0.2	0.2	0.2	300	07/26/2012 12:50	0.2	0.2	0.2	0	installing wells
301	07/26/2012 12:51	0.2	0.2	0.2	301	07/26/2012 12:51	0.2	0.2	0.2	0	installing wells
302	07/26/2012 12:52	0.2	0.2	0.2	302	07/26/2012 12:52	0.2	0.2	0.2	0	installing wells
303	07/26/2012 12:53	0.2	0.2	0.2	303	07/26/2012 12:53	0.2	0.2	0.2	0	installing wells
304	07/26/2012 12:54	0.2	0.2	0.2	304	07/26/2012 12:54	0.2	0.2	0.2	0	installing wells
305	07/26/2012 12:55	0.2	0.2	0.2	305	07/26/2012 12:55	0.2	0.2	0.2	0	installing wells
306	07/26/2012 12:56	0.2	0.2	0.2	306	07/26/2012 12:56	0.2	0.2	0.2	0	installing wells
307	07/26/2012 12:57	0.2	0.2	0.3	307	07/26/2012 12:57	0.2	0.2	0.3	0	installing wells
308	07/26/2012 12:58	0.2	0.2	0.2	308	07/26/2012 12:58	0.2	0.2	0.2	0	installing wells
309	07/26/2012 12:59	0.2	0.2	0.3	309	07/26/2012 12:59	0.2	0.2	0.3	0	installing wells
310	07/26/2012 13:00	0.2	0.2	0.3	310	07/26/2012 13:00	0.2	0.2	0.3	0	installing wells
311	07/26/2012 13:01	0.2	0.2	0.3	311	07/26/2012 13:01	0.2	0.2	0.3	0	installing wells
312	07/26/2012 13:02	0.2	0.2	0.3	312	07/26/2012 13:02	0.2	0.2	0.3	0	installing wells
313	07/26/2012 13:03	0.2	0.2	0.3	313	07/26/2012 13:03	0.2	0.2	0.3	0	installing wells
314	07/26/2012 13:04	0.2	0.2	0.2	314	07/26/2012 13:04	0.2	0.2	0.2	0	installing wells
315	07/26/2012 13:05	0.2	0.2	0.3	315	07/26/2012 13:05	0.2	0.2	0.3	0	installing wells
316	07/26/2012 13:06	0.2	0.2	0.3	316	07/26/2012 13:06	0.2	0.2	0.3	0	installing wells
317	07/26/2012 13:07	0.2	0.2	0.3	317	07/26/2012 13:07	0.2	0.2	0.3	0	installing wells
318	07/26/2012 13:08	0.2	0.2	0.3	318	07/26/2012 13:08	0.2	0.2	0.3	0	installing wells
319	07/26/2012 13:09	0.2	0.2	0.3	319	07/26/2012 13:09	0.2	0.2	0.3	0	installing wells
320	07/26/2012 13:10	0.2	0.2	0.3	320	07/26/2012 13:10	0.2	0.2	0.3	0	drillers break for lunch
321	07/26/2012 13:11	0.2	0.2	0.3	321	07/26/2012 13:11	0.2	0.2	0.3	0	drillers break for lunch
322	07/26/2012 13:12	0.2	0.2	0.3	322	07/26/2012 13:12	0.2	0.2	0.3	0	drillers break for lunch
323	07/26/2012 13:13	0.2	0.2	0.3	323	07/26/2012 13:13	0.2	0.2	0.3	0	drillers break for lunch
324	07/26/2012 13:14	0.2	0.2	0.3	324	07/26/2012 13:14	0.2	0.2	0.3	0	drillers break for lunch
325	07/26/2012 13:15	0.2	0.2	0.3	325	07/26/2012 13:15	0.2	0.2	0.3	0	drillers break for lunch
326	07/26/2012 13:16	0.2	0.2	0.3	326	07/26/2012 13:16	0.2	0.2	0.3	0	drillers break for lunch
327	07/26/2012 13:17	0.2	0.2	0.3	327	07/26/2012 13:17	0.2	0.2	0.3	0	drillers break for lunch
328	07/26/2012 13:18	0.2	0.2	0.3	328	07/26/2012 13:18	0.2	0.2	0.3	0	drillers break for lunch
329	07/26/2012 13:19	0.2	0.2	0.3	329	07/26/2012 13:19	0.2	0.2	0.3	0	drillers break for lunch
330	07/26/2012 13:20	0.2	0.2	0.3	330	07/26/2012 13:20	0.2	0.2	0.3	0	drillers break for lunch
331	07/26/2012 13:21	0.2	0.2	0.3	331	07/26/2012 13:21	0.2	0.2	0.3	0	drillers break for lunch
332	07/26/2012 13:22	0.2	0.2	0.3	332	07/26/2012 13:22	0.2	0.2	0.3	0	drillers break for lunch
333	07/26/2012 13:23	0.2	0.2	0.3	333	07/26/2012 13:23	0.2	0.2	0.3	0	drillers break for lunch
334	07/26/2012 13:24	0.2	0.2	0.3	334	07/26/2012 13:24	0.2	0.2	0.3	0	drillers break for lunch
335	07/26/2012 13:25	0.2	0.2	0.3	335	07/26/2012 13:25	0.2	0.2	0.3	0	drillers break for lunch
336	07/26/2012 13:26	0.2	0.2	0.3	336	07/26/2012 13:26	0.2	0.2	0.3	0	drillers break for lunch
337	07/26/2012 13:27	0.2	0.2	0.3	337	07/26/2012 13:27	0.2	0.2	0.3	0	drillers break for lunch
338	07/26/2012 13:28	0.2	0.2	0.3	338	07/26/2012 13:28	0.2	0.2	0.3	0	drillers break for lunch
339	07/26/2012 13:29	0.2	0.2	0.3	339	07/26/2012 13:29	0.2	0.2	0.3	0	drillers break for lunch
340	07/26/2012 13:30	0.2	0.2	0.3	340	07/26/2012 13:30	0.2	0.2	0.3	0	drillers break for lunch
341	07/26/2012 13:31	0.3	0.3	0.3	341	07/26/2012 13:31	0.3	0.3	0.3	0	drillers break for lunch
342	07/26/2012 13:32	0.2	0.2	0.3	342	07/26/2012 13:32	0.2	0.2	0.3	0	drillers break for lunch

343	07/26/2012 13:33	0.2	0.2	0.3	343	07/26/2012 13:33	0.2	0.2	0.3	0 drillers break for lunch
344	07/26/2012 13:34	0.2	0.2	0.3	344	07/26/2012 13:34	0.2	0.2	0.3	0 drillers break for lunch
345	07/26/2012 13:35	0.2	0.2	0.3	345	07/26/2012 13:35	0.2	0.2	0.3	0 drillers break for lunch
346	07/26/2012 13:36	0.3	0.3	0.3	346	07/26/2012 13:36	0.3	0.3	0.3	0 drillers break for lunch
347	07/26/2012 13:37	0.3	0.3	0.3	347	07/26/2012 13:37	0.3	0.3	0.3	0 drillers break for lunch
348	07/26/2012 13:38	0.3	0.3	0.3	348	07/26/2012 13:38	0.3	0.3	0.3	0 drillers break for lunch
349	07/26/2012 13:39	0.3	0.3	0.4	349	07/26/2012 13:39	0.3	0.3	0.4	0 drillers break for lunch
350	07/26/2012 13:40	0.3	0.3	0.3	350	07/26/2012 13:40	0.3	0.3	0.3	0 drillers break for lunch
351	07/26/2012 13:41	0.3	0.3	0.3	351	07/26/2012 13:41	0.3	0.3	0.3	0 pulling casings
352	07/26/2012 13:42	0.3	0.3	0.4	352	07/26/2012 13:42	0.3	0.3	0.4	0 pulling casings
353	07/26/2012 13:43	0.3	0.3	0.4	353	07/26/2012 13:43	0.3	0.3	0.4	0 pulling casings
354	07/26/2012 13:44	0.3	0.3	0.4	354	07/26/2012 13:44	0.3	0.3	0.4	0 pulling casings
355	07/26/2012 13:45	0.2	0.2	0.3	355	07/26/2012 13:45	0.2	0.2	0.3	0 pulling casings
356	07/26/2012 13:46	0.3	0.3	0.4	356	07/26/2012 13:46	0.3	0.3	0.4	0 pulling casings
357	07/26/2012 13:47	0.3	0.3	0.4	357	07/26/2012 13:47	0.3	0.3	0.4	0 pulling casings
358	07/26/2012 13:48	0.3	0.3	0.4	358	07/26/2012 13:48	0.3	0.3	0.4	0 pulling casings
359	07/26/2012 13:49	0.3	0.3	0.4	359	07/26/2012 13:49	0.3	0.3	0.4	0 pulling casings
360	07/26/2012 13:50	0.3	0.3	0.4	360	07/26/2012 13:50	0.3	0.3	0.4	0 pulling casings
361	07/26/2012 13:51	0.3	0.3	0.4	361	07/26/2012 13:51	0.3	0.3	0.4	0 pulling casings
362	07/26/2012 13:52	0.3	0.3	0.4	362	07/26/2012 13:52	0.3	0.3	0.4	0 pulling casings
363	07/26/2012 13:53	0.3	0.3	0.4	363	07/26/2012 13:53	0.3	0.3	0.4	0 pulling casings
364	07/26/2012 13:54	0.3	0.3	0.4	364	07/26/2012 13:54	0.3	0.3	0.4	0 pulling casings
365	07/26/2012 13:55	0.3	0.3	0.4	365	07/26/2012 13:55	0.3	0.3	0.4	0 pulling casings
366	07/26/2012 13:56	0.3	0.3	0.4	366	07/26/2012 13:56	0.3	0.3	0.4	0 pulling casings
367	07/26/2012 13:57	0.3	0.3	0.4	367	07/26/2012 13:57	0.3	0.3	0.4	0 pulling casings
368	07/26/2012 13:58	0.3	0.3	0.4	368	07/26/2012 13:58	0.3	0.3	0.4	0 pulling casings
369	07/26/2012 13:59	0.4	0.4	0.4	369	07/26/2012 13:59	0.4	0.4	0.4	0 pulling casings
370	07/26/2012 14:00	0.3	0.3	0.4	370	07/26/2012 14:00	0.3	0.3	0.4	0 pulling casings
371	07/26/2012 14:01	0.3	0.3	0.4	371	07/26/2012 14:01	0.3	0.3	0.4	0 pulling casings
372	07/26/2012 14:02	0.4	0.4	0.4	372	07/26/2012 14:02	0.4	0.4	0.4	0 pulling casings
373	07/26/2012 14:03	0.3	0.3	0.4	373	07/26/2012 14:03	0.3	0.3	0.4	0 pulling casings
374	07/26/2012 14:04	0.3	0.3	0.4	374	07/26/2012 14:04	0.3	0.3	0.4	0 pulling casings
375	07/26/2012 14:05	0.3	0.3	0.4	375	07/26/2012 14:05	0.3	0.3	0.4	0 pulling casings
376	07/26/2012 14:06	0.3	0.3	0.4	376	07/26/2012 14:06	0.3	0.3	0.4	0 pulling casings
377	07/26/2012 14:07	0.3	0.3	0.4	377	07/26/2012 14:07	0.3	0.3	0.4	0 pulling casings
378	07/26/2012 14:08	0.3	0.3	0.3	378	07/26/2012 14:08	0.3	0.3	0.3	0 pulling casings
379	07/26/2012 14:09	0.3	0.3	0.4	379	07/26/2012 14:09	0.3	0.3	0.4	0 pulling casings
380	07/26/2012 14:10	0.3	0.3	0.4	380	07/26/2012 14:10	0.3	0.3	0.4	0 pulling casings
381	07/26/2012 14:11	0.3	0.3	0.4	381	07/26/2012 14:11	0.3	0.3	0.4	0 pulling casings
382	07/26/2012 14:12	0.3	0.3	0.4	382	07/26/2012 14:12	0.3	0.3	0.4	0 pulling casings
383	07/26/2012 14:13	0.3	0.3	0.4	383	07/26/2012 14:13	0.3	0.3	0.4	0 pulling casings
384	07/26/2012 14:14	0.3	0.3	0.4	384	07/26/2012 14:14	0.3	0.3	0.4	0 pulling casings
385	07/26/2012 14:15	0.3	0.3	0.4	385	07/26/2012 14:15	0.3	0.3	0.4	0 pulling casings
386	07/26/2012 14:16	0.3	0.3	0.4	386	07/26/2012 14:16	0.3	0.3	0.4	0 pulling casings
387	07/26/2012 14:17	0.3	0.3	0.4	387	07/26/2012 14:17	0.3	0.3	0.4	0 pulling casings
388	07/26/2012 14:18	0.3	0.3	0.4	388	07/26/2012 14:18	0.3	0.3	0.4	0 pulling casings
389	07/26/2012 14:19	0.3	0.3	0.4	389	07/26/2012 14:19	0.3	0.3	0.4	0 pulling casings
390	07/26/2012 14:20	0.3	0.3	0.4	390	07/26/2012 14:20	0.3	0.3	0.4	0 pulling casings
391	07/26/2012 14:21	0.3	0.3	0.4	391	07/26/2012 14:21	0.3	0.3	0.4	0 installing casings
392	07/26/2012 14:22	0.3	0.3	0.4	392	07/26/2012 14:22	0.3	0.3	0.4	0 installing casings
393	07/26/2012 14:23	0.3	0.3	0.5	393	07/26/2012 14:23	0.3	0.3	0.5	0 installing casings
394	07/26/2012 14:24	0.4	0.4	0.5	394	07/26/2012 14:24	0.4	0.4	0.5	0 installing casings
395	07/26/2012 14:25	0.4	0.4	0.5	395	07/26/2012 14:25	0.4	0.4	0.5	0 installing casings
396	07/26/2012 14:26	0.4	0.4	0.5	396	07/26/2012 14:26	0.4	0.4	0.5	0 installing casings
397	07/26/2012 14:27	0.3	0.4	0.5	397	07/26/2012 14:27	0.3	0.4	0.5	0 installing casings
398	07/26/2012 14:28	0.4	0.4	0.5	398	07/26/2012 14:28	0.4	0.4	0.5	0 installing casings
399	07/26/2012 14:29	0.3	0.3	0.4	399	07/26/2012 14:29	0.3	0.3	0.4	0 installing casings
400	07/26/2012 14:30	0.3	0.3	0.4	400	07/26/2012 14:30	0.3	0.3	0.4	0 installing casings
401	07/26/2012 14:31	0.3	0.3	0.4	401	07/26/2012 14:31	0.3	0.3	0.4	0 installing casings

402	07/26/2012 14:32	0.3	0.3	0.5	402	07/26/2012 14:32	0.3	0.3	0.5	0	installing casings
403	07/26/2012 14:33	0.4	0.4	0.5	403	07/26/2012 14:33	0.4	0.4	0.5	0	installing casings
404	07/26/2012 14:34	0.4	0.4	0.4	404	07/26/2012 14:34	0.4	0.4	0.4	0	installing casings
405	07/26/2012 14:35	0.3	0.3	0.4	405	07/26/2012 14:35	0.3	0.3	0.4	0	installing casings
406	07/26/2012 14:36	0.3	0.3	0.4	406	07/26/2012 14:36	0.3	0.3	0.4	0	installing casings
407	07/26/2012 14:37	0.3	0.4	0.5	407	07/26/2012 14:37	0.3	0.4	0.5	0	installing casings
408	07/26/2012 14:38	0.3	0.3	0.5	408	07/26/2012 14:38	0.3	0.3	0.5	0	installing casings
409	07/26/2012 14:39	0.3	0.3	0.4	409	07/26/2012 14:39	0.3	0.3	0.4	0	installing casings
410	07/26/2012 14:40	0.3	0.3	0.4	410	07/26/2012 14:40	0.3	0.3	0.4	0	installing casings
411	07/26/2012 14:41	0.3	0.3	0.4	411	07/26/2012 14:41	0.3	0.3	0.4	0	installing casings
412	07/26/2012 14:42	0.4	0.4	0.5	412	07/26/2012 14:42	0.4	0.4	0.5	0	installing casings
413	07/26/2012 14:43	0.3	0.4	0.5	413	07/26/2012 14:43	0.3	0.4	0.5	0	installing casings
414	07/26/2012 14:44	0.3	0.3	0.4	414	07/26/2012 14:44	0.3	0.3	0.4	0	installing casings
415	07/26/2012 14:45	0.3	0.3	0.4	415	07/26/2012 14:45	0.3	0.3	0.4	0	installing casings
416	07/26/2012 14:46	0.3	0.3	0.4	416	07/26/2012 14:46	0.3	0.3	0.4	0	installing casings
417	07/26/2012 14:47	0.3	0.3	0.4	417	07/26/2012 14:47	0.3	0.3	0.4	0	installing casings
418	07/26/2012 14:48	0.3	0.3	0.4	418	07/26/2012 14:48	0.3	0.3	0.4	0	installing casings
419	07/26/2012 14:49	0.3	0.3	0.4	419	07/26/2012 14:49	0.3	0.3	0.4	0	installing casings
420	07/26/2012 14:50	0.3	0.3	0.4	420	07/26/2012 14:50	0.3	0.3	0.4	0	installing casings
421	07/26/2012 14:51	0.3	0.3	0.4	421	07/26/2012 14:51	0.3	0.3	0.4	0	grouting
422	07/26/2012 14:52	0.3	0.3	0.4	422	07/26/2012 14:52	0.3	0.3	0.4	0	grouting
423	07/26/2012 14:53	0.3	0.3	0.4	423	07/26/2012 14:53	0.3	0.3	0.4	0	grouting
424	07/26/2012 14:54	0.3	0.3	0.4	424	07/26/2012 14:54	0.3	0.3	0.4	0	grouting
425	07/26/2012 14:55	0.3	0.3	0.4	425	07/26/2012 14:55	0.3	0.3	0.4	0	grouting
426	07/26/2012 14:56	0.4	0.4	0.4	426	07/26/2012 14:56	0.4	0.4	0.4	0	grouting
427	07/26/2012 14:57	0.3	0.3	0.4	427	07/26/2012 14:57	0.3	0.3	0.4	0	grouting
428	07/26/2012 14:58	0.4	0.4	0.5	428	07/26/2012 14:58	0.4	0.4	0.5	0	grouting
429	07/26/2012 14:59	0.3	0.3	0.4	429	07/26/2012 14:59	0.3	0.3	0.4	0	grouting
430	07/26/2012 15:00	0.3	0.3	0.4	430	07/26/2012 15:00	0.3	0.3	0.4	0	grouting
431	07/26/2012 15:01	0.3	0.3	0.4	431	07/26/2012 15:01	0.3	0.3	0.4	0	grouting
432	07/26/2012 15:02	0.3	0.3	0.4	432	07/26/2012 15:02	0.3	0.3	0.4	0	grouting
433	07/26/2012 15:03	0.3	0.3	0.4	433	07/26/2012 15:03	0.3	0.3	0.4	0	grouting
434	07/26/2012 15:04	0.3	0.3	0.4	434	07/26/2012 15:04	0.3	0.3	0.4	0	grouting
435	07/26/2012 15:05	0.4	0.4	0.5	435	07/26/2012 15:05	0.4	0.4	0.5	0	grouting
436	07/26/2012 15:06	0.3	0.4	0.5	436	07/26/2012 15:06	0.3	0.4	0.5	0	
437	07/26/2012 15:07	0.3	0.3	0.4	437	07/26/2012 15:07	0.3	0.3	0.4	0	
438	07/26/2012 15:08	0.3	0.3	0.4	438	07/26/2012 15:08	0.3	0.3	0.4	0	
439	07/26/2012 15:09	0.3	0.3	0.4	439	07/26/2012 15:09	0.3	0.3	0.4	0	
440	07/26/2012 15:10	0.3	0.3	0.4	440	07/26/2012 15:10	0.3	0.3	0.4	0	
441	07/26/2012 15:11	0.4	0.4	0.5	441	07/26/2012 15:11	0.4	0.4	0.5	0	
442	07/26/2012 15:12	0.4	0.4	0.4	442	07/26/2012 15:12	0.4	0.4	0.4	0	
443	07/26/2012 15:13	0.4	0.4	0.4	443	07/26/2012 15:13	0.4	0.4	0.4	0	
444	07/26/2012 15:14	0.4	0.4	0.5	444	07/26/2012 15:14	0.4	0.4	0.5	0	
445	07/26/2012 15:15	0.3	0.3	0.4	445	07/26/2012 15:15	0.3	0.3	0.4	0	
446	07/26/2012 15:16	0.3	0.3	0.4	446	07/26/2012 15:16	0.3	0.3	0.4	0	
447	07/26/2012 15:17	0.4	0.4	0.5	447	07/26/2012 15:17	0.4	0.4	0.5	0	
448	07/26/2012 15:18	0.4	0.4	0.5	448	07/26/2012 15:18	0.4	0.4	0.5	0	
449	07/26/2012 15:19	0.4	0.4	0.4	449	07/26/2012 15:19	0.4	0.4	0.4	0	
450	07/26/2012 15:20	0.3	0.3	0.4	450	07/26/2012 15:20	0.3	0.3	0.4	0	
451	07/26/2012 15:21	0.3	0.3	0.4	451	07/26/2012 15:21	0.3	0.3	0.4	0	
452	07/26/2012 15:22	0.3	0.3	0.4	452	07/26/2012 15:22	0.3	0.3	0.4	0	

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_002
Test Start Time	7:39:08 AM
Test Start Date	3/15/2013
Test Length [D:H:M]	0:05:46
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.05
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.534
Mass TWA [mg/m3]	0.036
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	346

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7:39:08 AM	0.504		
7:40:08 AM	0.006		
7:41:08 AM	0.009		
7:42:08 AM	0		
7:43:08 AM	0		
7:44:08 AM	0.039		
7:45:08 AM	0.015		
7:46:08 AM	0.01		
7:47:08 AM	0.007		
7:48:08 AM	0		
7:49:08 AM	0.04		
7:50:08 AM	0		
7:51:08 AM	0.015		
7:52:08 AM	0		
7:53:08 AM	0		
7:54:08 AM	0		
7:55:08 AM	0.004		
7:56:08 AM	0		
7:57:08 AM	0		
7:58:08 AM	0		
7:59:08 AM	0.003		
8:00:08 AM	0		
8:01:08 AM	0.009		
8:02:08 AM	0		
8:03:08 AM	0		
8:04:08 AM	0.01		
8:05:08 AM	0.001		
8:06:08 AM	0		
8:07:08 AM	0.002		
8:08:08 AM	0.105		
8:09:08 AM	0		
8:10:08 AM	0		
8:11:08 AM	0.002		
8:12:08 AM	0		
8:13:08 AM	0		
8:14:08 AM	0.055		
8:15:08 AM	0.085		
8:16:08 AM	0		
8:17:08 AM	0.003		
8:18:08 AM	0		
8:19:08 AM	0.001		
8:20:08 AM	0.001		
8:21:08 AM	0		
8:22:08 AM	0.057		
8:23:08 AM	0.074		
8:24:08 AM	0.12		
8:25:08 AM	0.09		
8:26:08 AM	0.05		
8:27:08 AM	0.164		
8:28:08 AM	0.259		
8:29:08 AM	0.449		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_001
Test Start Time	7:38:54 AM
Test Start Date	3/15/2013
Test Length [D:H:M]	0:05:45
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.183
Mass Minimum [mg/m3]	0.059
Mass Maximum [mg/m3]	2.5
Mass TWA [mg/m3]	0.131
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	340

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
7:38:54 AM	1.7			-1.196
7:39:54 AM	0.093			-0.087
7:40:54 AM	0.145			-0.136
7:41:54 AM	0.104			-0.104
7:42:54 AM	0.113			-0.113
7:43:54 AM	0.156			-0.117
7:44:54 AM	0.191			-0.176
7:45:54 AM	0.171			-0.161
7:46:54 AM	0.109			-0.102
7:47:54 AM	0.138			-0.138
7:48:54 AM	0.145			-0.105
7:49:54 AM	0.087			-0.087
7:50:54 AM	0.142			-0.127
7:51:54 AM	0.12			-0.12
7:52:54 AM	0.104			-0.104
7:53:54 AM	0.123			-0.123
7:54:54 AM	0.108			-0.104
7:55:54 AM	0.073			-0.073
7:56:54 AM	0.079			-0.079
7:57:54 AM	0.128			-0.128
7:58:54 AM	0.306			-0.303
7:59:54 AM	0.124			-0.124
8:00:54 AM	0.161			-0.152
8:01:54 AM	0.106			-0.106
8:02:54 AM	0.154			-0.154
8:03:54 AM	0.131			-0.121
8:04:54 AM	0.218			-0.217
8:05:54 AM	0.166			-0.166
8:06:54 AM	0.15			-0.148
8:07:54 AM	0.111			-0.006
8:08:54 AM	0.163			-0.163
8:09:54 AM	0.136			-0.136
8:10:54 AM	0.104			-0.102
8:11:54 AM	0.122			-0.122
8:12:54 AM	0.118			-0.118
8:13:54 AM	0.547			-0.492
8:14:54 AM	0.118			-0.033
8:15:54 AM	0.068			-0.068
8:16:54 AM	0.081			-0.078
8:17:54 AM	0.133			-0.133
8:18:54 AM	0.19			-0.189
8:19:54 AM	0.072			-0.071
8:20:54 AM	0.074			-0.074
8:21:54 AM	0.101			-0.044
8:22:54 AM	0.102			-0.028
8:23:54 AM	0.199			-0.079
8:24:54 AM	0.175			-0.085
8:25:54 AM	0.176			-0.126
8:26:54 AM	0.135			0.029
8:27:54 AM	0.108			0.151
8:28:54 AM	0.088			0.361

8:30:08 AM	0.233		8:29:54 AM	0.138	0.095
8:31:08 AM	0.257		8:30:54 AM	0.369	-0.112
8:32:08 AM	0.02		8:31:54 AM	0.337	-0.317
8:33:08 AM	0.029		8:32:54 AM	0.145	-0.116
8:34:08 AM	0		8:33:54 AM	0.137	-0.137
8:35:08 AM	0		8:34:54 AM	0.071	-0.071
8:36:08 AM	0.377		8:35:54 AM	0.088	0.289
8:37:08 AM	0.169		8:36:54 AM	0.139	0.03
8:38:08 AM	0.162		8:37:54 AM	0.181	-0.019
8:39:08 AM	0.258		8:38:54 AM	0.149	0.109
8:40:08 AM	0.119		8:39:54 AM	0.098	0.021
8:41:08 AM	0.017		8:40:54 AM	0.072	-0.055
8:42:08 AM	0.076		8:41:54 AM	0.09	-0.014
8:43:08 AM	0.104		8:42:54 AM	0.087	0.017
8:44:08 AM	0.023		8:43:54 AM	0.085	-0.062
8:45:08 AM	0.115		8:44:54 AM	0.092	0.023
8:46:08 AM	0.366		8:45:54 AM	0.163	0.203
8:47:08 AM	0.241		8:46:54 AM	0.087	0.154
8:48:08 AM	0.034		8:47:54 AM	0.078	-0.044
8:49:08 AM	0.075		8:48:54 AM	0.12	-0.045
8:50:08 AM	0.24		8:49:54 AM	0.105	0.135
8:51:08 AM	0.135		8:50:54 AM	0.083	0.052
8:52:08 AM	0.132		8:51:54 AM	0.125	0.007
8:53:08 AM	0.166		8:52:54 AM	0.123	0.043
8:54:08 AM	0.148		8:53:54 AM	0.409	-0.261
8:55:08 AM	0.302		8:54:54 AM	0.092	0.21
8:56:08 AM	0.13		8:55:54 AM	0.116	0.014
8:57:08 AM	0.019		8:56:54 AM	0.178	-0.159
8:58:08 AM	0.058		8:57:54 AM	0.221	-0.163
8:59:08 AM	0.025		8:58:54 AM	0.129	-0.104
9:00:08 AM	0.007		8:59:54 AM	0.098	-0.091
9:01:08 AM	0.002		9:00:54 AM	0.073	-0.071
9:02:08 AM	0.025		9:01:54 AM	0.068	-0.043
9:03:08 AM	0.062		9:02:54 AM	0.076	-0.014
9:04:08 AM	0.003		9:03:54 AM	0.104	-0.101
9:05:08 AM	0.05		9:04:54 AM	0.15	-0.1
9:06:08 AM	0.009		9:05:54 AM	0.103	-0.094
9:07:08 AM	0.001		9:06:54 AM	0.076	-0.075
9:08:08 AM	0		9:07:54 AM	0.152	-0.152
9:09:08 AM	0.039		9:08:54 AM	0.133	-0.094
9:10:08 AM	0.066		9:09:54 AM	0.119	-0.053
9:11:08 AM	0.037		9:10:54 AM	0.323	-0.286
9:12:08 AM	0.142		9:11:54 AM	0.299	-0.157
9:13:08 AM	0.167		9:12:54 AM	0.1	0.067
9:14:08 AM	0.039		9:13:54 AM	0.099	-0.06
9:15:08 AM	0.023		9:14:54 AM	0.118	-0.095
9:16:08 AM	0.002		9:15:54 AM	0.194	-0.192
9:17:08 AM	0.004		9:16:54 AM	0.202	-0.198
9:18:08 AM	0.006		9:17:54 AM	0.255	-0.249
9:19:08 AM	0.068		9:18:54 AM	0.308	-0.24
9:20:08 AM	0.292		9:19:54 AM	0.151	0.141
9:21:08 AM	0.022		9:20:54 AM	0.195	-0.173
9:22:08 AM	0.002		9:21:54 AM	0.186	-0.184
9:23:08 AM	0.033		9:22:54 AM	0.272	-0.239
9:24:08 AM	0.146		9:23:54 AM	0.241	-0.095
9:25:08 AM	0.084		9:24:54 AM	0.274	-0.19
9:26:08 AM	0.052		9:25:54 AM	0.383	-0.331
9:27:08 AM	0.207		9:26:54 AM	0.401	-0.194
9:28:08 AM	0.167		9:27:54 AM	0.233	-0.066
9:29:08 AM	0.139		9:28:54 AM	0.153	-0.014
9:30:08 AM	0.011		9:29:54 AM	0.263	-0.252
9:31:08 AM	0.029		9:30:54 AM	0.284	-0.255
9:32:08 AM	0.027		9:31:54 AM	0.427	-0.4
9:33:08 AM	0.066		9:32:54 AM	0.35	-0.284
9:34:08 AM	0.185		9:33:54 AM	0.261	-0.076
9:35:08 AM	0.137		9:34:54 AM	0.201	-0.064
9:36:08 AM	0.172		9:35:54 AM	0.19	-0.018
9:37:08 AM	0.075		9:36:54 AM	0.176	-0.101
9:38:08 AM	0.012		9:37:54 AM	0.146	-0.134
9:39:08 AM	0		9:38:54 AM	0.193	-0.193
9:40:08 AM	0		9:39:54 AM	0.15	-0.15
9:41:08 AM	0		9:40:54 AM	0.119	-0.119

9:42:08 AM	0		9:41:54 AM	0.221	-0.221
9:43:08 AM	0		9:42:54 AM	0.154	-0.154
9:44:08 AM	0.003		9:43:54 AM	0.206	-0.203
9:45:08 AM	0.001		9:44:54 AM	0.116	-0.115
9:46:08 AM	0		9:45:54 AM	0.112	-0.112
9:47:08 AM	0		9:46:54 AM	0.145	-0.145
9:48:08 AM	0		9:47:54 AM	0.335	-0.335
9:49:08 AM	0.021		9:48:54 AM	0.171	-0.15
9:50:08 AM	0.067		9:49:54 AM	0.149	-0.082
9:51:08 AM	0		9:50:54 AM	0.341	-0.341
9:52:08 AM	0.006		9:51:54 AM	0.235	-0.229
9:53:08 AM	0.03		9:52:54 AM	0.154	-0.124
9:54:08 AM	0.004		9:53:54 AM	0.126	-0.122
9:55:08 AM	0.003		9:54:54 AM	0.168	-0.165
9:56:08 AM	0.001		9:55:54 AM	0.289	-0.288
9:57:08 AM	0.073		9:56:54 AM	0.172	-0.099
9:58:08 AM	0.043		9:57:54 AM	0.126	-0.083
9:59:08 AM	0.081		9:58:54 AM	0.112	-0.031
10:00:08 AM	0		9:59:54 AM	0.154	-0.154
10:01:08 AM	0		10:00:54 AM	0.12	-0.12
10:02:08 AM	0		10:01:54 AM	0.11	-0.11
10:03:08 AM	0.002		10:02:54 AM	0.117	-0.115
10:04:08 AM	0.002		10:03:54 AM	0.155	-0.153
10:05:08 AM	0		10:04:54 AM	0.32	-0.32
10:06:08 AM	0.002		10:05:54 AM	0.375	-0.373
10:07:08 AM	0.028		10:06:54 AM	0.134	-0.106
10:08:08 AM	0.153		10:07:54 AM	0.137	0.016
10:09:08 AM	0.025		10:08:54 AM	0.223	-0.198
10:10:08 AM	0.003		10:09:54 AM	0.139	-0.136
10:11:08 AM	0.013		10:10:54 AM	0.112	-0.099
10:12:08 AM	0.002		10:11:54 AM	0.087	-0.085
10:13:08 AM	0.007		10:12:54 AM	0.129	-0.122
10:14:08 AM	0.002		10:13:54 AM	0.124	-0.122
10:15:08 AM	0.005		10:14:54 AM	0.459	-0.454
10:16:08 AM	0.01		10:15:54 AM	0.294	-0.284
10:17:08 AM	0.071		10:16:54 AM	0.125	-0.054
10:18:08 AM	0.282		10:17:54 AM	0.137	0.145
10:19:08 AM	0.013		10:18:54 AM	0.123	-0.11
10:20:08 AM	0		10:19:54 AM	0.117	-0.117
10:21:08 AM	0.041		10:20:54 AM	0.118	-0.077
10:22:08 AM	0.024		10:21:54 AM	0.093	-0.069
10:23:08 AM	0		10:22:54 AM	0.161	-0.161
10:24:08 AM	0		10:23:54 AM	0.293	-0.293
10:25:08 AM	0.109		10:24:54 AM	0.243	-0.134
10:26:08 AM	0.15		10:25:54 AM	0.217	-0.067
10:27:08 AM	0.125		10:26:54 AM	0.105	0.02
10:28:08 AM	0.233		10:27:54 AM	0.109	0.124
10:29:08 AM	0.251		10:28:54 AM	0.121	0.13
10:30:08 AM	0.178		10:29:54 AM	0.093	0.085
10:31:08 AM	0.128		10:30:54 AM	0.097	0.031
10:32:08 AM	0.127		10:31:54 AM	0.089	0.038
10:33:08 AM	0.253		10:32:54 AM	0.107	0.146
10:34:08 AM	0.139		10:33:54 AM	0.159	-0.02
10:35:08 AM	0.534		10:34:54 AM	0.2	0.334
10:36:08 AM	0.207		10:35:54 AM	0.256	-0.049
10:37:08 AM	0.156		10:36:54 AM	0.11	0.046
10:38:08 AM	0.233		10:37:54 AM	0.096	0.137
10:39:08 AM	0.43		10:38:54 AM	0.084	0.346
10:40:08 AM	0.142		10:39:54 AM	0.086	0.056
10:41:08 AM	0.316		10:40:54 AM	0.114	0.202
10:42:08 AM	0.049		10:41:54 AM	0.122	-0.073
10:43:08 AM	0.164		10:42:54 AM	0.138	0.026
10:44:08 AM	0.123		10:43:54 AM	0.108	0.015
10:45:08 AM	0.014		10:44:54 AM	0.588	-0.574
10:46:08 AM	0		10:45:54 AM	0.085	-0.085
10:47:08 AM	0.001		10:46:54 AM	0.067	-0.066
10:48:08 AM	0.017		10:47:54 AM	0.106	-0.089
10:49:08 AM	0		10:48:54 AM	0.075	-0.075
10:50:08 AM	0.001		10:49:54 AM	0.07	-0.069
10:51:08 AM	0		10:50:54 AM	0.077	-0.077
10:52:08 AM	0		10:51:54 AM	0.189	-0.189
10:53:08 AM	0		10:52:54 AM	0.161	-0.161

10:54:08 AM	0		10:53:54 AM	0.181	-0.181
10:55:08 AM	0		10:54:54 AM	0.206	-0.206
10:56:08 AM	0		10:55:54 AM	0.182	-0.182
10:57:08 AM	0.01		10:56:54 AM	0.114	-0.104
10:58:08 AM	0		10:57:54 AM	0.235	-0.235
10:59:08 AM	0.002		10:58:54 AM	0.108	-0.106
11:00:08 AM	0.02		10:59:54 AM	0.122	-0.102
11:01:08 AM	0.018		11:00:54 AM	0.078	-0.06
11:02:08 AM	0.001		11:01:54 AM	0.122	-0.121
11:03:08 AM	0.001		11:02:54 AM	0.121	-0.12
11:04:08 AM	0		11:03:54 AM	0.113	-0.113
11:05:08 AM	0.001		11:04:54 AM	0.093	-0.092
11:06:08 AM	0.003		11:05:54 AM	0.232	-0.229
11:07:08 AM	0.001		11:06:54 AM	0.127	-0.126
11:08:08 AM	0		11:07:54 AM	0.217	-0.217
11:09:08 AM	0.012		11:08:54 AM	0.098	-0.086
11:10:08 AM	0.003		11:09:54 AM	0.177	-0.174
11:11:08 AM	0.007		11:10:54 AM	0.154	-0.147
11:12:08 AM	0		11:11:54 AM	0.23	-0.23
11:13:08 AM	0.002		11:12:54 AM	0.183	-0.181
11:14:08 AM	0.003		11:13:54 AM	0.178	-0.175
11:15:08 AM	0.02		11:14:54 AM	0.207	-0.187
11:16:08 AM	0.007		11:15:54 AM	0.2	-0.193
11:17:08 AM	0.001		11:16:54 AM	0.182	-0.181
11:18:08 AM	0.031		11:17:54 AM	0.106	-0.075
11:19:08 AM	0.015		11:18:54 AM	0.079	-0.064
11:20:08 AM	0.036		11:19:54 AM	0.067	-0.031
11:21:08 AM	0.005		11:20:54 AM	0.129	-0.124
11:22:08 AM	0		11:21:54 AM	0.257	-0.257
11:23:08 AM	0		11:22:54 AM	0.132	-0.132
11:24:08 AM	0.003		11:23:54 AM	0.104	-0.101
11:25:08 AM	0		11:24:54 AM	0.12	-0.12
11:26:08 AM	0.029		11:25:54 AM	0.083	-0.054
11:27:08 AM	0.031		11:26:54 AM	0.214	-0.183
11:28:08 AM	0.001		11:27:54 AM	0.221	-0.22
11:29:08 AM	0		11:28:54 AM	0.192	-0.192
11:30:08 AM	0.021		11:29:54 AM	0.19	-0.169
11:31:08 AM	0.01		11:30:54 AM	0.182	-0.172
11:32:08 AM	0.015		11:31:54 AM	0.18	-0.165
11:33:08 AM	0.024		11:32:54 AM	0.142	-0.118
11:34:08 AM	0.01		11:33:54 AM	0.112	-0.102
11:35:08 AM	0.003		11:34:54 AM	0.264	-0.261
11:36:08 AM	0.016		11:35:54 AM	0.271	-0.255
11:37:08 AM	0.003		11:36:54 AM	0.165	-0.162
11:38:08 AM	0.154		11:37:54 AM	0.129	0.025
11:39:08 AM	0.066		11:38:54 AM	0.113	-0.047
11:40:08 AM	0.021		11:39:54 AM	0.107	-0.086
11:41:08 AM	0.022		11:40:54 AM	0.062	-0.04
11:42:08 AM	0.015		11:41:54 AM	0.099	-0.084
11:43:08 AM	0.015		11:42:54 AM	0.126	-0.111
11:44:08 AM	0.002		11:43:54 AM	0.166	-0.164
11:45:08 AM	0.004		11:44:54 AM	0.23	-0.226
11:46:08 AM	0.014		11:45:54 AM	0.098	-0.084
11:47:08 AM	0.011		11:46:54 AM	0.086	-0.075
11:48:08 AM	0.017		11:47:54 AM	0.115	-0.098
11:49:08 AM	0		11:48:54 AM	0.118	-0.118
11:50:08 AM	0.01		11:49:54 AM	0.115	-0.105
11:51:08 AM	0		11:50:54 AM	0.143	-0.143
11:52:08 AM	0		11:51:54 AM	0.095	-0.095
11:53:08 AM	0		11:52:54 AM	0.125	-0.125
11:54:08 AM	0.001		11:53:54 AM	0.094	-0.093
11:55:08 AM	0.017		11:54:54 AM	0.076	-0.059
11:56:08 AM	0		11:55:54 AM	0.117	-0.117
11:57:08 AM	0		11:56:54 AM	0.066	-0.066
11:58:08 AM	0.002		11:57:54 AM	0.059	-0.057
11:59:08 AM	0.002		11:58:54 AM	2.04	-2.038
12:00:08 PM	0.001		11:59:54 AM	0.163	-0.162
12:01:08 PM	0		12:00:54 PM	0.187	-0.187
12:02:08 PM	0		12:01:54 PM	0.147	-0.147
12:03:08 PM	0.104		12:02:54 PM	0.088	0.016
12:04:08 PM	0		12:03:54 PM	0.078	-0.078
12:05:08 PM	0.006		12:04:54 PM	0.116	-0.11

12:06:08 PM	0.003		12:05:54 PM	0.597	-0.594
12:07:08 PM	0		12:06:54 PM	0.387	-0.387
12:08:08 PM	0		12:07:54 PM	0.34	-0.34
12:09:08 PM	0		12:08:54 PM	0.302	-0.302
12:10:08 PM	0.047		12:09:54 PM	0.366	-0.319
12:11:08 PM	0.062		12:10:54 PM	0.15	-0.088
12:12:08 PM	0.102		12:11:54 PM	0.114	-0.012
12:13:08 PM	0.051		12:12:54 PM	0.087	-0.036
12:14:08 PM	0.061		12:13:54 PM	0.122	-0.061
12:15:08 PM	0.047		12:14:54 PM	0.263	-0.216
12:16:08 PM	0.002		12:15:54 PM	0.091	-0.089
12:17:08 PM	0.002		12:16:54 PM	0.072	-0.07
12:18:08 PM	0.002		12:17:54 PM	0.087	-0.085
12:19:08 PM	0.075		12:18:54 PM	0.086	-0.011
12:20:08 PM	0.019		12:19:54 PM	0.149	-0.13
12:21:08 PM	0		12:20:54 PM	0.169	-0.169
12:22:08 PM	0		12:21:54 PM	0.12	-0.12
12:23:08 PM	0.001		12:22:54 PM	0.235	-0.234
12:24:08 PM	0.001		12:23:54 PM	0.428	-0.427
12:25:08 PM	0		12:24:54 PM	0.384	-0.384
12:26:08 PM	0.001		12:25:54 PM	0.457	-0.456
12:27:08 PM	0.001		12:26:54 PM	0.191	-0.19
12:28:08 PM	0.261		12:27:54 PM	0.109	0.152
12:29:08 PM	0.044		12:28:54 PM	0.121	-0.077
12:30:08 PM	0.159		12:29:54 PM	0.148	0.011
12:31:08 PM	0.124		12:30:54 PM	0.1	0.024
12:32:08 PM	0.033		12:31:54 PM	0.09	-0.057
12:33:08 PM	0.004		12:32:54 PM	0.124	-0.12
12:34:08 PM	0.011		12:33:54 PM	0.119	-0.108
12:35:08 PM	0.003		12:34:54 PM	0.097	-0.094
12:36:08 PM	0.001		12:35:54 PM	0.106	-0.105
12:37:08 PM	0		12:36:54 PM	0.105	-0.105
12:38:08 PM	0.001		12:37:54 PM	0.094	-0.093
12:39:08 PM	0		12:38:54 PM	0.112	-0.112
12:40:08 PM	0		12:39:54 PM	0.135	-0.135
12:41:08 PM	0.001		12:40:54 PM	0.165	-0.164
12:42:08 PM	0.002		12:41:54 PM	0.152	-0.15
12:43:08 PM	0.001		12:42:54 PM	0.134	-0.133
12:44:08 PM	0.007		12:43:54 PM	0.114	-0.107
12:45:08 PM	0.016		12:44:54 PM	0.094	-0.078
12:46:08 PM	0.004		12:45:54 PM	0.107	-0.103
12:47:08 PM	0.006		12:46:54 PM	0.106	-0.1
12:48:08 PM	0.002		12:47:54 PM	0.126	-0.124
12:49:08 PM	0		12:48:54 PM	0.217	-0.217
12:50:08 PM	0		12:49:54 PM	0.12	-0.12
12:51:08 PM	0		12:50:54 PM	0.089	-0.089
12:52:08 PM	0.002		12:51:54 PM	0.123	-0.121
12:53:08 PM	0.019		12:52:54 PM	0.135	-0.116
12:54:08 PM	0.005		12:53:54 PM	0.167	-0.162
12:55:08 PM	0.001		12:54:54 PM	0.19	-0.189
12:56:08 PM	0		12:55:54 PM	0.234	-0.234
12:57:08 PM	0.003		12:56:54 PM	0.142	-0.139
12:58:08 PM	0.003		12:57:54 PM	0.118	-0.115
12:59:08 PM	0.006		12:58:54 PM	0.279	-0.273
1:00:08 PM	0.011		12:59:54 PM	0.199	-0.188
1:01:08 PM	0.005		1:00:54 PM	0.131	-0.126
1:02:08 PM	0.005		1:01:54 PM	0.101	-0.096
1:03:08 PM	0.001		1:02:54 PM	0.095	-0.094
1:04:08 PM	0.001		1:03:54 PM	0.105	-0.104
1:05:08 PM	0.001		1:04:54 PM	0.106	-0.105
1:06:08 PM	0.001		1:05:54 PM	0.108	-0.107
1:07:08 PM	0		1:06:54 PM	0.163	-0.163
1:08:08 PM	0.001		1:07:54 PM	0.621	-0.62
1:09:08 PM	0		1:08:54 PM	0.748	-0.748
1:10:08 PM	0.001		1:09:54 PM	0.497	-0.496
1:11:08 PM	0		1:10:54 PM	0.677	-0.677
1:12:08 PM	0.002		1:11:54 PM	0.272	-0.27
1:13:08 PM	0.19		1:12:54 PM	0.22	-0.03
1:14:08 PM	0.341		1:13:54 PM	0.107	0.234
1:15:08 PM	0.135		1:14:54 PM	0.117	0.018
1:16:08 PM	0.325		1:15:54 PM	0.363	-0.038
1:17:08 PM	0.123		1:16:54 PM	0.212	-0.089

1:18:08 PM	0.011	1:17:54 PM	2.5	-2.489
1:19:08 PM	0			0
1:20:08 PM	0.001			0.001
1:21:08 PM	0.02			0.02
1:22:08 PM	0.068			0.068
1:23:08 PM	0.009			0.009
1:24:08 PM	0.002			0.002

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_003
Test Start Time	6:44:52 AM
Test Start Date	3/16/2013
Test Length [D:H:M]	0:03:32
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.007
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	1.28
Mass TWA [mg/m3]	0.003
Photometric User Cal	1
Flow User Cal	1
Errors	Flow Error
Number of Samples	212

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_002
Test Start Time	6:47:13 AM
Test Start Date	3/16/2013
Test Length [D:H:M]	0:04:33
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.089
Mass Minimum [mg/m3]	0.021
Mass Maximum [mg/m3]	2.19
Mass TWA [mg/m3]	0.051
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	269

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:44:52 AM	1.28							1.28
6:45:52 AM	0							0
6:46:52 AM	0							0
6:47:52 AM	0			6:47:13 AM	2.19			-2.19
6:48:52 AM	0			6:48:13 AM	0.121			-0.121
6:49:52 AM	0			6:49:13 AM	0.083			-0.083
6:50:52 AM	0			6:50:13 AM	0.143			-0.143
6:51:52 AM	0			6:51:13 AM	0.139			-0.139
6:52:52 AM	0			6:52:13 AM	0.087			-0.087
6:53:52 AM	0			6:53:13 AM	0.046			-0.046
6:54:52 AM	0			6:54:13 AM	0.036			-0.036
6:55:52 AM	0			6:55:13 AM	0.075			-0.075
6:56:52 AM	0			6:56:13 AM	0.073			-0.073
6:57:52 AM	0			6:57:13 AM	0.244			-0.244
6:58:52 AM	0			6:58:13 AM	0.082			-0.082
6:59:52 AM	0			6:59:13 AM	0.061			-0.061
7:00:52 AM	0			7:00:13 AM	0.077			-0.077
7:01:52 AM	0			7:01:13 AM	0.117			-0.117
7:02:52 AM	0			7:02:13 AM	0.104			-0.104
7:03:52 AM	0			7:03:13 AM	0.086			-0.086
7:04:52 AM	0			7:04:13 AM	0.108			-0.108
7:05:52 AM	0			7:05:13 AM	0.12			-0.12
7:06:52 AM	0			7:06:13 AM	0.151			-0.151
7:07:52 AM	0			7:07:13 AM	0.109			-0.109
7:08:52 AM	0			7:08:13 AM	0.193			-0.193
7:09:52 AM	0			7:09:13 AM	0.375			-0.375
7:10:52 AM	0			7:10:13 AM	0.113			-0.113
7:11:52 AM	0			7:11:13 AM	0.148			-0.148
7:12:52 AM	0			7:12:13 AM	0.18			-0.18
7:13:52 AM	0			7:13:13 AM	0.128			-0.128
7:14:52 AM	0			7:14:13 AM	0.088			-0.088
7:15:52 AM	0			7:15:13 AM	0.085			-0.085
7:16:52 AM	0			7:16:13 AM	0.282			-0.282
7:17:52 AM	0			7:17:13 AM	0.3			-0.3
7:18:52 AM	0			7:18:13 AM	0.091			-0.091
7:19:52 AM	0			7:19:13 AM	0.094			-0.094
7:20:52 AM	0			7:20:13 AM	0.08			-0.08
7:21:52 AM	0			7:21:13 AM	0.06			-0.06
7:22:52 AM	0			7:22:13 AM	0.043			-0.043
7:23:52 AM	0.002			7:23:13 AM	0.267			-0.265
7:24:52 AM	0			7:24:13 AM	0.099			-0.099
7:25:52 AM	0			7:25:13 AM	0.068			-0.068
7:26:52 AM	0			7:26:13 AM	0.073			-0.073
7:27:52 AM	0			7:27:13 AM	0.376			-0.376
7:28:52 AM	0			7:28:13 AM	0.073			-0.073
7:29:52 AM	0			7:29:13 AM	0.05			-0.05
7:30:52 AM	0.004			7:30:13 AM	0.072			-0.068
7:31:52 AM	0			7:31:13 AM	0.115			-0.115
7:32:52 AM	0			7:32:13 AM	0.115			-0.115
7:33:52 AM	0			7:33:13 AM	0.069			-0.069
7:34:52 AM	0			7:34:13 AM	0.052			-0.052

7:35:52 AM	0		7:35:13 AM	0.062	-0.062
7:36:52 AM	0		7:36:13 AM	0.084	-0.084
7:37:52 AM	0		7:37:13 AM	0.077	-0.077
7:38:52 AM	0		7:38:13 AM	0.06	-0.06
7:39:52 AM	0		7:39:13 AM	0.043	-0.043
7:40:52 AM	0		7:40:13 AM	0.043	-0.043
7:41:52 AM	0		7:41:13 AM	0.041	-0.041
7:42:52 AM	0.001		7:42:13 AM	0.046	-0.045
7:43:52 AM	0.003		7:43:13 AM	0.056	-0.053
7:44:52 AM	0		7:44:13 AM	0.041	-0.041
7:45:52 AM	0		7:45:13 AM	0.042	-0.042
7:46:52 AM	0		7:46:13 AM	0.033	-0.033
7:47:52 AM	0		7:47:13 AM	0.042	-0.042
7:48:52 AM	0		7:48:13 AM	0.032	-0.032
7:49:52 AM	0		7:49:13 AM	0.03	-0.03
7:50:52 AM	0		7:50:13 AM	0.031	-0.031
7:51:52 AM	0		7:51:13 AM	0.032	-0.032
7:52:52 AM	0		7:52:13 AM	0.03	-0.03
7:53:52 AM	0		7:53:13 AM	0.048	-0.048
7:54:52 AM	0		7:54:13 AM	0.071	-0.071
7:55:52 AM	0		7:55:13 AM	0.069	-0.069
7:56:52 AM	0		7:56:13 AM	0.042	-0.042
7:57:52 AM	0		7:57:13 AM	0.036	-0.036
7:58:52 AM	0		7:58:13 AM	0.032	-0.032
7:59:52 AM	0		7:59:13 AM	0.101	-0.101
8:00:52 AM	0		8:00:13 AM	0.235	-0.235
8:01:52 AM	0		8:01:13 AM	1.09	-1.09
8:02:52 AM	0.038		8:02:13 AM	0.241	-0.203
8:03:52 AM	0		8:03:13 AM	0.868	-0.868
8:04:52 AM	0.013		8:04:13 AM	0.112	-0.099
8:05:52 AM	0		8:05:13 AM	0.062	-0.062
8:06:52 AM	0		8:06:13 AM	0.044	-0.044
8:07:52 AM	0		8:07:13 AM	0.054	-0.054
8:08:52 AM	0		8:08:13 AM	0.058	-0.058
8:09:52 AM	0		8:09:13 AM	0.045	-0.045
8:10:52 AM	0		8:10:13 AM	0.043	-0.043
8:11:52 AM	0		8:11:13 AM	0.036	-0.036
8:12:52 AM	0		8:12:13 AM	0.047	-0.047
8:13:52 AM	0		8:13:13 AM	0.05	-0.05
8:14:52 AM	0		8:14:13 AM	0.039	-0.039
8:15:52 AM	0		8:15:13 AM	0.04	-0.04
8:16:52 AM	0		8:16:13 AM	0.099	-0.099
8:17:52 AM	0		8:17:13 AM	0.124	-0.124
8:18:52 AM	0		8:18:13 AM	0.064	-0.064
8:19:52 AM	0		8:19:13 AM	0.046	-0.046
8:20:52 AM	0		8:20:13 AM	0.1	-0.1
8:21:52 AM	0		8:21:13 AM	0.037	-0.037
8:22:52 AM	0		8:22:13 AM	0.037	-0.037
8:23:52 AM	0		8:23:13 AM	0.037	-0.037
8:24:52 AM	0		8:24:13 AM	0.033	-0.033
8:25:52 AM	0		8:25:13 AM	0.029	-0.029
8:26:52 AM	0		8:26:13 AM	0.031	-0.031
8:27:52 AM	0		8:27:13 AM	0.05	-0.05
8:28:52 AM	0		8:28:13 AM	0.065	-0.065
8:29:52 AM	0		8:29:13 AM	0.072	-0.072
8:30:52 AM	0		8:30:13 AM	0.066	-0.066
8:31:52 AM	0		8:31:13 AM	0.059	-0.059
8:32:52 AM	0		8:32:13 AM	0.043	-0.043
8:33:52 AM	0		8:33:13 AM	0.034	-0.034
8:34:52 AM	0		8:34:13 AM	0.036	-0.036
8:35:52 AM	0		8:35:13 AM	0.054	-0.054
8:36:52 AM	0		8:36:13 AM	0.061	-0.061
8:37:52 AM	0		8:37:13 AM	0.047	-0.047
8:38:52 AM	0		8:38:13 AM	0.144	-0.144
8:39:52 AM	0		8:39:13 AM	0.074	-0.074
8:40:52 AM	0		8:40:13 AM	0.071	-0.071
8:41:52 AM	0		8:41:13 AM	0.047	-0.047
8:42:52 AM	0		8:42:13 AM	0.151	-0.151
8:43:52 AM	0		8:43:13 AM	0.09	-0.09
8:44:52 AM	0		8:44:13 AM	0.091	-0.091
8:45:52 AM	0		8:45:13 AM	0.084	-0.084
8:46:52 AM	0		8:46:13 AM	0.036	-0.036

8:47:52 AM	0		8:47:13 AM	0.029	-0.029
8:48:52 AM	0		8:48:13 AM	0.025	-0.025
8:49:52 AM	0		8:49:13 AM	0.051	-0.051
8:50:52 AM	0		8:50:13 AM	0.092	-0.092
8:51:52 AM	0		8:51:13 AM	0.11	-0.11
8:52:52 AM	0		8:52:13 AM	0.077	-0.077
8:53:52 AM	0		8:53:13 AM	0.051	-0.051
8:54:52 AM	0		8:54:13 AM	0.058	-0.058
8:55:52 AM	0		8:55:13 AM	0.158	-0.158
8:56:52 AM	0		8:56:13 AM	0.132	-0.132
8:57:52 AM	0		8:57:13 AM	0.103	-0.103
8:58:52 AM	0		8:58:13 AM	0.043	-0.043
8:59:52 AM	0		8:59:13 AM	0.049	-0.049
9:00:52 AM	0		9:00:13 AM	0.099	-0.099
9:01:52 AM	0		9:01:13 AM	0.054	-0.054
9:02:52 AM	0.027		9:02:13 AM	0.047	-0.02
9:03:52 AM	0		9:03:13 AM	0.032	-0.032
9:04:52 AM	0		9:04:13 AM	0.037	-0.037
9:05:52 AM	0		9:05:13 AM	0.042	-0.042
9:06:52 AM	0		9:06:13 AM	0.075	-0.075
9:07:52 AM	0		9:07:13 AM	0.065	-0.065
9:08:52 AM	0		9:08:13 AM	0.032	-0.032
9:09:52 AM	0		9:09:13 AM	0.034	-0.034
9:10:52 AM	0		9:10:13 AM	0.041	-0.041
9:11:52 AM	0		9:11:13 AM	0.054	-0.054
9:12:52 AM	0		9:12:13 AM	0.085	-0.085
9:13:52 AM	0		9:13:13 AM	0.04	-0.04
9:14:52 AM	0		9:14:13 AM	0.028	-0.028
9:15:52 AM	0		9:15:13 AM	0.168	-0.168
9:16:52 AM	0		9:16:13 AM	0.096	-0.096
9:17:52 AM	0		9:17:13 AM	0.033	-0.033
9:18:52 AM	0		9:18:13 AM	0.04	-0.04
9:19:52 AM	0.002		9:19:13 AM	0.037	-0.035
9:20:52 AM	0		9:20:13 AM	0.025	-0.025
9:21:52 AM	0		9:21:13 AM	0.026	-0.026
9:22:52 AM	0		9:22:13 AM	0.05	-0.05
9:23:52 AM	0.031		9:23:13 AM	0.035	-0.004
9:24:52 AM	0		9:24:13 AM	0.085	-0.085
9:25:52 AM	0		9:25:13 AM	0.055	-0.055
9:26:52 AM	0		9:26:13 AM	0.132	-0.132
9:27:52 AM	0		9:27:13 AM	0.115	-0.115
9:28:52 AM	0		9:28:13 AM	0.059	-0.059
9:29:52 AM	0		9:29:13 AM	0.041	-0.041
9:30:52 AM	0		9:30:13 AM	0.046	-0.046
9:31:52 AM	0		9:31:13 AM	0.06	-0.06
9:32:52 AM	0		9:32:13 AM	0.056	-0.056
9:33:52 AM	0.066		9:33:13 AM	0.039	0.027
9:34:52 AM	0		9:34:13 AM	0.066	-0.066
9:35:52 AM	0		9:35:13 AM	0.133	-0.133
9:36:52 AM	0		9:36:13 AM	0.048	-0.048
9:37:52 AM	0		9:37:13 AM	0.033	-0.033
9:38:52 AM	0.029		9:38:13 AM	0.081	-0.052
9:39:52 AM	0		9:39:13 AM	0.088	-0.088
9:40:52 AM	0.008		9:40:13 AM	0.07	-0.062
9:41:52 AM	0.002		9:41:13 AM	0.199	-0.197
9:42:52 AM	0		9:42:13 AM	1.04	-1.04
9:43:52 AM	0		9:43:13 AM	0.131	-0.131
9:44:52 AM	0		9:44:13 AM	0.172	-0.172
9:45:52 AM	0		9:45:13 AM	0.093	-0.093
9:46:52 AM	0.001		9:46:13 AM	0.075	-0.074
9:47:52 AM	0		9:47:13 AM	0.061	-0.061
9:48:52 AM	0		9:48:13 AM	0.063	-0.063
9:49:52 AM	0		9:49:13 AM	0.08	-0.08
9:50:52 AM	0		9:50:13 AM	0.075	-0.075
9:51:52 AM	0		9:51:13 AM	0.097	-0.097
9:52:52 AM	0		9:52:13 AM	0.066	-0.066
9:53:52 AM	0		9:53:13 AM	0.037	-0.037
9:54:52 AM	0		9:54:13 AM	0.041	-0.041
9:55:52 AM	0		9:55:13 AM	0.04	-0.04
9:56:52 AM	0		9:56:13 AM	0.094	-0.094
9:57:52 AM	0		9:57:13 AM	0.073	-0.073
9:58:52 AM	0		9:58:13 AM	0.051	-0.051

9:59:52 AM	0	
10:00:52 AM	0.003	
10:01:52 AM	0.017	
10:02:52 AM	0	
10:03:52 AM	0	
10:04:52 AM	0	
10:05:52 AM	0	
10:06:52 AM	0	
10:07:52 AM	0	
10:08:52 AM	0	
10:09:52 AM	0	
10:10:52 AM	0	
10:11:52 AM	0	
10:12:52 AM	0	
10:13:52 AM	0.001	Flow Error
10:14:52 AM	0.001	Flow Error
10:15:52 AM	0	Flow Error

9:59:13 AM	0.044	-0.044
10:00:13 AM	0.054	-0.051
10:01:13 AM	0.104	-0.087
10:02:13 AM	0.076	-0.076
10:03:13 AM	0.033	-0.033
10:04:13 AM	0.031	-0.031
10:05:13 AM	0.037	-0.037
10:06:13 AM	0.022	-0.022
10:07:13 AM	0.021	-0.021
10:08:13 AM	0.043	-0.043
10:09:13 AM	0.053	-0.053
10:10:13 AM	0.041	-0.041
10:11:13 AM	0.052	-0.052
10:12:13 AM	0.039	-0.039
10:13:13 AM	0.042	-0.041
10:14:13 AM	0.03	-0.029
10:15:13 AM	0.027	-0.027
10:16:13 AM	0.037	-0.037
10:17:13 AM	0.029	-0.029
10:18:13 AM	0.026	-0.026
10:19:13 AM	0.033	-0.033
10:20:13 AM	0.042	-0.042
10:21:13 AM	0.033	-0.033
10:22:13 AM	0.029	-0.029
10:23:13 AM	0.036	-0.036
10:24:13 AM	0.047	-0.047
10:25:13 AM	0.03	-0.03
10:26:13 AM	0.032	-0.032
10:27:13 AM	0.048	-0.048
10:28:13 AM	0.029	-0.029
10:29:13 AM	0.03	-0.03
10:30:13 AM	0.034	-0.034
10:31:13 AM	0.029	-0.029
10:32:13 AM	0.043	-0.043
10:33:13 AM	0.045	-0.045
10:34:13 AM	0.074	-0.074
10:35:13 AM	0.056	-0.056
10:36:13 AM	0.043	-0.043
10:37:13 AM	0.07	-0.07
10:38:13 AM	0.077	-0.077
10:39:13 AM	0.057	-0.057
10:40:13 AM	0.08	-0.08
10:41:13 AM	0.073	-0.073
10:42:13 AM	0.101	-0.101
10:43:13 AM	0.092	-0.092
10:44:13 AM	0.073	-0.073
10:45:13 AM	0.071	-0.071
10:46:13 AM	0.05	-0.05
10:47:13 AM	0.034	-0.034
10:48:13 AM	0.042	-0.042
10:49:13 AM	0.03	-0.03
10:50:13 AM	0.044	-0.044
10:51:13 AM	0.038	-0.038
10:52:13 AM	0.071	-0.071
10:53:13 AM	0.08	-0.08
10:54:13 AM	0.039	-0.039
10:55:13 AM	0.027	-0.027
10:56:13 AM	0.034	-0.034
10:57:13 AM	0.05	-0.05
10:58:13 AM	0.027	-0.027
10:59:13 AM	0.028	-0.028
11:00:13 AM	0.125	-0.125
11:01:13 AM	0.06	-0.06
11:02:13 AM	0.043	-0.043
11:03:13 AM	0.042	-0.042
11:04:13 AM	0.055	-0.055
11:05:13 AM	0.038	-0.038
11:06:13 AM	0.043	-0.043
11:07:13 AM	0.036	-0.036
11:08:13 AM	0.066	-0.066
11:09:13 AM	0.04	-0.04
11:10:13 AM	0.046	-0.046

11:11:13 AM	0.044	-0.044
11:12:13 AM	0.041	-0.041
11:13:13 AM	0.061	-0.061
11:14:13 AM	0.057	-0.057
11:15:13 AM	0.045	-0.045

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_004
Test Start Time	9:54:33 AM
Test Start Date	3/18/2013
Test Length [D:H:M]	0:05:48
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.003
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.235
Mass TWA [mg/m3]	0.002
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	348

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_004
Test Start Time	9:59:16 AM
Test Start Date	3/18/2013
Test Length [D:H:M]	0:05:45
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.054
Mass Minimum [mg/m3]	0.02
Mass Maximum [mg/m3]	3.18
Mass TWA [mg/m3]	0.039
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	340

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
9:54:33 AM	0.026							0.026
9:55:33 AM	0							0
9:56:33 AM	0							0
9:57:33 AM	0							0
9:58:33 AM	0							0
9:59:33 AM	0							0
10:00:33 AM	0			9:59:16 AM	3.18			-3.18
10:01:33 AM	0			10:00:16 AM	0.025			-0.025
10:02:33 AM	0			10:01:16 AM	0.025			-0.025
10:03:33 AM	0			10:02:16 AM	0.567			-0.567
10:04:33 AM	0			10:03:16 AM	0.037			-0.037
10:05:33 AM	0			10:04:16 AM	0.032			-0.032
10:06:33 AM	0			10:05:16 AM	0.031			-0.031
10:07:33 AM	0			10:06:16 AM	0.031			-0.031
10:08:33 AM	0			10:07:16 AM	0.032			-0.032
10:09:33 AM	0			10:08:16 AM	0.035			-0.035
10:10:33 AM	0			10:09:16 AM	0.028			-0.028
10:11:33 AM	0.002			10:10:16 AM	0.037			-0.035
10:12:33 AM	0			10:11:16 AM	0.053			-0.053
10:13:33 AM	0			10:12:16 AM	0.058			-0.058
10:14:33 AM	0			10:13:16 AM	0.041			-0.041
10:15:33 AM	0.001			10:14:16 AM	0.038			-0.037
10:16:33 AM	0			10:15:16 AM	0.024			-0.024
10:17:33 AM	0			10:16:16 AM	0.026			-0.026
10:18:33 AM	0.003			10:17:16 AM	0.03			-0.027
10:19:33 AM	0			10:18:16 AM	0.023			-0.023
10:20:33 AM	0			10:19:16 AM	0.023			-0.023
10:21:33 AM	0.144			10:20:16 AM	0.022			0.122
10:22:33 AM	0			10:21:16 AM	0.032			-0.032
10:23:33 AM	0			10:22:16 AM	0.023			-0.023
10:24:33 AM	0			10:23:16 AM	0.027			-0.027
10:25:33 AM	0			10:24:16 AM	0.024			-0.024
10:26:33 AM	0.002			10:25:16 AM	0.023			-0.021
10:27:33 AM	0.235			10:26:16 AM	0.022			0.213
10:28:33 AM	0			10:27:16 AM	0.022			-0.022
10:29:33 AM	0.051			10:28:16 AM	0.026			0.025
10:30:33 AM	0			10:29:16 AM	0.029			-0.029
10:31:33 AM	0			10:30:16 AM	0.032			-0.032
10:32:33 AM	0			10:31:16 AM	0.028			-0.028
10:33:33 AM	0			10:32:16 AM	0.022			-0.022
10:34:33 AM	0			10:33:16 AM	0.023			-0.023
10:35:33 AM	0			10:34:16 AM	0.027			-0.027
10:36:33 AM	0			10:35:16 AM	0.024			-0.024
10:37:33 AM	0			10:36:16 AM	0.032			-0.032
10:38:33 AM	0			10:37:16 AM	0.026			-0.026
10:39:33 AM	0			10:38:16 AM	0.022			-0.022
10:40:33 AM	0			10:39:16 AM	0.024			-0.024
10:41:33 AM	0			10:40:16 AM	0.038			-0.038
10:42:33 AM	0			10:41:16 AM	0.026			-0.026
10:43:33 AM	0			10:42:16 AM	0.021			-0.021

10:44:33 AM	0		10:43:16 AM	0.021	-0.021
10:45:33 AM	0		10:44:16 AM	0.022	-0.022
10:46:33 AM	0		10:45:16 AM	0.023	-0.023
10:47:33 AM	0.001		10:46:16 AM	0.035	-0.034
10:48:33 AM	0		10:47:16 AM	0.022	-0.022
10:49:33 AM	0		10:48:16 AM	0.027	-0.027
10:50:33 AM	0		10:49:16 AM	0.027	-0.027
10:51:33 AM	0		10:50:16 AM	0.034	-0.034
10:52:33 AM	0		10:51:16 AM	0.024	-0.024
10:53:33 AM	0		10:52:16 AM	0.039	-0.039
10:54:33 AM	0		10:53:16 AM	0.035	-0.035
10:55:33 AM	0		10:54:16 AM	0.028	-0.028
10:56:33 AM	0		10:55:16 AM	0.038	-0.038
10:57:33 AM	0		10:56:16 AM	0.026	-0.026
10:58:33 AM	0.001		10:57:16 AM	0.028	-0.027
10:59:33 AM	0.046		10:58:16 AM	0.043	0.003
11:00:33 AM	0.019		10:59:16 AM	0.057	-0.038
11:01:33 AM	0		11:00:16 AM	0.033	-0.033
11:02:33 AM	0.04		11:01:16 AM	0.033	0.007
11:03:33 AM	0		11:02:16 AM	0.03	-0.03
11:04:33 AM	0		11:03:16 AM	0.028	-0.028
11:05:33 AM	0		11:04:16 AM	0.023	-0.023
11:06:33 AM	0		11:05:16 AM	0.026	-0.026
11:07:33 AM	0.003		11:06:16 AM	0.046	-0.043
11:08:33 AM	0		11:07:16 AM	0.071	-0.071
11:09:33 AM	0		11:08:16 AM	0.781	-0.781
11:10:33 AM	0		11:09:16 AM	0.024	-0.024
11:11:33 AM	0		11:10:16 AM	0.034	-0.034
11:12:33 AM	0		11:11:16 AM	0.036	-0.036
11:13:33 AM	0		11:12:16 AM	0.054	-0.054
11:14:33 AM	0		11:13:16 AM	0.032	-0.032
11:15:33 AM	0		11:14:16 AM	0.026	-0.026
11:16:33 AM	0		11:15:16 AM	0.035	-0.035
11:17:33 AM	0		11:16:16 AM	0.099	-0.099
11:18:33 AM	0		11:17:16 AM	0.031	-0.031
11:19:33 AM	0		11:18:16 AM	0.046	-0.046
11:20:33 AM	0.001		11:19:16 AM	0.041	-0.04
11:21:33 AM	0		11:20:16 AM	0.032	-0.032
11:22:33 AM	0.109		11:21:16 AM	0.041	0.068
11:23:33 AM	0		11:22:16 AM	0.027	-0.027
11:24:33 AM	0		11:23:16 AM	0.033	-0.033
11:25:33 AM	0		11:24:16 AM	0.024	-0.024
11:26:33 AM	0		11:25:16 AM	0.026	-0.026
11:27:33 AM	0.002		11:26:16 AM	0.027	-0.025
11:28:33 AM	0		11:27:16 AM	0.048	-0.048
11:29:33 AM	0		11:28:16 AM	0.047	-0.047
11:30:33 AM	0		11:29:16 AM	0.036	-0.036
11:31:33 AM	0		11:30:16 AM	0.032	-0.032
11:32:33 AM	0		11:31:16 AM	0.028	-0.028
11:33:33 AM	0		11:32:16 AM	0.031	-0.031
11:34:33 AM	0		11:33:16 AM	0.022	-0.022
11:35:33 AM	0		11:34:16 AM	0.023	-0.023
11:36:33 AM	0		11:35:16 AM	0.022	-0.022
11:37:33 AM	0.007		11:36:16 AM	0.024	-0.017
11:38:33 AM	0		11:37:16 AM	0.023	-0.023
11:39:33 AM	0		11:38:16 AM	0.02	-0.02
11:40:33 AM	0		11:39:16 AM	0.02	-0.02
11:41:33 AM	0		11:40:16 AM	0.021	-0.021
11:42:33 AM	0		11:41:16 AM	0.025	-0.025
11:43:33 AM	0		11:42:16 AM	0.02	-0.02
11:44:33 AM	0		11:43:16 AM	0.025	-0.025
11:45:33 AM	0		11:44:16 AM	0.025	-0.025
11:46:33 AM	0		11:45:16 AM	0.023	-0.023
11:47:33 AM	0		11:46:16 AM	0.02	-0.02
11:48:33 AM	0		11:47:16 AM	0.021	-0.021
11:49:33 AM	0.016		11:48:16 AM	0.034	-0.018
11:50:33 AM	0.022		11:49:16 AM	0.05	-0.028
11:51:33 AM	0.118		11:50:16 AM	0.039	0.079
11:52:33 AM	0.001		11:51:16 AM	0.137	-0.136
11:53:33 AM	0		11:52:16 AM	0.032	-0.032
11:54:33 AM	0		11:53:16 AM	0.069	-0.069

11:55:33 AM	0.043		11:54:16 AM	0.053	-0.01
11:56:33 AM	0		11:55:16 AM	0.026	-0.026
11:57:33 AM	0.001		11:56:16 AM	0.021	-0.02
11:58:33 AM	0		11:57:16 AM	0.03	-0.03
11:59:33 AM	0		11:58:16 AM	0.056	-0.056
12:00:33 PM	0		11:59:16 AM	0.081	-0.081
12:01:33 PM	0		12:00:16 PM	0.104	-0.104
12:02:33 PM	0		12:01:16 PM	0.068	-0.068
12:03:33 PM	0		12:02:16 PM	0.259	-0.259
12:04:33 PM	0.003		12:03:16 PM	0.047	-0.044
12:05:33 PM	0		12:04:16 PM	0.065	-0.065
12:06:33 PM	0		12:05:16 PM	0.053	-0.053
12:07:33 PM	0		12:06:16 PM	0.132	-0.132
12:08:33 PM	0		12:07:16 PM	0.073	-0.073
12:09:33 PM	0		12:08:16 PM	0.028	-0.028
12:10:33 PM	0		12:09:16 PM	0.035	-0.035
12:11:33 PM	0		12:10:16 PM	0.031	-0.031
12:12:33 PM	0		12:11:16 PM	0.099	-0.099
12:13:33 PM	0.001		12:12:16 PM	0.035	-0.034
12:14:33 PM	0		12:13:16 PM	0.028	-0.028
12:15:33 PM	0		12:14:16 PM	0.045	-0.045
12:16:33 PM	0		12:15:16 PM	0.021	-0.021
12:17:33 PM	0		12:16:16 PM	0.038	-0.038
12:18:33 PM	0		12:17:16 PM	0.028	-0.028
12:19:33 PM	0		12:18:16 PM	0.047	-0.047
12:20:33 PM	0		12:19:16 PM	0.029	-0.029
12:21:33 PM	0		12:20:16 PM	0.032	-0.032
12:22:33 PM	0		12:21:16 PM	0.035	-0.035
12:23:33 PM	0		12:22:16 PM	0.031	-0.031
12:24:33 PM	0		12:23:16 PM	0.028	-0.028
12:25:33 PM	0		12:24:16 PM	0.026	-0.026
12:26:33 PM	0		12:25:16 PM	0.028	-0.028
12:27:33 PM	0		12:26:16 PM	0.031	-0.031
12:28:33 PM	0		12:27:16 PM	0.029	-0.029
12:29:33 PM	0		12:28:16 PM	0.027	-0.027
12:30:33 PM	0		12:29:16 PM	0.036	-0.036
12:31:33 PM	0		12:30:16 PM	0.066	-0.066
12:32:33 PM	0		12:31:16 PM	0.059	-0.059
12:33:33 PM	0.032		12:32:16 PM	0.024	0.008
12:34:33 PM	0		12:33:16 PM	0.04	-0.04
12:35:33 PM	0.002		12:34:16 PM	0.113	-0.111
12:36:33 PM	0.005		12:35:16 PM	0.096	-0.091
12:37:33 PM	0		12:36:16 PM	0.062	-0.062
12:38:33 PM	0		12:37:16 PM	0.107	-0.107
12:39:33 PM	0		12:38:16 PM	0.028	-0.028
12:40:33 PM	0		12:39:16 PM	0.19	-0.19
12:41:33 PM	0.14		12:40:16 PM	0.221	-0.081
12:42:33 PM	0.012		12:41:16 PM	0.065	-0.053
12:43:33 PM	0		12:42:16 PM	0.04	-0.04
12:44:33 PM	0		12:43:16 PM	0.031	-0.031
12:45:33 PM	0		12:44:16 PM	0.121	-0.121
12:46:33 PM	0		12:45:16 PM	0.025	-0.025
12:47:33 PM	0		12:46:16 PM	0.027	-0.027
12:48:33 PM	0		12:47:16 PM	0.025	-0.025
12:49:33 PM	0		12:48:16 PM	0.104	-0.104
12:50:33 PM	0.001		12:49:16 PM	0.067	-0.066
12:51:33 PM	0		12:50:16 PM	0.073	-0.073
12:52:33 PM	0		12:51:16 PM	0.145	-0.145
12:53:33 PM	0.002		12:52:16 PM	0.075	-0.073
12:54:33 PM	0		12:53:16 PM	0.052	-0.052
12:55:33 PM	0		12:54:16 PM	0.041	-0.041
12:56:33 PM	0		12:55:16 PM	0.071	-0.071
12:57:33 PM	0		12:56:16 PM	0.043	-0.043
12:58:33 PM	0.007		12:57:16 PM	0.039	-0.032
12:59:33 PM	0		12:58:16 PM	0.062	-0.062
1:00:33 PM	0		12:59:16 PM	0.032	-0.032
1:01:33 PM	0		1:00:16 PM	0.051	-0.051
1:02:33 PM	0		1:01:16 PM	0.068	-0.068
1:03:33 PM	0		1:02:16 PM	0.04	-0.04
1:04:33 PM	0		1:03:16 PM	0.053	-0.053
1:05:33 PM	0		1:04:16 PM	0.053	-0.053

1:06:33 PM	0	1:05:16 PM	0.039	-0.039
1:07:33 PM	0	1:06:16 PM	0.031	-0.031
1:08:33 PM	0	1:07:16 PM	0.023	-0.023
1:09:33 PM	0	1:08:16 PM	0.029	-0.029
1:10:33 PM	0	1:09:16 PM	0.024	-0.024
1:11:33 PM	0	1:10:16 PM	0.022	-0.022
1:12:33 PM	0	1:11:16 PM	0.024	-0.024
1:13:33 PM	0	1:12:16 PM	0.055	-0.055
1:14:33 PM	0	1:13:16 PM	0.079	-0.079
1:15:33 PM	0	1:14:16 PM	0.112	-0.112
1:16:33 PM	0.004	1:15:16 PM	0.168	-0.164
1:17:33 PM	0	1:16:16 PM	0.057	-0.057
1:18:33 PM	0	1:17:16 PM	0.122	-0.122
1:19:33 PM	0	1:18:16 PM	0.034	-0.034
1:20:33 PM	0	1:19:16 PM	0.025	-0.025
1:21:33 PM	0	1:20:16 PM	0.024	-0.024
1:22:33 PM	0	1:21:16 PM	0.033	-0.033
1:23:33 PM	0.001	1:22:16 PM	0.037	-0.036
1:24:33 PM	0	1:23:16 PM	0.032	-0.032
1:25:33 PM	0	1:24:16 PM	0.028	-0.028
1:26:33 PM	0.006	1:25:16 PM	0.029	-0.023
1:27:33 PM	0.001	1:26:16 PM	0.033	-0.032
1:28:33 PM	0	1:27:16 PM	0.024	-0.024
1:29:33 PM	0	1:28:16 PM	0.022	-0.022
1:30:33 PM	0	1:29:16 PM	0.021	-0.021
1:31:33 PM	0	1:30:16 PM	0.022	-0.022
1:32:33 PM	0	1:31:16 PM	0.023	-0.023
1:33:33 PM	0	1:32:16 PM	0.024	-0.024
1:34:33 PM	0	1:33:16 PM	0.023	-0.023
1:35:33 PM	0	1:34:16 PM	0.02	-0.02
1:36:33 PM	0	1:35:16 PM	0.023	-0.023
1:37:33 PM	0	1:36:16 PM	0.026	-0.026
1:38:33 PM	0	1:37:16 PM	0.025	-0.025
1:39:33 PM	0	1:38:16 PM	0.026	-0.026
1:40:33 PM	0	1:39:16 PM	0.036	-0.036
1:41:33 PM	0	1:40:16 PM	0.029	-0.029
1:42:33 PM	0	1:41:16 PM	0.042	-0.042
1:43:33 PM	0	1:42:16 PM	0.022	-0.022
1:44:33 PM	0	1:43:16 PM	0.023	-0.023
1:45:33 PM	0	1:44:16 PM	0.024	-0.024
1:46:33 PM	0	1:45:16 PM	0.027	-0.027
1:47:33 PM	0	1:46:16 PM	0.04	-0.04
1:48:33 PM	0	1:47:16 PM	0.021	-0.021
1:49:33 PM	0	1:48:16 PM	0.024	-0.024
1:50:33 PM	0	1:49:16 PM	0.026	-0.026
1:51:33 PM	0	1:50:16 PM	0.028	-0.028
1:52:33 PM	0	1:51:16 PM	0.034	-0.034
1:53:33 PM	0	1:52:16 PM	0.021	-0.021
1:54:33 PM	0	1:53:16 PM	0.022	-0.022
1:55:33 PM	0	1:54:16 PM	0.039	-0.039
1:56:33 PM	0	1:55:16 PM	0.022	-0.022
1:57:33 PM	0	1:56:16 PM	0.025	-0.025
1:58:33 PM	0	1:57:16 PM	0.023	-0.023
1:59:33 PM	0	1:58:16 PM	0.032	-0.032
2:00:33 PM	0	1:59:16 PM	0.104	-0.104
2:01:33 PM	0.008	2:00:16 PM	0.038	-0.03
2:02:33 PM	0	2:01:16 PM	0.056	-0.056
2:03:33 PM	0	2:02:16 PM	0.022	-0.022
2:04:33 PM	0.001	2:03:16 PM	0.024	-0.023
2:05:33 PM	0	2:04:16 PM	0.033	-0.033
2:06:33 PM	0	2:05:16 PM	0.022	-0.022
2:07:33 PM	0	2:06:16 PM	0.026	-0.026
2:08:33 PM	0	2:07:16 PM	0.025	-0.025
2:09:33 PM	0	2:08:16 PM	0.025	-0.025
2:10:33 PM	0	2:09:16 PM	0.02	-0.02
2:11:33 PM	0	2:10:16 PM	0.027	-0.027
2:12:33 PM	0	2:11:16 PM	0.023	-0.023
2:13:33 PM	0	2:12:16 PM	0.028	-0.028
2:14:33 PM	0	2:13:16 PM	0.08	-0.08
2:15:33 PM	0	2:14:16 PM	0.109	-0.109
2:16:33 PM	0	2:15:16 PM	0.032	-0.032

2:17:33 PM	0		2:16:16 PM	0.028	-0.028
2:18:33 PM	0		2:17:16 PM	0.036	-0.036
2:19:33 PM	0		2:18:16 PM	0.081	-0.081
2:20:33 PM	0		2:19:16 PM	0.029	-0.029
2:21:33 PM	0		2:20:16 PM	0.029	-0.029
2:22:33 PM	0		2:21:16 PM	0.021	-0.021
2:23:33 PM	0		2:22:16 PM	0.046	-0.046
2:24:33 PM	0		2:23:16 PM	0.185	-0.185
2:25:33 PM	0		2:24:16 PM	0.063	-0.063
2:26:33 PM	0		2:25:16 PM	0.067	-0.067
2:27:33 PM	0		2:26:16 PM	0.052	-0.052
2:28:33 PM	0		2:27:16 PM	0.149	-0.149
2:29:33 PM	0		2:28:16 PM	0.074	-0.074
2:30:33 PM	0.001		2:29:16 PM	0.066	-0.065
2:31:33 PM	0		2:30:16 PM	0.027	-0.027
2:32:33 PM	0		2:31:16 PM	0.024	-0.024
2:33:33 PM	0		2:32:16 PM	0.023	-0.023
2:34:33 PM	0		2:33:16 PM	0.021	-0.021
2:35:33 PM	0		2:34:16 PM	0.026	-0.026
2:36:33 PM	0		2:35:16 PM	0.026	-0.026
2:37:33 PM	0		2:36:16 PM	0.026	-0.026
2:38:33 PM	0		2:37:16 PM	0.024	-0.024
2:39:33 PM	0		2:38:16 PM	0.026	-0.026
2:40:33 PM	0		2:39:16 PM	0.037	-0.037
2:41:33 PM	0		2:40:16 PM	0.033	-0.033
2:42:33 PM	0.003		2:41:16 PM	0.051	-0.048
2:43:33 PM	0		2:42:16 PM	0.022	-0.022
2:44:33 PM	0		2:43:16 PM	0.022	-0.022
2:45:33 PM	0.016		2:44:16 PM	0.024	-0.008
2:46:33 PM	0		2:45:16 PM	0.023	-0.023
2:47:33 PM	0		2:46:16 PM	0.022	-0.022
2:48:33 PM	0		2:47:16 PM	0.021	-0.021
2:49:33 PM	0		2:48:16 PM	0.029	-0.029
2:50:33 PM	0		2:49:16 PM	0.022	-0.022
2:51:33 PM	0		2:50:16 PM	0.021	-0.021
2:52:33 PM	0		2:51:16 PM	0.022	-0.022
2:53:33 PM	0		2:52:16 PM	0.028	-0.028
2:54:33 PM	0		2:53:16 PM	0.027	-0.027
2:55:33 PM	0		2:54:16 PM	0.028	-0.028
2:56:33 PM	0		2:55:16 PM	0.023	-0.023
2:57:33 PM	0		2:56:16 PM	0.025	-0.025
2:58:33 PM	0		2:57:16 PM	0.023	-0.023
2:59:33 PM	0		2:58:16 PM	0.02	-0.02
3:00:33 PM	0		2:59:16 PM	0.023	-0.023
3:01:33 PM	0		3:00:16 PM	0.021	-0.021
3:02:33 PM	0		3:01:16 PM	0.02	-0.02
3:03:33 PM	0		3:02:16 PM	0.023	-0.023
3:04:33 PM	0		3:03:16 PM	0.024	-0.024
3:05:33 PM	0		3:04:16 PM	0.231	-0.231
3:06:33 PM	0		3:05:16 PM	0.033	-0.033
3:07:33 PM	0		3:06:16 PM	0.029	-0.029
3:08:33 PM	0.006		3:07:16 PM	0.027	-0.021
3:09:33 PM	0.017		3:08:16 PM	0.035	-0.018
3:10:33 PM	0		3:09:16 PM	0.026	-0.026
3:11:33 PM	0		3:10:16 PM	0.029	-0.029
3:12:33 PM	0		3:11:16 PM	0.024	-0.024
3:13:33 PM	0		3:12:16 PM	0.045	-0.045
3:14:33 PM	0		3:13:16 PM	0.036	-0.036
3:15:33 PM	0		3:14:16 PM	0.062	-0.062
3:16:33 PM	0		3:15:16 PM	0.071	-0.071
3:17:33 PM	0		3:16:16 PM	0.04	-0.04
3:18:33 PM	0		3:17:16 PM	0.033	-0.033
3:19:33 PM	0		3:18:16 PM	0.05	-0.05
3:20:33 PM	0		3:19:16 PM	0.038	-0.038
3:21:33 PM	0		3:20:16 PM	0.038	-0.038
3:22:33 PM	0		3:21:16 PM	0.038	-0.038
3:23:33 PM	0		3:22:16 PM	0.057	-0.057
3:24:33 PM	0		3:23:16 PM	0.038	-0.038
3:25:33 PM	0		3:24:16 PM	0.036	-0.036
3:26:33 PM	0		3:25:16 PM	0.027	-0.027
3:27:33 PM	0		3:26:16 PM	0.028	-0.028

3:28:33 PM	0	3:27:16 PM	0.025	-0.025
3:29:33 PM	0	3:28:16 PM	0.028	-0.028
3:30:33 PM	0	3:29:16 PM	0.033	-0.033
3:31:33 PM	0	3:30:16 PM	0.026	-0.026
3:32:33 PM	0	3:31:16 PM	0.023	-0.023
3:33:33 PM	0	3:32:16 PM	0.025	-0.025
3:34:33 PM	0	3:33:16 PM	0.034	-0.034
3:35:33 PM	0	3:34:16 PM	0.05	-0.05
3:36:33 PM	0	3:35:16 PM	0.089	-0.089
3:37:33 PM	0	3:36:16 PM	0.03	-0.03
3:38:33 PM	0	3:37:16 PM	0.026	-0.026
3:39:33 PM	0	3:38:16 PM	0.024	-0.024
3:40:33 PM	0			0
3:41:33 PM	0			0

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_005
Test Start Time	8:19:07 AM
Test Start Date	3/19/2013
Test Length [D:H:M]	0:13:33
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.001
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.072
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	535

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8:19:07 AM	0.006		
8:20:07 AM	0		
8:21:07 AM	0		
8:22:07 AM	0		
8:23:07 AM	0		
8:24:07 AM	0		
8:25:07 AM	0		
8:26:07 AM	0		
8:27:07 AM	0		
8:28:07 AM	0		
8:29:07 AM	0		
8:30:07 AM	0		
8:31:07 AM	0.003		
8:32:07 AM	0.04		
8:33:07 AM	0.009		
8:34:07 AM	0		
8:35:07 AM	0		
8:36:07 AM	0		
8:37:07 AM	0		
8:38:07 AM	0		
8:39:07 AM	0		
8:40:07 AM	0		
8:41:07 AM	0		
8:42:07 AM	0		
8:43:07 AM	0		
8:44:07 AM	0		
8:45:07 AM	0.01		
8:46:07 AM	0		
8:47:07 AM	0		
8:48:07 AM	0		
8:49:07 AM	0		
8:50:07 AM	0		
8:51:07 AM	0		
8:52:07 AM	0		
8:53:07 AM	0		
8:54:07 AM	0		
8:55:07 AM	0		
8:56:07 AM	0		
8:57:07 AM	0		
8:58:07 AM	0		
8:59:07 AM	0		
9:00:07 AM	0		
9:01:07 AM	0		
9:02:07 AM	0		
9:03:07 AM	0		
9:04:07 AM	0		
9:05:07 AM	0		
9:06:07 AM	0		
9:07:07 AM	0		
9:08:07 AM	0		
9:09:07 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_005
Test Start Time	8:21:45 AM
Test Start Date	3/19/2013
Test Length [D:H:M]	0:08:55
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.04
Mass Minimum [mg/m3]	0.014
Mass Maximum [mg/m3]	0.146
Mass TWA [mg/m3]	0.038
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	527

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
				0.006
				0
8:21:45 AM	0.038			-0.038
8:22:45 AM	0.038			-0.038
8:23:45 AM	0.035			-0.035
8:24:45 AM	0.025			-0.025
8:25:45 AM	0.047			-0.047
8:26:45 AM	0.029			-0.029
8:27:45 AM	0.039			-0.039
8:28:45 AM	0.032			-0.032
8:29:45 AM	0.021			-0.021
8:30:45 AM	0.058			-0.058
8:31:45 AM	0.049			-0.046
8:32:45 AM	0.042			-0.002
8:33:45 AM	0.033			-0.024
8:34:45 AM	0.049			-0.049
8:35:45 AM	0.047			-0.047
8:36:45 AM	0.04			-0.04
8:37:45 AM	0.124			-0.124
8:38:45 AM	0.048			-0.048
8:39:45 AM	0.071			-0.071
8:40:45 AM	0.053			-0.053
8:41:45 AM	0.042			-0.042
8:42:45 AM	0.02			-0.02
8:43:45 AM	0.024			-0.024
8:44:45 AM	0.027			-0.027
8:45:45 AM	0.054			-0.044
8:46:45 AM	0.05			-0.05
8:47:45 AM	0.043			-0.043
8:48:45 AM	0.045			-0.045
8:49:45 AM	0.028			-0.028
8:50:45 AM	0.026			-0.026
8:51:45 AM	0.026			-0.026
8:52:45 AM	0.049			-0.049
8:53:45 AM	0.073			-0.073
8:54:45 AM	0.064			-0.064
8:55:45 AM	0.039			-0.039
8:56:45 AM	0.032			-0.032
8:57:45 AM	0.029			-0.029
8:58:45 AM	0.036			-0.036
8:59:45 AM	0.021			-0.021
9:00:45 AM	0.023			-0.023
9:01:45 AM	0.022			-0.022
9:02:45 AM	0.017			-0.017
9:03:45 AM	0.016			-0.016
9:04:45 AM	0.022			-0.022
9:05:45 AM	0.031			-0.031
9:06:45 AM	0.018			-0.018
9:07:45 AM	0.021			-0.021
9:08:45 AM	0.023			-0.023
9:09:45 AM	0.016			-0.016

9:10:07 AM	0		9:10:45 AM	0.019	-0.019
9:11:07 AM	0		9:11:45 AM	0.025	-0.025
9:12:07 AM	0		9:12:45 AM	0.016	-0.016
9:13:07 AM	0		9:13:45 AM	0.045	-0.045
9:14:07 AM	0		9:14:45 AM	0.026	-0.026
9:15:07 AM	0		9:15:45 AM	0.018	-0.018
9:16:07 AM	0		9:16:45 AM	0.021	-0.021
9:17:07 AM	0		9:17:45 AM	0.015	-0.015
9:18:07 AM	0		9:18:45 AM	0.014	-0.014
9:19:07 AM	0		9:19:45 AM	0.031	-0.031
9:20:07 AM	0		9:20:45 AM	0.04	-0.04
9:21:07 AM	0		9:21:45 AM	0.043	-0.043
9:22:07 AM	0		9:22:45 AM	0.032	-0.032
9:23:07 AM	0		9:23:45 AM	0.077	-0.077
9:24:07 AM	0		9:24:45 AM	0.059	-0.059
9:25:07 AM	0		9:25:45 AM	0.066	-0.066
9:26:07 AM	0		9:26:45 AM	0.087	-0.087
9:27:07 AM	0		9:27:45 AM	0.049	-0.049
9:28:07 AM	0		9:28:45 AM	0.051	-0.051
9:29:07 AM	0		9:29:45 AM	0.038	-0.038
9:30:07 AM	0		9:30:45 AM	0.031	-0.031
9:31:07 AM	0		9:31:45 AM	0.038	-0.038
9:32:07 AM	0.014		9:32:45 AM	0.03	-0.016
9:33:07 AM	0		9:33:45 AM	0.03	-0.03
9:34:07 AM	0		9:34:45 AM	0.029	-0.029
9:35:07 AM	0		9:35:45 AM	0.024	-0.024
9:36:07 AM	0		9:36:45 AM	0.032	-0.032
9:37:07 AM	0		9:37:45 AM	0.032	-0.032
9:38:07 AM	0		9:38:45 AM	0.024	-0.024
9:39:07 AM	0.023		9:39:45 AM	0.022	0.001
9:40:07 AM	0		9:40:45 AM	0.031	-0.031
9:41:07 AM	0		9:41:45 AM	0.031	-0.031
9:42:07 AM	0		9:42:45 AM	0.047	-0.047
9:43:07 AM	0.001		9:43:45 AM	0.034	-0.033
9:44:07 AM	0		9:44:45 AM	0.043	-0.043
9:45:07 AM	0		9:45:45 AM	0.047	-0.047
9:46:07 AM	0		9:46:45 AM	0.026	-0.026
9:47:07 AM	0		9:47:45 AM	0.028	-0.028
9:48:07 AM	0		9:48:45 AM	0.038	-0.038
9:49:07 AM	0		9:49:45 AM	0.035	-0.035
9:50:07 AM	0		9:50:45 AM	0.026	-0.026
9:51:07 AM	0		9:51:45 AM	0.024	-0.024
9:52:07 AM	0		9:52:45 AM	0.033	-0.033
9:53:07 AM	0		9:53:45 AM	0.026	-0.026
9:54:07 AM	0		9:54:45 AM	0.034	-0.034
9:55:07 AM	0		9:55:45 AM	0.034	-0.034
9:56:07 AM	0		9:56:45 AM	0.028	-0.028
9:57:07 AM	0		9:57:45 AM	0.047	-0.047
9:58:07 AM	0		9:58:45 AM	0.026	-0.026
9:59:07 AM	0		9:59:45 AM	0.021	-0.021
10:00:07 AM	0		10:00:45 AM	0.03	-0.03
10:01:07 AM	0		10:01:45 AM	0.024	-0.024
10:02:07 AM	0		10:02:45 AM	0.026	-0.026
10:03:07 AM	0		10:03:45 AM	0.03	-0.03
10:04:07 AM	0.001		10:04:45 AM	0.021	-0.02
10:05:07 AM	0		10:05:45 AM	0.023	-0.023
10:06:07 AM	0		10:06:45 AM	0.022	-0.022
10:07:07 AM	0		10:07:45 AM	0.025	-0.025
10:08:07 AM	0		10:08:45 AM	0.032	-0.032
10:09:07 AM	0		10:09:45 AM	0.028	-0.028
10:10:07 AM	0		10:10:45 AM	0.035	-0.035
10:11:07 AM	0		10:11:45 AM	0.025	-0.025
10:12:07 AM	0		10:12:45 AM	0.019	-0.019
10:13:07 AM	0		10:13:45 AM	0.019	-0.019
10:14:07 AM	0		10:14:45 AM	0.02	-0.02
10:15:07 AM	0		10:15:45 AM	0.081	-0.081
10:16:07 AM	0		10:16:45 AM	0.029	-0.029
10:17:07 AM	0		10:17:45 AM	0.023	-0.023
10:18:07 AM	0		10:18:45 AM	0.029	-0.029
10:19:07 AM	0		10:19:45 AM	0.024	-0.024
10:20:07 AM	0		10:20:45 AM	0.05	-0.05
10:21:07 AM	0		10:21:45 AM	0.025	-0.025

10:22:07 AM	0		10:22:45 AM	0.026	-0.026
10:23:07 AM	0		10:23:45 AM	0.035	-0.035
10:24:07 AM	0		10:24:45 AM	0.034	-0.034
10:25:07 AM	0		10:25:45 AM	0.042	-0.042
10:26:07 AM	0		10:26:45 AM	0.045	-0.045
10:27:07 AM	0		10:27:45 AM	0.051	-0.051
10:28:07 AM	0		10:28:45 AM	0.061	-0.061
10:29:07 AM	0		10:29:45 AM	0.056	-0.056
10:30:07 AM	0		10:30:45 AM	0.046	-0.046
10:31:07 AM	0		10:31:45 AM	0.038	-0.038
10:32:07 AM	0		10:32:45 AM	0.041	-0.041
10:33:07 AM	0		10:33:45 AM	0.041	-0.041
10:34:07 AM	0		10:34:45 AM	0.047	-0.047
10:35:07 AM	0		10:35:45 AM	0.053	-0.053
10:36:07 AM	0		10:36:45 AM	0.048	-0.048
10:37:07 AM	0		10:37:45 AM	0.049	-0.049
10:38:07 AM	0		10:38:45 AM	0.053	-0.053
10:39:07 AM	0		10:39:45 AM	0.065	-0.065
10:40:07 AM	0		10:40:45 AM	0.066	-0.066
10:41:07 AM	0		10:41:45 AM	0.067	-0.067
10:42:07 AM	0		10:42:45 AM	0.056	-0.056
10:43:07 AM	0		10:43:45 AM	0.038	-0.038
10:44:07 AM	0		10:44:45 AM	0.044	-0.044
10:45:07 AM	0		10:45:45 AM	0.046	-0.046
10:46:07 AM	0		10:46:45 AM	0.05	-0.05
10:47:07 AM	0.036		10:47:45 AM	0.101	-0.065
10:48:07 AM	0		10:48:45 AM	0.059	-0.059
10:49:07 AM	0		10:49:45 AM	0.054	-0.054
10:50:07 AM	0		10:50:45 AM	0.06	-0.06
10:51:07 AM	0		10:51:45 AM	0.072	-0.072
10:52:07 AM	0		10:52:45 AM	0.055	-0.055
10:53:07 AM	0		10:53:45 AM	0.046	-0.046
10:54:07 AM	0		10:54:45 AM	0.062	-0.062
10:55:07 AM	0.016		10:55:45 AM	0.044	-0.028
10:56:07 AM	0		10:56:45 AM	0.038	-0.038
10:57:07 AM	0		10:57:45 AM	0.052	-0.052
10:58:07 AM	0		10:58:45 AM	0.06	-0.06
10:59:07 AM	0		10:59:45 AM	0.033	-0.033
11:00:07 AM	0		11:00:45 AM	0.044	-0.044
11:01:07 AM	0		11:01:45 AM	0.033	-0.033
11:02:07 AM	0		11:02:45 AM	0.041	-0.041
11:03:07 AM	0		11:03:45 AM	0.032	-0.032
11:04:07 AM	0		11:04:45 AM	0.037	-0.037
11:05:07 AM	0		11:05:45 AM	0.041	-0.041
11:06:07 AM	0		11:06:45 AM	0.044	-0.044
11:07:07 AM	0.053		11:07:45 AM	0.057	-0.004
11:08:07 AM	0.043		11:08:45 AM	0.056	-0.013
11:09:07 AM	0.072		11:09:45 AM	0.056	0.016
11:10:07 AM	0		11:10:45 AM	0.061	-0.061
11:11:07 AM	0		11:11:45 AM	0.041	-0.041
11:12:07 AM	0		11:12:45 AM	0.048	-0.048
11:13:07 AM	0		11:13:45 AM	0.054	-0.054
11:14:07 AM	0		11:14:45 AM	0.036	-0.036
11:15:07 AM	0.021		11:15:45 AM	0.033	-0.012
11:16:07 AM	0		11:16:45 AM	0.035	-0.035
11:17:07 AM	0		11:17:45 AM	0.041	-0.041
11:18:07 AM	0		11:18:45 AM	0.045	-0.045
11:19:07 AM	0		11:19:45 AM	0.05	-0.05
11:20:07 AM	0		11:20:45 AM	0.043	-0.043
11:21:07 AM	0		11:21:45 AM	0.045	-0.045
11:22:07 AM	0		11:22:45 AM	0.049	-0.049
11:23:07 AM	0		11:23:45 AM	0.056	-0.056
11:24:07 AM	0		11:24:45 AM	0.04	-0.04
11:25:07 AM	0		11:25:45 AM	0.027	-0.027
11:26:07 AM	0.002		11:26:45 AM	0.027	-0.025
11:27:07 AM	0		11:27:45 AM	0.032	-0.032
11:28:07 AM	0		11:28:45 AM	0.031	-0.031
11:29:07 AM	0		11:29:45 AM	0.029	-0.029
11:30:07 AM	0		11:30:45 AM	0.03	-0.03
11:31:07 AM	0		11:31:45 AM	0.034	-0.034
11:32:07 AM	0		11:32:45 AM	0.038	-0.038
11:33:07 AM	0		11:33:45 AM	0.04	-0.04

11:34:07 AM	0		11:34:45 AM	0.042	-0.042
11:35:07 AM	0		11:35:45 AM	0.043	-0.043
11:36:07 AM	0		11:36:45 AM	0.044	-0.044
11:37:07 AM	0		11:37:45 AM	0.038	-0.038
11:38:07 AM	0		11:38:45 AM	0.034	-0.034
11:39:07 AM	0		11:39:45 AM	0.033	-0.033
11:40:07 AM	0		11:40:45 AM	0.034	-0.034
11:41:07 AM	0		11:41:45 AM	0.042	-0.042
11:42:07 AM	0		11:42:45 AM	0.044	-0.044
11:43:07 AM	0		11:43:45 AM	0.036	-0.036
11:44:07 AM	0		11:44:45 AM	0.029	-0.029
11:45:07 AM	0		11:45:45 AM	0.029	-0.029
11:46:07 AM	0		11:46:45 AM	0.031	-0.031
11:47:07 AM	0		11:47:45 AM	0.03	-0.03
11:48:07 AM	0		11:48:45 AM	0.032	-0.032
11:49:07 AM	0		11:49:45 AM	0.035	-0.035
11:50:07 AM	0		11:50:45 AM	0.037	-0.037
11:51:07 AM	0		11:51:45 AM	0.035	-0.035
11:52:07 AM	0		11:52:45 AM	0.039	-0.039
11:53:07 AM	0		11:53:45 AM	0.03	-0.03
11:54:07 AM	0		11:54:45 AM	0.036	-0.036
11:55:07 AM	0		11:55:45 AM	0.038	-0.038
11:56:07 AM	0		11:56:45 AM	0.032	-0.032
11:57:07 AM	0		11:57:45 AM	0.039	-0.039
11:58:07 AM	0		11:58:45 AM	0.04	-0.04
11:59:07 AM	0		11:59:45 AM	0.032	-0.032
12:00:07 PM	0.006		12:00:45 PM	0.035	-0.029
12:01:07 PM	0		12:01:45 PM	0.042	-0.042
12:02:07 PM	0		12:02:45 PM	0.033	-0.033
12:03:07 PM	0		12:03:45 PM	0.038	-0.038
12:04:07 PM	0		12:04:45 PM	0.029	-0.029
12:05:07 PM	0.001		12:05:45 PM	0.032	-0.031
12:06:07 PM	0		12:06:45 PM	0.034	-0.034
12:07:07 PM	0		12:07:45 PM	0.069	-0.069
12:08:07 PM	0		12:08:45 PM	0.038	-0.038
12:09:07 PM	0		12:09:45 PM	0.028	-0.028
12:10:07 PM	0		12:10:45 PM	0.075	-0.075
12:11:07 PM	0		12:11:45 PM	0.034	-0.034
12:12:07 PM	0		12:12:45 PM	0.062	-0.062
12:13:07 PM	0		12:13:45 PM	0.047	-0.047
12:14:07 PM	0		12:14:45 PM	0.054	-0.054
12:15:07 PM	0.001		12:15:45 PM	0.057	-0.056
12:16:07 PM	0		12:16:45 PM	0.07	-0.07
12:17:07 PM	0		12:17:45 PM	0.069	-0.069
12:18:07 PM	0		12:18:45 PM	0.036	-0.036
12:19:07 PM	0		12:19:45 PM	0.033	-0.033
12:20:07 PM	0		12:20:45 PM	0.034	-0.034
12:21:07 PM	0		12:21:45 PM	0.046	-0.046
12:22:07 PM	0		12:22:45 PM	0.04	-0.04
12:23:07 PM	0		12:23:45 PM	0.032	-0.032
12:24:07 PM	0		12:24:45 PM	0.032	-0.032
12:25:07 PM	0		12:25:45 PM	0.036	-0.036
12:26:07 PM	0		12:26:45 PM	0.037	-0.037
12:27:07 PM	0		12:27:45 PM	0.036	-0.036
12:28:07 PM	0		12:28:45 PM	0.029	-0.029
12:29:07 PM	0		12:29:45 PM	0.029	-0.029
12:30:07 PM	0		12:30:45 PM	0.033	-0.033
12:31:07 PM	0		12:31:45 PM	0.034	-0.034
12:32:07 PM	0		12:32:45 PM	0.037	-0.037
12:33:07 PM	0		12:33:45 PM	0.029	-0.029
12:34:07 PM	0		12:34:45 PM	0.029	-0.029
12:35:07 PM	0		12:35:45 PM	0.031	-0.031
12:36:07 PM	0.001		12:36:45 PM	0.029	-0.028
12:37:07 PM	0		12:37:45 PM	0.025	-0.025
12:38:07 PM	0		12:38:45 PM	0.023	-0.023
12:39:07 PM	0		12:39:45 PM	0.03	-0.03
12:40:07 PM	0		12:40:45 PM	0.037	-0.037
12:41:07 PM	0		12:41:45 PM	0.025	-0.025
12:42:07 PM	0		12:42:45 PM	0.027	-0.027
12:43:07 PM	0		12:43:45 PM	0.028	-0.028
12:44:07 PM	0		12:44:45 PM	0.019	-0.019
12:45:07 PM	0		12:45:45 PM	0.022	-0.022

12:46:07 PM	0		12:46:45 PM	0.024	-0.024
12:47:07 PM	0		12:47:45 PM	0.083	-0.083
12:48:07 PM	0		12:48:45 PM	0.028	-0.028
12:49:07 PM	0		12:49:45 PM	0.029	-0.029
12:50:07 PM	0		12:50:45 PM	0.031	-0.031
12:51:07 PM	0		12:51:45 PM	0.028	-0.028
12:52:07 PM	0		12:52:45 PM	0.026	-0.026
12:53:07 PM	0		12:53:45 PM	0.034	-0.034
12:54:07 PM	0		12:54:45 PM	0.035	-0.035
12:55:07 PM	0		12:55:45 PM	0.052	-0.052
12:56:07 PM	0		12:56:45 PM	0.051	-0.051
12:57:07 PM	0		12:57:45 PM	0.044	-0.044
12:58:07 PM	0		12:58:45 PM	0.054	-0.054
12:59:07 PM	0		12:59:45 PM	0.081	-0.081
1:00:07 PM	0		1:00:45 PM	0.1	-0.1
1:01:07 PM	0		1:01:45 PM	0.034	-0.034
1:02:07 PM	0		1:02:45 PM	0.036	-0.036
1:03:07 PM	0		1:03:45 PM	0.049	-0.049
1:04:07 PM	0		1:04:45 PM	0.085	-0.085
1:05:07 PM	0		1:05:45 PM	0.079	-0.079
1:06:07 PM	0		1:06:45 PM	0.046	-0.046
1:07:07 PM	0.001		1:07:45 PM	0.038	-0.037
1:08:07 PM	0		1:08:45 PM	0.043	-0.043
1:09:07 PM	0		1:09:45 PM	0.056	-0.056
1:10:07 PM	0		1:10:45 PM	0.052	-0.052
1:11:07 PM	0		1:11:45 PM	0.031	-0.031
1:12:07 PM	0		1:12:45 PM	0.027	-0.027
1:13:07 PM	0		1:13:45 PM	0.028	-0.028
1:14:07 PM	0		1:14:45 PM	0.027	-0.027
1:15:07 PM	0		1:15:45 PM	0.025	-0.025
1:16:07 PM	0		1:16:45 PM	0.025	-0.025
1:17:07 PM	0		1:17:45 PM	0.058	-0.058
1:18:07 PM	0		1:18:45 PM	0.11	-0.11
1:19:07 PM	0		1:19:45 PM	0.029	-0.029
1:20:07 PM	0		1:20:45 PM	0.025	-0.025
1:21:07 PM	0		1:21:45 PM	0.023	-0.023
1:22:07 PM	0		1:22:45 PM	0.026	-0.026
1:23:07 PM	0		1:23:45 PM	0.027	-0.027
1:24:07 PM	0		1:24:45 PM	0.027	-0.027
1:25:07 PM	0		1:25:45 PM	0.034	-0.034
1:26:07 PM	0		1:26:45 PM	0.026	-0.026
1:27:07 PM	0		1:27:45 PM	0.026	-0.026
1:28:07 PM	0		1:28:45 PM	0.026	-0.026
1:29:07 PM	0		1:29:45 PM	0.022	-0.022
1:30:07 PM	0		1:30:45 PM	0.031	-0.031
1:31:07 PM	0		1:31:45 PM	0.025	-0.025
1:32:07 PM	0		1:32:45 PM	0.025	-0.025
1:33:07 PM	0		1:33:45 PM	0.03	-0.03
1:34:07 PM	0		1:34:45 PM	0.029	-0.029
1:35:07 PM	0		1:35:45 PM	0.027	-0.027
1:36:07 PM	0		1:36:45 PM	0.022	-0.022
1:37:07 PM	0		1:37:45 PM	0.022	-0.022
1:38:07 PM	0		1:38:45 PM	0.02	-0.02
1:39:07 PM	0		1:39:45 PM	0.032	-0.032
1:40:07 PM	0		1:40:45 PM	0.03	-0.03
1:41:07 PM	0		1:41:45 PM	0.027	-0.027
1:42:07 PM	0		1:42:45 PM	0.028	-0.028
1:43:07 PM	0		1:43:45 PM	0.025	-0.025
1:44:07 PM	0		1:44:45 PM	0.032	-0.032
1:45:07 PM	0		1:45:45 PM	0.025	-0.025
1:46:07 PM	0		1:46:45 PM	0.017	-0.017
1:47:07 PM	0		1:47:45 PM	0.021	-0.021
1:48:07 PM	0		1:48:45 PM	0.021	-0.021
1:49:07 PM	0		1:49:45 PM	0.024	-0.024
1:50:07 PM	0		1:50:45 PM	0.03	-0.03
1:51:07 PM	0		1:51:45 PM	0.025	-0.025
1:52:07 PM	0		1:52:45 PM	0.02	-0.02
1:53:07 PM	0		1:53:45 PM	0.022	-0.022
1:54:07 PM	0		1:54:45 PM	0.024	-0.024
1:55:07 PM	0		1:55:45 PM	0.026	-0.026
1:56:07 PM	0		1:56:45 PM	0.027	-0.027
1:57:07 PM	0		1:57:45 PM	0.034	-0.034

1:58:07 PM	0		1:58:45 PM	0.023	-0.023
1:59:07 PM	0		1:59:45 PM	0.023	-0.023
2:00:07 PM	0		2:00:45 PM	0.023	-0.023
2:01:07 PM	0		2:01:45 PM	0.022	-0.022
2:02:07 PM	0.002		2:02:45 PM	0.018	-0.016
2:03:07 PM	0		2:03:45 PM	0.019	-0.019
2:04:07 PM	0		2:04:45 PM	0.018	-0.018
2:05:07 PM	0		2:05:45 PM	0.026	-0.026
2:06:07 PM	0		2:06:45 PM	0.021	-0.021
2:07:07 PM	0		2:07:45 PM	0.038	-0.038
2:08:07 PM	0		2:08:45 PM	0.023	-0.023
2:09:07 PM	0		2:09:45 PM	0.025	-0.025
2:10:07 PM	0		2:10:45 PM	0.024	-0.024
2:11:07 PM	0.033		2:11:45 PM	0.027	0.006
2:12:07 PM	0.019		2:12:45 PM	0.028	-0.009
2:13:07 PM	0		2:13:45 PM	0.029	-0.029
2:14:07 PM	0		2:14:45 PM	0.03	-0.03
2:15:07 PM	0		2:15:45 PM	0.033	-0.033
2:16:07 PM	0		2:16:45 PM	0.032	-0.032
2:17:07 PM	0		2:17:45 PM	0.033	-0.033
2:18:07 PM	0		2:18:45 PM	0.032	-0.032
2:19:07 PM	0		2:19:45 PM	0.033	-0.033
2:20:07 PM	0		2:20:45 PM	0.026	-0.026
2:21:07 PM	0		2:21:45 PM	0.025	-0.025
2:22:07 PM	0		2:22:45 PM	0.023	-0.023
2:23:07 PM	0		2:23:45 PM	0.028	-0.028
2:24:07 PM	0		2:24:45 PM	0.037	-0.037
2:25:07 PM	0		2:25:45 PM	0.05	-0.05
2:26:07 PM	0		2:26:45 PM	0.035	-0.035
2:27:07 PM	0		2:27:45 PM	0.046	-0.046
2:28:07 PM	0		2:28:45 PM	0.042	-0.042
2:29:07 PM	0		2:29:45 PM	0.028	-0.028
2:30:07 PM	0		2:30:45 PM	0.049	-0.049
2:31:07 PM	0		2:31:45 PM	0.052	-0.052
2:32:07 PM	0		2:32:45 PM	0.093	-0.093
2:33:07 PM	0		2:33:45 PM	0.043	-0.043
2:34:07 PM	0		2:34:45 PM	0.029	-0.029
2:35:07 PM	0		2:35:45 PM	0.031	-0.031
2:36:07 PM	0		2:36:45 PM	0.033	-0.033
2:37:07 PM	0		2:37:45 PM	0.041	-0.041
2:38:07 PM	0		2:38:45 PM	0.024	-0.024
2:39:07 PM	0		2:39:45 PM	0.043	-0.043
2:40:07 PM	0		2:40:45 PM	0.033	-0.033
2:41:07 PM	0		2:41:45 PM	0.032	-0.032
2:42:07 PM	0		2:42:45 PM	0.036	-0.036
2:43:07 PM	0		2:43:45 PM	0.028	-0.028
2:44:07 PM	0		2:44:45 PM	0.027	-0.027
2:45:07 PM	0.004		2:45:45 PM	0.032	-0.028
2:46:07 PM	0		2:46:45 PM	0.026	-0.026
2:47:07 PM	0		2:47:45 PM	0.03	-0.03
2:48:07 PM	0		2:48:45 PM	0.027	-0.027
2:49:07 PM	0		2:49:45 PM	0.033	-0.033
2:50:07 PM	0		2:50:45 PM	0.032	-0.032
2:51:07 PM	0		2:51:45 PM	0.037	-0.037
2:52:07 PM	0		2:52:45 PM	0.024	-0.024
2:53:07 PM	0		2:53:45 PM	0.032	-0.032
2:54:07 PM	0		2:54:45 PM	0.037	-0.037
2:55:07 PM	0		2:55:45 PM	0.026	-0.026
2:56:07 PM	0		2:56:45 PM	0.035	-0.035
2:57:07 PM	0		2:57:45 PM	0.055	-0.055
2:58:07 PM	0		2:58:45 PM	0.029	-0.029
2:59:07 PM	0		2:59:45 PM	0.021	-0.021
3:00:07 PM	0		3:00:45 PM	0.019	-0.019
3:01:07 PM	0		3:01:45 PM	0.028	-0.028
3:02:07 PM	0		3:02:45 PM	0.035	-0.035
3:03:07 PM	0		3:03:45 PM	0.033	-0.033
3:04:07 PM	0		3:04:45 PM	0.028	-0.028
3:05:07 PM	0		3:05:45 PM	0.023	-0.023
3:06:07 PM	0		3:06:45 PM	0.029	-0.029
3:07:07 PM	0		3:07:45 PM	0.032	-0.032
3:08:07 PM	0		3:08:45 PM	0.025	-0.025
3:09:07 PM	0		3:09:45 PM	0.03	-0.03

3:10:07 PM	0		3:10:45 PM	0.04	-0.04
3:11:07 PM	0		3:11:45 PM	0.026	-0.026
3:12:07 PM	0		3:12:45 PM	0.039	-0.039
3:13:07 PM	0		3:13:45 PM	0.05	-0.05
3:14:07 PM	0		3:14:45 PM	0.029	-0.029
3:15:07 PM	0		3:15:45 PM	0.024	-0.024
3:16:07 PM	0		3:16:45 PM	0.026	-0.026
3:17:07 PM	0		3:17:45 PM	0.029	-0.029
3:18:07 PM	0		3:18:45 PM	0.025	-0.025
3:19:07 PM	0.003		3:19:45 PM	0.029	-0.026
3:20:07 PM	0		3:20:45 PM	0.027	-0.027
3:21:07 PM	0		3:21:45 PM	0.023	-0.023
3:22:07 PM	0		3:22:45 PM	0.029	-0.029
3:23:07 PM	0		3:23:45 PM	0.032	-0.032
3:24:07 PM	0		3:24:45 PM	0.04	-0.04
3:25:07 PM	0		3:25:45 PM	0.047	-0.047
3:26:07 PM	0		3:26:45 PM	0.031	-0.031
3:27:07 PM	0		3:27:45 PM	0.036	-0.036
3:28:07 PM	0		3:28:45 PM	0.044	-0.044
3:29:07 PM	0		3:29:45 PM	0.059	-0.059
3:30:07 PM	0		3:30:45 PM	0.058	-0.058
3:31:07 PM	0		3:31:45 PM	0.063	-0.063
3:32:07 PM	0		3:32:45 PM	0.043	-0.043
3:33:07 PM	0		3:33:45 PM	0.053	-0.053
3:34:07 PM	0		3:34:45 PM	0.062	-0.062
3:35:07 PM	0		3:35:45 PM	0.059	-0.059
3:36:07 PM	0		3:36:45 PM	0.064	-0.064
3:37:07 PM	0		3:37:45 PM	0.057	-0.057
3:38:07 PM	0.001		3:38:45 PM	0.067	-0.066
3:39:07 PM	0		3:39:45 PM	0.06	-0.06
3:40:07 PM	0		3:40:45 PM	0.041	-0.041
3:41:07 PM	0		3:41:45 PM	0.044	-0.044
3:42:07 PM	0		3:42:45 PM	0.048	-0.048
3:43:07 PM	0		3:43:45 PM	0.065	-0.065
3:44:07 PM	0		3:44:45 PM	0.054	-0.054
3:45:07 PM	0.005		3:45:45 PM	0.05	-0.045
3:46:07 PM	0		3:46:45 PM	0.118	-0.118
3:47:07 PM	0		3:47:45 PM	0.093	-0.093
3:48:07 PM	0		3:48:45 PM	0.04	-0.04
3:49:07 PM	0		3:49:45 PM	0.042	-0.042
3:50:07 PM	0		3:50:45 PM	0.044	-0.044
3:51:07 PM	0		3:51:45 PM	0.041	-0.041
3:52:07 PM	0		3:52:45 PM	0.055	-0.055
3:53:07 PM	0		3:53:45 PM	0.04	-0.04
3:54:07 PM	0.001		3:54:45 PM	0.026	-0.025
3:55:07 PM	0		3:55:45 PM	0.023	-0.023
3:56:07 PM	0		3:56:45 PM	0.032	-0.032
3:57:07 PM	0		3:57:45 PM	0.04	-0.04
3:58:07 PM	0		3:58:45 PM	0.039	-0.039
3:59:07 PM	0		3:59:45 PM	0.099	-0.099
4:00:07 PM	0		4:00:45 PM	0.046	-0.046
4:01:07 PM	0		4:01:45 PM	0.029	-0.029
4:02:07 PM	0		4:02:45 PM	0.024	-0.024
4:03:07 PM	0		4:03:45 PM	0.04	-0.04
4:04:07 PM	0		4:04:45 PM	0.089	-0.089
4:05:07 PM	0		4:05:45 PM	0.047	-0.047
4:06:07 PM	0.026		4:06:45 PM	0.065	-0.039
4:07:07 PM	0		4:07:45 PM	0.048	-0.048
4:08:07 PM	0		4:08:45 PM	0.055	-0.055
4:09:07 PM	0.002		4:09:45 PM	0.028	-0.026
4:10:07 PM	0		4:10:45 PM	0.088	-0.088
4:11:07 PM	0.007		4:11:45 PM	0.032	-0.025
4:12:07 PM	0		4:12:45 PM	0.045	-0.045
4:13:07 PM	0		4:13:45 PM	0.033	-0.033
4:14:07 PM	0		4:14:45 PM	0.038	-0.038
4:15:07 PM	0		4:15:45 PM	0.045	-0.045
4:16:07 PM	0		4:16:45 PM	0.033	-0.033
4:17:07 PM	0.001		4:17:45 PM	0.029	-0.028
4:18:07 PM	0.002		4:18:45 PM	0.043	-0.041
4:19:07 PM	0		4:19:45 PM	0.077	-0.077
4:20:07 PM	0		4:20:45 PM	0.086	-0.086
4:21:07 PM	0		4:21:45 PM	0.081	-0.081

4:22:07 PM	0.041		4:22:45 PM	0.028	0.013
4:23:07 PM	0.047		4:23:45 PM	0.029	0.018
4:24:07 PM	0		4:24:45 PM	0.036	-0.036
4:25:07 PM	0		4:25:45 PM	0.104	-0.104
4:26:07 PM	0		4:26:45 PM	0.036	-0.036
4:27:07 PM	0		4:27:45 PM	0.034	-0.034
4:28:07 PM	0		4:28:45 PM	0.034	-0.034
4:29:07 PM	0		4:29:45 PM	0.035	-0.035
4:30:07 PM	0		4:30:45 PM	0.052	-0.052
4:31:07 PM	0		4:31:45 PM	0.032	-0.032
4:32:07 PM	0		4:32:45 PM	0.04	-0.04
4:33:07 PM	0		4:33:45 PM	0.044	-0.044
4:34:07 PM	0		4:34:45 PM	0.059	-0.059
4:35:07 PM	0		4:35:45 PM	0.061	-0.061
4:36:07 PM	0		4:36:45 PM	0.058	-0.058
4:37:07 PM	0		4:37:45 PM	0.06	-0.06
4:38:07 PM	0		4:38:45 PM	0.076	-0.076
4:39:07 PM	0		4:39:45 PM	0.077	-0.077
4:40:07 PM	0		4:40:45 PM	0.068	-0.068
4:41:07 PM	0		4:41:45 PM	0.074	-0.074
4:42:07 PM	0		4:42:45 PM	0.059	-0.059
4:43:07 PM	0		4:43:45 PM	0.064	-0.064
4:44:07 PM	0		4:44:45 PM	0.066	-0.066
4:45:07 PM	0		4:45:45 PM	0.146	-0.146
4:46:07 PM	0		4:46:45 PM	0.083	-0.083
4:47:07 PM	0		4:47:45 PM	0.07	-0.07
4:48:07 PM	0		4:48:45 PM	0.083	-0.083
4:49:07 PM	0		4:49:45 PM	0.086	-0.086
4:50:07 PM	0		4:50:45 PM	0.081	-0.081
4:51:07 PM	0		4:51:45 PM	0.066	-0.066
4:52:07 PM	0		4:52:45 PM	0.067	-0.067
4:53:07 PM	0.005		4:53:45 PM	0.045	-0.04
4:54:07 PM	0.001		4:54:45 PM	0.059	-0.058
4:55:07 PM	0		4:55:45 PM	0.059	-0.059
4:56:07 PM	0.001		4:56:45 PM	0.04	-0.039
4:57:07 PM	0		4:57:45 PM	0.065	-0.065
4:58:07 PM	0		4:58:45 PM	0.041	-0.041
4:59:07 PM	0		4:59:45 PM	0.041	-0.041
5:00:07 PM	0		5:00:45 PM	0.05	-0.05
5:01:07 PM	0		5:01:45 PM	0.058	-0.058
5:02:07 PM	0.003		5:02:45 PM	0.082	-0.079
5:03:07 PM	0		5:03:45 PM	0.041	-0.041
5:04:07 PM	0		5:04:45 PM	0.031	-0.031
5:05:07 PM	0		5:05:45 PM	0.049	-0.049
5:06:07 PM	0		5:06:45 PM	0.066	-0.066
5:07:07 PM	0		5:07:45 PM	0.039	-0.039
5:08:07 PM	0				0
5:09:07 PM	0				0
5:10:07 PM	0				0
5:11:07 PM	0				0
5:12:07 PM	0				0
5:13:07 PM	0				0

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_006
Test Start Time	8:02:58 AM
Test Start Date	3/20/2013
Test Length [D:H:M]	0:03:59
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.011
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.225
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	1
Errors	Flow Error
Number of Samples	217

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
8:02:58 AM	0.098		
8:03:58 AM	0.001		
8:04:58 AM	0		
8:05:58 AM	0		
8:06:58 AM	0		
8:07:58 AM	0.06		
8:08:58 AM	0.001		
8:09:58 AM	0		
8:10:58 AM	0		
8:11:58 AM	0.192		
8:12:58 AM	0.015		
8:13:58 AM	0		
8:14:58 AM	0.015		
8:15:58 AM	0		
8:16:58 AM	0.005		
8:17:58 AM	0		
8:18:58 AM	0.002		
8:19:58 AM	0.094		
8:20:58 AM	0.2		
8:21:58 AM	0		
8:22:58 AM	0		
8:23:58 AM	0		
8:24:58 AM	0		
8:25:58 AM	0		
8:26:58 AM	0		
8:27:58 AM	0		
8:28:58 AM	0		
8:29:58 AM	0.093		
8:30:58 AM	0.222		
8:31:58 AM	0		
8:32:58 AM	0		
8:33:58 AM	0.011		
8:34:58 AM	0		
8:35:58 AM	0.01		
8:36:58 AM	0.004		
8:37:58 AM	0		
8:38:58 AM	0		
8:39:58 AM	0		
8:40:58 AM	0		
8:41:58 AM	0		
8:42:58 AM	0.005		
8:43:58 AM	0.013		
8:44:58 AM	0.026		
8:45:58 AM	0		
8:46:58 AM	0.054		
8:47:58 AM	0		
8:48:58 AM	0		
8:49:58 AM	0		
8:50:58 AM	0		
8:51:58 AM	0.003		
8:52:58 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_006
Test Start Time	8:02:32 AM
Test Start Date	3/20/2013
Test Length [D:H:M]	0:03:49
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.088
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.286
Mass TWA [mg/m3]	0.042
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	221

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
8:02:32 AM	0.257			-0.159
8:03:32 AM	0.059			-0.058
8:04:32 AM	0.068			-0.068
8:05:32 AM	0.059			-0.059
8:06:32 AM	0.061			-0.061
8:07:32 AM	0.112			-0.052
8:08:32 AM	0.129			-0.128
8:09:32 AM	0.082			-0.082
8:10:32 AM	0.19			-0.19
8:11:32 AM	0.071			0.121
8:12:32 AM	0.083			-0.068
8:13:32 AM	0.074			-0.074
8:14:32 AM	0.074			-0.059
8:15:32 AM	0.102			-0.102
8:16:32 AM	0.086			-0.081
8:17:32 AM	0.06			-0.06
8:18:32 AM	0.042			-0.04
8:19:32 AM	0.042			0.052
8:20:32 AM	0.106			0.094
8:21:32 AM	0.073			-0.073
8:22:32 AM	0.064			-0.064
8:23:32 AM	0.064			-0.064
8:24:32 AM	0.083			-0.083
8:25:32 AM	0.115			-0.115
8:26:32 AM	0.132			-0.132
8:27:32 AM	0.125			-0.125
8:28:32 AM	0.105			-0.105
8:29:32 AM	0.074			0.019
8:30:32 AM	0.1			0.122
8:31:32 AM	0.066			-0.066
8:32:32 AM	0.065			-0.065
8:33:32 AM	0.061			-0.05
8:34:32 AM	0.067			-0.067
8:35:32 AM	0.078			-0.068
8:36:32 AM	0.142			-0.138
8:37:32 AM	0.079			-0.079
8:38:32 AM	0.136			-0.136
8:39:32 AM	0.064			-0.064
8:40:32 AM	0.108			-0.108
8:41:32 AM	0.198			-0.198
8:42:32 AM	0.09			-0.085
8:43:32 AM	0.061			-0.048
8:44:32 AM	0.058			-0.032
8:45:32 AM	0.067			-0.067
8:46:32 AM	0.064			-0.01
8:47:32 AM	0.082			-0.082
8:48:32 AM	0.053			-0.053
8:49:32 AM	0.05			-0.05
8:50:32 AM	0.043			-0.043
8:51:32 AM	0.112			-0.109
8:52:32 AM	0.286			-0.286

8:53:58 AM	0		8:53:32 AM	0.093	-0.093
8:54:58 AM	0		8:54:32 AM	0.089	-0.089
8:55:58 AM	0		8:55:32 AM	0.104	-0.104
8:56:58 AM	0		8:56:32 AM	0.098	-0.098
8:57:58 AM	0.008		8:57:32 AM	0.068	-0.06
8:58:58 AM	0.05		8:58:32 AM	0.073	-0.023
8:59:58 AM	0.044		8:59:32 AM	0.055	-0.011
9:00:58 AM	0.012		9:00:32 AM	0.051	-0.039
9:01:58 AM	0.026		9:01:32 AM	0.067	-0.041
9:02:58 AM	0		9:02:32 AM	0.063	-0.063
9:03:58 AM	0		9:03:32 AM	0.064	-0.064
9:04:58 AM	0		9:04:32 AM	0.063	-0.063
9:05:58 AM	0		9:05:32 AM	0.096	-0.096
9:06:58 AM	0		9:06:32 AM	0.137	-0.137
9:07:58 AM	0.03		9:07:32 AM	0.075	-0.045
9:08:58 AM	0.099		9:08:32 AM	0.06	0.039
9:09:58 AM	0		9:09:32 AM	0.091	-0.091
9:10:58 AM	0.013		9:10:32 AM	0.089	-0.076
9:11:58 AM	0.038		9:11:32 AM	0.086	-0.048
9:12:58 AM	0		9:12:32 AM	0.068	-0.068
9:13:58 AM	0		9:13:32 AM	0.065	-0.065
9:14:58 AM	0		9:14:32 AM	0.068	-0.068
9:15:58 AM	0		9:15:32 AM	0.055	-0.055
9:16:58 AM	0		9:16:32 AM	0.058	-0.058
9:17:58 AM	0		9:17:32 AM	0.074	-0.074
9:18:58 AM	0.002		9:18:32 AM	0.073	-0.071
9:19:58 AM	0		9:19:32 AM	0.19	-0.19
9:20:58 AM	0		9:20:32 AM	0.126	-0.126
9:21:58 AM	0		9:21:32 AM	0.111	-0.111
9:22:58 AM	0		9:22:32 AM	0.162	-0.162
9:23:58 AM	0		9:23:32 AM	0.21	-0.21
9:24:58 AM	0		9:24:32 AM	0.122	-0.122
9:25:58 AM	0.002		9:25:32 AM	0.079	-0.077
9:26:58 AM	0		9:26:32 AM	0.093	-0.093
9:27:58 AM	0		9:27:32 AM	0.082	-0.082
9:28:58 AM	0		9:28:32 AM	0.174	-0.174
9:29:58 AM	0		9:29:32 AM	0.157	-0.157
9:30:58 AM	0		9:30:32 AM	0.148	-0.148
9:31:58 AM	0		9:31:32 AM	0.108	-0.108
9:32:58 AM	0.006		9:32:32 AM	0.121	-0.115
9:33:58 AM	0		9:33:32 AM	0.08	-0.08
9:34:58 AM	0		9:34:32 AM	0.121	-0.121
9:35:58 AM	0		9:35:32 AM	0.115	-0.115
9:36:58 AM	0		9:36:32 AM	0.073	-0.073
9:37:58 AM	0		9:37:32 AM	0.092	-0.092
9:38:58 AM	0.225		9:38:32 AM	0.082	0.143
9:39:58 AM	0.004		9:39:32 AM	0.076	-0.072
9:40:58 AM	0		9:40:32 AM	0.073	-0.073
9:41:58 AM	0		9:41:32 AM	0.068	-0.068
9:42:58 AM	0.06		9:42:32 AM	0.058	0.002
9:43:58 AM	0.001		9:43:32 AM	0.08	-0.079
9:44:58 AM	0.006		9:44:32 AM	0.078	-0.072
9:45:58 AM	0.001		9:45:32 AM	0.082	-0.081
9:46:58 AM	0		9:46:32 AM	0.101	-0.101
9:47:58 AM	0		9:47:32 AM	0.098	-0.098
9:48:58 AM	0		9:48:32 AM	0.093	-0.093
9:49:58 AM	0		9:49:32 AM	0.088	-0.088
9:50:58 AM	0		9:50:32 AM	0.082	-0.082
9:51:58 AM	0		9:51:32 AM	0.135	-0.135
9:52:58 AM	0		9:52:32 AM	0.132	-0.132
9:53:58 AM	0.012		9:53:32 AM	0.088	-0.076
9:54:58 AM	0.016		9:54:32 AM	0.09	-0.074
9:55:58 AM	0		9:55:32 AM	0.143	-0.143
9:56:58 AM	0		9:56:32 AM	0.105	-0.105
9:57:58 AM	0.003		9:57:32 AM	0.075	-0.072
9:58:58 AM	0		9:58:32 AM	0.103	-0.103
9:59:58 AM	0		9:59:32 AM	0.098	-0.098
10:00:58 AM	0		10:00:32 AM	0.106	-0.106
10:01:58 AM	0		10:01:32 AM	0.109	-0.109
10:02:58 AM	0		10:02:32 AM	0.09	-0.09
10:03:58 AM	0		10:03:32 AM	0.102	-0.102
10:04:58 AM	0.017		10:04:32 AM	0.072	-0.055

10:05:58 AM	0.01		10:05:32 AM	0.093	-0.083
10:06:58 AM	0.015		10:06:32 AM	0.09	-0.075
10:07:58 AM	0.003		10:07:32 AM	0.066	-0.063
10:08:58 AM	0		10:08:32 AM	0.087	-0.087
10:09:58 AM	0		10:09:32 AM	0.061	-0.061
10:10:58 AM	0		10:10:32 AM	0.062	-0.062
10:11:58 AM	0		10:11:32 AM	0.049	-0.049
10:12:58 AM	0.003		10:12:32 AM	0.042	-0.039
10:13:58 AM	0.055		10:13:32 AM	0.06	-0.005
10:14:58 AM	0.005		10:14:32 AM	0.054	-0.049
10:15:58 AM	0.004		10:15:32 AM	0.06	-0.056
10:16:58 AM	0		10:16:32 AM	0.082	-0.082
10:17:58 AM	0.001		10:17:32 AM	0.107	-0.106
10:18:58 AM	0.002		10:18:32 AM	0.076	-0.074
10:19:58 AM	0.001		10:19:32 AM	0.066	-0.065
10:20:58 AM	0.001		10:20:32 AM	0.062	-0.061
10:21:58 AM	0.02		10:21:32 AM	0.081	-0.061
10:22:58 AM	0.032		10:22:32 AM	0.062	-0.03
10:23:58 AM	0.008		10:23:32 AM	0.081	-0.073
10:24:58 AM	0.033		10:24:32 AM	0.094	-0.061
10:25:58 AM	0.009		10:25:32 AM	0.086	-0.077
10:26:58 AM	0.053		10:26:32 AM	0.129	-0.076
10:27:58 AM	0.001		10:27:32 AM	0.1	-0.099
10:28:58 AM	0.002		10:28:32 AM	0.085	-0.083
10:29:58 AM	0		10:29:32 AM	0.08	-0.08
10:30:58 AM	0		10:30:32 AM	0.088	-0.088
10:31:58 AM	0.013		10:31:32 AM	0.099	-0.086
10:32:58 AM	0		10:32:32 AM	0.121	-0.121
10:33:58 AM	0		10:33:32 AM	0.16	-0.16
10:34:58 AM	0		10:34:32 AM	0.11	-0.11
10:35:58 AM	0		10:35:32 AM	0.199	-0.199
10:36:58 AM	0		10:36:32 AM	0.113	-0.113
10:37:58 AM	0.011		10:37:32 AM	0.154	-0.143
10:38:58 AM	0.041		10:38:32 AM	0.067	-0.026
10:39:58 AM	0.01		10:39:32 AM	0.091	-0.081
10:40:58 AM	0		10:40:32 AM	0.098	-0.098
10:41:58 AM	0		10:41:32 AM	0.185	-0.185
10:42:58 AM	0		10:42:32 AM	0.212	-0.212
10:43:58 AM	0		10:43:32 AM	0.103	-0.103
10:44:58 AM	0		10:44:32 AM	0.093	-0.093
10:45:58 AM	0.009		10:45:32 AM	0.118	-0.109
10:46:58 AM	0		10:46:32 AM	0.131	-0.131
10:47:58 AM	0		10:47:32 AM	0.096	-0.096
10:48:58 AM	0		10:48:32 AM	0.103	-0.103
10:49:58 AM	0		10:49:32 AM	0.16	-0.16
10:50:58 AM	0		10:50:32 AM	0.088	-0.088
10:51:58 AM	0		10:51:32 AM	0.233	-0.233
10:52:58 AM	0		10:52:32 AM	0.117	-0.117
10:53:58 AM	0.005		10:53:32 AM	0.098	-0.093
10:54:58 AM	0		10:54:32 AM	0.074	-0.074
10:55:58 AM	0		10:55:32 AM	0.064	-0.064
10:56:58 AM	0		10:56:32 AM	0.109	-0.109
10:57:58 AM	0		10:57:32 AM	0.191	-0.191
10:58:58 AM	0		10:58:32 AM	0.132	-0.132
10:59:58 AM	0.004		10:59:32 AM	0.12	-0.116
11:00:58 AM	0.001		11:00:32 AM	0.067	-0.066
11:01:58 AM	0		11:01:32 AM	0.056	-0.056
11:02:58 AM	0		11:02:32 AM	0.175	-0.175
11:03:58 AM	0.013		11:03:32 AM	0.133	-0.12
11:04:58 AM	0		11:04:32 AM	0.089	-0.089
11:05:58 AM	0.003		11:05:32 AM	0.071	-0.068
11:06:58 AM	0.05		11:06:32 AM	0.065	-0.015
11:07:58 AM	0.001		11:07:32 AM	0.076	-0.075
11:08:58 AM	0		11:08:32 AM	0.066	-0.066
11:09:58 AM	0		11:09:32 AM	0.061	-0.061
11:10:58 AM	0.002		11:10:32 AM	0.053	-0.051
11:11:58 AM	0		11:11:32 AM	0.069	-0.069
11:12:58 AM	0		11:12:32 AM	0.061	-0.061
11:13:58 AM	0		11:13:32 AM	0.057	-0.057
11:14:58 AM	0.053		11:14:32 AM	0.06	-0.007
11:15:58 AM	0.001		11:15:32 AM	0.099	-0.098
11:16:58 AM	0.001		11:16:32 AM	0.1	-0.099

11:17:58 AM	0.002			11:17:32 AM	0.08		-0.078
11:18:58 AM	0			11:18:32 AM	0.109		-0.109
11:19:58 AM	0.001			11:19:32 AM	0.132		-0.131
11:20:58 AM	0.001			11:20:32 AM	0.082		-0.081
11:21:58 AM	0			11:21:32 AM	0.12		-0.12
11:22:58 AM	0			11:22:32 AM	0.092		-0.092
11:23:58 AM	0			11:23:32 AM	0.028	Flow Error	-0.028
11:24:58 AM	0.003			11:24:32 AM	0.021	Flow Error	-0.018
11:25:58 AM	0			11:25:32 AM	0.025	Flow Error	-0.025
11:26:58 AM	0			11:26:32 AM	0.015	Flow Error	-0.015
11:27:58 AM	0	Flow Error		11:27:32 AM	0.025	Flow Error	-0.025
11:28:58 AM	0	Flow Error		11:28:32 AM	0.025	Flow Error	-0.025
11:29:58 AM	0.005	Flow Error		11:29:32 AM	0		0.005
11:30:58 AM	0.001	Flow Error		11:30:32 AM	0.023	Flow Error	-0.022
11:31:58 AM	0.001	Flow Error		11:31:32 AM	0.008	Flow Error	-0.007
11:32:58 AM	0	Flow Error		11:32:32 AM	0.012	Flow Error	-0.012
11:33:58 AM	0.007	Flow Error		11:33:32 AM	0.008	Flow Error	-0.001
11:34:58 AM	0	Flow Error		11:34:32 AM	0.005	Flow Error	-0.005
11:35:58 AM	0	Flow Error		11:35:32 AM	0.006	Flow Error	-0.006
11:36:58 AM	0	Flow Error		11:36:32 AM	0.007	Flow Error	-0.007
11:37:58 AM	0	Flow Error		11:37:32 AM	0.008	Flow Error	-0.008
11:38:58 AM	0	Flow Error		11:38:32 AM	0.005	Flow Error	-0.005
				11:39:32 AM	0.009	Flow Error	-0.009
				11:40:32 AM	0.004	Flow Error	-0.004
				11:41:32 AM	0.004	Flow Error	-0.004
				11:42:32 AM	0.004	Flow Error	-0.004

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_008
Test Start Time	7:10:08 AM
Test Start Date	3/21/2013
Test Length [D:H:M]	0:03:48
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.003
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.083
Mass TWA [mg/m3]	0.001
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	228

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7:10:08 AM	0.074		
7:11:08 AM	0.011		
7:12:08 AM	0.024		
7:13:08 AM	0		
7:14:08 AM	0		
7:15:08 AM	0		
7:16:08 AM	0		
7:17:08 AM	0		
7:18:08 AM	0		
7:19:08 AM	0		
7:20:08 AM	0		
7:21:08 AM	0		
7:22:08 AM	0		
7:23:08 AM	0.002		
7:24:08 AM	0.004		
7:25:08 AM	0		
7:26:08 AM	0		
7:27:08 AM	0		
7:28:08 AM	0.001		
7:29:08 AM	0		
7:30:08 AM	0.005		
7:31:08 AM	0.001		
7:32:08 AM	0		
7:33:08 AM	0		
7:34:08 AM	0.005		
7:35:08 AM	0		
7:36:08 AM	0		
7:37:08 AM	0.004		
7:38:08 AM	0.035		
7:39:08 AM	0		
7:40:08 AM	0		
7:41:08 AM	0.005		
7:42:08 AM	0		
7:43:08 AM	0		
7:44:08 AM	0.002		
7:45:08 AM	0		
7:46:08 AM	0		
7:47:08 AM	0		
7:48:08 AM	0		
7:49:08 AM	0		
7:50:08 AM	0		
7:51:08 AM	0.021		
7:52:08 AM	0		
7:53:08 AM	0		
7:54:08 AM	0		
7:55:08 AM	0		
7:56:08 AM	0		
7:57:08 AM	0		
7:58:08 AM	0		
7:59:08 AM	0		
8:00:08 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_008
Test Start Time	7:11:47 AM
Test Start Date	3/21/2013
Test Length [D:H:M]	0:03:44
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.055
Mass Minimum [mg/m3]	0.025
Mass Maximum [mg/m3]	0.207
Mass TWA [mg/m3]	0.026
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	221

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
				0.074
7:11:47 AM	0.132			-0.121
7:12:47 AM	0.041			-0.017
7:13:47 AM	0.049			-0.049
7:14:47 AM	0.05			-0.05
7:15:47 AM	0.054			-0.054
7:16:47 AM	0.06			-0.06
7:17:47 AM	0.037			-0.037
7:18:47 AM	0.034			-0.034
7:19:47 AM	0.061			-0.061
7:20:47 AM	0.063			-0.063
7:21:47 AM	0.052			-0.052
7:22:47 AM	0.032			-0.032
7:23:47 AM	0.038			-0.036
7:24:47 AM	0.05			-0.046
7:25:47 AM	0.055			-0.055
7:26:47 AM	0.068			-0.068
7:27:47 AM	0.062			-0.062
7:28:47 AM	0.082			-0.081
7:29:47 AM	0.207			-0.207
7:30:47 AM	0.066			-0.061
7:31:47 AM	0.046			-0.045
7:32:47 AM	0.058			-0.058
7:33:47 AM	0.098			-0.098
7:34:47 AM	0.061			-0.056
7:35:47 AM	0.047			-0.047
7:36:47 AM	0.124			-0.124
7:37:47 AM	0.047			-0.043
7:38:47 AM	0.046			-0.011
7:39:47 AM	0.034			-0.034
7:40:47 AM	0.064			-0.064
7:41:47 AM	0.048			-0.043
7:42:47 AM	0.045			-0.045
7:43:47 AM	0.109			-0.109
7:44:47 AM	0.065			-0.063
7:45:47 AM	0.058			-0.058
7:46:47 AM	0.076			-0.076
7:47:47 AM	0.034			-0.034
7:48:47 AM	0.04			-0.04
7:49:47 AM	0.037			-0.037
7:50:47 AM	0.044			-0.044
7:51:47 AM	0.045			-0.024
7:52:47 AM	0.03			-0.03
7:53:47 AM	0.032			-0.032
7:54:47 AM	0.038			-0.038
7:55:47 AM	0.032			-0.032
7:56:47 AM	0.034			-0.034
7:57:47 AM	0.043			-0.043
7:58:47 AM	0.051			-0.051
7:59:47 AM	0.051			-0.051
8:00:47 AM	0.034			-0.034

8:01:08 AM	0		8:01:47 AM	0.064	-0.064
8:02:08 AM	0		8:02:47 AM	0.036	-0.036
8:03:08 AM	0.002		8:03:47 AM	0.031	-0.029
8:04:08 AM	0		8:04:47 AM	0.031	-0.031
8:05:08 AM	0		8:05:47 AM	0.027	-0.027
8:06:08 AM	0		8:06:47 AM	0.036	-0.036
8:07:08 AM	0		8:07:47 AM	0.041	-0.041
8:08:08 AM	0		8:08:47 AM	0.034	-0.034
8:09:08 AM	0		8:09:47 AM	0.026	-0.026
8:10:08 AM	0		8:10:47 AM	0.036	-0.036
8:11:08 AM	0		8:11:47 AM	0.068	-0.068
8:12:08 AM	0		8:12:47 AM	0.039	-0.039
8:13:08 AM	0		8:13:47 AM	0.037	-0.037
8:14:08 AM	0.001		8:14:47 AM	0.06	-0.059
8:15:08 AM	0		8:15:47 AM	0.071	-0.071
8:16:08 AM	0		8:16:47 AM	0.079	-0.079
8:17:08 AM	0		8:17:47 AM	0.048	-0.048
8:18:08 AM	0		8:18:47 AM	0.074	-0.074
8:19:08 AM	0		8:19:47 AM	0.072	-0.072
8:20:08 AM	0		8:20:47 AM	0.048	-0.048
8:21:08 AM	0		8:21:47 AM	0.167	-0.167
8:22:08 AM	0		8:22:47 AM	0.05	-0.05
8:23:08 AM	0.041		8:23:47 AM	0.091	-0.05
8:24:08 AM	0		8:24:47 AM	0.069	-0.069
8:25:08 AM	0		8:25:47 AM	0.028	-0.028
8:26:08 AM	0		8:26:47 AM	0.094	-0.094
8:27:08 AM	0		8:27:47 AM	0.042	-0.042
8:28:08 AM	0		8:28:47 AM	0.073	-0.073
8:29:08 AM	0		8:29:47 AM	0.041	-0.041
8:30:08 AM	0		8:30:47 AM	0.042	-0.042
8:31:08 AM	0		8:31:47 AM	0.056	-0.056
8:32:08 AM	0		8:32:47 AM	0.044	-0.044
8:33:08 AM	0		8:33:47 AM	0.031	-0.031
8:34:08 AM	0		8:34:47 AM	0.043	-0.043
8:35:08 AM	0		8:35:47 AM	0.063	-0.063
8:36:08 AM	0		8:36:47 AM	0.056	-0.056
8:37:08 AM	0		8:37:47 AM	0.061	-0.061
8:38:08 AM	0		8:38:47 AM	0.066	-0.066
8:39:08 AM	0		8:39:47 AM	0.06	-0.06
8:40:08 AM	0		8:40:47 AM	0.057	-0.057
8:41:08 AM	0		8:41:47 AM	0.05	-0.05
8:42:08 AM	0		8:42:47 AM	0.061	-0.061
8:43:08 AM	0		8:43:47 AM	0.03	-0.03
8:44:08 AM	0.001		8:44:47 AM	0.04	-0.039
8:45:08 AM	0		8:45:47 AM	0.035	-0.035
8:46:08 AM	0		8:46:47 AM	0.067	-0.067
8:47:08 AM	0		8:47:47 AM	0.055	-0.055
8:48:08 AM	0		8:48:47 AM	0.031	-0.031
8:49:08 AM	0		8:49:47 AM	0.033	-0.033
8:50:08 AM	0		8:50:47 AM	0.039	-0.039
8:51:08 AM	0		8:51:47 AM	0.038	-0.038
8:52:08 AM	0		8:52:47 AM	0.095	-0.095
8:53:08 AM	0.005		8:53:47 AM	0.046	-0.041
8:54:08 AM	0.001		8:54:47 AM	0.051	-0.05
8:55:08 AM	0		8:55:47 AM	0.076	-0.076
8:56:08 AM	0		8:56:47 AM	0.039	-0.039
8:57:08 AM	0		8:57:47 AM	0.051	-0.051
8:58:08 AM	0		8:58:47 AM	0.039	-0.039
8:59:08 AM	0		8:59:47 AM	0.033	-0.033
9:00:08 AM	0		9:00:47 AM	0.052	-0.052
9:01:08 AM	0		9:01:47 AM	0.031	-0.031
9:02:08 AM	0		9:02:47 AM	0.051	-0.051
9:03:08 AM	0.008		9:03:47 AM	0.058	-0.05
9:04:08 AM	0.014		9:04:47 AM	0.102	-0.088
9:05:08 AM	0		9:05:47 AM	0.046	-0.046
9:06:08 AM	0.026		9:06:47 AM	0.034	-0.008
9:07:08 AM	0		9:07:47 AM	0.055	-0.055
9:08:08 AM	0		9:08:47 AM	0.053	-0.053
9:09:08 AM	0.002		9:09:47 AM	0.053	-0.051
9:10:08 AM	0		9:10:47 AM	0.048	-0.048
9:11:08 AM	0		9:11:47 AM	0.05	-0.05
9:12:08 AM	0		9:12:47 AM	0.08	-0.08

9:13:08 AM	0		9:13:47 AM	0.061	-0.061
9:14:08 AM	0		9:14:47 AM	0.047	-0.047
9:15:08 AM	0		9:15:47 AM	0.043	-0.043
9:16:08 AM	0		9:16:47 AM	0.067	-0.067
9:17:08 AM	0		9:17:47 AM	0.054	-0.054
9:18:08 AM	0		9:18:47 AM	0.12	-0.12
9:19:08 AM	0		9:19:47 AM	0.061	-0.061
9:20:08 AM	0.003		9:20:47 AM	0.061	-0.058
9:21:08 AM	0.002		9:21:47 AM	0.062	-0.06
9:22:08 AM	0		9:22:47 AM	0.091	-0.091
9:23:08 AM	0		9:23:47 AM	0.033	-0.033
9:24:08 AM	0		9:24:47 AM	0.059	-0.059
9:25:08 AM	0		9:25:47 AM	0.039	-0.039
9:26:08 AM	0		9:26:47 AM	0.031	-0.031
9:27:08 AM	0		9:27:47 AM	0.043	-0.043
9:28:08 AM	0		9:28:47 AM	0.049	-0.049
9:29:08 AM	0		9:29:47 AM	0.05	-0.05
9:30:08 AM	0		9:30:47 AM	0.035	-0.035
9:31:08 AM	0.019		9:31:47 AM	0.03	-0.011
9:32:08 AM	0		9:32:47 AM	0.034	-0.034
9:33:08 AM	0		9:33:47 AM	0.066	-0.066
9:34:08 AM	0		9:34:47 AM	0.071	-0.071
9:35:08 AM	0.064		9:35:47 AM	0.082	-0.018
9:36:08 AM	0.027		9:36:47 AM	0.05	-0.023
9:37:08 AM	0.004		9:37:47 AM	0.14	-0.136
9:38:08 AM	0		9:38:47 AM	0.068	-0.068
9:39:08 AM	0		9:39:47 AM	0.031	-0.031
9:40:08 AM	0.075		9:40:47 AM	0.025	0.05
9:41:08 AM	0.01		9:41:47 AM	0.035	-0.025
9:42:08 AM	0		9:42:47 AM	0.115	-0.115
9:43:08 AM	0		9:43:47 AM	0.055	-0.055
9:44:08 AM	0		9:44:47 AM	0.042	-0.042
9:45:08 AM	0.003		9:45:47 AM	0.041	-0.038
9:46:08 AM	0.008		9:46:47 AM	0.027	-0.019
9:47:08 AM	0		9:47:47 AM	0.037	-0.037
9:48:08 AM	0		9:48:47 AM	0.043	-0.043
9:49:08 AM	0		9:49:47 AM	0.068	-0.068
9:50:08 AM	0		9:50:47 AM	0.038	-0.038
9:51:08 AM	0		9:51:47 AM	0.046	-0.046
9:52:08 AM	0		9:52:47 AM	0.062	-0.062
9:53:08 AM	0		9:53:47 AM	0.043	-0.043
9:54:08 AM	0		9:54:47 AM	0.037	-0.037
9:55:08 AM	0		9:55:47 AM	0.054	-0.054
9:56:08 AM	0		9:56:47 AM	0.034	-0.034
9:57:08 AM	0		9:57:47 AM	0.039	-0.039
9:58:08 AM	0		9:58:47 AM	0.038	-0.038
9:59:08 AM	0		9:59:47 AM	0.032	-0.032
10:00:08 AM	0		10:00:47 AM	0.038	-0.038
10:01:08 AM	0		10:01:47 AM	0.053	-0.053
10:02:08 AM	0		10:02:47 AM	0.185	-0.185
10:03:08 AM	0.001		10:03:47 AM	0.087	-0.086
10:04:08 AM	0		10:04:47 AM	0.054	-0.054
10:05:08 AM	0		10:05:47 AM	0.046	-0.046
10:06:08 AM	0.013		10:06:47 AM	0.049	-0.036
10:07:08 AM	0		10:07:47 AM	0.036	-0.036
10:08:08 AM	0		10:08:47 AM	0.08	-0.08
10:09:08 AM	0		10:09:47 AM	0.036	-0.036
10:10:08 AM	0		10:10:47 AM	0.044	-0.044
10:11:08 AM	0.001		10:11:47 AM	0.03	-0.029
10:12:08 AM	0.002		10:12:47 AM	0.114	-0.112
10:13:08 AM	0		10:13:47 AM	0.041	-0.041
10:14:08 AM	0		10:14:47 AM	0.069	-0.069
10:15:08 AM	0		10:15:47 AM	0.032	-0.032
10:16:08 AM	0		10:16:47 AM	0.059	-0.059
10:17:08 AM	0.001		10:17:47 AM	0.039	-0.038
10:18:08 AM	0		10:18:47 AM	0.041	-0.041
10:19:08 AM	0		10:19:47 AM	0.036	-0.036
10:20:08 AM	0		10:20:47 AM	0.056	-0.056
10:21:08 AM	0		10:21:47 AM	0.049	-0.049
10:22:08 AM	0		10:22:47 AM	0.071	-0.071
10:23:08 AM	0		10:23:47 AM	0.064	-0.064
10:24:08 AM	0		10:24:47 AM	0.034	-0.034

10:25:08 AM	0		10:25:47 AM	0.068	-0.068
10:26:08 AM	0		10:26:47 AM	0.04	-0.04
10:27:08 AM	0.006		10:27:47 AM	0.073	-0.067
10:28:08 AM	0		10:28:47 AM	0.052	-0.052
10:29:08 AM	0		10:29:47 AM	0.034	-0.034
10:30:08 AM	0		10:30:47 AM	0.067	-0.067
10:31:08 AM	0		10:31:47 AM	0.042	-0.042
10:32:08 AM	0		10:32:47 AM	0.088	-0.088
10:33:08 AM	0.001		10:33:47 AM	0.118	-0.117
10:34:08 AM	0		10:34:47 AM	0.069	-0.069
10:35:08 AM	0.083		10:35:47 AM	0.086	-0.003
10:36:08 AM	0.001		10:36:47 AM	0.039	-0.038
10:37:08 AM	0.007		10:37:47 AM	0.049	-0.042
10:38:08 AM	0.001		10:38:47 AM	0.051	-0.05
10:39:08 AM	0		10:39:47 AM	0.078	-0.078
10:40:08 AM	0		10:40:47 AM	0.137	-0.137
10:41:08 AM	0		10:41:47 AM	0.067	-0.067
10:42:08 AM	0.02		10:42:47 AM	0.036	-0.016
10:43:08 AM	0		10:43:47 AM	0.068	-0.068
10:44:08 AM	0.004		10:44:47 AM	0.045	-0.041
10:45:08 AM	0		10:45:47 AM	0.057	-0.057
10:46:08 AM	0		10:46:47 AM	0.055	-0.055
10:47:08 AM	0		10:47:47 AM	0.051	-0.051
10:48:08 AM	0		10:48:47 AM	0.032	-0.032
10:49:08 AM	0		10:49:47 AM	0.035	-0.035
10:50:08 AM	0		10:50:47 AM	0.04	-0.04
10:51:08 AM	0		10:51:47 AM	0.034	-0.034
10:52:08 AM	0				0
10:53:08 AM	0				0
10:54:08 AM	0				0
10:55:08 AM	0				0
10:56:08 AM	0				0
10:57:08 AM	0				0

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_009
Test Start Time	7:13:33 AM
Test Start Date	3/23/2013
Test Length [D:H:M]	0:07:42
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.088
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	2.29
Mass TWA [mg/m3]	0.085
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	462

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
7:13:33 AM	0.035		
7:14:33 AM	0.042		
7:15:33 AM	0.32		
7:16:33 AM	0.001		
7:17:33 AM	0		
7:18:33 AM	0.007		
7:19:33 AM	0		
7:20:33 AM	0.042		
7:21:33 AM	0.093		
7:22:33 AM	0.181		
7:23:33 AM	0.267		
7:24:33 AM	0.031		
7:25:33 AM	0.076		
7:26:33 AM	0		
7:27:33 AM	0.022		
7:28:33 AM	0.034		
7:29:33 AM	0		
7:30:33 AM	0		
7:31:33 AM	0		
7:32:33 AM	0.003		
7:33:33 AM	0.002		
7:34:33 AM	0		
7:35:33 AM	0.02		
7:36:33 AM	0.164		
7:37:33 AM	0.032		
7:38:33 AM	0.001		
7:39:33 AM	0.076		
7:40:33 AM	0.359		
7:41:33 AM	0		
7:42:33 AM	0		
7:43:33 AM	0.024		
7:44:33 AM	0.006		
7:45:33 AM	0.001		
7:46:33 AM	0.001		
7:47:33 AM	0.008		
7:48:33 AM	0.001		
7:49:33 AM	0		
7:50:33 AM	0.12		
7:51:33 AM	0.026		
7:52:33 AM	0.017		
7:53:33 AM	0.122		
7:54:33 AM	0.008		
7:55:33 AM	0		
7:56:33 AM	0		
7:57:33 AM	0		
7:58:33 AM	0		
7:59:33 AM	0		
8:00:33 AM	0.009		
8:01:33 AM	0.601		
8:02:33 AM	0		
8:03:33 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_009
Test Start Time	6:39:12 AM
Test Start Date	3/23/2013
Test Length [D:H:M]	0:08:18
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.176
Mass Minimum [mg/m3]	0.054
Mass Maximum [mg/m3]	2.86
Mass TWA [mg/m3]	0.176
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	490

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:39:12 AM	0.51			-0.475
6:40:12 AM	0.257			-0.215
6:41:12 AM	0.241			0.079
6:42:12 AM	0.114			-0.113
6:43:12 AM	0.096			-0.096
6:44:12 AM	0.147			-0.14
6:45:12 AM	0.125			-0.125
6:46:12 AM	0.054			-0.012
6:47:12 AM	0.069			0.024
6:48:12 AM	0.142			0.039
6:49:12 AM	0.241			0.026
6:50:12 AM	0.136			-0.105
6:51:12 AM	0.171			-0.095
6:52:12 AM	0.188			-0.188
6:53:12 AM	0.276			-0.254
6:54:12 AM	0.176			-0.142
6:55:12 AM	0.237			-0.237
6:56:12 AM	0.122			-0.122
6:57:12 AM	0.144			-0.144
6:58:12 AM	0.136			-0.133
6:59:12 AM	0.187			-0.185
7:00:12 AM	0.171			-0.171
7:01:12 AM	0.145			-0.125
7:02:12 AM	0.078			0.086
7:03:12 AM	0.108			-0.076
7:04:12 AM	0.176			-0.175
7:05:12 AM	0.087			-0.011
7:06:12 AM	0.13			0.229
7:07:12 AM	0.177			-0.177
7:08:12 AM	0.098			-0.098
7:09:12 AM	0.124			-0.1
7:10:12 AM	0.072			-0.066
7:11:12 AM	0.08			-0.079
7:12:12 AM	0.104			-0.103
7:13:12 AM	0.137			-0.129
7:14:12 AM	0.103			-0.102
7:15:12 AM	0.147			-0.147
7:16:12 AM	2.86			-2.74
7:17:12 AM	0.12			-0.094
7:18:12 AM	0.082			-0.065
7:19:12 AM	0.189			-0.067
7:20:12 AM	0.287			-0.279
7:21:12 AM	2.43			-2.43
7:22:12 AM	0.14			-0.14
7:23:12 AM	0.183			-0.183
7:24:12 AM	0.092			-0.092
7:25:12 AM	0.085			-0.085
7:26:12 AM	0.066			-0.057
7:27:12 AM	0.272			0.329
7:28:12 AM	0.111			-0.111
7:29:12 AM	0.088			-0.088

8:04:33 AM	0		7:30:12 AM	0.157	-0.157
8:05:33 AM	0.103		7:31:12 AM	0.173	-0.07
8:06:33 AM	0.024		7:32:12 AM	0.125	-0.101
8:07:33 AM	0.147		7:33:12 AM	0.095	0.052
8:08:33 AM	0.122		7:34:12 AM	0.094	0.028
8:09:33 AM	0.015		7:35:12 AM	0.117	-0.102
8:10:33 AM	0.149		7:36:12 AM	0.272	-0.123
8:11:33 AM	0.007		7:37:12 AM	0.105	-0.098
8:12:33 AM	0.001		7:38:12 AM	0.091	-0.09
8:13:33 AM	0.083		7:39:12 AM	0.106	-0.023
8:14:33 AM	0.104		7:40:12 AM	0.075	0.029
8:15:33 AM	0.084		7:41:12 AM	1.26	-1.176
8:16:33 AM	0.153		7:42:12 AM	0.106	0.047
8:17:33 AM	0		7:43:12 AM	0.082	-0.082
8:18:33 AM	0		7:44:12 AM	0.09	-0.09
8:19:33 AM	0.472		7:45:12 AM	0.121	0.351
8:20:33 AM	0.058		7:46:12 AM	0.095	-0.037
8:21:33 AM	0.012		7:47:12 AM	0.088	-0.076
8:22:33 AM	0.063		7:48:12 AM	0.065	-0.002
8:23:33 AM	0.136		7:49:12 AM	0.081	0.055
8:24:33 AM	0.093		7:50:12 AM	0.139	-0.046
8:25:33 AM	0.033		7:51:12 AM	0.077	-0.044
8:26:33 AM	0.008		7:52:12 AM	0.113	-0.105
8:27:33 AM	0.004		7:53:12 AM	0.089	-0.085
8:28:33 AM	0.06		7:54:12 AM	0.066	-0.006
8:29:33 AM	0.072		7:55:12 AM	0.054	0.018
8:30:33 AM	0.143		7:56:12 AM	0.079	0.064
8:31:33 AM	0.066		7:57:12 AM	0.12	-0.054
8:32:33 AM	0.021		7:58:12 AM	0.054	-0.033
8:33:33 AM	0.109		7:59:12 AM	0.151	-0.042
8:34:33 AM	0.132		8:00:12 AM	0.113	0.019
8:35:33 AM	0.059		8:01:12 AM	0.059	0
8:36:33 AM	0.003		8:02:12 AM	0.871	-0.868
8:37:33 AM	0		8:03:12 AM	0.122	-0.122
8:38:33 AM	0.056		8:04:12 AM	0.155	-0.099
8:39:33 AM	0.011		8:05:12 AM	0.128	-0.117
8:40:33 AM	0.036		8:06:12 AM	0.342	-0.306
8:41:33 AM	0.037		8:07:12 AM	0.237	-0.2
8:42:33 AM	0.181		8:08:12 AM	0.112	0.069
8:43:33 AM	0.012		8:09:12 AM	0.2	-0.188
8:44:33 AM	0.001		8:10:12 AM	0.135	-0.134
8:45:33 AM	0.001		8:11:12 AM	0.09	-0.089
8:46:33 AM	0.001		8:12:12 AM	0.152	-0.151
8:47:33 AM	0.013		8:13:12 AM	0.148	-0.135
8:48:33 AM	0.343		8:14:12 AM	0.14	0.203
8:49:33 AM	0		8:15:12 AM	0.153	-0.153
8:50:33 AM	0		8:16:12 AM	0.065	-0.065
8:51:33 AM	0		8:17:12 AM	0.911	-0.911
8:52:33 AM	0.005		8:18:12 AM	0.067	-0.062
8:53:33 AM	0		8:19:12 AM	0.121	-0.121
8:54:33 AM	0.142		8:20:12 AM	0.115	0.027
8:55:33 AM	0.171		8:21:12 AM	0.247	-0.076
8:56:33 AM	0.002		8:22:12 AM	0.243	-0.241
8:57:33 AM	0.007		8:23:12 AM	0.111	-0.104
8:58:33 AM	0.009		8:24:12 AM	0.104	-0.095
8:59:33 AM	0		8:25:12 AM	0.15	-0.15
9:00:33 AM	0.008		8:26:12 AM	0.204	-0.196
9:01:33 AM	0.001		8:27:12 AM	0.152	-0.151
9:02:33 AM	0		8:28:12 AM	0.201	-0.201
9:03:33 AM	0.013		8:29:12 AM	0.228	-0.215
9:04:33 AM	0.005		8:30:12 AM	0.145	-0.14
9:05:33 AM	0		8:31:12 AM	0.147	-0.147
9:06:33 AM	0.001		8:32:12 AM	0.128	-0.127
9:07:33 AM	0.006		8:33:12 AM	0.839	-0.833
9:08:33 AM	0.012		8:34:12 AM	0.191	-0.179
9:09:33 AM	0.101		8:35:12 AM	0.161	-0.06
9:10:33 AM	0.005		8:36:12 AM	0.172	-0.167
9:11:33 AM	0		8:37:12 AM	0.206	-0.206
9:12:33 AM	0		8:38:12 AM	0.189	-0.189
9:13:33 AM	0		8:39:12 AM	0.201	-0.201
9:14:33 AM	0.003		8:40:12 AM	0.153	-0.15
9:15:33 AM	0		8:41:12 AM	0.241	-0.241

9:16:33 AM	0.077		8:42:12 AM	0.161	-0.084
9:17:33 AM	0.026		8:43:12 AM	0.149	-0.123
9:18:33 AM	0		8:44:12 AM	0.128	-0.128
9:19:33 AM	0.13		8:45:12 AM	0.549	-0.419
9:20:33 AM	0.002		8:46:12 AM	0.165	-0.163
9:21:33 AM	0.044		8:47:12 AM	0.237	-0.193
9:22:33 AM	0.064		8:48:12 AM	0.113	-0.049
9:23:33 AM	0.015		8:49:12 AM	0.119	-0.104
9:24:33 AM	0		8:50:12 AM	0.116	-0.116
9:25:33 AM	0		8:51:12 AM	0.169	-0.169
9:26:33 AM	0		8:52:12 AM	0.205	-0.205
9:27:33 AM	0		8:53:12 AM	0.35	-0.35
9:28:33 AM	0		8:54:12 AM	0.16	-0.16
9:29:33 AM	0		8:55:12 AM	0.193	-0.193
9:30:33 AM	0		8:56:12 AM	0.143	-0.143
9:31:33 AM	0		8:57:12 AM	0.13	-0.13
9:32:33 AM	0		8:58:12 AM	0.185	-0.185
9:33:33 AM	0.005		8:59:12 AM	0.171	-0.166
9:34:33 AM	0.003		9:00:12 AM	0.16	-0.157
9:35:33 AM	0.009		9:01:12 AM	0.165	-0.156
9:36:33 AM	0.004		9:02:12 AM	0.162	-0.158
9:37:33 AM	0		9:03:12 AM	0.122	-0.122
9:38:33 AM	0.03		9:04:12 AM	0.135	-0.105
9:39:33 AM	0.004		9:05:12 AM	0.172	-0.168
9:40:33 AM	0.003		9:06:12 AM	0.198	-0.195
9:41:33 AM	0		9:07:12 AM	0.201	-0.201
9:42:33 AM	0		9:08:12 AM	0.168	-0.168
9:43:33 AM	0.001		9:09:12 AM	0.132	-0.131
9:44:33 AM	0		9:10:12 AM	0.111	-0.111
9:45:33 AM	0.006		9:11:12 AM	0.118	-0.112
9:46:33 AM	0.007		9:12:12 AM	0.144	-0.137
9:47:33 AM	0		9:13:12 AM	0.141	-0.141
9:48:33 AM	0.003		9:14:12 AM	0.174	-0.171
9:49:33 AM	0		9:15:12 AM	0.15	-0.15
9:50:33 AM	0		9:16:12 AM	0.139	-0.139
9:51:33 AM	0		9:17:12 AM	0.213	-0.213
9:52:33 AM	0.002		9:18:12 AM	0.126	-0.124
9:53:33 AM	0		9:19:12 AM	0.167	-0.167
9:54:33 AM	0.023		9:20:12 AM	0.168	-0.145
9:55:33 AM	0.134		9:21:12 AM	0.166	-0.032
9:56:33 AM	0.104		9:22:12 AM	0.124	-0.02
9:57:33 AM	0.044		9:23:12 AM	0.125	-0.081
9:58:33 AM	0.379		9:24:12 AM	0.138	0.241
9:59:33 AM	0		9:25:12 AM	0.126	-0.126
10:00:33 AM	0.004		9:26:12 AM	0.12	-0.116
10:01:33 AM	0.023		9:27:12 AM	0.116	-0.093
10:02:33 AM	0.001		9:28:12 AM	0.099	-0.098
10:03:33 AM	0.001		9:29:12 AM	0.116	-0.115
10:04:33 AM	0.072		9:30:12 AM	0.123	-0.051
10:05:33 AM	0.039		9:31:12 AM	0.113	-0.074
10:06:33 AM	0.218		9:32:12 AM	0.143	0.075
10:07:33 AM	0.036		9:33:12 AM	0.167	-0.131
10:08:33 AM	2.29		9:34:12 AM	0.237	2.053
10:09:33 AM	0.013		9:35:12 AM	0.207	-0.194
10:10:33 AM	0.004		9:36:12 AM	0.111	-0.107
10:11:33 AM	0.019		9:37:12 AM	0.12	-0.101
10:12:33 AM	0		9:38:12 AM	0.151	-0.151
10:13:33 AM	0.003		9:39:12 AM	0.11	-0.107
10:14:33 AM	0.023		9:40:12 AM	0.118	-0.095
10:15:33 AM	0.086		9:41:12 AM	0.127	-0.041
10:16:33 AM	0		9:42:12 AM	0.117	-0.117
10:17:33 AM	0		9:43:12 AM	0.119	-0.119
10:18:33 AM	0		9:44:12 AM	0.109	-0.109
10:19:33 AM	0.04		9:45:12 AM	0.107	-0.067
10:20:33 AM	0.004		9:46:12 AM	0.101	-0.097
10:21:33 AM	0.018		9:47:12 AM	0.098	-0.08
10:22:33 AM	0.053		9:48:12 AM	0.139	-0.086
10:23:33 AM	0.09		9:49:12 AM	0.11	-0.02
10:24:33 AM	0.091		9:50:12 AM	0.146	-0.055
10:25:33 AM	0		9:51:12 AM	0.101	-0.101
10:26:33 AM	0.091		9:52:12 AM	0.154	-0.063
10:27:33 AM	0.143		9:53:12 AM	0.308	-0.165

10:28:33 AM	0.107	9:54:12 AM	0.176	-0.069
10:29:33 AM	0.007	9:55:12 AM	0.514	-0.507
10:30:33 AM	0.022	9:56:12 AM	0.124	-0.102
10:31:33 AM	0.006	9:57:12 AM	0.13	-0.124
10:32:33 AM	0	9:58:12 AM	0.165	-0.165
10:33:33 AM	0	9:59:12 AM	0.159	-0.159
10:34:33 AM	0	10:00:12 AM	0.11	-0.11
10:35:33 AM	0	10:01:12 AM	0.227	-0.227
10:36:33 AM	0.002	10:02:12 AM	0.164	-0.162
10:37:33 AM	0	10:03:12 AM	0.205	-0.205
10:38:33 AM	0	10:04:12 AM	0.201	-0.201
10:39:33 AM	0.028	10:05:12 AM	0.309	-0.281
10:40:33 AM	0.011	10:06:12 AM	0.161	-0.15
10:41:33 AM	0	10:07:12 AM	0.123	-0.123
10:42:33 AM	0	10:08:12 AM	0.138	-0.138
10:43:33 AM	0.005	10:09:12 AM	0.119	-0.114
10:44:33 AM	0	10:10:12 AM	0.112	-0.112
10:45:33 AM	0.05	10:11:12 AM	0.249	-0.199
10:46:33 AM	0.022	10:12:12 AM	0.45	-0.428
10:47:33 AM	0.079	10:13:12 AM	0.109	-0.03
10:48:33 AM	0	10:14:12 AM	0.116	-0.116
10:49:33 AM	0	10:15:12 AM	0.121	-0.121
10:50:33 AM	0.002	10:16:12 AM	0.237	-0.235
10:51:33 AM	0	10:17:12 AM	0.141	-0.141
10:52:33 AM	0.157	10:18:12 AM	0.155	0.002
10:53:33 AM	0.035	10:19:12 AM	0.18	-0.145
10:54:33 AM	0.136	10:20:12 AM	0.192	-0.056
10:55:33 AM	0.04	10:21:12 AM	0.211	-0.171
10:56:33 AM	0.042	10:22:12 AM	0.141	-0.099
10:57:33 AM	0.001	10:23:12 AM	0.212	-0.211
10:58:33 AM	0.016	10:24:12 AM	0.197	-0.181
10:59:33 AM	0.038	10:25:12 AM	0.213	-0.175
11:00:33 AM	0	10:26:12 AM	0.141	-0.141
11:01:33 AM	0.001	10:27:12 AM	0.128	-0.127
11:02:33 AM	0.005	10:28:12 AM	0.139	-0.134
11:03:33 AM	0.001	10:29:12 AM	0.122	-0.121
11:04:33 AM	0	10:30:12 AM	0.099	-0.099
11:05:33 AM	0	10:31:12 AM	0.09	-0.09
11:06:33 AM	0.001	10:32:12 AM	0.128	-0.127
11:07:33 AM	0	10:33:12 AM	0.135	-0.135
11:08:33 AM	0.006	10:34:12 AM	0.106	-0.1
11:09:33 AM	0	10:35:12 AM	0.088	-0.088
11:10:33 AM	0.006	10:36:12 AM	0.277	-0.271
11:11:33 AM	0.004	10:37:12 AM	0.154	-0.15
11:12:33 AM	0.021	10:38:12 AM	0.117	-0.096
11:13:33 AM	0.019	10:39:12 AM	0.128	-0.109
11:14:33 AM	0.133	10:40:12 AM	0.117	0.016
11:15:33 AM	0.031	10:41:12 AM	0.125	-0.094
11:16:33 AM	0.009	10:42:12 AM	0.268	-0.259
11:17:33 AM	0.042	10:43:12 AM	0.169	-0.127
11:18:33 AM	0.043	10:44:12 AM	0.161	-0.118
11:19:33 AM	0.283	10:45:12 AM	0.14	0.143
11:20:33 AM	0.426	10:46:12 AM	0.133	0.293
11:21:33 AM	0.098	10:47:12 AM	0.164	-0.066
11:22:33 AM	0	10:48:12 AM	0.165	-0.165
11:23:33 AM	0	10:49:12 AM	0.299	-0.299
11:24:33 AM	0.013	10:50:12 AM	0.225	-0.212
11:25:33 AM	0	10:51:12 AM	0.223	-0.223
11:26:33 AM	0.044	10:52:12 AM	0.281	-0.237
11:27:33 AM	0.018	10:53:12 AM	0.155	-0.137
11:28:33 AM	0.02	10:54:12 AM	0.159	-0.139
11:29:33 AM	1.11	10:55:12 AM	0.161	0.949
11:30:33 AM	0.082	10:56:12 AM	0.109	-0.027
11:31:33 AM	0.607	10:57:12 AM	0.139	0.468
11:32:33 AM	0.244	10:58:12 AM	0.165	0.079
11:33:33 AM	0.095	10:59:12 AM	0.134	-0.039
11:34:33 AM	0.536	11:00:12 AM	0.154	0.382
11:35:33 AM	0.346	11:01:12 AM	0.444	-0.098
11:36:33 AM	0.138	11:02:12 AM	0.21	-0.072
11:37:33 AM	0.554	11:03:12 AM	0.15	0.404
11:38:33 AM	0.742	11:04:12 AM	0.091	0.651
11:39:33 AM	0.987	11:05:12 AM	0.113	0.874

11:40:33 AM	0.785		11:06:12 AM	0.131	0.654
11:41:33 AM	0.035		11:07:12 AM	0.099	-0.064
11:42:33 AM	0.064		11:08:12 AM	0.114	-0.05
11:43:33 AM	0.01		11:09:12 AM	0.274	-0.264
11:44:33 AM	0.114		11:10:12 AM	0.318	-0.204
11:45:33 AM	0.095		11:11:12 AM	0.742	-0.647
11:46:33 AM	0.631		11:12:12 AM	0.139	0.492
11:47:33 AM	0.257		11:13:12 AM	0.133	0.124
11:48:33 AM	0.405		11:14:12 AM	0.204	0.201
11:49:33 AM	0.208		11:15:12 AM	0.284	-0.076
11:50:33 AM	0.196		11:16:12 AM	0.361	-0.165
11:51:33 AM	0.119		11:17:12 AM	0.234	-0.115
11:52:33 AM	0.182		11:18:12 AM	0.152	0.03
11:53:33 AM	0.058		11:19:12 AM	0.128	-0.07
11:54:33 AM	0.057		11:20:12 AM	0.146	-0.089
11:55:33 AM	1.51		11:21:12 AM	0.105	1.405
11:56:33 AM	0.114		11:22:12 AM	0.235	-0.121
11:57:33 AM	0.6		11:23:12 AM	0.194	0.406
11:58:33 AM	0.304		11:24:12 AM	0.168	0.136
11:59:33 AM	0.316		11:25:12 AM	0.518	-0.202
12:00:33 PM	0.42		11:26:12 AM	0.22	0.2
12:01:33 PM	0.066		11:27:12 AM	0.217	-0.151
12:02:33 PM	0.288		11:28:12 AM	0.181	0.107
12:03:33 PM	0.296		11:29:12 AM	0.107	0.189
12:04:33 PM	0.205		11:30:12 AM	0.333	-0.128
12:05:33 PM	0.036		11:31:12 AM	0.157	-0.121
12:06:33 PM	0.124		11:32:12 AM	0.171	-0.047
12:07:33 PM	0.264		11:33:12 AM	0.283	-0.019
12:08:33 PM	0.29		11:34:12 AM	0.253	0.037
12:09:33 PM	1.07		11:35:12 AM	0.364	0.706
12:10:33 PM	0.198		11:36:12 AM	0.279	-0.081
12:11:33 PM	0.709		11:37:12 AM	0.168	0.541
12:12:33 PM	0.053		11:38:12 AM	0.113	-0.06
12:13:33 PM	0.026		11:39:12 AM	0.112	-0.086
12:14:33 PM	0.029		11:40:12 AM	0.152	-0.123
12:15:33 PM	0.002		11:41:12 AM	0.203	-0.201
12:16:33 PM	0		11:42:12 AM	0.167	-0.167
12:17:33 PM	0.279		11:43:12 AM	0.134	0.145
12:18:33 PM	0.153		11:44:12 AM	0.163	-0.01
12:19:33 PM	0.148		11:45:12 AM	0.175	-0.027
12:20:33 PM	0		11:46:12 AM	0.193	-0.193
12:21:33 PM	0		11:47:12 AM	0.139	-0.139
12:22:33 PM	0.066		11:48:12 AM	0.144	-0.078
12:23:33 PM	0.014		11:49:12 AM	0.128	-0.114
12:24:33 PM	0.006		11:50:12 AM	0.306	-0.3
12:25:33 PM	0.001		11:51:12 AM	0.21	-0.209
12:26:33 PM	0.001		11:52:12 AM	0.245	-0.244
12:27:33 PM	0.017		11:53:12 AM	0.19	-0.173
12:28:33 PM	0.009		11:54:12 AM	0.17	-0.161
12:29:33 PM	0.198		11:55:12 AM	0.269	-0.071
12:30:33 PM	0.169		11:56:12 AM	0.157	0.012
12:31:33 PM	0.112		11:57:12 AM	0.178	-0.066
12:32:33 PM	0.024		11:58:12 AM	0.191	-0.167
12:33:33 PM	0		11:59:12 AM	0.176	-0.176
12:34:33 PM	0.02		12:00:12 PM	0.234	-0.214
12:35:33 PM	0.068		12:01:12 PM	0.143	-0.075
12:36:33 PM	0.323		12:02:12 PM	0.158	0.165
12:37:33 PM	0.322		12:03:12 PM	0.197	0.125
12:38:33 PM	0.263		12:04:12 PM	0.27	-0.007
12:39:33 PM	0.096		12:05:12 PM	0.216	-0.12
12:40:33 PM	0.024		12:06:12 PM	0.2	-0.176
12:41:33 PM	0.026		12:07:12 PM	0.132	-0.106
12:42:33 PM	0.009		12:08:12 PM	0.115	-0.106
12:43:33 PM	0		12:09:12 PM	0.121	-0.121
12:44:33 PM	0.054		12:10:12 PM	0.112	-0.058
12:45:33 PM	0.265		12:11:12 PM	0.11	0.155
12:46:33 PM	0		12:12:12 PM	0.131	-0.131
12:47:33 PM	0.001		12:13:12 PM	0.183	-0.182
12:48:33 PM	0		12:14:12 PM	0.153	-0.153
12:49:33 PM	0.157		12:15:12 PM	0.103	0.054
12:50:33 PM	0.116		12:16:12 PM	0.114	0.002
12:51:33 PM	0.003		12:17:12 PM	0.204	-0.201

12:52:33 PM	0	12:18:12 PM	0.175	-0.175
12:53:33 PM	0.004	12:19:12 PM	0.154	-0.15
12:54:33 PM	0.005	12:20:12 PM	0.148	-0.143
12:55:33 PM	0	12:21:12 PM	0.146	-0.146
12:56:33 PM	0.36	12:22:12 PM	0.145	0.215
12:57:33 PM	0.016	12:23:12 PM	0.126	-0.11
12:58:33 PM	0.064	12:24:12 PM	0.276	-0.212
12:59:33 PM	0.195	12:25:12 PM	0.154	0.041
1:00:33 PM	0.382	12:26:12 PM	0.103	0.279
1:01:33 PM	0.27	12:27:12 PM	0.106	0.164
1:02:33 PM	0.545	12:28:12 PM	0.094	0.451
1:03:33 PM	0.086	12:29:12 PM	0.194	-0.108
1:04:33 PM	0.027	12:30:12 PM	0.249	-0.222
1:05:33 PM	0.003	12:31:12 PM	0.295	-0.292
1:06:33 PM	0.074	12:32:12 PM	0.329	-0.255
1:07:33 PM	0.001	12:33:12 PM	0.231	-0.23
1:08:33 PM	0.007	12:34:12 PM	0.195	-0.188
1:09:33 PM	0.008	12:35:12 PM	0.178	-0.17
1:10:33 PM	0.053	12:36:12 PM	0.172	-0.119
1:11:33 PM	0	12:37:12 PM	0.122	-0.122
1:12:33 PM	0.001	12:38:12 PM	0.139	-0.138
1:13:33 PM	0.04	12:39:12 PM	0.205	-0.165
1:14:33 PM	0.02	12:40:12 PM	0.137	-0.117
1:15:33 PM	0.032	12:41:12 PM	0.111	-0.079
1:16:33 PM	0	12:42:12 PM	0.114	-0.114
1:17:33 PM	0.252	12:43:12 PM	0.101	0.151
1:18:33 PM	0.036	12:44:12 PM	0.197	-0.161
1:19:33 PM	0.027	12:45:12 PM	0.152	-0.125
1:20:33 PM	0.037	12:46:12 PM	0.129	-0.092
1:21:33 PM	0.071	12:47:12 PM	0.113	-0.042
1:22:33 PM	0.146	12:48:12 PM	0.13	0.016
1:23:33 PM	0.186	12:49:12 PM	0.105	0.081
1:24:33 PM	0.324	12:50:12 PM	0.151	0.173
1:25:33 PM	0.015	12:51:12 PM	0.131	-0.116
1:26:33 PM	0	12:52:12 PM	0.126	-0.126
1:27:33 PM	0.023	12:53:12 PM	0.181	-0.158
1:28:33 PM	0.154	12:54:12 PM	0.168	-0.014
1:29:33 PM	0	12:55:12 PM	0.152	-0.152
1:30:33 PM	0	12:56:12 PM	0.157	-0.157
1:31:33 PM	0	12:57:12 PM	0.106	-0.106
1:32:33 PM	0.357	12:58:12 PM	0.099	0.258
1:33:33 PM	0.007	12:59:12 PM	0.113	-0.106
1:34:33 PM	0.004	1:00:12 PM	0.137	-0.133
1:35:33 PM	0.003	1:01:12 PM	0.127	-0.124
1:36:33 PM	0.022	1:02:12 PM	0.114	-0.092
1:37:33 PM	0.007	1:03:12 PM	0.123	-0.116
1:38:33 PM	0.024	1:04:12 PM	0.152	-0.128
1:39:33 PM	0.014	1:05:12 PM	0.137	-0.123
1:40:33 PM	0	1:06:12 PM	0.107	-0.107
1:41:33 PM	0.243	1:07:12 PM	0.124	0.119
1:42:33 PM	0.081	1:08:12 PM	0.136	-0.055
1:43:33 PM	0.023	1:09:12 PM	0.114	-0.091
1:44:33 PM	0.001	1:10:12 PM	0.099	-0.098
1:45:33 PM	0.006	1:11:12 PM	0.092	-0.086
1:46:33 PM	0	1:12:12 PM	0.095	-0.095
1:47:33 PM	0	1:13:12 PM	0.172	-0.172
1:48:33 PM	0.098	1:14:12 PM	0.191	-0.093
1:49:33 PM	0	1:15:12 PM	0.141	-0.141
1:50:33 PM	0.026	1:16:12 PM	0.21	-0.184
1:51:33 PM	0.002	1:17:12 PM	0.288	-0.286
1:52:33 PM	1.67	1:18:12 PM	0.217	1.453
1:53:33 PM	0.029	1:19:12 PM	0.122	-0.093
1:54:33 PM	0.087	1:20:12 PM	0.099	-0.012
1:55:33 PM	0.064	1:21:12 PM	0.118	-0.054
1:56:33 PM	0.172	1:22:12 PM	0.167	0.005
1:57:33 PM	0.384	1:23:12 PM	0.132	0.252
1:58:33 PM	0	1:24:12 PM	0.124	-0.124
1:59:33 PM	0	1:25:12 PM	0.095	-0.095
2:00:33 PM	0.002	1:26:12 PM	0.109	-0.107
2:01:33 PM	0	1:27:12 PM	0.148	-0.148
2:02:33 PM	0	1:28:12 PM	0.133	-0.133
2:03:33 PM	0	1:29:12 PM	0.132	-0.132

2:04:33 PM	0.063	
2:05:33 PM	0.116	
2:06:33 PM	0	
2:07:33 PM	0.003	
2:08:33 PM	0.001	
2:09:33 PM	0	
2:10:33 PM	0	
2:11:33 PM	0	
2:12:33 PM	0	
2:13:33 PM	0.004	
2:14:33 PM	0.003	
2:15:33 PM	0.009	
2:16:33 PM	0.049	
2:17:33 PM	0.014	
2:18:33 PM	0	
2:19:33 PM	0	
2:20:33 PM	0	
2:21:33 PM	0.148	
2:22:33 PM	0.171	
2:23:33 PM	0.025	
2:24:33 PM	0	
2:25:33 PM	0	
2:26:33 PM	0.076	
2:27:33 PM	0.17	
2:28:33 PM	0.055	
2:29:33 PM	0.298	
2:30:33 PM	0.008	
2:31:33 PM	0.013	
2:32:33 PM	0.206	
2:33:33 PM	0.002	
2:34:33 PM	0.027	
2:35:33 PM	0	
2:36:33 PM	0.026	
2:37:33 PM	0	
2:38:33 PM	0.011	
2:39:33 PM	0.007	
2:40:33 PM	0.001	
2:41:33 PM	0.045	
2:42:33 PM	0.02	
2:43:33 PM	0.273	
2:44:33 PM	0.076	
2:45:33 PM	0.002	
2:46:33 PM	0.013	
2:47:33 PM	0.024	
2:48:33 PM	0.003	
2:49:33 PM	0.026	
2:50:33 PM	0.199	
2:51:33 PM	0.094	
2:52:33 PM	0.003	
2:53:33 PM	0.061	
2:54:33 PM	0.003	

1:30:12 PM	0.168	-0.105
1:31:12 PM	0.151	-0.035
1:32:12 PM	0.127	-0.127
1:33:12 PM	0.135	-0.132
1:34:12 PM	0.098	-0.097
1:35:12 PM	0.165	-0.165
1:36:12 PM	0.122	-0.122
1:37:12 PM	0.104	-0.104
1:38:12 PM	0.102	-0.102
1:39:12 PM	0.139	-0.135
1:40:12 PM	0.247	-0.244
1:41:12 PM	0.451	-0.442
1:42:12 PM	0.143	-0.094
1:43:12 PM	0.128	-0.114
1:44:12 PM	0.121	-0.121
1:45:12 PM	0.099	-0.099
1:46:12 PM	0.157	-0.157
1:47:12 PM	0.139	0.009
1:48:12 PM	0.163	0.008
1:49:12 PM	0.138	-0.113
1:50:12 PM	0.194	-0.194
1:51:12 PM	0.115	-0.115
1:52:12 PM	0.107	-0.031
1:53:12 PM	0.12	0.05
1:54:12 PM	0.122	-0.067
1:55:12 PM	0.118	0.18
1:56:12 PM	0.126	-0.118
1:57:12 PM	0.107	-0.094
1:58:12 PM	0.102	0.104
1:59:12 PM	0.115	-0.113
2:00:12 PM	0.1	-0.073
2:01:12 PM	0.118	-0.118
2:02:12 PM	0.129	-0.103
2:03:12 PM	0.125	-0.125
2:04:12 PM	0.101	-0.09
2:05:12 PM	0.119	-0.112
2:06:12 PM	0.103	-0.102
2:07:12 PM	0.11	-0.065
2:08:12 PM	0.118	-0.098
2:09:12 PM	0.175	0.098
2:10:12 PM	0.113	-0.037
2:11:12 PM	0.107	-0.105
2:12:12 PM	0.103	-0.09
2:13:12 PM	0.103	-0.079
2:14:12 PM	0.172	-0.169
2:15:12 PM	0.17	-0.144
2:16:12 PM	0.172	0.027
2:17:12 PM	0.111	-0.017
2:18:12 PM	0.105	-0.102
2:19:12 PM	0.121	-0.06
2:20:12 PM	0.182	-0.179
2:21:12 PM	0.231	-0.231
2:22:12 PM	0.29	-0.29
2:23:12 PM	0.246	-0.246
2:24:12 PM	0.144	-0.144
2:25:12 PM	0.127	-0.127
2:26:12 PM	0.12	-0.12
2:27:12 PM	0.1	-0.1
2:28:12 PM	0.117	-0.117
2:29:12 PM	0.109	-0.109
2:30:12 PM	0.096	-0.096
2:31:12 PM	0.126	-0.126
2:32:12 PM	0.106	-0.106
2:33:12 PM	0.103	-0.103
2:34:12 PM	0.154	-0.154
2:35:12 PM	0.211	-0.211
2:36:12 PM	0.22	-0.22
2:37:12 PM	0.203	-0.203
2:38:12 PM	0.175	-0.175
2:39:12 PM	0.141	-0.141
2:40:12 PM	0.14	-0.14
2:41:12 PM	0.133	-0.133

2:42:12 PM	0.294	-0.294
2:43:12 PM	0.203	-0.203
2:44:12 PM	0.125	-0.125
2:45:12 PM	0.195	-0.195
2:46:12 PM	0.107	-0.107
2:47:12 PM	0.191	-0.191
2:48:12 PM	0.119	-0.119

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_010
Test Start Time	6:33:56 AM
Test Start Date	3/27/2013
Test Length [D:H:M]	0:01:39
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.033
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	1.28
Mass TWA [mg/m3]	0.007
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	99

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_010
Test Start Time	6:37:13 AM
Test Start Date	3/27/2013
Test Length [D:H:M]	0:01:34
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.192
Mass Minimum [mg/m3]	0.109
Mass Maximum [mg/m3]	0.802
Mass TWA [mg/m3]	0.038
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	93

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:33:56 AM	1.28							1.28
6:34:56 AM	0							0
6:35:56 AM	0							0
6:36:56 AM	0							0
6:37:56 AM	0			6:37:13 AM	0.21			-0.21
6:38:56 AM	0.078			6:38:13 AM	0.171			-0.093
6:39:56 AM	0.852			6:39:13 AM	0.31			0.542
6:40:56 AM	0			6:40:13 AM	0.173			-0.173
6:41:56 AM	0			6:41:13 AM	0.149			-0.149
6:42:56 AM	0			6:42:13 AM	0.185			-0.185
6:43:56 AM	0			6:43:13 AM	0.133			-0.133
6:44:56 AM	0			6:44:13 AM	0.142			-0.142
6:45:56 AM	0			6:45:13 AM	0.147			-0.147
6:46:56 AM	0			6:46:13 AM	0.126			-0.126
6:47:56 AM	0			6:47:13 AM	0.157			-0.157
6:48:56 AM	0			6:48:13 AM	0.137			-0.137
6:49:56 AM	0			6:49:13 AM	0.146			-0.146
6:50:56 AM	0.001			6:50:13 AM	0.152			-0.151
6:51:56 AM	0			6:51:13 AM	0.166			-0.166
6:52:56 AM	0			6:52:13 AM	0.197			-0.197
6:53:56 AM	0.536			6:53:13 AM	0.136			0.4
6:54:56 AM	0			6:54:13 AM	0.802			-0.802
6:55:56 AM	0			6:55:13 AM	0.147			-0.147
6:56:56 AM	0			6:56:13 AM	0.127			-0.127
6:57:56 AM	0			6:57:13 AM	0.131			-0.131
6:58:56 AM	0			6:58:13 AM	0.169			-0.169
6:59:56 AM	0			6:59:13 AM	0.16			-0.16
7:00:56 AM	0			7:00:13 AM	0.17			-0.17
7:01:56 AM	0			7:01:13 AM	0.145			-0.145
7:02:56 AM	0			7:02:13 AM	0.16			-0.16
7:03:56 AM	0			7:03:13 AM	0.175			-0.175
7:04:56 AM	0			7:04:13 AM	0.151			-0.151
7:05:56 AM	0			7:05:13 AM	0.147			-0.147
7:06:56 AM	0			7:06:13 AM	0.134			-0.134
7:07:56 AM	0			7:07:13 AM	0.159			-0.159
7:08:56 AM	0			7:08:13 AM	0.122			-0.122
7:09:56 AM	0			7:09:13 AM	0.109			-0.109
7:10:56 AM	0			7:10:13 AM	0.12			-0.12
7:11:56 AM	0			7:11:13 AM	0.133			-0.133
7:12:56 AM	0			7:12:13 AM	0.112			-0.112
7:13:56 AM	0			7:13:13 AM	0.144			-0.144
7:14:56 AM	0			7:14:13 AM	0.125			-0.125
7:15:56 AM	0			7:15:13 AM	0.116			-0.116
7:16:56 AM	0			7:16:13 AM	0.131			-0.131
7:17:56 AM	0			7:17:13 AM	0.135			-0.135
7:18:56 AM	0			7:18:13 AM	0.145			-0.145
7:19:56 AM	0			7:19:13 AM	0.124			-0.124
7:20:56 AM	0			7:20:13 AM	0.148			-0.148
7:21:56 AM	0			7:21:13 AM	0.143			-0.143
7:22:56 AM	0			7:22:13 AM	0.145			-0.145
7:23:56 AM	0			7:23:13 AM	0.166			-0.166

7:24:56 AM	0		7:24:13 AM	0.136	-0.136
7:25:56 AM	0		7:25:13 AM	0.112	-0.112
7:26:56 AM	0		7:26:13 AM	0.118	-0.118
7:27:56 AM	0		7:27:13 AM	0.132	-0.132
7:28:56 AM	0		7:28:13 AM	0.125	-0.125
7:29:56 AM	0		7:29:13 AM	0.138	-0.138
7:30:56 AM	0		7:30:13 AM	0.135	-0.135
7:31:56 AM	0		7:31:13 AM	0.153	-0.153
7:32:56 AM	0.002		7:32:13 AM	0.139	-0.137
7:33:56 AM	0		7:33:13 AM	0.137	-0.137
7:34:56 AM	0		7:34:13 AM	0.124	-0.124
7:35:56 AM	0		7:35:13 AM	0.132	-0.132
7:36:56 AM	0.146		7:36:13 AM	0.123	0.023
7:37:56 AM	0		7:37:13 AM	0.135	-0.135
7:38:56 AM	0.004		7:38:13 AM	0.266	-0.262
7:39:56 AM	0.001		7:39:13 AM	0.236	-0.235
7:40:56 AM	0.002		7:40:13 AM	0.246	-0.244
7:41:56 AM	0.03		7:41:13 AM	0.366	-0.336
7:42:56 AM	0.013		7:42:13 AM	0.171	-0.158
7:43:56 AM	0		7:43:13 AM	0.133	-0.133
7:44:56 AM	0		7:44:13 AM	0.205	-0.205
7:45:56 AM	0.003		7:45:13 AM	0.214	-0.211
7:46:56 AM	0.011		7:46:13 AM	0.285	-0.274
7:47:56 AM	0.004		7:47:13 AM	0.211	-0.207
7:48:56 AM	0.018		7:48:13 AM	0.271	-0.253
7:49:56 AM	0.013		7:49:13 AM	0.265	-0.252
7:50:56 AM	0.004		7:50:13 AM	0.304	-0.3
7:51:56 AM	0.032		7:51:13 AM	0.33	-0.298
7:52:56 AM	0.025		7:52:13 AM	0.292	-0.267
7:53:56 AM	0.006		7:53:13 AM	0.456	-0.45
7:54:56 AM	0.037		7:54:13 AM	0.356	-0.319
7:55:56 AM	0.023		7:55:13 AM	0.49	-0.467
7:56:56 AM	0.063		7:56:13 AM	0.371	-0.308
7:57:56 AM	0.019		7:57:13 AM	0.426	-0.407
7:58:56 AM	0.011		7:58:13 AM	0.233	-0.222
7:59:56 AM	0.004		7:59:13 AM	0.209	-0.205
8:00:56 AM	0		8:00:13 AM	0.26	-0.26
8:01:56 AM	0		8:01:13 AM	0.15	-0.15
8:02:56 AM	0		8:02:13 AM	0.14	-0.14
8:03:56 AM	0		8:03:13 AM	0.19	-0.19
8:04:56 AM	0.001		8:04:13 AM	0.191	-0.19
8:05:56 AM	0.003		8:05:13 AM	0.152	-0.149
8:06:56 AM	0		8:06:13 AM	0.228	-0.228
8:07:56 AM	0.02		8:07:13 AM	0.28	-0.26
8:08:56 AM	0.001		8:08:13 AM	0.172	-0.171
8:09:56 AM	0		8:09:13 AM	0.159	-0.159
8:10:56 AM	0.001				0.001
8:11:56 AM	0				0

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_011
Test Start Time	9:11:18 AM
Test Start Date	3/29/2013
Test Length [D:H:M]	0:02:10
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.042
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	1.91
Mass TWA [mg/m3]	0.011
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	130

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9:11:18 AM	0.514		
9:12:18 AM	0		
9:13:18 AM	0.006		
9:14:18 AM	0.012		
9:15:18 AM	0.004		
9:16:18 AM	0.003		
9:17:18 AM	0		
9:18:18 AM	0		
9:19:18 AM	0		
9:20:18 AM	0.068		
9:21:18 AM	1.91		
9:22:18 AM	0		
9:23:18 AM	0		
9:24:18 AM	0		
9:25:18 AM	0		
9:26:18 AM	0.001		
9:27:18 AM	0.034		
9:28:18 AM	0		
9:29:18 AM	0		
9:30:18 AM	0.097		
9:31:18 AM	0.02		
9:32:18 AM	0.002		
9:33:18 AM	0.001		
9:34:18 AM	0		
9:35:18 AM	0		
9:36:18 AM	0		
9:37:18 AM	0.001		
9:38:18 AM	0.049		
9:39:18 AM	0.398		
9:40:18 AM	0.159		
9:41:18 AM	0.005		
9:42:18 AM	0.002		
9:43:18 AM	0.001		
9:44:18 AM	0		
9:45:18 AM	0.006		
9:46:18 AM	0.072		
9:47:18 AM	0.025		
9:48:18 AM	0		
9:49:18 AM	0.021		
9:50:18 AM	0.001		
9:51:18 AM	0.001		
9:52:18 AM	0.016		
9:53:18 AM	0.249		
9:54:18 AM	0		
9:55:18 AM	0.02		
9:56:18 AM	0		
9:57:18 AM	0		
9:58:18 AM	0		
9:59:18 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_011
Test Start Time	9:09:54 AM
Test Start Date	3/29/2013
Test Length [D:H:M]	0:11:01
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.114
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.373
Mass TWA [mg/m3]	0.017
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	91

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
9:09:54 AM	0.354			-0.354
9:10:54 AM	0.201			-0.201
9:11:54 AM	0.124			0.39
9:12:54 AM	0.137			-0.137
9:13:54 AM	0.186			-0.18
9:14:54 AM	0.111			-0.099
9:15:54 AM	0.107			-0.103
9:16:54 AM	0.092			-0.089
9:17:54 AM	0.11			-0.11
9:18:54 AM	0.116			-0.116
9:19:54 AM	0.117			-0.117
9:20:54 AM	0.125			-0.057
9:21:54 AM	0.186			1.724
9:22:54 AM	0.199			-0.199
9:23:54 AM	0.129			-0.129
9:24:54 AM	0.106			-0.106
9:25:54 AM	0.173			-0.173
9:26:54 AM	0.169			-0.168
9:27:54 AM	0.13			-0.096
9:28:54 AM	0.138			-0.138
9:29:54 AM	0.152			-0.152
9:30:54 AM	0.373			-0.276
9:31:54 AM	0.168			-0.148
9:32:54 AM	0.152			-0.15
9:33:54 AM	0.12			-0.119
9:34:54 AM	0.152			-0.152
9:35:54 AM	0.117			-0.117
9:36:54 AM	0.12			-0.12
9:37:54 AM	0.149			-0.148
9:38:54 AM	0.136			-0.087
9:39:54 AM	0.15			0.248
9:40:54 AM	0.156			0.003
9:41:54 AM	0.136			-0.131
9:42:54 AM	0.139			-0.137
9:43:54 AM	0.123			-0.122
9:44:54 AM	0.101			-0.101
9:45:54 AM	0.111			-0.105
9:46:54 AM	0.141			-0.069
9:47:54 AM	0.152			-0.127
9:48:54 AM	0.169			-0.169
9:49:54 AM	0.127			-0.106
9:50:54 AM	0.119			-0.118
9:51:54 AM	0.077		Flow Error	-0.076
9:52:54 AM	0.077		Flow Error	-0.061
9:53:54 AM	0.07		Flow Error	0.179
9:54:54 AM	0.072		Flow Error	-0.072
9:55:54 AM	0.072		Flow Error	-0.052
9:56:54 AM	0.073		Flow Error	-0.073
9:57:54 AM	0			0
9:58:54 AM	0.072			-0.072
9:59:54 AM	0.069		Flow Error	-0.069

10:00:18 AM	0	10:00:54 AM	0.07	Flow Error -0.07
10:01:18 AM	0.005	10:01:54 AM	0.069	Flow Error -0.064
10:02:18 AM	0.019	10:02:54 AM	0.067	Flow Error -0.048
10:03:18 AM	0	10:03:54 AM	0.066	Flow Error -0.066
10:04:18 AM	0	10:04:54 AM	0	0
10:05:18 AM	0	10:05:54 AM	0.103	-0.103
10:06:18 AM	0	10:06:54 AM	0.103	-0.103
10:07:18 AM	0	10:07:54 AM	0.101	-0.101
10:08:18 AM	0.001	10:08:54 AM	0.099	-0.098
10:09:18 AM	0	10:09:54 AM	0.097	-0.097
10:10:18 AM	0	10:10:54 AM	0.094	-0.094
10:11:18 AM	0	10:11:54 AM	0.094	-0.094
10:12:18 AM	0.574	10:12:54 AM	0.094	0.48
10:13:18 AM	0.003	10:13:54 AM	0.094	-0.091
10:14:18 AM	0	10:14:54 AM	0.094	-0.094
10:15:18 AM	0.006	10:15:54 AM	0.095	-0.089
10:16:18 AM	0.004	10:16:54 AM	0.096	-0.092
10:17:18 AM	0.066	10:17:54 AM	0.094	-0.028
10:18:18 AM	0.057	10:18:54 AM	0.095	-0.038
10:19:18 AM	0.008	10:19:54 AM	0.092	-0.084
10:20:18 AM	0.012	10:20:54 AM	0.093	-0.081
10:21:18 AM	0	10:21:54 AM	0.093	-0.093
10:22:18 AM	0.012	10:22:54 AM	0.094	-0.082
10:23:18 AM	0.014	10:23:54 AM	0.095	-0.081
10:24:18 AM	0.001	10:24:54 AM	0.092	-0.091
10:25:18 AM	0.002	10:25:54 AM	0.093	-0.091
10:26:18 AM	0.056	10:26:54 AM	0.09	-0.034
10:27:18 AM	0.002	10:27:54 AM	0.089	-0.087
10:28:18 AM	0	10:28:54 AM	0.088	-0.088
10:29:18 AM	0	10:29:54 AM	0.088	-0.088
10:30:18 AM	0	10:30:54 AM	0.087	-0.087
10:31:18 AM	0	10:31:54 AM	0.09	-0.09
10:32:18 AM	0	10:32:54 AM	0.089	-0.089
10:33:18 AM	0	10:33:54 AM	0.088	-0.088
10:34:18 AM	0	10:34:54 AM	0.09	-0.09
10:35:18 AM	0	10:35:54 AM	0.089	-0.089
10:36:18 AM	0.003	10:36:54 AM	0.088	-0.085
10:37:18 AM	0.003	10:37:54 AM	0.09	-0.087
10:38:18 AM	0.007	10:38:54 AM	0.09	-0.083
10:39:18 AM	0	10:39:54 AM	0.09	-0.09
10:40:18 AM	0.001			0.001
10:41:18 AM	0.016			0.016
10:42:18 AM	0.083			0.083
10:43:18 AM	0.023			0.023
10:44:18 AM	0.008			0.008
10:45:18 AM	0.118			0.118
10:46:18 AM	0.009			0.009
10:47:18 AM	0.012			0.012
10:48:18 AM	0.007			0.007
10:49:18 AM	0			0
10:50:18 AM	0.093			0.093
10:51:18 AM	0.029			0.029
10:52:18 AM	0.006			0.006
10:53:18 AM	0			0
10:54:18 AM	0			0
10:55:18 AM	0.089			0.089
10:56:18 AM	0.001			0.001
10:57:18 AM	0.04			0.04
10:58:18 AM	0			0
10:59:18 AM	0			0
11:00:18 AM	0			0
11:01:18 AM	0.001			0.001
11:02:18 AM	0.104			0.104
11:03:18 AM	0			0
11:04:18 AM	0			0
11:05:18 AM	0.012			0.012
11:06:18 AM	0.002			0.002
11:07:18 AM	0.027			0.027
11:08:18 AM	0.008			0.008
11:09:18 AM	0.004			0.004
11:10:18 AM	0			0
11:11:18 AM	0			0

11:12:18 AM	0.002	0.002
11:13:18 AM	0.021	0.021
11:14:18 AM	0.044	0.044
11:15:18 AM	0	0
11:16:18 AM	0.001	0.001
11:17:18 AM	0.032	0.032
11:18:18 AM	0.008	0.008
11:19:18 AM	0.003	0.003
11:20:18 AM	0.081	0.081
11:21:18 AM	0.514	0.514
11:22:18 AM	0	0
11:23:18 AM	0.006	0.006
11:24:18 AM	0.012	0.012
11:25:18 AM	0.004	0.004
11:26:18 AM	0.003	0.003
11:27:18 AM	0	0
11:28:18 AM	0	0
11:29:18 AM	0	0
11:30:18 AM	0.068	0.068
11:31:18 AM	1.91	1.91
11:32:18 AM	0	0
11:33:18 AM	0	0
11:34:18 AM	0	0
11:35:18 AM	0	0
11:36:18 AM	0.001	0.001
11:37:18 AM	0.034	0.034
11:38:18 AM	0	0
11:39:18 AM	0	0
11:40:18 AM	0.097	0.097
11:41:18 AM	0.02	0.02
11:42:18 AM	0.002	0.002
11:43:18 AM	0.001	0.001
11:44:18 AM	0	0
11:45:18 AM	0	0
11:46:18 AM	0	0
11:47:18 AM	0.001	0.001
11:48:18 AM	0.049	0.049
11:49:18 AM	0.398	0.398
11:50:18 AM	0.159	0.159
11:51:18 AM	0.005	0.005
11:52:18 AM	0.002	0.002
11:53:18 AM	0.001	0.001
11:54:18 AM	0	0
11:55:18 AM	0.006	0.006
11:56:18 AM	0.072	0.072
11:57:18 AM	0.025	0.025
11:58:18 AM	0	0
11:59:18 AM	0.021	0.021
12:00:18 PM	0.001	0.001
12:01:18 PM	0.001	0.001
12:02:18 PM	0.016	0.016
12:03:18 PM	0.249	0.249
12:04:18 PM	0	0
12:05:18 PM	0.02	0.02
12:06:18 PM	0	0
12:07:18 PM	0	0
12:08:18 PM	0	0
12:09:18 PM	0	0
12:10:18 PM	0	0
12:11:18 PM	0.005	0.005
12:12:18 PM	0.019	0.019
12:13:18 PM	0	0
12:14:18 PM	0	0
12:15:18 PM	0	0
12:16:18 PM	0	0
12:17:18 PM	0	0
12:18:18 PM	0.001	0.001
12:19:18 PM	0	0
12:20:18 PM	0	0
12:21:18 PM	0	0
12:22:18 PM	0.574	0.574
12:23:18 PM	0.003	0.003

12:24:18 PM	0	0
12:25:18 PM	0.006	0.006
12:26:18 PM	0.004	0.004
12:27:18 PM	0.066	0.066
12:28:18 PM	0.057	0.057
12:29:18 PM	0.008	0.008
12:30:18 PM	0.012	0.012
12:31:18 PM	0	0
12:32:18 PM	0.012	0.012
12:33:18 PM	0.014	0.014
12:34:18 PM	0.001	0.001
12:35:18 PM	0.002	0.002
12:36:18 PM	0.056	0.056
12:37:18 PM	0.002	0.002
12:38:18 PM	0	0
12:39:18 PM	0	0
12:40:18 PM	0	0
12:41:18 PM	0	0
12:42:18 PM	0	0
12:43:18 PM	0	0
12:44:18 PM	0	0
12:45:18 PM	0	0
12:46:18 PM	0.003	0.003
12:47:18 PM	0.003	0.003
12:48:18 PM	0.007	0.007
12:49:18 PM	0	0
12:50:18 PM	0.001	0.001
12:51:18 PM	0.016	0.016
12:52:18 PM	0.083	0.083
12:53:18 PM	0.023	0.023
12:54:18 PM	0.008	0.008
12:55:18 PM	0.118	0.118
12:56:18 PM	0.009	0.009
12:57:18 PM	0.012	0.012
12:58:18 PM	0.007	0.007
12:59:18 PM	0	0
1:00:18 PM	0.093	0.093
1:01:18 PM	0.029	0.029
1:02:18 PM	0.006	0.006
1:03:18 PM	0	0
1:04:18 PM	0	0
1:05:18 PM	0.089	0.089
1:06:18 PM	0.001	0.001
1:07:18 PM	0.04	0.04
1:08:18 PM	0	0
1:09:18 PM	0	0
1:10:18 PM	0	0
1:11:18 PM	0.001	0.001
1:12:18 PM	0.104	0.104
1:13:18 PM	0	0
1:14:18 PM	0	0
1:15:18 PM	0.012	0.012
1:16:18 PM	0.002	0.002
1:17:18 PM	0.027	0.027
1:18:18 PM	0.008	0.008
1:19:18 PM	0.004	0.004
1:20:18 PM	0	0
1:21:18 PM	0	0
1:22:18 PM	0.002	0.002
1:23:18 PM	0.021	0.021
1:24:18 PM	0.044	0.044
1:25:18 PM	0	0
1:26:18 PM	0.001	0.001
1:27:18 PM	0.032	0.032
1:28:18 PM	0.008	0.008
1:29:18 PM	0.003	0.003
1:30:18 PM	0.081	0.081

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_012
Test Start Time	5:54:04 AM
Test Start Date	3/30/2013
Test Length [D:H:M]	0:04:48
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.009
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.795
Mass TWA [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	288

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_012
Test Start Time	5:56:59 AM
Test Start Date	3/30/2013
Test Length [D:H:M]	0:04:45
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.148
Mass Minimum [mg/m3]	0.078
Mass Maximum [mg/m3]	1.06
Mass TWA [mg/m3]	0.088
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	281

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
5:54:04 AM	0.331							0.331
5:55:04 AM	0.006							0.006
5:56:04 AM	0			5:56:59 AM	0.173			-0.173
5:57:04 AM	0			5:57:59 AM	0.113			-0.113
5:58:04 AM	0			5:58:59 AM	0.109			-0.109
5:59:04 AM	0			5:59:59 AM	0.113			-0.113
6:00:04 AM	0			6:00:59 AM	0.108			-0.108
6:01:04 AM	0			6:01:59 AM	0.104			-0.104
6:02:04 AM	0			6:02:59 AM	0.104			-0.104
6:03:04 AM	0			6:03:59 AM	0.124			-0.124
6:04:04 AM	0			6:04:59 AM	0.107			-0.107
6:05:04 AM	0			6:05:59 AM	0.101			-0.101
6:06:04 AM	0.158			6:06:59 AM	0.109			0.049
6:07:04 AM	0.084			6:07:59 AM	0.104			-0.02
6:08:04 AM	0			6:08:59 AM	0.118			-0.118
6:09:04 AM	0			6:09:59 AM	0.123			-0.123
6:10:04 AM	0			6:10:59 AM	0.109			-0.109
6:11:04 AM	0			6:11:59 AM	0.102			-0.102
6:12:04 AM	0			6:12:59 AM	0.119			-0.119
6:13:04 AM	0			6:13:59 AM	0.105			-0.105
6:14:04 AM	0			6:14:59 AM	0.109			-0.109
6:15:04 AM	0			6:15:59 AM	0.121			-0.121
6:16:04 AM	0			6:16:59 AM	0.111			-0.111
6:17:04 AM	0			6:17:59 AM	0.111			-0.111
6:18:04 AM	0			6:18:59 AM	0.125			-0.125
6:19:04 AM	0.014			6:19:59 AM	0.118			-0.104
6:20:04 AM	0			6:20:59 AM	0.117			-0.117
6:21:04 AM	0			6:21:59 AM	0.127			-0.127
6:22:04 AM	0.044			6:22:59 AM	0.121			-0.077
6:23:04 AM	0.114			6:23:59 AM	0.122			-0.008
6:24:04 AM	0			6:24:59 AM	0.13			-0.13
6:25:04 AM	0			6:25:59 AM	0.121			-0.121
6:26:04 AM	0			6:26:59 AM	0.123			-0.123
6:27:04 AM	0			6:27:59 AM	0.125			-0.125
6:28:04 AM	0			6:28:59 AM	0.115			-0.115
6:29:04 AM	0			6:29:59 AM	0.111			-0.111
6:30:04 AM	0			6:30:59 AM	0.131			-0.131
6:31:04 AM	0.061			6:31:59 AM	0.124			-0.063
6:32:04 AM	0			6:32:59 AM	0.104			-0.104
6:33:04 AM	0			6:33:59 AM	0.105			-0.105
6:34:04 AM	0			6:34:59 AM	0.104			-0.104
6:35:04 AM	0			6:35:59 AM	0.106			-0.106
6:36:04 AM	0.005			6:36:59 AM	0.168			-0.163
6:37:04 AM	0			6:37:59 AM	0.188			-0.188
6:38:04 AM	0			6:38:59 AM	0.124			-0.124
6:39:04 AM	0			6:39:59 AM	0.133			-0.133
6:40:04 AM	0			6:40:59 AM	0.123			-0.123
6:41:04 AM	0			6:41:59 AM	0.124			-0.124
6:42:04 AM	0			6:42:59 AM	0.155			-0.155
6:43:04 AM	0			6:43:59 AM	0.197			-0.197
6:44:04 AM	0.059			6:44:59 AM	0.158			-0.099

6:45:04 AM	0	6:45:59 AM	0.152	-0.152
6:46:04 AM	0	6:46:59 AM	0.168	-0.168
6:47:04 AM	0	6:47:59 AM	0.141	-0.141
6:48:04 AM	0	6:48:59 AM	0.164	-0.164
6:49:04 AM	0	6:49:59 AM	0.136	-0.136
6:50:04 AM	0	6:50:59 AM	0.126	-0.126
6:51:04 AM	0	6:51:59 AM	0.148	-0.148
6:52:04 AM	0	6:52:59 AM	0.13	-0.13
6:53:04 AM	0	6:53:59 AM	0.139	-0.139
6:54:04 AM	0	6:54:59 AM	0.112	-0.112
6:55:04 AM	0	6:55:59 AM	0.147	-0.147
6:56:04 AM	0	6:56:59 AM	0.123	-0.123
6:57:04 AM	0	6:57:59 AM	0.123	-0.123
6:58:04 AM	0.001	6:58:59 AM	0.125	-0.124
6:59:04 AM	0	6:59:59 AM	0.111	-0.111
7:00:04 AM	0	7:00:59 AM	0.114	-0.114
7:01:04 AM	0	7:01:59 AM	0.108	-0.108
7:02:04 AM	0	7:02:59 AM	0.102	-0.102
7:03:04 AM	0	7:03:59 AM	0.158	-0.158
7:04:04 AM	0	7:04:59 AM	0.14	-0.14
7:05:04 AM	0.173	7:05:59 AM	0.119	0.054
7:06:04 AM	0	7:06:59 AM	0.119	-0.119
7:07:04 AM	0	7:07:59 AM	0.165	-0.165
7:08:04 AM	0	7:08:59 AM	0.201	-0.201
7:09:04 AM	0.002	7:09:59 AM	0.128	-0.126
7:10:04 AM	0	7:10:59 AM	0.112	-0.112
7:11:04 AM	0	7:11:59 AM	0.131	-0.131
7:12:04 AM	0	7:12:59 AM	0.104	-0.104
7:13:04 AM	0	7:13:59 AM	0.119	-0.119
7:14:04 AM	0	7:14:59 AM	0.101	-0.101
7:15:04 AM	0	7:15:59 AM	0.114	-0.114
7:16:04 AM	0	7:16:59 AM	0.121	-0.121
7:17:04 AM	0	7:17:59 AM	0.142	-0.142
7:18:04 AM	0	7:18:59 AM	0.119	-0.119
7:19:04 AM	0	7:19:59 AM	0.136	-0.136
7:20:04 AM	0	7:20:59 AM	0.127	-0.127
7:21:04 AM	0	7:21:59 AM	0.136	-0.136
7:22:04 AM	0	7:22:59 AM	0.135	-0.135
7:23:04 AM	0	7:23:59 AM	0.249	-0.249
7:24:04 AM	0	7:24:59 AM	0.136	-0.136
7:25:04 AM	0	7:25:59 AM	0.114	-0.114
7:26:04 AM	0	7:26:59 AM	0.151	-0.151
7:27:04 AM	0	7:27:59 AM	0.107	-0.107
7:28:04 AM	0.003	7:28:59 AM	0.179	-0.176
7:29:04 AM	0	7:29:59 AM	0.143	-0.143
7:30:04 AM	0	7:30:59 AM	0.189	-0.189
7:31:04 AM	0	7:31:59 AM	0.117	-0.117
7:32:04 AM	0	7:32:59 AM	0.121	-0.121
7:33:04 AM	0	7:33:59 AM	0.125	-0.125
7:34:04 AM	0	7:34:59 AM	0.109	-0.109
7:35:04 AM	0	7:35:59 AM	0.1	-0.1
7:36:04 AM	0	7:36:59 AM	0.1	-0.1
7:37:04 AM	0	7:37:59 AM	0.1	-0.1
7:38:04 AM	0	7:38:59 AM	0.113	-0.113
7:39:04 AM	0	7:39:59 AM	0.105	-0.105
7:40:04 AM	0	7:40:59 AM	0.105	-0.105
7:41:04 AM	0	7:41:59 AM	0.104	-0.104
7:42:04 AM	0	7:42:59 AM	0.106	-0.106
7:43:04 AM	0	7:43:59 AM	0.101	-0.101
7:44:04 AM	0	7:44:59 AM	0.104	-0.104
7:45:04 AM	0	7:45:59 AM	0.104	-0.104
7:46:04 AM	0	7:46:59 AM	0.11	-0.11
7:47:04 AM	0	7:47:59 AM	0.105	-0.105
7:48:04 AM	0	7:48:59 AM	0.096	-0.096
7:49:04 AM	0	7:49:59 AM	0.108	-0.108
7:50:04 AM	0	7:50:59 AM	0.116	-0.116
7:51:04 AM	0	7:51:59 AM	0.138	-0.138
7:52:04 AM	0	7:52:59 AM	0.135	-0.135
7:53:04 AM	0	7:53:59 AM	0.151	-0.151
7:54:04 AM	0.204	7:54:59 AM	0.198	0.006
7:55:04 AM	0	7:55:59 AM	0.125	-0.125
7:56:04 AM	0	7:56:59 AM	0.129	-0.129

7:57:04 AM	0		7:57:59 AM	0.128	-0.128
7:58:04 AM	0		7:58:59 AM	0.129	-0.129
7:59:04 AM	0		7:59:59 AM	0.126	-0.126
8:00:04 AM	0		8:00:59 AM	0.145	-0.145
8:01:04 AM	0		8:01:59 AM	0.147	-0.147
8:02:04 AM	0		8:02:59 AM	0.132	-0.132
8:03:04 AM	0		8:03:59 AM	0.133	-0.133
8:04:04 AM	0		8:04:59 AM	0.125	-0.125
8:05:04 AM	0		8:05:59 AM	0.148	-0.148
8:06:04 AM	0		8:06:59 AM	0.117	-0.117
8:07:04 AM	0		8:07:59 AM	0.187	-0.187
8:08:04 AM	0.001		8:08:59 AM	0.22	-0.219
8:09:04 AM	0		8:09:59 AM	0.165	-0.165
8:10:04 AM	0		8:10:59 AM	0.159	-0.159
8:11:04 AM	0		8:11:59 AM	0.149	-0.149
8:12:04 AM	0		8:12:59 AM	0.158	-0.158
8:13:04 AM	0		8:13:59 AM	0.131	-0.131
8:14:04 AM	0		8:14:59 AM	0.127	-0.127
8:15:04 AM	0		8:15:59 AM	0.226	-0.226
8:16:04 AM	0		8:16:59 AM	0.141	-0.141
8:17:04 AM	0		8:17:59 AM	0.14	-0.14
8:18:04 AM	0		8:18:59 AM	0.148	-0.148
8:19:04 AM	0		8:19:59 AM	0.13	-0.13
8:20:04 AM	0		8:20:59 AM	0.17	-0.17
8:21:04 AM	0		8:21:59 AM	0.161	-0.161
8:22:04 AM	0		8:22:59 AM	0.139	-0.139
8:23:04 AM	0.001		8:23:59 AM	0.135	-0.134
8:24:04 AM	0		8:24:59 AM	0.142	-0.142
8:25:04 AM	0.005		8:25:59 AM	0.145	-0.14
8:26:04 AM	0		8:26:59 AM	0.133	-0.133
8:27:04 AM	0		8:27:59 AM	0.14	-0.14
8:28:04 AM	0		8:28:59 AM	0.142	-0.142
8:29:04 AM	0		8:29:59 AM	0.212	-0.212
8:30:04 AM	0		8:30:59 AM	0.116	-0.116
8:31:04 AM	0		8:31:59 AM	0.123	-0.123
8:32:04 AM	0		8:32:59 AM	0.124	-0.124
8:33:04 AM	0		8:33:59 AM	0.134	-0.134
8:34:04 AM	0		8:34:59 AM	0.159	-0.159
8:35:04 AM	0		8:35:59 AM	0.148	-0.148
8:36:04 AM	0		8:36:59 AM	0.128	-0.128
8:37:04 AM	0		8:37:59 AM	0.153	-0.153
8:38:04 AM	0		8:38:59 AM	0.148	-0.148
8:39:04 AM	0		8:39:59 AM	0.147	-0.147
8:40:04 AM	0		8:40:59 AM	0.142	-0.142
8:41:04 AM	0		8:41:59 AM	0.13	-0.13
8:42:04 AM	0		8:42:59 AM	0.138	-0.138
8:43:04 AM	0		8:43:59 AM	0.196	-0.196
8:44:04 AM	0		8:44:59 AM	0.133	-0.133
8:45:04 AM	0		8:45:59 AM	0.152	-0.152
8:46:04 AM	0		8:46:59 AM	0.139	-0.139
8:47:04 AM	0.001		8:47:59 AM	0.137	-0.136
8:48:04 AM	0		8:48:59 AM	0.156	-0.156
8:49:04 AM	0		8:49:59 AM	0.142	-0.142
8:50:04 AM	0		8:50:59 AM	0.117	-0.117
8:51:04 AM	0		8:51:59 AM	0.43	-0.43
8:52:04 AM	0.001		8:52:59 AM	0.129	-0.128
8:53:04 AM	0		8:53:59 AM	0.178	-0.178
8:54:04 AM	0.011		8:54:59 AM	0.154	-0.143
8:55:04 AM	0		8:55:59 AM	0.737	-0.737
8:56:04 AM	0		8:56:59 AM	0.2	-0.2
8:57:04 AM	0		8:57:59 AM	0.18	-0.18
8:58:04 AM	0		8:58:59 AM	0.243	-0.243
8:59:04 AM	0		8:59:59 AM	0.228	-0.228
9:00:04 AM	0		9:00:59 AM	0.199	-0.199
9:01:04 AM	0		9:01:59 AM	0.146	-0.146
9:02:04 AM	0		9:02:59 AM	0.164	-0.164
9:03:04 AM	0		9:03:59 AM	0.136	-0.136
9:04:04 AM	0		9:04:59 AM	0.174	-0.174
9:05:04 AM	0		9:05:59 AM	0.165	-0.165
9:06:04 AM	0		9:06:59 AM	0.151	-0.151
9:07:04 AM	0		9:07:59 AM	0.115	-0.115
9:08:04 AM	0		9:08:59 AM	0.11	-0.11

9:09:04 AM	0		9:09:59 AM	0.11	-0.11
9:10:04 AM	0		9:10:59 AM	0.115	-0.115
9:11:04 AM	0		9:11:59 AM	0.107	-0.107
9:12:04 AM	0		9:12:59 AM	0.122	-0.122
9:13:04 AM	0		9:13:59 AM	0.133	-0.133
9:14:04 AM	0		9:14:59 AM	0.117	-0.117
9:15:04 AM	0		9:15:59 AM	0.119	-0.119
9:16:04 AM	0		9:16:59 AM	0.17	-0.17
9:17:04 AM	0		9:17:59 AM	0.17	-0.17
9:18:04 AM	0		9:18:59 AM	0.164	-0.164
9:19:04 AM	0		9:19:59 AM	0.144	-0.144
9:20:04 AM	0		9:20:59 AM	0.111	-0.111
9:21:04 AM	0		9:21:59 AM	0.136	-0.136
9:22:04 AM	0.022		9:22:59 AM	0.239	-0.217
9:23:04 AM	0		9:23:59 AM	0.2	-0.2
9:24:04 AM	0		9:24:59 AM	0.207	-0.207
9:25:04 AM	0		9:25:59 AM	0.201	-0.201
9:26:04 AM	0.022		9:26:59 AM	0.206	-0.184
9:27:04 AM	0.001		9:27:59 AM	0.162	-0.161
9:28:04 AM	0.015		9:28:59 AM	0.233	-0.218
9:29:04 AM	0		9:29:59 AM	0.193	-0.193
9:30:04 AM	0.001		9:30:59 AM	0.184	-0.183
9:31:04 AM	0		9:31:59 AM	0.182	-0.182
9:32:04 AM	0.001		9:32:59 AM	0.153	-0.152
9:33:04 AM	0		9:33:59 AM	0.166	-0.166
9:34:04 AM	0		9:34:59 AM	0.137	-0.137
9:35:04 AM	0		9:35:59 AM	0.274	-0.274
9:36:04 AM	0.062		9:36:59 AM	0.184	-0.122
9:37:04 AM	0		9:37:59 AM	0.117	-0.117
9:38:04 AM	0.01		9:38:59 AM	0.105	-0.095
9:39:04 AM	0		9:39:59 AM	0.165	-0.165
9:40:04 AM	0		9:40:59 AM	0.201	-0.201
9:41:04 AM	0		9:41:59 AM	0.189	-0.189
9:42:04 AM	0		9:42:59 AM	0.146	-0.146
9:43:04 AM	0		9:43:59 AM	0.125	-0.125
9:44:04 AM	0		9:44:59 AM	0.123	-0.123
9:45:04 AM	0		9:45:59 AM	0.137	-0.137
9:46:04 AM	0		9:46:59 AM	0.141	-0.141
9:47:04 AM	0		9:47:59 AM	0.131	-0.131
9:48:04 AM	0		9:48:59 AM	0.141	-0.141
9:49:04 AM	0		9:49:59 AM	0.129	-0.129
9:50:04 AM	0		9:50:59 AM	0.107	-0.107
9:51:04 AM	0		9:51:59 AM	0.133	-0.133
9:52:04 AM	0		9:52:59 AM	0.165	-0.165
9:53:04 AM	0		9:53:59 AM	0.107	-0.107
9:54:04 AM	0		9:54:59 AM	0.084	-0.084
9:55:04 AM	0		9:55:59 AM	0.117	-0.117
9:56:04 AM	0		9:56:59 AM	0.137	-0.137
9:57:04 AM	0		9:57:59 AM	0.145	-0.145
9:58:04 AM	0		9:58:59 AM	0.141	-0.141
9:59:04 AM	0		9:59:59 AM	0.142	-0.142
10:00:04 AM	0		10:00:59 AM	0.187	-0.187
10:01:04 AM	0		10:01:59 AM	0.156	-0.156
10:02:04 AM	0.01		10:02:59 AM	0.122	-0.112
10:03:04 AM	0.027		10:03:59 AM	0.261	-0.234
10:04:04 AM	0.003		10:04:59 AM	0.262	-0.259
10:05:04 AM	0		10:05:59 AM	0.93	-0.93
10:06:04 AM	0		10:06:59 AM	1.06	-1.06
10:07:04 AM	0		10:07:59 AM	0.125	-0.125
10:08:04 AM	0		10:08:59 AM	0.394	-0.394
10:09:04 AM	0		10:09:59 AM	0.211	-0.211
10:10:04 AM	0.795		10:10:59 AM	0.123	0.672
10:11:04 AM	0.223		10:11:59 AM	0.199	0.024
10:12:04 AM	0		10:12:59 AM	0.169	-0.169
10:13:04 AM	0.092		10:13:59 AM	0.116	-0.024
10:14:04 AM	0.028		10:14:59 AM	0.094	-0.066
10:15:04 AM	0		10:15:59 AM	0.115	-0.115
10:16:04 AM	0		10:16:59 AM	0.1	-0.1
10:17:04 AM	0		10:17:59 AM	0.087	-0.087
10:18:04 AM	0		10:18:59 AM	0.079	-0.079
10:19:04 AM	0.003		10:19:59 AM	0.089	-0.086
10:20:04 AM	0.008		10:20:59 AM	0.11	-0.102

10:21:04 AM	0	10:21:59 AM	0.093	-0.093
10:22:04 AM	0.001	10:22:59 AM	0.079	-0.078
10:23:04 AM	0	10:23:59 AM	0.078	-0.078
10:24:04 AM	0	10:24:59 AM	0.078	-0.078
10:25:04 AM	0	10:25:59 AM	0.101	-0.101
10:26:04 AM	0.011	10:26:59 AM	0.108	-0.097
10:27:04 AM	0	10:27:59 AM	0.119	-0.119
10:28:04 AM	0	10:28:59 AM	0.088	-0.088
10:29:04 AM	0	10:29:59 AM	0.093	-0.093
10:30:04 AM	0	10:30:59 AM	0.107	-0.107
10:31:04 AM	0	10:31:59 AM	0.176	-0.176
10:32:04 AM	0	10:32:59 AM	0.206	-0.206
10:33:04 AM	0	10:33:59 AM	0.122	-0.122
10:34:04 AM	0	10:34:59 AM	0.118	-0.118
10:35:04 AM	0	10:35:59 AM	0.159	-0.159
10:36:04 AM	0	10:36:59 AM	0.177	-0.177
10:37:04 AM	0			0
10:38:04 AM	0			0
10:39:04 AM	0			0
10:40:04 AM	0			0
10:41:04 AM	0.005			0.005

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_014
Test Start Time	6:19:51 AM
Test Start Date	4/1/2013
Test Length [D:H:M]	0:03:14
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.214
Mass Minimum [mg/m3]	0.07
Mass Maximum [mg/m3]	1.25
Mass TWA [mg/m3]	0.087
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	194

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:19:51 AM	0.191		
6:20:51 AM	0.07		
6:21:51 AM	0.058		
6:22:51 AM	0.052		
6:23:51 AM	0.092		
6:24:51 AM	0.117		
6:25:51 AM	0.109		
6:26:51 AM	0.066		
6:27:51 AM	0.018		
6:28:51 AM	0.037		
6:29:51 AM	0.061		
6:30:51 AM	0.058		
6:31:51 AM	0.036		
6:32:51 AM	0.133		
6:33:51 AM	0.177		
6:34:51 AM	0.066		
6:35:51 AM	0.029		
6:36:51 AM	0.041		
6:37:51 AM	0.011		
6:38:51 AM	0.031		
6:39:51 AM	0.028		
6:40:51 AM	0.059		
6:41:51 AM	0.055		
6:42:51 AM	0.057		
6:43:51 AM	0.017		
6:44:51 AM	0.016		
6:45:51 AM	0.008		
6:46:51 AM	0.007		
6:47:51 AM	0.008		
6:48:51 AM	0.029		
6:49:51 AM	0.013		
6:50:51 AM	0.009		
6:51:51 AM	0.005		
6:52:51 AM	0.031		
6:53:51 AM	0.029		
6:54:51 AM	0.048		
6:55:51 AM	0.053		
6:56:51 AM	0.032		
6:57:51 AM	0.033		
6:58:51 AM	0.018		
6:59:51 AM	0.019		
7:00:51 AM	0.015		
7:01:51 AM	0.023		
7:02:51 AM	0.038		
7:03:51 AM	0.038		
7:04:51 AM	0.029		
7:05:51 AM	0.013		
7:06:51 AM	0.012		
7:07:51 AM	0.001		
7:08:51 AM	0.009		
7:09:51 AM	0.006		
7:10:51 AM	0.009		
7:11:51 AM	0.018		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_013
Test Start Time	6:11:50 AM
Test Start Date	4/1/2013
Test Length [D:H:M]	0:02:04
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.241
Mass Minimum [mg/m3]	0.179
Mass Maximum [mg/m3]	0.654
Mass TWA [mg/m3]	0.062
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	122

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Difference
6:11:50 AM	0.654			-0.654
6:12:50 AM	0.307			-0.307
6:13:50 AM	0.298			-0.298
6:14:50 AM	0.246			-0.246
6:15:50 AM	0.315			-0.315
6:16:50 AM	0.304			-0.304
6:17:50 AM	0.353			-0.353
6:18:50 AM	0.338			-0.338
6:19:50 AM	0.276			-0.085
6:20:50 AM	0.281			-0.211
6:21:50 AM	0.284			-0.226
6:22:50 AM	0.237			-0.185
6:23:50 AM	0.283			-0.191
6:24:50 AM	0.321			-0.204
6:25:50 AM	0.224			-0.115
6:26:50 AM	0.326			-0.26
6:27:50 AM	0.239			-0.221
6:28:50 AM	0.229			-0.192
6:29:50 AM	0.219			-0.158
6:30:50 AM	0.225			-0.167
6:31:50 AM	0.237			-0.201
6:32:50 AM	0.247			-0.114
6:33:50 AM	0.299			-0.122
6:34:50 AM	0.232			-0.166
6:35:50 AM	0.223			-0.194
6:36:50 AM	0.204			-0.163
6:37:50 AM	0.213			-0.202
6:38:50 AM	0.225			-0.194
6:39:50 AM	0.264			-0.236
6:40:50 AM	0.233			-0.174
6:41:50 AM	0.231			-0.176
6:42:50 AM	0.207			-0.15
6:43:50 AM	0.213			-0.196
6:44:50 AM	0.236			-0.22
6:45:50 AM	0.237			-0.229
6:46:50 AM	0.247			-0.24
6:47:50 AM	0.242			-0.234
6:48:50 AM	0.237			-0.208
6:49:50 AM	0.209			-0.196
6:50:50 AM	0.22			-0.211
6:51:50 AM	0.208			-0.203
6:52:50 AM	0.219			-0.188
6:53:50 AM	0.218			-0.189
6:54:50 AM	0.214			-0.166
6:55:50 AM	0.25			-0.197
6:56:50 AM	0.224			-0.192
6:57:50 AM	0.24			-0.207
6:58:50 AM	0.214			-0.196
6:59:50 AM	0.207			-0.188
7:00:50 AM	0.213			-0.198
7:01:50 AM	0.224			-0.201
7:02:50 AM	0.236			-0.198
7:03:50 AM	0.216			-0.178
7:04:50 AM	0.188			-0.159
7:05:50 AM	0.192			-0.179
7:06:50 AM	0.182			-0.17
7:07:50 AM	0.191			-0.19
7:08:50 AM	0.197			-0.188
7:09:50 AM	0.196			-0.19
7:10:50 AM	0.183			-0.174
7:11:50 AM	0.19			-0.172

7:12:51 AM	0		7:12:50 AM	0.209	-0.209
7:13:51 AM	0		7:13:50 AM	0.217	-0.217
7:14:51 AM	0		7:14:50 AM	0.195	-0.195
7:15:51 AM	0		7:15:50 AM	0.189	-0.189
7:16:51 AM	0		7:16:50 AM	0.202	-0.202
7:17:51 AM	0.002		7:17:50 AM	0.237	-0.235
7:18:51 AM	0		7:18:50 AM	0.203	-0.203
7:19:51 AM	0		7:19:50 AM	0.206	-0.206
7:20:51 AM	0		7:20:50 AM	0.208	-0.208
7:21:51 AM	0.096		7:21:50 AM	0.228	-0.132
7:22:51 AM	0.002		7:22:50 AM	0.211	-0.209
7:23:51 AM	0		7:23:50 AM	0.199	-0.199
7:24:51 AM	0.017		7:24:50 AM	0.2	-0.183
7:25:51 AM	0.016		7:25:50 AM	0.202	-0.186
7:26:51 AM	0.003		7:26:50 AM	0.208	-0.205
7:27:51 AM	0		7:27:50 AM	0.204	-0.204
7:28:51 AM	0		7:28:50 AM	0.184	-0.184
7:29:51 AM	0		7:29:50 AM	0.182	-0.182
7:30:51 AM	0		7:30:50 AM	0.199	-0.199
7:31:51 AM	0		7:31:50 AM	0.179	-0.179
7:32:51 AM	0		7:32:50 AM	0.199	-0.199
7:33:51 AM	0		7:33:50 AM	0.234	-0.234
7:34:51 AM	0		7:34:50 AM	0.223	-0.223
7:35:51 AM	0.001		7:35:50 AM	0.245	-0.244
7:36:51 AM	0.001		7:36:50 AM	0.229	-0.228
7:37:51 AM	0		7:37:50 AM	0.233	-0.233
7:38:51 AM	0.002		7:38:50 AM	0.356	-0.354
7:39:51 AM	0.008		7:39:50 AM	0.256	-0.248
7:40:51 AM	0.007		7:40:50 AM	0.214	-0.207
7:41:51 AM	0.02		7:41:50 AM	0.29	-0.27
7:42:51 AM	0.012		7:42:50 AM	0.237	-0.225
7:43:51 AM	0.01		7:43:50 AM	0.238	-0.228
7:44:51 AM	0.01		7:44:50 AM	0.197	-0.187
7:45:51 AM	0.005		7:45:50 AM	0.189	-0.184
7:46:51 AM	0.005		7:46:50 AM	0.269	-0.264
7:47:51 AM	0.01		7:47:50 AM	0.275	-0.265
7:48:51 AM	0.07		7:48:50 AM	0.249	-0.179
7:49:51 AM	0.031		7:49:50 AM	0.262	-0.231
7:50:51 AM	0.087		7:50:50 AM	0.311	-0.224
7:51:51 AM	0.086		7:51:50 AM	0.246	-0.16
7:52:51 AM	0.07		7:52:50 AM	0.28	-0.21
7:53:51 AM	0.041		7:53:50 AM	0.196	-0.155
7:54:51 AM	0.011		7:54:50 AM	0.201	-0.19
7:55:51 AM	0.033		7:55:50 AM	0.18	-0.147
7:56:51 AM	0.052		7:56:50 AM	0.205	-0.153
7:57:51 AM	0.042		7:57:50 AM	0.21	-0.168
7:58:51 AM	0.044		7:58:50 AM	0.284	-0.24
7:59:51 AM	0.144		7:59:50 AM	0.259	-0.115
8:00:51 AM	0.063		8:00:50 AM	0.313	-0.25
8:01:51 AM	0.059		8:01:50 AM	0.353	-0.294
8:02:51 AM	0.047		8:02:50 AM	0.268	-0.221
8:03:51 AM	0.018		8:03:50 AM	0.326	-0.308
8:04:51 AM	0.004		8:04:50 AM	0.284	-0.28
8:05:51 AM	0.008		8:05:50 AM	0.298	-0.29
8:06:51 AM	0.008		8:06:50 AM	0.257	-0.249
8:07:51 AM	0.186		8:07:50 AM	0.199	-0.013
8:08:51 AM	0.151		8:08:50 AM	0.27	-0.119
8:09:51 AM	0.205		8:09:50 AM	0.265	-0.06
8:10:51 AM	0.268		8:10:50 AM	0.254	0.014
8:11:51 AM	0.118		8:11:50 AM	0.213	-0.095
8:12:51 AM	0.153		8:12:50 AM	0.27	-0.117
8:13:51 AM	0.16		8:13:50 AM	0.233	-0.073
8:14:51 AM	0.068		8:14:50 AM	0.12	-0.052
8:15:51 AM	0.05		8:15:50 AM	0.124	-0.074
8:16:51 AM	0.009		8:16:50 AM	0.138	-0.129
8:17:51 AM	0.002		8:17:50 AM	0.193	-0.191
8:18:51 AM	0.042		8:18:50 AM	0.142	-0.1
8:19:51 AM	0.176		8:19:50 AM	0.17	0.006
8:20:51 AM	0.156		8:20:50 AM	0.154	0.002
8:21:51 AM	0.165		8:21:50 AM	0.145	0.02
8:22:51 AM	0.143		8:22:50 AM	0.155	-0.012
8:23:51 AM	0.12		8:23:50 AM	0.179	-0.059
8:24:51 AM	0.107		8:24:50 AM	0.153	-0.046
8:25:51 AM	0.118		8:25:50 AM	0.109	0.009
8:26:51 AM	0.167		8:26:50 AM	0.118	0.049
8:27:51 AM	0.16		8:27:50 AM	0.131	0.029
8:28:51 AM	0.147		8:28:50 AM	0.151	-0.004
8:29:51 AM	0.133		8:29:50 AM	0.147	-0.014
8:30:51 AM	0.129		8:30:50 AM	0.175	-0.046
8:31:51 AM	0.162		8:31:50 AM	0.212	-0.05
8:32:51 AM	0.151		8:32:50 AM	0.22	-0.069
8:33:51 AM	0.168		8:33:50 AM	0.22	-0.052

8:34:51 AM	0.13		8:34:50 AM	0.233	-0.103
8:35:51 AM	0.121		8:35:50 AM	0.242	-0.121
8:36:51 AM	0.116		8:36:50 AM	0.22	-0.104
8:37:51 AM	0.127		8:37:50 AM	0.225	-0.098
8:38:51 AM	0.137		8:38:50 AM	0.229	-0.092
8:39:51 AM	0.144		8:39:50 AM	0.199	-0.055
8:40:51 AM	0.202		8:40:50 AM	0.177	0.025
8:41:51 AM	0.218		8:41:50 AM	0.134	0.084
8:42:51 AM	0.181		8:42:50 AM	0.173	0.008
8:43:51 AM	0.195		8:43:50 AM	0.158	0.037
8:44:51 AM	0.214		8:44:50 AM	0.192	0.022
8:45:51 AM	0.208		8:45:50 AM	0.151	0.057
8:46:51 AM	0.217		8:46:50 AM	0.119	0.098
8:47:51 AM	0.256		8:47:50 AM	0.145	0.111
8:48:51 AM	0.245		8:48:50 AM	0.166	0.079
8:49:51 AM	0.213		8:49:50 AM	0.152	0.061
8:50:51 AM	0.188		8:50:50 AM	0.142	0.046
8:51:51 AM	0.15		8:51:50 AM	0.147	0.003
8:52:51 AM	0.176		8:52:50 AM	0.118	0.058
8:53:51 AM	0.179		8:53:50 AM	0.179	0
8:54:51 AM	0.188		8:54:50 AM	0.168	0.02
8:55:51 AM	0.167		8:55:50 AM	0.202	-0.035
8:56:51 AM	0.137		8:56:50 AM	0.144	-0.007
8:57:51 AM	0.189		8:57:50 AM	0.147	0.042
8:58:51 AM	0.179		8:58:50 AM	0.16	0.019
8:59:51 AM	0.167		8:59:50 AM	0.196	-0.029
9:00:51 AM	0.163		9:00:50 AM	0.2	-0.037
9:01:51 AM	0.19		9:01:50 AM	0.179	0.011
9:02:51 AM	0.138		9:02:50 AM	0.158	-0.02
9:03:51 AM	0.161		9:03:50 AM	0.178	-0.017
9:04:51 AM	0.18		9:04:50 AM	0.14	0.04
9:05:51 AM	0.157		9:05:50 AM	0.113	0.044
9:06:51 AM	0.174		9:06:50 AM	0.097	0.077
9:07:51 AM	0.156		9:07:50 AM	0.104	0.052
9:08:51 AM	0.186		9:08:50 AM	0.1	0.086
9:09:51 AM	0.218		9:09:50 AM	0.103	0.115
9:10:51 AM	0.248		9:10:50 AM	0.104	0.144
9:11:51 AM	0.237		9:11:50 AM	0.097	0.14
9:12:51 AM	0.156		9:12:50 AM	0.098	0.058
9:13:51 AM	0.206		9:13:50 AM	0.101	0.105
9:14:51 AM	0.157		9:14:50 AM	0.102	0.055
9:15:51 AM	0.119		9:15:50 AM	0.109	0.01
9:16:51 AM	0.099		9:16:50 AM	0.096	0.003
9:17:51 AM	0.106		9:17:50 AM	0.101	0.005
9:18:51 AM	0.097		9:18:50 AM	0.101	-0.004
9:19:51 AM	0.1		9:19:50 AM	0.098	0.002
9:20:51 AM	0.108		9:20:50 AM	0.093	0.015
9:21:51 AM	0.097		9:21:50 AM	0.096	0.001
9:22:51 AM	0.094		9:22:50 AM	0.103	-0.009
9:23:51 AM	0.099		9:23:50 AM	0.165	-0.066
9:24:51 AM	0.129		9:24:50 AM	0.178	-0.049
9:25:51 AM	0.114		9:25:50 AM	0.114	0
9:26:51 AM	0.098		9:26:50 AM	0.12	-0.022
9:27:51 AM	0.104		9:27:50 AM	0.138	-0.034
9:28:51 AM	0.1		9:28:50 AM	0.142	-0.042
9:29:51 AM	0.1		9:29:50 AM	0.122	-0.022
9:30:51 AM	0.102		9:30:50 AM	0.096	0.006
9:31:51 AM	0.098		9:31:50 AM	0.097	0.001
9:32:51 AM	0.094		9:32:50 AM	0.099	-0.005
9:33:51 AM	0.098		9:33:50 AM	0.101	-0.003
9:34:51 AM	0.18		9:34:50 AM	0.1	0.08
9:35:51 AM	0.142		9:35:50 AM	0.094	0.048
9:36:51 AM	0.123		9:36:50 AM	0.096	0.027
9:37:51 AM	0.139		9:37:50 AM	0.111	0.028
9:38:51 AM	0.199		9:38:50 AM	0.104	0.095
9:39:51 AM	0.135		9:39:50 AM	0.099	0.036
9:40:51 AM	0.105		9:40:50 AM	0.108	-0.003
9:41:51 AM	0.099		9:41:50 AM	0.112	-0.013
9:42:51 AM	0.128		9:42:50 AM	0.129	-0.001
9:43:51 AM	0.114		9:43:50 AM	0.117	-0.003
9:44:51 AM	0.121		9:44:50 AM	0.129	-0.008
9:45:51 AM	0.106		9:45:50 AM	0.144	-0.038
9:46:51 AM	0.103		9:46:50 AM	0.148	-0.045
9:47:51 AM	0.1		9:47:50 AM	0.115	-0.015
9:48:51 AM	0.13		9:48:50 AM	0.13	0
9:49:51 AM	0.124		9:49:50 AM	0.103	0.021
9:50:51 AM	0.122		9:50:50 AM	0.126	-0.004
9:51:51 AM	0.107		9:51:50 AM	0.126	-0.019
9:52:51 AM	0.123		9:52:50 AM	0.133	-0.01
9:53:51 AM	0.162		9:53:50 AM	0.141	0.021
9:54:51 AM	0.313		9:54:50 AM	0.124	0.189
9:55:51 AM	0.168		9:55:50 AM	0.149	0.019

9:56:51 AM	0.239		9:56:50 AM	0.153	0.086
9:57:51 AM	0.222		9:57:50 AM	0.153	0.069
9:58:51 AM	0.128		9:58:50 AM	0.145	-0.017
9:59:51 AM	0.442		9:59:50 AM	0.147	0.295
10:00:51 AM	0.22		10:00:50 AM	0.222	-0.002
10:01:51 AM	0.324		10:01:50 AM	0.17	0.154
10:02:51 AM	0.234		10:02:50 AM	0.161	0.073
10:03:51 AM	0.381		10:03:50 AM	0.154	0.227
10:04:51 AM	0.248		10:04:50 AM	0.176	0.072
10:05:51 AM	0.391		10:05:50 AM	0.264	0.127
10:06:51 AM	0.589		10:06:50 AM	0.211	0.378
10:07:51 AM	0.212		10:07:50 AM	0.179	0.033
10:08:51 AM	0.214		10:08:50 AM	0.227	-0.013
10:09:51 AM	0.182		10:09:50 AM	0.097	0.085
10:10:51 AM	0.372		10:10:50 AM	0.125	0.247
10:11:51 AM	0.558		10:11:50 AM	0.105	0.453
10:12:51 AM	0.695		10:12:50 AM	0.098	0.597
10:13:51 AM	0.471		10:13:50 AM	0.087	0.384
10:14:51 AM	0.342		10:14:50 AM	0.09	0.252
10:15:51 AM	1.05		10:15:50 AM	0.084	0.966
10:16:51 AM	0.334		10:16:50 AM	0.093	0.241
10:17:51 AM	0.426		10:17:50 AM	0.099	0.327
10:18:51 AM	0.318		10:18:50 AM	0.106	0.212
10:19:51 AM	0.649		10:19:50 AM	0.097	0.552
10:20:51 AM	0.174		10:20:50 AM	0.098	0.076
10:21:51 AM	0.363		10:21:50 AM	0.126	0.237
10:22:51 AM	0.49		10:22:50 AM	0.121	0.369
10:23:51 AM	0.271		10:23:50 AM	0.138	0.133
10:24:51 AM	0.109		10:24:50 AM	0.12	-0.011
10:25:51 AM	0.201		10:25:50 AM	0.139	0.062
10:26:51 AM	0.129		10:26:50 AM	0.122	0.007
10:27:51 AM	0.147		10:27:50 AM	0.119	0.028
10:28:51 AM	0.21		10:28:50 AM	0.127	0.083
10:29:51 AM	0.313		10:29:50 AM	0.106	0.207
10:30:51 AM	0.141		10:30:50 AM	0.089	0.052
10:31:51 AM	0.262		10:31:50 AM	0.449	-0.187
10:32:51 AM	0.181		10:32:50 AM	0.095	0.086
10:33:51 AM	0.386		10:33:50 AM	0.077	0.309
10:34:51 AM	0.442		10:34:50 AM	0.079	0.363
10:35:51 AM	0.578		10:35:50 AM	0.086	0.492
10:36:51 AM	0.888		10:36:50 AM	0.099	0.789
10:37:51 AM	0.559		10:37:50 AM	0.102	0.457
10:38:51 AM	1.25		10:38:50 AM	0.077	1.173
10:39:51 AM	0.697		10:39:50 AM	0.084	0.613
10:40:51 AM	0.901		10:40:50 AM	0.093	0.808
10:41:51 AM	0.27		10:41:50 AM	0.12	0.15
10:42:51 AM	0.463		10:42:50 AM	0.075	0.388
10:43:51 AM	0.236		10:43:50 AM	0.082	0.154
10:44:51 AM	0.703		10:44:50 AM	0.089	0.614
10:45:51 AM	0.269		10:45:50 AM	0.108	0.161
10:46:51 AM	0.38		10:46:50 AM	0.097	0.283
10:47:51 AM	0.222		10:47:50 AM	0.101	0.121
10:48:51 AM	0.266		10:48:50 AM	0.108	0.158
10:49:51 AM	0.49		10:49:50 AM	0.111	0.379
10:50:51 AM	0.309		10:50:50 AM	0.1	0.209
10:51:51 AM	0.183		10:51:50 AM	0.116	0.067
10:52:51 AM	0.322		10:52:50 AM	0.189	0.133
10:53:51 AM	0.195		10:53:50 AM	0.127	0.068
10:54:51 AM	0.096		10:54:50 AM	0.132	-0.036
10:55:51 AM	0.13		10:55:50 AM	0.11	0.02
10:56:51 AM	0.186		10:56:50 AM	0.113	0.073
10:57:51 AM	0.124		10:57:50 AM	0.098	0.026
10:58:51 AM	0.114		10:58:50 AM	0.088	0.026
10:59:51 AM	0.114		10:59:50 AM	0.11	0.004
11:00:51 AM	0.129		11:00:50 AM	0.102	0.027
11:01:51 AM	0.139		11:01:50 AM	0.124	0.015
11:02:51 AM	0.12		11:02:50 AM	0.106	0.014
11:03:51 AM	0.182		11:03:50 AM	0.105	0.077
11:04:51 AM	0.303		11:04:50 AM	0.092	0.211
11:05:51 AM	0.192		11:05:50 AM	0.078	0.114
11:06:51 AM	0.152		11:06:50 AM	0.094	0.058
11:07:51 AM	0.18		11:07:50 AM	0.083	0.097
11:08:51 AM	0.125		11:08:50 AM	0.077	0.048
11:09:51 AM	0.12		11:09:50 AM	0.092	0.028
11:10:51 AM	0.121		11:10:50 AM	0.079	0.042
11:11:51 AM	0.129		11:11:50 AM	0.086	0.043
11:12:51 AM	0.128		11:12:50 AM	0.069	0.059
11:13:51 AM	0.119		11:13:50 AM	0.067	0.052
11:14:51 AM	0.129		11:14:50 AM	0.067	0.062
11:15:51 AM	0.138		11:15:50 AM	0.061	0.077
11:16:51 AM	0.143		11:16:50 AM	0.066	0.077
11:17:51 AM	0.107		11:17:50 AM	0.069	0.038

11:18:51 AM	0.092		11:18:50 AM	0.07	0.022
11:19:51 AM	0.112		11:19:50 AM	0.069	0.043
11:20:51 AM	0.095		11:20:50 AM	0.054	0.041
11:21:51 AM	0.091		11:21:50 AM	0.049	0.042
11:22:51 AM	0.091		11:22:50 AM	0.052	0.039
11:23:51 AM	0.091				0.091
11:24:51 AM	0.078				0.078
11:25:51 AM	0.087				0.087
11:26:51 AM	0.078				0.078
11:27:51 AM	0.07				0.07
11:28:51 AM	0.079				0.079
11:29:51 AM	0.115				0.115
11:30:51 AM	0.111				0.111
11:31:51 AM	0.111				0.111
11:32:51 AM	0.081				0.081

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_015
Test Start Time	6:42:00 AM
Test Start Date	4/2/2013
Test Length [D:H:M]	0:05:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.148
Mass Minimum [mg/m3]	0.046
Mass Maximum [mg/m3]	1.14
Mass TWA [mg/m3]	0.093
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	304

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_015
Test Start Time	6:45:29 AM
Test Start Date	4/2/2013
Test Length [D:H:M]	0:05:10
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.151
Mass Minimum [mg/m3]	0.042
Mass Maximum [mg/m3]	1.2
Mass TWA [mg/m3]	0.098
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	305

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:42:00 AM	0.136							0.136
6:43:00 AM	0.136							0.136
6:44:00 AM	0.13							0.13
6:45:00 AM	0.183			6:45:29 AM	0.252			-0.069
6:46:00 AM	0.152			6:46:29 AM	0.123			0.029
6:47:00 AM	0.115			6:47:29 AM	0.088			0.027
6:48:00 AM	0.183			6:48:29 AM	0.073			0.11
6:49:00 AM	0.079			6:49:29 AM	0.064			0.015
6:50:00 AM	0.07			6:50:29 AM	0.083			-0.013
6:51:00 AM	0.087			6:51:29 AM	0.128			-0.041
6:52:00 AM	0.115			6:52:29 AM	0.097			0.018
6:53:00 AM	0.102			6:53:29 AM	0.08			0.022
6:54:00 AM	0.07			6:54:29 AM	0.054			0.016
6:55:00 AM	0.054			6:55:29 AM	0.071			-0.017
6:56:00 AM	0.084			6:56:29 AM	0.089			-0.005
6:57:00 AM	0.066			6:57:29 AM	0.084			-0.018
6:58:00 AM	0.067			6:58:29 AM	0.068			-0.001
6:59:00 AM	0.052			6:59:29 AM	0.042			0.01
7:00:00 AM	0.049			7:00:29 AM	0.051			-0.002
7:01:00 AM	0.057			7:01:29 AM	0.058			-0.001
7:02:00 AM	0.057			7:02:29 AM	0.05			0.007
7:03:00 AM	1.14			7:03:29 AM	0.064			1.076
7:04:00 AM	0.079			7:04:29 AM	0.063			0.016
7:05:00 AM	0.058			7:05:29 AM	0.046			0.012
7:06:00 AM	0.046			7:06:29 AM	0.102			-0.056
7:07:00 AM	0.103			7:07:29 AM	0.076			0.027
7:08:00 AM	0.076			7:08:29 AM	0.093			-0.017
7:09:00 AM	0.11			7:09:29 AM	0.089			0.021
7:10:00 AM	0.07			7:10:29 AM	0.054			0.016
7:11:00 AM	0.055			7:11:29 AM	0.063			-0.008
7:12:00 AM	0.06			7:12:29 AM	0.079			-0.019
7:13:00 AM	0.077			7:13:29 AM	0.092			-0.015
7:14:00 AM	0.076			7:14:29 AM	0.076			0
7:15:00 AM	0.097			7:15:29 AM	0.102			-0.005
7:16:00 AM	0.088			7:16:29 AM	0.069			0.019
7:17:00 AM	0.069			7:17:29 AM	0.06			0.009
7:18:00 AM	0.197			7:18:29 AM	0.082			0.115
7:19:00 AM	0.071			7:19:29 AM	0.143			-0.072
7:20:00 AM	0.081			7:20:29 AM	0.12			-0.039
7:21:00 AM	0.083			7:21:29 AM	0.088			-0.005
7:22:00 AM	0.066			7:22:29 AM	0.065			0.001
7:23:00 AM	0.062			7:23:29 AM	0.114			-0.052
7:24:00 AM	0.114			7:24:29 AM	0.098			0.016
7:25:00 AM	0.095			7:25:29 AM	0.113			-0.018
7:26:00 AM	0.104			7:26:29 AM	0.116			-0.012
7:27:00 AM	0.133			7:27:29 AM	0.119			0.014
7:28:00 AM	0.102			7:28:29 AM	0.129			-0.027
7:29:00 AM	0.095			7:29:29 AM	0.139			-0.044
7:30:00 AM	0.089			7:30:29 AM	0.097			-0.008
7:31:00 AM	0.082			7:31:29 AM	0.104			-0.022
7:32:00 AM	0.12			7:32:29 AM	0.085			0.035

7:33:00 AM	0.14		7:33:29 AM	0.091	0.049
7:34:00 AM	0.104		7:34:29 AM	0.091	0.013
7:35:00 AM	0.109		7:35:29 AM	0.199	-0.09
7:36:00 AM	0.13		7:36:29 AM	0.132	-0.002
7:37:00 AM	0.197		7:37:29 AM	0.106	0.091
7:38:00 AM	0.109		7:38:29 AM	0.111	-0.002
7:39:00 AM	0.093		7:39:29 AM	0.41	-0.317
7:40:00 AM	0.088		7:40:29 AM	0.101	-0.013
7:41:00 AM	0.085		7:41:29 AM	0.087	-0.002
7:42:00 AM	0.076		7:42:29 AM	0.126	-0.05
7:43:00 AM	0.072		7:43:29 AM	0.112	-0.04
7:44:00 AM	0.087		7:44:29 AM	0.127	-0.04
7:45:00 AM	0.069		7:45:29 AM	0.271	-0.202
7:46:00 AM	0.116		7:46:29 AM	0.939	-0.823
7:47:00 AM	0.179		7:47:29 AM	1.2	-1.021
7:48:00 AM	0.176		7:48:29 AM	0.14	0.036
7:49:00 AM	0.286		7:49:29 AM	0.169	0.117
7:50:00 AM	0.133		7:50:29 AM	0.133	0
7:51:00 AM	0.119		7:51:29 AM	0.167	-0.048
7:52:00 AM	0.232		7:52:29 AM	0.139	0.093
7:53:00 AM	0.121		7:53:29 AM	0.106	0.015
7:54:00 AM	0.199		7:54:29 AM	0.054	0.145
7:55:00 AM	0.063		7:55:29 AM	0.136	-0.073
7:56:00 AM	0.07		7:56:29 AM	0.141	-0.071
7:57:00 AM	0.102		7:57:29 AM	0.1	0.002
7:58:00 AM	0.133		7:58:29 AM	0.144	-0.011
7:59:00 AM	0.137		7:59:29 AM	0.1	0.037
8:00:00 AM	0.103		8:00:29 AM	0.123	-0.02
8:01:00 AM	0.147		8:01:29 AM	0.642	-0.495
8:02:00 AM	0.258		8:02:29 AM	0.847	-0.589
8:03:00 AM	0.353		8:03:29 AM	0.317	0.036
8:04:00 AM	0.432		8:04:29 AM	0.218	0.214
8:05:00 AM	0.241		8:05:29 AM	0.157	0.084
8:06:00 AM	0.168		8:06:29 AM	0.174	-0.006
8:07:00 AM	0.392		8:07:29 AM	0.072	0.32
8:08:00 AM	0.16		8:08:29 AM	0.116	0.044
8:09:00 AM	0.103		8:09:29 AM	0.094	0.009
8:10:00 AM	0.122		8:10:29 AM	0.108	0.014
8:11:00 AM	0.103		8:11:29 AM	0.079	0.024
8:12:00 AM	0.104		8:12:29 AM	0.087	0.017
8:13:00 AM	0.092		8:13:29 AM	0.095	-0.003
8:14:00 AM	0.148		8:14:29 AM	0.077	0.071
8:15:00 AM	0.101		8:15:29 AM	0.074	0.027
8:16:00 AM	0.097		8:16:29 AM	0.068	0.029
8:17:00 AM	0.075		8:17:29 AM	0.297	-0.222
8:18:00 AM	0.069		8:18:29 AM	0.286	-0.217
8:19:00 AM	0.143		8:19:29 AM	0.237	-0.094
8:20:00 AM	0.327		8:20:29 AM	0.116	0.211
8:21:00 AM	0.242		8:21:29 AM	0.076	0.166
8:22:00 AM	0.166		8:22:29 AM	0.082	0.084
8:23:00 AM	0.117		8:23:29 AM	0.113	0.004
8:24:00 AM	0.13		8:24:29 AM	0.115	0.015
8:25:00 AM	0.152		8:25:29 AM	0.099	0.053
8:26:00 AM	0.341		8:26:29 AM	0.154	0.187
8:27:00 AM	0.145		8:27:29 AM	0.113	0.032
8:28:00 AM	0.118		8:28:29 AM	0.119	-0.001
8:29:00 AM	0.138		8:29:29 AM	0.098	0.04
8:30:00 AM	0.153		8:30:29 AM	0.149	0.004
8:31:00 AM	0.139		8:31:29 AM	0.117	0.022
8:32:00 AM	0.094		8:32:29 AM	0.062	0.032
8:33:00 AM	0.101		8:33:29 AM	0.218	-0.117
8:34:00 AM	0.089		8:34:29 AM	0.137	-0.048
8:35:00 AM	0.183		8:35:29 AM	0.133	0.05
8:36:00 AM	0.098		8:36:29 AM	0.124	-0.026
8:37:00 AM	0.114		8:37:29 AM	0.1	0.014
8:38:00 AM	0.145		8:38:29 AM	0.067	0.078
8:39:00 AM	0.082		8:39:29 AM	0.082	0
8:40:00 AM	0.069		8:40:29 AM	0.317	-0.248
8:41:00 AM	0.073		8:41:29 AM	0.176	-0.103
8:42:00 AM	0.092		8:42:29 AM	0.106	-0.014
8:43:00 AM	0.178		8:43:29 AM	0.293	-0.115
8:44:00 AM	0.152		8:44:29 AM	0.148	0.004

8:45:00 AM	0.216		8:45:29 AM	0.221	-0.005
8:46:00 AM	0.277		8:46:29 AM	0.184	0.093
8:47:00 AM	0.247		8:47:29 AM	0.126	0.121
8:48:00 AM	0.211		8:48:29 AM	0.209	0.002
8:49:00 AM	0.274		8:49:29 AM	0.251	0.023
8:50:00 AM	0.192		8:50:29 AM	0.121	0.071
8:51:00 AM	0.276		8:51:29 AM	0.152	0.124
8:52:00 AM	0.195		8:52:29 AM	0.151	0.044
8:53:00 AM	0.12		8:53:29 AM	0.178	-0.058
8:54:00 AM	0.158		8:54:29 AM	0.309	-0.151
8:55:00 AM	0.135		8:55:29 AM	0.126	0.009
8:56:00 AM	0.447		8:56:29 AM	0.21	0.237
8:57:00 AM	0.164		8:57:29 AM	0.226	-0.062
8:58:00 AM	0.153		8:58:29 AM	0.131	0.022
8:59:00 AM	0.188		8:59:29 AM	0.111	0.077
9:00:00 AM	0.176		9:00:29 AM	0.102	0.074
9:01:00 AM	0.368		9:01:29 AM	0.081	0.287
9:02:00 AM	0.489		9:02:29 AM	0.102	0.387
9:03:00 AM	0.142		9:03:29 AM	0.124	0.018
9:04:00 AM	0.068		9:04:29 AM	0.149	-0.081
9:05:00 AM	0.142		9:05:29 AM	0.152	-0.01
9:06:00 AM	0.164		9:06:29 AM	0.097	0.067
9:07:00 AM	0.15		9:07:29 AM	0.171	-0.021
9:08:00 AM	0.124		9:08:29 AM	0.134	-0.01
9:09:00 AM	0.106		9:09:29 AM	0.08	0.026
9:10:00 AM	0.129		9:10:29 AM	0.086	0.043
9:11:00 AM	0.089		9:11:29 AM	0.143	-0.054
9:12:00 AM	0.085		9:12:29 AM	0.294	-0.209
9:13:00 AM	0.076		9:13:29 AM	0.049	0.027
9:14:00 AM	0.132		9:14:29 AM	0.068	0.064
9:15:00 AM	0.073		9:15:29 AM	0.082	-0.009
9:16:00 AM	0.053		9:16:29 AM	0.216	-0.163
9:17:00 AM	0.074		9:17:29 AM	0.091	-0.017
9:18:00 AM	0.145		9:18:29 AM	0.122	0.023
9:19:00 AM	0.236		9:19:29 AM	0.129	0.107
9:20:00 AM	0.08		9:20:29 AM	0.159	-0.079
9:21:00 AM	0.06		9:21:29 AM	0.138	-0.078
9:22:00 AM	0.114		9:22:29 AM	0.078	0.036
9:23:00 AM	0.183		9:23:29 AM	0.128	0.055
9:24:00 AM	0.135		9:24:29 AM	0.225	-0.09
9:25:00 AM	0.073		9:25:29 AM	0.149	-0.076
9:26:00 AM	0.135		9:26:29 AM	0.143	-0.008
9:27:00 AM	0.161		9:27:29 AM	0.2	-0.039
9:28:00 AM	0.11		9:28:29 AM	0.146	-0.036
9:29:00 AM	0.134		9:29:29 AM	0.175	-0.041
9:30:00 AM	0.097		9:30:29 AM	0.133	-0.036
9:31:00 AM	0.133		9:31:29 AM	0.107	0.026
9:32:00 AM	0.105		9:32:29 AM	0.133	-0.028
9:33:00 AM	0.171		9:33:29 AM	0.15	0.021
9:34:00 AM	0.101		9:34:29 AM	0.157	-0.056
9:35:00 AM	0.087		9:35:29 AM	0.247	-0.16
9:36:00 AM	0.128		9:36:29 AM	0.131	-0.003
9:37:00 AM	0.19		9:37:29 AM	0.183	0.007
9:38:00 AM	0.193		9:38:29 AM	0.118	0.075
9:39:00 AM	0.189		9:39:29 AM	0.105	0.084
9:40:00 AM	0.112		9:40:29 AM	0.158	-0.046
9:41:00 AM	0.103		9:41:29 AM	0.225	-0.122
9:42:00 AM	0.093		9:42:29 AM	0.088	0.005
9:43:00 AM	0.154		9:43:29 AM	0.085	0.069
9:44:00 AM	0.218		9:44:29 AM	0.147	0.071
9:45:00 AM	0.065		9:45:29 AM	0.117	-0.052
9:46:00 AM	0.058		9:46:29 AM	0.109	-0.051
9:47:00 AM	0.076		9:47:29 AM	0.081	-0.005
9:48:00 AM	0.104		9:48:29 AM	0.131	-0.027
9:49:00 AM	0.074		9:49:29 AM	0.102	-0.028
9:50:00 AM	0.104		9:50:29 AM	0.729	-0.625
9:51:00 AM	0.086		9:51:29 AM	0.147	-0.061
9:52:00 AM	0.098		9:52:29 AM	0.476	-0.378
9:53:00 AM	0.242		9:53:29 AM	0.104	0.138
9:54:00 AM	0.159		9:54:29 AM	0.088	0.071
9:55:00 AM	0.174		9:55:29 AM	0.068	0.106
9:56:00 AM	0.066		9:56:29 AM	0.081	-0.015

9:57:00 AM	0.082	9:57:29 AM	0.129	-0.047
9:58:00 AM	0.089	9:58:29 AM	0.065	0.024
9:59:00 AM	0.086	9:59:29 AM	0.093	-0.007
10:00:00 AM	0.061	10:00:29 AM	0.385	-0.324
10:01:00 AM	0.078	10:01:29 AM	0.075	0.003
10:02:00 AM	0.056	10:02:29 AM	0.449	-0.393
10:03:00 AM	0.082	10:03:29 AM	0.103	-0.021
10:04:00 AM	0.303	10:04:29 AM	0.07	0.233
10:05:00 AM	0.064	10:05:29 AM	0.313	-0.249
10:06:00 AM	0.085	10:06:29 AM	0.158	-0.073
10:07:00 AM	0.057	10:07:29 AM	0.167	-0.11
10:08:00 AM	0.164	10:08:29 AM	0.123	0.041
10:09:00 AM	0.367	10:09:29 AM	0.153	0.214
10:10:00 AM	0.197	10:10:29 AM	0.095	0.102
10:11:00 AM	0.114	10:11:29 AM	0.069	0.045
10:12:00 AM	0.133	10:12:29 AM	0.069	0.064
10:13:00 AM	0.114	10:13:29 AM	0.101	0.013
10:14:00 AM	0.108	10:14:29 AM	0.099	0.009
10:15:00 AM	0.068	10:15:29 AM	0.091	-0.023
10:16:00 AM	0.127	10:16:29 AM	0.099	0.028
10:17:00 AM	0.066	10:17:29 AM	0.086	-0.02
10:18:00 AM	0.06	10:18:29 AM	0.139	-0.079
10:19:00 AM	0.092	10:19:29 AM	0.083	0.009
10:20:00 AM	0.131	10:20:29 AM	0.074	0.057
10:21:00 AM	0.08	10:21:29 AM	0.139	-0.059
10:22:00 AM	0.127	10:22:29 AM	0.056	0.071
10:23:00 AM	0.093	10:23:29 AM	0.095	-0.002
10:24:00 AM	0.063	10:24:29 AM	0.11	-0.047
10:25:00 AM	0.079	10:25:29 AM	0.17	-0.091
10:26:00 AM	0.058	10:26:29 AM	0.111	-0.053
10:27:00 AM	0.118	10:27:29 AM	0.098	0.02
10:28:00 AM	0.086	10:28:29 AM	0.102	-0.016
10:29:00 AM	0.104	10:29:29 AM	0.102	0.002
10:30:00 AM	0.118	10:30:29 AM	0.168	-0.05
10:31:00 AM	0.089	10:31:29 AM	0.197	-0.108
10:32:00 AM	0.109	10:32:29 AM	0.62	-0.511
10:33:00 AM	0.084	10:33:29 AM	0.22	-0.136
10:34:00 AM	0.061	10:34:29 AM	0.128	-0.067
10:35:00 AM	0.14	10:35:29 AM	0.096	0.044
10:36:00 AM	0.288	10:36:29 AM	0.158	0.13
10:37:00 AM	0.19	10:37:29 AM	0.086	0.104
10:38:00 AM	0.221	10:38:29 AM	0.173	0.048
10:39:00 AM	0.104	10:39:29 AM	0.118	-0.014
10:40:00 AM	0.107	10:40:29 AM	0.07	0.037
10:41:00 AM	0.108	10:41:29 AM	0.21	-0.102
10:42:00 AM	0.149	10:42:29 AM	0.199	-0.05
10:43:00 AM	0.135	10:43:29 AM	0.228	-0.093
10:44:00 AM	0.078	10:44:29 AM	0.186	-0.108
10:45:00 AM	0.082	10:45:29 AM	0.092	-0.01
10:46:00 AM	0.31	10:46:29 AM	0.055	0.255
10:47:00 AM	0.249	10:47:29 AM	0.099	0.15
10:48:00 AM	0.179	10:48:29 AM	0.169	0.01
10:49:00 AM	0.168	10:49:29 AM	0.32	-0.152
10:50:00 AM	0.059	10:50:29 AM	0.395	-0.336
10:51:00 AM	0.088	10:51:29 AM	0.119	-0.031
10:52:00 AM	0.122	10:52:29 AM	0.074	0.048
10:53:00 AM	0.272	10:53:29 AM	0.201	0.071
10:54:00 AM	0.417	10:54:29 AM	0.141	0.276
10:55:00 AM	0.345	10:55:29 AM	0.131	0.214
10:56:00 AM	0.093	10:56:29 AM	0.479	-0.386
10:57:00 AM	0.102	10:57:29 AM	0.275	-0.173
10:58:00 AM	0.264	10:58:29 AM	0.065	0.199
10:59:00 AM	0.164	10:59:29 AM	0.045	0.119
11:00:00 AM	0.24	11:00:29 AM	0.15	0.09
11:01:00 AM	0.506	11:01:29 AM	0.146	0.36
11:02:00 AM	0.214	11:02:29 AM	0.174	0.04
11:03:00 AM	0.097	11:03:29 AM	0.199	-0.102
11:04:00 AM	0.248	11:04:29 AM	0.129	0.119
11:05:00 AM	0.196	11:05:29 AM	0.09	0.106
11:06:00 AM	0.274	11:06:29 AM	0.083	0.191
11:07:00 AM	0.234	11:07:29 AM	0.137	0.097
11:08:00 AM	0.225	11:08:29 AM	0.23	-0.005

11:09:00 AM	0.097		11:09:29 AM	0.143	-0.046
11:10:00 AM	0.1		11:10:29 AM	0.083	0.017
11:11:00 AM	0.114		11:11:29 AM	0.228	-0.114
11:12:00 AM	0.131		11:12:29 AM	0.277	-0.146
11:13:00 AM	0.232		11:13:29 AM	0.097	0.135
11:14:00 AM	0.162		11:14:29 AM	0.076	0.086
11:15:00 AM	0.124		11:15:29 AM	0.107	0.017
11:16:00 AM	0.356		11:16:29 AM	0.086	0.27
11:17:00 AM	0.302		11:17:29 AM	0.095	0.207
11:18:00 AM	0.297		11:18:29 AM	0.102	0.195
11:19:00 AM	0.116		11:19:29 AM	0.085	0.031
11:20:00 AM	0.159		11:20:29 AM	0.065	0.094
11:21:00 AM	0.075		11:21:29 AM	0.12	-0.045
11:22:00 AM	0.104		11:22:29 AM	0.142	-0.038
11:23:00 AM	0.117		11:23:29 AM	0.12	-0.003
11:24:00 AM	0.072		11:24:29 AM	0.09	-0.018
11:25:00 AM	0.062		11:25:29 AM	0.088	-0.026
11:26:00 AM	0.177		11:26:29 AM	0.131	0.046
11:27:00 AM	0.311		11:27:29 AM	0.18	0.131
11:28:00 AM	0.219		11:28:29 AM	0.114	0.105
11:29:00 AM	0.106		11:29:29 AM	0.244	-0.138
11:30:00 AM	0.11		11:30:29 AM	0.218	-0.108
11:31:00 AM	0.175		11:31:29 AM	0.6	-0.425
11:32:00 AM	0.306		11:32:29 AM	0.202	0.104
11:33:00 AM	0.202		11:33:29 AM	0.104	0.098
11:34:00 AM	0.387		11:34:29 AM	0.168	0.219
11:35:00 AM	0.268		11:35:29 AM	0.29	-0.022
11:36:00 AM	0.117		11:36:29 AM	0.353	-0.236
11:37:00 AM	0.097		11:37:29 AM	0.425	-0.328
11:38:00 AM	0.092		11:38:29 AM	0.2	-0.108
11:39:00 AM	0.152		11:39:29 AM	0.114	0.038
11:40:00 AM	0.113		11:40:29 AM	0.115	-0.002
11:41:00 AM	0.582		11:41:29 AM	0.164	0.418
11:42:00 AM	0.431		11:42:29 AM	0.149	0.282
11:43:00 AM	0.278		11:43:29 AM	0.08	0.198
11:44:00 AM	0.174		11:44:29 AM	0.116	0.058
11:45:00 AM	0.144		11:45:29 AM	0.068	0.076
			11:46:29 AM	0.15	-0.15
			11:47:29 AM	0.184	-0.184
			11:48:29 AM	0.117	-0.117
			11:49:29 AM	0.059	-0.059

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_016
Test Start Time	6:16:22 AM
Test Start Date	4/3/2013
Test Length [D:H:M]	0:04:59
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.111
Mass Minimum [mg/m3]	0.037
Mass Maximum [mg/m3]	0.483
Mass TWA [mg/m3]	0.069
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	299

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:16:22 AM	0.483		
6:17:22 AM	0.09		
6:18:22 AM	0.075		
6:19:22 AM	0.122		
6:20:22 AM	0.129		
6:21:22 AM	0.16		
6:22:22 AM	0.124		
6:23:22 AM	0.109		
6:24:22 AM	0.086		
6:25:22 AM	0.102		
6:26:22 AM	0.135		
6:27:22 AM	0.167		
6:28:22 AM	0.165		
6:29:22 AM	0.157		
6:30:22 AM	0.143		
6:31:22 AM	0.273		
6:32:22 AM	0.351		
6:33:22 AM	0.074		
6:34:22 AM	0.199		
6:35:22 AM	0.181		
6:36:22 AM	0.152		
6:37:22 AM	0.138		
6:38:22 AM	0.084		
6:39:22 AM	0.117		
6:40:22 AM	0.231		
6:41:22 AM	0.127		
6:42:22 AM	0.111		
6:43:22 AM	0.135		
6:44:22 AM	0.193		
6:45:22 AM	0.13		
6:46:22 AM	0.12		
6:47:22 AM	0.071		
6:48:22 AM	0.089		
6:49:22 AM	0.073		
6:50:22 AM	0.141		
6:51:22 AM	0.172		
6:52:22 AM	0.077		
6:53:22 AM	0.092		
6:54:22 AM	0.135		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_016
Test Start Time	6:04:03 AM
Test Start Date	4/3/2013
Test Length [D:H:M]	0:13:23
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.166
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	2.85
Mass TWA [mg/m3]	0.109
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	313

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:04:03 AM	0.975			-0.975
6:05:03 AM	0.13			-0.13
6:06:03 AM	2.85			-2.85
6:07:03 AM	0.126			-0.126
6:08:03 AM	0.072			-0.072
6:09:03 AM	0.094			-0.094
6:10:03 AM	0.116			-0.116
6:11:03 AM	0.101			-0.101
6:12:03 AM	0.144			-0.144
6:13:03 AM	0.169			-0.169
6:14:03 AM	0.151			-0.151
6:15:03 AM	0.29			-0.29
6:16:03 AM	0.096			0.387
6:17:03 AM	0.151			-0.061
6:18:03 AM	0.067			0.008
6:19:03 AM	0.087			0.035
6:20:03 AM	0.099			0.03
6:21:03 AM	0.125			0.035
6:22:03 AM	0.202			-0.078
6:23:03 AM	0.135			-0.026
6:24:03 AM	0.118			-0.032
6:25:03 AM	0.091			0.011
6:26:03 AM	0.151			-0.016
6:27:03 AM	0.217			-0.05
6:28:03 AM	0.211			-0.046
6:29:03 AM	0.258			-0.101
6:30:03 AM	0.184			-0.041
6:31:03 AM	0.207			0.066
6:32:03 AM	0.462			-0.111
6:33:03 AM	0.135			-0.061
6:34:03 AM	0.39			-0.191
6:35:03 AM	0.193			-0.012
6:36:03 AM	0.202			-0.05
6:37:03 AM	0.181			-0.043
6:38:03 AM	0.146			-0.062
6:39:03 AM	0.193			-0.076
6:40:03 AM	0.297			-0.066
6:41:03 AM	0.142			-0.015
6:42:03 AM	0.138			-0.027
6:43:03 AM	0.174			-0.039
6:44:03 AM	0.204			-0.011
6:45:03 AM	0.185			-0.055
6:46:03 AM	0.117			0.003
6:47:03 AM	0.097			-0.026
6:48:03 AM	0.095			-0.006
6:49:03 AM	0.071			0.002
6:50:03 AM	0.158			-0.017
6:51:03 AM	0.142			0.03
6:52:03 AM	0.078			-0.001
6:53:03 AM	0.107			-0.015
6:54:03 AM	0.187			-0.052

6:55:22 AM	0.203		6:55:03 AM	0.167	0.036
6:56:22 AM	0.066		6:56:03 AM	0.126	-0.06
6:57:22 AM	0.138		6:57:03 AM	0.1	0.038
6:58:22 AM	0.095		6:58:03 AM	0.124	-0.029
6:59:22 AM	0.077		6:59:03 AM	0.093	-0.016
7:00:22 AM	0.086		7:00:03 AM	0.085	0.001
7:01:22 AM	0.072		7:01:03 AM	0.083	-0.011
7:02:22 AM	0.119		7:02:03 AM	0.123	-0.004
7:03:22 AM	0.11		7:03:03 AM	0.069	0.041
7:04:22 AM	0.049		7:04:03 AM	0.053	-0.004
7:05:22 AM	0.065		7:05:03 AM	0.087	-0.022
7:06:22 AM	0.25		7:06:03 AM	0.139	0.111
7:07:22 AM	0.09		7:07:03 AM	0.416	-0.326
7:08:22 AM	0.093		7:08:03 AM	0.072	0.021
7:09:22 AM	0.076		7:09:03 AM	0.159	-0.083
7:10:22 AM	0.199		7:10:03 AM	0.403	-0.204
7:11:22 AM	0.208		7:11:03 AM	0.143	0.065
7:12:22 AM	0.117		7:12:03 AM	0.094	0.023
7:13:22 AM	0.073		7:13:03 AM	0.076	-0.003
7:14:22 AM	0.056		7:14:03 AM	0.069	-0.013
7:15:22 AM	0.049		7:15:03 AM	0.065	-0.016
7:16:22 AM	0.057		7:16:03 AM	0.064	-0.007
7:17:22 AM	0.083		7:17:03 AM	0.074	0.009
7:18:22 AM	0.055		7:18:03 AM	0.055	0
7:19:22 AM	0.059		7:19:03 AM	0.095	-0.036
7:20:22 AM	0.083		7:20:03 AM	0.096	-0.013
7:21:22 AM	0.08		7:21:03 AM	0.078	0.002
7:22:22 AM	0.066		7:22:03 AM	0.07	-0.004
7:23:22 AM	0.067		7:23:03 AM	0.132	-0.065
7:24:22 AM	0.111		7:24:03 AM	0.135	-0.024
7:25:22 AM	0.115		7:25:03 AM	0.1	0.015
7:26:22 AM	0.094		7:26:03 AM	0.304	-0.21
7:27:22 AM	0.294		7:27:03 AM	0.456	-0.162
7:28:22 AM	0.299		7:28:03 AM	0.327	-0.028
7:29:22 AM	0.201		7:29:03 AM	0.397	-0.196
7:30:22 AM	0.226		7:30:03 AM	0.325	-0.099
7:31:22 AM	0.278		7:31:03 AM	0.26	0.018
7:32:22 AM	0.229		7:32:03 AM	0.276	-0.047
7:33:22 AM	0.328		7:33:03 AM	0.207	0.121
7:34:22 AM	0.206		7:34:03 AM	0.321	-0.115
7:35:22 AM	0.203		7:35:03 AM	0.524	-0.321
7:36:22 AM	0.263		7:36:03 AM	0.18	0.083
7:37:22 AM	0.131		7:37:03 AM	0.118	0.013
7:38:22 AM	0.099		7:38:03 AM	0.12	-0.021
7:39:22 AM	0.096		7:39:03 AM	0.112	-0.016
7:40:22 AM	0.084		7:40:03 AM	0.104	-0.02
7:41:22 AM	0.097		7:41:03 AM	0.122	-0.025
7:42:22 AM	0.115		7:42:03 AM	0.462	-0.347
7:43:22 AM	0.316		7:43:03 AM	0.206	0.11
7:44:22 AM	0.19		7:44:03 AM	0.158	0.032
7:45:22 AM	0.147		7:45:03 AM	0.114	0.033
7:46:22 AM	0.092		7:46:03 AM	0.149	-0.057
7:47:22 AM	0.171		7:47:03 AM	0.109	0.062
7:48:22 AM	0.104		7:48:03 AM	0.13	-0.026
7:49:22 AM	0.128		7:49:03 AM	0.126	0.002
7:50:22 AM	0.099		7:50:03 AM	0.09	0.009
7:51:22 AM	0.088		7:51:03 AM	0.103	-0.015
7:52:22 AM	0.09		7:52:03 AM	0.092	-0.002
7:53:22 AM	0.08		7:53:03 AM	0.084	-0.004
7:54:22 AM	0.071		7:54:03 AM	0.063	0.008
7:55:22 AM	0.063		7:55:03 AM	0.076	-0.013
7:56:22 AM	0.089		7:56:03 AM	0.086	0.003
7:57:22 AM	0.082		7:57:03 AM	0.087	-0.005
7:58:22 AM	0.07		7:58:03 AM	0.159	-0.089
7:59:22 AM	0.138		7:59:03 AM	0.311	-0.173
8:00:22 AM	0.13		8:00:03 AM	0.188	-0.058
8:01:22 AM	0.146		8:01:03 AM	0.172	-0.026
8:02:22 AM	0.118		8:02:03 AM	0.211	-0.093
8:03:22 AM	0.137		8:03:03 AM	0.232	-0.095
8:04:22 AM	0.162		8:04:03 AM	0.098	0.064
8:05:22 AM	0.109		8:05:03 AM	0.123	-0.014
8:06:22 AM	0.108		8:06:03 AM	0.121	-0.013

8:07:22 AM	0.138		8:07:03 AM	0.611	-0.473
8:08:22 AM	0.151		8:08:03 AM	0.245	-0.094
8:09:22 AM	0.385		8:09:03 AM	0.132	0.253
8:10:22 AM	0.097		8:10:03 AM	0.191	-0.094
8:11:22 AM	0.084		8:11:03 AM	0.12	-0.036
8:12:22 AM	0.117		8:12:03 AM	0.091	0.026
8:13:22 AM	0.075		8:13:03 AM	0.181	-0.106
8:14:22 AM	0.071		8:14:03 AM	0.139	-0.068
8:15:22 AM	0.211		8:15:03 AM	0.141	0.07
8:16:22 AM	0.102		8:16:03 AM	0.135	-0.033
8:17:22 AM	0.139		8:17:03 AM	0.082	0.057
8:18:22 AM	0.082		8:18:03 AM	0.095	-0.013
8:19:22 AM	0.077		8:19:03 AM	0.156	-0.079
8:20:22 AM	0.085		8:20:03 AM	0.094	-0.009
8:21:22 AM	0.119		8:21:03 AM	0.095	0.024
8:22:22 AM	0.071		8:22:03 AM	0.114	-0.043
8:23:22 AM	0.095		8:23:03 AM	0.112	-0.017
8:24:22 AM	0.103		8:24:03 AM	0.111	-0.008
8:25:22 AM	0.102		8:25:03 AM	0.107	-0.005
8:26:22 AM	0.076		8:26:03 AM	0.103	-0.027
8:27:22 AM	0.075		8:27:03 AM	0.123	-0.048
8:28:22 AM	0.08		8:28:03 AM	0.184	-0.104
8:29:22 AM	0.087		8:29:03 AM	0.093	-0.006
8:30:22 AM	0.106		8:30:03 AM	0.081	0.025
8:31:22 AM	0.057		8:31:03 AM	0.183	-0.126
8:32:22 AM	0.09		8:32:03 AM	0.154	-0.064
8:33:22 AM	0.132		8:33:03 AM	0.11	0.022
8:34:22 AM	0.118		8:34:03 AM	0.061	0.057
8:35:22 AM	0.079		8:35:03 AM	0.07	0.009
8:36:22 AM	0.044		8:36:03 AM	0.101	-0.057
8:37:22 AM	0.071		8:37:03 AM	0.087	-0.016
8:38:22 AM	0.074		8:38:03 AM	0.134	-0.06
8:39:22 AM	0.078		8:39:03 AM	0.125	-0.047
8:40:22 AM	0.08		8:40:03 AM	0.103	-0.023
8:41:22 AM	0.086		8:41:03 AM	0.1	-0.014
8:42:22 AM	0.084		8:42:03 AM	0.082	0.002
8:43:22 AM	0.057		8:43:03 AM	0.107	-0.05
8:44:22 AM	0.063		8:44:03 AM	0.256	-0.193
8:45:22 AM	0.107		8:45:03 AM	0.417	-0.31
8:46:22 AM	0.194		8:46:03 AM	0.193	0.001
8:47:22 AM	0.161		8:47:03 AM	0.232	-0.071
8:48:22 AM	0.132		8:48:03 AM	0.152	-0.02
8:49:22 AM	0.215		8:49:03 AM	0.183	0.032
8:50:22 AM	0.124		8:50:03 AM	0.107	0.017
8:51:22 AM	0.216		8:51:03 AM	0.114	0.102
8:52:22 AM	0.074		8:52:03 AM	0.186	-0.112
8:53:22 AM	0.101		8:53:03 AM	0.104	-0.003
8:54:22 AM	0.096		8:54:03 AM	0.119	-0.023
8:55:22 AM	0.086		8:55:03 AM	0.254	-0.168
8:56:22 AM	0.087		8:56:03 AM	0.091	-0.004
8:57:22 AM	0.107		8:57:03 AM	0.057	0.05
8:58:22 AM	0.078		8:58:03 AM	0.087	-0.009
8:59:22 AM	0.044		8:59:03 AM	0.07	-0.026
9:00:22 AM	0.068		9:00:03 AM	0.261	-0.193
9:01:22 AM	0.052		9:01:03 AM	0.112	-0.06
9:02:22 AM	0.07		9:02:03 AM	0.124	-0.054
9:03:22 AM	0.073		9:03:03 AM	0.11	-0.037
9:04:22 AM	0.078		9:04:03 AM	0.092	-0.014
9:05:22 AM	0.108		9:05:03 AM	0.199	-0.091
9:06:22 AM	0.077		9:06:03 AM	0.171	-0.094
9:07:22 AM	0.064		9:07:03 AM	0.179	-0.115
9:08:22 AM	0.135		9:08:03 AM	0.129	0.006
9:09:22 AM	0.079		9:09:03 AM	0.11	-0.031
9:10:22 AM	0.087		9:10:03 AM	0.124	-0.037
9:11:22 AM	0.074		9:11:03 AM	0.134	-0.06
9:12:22 AM	0.089		9:12:03 AM	0.061	0.028
9:13:22 AM	0.089		9:13:03 AM	0.062	0.027
9:14:22 AM	0.059		9:14:03 AM	0.056	0.003
9:15:22 AM	0.053		9:15:03 AM	0.056	-0.003
9:16:22 AM	0.05		9:16:03 AM	0.077	-0.027
9:17:22 AM	0.044		9:17:03 AM	0.085	-0.041
9:18:22 AM	0.047		9:18:03 AM	0.118	-0.071

9:19:22 AM	0.084	9:19:03 AM	0.099	-0.015
9:20:22 AM	0.08	9:20:03 AM	0.201	-0.121
9:21:22 AM	0.095	9:21:03 AM	0.14	-0.045
9:22:22 AM	0.094	9:22:03 AM	0.14	-0.046
9:23:22 AM	0.144	9:23:03 AM	0.113	0.031
9:24:22 AM	0.081	9:24:03 AM	0.162	-0.081
9:25:22 AM	0.09	9:25:03 AM	0.081	0.009
9:26:22 AM	0.095	9:26:03 AM	0.068	0.027
9:27:22 AM	0.074	9:27:03 AM	0.134	-0.06
9:28:22 AM	0.062	9:28:03 AM	0.163	-0.101
9:29:22 AM	0.099	9:29:03 AM	0.08	0.019
9:30:22 AM	0.12	9:30:03 AM	0.084	0.036
9:31:22 AM	0.132	9:31:03 AM	0.15	-0.018
9:32:22 AM	0.065	9:32:03 AM	0.109	-0.044
9:33:22 AM	0.064	9:33:03 AM	0.104	-0.04
9:34:22 AM	0.133	9:34:03 AM	0.062	0.071
9:35:22 AM	0.085	9:35:03 AM	0.065	0.02
9:36:22 AM	0.089	9:36:03 AM	0.06	0.029
9:37:22 AM	0.052	9:37:03 AM	0.064	-0.012
9:38:22 AM	0.051	9:38:03 AM	0.207	-0.156
9:39:22 AM	0.058	9:39:03 AM	0.19	-0.132
9:40:22 AM	0.037	9:40:03 AM	0.166	-0.129
9:41:22 AM	0.064	9:41:03 AM	0.232	-0.168
9:42:22 AM	0.08	9:42:03 AM	1.1	-1.02
9:43:22 AM	0.082	9:43:03 AM	0.111	-0.029
9:44:22 AM	0.078	9:44:03 AM	0.103	-0.025
9:45:22 AM	0.222	9:45:03 AM	0.136	0.086
9:46:22 AM	0.078	9:46:03 AM	0.094	-0.016
9:47:22 AM	0.055	9:47:03 AM	0.095	-0.04
9:48:22 AM	0.084	9:48:03 AM	0.105	-0.021
9:49:22 AM	0.096	9:49:03 AM	0.099	-0.003
9:50:22 AM	0.092	9:50:03 AM	0.09	0.002
9:51:22 AM	0.101	9:51:03 AM	0.107	-0.006
9:52:22 AM	0.074	9:52:03 AM	0.227	-0.153
9:53:22 AM	0.078	9:53:03 AM	0.174	-0.096
9:54:22 AM	0.067	9:54:03 AM	0.193	-0.126
9:55:22 AM	0.106	9:55:03 AM	0.205	-0.099
9:56:22 AM	0.178	9:56:03 AM	0.135	0.043
9:57:22 AM	0.103	9:57:03 AM	0.136	-0.033
9:58:22 AM	0.108	9:58:03 AM	0.089	0.019
9:59:22 AM	0.079	9:59:03 AM	0.221	-0.142
10:00:22 AM	0.074	10:00:03 AM	0.183	-0.109
10:01:22 AM	0.074	10:01:03 AM	0.102	-0.028
10:02:22 AM	0.07	10:02:03 AM	0.603	-0.533
10:03:22 AM	0.118	10:03:03 AM	0.206	-0.088
10:04:22 AM	0.094	10:04:03 AM	0.108	-0.014
10:05:22 AM	0.07	10:05:03 AM	0.102	-0.032
10:06:22 AM	0.071	10:06:03 AM	0.174	-0.103
10:07:22 AM	0.06	10:07:03 AM	0.104	-0.044
10:08:22 AM	0.091	10:08:03 AM	0.169	-0.078
10:09:22 AM	0.102	10:09:03 AM	0.301	-0.199
10:10:22 AM	0.073	10:10:03 AM	0.254	-0.181
10:11:22 AM	0.104	10:11:03 AM	0.171	-0.067
10:12:22 AM	0.107	10:12:03 AM	0.192	-0.085
10:13:22 AM	0.125	10:13:03 AM	0.225	-0.1
10:14:22 AM	0.137	10:14:03 AM	0.393	-0.256
10:15:22 AM	0.111	10:15:03 AM	0.13	-0.019
10:16:22 AM	0.108	10:16:03 AM	0.122	-0.014
10:17:22 AM	0.102	10:17:03 AM	0.158	-0.056
10:18:22 AM	0.093	10:18:03 AM	0.108	-0.015
10:19:22 AM	0.089	10:19:03 AM	0.13	-0.041
10:20:22 AM	0.086	10:20:03 AM	0.25	-0.164
10:21:22 AM	0.113	10:21:03 AM	0.166	-0.053
10:22:22 AM	0.067	10:22:03 AM	0.108	-0.041
10:23:22 AM	0.081	10:23:03 AM	0.155	-0.074
10:24:22 AM	0.148	10:24:03 AM	0.097	0.051
10:25:22 AM	0.116	10:25:03 AM	0.091	0.025
10:26:22 AM	0.103	10:26:03 AM	0.072	0.031
10:27:22 AM	0.118	10:27:03 AM	0.109	0.009
10:28:22 AM	0.073	10:28:03 AM	0.302	-0.229
10:29:22 AM	0.083	10:29:03 AM	0.405	-0.322
10:30:22 AM	0.063	10:30:03 AM	0.336	-0.273

10:31:22 AM	0.092		10:31:03 AM	0.271	-0.179
10:32:22 AM	0.223		10:32:03 AM	0.108	0.115
10:33:22 AM	0.305		10:33:03 AM	0.125	0.18
10:34:22 AM	0.232		10:34:03 AM	0.277	-0.045
10:35:22 AM	0.171		10:35:03 AM	0.108	0.063
10:36:22 AM	0.096		10:36:03 AM	0.208	-0.112
10:37:22 AM	0.175		10:37:03 AM	0.274	-0.099
10:38:22 AM	0.175		10:38:03 AM	0.208	-0.033
10:39:22 AM	0.121		10:39:03 AM	0.076	0.045
10:40:22 AM	0.128		10:40:03 AM	0.074	0.054
10:41:22 AM	0.173		10:41:03 AM	0.202	-0.029
10:42:22 AM	0.172		10:42:03 AM	0.243	-0.071
10:43:22 AM	0.066		10:43:03 AM	0.284	-0.218
10:44:22 AM	0.072		10:44:03 AM	0.118	-0.046
10:45:22 AM	0.068		10:45:03 AM	0.16	-0.092
10:46:22 AM	0.158		10:46:03 AM	0.214	-0.056
10:47:22 AM	0.176		10:47:03 AM	0.04	0.136
10:48:22 AM	0.093		10:48:03 AM	0.136	-0.043
10:49:22 AM	0.091		10:49:03 AM	0.097	-0.006
10:50:22 AM	0.152		10:50:03 AM	0.086	0.066
10:51:22 AM	0.055		10:51:03 AM	0.052	0.003
10:52:22 AM	0.079		10:52:03 AM	0.3	-0.221
10:53:22 AM	0.144		10:53:03 AM	0.181	-0.037
10:54:22 AM	0.053		10:54:03 AM	0.142	-0.089
10:55:22 AM	0.05		10:55:03 AM	0.221	-0.171
10:56:22 AM	0.058		10:56:03 AM	0.147	-0.089
10:57:22 AM	0.121		10:57:03 AM	0.086	0.035
10:58:22 AM	0.081		10:58:03 AM	0.102	-0.021
10:59:22 AM	0.071		10:59:03 AM	0.113	-0.042
11:00:22 AM	0.059		11:00:03 AM	0.087	-0.028
11:01:22 AM	0.062		11:01:03 AM	0.111	-0.049
11:02:22 AM	0.051		11:02:03 AM	0.123	-0.072
11:03:22 AM	0.1		11:03:03 AM	0.119	-0.019
11:04:22 AM	0.067		11:04:03 AM	0.14	-0.073
11:05:22 AM	0.054		11:05:03 AM	0.203	-0.149
11:06:22 AM	0.061		11:06:03 AM	0.096	-0.035
11:07:22 AM	0.116		11:07:03 AM	0.081	0.035
11:08:22 AM	0.08		11:08:03 AM	0.077	0.003
11:09:22 AM	0.068		11:09:03 AM	0.093	-0.025
11:10:22 AM	0.07		11:10:03 AM	0.088	-0.018
11:11:22 AM	0.064		11:11:03 AM	0.102	-0.038
11:12:22 AM	0.062		11:12:03 AM	0.103	-0.041
11:13:22 AM	0.057		11:13:03 AM	0.179	-0.122
11:14:22 AM	0.072		11:14:03 AM	0.182	-0.11
			11:15:03 AM	0	0
			11:16:03 AM	0.039	-0.039

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_017
Test Start Time	6:31:41 AM
Test Start Date	4/4/2013
Test Length [D:H:M]	0:04:56
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.121
Mass Minimum [mg/m3]	0.04
Mass Maximum [mg/m3]	0.65
Mass TWA [mg/m3]	0.075
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	296

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:31:41 AM	0.29		
6:32:41 AM	0.197		
6:33:41 AM	0.176		
6:34:41 AM	0.151		
6:35:41 AM	0.148		
6:36:41 AM	0.089		
6:37:41 AM	0.174		
6:38:41 AM	0.173		
6:39:41 AM	0.145		
6:40:41 AM	0.088		
6:41:41 AM	0.089		
6:42:41 AM	0.127		
6:43:41 AM	0.178		
6:44:41 AM	0.119		
6:45:41 AM	0.179		
6:46:41 AM	0.07		
6:47:41 AM	0.078		
6:48:41 AM	0.066		
6:49:41 AM	0.07		
6:50:41 AM	0.094		
6:51:41 AM	0.092		
6:52:41 AM	0.078		
6:53:41 AM	0.101		
6:54:41 AM	0.081		
6:55:41 AM	0.502		
6:56:41 AM	0.59		
6:57:41 AM	0.101		
6:58:41 AM	0.061		
6:59:41 AM	0.061		
7:00:41 AM	0.072		
7:01:41 AM	0.074		
7:02:41 AM	0.07		
7:03:41 AM	0.075		
7:04:41 AM	0.089		
7:05:41 AM	0.091		
7:06:41 AM	0.115		
7:07:41 AM	0.07		
7:08:41 AM	0.114		
7:09:41 AM	0.068		
7:10:41 AM	0.092		
7:11:41 AM	0.093		
7:12:41 AM	0.295		
7:13:41 AM	0.136		
7:14:41 AM	0.104		
7:15:41 AM	0.102		
7:16:41 AM	0.123		
7:17:41 AM	0.186		
7:18:41 AM	0.111		
7:19:41 AM	0.125		
7:20:41 AM	0.1		
7:21:41 AM	0.076		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_017
Test Start Time	6:31:14 AM
Test Start Date	4/4/2013
Test Length [D:H:M]	0:14:44
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.118
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	3.52
Mass TWA [mg/m3]	0.064
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	256

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:31:14 AM	0.266			0.024
6:32:14 AM	0.073			0.124
6:33:14 AM	0.152			0.024
6:34:14 AM	0.132			0.019
6:35:14 AM	0.088			0.06
6:36:14 AM	0.102			-0.013
6:37:14 AM	0.099			0.075
6:38:14 AM	0.12			0.053
6:39:14 AM	0.129			0.016
6:40:14 AM	0.134			-0.046
6:41:14 AM	0.074			0.015
6:42:14 AM	0.103			0.024
6:43:14 AM	0.151			0.027
6:44:14 AM	0.11			0.009
6:45:14 AM	0.134			0.045
6:46:14 AM	0.071			-0.001
6:47:14 AM	0.069			0.009
6:48:14 AM	0.062			0.004
6:49:14 AM	0.063			0.007
6:50:14 AM	0.077			0.017
6:51:14 AM	0.096			-0.004
6:52:14 AM	0.069			0.009
6:53:14 AM	0.085			0.016
6:54:14 AM	0.09			-0.009
6:55:14 AM	0.088			0.414
6:56:14 AM	0.083			0.507
6:57:14 AM	0.105			-0.004
6:58:14 AM	0.072			-0.011
6:59:14 AM	0.05			0.011
7:00:14 AM	0.071			0.001
7:01:14 AM	0.074			0
7:02:14 AM	0.054			0.016
7:03:14 AM	0.037			0.038
7:04:14 AM	0.051			0.038
7:05:14 AM	0.065			0.026
7:06:14 AM	0.073			0.042
7:07:14 AM	0.08			-0.01
7:08:14 AM	0.09			0.024
7:09:14 AM	0.097			-0.029
7:10:14 AM	0.082			0.01
7:11:14 AM	0.063			0.03
7:12:14 AM	0.17			0.125
7:13:14 AM	0.137			-0.001
7:14:14 AM	0.107			-0.003
7:15:14 AM	0.1			0.002
7:16:14 AM	0.119			0.004
7:17:14 AM	0.125			0.061
7:18:14 AM	0.096			0.015
7:19:14 AM	0.097			0.028
7:20:14 AM	0.08			0.02
7:21:14 AM	0.12			-0.044

7:22:41 AM	0.103		7:22:14 AM	0.165	-0.062
7:23:41 AM	0.112		7:23:14 AM	0.112	0
7:24:41 AM	0.087		7:24:14 AM	0.113	-0.026
7:25:41 AM	0.081		7:25:14 AM	0.432	-0.351
7:26:41 AM	0.092		7:26:14 AM	0.085	0.007
7:27:41 AM	0.081		7:27:14 AM	0.062	0.019
7:28:41 AM	0.076		7:28:14 AM	0.066	0.01
7:29:41 AM	0.09		7:29:14 AM	0.086	0.004
7:30:41 AM	0.087		7:30:14 AM	0.071	0.016
7:31:41 AM	0.078		7:31:14 AM	0.106	-0.028
7:32:41 AM	0.122		7:32:14 AM	0.146	-0.024
7:33:41 AM	0.101		7:33:14 AM	0.066	0.035
7:34:41 AM	0.07		7:34:14 AM	0.086	-0.016
7:35:41 AM	0.115		7:35:14 AM	0.095	0.02
7:36:41 AM	0.093		7:36:14 AM	0.102	-0.009
7:37:41 AM	0.103		7:37:14 AM	0.103	0
7:38:41 AM	0.106		7:38:14 AM	0.099	0.007
7:39:41 AM	0.097		7:39:14 AM	0.086	0.011
7:40:41 AM	0.083		7:40:14 AM	0.112	-0.029
7:41:41 AM	0.15		7:41:14 AM	0.159	-0.009
7:42:41 AM	0.137		7:42:14 AM	0.151	-0.014
7:43:41 AM	0.171		7:43:14 AM	0.145	0.026
7:44:41 AM	0.179		7:44:14 AM	0.162	0.017
7:45:41 AM	0.24		7:45:14 AM	0.326	-0.086
7:46:41 AM	0.285		7:46:14 AM	0.28	0.005
7:47:41 AM	0.171		7:47:14 AM	0.095	0.076
7:48:41 AM	0.066		7:48:14 AM	0.111	-0.045
7:49:41 AM	0.132		7:49:14 AM	0.102	0.03
7:50:41 AM	0.048		7:50:14 AM	0.08	-0.032
7:51:41 AM	0.115		7:51:14 AM	0.109	0.006
7:52:41 AM	0.135		7:52:14 AM	0.071	0.064
7:53:41 AM	0.087		7:53:14 AM	0.076	0.011
7:54:41 AM	0.079		7:54:14 AM	0.268	-0.189
7:55:41 AM	0.398		7:55:14 AM	0.149	0.249
7:56:41 AM	0.089		7:56:14 AM	0.1	-0.011
7:57:41 AM	0.18		7:57:14 AM	0.162	0.018
7:58:41 AM	0.139		7:58:14 AM	0.189	-0.05
7:59:41 AM	0.121		7:59:14 AM	0.096	0.025
8:00:41 AM	0.079		8:00:14 AM	0.089	-0.01
8:01:41 AM	0.1		8:01:14 AM	0.099	0.001
8:02:41 AM	0.071		8:02:14 AM	0.089	-0.018
8:03:41 AM	0.109		8:03:14 AM	0.071	0.038
8:04:41 AM	0.06		8:04:14 AM	0.068	-0.008
8:05:41 AM	0.06		8:05:14 AM	0.08	-0.02
8:06:41 AM	0.09		8:06:14 AM	0.306	-0.216
8:07:41 AM	0.374		8:07:14 AM	0.15	0.224
8:08:41 AM	0.103		8:08:14 AM	0.067	0.036
8:09:41 AM	0.172		8:09:14 AM	0.083	0.089
8:10:41 AM	0.083		8:10:14 AM	0.111	-0.028
8:11:41 AM	0.139		8:11:14 AM	0.108	0.031
8:12:41 AM	0.066		8:12:14 AM	0.081	-0.015
8:13:41 AM	0.087		8:13:14 AM	0.114	-0.027
8:14:41 AM	0.089		8:14:14 AM	0.099	-0.01
8:15:41 AM	0.074		8:15:14 AM	0.058	0.016
8:16:41 AM	0.057		8:16:14 AM	0.063	-0.006
8:17:41 AM	0.046		8:17:14 AM	0.081	-0.035
8:18:41 AM	0.119		8:18:14 AM	0.11	0.009
8:19:41 AM	0.059		8:19:14 AM	0.121	-0.062
8:20:41 AM	0.089		8:20:14 AM	0.1	-0.011
8:21:41 AM	0.099		8:21:14 AM	0.085	0.014
8:22:41 AM	0.111		8:22:14 AM	0.068	0.043
8:23:41 AM	0.047		8:23:14 AM	0.119	-0.072
8:24:41 AM	0.083		8:24:14 AM	0.179	-0.096
8:25:41 AM	0.124		8:25:14 AM	0.227	-0.103
8:26:41 AM	0.151		8:26:14 AM	0.083	0.068
8:27:41 AM	0.14		8:27:14 AM	0.075	0.065
8:28:41 AM	0.085		8:28:14 AM	0.081	0.004
8:29:41 AM	0.072		8:29:14 AM	0.1	-0.028
8:30:41 AM	0.087		8:30:14 AM	0.113	-0.026
8:31:41 AM	0.142		8:31:14 AM	0.069	0.073
8:32:41 AM	0.07		8:32:14 AM	0.115	-0.045
8:33:41 AM	0.09		8:33:14 AM	0.156	-0.066

8:34:41 AM	0.127		8:34:14 AM	0.134	-0.007
8:35:41 AM	0.138		8:35:14 AM	0.099	0.039
8:36:41 AM	0.65		8:36:14 AM	0.1	0.55
8:37:41 AM	0.101		8:37:14 AM	0.881	-0.78
8:38:41 AM	0.187		8:38:14 AM	0.081	0.106
8:39:41 AM	0.081		8:39:14 AM	0.086	-0.005
8:40:41 AM	0.066		8:40:14 AM	0.041	0.025
8:41:41 AM	0.045		8:41:14 AM	0.039	0.006
8:42:41 AM	0.04		8:42:14 AM	0.042	-0.002
8:43:41 AM	0.055		8:43:14 AM	0.043	0.012
8:44:41 AM	0.044		8:44:14 AM	0.043	0.001
8:45:41 AM	0.04		8:45:14 AM	0.124	-0.084
8:46:41 AM	0.067		8:46:14 AM	0.131	-0.064
8:47:41 AM	0.115		8:47:14 AM	0.102	0.013
8:48:41 AM	0.109		8:48:14 AM	0.056	0.053
8:49:41 AM	0.066		8:49:14 AM	0.056	0.01
8:50:41 AM	0.052		8:50:14 AM	0.096	-0.044
8:51:41 AM	0.057		8:51:14 AM	0.12	-0.063
8:52:41 AM	0.078		8:52:14 AM	0.103	-0.025
8:53:41 AM	0.109		8:53:14 AM	0.098	0.011
8:54:41 AM	0.111		8:54:14 AM	0.123	-0.012
8:55:41 AM	0.109		8:55:14 AM	0.099	0.01
8:56:41 AM	0.093		8:56:14 AM	0.073	0.02
8:57:41 AM	0.123		8:57:14 AM	0.087	0.036
8:58:41 AM	0.087		8:58:14 AM	0.059	0.028
8:59:41 AM	0.089		8:59:14 AM	0.069	0.02
9:00:41 AM	0.075		9:00:14 AM	0.081	-0.006
9:01:41 AM	0.079		9:01:14 AM	0.111	-0.032
9:02:41 AM	0.112		9:02:14 AM	0.118	-0.006
9:03:41 AM	0.127		9:03:14 AM	0.068	0.059
9:04:41 AM	0.116		9:04:14 AM	0.074	0.042
9:05:41 AM	0.068		9:05:14 AM	0.101	-0.033
9:06:41 AM	0.06		9:06:14 AM	0.095	-0.035
9:07:41 AM	0.083		9:07:14 AM	0.084	-0.001
9:08:41 AM	0.109		9:08:14 AM	0.063	0.046
9:09:41 AM	0.091		9:09:14 AM	0.079	0.012
9:10:41 AM	0.053		9:10:14 AM	0.09	-0.037
9:11:41 AM	0.064		9:11:14 AM	0.071	-0.007
9:12:41 AM	0.1		9:12:14 AM	0.086	0.014
9:13:41 AM	0.079		9:13:14 AM	0.072	0.007
9:14:41 AM	0.102		9:14:14 AM	0.091	0.011
9:15:41 AM	0.054		9:15:14 AM	0.094	-0.04
9:16:41 AM	0.079		9:16:14 AM	0.08	-0.001
9:17:41 AM	0.082		9:17:14 AM	0.072	0.01
9:18:41 AM	0.082		9:18:14 AM	0.041	0.041
9:19:41 AM	0.09		9:19:14 AM	0.041	0.049
9:20:41 AM	0.044		9:20:14 AM	0.161	-0.117
9:21:41 AM	0.047		9:21:14 AM	0.07	-0.023
9:22:41 AM	0.083		9:22:14 AM	0.045	0.038
9:23:41 AM	0.088		9:23:14 AM	0.085	0.003
9:24:41 AM	0.042		9:24:14 AM	0.071	-0.029
9:25:41 AM	0.087		9:25:14 AM	0.075	0.012
9:26:41 AM	0.078		9:26:14 AM	0.082	-0.004
9:27:41 AM	0.153		9:27:14 AM	0.092	0.061
9:28:41 AM	0.187		9:28:14 AM	0.105	0.082
9:29:41 AM	0.105		9:29:14 AM	0.09	0.015
9:30:41 AM	0.171		9:30:14 AM	0.057	0.114
9:31:41 AM	0.139		9:31:14 AM	0.045	0.094
9:32:41 AM	0.064		9:32:14 AM	0.077	-0.013
9:33:41 AM	0.048		9:33:14 AM	0.083	-0.035
9:34:41 AM	0.065		9:34:14 AM	0.099	-0.034
9:35:41 AM	0.123		9:35:14 AM	0.087	0.036
9:36:41 AM	0.109		9:36:14 AM	0.085	0.024
9:37:41 AM	0.079		9:37:14 AM	0.079	0
9:38:41 AM	0.08		9:38:14 AM	0.09	-0.01
9:39:41 AM	0.078		9:39:14 AM	0.075	0.003
9:40:41 AM	0.085		9:40:14 AM	0.094	-0.009
9:41:41 AM	0.051		9:41:14 AM	0.066	-0.015
9:42:41 AM	0.087		9:42:14 AM	0.205	-0.118
9:43:41 AM	0.17		9:43:14 AM	0.306	-0.136
9:44:41 AM	0.177		9:44:14 AM	0.26	-0.083
9:45:41 AM	0.524		9:45:14 AM	0.15	0.374

9:46:41 AM	0.317		9:46:14 AM	0.157	0.16
9:47:41 AM	0.326		9:47:14 AM	0.107	0.219
9:48:41 AM	0.194		9:48:14 AM	0.076	0.118
9:49:41 AM	0.157		9:49:14 AM	0.104	0.053
9:50:41 AM	0.109		9:50:14 AM	0.083	0.026
9:51:41 AM	0.066		9:51:14 AM	0.091	-0.025
9:52:41 AM	0.112		9:52:14 AM	0.078	0.034
9:53:41 AM	0.114		9:53:14 AM	0.084	0.03
9:54:41 AM	0.08		9:54:14 AM	0.049	0.031
9:55:41 AM	0.073		9:55:14 AM	0.058	0.015
9:56:41 AM	0.078		9:56:14 AM	0.085	-0.007
9:57:41 AM	0.058		9:57:14 AM	3.52	-3.462
9:58:41 AM	0.052		9:58:14 AM	0.139	-0.087
9:59:41 AM	0.101		9:59:14 AM	0.112	-0.011
10:00:41 AM	0.078		10:00:14 AM	0.116	-0.038
10:01:41 AM	0.085		10:01:14 AM	0.078	0.007
10:02:41 AM	0.073		10:02:14 AM	0.107	-0.034
10:03:41 AM	0.084		10:03:14 AM	0.128	-0.044
10:04:41 AM	0.089		10:04:14 AM	0.101	-0.012
10:05:41 AM	0.533		10:05:14 AM	0.081	0.452
10:06:41 AM	0.111		10:06:14 AM	0.066	0.045
10:07:41 AM	0.104		10:07:14 AM	0.047	0.057
10:08:41 AM	0.079		10:08:14 AM	0.078	0.001
10:09:41 AM	0.072		10:09:14 AM	0.085	-0.013
10:10:41 AM	0.052		10:10:14 AM	0.119	-0.067
10:11:41 AM	0.085		10:11:14 AM	0.078	0.007
10:12:41 AM	0.09		10:12:14 AM	0.051	0.039
10:13:41 AM	0.089		10:13:14 AM	0.106	-0.017
10:14:41 AM	0.075		10:14:14 AM	0.128	-0.053
10:15:41 AM	0.051		10:15:14 AM	0.097	-0.046
10:16:41 AM	0.097		10:16:14 AM	0.068	0.029
10:17:41 AM	0.098		10:17:14 AM	0.272	-0.174
10:18:41 AM	0.109		10:18:14 AM	0.138	-0.029
10:19:41 AM	0.087		10:19:14 AM	0.112	-0.025
10:20:41 AM	0.173		10:20:14 AM	0.074	0.099
10:21:41 AM	0.143		10:21:14 AM	0.145	-0.002
10:22:41 AM	0.346		10:22:14 AM	0.11	0.236
10:23:41 AM	0.069		10:23:14 AM	0.073	-0.004
10:24:41 AM	0.105		10:24:14 AM	0.168	-0.063
10:25:41 AM	0.111		10:25:14 AM	0.149	-0.038
10:26:41 AM	0.075		10:26:14 AM	0.198	-0.123
10:27:41 AM	0.081		10:27:14 AM	0.113	-0.032
10:28:41 AM	0.196		10:28:14 AM	0.095	0.101
10:29:41 AM	0.135		10:29:14 AM	0.051	0.084
10:30:41 AM	0.142		10:30:14 AM	0.101	0.041
10:31:41 AM	0.104		10:31:14 AM	0.104	0
10:32:41 AM	0.061		10:32:14 AM	0.136	-0.075
10:33:41 AM	0.059		10:33:14 AM	0.078	Flow Error -0.019
10:34:41 AM	0.084		10:34:14 AM	0.137	Flow Error -0.053
10:35:41 AM	0.184		10:35:14 AM	0.169	Flow Error 0.015
10:36:41 AM	0.085		10:36:14 AM	0.059	Flow Error 0.026
10:37:41 AM	0.08		10:37:14 AM	0.105	Flow Error -0.025
10:38:41 AM	0.173		10:38:14 AM	0.253	Flow Error -0.08
10:39:41 AM	0.189		10:39:14 AM	0.158	Flow Error 0.031
10:40:41 AM	0.288		10:40:14 AM	0	0.288
10:41:41 AM	0.071		10:41:14 AM	0.01	0.061
10:42:41 AM	0.107		10:42:14 AM	0.01	Flow Error 0.097
10:43:41 AM	0.082		10:43:14 AM	0.009	Flow Error 0.073
10:44:41 AM	0.147		10:44:14 AM	0.009	Flow Error 0.138
10:45:41 AM	0.136		10:45:14 AM	0.009	Flow Error 0.127
10:46:41 AM	0.119		10:46:14 AM	0.009	Flow Error 0.11
10:47:41 AM	0.311				0.311
10:48:41 AM	0.155				0.155
10:49:41 AM	0.116				0.116
10:50:41 AM	0.132				0.132
10:51:41 AM	0.131				0.131
10:52:41 AM	0.164				0.164
10:53:41 AM	0.094				0.094
10:54:41 AM	0.113				0.113
10:55:41 AM	0.116				0.116
10:56:41 AM	0.145				0.145
10:57:41 AM	0.17				0.17

10:58:41 AM	0.18	0.18
10:59:41 AM	0.125	0.125
11:00:41 AM	0.177	0.177
11:01:41 AM	0.221	0.221
11:02:41 AM	0.12	0.12
11:03:41 AM	0.094	0.094
11:04:41 AM	0.088	0.088
11:05:41 AM	0.14	0.14
11:06:41 AM	0.092	0.092
11:07:41 AM	0.195	0.195
11:08:41 AM	0.146	0.146
11:09:41 AM	0.38	0.38
11:10:41 AM	0.355	0.355
11:11:41 AM	0.137	0.137
11:12:41 AM	0.132	0.132
11:13:41 AM	0.096	0.096
11:14:41 AM	0.069	0.069
11:15:41 AM	0.081	0.081
11:16:41 AM	0.11	0.11
11:17:41 AM	0.213	0.213
11:18:41 AM	0.114	0.114
11:19:41 AM	0.086	0.086
11:20:41 AM	0.186	0.186
11:21:41 AM	0.115	0.115
11:22:41 AM	0.094	0.094
11:23:41 AM	0.102	0.102
11:24:41 AM	0.133	0.133
11:25:41 AM	0.173	0.173
11:26:41 AM	0.14	0.14

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_018
Test Start Time	6:02:41 AM
Test Start Date	4/5/2013
Test Length [D:H:M]	0:05:22
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.235
Mass Minimum [mg/m3]	0.133
Mass Maximum [mg/m3]	2.53
Mass TWA [mg/m3]	0.158
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	322

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:02:41 AM	0.806		
6:03:41 AM	0.487		
6:04:41 AM	0.569		
6:05:41 AM	0.214		
6:06:41 AM	0.225		
6:07:41 AM	0.168		
6:08:41 AM	0.186		
6:09:41 AM	0.138		
6:10:41 AM	0.133		
6:11:41 AM	0.152		
6:12:41 AM	0.175		
6:13:41 AM	0.214		
6:14:41 AM	0.225		
6:15:41 AM	0.383		
6:16:41 AM	0.275		
6:17:41 AM	0.228		
6:18:41 AM	0.242		
6:19:41 AM	0.212		
6:20:41 AM	0.222		
6:21:41 AM	0.154		
6:22:41 AM	0.184		
6:23:41 AM	0.166		
6:24:41 AM	0.147		
6:25:41 AM	0.207		
6:26:41 AM	0.201		
6:27:41 AM	0.2		
6:28:41 AM	0.207		
6:29:41 AM	0.251		
6:30:41 AM	0.175		
6:31:41 AM	0.135		
6:32:41 AM	0.14		
6:33:41 AM	0.136		
6:34:41 AM	0.134		
6:35:41 AM	0.177		
6:36:41 AM	0.178		
6:37:41 AM	0.15		
6:38:41 AM	0.153		
6:39:41 AM	0.162		
6:40:41 AM	0.161		
6:41:41 AM	0.245		
6:42:41 AM	0.257		
6:43:41 AM	0.237		
6:44:41 AM	0.27		
6:45:41 AM	0.318		
6:46:41 AM	0.247		
6:47:41 AM	0.291		
6:48:41 AM	0.264		
6:49:41 AM	0.264		
6:50:41 AM	0.35		
6:51:41 AM	0.657		
6:52:41 AM	0.148		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_018
Test Start Time	6:02:11 AM
Test Start Date	4/5/2013
Test Length [D:H:M]	0:05:21
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.113
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.928
Mass TWA [mg/m3]	0.075
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	250

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:02:11 AM	0.012		Flow Error	0.794
6:03:11 AM	0.008		Flow Error	0.479
6:04:11 AM	0.009		Flow Error	0.56
6:05:11 AM	0.01		Flow Error	0.204
6:06:11 AM	0.008		Flow Error	0.217
6:07:11 AM	0			0.168
6:08:11 AM	0.501			-0.315
6:09:11 AM	0.17			-0.032
6:10:11 AM	0.084			0.049
6:11:11 AM	0.046			0.106
6:12:11 AM	0.041			0.134
6:13:11 AM	0.038			0.176
6:14:11 AM	0.044			0.181
6:15:11 AM	0.059			0.324
6:16:11 AM	0.043			0.232
6:17:11 AM	0.043			0.185
6:18:11 AM	0.038			0.204
6:19:11 AM	0.039			0.173
6:20:11 AM	0.112			0.11
6:21:11 AM	0.09			0.064
6:22:11 AM	0.049			0.135
6:23:11 AM	0.048			0.118
6:24:11 AM	0.097			0.05
6:25:11 AM	0.126			0.081
6:26:11 AM	0.066			0.135
6:27:11 AM	0.044			0.156
6:28:11 AM	0.047			0.16
6:29:11 AM	0.042			0.209
6:30:11 AM	0.042			0.133
6:31:11 AM	0.064			0.071
6:32:11 AM	0.094			0.046
6:33:11 AM	0.07			0.066
6:34:11 AM	0.048			0.086
6:35:11 AM	0.068			0.109
6:36:11 AM	0.081			0.097
6:37:11 AM	0.06			0.09
6:38:11 AM	0.056			0.097
6:39:11 AM	0.072			0.09
6:40:11 AM	0.115			0.046
6:41:11 AM	0.123			0.122
6:42:11 AM	0.065			0.192
6:43:11 AM	0.123			0.114
6:44:11 AM	0.089			0.181
6:45:11 AM	0.13			0.188
6:46:11 AM	0.096			0.151
6:47:11 AM	0.056			0.235
6:48:11 AM	0.064			0.2
6:49:11 AM	0.148			0.116
6:50:11 AM	0.093			0.257
6:51:11 AM	0.083			0.574
6:52:11 AM	0.056			0.092

6:53:41 AM	0.209		6:53:11 AM	0.047	0.162
6:54:41 AM	0.187		6:54:11 AM	0.073	0.114
6:55:41 AM	0.172		6:55:11 AM	0.057	0.115
6:56:41 AM	0.157		6:56:11 AM	0.323	-0.166
6:57:41 AM	0.141		6:57:11 AM	0.245	-0.104
6:58:41 AM	0.143		6:58:11 AM	0.069	0.074
6:59:41 AM	0.146		6:59:11 AM	0.068	0.078
7:00:41 AM	0.164		7:00:11 AM	0.054	0.11
7:01:41 AM	0.154		7:01:11 AM	0.083	0.071
7:02:41 AM	0.169		7:02:11 AM	0.062	0.107
7:03:41 AM	0.216		7:03:11 AM	0.059	0.157
7:04:41 AM	0.212		7:04:11 AM	0.051	0.161
7:05:41 AM	0.288		7:05:11 AM	0.078	0.21
7:06:41 AM	0.172		7:06:11 AM	0.084	0.088
7:07:41 AM	0.139		7:07:11 AM	0.1	0.039
7:08:41 AM	0.138		7:08:11 AM	0.082	0.056
7:09:41 AM	0.138		7:09:11 AM	0.06	0.078
7:10:41 AM	0.158		7:10:11 AM	0.093	0.065
7:11:41 AM	0.229		7:11:11 AM	0.143	0.086
7:12:41 AM	0.21		7:12:11 AM	0.075	0.135
7:13:41 AM	0.174		7:13:11 AM	0.095	0.079
7:14:41 AM	0.195		7:14:11 AM	0.055	0.14
7:15:41 AM	0.217		7:15:11 AM	0.066	0.151
7:16:41 AM	0.275		7:16:11 AM	0.063	0.212
7:17:41 AM	0.209		7:17:11 AM	0.064	0.145
7:18:41 AM	0.17		7:18:11 AM	0.061	0.109
7:19:41 AM	0.155		7:19:11 AM	0.09	0.065
7:20:41 AM	0.14		7:20:11 AM	0.134	0.006
7:21:41 AM	0.142		7:21:11 AM	0.15	-0.008
7:22:41 AM	0.152		7:22:11 AM	0.136	0.016
7:23:41 AM	0.209		7:23:11 AM	0.135	0.074
7:24:41 AM	0.209		7:24:11 AM	0.098	0.111
7:25:41 AM	0.227		7:25:11 AM	0.129	0.098
7:26:41 AM	0.205		7:26:11 AM	0.127	0.078
7:27:41 AM	0.166		7:27:11 AM	0.156	0.01
7:28:41 AM	0.158		7:28:11 AM	0.127	0.031
7:29:41 AM	0.29		7:29:11 AM	0.122	0.168
7:30:41 AM	0.267		7:30:11 AM	0.1	0.167
7:31:41 AM	0.234		7:31:11 AM	0.071	0.163
7:32:41 AM	0.227		7:32:11 AM	0.067	0.16
7:33:41 AM	0.214		7:33:11 AM	0.184	0.03
7:34:41 AM	0.162		7:34:11 AM	0.115	0.047
7:35:41 AM	0.154		7:35:11 AM	0.146	0.008
7:36:41 AM	0.169		7:36:11 AM	0.124	0.045
7:37:41 AM	0.156		7:37:11 AM	0.126	0.03
7:38:41 AM	0.154		7:38:11 AM	0.169	-0.015
7:39:41 AM	0.146		7:39:11 AM	0.097	0.049
7:40:41 AM	0.146		7:40:11 AM	0.059	0.087
7:41:41 AM	0.145		7:41:11 AM	0.081	0.064
7:42:41 AM	0.174		7:42:11 AM	0.208	-0.034
7:43:41 AM	0.195		7:43:11 AM	0.226	-0.031
7:44:41 AM	0.174		7:44:11 AM	0.137	0.037
7:45:41 AM	0.168		7:45:11 AM	0.097	0.071
7:46:41 AM	0.185		7:46:11 AM	0.142	0.043
7:47:41 AM	0.161		7:47:11 AM	0.09	0.071
7:48:41 AM	0.213		7:48:11 AM	0.124	0.089
7:49:41 AM	0.179		7:49:11 AM	0.144	0.035
7:50:41 AM	0.322		7:50:11 AM	0.077	0.245
7:51:41 AM	0.299		7:51:11 AM	0.09	0.209
7:52:41 AM	0.21		7:52:11 AM	0.098	0.112
7:53:41 AM	0.152		7:53:11 AM	0.089	0.063
7:54:41 AM	0.16		7:54:11 AM	0.112	0.048
7:55:41 AM	0.171		7:55:11 AM	0.097	0.074
7:56:41 AM	0.159		7:56:11 AM	0.328	-0.169
7:57:41 AM	0.171		7:57:11 AM	0.122	0.049
7:58:41 AM	0.227		7:58:11 AM	0.135	0.092
7:59:41 AM	0.262		7:59:11 AM	0.194	0.068
8:00:41 AM	0.259		8:00:11 AM	0.13	0.129
8:01:41 AM	0.257		8:01:11 AM	0.148	0.109
8:02:41 AM	0.25		8:02:11 AM	0.177	0.073
8:03:41 AM	0.232		8:03:11 AM	0.928	-0.696
8:04:41 AM	0.202		8:04:11 AM	0.756	-0.554

8:05:41 AM	0.244		8:05:11 AM	0.398	-0.154
8:06:41 AM	0.293		8:06:11 AM	0.502	-0.209
8:07:41 AM	0.298		8:07:11 AM	0.31	-0.012
8:08:41 AM	0.279		8:08:11 AM	0.51	-0.231
8:09:41 AM	0.273		8:09:11 AM	0	0.273
8:10:41 AM	0.301		8:10:11 AM	0.234	0.067
8:11:41 AM	0.303		8:11:11 AM	0.113	0.19
8:12:41 AM	0.253		8:12:11 AM	0.069	0.184
8:13:41 AM	0.183		8:13:11 AM	0.076	0.107
8:14:41 AM	0.231		8:14:11 AM	0.081	0.15
8:15:41 AM	0.265		8:15:11 AM	0.082	0.183
8:16:41 AM	0.229		8:16:11 AM	0.088	0.141
8:17:41 AM	0.219		8:17:11 AM	0.088	0.131
8:18:41 AM	0.186		8:18:11 AM	0.118	0.068
8:19:41 AM	0.242		8:19:11 AM	0.102	0.14
8:20:41 AM	0.212		8:20:11 AM	0.088	0.124
8:21:41 AM	0.186		8:21:11 AM	0.679	-0.493
8:22:41 AM	0.22		8:22:11 AM	0.133	0.087
8:23:41 AM	0.224		8:23:11 AM	0.1	0.124
8:24:41 AM	0.224		8:24:11 AM	0.072	0.152
8:25:41 AM	0.199		8:25:11 AM	0.069	0.13
8:26:41 AM	0.182		8:26:11 AM	0.072	0.11
8:27:41 AM	0.184		8:27:11 AM	0.077	0.107
8:28:41 AM	0.171		8:28:11 AM	0.073	0.098
8:29:41 AM	0.241		8:29:11 AM	0.074	0.167
8:30:41 AM	0.208		8:30:11 AM	0.103	0.105
8:31:41 AM	0.17		8:31:11 AM	0.165	0.005
8:32:41 AM	0.23		8:32:11 AM	0.11	0.12
8:33:41 AM	0.258		8:33:11 AM	0.083	0.175
8:34:41 AM	0.237		8:34:11 AM	0.076	0.161
8:35:41 AM	0.186		8:35:11 AM	0.093	0.093
8:36:41 AM	0.181		8:36:11 AM	0.09	0.091
8:37:41 AM	0.169		8:37:11 AM	0.079	0.09
8:38:41 AM	0.185		8:38:11 AM	0.095	0.09
8:39:41 AM	0.165		8:39:11 AM	0.129	0.036
8:40:41 AM	0.182		8:40:11 AM	0.141	0.041
8:41:41 AM	0.184		8:41:11 AM	0.11	0.074
8:42:41 AM	0.181		8:42:11 AM	0.118	0.063
8:43:41 AM	0.168		8:43:11 AM	0.074	0.094
8:44:41 AM	0.227		8:44:11 AM	0.092	0.135
8:45:41 AM	0.203		8:45:11 AM	0.079	0.124
8:46:41 AM	0.182		8:46:11 AM	0.085	0.097
8:47:41 AM	0.185		8:47:11 AM	0.092	0.093
8:48:41 AM	0.196		8:48:11 AM	0.121	0.075
8:49:41 AM	0.204		8:49:11 AM	0.138	0.066
8:50:41 AM	0.211		8:50:11 AM	0.135	0.076
8:51:41 AM	0.186		8:51:11 AM	0.095	0.091
8:52:41 AM	0.174		8:52:11 AM	0.275	-0.101
8:53:41 AM	0.165		8:53:11 AM	0.116	0.049
8:54:41 AM	0.175		8:54:11 AM	0.07	0.105
8:55:41 AM	0.17		8:55:11 AM	0.075	0.095
8:56:41 AM	0.184		8:56:11 AM	0.088	0.096
8:57:41 AM	0.178		8:57:11 AM	0.083	0.095
8:58:41 AM	0.231		8:58:11 AM	0.06	0.171
8:59:41 AM	0.291		8:59:11 AM	0.074	0.217
9:00:41 AM	0.191		9:00:11 AM	0.122	0.069
9:01:41 AM	0.2		9:01:11 AM	0.08	0.12
9:02:41 AM	0.256		9:02:11 AM	0.12	0.136
9:03:41 AM	0.187		9:03:11 AM	0.117	0.07
9:04:41 AM	0.175		9:04:11 AM	0.094	0.081
9:05:41 AM	0.278		9:05:11 AM	0.075	0.203
9:06:41 AM	0.343		9:06:11 AM	0.071	0.272
9:07:41 AM	0.285		9:07:11 AM	0.074	0.211
9:08:41 AM	0.22		9:08:11 AM	0.071	0.149
9:09:41 AM	0.182		9:09:11 AM	0.069	0.113
9:10:41 AM	0.194		9:10:11 AM	0.061	0.133
9:11:41 AM	0.2		9:11:11 AM	0.076	0.124
9:12:41 AM	0.214		9:12:11 AM	0.109	0.105
9:13:41 AM	0.211		9:13:11 AM	0.129	0.082
9:14:41 AM	0.187		9:14:11 AM	0.102	0.085
9:15:41 AM	0.241		9:15:11 AM	0.093	0.148
9:16:41 AM	0.26		9:16:11 AM	0.072	0.188

9:17:41 AM	0.215		9:17:11 AM	0.135	0.08
9:18:41 AM	0.185		9:18:11 AM	0.129	0.056
9:19:41 AM	0.203		9:19:11 AM	0.082	0.121
9:20:41 AM	0.187		9:20:11 AM	0.076	0.111
9:21:41 AM	0.178		9:21:11 AM	0.07	0.108
9:22:41 AM	0.196		9:22:11 AM	0.079	0.117
9:23:41 AM	0.184		9:23:11 AM	0.095	0.089
9:24:41 AM	0.18		9:24:11 AM	0.081	0.099
9:25:41 AM	0.181		9:25:11 AM	0.067	0.114
9:26:41 AM	0.205		9:26:11 AM	0.076	0.129
9:27:41 AM	0.199		9:27:11 AM	0.082	0.117
9:28:41 AM	0.187		9:28:11 AM	0.072	0.115
9:29:41 AM	0.199		9:29:11 AM	0.074	0.125
9:30:41 AM	0.179		9:30:11 AM	0.068	0.111
9:31:41 AM	0.207		9:31:11 AM	0.066	0.141
9:32:41 AM	0.197		9:32:11 AM	0.065	0.132
9:33:41 AM	0.184		9:33:11 AM	0.076	0.108
9:34:41 AM	0.176		9:34:11 AM	0.08	0.096
9:35:41 AM	0.202		9:35:11 AM	0.066	0.136
9:36:41 AM	0.195		9:36:11 AM	0.062	0.133
9:37:41 AM	0.18		9:37:11 AM	0.06	0.12
9:38:41 AM	0.26		9:38:11 AM	0.06	0.2
9:39:41 AM	0.209		9:39:11 AM	0.085	0.124
9:40:41 AM	0.203		9:40:11 AM	0.149	0.054
9:41:41 AM	0.265		9:41:11 AM	0.146	0.119
9:42:41 AM	0.22		9:42:11 AM	0.109	0.111
9:43:41 AM	0.193		9:43:11 AM	0.085	0.108
9:44:41 AM	0.213		9:44:11 AM	0.075	0.138
9:45:41 AM	0.205		9:45:11 AM	0.109	0.096
9:46:41 AM	0.18		9:46:11 AM	0.084	0.096
9:47:41 AM	0.18		9:47:11 AM	0.08	0.1
9:48:41 AM	0.2		9:48:11 AM	0.077	0.123
9:49:41 AM	0.22		9:49:11 AM	0.085	0.135
9:50:41 AM	0.222		9:50:11 AM	0.096	0.126
9:51:41 AM	0.248		9:51:11 AM	0.106	0.142
9:52:41 AM	0.19		9:52:11 AM	0.087	0.103
9:53:41 AM	0.295		9:53:11 AM	0.051	0.244
9:54:41 AM	0.257		9:54:11 AM	0.072	0.185
9:55:41 AM	0.233		9:55:11 AM	0.062	0.171
9:56:41 AM	0.181		9:56:11 AM	0.096	0.085
9:57:41 AM	0.208		9:57:11 AM	0.067	0.141
9:58:41 AM	0.193		9:58:11 AM	0.152	0.041
9:59:41 AM	0.204		9:59:11 AM	0.344	-0.14
10:00:41 AM	0.203		10:00:11 AM	0.218	-0.015
10:01:41 AM	0.244		10:01:11 AM	0.104	0.14
10:02:41 AM	0.207		10:02:11 AM	0.099	0.108
10:03:41 AM	0.237		10:03:11 AM	0.062	0.175
10:04:41 AM	0.173		10:04:11 AM	0.059	0.114
10:05:41 AM	0.197		10:05:11 AM	0.062	0.135
10:06:41 AM	0.23		10:06:11 AM	0.584	-0.354
10:07:41 AM	0.186		10:07:11 AM	0.254	-0.068
10:08:41 AM	0.234		10:08:11 AM	0.132	0.102
10:09:41 AM	0.354		10:09:11 AM	0.083	0.271
10:10:41 AM	0.194		10:10:11 AM	0.064	0.13
10:11:41 AM	0.262		10:11:11 AM	0.073	0.189
10:12:41 AM	0.32				0.32
10:13:41 AM	0.228				0.228
10:14:41 AM	0.226				0.226
10:15:41 AM	0.181				0.181
10:16:41 AM	0.218				0.218
10:17:41 AM	0.234				0.234
10:18:41 AM	0.228				0.228
10:19:41 AM	0.181				0.181
10:20:41 AM	0.191				0.191
10:21:41 AM	0.235				0.235
10:22:41 AM	0.223				0.223
10:23:41 AM	0.204				0.204
10:24:41 AM	0.233				0.233
10:25:41 AM	0.189				0.189
10:26:41 AM	0.225				0.225
10:27:41 AM	1.51				1.51
10:28:41 AM	2.53				2.53

10:29:41 AM	0.353	0.353
10:30:41 AM	0.208	0.208
10:31:41 AM	0.196	0.196
10:32:41 AM	0.204	0.204
10:33:41 AM	0.231	0.231
10:34:41 AM	0.213	0.213
10:35:41 AM	0.256	0.256
10:36:41 AM	0.195	0.195
10:37:41 AM	0.19	0.19
10:38:41 AM	0.187	0.187
10:39:41 AM	0.231	0.231
10:40:41 AM	0.172	0.172
10:41:41 AM	0.18	0.18
10:42:41 AM	0.194	0.194
10:43:41 AM	0.174	0.174
10:44:41 AM	0.198	0.198
10:45:41 AM	0.189	0.189
10:46:41 AM	0.177	0.177
10:47:41 AM	0.181	0.181
10:48:41 AM	0.186	0.186
10:49:41 AM	0.314	0.314
10:50:41 AM	0.361	0.361
10:51:41 AM	0.607	0.607
10:52:41 AM	0.585	0.585
10:53:41 AM	0.249	0.249
10:54:41 AM	0.549	0.549
10:55:41 AM	0.688	0.688
10:56:41 AM	0.388	0.388
10:57:41 AM	0.268	0.268
10:58:41 AM	0.23	0.23
10:59:41 AM	0.229	0.229
11:00:41 AM	0.204	0.204
11:01:41 AM	0.203	0.203
11:02:41 AM	0.195	0.195
11:03:41 AM	0.183	0.183
11:04:41 AM	0.181	0.181
11:05:41 AM	0.184	0.184
11:06:41 AM	0.193	0.193
11:07:41 AM	0.175	0.175
11:08:41 AM	0.188	0.188
11:09:41 AM	0.202	0.202
11:10:41 AM	0.257	0.257
11:11:41 AM	0.259	0.259
11:12:41 AM	0.317	0.317
11:13:41 AM	0.227	0.227
11:14:41 AM	0.759	0.759
11:15:41 AM	0.353	0.353
11:16:41 AM	0.926	0.926
11:17:41 AM	0.276	0.276
11:18:41 AM	0.308	0.308
11:19:41 AM	0.246	0.246
11:20:41 AM	0.192	0.192
11:21:41 AM	0.188	0.188
11:22:41 AM	0.203	0.203
11:23:41 AM	0.18	0.18

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_019
Test Start Time	6:20:43 AM
Test Start Date	4/6/2013
Test Length [D:H:M]	0:05:04
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.31
Mass Minimum [mg/m3]	0.126
Mass Maximum [mg/m3]	1.93
Mass TWA [mg/m3]	0.196
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	304

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_019
Test Start Time	6:21:08 AM
Test Start Date	4/6/2013
Test Length [D:H:M]	0:13:59
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.659
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	6.39
Mass TWA [mg/m3]	0.362
Photometric User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	260

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:20:43 AM	1.2		
6:21:43 AM	1.93		
6:22:43 AM	0.254		
6:23:43 AM	0.203		
6:24:43 AM	0.333		
6:25:43 AM	0.223		
6:26:43 AM	0.287		
6:27:43 AM	0.32		
6:28:43 AM	0.436		
6:29:43 AM	0.802		
6:30:43 AM	0.284		
6:31:43 AM	0.214		
6:32:43 AM	0.204		
6:33:43 AM	0.158		
6:34:43 AM	0.175		
6:35:43 AM	0.242		
6:36:43 AM	0.404		
6:37:43 AM	0.282		
6:38:43 AM	0.307		
6:39:43 AM	0.594		
6:40:43 AM	0.528		
6:41:43 AM	0.496		
6:42:43 AM	0.329		
6:43:43 AM	0.229		
6:44:43 AM	0.276		
6:45:43 AM	0.25		
6:46:43 AM	0.224		
6:47:43 AM	0.206		
6:48:43 AM	0.377		
6:49:43 AM	0.206		
6:50:43 AM	0.25		
6:51:43 AM	0.864		
6:52:43 AM	0.331		
6:53:43 AM	0.353		
6:54:43 AM	0.281		
6:55:43 AM	0.314		
6:56:43 AM	0.888		
6:57:43 AM	0.633		
6:58:43 AM	0.293		
6:59:43 AM	0.54		
7:00:43 AM	0.367		
7:01:43 AM	0.187		
7:02:43 AM	0.171		
7:03:43 AM	0.206		
7:04:43 AM	0.559		
7:05:43 AM	0.3		
7:06:43 AM	0.572		
7:07:43 AM	0.398		
7:08:43 AM	0.207		
7:09:43 AM	0.214		
7:10:43 AM	0.267		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
				1.2
6:21:08 AM	1.3			0.63
6:22:08 AM	1.36			-1.106
6:23:08 AM	0.298			-0.095
6:24:08 AM	0.223			0.11
6:25:08 AM	0.939			-0.716
6:26:08 AM	0.117			0.17
6:27:08 AM	1			-0.68
6:28:08 AM	0.326			0.11
6:29:08 AM	3.63			-2.828
6:30:08 AM	1.3			-1.016
6:31:08 AM	0.32			-0.106
6:32:08 AM	0.663			-0.459
6:33:08 AM	0.196			-0.038
6:34:08 AM	0.205			-0.03
6:35:08 AM	0.374			-0.132
6:36:08 AM	1.01			-0.606
6:37:08 AM	0.96			-0.678
6:38:08 AM	0.484			-0.177
6:39:08 AM	0.829			-0.235
6:40:08 AM	1.61			-1.082
6:41:08 AM	1.56			-1.064
6:42:08 AM	1.14			-0.811
6:43:08 AM	0.314			-0.085
6:44:08 AM	0.594			-0.318
6:45:08 AM	0.223			0.027
6:46:08 AM	0.445			-0.221
6:47:08 AM	0.318			-0.112
6:48:08 AM	0.577			-0.2
6:49:08 AM	0.344			-0.138
6:50:08 AM	0.312			-0.062
6:51:08 AM	1.97			-1.106
6:52:08 AM	0.699			-0.368
6:53:08 AM	0.953			-0.6
6:54:08 AM	0.57			-0.289
6:55:08 AM	0.636			-0.322
6:56:08 AM	2.2			-1.312
6:57:08 AM	1.77			-1.137
6:58:08 AM	0.856			-0.563
6:59:08 AM	1.4			-0.86
7:00:08 AM	0.825			-0.458
7:01:08 AM	0.159			0.028
7:02:08 AM	0.127			0.044
7:03:08 AM	0.13			0.076
7:04:08 AM	1.48			-0.921
7:05:08 AM	1.15			-0.85
7:06:08 AM	1.76			-1.188
7:07:08 AM	0.668			-0.27
7:08:08 AM	0.377			-0.17
7:09:08 AM	0.223			-0.009
7:10:08 AM	0.891			-0.624

7:11:43 AM	0.557	7:11:08 AM	1.83	-1.273
7:12:43 AM	0.611	7:12:08 AM	1.94	-1.329
7:13:43 AM	0.296	7:13:08 AM	0.568	-0.272
7:14:43 AM	0.173	7:14:08 AM	0.263	-0.09
7:15:43 AM	0.361	7:15:08 AM	0.7	-0.339
7:16:43 AM	0.31	7:16:08 AM	0.448	-0.138
7:17:43 AM	0.218	7:17:08 AM	0.873	-0.655
7:18:43 AM	0.534	7:18:08 AM	0.471	0.063
7:19:43 AM	0.51	7:19:08 AM	1.05	-0.54
7:20:43 AM	0.314	7:20:08 AM	0.425	-0.111
7:21:43 AM	0.218	7:21:08 AM	0.578	-0.36
7:22:43 AM	0.429	7:22:08 AM	0.508	-0.079
7:23:43 AM	0.427	7:23:08 AM	0.895	-0.468
7:24:43 AM	0.197	7:24:08 AM	0.452	-0.255
7:25:43 AM	0.303	7:25:08 AM	0.947	-0.644
7:26:43 AM	0.599	7:26:08 AM	1.84	-1.241
7:27:43 AM	0.568	7:27:08 AM	2.07	-1.502
7:28:43 AM	0.715	7:28:08 AM	0.988	-0.273
7:29:43 AM	0.229	7:29:08 AM	0.717	-0.488
7:30:43 AM	0.217	7:30:08 AM	0.552	-0.335
7:31:43 AM	0.217	7:31:08 AM	0.348	-0.131
7:32:43 AM	0.233	7:32:08 AM	0.362	-0.129
7:33:43 AM	0.254	7:33:08 AM	0.393	-0.139
7:34:43 AM	0.389	7:34:08 AM	0.879	-0.49
7:35:43 AM	0.258	7:35:08 AM	0.131	0.127
7:36:43 AM	0.153	7:36:08 AM	0.081	0.072
7:37:43 AM	0.129	7:37:08 AM	0.034	0.095
7:38:43 AM	0.135	7:38:08 AM	0.049	0.086
7:39:43 AM	0.133	7:39:08 AM	0.051	0.082
7:40:43 AM	0.155	7:40:08 AM	0.102	0.053
7:41:43 AM	0.141	7:41:08 AM	0.055	0.086
7:42:43 AM	0.134	7:42:08 AM	0.042	0.092
7:43:43 AM	0.127	7:43:08 AM	0.053	0.074
7:44:43 AM	0.137	7:44:08 AM	0.126	0.011
7:45:43 AM	0.149	7:45:08 AM	0.09	0.059
7:46:43 AM	0.141	7:46:08 AM	0.066	0.075
7:47:43 AM	0.137	7:47:08 AM	0.077	0.06
7:48:43 AM	0.142	7:48:08 AM	0.123	0.019
7:49:43 AM	0.158	7:49:08 AM	0.059	0.099
7:50:43 AM	0.136	7:50:08 AM	0.031	0.105
7:51:43 AM	0.126	7:51:08 AM	0.037	0.089
7:52:43 AM	0.129	7:52:08 AM	0.105	0.024
7:53:43 AM	0.154	7:53:08 AM	0.527	-0.373
7:54:43 AM	0.229	7:54:08 AM	0.282	-0.053
7:55:43 AM	0.204	7:55:08 AM	0.162	0.042
7:56:43 AM	0.18	7:56:08 AM	0.418	-0.238
7:57:43 AM	0.275	7:57:08 AM	0.757	-0.482
7:58:43 AM	0.42	7:58:08 AM	0.666	-0.246
7:59:43 AM	0.274	7:59:08 AM	0.818	-0.544
8:00:43 AM	0.397	8:00:08 AM	0.34	0.057
8:01:43 AM	0.282	8:01:08 AM	0.269	0.013
8:02:43 AM	0.21	8:02:08 AM	0.182	0.028
8:03:43 AM	0.162	8:03:08 AM	0.259	-0.097
8:04:43 AM	0.208	8:04:08 AM	1.04	-0.832
8:05:43 AM	0.342	8:05:08 AM	2.04	-1.698
8:06:43 AM	0.553	8:06:08 AM	1.81	-1.257
8:07:43 AM	0.677	8:07:08 AM	0.792	-0.115
8:08:43 AM	0.276	8:08:08 AM	0.555	-0.279
8:09:43 AM	0.274	8:09:08 AM	0.465	-0.191
8:10:43 AM	0.222	8:10:08 AM	0.153	0.069
8:11:43 AM	0.206	8:11:08 AM	0.112	0.094
8:12:43 AM	0.159	8:12:08 AM	0.092	0.067
8:13:43 AM	0.161	8:13:08 AM	0.086	0.075
8:14:43 AM	0.144	8:14:08 AM	0.335	-0.191
8:15:43 AM	0.19	8:15:08 AM	0.566	-0.376
8:16:43 AM	0.252	8:16:08 AM	0.404	-0.152
8:17:43 AM	0.221	8:17:08 AM	0.296	-0.075
8:18:43 AM	0.233	8:18:08 AM	0.543	-0.31
8:19:43 AM	0.25	8:19:08 AM	0.227	0.023
8:20:43 AM	0.183	8:20:08 AM	0.832	-0.649
8:21:43 AM	0.225	8:21:08 AM	1.54	-1.315
8:22:43 AM	0.393	8:22:08 AM	1.45	-1.057

8:23:43 AM	0.462		8:23:08 AM	0.845	-0.383
8:24:43 AM	0.489		8:24:08 AM	0.473	0.016
8:25:43 AM	0.195		8:25:08 AM	0.576	-0.381
8:26:43 AM	0.198		8:26:08 AM	0.21	-0.012
8:27:43 AM	0.177		8:27:08 AM	0.269	-0.092
8:28:43 AM	0.222		8:28:08 AM	0.395	-0.173
8:29:43 AM	0.193		8:29:08 AM	0.428	-0.235
8:30:43 AM	0.267		8:30:08 AM	0.126	0.141
8:31:43 AM	0.236		8:31:08 AM	0.58	-0.344
8:32:43 AM	0.221		8:32:08 AM	0.951	-0.73
8:33:43 AM	0.249		8:33:08 AM	1.18	-0.931
8:34:43 AM	0.646		8:34:08 AM	3.38	-2.734
8:35:43 AM	0.696		8:35:08 AM	1.35	-0.654
8:36:43 AM	1.36		8:36:08 AM	1.28	0.08
8:37:43 AM	0.433		8:37:08 AM	2.81	-2.377
8:38:43 AM	0.762		8:38:08 AM	3.15	-2.388
8:39:43 AM	0.961		8:39:08 AM	1.39	-0.429
8:40:43 AM	0.66		8:40:08 AM	1.02	-0.36
8:41:43 AM	0.402		8:41:08 AM	1.08	-0.678
8:42:43 AM	0.335		8:42:08 AM	0.425	-0.09
8:43:43 AM	0.36		8:43:08 AM	0.835	-0.475
8:44:43 AM	0.319		8:44:08 AM	0.259	0.06
8:45:43 AM	0.378		8:45:08 AM	0.307	0.071
8:46:43 AM	0.209		8:46:08 AM	0.513	-0.304
8:47:43 AM	0.308		8:47:08 AM	0.307	0.001
8:48:43 AM	0.279		8:48:08 AM	0.392	-0.113
8:49:43 AM	0.203		8:49:08 AM	0.203	0
8:50:43 AM	0.195		8:50:08 AM	0.173	0.022
8:51:43 AM	0.194		8:51:08 AM	0.188	0.006
8:52:43 AM	0.152		8:52:08 AM	0.309	-0.157
8:53:43 AM	0.165		8:53:08 AM	0.433	-0.268
8:54:43 AM	0.196		8:54:08 AM	2.36	-2.164
8:55:43 AM	0.231		8:55:08 AM	0.165	0.066
8:56:43 AM	0.174		8:56:08 AM	0.239	-0.065
8:57:43 AM	0.158		8:57:08 AM	1.56	-1.402
8:58:43 AM	0.182		8:58:08 AM	0.863	-0.681
8:59:43 AM	0.642		8:59:08 AM	0.334	0.308
9:00:43 AM	0.494		9:00:08 AM	0.198	0.296
9:01:43 AM	0.231		9:01:08 AM	0.376	-0.145
9:02:43 AM	0.186		9:02:08 AM	0.297	-0.111
9:03:43 AM	0.238		9:03:08 AM	0.182	0.056
9:04:43 AM	0.227		9:04:08 AM	0.222	0.005
9:05:43 AM	0.176		9:05:08 AM	1.02	-0.844
9:06:43 AM	0.224		9:06:08 AM	0.713	-0.489
9:07:43 AM	0.221		9:07:08 AM	0.478	-0.257
9:08:43 AM	0.329		9:08:08 AM	1.4	-1.071
9:09:43 AM	0.328		9:09:08 AM	0.706	-0.378
9:10:43 AM	0.439		9:10:08 AM	1.71	-1.271
9:11:43 AM	0.366		9:11:08 AM	0.397	-0.031
9:12:43 AM	0.916		9:12:08 AM	0.396	0.52
9:13:43 AM	0.29		9:13:08 AM	0.342	-0.052
9:14:43 AM	0.268		9:14:08 AM	0.313	-0.045
9:15:43 AM	0.254		9:15:08 AM	0.297	-0.043
9:16:43 AM	0.308		9:16:08 AM	0.201	0.107
9:17:43 AM	0.214		9:17:08 AM	0.675	-0.461
9:18:43 AM	0.193		9:18:08 AM	0.515	-0.322
9:19:43 AM	0.26		9:19:08 AM	0.386	-0.126
9:20:43 AM	0.266		9:20:08 AM	0.247	0.019
9:21:43 AM	0.24		9:21:08 AM	0.451	-0.211
9:22:43 AM	0.243		9:22:08 AM	0.909	-0.666
9:23:43 AM	0.219		9:23:08 AM	0.592	-0.373
9:24:43 AM	0.3		9:24:08 AM	0.294	0.006
9:25:43 AM	0.447		9:25:08 AM	0.274	0.173
9:26:43 AM	0.242		9:26:08 AM	0.267	-0.025
9:27:43 AM	0.206		9:27:08 AM	0.172	0.034
9:28:43 AM	0.202		9:28:08 AM	1.3	-1.098
9:29:43 AM	0.169		9:29:08 AM	1.97	-1.801
9:30:43 AM	0.763		9:30:08 AM	1.1	-0.337
9:31:43 AM	0.813		9:31:08 AM	0.799	0.014
9:32:43 AM	0.605		9:32:08 AM	0.519	0.086
9:33:43 AM	0.537		9:33:08 AM	0.735	-0.198
9:34:43 AM	0.344		9:34:08 AM	0.861	-0.517

9:35:43 AM	0.356		9:35:08 AM	0.266	0.09
9:36:43 AM	0.3		9:36:08 AM	0.438	-0.138
9:37:43 AM	0.284		9:37:08 AM	0.407	-0.123
9:38:43 AM	0.201		9:38:08 AM	0.273	-0.072
9:39:43 AM	0.256		9:39:08 AM	0.165	0.091
9:40:43 AM	0.23		9:40:08 AM	0.147	0.083
9:41:43 AM	0.249		9:41:08 AM	0.183	0.066
9:42:43 AM	0.16		9:42:08 AM	0.14	0.02
9:43:43 AM	0.207		9:43:08 AM	0.176	0.031
9:44:43 AM	0.194		9:44:08 AM	0.162	0.032
9:45:43 AM	0.224		9:45:08 AM	0.302	-0.078
9:46:43 AM	0.198		9:46:08 AM	0.605	-0.407
9:47:43 AM	0.179		9:47:08 AM	1.08	-0.901
9:48:43 AM	0.247		9:48:08 AM	0.54	-0.293
9:49:43 AM	0.231		9:49:08 AM	0.702	-0.471
9:50:43 AM	0.365		9:50:08 AM	0.585	-0.22
9:51:43 AM	0.236		9:51:08 AM	0.781	-0.545
9:52:43 AM	0.338		9:52:08 AM	0.584	-0.246
9:53:43 AM	0.298		9:53:08 AM	0.572	-0.274
9:54:43 AM	0.33		9:54:08 AM	0.349	-0.019
9:55:43 AM	0.27		9:55:08 AM	0.231	0.039
9:56:43 AM	0.312		9:56:08 AM	0.179	0.133
9:57:43 AM	0.219		9:57:08 AM	0.236	-0.017
9:58:43 AM	0.204		9:58:08 AM	0.179	0.025
9:59:43 AM	0.155		9:59:08 AM	0.254	-0.099
10:00:43 AM	0.196		10:00:08 AM	0.123	0.073
10:01:43 AM	0.202		10:01:08 AM	0.231	-0.029
10:02:43 AM	0.193		10:02:08 AM	0.368	-0.175
10:03:43 AM	0.158		10:03:08 AM	0.158	0
10:04:43 AM	0.241		10:04:08 AM	0.087	0.154
10:05:43 AM	0.224		10:05:08 AM	0.213	0.011
10:06:43 AM	0.171		10:06:08 AM	0.462	-0.291
10:07:43 AM	0.148		10:07:08 AM	0.376	-0.228
10:08:43 AM	0.181		10:08:08 AM	0.175	0.006
10:09:43 AM	0.268		10:09:08 AM	0.47	-0.202
10:10:43 AM	0.402		10:10:08 AM	0.37	0.032
10:11:43 AM	0.2		10:11:08 AM	0.24	-0.04
10:12:43 AM	0.282		10:12:08 AM	0.213	0.069
10:13:43 AM	0.297		10:13:08 AM	0.23	0.067
10:14:43 AM	0.225		10:14:08 AM	0.326	-0.101
10:15:43 AM	0.19		10:15:08 AM	0.268	-0.078
10:16:43 AM	0.216		10:16:08 AM	0.143	0.073
10:17:43 AM	0.185		10:17:08 AM	0.572	-0.387
10:18:43 AM	0.235		10:18:08 AM	0.423	-0.188
10:19:43 AM	0.204		10:19:08 AM	2	-1.796
10:20:43 AM	0.177		10:20:08 AM	6.39	-6.213
10:21:43 AM	0.221		10:21:08 AM	2.71	-2.489
10:22:43 AM	0.351		10:22:08 AM	2	-1.649
10:23:43 AM	0.856		10:23:08 AM	1.06	-0.204
10:24:43 AM	0.863		10:24:08 AM	2.02	-1.157
10:25:43 AM	0.783		10:25:08 AM	2.62	-1.837
10:26:43 AM	0.686		10:26:08 AM	1.11	-0.424
10:27:43 AM	0.449		10:27:08 AM	0.849	-0.4
10:28:43 AM	1.14		10:28:08 AM	0.385	0.755
10:29:43 AM	0.388		10:29:08 AM	0.216	0.172
10:30:43 AM	0.49		10:30:08 AM	0.7	-0.21
10:31:43 AM	0.339		10:31:08 AM	0.292	0.047
10:32:43 AM	0.178		10:32:08 AM	0.045	Flow Error 0.133
10:33:43 AM	0.271		10:33:08 AM	0.015	Flow Error 0.256
10:34:43 AM	0.224		10:34:08 AM	0.018	Flow Error 0.206
10:35:43 AM	0.167		10:35:08 AM	0.016	Flow Error 0.151
10:36:43 AM	0.209		10:36:08 AM	0.024	Flow Error 0.185
10:37:43 AM	0.302		10:37:08 AM	0	0.302
10:38:43 AM	0.365		10:38:08 AM	0.013	0.352
10:39:43 AM	0.355		10:39:08 AM	0.013	Flow Error 0.342
10:40:43 AM	0.462		10:40:08 AM	0.013	Flow Error 0.449
10:41:43 AM	0.426				0.426
10:42:43 AM	0.307				0.307
10:43:43 AM	0.29				0.29
10:44:43 AM	0.352				0.352
10:45:43 AM	0.206				0.206
10:46:43 AM	0.335				0.335

10:47:43 AM	0.241	0.241
10:48:43 AM	0.207	0.207
10:49:43 AM	0.194	0.194
10:50:43 AM	0.279	0.279
10:51:43 AM	0.223	0.223
10:52:43 AM	0.205	0.205
10:53:43 AM	0.19	0.19
10:54:43 AM	0.262	0.262
10:55:43 AM	0.211	0.211
10:56:43 AM	0.249	0.249
10:57:43 AM	0.202	0.202
10:58:43 AM	0.148	0.148
10:59:43 AM	0.133	0.133
11:00:43 AM	0.15	0.15
11:01:43 AM	0.152	0.152
11:02:43 AM	0.151	0.151
11:03:43 AM	0.135	0.135
11:04:43 AM	0.145	0.145
11:05:43 AM	0.129	0.129
11:06:43 AM	0.536	0.536
11:07:43 AM	0.319	0.319
11:08:43 AM	0.23	0.23
11:09:43 AM	0.189	0.189
11:10:43 AM	0.173	0.173
11:11:43 AM	0.179	0.179
11:12:43 AM	0.211	0.211
11:13:43 AM	0.25	0.25
11:14:43 AM	0.152	0.152
11:15:43 AM	0.146	0.146
11:16:43 AM	0.215	0.215
11:17:43 AM	0.164	0.164
11:18:43 AM	0.244	0.244
11:19:43 AM	0.194	0.194
11:20:43 AM	0.218	0.218
11:21:43 AM	0.203	0.203
11:22:43 AM	0.133	0.133
11:23:43 AM	0.17	0.17

Downwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_020
Test Start Time	6:41:16 AM
Test Start Date	4/7/2013
Test Length [D:H:M]	0:04:37
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.19
Mass Minimum [mg/m3]	0.042
Mass Maximum [mg/m3]	5.41
Mass TWA [mg/m3]	0.11
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	277

Upwind	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_020
Test Start Time	6:41:01 AM
Test Start Date	4/7/2013
Test Length [D:H:M]	0:04:36
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.074
Mass Minimum [mg/m3]	-0.029
Mass Maximum [mg/m3]	4.93
Mass TWA [mg/m3]	0.042
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	272

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:41:16 AM	0.182		
6:42:16 AM	0.443		
6:43:16 AM	0.054		
6:44:16 AM	0.05		
6:45:16 AM	0.055		
6:46:16 AM	0.094		
6:47:16 AM	0.051		
6:48:16 AM	0.043		
6:49:16 AM	0.049		
6:50:16 AM	0.049		
6:51:16 AM	0.047		
6:52:16 AM	0.044		
6:53:16 AM	0.052		
6:54:16 AM	0.056		
6:55:16 AM	0.045		
6:56:16 AM	0.043		
6:57:16 AM	0.046		
6:58:16 AM	0.046		
6:59:16 AM	0.045		
7:00:16 AM	0.074		
7:01:16 AM	0.058		
7:02:16 AM	0.058		
7:03:16 AM	0.048		
7:04:16 AM	0.052		
7:05:16 AM	0.042		
7:06:16 AM	0.046		
7:07:16 AM	0.045		
7:08:16 AM	0.062		
7:09:16 AM	0.052		
7:10:16 AM	0.055		
7:11:16 AM	0.046		
7:12:16 AM	0.043		
7:13:16 AM	0.043		
7:14:16 AM	0.049		
7:15:16 AM	0.044		
7:16:16 AM	0.047		
7:17:16 AM	0.052		
7:18:16 AM	0.045		
7:19:16 AM	0.043		
7:20:16 AM	0.052		
7:21:16 AM	1.3		
7:22:16 AM	0.27		
7:23:16 AM	0.21		
7:24:16 AM	0.071		
7:25:16 AM	0.063		
7:26:16 AM	0.204		
7:27:16 AM	0.173		
7:28:16 AM	0.162		

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:41:01 AM	1.77			-1.588
6:42:01 AM	0			0.443
6:43:01 AM	-0.019			0.073
6:44:01 AM	-0.018			0.068
6:45:01 AM	-0.019			0.074
6:46:01 AM	-0.005			0.099
6:47:01 AM	-0.021			0.072
6:48:01 AM	-0.026			0.069
6:49:01 AM	-0.024			0.073
6:50:01 AM	-0.022			0.071
6:51:01 AM	-0.023			0.07
6:52:01 AM	-0.027			0.071
6:53:01 AM	-0.022			0.074
6:54:01 AM	-0.02			0.076
6:55:01 AM	-0.026			0.071
6:56:01 AM	-0.02			0.063
6:57:01 AM	-0.024			0.07
6:58:01 AM	-0.025			0.071
6:59:01 AM	-0.026			0.071
7:00:01 AM	-0.009			0.083
7:01:01 AM	-0.02			0.078
7:02:01 AM	-0.024			0.082
7:03:01 AM	-0.024			0.072
7:04:01 AM	-0.028			0.08
7:05:01 AM	-0.029			0.071
7:06:01 AM	-0.024			0.07
7:07:01 AM	-0.024			0.069
7:08:01 AM	-0.017			0.079
7:09:01 AM	-0.021			0.073
7:10:01 AM	-0.018			0.073
7:11:01 AM	-0.024			0.07
7:12:01 AM	-0.026			0.069
7:13:01 AM	-0.025			0.068
7:14:01 AM	-0.023			0.072
7:15:01 AM	-0.025			0.069
7:16:01 AM	-0.029			0.076
7:17:01 AM	-0.025			0.077
7:18:01 AM	-0.028			0.073
7:19:01 AM	-0.027			0.07
7:20:01 AM	0.786			-0.734
7:21:01 AM	0.262			1.038
7:22:01 AM	0.084			0.186
7:23:01 AM	0.035			0.175
7:24:01 AM	-0.014			0.085
7:25:01 AM	0.005			0.058
7:26:01 AM	0.026			0.178
7:27:01 AM	0.046			0.127
7:28:01 AM	0.012			0.15

7:29:16 AM	0.088	7:29:01 AM	-0.003	0.091
7:30:16 AM	0.086	7:30:01 AM	-0.002	0.088
7:31:16 AM	0.119	7:31:01 AM	0.058	0.061
7:32:16 AM	0.229	7:32:01 AM	0.041	0.188
7:33:16 AM	0.078	7:33:01 AM	-0.001	0.079
7:34:16 AM	0.094	7:34:01 AM	-0.003	0.097
7:35:16 AM	0.074	7:35:01 AM	-0.018	0.092
7:36:16 AM	0.056	7:36:01 AM	-0.019	0.075
7:37:16 AM	0.055	7:37:01 AM	-0.012	0.067
7:38:16 AM	0.086	7:38:01 AM	0.001	0.085
7:39:16 AM	0.239	7:39:01 AM	0.061	0.178
7:40:16 AM	0.129	7:40:01 AM	0.046	0.083
7:41:16 AM	0.137	7:41:01 AM	0.026	0.111
7:42:16 AM	0.253	7:42:01 AM	0.009	0.244
7:43:16 AM	0.09	7:43:01 AM	1.62	-1.53
7:44:16 AM	2.25	7:44:01 AM	0.084	2.166
7:45:16 AM	0.178	7:45:01 AM	0.008	0.17
7:46:16 AM	0.093	7:46:01 AM	0.07	0.023
7:47:16 AM	0.484	7:47:01 AM	0.161	0.323
7:48:16 AM	0.252	7:48:01 AM	0.019	0.233
7:49:16 AM	0.093	7:49:01 AM	0.007	0.086
7:50:16 AM	0.086	7:50:01 AM	-0.018	0.104
7:51:16 AM	0.058	7:51:01 AM	0.198	-0.14
7:52:16 AM	0.426	7:52:01 AM	0.022	0.404
7:53:16 AM	0.095	7:53:01 AM	0.021	0.074
7:54:16 AM	0.117	7:54:01 AM	0.01	0.107
7:55:16 AM	0.099	7:55:01 AM	-0.006	0.105
7:56:16 AM	0.071	7:56:01 AM	-0.021	0.092
7:57:16 AM	0.056	7:57:01 AM	-0.026	0.082
7:58:16 AM	0.048	7:58:01 AM	-0.025	0.073
7:59:16 AM	0.047	7:59:01 AM	-0.023	0.07
8:00:16 AM	0.05	8:00:01 AM	-0.016	0.066
8:01:16 AM	0.058	8:01:01 AM	0.028	0.03
8:02:16 AM	0.129	8:02:01 AM	0.01	0.119
8:03:16 AM	0.105	8:03:01 AM	-0.015	0.12
8:04:16 AM	0.073	8:04:01 AM	-0.02	0.093
8:05:16 AM	0.06	8:05:01 AM	-0.024	0.084
8:06:16 AM	0.053	8:06:01 AM	-0.015	0.068
8:07:16 AM	0.063	8:07:01 AM	0.137	-0.074
8:08:16 AM	0.159	8:08:01 AM	1.39	-1.231
8:09:16 AM	1.51	8:09:01 AM	4.93	-3.42
8:10:16 AM	5.41	8:10:01 AM	1.17	4.24
8:11:16 AM	3.63	8:11:01 AM	0.332	3.298
8:12:16 AM	0.613	8:12:01 AM	0.172	0.441
8:13:16 AM	0.353	8:13:01 AM	0.007	0.346
8:14:16 AM	0.132	8:14:01 AM	-0.023	0.155
8:15:16 AM	0.059	8:15:01 AM	-0.028	0.087
8:16:16 AM	0.044	8:16:01 AM	0.02	0.024
8:17:16 AM	0.118	8:17:01 AM	0.1	0.018
8:18:16 AM	0.197	8:18:01 AM	0.064	0.133
8:19:16 AM	0.2	8:19:01 AM	0.028	0.172
8:20:16 AM	0.134	8:20:01 AM	0.016	0.118
8:21:16 AM	0.104	8:21:01 AM	0.039	0.065
8:22:16 AM	0.171	8:22:01 AM	0.449	-0.278
8:23:16 AM	0.508	8:23:01 AM	0.123	0.385
8:24:16 AM	0.46	8:24:01 AM	0.001	0.459
8:25:16 AM	0.131	8:25:01 AM	-0.001	0.132
8:26:16 AM	0.102	8:26:01 AM	0.066	0.036
8:27:16 AM	0.334	8:27:01 AM	0.03	0.304
8:28:16 AM	0.171	8:28:01 AM	0.007	0.164
8:29:16 AM	0.111	8:29:01 AM	0.007	0.104
8:30:16 AM	0.091	8:30:01 AM	0.038	0.053
8:31:16 AM	0.106	8:31:01 AM	0.152	-0.046
8:32:16 AM	0.247	8:32:01 AM	0.183	0.064
8:33:16 AM	0.412	8:33:01 AM	0.069	0.343
8:34:16 AM	0.195	8:34:01 AM	0.048	0.147
8:35:16 AM	0.298	8:35:01 AM	0.026	0.272
8:36:16 AM	0.11	8:36:01 AM	0.015	0.095
8:37:16 AM	0.12	8:37:01 AM	-0.01	0.13

8:38:16 AM	0.102		8:38:01 AM	-0.009	0.111
8:39:16 AM	0.074		8:39:01 AM	-0.012	0.086
8:40:16 AM	0.057		8:40:01 AM	-0.018	0.075
8:41:16 AM	0.06		8:41:01 AM	-0.023	0.083
8:42:16 AM	0.053		8:42:01 AM	-0.007	0.06
8:43:16 AM	0.051		8:43:01 AM	-0.009	0.06
8:44:16 AM	0.1		8:44:01 AM	0.007	0.093
8:45:16 AM	0.068		8:45:01 AM	0.026	0.042
8:46:16 AM	0.162		8:46:01 AM	0.019	0.143
8:47:16 AM	0.138		8:47:01 AM	0.051	0.087
8:48:16 AM	0.19		8:48:01 AM	-0.007	0.197
8:49:16 AM	0.152		8:49:01 AM	0.029	0.123
8:50:16 AM	0.069		8:50:01 AM	0.062	0.007
8:51:16 AM	0.086		8:51:01 AM	0.095	-0.009
8:52:16 AM	0.223		8:52:01 AM	0.124	0.099
8:53:16 AM	0.233		8:53:01 AM	0.047	0.186
8:54:16 AM	0.228		8:54:01 AM	0.036	0.192
8:55:16 AM	0.155		8:55:01 AM	0.029	0.126
8:56:16 AM	0.156		8:56:01 AM	0.001	0.155
8:57:16 AM	0.113		8:57:01 AM	0.009	0.104
8:58:16 AM	0.078		8:58:01 AM	0.063	0.015
8:59:16 AM	0.091		8:59:01 AM	0.017	0.074
9:00:16 AM	0.127		9:00:01 AM	0.004	0.123
9:01:16 AM	0.11		9:01:01 AM	0.013	0.097
9:02:16 AM	0.124		9:02:01 AM	0.061	0.063
9:03:16 AM	0.107		9:03:01 AM	0.042	0.065
9:04:16 AM	0.17		9:04:01 AM	0.022	0.148
9:05:16 AM	0.141		9:05:01 AM	0.019	0.122
9:06:16 AM	0.14		9:06:01 AM	0.034	0.106
9:07:16 AM	0.128		9:07:01 AM	0.004	0.124
9:08:16 AM	0.153		9:08:01 AM	0.031	0.122
9:09:16 AM	0.092		9:09:01 AM	-0.009	0.101
9:10:16 AM	0.18		9:10:01 AM	0.018	0.162
9:11:16 AM	0.071		9:11:01 AM	0.016	0.055
9:12:16 AM	0.13		9:12:01 AM	0.012	0.118
9:13:16 AM	0.111		9:13:01 AM	0.009	0.102
9:14:16 AM	0.105		9:14:01 AM	-0.011	0.116
9:15:16 AM	0.094		9:15:01 AM	-0.008	0.102
9:16:16 AM	0.066		9:16:01 AM	-0.01	0.076
9:17:16 AM	0.074		9:17:01 AM	0.01	0.064
9:18:16 AM	0.072		9:18:01 AM	0.006	0.066
9:19:16 AM	0.095		9:19:01 AM	0.009	0.086
9:20:16 AM	0.086		9:20:01 AM	0.011	0.075
9:21:16 AM	0.09		9:21:01 AM	-0.011	0.101
9:22:16 AM	0.105		9:22:01 AM	-0.003	0.108
9:23:16 AM	0.083		9:23:01 AM	0.064	0.019
9:24:16 AM	0.078		9:24:01 AM	-0.002	0.08
9:25:16 AM	0.257		9:25:01 AM	-0.006	0.263
9:26:16 AM	0.09		9:26:01 AM	-0.003	0.093
9:27:16 AM	0.088		9:27:01 AM	0.027	0.061
9:28:16 AM	0.069		9:28:01 AM	0.038	0.031
9:29:16 AM	0.126		9:29:01 AM	0.107	0.019
9:30:16 AM	0.105		9:30:01 AM	0.11	-0.005
9:31:16 AM	0.278		9:31:01 AM	0.044	0.234
9:32:16 AM	0.19		9:32:01 AM	0.009	0.181
9:33:16 AM	0.284		9:33:01 AM	0.156	0.128
9:34:16 AM	0.119		9:34:01 AM	0.105	0.014
9:35:16 AM	0.247		9:35:01 AM	0.041	0.206
9:36:16 AM	0.369		9:36:01 AM	0.047	0.322
9:37:16 AM	0.186		9:37:01 AM	0.036	0.15
9:38:16 AM	0.153		9:38:01 AM	-0.009	0.162
9:39:16 AM	0.214		9:39:01 AM	-0.002	0.216
9:40:16 AM	0.101		9:40:01 AM	0.006	0.095
9:41:16 AM	0.079		9:41:01 AM	0.035	0.044
9:42:16 AM	0.089		9:42:01 AM	0.008	0.081
9:43:16 AM	0.114		9:43:01 AM	0.002	0.112
9:44:16 AM	0.091		9:44:01 AM	-0.008	0.099
9:45:16 AM	0.119		9:45:01 AM	-0.002	0.121
9:46:16 AM	0.106		9:46:01 AM	-0.005	0.111

9:47:16 AM	0.068	9:47:01 AM	0.007	0.061
9:48:16 AM	0.1	9:48:01 AM	0.017	0.083
9:49:16 AM	0.083	9:49:01 AM	0.011	0.072
9:50:16 AM	0.12	9:50:01 AM	-0.021	0.141
9:51:16 AM	0.134	9:51:01 AM	-0.022	0.156
9:52:16 AM	0.131	9:52:01 AM	0.035	0.096
9:53:16 AM	0.055	9:53:01 AM	0.034	0.021
9:54:16 AM	0.055	9:54:01 AM	-0.004	0.059
9:55:16 AM	0.212	9:55:01 AM	-0.012	0.224
9:56:16 AM	0.15	9:56:01 AM	-0.022	0.172
9:57:16 AM	0.074	9:57:01 AM	-0.018	0.092
9:58:16 AM	0.069	9:58:01 AM	-0.012	0.081
9:59:16 AM	0.055	9:59:01 AM	-0.016	0.071
10:00:16 AM	0.076	10:00:01 AM	-0.01	0.086
10:01:16 AM	0.082	10:01:01 AM	-0.005	0.087
10:02:16 AM	0.066	10:02:01 AM	-0.001	0.067
10:03:16 AM	0.075	10:03:01 AM	-0.006	0.081
10:04:16 AM	0.12	10:04:01 AM	0.034	0.086
10:05:16 AM	0.087	10:05:01 AM	-0.008	0.095
10:06:16 AM	0.121	10:06:01 AM	-0.004	0.125
10:07:16 AM	0.185	10:07:01 AM	-0.014	0.199
10:08:16 AM	0.07	10:08:01 AM	-0.015	0.085
10:09:16 AM	0.073	10:09:01 AM	-0.014	0.087
10:10:16 AM	0.065	10:10:01 AM	0.395	-0.33
10:11:16 AM	0.062	10:11:01 AM	0.184	-0.122
10:12:16 AM	0.067	10:12:01 AM	0.023	0.044
10:13:16 AM	0.081	10:13:01 AM	0.009	0.072
10:14:16 AM	0.475	10:14:01 AM	0.011	0.464
10:15:16 AM	0.197	10:15:01 AM	0.005	0.192
10:16:16 AM	0.125	10:16:01 AM	0.05	0.075
10:17:16 AM	0.118	10:17:01 AM	0.043	0.075
10:18:16 AM	0.093	10:18:01 AM	0.013	0.08
10:19:16 AM	0.144	10:19:01 AM	0.001	0.143
10:20:16 AM	0.168	10:20:01 AM	0.124	0.044
10:21:16 AM	0.115	10:21:01 AM	-0.007	0.122
10:22:16 AM	0.123	10:22:01 AM	0.018	0.105
10:23:16 AM	0.679	10:23:01 AM	0.003	0.676
10:24:16 AM	0.089	10:24:01 AM	-0.006	0.095
10:25:16 AM	0.092	10:25:01 AM	-0.002	0.094
10:26:16 AM	0.113	10:26:01 AM	-0.009	0.122
10:27:16 AM	0.077	10:27:01 AM	0.063	0.014
10:28:16 AM	0.113	10:28:01 AM	0.004	0.109
10:29:16 AM	0.101	10:29:01 AM	0.001	0.1
10:30:16 AM	0.074	10:30:01 AM	-0.001	0.075
10:31:16 AM	0.102	10:31:01 AM	0.742	-0.64
10:32:16 AM	0.088	10:32:01 AM	0.034	0.054
10:33:16 AM	0.1	10:33:01 AM	0.016	0.084
10:34:16 AM	0.755	10:34:01 AM	0.021	0.734
10:35:16 AM	0.148	10:35:01 AM	-0.002	0.15
10:36:16 AM	0.113	10:36:01 AM	-0.002	0.115
10:37:16 AM	0.113	10:37:01 AM	-0.008	0.121
10:38:16 AM	0.125	10:38:01 AM	-0.001	0.126
10:39:16 AM	0.084	10:39:01 AM	0.004	0.08
10:40:16 AM	0.072	10:40:01 AM	0.04	0.032
10:41:16 AM	0.078	10:41:01 AM	0.034	0.044
10:42:16 AM	0.14	10:42:01 AM	0.027	0.113
10:43:16 AM	0.073	10:43:01 AM	0.016	0.057
10:44:16 AM	0.142	10:44:01 AM	0	0.142
10:45:16 AM	0.135	10:45:01 AM	-0.001	0.136
10:46:16 AM	0.111	10:46:01 AM	0.066	0.045
10:47:16 AM	0.101	10:47:01 AM	0.177	-0.076
10:48:16 AM	0.067	10:48:01 AM	0.056	0.011
10:49:16 AM	0.113	10:49:01 AM	0.002	0.111
10:50:16 AM	0.635	10:50:01 AM	0.011	0.624
10:51:16 AM	0.285	10:51:01 AM	0.066	0.219
10:52:16 AM	0.212	10:52:01 AM	0.18	0.032
10:53:16 AM	0.091	10:53:01 AM	0.12	-0.029
10:54:16 AM	0.235	10:54:01 AM	0.155	0.08
10:55:16 AM	0.137	10:55:01 AM	0.115	0.022

10:56:16 AM	0.594	10:56:01 AM	0.108	0.486
10:57:16 AM	0.299	10:57:01 AM	0.034	0.265
10:58:16 AM	0.347	10:58:01 AM	0.302	0.045
10:59:16 AM	0.553	10:59:01 AM	0.11	0.443
11:00:16 AM	0.224	11:00:01 AM	0.101	0.123
11:01:16 AM	0.124	11:01:01 AM	0.111	0.013
11:02:16 AM	0.449	11:02:01 AM	0.128	0.321
11:03:16 AM	0.228	11:03:01 AM	0.136	0.092
11:04:16 AM	0.183	11:04:01 AM	0.172	0.011
11:05:16 AM	0.237	11:05:01 AM	0.122	0.115
11:06:16 AM	0.284	11:06:01 AM	0.062	0.222
11:07:16 AM	0.269	11:07:01 AM	0.085	0.184
11:08:16 AM	0.358	11:08:01 AM	0.075	0.283
11:09:16 AM	0.329	11:09:01 AM	0.056	0.273
11:10:16 AM	0.177	11:10:01 AM	0.047	0.13
11:11:16 AM	0.256	11:11:01 AM	0.029	0.227
11:12:16 AM	0.191	11:12:01 AM	0.045	0.146
11:13:16 AM	0.143			0.143
11:14:16 AM	0.172			0.172
11:15:16 AM	0.125			0.125
11:16:16 AM	0.16			0.16
11:17:16 AM	0.417			0.417
11:18:16 AM	0.182			0.182
11:19:16 AM	0.443			0.443
11:20:16 AM	0.054			0.054
11:21:16 AM	0.05			0.05
11:22:16 AM	0.055			0.055
11:23:16 AM	0.094			0.094
11:24:16 AM	0.051			0.051
11:25:16 AM	0.043			0.043
11:26:16 AM	0.049			0.049
11:27:16 AM	0.049			0.049
11:28:16 AM	0.047			0.047
11:29:16 AM	0.044			0.044
11:30:16 AM	0.052			0.052
11:31:16 AM	0.056			0.056
11:32:16 AM	0.045			0.045
11:33:16 AM	0.043			0.043
11:34:16 AM	0.046			0.046
11:35:16 AM	0.046			0.046
11:36:16 AM	0.045			0.045
11:37:16 AM	0.074			0.074
11:38:16 AM	0.058			0.058
11:39:16 AM	0.058			0.058
11:40:16 AM	0.048			0.048
11:41:16 AM	0.052			0.052
11:42:16 AM	0.042			0.042
11:43:16 AM	0.046			0.046
11:44:16 AM	0.045			0.045
11:45:16 AM	0.062			0.062
11:46:16 AM	0.052			0.052
11:47:16 AM	0.055			0.055
11:48:16 AM	0.046			0.046
11:49:16 AM	0.043			0.043
11:50:16 AM	0.043			0.043
11:51:16 AM	0.049			0.049
11:52:16 AM	0.044			0.044
11:53:16 AM	0.047			0.047
11:54:16 AM	0.052			0.052
11:55:16 AM	0.045			0.045
11:56:16 AM	0.043			0.043
11:57:16 AM	0.052			0.052
11:58:16 AM	1.3			1.3
11:59:16 AM	0.27			0.27
12:00:16 PM	0.21			0.21
12:01:16 PM	0.071			0.071
12:02:16 PM	0.063			0.063
12:03:16 PM	0.204			0.204
12:04:16 PM	0.173			0.173

12:05:16 PM	0.162	0.162
12:06:16 PM	0.088	0.088
12:07:16 PM	0.086	0.086
12:08:16 PM	0.119	0.119
12:09:16 PM	0.229	0.229
12:10:16 PM	0.078	0.078
12:11:16 PM	0.094	0.094
12:12:16 PM	0.074	0.074
12:13:16 PM	0.056	0.056
12:14:16 PM	0.055	0.055
12:15:16 PM	0.086	0.086
12:16:16 PM	0.239	0.239
12:17:16 PM	0.129	0.129
12:18:16 PM	0.137	0.137
12:19:16 PM	0.253	0.253
12:20:16 PM	0.09	0.09
12:21:16 PM	2.25	2.25
12:22:16 PM	0.178	0.178
12:23:16 PM	0.093	0.093
12:24:16 PM	0.484	0.484
12:25:16 PM	0.252	0.252
12:26:16 PM	0.093	0.093
12:27:16 PM	0.086	0.086
12:28:16 PM	0.058	0.058
12:29:16 PM	0.426	0.426
12:30:16 PM	0.095	0.095
12:31:16 PM	0.117	0.117
12:32:16 PM	0.099	0.099
12:33:16 PM	0.071	0.071
12:34:16 PM	0.056	0.056
12:35:16 PM	0.048	0.048
12:36:16 PM	0.047	0.047
12:37:16 PM	0.05	0.05
12:38:16 PM	0.058	0.058
12:39:16 PM	0.129	0.129
12:40:16 PM	0.105	0.105
12:41:16 PM	0.073	0.073
12:42:16 PM	0.06	0.06
12:43:16 PM	0.053	0.053
12:44:16 PM	0.063	0.063
12:45:16 PM	0.159	0.159
12:46:16 PM	1.51	1.51
12:47:16 PM	5.41	5.41
12:48:16 PM	3.63	3.63
12:49:16 PM	0.613	0.613
12:50:16 PM	0.353	0.353
12:51:16 PM	0.132	0.132
12:52:16 PM	0.059	0.059
12:53:16 PM	0.044	0.044
12:54:16 PM	0.118	0.118
12:55:16 PM	0.197	0.197
12:56:16 PM	0.2	0.2
12:57:16 PM	0.134	0.134
12:58:16 PM	0.104	0.104
12:59:16 PM	0.171	0.171
1:00:16 PM	0.508	0.508
1:01:16 PM	0.46	0.46
1:02:16 PM	0.131	0.131
1:03:16 PM	0.102	0.102
1:04:16 PM	0.334	0.334
1:05:16 PM	0.171	0.171
1:06:16 PM	0.111	0.111
1:07:16 PM	0.091	0.091
1:08:16 PM	0.106	0.106
1:09:16 PM	0.247	0.247
1:10:16 PM	0.412	0.412
1:11:16 PM	0.195	0.195
1:12:16 PM	0.298	0.298
1:13:16 PM	0.11	0.11

1:14:16 PM	0.12	0.12
1:15:16 PM	0.102	0.102
1:16:16 PM	0.074	0.074
1:17:16 PM	0.057	0.057
1:18:16 PM	0.06	0.06
1:19:16 PM	0.053	0.053
1:20:16 PM	0.051	0.051
1:21:16 PM	0.1	0.1
1:22:16 PM	0.068	0.068
1:23:16 PM	0.162	0.162
1:24:16 PM	0.138	0.138
1:25:16 PM	0.19	0.19
1:26:16 PM	0.152	0.152
1:27:16 PM	0.069	0.069
1:28:16 PM	0.086	0.086
1:29:16 PM	0.223	0.223
1:30:16 PM	0.233	0.233
1:31:16 PM	0.228	0.228
1:32:16 PM	0.155	0.155
1:33:16 PM	0.156	0.156
1:34:16 PM	0.113	0.113
1:35:16 PM	0.078	0.078
1:36:16 PM	0.091	0.091
1:37:16 PM	0.127	0.127
1:38:16 PM	0.11	0.11
1:39:16 PM	0.124	0.124
1:40:16 PM	0.107	0.107
1:41:16 PM	0.17	0.17
1:42:16 PM	0.141	0.141
1:43:16 PM	0.14	0.14
1:44:16 PM	0.128	0.128
1:45:16 PM	0.153	0.153
1:46:16 PM	0.092	0.092
1:47:16 PM	0.18	0.18
1:48:16 PM	0.071	0.071
1:49:16 PM	0.13	0.13
1:50:16 PM	0.111	0.111
1:51:16 PM	0.105	0.105
1:52:16 PM	0.094	0.094
1:53:16 PM	0.066	0.066
1:54:16 PM	0.074	0.074
1:55:16 PM	0.072	0.072
1:56:16 PM	0.095	0.095
1:57:16 PM	0.086	0.086
1:58:16 PM	0.09	0.09
1:59:16 PM	0.105	0.105
2:00:16 PM	0.083	0.083
2:01:16 PM	0.078	0.078
2:02:16 PM	0.257	0.257
2:03:16 PM	0.09	0.09
2:04:16 PM	0.088	0.088
2:05:16 PM	0.069	0.069
2:06:16 PM	0.126	0.126
2:07:16 PM	0.105	0.105
2:08:16 PM	0.278	0.278
2:09:16 PM	0.19	0.19
2:10:16 PM	0.284	0.284
2:11:16 PM	0.119	0.119
2:12:16 PM	0.247	0.247
2:13:16 PM	0.369	0.369
2:14:16 PM	0.186	0.186
2:15:16 PM	0.153	0.153
2:16:16 PM	0.214	0.214
2:17:16 PM	0.101	0.101
2:18:16 PM	0.079	0.079
2:19:16 PM	0.089	0.089
2:20:16 PM	0.114	0.114
2:21:16 PM	0.091	0.091
2:22:16 PM	0.119	0.119

2:23:16 PM	0.106	0.106
2:24:16 PM	0.068	0.068
2:25:16 PM	0.1	0.1
2:26:16 PM	0.083	0.083
2:27:16 PM	0.12	0.12
2:28:16 PM	0.134	0.134
2:29:16 PM	0.131	0.131
2:30:16 PM	0.055	0.055
2:31:16 PM	0.055	0.055
2:32:16 PM	0.212	0.212
2:33:16 PM	0.15	0.15
2:34:16 PM	0.074	0.074
2:35:16 PM	0.069	0.069
2:36:16 PM	0.055	0.055
2:37:16 PM	0.076	0.076
2:38:16 PM	0.082	0.082
2:39:16 PM	0.066	0.066
2:40:16 PM	0.075	0.075
2:41:16 PM	0.12	0.12
2:42:16 PM	0.087	0.087
2:43:16 PM	0.121	0.121
2:44:16 PM	0.185	0.185
2:45:16 PM	0.07	0.07
2:46:16 PM	0.073	0.073
2:47:16 PM	0.065	0.065
2:48:16 PM	0.062	0.062
2:49:16 PM	0.067	0.067
2:50:16 PM	0.081	0.081
2:51:16 PM	0.475	0.475
2:52:16 PM	0.197	0.197
2:53:16 PM	0.125	0.125
2:54:16 PM	0.118	0.118
2:55:16 PM	0.093	0.093
2:56:16 PM	0.144	0.144
2:57:16 PM	0.168	0.168
2:58:16 PM	0.115	0.115
2:59:16 PM	0.123	0.123
3:00:16 PM	0.679	0.679
3:01:16 PM	0.089	0.089
3:02:16 PM	0.092	0.092
3:03:16 PM	0.113	0.113
3:04:16 PM	0.077	0.077
3:05:16 PM	0.113	0.113
3:06:16 PM	0.101	0.101
3:07:16 PM	0.074	0.074
3:08:16 PM	0.102	0.102
3:09:16 PM	0.088	0.088
3:10:16 PM	0.1	0.1
3:11:16 PM	0.755	0.755
3:12:16 PM	0.148	0.148
3:13:16 PM	0.113	0.113
3:14:16 PM	0.113	0.113
3:15:16 PM	0.125	0.125
3:16:16 PM	0.084	0.084
3:17:16 PM	0.072	0.072
3:18:16 PM	0.078	0.078
3:19:16 PM	0.14	0.14
3:20:16 PM	0.073	0.073
3:21:16 PM	0.142	0.142
3:22:16 PM	0.135	0.135
3:23:16 PM	0.111	0.111
3:24:16 PM	0.101	0.101
3:25:16 PM	0.067	0.067
3:26:16 PM	0.113	0.113
3:27:16 PM	0.635	0.635
3:28:16 PM	0.285	0.285
3:29:16 PM	0.212	0.212
3:30:16 PM	0.091	0.091
3:31:16 PM	0.235	0.235

3:32:16 PM	0.137	0.137
3:33:16 PM	0.594	0.594
3:34:16 PM	0.299	0.299
3:35:16 PM	0.347	0.347
3:36:16 PM	0.553	0.553
3:37:16 PM	0.224	0.224
3:38:16 PM	0.124	0.124
3:39:16 PM	0.449	0.449
3:40:16 PM	0.228	0.228
3:41:16 PM	0.183	0.183
3:42:16 PM	0.237	0.237
3:43:16 PM	0.284	0.284
3:44:16 PM	0.269	0.269
3:45:16 PM	0.358	0.358
3:46:16 PM	0.329	0.329
3:47:16 PM	0.177	0.177
3:48:16 PM	0.256	0.256
3:49:16 PM	0.191	0.191
3:50:16 PM	0.143	0.143
3:51:16 PM	0.172	0.172
3:52:16 PM	0.125	0.125
3:53:16 PM	0.16	0.16
3:54:16 PM	0.417	0.417

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_021
Test Start Time	10:32:10 AM
Test Start Date	4/8/2013
Test Length [D:H:M]	1:00:00
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.145
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	2.7
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	262

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
10:32:10 AM	0.385		
10:33:10 AM	0.014		
183	0.038		
244	0.018		
305	0.037		
366	0.06		
427	0.054		
488	0.146		
549	0.191		
610	0.11		
671	0.124		
71206	0		
71248	0.555		
71309	0.232		
71370	0.192		
71431	0.311		
71492	0.278		
71553	0.21		
71614	0.372		
71675	0.36		
71736	0.398		
71797	0.326		
71858	0.211		
71919	0.228		
71980	0.253		
72041	0.342		
72102	0.232		
72163	0.268		
72224	0.275		
72285	0.372		
72346	0.26		
72407	0.142		
72468	0.171		
72529	0.137		
72590	0.147		
72651	0.14		
72712	0.128		
72773	0.236		
72834	0.475		
72895	0.264		
72956	0.128		
73017	0.116		
73078	0.128		
73139	0.383		
73200	0.196		
73261	0.188		
73322	0.16		
73383	0.164		
73444	0.156		
73505	0.154		
73566	0.148		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_021
Test Start Time	10:32:10 AM
Test Start Date	4/8/2013
Test Length [D:H:M]	1:00:00
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.145
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	2.7
Mass TWA [mg/m3]	0
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	262

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
10:32:10 AM	0.385			0
10:33:10 AM	0.014			0
10:34:10 AM	0.038			0
10:35:10 AM	0.018			0
10:36:10 AM	0.037			0
10:37:10 AM	0.06			0
10:38:10 AM	0.054			0
10:39:10 AM	0.146			0
10:40:10 AM	0.191			0
10:41:10 AM	0.11			0
10:42:10 AM	0.124			0
10:43:10 AM	0			0
10:44:10 AM	0.555			0
10:45:10 AM	0.232			0
10:46:10 AM	0.192			0
10:47:10 AM	0.311			0
10:48:10 AM	0.278			0
10:49:10 AM	0.21			0
10:50:10 AM	0.372			0
10:51:10 AM	0.36			0
10:52:10 AM	0.398			0
10:53:10 AM	0.326			0
10:54:10 AM	0.211			0
10:55:10 AM	0.228			0
10:56:10 AM	0.253			0
10:57:10 AM	0.342			0
10:58:10 AM	0.232			0
10:59:10 AM	0.268			0
11:00:10 AM	0.275			0
11:01:10 AM	0.372			0
11:02:10 AM	0.26			0
11:03:10 AM	0.142			0
11:04:10 AM	0.171			0
11:05:10 AM	0.137			0
11:06:10 AM	0.147			0
11:07:10 AM	0.14			0
11:08:10 AM	0.128			0
11:09:10 AM	0.236			0
11:10:10 AM	0.475			0
11:11:10 AM	0.264			0
11:12:10 AM	0.128			0
11:13:10 AM	0.116			0
11:14:10 AM	0.128			0
11:15:10 AM	0.383			0
11:16:10 AM	0.196			0
11:17:10 AM	0.188			0
11:18:10 AM	0.16			0
11:19:10 AM	0.164			0
11:20:10 AM	0.156			0
11:21:10 AM	0.154			0
11:22:10 AM	0.148			0

73627	0.119	11:23:10 AM	0.119	0
73688	0.108	11:24:10 AM	0.108	0
73749	0.112	11:25:10 AM	0.112	0
73810	0.122	11:26:10 AM	0.122	0
73871	0.355	11:27:10 AM	0.355	0
73932	0.534	11:28:10 AM	0.534	0
73993	0.112	11:29:10 AM	0.112	0
74054	0.078	11:30:10 AM	0.078	0
74115	0.058	11:31:10 AM	0.058	0
74176	0.048	11:32:10 AM	0.048	0
74237	0.055	11:33:10 AM	0.055	0
74298	0.056	11:34:10 AM	0.056	0
74359	0.054	11:35:10 AM	0.054	0
74420	0.048	11:36:10 AM	0.048	0
74481	0.061	11:37:10 AM	0.061	0
74542	0.046	11:38:10 AM	0.046	0
74603	0.042	11:39:10 AM	0.042	0
74664	0.085	11:40:10 AM	0.085	0
74725	0.109	11:41:10 AM	0.109	0
74786	0.052	11:42:10 AM	0.052	0
74847	0.05	11:43:10 AM	0.05	0
74908	0.058	11:44:10 AM	0.058	0
74969	0.054	11:45:10 AM	0.054	0
75030	0.058	11:46:10 AM	0.058	0
75091	0.052	11:47:10 AM	0.052	0
75152	0.079	11:48:10 AM	0.079	0
75213	0.076	11:49:10 AM	0.076	0
75274	0.102	11:50:10 AM	0.102	0
75335	0.083	11:51:10 AM	0.083	0
75396	0.089	11:52:10 AM	0.089	0
75457	0.206	11:53:10 AM	0.206	0
75518	0.257	11:54:10 AM	0.257	0
75579	0.174	11:55:10 AM	0.174	0
75640	0.088	11:56:10 AM	0.088	0
75701	0.084	11:57:10 AM	0.084	0
75762	0.08	11:58:10 AM	0.08	0
75823	0.09	11:59:10 AM	0.09	0
75884	0.092	12:00:10 PM	0.092	0
75945	0.078	12:01:10 PM	0.078	0
76006	0.092	12:02:10 PM	0.092	0
76067	0.072	12:03:10 PM	0.072	0
76128	0.051	12:04:10 PM	0.051	0
76189	0.079	12:05:10 PM	0.079	0
76250	0.189	12:06:10 PM	0.189	0
76311	0.131	12:07:10 PM	0.131	0
76372	0.064	12:08:10 PM	0.064	0
76433	0.064	12:09:10 PM	0.064	0
76494	0.075	12:10:10 PM	0.075	0
76555	0.072	12:11:10 PM	0.072	0
76616	0.096	12:12:10 PM	0.096	0
76677	0.069	12:13:10 PM	0.069	0
76738	0.071	12:14:10 PM	0.071	0
76799	0.057	12:15:10 PM	0.057	0
76860	0.055	12:16:10 PM	0.055	0
76921	0.058	12:17:10 PM	0.058	0
76982	0.069	12:18:10 PM	0.069	0
77043	0.09	12:19:10 PM	0.09	0
77104	0.076	12:20:10 PM	0.076	0
77165	0.091	12:21:10 PM	0.091	0
77226	0.074	12:22:10 PM	0.074	0
77287	0.076	12:23:10 PM	0.076	0
77348	0.085	12:24:10 PM	0.085	0
77409	0.077	12:25:10 PM	0.077	0
77470	0.081	12:26:10 PM	0.081	0
77531	0.078	12:27:10 PM	0.078	0
77592	0.24	12:28:10 PM	0.24	0
77653	0.289	12:29:10 PM	0.289	0
77714	0.232	12:30:10 PM	0.232	0
77775	0.265	12:31:10 PM	0.265	0
77836	0.103	12:32:10 PM	0.103	0
77897	0.171	12:33:10 PM	0.171	0
77958	0.399	12:34:10 PM	0.399	0

78019	0.319	12:35:10 PM	0.319	0
78080	0.107	12:36:10 PM	0.107	0
78141	0.082	12:37:10 PM	0.082	0
78202	0.091	12:38:10 PM	0.091	0
78263	0.071	12:39:10 PM	0.071	0
78324	0.057	12:40:10 PM	0.057	0
78385	0.058	12:41:10 PM	0.058	0
78446	0.077	12:42:10 PM	0.077	0
78507	0.063	12:43:10 PM	0.063	0
78568	0.065	12:44:10 PM	0.065	0
78629	0.078	12:45:10 PM	0.078	0
78690	0.062	12:46:10 PM	0.062	0
78751	0.04	12:47:10 PM	0.04	0
78812	0.054	12:48:10 PM	0.054	0
78873	0.052	12:49:10 PM	0.052	0
78934	0.048	12:50:10 PM	0.048	0
78995	0.061	12:51:10 PM	0.061	0
79056	0.068	12:52:10 PM	0.068	0
79117	0.07	12:53:10 PM	0.07	0
79178	0.061	12:54:10 PM	0.061	0
79239	0.061	12:55:10 PM	0.061	0
79300	0.047	12:56:10 PM	0.047	0
79361	0.063	12:57:10 PM	0.063	0
79422	0.063	12:58:10 PM	0.063	0
79483	0.044	12:59:10 PM	0.044	0
79544	0.041	1:00:10 PM	0.041	0
79605	0.074	1:01:10 PM	0.074	0
79666	0.07	1:02:10 PM	0.07	0
79727	0.087	1:03:10 PM	0.087	0
79788	0.119	1:04:10 PM	0.119	0
79849	0.088	1:05:10 PM	0.088	0
79910	0.075	1:06:10 PM	0.075	0
79971	0.064	1:07:10 PM	0.064	0
80032	0.076	1:08:10 PM	0.076	0
80093	0.067	1:09:10 PM	0.067	0
80154	0.059	1:10:10 PM	0.059	0
80215	0.052	1:11:10 PM	0.052	0
80276	0.057	1:12:10 PM	0.057	0
80337	0.087	1:13:10 PM	0.087	0
80398	0.069	1:14:10 PM	0.069	0
80459	0.21	1:15:10 PM	0.21	0
80520	1.94	1:16:10 PM	1.94	0
80581	0.214	1:17:10 PM	0.214	0
80642	0.18	1:18:10 PM	0.18	0
80703	0.127	1:19:10 PM	0.127	0
80764	0.266	1:20:10 PM	0.266	0
80825	0.316	1:21:10 PM	0.316	0
80886	0.155	1:22:10 PM	0.155	0
80947	0.115	1:23:10 PM	0.115	0
81008	0.083	1:24:10 PM	0.083	0
81069	0.04	1:25:10 PM	0.04	0
81130	0.225	1:26:10 PM	0.225	0
81191	0.199	1:27:10 PM	0.199	0
81252	0.118	1:28:10 PM	0.118	0
81313	0.106	1:29:10 PM	0.106	0
81374	0.043	1:30:10 PM	0.043	0
81435	0.274	1:31:10 PM	0.274	0
81496	0.166	1:32:10 PM	0.166	0
81557	0.07	1:33:10 PM	0.07	0
81618	0.064	1:34:10 PM	0.064	0
81679	0.035	1:35:10 PM	0.035	0
81740	0.171	1:36:10 PM	0.171	0
81801	0.09	1:37:10 PM	0.09	0
81862	0.055	1:38:10 PM	0.055	0
81923	0.028	1:39:10 PM	0.028	0
81984	0.014	1:40:10 PM	0.014	0
82045	0.555	1:41:10 PM	0.555	0
82106	0.583	1:42:10 PM	0.583	0
82167	0.229	1:43:10 PM	0.229	0
82228	0.083	1:44:10 PM	0.083	0
82289	0.169	1:45:10 PM	0.169	0
82350	0.152	1:46:10 PM	0.152	0

82411	0.066	1:47:10 PM	0.066	0
82472	0.031	1:48:10 PM	0.031	0
82533	0.035	1:49:10 PM	0.035	0
82594	0.042	1:50:10 PM	0.042	0
82655	0.113	1:51:10 PM	0.113	0
82716	0.065	1:52:10 PM	0.065	0
82777	0.096	1:53:10 PM	0.096	0
82838	0.242	1:54:10 PM	0.242	0
82899	0.122	1:55:10 PM	0.122	0
82960	0.085	1:56:10 PM	0.085	0
83021	0.064	1:57:10 PM	0.064	0
83082	0.039	1:58:10 PM	0.039	0
83143	0.057	1:59:10 PM	0.057	0
83204	0.045	2:00:10 PM	0.045	0
83265	0.167	2:01:10 PM	0.167	0
83326	0.081	2:02:10 PM	0.081	0
83387	0.156	2:03:10 PM	0.156	0
83448	0.055	2:04:10 PM	0.055	0
83509	0.089	2:05:10 PM	0.089	0
83570	0.059	2:06:10 PM	0.059	0
83631	0.089	2:07:10 PM	0.089	0
83692	0.069	2:08:10 PM	0.069	0
83753	0.089	2:09:10 PM	0.089	0
83814	0.093	2:10:10 PM	0.093	0
83875	0.15	2:11:10 PM	0.15	0
83936	0.28	2:12:10 PM	0.28	0
83997	0.122	2:13:10 PM	0.122	0
84058	0.039	2:14:10 PM	0.039	0
84119	0.03	2:15:10 PM	0.03	0
84180	0.05	2:16:10 PM	0.05	0
84241	0.114	2:17:10 PM	0.114	0
84302	0.062	2:18:10 PM	0.062	0
84363	0.061	2:19:10 PM	0.061	0
84424	0.081	2:20:10 PM	0.081	0
84485	0.078	2:21:10 PM	0.078	0
84546	0.057	2:22:10 PM	0.057	0
84607	0.171	2:23:10 PM	0.171	0
84668	0.125	2:24:10 PM	0.125	0
84729	0.148	2:25:10 PM	0.148	0
84790	0.172	2:26:10 PM	0.172	0
84851	0.031	2:27:10 PM	0.031	0
84912	0.045	2:28:10 PM	0.045	0
84973	0.058	2:29:10 PM	0.058	0
85034	0.083	2:30:10 PM	0.083	0
85095	0.054	2:31:10 PM	0.054	0
85156	0.156	2:32:10 PM	0.156	0
85217	0.038	2:33:10 PM	0.038	0
85278	0.04	2:34:10 PM	0.04	0
85339	0.133	2:35:10 PM	0.133	0
85400	0.153	2:36:10 PM	0.153	0
85461	0.113	2:37:10 PM	0.113	0
85522	0.28	2:38:10 PM	0.28	0
85583	0.362	2:39:10 PM	0.362	0
85644	0.324	2:40:10 PM	0.324	0
85705	0.106	2:41:10 PM	0.106	0
85766	2.7	2:42:10 PM	2.7	0
85827	0.156	2:43:10 PM	0.156	0
85888	0.122	2:44:10 PM	0.122	0
85949	0.02	2:45:10 PM	0.02	0
86010	0.68	2:46:10 PM	0.68	0
86071	0.051	2:47:10 PM	0.051	0
86132	0.003	2:48:10 PM	0.003	0
86193	0.005	2:49:10 PM	0.005	0
86254	0.013	2:50:10 PM	0.013	0
86315	0.016	2:51:10 PM	0.016	0
86376	0.024	2:52:10 PM	0.024	0
86437	0.021	2:53:10 PM	0.021	0

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_022
Test Start Time	6:49:04 AM
Test Start Date	4/10/2013
Test Length [D:H:M]	0:04:15
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.162
Mass Minimum [mg/m3]	0.026
Mass Maximum [mg/m3]	9.03
Mass TWA [mg/m3]	0.086
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	251

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
6:49:04 AM	9.03		
6:50:04 AM	0.053		
6:51:04 AM	0.072		
6:52:04 AM	0.095		
6:53:04 AM	0.204		
6:54:04 AM	0.091		
6:55:04 AM	0.075		
6:56:04 AM	0.077		
6:57:04 AM	0.057		
6:58:04 AM	0.44		
6:59:04 AM	0.082		
7:00:04 AM	0.096		
7:01:04 AM	0.064		
7:02:04 AM	0.03		
7:03:04 AM	0.025		
7:04:04 AM	0.032		
7:05:04 AM	0.043		
7:06:04 AM	0.111		
7:07:04 AM	0.044		
7:08:04 AM	0.035		
7:09:04 AM	0.073		
7:10:04 AM	0.127		
7:11:04 AM	0.054		
7:12:04 AM	0.038		
7:13:04 AM	0.042		
7:14:04 AM	0.152		
7:15:04 AM	0.075		
7:16:04 AM	0.035		
7:17:04 AM	0.027		
7:18:04 AM	0.052		
7:19:04 AM	0.152		
7:20:04 AM	0.045		
7:21:04 AM	0.291		
7:22:04 AM	0.7		
7:23:04 AM	0.13		
7:24:04 AM	0.098		
7:25:04 AM	0.077		
7:26:04 AM	0.071		
7:27:04 AM	0.087		
7:28:04 AM	0.072		
7:29:04 AM	0.053		
7:30:04 AM	0.083		
7:31:04 AM	0.213		
7:32:04 AM	0.849		
7:33:04 AM	0.116		
7:34:04 AM	0.05		
7:35:04 AM	0.039		
7:36:04 AM	0.251		
7:37:04 AM	5.53		
7:38:04 AM	0.316		
7:39:04 AM	0.161		
7:40:04 AM	0.086		

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_022
Test Start Time	6:49:04 AM
Test Start Date	4/10/2013
Test Length [D:H:M]	0:04:15
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.162
Mass Minimum [mg/m3]	0.026
Mass Maximum [mg/m3]	9.03
Mass TWA [mg/m3]	0.086
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	251

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
6:49:04 AM				0
6:50:04 AM	9.03			0
6:51:04 AM	0.053			0
6:52:04 AM	0.072			0
6:53:04 AM	0.095			0
6:54:04 AM	0.204			0
6:55:04 AM	0.091			0
6:56:04 AM	0.075			0
6:57:04 AM	0.077			0
6:58:04 AM	0.057			0
6:59:04 AM	0.44			-0.001
7:00:04 AM	0.083			0
7:01:04 AM	0.096			0
7:02:04 AM	0.064			0
7:03:04 AM	0.03			-0.001
7:04:04 AM	0.026			0
7:05:04 AM	0.032			0
7:06:04 AM	0.043			0
7:07:04 AM	0.111			0
7:08:04 AM	0.044			0
7:09:04 AM	0.035			0
7:10:04 AM	0.073			0
7:11:04 AM	0.127			0
7:12:04 AM	0.054			0
7:13:04 AM	0.038			0
7:14:04 AM	0.042			0
7:15:04 AM	0.152			0
7:16:04 AM	0.075			0
7:17:04 AM	0.035			0
7:18:04 AM	0.027			0
7:19:04 AM	0.052			0
7:20:04 AM	0.152			0
7:21:04 AM	0.045			0
7:22:04 AM	0.291			0.1
7:23:04 AM	0.6			0
7:24:04 AM	0.13			0
7:25:04 AM	0.098			0
7:26:04 AM	0.077			0
7:27:04 AM	0.071			0
7:28:04 AM	0.087			0
7:29:04 AM	0.072			0
7:30:04 AM	0.053			0
7:31:04 AM	0.083			0
7:32:04 AM	0.213			0
7:33:04 AM	0.849			0
7:34:04 AM	0.116			0
7:35:04 AM	0.05			0
7:36:04 AM	0.039			0
7:37:04 AM	0.251			0
7:38:04 AM	5.53			0
7:39:04 AM	0.316			0
7:40:04 AM	0.161			0

7:41:04 AM	0.242	7:41:04 AM	0.086	0
7:42:04 AM	0.096	7:42:04 AM	0.242	0
7:43:04 AM	0.082	7:43:04 AM	0.096	0
7:44:04 AM	0.089	7:44:04 AM	0.082	0
7:45:04 AM	0.046	7:45:04 AM	0.089	0
7:46:04 AM	0.061	7:46:04 AM	0.046	0
7:47:04 AM	0.099	7:47:04 AM	0.061	0
7:48:04 AM	0.09	7:48:04 AM	0.099	0
7:49:04 AM	0.058	7:49:04 AM	0.09	0
7:50:04 AM	0.043	7:50:04 AM	0.058	0
7:51:04 AM	0.095	7:51:04 AM	0.043	0
7:52:04 AM	0.059	7:52:04 AM	0.095	0
7:53:04 AM	0.165	7:53:04 AM	0.059	0
7:54:04 AM	0.367	7:54:04 AM	0.165	0.005
7:55:04 AM	0.101	7:55:04 AM	0.362	0
7:56:04 AM	0.123	7:56:04 AM	0.101	0
7:57:04 AM	0.227	7:57:04 AM	0.123	0
7:58:04 AM	0.094	7:58:04 AM	0.227	0
7:59:04 AM	0.064	7:59:04 AM	0.094	0
8:00:04 AM	0.041	8:00:04 AM	0.064	0
8:01:04 AM	0.077	8:01:04 AM	0.041	0
8:02:04 AM	0.052	8:02:04 AM	0.077	0
8:03:04 AM	0.04	8:03:04 AM	0.052	0
8:04:04 AM	0.042	8:04:04 AM	0.04	0
8:05:04 AM	0.081	8:05:04 AM	0.042	0
8:06:04 AM	0.18	8:06:04 AM	0.081	0
8:07:04 AM	0.135	8:07:04 AM	0.18	0
8:08:04 AM	0.053	8:08:04 AM	0.135	0
8:09:04 AM	0.042	8:09:04 AM	0.053	0
8:10:04 AM	0.042	8:10:04 AM	0.042	0
8:11:04 AM	0.041	8:11:04 AM	0.042	0
8:12:04 AM	0.049	8:12:04 AM	0.041	0
8:13:04 AM	0.065	8:13:04 AM	0.049	0
8:14:04 AM	0.055	8:14:04 AM	0.065	0
8:15:04 AM	0.077	8:15:04 AM	0.055	0
8:16:04 AM	0.054	8:16:04 AM	0.077	0
8:17:04 AM	0.044	8:17:04 AM	0.054	0
8:18:04 AM	0.054	8:18:04 AM	0.044	0
8:19:04 AM	0.056	8:19:04 AM	0.054	0
8:20:04 AM	0.058	8:20:04 AM	0.056	0
8:21:04 AM	0.209	8:21:04 AM	0.058	0
8:22:04 AM	0.522	8:22:04 AM	0.209	0
8:23:04 AM	0.111	8:23:04 AM	0.522	0
8:24:04 AM	0.174	8:24:04 AM	0.111	0
8:25:04 AM	0.162	8:25:04 AM	0.174	0
8:26:04 AM	0.063	8:26:04 AM	0.162	0
8:27:04 AM	0.042	8:27:04 AM	0.063	0
8:28:04 AM	0.055	8:28:04 AM	0.042	0
8:29:04 AM	0.085	8:29:04 AM	0.055	0
8:30:04 AM	0.116	8:30:04 AM	0.085	0
8:31:04 AM	0.051	8:31:04 AM	0.116	0
8:32:04 AM	0.135	8:32:04 AM	0.051	0
8:33:04 AM	0.196	8:33:04 AM	0.135	0
8:34:04 AM	0.089	8:34:04 AM	0.196	0
8:35:04 AM	0.073	8:35:04 AM	0.089	0
8:36:04 AM	0.566	8:36:04 AM	0.073	0
8:37:04 AM	0.075	8:37:04 AM	0.566	0
8:38:04 AM	0.068	8:38:04 AM	0.075	0
8:39:04 AM	0.079	8:39:04 AM	0.068	0
8:40:04 AM	0.056	8:40:04 AM	0.079	0
8:41:04 AM	0.055	8:41:04 AM	0.056	0
8:42:04 AM	0.066	8:42:04 AM	0.055	0
8:43:04 AM	0.111	8:43:04 AM	0.066	0
8:44:04 AM	0.077	8:44:04 AM	0.111	0
8:45:04 AM	0.073	8:45:04 AM	0.077	0
8:46:04 AM	0.071	8:46:04 AM	0.073	0
8:47:04 AM	0.096	8:47:04 AM	0.071	0
8:48:04 AM	0.078	8:48:04 AM	0.096	0
8:49:04 AM	0.075	8:49:04 AM	0.078	0
8:50:04 AM	0.189	8:50:04 AM	0.075	0
8:51:04 AM	0.239	8:51:04 AM	0.189	0
8:52:04 AM	0.095	8:52:04 AM	0.239	0

8:53:04 AM	0.072	8:53:04 AM	0.095	0
8:54:04 AM	0.094	8:54:04 AM	0.072	0
8:55:04 AM	0.079	8:55:04 AM	0.094	0
8:56:04 AM	0.094	8:56:04 AM	0.079	0
8:57:04 AM	0.079	8:57:04 AM	0.094	0
8:58:04 AM	0.083	8:58:04 AM	0.079	0
8:59:04 AM	0.112	8:59:04 AM	0.083	0
9:00:04 AM	0.11	9:00:04 AM	0.112	0
9:01:04 AM	0.173	9:01:04 AM	0.11	0
9:02:04 AM	0.125	9:02:04 AM	0.173	0
9:03:04 AM	0.11	9:03:04 AM	0.125	0
9:04:04 AM	0.224	9:04:04 AM	0.11	0
9:05:04 AM	0.085	9:05:04 AM	0.224	0
9:06:04 AM	0.095	9:06:04 AM	0.085	0
9:07:04 AM	0.09	9:07:04 AM	0.095	0
9:08:04 AM	0.071	9:08:04 AM	0.09	0
9:09:04 AM	0.057	9:09:04 AM	0.071	0
9:10:04 AM	0.059	9:10:04 AM	0.057	0
9:11:04 AM	0.198	9:11:04 AM	0.059	0
9:12:04 AM	0.098	9:12:04 AM	0.198	0
9:13:04 AM	0.109	9:13:04 AM	0.098	0
9:14:04 AM	0.089	9:14:04 AM	0.109	0
9:15:04 AM	0.087	9:15:04 AM	0.089	0
9:16:04 AM	0.057	9:16:04 AM	0.087	0
9:17:04 AM	0.076	9:17:04 AM	0.057	0
9:18:04 AM	0.082	9:18:04 AM	0.076	0
9:19:04 AM	0.073	9:19:04 AM	0.082	0
9:20:04 AM	0.099	9:20:04 AM	0.073	0
9:21:04 AM	0.106	9:21:04 AM	0.099	0
9:22:04 AM	0.085	9:22:04 AM	0.106	0
9:23:04 AM	0.102	9:23:04 AM	0.085	0
9:24:04 AM	0.094	9:24:04 AM	0.102	0
9:25:04 AM	0.055	9:25:04 AM	0.094	0
9:26:04 AM	0.143	9:26:04 AM	0.055	0
9:27:04 AM	0.118	9:27:04 AM	0.143	0
9:28:04 AM	0.059	9:28:04 AM	0.118	0
9:29:04 AM	0.139	9:29:04 AM	0.059	0
9:30:04 AM	0.101	9:30:04 AM	0.139	0
9:31:04 AM	0.109	9:31:04 AM	0.101	0
9:32:04 AM	0.071	9:32:04 AM	0.109	0
9:33:04 AM	0.065	9:33:04 AM	0.071	0
9:34:04 AM	0.069	9:34:04 AM	0.065	0
9:35:04 AM	0.076	9:35:04 AM	0.069	0
9:36:04 AM	0.074	9:36:04 AM	0.076	0
9:37:04 AM	0.099	9:37:04 AM	0.074	0
9:38:04 AM	0.146	9:38:04 AM	0.099	0
9:39:04 AM	0.076	9:39:04 AM	0.146	0
9:40:04 AM	0.106	9:40:04 AM	0.076	0
9:41:04 AM	0.058	9:41:04 AM	0.106	0
9:42:04 AM	0.191	9:42:04 AM	0.058	0
9:43:04 AM	0.165	9:43:04 AM	0.191	0
9:44:04 AM	0.107	9:44:04 AM	0.165	0
9:45:04 AM	0.14	9:45:04 AM	0.107	0
9:46:04 AM	0.139	9:46:04 AM	0.14	0
9:47:04 AM	0.103	9:47:04 AM	0.139	0
9:48:04 AM	0.067	9:48:04 AM	0.103	0
9:49:04 AM	0.097	9:49:04 AM	0.067	0
9:50:04 AM	0.116	9:50:04 AM	0.097	0
9:51:04 AM	0.226	9:51:04 AM	0.116	0
9:52:04 AM	0.077	9:52:04 AM	0.226	0
9:53:04 AM	0.084	9:53:04 AM	0.077	0
9:54:04 AM	0.069	9:54:04 AM	0.084	0
9:55:04 AM	0.106	9:55:04 AM	0.069	0
9:56:04 AM	0.073	9:56:04 AM	0.106	0
9:57:04 AM	0.063	9:57:04 AM	0.073	0
9:58:04 AM	0.079	9:58:04 AM	0.063	0
9:59:04 AM	0.061	9:59:04 AM	0.079	0
10:00:04 AM	0.095	10:00:04 AM	0.061	0
10:01:04 AM	0.076	10:01:04 AM	0.095	0
10:02:04 AM	0.055	10:02:04 AM	0.076	0
10:03:04 AM	0.075	10:03:04 AM	0.055	0
10:04:04 AM	0.095	10:04:04 AM	0.075	0

10:05:04 AM	0.254	10:05:04 AM	0.095	0
10:06:04 AM	0.111	10:06:04 AM	0.254	0
10:07:04 AM	0.09	10:07:04 AM	0.111	0
10:08:04 AM	0.064	10:08:04 AM	0.09	0
10:09:04 AM	0.061	10:09:04 AM	0.064	0
10:10:04 AM	0.106	10:10:04 AM	0.061	0
10:11:04 AM	0.08	10:11:04 AM	0.106	0
10:12:04 AM	0.058	10:12:04 AM	0.08	0
10:13:04 AM	0.064	10:13:04 AM	0.058	0
10:14:04 AM	0.083	10:14:04 AM	0.064	0
10:15:04 AM	0.07	10:15:04 AM	0.083	0
10:16:04 AM	0.142	10:16:04 AM	0.07	0
10:17:04 AM	0.116	10:17:04 AM	0.142	0
10:18:04 AM	0.07	10:18:04 AM	0.116	0
10:19:04 AM	0.053	10:19:04 AM	0.07	0
10:20:04 AM	0.074	10:20:04 AM	0.053	0
10:21:04 AM	0.101	10:21:04 AM	0.074	0
10:22:04 AM	0.068	10:22:04 AM	0.101	0
10:23:04 AM	0.06	10:23:04 AM	0.068	0
10:24:04 AM	0.061	10:24:04 AM	0.06	0
10:25:04 AM	0.12	10:25:04 AM	0.061	0
10:26:04 AM	0.079	10:26:04 AM	0.12	0
10:27:04 AM	0.116	10:27:04 AM	0.079	0
10:28:04 AM	0.099	10:28:04 AM	0.116	0
10:29:04 AM	0.105	10:29:04 AM	0.099	0
10:30:04 AM	0.086	10:30:04 AM	0.105	0
10:31:04 AM	0.069	10:31:04 AM	0.086	0
10:32:04 AM	0.064	10:32:04 AM	0.069	0
10:33:04 AM	0.071	10:33:04 AM	0.064	0
10:34:04 AM	0.104	10:34:04 AM	0.071	0
10:35:04 AM	0.068	10:35:04 AM	0.104	0
10:36:04 AM	0.084	10:36:04 AM	0.068	0
10:37:04 AM	0.056	10:37:04 AM	0.084	0
10:38:04 AM	0.056	10:38:04 AM	0.056	0
10:39:04 AM	0.23	10:39:04 AM	0.056	0
10:40:04 AM	0.098	10:40:04 AM	0.23	0
10:41:04 AM	0.073	10:41:04 AM	0.098	0
10:42:04 AM	0.096	10:42:04 AM	0.073	0
10:43:04 AM	0.127	10:43:04 AM	0.096	0
10:44:04 AM	0.07	10:44:04 AM	0.127	0
10:45:04 AM	0.068	10:45:04 AM	0.07	0
10:46:04 AM	0.08	10:46:04 AM	0.068	0
10:47:04 AM	0.135	10:47:04 AM	0.08	0
10:48:04 AM	0.078	10:48:04 AM	0.135	0
10:49:04 AM	0.074	10:49:04 AM	0.078	0
10:50:04 AM	0.073	10:50:04 AM	0.074	0
10:51:04 AM	0.063	10:51:04 AM	0.073	0
10:52:04 AM	0.169	10:52:04 AM	0.063	0
10:53:04 AM	0.142	10:53:04 AM	0.169	0
10:54:04 AM	0.062	10:54:04 AM	0.142	0
10:55:04 AM	0.06	10:55:04 AM	0.062	0
10:56:04 AM	0.067	10:56:04 AM	0.06	0
10:57:04 AM	0.062	10:57:04 AM	0.067	0
10:58:04 AM	0.086	10:58:04 AM	0.062	0
10:59:04 AM	0.088	10:59:04 AM	0.086	0
11:00:04 AM	0.595	11:00:04 AM	0.088	#REF!
11:01:04 AM	0.055			0.055
11:02:04 AM	0.098			0.098
11:03:04 AM	0.219			0.219
11:04:04 AM	0.137			0.137
11:05:04 AM	0.141			0.141
11:06:04 AM	0.091			0.091
11:07:04 AM	0.142			0.142
11:08:04 AM	0.241			0.241
11:09:04 AM	0.095			0.095
11:10:04 AM	0.274			0.274
11:11:04 AM	0.058			0.058
11:12:04 AM	0.047			0.047
11:13:04 AM	0.032			0.032
11:14:04 AM	0.029			0.029
11:15:04 AM	0.04			0.04
11:16:04 AM	0.049			0.049

11:17:04 AM	0.058	0.058
11:18:04 AM	0.05	0.05
11:19:04 AM	0.035	0.035
11:20:04 AM	0.068	0.068
11:21:04 AM	0.091	0.091
11:22:04 AM	0.047	0.047
11:23:04 AM	0.044	0.044
11:24:04 AM	0.061	0.061
11:25:04 AM	0.166	0.166
11:26:04 AM	0.066	0.066
11:27:04 AM	0.056	0.056
11:28:04 AM	0.036	0.036
11:29:04 AM	0.057	0.057
11:30:04 AM	0.096	0.096
11:31:04 AM	0.053	0.053
11:32:04 AM	0.046	0.046
11:33:04 AM	0.142	0.142
11:34:04 AM	0.144	0.144
11:35:04 AM	0.099	0.099
11:36:04 AM	0.113	0.113
11:37:04 AM	0.207	0.207
11:38:04 AM	0.115	0.115
11:39:04 AM	0.238	0.238
11:40:04 AM	0.069	0.069
11:41:04 AM	0.073	0.073
11:42:04 AM	0.096	0.096
11:43:04 AM	0.165	0.165
11:44:04 AM	0.106	0.106
11:45:04 AM	0.07	0.07
11:46:04 AM	0.052	0.052
11:47:04 AM	0.185	0.185
11:48:04 AM	0.114	0.114
11:49:04 AM	0.2	0.2
11:50:04 AM	0.241	0.241
11:51:04 AM	0.111	0.111
11:52:04 AM	0.183	0.183
11:53:04 AM	0.133	0.133
11:54:04 AM	0.158	0.158
11:55:04 AM	0.15	0.15
11:56:04 AM	0.388	0.388
11:57:04 AM	0.048	0.048
11:58:04 AM	0.103	0.103
11:59:04 AM	0.112	0.112
12:00:04 PM	0.052	0.052
12:01:04 PM	0.039	0.039
12:02:04 PM	0.114	0.114
12:03:04 PM	0.053	0.053
12:04:04 PM	0.091	0.091
12:05:04 PM	0.074	0.074
12:06:04 PM	0.086	0.086
12:07:04 PM	0.064	0.064
12:08:04 PM	0.058	0.058
12:09:04 PM	0.06	0.06
12:10:04 PM	0.112	0.112
12:11:04 PM	0.079	0.079
12:12:04 PM	0.068	0.068
12:13:04 PM	0.068	0.068
12:14:04 PM	0.078	0.078
12:15:04 PM	0.053	0.053
12:16:04 PM	0.1	0.1
12:17:04 PM	0.078	0.078
12:18:04 PM	0.138	0.138
12:19:04 PM	0.09	0.09
12:20:04 PM	0.06	0.06
12:21:04 PM	0.054	0.054
12:22:04 PM	0.045	0.045
12:23:04 PM	0.041	0.041
12:24:04 PM	0.042	0.042
12:25:04 PM	0.055	0.055
12:26:04 PM	0.077	0.077
12:27:04 PM	0.059	0.059
12:28:04 PM	0.047	0.047

12:29:04 PM	0.052	0.052
12:30:04 PM	0.056	0.056
12:31:04 PM	0.063	0.063
12:32:04 PM	0.064	0.064
12:33:04 PM	0.07	0.07
12:34:04 PM	0.075	0.075
12:35:04 PM	0.088	0.088
12:36:04 PM	0.102	0.102
12:37:04 PM	0.104	0.104
12:38:04 PM	0.05	0.05
12:39:04 PM	0.044	0.044
12:40:04 PM	0.057	0.057
12:41:04 PM	0.072	0.072
12:42:04 PM	0.111	0.111
12:43:04 PM	0.06	0.06
12:44:04 PM	0.092	0.092
12:45:04 PM	0.128	0.128
12:46:04 PM	0.08	0.08
12:47:04 PM	0.076	0.076
12:48:04 PM	0.071	0.071
12:49:04 PM	0.087	0.087
12:50:04 PM	0.077	0.077
12:51:04 PM	0.071	0.071
12:52:04 PM	0.072	0.072
12:53:04 PM	0.065	0.065
12:54:04 PM	0.078	0.078
12:55:04 PM	0.085	0.085
12:56:04 PM	0.084	0.084
12:57:04 PM	0.064	0.064
12:58:04 PM	0.091	0.091
12:59:04 PM	0.088	0.088
1:00:04 PM	0.091	0.091
1:01:04 PM	0.064	0.064
1:02:04 PM	0.073	0.073
1:03:04 PM	0.145	0.145
1:04:04 PM	0.102	0.102
1:05:04 PM	0.091	0.091
1:06:04 PM	0.071	0.071
1:07:04 PM	0.079	0.079
1:08:04 PM	0.08	0.08
1:09:04 PM	0.08	0.08
1:10:04 PM	0.073	0.073
1:11:04 PM	0.095	0.095
1:12:04 PM	0.103	0.103
1:13:04 PM	0.214	0.214
1:14:04 PM	0.118	0.118
1:15:04 PM	0.138	0.138
1:16:04 PM	0.152	0.152
1:17:04 PM	0.113	0.113
1:18:04 PM	0.074	0.074
1:19:04 PM	0.079	0.079
1:20:04 PM	0.091	0.091
1:21:04 PM	0.068	0.068
1:22:04 PM	0.061	0.061
1:23:04 PM	0.128	0.128
1:24:04 PM	0.209	0.209
1:25:04 PM	0.076	0.076
1:26:04 PM	0.058	0.058
1:27:04 PM	0.075	0.075
1:28:04 PM	0.082	0.082
1:29:04 PM	0.058	0.058
1:30:04 PM	0.076	0.076
1:31:04 PM	0.084	0.084
1:32:04 PM	0.075	0.075
1:33:04 PM	0.104	0.104
1:34:04 PM	0.09	0.09
1:35:04 PM	0.081	0.081
1:36:04 PM	0.111	0.111
1:37:04 PM	0.097	0.097
1:38:04 PM	0.06	0.06
1:39:04 PM	0.092	0.092
1:40:04 PM	0.1	0.1

1:41:04 PM	0.061	0.061
1:42:04 PM	0.078	0.078
1:43:04 PM	0.087	0.087
1:44:04 PM	0.1	0.1
1:45:04 PM	0.067	0.067
1:46:04 PM	0.071	0.071
1:47:04 PM	0.073	0.073
1:48:04 PM	0.083	0.083
1:49:04 PM	0.075	0.075
1:50:04 PM	0.093	0.093
1:51:04 PM	0.179	0.179
1:52:04 PM	0.082	0.082
1:53:04 PM	0.115	0.115
1:54:04 PM	0.069	0.069
1:55:04 PM	0.164	0.164
1:56:04 PM	0.187	0.187
1:57:04 PM	0.123	0.123
1:58:04 PM	0.109	0.109
1:59:04 PM	0.122	0.122
2:00:04 PM	0.092	0.092
2:01:04 PM	0.071	0.071
2:02:04 PM	0.078	0.078
2:03:04 PM	0.1	0.1
2:04:04 PM	0.336	0.336
2:05:04 PM	0.144	0.144
2:06:04 PM	0.091	0.091
2:07:04 PM	0.078	0.078
2:08:04 PM	0.119	0.119
2:09:04 PM	0.086	0.086
2:10:04 PM	0.069	0.069
2:11:04 PM	0.089	0.089
2:12:04 PM	0.076	0.076
2:13:04 PM	0.12	0.12
2:14:04 PM	0.097	0.097
2:15:04 PM	0.069	0.069
2:16:04 PM	0.071	0.071
2:17:04 PM	0.074	0.074
2:18:04 PM	0.104	0.104
2:19:04 PM	0.187	0.187
2:20:04 PM	0.132	0.132
2:21:04 PM	0.089	0.089
2:22:04 PM	0.069	0.069
2:23:04 PM	0.093	0.093
2:24:04 PM	0.107	0.107
2:25:04 PM	0.083	0.083
2:26:04 PM	0.066	0.066
2:27:04 PM	0.082	0.082
2:28:04 PM	0.093	0.093
2:29:04 PM	0.094	0.094
2:30:04 PM	0.256	0.256
2:31:04 PM	0.113	0.113
2:32:04 PM	0.073	0.073
2:33:04 PM	0.063	0.063
2:34:04 PM	0.095	0.095
2:35:04 PM	0.097	0.097
2:36:04 PM	0.08	0.08
2:37:04 PM	0.067	0.067
2:38:04 PM	0.066	0.066
2:39:04 PM	0.154	0.154
2:40:04 PM	0.088	0.088
2:41:04 PM	0.095	0.095
2:42:04 PM	0.098	0.098
2:43:04 PM	0.121	0.121
2:44:04 PM	0.09	0.09
2:45:04 PM	0.088	0.088
2:46:04 PM	0.069	0.069
2:47:04 PM	0.079	0.079
2:48:04 PM	0.094	0.094
2:49:04 PM	0.091	0.091
2:50:04 PM	0.125	0.125
2:51:04 PM	0.069	0.069
2:52:04 PM	0.063	0.063

2:53:04 PM	0.219	0.219
2:54:04 PM	0.116	0.116
2:55:04 PM	0.077	0.077
2:56:04 PM	0.079	0.079
2:57:04 PM	0.171	0.171
2:58:04 PM	0.091	0.091
2:59:04 PM	0.081	0.081
3:00:04 PM	0.092	0.092
3:01:04 PM	0.131	0.131
3:02:04 PM	0.102	0.102
3:03:04 PM	0.076	0.076
3:04:04 PM	0.082	0.082
3:05:04 PM	0.077	0.077
3:06:04 PM	0.087	0.087
3:07:04 PM	0.224	0.224
3:08:04 PM	0.088	0.088
3:09:04 PM	0.068	0.068
3:10:04 PM	0.07	0.07
3:11:04 PM	0.079	0.079
3:12:04 PM	0.074	0.074
3:13:04 PM	0.117	0.117
3:14:04 PM	0.082	0.082

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123207
Firmware Version	2.1
Calibration Date	8/13/2012
Test Name	MANUAL_024
Test Start Time	9:55:45 AM
Test Start Date	4/11/2013
Test Length [D:H:M]	0:02:49
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.036
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.394
Mass TWA [mg/m3]	0.013
Photometric User Cal	1
Flow User Cal	1
Errors	
Number of Samples	24

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
9:55:45 AM	0.394		
9:56:45 AM	0		
9:57:45 AM	0		
9:58:45 AM	0		
9:59:45 AM	0.162		
10:00:45 AM	0.001		
10:01:45 AM	0		
10:02:45 AM	0		
10:03:45 AM	0		
10:04:45 AM	0		
10:05:45 AM	0		
10:06:45 AM	0.003		
10:07:45 AM	0		
10:08:45 AM	0.001		
10:09:45 AM	0		
10:10:45 AM	0.001		
10:11:45 AM	0		
10:12:45 AM	0.296		
10:13:45 AM	0		
10:14:45 AM	0		
10:15:45 AM	0		
10:16:45 AM	0		
10:17:45 AM	0.002		
10:18:45 AM	0		
10:19:45 AM	0		
10:20:45 AM	0		
10:21:45 AM	0		
10:22:45 AM	0		
10:23:45 AM	0		
10:24:45 AM	0		
10:25:45 AM	0		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530104307
Firmware Version	3
Calibration Date	2/27/2013
Test Name	MANUAL_023
Test Start Time	9:53:28 AM
Test Start Date	4/11/2013
Test Length [D:H:M]	0:01:29
Test Interval [M:S]	1:01
Mass Average [mg/m3]	0.041
Mass Minimum [mg/m3]	0.022
Mass Maximum [mg/m3]	0.531
Mass TWA [mg/m3]	0.008
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	88

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors	DIFFERENCE
9:53:28 AM	0.531			-0.531
9:54:28 AM	0.038			-0.038
9:55:28 AM	0.026			0.368
9:56:28 AM	0.022			-0.022
9:57:28 AM	0.023			-0.023
9:58:28 AM	0.026			-0.026
9:59:28 AM	0.032			0.13
10:00:28 AM	0.04			-0.039
10:01:28 AM	0.036			-0.036
10:02:28 AM	0.03			-0.03
10:03:28 AM	0.024			-0.024
10:04:28 AM	0.025			-0.025
10:05:28 AM	0.025			-0.025
10:06:28 AM	0.035			-0.032
10:07:28 AM	0.031			-0.031
10:08:28 AM	0.034			-0.033
10:09:28 AM	0.037			-0.037
10:10:28 AM	0.037			-0.036
10:11:28 AM	0.033			-0.033
10:12:28 AM	0.025			0.271
10:13:28 AM	0.03			-0.03
10:14:28 AM	0.032			-0.032
10:15:28 AM	0.034			-0.034
10:16:28 AM	0.444			-0.444
10:17:28 AM	0.029			-0.027
10:18:28 AM	0.03			-0.03
10:19:28 AM	0.025			-0.025
10:20:28 AM	0.029			-0.029
10:21:28 AM	0.033			-0.033
10:22:28 AM	0.031			-0.031
10:23:28 AM	0.034			-0.034
10:24:28 AM	0.026			-0.026
10:25:28 AM	0.032			-0.032
10:26:28 AM	0.03			-0.03
10:27:28 AM	0.037			-0.037
10:28:28 AM	0.033			-0.033
10:29:28 AM	0.032			-0.032
10:30:28 AM	0.028			-0.028
10:31:28 AM	0.031			-0.031
10:32:28 AM	0.044			-0.044
10:33:28 AM	0.051			-0.051
10:34:28 AM	0.064			-0.064
10:35:28 AM	0.038			-0.038
10:36:28 AM	0.031			-0.031
10:37:28 AM	0.03			-0.03
10:38:28 AM	0.037			-0.037
10:39:28 AM	0.032			-0.032
10:40:28 AM	0.038			-0.038
10:41:28 AM	0.028			-0.028
10:42:28 AM	0.034			-0.034
10:43:28 AM	0.034			-0.034

10:44:28 AM	0.037	-0.037
10:45:28 AM	0.025	-0.025
10:46:28 AM	0.034	-0.034
10:47:28 AM	0.025	-0.025
10:48:28 AM	0.024	-0.024
10:49:28 AM	0.03	-0.03
10:50:28 AM	0.037	-0.037
10:51:28 AM	0.031	-0.031
10:52:28 AM	0.028	-0.028
10:53:28 AM	0.035	-0.035
10:54:28 AM	0.031	-0.031
10:55:28 AM	0.028	-0.028
10:56:28 AM	0.026	-0.026
10:57:28 AM	0.028	-0.028
10:58:28 AM	0.026	-0.026
10:59:28 AM	0.025	-0.025
11:00:28 AM	0.027	-0.027
11:01:28 AM	0.046	-0.046
11:02:28 AM	0.03	-0.03
11:03:28 AM	0.033	-0.033
11:04:28 AM	0.028	-0.028
11:05:28 AM	0.026	-0.026
11:06:28 AM	0.025	-0.025
11:07:28 AM	0.025	-0.025
11:08:28 AM	0.03	-0.03
11:09:28 AM	0.023	-0.023
11:10:28 AM	0.022	-0.022
11:11:28 AM	0.034	-0.034
11:12:28 AM	0.028	-0.028
11:13:28 AM	0.025	-0.025
11:14:28 AM	0.024	-0.024
11:15:28 AM	0.025	-0.025
11:16:28 AM	0.034	-0.034
11:17:28 AM	0.035	-0.035
11:18:28 AM	0.029	-0.029
11:19:28 AM	0.024	-0.024
11:20:28 AM	0.024	-0.024

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113405
Firmware Version	2.8
Calibration Date	12/1/2011
Test Name	MANUAL_005
Test Start Time	2:58:15 PM
Test Start Date	7/21/2012
Test Length [D:H:M]	0:02:19
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.04
PM1 Minimum [mg/m3]	0.006
PM1 Maximum [mg/m3]	0.984
PM1 TWA [mg/m3]	0.012
PM2.5 Average [mg/m3]	0.041
PM2.5 Minimum [mg/m3]	0.006
PM2.5 Maximum [mg/m3]	0.995
PM2.5 TWA [mg/m3]	0.012
PM4 Average [mg/m3]	0.044
PM4 Minimum [mg/m3]	0.006
PM4 Maximum [mg/m3]	1.03
PM4 TWA [mg/m3]	0.013
PM10 Average [mg/m3]	0.066
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	1.46
PM10 TWA [mg/m3]	0.019
TOTAL Average [mg/m3]	0.097
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	2.52
TOTAL TWA [mg/m3]	0.028
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	139

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113407
Firmware Version	2.8
Calibration Date	8/18/2011
Test Name	MANUAL_005
Test Start Time	2:58:15 PM
Test Start Date	7/21/2012
Test Length [D:H:M]	0:02:20
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.003
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.134
PM1 TWA [mg/m3]	0.001
PM2.5 Average [mg/m3]	0.004
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.136
PM2.5 TWA [mg/m3]	0.001
PM4 Average [mg/m3]	0.004
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.143
PM4 TWA [mg/m3]	0.001
PM10 Average [mg/m3]	0.011
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	0.295
PM10 TWA [mg/m3]	0.003
TOTAL Average [mg/m3]	0.077
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	1.84
TOTAL TWA [mg/m3]	0.023
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	140

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]
60	0.984	0.995	1.03	1.46	2.52
120	0.944	0.95	0.97	1.13	1.38
180	0.125	0.128	0.14	0.261	0.477
240	0.068	0.071	0.079	0.141	0.239
300	0.06	0.062	0.069	0.128	0.195
360	0.068	0.071	0.077	0.135	0.227
420	0.092	0.096	0.107	0.186	0.283
480	0.043	0.045	0.049	0.075	0.108
540	0.078	0.08	0.084	0.126	0.204
600	0.02	0.02	0.021	0.033	0.049
660	0.027	0.029	0.032	0.055	0.082
720	0.063	0.065	0.07	0.115	0.197
780	0.027	0.029	0.031	0.045	0.064
840	0.06	0.064	0.069	0.104	0.159
900	0.127	0.131	0.141	0.214	0.338
960	0.029	0.03	0.033	0.051	0.08
1020	0.064	0.065	0.067	0.09	0.127
1080	0.082	0.084	0.09	0.157	0.301
1140	0.025	0.025	0.027	0.042	0.066
1200	0.03	0.03	0.033	0.057	0.098
1260	0.013	0.014	0.014	0.021	0.031
1320	0.015	0.015	0.016	0.025	0.043
1380	0.009	0.009	0.01	0.016	0.024
1440	0.008	0.008	0.009	0.014	0.021
1500	0.03	0.03	0.033	0.06	0.107
1560	0.011	0.011	0.012	0.015	0.022
1620	0.065	0.067	0.071	0.117	0.2
1680	0.019	0.019	0.021	0.03	0.052
1740	0.01	0.01	0.011	0.017	0.025
1800	0.047	0.048	0.053	0.09	0.151
1860	0.038	0.04	0.043	0.056	0.072
1920	0.179	0.185	0.2	0.311	0.483
1980	0.064	0.069	0.078	0.131	0.192
2040	0.103	0.11	0.126	0.218	0.324
2100	0.042	0.046	0.053	0.094	0.133
2160	0.027	0.029	0.032	0.054	0.07
2220	0.025	0.027	0.03	0.05	0.065
2280	0.03	0.032	0.037	0.062	0.084
2340	0.033	0.035	0.039	0.066	0.091
2400	0.025	0.026	0.029	0.048	0.068
2460	0.022	0.023	0.025	0.042	0.059
2520	0.076	0.079	0.09	0.17	0.252
2580	0.03	0.031	0.035	0.06	0.084
2640	0.031	0.032	0.035	0.06	0.078
2700	0.056	0.06	0.069	0.122	0.172
2760	0.045	0.048	0.055	0.101	0.133
2820	0.035	0.037	0.042	0.075	0.105
2880	0.049	0.051	0.058	0.098	0.142
2940	0.039	0.042	0.048	0.085	0.114
3000	0.076	0.078	0.082	0.128	0.215
3060	0.036	0.038	0.042	0.065	0.094
3120	0.027	0.029	0.033	0.051	0.062
3180	0.018	0.02	0.022	0.033	0.038
3240	0.017	0.018	0.021	0.034	0.04
3300	0.014	0.015	0.017	0.026	0.031
3360	0.018	0.019	0.021	0.029	0.035
3420	0.015	0.016	0.017	0.025	0.028
3480	0.018	0.019	0.022	0.032	0.038
3540	0.011	0.011	0.013	0.018	0.021
3600	0.011	0.011	0.012	0.017	0.021
3660	0.012	0.013	0.014	0.018	0.023
3720	0.011	0.011	0.013	0.018	0.024

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]	Difference
60	0.098	0.101	0.116	0.295	1.84	0.68
120	0.134	0.136	0.143	0.244	1.7	-0.32
180	0	0	0.001	0.02	0.381	0.096
240	0.001	0.001	0.001	0.003	0.15	0.089
300	0	0	0	0	0.046	0.149
360	0.035	0.039	0.058	0.229	1.28	-1.053
420	0.001	0.001	0.001	0.001	0.125	0.158
480	0	0	0	0	0.007	0.101
540	0.006	0.006	0.006	0.007	0.16	0.044
600	0.026	0.026	0.026	0.031	0.198	-0.149
660	0.009	0.009	0.009	0.01	0.15	-0.068
720	0	0	0	0	0.053	0.144
780	0	0	0	0	0.049	0.015
840	0.002	0.002	0.004	0.03	0.292	-0.133
900	0.006	0.007	0.007	0.024	0.414	-0.076
960	0	0	0	0	0.03	0.05
1020	0	0	0	0.009	0.252	-0.125
1080	0	0	0	0.007	0.212	0.089
1140	0	0	0	0	0.015	0.051
1200	0	0	0	0	0.014	0.084
1260	0	0	0	0	0	0.031
1320	0	0	0	0	0.047	-0.004
1380	0	0	0	0	0.001	0.023
1440	0	0	0	0	0.01	0.011
1500	0	0	0	0	0.007	0.1
1560	0.003	0.003	0.003	0.004	0.157	-0.135
1620	0	0	0	0	0.015	0.185
1680	0	0	0	0	0.005	0.047
1740	0.003	0.004	0.007	0.051	0.358	-0.333
1800	0	0	0	0	0.074	0.077
1860	0	0	0	0	0.023	0.049
1920	0	0	0	0	0.064	0.419
1980	0.001	0.001	0.001	0.005	0.274	-0.082
2040	0	0	0	0	0.055	0.269
2100	0	0	0	0	0.006	0.127
2160	0	0	0	0	0.002	0.068
2220	0	0	0	0	0.026	0.039
2280	0	0	0	0	0.039	0.045
2340	0	0	0	0	0.014	0.077
2400	0	0	0	0	0.01	0.058
2460	0	0	0	0	0.041	0.018
2520	0	0	0	0	0.073	0.179
2580	0	0	0	0	0.006	0.078
2640	0	0	0	0.007	0.175	-0.097
2700	0	0	0	0	0.067	0.105
2760	0	0	0	0	0.025	0.108
2820	0	0	0	0	0.025	0.08
2880	0	0	0	0	0.039	0.103
2940	0.012	0.013	0.014	0.039	0.364	-0.25
3000	0.002	0.002	0.002	0.012	0.083	0.132
3060	0.013	0.013	0.014	0.04	0.189	-0.095
3120	0	0	0	0	0.001	0.061
3180	0	0	0	0	0.001	0.037
3240	0	0	0	0	0	0.04
3300	0	0	0	0	0	0.031
3360	0	0	0	0.001	0.003	0.032
3420	0	0	0	0	0.006	0.022
3480	0	0	0	0	0	0.038
3540	0	0	0	0	0	0.021
3600	0	0	0	0	0	0.021
3660	0	0	0	0	0.002	0.021
3720	0	0	0	0	0	0.024

3780	0.007	0.007	0.008	0.011	0.011
3840	0.007	0.007	0.008	0.01	0.011
3900	0.006	0.006	0.006	0.008	0.009
3960	0.006	0.007	0.007	0.01	0.011
4020	0.027	0.027	0.029	0.043	0.058
4080	0.022	0.024	0.026	0.045	0.06
4140	0.029	0.031	0.035	0.064	0.093
4200	0.02	0.021	0.024	0.039	0.048
4260	0.01	0.011	0.012	0.017	0.018
4320	0.006	0.007	0.007	0.01	0.01
4380	0.017	0.018	0.019	0.034	0.044
4440	0.018	0.019	0.022	0.037	0.045
4500	0.009	0.009	0.01	0.012	0.013
4560	0.01	0.011	0.012	0.017	0.021
4620	0.011	0.011	0.012	0.02	0.025
4680	0.006	0.006	0.006	0.008	0.009
4740	0.097	0.102	0.119	0.216	0.289
4800	0.017	0.018	0.019	0.032	0.04
4860	0.009	0.01	0.011	0.016	0.02
4920	0.006	0.006	0.006	0.009	0.009
4980	0.01	0.011	0.012	0.021	0.025
5040	0.006	0.006	0.007	0.009	0.01
5100	0.007	0.007	0.007	0.011	0.013
5160	0.008	0.008	0.009	0.012	0.015
5220	0.034	0.035	0.039	0.059	0.074
5280	0.009	0.009	0.01	0.013	0.016
5340	0.007	0.007	0.008	0.009	0.01
5400	0.01	0.01	0.01	0.015	0.021
5460	0.006	0.007	0.007	0.01	0.013
5520	0.01	0.011	0.011	0.018	0.023
5580	0.007	0.008	0.008	0.011	0.012
5640	0.007	0.007	0.007	0.009	0.012
5700	0.019	0.02	0.022	0.036	0.05
5760	0.009	0.009	0.01	0.015	0.017
5820	0.012	0.012	0.014	0.021	0.026
5880	0.01	0.011	0.011	0.014	0.016
5940	0.01	0.01	0.011	0.012	0.014
6000	0.012	0.012	0.012	0.015	0.017
6060	0.011	0.011	0.012	0.013	0.015
6120	0.012	0.012	0.013	0.016	0.02
6180	0.01	0.01	0.011	0.013	0.014
6240	0.01	0.01	0.011	0.014	0.015
6300	0.013	0.014	0.015	0.022	0.025
6360	0.015	0.016	0.018	0.026	0.03
6420	0.039	0.041	0.045	0.081	0.112
6480	0.014	0.015	0.016	0.024	0.029
6540	0.008	0.008	0.009	0.011	0.012
6600	0.012	0.012	0.013	0.019	0.025
6660	0.017	0.018	0.02	0.031	0.042
6720	0.012	0.013	0.013	0.015	0.017
6780	0.017	0.018	0.019	0.03	0.04
6840	0.015	0.015	0.016	0.024	0.029
6900	0.013	0.013	0.014	0.02	0.027
6960	0.025	0.026	0.028	0.045	0.061
7020	0.01	0.011	0.012	0.017	0.022
7080	0.007	0.007	0.007	0.01	0.013
7140	0.006	0.006	0.006	0.008	0.008
7200	0.008	0.009	0.009	0.01	0.012
7260	0.011	0.011	0.011	0.012	0.013
7320	0.012	0.012	0.012	0.013	0.013
7380	0.014	0.014	0.014	0.015	0.017
7440	0.01	0.011	0.011	0.012	0.012
7500	0.01	0.01	0.01	0.011	0.012
7560	0.021	0.022	0.023	0.03	0.035
7620	0.027	0.028	0.031	0.046	0.06
7680	0.017	0.018	0.02	0.025	0.029
7740	0.015	0.016	0.017	0.022	0.023
7800	0.014	0.014	0.015	0.017	0.02
7860	0.019	0.02	0.021	0.026	0.029
7920	0.018	0.02	0.021	0.025	0.028
7980	0.016	0.017	0.018	0.023	0.024
8040	0.021	0.022	0.023	0.028	0.03
8100	0.023	0.024	0.026	0.03	0.032
8160	0.016	0.017	0.018	0.022	0.024
8220	0.009	0.01	0.01	0.014	0.016
8280	0.01	0.01	0.011	0.015	0.019
8340	0.013	0.013	0.014	0.016	0.018

3780	0	0	0	0	0	0.011
3840	0	0	0	0	0	0.011
3900	0	0	0	0	0	0.009
3960	0	0	0	0	0	0.011
4020	0	0	0	0	0.002	0.056
4080	0	0	0	0.002	0.025	0.035
4140	0	0	0	0.003	0.033	0.06
4200	0	0	0	0	0	0.048
4260	0	0	0	0	0	0.018
4320	0	0	0	0	0	0.01
4380	0	0	0	0	0	0.044
4440	0	0	0	0	0	0.045
4500	0	0	0	0.007	0.024	-0.011
4560	0.043	0.047	0.061	0.177	0.326	-0.305
4620	0	0	0	0	0.001	0.024
4680	0.005	0.005	0.005	0.012	0.031	-0.022
4740	0	0	0	0	0	0.289
4800	0	0	0	0	0.001	0.039
4860	0	0	0	0	0	0.02
4920	0	0	0	0	0	0.009
4980	0	0	0	0	0.001	0.024
5040	0	0	0	0	0.007	0.003
5100	0	0	0	0	0	0.013
5160	0.017	0.018	0.023	0.065	0.129	-0.114
5220	0.017	0.019	0.027	0.089	0.148	-0.074
5280	0	0	0	0	0.002	0.014
5340	0	0	0	0	0	0.01
5400	0	0	0	0	0	0.021
5460	0	0	0	0	0.009	0.004
5520	0	0	0	0	0	0.023
5580	0	0	0	0	0.001	0.011
5640	0	0	0.002	0.013	0.023	-0.011
5700	0.005	0.005	0.005	0.017	0.068	-0.018
5760	0	0	0	0	0	0.017
5820	0	0	0	0	0	0.026
5880	0	0	0	0	0	0.016
5940	0	0	0	0	0	0.014
6000	0	0	0	0	0	0.017
6060	0	0	0	0	0	0.015
6120	0	0	0	0	0	0.02
6180	0	0	0	0	0	0.014
6240	0	0	0	0	0	0.015
6300	0	0	0	0	0	0.025
6360	0	0	0	0	0	0.03
6420	0.001	0.001	0.001	0.007	0.065	0.047
6480	0	0	0	0	0.001	0.028
6540	0	0	0	0	0	0.012
6600	0	0	0	0	0	0.025
6660	0	0	0	0	0.001	0.041
6720	0	0	0	0	0	0.017
6780	0	0	0	0	0	0.04
6840	0	0	0	0	0	0.029
6900	0	0	0	0	0	0.027
6960	0	0	0	0	0.002	0.059
7020	0	0	0	0	0	0.022
7080	0	0	0	0	0	0.013
7140	0	0	0	0	0	0.008
7200	0	0	0	0	0	0.012
7260	0	0	0	0	0	0.013
7320	0.002	0.002	0.002	0.002	0.025	-0.012
7380	0.035	0.035	0.036	0.049	0.127	-0.11
7440	0	0	0	0	0	0.012
7500	0	0	0	0	0	0.012
7560	0.001	0.001	0.001	0.005	0.085	-0.05
7620	0	0	0	0	0.001	0.059
7680	0	0	0	0	0.002	0.027
7740	0	0	0	0	0	0.023
7800	0	0	0	0	0	0.02
7860	0	0	0	0	0	0.029
7920	0	0	0	0	0.003	0.025
7980	0	0	0	0	0	0.024
8040	0	0	0	0	0	0.03
8100	0	0	0	0	0	0.032
8160	0	0	0	0.004	0.019	0.005
8220	0	0	0	0	0	0.016
8280	0	0	0	0	0	0.019
8340	0	0	0	0	0	0.018
8400	0	0	0	0	0.005	-0.005

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113405
Firmware Version	2.8
Calibration Date	12/1/2011
Test Name	MANUAL_007
Test Start Time	10:09:31 AM
Test Start Date	7/23/2012
Test Length [D:H:M]	0:05:44
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.033
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.241
PM1 TWA [mg/m3]	0.024
PM2.5 Average [mg/m3]	0.034
PM2.5 Minimum [mg/m3]	0.018
PM2.5 Maximum [mg/m3]	0.253
PM2.5 TWA [mg/m3]	0.024
PM4 Average [mg/m3]	0.035
PM4 Minimum [mg/m3]	0.019
PM4 Maximum [mg/m3]	0.274
PM4 TWA [mg/m3]	0.025
PM10 Average [mg/m3]	0.035
PM10 Minimum [mg/m3]	0.019
PM10 Maximum [mg/m3]	0.303
PM10 TWA [mg/m3]	0.025
TOTAL Average [mg/m3]	0.036
TOTAL Minimum [mg/m3]	0.019
TOTAL Maximum [mg/m3]	0.308
TOTAL TWA [mg/m3]	0.026
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	344

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg/m3]

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113407
Firmware Version	2.8
Calibration Date	8/18/2011
Test Name	MANUAL_007
Test Start Time	8:31:43 AM
Test Start Date	7/22/2012
Test Length [D:H:M]	0:04:06
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.011
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.55
PM1 TWA [mg/m3]	0.006
PM2.5 Average [mg/m3]	0.011
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.57
PM2.5 TWA [mg/m3]	0.006
PM4 Average [mg/m3]	0.013
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.673
PM4 TWA [mg/m3]	0.007
PM10 Average [mg/m3]	0.026
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	1.74
PM10 TWA [mg/m3]	0.014
TOTAL Average [mg/m3]	0.048
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	2.95
TOTAL TWA [mg/m3]	0.024
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	246

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg/m3]	Difference
8:31:43 AM	0.101	0.103	0.107	0.15	0.419	-0.419
8:32:43 AM	0.019	0.02	0.021	0.026	0.045	-0.045
8:33:43 AM	0.028	0.029	0.03	0.038	0.078	-0.078
8:34:43 AM	0.016	0.017	0.017	0.021	0.026	-0.026
8:35:43 AM	0.015	0.015	0.016	0.017	0.018	-0.018
8:36:43 AM	0.015	0.015	0.016	0.018	0.022	-0.022
8:37:43 AM	0.026	0.027	0.029	0.043	0.082	-0.082
8:38:43 AM	0.04	0.041	0.044	0.07	0.242	-0.242
8:39:43 AM	0.022	0.023	0.024	0.037	0.083	-0.083
8:40:43 AM	0.017	0.017	0.018	0.019	0.02	-0.02
8:41:43 AM	0.017	0.018	0.018	0.019	0.019	-0.019
8:42:43 AM	0.019	0.019	0.02	0.022	0.028	-0.028
8:43:43 AM	0.019	0.019	0.02	0.021	0.032	-0.032
8:44:43 AM	0.017	0.017	0.018	0.018	0.018	-0.018
8:45:43 AM	0.016	0.017	0.017	0.018	0.021	-0.021
8:46:43 AM	0.015	0.016	0.016	0.018	0.026	-0.026
8:47:43 AM	0.015	0.015	0.016	0.019	0.023	-0.023
8:48:43 AM	0.015	0.015	0.016	0.017	0.023	-0.023
8:49:43 AM	0.015	0.015	0.016	0.017	0.027	-0.027
8:50:43 AM	0.015	0.015	0.016	0.017	0.017	-0.017
8:51:43 AM	0.016	0.016	0.016	0.017	0.019	-0.019
8:52:43 AM	0.015	0.016	0.016	0.017	0.021	-0.021
8:53:43 AM	0.014	0.015	0.015	0.016	0.016	-0.016
8:54:43 AM	0.015	0.015	0.016	0.016	0.017	-0.017
8:55:43 AM	0.014	0.014	0.015	0.016	0.016	-0.016
8:56:43 AM	0.012	0.012	0.013	0.013	0.013	-0.013
8:57:43 AM	0.013	0.013	0.014	0.015	0.015	-0.015
8:58:43 AM	0.02	0.02	0.021	0.023	0.024	-0.024
8:59:43 AM	0.016	0.016	0.017	0.017	0.021	-0.021
9:00:43 AM	0.016	0.016	0.016	0.019	0.034	-0.034
9:01:43 AM	0.014	0.015	0.015	0.016	0.02	-0.02
9:02:43 AM	0.014	0.014	0.014	0.018	0.021	-0.021
9:03:43 AM	0.014	0.015	0.016	0.019	0.031	-0.031
9:04:43 AM	0.013	0.013	0.014	0.017	0.03	-0.03
9:05:43 AM	0.011	0.011	0.011	0.014	0.02	-0.02
9:06:43 AM	0.01	0.01	0.011	0.013	0.013	-0.013
9:07:43 AM	0.011	0.011	0.011	0.012	0.019	-0.019
9:08:43 AM	0.009	0.01	0.01	0.013	0.016	-0.016
9:09:43 AM	0.012	0.013	0.014	0.022	0.048	-0.048
9:10:43 AM	0.083	0.085	0.091	0.123	0.185	-0.185
9:11:43 AM	0.044	0.045	0.05	0.083	0.116	-0.116
9:12:43 AM	0.112	0.116	0.135	0.271	0.452	-0.452
9:13:43 AM	0.013	0.013	0.014	0.022	0.048	-0.048
9:14:43 AM	0.009	0.009	0.01	0.016	0.024	-0.024
9:15:43 AM	0.01	0.01	0.011	0.017	0.037	-0.037
9:16:43 AM	0.006	0.006	0.007	0.009	0.012	-0.012
9:17:43 AM	0.044	0.046	0.052	0.093	0.146	-0.146
9:18:43 AM	0.018	0.019	0.022	0.047	0.071	-0.071
9:19:43 AM	0.004	0.005	0.005	0.007	0.009	-0.009
9:20:43 AM	0.072	0.076	0.092	0.194	0.352	-0.352
9:21:43 AM	0.005	0.006	0.006	0.007	0.008	-0.008
9:22:43 AM	0.002	0.002	0.003	0.004	0.009	-0.009
9:23:43 AM	0.003	0.003	0.004	0.008	0.015	-0.015
9:24:43 AM	0.004	0.004	0.005	0.01	0.013	-0.013
9:25:43 AM	0.006	0.006	0.006	0.008	0.009	-0.009
9:26:43 AM	0.002	0.003	0.003	0.004	0.005	-0.005
9:27:43 AM	0.003	0.003	0.003	0.004	0.005	-0.005
9:28:43 AM	0.01	0.011	0.012	0.018	0.033	-0.033
9:29:43 AM	0.018	0.019	0.022	0.047	0.107	-0.107
9:30:43 AM	0.003	0.003	0.004	0.005	0.006	-0.006
9:31:43 AM	0.035	0.038	0.045	0.096	0.187	-0.187
9:32:43 AM	0.153	0.163	0.202	0.478	0.745	-0.745
9:33:43 AM	0.003	0.004	0.004	0.007	0.021	-0.021
9:34:43 AM	0.002	0.002	0.002	0.005	0.006	-0.006
9:35:43 AM	0.103	0.109	0.13	0.276	0.451	-0.451
9:36:43 AM	0.059	0.063	0.08	0.188	0.307	-0.307
9:37:43 AM	0.003	0.003	0.004	0.006	0.01	-0.01
9:38:43 AM	0.005	0.006	0.007	0.014	0.023	-0.023
9:39:43 AM	0.002	0.003	0.003	0.005	0.008	-0.008
9:40:43 AM	0.001	0.001	0.001	0.002	0.004	-0.004

10:09:31 AM	0.092	0.093	0.096	0.104	0.111
10:10:31 AM	0.104	0.106	0.11	0.115	0.117
10:11:31 AM	0.137	0.14	0.146	0.156	0.162
10:12:31 AM	0.137	0.14	0.145	0.156	0.16
10:13:31 AM	0.112	0.115	0.121	0.129	0.132
10:14:31 AM	0.054	0.055	0.057	0.059	0.061
10:15:31 AM	0.036	0.036	0.037	0.038	0.039
10:16:31 AM	0.042	0.043	0.044	0.046	0.047
10:17:31 AM	0.039	0.04	0.041	0.043	0.043
10:18:31 AM	0.053	0.054	0.056	0.058	0.059
10:19:31 AM	0.06	0.061	0.064	0.067	0.069
10:20:31 AM	0.037	0.038	0.039	0.04	0.04
10:21:31 AM	0.04	0.04	0.041	0.043	0.044
10:22:31 AM	0.081	0.083	0.088	0.092	0.093
10:23:31 AM	0.154	0.16	0.169	0.18	0.182
10:24:31 AM	0.109	0.113	0.119	0.126	0.127
10:25:31 AM	0.073	0.075	0.079	0.085	0.085
10:26:31 AM	0.034	0.034	0.035	0.036	0.037
10:27:31 AM	0.036	0.037	0.038	0.039	0.039
10:28:31 AM	0.025	0.025	0.025	0.026	0.026
10:29:31 AM	0.033	0.034	0.035	0.036	0.036
10:30:31 AM	0.093	0.097	0.103	0.108	0.109
10:31:31 AM	0.04	0.041	0.042	0.044	0.045
10:32:31 AM	0.087	0.089	0.091	0.095	0.096
10:33:31 AM	0.087	0.09	0.095	0.101	0.101
10:34:31 AM	0.045	0.046	0.048	0.05	0.05
10:35:31 AM	0.056	0.058	0.061	0.064	0.064
10:36:31 AM	0.04	0.041	0.042	0.044	0.045
10:37:31 AM	0.091	0.094	0.1	0.108	0.109
10:38:31 AM	0.04	0.041	0.043	0.044	0.044
10:39:31 AM	0.028	0.028	0.029	0.03	0.03
10:40:31 AM	0.029	0.03	0.03	0.031	0.031
10:41:31 AM	0.043	0.044	0.045	0.047	0.047
10:42:31 AM	0.034	0.034	0.035	0.036	0.037
10:43:31 AM	0.04	0.041	0.042	0.044	0.045
10:44:31 AM	0.058	0.06	0.063	0.068	0.068
10:45:31 AM	0.031	0.031	0.032	0.033	0.034
10:46:31 AM	0.031	0.031	0.032	0.033	0.033
10:47:31 AM	0.027	0.027	0.028	0.028	0.028
10:48:31 AM	0.022	0.022	0.022	0.022	0.023
10:49:31 AM	0.022	0.022	0.022	0.022	0.023
10:50:31 AM	0.087	0.09	0.095	0.102	0.103
10:51:31 AM	0.024	0.024	0.024	0.025	0.025
10:52:31 AM	0.023	0.024	0.024	0.024	0.024
10:53:31 AM	0.026	0.026	0.026	0.027	0.027
10:54:31 AM	0.028	0.029	0.029	0.03	0.03
10:55:31 AM	0.041	0.041	0.042	0.044	0.044
10:56:31 AM	0.031	0.032	0.032	0.034	0.034
10:57:31 AM	0.04	0.041	0.042	0.043	0.043
10:58:31 AM	0.029	0.03	0.03	0.03	0.03
10:59:31 AM	0.024	0.024	0.024	0.025	0.025
11:00:31 AM	0.023	0.023	0.024	0.024	0.024
11:01:31 AM	0.023	0.023	0.023	0.024	0.024
11:02:31 AM	0.023	0.023	0.024	0.024	0.024
11:03:31 AM	0.027	0.028	0.028	0.029	0.029
11:04:31 AM	0.049	0.051	0.054	0.056	0.057
11:05:31 AM	0.025	0.025	0.025	0.026	0.026
11:06:31 AM	0.028	0.028	0.028	0.028	0.028
11:07:31 AM	0.025	0.025	0.025	0.026	0.026
11:08:31 AM	0.024	0.025	0.025	0.025	0.025
11:09:31 AM	0.028	0.028	0.028	0.029	0.029
11:10:31 AM	0.026	0.026	0.026	0.026	0.026
11:11:31 AM	0.027	0.027	0.028	0.028	0.028
11:12:31 AM	0.029	0.029	0.029	0.03	0.03
11:13:31 AM	0.027	0.027	0.027	0.027	0.027
11:14:31 AM	0.026	0.026	0.026	0.026	0.026
11:15:31 AM	0.025	0.025	0.025	0.025	0.025
11:16:31 AM	0.024	0.024	0.025	0.025	0.025
11:17:31 AM	0.026	0.026	0.026	0.026	0.027
11:18:31 AM	0.027	0.027	0.027	0.028	0.028
11:19:31 AM	0.025	0.026	0.026	0.026	0.026
11:20:31 AM	0.028	0.028	0.029	0.029	0.029
11:21:31 AM	0.027	0.027	0.027	0.028	0.028
11:22:31 AM	0.025	0.025	0.026	0.026	0.026
11:23:31 AM	0.028	0.029	0.029	0.029	0.032
11:24:31 AM	0.029	0.03	0.03	0.03	0.03
11:25:31 AM	0.047	0.048	0.049	0.051	0.051
11:26:31 AM	0.042	0.043	0.044	0.045	0.046
11:27:31 AM	0.03	0.031	0.031	0.032	0.032
11:28:31 AM	0.041	0.042	0.043	0.045	0.046
11:29:31 AM	0.036	0.037	0.037	0.038	0.039
11:30:31 AM	0.031	0.032	0.032	0.033	0.033
11:31:31 AM	0.041	0.042	0.043	0.044	0.044
11:32:31 AM	0.034	0.035	0.036	0.036	0.037
11:33:31 AM	0.028	0.028	0.029	0.029	0.029
11:34:31 AM	0.029	0.029	0.03	0.03	0.03
11:35:31 AM	0.052	0.054	0.056	0.059	0.059

9:41:43 AM	0.002	0.003	0.003	0.004	0.004
9:42:43 AM	0.015	0.015	0.017	0.028	0.117
9:43:43 AM	0.002	0.003	0.003	0.007	0.019
9:44:43 AM	0.004	0.004	0.005	0.009	0.023
9:45:43 AM	0.004	0.005	0.006	0.015	0.027
9:46:43 AM	0.005	0.005	0.007	0.023	0.049
9:47:43 AM	0.001	0.002	0.002	0.005	0.008
9:48:43 AM	0.001	0.001	0.002	0.003	0.004
9:49:43 AM	0.002	0.002	0.003	0.003	0.012
9:50:43 AM	0.003	0.003	0.004	0.012	0.016
9:51:43 AM	0.001	0.001	0.001	0.002	0.004
9:52:43 AM	0.002	0.002	0.002	0.003	0.003
9:53:43 AM	0	0	0	0.001	0.002
9:54:43 AM	0.001	0.002	0.002	0.005	0.012
9:55:43 AM	0	0	0	0.001	0.014
9:56:43 AM	0.005	0.005	0.007	0.02	0.026
9:57:43 AM	0	0	0.001	0.003	0.005
9:58:43 AM	0	0	0	0	0.001
9:59:43 AM	0	0	0.001	0.002	0.008
10:00:43 AM	0	0	0	0	0.003
10:01:43 AM	0	0	0	0	0
10:02:43 AM	0.176	0.186	0.219	0.406	0.611
10:03:43 AM	0.003	0.003	0.004	0.009	0.016
10:04:43 AM	0	0	0	0.001	0.002
10:05:43 AM	0	0	0	0.001	0.002
10:06:43 AM	0	0	0	0	0.001
10:07:43 AM	0.003	0.003	0.003	0.007	0.01
10:08:43 AM	0.041	0.045	0.059	0.136	0.206
10:09:43 AM	0.001	0.001	0.001	0.004	0.007
10:10:43 AM	0	0	0	0.001	0.008
10:11:43 AM	0	0	0	0	0.002
10:12:43 AM	0	0	0	0	0.008
10:13:43 AM	0	0	0	0	0
10:14:43 AM	0	0	0	0	0.001
10:15:43 AM	0	0	0	0	0
10:16:43 AM	0	0	0	0	0.003
10:17:43 AM	0.022	0.022	0.023	0.03	0.084
10:18:43 AM	0.014	0.014	0.015	0.026	0.064
10:19:43 AM	0	0	0	0.002	0.009
10:20:43 AM	0	0	0	0	0.003
10:21:43 AM	0	0	0	0	0.002
10:22:43 AM	0	0	0	0	0
10:23:43 AM	0	0	0	0	0
10:24:43 AM	0	0	0	0	0
10:25:43 AM	0	0	0	0.001	0.003
10:26:43 AM	0.003	0.004	0.005	0.014	0.045
10:27:43 AM	0	0	0	0	0.002
10:28:43 AM	0	0	0	0	0.002
10:29:43 AM	0	0	0	0	0
10:30:43 AM	0	0	0	0	0
10:31:43 AM	0	0	0	0	0.004
10:32:43 AM	0	0	0	0	0.006
10:33:43 AM	0	0	0	0.002	0.006
10:34:43 AM	0	0	0	0	0.004
10:35:43 AM	0	0	0	0	0
10:36:43 AM	0.01	0.011	0.012	0.021	0.032
10:37:43 AM	0.02	0.023	0.032	0.099	0.181
10:38:43 AM	0	0	0	0	0.003
10:39:43 AM	0	0	0	0	0.006
10:40:43 AM	0	0	0	0	0.002
10:41:43 AM	0.001	0.001	0.001	0.003	0.013
10:42:43 AM	0	0	0	0	0.001
10:43:43 AM	0	0	0	0	0.001
10:44:43 AM	0	0	0	0	0.001
10:45:43 AM	0	0	0	0	0
10:46:43 AM	0	0	0	0	0.002
10:47:43 AM	0	0	0	0.001	0.008
10:48:43 AM	0	0	0	0	0.004
10:49:43 AM	0	0	0	0.001	0.004
10:50:43 AM	0	0	0	0	0.004
10:51:43 AM	0	0	0	0	0.002
10:52:43 AM	0.028	0.029	0.033	0.063	0.147
10:53:43 AM	0	0	0	0.001	0.005
10:54:43 AM	0	0	0	0	0.002
10:55:43 AM	0	0	0	0	0
10:56:43 AM	0	0	0	0	0
10:57:43 AM	0	0	0	0	0.002
10:58:43 AM	0	0	0	0	0
10:59:43 AM	0	0	0	0	0
11:00:43 AM	0	0	0	0	0
11:01:43 AM	0	0	0	0	0.003
11:02:43 AM	0	0	0	0	0.003
11:03:43 AM	0	0	0	0	0
11:04:43 AM	0	0	0	0	0.001
11:05:43 AM	0	0	0	0	0
11:06:43 AM	0	0	0	0	0.001
11:07:43 AM	0.014	0.014	0.014	0.022	0.031
11:08:43 AM	0	0	0.001	0.003	0.034
11:09:43 AM	0	0	0	0	0.001
11:10:43 AM	0	0	0	0	0
11:11:43 AM	0	0	0	0	0.001
11:12:43 AM	0	0	0	0	0.013
11:13:43 AM	0	0	0	0	0.001
11:14:43 AM	0	0	0	0	0
11:15:43 AM	0	0	0	0	0
11:16:43 AM	0.55	0.57	0.673	1.74	2.95
11:17:43 AM	0.011	0.013	0.021	0.091	0.195
11:18:43 AM	0	0	0	0.001	0.007
11:19:43 AM	0	0	0	0.004	0.014
11:20:43 AM	0	0	0	0	0
11:21:43 AM	0	0	0	0	0.005
11:22:43 AM	0.01	0.011	0.015	0.052	0.112
11:23:43 AM	0	0	0	0	0.001
11:24:43 AM	0	0	0	0	0.002
11:25:43 AM	0	0	0	0	0.004
11:26:43 AM	0.004	0.004	0.004	0.006	0.014
11:27:43 AM	0.011	0.011	0.013	0.029	0.105

-0.004
-0.117
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-0.009
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0.027
0.026
0.032
-2.92
-0.144
0.039
0.018
0.046
0.034
-0.079
0.043
0.035
0.025
0.016
-0.046

11:36:31 AM	0.073	0.075	0.077	0.079	0.08		11:28:43 AM	0.053	0.057	0.07	0.198	0.383	-0.303
11:37:31 AM	0.045	0.046	0.048	0.05	0.05		11:29:43 AM	0	0	0	0	0.001	0.049
11:38:31 AM	0.042	0.043	0.044	0.045	0.045		11:30:43 AM	0.001	0.001	0.002	0.012	0.036	0.009
11:39:31 AM	0.048	0.05	0.051	0.053	0.053		11:31:43 AM	0	0	0	0	0.001	0.052
11:40:31 AM	0.093	0.097	0.101	0.106	0.106		11:32:43 AM	0.087	0.091	0.111	0.289	0.556	-0.45
11:41:31 AM	0.053	0.055	0.056	0.058	0.058		11:33:43 AM	0	0	0	0	0.002	0.056
11:42:31 AM	0.044	0.045	0.046	0.047	0.047		11:34:43 AM	0	0	0	0.001	0.017	0.03
11:43:31 AM	0.047	0.048	0.05	0.051	0.051		11:35:43 AM	0	0	0	0	0.002	0.049
11:44:31 AM	0.055	0.057	0.059	0.061	0.061		11:36:43 AM	0	0	0	0	0.002	0.059
11:45:31 AM	0.112	0.117	0.123	0.129	0.13		11:37:43 AM	0	0	0	0	0.002	0.128
11:46:31 AM	0.037	0.038	0.038	0.039	0.04		11:38:43 AM	0	0	0	0.002	0.013	0.027
11:47:31 AM	0.055	0.057	0.059	0.061	0.061		11:39:43 AM	0	0	0	0	0.003	0.058
11:48:31 AM	0.075	0.078	0.082	0.085	0.085		11:40:43 AM	0	0	0	0	0	0.085
11:49:31 AM	0.044	0.046	0.047	0.049	0.049		11:41:43 AM	0	0	0	0	0.001	0.048
11:50:31 AM	0.029	0.03	0.03	0.03	0.03		11:42:43 AM	0	0	0	0	0	0.03
11:51:31 AM	0.215	0.221	0.233	0.251	0.257		11:43:43 AM	0	0	0	0	0.003	0.254
11:52:31 AM	0.241	0.253	0.274	0.303	0.308		11:44:43 AM	0	0	0	0	0.001	0.307
11:53:31 AM	0.04	0.041	0.042	0.044	0.044		11:45:43 AM	0	0	0	0	0	0.044
11:54:31 AM	0.031	0.031	0.032	0.032	0.032		11:46:43 AM	0	0	0	0.002	0.003	0.029
11:55:31 AM	0.03	0.031	0.031	0.031	0.031		11:47:43 AM	0	0	0	0.001	0.009	0.022
11:56:31 AM	0.032	0.033	0.033	0.033	0.033		11:48:43 AM	0	0	0	0.006	0.031	0.002
11:57:31 AM	0.034	0.035	0.035	0.036	0.036		11:49:43 AM	0	0	0	0	0.001	0.035
11:58:31 AM	0.032	0.032	0.032	0.033	0.033		11:50:43 AM	0	0	0	0	0	0.033
11:59:31 AM	0.034	0.034	0.035	0.035	0.035		11:51:43 AM	0	0	0	0	0	0.035
12:00:31 PM	0.033	0.033	0.033	0.033	0.033		11:52:43 AM	0	0	0	0	0	0.033
12:01:31 PM	0.033	0.033	0.033	0.033	0.033		11:53:43 AM	0	0	0	0	0	0.033
12:02:31 PM	0.05	0.051	0.053	0.053	0.053		11:54:43 AM	0	0	0	0	0	0.053
12:03:31 PM	0.031	0.031	0.031	0.032	0.032		11:55:43 AM	0	0	0	0	0	0.032
12:04:31 PM	0.028	0.028	0.028	0.028	0.028		11:56:43 AM	0	0	0	0	0	0.028
12:05:31 PM	0.028	0.028	0.029	0.029	0.029		11:57:43 AM	0	0	0	0	0	0.029
12:06:31 PM	0.028	0.028	0.028	0.028	0.028		11:58:43 AM	0	0	0	0	0	0.028
12:07:31 PM	0.029	0.029	0.029	0.029	0.029		11:59:43 AM	0.001	0.001	0.001	0.001	0.006	0.023
12:08:31 PM	0.03	0.03	0.03	0.031	0.031		12:00:43 PM	0	0	0	0	0	0.031
12:09:31 PM	0.029	0.029	0.03	0.03	0.03		12:01:43 PM	0	0	0	0	0	0.03
12:10:31 PM	0.03	0.03	0.031	0.031	0.031		12:02:43 PM	0	0	0	0	0.003	0.028
12:11:31 PM	0.031	0.031	0.031	0.031	0.031		12:03:43 PM	0	0	0	0	0.001	0.03
12:12:31 PM	0.029	0.029	0.029	0.029	0.029		12:04:43 PM	0	0	0	0	0	0.029
12:13:31 PM	0.03	0.031	0.031	0.031	0.031		12:05:43 PM	0	0	0	0	0	0.031
12:14:31 PM	0.031	0.032	0.032	0.032	0.032		12:06:43 PM	0	0	0	0	0	0.032
12:15:31 PM	0.033	0.033	0.034	0.034	0.034		12:07:43 PM	0	0	0	0	0	0.034
12:16:31 PM	0.032	0.032	0.033	0.033	0.033		12:08:43 PM	0	0	0	0	0	0.033
12:17:31 PM	0.032	0.033	0.033	0.033	0.033		12:09:43 PM	0	0	0	0	0.001	0.032
12:18:31 PM	0.037	0.038	0.038	0.039	0.039		12:10:43 PM	0	0	0	0	0	0.039
12:19:31 PM	0.034	0.035	0.035	0.036	0.036		12:11:43 PM	0	0	0	0	0	0.036
12:20:31 PM	0.033	0.033	0.034	0.034	0.034		12:12:43 PM	0	0	0	0	0	0.034
12:21:31 PM	0.034	0.034	0.034	0.035	0.035		12:13:43 PM	0	0	0	0	0.001	0.034
12:22:31 PM	0.034	0.034	0.035	0.035	0.035		12:14:43 PM	0	0	0	0	0	0.035
12:23:31 PM	0.03	0.03	0.031	0.031	0.031		12:15:43 PM	0	0	0	0	0.002	0.029
12:24:31 PM	0.029	0.029	0.03	0.03	0.03		12:16:43 PM	0	0	0	0	0	0.03
12:25:31 PM	0.029	0.029	0.029	0.029	0.029		12:17:43 PM	0.011	0.012	0.014	0.036	0.094	-0.065
12:26:31 PM	0.028	0.029	0.029	0.029	0.029		12:18:43 PM	0	0	0	0	0	0.029
12:27:31 PM	0.04	0.041	0.042	0.043	0.043		12:19:43 PM	0	0	0	0	0	0.043
12:28:31 PM	0.028	0.029	0.029	0.029	0.029		12:20:43 PM	0	0	0	0	0	0.029
12:29:31 PM	0.031	0.031	0.031	0.032	0.032		12:21:43 PM	0	0	0	0	0	0.032
12:30:31 PM	0.027	0.027	0.028	0.028	0.028		12:22:43 PM	0	0	0	0	0.002	0.026
12:31:31 PM	0.031	0.031	0.031	0.031	0.032		12:23:43 PM	0	0	0	0	0	0.032
12:32:31 PM	0.031	0.031	0.031	0.031	0.031		12:24:43 PM	0	0	0	0.005	0.017	0.014
12:33:31 PM	0.034	0.034	0.034	0.035	0.035		12:25:43 PM	0	0	0	0	0.003	0.032
12:34:31 PM	0.046	0.047	0.048	0.048	0.048		12:26:43 PM	0	0	0	0	0	0.048
12:35:31 PM	0.033	0.034	0.035	0.035	0.035		12:27:43 PM	0	0	0	0.001	0.006	0.029
12:36:31 PM	0.027	0.027	0.027	0.028	0.028		12:28:43 PM	0	0	0	0	0.001	0.027
12:37:31 PM	0.025	0.025	0.025	0.025	0.025		12:29:43 PM	0.001	0.001	0.001	0.014	0.036	-0.011
12:38:31 PM	0.026	0.026	0.026	0.026	0.026		12:30:43 PM	0	0	0	0	0.009	0.017
12:39:31 PM	0.024	0.024	0.025	0.025	0.025		12:31:43 PM	0	0	0	0	0	0.025
12:40:31 PM	0.022	0.022	0.022	0.022	0.022		12:32:43 PM	0	0	0	0	0.002	0.02
12:41:31 PM	0.022	0.022	0.022	0.023	0.023		12:33:43 PM	0	0	0	0	0	0.023
12:42:31 PM	0.022	0.022	0.022	0.022	0.022		12:34:43 PM	0	0	0	0	0.005	0.017
12:43:31 PM	0.022	0.022	0.022	0.023	0.023		12:35:43 PM	0	0	0	0	0.001	0.022
12:44:31 PM	0.023	0.023	0.023	0.023	0.023		12:36:43 PM	0	0	0	0	0	0.023
12:45:31 PM	0.022	0.022	0.022	0.022	0.022		12:37:43 PM	0.169	0.17	0.174	0.204	0.481	-0.459
12:46:31 PM	0.021	0.021	0.021	0.021	0.021		12:38:43 PM	0.077	0.078	0.082	0.109	0.345	-0.324
12:47:31 PM	0.023	0.023	0.023	0.023	0.023		12:39:43 PM	0.065	0.066	0.069	0.093	0.257	-0.234
12:48:31 PM	0.022	0.023	0.023	0.023	0.023		12:40:43 PM	0.051	0.052	0.056	0.078	0.273	-0.25
12:49:31 PM	0.022	0.022	0.022	0.022	0.022		12:41:43 PM	0.056	0.058	0.063	0.103	0.313	-0.291
12:50:31 PM	0.024	0.024	0.024	0.025	0.025		12:42:43 PM	0.046	0.047	0.049	0.069	0.223	-0.198
12:51:31 PM	0.022	0.023	0.023	0.023	0.023		12:43:43 PM	0.035	0.036	0.038	0.052	0.189	-0.166
12:52:31 PM	0.023	0.023	0.023	0.023	0.023		12:44:43 PM	0.767	0.769	0.774	0.829	2.09	-2.067
12:53:31 PM	0.022	0.022	0.023	0.023	0.023		12:45:43 PM	1.1	1.1	1.1	1.12	1.59	-1.567
12:54:31 PM	0.021	0.021	0.021	0.022	0.022		12:46:43 PM	0.194	0.195	0.196	0.205	0.275	-0.253
12:55:31 PM	0.02	0.02	0.02	0.02	0.02		12:47:43 PM	0.103	0.104	0.106	0.121	0.248	-0.228
12:56:31 PM	0.021	0.021	0.021	0.022	0.022		12:48:43 PM	0.109	0.11	0.112	0.121	0.159	-0.137
12:57:31 PM	0.022	0.022	0.022	0.022	0.022		12:49:43 PM	0.111	0.111	0.113	0.123	0.171	-0.149
12:58:31 PM	0.021	0.021	0.021	0.021	0.021		12:50:43 PM	0.17	0.173	0.182	0.25	0.672	-0.651
12:59:31 PM	0.02	0.021	0.021	0.021	0.021		12:51:43 PM	0	0	0	0	0	0.021
1:00:31 PM	0.022	0.023	0.023	0.023	0.023		12:52:43 PM	0.296	0.296	0.296	0.296	0.296	-0.273
1:01:31 PM	0.022	0.022	0.022	0.022	0.022		12:53:43 PM	0.155	0.155	0.155	0.155	0.155	-0.133
1:02:31 PM	0.021	0.021	0.021	0.021	0.021		12:54:43 PM	0.142	0.142	0.142	0.142	0.142	-0.121
1:03:31 PM	0.021	0.022	0.022	0.022	0.022		12:55:43 PM	0.095	0.095	0.095	0.095	0.095	-0.073
1:04:31 PM	0.023	0.023	0.024	0.024	0.024		12:56:43 PM	0.298	0.299	0.301	0.331	0.571	-0.547
1:05:31 PM	0.027	0.028	0.028	0.028	0.028		12:57:43 PM	0.092	0.093	0.096	0.131	0.497	-0.469
1:06:31 PM	0.022	0.022	0.022	0.022	0.022		12:58:43 PM	0.036	0.037	0.04	0.06	0.14	-0.118
1:07:31 PM	0.026	0.026	0.027	0.027	0.027		12:59:43 PM	0.027	0.027	0.029	0.039	0.118	-0.091
1:08:31 PM	0.022	0.022	0.023	0.023	0.023		1:00:43 PM	0.025	0.026	0.028	0.04	0.075	-0.052
1:09:31 PM	0.021	0.021	0.021	0.021	0.021		1:01:43 PM	0.028	0.029	0.032	0.048	0.074	-0.053
1:10:31 PM	0.022	0.023	0.023	0.023	0.023		1:02:43 PM	0.022	0.023	0.024	0.031	0.047	-0.024
1:11:31 PM	0.027	0.027	0.027	0.027	0.027		1:03:43 PM	0.021	0.022	0.022	0.026	0.038	-0.011
1:12:31 PM	0.022	0.023	0.023	0.023	0.023		1:04:43 PM	0.022	0.022	0.023	0.027	0.044	-0.021
1:13:31 PM	0.024	0.024	0.025	0.025	0.025		1:05:43 PM	0.024	0.024	0.025	0.031	0.039	-0.014
1:14:31 PM	0.023	0.023	0.023	0.024	0.024		1:06:43 PM	0.059	0.064	0.076	0.126	0.171	-0.147
1:15:31 PM	0.022	0.022	0.022	0.023	0.023		1:07:43 PM	0.187	0.204	0.249	0.462	0.697	-0.674
1:16:31 PM	0.023	0.023	0.023	0.024	0.024		1:08:43 PM	0.209	0.227	0.275	0.544	0.831	-0.807
1:17:31 PM	0.024	0.024	0.024	0.024	0.024		1:09:43 PM	0.001	0.001	0.001	0.003	0.007	0.017
1:18:31 PM	0.026	0.026	0.026	0.026	0.026		1:10:43 PM	0.011	0.011	0.012	0.014	0.021	0.005
1:19:31 PM	0.027	0.027	0.028	0.028	0.028		1:11:43 PM	0.125	0.135	0.161	0.267	0.344	-0.316
1:20:31 PM	0.029	0.029	0.029	0.03	0.03		1:12:43 PM	0.261	0.286	0.349	0.618	0.833	-0.803
1:21:31 PM	0.032	0.032	0.032	0.033	0.033		1:13:43 PM	0.154	0.164	0.19	0.284	0.351	-0.318
1:22:31 PM	0.03	0.031	0.031	0.031	0.031		1:14:43 PM	0.136	0.141	0.151	0.188	0.214	-0.183

1:23:31 PM	0.025	0.025	0.026	0.026	0.026	1:15:43 PM	0.133	0.137	0.147	0.186	0.23	-0.204
1:24:31 PM	0.033	0.034	0.034	0.034	0.034	1:16:43 PM	0.089	0.09	0.091	0.095	0.105	-0.071
1:25:31 PM	0.035	0.035	0.035	0.035	0.035	1:17:43 PM	0.089	0.09	0.09	0.093	0.098	-0.063
1:26:31 PM	0.033	0.034	0.034	0.034	0.034	1:18:43 PM	0.082	0.082	0.083	0.089	0.1	-0.066
1:27:31 PM	0.037	0.037	0.037	0.037	0.037	1:19:43 PM	0.085	0.085	0.088	0.098	0.114	-0.077
1:28:31 PM	0.032	0.033	0.033	0.033	0.033	1:20:43 PM	0.08	0.08	0.081	0.085	0.089	-0.056
1:29:31 PM	0.031	0.031	0.031	0.032	0.032	1:21:43 PM	0.08	0.081	0.082	0.086	0.103	-0.071
1:30:31 PM	0.032	0.032	0.033	0.033	0.033	1:22:43 PM	0.08	0.08	0.081	0.085	0.101	-0.068
1:31:31 PM	0.03	0.03	0.03	0.03	0.03	1:23:43 PM	0.078	0.078	0.079	0.086	0.101	-0.071
1:32:31 PM	0.029	0.03	0.03	0.03	0.03	1:24:43 PM	0.076	0.076	0.077	0.083	0.096	-0.066
1:33:31 PM	0.024	0.025	0.025	0.025	0.025	1:25:43 PM	0.071	0.071	0.072	0.077	0.085	-0.06
1:34:31 PM	0.024	0.024	0.024	0.024	0.024	1:26:43 PM	0.074	0.074	0.076	0.081	0.091	-0.067
1:35:31 PM	0.024	0.025	0.025	0.025	0.025	1:27:43 PM	0.075	0.075	0.076	0.08	0.085	-0.06
1:36:31 PM	0.023	0.023	0.024	0.024	0.024	1:28:43 PM	0.073	0.073	0.074	0.076	0.079	-0.055
1:37:31 PM	0.023	0.024	0.024	0.024	0.024	1:29:43 PM	0.075	0.076	0.077	0.08	0.085	-0.061
1:38:31 PM	0.021	0.021	0.021	0.021	0.021	1:30:43 PM	0.077	0.077	0.078	0.082	0.09	-0.069
1:39:31 PM	0.02	0.02	0.02	0.02	0.02	1:31:43 PM	0.077	0.077	0.078	0.083	0.094	-0.074
1:40:31 PM	0.021	0.021	0.021	0.021	0.021	1:32:43 PM	0.076	0.076	0.077	0.079	0.085	-0.064
1:41:31 PM	0.02	0.02	0.021	0.021	0.021	1:33:43 PM	0.076	0.077	0.078	0.081	0.091	-0.07
1:42:31 PM	0.019	0.02	0.02	0.02	0.02	1:34:43 PM	0.077	0.077	0.078	0.084	0.1	-0.08
1:43:31 PM	0.022	0.022	0.022	0.022	0.022	1:35:43 PM	0.077	0.077	0.078	0.081	0.084	-0.062
1:44:31 PM	0.045	0.045	0.045	0.045	0.045	1:36:43 PM	0.076	0.076	0.077	0.084	0.101	-0.056
1:45:31 PM	0.02	0.02	0.02	0.02	0.02	1:37:43 PM	0.074	0.075	0.076	0.08	0.095	-0.075
1:46:31 PM	0.021	0.021	0.021	0.021	0.021	1:38:43 PM	0.073	0.074	0.075	0.082	0.089	-0.068
1:47:31 PM	0.019	0.019	0.019	0.019	0.019	1:39:43 PM	0.075	0.075	0.077	0.082	0.093	-0.074
1:48:31 PM	0.019	0.019	0.019	0.019	0.019	1:40:43 PM	0.075	0.076	0.077	0.083	0.089	-0.07
1:49:31 PM	0.02	0.02	0.02	0.021	0.021	1:41:43 PM	0.072	0.073	0.073	0.077	0.082	-0.061
1:50:31 PM	0.019	0.019	0.019	0.02	0.02	1:42:43 PM	0.074	0.075	0.076	0.081	0.099	-0.079
1:51:31 PM	0.019	0.019	0.019	0.019	0.019	1:43:43 PM	0.075	0.075	0.076	0.082	0.09	-0.071
1:52:31 PM	0.019	0.019	0.019	0.019	0.019	1:44:43 PM	0.072	0.073	0.073	0.077	0.078	-0.059
1:53:31 PM	0.022	0.022	0.022	0.023	0.023	1:45:43 PM	0.075	0.076	0.077	0.085	0.1	-0.077
1:54:31 PM	0.026	0.026	0.027	0.027	0.027	1:46:43 PM	0.076	0.077	0.078	0.087	0.11	-0.083
1:55:31 PM	0.02	0.02	0.02	0.02	0.02	1:47:43 PM	0.074	0.075	0.076	0.086	0.099	-0.079
1:56:31 PM	0.019	0.019	0.019	0.019	0.019	1:48:43 PM	0.107	0.107	0.109	0.119	0.168	-0.149
1:57:31 PM	0.019	0.019	0.019	0.019	0.019	1:49:43 PM	0	0	0.001	0.003	0.006	0.013
1:58:31 PM	0.019	0.019	0.019	0.02	0.02	1:50:43 PM	0.001	0.001	0.001	0.006	0.019	0.001
1:59:31 PM	0.018	0.018	0.019	0.019	0.019	1:51:43 PM	0	0	0	0.005	0.012	0.007
2:00:31 PM	0.019	0.019	0.019	0.019	0.019	1:52:43 PM	0.005	0.005	0.006	0.018	0.043	-0.024
2:01:31 PM	0.029	0.03	0.031	0.032	0.032	1:53:43 PM	0	0	0	0.001	0.004	0.028
2:02:31 PM	0.02	0.02	0.02	0.021	0.021	1:54:43 PM	0	0	0	0.002	0.009	0.012
2:03:31 PM	0.02	0.02	0.02	0.02	0.02	1:55:43 PM	0	0	0	0	0.003	0.017
2:04:31 PM	0.019	0.02	0.02	0.02	0.02	1:56:43 PM	0.001	0.001	0.002	0.009	0.023	-0.003
2:05:31 PM	0.02	0.02	0.02	0.02	0.02	1:57:43 PM	0.001	0.001	0.002	0.01	0.026	-0.006
2:06:31 PM	0.02	0.02	0.02	0.02	0.02	1:58:43 PM	0	0	0	0	0.007	0.013
2:07:31 PM	0.021	0.021	0.022	0.022	0.022	1:59:43 PM	0	0	0	0.003	0.016	0.006
2:08:31 PM	0.021	0.021	0.021	0.021	0.021	2:00:43 PM	0	0	0	0.001	0.017	0.004
2:09:31 PM	0.019	0.019	0.019	0.02	0.02	2:01:43 PM	0	0	0.001	0.003	0.008	0.012
2:10:31 PM	0.02	0.02	0.02	0.02	0.02	2:02:43 PM	0.001	0.001	0.001	0.005	0.014	0.006
2:11:31 PM	0.021	0.021	0.021	0.021	0.021	2:03:43 PM	0.001	0.001	0.001	0.005	0.013	0.008
2:12:31 PM	0.021	0.021	0.021	0.021	0.021	2:04:43 PM	0.001	0.001	0.001	0.004	0.015	0.006
2:13:31 PM	0.02	0.02	0.02	0.021	0.021	2:05:43 PM	0.001	0.001	0.001	0.004	0.013	0.008
2:14:31 PM	0.02	0.02	0.02	0.02	0.02	2:06:43 PM	0.002	0.002	0.003	0.015	0.029	-0.009
2:15:31 PM	0.021	0.021	0.021	0.021	0.021	2:07:43 PM	0.001	0.001	0.001	0.006	0.025	-0.004
2:16:31 PM	0.02	0.02	0.02	0.02	0.02	2:08:43 PM	0	0.001	0.001	0.003	0.012	0.008
2:17:31 PM	0.021	0.022	0.022	0.022	0.022	2:09:43 PM	0	0	0	0.001	0.012	0.01
2:18:31 PM	0.026	0.026	0.026	0.026	0.026	2:10:43 PM	0	0	0.001	0.003	0.016	0.01
2:19:31 PM	0.029	0.029	0.029	0.029	0.029	2:11:43 PM	0.009	0.01	0.013	0.037	0.08	-0.051
2:20:31 PM	0.022	0.022	0.022	0.022	0.022	2:12:43 PM	0	0.001	0.001	0.004	0.008	0.014
2:21:31 PM	0.021	0.021	0.021	0.021	0.021	2:13:43 PM	0.009	0.01	0.014	0.045	0.081	-0.06
2:22:31 PM	0.021	0.021	0.021	0.022	0.022	2:14:43 PM	0	0	0	0	0.001	0.021
2:23:31 PM	0.02	0.02	0.02	0.02	0.02	2:15:43 PM	0	0	0	0.002	0.004	0.016
2:24:31 PM	0.02	0.02	0.02	0.02	0.02	2:16:43 PM	0	0	0	0	0.002	0.018
2:25:31 PM	0.021	0.021	0.022	0.022	0.022	2:17:43 PM	0	0	0	0	0.005	0.017
2:26:31 PM	0.021	0.021	0.022	0.022	0.022	2:18:43 PM	0.002	0.002	0.003	0.016	0.036	-0.014
2:27:31 PM	0.02	0.02	0.021	0.021	0.021	2:19:43 PM	0	0	0	0	0.001	0.02
2:28:31 PM	0.022	0.022	0.022	0.022	0.022	2:20:43 PM	0	0	0	0	0	0.022
2:29:31 PM	0.022	0.023	0.023	0.023	0.023	2:21:43 PM	0	0	0	0	0.002	0.021
2:30:31 PM	0.024	0.024	0.024	0.024	0.025	2:22:43 PM	0	0	0	0	0	0.025
2:31:31 PM	0.021	0.022	0.022	0.022	0.022	2:23:43 PM	0	0	0	0	0.001	0.021
2:32:31 PM	0.022	0.022	0.022	0.023	0.023	2:24:43 PM	0.005	0.005	0.005	0.005	0.006	0.017
2:33:31 PM	0.021	0.021	0.021	0.021	0.021	2:25:43 PM	0	0	0	0	0.001	0.02
2:34:31 PM	0.021	0.021	0.021	0.021	0.021	2:26:43 PM	0	0	0	0	0.001	0.02
2:35:31 PM	0.021	0.021	0.022	0.022	0.022	2:27:43 PM	0.046	0.047	0.048	0.064	0.085	-0.063
2:36:31 PM	0.022	0.023	0.023	0.023	0.023	2:28:43 PM	0.007	0.007	0.007	0.007	0.011	0.012
2:37:31 PM	0.021	0.021	0.022	0.022	0.022	2:29:43 PM	0	0	0	0	0	0.022
2:38:31 PM	0.021	0.021	0.022	0.022	0.022	2:30:43 PM	0	0	0	0	0	0.022
2:39:31 PM	0.022	0.022	0.023	0.023	0.023	2:31:43 PM	0	0	0	0	0	0.023
2:40:31 PM	0.023	0.023	0.024	0.024	0.024	2:32:43 PM	0	0	0	0	0.007	0.017
2:41:31 PM	0.022	0.022	0.022	0.022	0.022	2:33:43 PM	0	0	0	0	0.001	0.021
2:42:31 PM	0.024	0.024	0.024	0.025	0.025	2:34:43 PM	0	0	0	0.001	0.003	0.022
2:43:31 PM	0.021	0.021	0.021	0.021	0.021	2:35:43 PM	0.071	0.075	0.088	0.187	0.413	-0.392
2:44:31 PM	0.022	0.022	0.022	0.023	0.023	2:36:43 PM	0.001	0.001	0.002	0.013	0.051	-0.028
2:45:31 PM	0.022	0.022	0.022	0.022	0.022	2:37:43 PM	0.004	0.004	0.004	0.005	0.01	0.012
2:46:31 PM	0.023	0.023	0.023	0.023	0.023	2:38:43 PM	0	0	0.001	0.004	0.017	0.006
2:47:31 PM	0.023	0.023	0.024	0.024	0.024	2:39:43 PM	0	0	0	0	0.004	0.02
2:48:31 PM	0.022	0.022	0.023	0.023	0.023	2:40:43 PM	0	0	0.001	0.004	0.011	0.012
2:49:31 PM	0.023	0.023	0.023	0.024	0.024	2:41:43 PM	0.003	0.003	0.004	0.012	0.04	-0.016
2:50:31 PM	0.025	0.026	0.026	0.026	0.026	2:42:43 PM	0	0	0	0	0	0.026
2:51:31 PM	0.052	0.053	0.053	0.053	0.053	2:43:43 PM	0	0	0	0	0.001	0.052
2:52:31 PM	0.024	0.025	0.025	0.025	0.025	2:44:43 PM	0.001	0.002	0.002	0.009	0.036	-0.011
2:53:31 PM	0.042	0.042	0.042	0.042	0.042	2:45:43 PM	0.002	0.003	0.003	0.01	0.024	0.018
2:54:31 PM	0.031	0.031	0.031	0.031	0.031	2:46:43 PM	0.001	0.001	0.001	0.004	0.008	0.023
2:55:31 PM	0.026	0.026	0.026	0.027	0.027	2:47:43 PM	0.001	0.001	0.001	0.003	0.016	0.011
2:56:31 PM	0.023	0.023	0.023	0.024	0.024	2:48:43 PM	0.015	0.016	0.02	0.045	0.079	-0.055
2:57:31 PM	0.023	0.024	0.024	0.024	0.024	2:49:43 PM	0.011	0.012	0.017	0.042	0.116	-0.092
2:58:31 PM	0.024	0.025	0.025	0.025	0.025	2:50:43 PM	0.001	0.001	0.001	0.004	0.02	0.005
2:59:31 PM	0.025	0.026	0.026	0.026	0.026	2:51:43 PM	0	0.001	0.001	0.004	0.017	0.009
3:00:31 PM	0.024	0.025	0.025	0.025	0.025	2:52:43 PM	0.031	0.032	0.035	0.064	0.125	-0.1
3:01:31 PM	0.023	0.023	0.024	0.024	0.024	2:53:43 PM	0.002	0.002	0.002	0.005	0.02	0.004
3:02:31 PM	0.023	0.024	0.024	0.024	0.024	2:54:43 PM	0	0	0.001	0.002	0.009	0.015
3:03:31 PM	0.023	0.023	0.023	0.023	0.023	2:55:43 PM	0.002	0.002	0.003	0.007	0.017	0.006
3:04:31 PM	0.023	0.023	0.023	0.023	0.023	2:56:43 PM	0	0	0.001	0.003	0.014	0.009
3:05:31 PM	0.023	0.023	0.023	0.024	0.024	2:57:43 PM	0	0	0	0.001	0.004	0.02
3:06:31 PM	0.023	0.023	0.023	0.024	0.024	2:58:43 PM	0	0	0	0.004	0.017	0.007
3:07:31 PM	0.025	0.025	0.025	0.026	0.026	2:59:43 PM	0.005	0.005	0.007	0.022	0.051	-0.025
3:08:31 PM	0.023	0.023	0.024	0.024	0.024	3:00:43 PM	0.004	0.004	0.005	0.012	0.025	-0.001
3:09:31 PM	0.026	0.026	0.027	0.027	0.027	3:01:43 PM	0	0	0.001	0.003	0.006	0.021

3:10:31 PM	0.028	0.028	0.029	0.029	0.029
3:11:31 PM	0.025	0.025	0.025	0.026	0.026
3:12:31 PM	0.03	0.03	0.031	0.031	0.031
3:13:31 PM	0.026	0.026	0.027	0.027	0.027
3:14:31 PM	0.045	0.045	0.045	0.045	0.045
3:15:31 PM	0.025	0.026	0.026	0.026	0.026
3:16:31 PM	0.034	0.034	0.035	0.035	0.035
3:17:31 PM	0.032	0.033	0.033	0.034	0.034
3:18:31 PM	0.026	0.026	0.026	0.026	0.026
3:19:31 PM	0.026	0.027	0.027	0.027	0.027
3:20:31 PM	0.026	0.026	0.027	0.027	0.027
3:21:31 PM	0.027	0.027	0.027	0.027	0.027
3:22:31 PM	0.029	0.03	0.03	0.031	0.031
3:23:31 PM	0.027	0.027	0.027	0.027	0.027
3:24:31 PM	0.028	0.028	0.028	0.029	0.029
3:25:31 PM	0.027	0.027	0.027	0.027	0.027
3:26:31 PM	0.028	0.029	0.029	0.029	0.029
3:27:31 PM	0.028	0.028	0.028	0.028	0.028
3:28:31 PM	0.029	0.029	0.03	0.03	0.03
3:29:31 PM	0.028	0.028	0.028	0.029	0.029
3:30:31 PM	0.028	0.029	0.029	0.029	0.029
3:31:31 PM	0.028	0.029	0.029	0.029	0.029
3:32:31 PM	0.028	0.029	0.029	0.029	0.029
3:33:31 PM	0.028	0.028	0.028	0.028	0.028
3:34:31 PM	0.028	0.029	0.029	0.029	0.029
3:35:31 PM	0.031	0.032	0.032	0.032	0.032
3:36:31 PM	0.03	0.031	0.031	0.031	0.031
3:37:31 PM	0.029	0.03	0.03	0.03	0.03
3:38:31 PM	0.03	0.03	0.03	0.03	0.03
3:39:31 PM	0.03	0.03	0.031	0.031	0.031
3:40:31 PM	0.03	0.03	0.031	0.031	0.031
3:41:31 PM	0.034	0.034	0.035	0.035	0.035
3:42:31 PM	0.03	0.03	0.031	0.031	0.031
3:43:31 PM	0.031	0.031	0.031	0.032	0.032
3:44:31 PM	0.03	0.03	0.03	0.03	0.03
3:45:31 PM	0.029	0.03	0.03	0.03	0.03
3:46:31 PM	0.029	0.03	0.03	0.03	0.031
3:47:31 PM	0.029	0.029	0.03	0.03	0.03
3:48:31 PM	0.03	0.03	0.03	0.03	0.03
3:49:31 PM	0.03	0.031	0.031	0.031	0.031
3:50:31 PM	0.031	0.031	0.031	0.032	0.032
3:51:31 PM	0.031	0.032	0.032	0.032	0.033
3:52:31 PM	0.031	0.031	0.031	0.031	0.031

3:02:43 PM	0.001	0.001	0.001	0.002	0.007	0.022
3:03:43 PM	0.003	0.003	0.004	0.006	0.014	0.012
3:04:43 PM	0.003	0.003	0.004	0.01	0.022	0.009
3:05:43 PM	0.001	0.001	0.001	0.005	0.013	0.014
3:06:43 PM	0	0	0	0.002	0.006	0.039
3:07:43 PM	0.001	0.002	0.002	0.004	0.008	0.018
3:08:43 PM	0.003	0.003	0.004	0.006	0.011	0.024
3:09:43 PM	0.001	0.001	0.001	0.003	0.004	0.03
3:10:43 PM	0.001	0.001	0.002	0.006	0.016	0.01
3:11:43 PM	0.001	0.001	0.001	0.003	0.009	0.018
3:12:43 PM	0.001	0.001	0.001	0.002	0.006	0.021
3:13:43 PM	0	0	0	0.002	0.006	0.021
3:14:43 PM	0.021	0.022	0.025	0.037	0.064	-0.033
3:15:43 PM	0.018	0.02	0.024	0.044	0.076	-0.049
3:16:43 PM	0.006	0.006	0.008	0.018	0.042	-0.013
3:17:43 PM	0.003	0.004	0.005	0.014	0.028	-0.001
3:18:43 PM	0.044	0.047	0.06	0.13	0.251	-0.222
3:19:43 PM	0.004	0.005	0.006	0.015	0.05	-0.022
3:20:43 PM	0.003	0.003	0.004	0.007	0.015	0.015
3:21:43 PM	0.006	0.006	0.008	0.017	0.042	-0.013
3:22:43 PM	0.003	0.004	0.005	0.011	0.018	0.011
3:23:43 PM	0.005	0.006	0.008	0.017	0.036	-0.007
3:24:43 PM	0.005	0.006	0.007	0.012	0.02	0.009
3:25:43 PM	0.002	0.003	0.004	0.009	0.016	0.012
3:26:43 PM	0.003	0.004	0.006	0.012	0.023	0.006
3:27:43 PM	0.004	0.005	0.006	0.01	0.018	0.014
3:28:43 PM	0.007	0.008	0.01	0.018	0.033	-0.002
3:29:43 PM	0.013	0.014	0.017	0.032	0.054	-0.024
3:30:43 PM	0.007	0.007	0.009	0.014	0.022	0.008
3:31:43 PM	0.007	0.008	0.009	0.011	0.015	0.016
3:32:43 PM	0.006	0.007	0.008	0.012	0.017	0.014
3:33:43 PM	0.01	0.01	0.012	0.016	0.019	0.016
3:34:43 PM	0.007	0.008	0.01	0.014	0.021	0.01
3:35:43 PM	0.01	0.011	0.013	0.021	0.03	0.002
3:36:43 PM	0.006	0.006	0.008	0.011	0.015	0.015
3:37:43 PM	0.009	0.01	0.011	0.014	0.025	0.005
3:38:43 PM	0.007	0.008	0.009	0.012	0.019	0.012
3:39:43 PM	0.007	0.008	0.009	0.012	0.017	0.013
3:40:43 PM	0.011	0.012	0.014	0.022	0.04	-0.01
3:41:43 PM	0.01	0.011	0.013	0.017	0.03	0.001
3:42:43 PM	0.016	0.017	0.02	0.031	0.04	-0.008
3:43:43 PM	0.012	0.013	0.015	0.021	0.034	-0.001
3:44:43 PM	0.01	0.011	0.013	0.017	0.026	0.005
3:45:43 PM	0.011	0.012	0.013	0.017	0.026	-0.026
3:46:43 PM	0.011	0.011	0.013	0.018	0.024	-0.024
3:47:43 PM	0.014	0.015	0.016	0.02	0.034	-0.034
3:48:43 PM	0.014	0.015	0.016	0.019	0.022	-0.022
3:49:43 PM	0.019	0.02	0.024	0.038	0.063	-0.063
3:50:43 PM	0.032	0.032	0.034	0.039	0.072	-0.072
3:51:43 PM	0.02	0.021	0.023	0.037	0.055	-0.055
3:52:43 PM	0.047	0.05	0.06	0.108	0.173	-0.173

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113405
Firmware Version	2.8
Calibration Date	12/1/2011
Test Name	MANUAL_007
Test Start Time	10:09:31 AM
Test Start Date	7/23/2012
Test Length [D:H:M]	0:05:44
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.033
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.241
PM1 TWA [mg/m3]	0.024
PM2.5 Average [mg/m3]	0.034
PM2.5 Minimum [mg/m3]	0.018
PM2.5 Maximum [mg/m3]	0.253
PM2.5 TWA [mg/m3]	0.024
PM4 Average [mg/m3]	0.035
PM4 Minimum [mg/m3]	0.019
PM4 Maximum [mg/m3]	0.274
PM4 TWA [mg/m3]	0.025
PM10 Average [mg/m3]	0.035
PM10 Minimum [mg/m3]	0.019
PM10 Maximum [mg/m3]	0.303
PM10 TWA [mg/m3]	0.025
TOTAL Average [mg/m3]	0.036
TOTAL Minimum [mg/m3]	0.019
TOTAL Maximum [mg/m3]	0.308
TOTAL TWA [mg/m3]	0.026
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	
Number of Samples	344

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg/m3]
10:09:31 AM	0.092	0.093	0.096	0.104	0.111
120	0.104	0.106	0.11	0.115	0.117
180	0.137	0.14	0.146	0.156	0.162
240	0.137	0.14	0.145	0.156	0.16
300	0.112	0.115	0.121	0.129	0.132
360	0.054	0.055	0.057	0.059	0.061
420	0.036	0.036	0.037	0.038	0.039
480	0.042	0.043	0.044	0.046	0.047
540	0.039	0.04	0.041	0.043	0.043
600	0.053	0.054	0.056	0.058	0.059
660	0.06	0.061	0.064	0.067	0.069
720	0.037	0.038	0.039	0.04	0.04
780	0.04	0.04	0.041	0.043	0.044
840	0.081	0.083	0.088	0.092	0.093
900	0.154	0.16	0.169	0.18	0.182
960	0.109	0.113	0.119	0.126	0.127
1020	0.073	0.075	0.079	0.085	0.085
1080	0.034	0.034	0.035	0.036	0.037
1140	0.036	0.037	0.038	0.039	0.039
1200	0.025	0.025	0.025	0.026	0.026
1260	0.033	0.034	0.035	0.036	0.036
1320	0.093	0.097	0.103	0.108	0.109
1380	0.04	0.041	0.042	0.044	0.045
1440	0.087	0.089	0.091	0.095	0.096
1500	0.087	0.09	0.095	0.101	0.101
1560	0.045	0.046	0.048	0.05	0.05
1620	0.056	0.058	0.061	0.064	0.064
1680	0.04	0.041	0.042	0.044	0.045
1740	0.091	0.094	0.1	0.108	0.109
1800	0.04	0.041	0.043	0.044	0.044
1860	0.028	0.028	0.029	0.03	0.03
1920	0.029	0.03	0.03	0.031	0.031
1980	0.043	0.044	0.045	0.047	0.047
2040	0.034	0.034	0.035	0.036	0.037
2100	0.04	0.041	0.042	0.044	0.045
2160	0.058	0.06	0.063	0.068	0.068
2220	0.031	0.031	0.032	0.033	0.034
2280	0.031	0.031	0.032	0.033	0.033
2340	0.027	0.027	0.028	0.028	0.028
2400	0.022	0.022	0.022	0.022	0.023
2460	0.022	0.022	0.022	0.022	0.023
2520	0.087	0.09	0.095	0.102	0.103
2580	0.024	0.024	0.024	0.025	0.025
2640	0.023	0.024	0.024	0.024	0.024
2700	0.026	0.026	0.026	0.027	0.027
2760	0.028	0.029	0.029	0.03	0.03
2820	0.041	0.041	0.042	0.044	0.044
2880	0.031	0.032	0.032	0.034	0.034
2940	0.04	0.041	0.042	0.043	0.043
3000	0.029	0.03	0.03	0.03	0.03
3060	0.024	0.024	0.024	0.025	0.025
3120	0.023	0.023	0.024	0.024	0.024
3180	0.023	0.023	0.023	0.024	0.024
3240	0.023	0.023	0.024	0.024	0.024
3300	0.027	0.028	0.028	0.029	0.029
3360	0.049	0.051	0.054	0.056	0.057
3420	0.025	0.025	0.025	0.026	0.026
3480	0.028	0.028	0.028	0.028	0.028
3540	0.025	0.025	0.025	0.026	0.026
3600	0.024	0.025	0.025	0.025	0.025
3660	0.028	0.028	0.028	0.029	0.029
3720	0.026	0.026	0.026	0.026	0.026
3780	0.027	0.027	0.028	0.028	0.028
3840	0.029	0.029	0.029	0.03	0.03
3900	0.027	0.027	0.027	0.027	0.027
3960	0.026	0.026	0.026	0.026	0.026
4020	0.025	0.025	0.025	0.025	0.025
4080	0.024	0.024	0.025	0.025	0.025
4140	0.026	0.026	0.026	0.026	0.027
4200	0.027	0.027	0.027	0.028	0.028

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533113407
Firmware Version	2.8
Calibration Date	8/18/2011
Test Name	MANUAL_008
Test Start Time	10:17:18 AM
Test Start Date	7/23/2012
Test Length [D:H:M]	0:00:23
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.202
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	1.1
PM1 TWA [mg/m3]	0.01
PM2.5 Average [mg/m3]	0.203
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	1.1
PM2.5 TWA [mg/m3]	0.01
PM4 Average [mg/m3]	0.205
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	1.1
PM4 TWA [mg/m3]	0.01
PM10 Average [mg/m3]	0.225
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	1.12
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.427
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	2.09
TOTAL TWA [mg/m3]	0.02
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	1
Errors	Flow Error
Number of Samples	20

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg/m3]	Difference
						-0.111
						-0.117
						-0.162
						-0.16
						-0.132
						-0.061
						-0.039
						-0.047
						-0.043
60	0.169	0.17	0.174	0.204	0.481	0.422
120	0.077	0.078	0.082	0.109	0.345	0.276
180	0.065	0.066	0.069	0.093	0.257	0.217
240	0.051	0.052	0.056	0.078	0.273	0.229
300	0.056	0.058	0.063	0.103	0.313	0.22
360	0.046	0.047	0.049	0.069	0.223	0.041
420	0.035	0.036	0.038	0.052	0.189	0.062
480	0.767	0.769	0.774	0.829	2.09	2.005
540	1.1	1.1	1.1	1.12	1.59	1.553
600	0.194	0.195	0.196	0.205	0.275	0.236
660	0.103	0.104	0.106	0.121	0.248	0.222
720	0.109	0.11	0.112	0.121	0.159	0.123
780	0.111	0.111	0.113	0.123	0.171	0.062
840	0.17	0.173	0.182	0.25	0.672	0.627
1122	0	0	0	0	0	-0.096
1140	0.296	0.296	0.296	0.296	0.296	0.195
1200	0.155	0.155	0.155	0.155	0.155	0.105
1260	0.142	0.142	0.142	0.142	0.142	0.078
1320	0.095	0.095	0.095	0.095	0.095	0.05
1380	0.298	0.299	0.301	0.331	0.571	0.462
60	0.092	0.093	0.096	0.131	0.497	0.453
120	0.036	0.037	0.04	0.06	0.14	0.11
180	0.027	0.027	0.029	0.039	0.118	0.087
240	0.025	0.026	0.028	0.04	0.075	0.028
300	0.028	0.029	0.032	0.048	0.074	0.037
360	0.022	0.023	0.024	0.031	0.047	0.002
420	0.021	0.022	0.022	0.026	0.038	-0.03
480	0.022	0.022	0.023	0.027	0.044	0.01
540	0.024	0.024	0.025	0.031	0.039	0.006
600	0.059	0.064	0.076	0.126	0.171	0.143
660	0.187	0.204	0.249	0.462	0.697	0.674
720	0.209	0.227	0.275	0.544	0.831	0.808
780	0.001	0.001	0.001	0.003	0.007	-0.096
840	0.011	0.011	0.012	0.014	0.021	-0.004
900	0.125	0.135	0.161	0.267	0.344	0.32
960	0.261	0.286	0.349	0.618	0.833	0.806
1020	0.154	0.164	0.19	0.284	0.351	0.321
1080	0.136	0.141	0.151	0.188	0.214	0.17
1140	0.133	0.137	0.147	0.186	0.23	0.196
1200	0.089	0.09	0.091	0.095	0.105	0.062
1260	0.089	0.09	0.09	0.093	0.098	0.068
1320	0.082	0.082	0.083	0.089	0.1	0.075
1380	0.085	0.085	0.088	0.098	0.114	0.09
1440	0.08	0.08	0.081	0.085	0.089	0.065
1500	0.08	0.081	0.082	0.086	0.103	0.079
1560	0.08	0.08	0.081	0.085	0.101	0.072
1620	0.078	0.078	0.079	0.086	0.101	0.044
1680	0.076	0.076	0.077	0.083	0.096	0.07
1740	0.071	0.071	0.072	0.077	0.085	0.057
1800	0.074	0.074	0.076	0.081	0.091	0.065
1860	0.075	0.075	0.076	0.08	0.085	0.06
1920	0.073	0.073	0.074	0.076	0.079	0.05
1980	0.075	0.076	0.077	0.08	0.085	0.059
2040	0.077	0.077	0.078	0.082	0.09	0.062
2100	0.077	0.077	0.078	0.083	0.094	0.064
2160	0.076	0.076	0.077	0.079	0.085	0.058
2220	0.076	0.077	0.078	0.081	0.091	0.065
2280	0.077	0.077	0.078	0.084	0.1	0.075
2340	0.077	0.077	0.078	0.081	0.084	0.059
2400	0.076	0.076	0.077	0.084	0.101	0.074
2460	0.074	0.075	0.076	0.08	0.095	0.067

4260	0.025	0.026	0.026	0.026	0.026
4320	0.028	0.028	0.029	0.029	0.029
4380	0.027	0.027	0.027	0.028	0.028
4440	0.025	0.025	0.026	0.026	0.026
4500	0.028	0.029	0.029	0.029	0.032
4560	0.029	0.03	0.03	0.03	0.03
4620	0.047	0.048	0.049	0.051	0.051
4680	0.042	0.043	0.044	0.045	0.046
4740	0.03	0.031	0.031	0.032	0.032
4800	0.041	0.042	0.043	0.045	0.046
4860	0.036	0.037	0.037	0.038	0.039
4920	0.031	0.032	0.032	0.033	0.033
4980	0.041	0.042	0.043	0.044	0.044
5040	0.034	0.035	0.036	0.036	0.037
5100	0.028	0.028	0.029	0.029	0.029
5160	0.029	0.029	0.03	0.03	0.03
5220	0.052	0.054	0.056	0.059	0.059
5280	0.073	0.075	0.077	0.079	0.08
5340	0.045	0.046	0.048	0.05	0.05
5400	0.042	0.043	0.044	0.045	0.045
5460	0.048	0.05	0.051	0.053	0.053
5520	0.093	0.097	0.101	0.106	0.106
5580	0.053	0.055	0.056	0.058	0.058
5640	0.044	0.045	0.046	0.047	0.047
5700	0.047	0.048	0.05	0.051	0.051
5760	0.055	0.057	0.059	0.061	0.061
5820	0.112	0.117	0.123	0.129	0.13
5880	0.037	0.038	0.038	0.039	0.04
5940	0.055	0.057	0.059	0.061	0.061
6000	0.075	0.078	0.082	0.085	0.085
6060	0.044	0.046	0.047	0.049	0.049
6120	0.029	0.03	0.03	0.03	0.03
6180	0.215	0.221	0.233	0.251	0.257
6240	0.241	0.253	0.274	0.303	0.308
6300	0.04	0.041	0.042	0.044	0.044
6360	0.031	0.031	0.032	0.032	0.032
6420	0.03	0.031	0.031	0.031	0.031
6480	0.032	0.033	0.033	0.033	0.033
6540	0.034	0.035	0.035	0.036	0.036
6600	0.032	0.032	0.032	0.033	0.033
6660	0.034	0.034	0.035	0.035	0.035
6720	0.033	0.033	0.033	0.033	0.033
6780	0.033	0.033	0.033	0.033	0.033
6840	0.05	0.051	0.053	0.053	0.053
6900	0.031	0.031	0.031	0.032	0.032
6960	0.028	0.028	0.028	0.028	0.028
7020	0.028	0.028	0.029	0.029	0.029
7080	0.028	0.028	0.028	0.028	0.028
7140	0.029	0.029	0.029	0.029	0.029
7200	0.03	0.03	0.03	0.031	0.031
7260	0.029	0.029	0.03	0.03	0.03
7320	0.03	0.03	0.031	0.031	0.031
7380	0.031	0.031	0.031	0.031	0.031
7440	0.029	0.029	0.029	0.029	0.029
7500	0.03	0.031	0.031	0.031	0.031
7560	0.031	0.032	0.032	0.032	0.032
7620	0.033	0.033	0.034	0.034	0.034
7680	0.032	0.032	0.033	0.033	0.033
7740	0.032	0.033	0.033	0.033	0.033
7800	0.037	0.038	0.038	0.039	0.039
7860	0.034	0.035	0.035	0.036	0.036
7920	0.033	0.033	0.034	0.034	0.034
7980	0.034	0.034	0.034	0.035	0.035
8040	0.034	0.034	0.035	0.035	0.035
8100	0.03	0.03	0.031	0.031	0.031
8160	0.029	0.029	0.03	0.03	0.03
8220	0.029	0.029	0.029	0.029	0.029
8280	0.028	0.029	0.029	0.029	0.029
8340	0.04	0.041	0.042	0.043	0.043
8400	0.028	0.029	0.029	0.029	0.029
8460	0.031	0.031	0.031	0.032	0.032
8520	0.027	0.027	0.028	0.028	0.028
8580	0.031	0.031	0.031	0.031	0.032
8640	0.031	0.031	0.031	0.031	0.031
8700	0.034	0.034	0.034	0.035	0.035
8760	0.046	0.047	0.048	0.048	0.048
8820	0.033	0.034	0.035	0.035	0.035
8880	0.027	0.027	0.027	0.028	0.028
8940	0.025	0.025	0.025	0.025	0.025
9000	0.026	0.026	0.026	0.026	0.026
9060	0.024	0.024	0.025	0.025	0.025
9120	0.022	0.022	0.022	0.022	0.022
9180	0.022	0.022	0.022	0.023	0.023
9240	0.022	0.022	0.022	0.022	0.022
9300	0.022	0.022	0.022	0.023	0.023
9360	0.023	0.023	0.023	0.023	0.023
9420	0.022	0.022	0.022	0.022	0.022
9480	0.021	0.021	0.021	0.021	0.021
9540	0.023	0.023	0.023	0.023	0.023
9600	0.022	0.023	0.023	0.023	0.023
9660	0.022	0.022	0.022	0.022	0.022
9720	0.024	0.024	0.024	0.025	0.025
9780	0.022	0.023	0.023	0.023	0.023
9840	0.023	0.023	0.023	0.023	0.023
9900	0.022	0.022	0.023	0.023	0.023
9960	0.021	0.021	0.021	0.022	0.022
10020	0.02	0.02	0.02	0.02	0.02
10080	0.021	0.021	0.021	0.022	0.022
10140	0.022	0.022	0.022	0.022	0.022
10200	0.021	0.021	0.021	0.021	0.021
10260	0.02	0.021	0.021	0.021	0.021
10320	0.022	0.023	0.023	0.023	0.023
10380	0.022	0.022	0.022	0.022	0.022
10440	0.021	0.021	0.021	0.021	0.021
10500	0.021	0.022	0.022	0.022	0.022
10560	0.023	0.023	0.024	0.024	0.024
10620	0.027	0.028	0.028	0.028	0.028

2520	0.073	0.074	0.075	0.082	0.089	0.063
2580	0.075	0.075	0.077	0.082	0.093	0.064
2640	0.075	0.076	0.077	0.083	0.089	0.061
2700	0.072	0.073	0.073	0.077	0.082	0.056
2760	0.074	0.075	0.076	0.081	0.099	0.067
2820	0.075	0.075	0.076	0.082	0.09	0.06
2880	0.072	0.073	0.073	0.077	0.078	0.027
2940	0.075	0.076	0.077	0.085	0.1	0.054
3000	0.076	0.077	0.078	0.087	0.11	0.078
3060	0.074	0.075	0.076	0.086	0.099	0.053
3120	0.107	0.107	0.109	0.119	0.168	0.129
3180	0	0	0.001	0.003	0.006	-0.027
3240	0.001	0.001	0.001	0.006	0.019	-0.025
3300	0	0	0	0.005	0.012	-0.025
3360	0.005	0.005	0.006	0.018	0.043	0.014
3420	0	0	0	0.001	0.004	-0.026
3480	0	0	0	0.002	0.009	-0.05
3540	0	0	0	0	0.003	-0.077
3600	0.001	0.001	0.002	0.009	0.023	-0.027
3660	0.001	0.001	0.002	0.01	0.026	-0.019
3720	0	0	0	0	0.007	-0.046
3780	0	0	0	0.003	0.016	-0.09
3840	0	0	0	0.001	0.017	-0.041
3900	0	0	0.001	0.003	0.008	-0.039
3960	0.001	0.001	0.001	0.005	0.014	-0.037
4020	0.001	0.001	0.001	0.005	0.013	-0.048
4080	0.001	0.001	0.001	0.004	0.015	-0.115
4140	0.001	0.001	0.001	0.004	0.013	-0.027
4200	0.002	0.002	0.003	0.015	0.029	-0.032
4260	0.001	0.001	0.001	0.006	0.025	-0.06
4320	0	0.001	0.001	0.003	0.012	-0.037
4380	0	0	0	0.001	0.012	-0.018
4440	0	0	0.001	0.003	0.016	-0.241
4500	0.009	0.01	0.013	0.037	0.08	-0.228
4560	0	0.001	0.001	0.004	0.008	-0.036
4620	0.009	0.01	0.014	0.045	0.081	0.049
4680	0	0	0	0	0.001	-0.03
4740	0	0	0	0.002	0.004	-0.029
4800	0	0	0	0	0.002	-0.034
4860	0	0	0	0	0.005	-0.028
4920	0.002	0.002	0.003	0.016	0.036	0.001
4980	0	0	0	0	0.001	-0.032
5040	0	0	0	0	0	-0.033
5100	0	0	0	0	0.002	-0.051
5160	0	0	0	0	0	-0.032
5220	0	0	0	0	0.001	-0.027
5280	0.005	0.005	0.005	0.005	0.006	-0.023
5340	0	0	0	0	0.001	-0.027
5400	0	0	0	0	0.001	-0.028
5460	0.046	0.047	0.048	0.064	0.085	0.054
5520	0.007	0.007	0.007	0.007	0.011	-0.019
5580	0	0	0	0	0	-0.031
5640	0	0	0	0	0	-0.031
5700	0	0	0	0	0	-0.029
5760	0	0	0	0	0.007	-0.024
5820	0	0	0	0	0.001	-0.031
5880	0	0	0	0.001	0.003	-0.031
5940	0.071	0.075	0.088	0.187	0.413	0.38
6000	0.001	0.001	0.002	0.013	0.051	0.018
6060	0.004	0.004	0.004	0.005	0.01	-0.029
6120	0	0	0.001	0.004	0.017	-0.019
6180	0	0	0	0	0.004	-0.03
6240	0	0	0.001	0.004	0.011	-0.024
6300	0.003	0.003	0.004	0.012	0.04	0.005
6360	0	0	0	0	0	-0.031
6420	0	0	0	0	0.001	-0.029
6480	0.001	0.002	0.002	0.009	0.036	0.007
6540	0.002	0.003	0.003	0.01	0.024	-0.005
6600	0.001	0.001	0.001	0.004	0.008	-0.035
6660	0.001	0.001	0.001	0.003	0.016	-0.013
6720	0.015	0.016	0.02	0.045	0.079	0.047
6780	0.011	0.012	0.017	0.042	0.116	0.088
6840	0.001	0.001	0.001	0.004	0.02	-0.012
6900	0	0.001	0.001	0.004	0.017	-0.014
6960	0.031	0.032	0.035	0.064	0.125	0.09
7020	0.002	0.002	0.002	0.005	0.02	-0.028
7080	0	0	0.001	0.002	0.009	-0.026
7140	0.002	0.002	0.003	0.007	0.017	-0.011
7200	0	0	0.001	0.003	0.014	-0.011
7260	0	0	0	0.001	0.004	-0.022
7320	0	0	0	0.004	0.017	-0.008
7380	0.005	0.005	0.007	0.022	0.051	0.029
7440	0.004	0.004	0.005	0.012	0.025	0.002
7500	0	0	0.001	0.003	0.006	-0.016
7560	0.001	0.001	0.001	0.002	0.007	-0.016
7620	0.003	0.003	0.004	0.006	0.014	-0.009
7680	0.003	0.003	0.004	0.01	0.022	0
7740	0.001	0.001	0.001	0.005	0.013	-0.008
7800	0	0	0	0.002	0.006	-0.017
7860	0.001	0.002	0.002	0.004	0.008	-0.015
7920	0.003	0.003	0.004	0.006	0.011	-0.011
7980	0.001	0.001	0.001	0.003	0.004	-0.021
8040	0.001	0.001	0.002	0.006	0.016	-0.007
8100	0.001	0.001	0.001	0.003	0.009	-0.014
8160	0.001	0.001	0.001	0.002	0.006	-0.017
8220	0	0	0	0.002	0.006	-0.016
8280	0.021	0.022	0.025	0.037	0.064	0.044
8340	0.018	0.02	0.024	0.044	0.076	0.054
8400	0.006	0.006	0.008	0.018	0.042	0.02
8460	0.003	0.004	0.005	0.014	0.028	0.007
8520	0.044	0.047	0.06	0.13	0.251	0.23
8580	0.004	0.005	0.006	0.015	0.05	0.027
8640	0.003	0.003	0.004	0.007	0.015	-0.007
8700	0.006	0.006	0.008	0.017	0.042	0.021
8760	0.003	0.004	0.005	0.011	0.018	-0.004
8820	0.005	0.006	0.008	0.017	0.036	0.012
8880	0.005	0.006	0.007	0.012	0.02	-0.008

10680	0.022	0.022	0.022	0.022	0.022
10740	0.026	0.026	0.027	0.027	0.027
10800	0.022	0.022	0.023	0.023	0.023
10860	0.021	0.021	0.021	0.021	0.021
10920	0.022	0.023	0.023	0.023	0.023
10980	0.027	0.027	0.027	0.027	0.027
11040	0.022	0.023	0.023	0.023	0.023
11100	0.024	0.024	0.025	0.025	0.025
11160	0.023	0.023	0.023	0.024	0.024
11220	0.022	0.022	0.022	0.023	0.023
11280	0.023	0.023	0.023	0.024	0.024
11340	0.024	0.024	0.024	0.024	0.024
11400	0.026	0.026	0.026	0.026	0.026
11460	0.027	0.027	0.028	0.028	0.028
11520	0.029	0.029	0.029	0.03	0.03
11580	0.032	0.032	0.032	0.033	0.033
11640	0.03	0.031	0.031	0.031	0.031
11700	0.025	0.025	0.026	0.026	0.026
11760	0.033	0.034	0.034	0.034	0.034
11820	0.035	0.035	0.035	0.035	0.035
11880	0.033	0.034	0.034	0.034	0.034
11940	0.037	0.037	0.037	0.037	0.037
12000	0.032	0.033	0.033	0.033	0.033
12060	0.031	0.031	0.031	0.032	0.032
12120	0.032	0.032	0.033	0.033	0.033
12180	0.03	0.03	0.03	0.03	0.03
12240	0.029	0.03	0.03	0.03	0.03
12300	0.024	0.025	0.025	0.025	0.025
12360	0.024	0.024	0.024	0.024	0.024
12420	0.024	0.025	0.025	0.025	0.025
12480	0.023	0.023	0.024	0.024	0.024
12540	0.023	0.024	0.024	0.024	0.024
12600	0.021	0.021	0.021	0.021	0.021
12660	0.02	0.02	0.02	0.02	0.02
12720	0.021	0.021	0.021	0.021	0.021
12780	0.02	0.02	0.021	0.021	0.021
12840	0.019	0.02	0.02	0.02	0.02
12900	0.022	0.022	0.022	0.022	0.022
12960	0.045	0.045	0.045	0.045	0.045
13020	0.02	0.02	0.02	0.02	0.02
13080	0.021	0.021	0.021	0.021	0.021
13140	0.019	0.019	0.019	0.019	0.019
13200	0.019	0.019	0.019	0.019	0.019
13260	0.02	0.02	0.02	0.021	0.021
13320	0.019	0.019	0.019	0.02	0.02
13380	0.019	0.019	0.019	0.019	0.019
13440	0.019	0.019	0.019	0.019	0.019
13500	0.022	0.022	0.022	0.023	0.023
13560	0.026	0.026	0.027	0.027	0.027
13620	0.02	0.02	0.02	0.02	0.02
13680	0.019	0.019	0.019	0.019	0.019
13740	0.019	0.019	0.019	0.019	0.019
13800	0.019	0.019	0.019	0.02	0.02
13860	0.018	0.018	0.019	0.019	0.019
13920	0.019	0.019	0.019	0.019	0.019
13980	0.029	0.03	0.031	0.032	0.032
14040	0.02	0.02	0.02	0.021	0.021
14100	0.02	0.02	0.02	0.02	0.02
14160	0.019	0.02	0.02	0.02	0.02
14220	0.02	0.02	0.02	0.02	0.02
14280	0.02	0.02	0.02	0.02	0.02
14340	0.021	0.021	0.022	0.022	0.022
14400	0.021	0.021	0.021	0.021	0.021
14460	0.019	0.019	0.019	0.02	0.02
14520	0.02	0.02	0.02	0.02	0.02
14580	0.021	0.021	0.021	0.021	0.021
14640	0.021	0.021	0.021	0.021	0.021
14700	0.02	0.02	0.02	0.021	0.021
14760	0.02	0.02	0.02	0.02	0.02
14820	0.021	0.021	0.021	0.021	0.021
14880	0.02	0.02	0.02	0.02	0.02
14940	0.021	0.022	0.022	0.022	0.022
15000	0.026	0.026	0.026	0.026	0.026
15060	0.029	0.029	0.029	0.029	0.029
15120	0.022	0.022	0.022	0.022	0.022
15180	0.021	0.021	0.021	0.021	0.021
15240	0.021	0.021	0.021	0.022	0.022
15300	0.02	0.02	0.02	0.02	0.02
15360	0.02	0.02	0.02	0.02	0.02
15420	0.021	0.021	0.022	0.022	0.022
15480	0.021	0.021	0.022	0.022	0.022
15540	0.02	0.02	0.021	0.021	0.021
15600	0.022	0.022	0.022	0.022	0.022
15660	0.022	0.023	0.023	0.023	0.023
15720	0.024	0.024	0.024	0.024	0.025
15780	0.021	0.022	0.022	0.022	0.022
15840	0.022	0.022	0.022	0.023	0.023
15900	0.021	0.021	0.021	0.021	0.021
15960	0.021	0.021	0.021	0.021	0.021
16020	0.021	0.021	0.022	0.022	0.022
16080	0.022	0.023	0.023	0.023	0.023
16140	0.021	0.021	0.022	0.022	0.022
16200	0.021	0.021	0.022	0.022	0.022
16260	0.022	0.022	0.023	0.023	0.023
16320	0.023	0.023	0.024	0.024	0.024
16380	0.022	0.022	0.022	0.022	0.022
16440	0.024	0.024	0.024	0.025	0.025
16500	0.021	0.021	0.021	0.021	0.021
16560	0.022	0.022	0.022	0.023	0.023
16620	0.022	0.022	0.022	0.022	0.022
16680	0.023	0.023	0.023	0.023	0.023
16740	0.023	0.023	0.024	0.024	0.024
16800	0.022	0.022	0.023	0.023	0.023
16860	0.023	0.023	0.023	0.024	0.024
16920	0.025	0.026	0.026	0.026	0.026
16980	0.052	0.053	0.053	0.053	0.053
17040	0.024	0.025	0.025	0.025	0.025

8940	0.002	0.003	0.004	0.009	0.016
9000	0.003	0.004	0.006	0.012	0.023
9060	0.004	0.005	0.006	0.01	0.018
9120	0.007	0.008	0.01	0.018	0.033
9180	0.013	0.014	0.017	0.032	0.054
9240	0.007	0.007	0.009	0.014	0.022
9300	0.007	0.008	0.009	0.011	0.015
9360	0.006	0.007	0.008	0.012	0.017
9420	0.01	0.01	0.012	0.016	0.019
9480	0.007	0.008	0.01	0.014	0.021
9540	0.01	0.011	0.013	0.021	0.03
9600	0.006	0.006	0.008	0.011	0.015
9660	0.009	0.01	0.011	0.014	0.025
9720	0.007	0.008	0.009	0.012	0.019
9780	0.007	0.008	0.009	0.012	0.017
9840	0.011	0.012	0.014	0.022	0.04
9900	0.01	0.011	0.013	0.017	0.03
9960	0.016	0.017	0.02	0.031	0.04
10020	0.012	0.013	0.015	0.021	0.034
10080	0.01	0.011	0.013	0.017	0.026
10140	0.011	0.012	0.013	0.017	0.026
10200	0.011	0.011	0.013	0.018	0.024
10260	0.014	0.015	0.016	0.02	0.034
10320	0.014	0.015	0.016	0.019	0.022
10380	0.019	0.02	0.024	0.038	0.063
10440	0.032	0.032	0.034	0.039	0.072
10500	0.02	0.021	0.023	0.037	0.055
10560	0.047	0.05	0.06	0.108	0.173
10620	0.018	0.019	0.021	0.029	0.036
10680	0.016	0.016	0.018	0.023	0.032
10740	0.02	0.021	0.023	0.03	0.038
10800	0.02	0.021	0.022	0.026	0.031
10860	0.024	0.025	0.027	0.035	0.048
10920	0.02	0.021	0.023	0.027	0.029
10980	0.021	0.023	0.025	0.035	0.052
11040	0.027	0.028	0.032	0.042	0.056
11100	0.021	0.021	0.023	0.029	0.031
11160	0.02	0.021	0.022	0.027	0.032
11220	0.022	0.023	0.025	0.032	0.041
11280	0.022	0.023	0.026	0.032	0.04
11340	0.025	0.026	0.029	0.038	0.041
11400	0.026	0.028	0.031	0.04	0.054
11460	0.026	0.027	0.029	0.033	0.039
11520	0.029	0.03	0.033	0.04	0.068
11580	0.028	0.029	0.031	0.036	0.046
11640	0.028	0.029	0.031	0.037	0.047
11700	0.04	0.043	0.048	0.066	0.096
11760	0.029	0.03	0.032	0.041	0.053
11820	0.03	0.031	0.035	0.046	0.07
11880	0.029	0.031	0.033	0.04	0.051
11940	0.037	0.038	0.041	0.055	0.078
12000	0.11	0.112	0.114	0.123	0.142
12060	0.121	0.122	0.125	0.136	0.152
12120	0.125	0.126	0.129	0.136	0.142
12180	0.118	0.119	0.122	0.127	0.133
12240	0.118	0.119	0.122	0.126	0.131
12300	0.119	0.12	0.123	0.128	0.139
12360	0.121	0.122	0.124	0.129	0.136
12420	0.126	0.127	0.13	0.138	0.156
12480	0.125	0.127	0.13	0.141	0.167
12540	0.125	0.126	0.128	0.135	0.147
12600	0.14	0.141	0.143	0.152	0.2
12660	0.12	0.121	0.124	0.129	0.134
12720	0.126	0.127	0.129	0.136	0.141
12780	0.12	0.121	0.123	0.127	0.132
12840	0.12	0.121	0.123	0.126	0.14
12900	0.119	0.12	0.123	0.128	0.131
12960	0.12	0.121	0.123	0.128	0.133
13020	0.13	0.131	0.134	0.148	0.214
13080	0.123	0.124	0.126	0.131	0.146
13140	0.123	0.124	0.126	0.13	0.141
13200	0.122	0.123	0.126	0.13	0.133
13260	0.122	0.123	0.125	0.129	0.137

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-0.053
-0.025

17100	0.042	0.042	0.042	0.042	0.042	-0.042
17160	0.031	0.031	0.031	0.031	0.031	-0.031
17220	0.026	0.026	0.026	0.027	0.027	-0.027
17280	0.023	0.023	0.023	0.024	0.024	-0.024
17340	0.023	0.024	0.024	0.024	0.024	-0.024
17400	0.024	0.025	0.025	0.025	0.025	-0.025
17460	0.025	0.026	0.026	0.026	0.026	-0.026
17520	0.024	0.025	0.025	0.025	0.025	-0.025
17580	0.023	0.023	0.024	0.024	0.024	-0.024
17640	0.023	0.024	0.024	0.024	0.024	-0.024
17700	0.023	0.023	0.023	0.023	0.023	-0.023
17760	0.023	0.023	0.023	0.023	0.023	-0.023
17820	0.023	0.023	0.023	0.024	0.024	-0.024
17880	0.023	0.023	0.023	0.024	0.024	-0.024
17940	0.025	0.025	0.025	0.026	0.026	-0.026
18000	0.023	0.023	0.024	0.024	0.024	-0.024
18060	0.026	0.026	0.027	0.027	0.027	-0.027
18120	0.028	0.028	0.029	0.029	0.029	-0.029
18180	0.025	0.025	0.025	0.026	0.026	-0.026
18240	0.03	0.03	0.031	0.031	0.031	-0.031
18300	0.026	0.026	0.027	0.027	0.027	-0.027
18360	0.045	0.045	0.045	0.045	0.045	-0.045
18420	0.025	0.026	0.026	0.026	0.026	-0.026
18480	0.034	0.034	0.035	0.035	0.035	-0.035
18540	0.032	0.033	0.033	0.034	0.034	-0.034
18600	0.026	0.026	0.026	0.026	0.026	-0.026
18660	0.026	0.027	0.027	0.027	0.027	-0.027
18720	0.026	0.026	0.027	0.027	0.027	-0.027
18780	0.027	0.027	0.027	0.027	0.027	-0.027
18840	0.029	0.03	0.03	0.031	0.031	-0.031
18900	0.027	0.027	0.027	0.027	0.027	-0.027
18960	0.028	0.028	0.028	0.029	0.029	-0.029
19020	0.027	0.027	0.027	0.027	0.027	-0.027
19080	0.028	0.029	0.029	0.029	0.029	-0.029
19140	0.028	0.028	0.028	0.028	0.028	-0.028
19200	0.029	0.029	0.03	0.03	0.03	-0.03
19260	0.028	0.028	0.028	0.029	0.029	-0.029
19320	0.028	0.029	0.029	0.029	0.029	-0.029
19380	0.028	0.029	0.029	0.029	0.029	-0.029
19440	0.028	0.029	0.029	0.029	0.029	-0.029
19500	0.028	0.028	0.028	0.028	0.028	-0.028
19560	0.028	0.029	0.029	0.029	0.029	-0.029
19620	0.031	0.032	0.032	0.032	0.032	-0.032
19680	0.03	0.031	0.031	0.031	0.031	-0.031
19740	0.029	0.03	0.03	0.03	0.03	-0.03
19800	0.03	0.03	0.03	0.03	0.03	-0.03
19860	0.03	0.03	0.031	0.031	0.031	-0.031
19920	0.03	0.03	0.031	0.031	0.031	-0.031
19980	0.034	0.034	0.035	0.035	0.035	-0.035
20040	0.03	0.03	0.031	0.031	0.031	-0.031
20100	0.031	0.031	0.031	0.032	0.032	-0.032
20160	0.03	0.03	0.03	0.03	0.03	-0.03
20220	0.029	0.03	0.03	0.03	0.03	-0.03
20280	0.029	0.03	0.03	0.03	0.031	-0.031
20340	0.029	0.029	0.03	0.03	0.03	-0.03
20400	0.03	0.03	0.03	0.03	0.03	-0.03
20460	0.03	0.031	0.031	0.031	0.031	-0.031
20520	0.031	0.031	0.031	0.032	0.032	-0.032
20580	0.031	0.032	0.032	0.032	0.033	-0.033
20640	0.031	0.031	0.031	0.031	0.031	-0.031

Activity: utility preclearance of SB-31

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000135
Data Points: 118 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/13/2012 12:19

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/13/2012 13:56	0		0		0	
2	7/13/2012 13:57	0		0		0	
3	7/13/2012 13:58	0		0		0	
4	7/13/2012 13:59	0		0		0	
5	7/13/2012 14:00	0		0		0.8	
6	7/13/2012 14:01	0		0		0.3	
7	7/13/2012 14:02	0		0		0	
8	7/13/2012 14:03	0		0		0	
9	7/13/2012 14:04	0		0		0	
10	7/13/2012 14:05	0		0		0	
11	7/13/2012 14:06	0		0		0	
12	7/13/2012 14:07	0		0		0	
13	7/13/2012 14:08	0		0		0	
14	7/13/2012 14:09	0		0		0	
15	7/13/2012 14:10	0		0		0	
16	7/13/2012 14:11	0		0		0	
17	7/13/2012 14:12	0		0		0	
18	7/13/2012 14:13	0		0		0	
19	7/13/2012 14:14	0		0		0	
20	7/13/2012 14:15	0		0		0	
21	7/13/2012 14:16	0		0		0	
22	7/13/2012 14:17	0		0		0	
23	7/13/2012 14:18	0		0		0	
24	7/13/2012 14:19	0		0		0	
25	7/13/2012 14:20	0		0		0	
26	7/13/2012 14:21	0		0		0	
27	7/13/2012 14:22	0		0		0	
28	7/13/2012 14:23	0		0		0	
29	7/13/2012 14:24	0		0		0.3	
30	7/13/2012 14:25	0		0		0	
31	7/13/2012 14:26	0		0		0	
32	7/13/2012 14:27	0		0		0	
33	7/13/2012 14:28	0		0		0	
34	7/13/2012 14:29	0		0		0	
35	7/13/2012 14:30	0		0		0	
36	7/13/2012 14:31	0		0		0	
37	7/13/2012 14:32	0		0		0	
38	7/13/2012 14:33	0		0		0	
39	7/13/2012 14:34	0		0		0	
40	7/13/2012 14:35	0		0		0	
41	7/13/2012 14:36	0		0		0	
42	7/13/2012 14:37	0		0		0	
43	7/13/2012 14:38	0		0		0	
44	7/13/2012 14:39	0		0		0	
45	7/13/2012 14:40	0		0		0	
46	7/13/2012 14:41	0		0		0	
47	7/13/2012 14:42	0		0		0	
48	7/13/2012 14:43	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005302
User ID: 00000001 Site ID: 00000118
Data Points: 134 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/13/2012 12:12

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/13/2012 13:36	0		0		0	
2	7/13/2012 13:37	0		0		0	
3	7/13/2012 13:38	0		0		0	
4	7/13/2012 13:39	0		0		0	
5	7/13/2012 13:40	0		0		0	
6	7/13/2012 13:41	0		0		0	
7	7/13/2012 13:42	0		0		0	
8	7/13/2012 13:43	0		0		0	
9	7/13/2012 13:44	0		0		0	
10	7/13/2012 13:45	0		0		0	
11	7/13/2012 13:46	0		0		0	
12	7/13/2012 13:47	0		0		0	
13	7/13/2012 13:48	0		0		0	
14	7/13/2012 13:49	0		0		0	
15	7/13/2012 13:50	0		0		0	
16	7/13/2012 13:51	0		0		0	
17	7/13/2012 13:52	0		0		0	
18	7/13/2012 13:53	0		0		0	
19	7/13/2012 13:54	0		0		0	
20	7/13/2012 13:55	0		0		0	
21	7/13/2012 13:56	0		0		0	
22	7/13/2012 13:57	0		0		0	
23	7/13/2012 13:58	0		0		0	
24	7/13/2012 13:59	0		0		0	
25	7/13/2012 14:00	0		0		0	
26	7/13/2012 14:01	0		0		0	
27	7/13/2012 14:02	0		0		0	
28	7/13/2012 14:03	0		0		0	
29	7/13/2012 14:04	0		0		0	
30	7/13/2012 14:05	0		0		0	
31	7/13/2012 14:06	0		0		0	
32	7/13/2012 14:07	0		0		0	
33	7/13/2012 14:08	0		0		0	
34	7/13/2012 14:09	0		0		0	
35	7/13/2012 14:10	0		0		0	
36	7/13/2012 14:11	0		0		0	
37	7/13/2012 14:12	0		0		0	
38	7/13/2012 14:13	0		0		0	
39	7/13/2012 14:14	0		0		0	
40	7/13/2012 14:15	0		0		0	
41	7/13/2012 14:16	0		0		0	
42	7/13/2012 14:17	0		0		0	
43	7/13/2012 14:18	0		0		0	
44	7/13/2012 14:19	0		0		0	
45	7/13/2012 14:20	0		0		0	
46	7/13/2012 14:21	0		0		0	
47	7/13/2012 14:22	0		0		0	
48	7/13/2012 14:23	0		0		0	
49	7/13/2012 14:24	0		0		0	
50	7/13/2012 14:25	0		0		0	
51	7/13/2012 14:26	0		0		0	
52	7/13/2012 14:27	0		0		0	
53	7/13/2012 14:28	0		0		0	
54	7/13/2012 14:29	0		0		0	
55	7/13/2012 14:30	0		0		0	
56	7/13/2012 14:31	0		0		0	
57	7/13/2012 14:32	0		0		0	
58	7/13/2012 14:33	0		0		0	
59	7/13/2012 14:34	0		0		0	
60	7/13/2012 14:35	0		0		0	
61	7/13/2012 14:36	0		0		0	
62	7/13/2012 14:37	0		0		0	
63	7/13/2012 14:38	0		0		0	
64	7/13/2012 14:39	0		0		0	
65	7/13/2012 14:40	0		0		0	
66	7/13/2012 14:41	0		0		0	
67	7/13/2012 14:42	0		0		0	
68	7/13/2012 14:43	0		0		0	

COMPILED

DIFFERENCE	Comments
0	Pre-clearance of SB-31, calibrating upwind PID
0	Pre-clearance of SB-31, calibrating upwind PID
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0	SAA, downwind battlery low
0	SAA, downwind battlery low
0	SAA, downwind battlery low
0	SAA, downwind battlery low
0	SAA, downwind battlery low
0	SAA, downwind battlery low
0	SAA, downwind battlery low

49	7/13/2012 14:44	0	0	0	69	7/13/2012 14:44	0	0	0	0	SAA, downwind battlery low
50	7/13/2012 14:45	0	0	0	70	7/13/2012 14:45	0	0	0	0	SAA, downwind battlery low
51	7/13/2012 14:46	0	0	0	71	7/13/2012 14:46	0	0	0	0	SAA, downwind battlery low
52	7/13/2012 14:47	0	0	0	72	7/13/2012 14:47	0	0	0	0	SAA, downwind battlery low
53	7/13/2012 14:48	0	0	0	73	7/13/2012 14:48	0	0	0	0	SAA, downwind battlery low
54	7/13/2012 14:49	0	0	0	74	7/13/2012 14:49	0	0	0	0	SAA, downwind battlery low
55	7/13/2012 14:50	0	0	0	75	7/13/2012 14:50	0	0	0	0	SAA, downwind battlery low
56	7/13/2012 14:51	0	0	0	76	7/13/2012 14:51	0	0	0	0	SAA, downwind battlery low
57	7/13/2012 14:52	0	0	0	77	7/13/2012 14:52	0	0	0	0	SAA, downwind battlery low
58	7/13/2012 14:53	0	0	0	78	7/13/2012 14:53	0	0	0	0	SAA, downwind battlery low
59	7/13/2012 14:54	0	0	0	79	7/13/2012 14:54	0	0	0	0	SAA, downwind battlery low
60	7/13/2012 14:55	0	0	0	80	7/13/2012 14:55	0	0	0	0	SAA, downwind battlery low
61	7/13/2012 14:56	0	0	0	81	7/13/2012 14:56	0	0	0	0	SAA, downwind battlery low
62	7/13/2012 14:57	0	0	0	82	7/13/2012 14:57	0	0	0	0	SAA, downwind battlery low
63	7/13/2012 14:58	0	0	0	83	7/13/2012 14:58	0	0	0	0	SAA, downwind battlery low
64	7/13/2012 14:59	0	0	0	84	7/13/2012 14:59	0	0	0	0	SAA, downwind battlery low
65	7/13/2012 15:00	0	0	0	85	7/13/2012 15:00	0	0	0	0	SAA, downwind battlery low
66	7/13/2012 15:01	0	0	0	86	7/13/2012 15:01	0	0	0	0	SAA, downwind battlery low
67	7/13/2012 15:02	0	0	0	87	7/13/2012 15:02	0	0	0	0	SAA, downwind battlery low
68	7/13/2012 15:03	0	0	0	88	7/13/2012 15:03	0	0	0	0	SAA, downwind battlery low
69	7/13/2012 15:04	0	0	0	89	7/13/2012 15:04	0	0	0	0	SAA, downwind battlery low
70	7/13/2012 15:05	0	0	0	90	7/13/2012 15:05	0	0	0	0	SAA, downwind battlery low
71	7/13/2012 15:06	0	0	0	91	7/13/2012 15:06	0	0	0	0	SAA, downwind battlery low
72	7/13/2012 15:07	0	0	0	92	7/13/2012 15:07	0	0	0	0	SAA, downwind battlery low
73	7/13/2012 15:08	0	0	0	93	7/13/2012 15:08	0	0	0	0	SAA, downwind battlery low
74	7/13/2012 15:09	0	0	0	94	7/13/2012 15:09	0	0	0	0	SAA, downwind battlery low
75	7/13/2012 15:10	0	0	0	95	7/13/2012 15:10	0	0	0	0	SAA, downwind battlery low
76	7/13/2012 15:11	0	0	0	96	7/13/2012 15:11	0	0	0	0	SAA, downwind battlery low
77	7/13/2012 15:12	0	0	0	97	7/13/2012 15:12	0	0	0	0	SAA, downwind battlery low
78	7/13/2012 15:13	0	0	0	98	7/13/2012 15:13	0	0	0	0	SAA, downwind battlery low
79	7/13/2012 15:14	0	0	0	99	7/13/2012 15:14	0	0	0	0	SAA, downwind battlery low
80	7/13/2012 15:15	0	0	0	100	7/13/2012 15:15	0	0	0	0	SAA, downwind battlery low
81	7/13/2012 15:16	0	0	0	101	7/13/2012 15:16	0	0	0	0	SAA, downwind battlery low
82	7/13/2012 15:17	0	0	0	102	7/13/2012 15:17	0	0	0	0	SAA, downwind battlery low
83	7/13/2012 15:18	0	0	0	103	7/13/2012 15:18	0	0	0	0	SAA, downwind battlery low
84	7/13/2012 15:19	0	0	0	104	7/13/2012 15:19	0	0	0	0	SAA, downwind battlery low
85	7/13/2012 15:20	0	0	0	105	7/13/2012 15:20	0	0	0	0	SAA, downwind battlery low
86	7/13/2012 15:21	0	0	0	106	7/13/2012 15:21	0	0	0	0	SAA, downwind battlery low
87	7/13/2012 15:22	0	0	0	107	7/13/2012 15:22	0	0	0	0	SAA, downwind battlery low
88	7/13/2012 15:23	0	0	0	108	7/13/2012 15:23	0	0	0	0	SAA, downwind battlery low
89	7/13/2012 15:24	0	0	0	109	7/13/2012 15:24	0	0	0	0	SAA, downwind battlery low
90	7/13/2012 15:25	0	0	0	110	7/13/2012 15:25	0	0	0	0	SAA, downwind battlery low
91	7/13/2012 15:26	0	0	0	111	7/13/2012 15:26	0	0	0	0	SAA, downwind battlery low
92	7/13/2012 15:27	0	0	0	112	7/13/2012 15:27	0	0	0	0	SAA, downwind battlery low
93	7/13/2012 15:28	0	0	0	113	7/13/2012 15:28	0	0	0	0	SAA, downwind battlery low
94	7/13/2012 15:29	0	0	0	114	7/13/2012 15:29	0	0	0	0	SAA, downwind battlery low
95	7/13/2012 15:30	0	0	0	115	7/13/2012 15:30	0	0	0	0	SAA, downwind battlery low
96	7/13/2012 15:31	0	0	0	116	7/13/2012 15:31	0	0	0	0	SAA, downwind battlery low
97	7/13/2012 15:32	0	0	0	117	7/13/2012 15:32	0	0	0	0	SAA, downwind battlery low
98	7/13/2012 15:33	0	0	0	118	7/13/2012 15:33	0	0	0	0	SAA, downwind battlery low
99	7/13/2012 15:34	0	0	0	119	7/13/2012 15:34	0	0	0	0	SAA, downwind battlery low
100	7/13/2012 15:35	0	0	0	120	7/13/2012 15:35	0	0	0	0	SAA, downwind battlery low
101	7/13/2012 15:36	0	0	0	121	7/13/2012 15:36	0	0	0	0	SAA, downwind battlery low
102	7/13/2012 15:37	0	0	0	122	7/13/2012 15:37	0	0	0	0	SAA, downwind battlery low
103	7/13/2012 15:38	0	0	0	123	7/13/2012 15:38	0	0	0	0	SAA, downwind battlery low
104	7/13/2012 15:39	0	0	0	124	7/13/2012 15:39	0	0	0	0	SAA, downwind battlery low
105	7/13/2012 15:40	0	0	0	125	7/13/2012 15:40	0	0	0	0	SAA, downwind battlery low
106	7/13/2012 15:41	0	0	0	126	7/13/2012 15:41	0	0	0	0	SAA, downwind battlery low
107	7/13/2012 15:42	0	0	0	127	7/13/2012 15:42	0	0	0	0	SAA, downwind battlery low
108	7/13/2012 15:43	0	0	0	128	7/13/2012 15:43	0	0	0	0	SAA, downwind battlery low
109	7/13/2012 15:44	0	0	0	129	7/13/2012 15:44	0	0	0	0	SAA, downwind battlery low
110	7/13/2012 15:45	0	0	0	130	7/13/2012 15:45	0	0	0	0	SAA, downwind battlery low
111	7/13/2012 15:46	0	0	0	131	7/13/2012 15:46	0	0	0	0	SAA, downwind battlery low
112	7/13/2012 15:47	0	0	0	132	7/13/2012 15:47	0	0	0	0	SAA, downwind battlery low
113	7/13/2012 15:48	0	0	0	133	7/13/2012 15:48	0	0	0	0	SAA, downwind battlery low
114	7/13/2012 15:49	0	0	0	134	7/13/2012 15:49	0	0	0	0	SAA, downwind battlery low
115	7/13/2012 15:50	0	0	0						0	SAA, downwind battlery low
116	7/13/2012 15:51	0	0	0						0	SAA, downwind battlery low
117	7/13/2012 15:52	0	0	0						0	SAA, downwind battlery low
118	7/13/2012 15:53	0	0	0						0	SAA, downwind battlery low

indicates high reading
indicates high reading with exceedance

activity: advancement of sb-31 and sb-20j

Upwind

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000136
Data Points: 181 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/14/2012 08:53

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/14/2012 8:55	1.2		1.6		2.1	
2	7/14/2012 8:56	0.8		0.9		1.2	
3	7/14/2012 8:57	0.6		0.6		0.8	
4	7/14/2012 8:58	0.5		0.5		0.6	
5	7/14/2012 8:59	0.4		0.4		0.5	
6	7/14/2012 9:00	0.3		0.3		0.4	
7	7/14/2012 9:01	0.3		0.3		0.4	
8	7/14/2012 9:02	0.3		0.3		0.3	
9	7/14/2012 9:03	0.3		0.3		0.3	
10	7/14/2012 9:04	0.3		0.3		0.3	
11	7/14/2012 9:05	0.3		0.3		0.4	
12	7/14/2012 9:06	0.3		0.3		0.3	
13	7/14/2012 9:07	0.3		0.3		0.3	
14	7/14/2012 9:08	0.3		0.3		0.4	
15	7/14/2012 9:09	0.3		0.3		0.3	
16	7/14/2012 9:10	0.3		0.3		0.6	
17	7/14/2012 9:11	0.3		0.3		0.6	
18	7/14/2012 9:12	0.3		0.3		0.3	
19	7/14/2012 9:13	0.3		0.3		0.4	
20	7/14/2012 9:14	0.3		0.3		0.5	
21	7/14/2012 9:15	0.3		0.3		0.4	
22	7/14/2012 9:16	0.3		0.3		0.4	
23	7/14/2012 9:17	0.3		0.3		0.4	
24	7/14/2012 9:18	0.3		0.3		0.4	
25	7/14/2012 9:19	0.3		0.3		0.4	
26	7/14/2012 9:20	0.3		0.3		0.4	
27	7/14/2012 9:21	0.3		0.3		0.4	
28	7/14/2012 9:22	0.3		0.3		0.4	
29	7/14/2012 9:23	0.3		0.3		0.4	
30	7/14/2012 9:24	0.3		0.3		0.4	
31	7/14/2012 9:25	0.3		0.3		0.4	
32	7/14/2012 9:26	0.3		0.3		0.4	
33	7/14/2012 9:27	0.3		0.3		0.4	
34	7/14/2012 9:28	0.3		0.3		0.4	
35	7/14/2012 9:29	0.4		0.4		0.4	
36	7/14/2012 9:30	0.4		0.4		0.4	
37	7/14/2012 9:31	0.4		0.4		0.4	
38	7/14/2012 9:32	0.4		0.4		0.4	
39	7/14/2012 9:33	0.4		0.4		0.4	
40	7/14/2012 9:34	0.4		0.4		0.4	
41	7/14/2012 9:35	0.4		0.4		0.4	
42	7/14/2012 9:36	0.4		0.4		0.5	
43	7/14/2012 9:37	0.4		0.4		0.5	
44	7/14/2012 9:38	0.4		0.4		0.5	
45	7/14/2012 9:39	0.4		0.4		0.5	
46	7/14/2012 9:40	0.4		0.4		0.5	
47	7/14/2012 9:41	0.4		0.4		0.5	
48	7/14/2012 9:42	0.4		0.4		0.5	
49	7/14/2012 9:43	0.4		0.4		0.5	
50	7/14/2012 9:44	0.5		0.5		0.5	
51	7/14/2012 9:45	0.5		0.5		0.5	
52	7/14/2012 9:46	0.5		0.5		0.5	
53	7/14/2012 9:47	0.5		0.5		0.5	
54	7/14/2012 9:48	0.5		0.5		0.5	
55	7/14/2012 9:49	0.5		0.5		0.5	
56	7/14/2012 9:50	0.5		0.5		0.5	
57	7/14/2012 9:51	0.5		0.5		0.6	
58	7/14/2012 9:52	0.5		0.5		0.5	
59	7/14/2012 9:53	0.5		0.5		0.5	
60	7/14/2012 9:54	0.5		0.5		0.5	
61	7/14/2012 9:55	0.5		0.5		0.5	
62	7/14/2012 9:56	0.5		0.5		0.5	
63	7/14/2012 9:57	0.5		0.5		0.5	
64	7/14/2012 9:58	0.5		0.5		0.5	
65	7/14/2012 9:59	0.5		0.5		0.5	

Downwind

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005302
User ID: 00000001 Site ID: 00000120
Data Points: 169 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/14/2012 09:00

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/14/2012 9:03	0		0		1.4	
2	7/14/2012 9:04	0		1.4		77.9	L
3	7/14/2012 9:05	0		0		0	
4	7/14/2012 9:06	0		0		0	
5	7/14/2012 9:07	0		0		0	
6	7/14/2012 9:08	0		0		0	
7	7/14/2012 9:09	0		0		0	
8	7/14/2012 9:10	0		0		0	
9	7/14/2012 9:11	0		0		0	
10	7/14/2012 9:12	0		0		0	
11	7/14/2012 9:13	0		0		0	
12	7/14/2012 9:14	0		0		0	
13	7/14/2012 9:15	0		0		0	
14	7/14/2012 9:16	0		0		0	
15	7/14/2012 9:17	0		0		0	
16	7/14/2012 9:18	0		0		0	
17	7/14/2012 9:19	0		0		0	
18	7/14/2012 9:20	0		0		0	
19	7/14/2012 9:21	0		0		0	
20	7/14/2012 9:22	0		0		0	
21	7/14/2012 9:23	0		0		0	
22	7/14/2012 9:24	0		0		0	
23	7/14/2012 9:25	0		0		0	
24	7/14/2012 9:26	0		0		0	
25	7/14/2012 9:27	0		0		0	
26	7/14/2012 9:28	0		0		0	
27	7/14/2012 9:29	0		0		0	
28	7/14/2012 9:30	0		0		0	
29	7/14/2012 9:31	0		0		0	
30	7/14/2012 9:32	0		0		0	
31	7/14/2012 9:33	0		0		0	
32	7/14/2012 9:34	0		0		0	
33	7/14/2012 9:35	0		0		0	
34	7/14/2012 9:36	0		0		0	
35	7/14/2012 9:37	0		0		0	
36	7/14/2012 9:38	0		0		0	
37	7/14/2012 9:39	0		0		0	
38	7/14/2012 9:40	0		0		0	
39	7/14/2012 9:41	0		0		0	
40	7/14/2012 9:42	0		0		0	
41	7/14/2012 9:43	0		0		0	
42	7/14/2012 9:44	0		0		0	
43	7/14/2012 9:45	0		0		0	
44	7/14/2012 9:46	0		0		0	
45	7/14/2012 9:47	0		0		0	
46	7/14/2012 9:48	0		0		0	
47	7/14/2012 9:49	0		0		0	
48	7/14/2012 9:50	0		0		0	
49	7/14/2012 9:51	0		0		0	
50	7/14/2012 9:52	0		0		0	
51	7/14/2012 9:53	0		0		0	
52	7/14/2012 9:54	0		0		0	
53	7/14/2012 9:55	0		0		0	
54	7/14/2012 9:56	0		0		0	
55	7/14/2012 9:57	0		0		0	
56	7/14/2012 9:58	0		0		0	
57	7/14/2012 9:59	0		0		0	

Compiled

Difference	Comments
-2.1	Drilling SB-31, calibrating downwind PID
-1.2	Drilling SB-31, calibrating downwind PID
-0.8	Drilling SB-31, calibrating downwind PID
-0.6	Drilling SB-31, calibrating downwind PID
-0.5	Drilling SB-31, calibrating downwind PID
-0.4	Drilling SB-31, calibrating downwind PID
-0.4	Drilling SB-31, calibrating downwind PID
-0.3	Drilling SB-31
-0.3	Drilling SB-31
1.1	Drilling SB-31, bump test after calibration
-0.4	Drilling SB-31
-0.3	Drilling SB-31
-0.3	Drilling SB-31
-0.4	Drilling SB-31
-0.3	Drilling SB-31
-0.6	Drilling SB-31
-0.6	Drilling SB-31
-0.3	Drilling SB-31
-0.4	Drilling SB-31
-0.5	Drilling SB-31
-0.4	Drilling SB-31
-0.4	Drilling SB-31
-0.4

66	7/14/2012 10:00	0.5	0.5	0.5	58	7/14/2012 10:00	0	0	0	-0.5	Drilling SB-31
67	7/14/2012 10:01	0.5	0.5	0.5	59	7/14/2012 10:01	0	0	0	-0.5	Drilling SB-31
68	7/14/2012 10:02	0.5	0.5	0.5	60	7/14/2012 10:02	0	0	0	-0.5	Drilling SB-31
69	7/14/2012 10:03	0.5	0.5	0.6	61	7/14/2012 10:03	0	0	0	-0.6	Drilling SB-31
70	7/14/2012 10:04	0.5	0.5	0.6	62	7/14/2012 10:04	0	0	0	-0.6	Drilling SB-31
71	7/14/2012 10:05	0.5	0.5	0.6	63	7/14/2012 10:05	0	0	0	-0.6	Drilling SB-31
72	7/14/2012 10:06	0.5	0.5	0.6	64	7/14/2012 10:06	0	0	0	-0.6	Drilling SB-31
73	7/14/2012 10:07	0.5	0.5	0.6	65	7/14/2012 10:07	0	0	0	-0.6	Drilling SB-31
74	7/14/2012 10:08	0.5	0.5	0.6	66	7/14/2012 10:08	0	0	0	-0.6	Drilling SB-31
75	7/14/2012 10:09	0.5	0.5	0.6	67	7/14/2012 10:09	0	0	0	-0.6	Drilling SB-31
76	7/14/2012 10:10	0.5	0.5	0.6	68	7/14/2012 10:10	0	0	0	-0.6	Drilling SB-31
77	7/14/2012 10:11	0.5	0.5	0.6	69	7/14/2012 10:11	0	0	0	-0.6	Drilling SB-31
78	7/14/2012 10:12	0.5	0.5	0.6	70	7/14/2012 10:12	0	0	0	-0.6	Drilling SB-31
79	7/14/2012 10:13	0.5	0.5	0.6	71	7/14/2012 10:13	0	0	0	-0.6	Drilling SB-31
80	7/14/2012 10:14	0.6	0.6	0.7	72	7/14/2012 10:14	0	0	0	-0.7	Drilling SB-31
81	7/14/2012 10:15	0.6	0.6	0.6	73	7/14/2012 10:15	0	0	0	-0.6	Drilling SB-31
82	7/14/2012 10:16	0.6	0.6	0.6	74	7/14/2012 10:16	0	0	0	-0.6	Drilling SB-31
83	7/14/2012 10:17	0.5	0.5	0.6	75	7/14/2012 10:17	0	0	0	-0.6	Drilling SB-31
84	7/14/2012 10:18	0.5	0.5	0.6	76	7/14/2012 10:18	0	0	0	-0.6	Drilling SB-31
85	7/14/2012 10:19	0.5	0.5	0.6	77	7/14/2012 10:19	0	0	0	-0.6	Drilling SB-31
86	7/14/2012 10:20	0.5	0.5	0.6	78	7/14/2012 10:20	0	0	0	-0.6	Drilling SB-31
87	7/14/2012 10:21	0.5	0.5	0.6	79	7/14/2012 10:21	0	0	0	-0.6	Drilling SB-31
88	7/14/2012 10:22	0.5	0.5	0.5	80	7/14/2012 10:22	0	0	0	-0.5	Drilling SB-31
89	7/14/2012 10:23	0.5	0.5	0.6	81	7/14/2012 10:23	0	0	0	-0.6	Drilling SB-31
90	7/14/2012 10:24	0.5	0.5	0.5	82	7/14/2012 10:24	0	0	0	-0.5	Drilling SB-31
91	7/14/2012 10:25	0.5	0.5	0.5	83	7/14/2012 10:25	0	0	0	-0.5	Drilling SB-31
92	7/14/2012 10:26	0.5	0.5	0.5	84	7/14/2012 10:26	0	0	0	-0.5	Drilling SB-31
93	7/14/2012 10:27	0.5	0.5	0.5	85	7/14/2012 10:27	0	0	0	-0.5	Drilling SB-31
94	7/14/2012 10:28	0.5	0.5	0.5	86	7/14/2012 10:28	0	0	0	-0.5	Drilling SB-31
95	7/14/2012 10:29	0.5	0.5	0.5	87	7/14/2012 10:29	0	0	0	-0.5	Drilling SB-31
96	7/14/2012 10:30	0.5	0.5	0.5	88	7/14/2012 10:30	0	0	0	-0.5	Drilling SB-31
97	7/14/2012 10:31	0.5	0.5	0.5	89	7/14/2012 10:31	0	0	0	-0.5	Drilling SB-31
98	7/14/2012 10:32	0.5	0.5	0.5	90	7/14/2012 10:32	0	0	0	-0.5	Drilling SB-31
99	7/14/2012 10:33	0.5	0.5	0.5	91	7/14/2012 10:33	0	0	0	-0.5	Drilling SB-31
100	7/14/2012 10:34	0.5	0.5	0.5	92	7/14/2012 10:34	0	0	0	-0.5	Drilling SB-31
101	7/14/2012 10:35	0.5	0.5	0.5	93	7/14/2012 10:35	0	0	0	-0.5	Drilling SB-31
102	7/14/2012 10:36	0.5	0.5	0.5	94	7/14/2012 10:36	0	0	0	-0.5	Drilling SB-31
103	7/14/2012 10:37	0.5	0.5	0.5	95	7/14/2012 10:37	0	0	0	-0.5	Drilling SB-31
104	7/14/2012 10:38	0.5	0.5	0.5	96	7/14/2012 10:38	0	0	0	-0.5	Drilling SB-31
105	7/14/2012 10:39	0.5	0.5	0.5	97	7/14/2012 10:39	0	0	0	-0.5	Drilling SB-31
106	7/14/2012 10:40	0.5	0.5	0.5	98	7/14/2012 10:40	0	0	0	-0.5	Drilling SB-31
107	7/14/2012 10:41	0.5	0.5	0.5	99	7/14/2012 10:41	0	0	0	-0.5	Drilling SB-31
108	7/14/2012 10:42	0.5	0.5	0.5	100	7/14/2012 10:42	0	0	0	-0.5	Drilling SB-31
109	7/14/2012 10:43	0.5	0.5	0.5	101	7/14/2012 10:43	0	0	0	-0.5	Drilling SB-31
110	7/14/2012 10:44	0.5	0.5	0.5	102	7/14/2012 10:44	0	0	0	-0.5	Drilling SB-31
111	7/14/2012 10:45	0.5	0.5	0.5	103	7/14/2012 10:45	0	0	0	-0.5	Drilling SB-31
112	7/14/2012 10:46	0.5	0.5	0.5	104	7/14/2012 10:46	0	0	0	-0.5	Drilling SB-31
113	7/14/2012 10:47	0.5	0.5	0.5	105	7/14/2012 10:47	0	0	0	-0.5	Drilling SB-31
114	7/14/2012 10:48	0.5	0.5	0.5	106	7/14/2012 10:48	0	0	0	-0.5	Drilling SB-31
115	7/14/2012 10:49	0.5	0.5	0.5	107	7/14/2012 10:49	0	0	0	-0.5	Drilling SB-31
116	7/14/2012 10:50	0.5	0.5	0.5	108	7/14/2012 10:50	0	0	0	-0.5	Drilling SB-31
117	7/14/2012 10:51	0.5	0.5	0.5	109	7/14/2012 10:51	0	0	0	-0.5	Drilling SB-31
118	7/14/2012 10:52	0.5	0.5	0.5	110	7/14/2012 10:52	0	0	0	-0.5	Drilling SB-31
119	7/14/2012 10:53	0.5	0.5	0.5	111	7/14/2012 10:53	0	0	0	-0.5	Drilling SB-31
120	7/14/2012 10:54	0.5	0.5	0.5	112	7/14/2012 10:54	0	0	0	-0.5	Drilling SB-31
121	7/14/2012 10:55	0.5	0.5	0.5	113	7/14/2012 10:55	0	0	0	-0.5	Drilling SB-31
122	7/14/2012 10:56	0.5	0.5	0.5	114	7/14/2012 10:56	0	0	0	-0.5	Drilling SB-31
123	7/14/2012 10:57	0.5	0.5	0.5	115	7/14/2012 10:57	0	0	0	-0.5	Drilling SB-31
124	7/14/2012 10:58	0.4	0.4	0.5	116	7/14/2012 10:58	0	0	0	-0.5	Drilling SB-31
125	7/14/2012 10:59	0.4	0.4	0.5	117	7/14/2012 10:59	0	0	0	-0.5	Drilling SB-31
126	7/14/2012 11:00	0.4	0.4	0.5	118	7/14/2012 11:00	0	0	0	-0.5	Drilling SB-31
127	7/14/2012 11:01	0.4	0.4	0.5	119	7/14/2012 11:01	0	0	0	-0.5	Drilling SB-31
128	7/14/2012 11:02	0.4	0.4	0.5	120	7/14/2012 11:02	0	0	0	-0.5	Drilling SB-31
129	7/14/2012 11:03	0.4	0.4	0.5	121	7/14/2012 11:03	0	0	0	-0.5	Drilling SB-31
130	7/14/2012 11:04	0.4	0.4	0.5	122	7/14/2012 11:04	0	0	0	-0.5	Drilling SB-31
131	7/14/2012 11:05	0.4	0.4	0.5	123	7/14/2012 11:05	0	0	0	-0.5	Drilling SB-31
132	7/14/2012 11:06	0.4	0.4	0.5	124	7/14/2012 11:06	0	0	0	-0.5	Drilling SB-31
133	7/14/2012 11:07	0.4	0.4	0.5	125	7/14/2012 11:07	0	0	0	-0.5	Drilling SB-31
134	7/14/2012 11:08	0.4	0.4	0.5	126	7/14/2012 11:08	0	0	0	-0.5	Drilling SB-31
135	7/14/2012 11:09	0.5	0.5	0.8	127	7/14/2012 11:09	0	0	0	-0.8	Drilling SB-31
136	7/14/2012 11:10	0.5	0.5	0.5	128	7/14/2012 11:10	0	0	0	-0.5	Drilling SB-31
137	7/14/2012 11:11	0.5	0.5	0.5	129	7/14/2012 11:11	0	0	0	-0.5	Drilling SB-31
138	7/14/2012 11:12	0.5	0.5	0.5	130	7/14/2012 11:12	0	0	0	-0.5	Drilling SB-31
139	7/14/2012 11:13	0.5	0.5	0.5	131	7/14/2012 11:13	0	0	0	-0.5	Drilling SB-31
140	7/14/2012 11:14	0.5	0.5	0.5	132	7/14/2012 11:14	0	0	0	-0.5	Drilling SB-31
141	7/14/2012 11:15	0.5	0.5	0.5	133	7/14/2012 11:15	0	0	0	-0.5	Drilling SB-31
142	7/14/2012 11:16	0.5	0.5	0.6	134	7/14/2012 11:16	0	0	0	-0.6	Drilling SB-31
143	7/14/2012 11:17	0.5	0.5	0.5	135	7/14/2012 11:17	0	0	0	-0.5	Drilling SB-31
144	7/14/2012 11:18	0.5	0.5	0.5	136	7/14/2012 11:18	0	0	0	-0.5	Drilling SB-31

145	7/14/2012 11:19	0.5	0.5	0.5	137	7/14/2012 11:19	0	0	0	-0.5	Drilling SB-31
146	7/14/2012 11:20	0.5	0.5	0.5	138	7/14/2012 11:20	0	0	0	-0.5	Drilling SB-31
147	7/14/2012 11:21	0.5	0.5	0.5	139	7/14/2012 11:21	0	0	0	-0.5	Drilling SB-31
148	7/14/2012 11:22	0.5	0.5	0.5	140	7/14/2012 11:22	0	0	0	-0.5	Drilling SB-31
149	7/14/2012 11:23	0.5	0.5	0.5	141	7/14/2012 11:23	0	0	0	-0.5	Drilling SB-31
150	7/14/2012 11:24	0.5	0.5	0.5	142	7/14/2012 11:24	0	0	0	-0.5	Drilling SB-31
151	7/14/2012 11:25	0.5	0.5	0.5	143	7/14/2012 11:25	0	0	0	-0.5	Drilling SB-31
152	7/14/2012 11:26	0.5	0.5	0.5	144	7/14/2012 11:26	0	0	0	-0.5	Drilling SB-31
153	7/14/2012 11:27	0.5	0.5	0.5	145	7/14/2012 11:27	0	0	0	-0.5	Drilling SB-31
154	7/14/2012 11:28	0.5	0.5	0.5	146	7/14/2012 11:28	0	0	0	-0.5	Drilling SB-31
155	7/14/2012 11:29	0.5	0.5	0.5	147	7/14/2012 11:29	0	0	0	-0.5	Drilling SB-31
156	7/14/2012 11:30	0.4	0.4	0.5	148	7/14/2012 11:30	0	0	0	-0.5	Drilling SB-31
157	7/14/2012 11:31	0.4	0.4	0.5	149	7/14/2012 11:31	0	0	0	-0.5	Drilling SB-31
158	7/14/2012 11:32	0.4	0.4	0.5	150	7/14/2012 11:32	0	0	0	-0.5	Drilling SB-31
159	7/14/2012 11:33	0.5	0.5	0.5	151	7/14/2012 11:33	0	0	0	-0.5	Drilling SB-31
160	7/14/2012 11:34	0.5	0.5	0.5	152	7/14/2012 11:34	0	0	0	-0.5	Drilling SB-31
161	7/14/2012 11:35	0.4	0.4	0.5	153	7/14/2012 11:35	0	0	0	-0.5	Drilling SB-31
162	7/14/2012 11:36	0.4	0.4	0.5	154	7/14/2012 11:36	0	0	0	-0.5	Drilling SB-31
163	7/14/2012 11:37	0.4	0.4	0.5	155	7/14/2012 11:37	0	0	0	-0.5	Drilling SB-31
164	7/14/2012 11:38	0.4	0.4	0.5	156	7/14/2012 11:38	0	0	0	-0.5	Drilling SB-31
165	7/14/2012 11:39	0.5	0.5	0.5	157	7/14/2012 11:39	0	0	0	-0.5	Drilling SB-31
166	7/14/2012 11:40	0.5	0.5	0.5	158	7/14/2012 11:40	0	0	0	-0.5	Drilling SB-31
167	7/14/2012 11:41	0.5	0.5	0.6	159	7/14/2012 11:41	0	0	0	-0.6	Drilling SB-31
168	7/14/2012 11:42	0.5	0.5	0.5	160	7/14/2012 11:42	0	0	0	-0.5	Drilling SB-31
169	7/14/2012 11:43	0.5	0.5	0.6	161	7/14/2012 11:43	0	0	0	-0.6	Drilling SB-31
170	7/14/2012 11:44	0.5	0.5	0.5	162	7/14/2012 11:44	0	0	0	-0.5	Drilling SB-31
171	7/14/2012 11:45	0.5	0.5	0.5	163	7/14/2012 11:45	0	0	0	-0.5	Drilling SB-31
172	7/14/2012 11:46	0.5	0.5	0.5	164	7/14/2012 11:46	0	0	0	-0.5	Drilling SB-31
173	7/14/2012 11:47	0.5	0.5	0.5	165	7/14/2012 11:47	0	0	0	-0.5	Drilling SB-31
174	7/14/2012 11:48	0.5	0.5	0.5	166	7/14/2012 11:48	0	0	0	-0.5	Drilling SB-31
175	7/14/2012 11:49	0.5	0.5	0.5	167	7/14/2012 11:49	0	0	0	-0.5	Drilling SB-31
176	7/14/2012 11:50	0.5	0.5	0.5	168	7/14/2012 11:50	0	0	0	-0.5	Drilling SB-31
177	7/14/2012 11:51	0.5	0.5	0.5	169	7/14/2012 11:51	0	0	0	-0.5	Stopped Drilling SB-31
178	7/14/2012 11:52	0.5	0.5	0.5						-0.5	shutdown to move to SB-20 locatiom
179	7/14/2012 11:53	0.5	0.5	0.5						-0.5	shutdown to move to SB-20 locatiom
180	7/14/2012 11:54	0.5	0.5	0.5						-0.5	shutdown to move to SB-20 locatiom
181	7/14/2012 11:55	0.5	0.5	0.5						-0.5	shutdown to move to SB-20 locatiom
											shutdown to move to SB-20 locatiom
	move to SB-20J										shutdown to move to SB-20 locatiom
					1	7/14/2012 14:09	0	0	0	0	shutdown to move to SB-20 locatiom
					2	7/14/2012 14:10	0	0	0	0	shutdown to move to SB-20 locatiom
					3	7/14/2012 14:11	0	0	0	0	shutdown to move to SB-20 locatiom
					4	7/14/2012 14:12	0	0	0	0	shutdown to move to SB-20 locatiom
					5	7/14/2012 14:13	0	0	0	0	shutdown to move to SB-20 locatiom
					6	7/14/2012 14:14	0	0	0	0	shutdown to move to SB-20 locatiom
1	7/14/2012 14:15	0.6	0.6	0.6	7	7/14/2012 14:15	0	0	0	-0.6	shutdown to move to SB-20 locatiom
2	7/14/2012 14:16	0.5	0.5	0.6	8	7/14/2012 14:16	0	0	0	-0.5	shutdown to move to SB-20 locatiom
3	7/14/2012 14:17	0.5	0.5	0.6	9	7/14/2012 14:17	0	0	0	-0.5	shutdown to move to SB-20 locatiom
4	7/14/2012 14:18	0.5	0.6	0.7	10	7/14/2012 14:18	0	0	0	-0.6	shutdown to move to SB-20 locatiom
5	7/14/2012 14:19	0.6	0.6	0.7	11	7/14/2012 14:19	0	0	0	-0.6	shutdown to move to SB-20 locatiom
6	7/14/2012 14:20	0.6	0.6	0.7	12	7/14/2012 14:20	0	0	0	-0.6	shutdown to move to SB-20 locatiom
7	7/14/2012 14:21	0.6	0.6	0.7	13	7/14/2012 14:21	0	0	0	-0.6	shutdown to move to SB-20 locatiom
8	7/14/2012 14:22	0.6	0.6	0.7	14	7/14/2012 14:22	0	0	0	-0.6	Jackhammering SB-20
9	7/14/2012 14:23	0.6	0.6	0.7	15	7/14/2012 14:23	0	0	0	-0.6	Jackhammering SB-20
10	7/14/2012 14:24	0.6	0.6	0.7	16	7/14/2012 14:24	0	0	0	-0.6	Jackhammering SB-20
11	7/14/2012 14:25	0.6	0.6	0.7	17	7/14/2012 14:25	0	0	0	-0.6	Jackhammering SB-20
12	7/14/2012 14:26	0.7	0.7	0.8	18	7/14/2012 14:26	0	0	0	-0.7	Jackhammering SB-20
13	7/14/2012 14:27	0.7	0.7	0.8	19	7/14/2012 14:27	0	0	0	-0.7	Jackhammering SB-20
14	7/14/2012 14:28	0.7	0.7	0.8	20	7/14/2012 14:28	0	0	0	-0.7	Jackhammering SB-20
15	7/14/2012 14:29	0.7	0.7	0.7	21	7/14/2012 14:29	0	0	0	-0.7	Jackhammering SB-20
16	7/14/2012 14:30	0.7	0.7	0.7	22	7/14/2012 14:30	0	0	0	-0.7	Jackhammering SB-20
17	7/14/2012 14:31	0.7	0.7	0.8	23	7/14/2012 14:31	0	0	0	-0.7	Jackhammering SB-20
18	7/14/2012 14:32	0.6	0.6	0.7	24	7/14/2012 14:32	0	0	0	-0.6	Jackhammering SB-20
19	7/14/2012 14:33	0.7	0.7	0.7	25	7/14/2012 14:33	0	0	0	-0.7	Jackhammering SB-20
20	7/14/2012 14:34	0.7	0.7	0.8	26	7/14/2012 14:34	0	0	0	-0.7	Jackhammering SB-20
21	7/14/2012 14:35	0.7	0.7	0.8	27	7/14/2012 14:35	0	0	0	-0.7	Jackhammering SB-20
22	7/14/2012 14:36	0.7	0.7	0.8	28	7/14/2012 14:36	0	0	0	-0.7	Jackhammering SB-20
23	7/14/2012 14:37	0.7	0.7	0.8	29	7/14/2012 14:37	0	0	0	-0.7	Jackhammering SB-20
24	7/14/2012 14:38	0.7	0.7	0.8	30	7/14/2012 14:38	0	0	0	-0.7	Jackhammering SB-20
25	7/14/2012 14:39	0.7	0.7	0.8	31	7/14/2012 14:39	0	0	0	-0.7	Jackhammering SB-20
26	7/14/2012 14:40	0.7	0.7	0.8	32	7/14/2012 14:40	0	0	0	-0.7	Jackhammering SB-20
27	7/14/2012 14:41	0.7	0.7	0.8	33	7/14/2012 14:41	0	0	0	-0.7	Jackhammering SB-20
28	7/14/2012 14:42	0.7	0.7	0.8	34	7/14/2012 14:42	0	0	0	-0.7	Jackhammering SB-20
29	7/14/2012 14:43	0.7	0.7	0.8	35	7/14/2012 14:43	0	0	0	-0.7	Jackhammering SB-20
30	7/14/2012 14:44	0.7	0.7	0.8	36	7/14/2012 14:44	0	0	0	-0.7	Jackhammering SB-20
31	7/14/2012 14:45	0.7	0.7	0.8	37	7/14/2012 14:45	0	0	0	-0.7	Jackhammering SB-20
32	7/14/2012 14:46	0.7	0.7	0.7	38	7/14/2012 14:46	0	0	0	-0.7	Settig up around SB-20 location
33	7/14/2012 14:47	0.7	0.7	0.8	39	7/14/2012 14:47	0	0	0	-0.7	Settig up around SB-20 location
34	7/14/2012 14:48	0.7	0.7	0.8	40	7/14/2012 14:48	0	0	0	-0.7	Settig up around SB-20 location

35	7/14/2012 14:49	0.7	0.7	0.7	41	7/14/2012 14:49	0	0	0	-0.7	Settig up around SB-20 location
36	7/14/2012 14:50	0.6	0.6	0.7	42	7/14/2012 14:50	0	0	0	-0.6	Settig up around SB-20 location
37	7/14/2012 14:51	0.7	0.7	0.7	43	7/14/2012 14:51	0	0	0	-0.7	Settig up around SB-20 location
38	7/14/2012 14:52	0.7	0.7	0.7	44	7/14/2012 14:52	0	0	0	-0.7	Settig up around SB-20 location
39	7/14/2012 14:53	0.7	0.7	0.7	45	7/14/2012 14:53	0	0	0	-0.7	Settig up around SB-20 location
40	7/14/2012 14:54	0.7	0.7	0.7	46	7/14/2012 14:54	0	0	0	-0.7	Settig up around SB-20 location
41	7/14/2012 14:55	0.6	0.6	0.7	47	7/14/2012 14:55	0	0	0	-0.6	Settig up around SB-20 location
42	7/14/2012 14:56	0.6	0.6	0.7	48	7/14/2012 14:56	0	0	0	-0.6	Settig up around SB-20 location
43	7/14/2012 14:57	0.7	0.7	0.7	49	7/14/2012 14:57	0	0	0	-0.7	Settig up around SB-20 location
44	7/14/2012 14:58	0.7	0.7	0.8	50	7/14/2012 14:58	0	0	0	-0.7	Settig up around SB-20 location
45	7/14/2012 14:59	0.7	0.7	0.8	51	7/14/2012 14:59	0	0	0	-0.7	Settig up around SB-20 location
46	7/14/2012 15:00	0.7	0.7	0.8	52	7/14/2012 15:00	0	0	0	-0.7	Settig up around SB-20 location
47	7/14/2012 15:01	0.7	0.7	0.7	53	7/14/2012 15:01	0	0	0	-0.7	Pre-clearance of SB-20
48	7/14/2012 15:02	0.7	0.7	0.8	54	7/14/2012 15:02	0	0	0	-0.7	Pre-clearance of SB-20
49	7/14/2012 15:03	0.7	0.7	0.7	55	7/14/2012 15:03	0	0	0	-0.7	Pre-clearance of SB-20
50	7/14/2012 15:04	0.7	0.7	0.8	56	7/14/2012 15:04	0	0	0	-0.7	Pre-clearance of SB-20
51	7/14/2012 15:05	0.7	0.7	0.7	57	7/14/2012 15:05	0	0	0	-0.7	Pre-clearance of SB-20
52	7/14/2012 15:06	0.7	0.7	0.7	58	7/14/2012 15:06	0	0	0	-0.7	Pre-clearance of SB-20
53	7/14/2012 15:07	0.7	0.7	0.8	59	7/14/2012 15:07	0	0	0	-0.7	Pre-clearance of SB-20
54	7/14/2012 15:08	0.7	0.7	0.7	60	7/14/2012 15:08	0	0	0	-0.7	Pre-clearance of SB-20
55	7/14/2012 15:09	0.7	0.7	0.8	61	7/14/2012 15:09	0	0	0	-0.7	Pre-clearance of SB-20
56	7/14/2012 15:10	0.7	0.7	0.8	62	7/14/2012 15:10	0	0	0	-0.7	Pre-clearance of SB-20
57	7/14/2012 15:11	0.7	0.7	0.7	63	7/14/2012 15:11	0	0	0	-0.7	Pre-clearance of SB-20
58	7/14/2012 15:12	0.7	0.7	0.7	64	7/14/2012 15:12	0	0	0	-0.7	Pre-clearance of SB-20
59	7/14/2012 15:13	0.7	0.7	0.7	65	7/14/2012 15:13	0	0	0	-0.7	Pre-clearance of SB-20
60	7/14/2012 15:14	0.7	0.7	0.7	66	7/14/2012 15:14	0	0	0	-0.7	Pre-clearance of SB-20
61	7/14/2012 15:15	0.7	0.7	0.7	67	7/14/2012 15:15	0	0	0	-0.7	Drilling SB-20
62	7/14/2012 15:16	0.7	0.7	0.7	68	7/14/2012 15:16	0	0	0	-0.7	Drilling SB-20
63	7/14/2012 15:17	0.7	0.7	0.7	69	7/14/2012 15:17	0	0	0	-0.7	Drilling SB-20
64	7/14/2012 15:18	0.7	0.7	0.7	70	7/14/2012 15:18	0	0	0	-0.7	Drilling SB-20
65	7/14/2012 15:19	0.7	0.7	0.7	71	7/14/2012 15:19	0	0	0	-0.7	Drilling SB-20
66	7/14/2012 15:20	0.7	0.7	0.7	72	7/14/2012 15:20	0	0	0	-0.7	Drilling SB-20
67	7/14/2012 15:21	0.7	0.7	0.7	73	7/14/2012 15:21	0	0	0	-0.7	Drilling SB-20
68	7/14/2012 15:22	0.6	0.6	0.7	74	7/14/2012 15:22	0	0	0	-0.6	Drilling SB-20
69	7/14/2012 15:23	0.7	0.7	0.7	75	7/14/2012 15:23	0	0	0	-0.7	Drilling SB-20
70	7/14/2012 15:24	0.7	0.7	0.7	76	7/14/2012 15:24	0	0	0	-0.7	Drilling SB-20
71	7/14/2012 15:25	0.6	0.6	0.7	77	7/14/2012 15:25	0	0	0	-0.6	Drilling SB-20
72	7/14/2012 15:26	0.7	0.7	0.7	78	7/14/2012 15:26	0	0	0	-0.7	Drilling SB-20
73	7/14/2012 15:27	0.6	0.6	0.7	79	7/14/2012 15:27	0	0	0	-0.6	Drilling SB-20
74	7/14/2012 15:28	0.6	0.6	0.7	80	7/14/2012 15:28	0	0	0	-0.6	Drilling SB-20
75	7/14/2012 15:29	0.6	0.6	0.7	81	7/14/2012 15:29	0	0	0	-0.6	Drilling SB-20
76	7/14/2012 15:30	0.7	0.7	0.7	82	7/14/2012 15:30	0	0	0	-0.7	Drilling SB-20
77	7/14/2012 15:31	0.6	0.6	0.7	83	7/14/2012 15:31	0	0	0	-0.6	Drilling SB-20
78	7/14/2012 15:32	0.6	0.6	0.7	84	7/14/2012 15:32	0	0	0	-0.6	Drilling SB-20
79	7/14/2012 15:33	0.6	0.6	0.7	85	7/14/2012 15:33	0	0	0	-0.6	Drilling SB-20
80	7/14/2012 15:34	0.6	0.6	0.7	86	7/14/2012 15:34	0	0	0	-0.6	Drilling SB-20
81	7/14/2012 15:35	0.6	0.6	0.7	87	7/14/2012 15:35	0	0	0	-0.6	Drilling SB-20
82	7/14/2012 15:36	0.6	0.6	0.7	88	7/14/2012 15:36	0	0	0	-0.6	Drilling SB-20
83	7/14/2012 15:37	0.6	0.6	0.6	89	7/14/2012 15:37	0	0	0	-0.6	Drilling SB-20
84	7/14/2012 15:38	0.6	0.6	0.6	90	7/14/2012 15:38	0	0	0	-0.6	Drilling SB-20
85	7/14/2012 15:39	0.6	0.6	0.7	91	7/14/2012 15:39	0	0	0	-0.6	Drilling SB-20
86	7/14/2012 15:40	0.6	0.6	0.7	92	7/14/2012 15:40	0	0	0	-0.6	Drilling SB-20
87	7/14/2012 15:41	0.6	0.6	0.7	93	7/14/2012 15:41	0	0	0	-0.6	Drilling SB-20
88	7/14/2012 15:42	0.6	0.6	0.7	94	7/14/2012 15:42	0	0	0	-0.6	Drilling SB-20
89	7/14/2012 15:43	0.6	0.6	0.6	95	7/14/2012 15:43	0	0	0	-0.6	Drilling SB-20
90	7/14/2012 15:44	0.6	0.6	0.7	96	7/14/2012 15:44	0	0	0	-0.6	Drilling SB-20
91	7/14/2012 15:45	0.6	0.6	0.6	97	7/14/2012 15:45	0	0	0	-0.6	Drilling SB-20
92	7/14/2012 15:46	0.6	0.6	0.6	98	7/14/2012 15:46	0	0	0	-0.6	Drilling SB-20
93	7/14/2012 15:47	0.6	0.6	0.6	99	7/14/2012 15:47	0	0	0	-0.6	Drilling SB-20
94	7/14/2012 15:48	0.5	0.5	0.6	100	7/14/2012 15:48	0	0	0	-0.5	Drilling SB-20
95	7/14/2012 15:49	0.6	0.6	0.6	101	7/14/2012 15:49	0	0	0	-0.6	Drilling SB-20
96	7/14/2012 15:50	0.6	0.6	0.6	102	7/14/2012 15:50	0	0	0	-0.6	Drilling SB-20
97	7/14/2012 15:51	0.5	0.5	0.6	103	7/14/2012 15:51	0	0	0	-0.5	Drilling SB-20
98	7/14/2012 15:52	0.6	0.6	0.7	104	7/14/2012 15:52	0	0	0	-0.6	Drilling SB-20
99	7/14/2012 15:53	0.5	0.5	0.6	105	7/14/2012 15:53	0	0	0	-0.5	Drilling SB-20
100	7/14/2012 15:54	0.6	0.6	0.6	106	7/14/2012 15:54	0	0	0	-0.6	Drilling SB-20
101	7/14/2012 15:55	0.5	0.5	0.6	107	7/14/2012 15:55	0	0	0.8	-0.5	Drilling SB-20
102	7/14/2012 15:56	0.5	0.5	0.6	108	7/14/2012 15:56	0	0	0	-0.5	Drilling SB-20
103	7/14/2012 15:57	0.5	0.5	0.6	109	7/14/2012 15:57	0	0	0	-0.5	Drilling SB-20
104	7/14/2012 15:58	0.6	0.6	0.6	110	7/14/2012 15:58	0	0	0	-0.6	Drilling SB-20
105	7/14/2012 15:59	0.5	0.5	0.6	111	7/14/2012 15:59	0	0	0	-0.5	Drilling SB-20
106	7/14/2012 16:00	0.5	0.5	0.6	112	7/14/2012 16:00	0	0	0	-0.5	Drilling SB-20
107	7/14/2012 16:01	0.5	0.5	0.6	113	7/14/2012 16:01	0	0	0	-0.5	Drilling SB-20
108	7/14/2012 16:02	0.5	0.5	0.6	114	7/14/2012 16:02	0	0	0	-0.5	Drilling SB-20
109	7/14/2012 16:03	0.5	0.5	0.6	115	7/14/2012 16:03	0	0	0	-0.5	Drilling SB-20
110	7/14/2012 16:04	0.5	0.5	0.6	116	7/14/2012 16:04	0	3	51.3	2.5	Drilling SB-20
111	7/14/2012 16:05	0.5	0.5	0.6	117	7/14/2012 16:05	0	0	0	-0.5	Drilling SB-20
112	7/14/2012 16:06	0.5	0.5	0.6	118	7/14/2012 16:06	0	0	0	-0.5	Drilling SB-20
113	7/14/2012 16:07	0.5	0.5	0.6	119	7/14/2012 16:07	0	0	0	-0.5	Drilling SB-20

114	7/14/2012 16:08	0.5	0.5	0.6	120	7/14/2012 16:08	0	0	0	-0.5	Drilling SB-20
115	7/14/2012 16:09	0.5	0.5	0.6	121	7/14/2012 16:09	0	0	0	-0.5	Drilling SB-20
116	7/14/2012 16:10	0.5	0.5	0.6	122	7/14/2012 16:10	0	0	0	-0.5	Drilling SB-20
117	7/14/2012 16:11	0.5	0.5	0.6	123	7/14/2012 16:11	0	0	0	-0.5	Drilling SB-20
118	7/14/2012 16:12	0.5	0.5	0.6	124	7/14/2012 16:12	0	0	0	-0.5	Drilling SB-20
119	7/14/2012 16:13	0.5	0.5	0.6	125	7/14/2012 16:13	0	0	0	-0.5	Drilling SB-20
120	7/14/2012 16:14	0.5	0.5	0.6	126	7/14/2012 16:14	0	0	0	-0.5	Drilling SB-20
121	7/14/2012 16:15	0.5	0.5	0.6	127	7/14/2012 16:15	0	0	0	-0.5	Drilling SB-20
122	7/14/2012 16:16	0.5	0.5	0.6	128	7/14/2012 16:16	0	0	0	-0.5	Drilling SB-20
123	7/14/2012 16:17	0.5	0.5	0.6	129	7/14/2012 16:17	0	0	0	-0.5	Drilling SB-20
124	7/14/2012 16:18	0.5	0.5	0.6	130	7/14/2012 16:18	0	0	0	-0.5	Drilling SB-20
125	7/14/2012 16:19	0.5	0.5	0.6	131	7/14/2012 16:19	0	0	0	-0.5	Drilling SB-20
126	7/14/2012 16:20	0.5	0.5	0.6	132	7/14/2012 16:20	0	0	0	-0.5	Drilling SB-20
127	7/14/2012 16:21	0.5	0.5	0.6	133	7/14/2012 16:21	0	0	0	-0.5	Drilling SB-20
128	7/14/2012 16:22	0.5	0.5	0.6	134	7/14/2012 16:22	0	0	0	-0.5	Drilling SB-20
129	7/14/2012 16:23	0.5	0.5	0.6	135	7/14/2012 16:23	0	0	0	-0.5	Drilling SB-20
130	7/14/2012 16:24	0.5	0.5	0.6	136	7/14/2012 16:24	0	0	0	-0.5	Drilling SB-20
131	7/14/2012 16:25	0.5	0.5	0.6	137	7/14/2012 16:25	0	0	0	-0.5	Drilling SB-20
132	7/14/2012 16:26	0.5	0.5	0.6	138	7/14/2012 16:26	0	0	0.2	-0.5	Drilling SB-20
133	7/14/2012 16:27	0.5	0.5	0.6	139	7/14/2012 16:27	0	0	0.2	-0.5	Drilling SB-20
134	7/14/2012 16:28	0.5	0.5	0.6	140	7/14/2012 16:28	0	0	0	-0.5	Drilling SB-20
135	7/14/2012 16:29	0.5	0.5	0.6	141	7/14/2012 16:29	0	0	0	-0.5	Drilling SB-20
136	7/14/2012 16:30	0.5	0.5	0.6	142	7/14/2012 16:30	0	0	0	-0.5	Drilling SB-20
137	7/14/2012 16:31	0.5	0.5	0.6	143	7/14/2012 16:31	0	0	0	-0.5	Drilling SB-20
138	7/14/2012 16:32	0.5	0.5	0.6	144	7/14/2012 16:32	0	0	0	-0.5	Drilling SB-20
139	7/14/2012 16:33	0.5	0.5	0.6	145	7/14/2012 16:33	0	0	0	-0.5	Drilling SB-20
140	7/14/2012 16:34	0.5	0.5	0.6	146	7/14/2012 16:34	0	0	0	-0.5	Drilling SB-20
141	7/14/2012 16:35	0.5	0.5	0.6	147	7/14/2012 16:35	0	0	0	-0.5	Drilling SB-20
142	7/14/2012 16:36	0.5	0.5	0.6	148	7/14/2012 16:36	0	0	0	-0.5	Drilling SB-20
143	7/14/2012 16:37	0.5	0.5	0.6	149	7/14/2012 16:37	0	0	0	-0.5	Drilling SB-20
144	7/14/2012 16:38	0.5	0.5	0.6	150	7/14/2012 16:38	0	0	0	-0.5	Drilling SB-20
145	7/14/2012 16:39	0.5	0.5	0.5	151	7/14/2012 16:39	0	0	0	-0.5	Drilling SB-20
146	7/14/2012 16:40	0.5	0.5	0.5	152	7/14/2012 16:40	0	0	0	-0.5	Drilling SB-20
147	7/14/2012 16:41	0.5	0.5	0.6	153	7/14/2012 16:41	0	0	0.1	-0.5	Drilling SB-20
148	7/14/2012 16:42	0.5	0.5	0.6	154	7/14/2012 16:42	0	0	0	-0.5	Drilling SB-20
149	7/14/2012 16:43	0.5	0.5	0.6	155	7/14/2012 16:43	0	0	0	-0.5	Drilling SB-20
150	7/14/2012 16:44	0.5	0.5	0.5	156	7/14/2012 16:44	0	0	0	-0.5	Drilling SB-20
151	7/14/2012 16:45	0.5	0.5	0.6	157	7/14/2012 16:45	0	0	0	-0.5	Drilling SB-20
152	7/14/2012 16:46	0.5	0.5	0.6	158	7/14/2012 16:46	0	0	0	-0.5	Drilling SB-20
153	7/14/2012 16:47	0.5	0.5	0.6	159	7/14/2012 16:47	0	0	0	-0.5	Drilling SB-20
154	7/14/2012 16:48	0.5	0.5	0.6	160	7/14/2012 16:48	0	0	0	-0.5	Drilling SB-20
155	7/14/2012 16:49	0.5	0.5	0.6	161	7/14/2012 16:49	0	0	0	-0.5	Drilling SB-20
156	7/14/2012 16:50	0.5	0.5	0.6	162	7/14/2012 16:50	0	0	0	-0.5	Drilling SB-20
157	7/14/2012 16:51	0.5	0.5	0.6	163	7/14/2012 16:51	0	0	0	-0.5	Drilling SB-20
158	7/14/2012 16:52	0.5	0.5	0.6	164	7/14/2012 16:52	0	0	0	-0.5	Drilling SB-20
159	7/14/2012 16:53	0.5	0.5	0.6	165	7/14/2012 16:53	0	0	0	-0.5	Drilling SB-20
160	7/14/2012 16:54	0.5	0.5	0.6	166	7/14/2012 16:54	0	0	0	-0.5	Drilling SB-20
161	7/14/2012 16:55	0.5	0.5	0.6	167	7/14/2012 16:55	0	0	0	-0.5	Drilling SB-20
162	7/14/2012 16:56	0.5	0.5	0.6	168	7/14/2012 16:56	0	0	0	-0.5	Drilling SB-20
163	7/14/2012 16:57	0.5	0.5	0.6	169	7/14/2012 16:57	0	0	0	-0.5	Drilling SB-20
164	7/14/2012 16:58	0.5	0.5	0.5	170	7/14/2012 16:58	0	0	0	-0.5	Drilling SB-20
165	7/14/2012 16:59	0.5	0.5	0.6	171	7/14/2012 16:59	0	0	0	-0.5	Drilling SB-20
166	7/14/2012 17:00	0.5	0.5	0.5	172	7/14/2012 17:00	0	0	0	-0.5	Drilling SB-20
167	7/14/2012 17:01	0.5	0.5	0.6	173	7/14/2012 17:01	0	0	0	-0.5	Drilling SB-20
168	7/14/2012 17:02	0.5	0.5	0.6	174	7/14/2012 17:02	0	0	0	-0.5	Drilling SB-20
169	7/14/2012 17:03	0.5	0.5	0.6	175	7/14/2012 17:03	0	0	0	-0.5	Drilling SB-20
170	7/14/2012 17:04	0.5	0.5	0.5	176	7/14/2012 17:04	0	0	0	-0.5	Drilling SB-20
171	7/14/2012 17:05	0.5	0.5	0.6	177	7/14/2012 17:05	0	0	0	-0.5	Drilling SB-20
172	7/14/2012 17:06	0.5	0.5	0.6	178	7/14/2012 17:06	0	0	0	-0.5	Drilling SB-20
173	7/14/2012 17:07	0.5	0.5	0.6	179	7/14/2012 17:07	0	0	0	-0.5	Drilling SB-20
174	7/14/2012 17:08	0.5	0.5	0.6	180	7/14/2012 17:08	0	0	0	-0.5	Drilling SB-20
175	7/14/2012 17:09	0.5	0.5	0.6	181	7/14/2012 17:09	0	0	0	-0.5	Drilling SB-20
176	7/14/2012 17:10	0.5	0.5	0.6	182	7/14/2012 17:10	0	0	0	-0.5	Drilling SB-20
177	7/14/2012 17:11	0.5	0.5	0.6	183	7/14/2012 17:11	0	0	0	-0.5	Drilling SB-20
178	7/14/2012 17:12	0.5	0.5	0.6	184	7/14/2012 17:12	0	0	0	-0.5	Drilling SB-20
179	7/14/2012 17:13	0.5	0.5	0.6	185	7/14/2012 17:13	0	0	0	-0.5	Drilling SB-20
180	7/14/2012 17:14	0.5	0.5	0.5	186	7/14/2012 17:14	0	0	0	-0.5	Drilling SB-20
181	7/14/2012 17:15	0.5	0.5	0.5	187	7/14/2012 17:15	0	0	0	-0.5	Drilling SB-20
182	7/14/2012 17:16	0.5	0.5	0.6	188	7/14/2012 17:16	0	0	0.2	-0.5	Drilling SB-20
183	7/14/2012 17:17	0.5	0.5	0.5	189	7/14/2012 17:17	0	0	0	-0.5	Drilling SB-20
184	7/14/2012 17:18	0.5	0.5	0.5	190	7/14/2012 17:18	0	0	0	-0.5	Drilling SB-20
185	7/14/2012 17:19	0.5	0.5	0.5	191	7/14/2012 17:19	0	0	0	-0.5	Drilling SB-20
186	7/14/2012 17:20	0.5	0.5	0.6	192	7/14/2012 17:20	0	0	0	-0.5	Drilling SB-20
187	7/14/2012 17:21	0.5	0.5	0.6	193	7/14/2012 17:21	0	0	0	-0.5	Drilling SB-20
188	7/14/2012 17:22	0.5	0.5	0.5	194	7/14/2012 17:22	0	0	0	-0.5	Drilling SB-20
189	7/14/2012 17:23	0.5	0.5	0.5	195	7/14/2012 17:23	0	0	0	-0.5	Drilling SB-20
190	7/14/2012 17:24	0.5	0.5	0.5	196	7/14/2012 17:24	0	0	0	-0.5	Drilling SB-20
191	7/14/2012 17:25	0.5	0.5	0.6	197	7/14/2012 17:25	0	0	0	-0.5	Drilling SB-20
192	7/14/2012 17:26	0.5	0.5	0.6	198	7/14/2012 17:26	0	0	0	-0.5	Drilling SB-20

193	7/14/2012 17:27	0.5	0.5	0.5	199	7/14/2012 17:27	0	0	0	-0.5	Drilling SB-20
194	7/14/2012 17:28	0.5	0.5	0.5	200	7/14/2012 17:28	0	0	0	-0.5	Drilling SB-20
195	7/14/2012 17:29	0.5	0.5	0.5	201	7/14/2012 17:29	0	0	0	-0.5	Drilling SB-20
196	7/14/2012 17:30	0.5	0.5	0.5	202	7/14/2012 17:30	0	0	0	-0.5	Drilling SB-20
197	7/14/2012 17:31	0.5	0.5	0.5	203	7/14/2012 17:31	0	0	0	-0.5	Drilling SB-20
198	7/14/2012 17:32	0.5	0.5	0.5	204	7/14/2012 17:32	0	0	0	-0.5	Drilling SB-20
199	7/14/2012 17:33	0.5	0.5	0.6	205	7/14/2012 17:33	0	0	0	-0.5	Drilling SB-20
200	7/14/2012 17:34	0.5	0.5	0.6	206	7/14/2012 17:34	0	0	0	-0.5	Drilling SB-20
201	7/14/2012 17:35	0.5	0.5	0.6	207	7/14/2012 17:35	0	0	0	-0.5	Drilling SB-20
202	7/14/2012 17:36	0.5	0.5	0.6	208	7/14/2012 17:36	0	0	0	-0.5	Drilling SB-20
203	7/14/2012 17:37	0.5	0.5	0.5	209	7/14/2012 17:37	0	0	0	-0.5	Drilling SB-20
204	7/14/2012 17:38	0.5	0.5	0.6	210	7/14/2012 17:38	0	0	0	-0.5	Drilling SB-20
205	7/14/2012 17:39	0.5	0.5	0.5	211	7/14/2012 17:39	0	0	0	-0.5	Drilling SB-20
206	7/14/2012 17:40	0.5	0.5	0.5	212	7/14/2012 17:40	0	0	0	-0.5	Done Drilling SB-20
207	7/14/2012 17:41	0.5	0.5	0.6	213	7/14/2012 17:41	0	0	0	-0.5	CAMP breakdown
208	7/14/2012 17:42	0.5	0.5	0.5	214	7/14/2012 17:42	0	0	0	-0.5	CAMP breakdown
209	7/14/2012 17:43	0.5	0.5	0.5	215	7/14/2012 17:43	0	0	0	-0.5	CAMP breakdown
210	7/14/2012 17:44	0.5	0.5	0.6	216	7/14/2012 17:44	0	0	0	-0.5	CAMP breakdown
211	7/14/2012 17:45	0.5	0.5	0.5	217	7/14/2012 17:45	0	0	0	-0.5	CAMP breakdown
212	7/14/2012 17:46	0.5	0.5	0.6	218	7/14/2012 17:46	0	0	0	-0.5	CAMP breakdown
213	7/14/2012 17:47	0.5	0.5	0.6	219	7/14/2012 17:47	0	0	0	-0.5	CAMP breakdown
214	7/14/2012 17:48	0.5	0.5	0.5	220	7/14/2012 17:48	0	0	0	-0.5	CAMP breakdown
215	7/14/2012 17:49	0.5	0.5	0.5	221	7/14/2012 17:49	0	0	0	-0.5	CAMP breakdown
216	7/14/2012 17:50	0.5	0.5	0.5	222	7/14/2012 17:50	0	0	0	-0.5	CAMP breakdown
217	7/14/2012 17:51	0.5	0.5	0.6	223	7/14/2012 17:51	0	0	0	-0.5	CAMP breakdown
218	7/14/2012 17:52	0.5	0.5	0.5	224	7/14/2012 17:52	0	0	0	-0.5	CAMP breakdown
219	7/14/2012 17:53	0.5	0.5	0.5	225	7/14/2012 17:53	0	0	0	-0.5	CAMP breakdown
220	7/14/2012 17:54	0.5	0.5	0.6						-0.5	CAMP breakdown
221	7/14/2012 17:55	0.5	0.5	0.6						-0.5	CAMP breakdown
222	7/14/2012 17:56	0.5	0.5	0.6						-0.5	CAMP breakdown

indicates high reading
indicates high reading with exceedance

activity - advance sb-20j Drilling SB-20

Upwind

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000138
Data Points: 503 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/15/2012 07:28

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/15/2012 7:30	0.6		0.8		1.2	
2	7/15/2012 7:31	0.3		0.4		0.6	
3	7/15/2012 7:32	0.2		0.2		0.3	
4	7/15/2012 7:33	0.1		0.1		0.2	
5	7/15/2012 7:34	0		0		0.1	
6	7/15/2012 7:35	0		0		0.1	
7	7/15/2012 7:36	0		0		0.1	
8	7/15/2012 7:37	0		0		0.1	
9	7/15/2012 7:38	0		0		0.1	
10	7/15/2012 7:39	0.1		0.1		0.2	
11	7/15/2012 7:40	0.1		0.2		0.3	
12	7/15/2012 7:41	0.2		0.2		0.3	
13	7/15/2012 7:42	0.3		0.3		0.4	
14	7/15/2012 7:43	0.3		0.4		0.6	
15	7/15/2012 7:44	0.5		0.6		0.7	
16	7/15/2012 7:45	0.6		0.7		0.8	
17	7/15/2012 7:46	0.8		0.8		0.9	
18	7/15/2012 7:47	0.9		0.9		1.1	
19	7/15/2012 7:48	1		1.1		1.2	
20	7/15/2012 7:49	1.2		1.2		1.3	
21	7/15/2012 7:50	1.3		1.3		1.4	
22	7/15/2012 7:51	1.4		1.4		1.5	
23	7/15/2012 7:52	1.5		1.5		1.7	
24	7/15/2012 7:53	1.6		1.6		1.7	
25	7/15/2012 7:54	1.7		1.7		1.8	
26	7/15/2012 7:55	1.8		1.8		1.9	
27	7/15/2012 7:56	1.9		1.9		2	
28	7/15/2012 7:57	1.9		1.9		2	
29	7/15/2012 7:58	2		2		2.1	
30	7/15/2012 7:59	2.1		2.1		2.2	
31	7/15/2012 8:00	2.1		2.1		2.2	
32	7/15/2012 8:01	2.2		2.2		2.2	
33	7/15/2012 8:02	2.2		2.2		2.3	
34	7/15/2012 8:03	2.2		2.2		2.3	
35	7/15/2012 8:04	2.2		2.2		2.3	
36	7/15/2012 8:05	2.3		2.3		2.4	
37	7/15/2012 8:06	2.3		2.3		2.4	
38	7/15/2012 8:07	2.3		2.3		2.4	
39	7/15/2012 8:08	2.4		2.4		2.4	
40	7/15/2012 8:09	2.4		2.4		2.4	
41	7/15/2012 8:10	2.4		2.4		2.5	
42	7/15/2012 8:11	2.4		2.4		2.5	
43	7/15/2012 8:12	2.4		2.4		2.5	
44	7/15/2012 8:13	2.4		2.4		2.5	
45	7/15/2012 8:14	2.4		2.4		2.5	
46	7/15/2012 8:15	2.3		2.3		2.4	
47	7/15/2012 8:16	2.3		2.3		2.4	
48	7/15/2012 8:17	2.2		2.2		2.3	
49	7/15/2012 8:18	2.2		2.2		2.3	
50	7/15/2012 8:19	2.1		2.1		2.2	
51	7/15/2012 8:20	2.1		2.1		2.2	
52	7/15/2012 8:21	2		2		2.1	

Downwind

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005302
User ID: 00000001 Site ID: 00000122
Data Points: 508 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/15/2012 07:18

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/15/2012 7:21	0.1		0.2		0.3	
2	7/15/2012 7:22	0.1		0.1		0.2	
3	7/15/2012 7:23	0.1		0.1		0.2	
4	7/15/2012 7:24	0.1		0.2		0.4	
5	7/15/2012 7:25	0.1		0.2		0.3	
6	7/15/2012 7:26	0.2		0.2		0.2	
7	7/15/2012 7:27	0.2		0.2		0.3	
8	7/15/2012 7:28	0.2		0.2		0.2	
9	7/15/2012 7:29	0.2		0.2		0.4	
10	7/15/2012 7:30	0.2		0.2		0.3	
11	7/15/2012 7:31	0.2		0.2		0.2	
12	7/15/2012 7:32	0.2		0.2		0.3	
13	7/15/2012 7:33	0.2		0.2		0.4	
14	7/15/2012 7:34	0.3		0.4		0.5	
15	7/15/2012 7:35	0.4		0.4		0.5	
16	7/15/2012 7:36	0.3		0.3		0.5	
17	7/15/2012 7:37	0.3		0.3		0.4	
18	7/15/2012 7:38	0.3		0.3		0.4	
19	7/15/2012 7:39	0.3		0.3		0.4	
20	7/15/2012 7:40	0.3		0.4		0.9	
21	7/15/2012 7:41	0.3		0.3		0.5	
22	7/15/2012 7:42	0.3		0.4		0.6	
23	7/15/2012 7:43	0.3		0.3		0.4	
24	7/15/2012 7:44	0.3		0.3		0.7	
25	7/15/2012 7:45	0.3		0.3		0.4	
26	7/15/2012 7:46	0.3		0.3		0.4	
27	7/15/2012 7:47	0.3		0.3		0.4	
28	7/15/2012 7:48	0.3		0.3		0.4	
29	7/15/2012 7:49	0.3		0.3		0.3	
30	7/15/2012 7:50	0.3		0.3		0.4	
31	7/15/2012 7:51	0.3		0.3		0.5	
32	7/15/2012 7:52	0.3		0.3		0.4	
33	7/15/2012 7:53	0.3		0.3		0.4	
34	7/15/2012 7:54	0.3		0.3		0.3	
35	7/15/2012 7:55	0.3		0.3		0.4	
36	7/15/2012 7:56	0.3		0.3		0.4	
37	7/15/2012 7:57	0.3		0.3		0.4	
38	7/15/2012 7:58	0.3		0.3		0.4	
39	7/15/2012 7:59	0.3		0.3		0.3	
40	7/15/2012 8:00	0.3		0.3		0.3	
41	7/15/2012 8:01	0.3		0.3		0.4	
42	7/15/2012 8:02	0.3		0.3		0.4	
43	7/15/2012 8:03	0.3		0.3		0.4	
44	7/15/2012 8:04	0.3		0.3		0.4	
45	7/15/2012 8:05	0.3		0.3		0.4	
46	7/15/2012 8:06	0.3		0.3		0.4	
47	7/15/2012 8:07	0.3		0.3		0.5	
48	7/15/2012 8:08	0.3		0.3		0.3	
49	7/15/2012 8:09	0.3		0.3		0.4	
50	7/15/2012 8:10	0.3		0.3		0.4	
51	7/15/2012 8:11	0.3		0.3		0.4	
52	7/15/2012 8:12	0.3		0.3		0.4	
53	7/15/2012 8:13	0.3		0.3		0.4	
54	7/15/2012 8:14	0.3		0.3		0.4	
55	7/15/2012 8:15	0.3		0.3		0.4	
56	7/15/2012 8:16	0.3		0.3		0.3	
57	7/15/2012 8:17	0.3		0.3		0.3	
58	7/15/2012 8:18	0.3		0.3		0.3	
59	7/15/2012 8:19	0.3		0.3		0.3	
60	7/15/2012 8:20	0.3		0.3		0.4	
61	7/15/2012 8:21	0.3		0.3		0.3	

Compiled

Difference	Comments
0.3	Drilling SB-20
0.1	Drilling SB-20
0.1	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
-0.6	Drilling SB-20, started upwind PID
-0.2	Drilling SB-20
0	Drilling SB-20
0.1	Drilling SB-20
0.4	Drilling SB-20
0.4	Drilling SB-20
0.3	Drilling SB-20
0.3	Drilling SB-20
0.3	Drilling SB-20
0.2	Drilling SB-20
0.2	Drilling SB-20
0.1	Drilling SB-20
0.1	Drilling SB-20
-0.1	Drilling SB-20
-0.3	Drilling SB-20
-0.4	Drilling SB-20
-0.5	Drilling SB-20
-0.6	Drilling SB-20
-0.8	Drilling SB-20
-0.9	Drilling SB-20
-1	Drilling SB-20
-1.1	Drilling SB-20
-1.2	Drilling SB-20
-1.3	Drilling SB-20
-1.4	Drilling SB-20
-1.5	Drilling SB-20
-1.6	Drilling SB-20
-1.6	Drilling SB-20
-1.7	Drilling SB-20
-1.8	Drilling SB-20
-1.8	Drilling SB-20
-1.9	Drilling SB-20
-1.9	Drilling SB-20
-1.9	Drilling SB-20
-1.9	Drilling SB-20
-2	Drilling SB-20
-2	Drilling SB-20
-2	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2.1	Drilling SB-20
-2	Drilling SB-20
-2	Drilling SB-20
-1.9	Drilling SB-20
-1.9	Drilling SB-20
-1.8	Drilling SB-20
-1.8	Drilling SB-20
-1.7	Drilling SB-20

53	7/15/2012 8:22	2	2	2.1	62	7/15/2012 8:22	0.3	0.3	0.3	-1.7	Drilling SB-20
54	7/15/2012 8:23	2	2	2	63	7/15/2012 8:23	0.3	0.3	0.3	-1.7	Drilling SB-20
55	7/15/2012 8:24	1.9	1.9	2	64	7/15/2012 8:24	0.3	0.3	0.4	-1.6	Drilling SB-20
56	7/15/2012 8:25	1.9	1.9	1.9	65	7/15/2012 8:25	0.3	0.3	0.4	-1.6	Drilling SB-20, very humid
57	7/15/2012 8:26	1.8	1.8	1.9	66	7/15/2012 8:26	0.3	0.3	0.3	-1.5	Drilling SB-20, very humid
58	7/15/2012 8:27	1.8	1.8	1.8	67	7/15/2012 8:27	0.3	0.3	0.3	-1.5	Drilling SB-20, very humid
59	7/15/2012 8:28	1.7	1.7	1.8	68	7/15/2012 8:28	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
60	7/15/2012 8:29	1.7	1.7	1.8	69	7/15/2012 8:29	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
61	7/15/2012 8:30	1.7	1.7	1.8	70	7/15/2012 8:30	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
62	7/15/2012 8:31	1.7	1.7	1.8	71	7/15/2012 8:31	0.3	0.3	0.5	-1.4	Drilling SB-20, very humid
63	7/15/2012 8:32	1.7	1.7	1.8	72	7/15/2012 8:32	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
64	7/15/2012 8:33	1.7	1.7	1.8	73	7/15/2012 8:33	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
65	7/15/2012 8:34	1.7	1.7	1.7	74	7/15/2012 8:34	0.3	0.3	0.6	-1.4	Drilling SB-20, very humid
66	7/15/2012 8:35	1.6	1.6	1.7	75	7/15/2012 8:35	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
67	7/15/2012 8:36	1.6	1.6	1.7	76	7/15/2012 8:36	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
68	7/15/2012 8:37	1.6	1.6	1.7	77	7/15/2012 8:37	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
69	7/15/2012 8:38	1.7	1.7	1.7	78	7/15/2012 8:38	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
70	7/15/2012 8:39	1.7	1.7	1.8	79	7/15/2012 8:39	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
71	7/15/2012 8:40	1.7	1.7	1.7	80	7/15/2012 8:40	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
72	7/15/2012 8:41	1.6	1.6	1.7	81	7/15/2012 8:41	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
73	7/15/2012 8:42	1.6	1.6	1.7	82	7/15/2012 8:42	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
74	7/15/2012 8:43	1.6	1.6	1.7	83	7/15/2012 8:43	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
75	7/15/2012 8:44	1.7	1.7	1.7	84	7/15/2012 8:44	0.3	0.3	0.4	-1.4	Drilling SB-20, very humid
76	7/15/2012 8:45	1.6	1.6	1.7	85	7/15/2012 8:45	0.3	0.3	0.3	-1.3	Drilling SB-20, very humid
77	7/15/2012 8:46	1.6	1.6	1.7	86	7/15/2012 8:46	0.3	0.3	0.3	-1.3	Drilling SB-20, very humid
78	7/15/2012 8:47	1.6	1.6	1.6	87	7/15/2012 8:47	0.3	0.3	0.4	-1.3	Drilling SB-20, very humid
79	7/15/2012 8:48	1.6	1.6	1.6	88	7/15/2012 8:48	0.3	0.3	0.3	-1.3	Drilling SB-20, very humid
80	7/15/2012 8:49	1.6	1.6	1.6	89	7/15/2012 8:49	0.3	0.3	0.3	-1.3	Drilling SB-20, very humid
81	7/15/2012 8:50	1.5	1.5	1.6	90	7/15/2012 8:50	0.3	0.3	0.5	-1.2	Drilling SB-20, very humid
82	7/15/2012 8:51	1.5	1.5	1.6	91	7/15/2012 8:51	0.3	0.3	0.3	-1.2	Drilling SB-20, very humid
83	7/15/2012 8:52	1.5	1.5	1.6	92	7/15/2012 8:52	0.3	0.3	0.3	-1.2	Drilling SB-20, very humid
84	7/15/2012 8:53	1.4	1.4	1.5	93	7/15/2012 8:53	0.3	0.3	0.3	-1.1	Drilling SB-20, very humid
85	7/15/2012 8:54	1.4	1.4	1.5	94	7/15/2012 8:54	0.2	0.3	0.4	-1.1	Drilling SB-20, very humid
86	7/15/2012 8:55	1.4	1.4	1.4	95	7/15/2012 8:55	0.2	0.2	0.4	-1.2	Drilling SB-20, very humid
87	7/15/2012 8:56	1.4	1.4	1.5	96	7/15/2012 8:56	0.2	0.2	0.3	-1.2	Drilling SB-20, very humid
88	7/15/2012 8:57	1.4	1.4	1.4	97	7/15/2012 8:57	0.3	0.3	0.3	-1.1	Drilling SB-20, very humid
89	7/15/2012 8:58	1.3	1.3	1.4	98	7/15/2012 8:58	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
90	7/15/2012 8:59	1.3	1.3	1.4	99	7/15/2012 8:59	0.3	0.3	0.3	-1	Drilling SB-20, very humid
91	7/15/2012 9:00	1.3	1.3	1.4	100	7/15/2012 9:00	0.3	0.3	0.3	-1	Drilling SB-20, very humid
92	7/15/2012 9:01	1.3	1.3	1.4	101	7/15/2012 9:01	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
93	7/15/2012 9:02	1.3	1.3	1.4	102	7/15/2012 9:02	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
94	7/15/2012 9:03	1.3	1.3	1.4	103	7/15/2012 9:03	0.3	0.3	0.3	-1	Drilling SB-20, very humid
95	7/15/2012 9:04	1.3	1.3	1.4	104	7/15/2012 9:04	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
96	7/15/2012 9:05	1.3	1.3	1.3	105	7/15/2012 9:05	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
97	7/15/2012 9:06	1.3	1.3	1.3	106	7/15/2012 9:06	0.2	0.2	0.3	-1.1	Drilling SB-20, very humid
98	7/15/2012 9:07	1.3	1.3	1.4	107	7/15/2012 9:07	0.3	0.3	0.3	-1	Drilling SB-20, very humid
99	7/15/2012 9:08	1.2	1.2	1.3	108	7/15/2012 9:08	0.2	0.2	0.3	-1	Drilling SB-20, very humid
100	7/15/2012 9:09	1.2	1.2	1.3	109	7/15/2012 9:09	0.2	0.2	0.3	-1	Drilling SB-20, very humid
101	7/15/2012 9:10	1.2	1.2	1.2	110	7/15/2012 9:10	0.2	0.2	0.3	-1	Drilling SB-20, very humid
102	7/15/2012 9:11	1.2	1.2	1.2	111	7/15/2012 9:11	0.2	0.2	0.3	-1	Drilling SB-20, very humid
103	7/15/2012 9:12	1.1	1.1	1.2	112	7/15/2012 9:12	0.2	0.2	0.3	-0.9	Drilling SB-20, very humid
104	7/15/2012 9:13	1.1	1.1	1.2	113	7/15/2012 9:13	0.2	0.2	0.3	-0.9	Drilling SB-20, very humid
105	7/15/2012 9:14	1	1	1.1	114	7/15/2012 9:14	0.2	0.2	0.3	-0.8	Drilling SB-20, very humid
106	7/15/2012 9:15	1	1	1.1	115	7/15/2012 9:15	0.2	0.2	0.3	-0.8	Drilling SB-20, very humid
107	7/15/2012 9:16	1	1	1	116	7/15/2012 9:16	0.2	0.2	0.3	-0.8	Drilling SB-20, very humid
108	7/15/2012 9:17	0.9	0.9	1	117	7/15/2012 9:17	0.2	0.2	0.3	-0.7	Drilling SB-20, very humid
109	7/15/2012 9:18	0.9	0.9	1	118	7/15/2012 9:18	0.2	0.2	0.3	-0.7	Drilling SB-20, very humid
110	7/15/2012 9:19	0.9	0.9	1	119	7/15/2012 9:19	0.2	0.2	0.3	-0.7	Drilling SB-20, very humid
111	7/15/2012 9:20	0.9	0.9	0.9	120	7/15/2012 9:20	0.2	0.2	0.3	-0.7	Drilling SB-20, very humid
112	7/15/2012 9:21	0.8	0.8	0.9	121	7/15/2012 9:21	0.2	0.2	0.3	-0.6	Drilling SB-20, very humid
113	7/15/2012 9:22	0.8	0.8	0.9	122	7/15/2012 9:22	0.2	0.2	0.3	-0.6	Drilling SB-20, very humid
114	7/15/2012 9:23	0.8	0.8	0.8	123	7/15/2012 9:23	0.2	0.2	0.3	-0.6	Drilling SB-20, very humid
115	7/15/2012 9:24	0.7	0.7	0.8	124	7/15/2012 9:24	0.2	0.2	0.3	-0.5	Drilling SB-20, very humid
116	7/15/2012 9:25	0.7	0.7	0.8	125	7/15/2012 9:25	0.2	0.2	0.3	-0.5	Drilling SB-20, very humid
117	7/15/2012 9:26	0.7	0.7	0.8	126	7/15/2012 9:26	0.2	0.2	0.3	-0.5	Drilling SB-20, very humid
118	7/15/2012 9:27	0.7	0.7	0.7	127	7/15/2012 9:27	0.2	0.2	0.3	-0.5	Drilling SB-20, very humid
119	7/15/2012 9:28	0.6	0.6	0.7	128	7/15/2012 9:28	0.2	0.2	0.3	-0.4	Drilling SB-20, very humid
120	7/15/2012 9:29	0.6	0.6	0.7	129	7/15/2012 9:29	0.2	0.2	0.3	-0.4	Drilling SB-20, very humid
121	7/15/2012 9:30	0.6	0.6	0.7	130	7/15/2012 9:30	0.2	0.2	0.3	-0.4	Drilling SB-20, very humid
122	7/15/2012 9:31	0.6	0.6	0.6	131	7/15/2012 9:31	0.2	0.2	0.3	-0.4	Drilling SB-20, very humid
123	7/15/2012 9:32	0.5	0.5	0.6	132	7/15/2012 9:32	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid
124	7/15/2012 9:33	0.5	0.5	0.6	133	7/15/2012 9:33	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid
125	7/15/2012 9:34	0.5	0.5	0.6	134	7/15/2012 9:34	0.2	0.2	0.2	-0.3	Drilling SB-20, very humid
126	7/15/2012 9:35	0.5	0.5	0.5	135	7/15/2012 9:35	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid

127	7/15/2012 9:36	0.5	0.5	0.5	136	7/15/2012 9:36	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid
128	7/15/2012 9:37	0.5	0.5	0.5	137	7/15/2012 9:37	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid
129	7/15/2012 9:38	0.5	0.5	0.5	138	7/15/2012 9:38	0.2	0.2	0.3	-0.3	Drilling SB-20, very humid
130	7/15/2012 9:39	0.4	0.4	0.5	139	7/15/2012 9:39	0.2	0.2	0.3	-0.2	Drilling SB-20, very humid
131	7/15/2012 9:40	0.4	0.4	0.5	140	7/15/2012 9:40	0.2	0.2	0.2	-0.2	Drilling SB-20, very humid
132	7/15/2012 9:41	0.4	0.4	0.5	141	7/15/2012 9:41	0.2	0.2	0.3	-0.2	Drilling SB-20, very humid
133	7/15/2012 9:42	0.4	0.4	0.5	142	7/15/2012 9:42	0.2	0.2	0.3	-0.2	Drilling SB-20, very humid
134	7/15/2012 9:43	0.4	0.4	0.5	143	7/15/2012 9:43	0.2	0.2	0.3	-0.2	Drilling SB-20, very humid
135	7/15/2012 9:44	0.4	0.4	0.5	144	7/15/2012 9:44	0.1	0.2	0.3	-0.2	Drilling SB-20, very humid
136	7/15/2012 9:45	0.4	0.4	0.4	145	7/15/2012 9:45	0.1	0.2	0.3	-0.2	Drilling SB-20, very humid
137	7/15/2012 9:46	0.3	0.3	0.4	146	7/15/2012 9:46	0.1	0.1	0.2	-0.2	Drilling SB-20, very humid
138	7/15/2012 9:47	0.3	0.3	0.4	147	7/15/2012 9:47	0.2	0.2	0.3	-0.1	Drilling SB-20, very humid
139	7/15/2012 9:48	0.3	0.3	0.4	148	7/15/2012 9:48	0.1	0.1	0.3	-0.2	Drilling SB-20, very humid
140	7/15/2012 9:49	0.3	0.3	0.3	149	7/15/2012 9:49	0.1	0.1	0.2	-0.2	Drilling SB-20, very humid
141	7/15/2012 9:50	0.3	0.3	0.3	150	7/15/2012 9:50	0.1	0.1	0.2	-0.2	Drilling SB-20, very humid
142	7/15/2012 9:51	0.3	0.3	0.3	151	7/15/2012 9:51	0.1	0.1	0.3	-0.2	Drilling SB-20, very humid
143	7/15/2012 9:52	0.3	0.3	0.3	152	7/15/2012 9:52	0.1	0.1	0.2	-0.2	Drilling SB-20, very humid
144	7/15/2012 9:53	0.3	0.3	0.3	153	7/15/2012 9:53	0.1	0.1	0.2	-0.2	Drilling SB-20, very humid
145	7/15/2012 9:54	0.2	0.2	0.3	154	7/15/2012 9:54	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
146	7/15/2012 9:55	0.2	0.2	0.3	155	7/15/2012 9:55	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
147	7/15/2012 9:56	0.2	0.2	0.3	156	7/15/2012 9:56	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
148	7/15/2012 9:57	0.2	0.2	0.3	157	7/15/2012 9:57	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
149	7/15/2012 9:58	0.2	0.2	0.3	158	7/15/2012 9:58	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
150	7/15/2012 9:59	0.2	0.2	0.3	159	7/15/2012 9:59	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
151	7/15/2012 10:00	0.2	0.2	0.3	160	7/15/2012 10:00	0.1	0.1	0.2	-0.1	Drilling SB-20, very humid
152	7/15/2012 10:01	0.2	0.2	0.3	161	7/15/2012 10:01	0.1	0.1	0.3	-0.1	Drilling SB-20, sunny
153	7/15/2012 10:02	0.2	0.2	0.3	162	7/15/2012 10:02	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
154	7/15/2012 10:03	0.2	0.2	0.3	163	7/15/2012 10:03	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
155	7/15/2012 10:04	0.2	0.2	0.2	164	7/15/2012 10:04	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
156	7/15/2012 10:05	0.2	0.2	0.2	165	7/15/2012 10:05	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
157	7/15/2012 10:06	0.2	0.2	0.2	166	7/15/2012 10:06	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
158	7/15/2012 10:07	0.2	0.2	0.2	167	7/15/2012 10:07	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
159	7/15/2012 10:08	0.2	0.2	0.2	168	7/15/2012 10:08	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
160	7/15/2012 10:09	0.2	0.2	0.2	169	7/15/2012 10:09	0.1	0.1	0.3	-0.1	Drilling SB-20, sunny
161	7/15/2012 10:10	0.2	0.2	0.2	170	7/15/2012 10:10	0.1	0.1	0.3	-0.1	Drilling SB-20, sunny
162	7/15/2012 10:11	0.2	0.2	0.2	171	7/15/2012 10:11	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
163	7/15/2012 10:12	0.2	0.2	0.2	172	7/15/2012 10:12	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
164	7/15/2012 10:13	0.2	0.2	0.2	173	7/15/2012 10:13	0.1	0.1	0.3	-0.1	Drilling SB-20, sunny
165	7/15/2012 10:14	0.2	0.2	0.2	174	7/15/2012 10:14	0.1	0.1	0.3	-0.1	Drilling SB-20, sunny
166	7/15/2012 10:15	0.2	0.2	0.2	175	7/15/2012 10:15	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
167	7/15/2012 10:16	0.2	0.2	0.2	176	7/15/2012 10:16	0.1	0.1	0.2	-0.1	Drilling SB-20, sunny
168	7/15/2012 10:17	0.1	0.1	0.2	177	7/15/2012 10:17	0.1	0.1	0.3	0	Drilling SB-20, sunny
169	7/15/2012 10:18	0.1	0.1	0.2	178	7/15/2012 10:18	0.1	0.1	0.2	0	Drilling SB-20, sunny
170	7/15/2012 10:19	0.1	0.1	0.2	179	7/15/2012 10:19	0.1	0.1	0.2	0	Drilling SB-20, sunny
171	7/15/2012 10:20	0.1	0.1	0.2	180	7/15/2012 10:20	0.1	0.1	0.2	0	Drilling SB-20, sunny
172	7/15/2012 10:21	0.1	0.1	0.2	181	7/15/2012 10:21	0.1	0.1	0.2	0	Drilling SB-20, sunny
173	7/15/2012 10:22	0.1	0.1	0.1	182	7/15/2012 10:22	0.1	0.1	0.2	0	Drilling SB-20, sunny
174	7/15/2012 10:23	0.1	0.1	0.2	183	7/15/2012 10:23	0.1	0.1	0.2	0	Drilling SB-20, sunny
175	7/15/2012 10:24	0.1	0.1	0.2	184	7/15/2012 10:24	0.1	0.1	0.2	0	Drilling SB-20, sunny
176	7/15/2012 10:25	0.1	0.1	0.2	185	7/15/2012 10:25	0.1	0.1	0.2	0	Drilling SB-20, sunny
177	7/15/2012 10:26	0.1	0.1	0.2	186	7/15/2012 10:26	0.1	0.1	0.2	0	Drilling SB-20, sunny
178	7/15/2012 10:27	0.1	0.1	0.2	187	7/15/2012 10:27	0.1	0.1	0.2	0	Drilling SB-20, sunny
179	7/15/2012 10:28	0.1	0.1	0.2	188	7/15/2012 10:28	0.1	0.1	0.2	0	Drilling SB-20, sunny
180	7/15/2012 10:29	0.1	0.1	0.2	189	7/15/2012 10:29	0.1	0.1	0.2	0	Drilling SB-20, sunny
181	7/15/2012 10:30	0.1	0.1	0.1	190	7/15/2012 10:30	0.1	0.1	0.2	0	Drilling SB-20, sunny
182	7/15/2012 10:31	0.1	0.1	0.1	191	7/15/2012 10:31	0.1	0.1	0.2	0	Drilling SB-20, sunny
183	7/15/2012 10:32	0.1	0.1	0.1	192	7/15/2012 10:32	0.1	0.1	0.2	0	Drilling SB-20, sunny
184	7/15/2012 10:33	0.1	0.1	0.1	193	7/15/2012 10:33	0.1	0.1	0.2	0	Drilling SB-20, sunny
185	7/15/2012 10:34	0.1	0.1	0.1	194	7/15/2012 10:34	0.1	0.1	0.2	0	Drilling SB-20, sunny
186	7/15/2012 10:35	0	0	0.1	195	7/15/2012 10:35	0.1	0.1	0.3	0.1	Drilling SB-20, sunny
187	7/15/2012 10:36	0	0	0.1	196	7/15/2012 10:36	0	0	0.1	0	Drilling SB-20, sunny
188	7/15/2012 10:37	0	0	0.1	197	7/15/2012 10:37	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
189	7/15/2012 10:38	0	0	0.1	198	7/15/2012 10:38	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
190	7/15/2012 10:39	0	0	0.1	199	7/15/2012 10:39	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
191	7/15/2012 10:40	0	0	0.1	200	7/15/2012 10:40	0.1	0.1	0.1	0.1	Drilling SB-20, sunny
192	7/15/2012 10:41	0	0	0.1	201	7/15/2012 10:41	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
193	7/15/2012 10:42	0	0	0.1	202	7/15/2012 10:42	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
194	7/15/2012 10:43	0	0	0.1	203	7/15/2012 10:43	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
195	7/15/2012 10:44	0.1	0.1	0.1	204	7/15/2012 10:44	0.1	0.1	0.2	0	Drilling SB-20, sunny
196	7/15/2012 10:45	0.1	0.1	0.1	205	7/15/2012 10:45	0	0.1	0.2	0	Drilling SB-20, sunny
197	7/15/2012 10:46	0	0	0.1	206	7/15/2012 10:46	0.1	0.1	0.2	0.1	Drilling SB-20, sunny
198	7/15/2012 10:47	0.1	0.1	0.1	207	7/15/2012 10:47	0.1	0.1	0.2	0	Drilling SB-20, sunny
199	7/15/2012 10:48	0.1	0.1	0.1	208	7/15/2012 10:48	0	0	0.2	-0.1	Drilling SB-20, sunny
200	7/15/2012 10:49	0.1	0.1	0.1	209	7/15/2012 10:49	0	0	0.1	-0.1	Drilling SB-20, sunny

201	7/15/2012 10:50	0.1	0.1	0.1	210	7/15/2012 10:50	0.1	0.1	0.2	0	Drilling SB-20, sunny
202	7/15/2012 10:51	0.1	0.1	0.1	211	7/15/2012 10:51	0.1	0.1	0.2	0	Drilling SB-20, sunny
203	7/15/2012 10:52	0.1	0.1	0.1	212	7/15/2012 10:52	0	0.1	0.2	0	Drilling SB-20, sunny
204	7/15/2012 10:53	0.1	0.1	0.1	213	7/15/2012 10:53	0	0	0.2	-0.1	Drilling SB-20, sunny
205	7/15/2012 10:54	0.1	0.1	0.1	214	7/15/2012 10:54	0	0	0.1	-0.1	Drilling SB-20, sunny
206	7/15/2012 10:55	0.1	0.1	0.1	215	7/15/2012 10:55	0	0.1	0.2	0	Drilling SB-20, sunny
207	7/15/2012 10:56	0.1	0.1	0.1	216	7/15/2012 10:56	0	0	0.1	-0.1	Drilling SB-20, sunny
208	7/15/2012 10:57	0.1	0.1	0.2	217	7/15/2012 10:57	0	0	0.2	-0.1	Drilling SB-20, sunny
209	7/15/2012 10:58	0.1	0.1	0.1	218	7/15/2012 10:58	0	0	0.2	-0.1	Drilling SB-20, sunny
210	7/15/2012 10:59	0.1	0.1	0.1	219	7/15/2012 10:59	0	0	0.2	-0.1	Drilling SB-20, sunny
211	7/15/2012 11:00	0.1	0.1	0.2	220	7/15/2012 11:00	0	0	0.1	-0.1	Drilling SB-20, sunny
212	7/15/2012 11:01	0.1	0.1	0.1	221	7/15/2012 11:01	0	0	0.1	-0.1	Drilling SB-20, sunny
213	7/15/2012 11:02	0.1	0.1	0.1	222	7/15/2012 11:02	0	0	0.2	-0.1	Drilling SB-20, sunny
214	7/15/2012 11:03	0.1	0.1	0.2	223	7/15/2012 11:03	0	0	0.1	-0.1	Drilling SB-20, sunny
215	7/15/2012 11:04	0.1	0.1	0.1	224	7/15/2012 11:04	0	0	0.1	-0.1	Drilling SB-20, sunny
216	7/15/2012 11:05	0.1	0.1	0.1	225	7/15/2012 11:05	0	0	0.1	-0.1	Drilling SB-20, sunny
217	7/15/2012 11:06	0.1	0.1	0.1	226	7/15/2012 11:06	0	0	0.2	-0.1	Drilling SB-20, sunny
218	7/15/2012 11:07	0.1	0.1	0.1	227	7/15/2012 11:07	0	0	0.1	-0.1	Drilling SB-20, sunny
219	7/15/2012 11:08	0.1	0.1	0.1	228	7/15/2012 11:08	0	0	0.1	-0.1	Drilling SB-20, sunny
220	7/15/2012 11:09	0.1	0.1	0.1	229	7/15/2012 11:09	0	0	0.1	-0.1	Drilling SB-20, sunny
221	7/15/2012 11:10	0.1	0.1	0.2	230	7/15/2012 11:10	0	0	0.1	-0.1	Drilling SB-20, sunny
222	7/15/2012 11:11	0.1	0.1	0.2	231	7/15/2012 11:11	0	0	0.1	-0.1	Drilling SB-20, sunny
223	7/15/2012 11:12	0.1	0.1	0.2	232	7/15/2012 11:12	0	0	0.1	-0.1	Drilling SB-20, sunny
224	7/15/2012 11:13	0.1	0.1	0.2	233	7/15/2012 11:13	0	0	0.1	-0.1	Drilling SB-20, sunny
225	7/15/2012 11:14	0.1	0.1	0.2	234	7/15/2012 11:14	0	0	0.1	-0.1	Drilling SB-20, sunny
226	7/15/2012 11:15	0.1	0.1	0.2	235	7/15/2012 11:15	0	0	0.1	-0.1	Drilling SB-20, sunny
227	7/15/2012 11:16	0.1	0.1	0.2	236	7/15/2012 11:16	0	0	0.1	-0.1	Drilling SB-20, sunny
228	7/15/2012 11:17	0.1	0.1	0.2	237	7/15/2012 11:17	0	0	0.1	-0.1	Drilling SB-20, sunny
229	7/15/2012 11:18	0.1	0.1	0.2	238	7/15/2012 11:18	0	0	0.1	-0.1	Drilling SB-20, sunny
230	7/15/2012 11:19	0.1	0.1	0.2	239	7/15/2012 11:19	0	0	0.1	-0.1	Drilling SB-20, sunny
231	7/15/2012 11:20	0.1	0.1	0.2	240	7/15/2012 11:20	0	0	0.1	-0.1	Drilling SB-20, sunny
232	7/15/2012 11:21	0.1	0.1	0.2	241	7/15/2012 11:21	0	0	0.1	-0.1	Drilling SB-20, sunny
233	7/15/2012 11:22	0.1	0.1	0.2	242	7/15/2012 11:22	0	0	0.1	-0.1	Drilling SB-20, sunny
234	7/15/2012 11:23	0.1	0.1	0.2	243	7/15/2012 11:23	0	0	0.1	-0.1	Drilling SB-20, sunny
235	7/15/2012 11:24	0.1	0.1	0.2	244	7/15/2012 11:24	0	0	0.3	-0.1	Drilling SB-20, sunny
236	7/15/2012 11:25	0.1	0.1	0.2	245	7/15/2012 11:25	0	0	0.1	-0.1	Drilling SB-20, sunny
237	7/15/2012 11:26	0.1	0.1	0.2	246	7/15/2012 11:26	0	0	0.1	-0.1	Drilling SB-20, sunny
238	7/15/2012 11:27	0.2	0.2	0.2	247	7/15/2012 11:27	0	0	0.1	-0.2	Drilling SB-20, sunny
239	7/15/2012 11:28	0.2	0.2	0.2	248	7/15/2012 11:28	0	0	0.1	-0.2	Drilling SB-20, sunny
240	7/15/2012 11:29	0.2	0.2	0.2	249	7/15/2012 11:29	0	0	0.2	-0.2	Drilling SB-20, sunny
241	7/15/2012 11:30	0.2	0.2	0.2	250	7/15/2012 11:30	0	0	0.1	-0.2	Drilling SB-20, sunny
242	7/15/2012 11:31	0.2	0.2	0.2	251	7/15/2012 11:31	0	0	0.1	-0.2	Drilling SB-20, sunny
243	7/15/2012 11:32	0.2	0.2	0.2	252	7/15/2012 11:32	0	0	0.1	-0.2	Drilling SB-20, sunny
244	7/15/2012 11:33	0.2	0.2	0.3	253	7/15/2012 11:33	0	0	0.1	-0.2	Drilling SB-20, sunny
245	7/15/2012 11:34	0.2	0.2	0.2	254	7/15/2012 11:34	0	0	0.1	-0.2	Drilling SB-20, sunny
246	7/15/2012 11:35	0.2	0.2	0.2	255	7/15/2012 11:35	0	0	0.1	-0.2	Drilling SB-20, sunny
247	7/15/2012 11:36	0.2	0.2	0.2	256	7/15/2012 11:36	0	0	0.1	-0.2	Drilling SB-20, sunny
248	7/15/2012 11:37	0.2	0.2	0.3	257	7/15/2012 11:37	0	0	0.1	-0.2	Drilling SB-20, sunny
249	7/15/2012 11:38	0.2	0.2	0.2	258	7/15/2012 11:38	0	0	0.1	-0.2	Drilling SB-20, sunny
250	7/15/2012 11:39	0.2	0.2	0.3	259	7/15/2012 11:39	0	0	0.1	-0.2	Drilling SB-20, sunny
251	7/15/2012 11:40	0.2	0.2	0.2	260	7/15/2012 11:40	0	0	0.1	-0.2	Drilling SB-20, sunny
252	7/15/2012 11:41	0.2	0.2	0.2	261	7/15/2012 11:41	0	0	0.2	-0.2	Drilling SB-20, sunny
253	7/15/2012 11:42	0.2	0.2	0.2	262	7/15/2012 11:42	0	0	0.1	-0.2	Drilling SB-20, sunny
254	7/15/2012 11:43	0.2	0.2	0.2	263	7/15/2012 11:43	0	0	0.1	-0.2	Drilling SB-20, sunny
255	7/15/2012 11:44	0.2	0.2	0.2	264	7/15/2012 11:44	0	0	0.1	-0.2	Drilling SB-20, sunny
256	7/15/2012 11:45	0.2	0.2	0.2	265	7/15/2012 11:45	0	0	0.1	-0.2	Drilling SB-20, sunny
257	7/15/2012 11:46	0.2	0.2	0.2	266	7/15/2012 11:46	0	0	0.1	-0.2	Drilling SB-20, sunny
258	7/15/2012 11:47	0.2	0.2	0.2	267	7/15/2012 11:47	0	0	0.1	-0.2	Drilling SB-20, sunny
259	7/15/2012 11:48	0.2	0.2	0.2	268	7/15/2012 11:48	0	0	0.1	-0.2	Drilling SB-20, sunny
260	7/15/2012 11:49	0.2	0.2	0.3	269	7/15/2012 11:49	0	0	0.2	-0.2	Drilling SB-20, sunny
261	7/15/2012 11:50	0.2	0.2	0.3	270	7/15/2012 11:50	0	0	0.1	-0.2	Drilling SB-20, sunny
262	7/15/2012 11:51	0.2	0.2	0.3	271	7/15/2012 11:51	0	0	0.1	-0.2	Drilling SB-20, sunny
263	7/15/2012 11:52	0.2	0.2	0.3	272	7/15/2012 11:52	0	0	0.1	-0.2	Drilling SB-20, sunny
264	7/15/2012 11:53	0.2	0.2	0.3	273	7/15/2012 11:53	0	0	0.3	-0.2	Drilling SB-20, sunny
265	7/15/2012 11:54	0.2	0.2	0.3	274	7/15/2012 11:54	0	0	0.1	-0.2	Drilling SB-20, sunny
266	7/15/2012 11:55	0.2	0.2	0.3	275	7/15/2012 11:55	0	0	0.1	-0.2	Drilling SB-20, sunny
267	7/15/2012 11:56	0.2	0.2	0.3	276	7/15/2012 11:56	0	0	0.1	-0.2	Drilling SB-20, sunny
268	7/15/2012 11:57	0.2	0.2	0.3	277	7/15/2012 11:57	0	0	0.1	-0.2	Drilling SB-20, sunny
269	7/15/2012 11:58	0.2	0.2	0.3	278	7/15/2012 11:58	0	0	0.1	-0.2	Drilling SB-20, sunny
270	7/15/2012 11:59	0.2	0.2	0.3	279	7/15/2012 11:59	0	0	0.1	-0.2	Drilling SB-20, sunny
271	7/15/2012 12:00	0.2	0.2	0.3	280	7/15/2012 12:00	0	0	0.2	-0.2	Drilling SB-20, sunny
272	7/15/2012 12:01	0.2	0.2	0.3	281	7/15/2012 12:01	0	0	0.1	-0.2	Drilling SB-20, sunny
273	7/15/2012 12:02	0.2	0.2	0.3	282	7/15/2012 12:02	0	0	0.1	-0.2	Drilling SB-20, sunny
274	7/15/2012 12:03	0.2	0.2	0.3	283	7/15/2012 12:03	0	0	0.2	-0.2	Drilling SB-20, sunny

275	7/15/2012 12:04	0.3	0.3	0.3	284	7/15/2012 12:04	0	0	0.1	-0.3	Drilling SB-20, sunny
276	7/15/2012 12:05	0.3	0.3	0.3	285	7/15/2012 12:05	0	0	0.1	-0.3	Drilling SB-20, sunny
277	7/15/2012 12:06	0.3	0.3	0.3	286	7/15/2012 12:06	0	0	0.1	-0.3	Drilling SB-20, sunny
278	7/15/2012 12:07	0.3	0.3	0.3	287	7/15/2012 12:07	0	0	0.1	-0.3	Drilling SB-20, sunny
279	7/15/2012 12:08	0.3	0.3	0.3	288	7/15/2012 12:08	0	0	0.1	-0.3	Drilling SB-20, sunny
280	7/15/2012 12:09	0.3	0.3	0.4	289	7/15/2012 12:09	0	0	0.1	-0.3	Drilling SB-20, sunny
281	7/15/2012 12:10	0.3	0.3	0.4	290	7/15/2012 12:10	0	0	0.2	-0.3	Drilling SB-20, sunny
282	7/15/2012 12:11	0.3	0.3	0.3	291	7/15/2012 12:11	0	0	0.1	-0.3	Drilling SB-20, sunny
283	7/15/2012 12:12	0.3	0.3	0.3	292	7/15/2012 12:12	0	0	0.1	-0.3	Drilling SB-20, sunny
284	7/15/2012 12:13	0.3	0.3	0.3	293	7/15/2012 12:13	0	0	0.1	-0.3	Drilling SB-20, sunny
285	7/15/2012 12:14	0.3	0.3	0.3	294	7/15/2012 12:14	0	0	0.1	-0.3	Drilling SB-20, sunny
286	7/15/2012 12:15	0.3	0.3	0.4	295	7/15/2012 12:15	0	0	0.1	-0.3	Drilling SB-20, sunny
287	7/15/2012 12:16	0.3	0.3	0.4	296	7/15/2012 12:16	0	0	0.1	-0.3	Drilling SB-20, sunny
288	7/15/2012 12:17	0.3	0.3	0.4	297	7/15/2012 12:17	0	0	0.1	-0.3	Drilling SB-20, sunny
289	7/15/2012 12:18	0.3	0.3	0.4	298	7/15/2012 12:18	0	0	0.1	-0.3	Drilling SB-20, sunny
290	7/15/2012 12:19	0.3	0.3	0.3	299	7/15/2012 12:19	0	0	0.1	-0.3	Drilling SB-20, sunny
291	7/15/2012 12:20	0.3	0.3	0.4	300	7/15/2012 12:20	0	0	0.1	-0.3	Drilling SB-20, sunny
292	7/15/2012 12:21	0.3	0.3	0.3	301	7/15/2012 12:21	0	0	0.1	-0.3	Drilling SB-20, sunny
293	7/15/2012 12:22	0.3	0.3	0.4	302	7/15/2012 12:22	0	0	0.1	-0.3	Drilling SB-20, sunny
294	7/15/2012 12:23	0.3	0.3	0.4	303	7/15/2012 12:23	0	0	0	-0.3	Drilling SB-20, sunny
295	7/15/2012 12:24	0.3	0.3	0.3	304	7/15/2012 12:24	0	0	0.1	-0.3	Drilling SB-20, sunny
296	7/15/2012 12:25	0.3	0.3	0.3	305	7/15/2012 12:25	0	0	0.1	-0.3	Drilling SB-20, sunny
297	7/15/2012 12:26	0.3	0.3	0.3	306	7/15/2012 12:26	0	0	0.1	-0.3	Drilling SB-20, sunny
298	7/15/2012 12:27	0.3	0.3	0.3	307	7/15/2012 12:27	0	0	0.1	-0.3	Drilling SB-20, sunny
299	7/15/2012 12:28	0.3	0.3	0.3	308	7/15/2012 12:28	0	0	0.1	-0.3	Drilling SB-20, sunny
300	7/15/2012 12:29	0.3	0.3	0.3	309	7/15/2012 12:29	0	0	0.1	-0.3	Drilling SB-20, sunny
301	7/15/2012 12:30	0.3	0.3	0.3	310	7/15/2012 12:30	0	0	0.1	-0.3	Drilling SB-20, sunny
302	7/15/2012 12:31	0.3	0.3	0.3	311	7/15/2012 12:31	0	0	0.1	-0.3	Drilling SB-20, sunny
303	7/15/2012 12:32	0.3	0.3	0.3	312	7/15/2012 12:32	0	0	0.1	-0.3	Drilling SB-20, sunny
304	7/15/2012 12:33	0.3	0.3	0.3	313	7/15/2012 12:33	0	0	0.1	-0.3	Drilling SB-20, sunny
305	7/15/2012 12:34	0.3	0.3	0.3	314	7/15/2012 12:34	0	0	0.1	-0.3	Drilling SB-20, sunny
306	7/15/2012 12:35	0.3	0.3	0.3	315	7/15/2012 12:35	0	0	0.1	-0.3	Drilling SB-20, sunny
307	7/15/2012 12:36	0.3	0.3	0.3	316	7/15/2012 12:36	0	0	0.1	-0.3	Drilling SB-20, sunny
308	7/15/2012 12:37	0.3	0.3	0.4	317	7/15/2012 12:37	0	0	0.1	-0.3	Drilling SB-20, sunny
309	7/15/2012 12:38	0.3	0.3	0.3	318	7/15/2012 12:38	0	0	0.1	-0.3	Drilling SB-20, sunny
310	7/15/2012 12:39	0.3	0.3	0.3	319	7/15/2012 12:39	0	0	0.1	-0.3	Drilling SB-20, sunny
311	7/15/2012 12:40	0.3	0.3	0.3	320	7/15/2012 12:40	0	0	0.1	-0.3	Drilling SB-20, sunny
312	7/15/2012 12:41	0.3	0.3	0.3	321	7/15/2012 12:41	0	0	0.1	-0.3	Drilling SB-20, sunny
313	7/15/2012 12:42	0.3	0.3	0.3	322	7/15/2012 12:42	0	0	0.1	-0.3	Drilling SB-20, sunny
314	7/15/2012 12:43	0.3	0.3	0.4	323	7/15/2012 12:43	0	0	0.1	-0.3	Drilling SB-20, overcast
315	7/15/2012 12:44	0.3	0.3	0.3	324	7/15/2012 12:44	0	0	0.1	-0.3	Drilling SB-20, overcast
316	7/15/2012 12:45	0.3	0.3	0.4	325	7/15/2012 12:45	0	0	0.1	-0.3	Drilling SB-20, overcast
317	7/15/2012 12:46	0.3	0.3	0.3	326	7/15/2012 12:46	0	0	0.1	-0.3	Drilling SB-20, overcast
318	7/15/2012 12:47	0.3	0.3	0.3	327	7/15/2012 12:47	0	0	0.1	-0.3	Drilling SB-20, overcast
319	7/15/2012 12:48	0.3	0.3	0.3	328	7/15/2012 12:48	0	0	0.1	-0.3	Drilling SB-20, overcast
320	7/15/2012 12:49	0.3	0.3	0.3	329	7/15/2012 12:49	0	0	0.1	-0.3	Drilling SB-20, overcast
321	7/15/2012 12:50	0.3	0.3	0.3	330	7/15/2012 12:50	0	0	0.2	-0.3	Drilling SB-20, overcast
322	7/15/2012 12:51	0.3	0.3	0.4	331	7/15/2012 12:51	0	0	0.1	-0.3	Drilling SB-20, overcast
323	7/15/2012 12:52	0.3	0.3	0.4	332	7/15/2012 12:52	0	0	0.1	-0.3	Drilling SB-20, overcast
324	7/15/2012 12:53	0.3	0.3	0.3	333	7/15/2012 12:53	0	0	0.1	-0.3	Drilling SB-20, overcast
325	7/15/2012 12:54	0.3	0.3	0.3	334	7/15/2012 12:54	0	0	0.1	-0.3	Drilling SB-20, overcast
326	7/15/2012 12:55	0.3	0.3	0.3	335	7/15/2012 12:55	0	0	0.1	-0.3	Drilling SB-20, overcast
327	7/15/2012 12:56	0.3	0.3	0.3	336	7/15/2012 12:56	0	0	0.1	-0.3	Drilling SB-20, overcast
328	7/15/2012 12:57	0.3	0.3	0.3	337	7/15/2012 12:57	0	0	0.1	-0.3	Drilling SB-20, overcast
329	7/15/2012 12:58	0.3	0.3	0.3	338	7/15/2012 12:58	0	0	0.1	-0.3	Drilling SB-20, overcast
330	7/15/2012 12:59	0.3	0.3	0.3	339	7/15/2012 12:59	0	0	0.1	-0.3	Drilling SB-20, overcast
331	7/15/2012 13:00	0.3	0.3	0.3	340	7/15/2012 13:00	0	0	0.1	-0.3	Drilling SB-20, overcast
332	7/15/2012 13:01	0.3	0.3	0.3	341	7/15/2012 13:01	0	0	0.1	-0.3	Drilling SB-20, overcast
333	7/15/2012 13:02	0.3	0.3	0.3	342	7/15/2012 13:02	0	0	0.1	-0.3	Drilling SB-20, overcast
334	7/15/2012 13:03	0.3	0.3	0.3	343	7/15/2012 13:03	0	0	0.1	-0.3	Drilling SB-20, overcast
335	7/15/2012 13:04	0.3	0.3	0.3	344	7/15/2012 13:04	0	0	0.1	-0.3	Drilling SB-20, overcast
336	7/15/2012 13:05	0.3	0.3	0.3	345	7/15/2012 13:05	0	0	0.1	-0.3	Drilling SB-20, overcast
337	7/15/2012 13:06	0.3	0.3	0.3	346	7/15/2012 13:06	0	0	0.1	-0.3	Drilling SB-20, overcast
338	7/15/2012 13:07	0.3	0.3	0.3	347	7/15/2012 13:07	0	0	0.1	-0.3	Drilling SB-20, overcast
339	7/15/2012 13:08	0.3	0.3	0.3	348	7/15/2012 13:08	0	0	0.1	-0.3	Drilling SB-20, overcast
340	7/15/2012 13:09	0.3	0.3	0.3	349	7/15/2012 13:09	0	0	0.1	-0.3	Drilling SB-20, overcast
341	7/15/2012 13:10	0.3	0.3	0.3	350	7/15/2012 13:10	0	0	0.1	-0.3	Drilling SB-20, overcast
342	7/15/2012 13:11	0.3	0.3	0.3	351	7/15/2012 13:11	0	0	0.1	-0.3	Drilling SB-20, overcast
343	7/15/2012 13:12	0.3	0.3	0.3	352	7/15/2012 13:12	0	0	0.1	-0.3	Drilling SB-20, overcast
344	7/15/2012 13:13	0.3	0.3	0.3	353	7/15/2012 13:13	0	0	0.1	-0.3	Drilling SB-20, overcast
345	7/15/2012 13:14	0.3	0.3	0.3	354	7/15/2012 13:14	0	0	0.1	-0.3	Drilling SB-20, overcast
346	7/15/2012 13:15	0.3	0.3	0.3	355	7/15/2012 13:15	0	0	0.1	-0.3	Drilling SB-20, overcast
347	7/15/2012 13:16	0.3	0.3	0.3	356	7/15/2012 13:16	0	0	0.1	-0.3	Drilling SB-20, overcast
348	7/15/2012 13:17	0.3	0.3	0.3	357	7/15/2012 13:17	0	0	0.1	-0.3	Drilling SB-20, overcast

349	7/15/2012 13:18	0.3	0.3	0.3	358	7/15/2012 13:18	0	0	0.1	-0.3	Drilling SB-20, overcast
350	7/15/2012 13:19	0.3	0.3	0.3	359	7/15/2012 13:19	0	0	0.1	-0.3	Drilling SB-20, overcast
351	7/15/2012 13:20	0.3	0.3	0.3	360	7/15/2012 13:20	0	0	0.1	-0.3	Drilling SB-20, overcast
352	7/15/2012 13:21	0.3	0.3	0.3	361	7/15/2012 13:21	0	0	0.1	-0.3	Drilling SB-20, overcast
353	7/15/2012 13:22	0.3	0.3	0.3	362	7/15/2012 13:22	0	0	0.1	-0.3	Drilling SB-20, overcast
354	7/15/2012 13:23	0.3	0.3	0.3	363	7/15/2012 13:23	0	0	0.1	-0.3	Drilling SB-20, overcast
355	7/15/2012 13:24	0.3	0.3	0.3	364	7/15/2012 13:24	0	0	0.1	-0.3	Drilling SB-20, overcast
356	7/15/2012 13:25	0.2	0.2	0.3	365	7/15/2012 13:25	0	0	0.1	-0.2	Drilling SB-20, overcast
357	7/15/2012 13:26	0.3	0.3	0.3	366	7/15/2012 13:26	0	0	0.1	-0.3	Drilling SB-20, overcast
358	7/15/2012 13:27	0.2	0.2	0.3	367	7/15/2012 13:27	0	0	0.1	-0.2	Drilling SB-20, overcast
359	7/15/2012 13:28	0.3	0.3	0.3	368	7/15/2012 13:28	0	0	0.1	-0.3	Drilling SB-20, overcast
360	7/15/2012 13:29	0.2	0.2	0.3	369	7/15/2012 13:29	0	0	0.1	-0.2	Drilling SB-20, overcast
361	7/15/2012 13:30	0.2	0.2	0.3	370	7/15/2012 13:30	0	0	0.1	-0.2	Drilling SB-20, overcast
362	7/15/2012 13:31	0.2	0.2	0.3	371	7/15/2012 13:31	0	0	0.3	-0.2	Drilling SB-20, overcast
363	7/15/2012 13:32	0.2	0.2	0.3	372	7/15/2012 13:32	0	0	0.1	-0.2	Drilling SB-20, overcast
364	7/15/2012 13:33	0.2	0.2	0.3	373	7/15/2012 13:33	0	0	0.1	-0.2	Drilling SB-20, overcast
365	7/15/2012 13:34	0.3	0.3	0.3	374	7/15/2012 13:34	0	0	0.2	-0.3	Drilling SB-20, overcast
366	7/15/2012 13:35	0.2	0.2	0.3	375	7/15/2012 13:35	0	0	0.1	-0.2	Drilling SB-20, overcast
367	7/15/2012 13:36	0.3	0.3	0.3	376	7/15/2012 13:36	0	0	0.1	-0.3	Drilling SB-20, overcast
368	7/15/2012 13:37	0.2	0.2	0.3	377	7/15/2012 13:37	0	0	0.1	-0.2	Drilling SB-20, overcast
369	7/15/2012 13:38	0.2	0.2	0.3	378	7/15/2012 13:38	0	0	0.1	-0.2	Drilling SB-20, overcast
370	7/15/2012 13:39	0.2	0.2	0.3	379	7/15/2012 13:39	0	0	0.1	-0.2	Drilling SB-20, overcast
371	7/15/2012 13:40	0.2	0.2	0.3	380	7/15/2012 13:40	0	0	0.2	-0.2	Drilling SB-20, overcast
372	7/15/2012 13:41	0.2	0.2	0.3	381	7/15/2012 13:41	0	0	0.1	-0.2	Drilling SB-20, overcast
373	7/15/2012 13:42	0.2	0.2	0.3	382	7/15/2012 13:42	0	0	0.1	-0.2	Drilling SB-20, overcast
374	7/15/2012 13:43	0.2	0.2	0.3	383	7/15/2012 13:43	0	0	0.1	-0.2	Drilling SB-20, overcast
375	7/15/2012 13:44	0.2	0.2	0.3	384	7/15/2012 13:44	0	0	0.1	-0.2	Drilling SB-20, overcast
376	7/15/2012 13:45	0.2	0.2	0.3	385	7/15/2012 13:45	0	0	0.1	-0.2	Drilling SB-20, overcast
377	7/15/2012 13:46	0.2	0.2	0.3	386	7/15/2012 13:46	0	0	0.1	-0.2	Drilling SB-20, overcast
378	7/15/2012 13:47	0.2	0.2	0.3	387	7/15/2012 13:47	0	0	0.1	-0.2	Drilling SB-20, overcast
379	7/15/2012 13:48	0.2	0.2	0.3	388	7/15/2012 13:48	0	0	0.1	-0.2	Drilling SB-20, overcast
380	7/15/2012 13:49	0.2	0.2	0.3	389	7/15/2012 13:49	0	0	0.1	-0.2	Drilling SB-20, overcast
381	7/15/2012 13:50	0.2	0.2	0.3	390	7/15/2012 13:50	0	0	0.1	-0.2	Drilling SB-20, overcast
382	7/15/2012 13:51	0.2	0.2	0.3	391	7/15/2012 13:51	0	0	0.1	-0.2	Drilling SB-20, overcast
383	7/15/2012 13:52	0.3	0.3	0.3	392	7/15/2012 13:52	0	0	0.1	-0.3	Drilling SB-20, overcast
384	7/15/2012 13:53	0.3	0.3	0.3	393	7/15/2012 13:53	0	0	0.1	-0.3	Drilling SB-20, overcast
385	7/15/2012 13:54	0.3	0.3	0.3	394	7/15/2012 13:54	0	0	0.1	-0.3	Drilling SB-20, overcast
386	7/15/2012 13:55	0.3	0.3	0.3	395	7/15/2012 13:55	0	0	0.1	-0.3	Drilling SB-20, overcast
387	7/15/2012 13:56	0.2	0.2	0.3	396	7/15/2012 13:56	0	0	0.1	-0.2	Drilling SB-20, overcast
388	7/15/2012 13:57	0.2	0.2	0.3	397	7/15/2012 13:57	0	0	0.1	-0.2	Drilling SB-20, overcast
389	7/15/2012 13:58	0.3	0.3	0.3	398	7/15/2012 13:58	0	0	0.1	-0.3	Drilling SB-20, overcast
390	7/15/2012 13:59	0.2	0.2	0.3	399	7/15/2012 13:59	0	0	0.1	-0.2	Drilling SB-20, overcast
391	7/15/2012 14:00	0.3	0.3	0.3	400	7/15/2012 14:00	0	0	0.1	-0.3	Drilling SB-20, overcast
392	7/15/2012 14:01	0.3	0.3	0.3	401	7/15/2012 14:01	0	0	0.1	-0.3	Drilling SB-20, overcast
393	7/15/2012 14:02	0.3	0.3	0.3	402	7/15/2012 14:02	0	0	0.1	-0.3	Drilling SB-20, overcast
394	7/15/2012 14:03	0.3	0.3	0.3	403	7/15/2012 14:03	0	0	0.1	-0.3	Drilling SB-20, overcast
395	7/15/2012 14:04	0.3	0.3	0.3	404	7/15/2012 14:04	0	0	0.1	-0.3	Drilling SB-20, overcast
396	7/15/2012 14:05	0.3	0.3	0.3	405	7/15/2012 14:05	0	0	0.1	-0.3	Drilling SB-20, overcast
397	7/15/2012 14:06	0.3	0.3	0.3	406	7/15/2012 14:06	0	0	0.1	-0.3	Drilling SB-20, overcast
398	7/15/2012 14:07	0.3	0.3	0.3	407	7/15/2012 14:07	0	0	0.1	-0.3	Drilling SB-20, overcast
399	7/15/2012 14:08	0.3	0.3	0.3	408	7/15/2012 14:08	0	0	0.1	-0.3	Drilling SB-20, overcast
400	7/15/2012 14:09	0.3	0.3	0.5	409	7/15/2012 14:09	0	0	0.1	-0.3	Drilling SB-20, overcast
401	7/15/2012 14:10	0.3	0.3	0.4	410	7/15/2012 14:10	0	0	0.1	-0.3	Drilling SB-20, overcast
402	7/15/2012 14:11	0.3	0.3	0.3	411	7/15/2012 14:11	0	0	0.1	-0.3	Drilling SB-20, overcast
403	7/15/2012 14:12	0.3	0.3	0.3	412	7/15/2012 14:12	0	0	0.1	-0.3	Drilling SB-20, overcast
404	7/15/2012 14:13	0.3	0.3	0.3	413	7/15/2012 14:13	0	0	0.1	-0.3	Drilling SB-20, overcast
405	7/15/2012 14:14	0.3	0.3	0.3	414	7/15/2012 14:14	0	0	0.1	-0.3	Drilling SB-20, overcast
406	7/15/2012 14:15	0.3	0.3	0.3	415	7/15/2012 14:15	0	0	0.1	-0.3	Drilling SB-20, overcast
407	7/15/2012 14:16	0.3	0.3	0.3	416	7/15/2012 14:16	0	0	0.1	-0.3	Drilling SB-20, overcast
408	7/15/2012 14:17	0.3	0.3	0.3	417	7/15/2012 14:17	0	0	0.1	-0.3	Drilling SB-20, overcast
409	7/15/2012 14:18	0.3	0.3	0.3	418	7/15/2012 14:18	0	0	0	-0.3	Drilling SB-20, overcast
410	7/15/2012 14:19	0.3	0.3	0.3	419	7/15/2012 14:19	0	0	0.1	-0.3	Drilling SB-20, overcast
411	7/15/2012 14:20	0.3	0.3	0.3	420	7/15/2012 14:20	0	0	0.1	-0.3	Drilling SB-20, overcast
412	7/15/2012 14:21	0.3	0.3	0.3	421	7/15/2012 14:21	0	0	0.1	-0.3	Drilling SB-20, overcast
413	7/15/2012 14:22	0.3	0.3	0.3	422	7/15/2012 14:22	0	0	0.1	-0.3	Drilling SB-20, overcast
414	7/15/2012 14:23	0.3	0.3	0.3	423	7/15/2012 14:23	0	0	0	-0.3	Drilling SB-20, overcast
415	7/15/2012 14:24	0.3	0.3	0.3	424	7/15/2012 14:24	0	0	0.1	-0.3	Drilling SB-20, overcast
416	7/15/2012 14:25	0.3	0.3	0.3	425	7/15/2012 14:25	0	0	0.1	-0.3	Drilling SB-20, overcast
417	7/15/2012 14:26	0.3	0.3	0.3	426	7/15/2012 14:26	0	0	0.1	-0.3	Drilling SB-20, overcast
418	7/15/2012 14:27	0.3	0.3	0.3	427	7/15/2012 14:27	0	0	0.1	-0.3	Drilling SB-20, overcast
419	7/15/2012 14:28	0.3	0.3	0.3	428	7/15/2012 14:28	0	0	0	-0.3	Drilling SB-20, overcast
420	7/15/2012 14:29	0.3	0.3	0.3	429	7/15/2012 14:29	0	0	0	-0.3	Drilling SB-20, overcast
421	7/15/2012 14:30	0.3	0.3	0.3	430	7/15/2012 14:30	0	0	0	-0.3	Drilling SB-20, overcast
422	7/15/2012 14:31	0.3	0.3	0.4	431	7/15/2012 14:31	0	0	0.1	-0.3	Drilling SB-20, overcast

423	7/15/2012 14:32	0.3	0.3	0.3	432	7/15/2012 14:32	0	0	0.1	-0.3	Drilling SB-20, overcast
424	7/15/2012 14:33	0.3	0.3	0.3	433	7/15/2012 14:33	0	0	0	-0.3	Drilling SB-20, overcast
425	7/15/2012 14:34	0.3	0.3	0.3	434	7/15/2012 14:34	0	0	0	-0.3	Drilling SB-20, overcast
426	7/15/2012 14:35	0.3	0.3	0.3	435	7/15/2012 14:35	0	0	0.1	-0.3	Drilling SB-20, overcast
427	7/15/2012 14:36	0.3	0.3	0.3	436	7/15/2012 14:36	0	0	0.1	-0.3	Drilling SB-20, overcast
428	7/15/2012 14:37	0.3	0.3	0.3	437	7/15/2012 14:37	0	0	0.1	-0.3	Drilling SB-20, overcast
429	7/15/2012 14:38	0.3	0.3	0.3	438	7/15/2012 14:38	0	0	0.1	-0.3	Drilling SB-20, overcast
430	7/15/2012 14:39	0.3	0.3	0.3	439	7/15/2012 14:39	0	0	0.2	-0.3	Drilling SB-20, overcast
431	7/15/2012 14:40	0.3	0.3	0.3	440	7/15/2012 14:40	0	0	0.1	-0.3	Drilling SB-20, overcast
432	7/15/2012 14:41	0.3	0.3	0.3	441	7/15/2012 14:41	0	0	0.1	-0.3	Drilling SB-20, overcast
433	7/15/2012 14:42	0.3	0.3	0.3	442	7/15/2012 14:42	0	0	0	-0.3	Drilling SB-20, overcast
434	7/15/2012 14:43	0.3	0.3	0.4	443	7/15/2012 14:43	0	0	0.1	-0.3	Drilling SB-20, overcast
435	7/15/2012 14:44	0.3	0.3	0.3	444	7/15/2012 14:44	0	0	0.1	-0.3	Drilling SB-20, overcast
436	7/15/2012 14:45	0.3	0.3	0.3	445	7/15/2012 14:45	0	0	0.1	-0.3	Drilling SB-20, overcast
437	7/15/2012 14:46	0.3	0.3	0.3	446	7/15/2012 14:46	0	0	0.1	-0.3	Drilling SB-20, overcast
438	7/15/2012 14:47	0.3	0.3	0.3	447	7/15/2012 14:47	0	0	0.1	-0.3	Drilling SB-20, overcast
439	7/15/2012 14:48	0.3	0.3	0.3	448	7/15/2012 14:48	0	0	0.1	-0.3	Drilling SB-20, overcast
440	7/15/2012 14:49	0.3	0.3	0.3	449	7/15/2012 14:49	0	0	0	-0.3	Drilling SB-20, overcast
441	7/15/2012 14:50	0.3	0.3	0.3	450	7/15/2012 14:50	0	0	0.1	-0.3	Drilling SB-20, overcast
442	7/15/2012 14:51	0.3	0.3	0.3	451	7/15/2012 14:51	0	0	0.1	-0.3	Drilling SB-20, overcast
443	7/15/2012 14:52	0.3	0.3	0.3	452	7/15/2012 14:52	0	0	0.1	-0.3	Drilling SB-20, overcast
444	7/15/2012 14:53	0.3	0.3	0.3	453	7/15/2012 14:53	0	0	0.2	-0.3	Drilling SB-20, overcast
445	7/15/2012 14:54	0.3	0.3	0.3	454	7/15/2012 14:54	0	0	0.1	-0.3	Drilling SB-20, overcast
446	7/15/2012 14:55	0.3	0.3	0.3	455	7/15/2012 14:55	0	0	0.1	-0.3	Drilling SB-20, overcast
447	7/15/2012 14:56	0.3	0.3	0.3	456	7/15/2012 14:56	0	0	0.1	-0.3	Drilling SB-20, overcast
448	7/15/2012 14:57	0.3	0.3	0.3	457	7/15/2012 14:57	0	0	0.1	-0.3	Drilling SB-20, overcast
449	7/15/2012 14:58	0.3	0.3	0.3	458	7/15/2012 14:58	0	0	0.1	-0.3	Drilling SB-20, overcast
450	7/15/2012 14:59	0.3	0.3	0.3	459	7/15/2012 14:59	0	0	0	-0.3	Drilling SB-20, overcast
451	7/15/2012 15:00	0.3	0.3	0.3	460	7/15/2012 15:00	0	0	0.1	-0.3	Drilling SB-20, overcast
452	7/15/2012 15:01	0.3	0.3	0.3	461	7/15/2012 15:01	0	0	0.1	-0.3	Drilling SB-20, overcast
453	7/15/2012 15:02	0.3	0.3	0.3	462	7/15/2012 15:02	0	0	0.1	-0.3	Drilling SB-20, overcast
454	7/15/2012 15:03	0.3	0.3	0.3	463	7/15/2012 15:03	0	0	0.1	-0.3	Drilling SB-20, overcast
455	7/15/2012 15:04	0.3	0.3	0.3	464	7/15/2012 15:04	0	0	0.1	-0.3	Drilling SB-20, overcast
456	7/15/2012 15:05	0.3	0.3	0.3	465	7/15/2012 15:05	0	0	0.1	-0.3	Drilling SB-20, overcast
457	7/15/2012 15:06	0.3	0.3	0.3	466	7/15/2012 15:06	0	0	0.1	-0.3	Drilling SB-20, overcast
458	7/15/2012 15:07	0.3	0.3	0.3	467	7/15/2012 15:07	0	0	0.1	-0.3	Drilling SB-20, overcast
459	7/15/2012 15:08	0.3	0.3	0.3	468	7/15/2012 15:08	0	0	0	-0.3	Drilling SB-20, overcast
460	7/15/2012 15:09	0.3	0.3	0.3	469	7/15/2012 15:09	0	0	0.1	-0.3	Drilling SB-20, overcast
461	7/15/2012 15:10	0.2	0.2	0.3	470	7/15/2012 15:10	0	0	0.1	-0.2	Drilling SB-20, overcast
462	7/15/2012 15:11	0.3	0.3	0.3	471	7/15/2012 15:11	0	0	0.2	-0.3	Drilling SB-20, overcast
463	7/15/2012 15:12	0.3	0.3	0.3	472	7/15/2012 15:12	0	0	0.1	-0.3	Drilling SB-20, overcast
464	7/15/2012 15:13	0.3	0.3	0.3	473	7/15/2012 15:13	0	0	0.1	-0.3	Drilling SB-20, overcast
465	7/15/2012 15:14	0.2	0.2	0.3	474	7/15/2012 15:14	0	0	0.1	-0.2	Drilling SB-20, overcast
466	7/15/2012 15:15	0.2	0.2	0.3	475	7/15/2012 15:15	0	0	0.1	-0.2	Drilling SB-20, overcast
467	7/15/2012 15:16	0.3	0.3	0.3	476	7/15/2012 15:16	0	0	0.1	-0.3	Drilling SB-20, overcast
468	7/15/2012 15:17	0.2	0.2	0.3	477	7/15/2012 15:17	0	0	0.1	-0.2	Drilling SB-20, overcast
469	7/15/2012 15:18	0.2	0.2	0.3	478	7/15/2012 15:18	0	0	0.1	-0.2	Drilling SB-20, overcast
470	7/15/2012 15:19	0.2	0.2	0.3	479	7/15/2012 15:19	0	0	0.1	-0.2	Drilling SB-20, overcast
471	7/15/2012 15:20	0.2	0.2	0.3	480	7/15/2012 15:20	0	0	0.1	-0.2	Drilling SB-20, overcast
472	7/15/2012 15:21	0.2	0.2	0.3	481	7/15/2012 15:21	0	0	0.1	-0.2	Drilling SB-20, overcast
473	7/15/2012 15:22	0.2	0.2	0.3	482	7/15/2012 15:22	0	0	0.1	-0.2	Drilling SB-20, overcast
474	7/15/2012 15:23	0.2	0.2	0.3	483	7/15/2012 15:23	0	0	0.1	-0.2	Drilling SB-20, overcast
475	7/15/2012 15:24	0.2	0.2	0.3	484	7/15/2012 15:24	0	0	0.1	-0.2	Drilling SB-20, overcast
476	7/15/2012 15:25	0.2	0.2	0.3	485	7/15/2012 15:25	0	0	0.1	-0.2	Drilling SB-20, overcast
477	7/15/2012 15:26	0.2	0.2	0.3	486	7/15/2012 15:26	0	0	0.1	-0.2	Drilling SB-20, overcast
478	7/15/2012 15:27	0.2	0.2	0.3	487	7/15/2012 15:27	0	0	0.1	-0.2	Drilling SB-20, overcast
479	7/15/2012 15:28	0.2	0.2	0.3	488	7/15/2012 15:28	0	0	0.1	-0.2	Drilling SB-20, overcast
480	7/15/2012 15:29	0.2	0.2	0.3	489	7/15/2012 15:29	0	0	0.1	-0.2	Drilling SB-20, overcast
481	7/15/2012 15:30	0.2	0.2	0.3	490	7/15/2012 15:30	0	0	0.1	-0.2	Drilling SB-20, raining
482	7/15/2012 15:31	0.2	0.2	0.3	491	7/15/2012 15:31	0	0	0.1	-0.2	Drilling SB-20, raining
483	7/15/2012 15:32	0.2	0.2	0.3	492	7/15/2012 15:32	0	0	0.1	-0.2	Drilling SB-20, raining
484	7/15/2012 15:33	0.2	0.2	0.3	493	7/15/2012 15:33	0	0	0.1	-0.2	Drilling SB-20, raining
485	7/15/2012 15:34	0.2	0.2	0.3	494	7/15/2012 15:34	0	0	0.1	-0.2	Drilling SB-20, raining
486	7/15/2012 15:35	0.2	0.2	0.3	495	7/15/2012 15:35	0	0	0.1	-0.2	Drilling SB-20, raining
487	7/15/2012 15:36	0.2	0.2	0.3	496	7/15/2012 15:36	0	0	0.1	-0.2	Drilling SB-20, raining
488	7/15/2012 15:37	0.2	0.2	0.3	497	7/15/2012 15:37	0	0	0.1	-0.2	Stopped drilling SB-20
489	7/15/2012 15:38	0.2	0.2	0.2	498	7/15/2012 15:38	0	0	0.1	-0.2	
490	7/15/2012 15:39	0.2	0.2	0.2	499	7/15/2012 15:39	0	0	0.2	-0.2	
491	7/15/2012 15:40	0.2	0.2	0.2	500	7/15/2012 15:40	0	0	0.1	-0.2	
492	7/15/2012 15:41	0.2	0.2	0.2	501	7/15/2012 15:41	0	0	0.1	-0.2	
493	7/15/2012 15:42	0.2	0.2	0.2	502	7/15/2012 15:42	0	0	0.1	-0.2	
494	7/15/2012 15:43	0.2	0.2	0.2	503	7/15/2012 15:43	0	0	0.1	-0.2	
495	7/15/2012 15:44	0.2	0.2	0.2	504	7/15/2012 15:44	0	0.1	0.3	-0.1	
496	7/15/2012 15:45	0.2	0.2	0.2	505	7/15/2012 15:45	0	0.1	0.2	-0.1	

497	7/15/2012 15:46	0.2	0.2	0.2	506	7/15/2012 15:46	0	0.1	0.2	-0.1	
498	7/15/2012 15:47	0.2	0.2	0.2	507	7/15/2012 15:47	0.1	0.1	0.2	-0.1	
499	7/15/2012 15:48	0.2	0.2	0.2	508	7/15/2012 15:48	0	0.1	0.2	-0.1	Shut down CAMP
500	7/15/2012 15:49	0.2	0.2	0.2						-0.2	
501	7/15/2012 15:50	0.2	0.2	0.2						-0.2	
502	7/15/2012 15:51	0.2	0.2	0.2						-0.2	
503	7/15/2012 15:52	0.2	0.2	0.2						-0.2	

indicates high reading
indicates high reading with exceedance

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902685
User ID: 00000001 Site ID: 00000139
Data Points: 314 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/16/2012 09:15

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	7/16/2012 9:18	0.8		1		1.5	
2	7/16/2012 9:19	0.5		0.6		0.8	
3	7/16/2012 9:20	0.4		0.4		0.5	
4	7/16/2012 9:21	0.3		0.3		0.4	
5	7/16/2012 9:22	0.3		0.3		0.3	
6	7/16/2012 9:23	0.2		0.2		0.3	
7	7/16/2012 9:24	0.3		0.3		0.3	
8	7/16/2012 9:25	0.3		0.3		0.3	
9	7/16/2012 9:26	0.3		0.3		0.3	
10	7/16/2012 9:27	0.2		0.2		0.3	
11	7/16/2012 9:28	0.2		0.2		0.3	
12	7/16/2012 9:29	0.2		0.2		0.2	
13	7/16/2012 9:30	0.2		0.2		0.2	
14	7/16/2012 9:31	0.2		0.2		0.2	
15	7/16/2012 9:32	0.2		0.2		0.2	
16	7/16/2012 9:33	0.2		0.2		0.2	
17	7/16/2012 9:34	0.2		0.2		0.2	
18	7/16/2012 9:35	0.2		0.2		0.3	
19	7/16/2012 9:36	0.3		0.3		0.4	
20	7/16/2012 9:37	0.2		0.2		0.3	
21	7/16/2012 9:38	0.2		0.2		0.3	
22	7/16/2012 9:39	0.2		0.2		0.3	
23	7/16/2012 9:40	0.2		0.2		0.3	
24	7/16/2012 9:41	0.2		0.2		0.3	
25	7/16/2012 9:42	0.2		0.2		0.3	
26	7/16/2012 9:43	0.3		0.3		0.4	
27	7/16/2012 9:44	0.3		0.3		0.4	
28	7/16/2012 9:45	0.2		0.2		0.3	
29	7/16/2012 9:46	0.2		0.2		0.3	
30	7/16/2012 9:47	0.3		0.3		0.4	
31	7/16/2012 9:48	0.3		0.3		0.4	
32	7/16/2012 9:49	0.3		0.3		0.4	
33	7/16/2012 9:50	0.3		0.3		0.4	
34	7/16/2012 9:51	0.3		0.3		0.4	
35	7/16/2012 9:52	0.3		0.3		0.3	
36	7/16/2012 9:53	0.3		0.3		0.3	
37	7/16/2012 9:54	0.2		0.2		0.3	
38	7/16/2012 9:55	0.2		0.2		0.3	
39	7/16/2012 9:56	0.2		0.2		0.3	
40	7/16/2012 9:57	0.3		0.3		0.4	
41	7/16/2012 9:58	0.2		0.2		0.3	
42	7/16/2012 9:59	0.3		0.3		0.3	
43	7/16/2012 10:00	0.3		0.3		0.3	
44	7/16/2012 10:01	0.3		0.3		0.3	
45	7/16/2012 10:02	0.3		0.3		0.4	
46	7/16/2012 10:03	0.3		0.3		0.3	
47	7/16/2012 10:04	0.3		0.3		0.3	
48	7/16/2012 10:05	0.3		0.3		0.3	
49	7/16/2012 10:06	0.3		0.3		0.3	
50	7/16/2012 10:07	0.3		0.3		0.3	
51	7/16/2012 10:08	0.3		0.3		0.3	
52	7/16/2012 10:09	0.3		0.3		0.3	
53	7/16/2012 10:10	0.3		0.3		0.3	

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005302
User ID: 00000001 Site ID: 00000123
Data Points: 315 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 07/16/2012 09:12

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Difference	Comments
1	7/16/2012 9:13	0		0		0	-1	
2	7/16/2012 9:14	0		0		0	-0.6	
3	7/16/2012 9:15	0		0		0	-0.4	
4	7/16/2012 9:16	0		0		0	-0.3	
5	7/16/2012 9:17	0		0		0	-0.3	
6	7/16/2012 9:18	0		0		0	-0.2	
7	7/16/2012 9:19	0		0		0	-0.3	
8	7/16/2012 9:20	0		0		0	-0.3	
9	7/16/2012 9:21	0		0		0	-0.3	
10	7/16/2012 9:22	0		0		0	-0.2	
11	7/16/2012 9:23	0		0		0	-0.2	
12	7/16/2012 9:24	0		0		0	-0.2	
13	7/16/2012 9:25	0		0		0	-0.2	
14	7/16/2012 9:26	0		0		0	-0.2	
15	7/16/2012 9:27	0		0		0	-0.2	
16	7/16/2012 9:28	0		0		0	-0.2	
17	7/16/2012 9:29	0		0		0	-0.2	
18	7/16/2012 9:30	0		0		0	-0.2	
19	7/16/2012 9:31	0		0		0	-0.3	
20	7/16/2012 9:32	0		0		0	-0.2	
21	7/16/2012 9:33	0		0		0	-0.2	
22	7/16/2012 9:34	0		0		0	-0.2	
23	7/16/2012 9:35	0		0		0	-0.2	
24	7/16/2012 9:36	0		0		0	-0.2	
25	7/16/2012 9:37	0		0		0	-0.2	
26	7/16/2012 9:38	0		0		0	-0.3	
27	7/16/2012 9:39	0		0		0	-0.3	
28	7/16/2012 9:40	0		0		0	-0.2	
29	7/16/2012 9:41	0		0		0	-0.2	
30	7/16/2012 9:42	0		0		0	-0.3	
31	7/16/2012 9:43	0		0		0.1	-0.3	
32	7/16/2012 9:44	0		0		0.1	-0.3	
33	7/16/2012 9:45	0		0		0	-0.3	
34	7/16/2012 9:46	0		0		0	-0.3	
35	7/16/2012 9:47	0		0		0	-0.3	
36	7/16/2012 9:48	0		0		0	-0.3	
37	7/16/2012 9:49	0		0		0	-0.2	
38	7/16/2012 9:50	0		0		0	-0.2	
39	7/16/2012 9:51	0		0		0	-0.2	
40	7/16/2012 9:52	0		0		0	-0.3	
41	7/16/2012 9:53	0		0		0	-0.2	
42	7/16/2012 9:54	0		0		0	-0.3	
43	7/16/2012 9:55	0		0		0	-0.3	
44	7/16/2012 9:56	0		0		0	-0.3	
45	7/16/2012 9:57	0		0		0	-0.3	
46	7/16/2012 9:58	0		0		0	-0.3	
47	7/16/2012 9:59	0		0		0	-0.3	
48	7/16/2012 10:00	0		0		0	-0.3	
49	7/16/2012 10:01	0		0		0	-0.3	
50	7/16/2012 10:02	0		0		0	-0.3	
51	7/16/2012 10:03	0		0		0	-0.3	
52	7/16/2012 10:04	0		0		0	-0.3	
53	7/16/2012 10:05	0		0.1		0.3	-0.2	

54	7/16/2012 10:11	0.3	0.4	0.6	54	7/16/2012 10:06	0	0	0	-0.4
55	7/16/2012 10:12	0.4	0.4	0.5	55	7/16/2012 10:07	0	0	0.2	-0.4
56	7/16/2012 10:13	0.4	0.4	0.5	56	7/16/2012 10:08	0	0	0.3	-0.4
57	7/16/2012 10:14	0.5	0.5	0.6	57	7/16/2012 10:09	0	0	0.1	-0.5
58	7/16/2012 10:15	0.4	0.5	0.6	58	7/16/2012 10:10	0	0	0.1	-0.5
59	7/16/2012 10:16	0.5	0.5	0.6	59	7/16/2012 10:11	0	0.1	0.3	-0.4
60	7/16/2012 10:17	0.6	0.7	0.8	60	7/16/2012 10:12	0	0	0.2	-0.7
61	7/16/2012 10:18	0.6	0.6	0.8	61	7/16/2012 10:13	0	0	0	-0.6
62	7/16/2012 10:19	0.5	0.5	0.6	62	7/16/2012 10:14	0	0	0	-0.5
63	7/16/2012 10:20	0.4	0.4	0.5	63	7/16/2012 10:15	0	0	0	-0.4
64	7/16/2012 10:21	0.5	0.6	0.7	64	7/16/2012 10:16	0	0	0	-0.6
65	7/16/2012 10:22	0.5	0.5	0.6	65	7/16/2012 10:17	0	0	0.1	-0.5
66	7/16/2012 10:23	0.5	0.5	0.6	66	7/16/2012 10:18	0	0	0	-0.5
67	7/16/2012 10:24	0.5	0.5	0.6	67	7/16/2012 10:19	0	0	0	-0.5
68	7/16/2012 10:25	0.5	0.5	0.5	68	7/16/2012 10:20	0	0	0	-0.5
69	7/16/2012 10:26	0.5	0.5	0.5	69	7/16/2012 10:21	0	0	0	-0.5
70	7/16/2012 10:27	0.5	0.5	0.5	70	7/16/2012 10:22	0	0	0.3	-0.5
71	7/16/2012 10:28	0.5	0.5	0.6	71	7/16/2012 10:23	0.2	0.3	0.5	-0.2
72	7/16/2012 10:29	0.6	0.6	0.7	72	7/16/2012 10:24	0	0	0.2	-0.6
73	7/16/2012 10:30	0.6	0.6	0.7	73	7/16/2012 10:25	0	0	0.2	-0.6
74	7/16/2012 10:31	0.6	0.6	0.7	74	7/16/2012 10:26	0	0	0.2	-0.6
75	7/16/2012 10:32	0.6	0.6	0.7	75	7/16/2012 10:27	0	0	0	-0.6
76	7/16/2012 10:33	0.6	0.6	0.7	76	7/16/2012 10:28	0	0	0	-0.6
77	7/16/2012 10:34	0.6	0.6	0.6	77	7/16/2012 10:29	0	0	0.1	-0.6
78	7/16/2012 10:35	0.6	0.6	0.7	78	7/16/2012 10:30	0	0	0	-0.6
79	7/16/2012 10:36	0.6	0.6	0.7	79	7/16/2012 10:31	0	0	0	-0.6
80	7/16/2012 10:37	0.6	0.6	0.7	80	7/16/2012 10:32	0	0	0	-0.6
81	7/16/2012 10:38	0.6	0.6	0.6	81	7/16/2012 10:33	0	0	0	-0.6
82	7/16/2012 10:39	0.6	0.6	0.6	82	7/16/2012 10:34	0	0	0	-0.6
83	7/16/2012 10:40	0.6	0.6	0.7	83	7/16/2012 10:35	0	0.4	1	-0.2
84	7/16/2012 10:41	0.7	0.9	1.2	84	7/16/2012 10:36	0.2	0.4	0.8	-0.5
85	7/16/2012 10:42	1.1	1.1	1.3	85	7/16/2012 10:37	0.2	0.3	0.7	-0.8
86	7/16/2012 10:43	1.1	1.1	1.3	86	7/16/2012 10:38	0.2	0.4	0.7	-0.7
87	7/16/2012 10:44	1.2	1.3	1.4	87	7/16/2012 10:39	0	0.1	0.3	-1.2
88	7/16/2012 10:45	1	1	1.2	88	7/16/2012 10:40	0	0.1	0.4	-0.9
89	7/16/2012 10:46	0.9	1	1.1	89	7/16/2012 10:41	0	0	0.2	-1
90	7/16/2012 10:47	0.8	0.9	1	90	7/16/2012 10:42	0	0.1	0.4	-0.8
91	7/16/2012 10:48	0.8	0.9	1.1	91	7/16/2012 10:43	0	0	0.2	-0.9
92	7/16/2012 10:49	0.8	0.9	1	92	7/16/2012 10:44	0	0	0.3	-0.9
93	7/16/2012 10:50	0.8	0.8	0.9	93	7/16/2012 10:45	0	0.1	0.3	-0.7
94	7/16/2012 10:51	0.8	0.8	1	94	7/16/2012 10:46	0	0.1	0.2	-0.7
95	7/16/2012 10:52	0.9	0.9	1	95	7/16/2012 10:47	0	0	0.2	-0.9
96	7/16/2012 10:53	0.9	0.9	1.1	96	7/16/2012 10:48	0	0	0.1	-0.9
97	7/16/2012 10:54	0.8	0.8	0.9	97	7/16/2012 10:49	0	0	0	-0.8
98	7/16/2012 10:55	0.8	0.8	0.9	98	7/16/2012 10:50	0	0	0	-0.8
99	7/16/2012 10:56	0.7	0.7	0.8	99	7/16/2012 10:51	0	0	0	-0.7
100	7/16/2012 10:57	0.7	0.7	0.8	100	7/16/2012 10:52	0	0.1	0.6	-0.6
101	7/16/2012 10:58	0.7	0.9	1.3	101	7/16/2012 10:53	0	0.2	0.6	-0.7
102	7/16/2012 10:59	1.1	1.3	1.4	102	7/16/2012 10:54	0	0.1	0.5	-1.2
103	7/16/2012 11:00	1	1	1.1	103	7/16/2012 10:55	0	0	0.4	-1
104	7/16/2012 11:01	0.9	0.9	1	104	7/16/2012 10:56	0	0	0	-0.9
105	7/16/2012 11:02	0.8	0.8	0.9	105	7/16/2012 10:57	0	0	0	-0.8
106	7/16/2012 11:03	0.7	0.7	0.8	106	7/16/2012 10:58	0	0	0	-0.7
107	7/16/2012 11:04	0.7	0.7	0.8	107	7/16/2012 10:59	0	0	0.2	-0.7
108	7/16/2012 11:05	0.7	0.7	0.9	108	7/16/2012 11:00	0	0.1	0.3	-0.6
109	7/16/2012 11:06	0.9	0.9	1.1	109	7/16/2012 11:01	0	0	0.2	-0.9
110	7/16/2012 11:07	0.9	1	1.1	110	7/16/2012 11:02	0	0	0	-1
111	7/16/2012 11:08	0.8	0.9	1	111	7/16/2012 11:03	0	0.1	0.5	-0.8
112	7/16/2012 11:09	0.8	0.9	1.1	112	7/16/2012 11:04	0	0	0.3	-0.9
113	7/16/2012 11:10	1	1	1.2	113	7/16/2012 11:05	0	0	0.1	-1
114	7/16/2012 11:11	0.8	0.9	1	114	7/16/2012 11:06	0	0	0	-0.9
115	7/16/2012 11:12	0.8	0.8	0.8	115	7/16/2012 11:07	0	0	0	-0.8
116	7/16/2012 11:13	0.7	0.7	0.8	116	7/16/2012 11:08	0	0	0	-0.7
117	7/16/2012 11:14	0.7	0.7	0.8	117	7/16/2012 11:09	0	0	0	-0.7

118	7/16/2012 11:15	0.7	0.7	0.8	118	7/16/2012 11:10	0	0	0	-0.7
119	7/16/2012 11:16	0.7	0.7	0.8	119	7/16/2012 11:11	0	0	0.1	-0.7
120	7/16/2012 11:17	0.7	0.7	0.8	120	7/16/2012 11:12	0	0	0.2	-0.7
121	7/16/2012 11:18	0.8	0.9	1	121	7/16/2012 11:13	0	0	0	-0.9
122	7/16/2012 11:19	0.8	0.8	0.9	122	7/16/2012 11:14	0	0	0	-0.8
123	7/16/2012 11:20	0.8	0.8	0.9	123	7/16/2012 11:15	0	0	0	-0.8
124	7/16/2012 11:21	0.7	0.7	0.9	124	7/16/2012 11:16	0	0	0	-0.7
125	7/16/2012 11:22	0.7	0.7	0.8	125	7/16/2012 11:17	0	0	0	-0.7
126	7/16/2012 11:23	0.7	0.7	0.8	126	7/16/2012 11:18	0	0	0	-0.7
127	7/16/2012 11:24	0.7	0.7	0.8	127	7/16/2012 11:19	0	0	0	-0.7
128	7/16/2012 11:25	0.7	0.7	0.8	128	7/16/2012 11:20	0	0	0	-0.7
129	7/16/2012 11:26	0.7	0.7	0.8	129	7/16/2012 11:21	0	0	0	-0.7
130	7/16/2012 11:27	0.7	0.7	0.7	130	7/16/2012 11:22	0	0	0	-0.7
131	7/16/2012 11:28	0.7	0.7	0.7	131	7/16/2012 11:23	0	0	0	-0.7
132	7/16/2012 11:29	0.7	0.7	0.8	132	7/16/2012 11:24	0	0	0	-0.7
133	7/16/2012 11:30	0.7	0.7	0.8	133	7/16/2012 11:25	0	0	0	-0.7
134	7/16/2012 11:31	0.7	0.7	0.8	134	7/16/2012 11:26	0	0	0	-0.7
135	7/16/2012 11:32	0.7	0.8	1	135	7/16/2012 11:27	0	0	0	-0.8
136	7/16/2012 11:33	0.8	0.8	0.9	136	7/16/2012 11:28	0	0	0	-0.8
137	7/16/2012 11:34	0.7	0.7	0.8	137	7/16/2012 11:29	0	0	0	-0.7
138	7/16/2012 11:35	0.7	0.7	0.8	138	7/16/2012 11:30	0	0	0	-0.7
139	7/16/2012 11:36	0.7	0.7	0.8	139	7/16/2012 11:31	0	0	0	-0.7
140	7/16/2012 11:37	0.7	0.7	0.8	140	7/16/2012 11:32	0	0	0	-0.7
141	7/16/2012 11:38	0.7	0.7	0.8	141	7/16/2012 11:33	0	0	0.1	-0.7
142	7/16/2012 11:39	0.7	0.7	0.8	142	7/16/2012 11:34	0	0.1	0.3	-0.6
143	7/16/2012 11:40	0.8	0.9	1	143	7/16/2012 11:35	0	0	0.1	-0.9
144	7/16/2012 11:41	0.9	1	1.1	144	7/16/2012 11:36	0	0	0	-1
145	7/16/2012 11:42	0.9	0.9	1	145	7/16/2012 11:37	0	0	0	-0.9
146	7/16/2012 11:43	0.7	0.8	0.9	146	7/16/2012 11:38	0	0	0	-0.8
147	7/16/2012 11:44	0.7	0.7	0.8	147	7/16/2012 11:39	0	0	0	-0.7
148	7/16/2012 11:45	0.5	0.7	0.8	148	7/16/2012 11:40	0	0	0	-0.7
149	7/16/2012 11:46	0.7	0.7	0.8	149	7/16/2012 11:41	0	0	0	-0.7
150	7/16/2012 11:47	0.7	0.7	0.8	150	7/16/2012 11:42	0	0	0	-0.7
151	7/16/2012 11:48	0.7	0.7	0.8	151	7/16/2012 11:43	0	0	0	-0.7
152	7/16/2012 11:49	0.7	0.7	0.7	152	7/16/2012 11:44	0	0	0	-0.7
153	7/16/2012 11:50	0.7	0.7	0.7	153	7/16/2012 11:45	0	0	0	-0.7
154	7/16/2012 11:51	0.7	0.7	0.7	154	7/16/2012 11:46	0	0	0	-0.7
155	7/16/2012 11:52	0.7	0.7	0.7	155	7/16/2012 11:47	0	0	0	-0.7
156	7/16/2012 11:53	0.7	0.7	0.7	156	7/16/2012 11:48	0	0	0	-0.7
157	7/16/2012 11:54	0.7	0.7	0.8	157	7/16/2012 11:49	0	0	0	-0.7
158	7/16/2012 11:55	0.7	0.7	0.8	158	7/16/2012 11:50	0	0	0	-0.7
159	7/16/2012 11:56	0.7	0.7	0.8	159	7/16/2012 11:51	0	0	0.2	-0.7
160	7/16/2012 11:57	0.8	0.8	1	160	7/16/2012 11:52	0	0	0.4	-0.8
161	7/16/2012 11:58	0.9	0.9	1.1	161	7/16/2012 11:53	0	0	0	-0.9
162	7/16/2012 11:59	0.8	0.8	0.9	162	7/16/2012 11:54	0	0	0	-0.8
163	7/16/2012 12:00	0.8	0.8	0.9	163	7/16/2012 11:55	0	0	0	-0.8
164	7/16/2012 12:01	0.7	0.7	0.8	164	7/16/2012 11:56	0	0	0	-0.7
165	7/16/2012 12:02	0.7	0.7	0.8	165	7/16/2012 11:57	0	0	0	-0.7
166	7/16/2012 12:03	0.7	0.7	0.8	166	7/16/2012 11:58	0	0	0	-0.7
167	7/16/2012 12:04	0.7	0.7	0.8	167	7/16/2012 11:59	0	0	0	-0.7
168	7/16/2012 12:05	0.7	0.7	0.7	168	7/16/2012 12:00	0	0	0	-0.7
169	7/16/2012 12:06	0.7	0.7	0.7	169	7/16/2012 12:01	0	0	0	-0.7
170	7/16/2012 12:07	0.7	0.7	0.8	170	7/16/2012 12:02	0	0	0	-0.7
171	7/16/2012 12:08	0.7	0.7	0.8	171	7/16/2012 12:03	0	0	0	-0.7
172	7/16/2012 12:09	0.8	0.8	0.8	172	7/16/2012 12:04	0	0	0	-0.8
173	7/16/2012 12:10	0.8	0.8	0.8	173	7/16/2012 12:05	0	0	0	-0.8
174	7/16/2012 12:11	0.7	0.7	0.8	174	7/16/2012 12:06	0	0	0	-0.7
175	7/16/2012 12:12	0.7	0.7	0.8	175	7/16/2012 12:07	0	0	0	-0.7
176	7/16/2012 12:13	0.7	0.7	0.8	176	7/16/2012 12:08	0	0	0	-0.7
177	7/16/2012 12:14	0.7	0.7	0.8	177	7/16/2012 12:09	0	0	0	-0.7
178	7/16/2012 12:15	0.7	0.7	0.8	178	7/16/2012 12:10	0	0	0	-0.7
179	7/16/2012 12:16	0.7	0.7	0.8	179	7/16/2012 12:11	0	0	0	-0.7
180	7/16/2012 12:17	0.7	0.7	0.8	180	7/16/2012 12:12	0	0	0	-0.7
181	7/16/2012 12:18	0.7	0.7	0.8	181	7/16/2012 12:13	0	0	0	-0.7

182	7/16/2012 12:19	0.7	0.7	0.7	182	7/16/2012 12:14	0	0	0	-0.7
183	7/16/2012 12:20	0.7	0.7	0.7	183	7/16/2012 12:15	0	0	0	-0.7
184	7/16/2012 12:21	0.7	0.7	0.7	184	7/16/2012 12:16	0	0	0	-0.7
185	7/16/2012 12:22	0.7	0.7	0.7	185	7/16/2012 12:17	0	0	0	-0.7
186	7/16/2012 12:23	0.7	0.7	0.7	186	7/16/2012 12:18	0	0	0	-0.7
187	7/16/2012 12:24	0.6	0.6	0.7	187	7/16/2012 12:19	0	0	0	-0.6
188	7/16/2012 12:25	0.7	0.7	0.7	188	7/16/2012 12:20	0	0	0	-0.7
189	7/16/2012 12:26	0.6	0.6	0.7	189	7/16/2012 12:21	0	0	0	-0.6
190	7/16/2012 12:27	0.7	0.7	0.7	190	7/16/2012 12:22	0	0	0	-0.7
191	7/16/2012 12:28	0.7	0.7	0.7	191	7/16/2012 12:23	0	0	0	-0.7
192	7/16/2012 12:29	0.7	0.7	0.7	192	7/16/2012 12:24	0	0	0	-0.7
193	7/16/2012 12:30	0.7	0.7	0.7	193	7/16/2012 12:25	0	0	0	-0.7
194	7/16/2012 12:31	0.7	0.7	0.7	194	7/16/2012 12:26	0	0	0	-0.7
195	7/16/2012 12:32	0.7	0.7	0.7	195	7/16/2012 12:27	0	0	0	-0.7
196	7/16/2012 12:33	0.7	0.7	0.7	196	7/16/2012 12:28	0	0	0	-0.7
197	7/16/2012 12:34	0.7	0.7	0.7	197	7/16/2012 12:29	0	0	0	-0.7
198	7/16/2012 12:35	0.6	0.6	0.7	198	7/16/2012 12:30	0	0	0	-0.6
199	7/16/2012 12:36	0.7	0.7	0.7	199	7/16/2012 12:31	0	0	0	-0.7
200	7/16/2012 12:37	0.7	0.7	0.7	200	7/16/2012 12:32	0	0	0	-0.7
201	7/16/2012 12:38	0.7	0.7	0.8	201	7/16/2012 12:33	0	0	0	-0.7
202	7/16/2012 12:39	0.7	0.7	0.8	202	7/16/2012 12:34	0	0	0	-0.7
203	7/16/2012 12:40	0.7	0.7	0.8	203	7/16/2012 12:35	0	0	0	-0.7
204	7/16/2012 12:41	0.7	0.7	0.8	204	7/16/2012 12:36	0	0	0	-0.7
205	7/16/2012 12:42	0.7	0.7	0.7	205	7/16/2012 12:37	0	0	0	-0.7
206	7/16/2012 12:43	0.7	0.7	0.7	206	7/16/2012 12:38	0	0	0	-0.7
207	7/16/2012 12:44	0.7	0.7	0.7	207	7/16/2012 12:39	0	0	0	-0.7
208	7/16/2012 12:45	0.6	0.6	0.7	208	7/16/2012 12:40	0	0	0	-0.6
209	7/16/2012 12:46	0.7	0.7	0.7	209	7/16/2012 12:41	0	0	0	-0.7
210	7/16/2012 12:47	0.7	0.7	0.7	210	7/16/2012 12:42	0	0	0	-0.7
211	7/16/2012 12:48	0.7	0.7	0.7	211	7/16/2012 12:43	0	0	0	-0.7
212	7/16/2012 12:49	0.7	0.7	0.7	212	7/16/2012 12:44	0	0	0	-0.7
213	7/16/2012 12:50	0.6	0.6	0.7	213	7/16/2012 12:45	0	0	0	-0.6
214	7/16/2012 12:51	0.7	0.7	0.7	214	7/16/2012 12:46	0	0	0	-0.7
215	7/16/2012 12:52	0.7	0.7	0.7	215	7/16/2012 12:47	0	0	0	-0.7
216	7/16/2012 12:53	0.7	0.7	0.7	216	7/16/2012 12:48	0	0	0	-0.7
217	7/16/2012 12:54	0.7	0.7	0.7	217	7/16/2012 12:49	0	0	0	-0.7
218	7/16/2012 12:55	0.7	0.7	0.8	218	7/16/2012 12:50	0	0	0	-0.7
219	7/16/2012 12:56	0.7	0.7	0.7	219	7/16/2012 12:51	0	0	0	-0.7
220	7/16/2012 12:57	0.7	0.7	0.8	220	7/16/2012 12:52	0	0	0	-0.7
221	7/16/2012 12:58	0.7	0.7	0.8	221	7/16/2012 12:53	0	0	0	-0.7
222	7/16/2012 12:59	0.7	0.7	0.7	222	7/16/2012 12:54	0	0	0	-0.7
223	7/16/2012 13:00	0.7	0.7	0.7	223	7/16/2012 12:55	0	0	0	-0.7
224	7/16/2012 13:01	0.7	0.7	0.7	224	7/16/2012 12:56	0	0	0	-0.7
225	7/16/2012 13:02	0.7	0.7	0.7	225	7/16/2012 12:57	0	0	0	-0.7
226	7/16/2012 13:03	0.7	0.7	0.7	226	7/16/2012 12:58	0	0	0	-0.7
227	7/16/2012 13:04	0.7	0.7	0.7	227	7/16/2012 12:59	0	0	0	-0.7
228	7/16/2012 13:05	0.7	0.7	0.7	228	7/16/2012 13:00	0	0	0	-0.7
229	7/16/2012 13:06	0.7	0.7	0.8	229	7/16/2012 13:01	0	0	0	-0.7
230	7/16/2012 13:07	0.7	0.7	0.8	230	7/16/2012 13:02	0	0	0	-0.7
231	7/16/2012 13:08	0.7	0.7	0.8	231	7/16/2012 13:03	0	0	0	-0.7
232	7/16/2012 13:09	0.7	0.7	0.7	232	7/16/2012 13:04	0	0	0	-0.7
233	7/16/2012 13:10	0.7	0.7	0.7	233	7/16/2012 13:05	0	0	0	-0.7
234	7/16/2012 13:11	0.7	0.7	0.7	234	7/16/2012 13:06	0	0	0	-0.7
235	7/16/2012 13:12	0.7	0.7	0.7	235	7/16/2012 13:07	0	0	0	-0.7
236	7/16/2012 13:13	0.7	0.7	0.7	236	7/16/2012 13:08	0	0	0	-0.7
237	7/16/2012 13:14	0.7	0.7	0.7	237	7/16/2012 13:09	0	0	0	-0.7
238	7/16/2012 13:15	0.7	0.7	0.7	238	7/16/2012 13:10	0	0	0	-0.7
239	7/16/2012 13:16	0.7	0.7	0.8	239	7/16/2012 13:11	0	0	0	-0.7
240	7/16/2012 13:17	0.8	0.8	0.8	240	7/16/2012 13:12	0	0	0	-0.8
241	7/16/2012 13:18	0.8	0.8	0.9	241	7/16/2012 13:13	0	0	0	-0.8
242	7/16/2012 13:19	0.8	0.8	0.9	242	7/16/2012 13:14	0	0	0.1	-0.8
243	7/16/2012 13:20	0.7	0.7	1	243	7/16/2012 13:15	0	0	0	-0.7
244	7/16/2012 13:21	0.7	0.8	0.9	244	7/16/2012 13:16	0	0	0	-0.8
245	7/16/2012 13:22	0.7	0.7	0.8	245	7/16/2012 13:17	0	0	0	-0.7

246	7/16/2012 13:23	0.7	0.7	0.8	246	7/16/2012 13:18	0	0	0	-0.7
247	7/16/2012 13:24	0.7	0.7	0.8	247	7/16/2012 13:19	0	0	0	-0.7
248	7/16/2012 13:25	0.7	0.7	0.8	248	7/16/2012 13:20	0	0	0	-0.7
249	7/16/2012 13:26	0.7	0.7	0.9	249	7/16/2012 13:21	0	0	0	-0.7
250	7/16/2012 13:27	0.8	0.8	0.9	250	7/16/2012 13:22	0	0	0.1	-0.8
251	7/16/2012 13:28	0.7	0.7	0.8	251	7/16/2012 13:23	0	0	0	-0.7
252	7/16/2012 13:29	0.7	0.7	0.7	252	7/16/2012 13:24	0	0	0	-0.7
253	7/16/2012 13:30	0.7	0.7	0.8	253	7/16/2012 13:25	0	0	0	-0.7
254	7/16/2012 13:31	0.7	0.7	0.8	254	7/16/2012 13:26	0	0	0	-0.7
255	7/16/2012 13:32	0.7	0.7	0.8	255	7/16/2012 13:27	0	0	0	-0.7
256	7/16/2012 13:33	0.7	0.7	0.8	256	7/16/2012 13:28	0	0	0	-0.7
257	7/16/2012 13:34	0.7	0.7	0.7	257	7/16/2012 13:29	0	0	0	-0.7
258	7/16/2012 13:35	0.6	0.6	0.7	258	7/16/2012 13:30	0	0	0	-0.6
259	7/16/2012 13:36	0.7	0.7	0.8	259	7/16/2012 13:31	0	0	0	-0.7
260	7/16/2012 13:37	0.7	0.7	0.7	260	7/16/2012 13:32	0	0	0	-0.7
261	7/16/2012 13:38	0.6	0.6	0.7	261	7/16/2012 13:33	0	0	0	-0.6
262	7/16/2012 13:39	0.7	0.7	0.7	262	7/16/2012 13:34	0	0	0	-0.7
263	7/16/2012 13:40	0.7	0.7	0.7	263	7/16/2012 13:35	0	0	0	-0.7
264	7/16/2012 13:41	0.7	0.7	0.7	264	7/16/2012 13:36	0	0	0	-0.7
265	7/16/2012 13:42	0.7	0.7	0.7	265	7/16/2012 13:37	0	0	0	-0.7
266	7/16/2012 13:43	0.6	0.6	0.7	266	7/16/2012 13:38	0	0	0	-0.6
267	7/16/2012 13:44	0.6	0.6	0.7	267	7/16/2012 13:39	0	0	0	-0.6
268	7/16/2012 13:45	0.6	0.6	0.7	268	7/16/2012 13:40	0	0	0	-0.6
269	7/16/2012 13:46	0.6	0.6	0.7	269	7/16/2012 13:41	0	0	0	-0.6
270	7/16/2012 13:47	0.7	0.7	0.8	270	7/16/2012 13:42	0	0	0	-0.7
271	7/16/2012 13:48	0.6	0.7	0.8	271	7/16/2012 13:43	0	0	0	-0.7
272	7/16/2012 13:49	0.6	0.6	0.7	272	7/16/2012 13:44	0	0	0	-0.6
273	7/16/2012 13:50	0.7	0.7	0.8	273	7/16/2012 13:45	0	0	0	-0.7
274	7/16/2012 13:51	0.8	0.8	0.9	274	7/16/2012 13:46	0	0	0	-0.8
275	7/16/2012 13:52	0.8	0.8	0.9	275	7/16/2012 13:47	0	0	0	-0.8
276	7/16/2012 13:53	0.8	0.8	0.9	276	7/16/2012 13:48	0	0	0	-0.8
277	7/16/2012 13:54	0.7	0.7	0.8	277	7/16/2012 13:49	0	0	0	-0.7
278	7/16/2012 13:55	0.7	0.7	0.8	278	7/16/2012 13:50	0	0	0	-0.7
279	7/16/2012 13:56	0.7	0.7	0.8	279	7/16/2012 13:51	0	0	0	-0.7
280	7/16/2012 13:57	0.7	0.7	0.9	280	7/16/2012 13:52	0	0	0	-0.7
281	7/16/2012 13:58	0.7	0.7	0.8	281	7/16/2012 13:53	0	0	0	-0.7
282	7/16/2012 13:59	0.7	0.7	0.8	282	7/16/2012 13:54	0	0	0	-0.7
283	7/16/2012 14:00	0.7	0.7	0.8	283	7/16/2012 13:55	0	0	0	-0.7
284	7/16/2012 14:01	0.7	0.7	0.8	284	7/16/2012 13:56	0	0	0	-0.7
285	7/16/2012 14:02	0.7	0.7	0.7	285	7/16/2012 13:57	0	0	0	-0.7
286	7/16/2012 14:03	0.7	0.7	0.7	286	7/16/2012 13:58	0	0	0	-0.7
287	7/16/2012 14:04	0.7	0.7	0.8	287	7/16/2012 13:59	0	0	0	-0.7
288	7/16/2012 14:05	0.7	0.7	0.8	288	7/16/2012 14:00	0	0	0	-0.7
289	7/16/2012 14:06	0.7	0.7	0.8	289	7/16/2012 14:01	0	0	0	-0.7
290	7/16/2012 14:07	0.7	0.7	0.9	290	7/16/2012 14:02	0	0	0	-0.7
291	7/16/2012 14:08	0.7	0.7	0.9	291	7/16/2012 14:03	0	0	0.3	-0.7
292	7/16/2012 14:09	0.7	0.8	1	292	7/16/2012 14:04	0	0	0.1	-0.8
293	7/16/2012 14:10	0.8	0.8	1	293	7/16/2012 14:05	0	0	0.1	-0.8
294	7/16/2012 14:11	0.8	0.8	1	294	7/16/2012 14:06	0	0	0.1	-0.8
295	7/16/2012 14:12	0.8	0.8	0.9	295	7/16/2012 14:07	0	0	0.1	-0.8
296	7/16/2012 14:13	0.8	0.8	1	296	7/16/2012 14:08	0	0	0	-0.8
297	7/16/2012 14:14	0.8	0.8	0.9	297	7/16/2012 14:09	0	0	0	-0.8
298	7/16/2012 14:15	0.8	0.8	0.9	298	7/16/2012 14:10	0	0	0.1	-0.8
299	7/16/2012 14:16	0.9	0.9	1	299	7/16/2012 14:11	0	0	0	-0.9
300	7/16/2012 14:17	0.8	0.8	0.9	300	7/16/2012 14:12	0	0.1	0.6	-0.7
301	7/16/2012 14:18	0.8	0.9	1.1	301	7/16/2012 14:13	0.6	0.9	1.2	0
302	7/16/2012 14:19	1.1	1.4	1.7	302	7/16/2012 14:14	0.4	0.7	1	-0.7
303	7/16/2012 14:20	1.3	1.4	1.6	303	7/16/2012 14:15	0.1	0.3	0.6	-1.1
304	7/16/2012 14:21	1.1	1.2	1.4	304	7/16/2012 14:16	0	0.1	0.3	-1.1
305	7/16/2012 14:22	1.1	1.1	1.2	305	7/16/2012 14:17	0.1	0.4	0.8	-0.7
306	7/16/2012 14:23	1.1	1.3	1.5	306	7/16/2012 14:18	0.6	0.7	0.9	-0.6
307	7/16/2012 14:24	1.4	1.4	1.6	307	7/16/2012 14:19	0.5	0.6	1	-0.8
308	7/16/2012 14:25	1.3	1.4	1.6	308	7/16/2012 14:20	0.4	0.5	0.7	-0.9
309	7/16/2012 14:26	1.3	1.5	1.7	309	7/16/2012 14:21	0	0.3	0.5	-1.2

310	7/16/2012 14:27	1.2	1.2	1.4
311	7/16/2012 14:28	1	1.1	1.2
312	7/16/2012 14:29	0.9	0.9	1
313	7/16/2012 14:30	0.8	0.8	0.9
314	7/16/2012 14:31	0.8	0.8	0.8

310	7/16/2012 14:22	0	0	0.2	-1.2
311	7/16/2012 14:23	0	0	0.2	-1.1
312	7/16/2012 14:24	0	0	0.2	-0.9
313	7/16/2012 14:25	0	0	0	-0.8
314	7/16/2012 14:26	0	0	0.1	-0.8
315	7/16/2012 14:27	0	0	0.1	0

indicates high reading
indicates high reading with exceedance

RI Addendum No. 3 (2014)

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Off-site @ Fed Ex
Date: 5-14-14
Field Personnel: J. Christoffel

Project: 60137363
Project Number: ↳ National Grid - Equity [redacted]
Weather: 60s / cloudy / humid
Ambient Noise: NA

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings*	Comments
10:00	0.0	0.015	0.0	0.0	0.018	—	Setting up Pre-clear @ T2-SB-5
10:15	0.0	0.019	0.0	0.0	0.030	—	Pre-clear @ T2-SB-5
10:40	0.0	0.021	0.0	0.0	0.026	—	" "
10:54	0.0	0.026	0.0	0.0	0.029	—	" "
11:10	0.0	0.018	0.0	0.0	0.036	—	" "
11:25	0.0	0.017	0.0	0.0	0.028	—	" " → MOB to next location
11:55	0.0	0.015	0.0	0.0	0.023	—	Pre-clear @ T2-SB4
12:10	0.0	0.108	0.0	0.0	0.016	78.7	" "
12:25	0.0	0.231	0.0	0.0	0.015	68.6	" "
12:40	0.0	0.010	0.0	0.0	0.014	69.6	" "
12:55	0.0	0.015	0.0	0.0	0.016	70.5	" "
LUNCH BREAK							
13:40	0.0	0.018	0.0	0.0	0.019	71.1	Backfilling T2-SB-4
13:55	0.0	0.015	0.0	0.0	0.025	89.6	Jackhammering @ T2-SB-3
14:10	0.0	0.015	0.0	0.0	0.020	91.5	Pre-clear @ T2-SB3
14:25	0.0	0.018	0.0	0.0	0.006	75.4	" "
14:40	0.0	0.016	0.0	0.0	0.023	78.5	" "
14:55	0.0	0.018	0.0	0.0	0.032	72.6	" "
15:10	0.0	0.024	0.0	0.0	0.031	77.9	" "
15:25	0.0	0.021	0.0	0.0	0.033	76.7	" "
15:40	0.0	0.023	0.0	0.0	0.030	72.3	Backfilling hole

12:30 - Moved upwind box as dust from air vac was blowing towards it.

* Noise dosimeter not available [redacted]
Pine to drop off dosimeter

12:00 Pine dropped off dosimeter.

516 718-782-4848

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: NAT. GRID
Location: EDUNTY
Date: 5-15-14
Field Personnel: S. WRIGHT

Project:
Project Number: 60137362
Weather: 60s, RAIN
Ambient Noise: TRUCKS

Time	Upwind PID*	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1045	0.0	0.067	0.0	0.0	0.084	65.7	STARTING PRE CLEAN @ T2-SB1
1100	0.0	0.051	0.0	0.0	0.077	70.2	PC T2-SB1
1115	0.0	0.054	0.0	0.0	0.068	72.1	" "
1130	0.0	0.051	0.0	0.0	0.068	70.7	COMPLETED T2-SB1 RAINING AGAIN
1145	—	—	—	—	—	—	WAITING FOR RAIN TO PASS
1200	—	—	—	—	—	—	LUNCH
1215	0.0	0.050	0.0	0.0	0.060	75.1	JACKHAMMERING @ T1-SB10
1230	0.0	0.054	0.0	0.0	0.070	74.7	PC T1-SB10
1245	0.0	0.054	0.0	0.0	0.070	73.7	" "
1300	0.0	0.040	0.0	0.0**	0.060	69.7	BACKFILLING T1-SB10
1315	0.0	0.040	0.0	—**	0.058	65.9	" "
1330	0.0	0.043	0.0	0.0	0.058	65.7	SETTING UP @ T1-SB9
1345	—**	0.051	0.0	0.0	0.057	71.1	PC T1-SB9
1400	0.0	0.049	0.0	0.0	0.062	73.3	" "
1430	0.0	0.043	0.0	0.0	0.055	71.8	" "
1500	0.0	0.035	0.0	0.0	0.042	84.5	JACKHAMMERING T1-SB8
1530	0.0	0.035	0.0	0.0	0.029	80.3	PC T1-SB8
1600	0.0	0.023	0.0	—**	0.029	81.4	BACKFILLING T1-SB8
1715	0.0	0.476	0.0	0.0	0.072	88.4	SAWCUT T3-SB1
1730	0.0	0.024	0.0	0.0	0.037	101.6	PC T3-SB1
1745	0.0	0.024	0.0	0.0	0.056	90.4	" "
1800	0.0	0.026	0.0	0.0	0.039	94.8	" "
1830	0.0	0.033	0.0	0.0	0.037	70.5	BACKHOE MOVING TO T3-SB2
1900	0.0	0.048	0.0	0.0	0.033	88.6	PC T3-SB2
1930	0.0	0.078	0.0	0.0	0.034	70.5	BACKFILLING T3-SB2
2000	0.0	0.043	0.0	0.0	0.033	91.1	STARTING PC @ T3-SB3
2030	0.0	0.040	0.0	0.0	0.047	90.5	PC T3-SB3

RAIN STOPPED

* SWITCHED WORK AREA / UW PIDS
** SWITCHED BATTERIES

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Equity - Brooklyn, NY
Date: 5-16-14
Field Personnel: J. Christoffel

Project: Equity
Project Number: 60137362
Weather: 60's / Muggy / Cloudy / Rainy
Ambient Noise: NA

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:25	0.0	0.034	0.0	0.0	0.077	89.6	Jack Hammering @
9:40	0.0	0.029	0.0	0.0	0.046	76.4	Pre-clear @ TI-SB7
9:55	0.0	0.026	0.0	0.0	0.038	71.5	" "
10:10	0.0	0.026	0.0	0.0	0.032	65.5	" "
10:25	0.0	0.027	0.0	0.0	0.040	68.9	" "
10:40	0.0	0.024	0.0	0.0	0.060	94.0	Began clearing TI-SB6
10:55	0.0	0.025	—	0.0	0.043	[illegible]	" "
11:10	0.0	0.026	—	0.0	0.033	[illegible]	Jack hammering TI-SB5
11:25	0.0	0.027	—	0.0	0.033	[illegible]	Pre-clear @ TI-SB5
11:40	0.0	0.029	—	0.0	0.034	[illegible]	Jack hammering @ TI-SB4
11:55	0.0	0.033	—	0.0	0.039	75.3	Pre-clear @ TI-SB5
12:10	0.0	0.035	—	0.0	0.036	76.1	" "
12:25	0.0	0.034	—	0.0	0.037	77.9	Pre-clear @ TI SB4
12:40	0.0	0.036	—	0.0	0.042	71.2	[illegible] " "
12:55	0.0	0.037	—	0.0	0.039	83.2	Jack hammer @ TI SB-3
13:10	0.0	0.038	—	0.0	0.064	70.3	pre-clear @ TI-SB3
13:25	0.0	0.039		0.0	0.050	80.2	" "
			Lunch	Break			

Pre-clearing @ TI-SB3

Heavy rain - End of clearing / CAMP

* WA PID stopped working. Pine will drop off a new one Monday.

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: NAT GRID
Location: EQUITY
Date: 5-17-14
Field Personnel: SW

Project:
Project Number:
Weather: 60°, SUN
Ambient Noise: TRUCK TRAFFIC

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1700	0.0	-*	0.0	0.0	0.017	75.6	STARTING DRILLING @ T3-SB3
1730	0.0	-	0.0	0.0	0.014	77.1	DRILLING T3-SB3
1800	0.0	-	0.0	0.0	0.020	80.5	DRILLING T3-SB2
1830	0.0	-	0.0	0.0	0.021	75.8	" " "
1900		-					DRILLING T3-SB1

* DEAD BATTERY

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Equity
Date: 5-19-14
Field Personnel: E. Laity, S. Wright

Project: 60137362 - Equity
Project Number:
Weather: Sunny, 70°F
Ambient Noise: 66.7

	Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
T1SB1 & T1SB2.	9:10	0.0	0.111	—	0.0	0.064	70.1	DW PID Pump alarm / swap in WA PID TO DW.
	9:25	0.0	0.020	—	0.0	0.063	79.4	
	9:40	0.0	0.021	—	0.0	0.032	84.3	
	9:55	0.0	0.033	—	0.0	0.079	71.1	
	10:10	0.0	0.024	—	0.0	0.037	88.8	Done @ T1SB2
	10:30	0.0	0.024	—	0.0	0.056	91.2	Jackhammering T1SB1
	10:45	0.0	0.020	—	0.0	0.059	91.3	TWA = 71.2 for dB
	11:00	0.0	0.024	—	0.0	0.034	72.4	
	11:10	0.0	0.038	—	0.0	0.038	67.9	Done @ T1SB1
							~~7~~	
	11:35	0.0	0.018	—	0.0	0.039	74.7	set up for T3SB4 / T3SB5
	11:50	0.0	0.046	—	0.0	2.01	74.8	10ft from jackhammering. Moving over.
1:00	12:05	0.0	0.015	—	0.0	0.025	77.3	moved meter DW / in corner. To close to work zone. in corner of property.
	12:05 –	13:15	No work activity that produces dust.					Surface soil blowing
								12:06 Done @ T3SB4
	13:20	0.0	0.061	0.0	0.0	0.059	70.4	T3SB5
	13:35	0.0	0.026	0.0	0.0	0.034	70.2	
	13:45	0.0	0.030	0.0	0.0	0.032	70.8	Done @ T3SB5

* @ 8:30 am DW PID Throwing Pump alarm after calibration. unable to use. Replace w/ Workarea PID set upwind / Down wind just outside zone (small zone) wind from North to South; called Pine for Replacement.

8

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Equity
Date: 5-20-14
Field Personnel: EL, SW

Project: Equity
Project Number: 60137362
Weather: Sunny 75°F
Ambient Noise: 74.1

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:15	0.0	0.184	0.1	0.0	0.054	73.1	T3SB(4-5)setup.
9:30	0.1	0.080	0.0	0.0	0.038	72.5	
9:45	0.2	0.054	0.0	0.0	0.047	70.7	
9:50	0.2	0.034	0.0	0.0	0.025	69.4	T3SB4 Drilling complete
10:10	0.2	0.030	0.0	0.0	0.028	77.5	
10:30	0.1	0.021	0.0	0.0	0.027	69.3	
10:45	0.3	0.016	0.0	0.0	0.025	72.6	T3SB5 Drilling complete
11:00	0.1	0.047	0.0	0.0	0.027	73.0	
11:15	0.0	0.023	0.0	0.0	0.024	71.9	T2SB5
1130	0.0	0.041	0.0	0.0	0.021	73.8	T2SB5 Drilling complete
1145	0.0	0.054	0.0	0.0	0.019	73.1	
12:00	0.0	0.051	0.0	0.0	0.022	73.8	Lunch Break
12:30	0.0	0.055	0.0	0.0	0.037	77.9	T2SB4
12:45	0.0	0.067	0.2	0.0	0.021	74.1	
13:00	0.0	0.060	0.0	0.0	0.030	73.1	Done on T2SB4 - move to T2SB3
13:15	0.0	0.034	0.0	0.0	0.023	73.6	
13:30	0.0	0.87	0.3	0.0	0.036	71.9	
1345 1[illegible]	0.0	0.060	0.0	0.0	0.033	71.9	Done on T2SB3 move to T2SB2
1400	0.0	0.047	0.0	0.1	0.042	77.1	
1415	0.0	0.037	0.0	0.0	0.027	76.9	
1430	0.1	0.038	0.0	0.1	0.043	74.2	
1445	0.1	0.035	0.0	0.0	0.023	73.4	
1500	0.1	0.039	0.0	0.0	0.033	68.3	
1515	0.1	0.041	0.0	0.1	0.035	69.2	on T2SB1
1545	0.0	0.041	0.0	0.3	0.024	70.0	Done on T2SB1 - End CAMP 5-20-14

* 9.15 start CAMP had zero cal UW Dustrak 5 times before it did not Throw an error. Background dust is high today spiking (>0.100 / -0.200) at times. at start of day.

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Equity
Date: 5-21-14
Field Personnel: EL, SW

Project: EQUITY
Project Number: 60137362
Weather: 75 p. cloudy
Ambient Noise: 65.0 ~~80-81~~

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:10	0.0	0.124	0.2	0.1	0.047	65.5	Background UW Readings
9:30	0.0	0.118	0.2	0.0	0.037	76.7	Start drilling TISB10
9:50	0.0	0.101	0.2	0.1	0.040	84.7	Done TISB10
1000	0.0	0.130	0.3	0.1	0.061	65.0	Start TISB9
10:20	0.0	0.081	0.7	0.0	0.036	92.5	Done TISB9
10:45	0.0	0.103	0.3	0.0	0.045	68.9	Break
11:00	0.0	0.109	0.3	0.0	0.049	65.0	Start TISB8
11:20	0.0	0.193	0.6	0.0	0.050	65.0	upwind hasn't settled down —
11:30	0.1	0.166	0.3	0.1	0.047	63.5	wind flipped ~~[illegible]~~ up/down
11:45	0.1	0.73	0.3	0.1	0.040	77.6	
12:00	0.0	0.168	0.2	0.1	0.60	76.4	TISB7
12:15	0.0	0.070	0.2	0.0	0.40	80.1	Lunch
13:50	0.0	0.057	0.1	0.1	0.017	70	START TISB6
13:00	0.0	0.060	0.1	0.0	0.007	65.0	
13:15	0.1	0.120	0.1	0.0	0.050	65	
13:30	0.0	0.094	0.1	0.0	0.045	84.3	START TISB5
13:45	0.0	0.059	0.1	0.0	0.049	88.0	
13:50	0.0	0.124	0.1	0.0	0.046	76.2	Done w/ CAMP

START CAMP →

high at start of Day > 0.100

Reading high all day not whose from drilling activities. ← meters

* UW had high background readings, even w/ no work occurring.

AECOM

Community Air Monitoring Plan / Noise Field Log

Client: National Grid
Location: Equity
Date: 5-22-14
Field Personnel: E. Laity, S. Wright

Project: 60137362 - Equity
Project Number:
Weather: cloudy, sprinkles 70°F, ~~calm~~ winds in morn. S.
Ambient Noise: 77.3

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:10	0.0	0.062	0.2	0.1	0.077	68.2	START CAMP.
9:25	0.0	0.063	0.2	0.1	0.084	74.8	TISB1 Drilling
9:40	0.0	0.065	0.2	0.1	0.095	67.2	
9:55	0.0	0.070	0.3	0.0	0.088	65.2	TISB1 Complete
10:10	0.0	0.063	0.2	0.1	0.082	68.3	TISB2 Drilling
10:25	0.0	0.066	0.2	0.0	0.080	68.8	
10:40	0.0	0.061	0.2	0.0	0.073	66.6	TISB2 complete
10:55	0.0	0.062	0.2	0.0	0.074	68.2	TISB3 Drilling
11:10	0.0	0.059	0.0	0.0	0.074	71.2	
11:25	0.0	0.064	0.2	0.0	0.068	70.8	TISB4 Drilling, showers started.
11:40	0.0	0.064	0.4	0.0	0.074	73.0	
11:55	0.0	0.061	0.3	0.0	0.069	68.8	TISB4 complete

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 010130
User ID: 00000001 Site ID: 00000009
Data Points: 288 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/7/2014

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000009
Data Points: 288 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/7/2014 9:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/7/2014 11:20	0		0		0	
2	10/7/2014 11:21	0		0		0	
3	10/7/2014 11:22	0		0		0	
4	10/7/2014 11:23	0		0		0	
5	10/7/2014 11:24	0		0		0	
6	10/7/2014 11:25	0		0		0	
7	10/7/2014 11:26	0		0		0	
8	10/7/2014 11:27	0		0		0	
9	10/7/2014 11:28	0		0		0	
10	10/7/2014 11:29	0		0		0	
11	10/7/2014 11:30	0		0		0	
12	10/7/2014 11:31	0		0		0	
13	10/7/2014 11:32	0		0		0	
14	10/7/2014 11:33	0		0		0	
15	10/7/2014 11:34	0		0		0	
16	10/7/2014 11:35	0		0		0	
17	10/7/2014 11:36	0		0		0	
18	10/7/2014 11:37	0		0		0	
19	10/7/2014 11:38	0		0		0	
20	10/7/2014 11:39	0		0		0	
21	10/7/2014 11:40	0		0		0	
22	10/7/2014 11:41	0		0		0	
23	10/7/2014 11:42	0		0		0	
24	10/7/2014 11:43	0		0		0	
25	10/7/2014 11:44	0		0		0	
26	10/7/2014 11:45	0		0		0	
27	10/7/2014 11:46	0		0		0	
28	10/7/2014 11:47	0		0		0	
29	10/7/2014 11:48	0		0		0	
30	10/7/2014 11:49	0		0		0	
31	10/7/2014 11:50	0		0		0	
32	10/7/2014 11:51	0		0		0.3	
33	10/7/2014 11:52	0		0		0	
34	10/7/2014 11:53	0		0		0.1	
35	10/7/2014 11:54	0		0		0.1	
36	10/7/2014 11:55	0		0		0	
37	10/7/2014 11:56	0		0		0	
38	10/7/2014 11:57	0		0		0	
39	10/7/2014 11:58	0		0		0	
40	10/7/2014 11:59	0		0		0	
41	10/7/2014 12:00	0		0		0	
42	10/7/2014 12:01	0		0		0	
43	10/7/2014 12:02	0		0		0	
44	10/7/2014 12:03	0		0		0	
45	10/7/2014 12:04	0		0		0	
46	10/7/2014 12:05	0		0		0	
47	10/7/2014 12:06	0		0		0	
48	10/7/2014 12:07	0		0		0	
49	10/7/2014 12:08	0		0		0	
50	10/7/2014 12:09	0		0		0	
51	10/7/2014 12:10	0		0		0	
52	10/7/2014 12:11	0		0		0	
53	10/7/2014 12:12	0		0		0.3	
54	10/7/2014 12:13	0		0		0	

Difference

55	10/7/2014 12:14	0	0	0
56	10/7/2014 12:15	0	0	0
57	10/7/2014 12:16	0	0	0
58	10/7/2014 12:17	0	0	0
59	10/7/2014 12:18	0	0	0
60	10/7/2014 12:19	0	0	0
61	10/7/2014 12:20	0	0	0
62	10/7/2014 12:21	0	0	0
63	10/7/2014 12:22	0	0	0
64	10/7/2014 12:23	0	0	0.1
65	10/7/2014 12:24	0	0	0
66	10/7/2014 12:25	0	0	0
67	10/7/2014 12:26	0	0	0
68	10/7/2014 12:27	0	0	0
69	10/7/2014 12:28	0	0	0
70	10/7/2014 12:29	0	0	0
71	10/7/2014 12:30	0	0	0
72	10/7/2014 12:31	0	0	0
73	10/7/2014 12:32	0	0	0
74	10/7/2014 12:33	0	0	0
75	10/7/2014 12:34	0	0	0
76	10/7/2014 12:35	0	0	0
77	10/7/2014 12:36	0	0	0
78	10/7/2014 12:37	0	0	0
79	10/7/2014 12:38	0	0	0
80	10/7/2014 12:39	0	0	0
81	10/7/2014 12:40	0	0	0
82	10/7/2014 12:41	0	0	0
83	10/7/2014 12:42	0	0	0.1
84	10/7/2014 12:43	0	0	0
85	10/7/2014 12:44	0	0	0
86	10/7/2014 12:45	0	0	0.1
87	10/7/2014 12:46	0	0	0
88	10/7/2014 12:47	0	0.1	0.5
89	10/7/2014 12:48	0	0	0
90	10/7/2014 12:49	0	0	0
91	10/7/2014 12:50	0	0	0
92	10/7/2014 12:51	0	0	0.1
93	10/7/2014 12:52	0	0	0
94	10/7/2014 12:53	0	0	0
95	10/7/2014 12:54	0	0	0
96	10/7/2014 12:55	0	0	0
97	10/7/2014 12:56	0	0	0
98	10/7/2014 12:57	0	0	0
99	10/7/2014 12:58	0	0	0
100	10/7/2014 12:59	0	0	0
101	10/7/2014 13:00	0	0	0.1
102	10/7/2014 13:01	0	0	0.1
103	10/7/2014 13:02	0	0	0.1
104	10/7/2014 13:03	0	0	0
105	10/7/2014 13:04	0	0	0
106	10/7/2014 13:05	0	0	0
107	10/7/2014 13:06	0	0	0
108	10/7/2014 13:07	0	0	0.1
109	10/7/2014 13:08	0	0	0.4
110	10/7/2014 13:09	0	0.1	0.2
111	10/7/2014 13:10	0	0.1	0.4
112	10/7/2014 13:11	0	0	0.1
113	10/7/2014 13:12	0	0	0.1
114	10/7/2014 13:13	0	0	0
115	10/7/2014 13:14	0	0	0.1
116	10/7/2014 13:15	0	0	0.1
117	10/7/2014 13:16	0	0	0.1
118	10/7/2014 13:17	0	0	0.1
119	10/7/2014 13:18	0	0.3	2.9
120	10/7/2014 13:19	0	1.7	47.8
121	10/7/2014 13:20	0.4	5.3	17.8

122	10/7/2014 13:21	0.1	0.5	1.7
123	10/7/2014 13:22	0.1	0.2	1
124	10/7/2014 13:23	0.1	1.9	6.5
125	10/7/2014 13:24	0.1	0.9	3.3
126	10/7/2014 13:25	0	0.2	1.4
127	10/7/2014 13:26	0	0.1	0.2
128	10/7/2014 13:27	0.1	0.1	0.2
129	10/7/2014 13:28	0	0	0.1
130	10/7/2014 13:29	0	0.5	2.9
131	10/7/2014 13:30	0.4	0.7	1.8
132	10/7/2014 13:31	0.2	0.7	2
133	10/7/2014 13:32	0.1	0.3	0.9
134	10/7/2014 13:33	0.1	0.4	1.8
135	10/7/2014 13:34	0.1	0.1	0.6
136	10/7/2014 13:35	0.1	0.5	2.3
137	10/7/2014 13:36	0	0	0.2
138	10/7/2014 13:37	0	0	0.2
139	10/7/2014 13:38	0	0.3	2
140	10/7/2014 13:39	0	0.3	1.4
141	10/7/2014 13:40	0	0.2	0.8
142	10/7/2014 13:41	0	0.4	1.1
143	10/7/2014 13:42	0.1	0.2	1.3
144	10/7/2014 13:43	0.1	0.2	1
145	10/7/2014 13:44	0	0	0.1
146	10/7/2014 13:45	0	0	0.1
147	10/7/2014 13:46	0	0.1	0.7
148	10/7/2014 13:47	0	0.1	0.3
149	10/7/2014 13:48	0	0.2	0.8
150	10/7/2014 13:49	0	0.1	0.5
151	10/7/2014 13:50	0	0	0.1
152	10/7/2014 13:51	0	0	0.1
153	10/7/2014 13:52	0	0	0.3
154	10/7/2014 13:53	0	0	0.1
155	10/7/2014 13:54	0	0	0.2
156	10/7/2014 13:55	0	0	0.3
157	10/7/2014 13:56	0	0.1	0.5
158	10/7/2014 13:57	0	0	0.1
159	10/7/2014 13:58	0	0	0
160	10/7/2014 13:59	0	0	0
161	10/7/2014 14:00	0	0	0
162	10/7/2014 14:01	0	0	0.1
163	10/7/2014 14:02	0	0	0.1
164	10/7/2014 14:03	0	0	0.1
165	10/7/2014 14:04	0	0	0
166	10/7/2014 14:05	0	0	0
167	10/7/2014 14:06	0	0	0
168	10/7/2014 14:07	0	0	0
169	10/7/2014 14:08	0	0	0
170	10/7/2014 14:09	0	0	0
171	10/7/2014 14:10	0	0	0.1
172	10/7/2014 14:11	0	0	0.1
173	10/7/2014 14:12	0	0	0.3
174	10/7/2014 14:13	0	0	0.1
175	10/7/2014 14:14	0	0	0.1
176	10/7/2014 14:15	0	0	0
177	10/7/2014 14:16	0	0	0
178	10/7/2014 14:17	0	0	0
179	10/7/2014 14:18	0	0	0
180	10/7/2014 14:19	0	0	0
181	10/7/2014 14:20	0	0	0.1
182	10/7/2014 14:21	0	0	0
183	10/7/2014 14:22	0	0	0.1
184	10/7/2014 14:23	0	0	0.1
185	10/7/2014 14:24	0	0	0.1
186	10/7/2014 14:25	0	0	0.1
187	10/7/2014 14:26	0	0	0
188	10/7/2014 14:27	0	0	0

189	10/7/2014 14:28	0	0	0
190	10/7/2014 14:29	0	0	0
191	10/7/2014 14:30	0	0	0.1
192	10/7/2014 14:31	0	0	0
193	10/7/2014 14:32	0	0	0
194	10/7/2014 14:33	0	0	0
195	10/7/2014 14:34	0	0	0.1
196	10/7/2014 14:35	0	0	0
197	10/7/2014 14:36	0	0	0
198	10/7/2014 14:37	0	0	0
199	10/7/2014 14:38	0	0	0
200	10/7/2014 14:39	0	0	0
201	10/7/2014 14:40	0	0	0
202	10/7/2014 14:41	0	0	0
203	10/7/2014 14:42	0	0	0
204	10/7/2014 14:43	0	0	0.1
205	10/7/2014 14:44	0	0	0
206	10/7/2014 14:45	0	0	0
207	10/7/2014 14:46	0	0	0.1
208	10/7/2014 14:47	0	0	0.1
209	10/7/2014 14:48	0	0	0
210	10/7/2014 14:49	0	0	0.1
211	10/7/2014 14:50	0	0	0.1
212	10/7/2014 14:51	0	0	0.2
213	10/7/2014 14:52	0	0	0.1
214	10/7/2014 14:53	0	0	0.3
215	10/7/2014 14:54	0	0	0.1
216	10/7/2014 14:55	0	0	0
217	10/7/2014 14:56	0	0	0
218	10/7/2014 14:57	0	0	0.1
219	10/7/2014 14:58	0	0	0
220	10/7/2014 14:59	0	0	0.1
221	10/7/2014 15:00	0	0	0
222	10/7/2014 15:01	0	0	0
223	10/7/2014 15:02	0	0	0
224	10/7/2014 15:03	0	0	0.1
225	10/7/2014 15:04	0	0	0
226	10/7/2014 15:05	0	0	0
227	10/7/2014 15:06	0	0	0.1
228	10/7/2014 15:07	0	0	0.1
229	10/7/2014 15:08	0.1	0.1	0.2
230	10/7/2014 15:09	0	0.1	0.2
231	10/7/2014 15:10	0	0.1	0.2
232	10/7/2014 15:11	0	0	0.1
233	10/7/2014 15:12	0	0	0.1
234	10/7/2014 15:13	0	0	0.1
235	10/7/2014 15:14	0	0	0
236	10/7/2014 15:15	0	0	0.1
237	10/7/2014 15:16	0	0	0.1
238	10/7/2014 15:17	0	0	0.1
239	10/7/2014 15:18	0	0	0.1
240	10/7/2014 15:19	0	0	0
241	10/7/2014 15:20	0	0	0
242	10/7/2014 15:21	0	0	0.1
243	10/7/2014 15:22	0	0	0
244	10/7/2014 15:23	0	0	0
245	10/7/2014 15:24	0	0	0
246	10/7/2014 15:25	0	0	0.2
247	10/7/2014 15:26	0	0	0.1
248	10/7/2014 15:27	0	0.1	0.7
249	10/7/2014 15:28	0	0	0
250	10/7/2014 15:29	0	0	0.1
251	10/7/2014 15:30	0	0	0.4
252	10/7/2014 15:31	0	0	0.9
253	10/7/2014 15:32	0	0.1	0.4
254	10/7/2014 15:33	0	0	0
255	10/7/2014 15:34	0	0	0

256	10/7/2014 15:35	0	0	0
257	10/7/2014 15:36	0	0	0
258	10/7/2014 15:37	0	0	0.1
259	10/7/2014 15:38	0	0	0
260	10/7/2014 15:39	0	0	0
261	10/7/2014 15:40	0	0	0
262	10/7/2014 15:41	0	0	0
263	10/7/2014 15:42	0	0	0
264	10/7/2014 15:43	0	0	0
265	10/7/2014 15:44	0	0	0
266	10/7/2014 15:45	0	0	0.1
267	10/7/2014 15:46	0	0.2	1.1
268	10/7/2014 15:47	0	0	0.1
269	10/7/2014 15:48	0	0	0.1
270	10/7/2014 15:49	0	0	0.1
271	10/7/2014 15:50	0	0.1	0.2
272	10/7/2014 15:51	0	0	0.2
273	10/7/2014 15:52	0	0	0.5
274	10/7/2014 15:53	0	0	0.2
275	10/7/2014 15:54	0	0.1	0.3
276	10/7/2014 15:55	0	0	0.1
277	10/7/2014 15:56	0	0	0.2
278	10/7/2014 15:57	0	0	0.1
279	10/7/2014 15:58	0	0	0.3
280	10/7/2014 15:59	0	0	0
281	10/7/2014 16:00	0	0	0
282	10/7/2014 16:01	0	0	0.1
283	10/7/2014 16:02	0	0	0
284	10/7/2014 16:03	0	0	0
285	10/7/2014 16:04	0	0	0.1
286	10/7/2014 16:05	0	0	0
287	10/7/2014 16:06	0	0	0
288	10/7/2014 16:07	0	0	0.1

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 010130
User ID: 00000001 Site ID: 00000010
Data Points: 306 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/08/2014

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000010
Data Points: 306 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/08/2014 10:47

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	########		0		0		0	
2	########		0		0		0	
3	########		0		0		0	
4	########		0		0		0	
5	########		0		0		0	
6	########		0		0		0	
7	########		0		0		0	
8	########		0		0		0	
9	########		0		0		0	
10	########		0		0		0	
11	########		0		0		0	
12	########		0		0		0	
13	########		0		0		0	
14	########		0		0		0	
15	########		0		0		0	
16	########		0		0		0	
17	########		0		0		0	
18	########		0		0		0	
19	########		0		0		0	
20	########		0		0		0	
21	########		0		0		0	
22	########		0		0		0	
23	########		0		0		0	
24	########		0		0		0	
25	########		0		0		0	
26	########		0		0		0	
27	########		0		0		0	
28	########		0		0		0	
29	########		0		0		0	
30	########		0		0		0	
31	########		0		0		0	
32	########		0		0		0	
33	########		0		0		0	
34	########		0		0		0	
35	########		0		0		0	
36	########		0		0		0	
37	########		0		0		0	
38	########		0		0		0	
39	########		0		0		0	
40	########		0		0		0	
41	########		0		0		0	
42	########		0		0		0	
43	########		0		0		0	
44	########		0		0		0	
45	########		0		0		0	
46	########		0		0		0	

47	########	0	0	0
48	########	0	0	0
49	########	0	0	0
50	########	0	0	0
51	########	0	0	0
52	########	0	0	0
53	########	0	0	0
54	########	0	0	0
55	########	0	0	0
56	########	0	0	0
57	########	0	0	0
58	########	0	0	0
59	########	0	0	0
60	########	0	0	0.1
61	########	0	0	0
62	########	0	0	0.3
63	########	0	0	0.1
64	########	0	0	0
65	########	0	0	0
66	########	0	0	0.1
67	########	0	0	0
68	########	0	0	0
69	########	0	0	0
70	########	0	0	0
71	########	0	0	0
72	########	0	0	0
73	########	0	0	0
74	########	0	0	0
75	########	0	0	0
76	########	0	0	0.3
77	########	0	0	0.1
78	########	0	0	0
79	########	0	0	0
80	########	0	0	0
81	########	0	0	0
82	########	0	0	0
83	########	0	0	0
84	########	0	0	0
85	########	0	0	0
86	########	0	0	0
87	########	0	0	0
88	########	0	0	0
89	########	0	0	0
90	########	0	0	0
91	########	0	0	0
92	########	0	0.1	2.6
93	########	0	0	0
94	########	0	0	0
95	########	0	0	0
96	########	0	0	0
97	########	0	0	0
98	########	0	0	0
99	########	0	0.5	2.4
100	########	0	0	0
101	########	0	0	0.1
102	########	0	0	0
103	########	0	0	0
104	########	0	0	0
105	########	0	0	0.4

106	########	0	0	0.2
107	########	0	0	0
108	########	0	0	0.1
109	########	0	0	0
110	########	0	0	0
111	########	0	0	0
112	########	0	0	0
113	########	0	0	0
114	########	0	0	0
115	########	0	0	0
116	########	0	0	0
117	########	0	0	0
118	########	0	0	0
119	########	0	0	0
120	########	0	0.3	2.2
121	########	0	0.2	2.3
122	########	0	0	0
123	########	0	0	0
124	########	0	0	0
125	########	0	0	0
126	########	0	0	0
127	########	0	0	0
128	########	0	0	0.1
129	########	0	0	0
130	########	0	0	0
131	########	0	0	0.2
132	########	0	0	0
133	########	0	0	0
134	########	0	0	0.6
135	########	0	0	0
136	########	0	0	0
137	########	0	0	0
138	########	0	0	0
139	########	0	0	0
140	########	0	0	0
141	########	0	0	0
142	########	0	0	0
143	########	0	0	0
144	########	0	0	0
145	########	0	0	0
146	########	0	0	0
147	########	0	0	0
148	########	0	0	0
149	########	0	0	0
150	########	0	0	0
151	########	0	0	0.1
152	########	0	0	0
153	########	0	0	0
154	########	0	0	0
155	########	0	0	0
156	########	0	0	0.4
157	########	0	0	0
158	########	0	0.6	2
159	########	0	0.1	0.8
160	########	0	0	0
161	########	0	0	0
162	########	0	0	0
163	########	0	0	0
164	########	0	0	0.5

165	########	0	0.8	2.9
166	########	0	0	0.2
167	########	0	0	0
168	########	0	0	0.1
169	########	0	0	0
170	########	0	0	0
171	########	0	0	0
172	########	0	0	0
173	########	0	0	0
174	########	0	0	0
175	########	0	0	0
176	########	0	0	0
177	########	0	0	0
178	########	0	0	0
179	########	0	0	0
180	########	0	0	0
181	########	0	0	0
182	########	0	0	0
183	########	0	0	0
184	########	0	0	0
185	########	0	0	0
186	########	0	0	0
187	########	0	0	0
188	########	0	0	0
189	########	0	0	0
190	########	0	0	0
191	########	0	0	0
192	########	0	0	0
193	########	0	0	0
194	########	0	0	0
195	########	0	0	0
196	########	0	0	0
197	########	0	0	0
198	########	0	0	0
199	########	0	0	0
200	########	0	0	0
201	########	0	0	0
202	########	0	0	0
203	########	0	0	0
204	########	0	0	0
205	########	0	0	0
206	########	0	0	0
207	########	0	0	0
208	########	0	0	0.2
209	########	0	0	0
210	########	0	0	0
211	########	0	0	0
212	########	0	0	0
213	########	0	0	0
214	########	0	0	0
215	########	0	0	0.4
216	########	0	0	0
217	########	0	0	0
218	########	0	0	0.2
219	########	0	0	0.2
220	########	0	0	0
221	########	0	0	0
222	########	0	0	0
223	########	0	0	0

224	########	0	0	0
225	########	0	0	0.2
226	########	0	0	0
227	########	0	0	0
228	########	0	0	0.4
229	########	0	0	0
230	########	0	0	0
231	########	0	0	0
232	########	0	0	0
233	########	0	0	0
234	########	0	0	0
235	########	0	0	0
236	########	0	0	0
237	########	0	0	0
238	########	0	0	0
239	########	0	0	0
240	########	0	0	0
241	########	0	0	0
242	########	0	0	0
243	########	0	0	0
244	########	0	0	0
245	########	0	0	0
246	########	0	0	0
247	########	0	0	0
248	########	0	0	0
249	########	0	0	0
250	########	0	0	0
251	########	0	0	0
252	########	0	0	0
253	########	0	0	0
254	########	0	0	0
255	########	0	0	0
256	########	0	0	0
257	########	0	0	0
258	########	0	0	0
259	########	0	0	0
260	########	0	0	0
261	########	0	0	0
262	########	0	0	0
263	########	0	0	0
264	########	0	0	0
265	########	0	0	0
266	########	0	0	0
267	########	0	0	0
268	########	0	0	0
269	########	0	0	0
270	########	0	0	0
271	########	0	0	0
272	########	0	0	0
273	########	0	0	0
274	########	0	0	0
275	########	0	0	0
276	########	0	0	0
277	########	0	0	0
278	########	0	0	0
279	########	0	0	0
280	########	0	0	0
281	########	0	0	0
282	########	0	0	0

283	########	0	0	0
284	########	0	0	0
285	########	0	0	0
286	########	0	0	0
287	########	0	0	0
288	########	0	0	0
289	########	0	0	0
290	########	0	0	0
291	########	0	0	0
292	########	0	0	0
293	########	0	0	0
294	########	0	0	0
295	########	0	0	0
296	########	0	0	0
297	########	0	0	0
298	########	0	0	0
299	########	0	0	0
300	########	0	0	0
301	########	0	0	0
302	########	0	0	0
303	########	0	0	0
304	########	0	0	0
305	########	0	0	0
306	########	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000005
Data Points: 304 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/08/2014 16:14

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/9/2014 11:05	0		0		0	
2	10/9/2014 11:06	0		0		0	
3	10/9/2014 11:07	0		0		0	
4	10/9/2014 11:08	0		0		0	
5	10/9/2014 11:09	0		0		0	
6	10/9/2014 11:10	0		0		0	
7	10/9/2014 11:11	0		0		0	
8	10/9/2014 11:12	0		0		0	
9	10/9/2014 11:13	0		0		0	
10	10/9/2014 11:14	0		0		0	
11	10/9/2014 11:15	0		0		0	
12	10/9/2014 11:16	0		0		0	
13	10/9/2014 11:17	0		0		0	
14	10/9/2014 11:18	0		0		0	
15	10/9/2014 11:19	0		0		0	
16	10/9/2014 11:20	0		0		0	
17	10/9/2014 11:21	0		0		0	
18	10/9/2014 11:22	0		0		0	
19	10/9/2014 11:23	0		0		0	
20	10/9/2014 11:24	0		0		0	
21	10/9/2014 11:25	0		0		0	
22	10/9/2014 11:26	0		0		0	
23	10/9/2014 11:27	0		0		0	
24	10/9/2014 11:28	0		0		0	
25	10/9/2014 11:29	0		0		0	
26	10/9/2014 11:30	0		0		0	
27	10/9/2014 11:31	0		0		0	
28	10/9/2014 11:32	0		0		0	
29	10/9/2014 11:33	0		0		0	
30	10/9/2014 11:34	0		0		0	
31	10/9/2014 11:35	0		0		0	
32	10/9/2014 11:36	0		0		0	
33	10/9/2014 11:37	0		0		0	
34	10/9/2014 11:38	0		0		0	
35	10/9/2014 11:39	0		0		0	
36	10/9/2014 11:40	0		0		0	
37	10/9/2014 11:41	0		0		0	
38	10/9/2014 11:42	0		0		0	
39	10/9/2014 11:43	0		0		0	
40	10/9/2014 11:44	0		0		0	
41	10/9/2014 11:45	0		0		0	
42	10/9/2014 11:46	0		0		0	
43	10/9/2014 11:47	0		0		0	
44	10/9/2014 11:48	0		0		0	
45	10/9/2014 11:49	0		0		0	
46	10/9/2014 11:50	0		0		0	
47	10/9/2014 11:51	0		0		0	
48	10/9/2014 11:52	0		0		0	
49	10/9/2014 11:53	0		0		0	
50	10/9/2014 11:54	0		0		0	
51	10/9/2014 11:55	0		0		0	
52	10/9/2014 11:56	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000011
Data Points: 302 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/09/2014 10:40

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/9/2014 11:05	0		0		0	
2	10/9/2014 11:06	0		0		0	
3	10/9/2014 11:07	0		0		0	
4	10/9/2014 11:08	0		0		0	
5	10/9/2014 11:09	0		0		0	
6	10/9/2014 11:10	0		0		0	
7	10/9/2014 11:11	0		0		0	
8	10/9/2014 11:12	0		0		0	
9	10/9/2014 11:13	0		0		0	
10	10/9/2014 11:14	0		0		0	
11	10/9/2014 11:15	0		0		0	
12	10/9/2014 11:16	0		0		0	
13	10/9/2014 11:17	0		0		0	
14	10/9/2014 11:18	0		0		0	
15	10/9/2014 11:19	0		0		0	
16	10/9/2014 11:20	0		0		0	
17	10/9/2014 11:21	0		0		0	
18	10/9/2014 11:22	0		0		0	
19	10/9/2014 11:23	0		0		0	
20	10/9/2014 11:24	0		0		0	
21	10/9/2014 11:25	0		0		0	
22	10/9/2014 11:26	0		0		0	
23	10/9/2014 11:27	0		0		0	
24	10/9/2014 11:28	0		0		0	
25	10/9/2014 11:29	0		0		0	
26	10/9/2014 11:30	0		0		0	
27	10/9/2014 11:31	0		0		0	
28	10/9/2014 11:32	0		0		0	
29	10/9/2014 11:33	0		0		0	
30	10/9/2014 11:34	0		0		0	
31	10/9/2014 11:35	0		0		0	
32	10/9/2014 11:36	0		0		0	
33	10/9/2014 11:37	0		0		0	
34	10/9/2014 11:38	0		0		0	
35	10/9/2014 11:39	0		0		0	
36	10/9/2014 11:40	0		0		0	
37	10/9/2014 11:41	0		0		0	
38	10/9/2014 11:42	0		0		0	
39	10/9/2014 11:43	0		0		0	
40	10/9/2014 11:44	0		0		0	
41	10/9/2014 11:45	0		0		0	
42	10/9/2014 11:46	0		0		0	
43	10/9/2014 11:47	0		0		0	
44	10/9/2014 11:48	0		0		0	
45	10/9/2014 11:49	0		0		0	
46	10/9/2014 11:50	0		0		0	
47	10/9/2014 11:51	0		0		0	
48	10/9/2014 11:52	0		0		0	
49	10/9/2014 11:53	0		0		0	
50	10/9/2014 11:54	0		0		0	
51	10/9/2014 11:55	0		0		0	
52	10/9/2014 11:56	0		0		0	

53	10/9/2014 11:57	0	0	0
54	10/9/2014 11:58	0	0	0
55	10/9/2014 11:59	0	0	0
56	10/9/2014 12:00	0	0	0
57	10/9/2014 12:01	0	0	0
58	10/9/2014 12:02	0	0	0
59	10/9/2014 12:03	0	0	0
60	10/9/2014 12:04	0	0	0
61	10/9/2014 12:05	0	0	0
62	10/9/2014 12:06	0	0	0
63	10/9/2014 12:07	0	0	0
64	10/9/2014 12:08	0	0	0
65	10/9/2014 12:09	0	0	0
66	10/9/2014 12:10	0	0	0
67	10/9/2014 12:11	0	0	0
68	10/9/2014 12:12	0	0	0
69	10/9/2014 12:13	0	0	0
70	10/9/2014 12:14	0	0	0
71	10/9/2014 12:15	0	0	0
72	10/9/2014 12:16	0	0	0
73	10/9/2014 12:17	0	0	0
74	10/9/2014 12:18	0	0	0
75	10/9/2014 12:19	0	0	0
76	10/9/2014 12:20	0	0	0
77	10/9/2014 12:21	0	0	0
78	10/9/2014 12:22	0	0	0
79	10/9/2014 12:23	0	0	0
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81	10/9/2014 12:25	0	0	0
82	10/9/2014 12:26	0	0	0
83	10/9/2014 12:27	0	0	0
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86	10/9/2014 12:30	0	0	0
87	10/9/2014 12:31	0	0	0
88	10/9/2014 12:32	0	0	0
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92	10/9/2014 12:36	0	0	0
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56	10/9/2014 12:00	0	0	0
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303	10/9/2014 16:07	0	0	0
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252	10/9/2014 15:16	0	0	0
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262	10/9/2014 15:26	0	0	0
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266	10/9/2014 15:30	0	0	0
267	10/9/2014 15:31	0	0	0
268	10/9/2014 15:32	0	0	0
269	10/9/2014 15:33	0	0	0
270	10/9/2014 15:34	0	0	0
271	10/9/2014 15:35	0	0	0
272	10/9/2014 15:36	0	0	0
273	10/9/2014 15:37	0	0	0
274	10/9/2014 15:38	0	0	0
275	10/9/2014 15:39	0	0	0
276	10/9/2014 15:40	0	0	0
277	10/9/2014 15:41	0	0	0
278	10/9/2014 15:42	0	0	0
279	10/9/2014 15:43	0	0	0
280	10/9/2014 15:44	0	0	0
281	10/9/2014 15:45	0	0	0
282	10/9/2014 15:46	0	0	0
283	10/9/2014 15:47	0	0	0
284	10/9/2014 15:48	0	0	0
285	10/9/2014 15:49	0	0	0
286	10/9/2014 15:50	0	0	0
287	10/9/2014 15:51	0	0	0
288	10/9/2014 15:52	0	0	0
289	10/9/2014 15:53	0	0	0
290	10/9/2014 15:54	0	0	0
291	10/9/2014 15:55	0	0	0
292	10/9/2014 15:56	0	0	0
293	10/9/2014 15:57	0	0	0
294	10/9/2014 15:58	0	0	0
295	10/9/2014 15:59	0	0	0
296	10/9/2014 16:00	0	0	0
297	10/9/2014 16:01	0	0	0
298	10/9/2014 16:02	0	0	0
299	10/9/2014 16:03	0	0	0
300	10/9/2014 16:04	0	0	0
301	10/9/2014 16:05	0	0	0
302	10/9/2014 16:06	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000006
Data Points: 328 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/10/2014 10:49

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/10/2014 10:55	0		0		0	
2	10/10/2014 10:56	0		0		0	
3	10/10/2014 10:57	0		0		0	
4	10/10/2014 10:58	0		0		0	
5	10/10/2014 10:59	0		0		0	
6	10/10/2014 11:00	0		0		0	
7	10/10/2014 11:01	0		0		0	
8	10/10/2014 11:02	0		0		0.1	
9	10/10/2014 11:03	0		0		0	
10	10/10/2014 11:04	0		0		0	
11	10/10/2014 11:05	0		0		0	
12	10/10/2014 11:06	0		0		0	
13	10/10/2014 11:07	0		0		0	
14	10/10/2014 11:08	0		0		0	
15	10/10/2014 11:09	0		0		0	
16	10/10/2014 11:10	0		0		0	
17	10/10/2014 11:11	0		0		0	
18	10/10/2014 11:12	0		0		0	
19	10/10/2014 11:13	0		0		0	
20	10/10/2014 11:14	0		0		0	
21	10/10/2014 11:15	0		0		0	
22	10/10/2014 11:16	0		0		0	
23	10/10/2014 11:17	0		0		0	
24	10/10/2014 11:18	0		0		0	
25	10/10/2014 11:19	0		0		0	
26	10/10/2014 11:20	0		0		0	
27	10/10/2014 11:21	0		0		0	
28	10/10/2014 11:22	0		0		0	
29	10/10/2014 11:23	0		0		0	
30	10/10/2014 11:24	0		0		0	
31	10/10/2014 11:25	0		0		0	
32	10/10/2014 11:26	0		0		0	
33	10/10/2014 11:27	0		0		0	
34	10/10/2014 11:28	0		0		0	
35	10/10/2014 11:29	0		0		0	
36	10/10/2014 11:30	0		0		0	
37	10/10/2014 11:31	0		0		0	
38	10/10/2014 11:32	0		0		0	
39	10/10/2014 11:33	0		0		0.3	
40	10/10/2014 11:34	0		0		0	
41	10/10/2014 11:35	0		0		0	
42	10/10/2014 11:36	0		0		0	
43	10/10/2014 11:37	0		0		0	
44	10/10/2014 11:38	0		0		0	
45	10/10/2014 11:39	0		0		0	
46	10/10/2014 11:40	0		0		0	
47	10/10/2014 11:41	0		0		0	
48	10/10/2014 11:42	0		0		0	
49	10/10/2014 11:43	0		0		0	
50	10/10/2014 11:44	0		0		0	
51	10/10/2014 11:45	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000012
Data Points: 297 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/10/2014 10:44

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/10/2014 11:23	0		0		0	
2	10/10/2014 11:24	0		0		0	
3	10/10/2014 11:25	0		0		0	
4	10/10/2014 11:26	0		0		0	
5	10/10/2014 11:27	0		0		0	
6	10/10/2014 11:28	0		0		0	
7	10/10/2014 11:29	0		0		0	
8	10/10/2014 11:30	0		0		0	
9	10/10/2014 11:31	0		0		0	
10	10/10/2014 11:32	0		0		0	
11	10/10/2014 11:33	0		0		0	
12	10/10/2014 11:34	0		0		0	
13	10/10/2014 11:35	0		0		0	
14	10/10/2014 11:36	0		0		0	
15	10/10/2014 11:37	0		0		0	
16	10/10/2014 11:38	0		0		0	
17	10/10/2014 11:39	0		0		0	
18	10/10/2014 11:40	0		0		0	
19	10/10/2014 11:41	0		0		0	
20	10/10/2014 11:42	0		0		0	
21	10/10/2014 11:43	0		0		0	
22	10/10/2014 11:44	0		0		0	
23	10/10/2014 11:45	0		0		0	
24	10/10/2014 11:46	0		0		0	
25	10/10/2014 11:47	0		0		0	
26	10/10/2014 11:48	0		0		0	
27	10/10/2014 11:49	0		0		0	
28	10/10/2014 11:50	0		0		0	
29	10/10/2014 11:51	0		0		0	
30	10/10/2014 11:52	0		0		0	
31	10/10/2014 11:53	0		0		0	
32	10/10/2014 11:54	0		0		0	
33	10/10/2014 11:55	0		0		0	
34	10/10/2014 11:56	0		0		0	
35	10/10/2014 11:57	0		0		0	
36	10/10/2014 11:58	0		0		0	
37	10/10/2014 11:59	0		0		0	
38	10/10/2014 12:00	0		0		0	
39	10/10/2014 12:01	0		0		0	
40	10/10/2014 12:02	0		0		0	
41	10/10/2014 12:03	0		0		0	
42	10/10/2014 12:04	0		0		0	
43	10/10/2014 12:05	0		0		0	
44	10/10/2014 12:06	0		0		0	
45	10/10/2014 12:07	0		0		0	
46	10/10/2014 12:08	0		0		0	
47	10/10/2014 12:09	0		0		0	
48	10/10/2014 12:10	0		0		0	
49	10/10/2014 12:11	0		0		0	
50	10/10/2014 12:12	0		0		0	
51	10/10/2014 12:13	0		0		0	

52	10/10/2014 11:46	0	0	0
53	10/10/2014 11:47	0	0	0
54	10/10/2014 11:48	0	0	0
55	10/10/2014 11:49	0	0	0
56	10/10/2014 11:50	0	0	0
57	10/10/2014 11:51	0	0	0
58	10/10/2014 11:52	0	0	0
59	10/10/2014 11:53	0	0	0
60	10/10/2014 11:54	0	0	0
61	10/10/2014 11:55	0	0	0
62	10/10/2014 11:56	0	0	0
63	10/10/2014 11:57	0	0	0
64	10/10/2014 11:58	0	0	0
65	10/10/2014 11:59	0	0	0
66	10/10/2014 12:00	0	0	0
67	10/10/2014 12:01	0	0	0
68	10/10/2014 12:02	0	0	0
69	10/10/2014 12:03	0	0	0
70	10/10/2014 12:04	0	0	0
71	10/10/2014 12:05	0	0	0
72	10/10/2014 12:06	0	0	0
73	10/10/2014 12:07	0	0	0
74	10/10/2014 12:08	0	0	0
75	10/10/2014 12:09	0	0	0
76	10/10/2014 12:10	0	0	0
77	10/10/2014 12:11	0	0	0
78	10/10/2014 12:12	0	0	0
79	10/10/2014 12:13	0	0	0
80	10/10/2014 12:14	0	0	0
81	10/10/2014 12:15	0	0	0
82	10/10/2014 12:16	0	0	0
83	10/10/2014 12:17	0	0	0
84	10/10/2014 12:18	0	0	0
85	10/10/2014 12:19	0	0	0
86	10/10/2014 12:20	0	0	0
87	10/10/2014 12:21	0	0	0
88	10/10/2014 12:22	0	0	0
89	10/10/2014 12:23	0	0	0
90	10/10/2014 12:24	0	0	0
91	10/10/2014 12:25	0	0	0
92	10/10/2014 12:26	0	0	0
93	10/10/2014 12:27	0	0	0
94	10/10/2014 12:28	0	0	0
95	10/10/2014 12:29	0	0	0
96	10/10/2014 12:30	0	0	0
97	10/10/2014 12:31	0	0	0
98	10/10/2014 12:32	0	0	0
99	10/10/2014 12:33	0	0	0
100	10/10/2014 12:34	0	0	0
101	10/10/2014 12:35	0	0	0
102	10/10/2014 12:36	0	0	0
103	10/10/2014 12:37	0	0	0
104	10/10/2014 12:38	0	0	0
105	10/10/2014 12:39	0	0	0
106	10/10/2014 12:40	0	0	0
107	10/10/2014 12:41	0	0	0
108	10/10/2014 12:42	0	0	0
109	10/10/2014 12:43	0	0	0
110	10/10/2014 12:44	0	0	0.4
111	10/10/2014 12:45	0	0	0
112	10/10/2014 12:46	0	0	0
113	10/10/2014 12:47	0	0	0
114	10/10/2014 12:48	0	0	0
115	10/10/2014 12:49	0	0	0

52	10/10/2014 12:14	0	0	0
53	10/10/2014 12:15	0	0	0
54	10/10/2014 12:16	0	0	0
55	10/10/2014 12:17	0	0	0
56	10/10/2014 12:18	0	0	0
57	10/10/2014 12:19	0	0	0
58	10/10/2014 12:20	0	0	0
59	10/10/2014 12:21	0	0	0
60	10/10/2014 12:22	0	0	0
61	10/10/2014 12:23	0	0	0
62	10/10/2014 12:24	0	0	0
63	10/10/2014 12:25	0	0	0
64	10/10/2014 12:26	0	0	0
65	10/10/2014 12:27	0	0	0
66	10/10/2014 12:28	0	0	0
67	10/10/2014 12:29	0	0	0
68	10/10/2014 12:30	0	0	0
69	10/10/2014 12:31	0	0	0
70	10/10/2014 12:32	0	0	0
71	10/10/2014 12:33	0	0	0
72	10/10/2014 12:34	0	0	0
73	10/10/2014 12:35	0	0	0
74	10/10/2014 12:36	0	0	0
75	10/10/2014 12:37	0	0	0
76	10/10/2014 12:38	0	0	0
77	10/10/2014 12:39	0	0	0
78	10/10/2014 12:40	0	0	0
79	10/10/2014 12:41	0	0	0
80	10/10/2014 12:42	0	0	0
81	10/10/2014 12:43	0	0	0
82	10/10/2014 12:44	0	0	0
83	10/10/2014 12:45	0	0	0
84	10/10/2014 12:46	0	0	0
85	10/10/2014 12:47	0	0	0
86	10/10/2014 12:48	0	0	0
87	10/10/2014 12:49	0	0	0
88	10/10/2014 12:50	0	0	0
89	10/10/2014 12:51	0	0	0
90	10/10/2014 12:52	0	0	0
91	10/10/2014 12:53	0	0	0
92	10/10/2014 12:54	0	0	0
93	10/10/2014 12:55	0	0	0
94	10/10/2014 12:56	0	0	0
95	10/10/2014 12:57	0	0	0
96	10/10/2014 12:58	0	0	0
97	10/10/2014 12:59	0	0	0
98	10/10/2014 13:00	0	0	0
99	10/10/2014 13:01	0	0	0
100	10/10/2014 13:02	0	0	0
101	10/10/2014 13:03	0	0	0
102	10/10/2014 13:04	0	0	0
103	10/10/2014 13:05	0	0	0
104	10/10/2014 13:06	0	0	0
105	10/10/2014 13:07	0	0	0
106	10/10/2014 13:08	0	0	0
107	10/10/2014 13:09	0	0	0
108	10/10/2014 13:10	0	0	0
109	10/10/2014 13:11	0	0	0
110	10/10/2014 13:12	0	0	0
111	10/10/2014 13:13	0	0	0
112	10/10/2014 13:14	0	0	0
113	10/10/2014 13:15	0	0	0
114	10/10/2014 13:16	0	0	0
115	10/10/2014 13:17	0	0	0

116	10/10/2014 12:50	0	0	0.1
117	10/10/2014 12:51	0	0	0.1
118	10/10/2014 12:52	0	0	0
119	10/10/2014 12:53	0	0	0
120	10/10/2014 12:54	0	0	0
121	10/10/2014 12:55	0	0	0
122	10/10/2014 12:56	0	0	0
123	10/10/2014 12:57	0	0	0
124	10/10/2014 12:58	0	0	0
125	10/10/2014 12:59	0	0	0
126	10/10/2014 13:00	0	0	0
127	10/10/2014 13:01	0	0	0
128	10/10/2014 13:02	0	0	0
129	10/10/2014 13:03	0	0	0
130	10/10/2014 13:04	0	0	0
131	10/10/2014 13:05	0	0	0
132	10/10/2014 13:06	0	0	0
133	10/10/2014 13:07	0	0	0
134	10/10/2014 13:08	0	0	0
135	10/10/2014 13:09	0	0	0.1
136	10/10/2014 13:10	0	0	0
137	10/10/2014 13:11	0	0	0
138	10/10/2014 13:12	0	0	0
139	10/10/2014 13:13	0	0	0
140	10/10/2014 13:14	0	0	0.1
141	10/10/2014 13:15	0	0	0
142	10/10/2014 13:16	0	0	0
143	10/10/2014 13:17	0	0	0
144	10/10/2014 13:18	0	0	0
145	10/10/2014 13:19	0	0	0
146	10/10/2014 13:20	0	0	0
147	10/10/2014 13:21	0	0	0
148	10/10/2014 13:22	0	0	0
149	10/10/2014 13:23	0	0	0
150	10/10/2014 13:24	0	0	0
151	10/10/2014 13:25	0	0	0
152	10/10/2014 13:26	0	0	0
153	10/10/2014 13:27	0	0	0
154	10/10/2014 13:28	0	0	0
155	10/10/2014 13:29	0	0	0
156	10/10/2014 13:30	0	0	0
157	10/10/2014 13:31	0	0	0
158	10/10/2014 13:32	0	0	0
159	10/10/2014 13:33	0	0	0
160	10/10/2014 13:34	0	0	0
161	10/10/2014 13:35	0	0	0
162	10/10/2014 13:36	0	0	0
163	10/10/2014 13:37	0	0	0
164	10/10/2014 13:38	0	0	0
165	10/10/2014 13:39	0	0	0
166	10/10/2014 13:40	0	0	0
167	10/10/2014 13:41	0	0	0
168	10/10/2014 13:42	0	0	0
169	10/10/2014 13:43	0	0	0
170	10/10/2014 13:44	0	0	0
171	10/10/2014 13:45	0	0	0
172	10/10/2014 13:46	0	0	0
173	10/10/2014 13:47	0	0	0
174	10/10/2014 13:48	0	0	0
175	10/10/2014 13:49	0	0	0
176	10/10/2014 13:50	0	0	0
177	10/10/2014 13:51	0	0	0
178	10/10/2014 13:52	0	0	0
179	10/10/2014 13:53	0	0	0

116	10/10/2014 13:18	0	0	0
117	10/10/2014 13:19	0	0	0
118	10/10/2014 13:20	0	0	0
119	10/10/2014 13:21	0	0	0
120	10/10/2014 13:22	0	0	0
121	10/10/2014 13:23	0	0	0
122	10/10/2014 13:24	0	0	0
123	10/10/2014 13:25	0	0	0
124	10/10/2014 13:26	0	0	0
125	10/10/2014 13:27	0	0	0
126	10/10/2014 13:28	0	0	0
127	10/10/2014 13:29	0	0	0
128	10/10/2014 13:30	0	0	0
129	10/10/2014 13:31	0	0	0
130	10/10/2014 13:32	0	0	0
131	10/10/2014 13:33	0	0	0
132	10/10/2014 13:34	0	0	0
133	10/10/2014 13:35	0	0	0
134	10/10/2014 13:36	0	0	0
135	10/10/2014 13:37	0	0	0
136	10/10/2014 13:38	0	0	0
137	10/10/2014 13:39	0	0	0
138	10/10/2014 13:40	0	0	0
139	10/10/2014 13:41	0	0	0
140	10/10/2014 13:42	0	0	0
141	10/10/2014 13:43	0	0	0
142	10/10/2014 13:44	0	0	0
143	10/10/2014 13:45	0	0	0
144	10/10/2014 13:46	0	0	0
145	10/10/2014 13:47	0	0	0
146	10/10/2014 13:48	0	0	0
147	10/10/2014 13:49	0	0	0
148	10/10/2014 13:50	0	0	0
149	10/10/2014 13:51	0	0	0
150	10/10/2014 13:52	0	0	0
151	10/10/2014 13:53	0	0	0
152	10/10/2014 13:54	0	0	0
153	10/10/2014 13:55	0	0	0
154	10/10/2014 13:56	0	0	0
155	10/10/2014 13:57	0	0	0
156	10/10/2014 13:58	0	0	0
157	10/10/2014 13:59	0	0	0
158	10/10/2014 14:00	0	0	0
159	10/10/2014 14:01	0	0	0
160	10/10/2014 14:02	0	0	0
161	10/10/2014 14:03	0	0	0
162	10/10/2014 14:04	0	0	0
163	10/10/2014 14:05	0	0	0
164	10/10/2014 14:06	0	0	0
165	10/10/2014 14:07	0	0	0
166	10/10/2014 14:08	0	0	0
167	10/10/2014 14:09	0	0	0
168	10/10/2014 14:10	0	0	0
169	10/10/2014 14:11	0	0	0
170	10/10/2014 14:12	0	0	0
171	10/10/2014 14:13	0	0	0
172	10/10/2014 14:14	0	0	0
173	10/10/2014 14:15	0	0	0
174	10/10/2014 14:16	0	0	0
175	10/10/2014 14:17	0	0	0
176	10/10/2014 14:18	0	0	0
177	10/10/2014 14:19	0	0	0
178	10/10/2014 14:20	0	0	0
179	10/10/2014 14:21	0	0	0

180	10/10/2014 13:54	0	0	0
181	10/10/2014 13:55	0	0	0
182	10/10/2014 13:56	0	0	0
183	10/10/2014 13:57	0	0	0
184	10/10/2014 13:58	0	0	0
185	10/10/2014 13:59	0	0	0
186	10/10/2014 14:00	0	0	0
187	10/10/2014 14:01	0	0	0
188	10/10/2014 14:02	0	0	0
189	10/10/2014 14:03	0	0	0
190	10/10/2014 14:04	0	0	0
191	10/10/2014 14:05	0	0	0
192	10/10/2014 14:06	0	0	0
193	10/10/2014 14:07	0	0	0
194	10/10/2014 14:08	0	0	0
195	10/10/2014 14:09	0	0	0
196	10/10/2014 14:10	0	0	0
197	10/10/2014 14:11	0	0	0
198	10/10/2014 14:12	0	0	0
199	10/10/2014 14:13	0	0	0
200	10/10/2014 14:14	0	0	0
201	10/10/2014 14:15	0	0	0
202	10/10/2014 14:16	0	0	0
203	10/10/2014 14:17	0	0	0
204	10/10/2014 14:18	0	0	0
205	10/10/2014 14:19	0	0	0
206	10/10/2014 14:20	0	0	0
207	10/10/2014 14:21	0	0	0
208	10/10/2014 14:22	0	0	0
209	10/10/2014 14:23	0	0	0
210	10/10/2014 14:24	0	0	0.1
211	10/10/2014 14:25	0	0	0
212	10/10/2014 14:26	0	0	0
213	10/10/2014 14:27	0	0	0
214	10/10/2014 14:28	0	0	0
215	10/10/2014 14:29	0	0	0
216	10/10/2014 14:30	0	0	0
217	10/10/2014 14:31	0	0	0
218	10/10/2014 14:32	0	0	0
219	10/10/2014 14:33	0	0	0.1
220	10/10/2014 14:34	0	0	0.1
221	10/10/2014 14:35	0	0	0
222	10/10/2014 14:36	0	0	0.1
223	10/10/2014 14:37	0	0	0.1
224	10/10/2014 14:38	0	0	0.1
225	10/10/2014 14:39	0	0	0.1
226	10/10/2014 14:40	0	0	0.1
227	10/10/2014 14:41	0	0	0.1
228	10/10/2014 14:42	0	0	0.1
229	10/10/2014 14:43	0.1	0.1	0.1
230	10/10/2014 14:44	0	0	0.1
231	10/10/2014 14:45	0.1	0.1	0.1
232	10/10/2014 14:46	0.1	0.1	0.1
233	10/10/2014 14:47	0.1	0.1	0.1
234	10/10/2014 14:48	0.1	0.1	0.1
235	10/10/2014 14:49	0.1	0.1	0.1
236	10/10/2014 14:50	0.1	0.1	0.1
237	10/10/2014 14:51	0.1	0.1	0.1
238	10/10/2014 14:52	0.1	0.1	0.1
239	10/10/2014 14:53	0.1	0.1	0.1
240	10/10/2014 14:54	0.1	0.1	0.1
241	10/10/2014 14:55	0	0	0.1
242	10/10/2014 14:56	0	0	0
243	10/10/2014 14:57	0	0	0

180	10/10/2014 14:22	0	0	0
181	10/10/2014 14:23	0	0	0
182	10/10/2014 14:24	0	0	0
183	10/10/2014 14:25	0	0	0
184	10/10/2014 14:26	0	0	0
185	10/10/2014 14:27	0	0	0
186	10/10/2014 14:28	0	0	0
187	10/10/2014 14:29	0	0	0
188	10/10/2014 14:30	0	0	0
189	10/10/2014 14:31	0	0	0
190	10/10/2014 14:32	0	0	0
191	10/10/2014 14:33	0	0	0
192	10/10/2014 14:34	0	0	0
193	10/10/2014 14:35	0	0	0
194	10/10/2014 14:36	0	0	0
195	10/10/2014 14:37	0	0	0
196	10/10/2014 14:38	0	0	0
197	10/10/2014 14:39	0	0	0
198	10/10/2014 14:40	0	0	0
199	10/10/2014 14:41	0	0	0
200	10/10/2014 14:42	0	0	0
201	10/10/2014 14:43	0	0	0
202	10/10/2014 14:44	0	0	0
203	10/10/2014 14:45	0	0	0
204	10/10/2014 14:46	0	0	0
205	10/10/2014 14:47	0	0	0
206	10/10/2014 14:48	0	0	0
207	10/10/2014 14:49	0	0	0
208	10/10/2014 14:50	0	0	0
209	10/10/2014 14:51	0	0	0
210	10/10/2014 14:52	0	0	0
211	10/10/2014 14:53	0	0	0
212	10/10/2014 14:54	0	0	0
213	10/10/2014 14:55	0	0	0
214	10/10/2014 14:56	0	0	0
215	10/10/2014 14:57	0	0	0
216	10/10/2014 14:58	0	0	0
217	10/10/2014 14:59	0	0	0
218	10/10/2014 15:00	0	0	0
219	10/10/2014 15:01	0	0	0
220	10/10/2014 15:02	0	0	0
221	10/10/2014 15:03	0	0	0
222	10/10/2014 15:04	0	0	0
223	10/10/2014 15:05	0	0	0
224	10/10/2014 15:06	0	0	0
225	10/10/2014 15:07	0	0	0
226	10/10/2014 15:08	0	0	0
227	10/10/2014 15:09	0	0	0
228	10/10/2014 15:10	0	0	0
229	10/10/2014 15:11	0	0	0
230	10/10/2014 15:12	0	0	0
231	10/10/2014 15:13	0	0	0
232	10/10/2014 15:14	0	0	0
233	10/10/2014 15:15	0	0	0
234	10/10/2014 15:16	0	0	0
235	10/10/2014 15:17	0	0	0
236	10/10/2014 15:18	0	0	0
237	10/10/2014 15:19	0	0	0
238	10/10/2014 15:20	0	0	0
239	10/10/2014 15:21	0	0	0
240	10/10/2014 15:22	0	0	0
241	10/10/2014 15:23	0	0	0
242	10/10/2014 15:24	0	0	0
243	10/10/2014 15:25	0	0	0

244	10/10/2014 14:58	0	0	0
245	10/10/2014 14:59	0	0	0
246	10/10/2014 15:00	0	0	0
247	10/10/2014 15:01	0	0	0.6
248	10/10/2014 15:02	0	0	0.1
249	10/10/2014 15:03	0	0	0.1
250	10/10/2014 15:04	0	0	0.1
251	10/10/2014 15:05	0	0	0.1
252	10/10/2014 15:06	0	0	0.1
253	10/10/2014 15:07	0	0	0.1
254	10/10/2014 15:08	0	0	0
255	10/10/2014 15:09	0	0	0.1
256	10/10/2014 15:10	0	0	0.1
257	10/10/2014 15:11	0	0	0.1
258	10/10/2014 15:12	0	0	0.1
259	10/10/2014 15:13	0.1	0.1	0.1
260	10/10/2014 15:14	0	0	0.1
261	10/10/2014 15:15	0	0	0.1
262	10/10/2014 15:16	0	0	0.1
263	10/10/2014 15:17	0	0	0.1
264	10/10/2014 15:18	0	0	0.1
265	10/10/2014 15:19	0	0	0.1
266	10/10/2014 15:20	0	0	0.1
267	10/10/2014 15:21	0	0	0.1
268	10/10/2014 15:22	0	0	0.1
269	10/10/2014 15:23	0	0	0.1
270	10/10/2014 15:24	0	0	0.1
271	10/10/2014 15:25	0	0	0.1
272	10/10/2014 15:26	0	0	0.1
273	10/10/2014 15:27	0	0	0.1
274	10/10/2014 15:28	0	0	0
275	10/10/2014 15:29	0	0	0
276	10/10/2014 15:30	0	0	0
277	10/10/2014 15:31	0	0	0
278	10/10/2014 15:32	0	0	0
279	10/10/2014 15:33	0	0	0
280	10/10/2014 15:34	0	0	0
281	10/10/2014 15:35	0	0	0
282	10/10/2014 15:36	0	0	0
283	10/10/2014 15:37	0	0	0
284	10/10/2014 15:38	0	0	0
285	10/10/2014 15:39	0	0	0
286	10/10/2014 15:40	0	0	0.1
287	10/10/2014 15:41	0	0	0.1
288	10/10/2014 15:42	0	0	0.1
289	10/10/2014 15:43	0	0	0
290	10/10/2014 15:44	0	0	0.1
291	10/10/2014 15:45	0	0	0.1
292	10/10/2014 15:46	0	0	0
293	10/10/2014 15:47	0	0	0
294	10/10/2014 15:48	0	0	0
295	10/10/2014 15:49	0	0	0
296	10/10/2014 15:50	0	0	0
297	10/10/2014 15:51	0	0	0
298	10/10/2014 15:52	0	0	0.1
299	10/10/2014 15:53	0	0	0
300	10/10/2014 15:54	0	0	0
301	10/10/2014 15:55	0	0	0
302	10/10/2014 15:56	0	0	0.1
303	10/10/2014 15:57	0	0	0.1
304	10/10/2014 15:58	0	0	0
305	10/10/2014 15:59	0	0	0
306	10/10/2014 16:00	0	0	0
307	10/10/2014 16:01	0	0	0.1

244	10/10/2014 15:26	0	0	0
245	10/10/2014 15:27	0	0	0
246	10/10/2014 15:28	0	0	0
247	10/10/2014 15:29	0	0	0
248	10/10/2014 15:30	0	0	0
249	10/10/2014 15:31	0	0	0
250	10/10/2014 15:32	0	0	0
251	10/10/2014 15:33	0	0	0
252	10/10/2014 15:34	0	0	0
253	10/10/2014 15:35	0	0	0
254	10/10/2014 15:36	0	0	0
255	10/10/2014 15:37	0	0	0
256	10/10/2014 15:38	0	0	0
257	10/10/2014 15:39	0	0	0
258	10/10/2014 15:40	0	0	0
259	10/10/2014 15:41	0	0	0
260	10/10/2014 15:42	0	0	0
261	10/10/2014 15:43	0	0	0
262	10/10/2014 15:44	0	0	0
263	10/10/2014 15:45	0	0	0
264	10/10/2014 15:46	0	0	0
265	10/10/2014 15:47	0	0	0
266	10/10/2014 15:48	0	0	0
267	10/10/2014 15:49	0	0	0
268	10/10/2014 15:50	0	0	0
269	10/10/2014 15:51	0	0	0
270	10/10/2014 15:52	0	0	0
271	10/10/2014 15:53	0	0	0
272	10/10/2014 15:54	0	0	0
273	10/10/2014 15:55	0	0	0
274	10/10/2014 15:56	0	0	0
275	10/10/2014 15:57	0	0	0
276	10/10/2014 15:58	0	0	0
277	10/10/2014 15:59	0	0	0
278	10/10/2014 16:00	0	0	0
279	10/10/2014 16:01	0	0	0
280	10/10/2014 16:02	0	0	0
281	10/10/2014 16:03	0	0	0
282	10/10/2014 16:04	0	0	0
283	10/10/2014 16:05	0	0	0
284	10/10/2014 16:06	0	0	0
285	10/10/2014 16:07	0	0	0
286	10/10/2014 16:08	0	0	0
287	10/10/2014 16:09	0	0	0
288	10/10/2014 16:10	0	0	0
289	10/10/2014 16:11	0	0	0
290	10/10/2014 16:12	0	0	0
291	10/10/2014 16:13	0	0	0
292	10/10/2014 16:14	0	0	0
293	10/10/2014 16:15	0	0	0
294	10/10/2014 16:16	0	0	0
295	10/10/2014 16:17	0	0	0
296	10/10/2014 16:18	0	0	0
297	10/10/2014 16:19	0	0	0

308	10/10/2014 16:02	0	0	0.1
309	10/10/2014 16:03	0	0	0
310	10/10/2014 16:04	0	0	0
311	10/10/2014 16:05	0	0	0
312	10/10/2014 16:06	0	0	0
313	10/10/2014 16:07	0	0	0
314	10/10/2014 16:08	0	0	0
315	10/10/2014 16:09	0	0	0
316	10/10/2014 16:10	0	0	0
317	10/10/2014 16:11	0	0	0
318	10/10/2014 16:12	0	0	0.1
319	10/10/2014 16:13	0	0	0.1
320	10/10/2014 16:14	0	0	0.1
321	10/10/2014 16:15	0	0	0
322	10/10/2014 16:16	0	0	0.1
323	10/10/2014 16:17	0	0	0.1
324	10/10/2014 16:18	0	0	0.1
325	10/10/2014 16:19	0	0	0.1
326	10/10/2014 16:20	0	0	0.1
327	10/10/2014 16:21	0	0	0
328	10/10/2014 16:22	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000007
Data Points: 385 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/13/2014 09:58

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/13/2014 9:59	0		0		0	
2	10/13/2014 10:00	0		0		0	
3	10/13/2014 10:01	0		0		0	
4	10/13/2014 10:02	0		0		0	
5	10/13/2014 10:03	0		0		0	
6	10/13/2014 10:04	0		0		0	
7	10/13/2014 10:05	0		0		0	
8	10/13/2014 10:06	0		0		0	
9	10/13/2014 10:07	0		0		0	
10	10/13/2014 10:08	0		0		0	
11	10/13/2014 10:09	0		0		0	
12	10/13/2014 10:10	0		0		0	
13	10/13/2014 10:11	0		0		0	
14	10/13/2014 10:12	0		0		0	
15	10/13/2014 10:13	0		0		0	
16	10/13/2014 10:14	0		0		0	
17	10/13/2014 10:15	0		0		0	
18	10/13/2014 10:16	0		0		0	
19	10/13/2014 10:17	0		0		0	
20	10/13/2014 10:18	0		0		0	
21	10/13/2014 10:19	0		0		0	
22	10/13/2014 10:20	0		0		0	
23	10/13/2014 10:21	0		0		0	
24	10/13/2014 10:22	0		0		0	
25	10/13/2014 10:23	0		0		0	
26	10/13/2014 10:24	0		0		0	
27	10/13/2014 10:25	0		0		0	
28	10/13/2014 10:26	0		0		0	
29	10/13/2014 10:27	0		0		0	
30	10/13/2014 10:28	0		0		0	
31	10/13/2014 10:29	0		0		0	
32	10/13/2014 10:30	0		0		0	
33	10/13/2014 10:31	0		0		0	
34	10/13/2014 10:32	0		0		0	
35	10/13/2014 10:33	0		0		0	
36	10/13/2014 10:34	0		0		0	
37	10/13/2014 10:35	0		0		0	
38	10/13/2014 10:36	0		0		0	
39	10/13/2014 10:37	0		0		0	
40	10/13/2014 10:38	0		0		0	
41	10/13/2014 10:39	0		0		0	
42	10/13/2014 10:40	0		0		0	
43	10/13/2014 10:41	0		0		0	
44	10/13/2014 10:42	0		0		0	
45	10/13/2014 10:43	0		0		0	
46	10/13/2014 10:44	0		0		0.1	
47	10/13/2014 10:45	0		0		0	
48	10/13/2014 10:46	0		0		0	
49	10/13/2014 10:47	0		0		0.1	
50	10/13/2014 10:48	0		0		0.1	
51	10/13/2014 10:49	0.1		0.1		0.1	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000013
Data Points: 347 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/13/2014 10:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/13/2014 10:10	0		0		0	
2	10/13/2014 10:11	0		0		0	
3	10/13/2014 10:12	0		0		0	
4	10/13/2014 10:13	0		0		0	
5	10/13/2014 10:14	0		0		0	
6	10/13/2014 10:15	0		0		0	
7	10/13/2014 10:16	0		0		0	
8	10/13/2014 10:17	0		0		0	
9	10/13/2014 10:18	0		0		0	
10	10/13/2014 10:19	0		0		0	
11	10/13/2014 10:20	0		0		0	
12	10/13/2014 10:21	0		0		0	
13	10/13/2014 10:22	0		0		0	
14	10/13/2014 10:23	0		0		0	
15	10/13/2014 10:24	0		0		0	
16	10/13/2014 10:25	0		0		0	
17	10/13/2014 10:26	0		0		0	
18	10/13/2014 10:27	0		0		0	
19	10/13/2014 10:28	0		0		0	
20	10/13/2014 10:29	0		0		0	
21	10/13/2014 10:30	0		0		0	
22	10/13/2014 10:31	0		0		0	
23	10/13/2014 10:32	0		0		0	
24	10/13/2014 10:33	0		0		0	
25	10/13/2014 10:34	0		0		0	
26	10/13/2014 10:35	0		0		0	
27	10/13/2014 10:36	0		0		0	
28	10/13/2014 10:37	0		0		0	
29	10/13/2014 10:38	0		0		0	
30	10/13/2014 10:39	0		0		0	
31	10/13/2014 10:40	0		0		0	
32	10/13/2014 10:41	0		0		0	
33	10/13/2014 10:42	0		0		0	
34	10/13/2014 10:43	0		0		0	
35	10/13/2014 10:44	0		0		0	
36	10/13/2014 10:45	0		0		0	
37	10/13/2014 10:46	0		0		0	
38	10/13/2014 10:47	0		0		0	
39	10/13/2014 10:48	0		0		0	
40	10/13/2014 10:49	0		0		0	
41	10/13/2014 10:50	0		0		0	
42	10/13/2014 10:51	0		0		0	
43	10/13/2014 10:52	0		0		0	
44	10/13/2014 10:53	0		0		0.1	
45	10/13/2014 10:54	0		0		0.1	
46	10/13/2014 10:55	0		0		0.1	
47	10/13/2014 10:56	0		0		0	
48	10/13/2014 10:57	0		0		0	
49	10/13/2014 10:58	0		0		0	
50	10/13/2014 10:59	0		0		0	
51	10/13/2014 11:00	0		0		0	

52	10/13/2014 10:50	0.1	0.1	0.1
53	10/13/2014 10:51	0.1	0.1	0.1
54	10/13/2014 10:52	0.1	0.1	0.1
55	10/13/2014 10:53	0.1	0.1	0.1
56	10/13/2014 10:54	0.1	0.1	0.1
57	10/13/2014 10:55	0.1	0.1	0.1
58	10/13/2014 10:56	0.1	0.1	0.2
59	10/13/2014 10:57	0	0	0.1
60	10/13/2014 10:58	0	0	0
61	10/13/2014 10:59	0	0	0
62	10/13/2014 11:00	0	0	0
63	10/13/2014 11:01	0	0	0
64	10/13/2014 11:02	0	0	0
65	10/13/2014 11:03	0	0	0
66	10/13/2014 11:04	0	0	0
67	10/13/2014 11:05	0	0	0.2
68	10/13/2014 11:06	0	0	0.2
69	10/13/2014 11:07	0	0	0
70	10/13/2014 11:08	0	0	0
71	10/13/2014 11:09	0	0	0
72	10/13/2014 11:10	0	0	0
73	10/13/2014 11:11	0	0	0
74	10/13/2014 11:12	0	0	0
75	10/13/2014 11:13	0	0	0
76	10/13/2014 11:14	0	0	0
77	10/13/2014 11:15	0	0	0
78	10/13/2014 11:16	0	0	0
79	10/13/2014 11:17	0	0	0
80	10/13/2014 11:18	0	0	0
81	10/13/2014 11:19	0	0	0
82	10/13/2014 11:20	0	0	0
83	10/13/2014 11:21	0	0	0
84	10/13/2014 11:22	0	0	0
85	10/13/2014 11:23	0	0	0
86	10/13/2014 11:24	0	0	0
87	10/13/2014 11:25	0	0	0
88	10/13/2014 11:26	0	0	0
89	10/13/2014 11:27	0	0	0
90	10/13/2014 11:28	0	0	0
91	10/13/2014 11:29	0	0	0
92	10/13/2014 11:30	0	0	0
93	10/13/2014 11:31	0	0	0
94	10/13/2014 11:32	0	0	0
95	10/13/2014 11:33	0	0	0
96	10/13/2014 11:34	0	0	0
97	10/13/2014 11:35	0	0	0
98	10/13/2014 11:36	0	0	0
99	10/13/2014 11:37	0	0	0
100	10/13/2014 11:38	0	0	0
101	10/13/2014 11:39	0	0	0
102	10/13/2014 11:40	0	0	0
103	10/13/2014 11:41	0	0	0
104	10/13/2014 11:42	0	0	0
105	10/13/2014 11:43	0	0	0
106	10/13/2014 11:44	0	0	0
107	10/13/2014 11:45	0	0	0
108	10/13/2014 11:46	0	0	0
109	10/13/2014 11:47	0	0	0
110	10/13/2014 11:48	0	0	0
111	10/13/2014 11:49	0	0	0
112	10/13/2014 11:50	0	0	0
113	10/13/2014 11:51	0	0	0
114	10/13/2014 11:52	0	0	0
115	10/13/2014 11:53	0	0	0

52	10/13/2014 11:01	0	0	0
53	10/13/2014 11:02	0	0	0
54	10/13/2014 11:03	0	0	0
55	10/13/2014 11:04	0	0	0
56	10/13/2014 11:05	0	0	0
57	10/13/2014 11:06	0	0	0.2
58	10/13/2014 11:07	0	0	0
59	10/13/2014 11:08	0	0	0
60	10/13/2014 11:09	0	0	0.1
61	10/13/2014 11:10	0	0	0
62	10/13/2014 11:11	0	0	0
63	10/13/2014 11:12	0	0	0
64	10/13/2014 11:13	0	0	0
65	10/13/2014 11:14	0	0	0
66	10/13/2014 11:15	0	0	0
67	10/13/2014 11:16	0	0	0
68	10/13/2014 11:17	0	0	0
69	10/13/2014 11:18	0	0	0
70	10/13/2014 11:19	0	0	0
71	10/13/2014 11:20	0	0	0
72	10/13/2014 11:21	0	0	0
73	10/13/2014 11:22	0	0	0
74	10/13/2014 11:23	0	0	0
75	10/13/2014 11:24	0	0	0
76	10/13/2014 11:25	0	0	0
77	10/13/2014 11:26	0	0	0
78	10/13/2014 11:27	0	0	0
79	10/13/2014 11:28	0	0	0
80	10/13/2014 11:29	0	0	0
81	10/13/2014 11:30	0	0	0
82	10/13/2014 11:31	0	0	0
83	10/13/2014 11:32	0	0	0.1
84	10/13/2014 11:33	0	0	0
85	10/13/2014 11:34	0	0	0
86	10/13/2014 11:35	0	0	0
87	10/13/2014 11:36	0	0	0
88	10/13/2014 11:37	0	0	0
89	10/13/2014 11:38	0	0	0
90	10/13/2014 11:39	0	0	0
91	10/13/2014 11:40	0	0	0
92	10/13/2014 11:41	0	0	0
93	10/13/2014 11:42	0	0	0
94	10/13/2014 11:43	0	0	0
95	10/13/2014 11:44	0	0	0
96	10/13/2014 11:45	0	0	0
97	10/13/2014 11:46	0	0	0
98	10/13/2014 11:47	0	0	0
99	10/13/2014 11:48	0	0	0
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102	10/13/2014 11:51	0	0	0
103	10/13/2014 11:52	0	0	0
104	10/13/2014 11:53	0	0	0
105	10/13/2014 11:54	0	0	0
106	10/13/2014 11:55	0	0	0
107	10/13/2014 11:56	0	0	0
108	10/13/2014 11:57	0	0	0
109	10/13/2014 11:58	0	0	0
110	10/13/2014 11:59	0	0	0
111	10/13/2014 12:00	0	0	0
112	10/13/2014 12:01	0	0	0
113	10/13/2014 12:02	0	0	0
114	10/13/2014 12:03	0	0	0
115	10/13/2014 12:04	0	0	0

116	10/13/2014 11:54	0	0	0
117	10/13/2014 11:55	0	0	0
118	10/13/2014 11:56	0	0	0
119	10/13/2014 11:57	0	0	0
120	10/13/2014 11:58	0	0	0
121	10/13/2014 11:59	0	0	0
122	10/13/2014 12:00	0	0	0
123	10/13/2014 12:01	0	0	0
124	10/13/2014 12:02	0	0	0
125	10/13/2014 12:03	0	0	0
126	10/13/2014 12:04	0	0	0
127	10/13/2014 12:05	0	0	0
128	10/13/2014 12:06	0	0	0
129	10/13/2014 12:07	0	0	0
130	10/13/2014 12:08	0	0	0
131	10/13/2014 12:09	0	0	0
132	10/13/2014 12:10	0	0	0
133	10/13/2014 12:11	0	0	0
134	10/13/2014 12:12	0	0	0
135	10/13/2014 12:13	0	0	0
136	10/13/2014 12:14	0	0	0
137	10/13/2014 12:15	0	0	0
138	10/13/2014 12:16	0	0	0
139	10/13/2014 12:17	0	0	0
140	10/13/2014 12:18	0	0	0
141	10/13/2014 12:19	0	0	0
142	10/13/2014 12:20	0	0	0
143	10/13/2014 12:21	0	0	0
144	10/13/2014 12:22	0	0	0
145	10/13/2014 12:23	0	0	0
146	10/13/2014 12:24	0	0	0
147	10/13/2014 12:25	0	0	0
148	10/13/2014 12:26	0	0	0
149	10/13/2014 12:27	0	0	0
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151	10/13/2014 12:29	0	0	0
152	10/13/2014 12:30	0	0	0
153	10/13/2014 12:31	0	0	0
154	10/13/2014 12:32	0	0	0
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156	10/13/2014 12:34	0	0	0
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158	10/13/2014 12:36	0	0	0
159	10/13/2014 12:37	0	0	0
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161	10/13/2014 12:39	0	0	0
162	10/13/2014 12:40	0	0	0
163	10/13/2014 12:41	0	0	0
164	10/13/2014 12:42	0	0	0
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166	10/13/2014 12:44	0	0	0
167	10/13/2014 12:45	0	0	0
168	10/13/2014 12:46	0	0	0
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173	10/13/2014 12:51	0	0	0
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175	10/13/2014 12:53	0	0	0
176	10/13/2014 12:54	0	0	0
177	10/13/2014 12:55	0	0	0
178	10/13/2014 12:56	0	0	0
179	10/13/2014 12:57	0	0	0

116	10/13/2014 12:05	0	0	0
117	10/13/2014 12:06	0	0	0
118	10/13/2014 12:07	0	0	0
119	10/13/2014 12:08	0	0	0
120	10/13/2014 12:09	0	0	0
121	10/13/2014 12:10	0	0	0
122	10/13/2014 12:11	0	0	0
123	10/13/2014 12:12	0	0	0
124	10/13/2014 12:13	0	0	0
125	10/13/2014 12:14	0	0	0
126	10/13/2014 12:15	0	0	0
127	10/13/2014 12:16	0	0	0
128	10/13/2014 12:17	0	0	0
129	10/13/2014 12:18	0	0	0
130	10/13/2014 12:19	0	0	0
131	10/13/2014 12:20	0	0	0
132	10/13/2014 12:21	0	0	0
133	10/13/2014 12:22	0	0	0
134	10/13/2014 12:23	0	0	0
135	10/13/2014 12:24	0	0	0
136	10/13/2014 12:25	0	0	0
137	10/13/2014 12:26	0	0	0
138	10/13/2014 12:27	0	0	0
139	10/13/2014 12:28	0	0	0
140	10/13/2014 12:29	0	0	0
141	10/13/2014 12:30	0	0	0
142	10/13/2014 12:31	0	0	0
143	10/13/2014 12:32	0	0	0
144	10/13/2014 12:33	0	0	0
145	10/13/2014 12:34	0	0	0
146	10/13/2014 12:35	0	0	0
147	10/13/2014 12:36	0	0	0
148	10/13/2014 12:37	0	0	0
149	10/13/2014 12:38	0	0	0
150	10/13/2014 12:39	0	0	0
151	10/13/2014 12:40	0	0	0
152	10/13/2014 12:41	0	0	0
153	10/13/2014 12:42	0	0	0
154	10/13/2014 12:43	0	0	0
155	10/13/2014 12:44	0	0	0
156	10/13/2014 12:45	0	0	0
157	10/13/2014 12:46	0	0	0
158	10/13/2014 12:47	0	0	0
159	10/13/2014 12:48	0	0	0
160	10/13/2014 12:49	0	0	0
161	10/13/2014 12:50	0	0	0
162	10/13/2014 12:51	0	0	0
163	10/13/2014 12:52	0	0	0
164	10/13/2014 12:53	0	0	0
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166	10/13/2014 12:55	0	0	0
167	10/13/2014 12:56	0	0	0
168	10/13/2014 12:57	0	0	0
169	10/13/2014 12:58	0	0	0
170	10/13/2014 12:59	0	0	0
171	10/13/2014 13:00	0	0	0
172	10/13/2014 13:01	0	0	0
173	10/13/2014 13:02	0	0	0
174	10/13/2014 13:03	0	0	0
175	10/13/2014 13:04	0	0	0
176	10/13/2014 13:05	0	0	0
177	10/13/2014 13:06	0	0	0
178	10/13/2014 13:07	0	0	0
179	10/13/2014 13:08	0	0	0

180	10/13/2014 12:58	0	0	0
181	10/13/2014 12:59	0	0	0
182	10/13/2014 13:00	0	0	0
183	10/13/2014 13:01	0	0	0
184	10/13/2014 13:02	0	0	0
185	10/13/2014 13:03	0	0	0
186	10/13/2014 13:04	0	0	0
187	10/13/2014 13:05	0	0	0
188	10/13/2014 13:06	0	2.5	29.6
189	10/13/2014 13:07	0	0.1	1.3
190	10/13/2014 13:08	0	0	0.4
191	10/13/2014 13:09	0	0.4	3
192	10/13/2014 13:10	0	0.3	2.4
193	10/13/2014 13:11	0	0.1	1
194	10/13/2014 13:12	0	1.6	28.5
195	10/13/2014 13:13	0	0	0
196	10/13/2014 13:14	0	0	0
197	10/13/2014 13:15	0	0	0
198	10/13/2014 13:16	0	0	0
199	10/13/2014 13:17	0	0	0
200	10/13/2014 13:18	0	0	0
201	10/13/2014 13:19	0	0	0
202	10/13/2014 13:20	0	0	0
203	10/13/2014 13:21	0	0	0
204	10/13/2014 13:22	0	0	0
205	10/13/2014 13:23	0	0	0
206	10/13/2014 13:24	0	0	0
207	10/13/2014 13:25	0	0	0
208	10/13/2014 13:26	0	0	0
209	10/13/2014 13:27	0	0	0
210	10/13/2014 13:28	0	0	0
211	10/13/2014 13:29	0	0	0
212	10/13/2014 13:30	0	0	0
213	10/13/2014 13:31	0	0	0
214	10/13/2014 13:32	0	0	0
215	10/13/2014 13:33	0	0	0
216	10/13/2014 13:34	0	0	0
217	10/13/2014 13:35	0	0	0
218	10/13/2014 13:36	0	0	0
219	10/13/2014 13:37	0	0	0
220	10/13/2014 13:38	0	0	0
221	10/13/2014 13:39	0	0	0
222	10/13/2014 13:40	0	0	0
223	10/13/2014 13:41	0	0	0
224	10/13/2014 13:42	0	0	0
225	10/13/2014 13:43	0	0	0
226	10/13/2014 13:44	0	0	0
227	10/13/2014 13:45	0	0	0
228	10/13/2014 13:46	0	0	0
229	10/13/2014 13:47	0	0	0
230	10/13/2014 13:48	0	0	0
231	10/13/2014 13:49	0	0	0
232	10/13/2014 13:50	0	0	0
233	10/13/2014 13:51	0	0	0
234	10/13/2014 13:52	0	0	0
235	10/13/2014 13:53	0	0	0
236	10/13/2014 13:54	0	0	0
237	10/13/2014 13:55	0	0	0
238	10/13/2014 13:56	0	0	0
239	10/13/2014 13:57	0	0	0
240	10/13/2014 13:58	0	0	0
241	10/13/2014 13:59	0	0	0
242	10/13/2014 14:00	0	0	0
243	10/13/2014 14:01	0	0	0

180	10/13/2014 13:09	0	0	0
181	10/13/2014 13:10	0	0	0
182	10/13/2014 13:11	0	0	0
183	10/13/2014 13:12	0	0	0
184	10/13/2014 13:13	0	0	0
185	10/13/2014 13:14	0	0	0
186	10/13/2014 13:15	0	0	0
187	10/13/2014 13:16	0	0	0
188	10/13/2014 13:17	0	0	0
189	10/13/2014 13:18	0	0	0
190	10/13/2014 13:19	0	0	0
191	10/13/2014 13:20	0	0	0
192	10/13/2014 13:21	0	0	0
193	10/13/2014 13:22	0	0	0
194	10/13/2014 13:23	0	0	0
195	10/13/2014 13:24	0	0	0
196	10/13/2014 13:25	0	0	0
197	10/13/2014 13:26	0	0	0
198	10/13/2014 13:27	0	0	0
199	10/13/2014 13:28	0	0	0
200	10/13/2014 13:29	0	0	0
201	10/13/2014 13:30	0	0	0
202	10/13/2014 13:31	0	0	0
203	10/13/2014 13:32	0	0	0
204	10/13/2014 13:33	0	0	0
205	10/13/2014 13:34	0	0	0
206	10/13/2014 13:35	0	0	0
207	10/13/2014 13:36	0	0	0
208	10/13/2014 13:37	0	0	0
209	10/13/2014 13:38	0	0	0
210	10/13/2014 13:39	0	0	0
211	10/13/2014 13:40	0	0	0
212	10/13/2014 13:41	0	0	0
213	10/13/2014 13:42	0	0	0
214	10/13/2014 13:43	0	0	0
215	10/13/2014 13:44	0	0	0
216	10/13/2014 13:45	0	0	0
217	10/13/2014 13:46	0	0	0
218	10/13/2014 13:47	0	0	0
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222	10/13/2014 13:51	0	0	0
223	10/13/2014 13:52	0	0	0
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230	10/13/2014 13:59	0	0	0
231	10/13/2014 14:00	0	0	0
232	10/13/2014 14:01	0	0	0
233	10/13/2014 14:02	0	0	0
234	10/13/2014 14:03	0	0	0
235	10/13/2014 14:04	0	0	0
236	10/13/2014 14:05	0	0	0
237	10/13/2014 14:06	0	0	0
238	10/13/2014 14:07	0	0	0
239	10/13/2014 14:08	0	0	0
240	10/13/2014 14:09	0	0	0
241	10/13/2014 14:10	0	0	0
242	10/13/2014 14:11	0	0	0
243	10/13/2014 14:12	0	0	0

244	10/13/2014 14:02	0	0	0
245	10/13/2014 14:03	0	0	0
246	10/13/2014 14:04	0	0	0
247	10/13/2014 14:05	0	0	0
248	10/13/2014 14:06	0	0	0
249	10/13/2014 14:07	0	0	0
250	10/13/2014 14:08	0	0	0
251	10/13/2014 14:09	0	0	0
252	10/13/2014 14:10	0	0	0
253	10/13/2014 14:11	0	0	0
254	10/13/2014 14:12	0	0	0
255	10/13/2014 14:13	0	0	0
256	10/13/2014 14:14	0	0	0
257	10/13/2014 14:15	0	0	0
258	10/13/2014 14:16	0	0	0
259	10/13/2014 14:17	0	0	0
260	10/13/2014 14:18	0	0	0
261	10/13/2014 14:19	0	0	0
262	10/13/2014 14:20	0	0	0
263	10/13/2014 14:21	0	0	0
264	10/13/2014 14:22	0	0	0
265	10/13/2014 14:23	0	0	0
266	10/13/2014 14:24	0	0	0
267	10/13/2014 14:25	0	0	0
268	10/13/2014 14:26	0	0	0
269	10/13/2014 14:27	0	0	0
270	10/13/2014 14:28	0	0	0
271	10/13/2014 14:29	0	0	0
272	10/13/2014 14:30	0	0	0
273	10/13/2014 14:31	0	0	0
274	10/13/2014 14:32	0	0	0
275	10/13/2014 14:33	0	0	0
276	10/13/2014 14:34	0	0	0
277	10/13/2014 14:35	0	0	0
278	10/13/2014 14:36	0	0	0.1
279	10/13/2014 14:37	0	0	0
280	10/13/2014 14:38	0	0	0
281	10/13/2014 14:39	0	0	0
282	10/13/2014 14:40	0	0	0
283	10/13/2014 14:41	0	0	0
284	10/13/2014 14:42	0	0	0.2
285	10/13/2014 14:43	0	0	0
286	10/13/2014 14:44	0	0	0
287	10/13/2014 14:45	0	0	0
288	10/13/2014 14:46	0	0	0
289	10/13/2014 14:47	0	0	0
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291	10/13/2014 14:49	0	0	0
292	10/13/2014 14:50	0	0	0
293	10/13/2014 14:51	0	0	0
294	10/13/2014 14:52	0	0	0
295	10/13/2014 14:53	0	0	0
296	10/13/2014 14:54	0	0	0
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298	10/13/2014 14:56	0	0	0.1
299	10/13/2014 14:57	0	0	0
300	10/13/2014 14:58	0	0	0
301	10/13/2014 14:59	0	0	0
302	10/13/2014 15:00	0	0	0
303	10/13/2014 15:01	0	0	0
304	10/13/2014 15:02	0	0	0
305	10/13/2014 15:03	0	0	0
306	10/13/2014 15:04	0	0	0
307	10/13/2014 15:05	0	0	0

244	10/13/2014 14:13	0	0	0
245	10/13/2014 14:14	0	0	0
246	10/13/2014 14:15	0	0	0
247	10/13/2014 14:16	0	0	0
248	10/13/2014 14:17	0	0	0
249	10/13/2014 14:18	0	0	0
250	10/13/2014 14:19	0	0	0
251	10/13/2014 14:20	0	0	0
252	10/13/2014 14:21	0	0	0
253	10/13/2014 14:22	0	0	0
254	10/13/2014 14:23	0	0	0
255	10/13/2014 14:24	0	0	0
256	10/13/2014 14:25	0	0	0
257	10/13/2014 14:26	0	0	0
258	10/13/2014 14:27	0	0	0
259	10/13/2014 14:28	0	0	0
260	10/13/2014 14:29	0	0	0
261	10/13/2014 14:30	0	0	0
262	10/13/2014 14:31	0	0	0
263	10/13/2014 14:32	0	0	0
264	10/13/2014 14:33	0	0	0
265	10/13/2014 14:34	0	0	0
266	10/13/2014 14:35	0	0	0
267	10/13/2014 14:36	0	0	0
268	10/13/2014 14:37	0	0	0
269	10/13/2014 14:38	0	0	0
270	10/13/2014 14:39	0	0	0
271	10/13/2014 14:40	0	0	0
272	10/13/2014 14:41	0	0	0
273	10/13/2014 14:42	0	0	0
274	10/13/2014 14:43	0	0	0
275	10/13/2014 14:44	0	0	0
276	10/13/2014 14:45	0	0	0
277	10/13/2014 14:46	0	0	0
278	10/13/2014 14:47	0	0	0
279	10/13/2014 14:48	0	0	0
280	10/13/2014 14:49	0	0	0
281	10/13/2014 14:50	0	0	0
282	10/13/2014 14:51	0	0	0
283	10/13/2014 14:52	0	0	0
284	10/13/2014 14:53	0	0	0
285	10/13/2014 14:54	0	0	0
286	10/13/2014 14:55	0	0	0
287	10/13/2014 14:56	0	0	0
288	10/13/2014 14:57	0	0	0
289	10/13/2014 14:58	0	0	0
290	10/13/2014 14:59	0	0	0
291	10/13/2014 15:00	0	0	0
292	10/13/2014 15:01	0	0	0
293	10/13/2014 15:02	0	0	0
294	10/13/2014 15:03	0	0	0
295	10/13/2014 15:04	0	0	0
296	10/13/2014 15:05	0	0	0
297	10/13/2014 15:06	0	0	0
298	10/13/2014 15:07	0	0	0
299	10/13/2014 15:08	0	0	0
300	10/13/2014 15:09	0	0	0
301	10/13/2014 15:10	0	0	0
302	10/13/2014 15:11	0	0	0
303	10/13/2014 15:12	0	0	0
304	10/13/2014 15:13	0	0	0
305	10/13/2014 15:14	0	0	0
306	10/13/2014 15:15	0	0	0
307	10/13/2014 15:16	0	0	0

308	10/13/2014 15:06	0	0	0
309	10/13/2014 15:07	0	0	0
310	10/13/2014 15:08	0	0	0
311	10/13/2014 15:09	0	0	0
312	10/13/2014 15:10	0	0	0
313	10/13/2014 15:11	0	0	0
314	10/13/2014 15:12	0	0	0
315	10/13/2014 15:13	0	0	0.1
316	10/13/2014 15:14	0	0	0
317	10/13/2014 15:15	0	0	0
318	10/13/2014 15:16	0	0	0
319	10/13/2014 15:17	0	0	0
320	10/13/2014 15:18	0	0	0
321	10/13/2014 15:19	0	0	0
322	10/13/2014 15:20	0	0	0
323	10/13/2014 15:21	0	0	0
324	10/13/2014 15:22	0	0	0
325	10/13/2014 15:23	0	0	0
326	10/13/2014 15:24	0	0	0
327	10/13/2014 15:25	0	0	0
328	10/13/2014 15:26	0	0	0
329	10/13/2014 15:27	0	0	0
330	10/13/2014 15:28	0	0	0
331	10/13/2014 15:29	0	0	0
332	10/13/2014 15:30	0	0	0
333	10/13/2014 15:31	0	0	0
334	10/13/2014 15:32	0	0	0
335	10/13/2014 15:33	0	0	0
336	10/13/2014 15:34	0	0	0
337	10/13/2014 15:35	0	0	0
338	10/13/2014 15:36	0	0	0
339	10/13/2014 15:37	0	0	0.1
340	10/13/2014 15:38	0	0	0
341	10/13/2014 15:39	0	0	0
342	10/13/2014 15:40	0	0	0
343	10/13/2014 15:41	0	0	0
344	10/13/2014 15:42	0	0	0
345	10/13/2014 15:43	0	0	0
346	10/13/2014 15:44	0	0	0
347	10/13/2014 15:45	0	0	0
348	10/13/2014 15:46	0	0	0
349	10/13/2014 15:47	0	0	0
350	10/13/2014 15:48	0	0	0
351	10/13/2014 15:49	0	0	0
352	10/13/2014 15:50	0	0	0
353	10/13/2014 15:51	0	0	0
354	10/13/2014 15:52	0	0	0
355	10/13/2014 15:53	0	0	0
356	10/13/2014 15:54	0	0	0.1
357	10/13/2014 15:55	0	0	0
358	10/13/2014 15:56	0	0	0
359	10/13/2014 15:57	0	0	0.1
360	10/13/2014 15:58	0	0	0.1
361	10/13/2014 15:59	0	0	0
362	10/13/2014 16:00	0	0	0
363	10/13/2014 16:01	0	0	0.1
364	10/13/2014 16:02	0	0	0
365	10/13/2014 16:03	0	0	0
366	10/13/2014 16:04	0	0	0
367	10/13/2014 16:05	0	0	0
368	10/13/2014 16:06	0	0	0
369	10/13/2014 16:07	0	0	0
370	10/13/2014 16:08	0	0	0
371	10/13/2014 16:09	0	0	0

308	10/13/2014 15:17	0	0	0
309	10/13/2014 15:18	0	0	0
310	10/13/2014 15:19	0	0	0
311	10/13/2014 15:20	0	0	0
312	10/13/2014 15:21	0	0	0
313	10/13/2014 15:22	0	0	0
314	10/13/2014 15:23	0	0	0
315	10/13/2014 15:24	0	0	0
316	10/13/2014 15:25	0	0	0
317	10/13/2014 15:26	0	0	0
318	10/13/2014 15:27	0	0	0
319	10/13/2014 15:28	0	0	0
320	10/13/2014 15:29	0	0	0
321	10/13/2014 15:30	0	0	0
322	10/13/2014 15:31	0	0	0
323	10/13/2014 15:32	0	0	0
324	10/13/2014 15:33	0	0	0
325	10/13/2014 15:34	0	0	0
326	10/13/2014 15:35	0	0	0
327	10/13/2014 15:36	0	0	0
328	10/13/2014 15:37	0	0	0
329	10/13/2014 15:38	0	0	0
330	10/13/2014 15:39	0	0	0
331	10/13/2014 15:40	0	0	0
332	10/13/2014 15:41	0	0	0
333	10/13/2014 15:42	0	0	0
334	10/13/2014 15:43	0	0	0
335	10/13/2014 15:44	0	0	0
336	10/13/2014 15:45	0	0	0
337	10/13/2014 15:46	0	0	0
338	10/13/2014 15:47	0	0	0
339	10/13/2014 15:48	0	0	0
340	10/13/2014 15:49	0	0	0
341	10/13/2014 15:50	0	0	0
342	10/13/2014 15:51	0	0	0
343	10/13/2014 15:52	0	0	0
344	10/13/2014 15:53	0	0	0
345	10/13/2014 15:54	0	0	0
346	10/13/2014 15:55	0	0	0
347	10/13/2014 15:56	0	0	0

372	10/13/2014 16:10	0	0	0
373	10/13/2014 16:11	0	0	0
374	10/13/2014 16:12	0	0	0
375	10/13/2014 16:13	0	0	0
376	10/13/2014 16:14	0	0	0
377	10/13/2014 16:15	0	0	0
378	10/13/2014 16:16	0	0	0
379	10/13/2014 16:17	0	0	0
380	10/13/2014 16:18	0	0	0
381	10/13/2014 16:19	0	0	0
382	10/13/2014 16:20	0	0	0
383	10/13/2014 16:21	0	0	0
384	10/13/2014 16:22	0	0	0
385	10/13/2014 16:23	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000009
Data Points: 312 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/14/2014 10:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/14/2014 11:10	0		0		0	
2	10/14/2014 11:11	0		0		0	
3	10/14/2014 11:12	0		0		0	
4	10/14/2014 11:13	0		0		0	
5	10/14/2014 11:14	0		0		0	
6	10/14/2014 11:15	0		0		0	
7	10/14/2014 11:16	0		0		0	
8	10/14/2014 11:17	0		0		0	
9	10/14/2014 11:18	0		0		0	
10	10/14/2014 11:19	0		0		0	
11	10/14/2014 11:20	0		0		0	
12	10/14/2014 11:21	0		0		0	
13	10/14/2014 11:22	0		0		0	
14	10/14/2014 11:23	0		0		0	
15	10/14/2014 11:24	0		0		0	
16	10/14/2014 11:25	0		0		0	
17	10/14/2014 11:26	0		0		0	
18	10/14/2014 11:27	0		0		0	
19	10/14/2014 11:28	0		0		0	
20	10/14/2014 11:29	0		0		0	
21	10/14/2014 11:30	0		0		0	
22	10/14/2014 11:31	0		0		0	
23	10/14/2014 11:32	0		0		0	
24	10/14/2014 11:33	0		0		0	
25	10/14/2014 11:34	0		0		0	
26	10/14/2014 11:35	0		0		0	
27	10/14/2014 11:36	0		0		0	
28	10/14/2014 11:37	0		0		0	
29	10/14/2014 11:38	0		0		0	
30	10/14/2014 11:39	0		0		0	
31	10/14/2014 11:40	0		0		0	
32	10/14/2014 11:41	0		0		0	
33	10/14/2014 11:42	0		0		0	
34	10/14/2014 11:43	0		0		0	
35	10/14/2014 11:44	0		0		0	
36	10/14/2014 11:45	0		0		0	
37	10/14/2014 11:46	0		0		0	
38	10/14/2014 11:47	0		0		0	
39	10/14/2014 11:48	0		0		0	
40	10/14/2014 11:49	0		0		0	
41	10/14/2014 11:50	0		0		0	
42	10/14/2014 11:51	0		0		0	
43	10/14/2014 11:52	0		0		0	
44	10/14/2014 11:53	0		0		0	
45	10/14/2014 11:54	0		0		0	
46	10/14/2014 11:55	0		0		0	
47	10/14/2014 11:56	0		0		0	
48	10/14/2014 11:57	0		0		0	
49	10/14/2014 11:58	0		0		0	
50	10/14/2014 11:59	0		0		0	
51	10/14/2014 12:00	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000014
Data Points: 318 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/14/2014 10:58

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/14/2014 10:58	0		0.5		10.5	
2	10/14/2014 10:59	0		0		0.2	
3	10/14/2014 11:00	0		0		0	
4	10/14/2014 11:01	0		0		0	
5	10/14/2014 11:02	0		0		0	
6	10/14/2014 11:03	0		0		0	
7	10/14/2014 11:04	0		0		0	
8	10/14/2014 11:05	0		0		0	
9	10/14/2014 11:06	0		0		0	
10	10/14/2014 11:07	0		0		0.1	
11	10/14/2014 11:08	0		0		0	
12	10/14/2014 11:09	0		0		0	
13	10/14/2014 11:10	0		0		0	
14	10/14/2014 11:11	0		0		0	
15	10/14/2014 11:12	0		0		0	
16	10/14/2014 11:13	0		0		0	
17	10/14/2014 11:14	0		0		0	
18	10/14/2014 11:15	0		0		0	
19	10/14/2014 11:16	0		0		0	
20	10/14/2014 11:17	0		0		0	
21	10/14/2014 11:18	0		0		0	
22	10/14/2014 11:19	0		0		0	
23	10/14/2014 11:20	0		0		0	
24	10/14/2014 11:21	0		0		0	
25	10/14/2014 11:22	0		0		0	
26	10/14/2014 11:23	0		0		0	
27	10/14/2014 11:24	0		0		0	
28	10/14/2014 11:25	0		0		0	
29	10/14/2014 11:26	0		0		0.2	
30	10/14/2014 11:27	0		0.1		2.1	
31	10/14/2014 11:28	0		0.2		1	
32	10/14/2014 11:29	0		0		0.8	
33	10/14/2014 11:30	0		0		0	
34	10/14/2014 11:31	0		0		0	
35	10/14/2014 11:32	0		0		0	
36	10/14/2014 11:33	0		0		0	
37	10/14/2014 11:34	0		0		0	
38	10/14/2014 11:35	0		0		0	
39	10/14/2014 11:36	0		0		0	
40	10/14/2014 11:37	0		0		0	
41	10/14/2014 11:38	0		0		0.1	
42	10/14/2014 11:39	0		0		0.1	
43	10/14/2014 11:40	0		0		0.2	
44	10/14/2014 11:41	0		0		0.1	
45	10/14/2014 11:42	0		0		0.2	
46	10/14/2014 11:43	0		0		0.2	
47	10/14/2014 11:44	0		0		0.5	
48	10/14/2014 11:45	0		0		0.3	
49	10/14/2014 11:46	0		0		0.1	
50	10/14/2014 11:47	0		0		0.1	
51	10/14/2014 11:48	0		0		0.3	

52	10/14/2014 12:01	0	0	0
53	10/14/2014 12:02	0	0	0
54	10/14/2014 12:03	0	0	0
55	10/14/2014 12:04	0	0	0
56	10/14/2014 12:05	0	0	0
57	10/14/2014 12:06	0	0	0
58	10/14/2014 12:07	0	0	0
59	10/14/2014 12:08	0	0	0
60	10/14/2014 12:09	0	0	0
61	10/14/2014 12:10	0	0	0
62	10/14/2014 12:11	0	0	0
63	10/14/2014 12:12	0	0	0
64	10/14/2014 12:13	0	0	0
65	10/14/2014 12:14	0	0	0
66	10/14/2014 12:15	0	0	0
67	10/14/2014 12:16	0	0	0
68	10/14/2014 12:17	0	0	0
69	10/14/2014 12:18	0	0	0
70	10/14/2014 12:19	0	0	0
71	10/14/2014 12:20	0	0	0
72	10/14/2014 12:21	0	0	0
73	10/14/2014 12:22	0	0	0
74	10/14/2014 12:23	0	0	0
75	10/14/2014 12:24	0	0	0
76	10/14/2014 12:25	0	0	0
77	10/14/2014 12:26	0	0	0
78	10/14/2014 12:27	0	0	0
79	10/14/2014 12:28	0	0	0
80	10/14/2014 12:29	0	0	0
81	10/14/2014 12:30	0	0	0
82	10/14/2014 12:31	0	0	0
83	10/14/2014 12:32	0	0	0
84	10/14/2014 12:33	0	0	0
85	10/14/2014 12:34	0	0	0
86	10/14/2014 12:35	0	0	0
87	10/14/2014 12:36	0	0	0
88	10/14/2014 12:37	0	0	0
89	10/14/2014 12:38	0	0	0
90	10/14/2014 12:39	0	0	0
91	10/14/2014 12:40	0	0	0
92	10/14/2014 12:41	0	0	0
93	10/14/2014 12:42	0	0	0
94	10/14/2014 12:43	0	0	0
95	10/14/2014 12:44	0	0	0
96	10/14/2014 12:45	0	0	0
97	10/14/2014 12:46	0	0	0
98	10/14/2014 12:47	0	0	0
99	10/14/2014 12:48	0	0	0
100	10/14/2014 12:49	0	0	0
101	10/14/2014 12:50	0	0	0
102	10/14/2014 12:51	0	0	0
103	10/14/2014 12:52	0	0	0
104	10/14/2014 12:53	0	0	0
105	10/14/2014 12:54	0	0	0
106	10/14/2014 12:55	0	0	0
107	10/14/2014 12:56	0	0	0
108	10/14/2014 12:57	0	0	0
109	10/14/2014 12:58	0	0	0
110	10/14/2014 12:59	0	0	0
111	10/14/2014 13:00	0	0	0
112	10/14/2014 13:01	0	0	0
113	10/14/2014 13:02	0	0	0
114	10/14/2014 13:03	0	0	0
115	10/14/2014 13:04	0	0	0

52	10/14/2014 11:49	0	0	0.1
53	10/14/2014 11:50	0	0	0.2
54	10/14/2014 11:51	0	0	0
55	10/14/2014 11:52	0	0	0
56	10/14/2014 11:53	0	0	0.1
57	10/14/2014 11:54	0	0	0
58	10/14/2014 11:55	0	0	0
59	10/14/2014 11:56	0	0	0
60	10/14/2014 11:57	0	0	0
61	10/14/2014 11:58	0	0	0
62	10/14/2014 11:59	0	0	0.2
63	10/14/2014 12:00	0	0	0.6
64	10/14/2014 12:01	0	0	0.2
65	10/14/2014 12:02	0	0	0
66	10/14/2014 12:03	0	0	0
67	10/14/2014 12:04	0	0	0
68	10/14/2014 12:05	0	0	0
69	10/14/2014 12:06	0	0	0
70	10/14/2014 12:07	0	0	0.1
71	10/14/2014 12:08	0	0	0.2
72	10/14/2014 12:09	0	0	0.1
73	10/14/2014 12:10	0	0	0
74	10/14/2014 12:11	0	0	0.1
75	10/14/2014 12:12	0	0	0
76	10/14/2014 12:13	0	0	0
77	10/14/2014 12:14	0	0	0
78	10/14/2014 12:15	0	0	0.2
79	10/14/2014 12:16	0	0	0.1
80	10/14/2014 12:17	0	0	0
81	10/14/2014 12:18	0	0	0
82	10/14/2014 12:19	0	0	0
83	10/14/2014 12:20	0	0	0
84	10/14/2014 12:21	0	0	0
85	10/14/2014 12:22	0	0	0
86	10/14/2014 12:23	0	0	0.3
87	10/14/2014 12:24	0	0	0
88	10/14/2014 12:25	0	0	0
89	10/14/2014 12:26	0	0	0
90	10/14/2014 12:27	0	0	0
91	10/14/2014 12:28	0	0	0.1
92	10/14/2014 12:29	0	0	0
93	10/14/2014 12:30	0	0	0
94	10/14/2014 12:31	0	0	0.1
95	10/14/2014 12:32	0	0	0.1
96	10/14/2014 12:33	0	0	0
97	10/14/2014 12:34	0	0	0
98	10/14/2014 12:35	0	0	0.1
99	10/14/2014 12:36	0	0	0
100	10/14/2014 12:37	0	0	0
101	10/14/2014 12:38	0	0	0
102	10/14/2014 12:39	0	0	0
103	10/14/2014 12:40	0	0	0
104	10/14/2014 12:41	0	0	0.1
105	10/14/2014 12:42	0	0	0.1
106	10/14/2014 12:43	0	0	0
107	10/14/2014 12:44	0	0	0
108	10/14/2014 12:45	0	0	0
109	10/14/2014 12:46	0	0	0.1
110	10/14/2014 12:47	0	0	0
111	10/14/2014 12:48	0	0	0
112	10/14/2014 12:49	0	0	0
113	10/14/2014 12:50	0	0	0
114	10/14/2014 12:51	0	0	0.1
115	10/14/2014 12:52	0	0	0.1

116	10/14/2014 13:05	0	0	0
117	10/14/2014 13:06	0	0	0
118	10/14/2014 13:07	0	0	0
119	10/14/2014 13:08	0	0	0
120	10/14/2014 13:09	0	0	0
121	10/14/2014 13:10	0	0	0
122	10/14/2014 13:11	0	0	0
123	10/14/2014 13:12	0	0	0
124	10/14/2014 13:13	0	0	0
125	10/14/2014 13:14	0	0	0
126	10/14/2014 13:15	0	0	0
127	10/14/2014 13:16	0	0	0
128	10/14/2014 13:17	0	0	0
129	10/14/2014 13:18	0	0	0
130	10/14/2014 13:19	0	0	0
131	10/14/2014 13:20	0	0	0
132	10/14/2014 13:21	0	0	0
133	10/14/2014 13:22	0	0	0
134	10/14/2014 13:23	0	0	0
135	10/14/2014 13:24	0	0	0
136	10/14/2014 13:25	0	0	0
137	10/14/2014 13:26	0	0	0
138	10/14/2014 13:27	0	0	0
139	10/14/2014 13:28	0	0	0
140	10/14/2014 13:29	0	0	0
141	10/14/2014 13:30	0	0	0
142	10/14/2014 13:31	0	0	0
143	10/14/2014 13:32	0	0	0
144	10/14/2014 13:33	0	0	0
145	10/14/2014 13:34	0	0	0
146	10/14/2014 13:35	0	0	0
147	10/14/2014 13:36	0	0	0
148	10/14/2014 13:37	0	0	0
149	10/14/2014 13:38	0	0	0
150	10/14/2014 13:39	0	0	0
151	10/14/2014 13:40	0	0	0
152	10/14/2014 13:41	0	0	0
153	10/14/2014 13:42	0	0	0
154	10/14/2014 13:43	0	0	0
155	10/14/2014 13:44	0	0	0
156	10/14/2014 13:45	0	0	0
157	10/14/2014 13:46	0	0	0
158	10/14/2014 13:47	0	0	0
159	10/14/2014 13:48	0	0	0
160	10/14/2014 13:49	0	0	0
161	10/14/2014 13:50	0	0	0
162	10/14/2014 13:51	0	0	0.2
163	10/14/2014 13:52	0	0	0.1
164	10/14/2014 13:53	0	0	0
165	10/14/2014 13:54	0	0	0
166	10/14/2014 13:55	0	0	0
167	10/14/2014 13:56	0	0	0
168	10/14/2014 13:57	0	0	0
169	10/14/2014 13:58	0	0	0
170	10/14/2014 13:59	0	0	0
171	10/14/2014 14:00	0	0	0
172	10/14/2014 14:01	0	0	0
173	10/14/2014 14:02	0	0	0
174	10/14/2014 14:03	0	0	0
175	10/14/2014 14:04	0	0	0
176	10/14/2014 14:05	0	0	0
177	10/14/2014 14:06	0	0	0
178	10/14/2014 14:07	0	0	0
179	10/14/2014 14:08	0	0	0

116	10/14/2014 12:53	0	0	0.1
117	10/14/2014 12:54	0	0	0.1
118	10/14/2014 12:55	0	0	0.2
119	10/14/2014 12:56	0	0	0.2
120	10/14/2014 12:57	0	0	0
121	10/14/2014 12:58	0	0	0
122	10/14/2014 12:59	0	0	0.2
123	10/14/2014 13:00	0	0	0.4
124	10/14/2014 13:01	0	0	0
125	10/14/2014 13:02	0	0	0.1
126	10/14/2014 13:03	0	0	0
127	10/14/2014 13:04	0	0	0.1
128	10/14/2014 13:05	0	0	0
129	10/14/2014 13:06	0	0	0
130	10/14/2014 13:07	0	0	0
131	10/14/2014 13:08	0	0	0
132	10/14/2014 13:09	0	0	0
133	10/14/2014 13:10	0	0	0.1
134	10/14/2014 13:11	0	0	0.1
135	10/14/2014 13:12	0	0	0
136	10/14/2014 13:13	0	0	0
137	10/14/2014 13:14	0	0	0
138	10/14/2014 13:15	0	0	0
139	10/14/2014 13:16	0	0	0
140	10/14/2014 13:17	0	0	0
141	10/14/2014 13:18	0	0	0.1
142	10/14/2014 13:19	0	0	0
143	10/14/2014 13:20	0	0	0
144	10/14/2014 13:21	0	0	0
145	10/14/2014 13:22	0	0	0
146	10/14/2014 13:23	0	0	0
147	10/14/2014 13:24	0	0	0
148	10/14/2014 13:25	0	0	0
149	10/14/2014 13:26	0	0	0
150	10/14/2014 13:27	0	0	0
151	10/14/2014 13:28	0	0	0
152	10/14/2014 13:29	0	0	0
153	10/14/2014 13:30	0	0	0
154	10/14/2014 13:31	0	0	0
155	10/14/2014 13:32	0	0	0
156	10/14/2014 13:33	0	0	0
157	10/14/2014 13:34	0	0	0.1
158	10/14/2014 13:35	0	0	0.1
159	10/14/2014 13:36	0	0	0
160	10/14/2014 13:37	0	0	0
161	10/14/2014 13:38	0	0	0
162	10/14/2014 13:39	0	0	0
163	10/14/2014 13:40	0	0	0
164	10/14/2014 13:41	0	0	0
165	10/14/2014 13:42	0	0	0
166	10/14/2014 13:43	0	0	0.5
167	10/14/2014 13:44	0	0	0
168	10/14/2014 13:45	0	0	0
169	10/14/2014 13:46	0	0	0
170	10/14/2014 13:47	0	0	0.1
171	10/14/2014 13:48	0	0	0
172	10/14/2014 13:49	0	0	0
173	10/14/2014 13:50	0	0	0
174	10/14/2014 13:51	0	0	0
175	10/14/2014 13:52	0	0	0
176	10/14/2014 13:53	0	0	0
177	10/14/2014 13:54	0	0	0.3
178	10/14/2014 13:55	0	0	0
179	10/14/2014 13:56	0	0	0

180	10/14/2014 14:09	0	0	0
181	10/14/2014 14:10	0	0	0
182	10/14/2014 14:11	0	0	0
183	10/14/2014 14:12	0	0	0
184	10/14/2014 14:13	0	0	0
185	10/14/2014 14:14	0	0	0
186	10/14/2014 14:15	0	0	0
187	10/14/2014 14:16	0	0	0
188	10/14/2014 14:17	0	0	0
189	10/14/2014 14:18	0	0	0
190	10/14/2014 14:19	0	0	0
191	10/14/2014 14:20	0	0	0
192	10/14/2014 14:21	0	0	0
193	10/14/2014 14:22	0	0	0
194	10/14/2014 14:23	0	0	0
195	10/14/2014 14:24	0	0	0
196	10/14/2014 14:25	0	0	0
197	10/14/2014 14:26	0	0	0
198	10/14/2014 14:27	0	0	0
199	10/14/2014 14:28	0	0	0
200	10/14/2014 14:29	0	0	0
201	10/14/2014 14:30	0	0	0
202	10/14/2014 14:31	0	0	0
203	10/14/2014 14:32	0	0	0
204	10/14/2014 14:33	0	0	0
205	10/14/2014 14:34	0	0	0
206	10/14/2014 14:35	0	0	0
207	10/14/2014 14:36	0	0	0
208	10/14/2014 14:37	0	0	0
209	10/14/2014 14:38	0	0	0
210	10/14/2014 14:39	0	0	0
211	10/14/2014 14:40	0	0	0
212	10/14/2014 14:41	0	0	0
213	10/14/2014 14:42	0	0	0
214	10/14/2014 14:43	0	0	0
215	10/14/2014 14:44	0	0	0
216	10/14/2014 14:45	0	0	0
217	10/14/2014 14:46	0	0	0
218	10/14/2014 14:47	0	0	0
219	10/14/2014 14:48	0	0	0
220	10/14/2014 14:49	0	0	0
221	10/14/2014 14:50	0	0	0
222	10/14/2014 14:51	0	0	0
223	10/14/2014 14:52	0	0	0
224	10/14/2014 14:53	0	0	0
225	10/14/2014 14:54	0	0	0
226	10/14/2014 14:55	0	0	0
227	10/14/2014 14:56	0	0	0
228	10/14/2014 14:57	0	0	0
229	10/14/2014 14:58	0	0	0
230	10/14/2014 14:59	0	0	0
231	10/14/2014 15:00	0	0	0
232	10/14/2014 15:01	0	0	0
233	10/14/2014 15:02	0	0	0
234	10/14/2014 15:03	0	0	0
235	10/14/2014 15:04	0	0	0
236	10/14/2014 15:05	0	0	0
237	10/14/2014 15:06	0	0	0
238	10/14/2014 15:07	0	0	0
239	10/14/2014 15:08	0	0	0
240	10/14/2014 15:09	0	0	0.6
241	10/14/2014 15:10	0	0	0
242	10/14/2014 15:11	0	0	0
243	10/14/2014 15:12	0	0	0

180	10/14/2014 13:57	0	0	0.1
181	10/14/2014 13:58	0	0	0
182	10/14/2014 13:59	0	0	0
183	10/14/2014 14:00	0	0	0
184	10/14/2014 14:01	0	0	0.1
185	10/14/2014 14:02	0	0	0
186	10/14/2014 14:03	0	0	0.1
187	10/14/2014 14:04	0	0	0
188	10/14/2014 14:05	0	0	0
189	10/14/2014 14:06	0	0	0
190	10/14/2014 14:07	0	0	0
191	10/14/2014 14:08	0	0	0.1
192	10/14/2014 14:09	0	0	0.2
193	10/14/2014 14:10	0	0	0
194	10/14/2014 14:11	0	0	0.3
195	10/14/2014 14:12	0	0	0.1
196	10/14/2014 14:13	0	0	0
197	10/14/2014 14:14	0	0	0.1
198	10/14/2014 14:15	0	0	0
199	10/14/2014 14:16	0	0	0
200	10/14/2014 14:17	0	0	0.1
201	10/14/2014 14:18	0	0	0.2
202	10/14/2014 14:19	0	0	0
203	10/14/2014 14:20	0	0	0.4
204	10/14/2014 14:21	0	0	0
205	10/14/2014 14:22	0	0	0.1
206	10/14/2014 14:23	0	0	0
207	10/14/2014 14:24	0	0	0
208	10/14/2014 14:25	0	0	0
209	10/14/2014 14:26	0	0	0
210	10/14/2014 14:27	0	0	0
211	10/14/2014 14:28	0	0	0.1
212	10/14/2014 14:29	0	0	0
213	10/14/2014 14:30	0	0	0
214	10/14/2014 14:31	0	0	0
215	10/14/2014 14:32	0	0	0
216	10/14/2014 14:33	0	0	0
217	10/14/2014 14:34	0	0	0
218	10/14/2014 14:35	0	0	0
219	10/14/2014 14:36	0	0	0
220	10/14/2014 14:37	0	0	0
221	10/14/2014 14:38	0	0	0
222	10/14/2014 14:39	0	0	0
223	10/14/2014 14:40	0	0	0
224	10/14/2014 14:41	0	0	0
225	10/14/2014 14:42	0	0	0
226	10/14/2014 14:43	0	0	0
227	10/14/2014 14:44	0	0	0
228	10/14/2014 14:45	0	0	0
229	10/14/2014 14:46	0	0	0
230	10/14/2014 14:47	0	0	0
231	10/14/2014 14:48	0	0	0
232	10/14/2014 14:49	0	0	0
233	10/14/2014 14:50	0	0	0
234	10/14/2014 14:51	0	0	0
235	10/14/2014 14:52	0	0	0
236	10/14/2014 14:53	0	0	0
237	10/14/2014 14:54	0	0	0
238	10/14/2014 14:55	0	0	0
239	10/14/2014 14:56	0	0	0
240	10/14/2014 14:57	0	0	0
241	10/14/2014 14:58	0	0	0
242	10/14/2014 14:59	0	0	0
243	10/14/2014 15:00	0	0	0

244	10/14/2014 15:13	0	0	0
245	10/14/2014 15:14	0	0	0
246	10/14/2014 15:15	0	0	0
247	10/14/2014 15:16	0	0	0
248	10/14/2014 15:17	0	0	0
249	10/14/2014 15:18	0	0	0
250	10/14/2014 15:19	0	0	0
251	10/14/2014 15:20	0	0	0
252	10/14/2014 15:21	0	0	0
253	10/14/2014 15:22	0	0	0
254	10/14/2014 15:23	0	0	0
255	10/14/2014 15:24	0	0	0
256	10/14/2014 15:25	0	0	0
257	10/14/2014 15:26	0	0	0
258	10/14/2014 15:27	0	0	0
259	10/14/2014 15:28	0	0	0
260	10/14/2014 15:29	0	0	0
261	10/14/2014 15:30	0	0	0
262	10/14/2014 15:31	0	0	0
263	10/14/2014 15:32	0	0	0
264	10/14/2014 15:33	0	0	0
265	10/14/2014 15:34	0	0	0
266	10/14/2014 15:35	0	0	0
267	10/14/2014 15:36	0	0	0
268	10/14/2014 15:37	0	0	0
269	10/14/2014 15:38	0	0	0
270	10/14/2014 15:39	0	0	0
271	10/14/2014 15:40	0	0	0
272	10/14/2014 15:41	0	0	0
273	10/14/2014 15:42	0	0	0
274	10/14/2014 15:43	0	0	0
275	10/14/2014 15:44	0	0	0
276	10/14/2014 15:45	0	0	0
277	10/14/2014 15:46	0	0	0
278	10/14/2014 15:47	0	0	0
279	10/14/2014 15:48	0	0	0
280	10/14/2014 15:49	0	0	0
281	10/14/2014 15:50	0	0	0
282	10/14/2014 15:51	0	0	0
283	10/14/2014 15:52	0	0	0
284	10/14/2014 15:53	0	0	0
285	10/14/2014 15:54	0	0	0
286	10/14/2014 15:55	0	0	0
287	10/14/2014 15:56	0	0	0
288	10/14/2014 15:57	0	0	0
289	10/14/2014 15:58	0	0	0
290	10/14/2014 15:59	0	0	0
291	10/14/2014 16:00	0	0	0
292	10/14/2014 16:01	0	0	0
293	10/14/2014 16:02	0	0	0
294	10/14/2014 16:03	0	0	0
295	10/14/2014 16:04	0	0	0
296	10/14/2014 16:05	0	0	0
297	10/14/2014 16:06	0	0	0
298	10/14/2014 16:07	0	0	0
299	10/14/2014 16:08	0	0	0
300	10/14/2014 16:09	0	0	0
301	10/14/2014 16:10	0	0	0
302	10/14/2014 16:11	0	0	0
303	10/14/2014 16:12	0	0	0
304	10/14/2014 16:13	0	0	0
305	10/14/2014 16:14	0	0	0
306	10/14/2014 16:15	0	0	0
307	10/14/2014 16:16	0	0	0

244	10/14/2014 15:01	0	0	0
245	10/14/2014 15:02	0	0	0
246	10/14/2014 15:03	0	0	0
247	10/14/2014 15:04	0	0	0
248	10/14/2014 15:05	0	0	0
249	10/14/2014 15:06	0	0	0
250	10/14/2014 15:07	0	0	0.1
251	10/14/2014 15:08	0	0	0
252	10/14/2014 15:09	0	0	0
253	10/14/2014 15:10	0	0	0
254	10/14/2014 15:11	0	0	0
255	10/14/2014 15:12	0	0	0
256	10/14/2014 15:13	0	0	0
257	10/14/2014 15:14	0	0	0
258	10/14/2014 15:15	0	0	0
259	10/14/2014 15:16	0	0	0
260	10/14/2014 15:17	0	0	0.1
261	10/14/2014 15:18	0	0	0
262	10/14/2014 15:19	0	0	0
263	10/14/2014 15:20	0	0	0
264	10/14/2014 15:21	0	0	0
265	10/14/2014 15:22	0	0	0
266	10/14/2014 15:23	0	0	0
267	10/14/2014 15:24	0	0	0
268	10/14/2014 15:25	0	0	0
269	10/14/2014 15:26	0	0	0
270	10/14/2014 15:27	0	0	0
271	10/14/2014 15:28	0	0	0
272	10/14/2014 15:29	0	0	0
273	10/14/2014 15:30	0	0	0
274	10/14/2014 15:31	0	0	0
275	10/14/2014 15:32	0	0	0
276	10/14/2014 15:33	0	0	0
277	10/14/2014 15:34	0	0	0
278	10/14/2014 15:35	0	0	0
279	10/14/2014 15:36	0	0	0
280	10/14/2014 15:37	0	0	0
281	10/14/2014 15:38	0	0	0
282	10/14/2014 15:39	0	0	0
283	10/14/2014 15:40	0	0	0
284	10/14/2014 15:41	0	0	0
285	10/14/2014 15:42	0	0	0
286	10/14/2014 15:43	0	0	0
287	10/14/2014 15:44	0	0	0
288	10/14/2014 15:45	0	0	0
289	10/14/2014 15:46	0	0	0
290	10/14/2014 15:47	0	0	0
291	10/14/2014 15:48	0	0	0
292	10/14/2014 15:49	0	0	0
293	10/14/2014 15:50	0	0	0
294	10/14/2014 15:51	0	0	0
295	10/14/2014 15:52	0	0	0
296	10/14/2014 15:53	0	0	0
297	10/14/2014 15:54	0	0	0
298	10/14/2014 15:55	0	0	0
299	10/14/2014 15:56	0	0	0
300	10/14/2014 15:57	0	0	0
301	10/14/2014 15:58	0	0	0
302	10/14/2014 15:59	0	0	0
303	10/14/2014 16:00	0	0	0
304	10/14/2014 16:01	0	0	0
305	10/14/2014 16:02	0	0	0
306	10/14/2014 16:03	0	0	0
307	10/14/2014 16:04	0	0	0

308	10/14/2014 16:17	0	0	0
309	10/14/2014 16:18	0	0	0
310	10/14/2014 16:19	0	0	0
311	10/14/2014 16:20	0	0	0
312	10/14/2014 16:21	0	0	0

308	10/14/2014 16:05	0	0	0
309	10/14/2014 16:06	0	0	0
310	10/14/2014 16:07	0	0	0
311	10/14/2014 16:08	0	0	0
312	10/14/2014 16:09	0	0	0
313	10/14/2014 16:10	0	0	0
314	10/14/2014 16:11	0	0	0
315	10/14/2014 16:12	0	0	0
316	10/14/2014 16:13	0	0	0
317	10/14/2014 16:14	0	0	0
318	10/14/2014 16:15	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000011
Data Points: 350 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/15/2014 10:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/15/2014 11:02	0		0		0.1	
2	10/15/2014 11:03	0		0		0.1	
3	10/15/2014 11:04	0.1		0.1		0.1	
4	10/15/2014 11:05	0.1		0.1		0.1	
5	10/15/2014 11:06	0.1		0.1		0.2	
6	10/15/2014 11:07	0.1		0.1		0.2	
7	10/15/2014 11:08	0.1		0.1		0.2	
8	10/15/2014 11:09	0.1		0.1		0.2	
9	10/15/2014 11:10	0.1		0.1		0.2	
10	10/15/2014 11:11	0.1		0.1		0.2	
11	10/15/2014 11:12	0.1		0.1		0.2	
12	10/15/2014 11:13	0.2		0.2		0.2	
13	10/15/2014 11:14	0.2		0.2		0.2	
14	10/15/2014 11:15	0.2		0.2		0.2	
15	10/15/2014 11:16	0.2		0.2		0.3	
16	10/15/2014 11:17	0.2		0.2		0.3	
17	10/15/2014 11:18	0.2		0.2		0.2	
18	10/15/2014 11:19	0.2		0.2		0.3	
19	10/15/2014 11:20	0.2		0.2		0.3	
20	10/15/2014 11:21	0.2		0.2		0.3	
21	10/15/2014 11:22	0.2		0.2		0.3	
22	10/15/2014 11:23	0.2		0.2		0.3	
23	10/15/2014 11:24	0.2		0.2		0.3	
24	10/15/2014 11:25	0.2		0.2		0.3	
25	10/15/2014 11:26	0.2		0.2		0.3	
26	10/15/2014 11:27	0.2		0.2		0.3	
27	10/15/2014 11:28	0.2		0.2		0.3	
28	10/15/2014 11:29	0.2		0.2		0.3	
29	10/15/2014 11:30	0.2		0.2		0.3	
30	10/15/2014 11:31	0.2		0.2		0.3	
31	10/15/2014 11:32	0.2		0.2		0.3	
32	10/15/2014 11:33	0.2		0.2		0.3	
33	10/15/2014 11:34	0.2		0.2		0.3	
34	10/15/2014 11:35	0.3		0.3		0.3	
35	10/15/2014 11:36	0.3		0.3		0.3	
36	10/15/2014 11:37	0.2		0.2		0.3	
37	10/15/2014 11:38	0.3		0.3		0.3	
38	10/15/2014 11:39	0.3		0.3		0.3	
39	10/15/2014 11:40	0.3		0.3		0.3	
40	10/15/2014 11:41	0.2		0.2		0.3	
41	10/15/2014 11:42	0.2		0.2		0.3	
42	10/15/2014 11:43	0.3		0.3		0.3	
43	10/15/2014 11:44	0.3		0.3		0.3	
44	10/15/2014 11:45	0.3		0.3		0.4	
45	10/15/2014 11:46	0.3		0.3		0.4	
46	10/15/2014 11:47	0.3		0.3		0.3	
47	10/15/2014 11:48	0.3		0.3		0.3	
48	10/15/2014 11:49	0.3		0.3		0.3	
49	10/15/2014 11:50	0.3		0.3		0.3	
50	10/15/2014 11:51	0.3		0.3		0.3	
51	10/15/2014 11:52	0.3		0.3		0.3	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000016
Data Points: 328 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/15/2014 10:25

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/15/2014 11:01	0		0		0	
2	10/15/2014 11:02	0		0		0	
3	10/15/2014 11:03	0		0		0	
4	10/15/2014 11:04	0		0		0	
5	10/15/2014 11:05	0		0		0	
6	10/15/2014 11:06	0		0		0	
7	10/15/2014 11:07	0		0		0	
8	10/15/2014 11:08	0		0		0	
9	10/15/2014 11:09	0		0		0	
10	10/15/2014 11:10	0		0		0	
11	10/15/2014 11:11	0		0		0	
12	10/15/2014 11:12	0		0		0	
13	10/15/2014 11:13	0		0		0	
14	10/15/2014 11:14	0		0		0	
15	10/15/2014 11:15	0		0		0	
16	10/15/2014 11:16	0		0		0	
17	10/15/2014 11:17	0		0		0.1	
18	10/15/2014 11:18	0		0		0	
19	10/15/2014 11:19	0		0		0	
20	10/15/2014 11:20	0		0		0	
21	10/15/2014 11:21	0		0		0	
22	10/15/2014 11:22	0		0		0	
23	10/15/2014 11:23	0		0		0	
24	10/15/2014 11:24	0		0		0	
25	10/15/2014 11:25	0		0		0	
26	10/15/2014 11:26	0		0		0	
27	10/15/2014 11:27	0		0		0	
28	10/15/2014 11:28	0		0		0	
29	10/15/2014 11:29	0		0		0	
30	10/15/2014 11:30	0		0		0	
31	10/15/2014 11:31	0		0		0	
32	10/15/2014 11:32	0		0		0.1	
33	10/15/2014 11:33	0		0		0.1	
34	10/15/2014 11:34	0		0		0.1	
35	10/15/2014 11:35	0		0		0	
36	10/15/2014 11:36	0		0		0.1	
37	10/15/2014 11:37	0		0		0.1	
38	10/15/2014 11:38	0		0		0	
39	10/15/2014 11:39	0		0		0	
40	10/15/2014 11:40	0		0		0	
41	10/15/2014 11:41	0		0		0.1	
42	10/15/2014 11:42	0		0		0.1	
43	10/15/2014 11:43	0		0		0.1	
44	10/15/2014 11:44	0		0		0.1	
45	10/15/2014 11:45	0		0		0	
46	10/15/2014 11:46	0		0		0	
47	10/15/2014 11:47	0		0		0.1	
48	10/15/2014 11:48	0		0		0.1	
49	10/15/2014 11:49	0		0		0.1	
50	10/15/2014 11:50	0		0		0.1	
51	10/15/2014 11:51	0		0		0.1	

52	10/15/2014 11:53	0.3	0.3	0.3
53	10/15/2014 11:54	0.3	0.3	0.3
54	10/15/2014 11:55	0.3	0.3	0.3
55	10/15/2014 11:56	0.3	0.3	0.3
56	10/15/2014 11:57	0.3	0.3	0.3
57	10/15/2014 11:58	0.3	0.3	0.3
58	10/15/2014 11:59	0.3	0.3	0.3
59	10/15/2014 12:00	0.2	0.2	0.3
60	10/15/2014 12:01	0.2	0.2	0.3
61	10/15/2014 12:02	0.3	0.3	0.3
62	10/15/2014 12:03	0.3	0.3	0.3
63	10/15/2014 12:04	0.2	0.2	0.3
64	10/15/2014 12:05	0.2	0.2	0.3
65	10/15/2014 12:06	0.2	0.2	0.3
66	10/15/2014 12:07	0.2	0.2	0.3
67	10/15/2014 12:08	0.2	0.2	0.3
68	10/15/2014 12:09	0.2	0.2	0.3
69	10/15/2014 12:10	0.2	0.2	0.3
70	10/15/2014 12:11	0.2	0.2	0.3
71	10/15/2014 12:12	0.2	0.2	0.3
72	10/15/2014 12:13	0.2	0.2	0.3
73	10/15/2014 12:14	0.2	0.2	0.3
74	10/15/2014 12:15	0.2	0.2	0.3
75	10/15/2014 12:16	0.2	0.2	0.3
76	10/15/2014 12:17	0.2	0.2	0.3
77	10/15/2014 12:18	0.2	0.2	0.3
78	10/15/2014 12:19	0.2	0.2	0.3
79	10/15/2014 12:20	0.2	0.2	0.3
80	10/15/2014 12:21	0.2	0.2	0.3
81	10/15/2014 12:22	0.2	0.2	0.3
82	10/15/2014 12:23	0.2	0.2	0.3
83	10/15/2014 12:24	0.2	0.2	0.3
84	10/15/2014 12:25	0.2	0.2	0.3
85	10/15/2014 12:26	0.2	0.2	0.2
86	10/15/2014 12:27	0.2	0.2	0.2
87	10/15/2014 12:28	0.2	0.2	0.2
88	10/15/2014 12:29	0.2	0.2	0.2
89	10/15/2014 12:30	0.2	0.2	0.2
90	10/15/2014 12:31	0.2	0.2	0.2
91	10/15/2014 12:32	0.2	0.2	0.2
92	10/15/2014 12:33	0.2	0.2	0.2
93	10/15/2014 12:34	0.2	0.2	0.2
94	10/15/2014 12:35	0.2	0.2	0.2
95	10/15/2014 12:36	0.2	0.2	0.2
96	10/15/2014 12:37	0.2	0.2	0.2
97	10/15/2014 12:38	0.2	0.2	0.2
98	10/15/2014 12:39	0.2	0.2	0.2
99	10/15/2014 12:40	0.2	0.2	0.2
100	10/15/2014 12:41	0.2	0.2	0.2
101	10/15/2014 12:42	0.2	0.2	0.2
102	10/15/2014 12:43	0.2	0.2	0.2
103	10/15/2014 12:44	0.2	0.2	0.2
104	10/15/2014 12:45	0.2	0.2	0.2
105	10/15/2014 12:46	0.2	0.2	0.2
106	10/15/2014 12:47	0.2	0.2	0.2
107	10/15/2014 12:48	0.2	0.2	0.2
108	10/15/2014 12:49	0.2	0.2	0.2
109	10/15/2014 12:50	0.2	0.2	0.2
110	10/15/2014 12:51	0.2	0.2	0.2
111	10/15/2014 12:52	0.2	0.2	0.2
112	10/15/2014 12:53	0.1	0.1	0.2
113	10/15/2014 12:54	0.2	0.2	0.2
114	10/15/2014 12:55	0.2	0.2	0.2
115	10/15/2014 12:56	0.2	0.2	0.2

52	10/15/2014 11:52	0	0	0.1
53	10/15/2014 11:53	0	0	0.1
54	10/15/2014 11:54	0	0	0
55	10/15/2014 11:55	0	0	0.1
56	10/15/2014 11:56	0	0	0.1
57	10/15/2014 11:57	0	0	0.1
58	10/15/2014 11:58	0	0	0.1
59	10/15/2014 11:59	0	0	0.1
60	10/15/2014 12:00	0	0	0.1
61	10/15/2014 12:01	0	0	0.1
62	10/15/2014 12:02	0	0	0.1
63	10/15/2014 12:03	0	0	0.1
64	10/15/2014 12:04	0	0	0.1
65	10/15/2014 12:05	0	0	0
66	10/15/2014 12:06	0	0	0.1
67	10/15/2014 12:07	0	0	0.1
68	10/15/2014 12:08	0	0	0.1
69	10/15/2014 12:09	0	0	0.1
70	10/15/2014 12:10	0	0	0.1
71	10/15/2014 12:11	0	0	0.1
72	10/15/2014 12:12	0	0	0.1
73	10/15/2014 12:13	0	0	0.1
74	10/15/2014 12:14	0	0	0.1
75	10/15/2014 12:15	0	0	0.1
76	10/15/2014 12:16	0	0	0.1
77	10/15/2014 12:17	0	0	0.1
78	10/15/2014 12:18	0	0	0.1
79	10/15/2014 12:19	0	0	0.1
80	10/15/2014 12:20	0	0	0.1
81	10/15/2014 12:21	0	0	0.1
82	10/15/2014 12:22	0	0	0.1
83	10/15/2014 12:23	0	0	0
84	10/15/2014 12:24	0	0	0
85	10/15/2014 12:25	0	0	0.1
86	10/15/2014 12:26	0	0	0.1
87	10/15/2014 12:27	0	0	0.1
88	10/15/2014 12:28	0	0	0.1
89	10/15/2014 12:29	0	0	0.1
90	10/15/2014 12:30	0	0	0
91	10/15/2014 12:31	0	0	0
92	10/15/2014 12:32	0	0	0
93	10/15/2014 12:33	0	0	0
94	10/15/2014 12:34	0	0	0.1
95	10/15/2014 12:35	0	0	0
96	10/15/2014 12:36	0	0	0
97	10/15/2014 12:37	0	0	0.1
98	10/15/2014 12:38	0	0	0
99	10/15/2014 12:39	0	0	0.1
100	10/15/2014 12:40	0	0	0
101	10/15/2014 12:41	0	0	0
102	10/15/2014 12:42	0	0	0
103	10/15/2014 12:43	0	0	0
104	10/15/2014 12:44	0	0	0.1
105	10/15/2014 12:45	0	0	0.1
106	10/15/2014 12:46	0	0	0
107	10/15/2014 12:47	0	0	0
108	10/15/2014 12:48	0	0	0
109	10/15/2014 12:49	0	0	0
110	10/15/2014 12:50	0	0	0
111	10/15/2014 12:51	0	0	0
112	10/15/2014 12:52	0	0	0
113	10/15/2014 12:53	0	0	0
114	10/15/2014 12:54	0	0	0
115	10/15/2014 12:55	0	0	0.1

116	10/15/2014 12:57	0.2	0.2	0.2
117	10/15/2014 12:58	0.2	0.2	0.2
118	10/15/2014 12:59	0.1	0.1	0.2
119	10/15/2014 13:00	0.1	0.1	0.2
120	10/15/2014 13:01	0.1	0.1	0.2
121	10/15/2014 13:02	0.1	0.1	0.2
122	10/15/2014 13:03	0.2	0.2	0.2
123	10/15/2014 13:04	0.1	0.1	0.2
124	10/15/2014 13:05	0.1	0.1	0.2
125	10/15/2014 13:06	0.1	0.1	0.2
126	10/15/2014 13:07	0.1	0.1	0.2
127	10/15/2014 13:08	0.1	0.1	0.2
128	10/15/2014 13:09	0.1	0.1	0.2
129	10/15/2014 13:10	0.2	0.2	0.2
130	10/15/2014 13:11	0.1	0.1	0.2
131	10/15/2014 13:12	0.1	0.1	0.2
132	10/15/2014 13:13	0.1	0.1	0.2
133	10/15/2014 13:14	0.1	0.1	0.2
134	10/15/2014 13:15	0.1	0.1	0.2
135	10/15/2014 13:16	0.1	0.1	0.2
136	10/15/2014 13:17	0.1	0.1	0.2
137	10/15/2014 13:18	0.1	0.1	0.2
138	10/15/2014 13:19	0.1	0.1	0.2
139	10/15/2014 13:20	0.1	0.1	0.2
140	10/15/2014 13:21	0.1	0.1	0.2
141	10/15/2014 13:22	0.1	0.1	0.2
142	10/15/2014 13:23	0.1	0.1	0.2
143	10/15/2014 13:24	0.1	0.1	0.2
144	10/15/2014 13:25	0.1	0.1	0.2
145	10/15/2014 13:26	0.1	0.1	0.2
146	10/15/2014 13:27	0.1	0.1	0.2
147	10/15/2014 13:28	0.1	0.1	0.2
148	10/15/2014 13:29	0.1	0.1	0.2
149	10/15/2014 13:30	0.1	0.1	0.2
150	10/15/2014 13:31	0.1	0.1	0.2
151	10/15/2014 13:32	0.1	0.1	0.2
152	10/15/2014 13:33	0.1	0.1	0.2
153	10/15/2014 13:34	0.1	0.1	0.2
154	10/15/2014 13:35	0.1	0.1	0.2
155	10/15/2014 13:36	0.1	0.1	0.2
156	10/15/2014 13:37	0.1	0.1	0.2
157	10/15/2014 13:38	0.1	0.1	0.2
158	10/15/2014 13:39	0.1	0.1	0.2
159	10/15/2014 13:40	0.1	0.1	0.2
160	10/15/2014 13:41	0.1	0.1	0.2
161	10/15/2014 13:42	0.1	0.1	0.2
162	10/15/2014 13:43	0.1	0.1	0.2
163	10/15/2014 13:44	0.1	0.1	0.2
164	10/15/2014 13:45	0.1	0.1	0.2
165	10/15/2014 13:46	0.1	0.1	0.2
166	10/15/2014 13:47	0.1	0.1	0.2
167	10/15/2014 13:48	0.1	0.1	0.2
168	10/15/2014 13:49	0.1	0.1	0.2
169	10/15/2014 13:50	0.1	0.1	0.1
170	10/15/2014 13:51	0.1	0.1	0.1
171	10/15/2014 13:52	0.1	0.1	0.1
172	10/15/2014 13:53	0.1	0.1	0.2
173	10/15/2014 13:54	0.1	0.1	0.2
174	10/15/2014 13:55	0.1	0.1	0.2
175	10/15/2014 13:56	0.1	0.1	0.1
176	10/15/2014 13:57	0.1	0.1	0.1
177	10/15/2014 13:58	0.1	0.1	0.1
178	10/15/2014 13:59	0.1	0.1	0.1
179	10/15/2014 14:00	0.1	0.1	0.1

116	10/15/2014 12:56	0	0	0
117	10/15/2014 12:57	0	0	0
118	10/15/2014 12:58	0	0	0
119	10/15/2014 12:59	0	0	0
120	10/15/2014 13:00	0	0	0.1
121	10/15/2014 13:01	0	0	0
122	10/15/2014 13:02	0	0	0
123	10/15/2014 13:03	0	0	0
124	10/15/2014 13:04	0	0	0
125	10/15/2014 13:05	0	0	0
126	10/15/2014 13:06	0	0	0
127	10/15/2014 13:07	0	0	0
128	10/15/2014 13:08	0	0	0
129	10/15/2014 13:09	0	0	0.1
130	10/15/2014 13:10	0	0	0
131	10/15/2014 13:11	0	0	0
132	10/15/2014 13:12	0	0	0
133	10/15/2014 13:13	0	0	0
134	10/15/2014 13:14	0	0	0
135	10/15/2014 13:15	0	0	0.1
136	10/15/2014 13:16	0	0	0
137	10/15/2014 13:17	0	0	0
138	10/15/2014 13:18	0	0	0
139	10/15/2014 13:19	0	0	0
140	10/15/2014 13:20	0	0	0
141	10/15/2014 13:21	0	0	0
142	10/15/2014 13:22	0	0	0
143	10/15/2014 13:23	0	0	0
144	10/15/2014 13:24	0	0	0
145	10/15/2014 13:25	0	0	0
146	10/15/2014 13:26	0	0	0
147	10/15/2014 13:27	0	0	0
148	10/15/2014 13:28	0	0	0
149	10/15/2014 13:29	0	0	0
150	10/15/2014 13:30	0	0	0
151	10/15/2014 13:31	0	0	0
152	10/15/2014 13:32	0	0	0
153	10/15/2014 13:33	0	0	0
154	10/15/2014 13:34	0	0	0
155	10/15/2014 13:35	0	0	0
156	10/15/2014 13:36	0	0	0
157	10/15/2014 13:37	0	0	0
158	10/15/2014 13:38	0	0	0
159	10/15/2014 13:39	0	0	0
160	10/15/2014 13:40	0	0	0
161	10/15/2014 13:41	0	0	0
162	10/15/2014 13:42	0	0	0
163	10/15/2014 13:43	0	0	0
164	10/15/2014 13:44	0	0	0
165	10/15/2014 13:45	0	0	0
166	10/15/2014 13:46	0	0	0
167	10/15/2014 13:47	0	0	0
168	10/15/2014 13:48	0	0	0
169	10/15/2014 13:49	0	0	0.1
170	10/15/2014 13:50	0	0	0
171	10/15/2014 13:51	0	0	0
172	10/15/2014 13:52	0	0	0
173	10/15/2014 13:53	0	0	0
174	10/15/2014 13:54	0	0	0
175	10/15/2014 13:55	0	0	0
176	10/15/2014 13:56	0	0	0
177	10/15/2014 13:57	0	0	0
178	10/15/2014 13:58	0	0	0
179	10/15/2014 13:59	0	0	0

180	10/15/2014 14:01	0.1	0.1	0.1
181	10/15/2014 14:02	0.1	0.1	0.1
182	10/15/2014 14:03	0.1	0.1	0.1
183	10/15/2014 14:04	0.1	0.1	0.1
184	10/15/2014 14:05	0.1	0.1	0.1
185	10/15/2014 14:06	0.1	0.1	0.1
186	10/15/2014 14:07	0.1	0.1	0.1
187	10/15/2014 14:08	0.1	0.1	0.1
188	10/15/2014 14:09	0.1	0.1	0.1
189	10/15/2014 14:10	0.1	0.1	0.1
190	10/15/2014 14:11	0.1	0.1	0.1
191	10/15/2014 14:12	0.1	0.1	0.1
192	10/15/2014 14:13	0.1	0.1	0.1
193	10/15/2014 14:14	0.1	0.1	0.1
194	10/15/2014 14:15	0.1	0.1	0.1
195	10/15/2014 14:16	0.1	0.1	0.1
196	10/15/2014 14:17	0.1	0.1	0.1
197	10/15/2014 14:18	0.1	0.1	0.1
198	10/15/2014 14:19	0.1	0.1	0.1
199	10/15/2014 14:20	0.1	0.1	0.1
200	10/15/2014 14:21	0.1	0.1	0.1
201	10/15/2014 14:22	0.1	0.1	0.1
202	10/15/2014 14:23	0.1	0.1	0.1
203	10/15/2014 14:24	0.1	0.1	0.1
204	10/15/2014 14:25	0.1	0.1	0.1
205	10/15/2014 14:26	0.1	0.1	0.1
206	10/15/2014 14:27	0.1	0.1	0.1
207	10/15/2014 14:28	0.1	0.1	0.1
208	10/15/2014 14:29	0.1	0.1	0.1
209	10/15/2014 14:30	0.1	0.1	0.1
210	10/15/2014 14:31	0.1	0.1	0.1
211	10/15/2014 14:32	0.1	0.1	0.1
212	10/15/2014 14:33	0.1	0.1	0.1
213	10/15/2014 14:34	0.1	0.1	0.1
214	10/15/2014 14:35	0.1	0.1	0.1
215	10/15/2014 14:36	0.1	0.1	0.1
216	10/15/2014 14:37	0.1	0.1	0.1
217	10/15/2014 14:38	0.1	0.1	0.1
218	10/15/2014 14:39	0	0	0.1
219	10/15/2014 14:40	0	0	0.1
220	10/15/2014 14:41	0	0	0.1
221	10/15/2014 14:42	0	0	0.1
222	10/15/2014 14:43	0	0	0.1
223	10/15/2014 14:44	0	0	0.1
224	10/15/2014 14:45	0.1	0.1	0.1
225	10/15/2014 14:46	0	0	0.1
226	10/15/2014 14:47	0	0	0.1
227	10/15/2014 14:48	0	0	0.1
228	10/15/2014 14:49	0	0	0.1
229	10/15/2014 14:50	0	0	0.1
230	10/15/2014 14:51	0.1	0.1	0.1
231	10/15/2014 14:52	0.1	0.1	0.1
232	10/15/2014 14:53	0	0	0.1
233	10/15/2014 14:54	0	0	0.1
234	10/15/2014 14:55	0	0	0.1
235	10/15/2014 14:56	0	0	0.1
236	10/15/2014 14:57	0	0	0.1
237	10/15/2014 14:58	0	0	0.1
238	10/15/2014 14:59	0	0	0.1
239	10/15/2014 15:00	0.1	0.1	0.1
240	10/15/2014 15:01	0	0	0.1
241	10/15/2014 15:02	0	0	0.1
242	10/15/2014 15:03	0	0	0.1
243	10/15/2014 15:04	0	0	0.1

180	10/15/2014 14:00	0	0	0
181	10/15/2014 14:01	0	0	0
182	10/15/2014 14:02	0	0	0
183	10/15/2014 14:03	0	0	0
184	10/15/2014 14:04	0	0	0
185	10/15/2014 14:05	0	0	0
186	10/15/2014 14:06	0	0	0
187	10/15/2014 14:07	0	0	0
188	10/15/2014 14:08	0	0	0
189	10/15/2014 14:09	0	0	0
190	10/15/2014 14:10	0	0	0
191	10/15/2014 14:11	0	0	0
192	10/15/2014 14:12	0	0	0
193	10/15/2014 14:13	0	0	0.1
194	10/15/2014 14:14	0	0	0.1
195	10/15/2014 14:15	0	0	0.1
196	10/15/2014 14:16	0	0	0
197	10/15/2014 14:17	0	0	0
198	10/15/2014 14:18	0	0	0.1
199	10/15/2014 14:19	0	0	0.1
200	10/15/2014 14:20	0	0	0.1
201	10/15/2014 14:21	0	0	0
202	10/15/2014 14:22	0	0	0
203	10/15/2014 14:23	0	0	0
204	10/15/2014 14:24	0	0	0
205	10/15/2014 14:25	0	0	0
206	10/15/2014 14:26	0	0	0
207	10/15/2014 14:27	0	0	0
208	10/15/2014 14:28	0	0	0
209	10/15/2014 14:29	0	0	0.1
210	10/15/2014 14:30	0	0	0.1
211	10/15/2014 14:31	0	0	0
212	10/15/2014 14:32	0	0	0
213	10/15/2014 14:33	0	0	0
214	10/15/2014 14:34	0	0	0.1
215	10/15/2014 14:35	0	0	0
216	10/15/2014 14:36	0	0	0
217	10/15/2014 14:37	0	0	0
218	10/15/2014 14:38	0	0	0
219	10/15/2014 14:39	0	0	0
220	10/15/2014 14:40	0	0	0
221	10/15/2014 14:41	0	0	0
222	10/15/2014 14:42	0	0	0
223	10/15/2014 14:43	0	0	0
224	10/15/2014 14:44	0	0	0
225	10/15/2014 14:45	0	0	0
226	10/15/2014 14:46	0	0	0
227	10/15/2014 14:47	0	0	0
228	10/15/2014 14:48	0	0	0
229	10/15/2014 14:49	0	0	0
230	10/15/2014 14:50	0	0	0
231	10/15/2014 14:51	0	0	0
232	10/15/2014 14:52	0	0	0
233	10/15/2014 14:53	0	0	0
234	10/15/2014 14:54	0	0	0
235	10/15/2014 14:55	0	0	0
236	10/15/2014 14:56	0	0	0
237	10/15/2014 14:57	0	0	0
238	10/15/2014 14:58	0	0	0
239	10/15/2014 14:59	0	0	0
240	10/15/2014 15:00	0	0	0
241	10/15/2014 15:01	0	0	0
242	10/15/2014 15:02	0	0	0
243	10/15/2014 15:03	0	0	0

244	10/15/2014 15:05	0	0	0.1
245	10/15/2014 15:06	0	0	0.1
246	10/15/2014 15:07	0	0	0.1
247	10/15/2014 15:08	0	0	0.1
248	10/15/2014 15:09	0	0	0.1
249	10/15/2014 15:10	0	0	0.1
250	10/15/2014 15:11	0	0	0.1
251	10/15/2014 15:12	0	0	0.1
252	10/15/2014 15:13	0	0	0.1
253	10/15/2014 15:14	0	0	0.1
254	10/15/2014 15:15	0	0	0.1
255	10/15/2014 15:16	0	0	0.1
256	10/15/2014 15:17	0	0	0.1
257	10/15/2014 15:18	0	0	0.1
258	10/15/2014 15:19	0	0	0.1
259	10/15/2014 15:20	0	0	0.1
260	10/15/2014 15:21	0	0	0.1
261	10/15/2014 15:22	0	0	0.1
262	10/15/2014 15:23	0	0	0.1
263	10/15/2014 15:24	0	0	0.1
264	10/15/2014 15:25	0	0	0.1
265	10/15/2014 15:26	0	0	0.1
266	10/15/2014 15:27	0	0	0.1
267	10/15/2014 15:28	0	0	0.1
268	10/15/2014 15:29	0	0	0.1
269	10/15/2014 15:30	0	0	0.1
270	10/15/2014 15:31	0	0	0.1
271	10/15/2014 15:32	0	0	0.2
272	10/15/2014 15:33	0	0.2	0.4
273	10/15/2014 15:34	0	0	0.2
274	10/15/2014 15:35	0	0	0
275	10/15/2014 15:36	0	0	0.3
276	10/15/2014 15:37	0	0.1	0.3
277	10/15/2014 15:38	0	0	0.1
278	10/15/2014 15:39	0.1	0.3	0.6
279	10/15/2014 15:40	0	0	0.1
280	10/15/2014 15:41	0	0	0.1
281	10/15/2014 15:42	0	0	0.2
282	10/15/2014 15:43	0	0	0.1
283	10/15/2014 15:44	0	0	0.1
284	10/15/2014 15:45	0	0	0.2
285	10/15/2014 15:46	0	0	0.1
286	10/15/2014 15:47	0	0	0.2
287	10/15/2014 15:48	0	0	0
288	10/15/2014 15:49	0	0.2	0.4
289	10/15/2014 15:50	0	0	0.3
290	10/15/2014 15:51	0	0	0.3
291	10/15/2014 15:52	0	0.1	0.3
292	10/15/2014 15:53	0	0	0.2
293	10/15/2014 15:54	0	0	0.1
294	10/15/2014 15:55	0	0	0.1
295	10/15/2014 15:56	0	0	0.2
296	10/15/2014 15:57	0	0	0.4
297	10/15/2014 15:58	0	0	0.1
298	10/15/2014 15:59	0	0	0
299	10/15/2014 16:00	0	0	0
300	10/15/2014 16:01	0	0	0.1
301	10/15/2014 16:02	0	0	0
302	10/15/2014 16:03	0	0	0
303	10/15/2014 16:04	0	0	0
304	10/15/2014 16:05	0	0	0.1
305	10/15/2014 16:06	0	0	0.1
306	10/15/2014 16:07	0	0	0.1
307	10/15/2014 16:08	0	0	0.1

244	10/15/2014 15:04	0	0	0
245	10/15/2014 15:05	0	0	0
246	10/15/2014 15:06	0	0	0
247	10/15/2014 15:07	0	0	0
248	10/15/2014 15:08	0	0	0
249	10/15/2014 15:09	0	0	0
250	10/15/2014 15:10	0	0	0
251	10/15/2014 15:11	0	0	0
252	10/15/2014 15:12	0	0	0
253	10/15/2014 15:13	0	0	0
254	10/15/2014 15:14	0	0	0
255	10/15/2014 15:15	0	0	0
256	10/15/2014 15:16	0	0	0
257	10/15/2014 15:17	0	0	0
258	10/15/2014 15:18	0	0	0
259	10/15/2014 15:19	0	0	0
260	10/15/2014 15:20	0	0	0
261	10/15/2014 15:21	0	0	0
262	10/15/2014 15:22	0	0	0
263	10/15/2014 15:23	0	0	0
264	10/15/2014 15:24	0	0	0
265	10/15/2014 15:25	0	0	0
266	10/15/2014 15:26	0	0	0
267	10/15/2014 15:27	0	0	0
268	10/15/2014 15:28	0	0	0
269	10/15/2014 15:29	0	0	0
270	10/15/2014 15:30	0	0	0
271	10/15/2014 15:31	0	0	0
272	10/15/2014 15:32	0	0	0
273	10/15/2014 15:33	0	0	0
274	10/15/2014 15:34	0	0	0
275	10/15/2014 15:35	0	0	0
276	10/15/2014 15:36	0	0	0
277	10/15/2014 15:37	0	0	0
278	10/15/2014 15:38	0	0	0
279	10/15/2014 15:39	0	0	0
280	10/15/2014 15:40	0	0	0
281	10/15/2014 15:41	0	0	0
282	10/15/2014 15:42	0	0	0
283	10/15/2014 15:43	0	0	0
284	10/15/2014 15:44	0	0	0
285	10/15/2014 15:45	0	0	0
286	10/15/2014 15:46	0	0	0
287	10/15/2014 15:47	0	0	0
288	10/15/2014 15:48	0	0	0
289	10/15/2014 15:49	0	0	0
290	10/15/2014 15:50	0	0	0
291	10/15/2014 15:51	0	0	0
292	10/15/2014 15:52	0	0	0
293	10/15/2014 15:53	0	0	0
294	10/15/2014 15:54	0	0	0
295	10/15/2014 15:55	0	0	0
296	10/15/2014 15:56	0	0	0
297	10/15/2014 15:57	0	0	0
298	10/15/2014 15:58	0	0	0
299	10/15/2014 15:59	0	0	0
300	10/15/2014 16:00	0	0	0
301	10/15/2014 16:01	0	0	0
302	10/15/2014 16:02	0	0	0
303	10/15/2014 16:03	0	0	0
304	10/15/2014 16:04	0	0	0
305	10/15/2014 16:05	0	0	0
306	10/15/2014 16:06	0	0	0
307	10/15/2014 16:07	0	0	0

308	10/15/2014 16:09	0	0	0.1
309	10/15/2014 16:10	0	0	0.1
310	10/15/2014 16:11	0	0	0.1
311	10/15/2014 16:12	0	0	0
312	10/15/2014 16:13	0	0	0.1
313	10/15/2014 16:14	0	0	0.1
314	10/15/2014 16:15	0	0	0.1
315	10/15/2014 16:16	0	0	0.1
316	10/15/2014 16:17	0	0	0.1
317	10/15/2014 16:18	0	0	0.1
318	10/15/2014 16:19	0	0	0.1
319	10/15/2014 16:20	0	0	0.1
320	10/15/2014 16:21	0	0	0.1
321	10/15/2014 16:22	0	0	0
322	10/15/2014 16:23	0	0	0
323	10/15/2014 16:24	0	0	0
324	10/15/2014 16:25	0	0	0
325	10/15/2014 16:26	0	0	0
326	10/15/2014 16:27	0	0	0
327	10/15/2014 16:28	0	0	0.1
328	10/15/2014 16:29	0	0	0.1
329	10/15/2014 16:30	0	0	0.1
330	10/15/2014 16:31	0	0	0.1
331	10/15/2014 16:32	0	0	0.1
332	10/15/2014 16:33	0	0	0.1
333	10/15/2014 16:34	0	0	0.1
334	10/15/2014 16:35	0	0	0.2
335	10/15/2014 16:36	0.1	0.1	0.1
336	10/15/2014 16:37	0.1	0.1	0.2
337	10/15/2014 16:38	0.1	0.1	0.2
338	10/15/2014 16:39	0.1	0.1	0.2
339	10/15/2014 16:40	0.1	0.1	0.2
340	10/15/2014 16:41	0.1	0.1	0.2
341	10/15/2014 16:42	0.1	0.1	0.2
342	10/15/2014 16:43	0.2	0.2	0.2
343	10/15/2014 16:44	0.1	0.1	0.2
344	10/15/2014 16:45	0.1	0.1	0.2
345	10/15/2014 16:46	0.1	0.1	0.2
346	10/15/2014 16:47	0.2	0.2	0.2
347	10/15/2014 16:48	0.2	0.2	0.2
348	10/15/2014 16:49	0.2	0.2	0.3
349	10/15/2014 16:50	0.2	0.2	0.3
350	10/15/2014 16:51	0.1	0.2	0.3

308	10/15/2014 16:08	0	0	0
309	10/15/2014 16:09	0	0	0
310	10/15/2014 16:10	0	0	0.1
311	10/15/2014 16:11	0	0	0
312	10/15/2014 16:12	0	0	0
313	10/15/2014 16:13	0	0	0
314	10/15/2014 16:14	0	0	0
315	10/15/2014 16:15	0	0	0
316	10/15/2014 16:16	0	0	0
317	10/15/2014 16:17	0	0	0
318	10/15/2014 16:18	0	0	0
319	10/15/2014 16:19	0	0	0
320	10/15/2014 16:20	0	0	0
321	10/15/2014 16:21	0	0	0
322	10/15/2014 16:22	0	0	0
323	10/15/2014 16:23	0	0	0
324	10/15/2014 16:24	0	0	0
325	10/15/2014 16:25	0	0	0
326	10/15/2014 16:26	0	0	0
327	10/15/2014 16:27	0	0	0
328	10/15/2014 16:28	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000013
Data Points: 332 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/17/2014 10:43

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/17/2014 11:03	0		0		0	
2	10/17/2014 11:04	0		0		0	
3	10/17/2014 11:05	0		0		0	
4	10/17/2014 11:06	0		0		0	
5	10/17/2014 11:07	0		0		0	
6	10/17/2014 11:08	0		0		0	
7	10/17/2014 11:09	0		0		0	
8	10/17/2014 11:10	0		0		0	
9	10/17/2014 11:11	0		0		0	
10	10/17/2014 11:12	0		0		0	
11	10/17/2014 11:13	0		0		0	
12	10/17/2014 11:14	0		0		0	
13	10/17/2014 11:15	0		0		0	
14	10/17/2014 11:16	0		0		0	
15	10/17/2014 11:17	0		0		0	
16	10/17/2014 11:18	0		0		0	
17	10/17/2014 11:19	0		0		0	
18	10/17/2014 11:20	0		0		0	
19	10/17/2014 11:21	0		0		0	
20	10/17/2014 11:22	0		0		0	
21	10/17/2014 11:23	0		0		0	
22	10/17/2014 11:24	0		0		0	
23	10/17/2014 11:25	0		0		0	
24	10/17/2014 11:26	0		0		0	
25	10/17/2014 11:27	0		0		0	
26	10/17/2014 11:28	0		0		0	
27	10/17/2014 11:29	0		0		0	
28	10/17/2014 11:30	0		0		0	
29	10/17/2014 11:31	0		0		0	
30	10/17/2014 11:32	0		0		0	
31	10/17/2014 11:33	0		0		0	
32	10/17/2014 11:34	0		0		0	
33	10/17/2014 11:35	0		0		0	
34	10/17/2014 11:36	0		0		0	
35	10/17/2014 11:37	0		0		0	
36	10/17/2014 11:38	0		0		0	
37	10/17/2014 11:39	0		0		0	
38	10/17/2014 11:40	0		0		0	
39	10/17/2014 11:41	0		0		0	
40	10/17/2014 11:42	0		0		0	
41	10/17/2014 11:43	0		0		0	
42	10/17/2014 11:44	0		0		0	
43	10/17/2014 11:45	0		0		0	
44	10/17/2014 11:46	0		0		0	
45	10/17/2014 11:47	0		0		0	
46	10/17/2014 11:48	0		0		0	
47	10/17/2014 11:49	0		0		0	
48	10/17/2014 11:50	0		0		0	
49	10/17/2014 11:51	0		0		0	
50	10/17/2014 11:52	0		0		0	
51	10/17/2014 11:53	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000018
Data Points: 333 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/17/2014 10:26

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/17/2014 11:03	0		0		0	
2	10/17/2014 11:04	0		0		0	
3	10/17/2014 11:05	0		0		0	
4	10/17/2014 11:06	0		0		0	
5	10/17/2014 11:07	0		0		0	
6	10/17/2014 11:08	0		0		0	
7	10/17/2014 11:09	0		0		0	
8	10/17/2014 11:10	0		0		0	
9	10/17/2014 11:11	0		0		0	
10	10/17/2014 11:12	0		0		0	
11	10/17/2014 11:13	0		0		0	
12	10/17/2014 11:14	0		0		0	
13	10/17/2014 11:15	0		0		0	
14	10/17/2014 11:16	0		0		0	
15	10/17/2014 11:17	0		0		0	
16	10/17/2014 11:18	0		0		0	
17	10/17/2014 11:19	0		0		0	
18	10/17/2014 11:20	0		0		0	
19	10/17/2014 11:21	0		0		0	
20	10/17/2014 11:22	0		0		0	
21	10/17/2014 11:23	0		0		0	
22	10/17/2014 11:24	0		0		0	
23	10/17/2014 11:25	0		0		0	
24	10/17/2014 11:26	0		0		0	
25	10/17/2014 11:27	0		0		0	
26	10/17/2014 11:28	0		0		0	
27	10/17/2014 11:29	0		0		0	
28	10/17/2014 11:30	0		0		0.1	
29	10/17/2014 11:31	0		0		0	
30	10/17/2014 11:32	0		0		0	
31	10/17/2014 11:33	0		0		0	
32	10/17/2014 11:34	0		0		0	
33	10/17/2014 11:35	0		0		0	
34	10/17/2014 11:36	0		0		0	
35	10/17/2014 11:37	0		0		0	
36	10/17/2014 11:38	0		0		0	
37	10/17/2014 11:39	0		0		0	
38	10/17/2014 11:40	0		0		0	
39	10/17/2014 11:41	0		0		0	
40	10/17/2014 11:42	0		0		0	
41	10/17/2014 11:43	0		0		0	
42	10/17/2014 11:44	0		0		0	
43	10/17/2014 11:45	0		0		0	
44	10/17/2014 11:46	0		0		0	
45	10/17/2014 11:47	0		0		0	
46	10/17/2014 11:48	0		0		0	
47	10/17/2014 11:49	0		0		0	
48	10/17/2014 11:50	0		0		0	
49	10/17/2014 11:51	0		0		0	
50	10/17/2014 11:52	0		0		0	
51	10/17/2014 11:53	0		0		0	

52	10/17/2014 11:54	0	0	0
53	10/17/2014 11:55	0	0	0
54	10/17/2014 11:56	0	0	0
55	10/17/2014 11:57	0	0	0
56	10/17/2014 11:58	0	0	0
57	10/17/2014 11:59	0	0	0
58	10/17/2014 12:00	0	0	0
59	10/17/2014 12:01	0	0	0
60	10/17/2014 12:02	0	0	0
61	10/17/2014 12:03	0	0	0
62	10/17/2014 12:04	0	0	0
63	10/17/2014 12:05	0	0	0
64	10/17/2014 12:06	0	0	0
65	10/17/2014 12:07	0	0	0
66	10/17/2014 12:08	0	0	0
67	10/17/2014 12:09	0	0	0
68	10/17/2014 12:10	0	0	0
69	10/17/2014 12:11	0	0	0
70	10/17/2014 12:12	0	0	0
71	10/17/2014 12:13	0	0	0
72	10/17/2014 12:14	0	0	0
73	10/17/2014 12:15	0	0	0
74	10/17/2014 12:16	0	0	0
75	10/17/2014 12:17	0	0	0
76	10/17/2014 12:18	0	0	0
77	10/17/2014 12:19	0	0	0
78	10/17/2014 12:20	0	0	0
79	10/17/2014 12:21	0	0	0
80	10/17/2014 12:22	0	0	0
81	10/17/2014 12:23	0	0	0
82	10/17/2014 12:24	0	0	0
83	10/17/2014 12:25	0	0	0
84	10/17/2014 12:26	0	0	0
85	10/17/2014 12:27	0	0	0
86	10/17/2014 12:28	0	0	0
87	10/17/2014 12:29	0	0	0
88	10/17/2014 12:30	0	0	0
89	10/17/2014 12:31	0	0	0
90	10/17/2014 12:32	0	0	0
91	10/17/2014 12:33	0	0	0
92	10/17/2014 12:34	0	0	0
93	10/17/2014 12:35	0	0	0
94	10/17/2014 12:36	0	0	0
95	10/17/2014 12:37	0	0	0
96	10/17/2014 12:38	0	0	0
97	10/17/2014 12:39	0	0	0
98	10/17/2014 12:40	0	0	0
99	10/17/2014 12:41	0	0	0
100	10/17/2014 12:42	0	0	0
101	10/17/2014 12:43	0	0	0
102	10/17/2014 12:44	0	0	0
103	10/17/2014 12:45	0	0	0
104	10/17/2014 12:46	0	0	0
105	10/17/2014 12:47	0	0	0
106	10/17/2014 12:48	0	0	0
107	10/17/2014 12:49	0	0	0
108	10/17/2014 12:50	0	0	0
109	10/17/2014 12:51	0	0	0
110	10/17/2014 12:52	0	0	0
111	10/17/2014 12:53	0	0	0
112	10/17/2014 12:54	0	0	0
113	10/17/2014 12:55	0	0	0
114	10/17/2014 12:56	0	0	0
115	10/17/2014 12:57	0	0	0

52	10/17/2014 11:54	0	0	0
53	10/17/2014 11:55	0	0	0
54	10/17/2014 11:56	0	0	0
55	10/17/2014 11:57	0	0	0.1
56	10/17/2014 11:58	0	0	0.1
57	10/17/2014 11:59	0	0	0.1
58	10/17/2014 12:00	0	0	0.1
59	10/17/2014 12:01	0	0	0.1
60	10/17/2014 12:02	0	0	0
61	10/17/2014 12:03	0	0	0
62	10/17/2014 12:04	0	0	0.1
63	10/17/2014 12:05	0	0	0.1
64	10/17/2014 12:06	0	0	0.1
65	10/17/2014 12:07	0	0	0.1
66	10/17/2014 12:08	0	0	0.1
67	10/17/2014 12:09	0	0	0.1
68	10/17/2014 12:10	0	0	0.1
69	10/17/2014 12:11	0	0	0.1
70	10/17/2014 12:12	0	0	0.1
71	10/17/2014 12:13	0	0	0.1
72	10/17/2014 12:14	0	0	0.1
73	10/17/2014 12:15	0	0	0.1
74	10/17/2014 12:16	0	0	0.1
75	10/17/2014 12:17	0	0	0.1
76	10/17/2014 12:18	0	0	0.1
77	10/17/2014 12:19	0	0	0.1
78	10/17/2014 12:20	0	0	0.1
79	10/17/2014 12:21	0	0	0.1
80	10/17/2014 12:22	0	0	0.1
81	10/17/2014 12:23	0	0	0.1
82	10/17/2014 12:24	0	0	0.1
83	10/17/2014 12:25	0	0	0
84	10/17/2014 12:26	0	0	0
85	10/17/2014 12:27	0	0	0.1
86	10/17/2014 12:28	0	0	0.1
87	10/17/2014 12:29	0	0	0.1
88	10/17/2014 12:30	0	0	0.1
89	10/17/2014 12:31	0	0	0.1
90	10/17/2014 12:32	0.1	0.1	0.1
91	10/17/2014 12:33	0	0	0.1
92	10/17/2014 12:34	0	0	0.1
93	10/17/2014 12:35	0	0	0.1
94	10/17/2014 12:36	0	0	0.1
95	10/17/2014 12:37	0	0	0.1
96	10/17/2014 12:38	0	0	0.1
97	10/17/2014 12:39	0	0	0.1
98	10/17/2014 12:40	0	0	0.1
99	10/17/2014 12:41	0	0	0.1
100	10/17/2014 12:42	0	0	0.1
101	10/17/2014 12:43	0.1	0.1	0.1
102	10/17/2014 12:44	0.1	0.1	0.1
103	10/17/2014 12:45	0	0	0.1
104	10/17/2014 12:46	0.1	0.1	0.1
105	10/17/2014 12:47	0.1	0.1	0.1
106	10/17/2014 12:48	0	0	0.1
107	10/17/2014 12:49	0	0	0.1
108	10/17/2014 12:50	0	0	0.1
109	10/17/2014 12:51	0	0	0.1
110	10/17/2014 12:52	0	0	0.1
111	10/17/2014 12:53	0	0	0.1
112	10/17/2014 12:54	0	0	0.1
113	10/17/2014 12:55	0	0	0.1
114	10/17/2014 12:56	0	0	0.1
115	10/17/2014 12:57	0	0	0.1

116	10/17/2014 12:58	0	0	0
117	10/17/2014 12:59	0	0	0
118	10/17/2014 13:00	0	0	0
119	10/17/2014 13:01	0	0	0
120	10/17/2014 13:02	0	0	0
121	10/17/2014 13:03	0	0	0
122	10/17/2014 13:04	0	0	0
123	10/17/2014 13:05	0	0	0
124	10/17/2014 13:06	0	0	0
125	10/17/2014 13:07	0	0	0
126	10/17/2014 13:08	0	0	0
127	10/17/2014 13:09	0	0	0
128	10/17/2014 13:10	0	0	0
129	10/17/2014 13:11	0	0	0
130	10/17/2014 13:12	0	0	0
131	10/17/2014 13:13	0	0	0
132	10/17/2014 13:14	0	0	0
133	10/17/2014 13:15	0	0	0
134	10/17/2014 13:16	0	0	0
135	10/17/2014 13:17	0	0	0
136	10/17/2014 13:18	0	0	0
137	10/17/2014 13:19	0	0	0
138	10/17/2014 13:20	0	0	0
139	10/17/2014 13:21	0	0	0
140	10/17/2014 13:22	0	0	0
141	10/17/2014 13:23	0	0	0
142	10/17/2014 13:24	0	0	0
143	10/17/2014 13:25	0	0	0
144	10/17/2014 13:26	0	0	0
145	10/17/2014 13:27	0	0	0
146	10/17/2014 13:28	0	0	0
147	10/17/2014 13:29	0	0	0
148	10/17/2014 13:30	0	0	0
149	10/17/2014 13:31	0	0	0
150	10/17/2014 13:32	0	0	0
151	10/17/2014 13:33	0	0	0
152	10/17/2014 13:34	0	0	0
153	10/17/2014 13:35	0	0	0
154	10/17/2014 13:36	0	0	0
155	10/17/2014 13:37	0	0	0
156	10/17/2014 13:38	0	0	0
157	10/17/2014 13:39	0	0	0
158	10/17/2014 13:40	0	0	0
159	10/17/2014 13:41	0	0	0
160	10/17/2014 13:42	0	0	0
161	10/17/2014 13:43	0	0	0
162	10/17/2014 13:44	0	0	0
163	10/17/2014 13:45	0	0	0
164	10/17/2014 13:46	0	0	0
165	10/17/2014 13:47	0	0	0
166	10/17/2014 13:48	0	0	0
167	10/17/2014 13:49	0	0	0
168	10/17/2014 13:50	0	0	0
169	10/17/2014 13:51	0	0	0
170	10/17/2014 13:52	0	0	0
171	10/17/2014 13:53	0	0	0
172	10/17/2014 13:54	0	0	0
173	10/17/2014 13:55	0	0	0
174	10/17/2014 13:56	0	0	0
175	10/17/2014 13:57	0	0	0
176	10/17/2014 13:58	0	0	0
177	10/17/2014 13:59	0	0	0
178	10/17/2014 14:00	0	0	0
179	10/17/2014 14:01	0	0	0

116	10/17/2014 12:58	0	0	0.1
117	10/17/2014 12:59	0	0	0.1
118	10/17/2014 13:00	0.1	0.1	0.1
119	10/17/2014 13:01	0	0	0.1
120	10/17/2014 13:02	0	0	0.1
121	10/17/2014 13:03	0.1	0.1	0.1
122	10/17/2014 13:04	0.1	0.1	0.1
123	10/17/2014 13:05	0	0	0.1
124	10/17/2014 13:06	0	0	0.1
125	10/17/2014 13:07	0	0	0.1
126	10/17/2014 13:08	0	0	0.1
127	10/17/2014 13:09	0	0	0.1
128	10/17/2014 13:10	0	0	0.1
129	10/17/2014 13:11	0	0	0.1
130	10/17/2014 13:12	0	0	0.1
131	10/17/2014 13:13	0	0	0.1
132	10/17/2014 13:14	0.1	0.1	0.1
133	10/17/2014 13:15	0.1	0.1	0.1
134	10/17/2014 13:16	0.1	0.1	0.1
135	10/17/2014 13:17	0.1	0.1	0.1
136	10/17/2014 13:18	0.1	0.1	0.1
137	10/17/2014 13:19	0.1	0.1	0.1
138	10/17/2014 13:20	0.1	0.1	0.1
139	10/17/2014 13:21	0.1	0.1	0.1
140	10/17/2014 13:22	0.1	0.1	0.1
141	10/17/2014 13:23	0.1	0.1	0.1
142	10/17/2014 13:24	0.1	0.1	0.1
143	10/17/2014 13:25	0.1	0.1	0.1
144	10/17/2014 13:26	0	0	0.1
145	10/17/2014 13:27	0.1	0.1	0.1
146	10/17/2014 13:28	0.1	0.1	0.1
147	10/17/2014 13:29	0.1	0.1	0.1
148	10/17/2014 13:30	0.1	0.1	0.1
149	10/17/2014 13:31	0	0	0.1
150	10/17/2014 13:32	0	0	0.1
151	10/17/2014 13:33	0	0	0.1
152	10/17/2014 13:34	0	0	0.1
153	10/17/2014 13:35	0.1	0.1	0.1
154	10/17/2014 13:36	0.1	0.1	0.1
155	10/17/2014 13:37	0.1	0.1	0.1
156	10/17/2014 13:38	0.1	0.1	0.1
157	10/17/2014 13:39	0.1	0.1	0.1
158	10/17/2014 13:40	0.1	0.1	0.1
159	10/17/2014 13:41	0.1	0.1	0.1
160	10/17/2014 13:42	0.1	0.1	0.1
161	10/17/2014 13:43	0.1	0.1	0.1
162	10/17/2014 13:44	0.1	0.1	0.1
163	10/17/2014 13:45	0.1	0.1	0.1
164	10/17/2014 13:46	0.1	0.1	0.1
165	10/17/2014 13:47	0.1	0.1	0.1
166	10/17/2014 13:48	0.1	0.1	0.1
167	10/17/2014 13:49	0.1	0.1	0.1
168	10/17/2014 13:50	0.1	0.1	0.1
169	10/17/2014 13:51	0.1	0.1	0.1
170	10/17/2014 13:52	0.1	0.1	0.1
171	10/17/2014 13:53	0.1	0.1	0.1
172	10/17/2014 13:54	0.1	0.1	0.1
173	10/17/2014 13:55	0.1	0.1	0.1
174	10/17/2014 13:56	0.1	0.1	0.1
175	10/17/2014 13:57	0.1	0.1	0.1
176	10/17/2014 13:58	0.1	0.1	0.1
177	10/17/2014 13:59	0.1	0.1	0.1
178	10/17/2014 14:00	0.1	0.1	0.1
179	10/17/2014 14:01	0.1	0.1	0.1

180	10/17/2014 14:02	0	0	0	180	10/17/2014 14:02	0.1	0.1	0.1
181	10/17/2014 14:03	0	0	0	181	10/17/2014 14:03	0.1	0.1	0.1
182	10/17/2014 14:04	0	0	0	182	10/17/2014 14:04	0.1	0.1	0.1
183	10/17/2014 14:05	0	0	0	183	10/17/2014 14:05	0.1	0.1	0.2
184	10/17/2014 14:06	0	0	0	184	10/17/2014 14:06	0.1	0.1	0.1
185	10/17/2014 14:07	0	0	0	185	10/17/2014 14:07	0.1	0.1	0.1
186	10/17/2014 14:08	0	0	0	186	10/17/2014 14:08	0.1	0.1	0.1
187	10/17/2014 14:09	0	0	0	187	10/17/2014 14:09	0.1	0.1	0.1
188	10/17/2014 14:10	0	0	0	188	10/17/2014 14:10	0.1	0.1	0.2
189	10/17/2014 14:11	0	0	0	189	10/17/2014 14:11	0.1	0.1	0.2
190	10/17/2014 14:12	0	0	0	190	10/17/2014 14:12	0.1	0.1	0.2
191	10/17/2014 14:13	0	0	0	191	10/17/2014 14:13	0.1	0.1	0.2
192	10/17/2014 14:14	0	0	0	192	10/17/2014 14:14	0.1	0.1	0.1
193	10/17/2014 14:15	0	0	0	193	10/17/2014 14:15	0.1	0.1	0.1
194	10/17/2014 14:16	0	0	0	194	10/17/2014 14:16	0.1	0.1	0.2
195	10/17/2014 14:17	0	0	0	195	10/17/2014 14:17	0.1	0.1	0.2
196	10/17/2014 14:18	0	0	0	196	10/17/2014 14:18	0.1	0.1	0.2
197	10/17/2014 14:19	0	0	0	197	10/17/2014 14:19	0.1	0.1	0.2
198	10/17/2014 14:20	0	0	0	198	10/17/2014 14:20	0.1	0.1	0.2
199	10/17/2014 14:21	0	0	0	199	10/17/2014 14:21	0.1	0.1	0.1
200	10/17/2014 14:22	0	0	0	200	10/17/2014 14:22	0.1	0.1	0.2
201	10/17/2014 14:23	0	0	0	201	10/17/2014 14:23	0.1	0.1	0.2
202	10/17/2014 14:24	0	0	0	202	10/17/2014 14:24	0.1	0.1	0.1
203	10/17/2014 14:25	0	0	0	203	10/17/2014 14:25	0.1	0.1	0.1
204	10/17/2014 14:26	0	0	0	204	10/17/2014 14:26	0.1	0.1	0.1
205	10/17/2014 14:27	0	0	0	205	10/17/2014 14:27	0.1	0.1	0.2
206	10/17/2014 14:28	0	0	0	206	10/17/2014 14:28	0.1	0.1	0.1
207	10/17/2014 14:29	0	0	0	207	10/17/2014 14:29	0.1	0.1	0.1
208	10/17/2014 14:30	0	0	0	208	10/17/2014 14:30	0.1	0.1	0.1
209	10/17/2014 14:31	0	0	0	209	10/17/2014 14:31	0.1	0.1	0.1
210	10/17/2014 14:32	0	0	0	210	10/17/2014 14:32	0.1	0.1	0.1
211	10/17/2014 14:33	0	0	0	211	10/17/2014 14:33	0.1	0.1	0.1
212	10/17/2014 14:34	0	0	0	212	10/17/2014 14:34	0.1	0.1	0.1
213	10/17/2014 14:35	0	0	0	213	10/17/2014 14:35	0.1	0.1	0.1
214	10/17/2014 14:36	0	0	0	214	10/17/2014 14:36	0.1	0.1	0.1
215	10/17/2014 14:37	0	0	0	215	10/17/2014 14:37	0.1	0.1	0.1
216	10/17/2014 14:38	0	0	0	216	10/17/2014 14:38	0.1	0.1	0.1
217	10/17/2014 14:39	0	0	0	217	10/17/2014 14:39	0.1	0.1	0.1
218	10/17/2014 14:40	0	0	0	218	10/17/2014 14:40	0.1	0.1	0.1
219	10/17/2014 14:41	0	0	0	219	10/17/2014 14:41	0.1	0.1	0.1
220	10/17/2014 14:42	0	0	0	220	10/17/2014 14:42	0.1	0.1	0.1
221	10/17/2014 14:43	0	0	0	221	10/17/2014 14:43	0.1	0.1	0.1
222	10/17/2014 14:44	0	0	0	222	10/17/2014 14:44	0.1	0.1	0.1
223	10/17/2014 14:45	0	0	0	223	10/17/2014 14:45	0.1	0.1	0.1
224	10/17/2014 14:46	0	0	0	224	10/17/2014 14:46	0.1	0.1	0.1
225	10/17/2014 14:47	0	0	0	225	10/17/2014 14:47	0.1	0.1	0.1
226	10/17/2014 14:48	0	0	0	226	10/17/2014 14:48	0.1	0.1	0.1
227	10/17/2014 14:49	0	0	0	227	10/17/2014 14:49	0.1	0.1	0.1
228	10/17/2014 14:50	0	0	0	228	10/17/2014 14:50	0.1	0.1	0.1
229	10/17/2014 14:51	0	0	0	229	10/17/2014 14:51	0.1	0.1	0.1
230	10/17/2014 14:52	0	0	0	230	10/17/2014 14:52	0	0	0.1
231	10/17/2014 14:53	0	0	0	231	10/17/2014 14:53	0	0	0.1
232	10/17/2014 14:54	0	0	0	232	10/17/2014 14:54	0	0	0.1
233	10/17/2014 14:55	0	0	0	233	10/17/2014 14:55	0	0	0.1
234	10/17/2014 14:56	0	0	0	234	10/17/2014 14:56	0	0	0.1
235	10/17/2014 14:57	0	0	0	235	10/17/2014 14:57	0	0	0.1
236	10/17/2014 14:58	0	0	0	236	10/17/2014 14:58	0	0	0.1
237	10/17/2014 14:59	0	0	0	237	10/17/2014 14:59	0	0	0.1
238	10/17/2014 15:00	0	0	0	238	10/17/2014 15:00	0	0	0.1
239	10/17/2014 15:01	0	0	0	239	10/17/2014 15:01	0	0	0.1
240	10/17/2014 15:02	0	0	0	240	10/17/2014 15:02	0	0	0.1
241	10/17/2014 15:03	0	0	0	241	10/17/2014 15:03	0	0	0.1
242	10/17/2014 15:04	0	0	0	242	10/17/2014 15:04	0	0	0.1
243	10/17/2014 15:05	0	0	0	243	10/17/2014 15:05	0	0	0.1

244	10/17/2014 15:06	0	0	0	244	10/17/2014 15:06	0	0	0.1
245	10/17/2014 15:07	0	0	0	245	10/17/2014 15:07	0	0	0.1
246	10/17/2014 15:08	0	0	0	246	10/17/2014 15:08	0	0	0.1
247	10/17/2014 15:09	0	0	0	247	10/17/2014 15:09	0	0	0.1
248	10/17/2014 15:10	0	0	0	248	10/17/2014 15:10	0	0	0.1
249	10/17/2014 15:11	0	0	0	249	10/17/2014 15:11	0	0	0.1
250	10/17/2014 15:12	0	0	0	250	10/17/2014 15:12	0	0	0.1
251	10/17/2014 15:13	0	0	0	251	10/17/2014 15:13	0	0	0.1
252	10/17/2014 15:14	0	0	0	252	10/17/2014 15:14	0	0	0.1
253	10/17/2014 15:15	0	0	0	253	10/17/2014 15:15	0	0	0.1
254	10/17/2014 15:16	0	0	0	254	10/17/2014 15:16	0	0	0.1
255	10/17/2014 15:17	0	0	0	255	10/17/2014 15:17	0	0	0.1
256	10/17/2014 15:18	0	0	0	256	10/17/2014 15:18	0	0	0.1
257	10/17/2014 15:19	0	0	0	257	10/17/2014 15:19	0	0	0.1
258	10/17/2014 15:20	0	0	0	258	10/17/2014 15:20	0	0	0.1
259	10/17/2014 15:21	0	0	0	259	10/17/2014 15:21	0	0	0.1
260	10/17/2014 15:22	0	0	0	260	10/17/2014 15:22	0	0	0.1
261	10/17/2014 15:23	0	0	0	261	10/17/2014 15:23	0	0	0.1
262	10/17/2014 15:24	0	0	0	262	10/17/2014 15:24	0	0	0.1
263	10/17/2014 15:25	0	0	0	263	10/17/2014 15:25	0	0	0.1
264	10/17/2014 15:26	0	0	0	264	10/17/2014 15:26	0	0	0.1
265	10/17/2014 15:27	0	0	0	265	10/17/2014 15:27	0	0	0.1
266	10/17/2014 15:28	0	0	0	266	10/17/2014 15:28	0	0	0
267	10/17/2014 15:29	0	0	0	267	10/17/2014 15:29	0	0	0.1
268	10/17/2014 15:30	0	0	0	268	10/17/2014 15:30	0	0	0
269	10/17/2014 15:31	0	0	0	269	10/17/2014 15:31	0	0	0
270	10/17/2014 15:32	0	0	0	270	10/17/2014 15:32	0	0	0
271	10/17/2014 15:33	0	0	0	271	10/17/2014 15:33	0	0	0
272	10/17/2014 15:34	0	0	0	272	10/17/2014 15:34	0	0	0
273	10/17/2014 15:35	0	0	0	273	10/17/2014 15:35	0	0	0
274	10/17/2014 15:36	0	0	0	274	10/17/2014 15:36	0	0	0
275	10/17/2014 15:37	0	0	0	275	10/17/2014 15:37	0	0	0
276	10/17/2014 15:38	0	0	0	276	10/17/2014 15:38	0	0	0
277	10/17/2014 15:39	0	0	0	277	10/17/2014 15:39	0	0	0
278	10/17/2014 15:40	0	0	0	278	10/17/2014 15:40	0	0	0
279	10/17/2014 15:41	0	0	0	279	10/17/2014 15:41	0	0	0
280	10/17/2014 15:42	0	0	0	280	10/17/2014 15:42	0	0	0
281	10/17/2014 15:43	0	0	0	281	10/17/2014 15:43	0	0	0
282	10/17/2014 15:44	0	0	0	282	10/17/2014 15:44	0	0	0
283	10/17/2014 15:45	0	0	0	283	10/17/2014 15:45	0	0	0
284	10/17/2014 15:46	0	0	0	284	10/17/2014 15:46	0	0	0
285	10/17/2014 15:47	0	0	0	285	10/17/2014 15:47	0	0	0
286	10/17/2014 15:48	0	0	0	286	10/17/2014 15:48	0	0	0
287	10/17/2014 15:49	0	0	0	287	10/17/2014 15:49	0	0	0
288	10/17/2014 15:50	0	0	0	288	10/17/2014 15:50	0	0	0
289	10/17/2014 15:51	0	0	0	289	10/17/2014 15:51	0	0	0
290	10/17/2014 15:52	0	0	0	290	10/17/2014 15:52	0	0	0
291	10/17/2014 15:53	0	0	0	291	10/17/2014 15:53	0	0	0
292	10/17/2014 15:54	0	0	0	292	10/17/2014 15:54	0	0	0
293	10/17/2014 15:55	0	0	0	293	10/17/2014 15:55	0	0	0
294	10/17/2014 15:56	0	0	0	294	10/17/2014 15:56	0	0	0
295	10/17/2014 15:57	0	0	0	295	10/17/2014 15:57	0	0	0
296	10/17/2014 15:58	0	0	0	296	10/17/2014 15:58	0	0	0
297	10/17/2014 15:59	0	0	0	297	10/17/2014 15:59	0	0	0
298	10/17/2014 16:00	0	0	0	298	10/17/2014 16:00	0	0	0
299	10/17/2014 16:01	0	0	0	299	10/17/2014 16:01	0	0	0
300	10/17/2014 16:02	0	0	0	300	10/17/2014 16:02	0	0	0
301	10/17/2014 16:03	0	0	0	301	10/17/2014 16:03	0	0	0
302	10/17/2014 16:04	0	0	0	302	10/17/2014 16:04	0	0	0
303	10/17/2014 16:05	0	0	0	303	10/17/2014 16:05	0	0	0
304	10/17/2014 16:06	0	0	0	304	10/17/2014 16:06	0	0	0
305	10/17/2014 16:07	0	0	0	305	10/17/2014 16:07	0	0	0
306	10/17/2014 16:08	0	0	0	306	10/17/2014 16:08	0	0	0
307	10/17/2014 16:09	0	0	0	307	10/17/2014 16:09	0	0	0

308	10/17/2014 16:10	0	0	0
309	10/17/2014 16:11	0	0	0
310	10/17/2014 16:12	0	0	0
311	10/17/2014 16:13	0	0	0
312	10/17/2014 16:14	0	0	0
313	10/17/2014 16:15	0	0	0
314	10/17/2014 16:16	0	0	0
315	10/17/2014 16:17	0	0	0
316	10/17/2014 16:18	0	0	0
317	10/17/2014 16:19	0	0	0
318	10/17/2014 16:20	0	0	0
319	10/17/2014 16:21	0	0	0
320	10/17/2014 16:22	0	0	0
321	10/17/2014 16:23	0	0	0
322	10/17/2014 16:24	0	0	0
323	10/17/2014 16:25	0	0	0
324	10/17/2014 16:26	0	0	0
325	10/17/2014 16:27	0	0	0
326	10/17/2014 16:28	0	0	0
327	10/17/2014 16:29	0	0	0
328	10/17/2014 16:30	0	0	0
329	10/17/2014 16:31	0	0	0
330	10/17/2014 16:32	0	0	0
331	10/17/2014 16:33	0	0	0
332	10/17/2014 16:34	0	0	0

308	10/17/2014 16:10	0	0	0
309	10/17/2014 16:11	0	0	0
310	10/17/2014 16:12	0	0	0
311	10/17/2014 16:13	0	0	0
312	10/17/2014 16:14	0	0	0
313	10/17/2014 16:15	0	0	0
314	10/17/2014 16:16	0	0	0
315	10/17/2014 16:17	0	0	0
316	10/17/2014 16:18	0	0	0
317	10/17/2014 16:19	0	0	0
318	10/17/2014 16:20	0	0	0
319	10/17/2014 16:21	0	0	0
320	10/17/2014 16:22	0	0	0
321	10/17/2014 16:23	0	0	0
322	10/17/2014 16:24	0	0	0
323	10/17/2014 16:25	0	0	0
324	10/17/2014 16:26	0	0	0
325	10/17/2014 16:27	0	0	0
326	10/17/2014 16:28	0	0	0
327	10/17/2014 16:29	0	0	0
328	10/17/2014 16:30	0	0	0
329	10/17/2014 16:31	0	0	0
330	10/17/2014 16:32	0	0	0
331	10/17/2014 16:33	0	0	0
332	10/17/2014 16:34	0	0	0
333	10/17/2014 16:35	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000017
Data Points: 315 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/20/2014 10:42

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	########		0		0		0	
2	########		0		0		0	
3	########		0		0		0	
4	########		0		0		0	
5	########		0		0		0.3	
6	########		0		0		0	
7	########		0		0		0	
8	########		0		0		0	
9	########		0		0		0	
10	########		0		0		0	
11	########		0		0		0	
12	########		0		0		0	
13	########		0		0		0	
14	########		0		0		0	
15	########		0		0		0	
16	########		0		0		0	
17	########		0		0		0	
18	########		0		0		0	
19	########		0		0		0	
20	########		0		0		0	
21	########		0		0		0	
22	########		0		0		0	
23	########		0		0		0	
24	########		0		0		0	
25	########		0		0		0	
26	########		0		0		0	
27	########		0		0		0	
28	########		0		0		0	
29	########		0		0		0.1	
30	########		0		0		0.1	
31	########		0		0		0.1	
32	########		0		0		0.1	
33	########		0		0		0.1	
34	########		0		0		0.1	
35	########		0		0		0.1	
36	########		0		0		0.1	
37	########		0		0		0.1	
38	########		0		0		0.1	
39	########		0		0		0.1	
40	########		0		0		0.1	
41	########		0		0		0.1	
42	########		0		0		0.1	
43	########		0		0		0.1	
44	########		0		0		0.1	
45	########		0		0		0.1	
46	########		0		0		0.1	
47	########		0		0		0.1	
48	########		0		0		0.1	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000019
Data Points: 313 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/20/2014 10:38

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/20/2014	11:04	0		0		0	
2	10/20/2014	11:05	0		0		0	
3	10/20/2014	11:06	0		0		0	
4	10/20/2014	11:07	0		0		0	
5	10/20/2014	11:08	0		0		0	
6	10/20/2014	11:09	0		0		0	
7	10/20/2014	11:10	0		0		0	
8	10/20/2014	11:11	0		0		0	
9	10/20/2014	11:12	0		0		0	
10	10/20/2014	11:13	0		0		0	
11	10/20/2014	11:14	0		0		0	
12	10/20/2014	11:15	0		0		0	
13	10/20/2014	11:16	0		0		0	
14	10/20/2014	11:17	0		0		0	
15	10/20/2014	11:18	0		0		0	
16	10/20/2014	11:19	0		0		0	
17	10/20/2014	11:20	0		0		0	
18	10/20/2014	11:21	0		0		0	
19	10/20/2014	11:22	0		0		0	
20	10/20/2014	11:23	0		0		0	
21	10/20/2014	11:24	0		0		0	
22	10/20/2014	11:25	0		0		0	
23	10/20/2014	11:26	0		0		0	
24	10/20/2014	11:27	0		0		0	
25	10/20/2014	11:28	0		0		0	
26	10/20/2014	11:29	0		0		0	
27	10/20/2014	11:30	0		0		0	
28	10/20/2014	11:31	0		0		0	
29	10/20/2014	11:32	0		0		0	
30	10/20/2014	11:33	0		0		0	
31	10/20/2014	11:34	0		0		0	
32	10/20/2014	11:35	0		0		0	
33	10/20/2014	11:36	0		0		0	
34	10/20/2014	11:37	0		0		0.1	
35	10/20/2014	11:38	0		0		0.3	
36	10/20/2014	11:39	0		0.2		2	
37	10/20/2014	11:40	0		0		0.1	
38	10/20/2014	11:41	0		0		0	
39	10/20/2014	11:42	0		0		0	
40	10/20/2014	11:43	0		0		0.1	
41	10/20/2014	11:44	0		0		0.2	
42	10/20/2014	11:45	0		0		0	
43	10/20/2014	11:46	0		0		0.1	
44	10/20/2014	11:47	0		0		0	
45	10/20/2014	11:48	0		0		0.9	
46	10/20/2014	11:49	0		0		0.1	
47	10/20/2014	11:50	0		0		0	
48	10/20/2014	11:51	0		0		0	

49	########	0.1	0.1	0.1
50	########	0	0	0.1
51	########	0	0	0.1
52	########	0.1	0.1	0.1
53	########	0.1	0.1	0.1
54	########	0.1	0.1	0.1
55	########	0.1	0.1	0.1
56	########	0.1	0.1	0.1
57	########	0.1	0.1	0.1
58	########	0	0	0.1
59	########	0.1	0.1	0.1
60	########	0.1	0.1	0.1
61	########	0.1	0.1	0.1
62	########	0.1	0.1	0.1
63	########	0.1	0.1	0.1
64	########	0.1	0.1	0.1
65	########	0.1	0.1	0.1
66	########	0.1	0.1	0.1
67	########	0.1	0.1	0.1
68	########	0.1	0.1	0.1
69	########	0.1	0.1	0.1
70	########	0.1	0.1	0.1
71	########	0.1	0.1	0.2
72	########	0.1	0.1	0.2
73	########	0.1	0.1	0.2
74	########	0.1	0.1	0.2
75	########	0.1	0.1	0.2
76	########	0.1	0.1	0.2
77	########	0.1	0.1	0.2
78	########	0.1	0.1	0.2
79	########	0.1	0.1	0.2
80	########	0.1	0.1	0.2
81	########	0.1	0.1	0.2
82	########	0.2	0.2	0.2
83	########	0.2	0.2	0.2
84	########	0.2	0.2	0.2
85	########	0.2	0.2	0.2
86	########	0.1	0.2	0.4
87	########	0.2	0.2	0.2
88	########	0.2	0.2	0.2
89	########	0.2	0.2	0.2
90	########	0.2	0.2	0.2
91	########	0.2	0.2	0.2
92	########	0.2	0.2	0.2
93	########	0.2	0.2	0.2
94	########	0.2	0.2	0.2
95	########	0.2	0.2	0.2
96	########	0.1	0.1	0.3
97	########	0.2	0.2	0.2
98	########	0.2	0.2	0.2
99	########	0.2	0.2	0.2
100	########	0.2	0.2	0.2
101	########	0.1	0.1	0.2
102	########	0.1	0.1	0.2
103	########	0.1	0.1	0.2
104	########	0.1	0.1	0.2
105	########	0.2	0.2	0.2
106	########	0.1	0.1	0.2
107	########	0.1	0.1	0.2
108	########	0.1	0.1	0.2
109	########	0.1	0.1	0.2

49	10/20/2014 11:52	0	0	0.2
50	10/20/2014 11:53	0	0	0
51	10/20/2014 11:54	0	0	0.1
52	10/20/2014 11:55	0	0.1	0.7
53	10/20/2014 11:56	0.1	0.3	1.3
54	10/20/2014 11:57	0	0.2	1.4
55	10/20/2014 11:58	0	0.1	0.4
56	10/20/2014 11:59	0	0.1	0.5
57	10/20/2014 12:00	0	0	0.1
58	10/20/2014 12:01	0	0	0
59	10/20/2014 12:02	0	0	0.5
60	10/20/2014 12:03	0.1	0.6	2.1
61	10/20/2014 12:04	0	0.1	0.2
62	10/20/2014 12:05	0	0	0.1
63	10/20/2014 12:06	0	0	0
64	10/20/2014 12:07	0	0	0.2
65	10/20/2014 12:08	0	0	0
66	10/20/2014 12:09	0	0	0.1
67	10/20/2014 12:10	0	0.1	0.3
68	10/20/2014 12:11	0	0	0
69	10/20/2014 12:12	0	0	0
70	10/20/2014 12:13	0	0	0.2
71	10/20/2014 12:14	0	0	0.2
72	10/20/2014 12:15	0	0	0.1
73	10/20/2014 12:16	0	0	0.1
74	10/20/2014 12:17	0	0	0
75	10/20/2014 12:18	0	0	0
76	10/20/2014 12:19	0	0	0
77	10/20/2014 12:20	0	0	0.1
78	10/20/2014 12:21	0	0	0
79	10/20/2014 12:22	0	0	0
80	10/20/2014 12:23	0	0	0
81	10/20/2014 12:24	0	0	0
82	10/20/2014 12:25	0	0	0
83	10/20/2014 12:26	0	0	0.1
84	10/20/2014 12:27	0	0	0.1
85	10/20/2014 12:28	0	0	0
86	10/20/2014 12:29	0	0	0.1
87	10/20/2014 12:30	0	0	0.1
88	10/20/2014 12:31	0	0	0.1
89	10/20/2014 12:32	0	0	0.1
90	10/20/2014 12:33	0	0	0.1
91	10/20/2014 12:34	0	0	0.1
92	10/20/2014 12:35	0	0	0.1
93	10/20/2014 12:36	0	0	0.1
94	10/20/2014 12:37	0	0	0.1
95	10/20/2014 12:38	0	0	0
96	10/20/2014 12:39	0	0	0.1
97	10/20/2014 12:40	0	0	0.1
98	10/20/2014 12:41	0	0	0
99	10/20/2014 12:42	0	0	0
100	10/20/2014 12:43	0	0	0.1
101	10/20/2014 12:44	0	0	0
102	10/20/2014 12:45	0	0	0
103	10/20/2014 12:46	0	0	0
104	10/20/2014 12:47	0	0	0
105	10/20/2014 12:48	0	0	0
106	10/20/2014 12:49	0	0	1.2
107	10/20/2014 12:50	0	0	0.1
108	10/20/2014 12:51	0	0	0.1
109	10/20/2014 12:52	0	0	0.4

110	########	0.1	0.1	0.2	110	10/20/2014 12:53	0	0	0
111	########	0.1	0.1	0.2	111	10/20/2014 12:54	0	0	0
112	########	0.1	0.1	0.2	112	10/20/2014 12:55	0	0	0.2
113	########	0.1	0.1	0.2	113	10/20/2014 12:56	0	0.1	1.6
114	########	0.1	0.1	0.2	114	10/20/2014 12:57	0	0.1	0.6
115	########	0.1	0.1	0.2	115	10/20/2014 12:58	0	0	0.7
116	########	0.1	0.1	0.2	116	10/20/2014 12:59	0	0.1	0.8
117	########	0.1	0.1	0.2	117	10/20/2014 13:00	0	0	0.3
118	########	0.1	0.1	0.2	118	10/20/2014 13:01	0	0	0.5
119	########	0.1	0.1	0.2	119	10/20/2014 13:02	0	0	0
120	########	0.1	0.1	0.2	120	10/20/2014 13:03	0	0	0
121	########	0.1	0.1	0.2	121	10/20/2014 13:04	0	0	0
122	########	0.1	0.1	0.2	122	10/20/2014 13:05	0	0	0
123	########	0.1	0.1	0.2	123	10/20/2014 13:06	0	0	0
124	########	0.1	0.1	0.2	124	10/20/2014 13:07	0	0	0
125	########	0.1	0.1	0.2	125	10/20/2014 13:08	0	0	0
126	########	0.1	0.1	0.2	126	10/20/2014 13:09	0	0	0.1
127	########	0.2	0.2	0.2	127	10/20/2014 13:10	0	0	0.1
128	########	0.2	0.2	0.2	128	10/20/2014 13:11	0	0	0.2
129	########	0.2	0.2	0.2	129	10/20/2014 13:12	0	0	0.1
130	########	0.1	0.1	0.2	130	10/20/2014 13:13	0	0	0.6
131	########	0.1	0.1	0.2	131	10/20/2014 13:14	0	0	0.1
132	########	0.1	0.1	0.2	132	10/20/2014 13:15	0	0	0.2
133	########	0.1	0.1	0.2	133	10/20/2014 13:16	0	0	0.1
134	########	0.1	0.1	0.2	134	10/20/2014 13:17	0	0	0
135	########	0.1	0.1	0.2	135	10/20/2014 13:18	0	0	0
136	########	0.1	0.1	0.2	136	10/20/2014 13:19	0	0	0
137	########	0.1	0.1	0.2	137	10/20/2014 13:20	0	0	0
138	########	0.2	0.2	0.2	138	10/20/2014 13:21	0	0	0
139	########	0.1	0.1	0.2	139	10/20/2014 13:22	0	0	0
140	########	0.1	0.1	0.2	140	10/20/2014 13:23	0	0	0
141	########	0.1	0.1	0.2	141	10/20/2014 13:24	0	0	0.1
142	########	0.1	0.1	0.2	142	10/20/2014 13:25	0	0	0
143	########	0.1	0.1	0.2	143	10/20/2014 13:26	0	0	0.1
144	########	0.2	0.2	0.2	144	10/20/2014 13:27	0	0	0.1
145	########	0.2	0.2	0.2	145	10/20/2014 13:28	0	0	0.1
146	########	0.2	0.2	0.2	146	10/20/2014 13:29	0	0	0.2
147	########	0.1	0.1	0.2	147	10/20/2014 13:30	0	0	0.1
148	########	0.1	0.1	0.2	148	10/20/2014 13:31	0	0	0.2
149	########	0.1	0.1	0.2	149	10/20/2014 13:32	0	0	0.2
150	########	0.2	0.2	0.2	150	10/20/2014 13:33	0	0.1	0.2
151	########	0.2	0.2	0.2	151	10/20/2014 13:34	0	0	0.1
152	########	0.2	0.2	0.2	152	10/20/2014 13:35	0.1	0.1	0.1
153	########	0.2	0.2	0.2	153	10/20/2014 13:36	0	0	0.2
154	########	0.2	0.2	0.2	154	10/20/2014 13:37	0	0	0.2
155	########	0.2	0.2	0.2	155	10/20/2014 13:38	0	0	0.2
156	########	0.2	0.2	0.2	156	10/20/2014 13:39	0	0	0.1
157	########	0.2	0.2	0.2	157	10/20/2014 13:40	0	0	0.1
158	########	0.2	0.2	0.2	158	10/20/2014 13:41	0	0	0.1
159	########	0.2	0.2	0.2	159	10/20/2014 13:42	0	0	0.1
160	########	0.2	0.2	0.2	160	10/20/2014 13:43	0	0	0.2
161	########	0.2	0.2	0.2	161	10/20/2014 13:44	0	0	0.1
162	########	0.2	0.2	0.2	162	10/20/2014 13:45	0	0	0.2
163	########	0.2	0.2	0.2	163	10/20/2014 13:46	0	0	0.1
164	########	0.2	0.2	0.2	164	10/20/2014 13:47	0	0	0.1
165	########	0.2	0.2	0.2	165	10/20/2014 13:48	0	0	0.1
166	########	0.2	0.2	0.2	166	10/20/2014 13:49	0	0	0.2
167	########	0.2	0.2	0.2	167	10/20/2014 13:50	0	0	0.1
168	########	0.2	0.2	0.2	168	10/20/2014 13:51	0	0	0.1
169	########	0.2	0.2	0.2	169	10/20/2014 13:52	0	0	0.1
170	########	0.2	0.2	0.2	170	10/20/2014 13:53	0	0	0.1

171	########	0.2	0.2	0.2	171	10/20/2014 13:54	0	0	0.1
172	########	0.2	0.2	0.2	172	10/20/2014 13:55	0	0	0.2
173	########	0.2	0.2	0.2	173	10/20/2014 13:56	0	0	0.2
174	########	0.2	0.2	0.2	174	10/20/2014 13:57	0	0	0.1
175	########	0.2	0.2	0.2	175	10/20/2014 13:58	0	0	0.1
176	########	0.2	0.2	0.2	176	10/20/2014 13:59	0	0	0.1
177	########	0.2	0.2	0.2	177	10/20/2014 14:00	0	0	0.2
178	########	0.2	0.2	0.2	178	10/20/2014 14:01	0	0	0.4
179	########	0.2	0.2	0.2	179	10/20/2014 14:02	0	0	0.1
180	########	0.2	0.2	0.2	180	10/20/2014 14:03	0	0	0.4
181	########	0.2	0.2	0.2	181	10/20/2014 14:04	0	0	0.2
182	########	0.2	0.2	0.2	182	10/20/2014 14:05	0	0	0.1
183	########	0.2	0.2	0.2	183	10/20/2014 14:06	0	0	0.1
184	########	0.2	0.2	0.2	184	10/20/2014 14:07	0	0	0
185	########	0.2	0.2	0.2	185	10/20/2014 14:08	0	0	0.1
186	########	0.2	0.2	0.2	186	10/20/2014 14:09	0	0	0.1
187	########	0.2	0.2	0.2	187	10/20/2014 14:10	0	0	0
188	########	0.2	0.2	0.2	188	10/20/2014 14:11	0	0	0
189	########	0.2	0.2	0.2	189	10/20/2014 14:12	0	0	0
190	########	0.2	0.2	0.2	190	10/20/2014 14:13	0	0	0
191	########	0.2	0.2	0.2	191	10/20/2014 14:14	0	0	0
192	########	0.2	0.2	0.2	192	10/20/2014 14:15	0	0	0
193	########	0.2	0.2	0.2	193	10/20/2014 14:16	0	0	0
194	########	0.2	0.2	0.2	194	10/20/2014 14:17	0	0	0
195	########	0.2	0.2	0.2	195	10/20/2014 14:18	0	0	0
196	########	0.2	0.2	0.2	196	10/20/2014 14:19	0	0	0
197	########	0.2	0.2	0.2	197	10/20/2014 14:20	0	0	0
198	########	0.2	0.2	0.2	198	10/20/2014 14:21	0	0	0.1
199	########	0.2	0.2	0.2	199	10/20/2014 14:22	0	0	0
200	########	0.2	0.2	0.2	200	10/20/2014 14:23	0	0	0
201	########	0.2	0.2	0.2	201	10/20/2014 14:24	0	0	0
202	########	0.2	0.2	0.2	202	10/20/2014 14:25	0	0	0
203	########	0.2	0.2	0.2	203	10/20/2014 14:26	0	0	0
204	########	0.2	0.2	0.2	204	10/20/2014 14:27	0	0	0
205	########	0.2	0.2	0.2	205	10/20/2014 14:28	0	0	0
206	########	0.2	0.2	0.2	206	10/20/2014 14:29	0	0	0
207	########	0.2	0.2	0.2	207	10/20/2014 14:30	0	0	0
208	########	0.2	0.2	0.3	208	10/20/2014 14:31	0	0	0
209	########	0.2	0.2	0.3	209	10/20/2014 14:32	0	0	0
210	########	0.2	0.2	0.2	210	10/20/2014 14:33	0	0	0
211	########	0.2	0.2	0.2	211	10/20/2014 14:34	0	0	0
212	########	0.2	0.2	0.2	212	10/20/2014 14:35	0	0	0
213	########	0.2	0.2	0.2	213	10/20/2014 14:36	0	0	0
214	########	0.2	0.2	0.2	214	10/20/2014 14:37	0	0	0
215	########	0.2	0.2	0.2	215	10/20/2014 14:38	0	0	0
216	########	0.2	0.2	0.2	216	10/20/2014 14:39	0	0	0
217	########	0.2	0.2	0.2	217	10/20/2014 14:40	0	0	0
218	########	0.2	0.2	0.2	218	10/20/2014 14:41	0	0	0
219	########	0.2	0.2	0.2	219	10/20/2014 14:42	0	0	0
220	########	0.2	0.2	0.2	220	10/20/2014 14:43	0	0	0
221	########	0.2	0.2	0.3	221	10/20/2014 14:44	0	0	0
222	########	0.2	0.2	0.3	222	10/20/2014 14:45	0	0	0
223	########	0.2	0.2	0.3	223	10/20/2014 14:46	0	0	0
224	########	0.2	0.2	0.2	224	10/20/2014 14:47	0	0	0
225	########	0.2	0.2	0.2	225	10/20/2014 14:48	0	0	0
226	########	0.2	0.2	0.3	226	10/20/2014 14:49	0	0	0
227	########	0.2	0.2	0.3	227	10/20/2014 14:50	0	0	0
228	########	0.2	0.2	0.3	228	10/20/2014 14:51	0	0	0
229	########	0.2	0.2	0.3	229	10/20/2014 14:52	0	0	0
230	########	0.2	0.2	0.2	230	10/20/2014 14:53	0	0	0
231	########	0.2	0.2	0.2	231	10/20/2014 14:54	0	0	0

232	########	0.2	0.2	0.2	232	10/20/2014 14:55	0	0	0
233	########	0.2	0.2	0.2	233	10/20/2014 14:56	0	0	0
234	########	0.2	0.2	0.2	234	10/20/2014 14:57	0	0	0
235	########	0.2	0.2	0.3	235	10/20/2014 14:58	0	0	0
236	########	0.2	0.2	0.3	236	10/20/2014 14:59	0	0	0
237	########	0.2	0.2	0.3	237	10/20/2014 15:00	0	0	0.1
238	########	0.2	0.2	0.3	238	10/20/2014 15:01	0	0	0
239	########	0.2	0.2	0.3	239	10/20/2014 15:02	0	0	0
240	########	0.2	0.2	0.3	240	10/20/2014 15:03	0	0	0
241	########	0.2	0.2	0.3	241	10/20/2014 15:04	0	0	0
242	########	0.2	0.2	0.3	242	10/20/2014 15:05	0	0	0
243	########	0.2	0.2	0.3	243	10/20/2014 15:06	0	0	0
244	########	0.2	0.2	0.3	244	10/20/2014 15:07	0	0	0
245	########	0.2	0.2	0.3	245	10/20/2014 15:08	0	0	0
246	########	0.2	0.2	0.2	246	10/20/2014 15:09	0	0	0
247	########	0.2	0.2	0.2	247	10/20/2014 15:10	0	0	0
248	########	0.2	0.2	0.2	248	10/20/2014 15:11	0	0	0
249	########	0.2	0.2	0.2	249	10/20/2014 15:12	0	0	0
250	########	0.2	0.2	0.2	250	10/20/2014 15:13	0	0	0
251	########	0.2	0.2	0.2	251	10/20/2014 15:14	0	0	0
252	########	0.2	0.2	0.3	252	10/20/2014 15:15	0	0	0.1
253	########	0.2	0.2	0.3	253	10/20/2014 15:16	0	0	0
254	########	0.2	0.2	0.3	254	10/20/2014 15:17	0	0	0
255	########	0.2	0.2	0.3	255	10/20/2014 15:18	0	0	0
256	########	0.2	0.3	1.6	256	10/20/2014 15:19	0	0	0
257	########	0.2	0.2	1	257	10/20/2014 15:20	0	0	0
258	########	0.3	0.5	1.5	258	10/20/2014 15:21	0	0	0.1
259	########	0.2	0.2	0.3	259	10/20/2014 15:22	0	0	0.1
260	########	0.2	0.2	0.3	260	10/20/2014 15:23	0	0	0
261	########	0.2	0.2	0.2	261	10/20/2014 15:24	0	0	0
262	########	0.2	0.2	0.3	262	10/20/2014 15:25	0	0	0
263	########	0.2	0.2	0.3	263	10/20/2014 15:26	0	0	0
264	########	0.2	0.2	0.4	264	10/20/2014 15:27	0	0	0
265	########	0.2	0.2	0.2	265	10/20/2014 15:28	0	0	0
266	########	0.2	0.2	0.2	266	10/20/2014 15:29	0	0	0
267	########	0.2	0.2	0.3	267	10/20/2014 15:30	0	0	0
268	########	0.2	0.3	1	268	10/20/2014 15:31	0	0	0
269	########	0.3	0.5	1.2	269	10/20/2014 15:32	0	0	0
270	########	0.3	0.4	1.2	270	10/20/2014 15:33	0	0	0
271	########	0.3	0.3	0.4	271	10/20/2014 15:34	0	0	0
272	########	0.3	0.4	2.2	272	10/20/2014 15:35	0	0	0.1
273	########	0.2	0.2	0.3	273	10/20/2014 15:36	0	0	0
274	########	0.2	0.2	0.3	274	10/20/2014 15:37	0	0	0.1
275	########	0.2	0.2	0.3	275	10/20/2014 15:38	0	0	0
276	########	0.2	0.2	0.3	276	10/20/2014 15:39	0	0	0.1
277	########	0.2	0.2	0.3	277	10/20/2014 15:40	0	0	0.1
278	########	0.2	0.2	0.3	278	10/20/2014 15:41	0	0	0
279	########	0.2	0.2	0.3	279	10/20/2014 15:42	0	0	0
280	########	0.2	0.2	0.3	280	10/20/2014 15:43	0	0	0
281	########	0.2	0.2	0.3	281	10/20/2014 15:44	0	0	0.1
282	########	0.2	0.2	0.3	282	10/20/2014 15:45	0	0	0.1
283	########	0.2	0.2	0.3	283	10/20/2014 15:46	0	0	0
284	########	0.2	0.3	1.6	284	10/20/2014 15:47	0	0	0
285	########	0.2	0.3	0.9	285	10/20/2014 15:48	0	0	0
286	########	0.3	0.4	1.3	286	10/20/2014 15:49	0	0	0
287	########	0.3	0.4	0.6	287	10/20/2014 15:50	0	0	0
288	########	0.3	0.3	0.5	288	10/20/2014 15:51	0	0	0
289	########	0.3	0.3	0.6	289	10/20/2014 15:52	0	0	0
290	########	0.3	0.3	0.3	290	10/20/2014 15:53	0	0	0
291	########	0.3	0.3	0.3	291	10/20/2014 15:54	0	0	0.1
292	########	0.2	0.2	0.3	292	10/20/2014 15:55	0	0	0

293	########	0.2	0.2	0.3
294	########	0.2	0.4	1.5
295	########	0.3	0.7	2
296	########	0.3	0.8	1.6
297	########	0.4	0.9	1.9
298	########	0.4	0.8	2
299	########	0.3	0.3	0.4
300	########	0.3	0.3	0.4
301	########	0.3	0.3	0.4
302	########	0.3	0.3	0.4
303	########	0.3	0.5	1.5
304	########	0.3	0.6	1.2
305	########	0.3	0.3	0.4
306	########	0.3	0.3	0.8
307	########	0.3	0.3	0.6
308	########	0.3	0.3	0.3
309	########	0.3	0.3	0.3
310	########	0.3	0.3	0.3
311	########	0.3	0.3	0.3
312	########	0.3	0.3	0.3
313	########	0.3	0.3	0.3
314	########	0.3	0.3	0.3
315	########	0.3	0.3	0.3

293	10/20/2014 15:56	0	0	0.1
294	10/20/2014 15:57	0	0	0
295	10/20/2014 15:58	0	0	0
296	10/20/2014 15:59	0	0	0
297	10/20/2014 16:00	0	0	0
298	10/20/2014 16:01	0	0	0
299	10/20/2014 16:02	0	0	0.1
300	10/20/2014 16:03	0	0	0
301	10/20/2014 16:04	0	0	0
302	10/20/2014 16:05	0	0	0
303	10/20/2014 16:06	0	0	0
304	10/20/2014 16:07	0	0	0
305	10/20/2014 16:08	0	0	0
306	10/20/2014 16:09	0	0	0
307	10/20/2014 16:10	0	0	0
308	10/20/2014 16:11	0	0	0
309	10/20/2014 16:12	0	0	0
310	10/20/2014 16:13	0	0	0
311	10/20/2014 16:14	0	0	0
312	10/20/2014 16:15	0	0	0
313	10/20/2014 16:16	0	0	0.1

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000021
Data Points: 133 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/21/2014 10:24

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/21/2014 11:08	0		0		0	
2	10/21/2014 11:09	0		0		0	
3	10/21/2014 11:10	0		0		0	
4	10/21/2014 11:11	0		0		0.1	
5	10/21/2014 11:12	0		0		0	
6	10/21/2014 11:13	0		0		0	
7	10/21/2014 11:14	0		0		0.2	
8	10/21/2014 11:15	0		0		0	
9	10/21/2014 11:16	0		0		0	
10	10/21/2014 11:17	0		0		0	
11	10/21/2014 11:18	0		0		0	
12	10/21/2014 11:19	0		0		0	
13	10/21/2014 11:20	0		0		0	
14	10/21/2014 11:21	0		0		0	
15	10/21/2014 11:22	0		0		0	
16	10/21/2014 11:23	0		0		0	
17	10/21/2014 11:24	0		0		0	
18	10/21/2014 11:25	0		0		0	
19	10/21/2014 11:26	0		0		0	
20	10/21/2014 11:27	0		0		0	
21	10/21/2014 11:28	0		0		0	
22	10/21/2014 11:29	0		0		0	
23	10/21/2014 11:30	0		0		0.1	
24	10/21/2014 11:31	0		0		0.1	
25	10/21/2014 11:32	0		0		0.1	
26	10/21/2014 11:33	0		0		0.2	
27	10/21/2014 11:34	0.1		0.1		0.2	
28	10/21/2014 11:35	0		0.1		0.2	
29	10/21/2014 11:36	0		0		0.1	
30	10/21/2014 11:37	0		0		0.1	
31	10/21/2014 11:38	0		0.1		0.2	
32	10/21/2014 11:39	0		0.1		0.7	
33	10/21/2014 11:40	0.1		0.1		0.3	
34	10/21/2014 11:41	0.1		0.1		0.2	
35	10/21/2014 11:42	0.1		0.1		0.2	
36	10/21/2014 11:43	0		0		0.1	
37	10/21/2014 11:44	0.1		0.1		0.2	
38	10/21/2014 11:45	0.1		0.1		0.2	
39	10/21/2014 11:46	0.1		0.1		0.3	
40	10/21/2014 11:47	0.1		0.1		0.3	
41	10/21/2014 11:48	0.1		0.1		0.2	
42	10/21/2014 11:49	0.1		0.1		0.2	
43	10/21/2014 11:50	0		0		0.1	
44	10/21/2014 11:51	0.1		0.1		0.2	
45	10/21/2014 11:52	0.1		0.1		0.2	
46	10/21/2014 11:53	0.1		0.2		1	
47	10/21/2014 11:54	0.1		0.1		0.4	
48	10/21/2014 11:55	0.1		0.4		2.5	
49	10/21/2014 11:56	0.1		0.1		0.3	
50	10/21/2014 11:57	0.1		0.1		0.2	
51	10/21/2014 11:58	0.1		0.1		0.2	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013280
User ID: 00000001 Site ID: 00000022
Data Points: 133 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 10/21/2014 10:30

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	10/21/2014 11:03	0		0		0	
2	10/21/2014 11:04	0		0		0	
3	10/21/2014 11:05	0		0		0	
4	10/21/2014 11:06	0		0		0	
5	10/21/2014 11:07	0		0		0	
6	10/21/2014 11:08	0		0		0	
7	10/21/2014 11:09	0		0		0	
8	10/21/2014 11:10	0		0		0	
9	10/21/2014 11:11	0		0		0	
10	10/21/2014 11:12	0		0		0	
11	10/21/2014 11:13	0		0		0	
12	10/21/2014 11:14	0		0		0	
13	10/21/2014 11:15	0		0		0	
14	10/21/2014 11:16	0		0		0	
15	10/21/2014 11:17	0		0		0	
16	10/21/2014 11:18	0		0		0	
17	10/21/2014 11:19	0		0		0	
18	10/21/2014 11:20	0		0		0	
19	10/21/2014 11:21	0		0		0	
20	10/21/2014 11:22	0		0		0	
21	10/21/2014 11:23	0		0		0	
22	10/21/2014 11:24	0		0		0	
23	10/21/2014 11:25	0		0		0	
24	10/21/2014 11:26	0		0		0	
25	10/21/2014 11:27	0		0		0	
26	10/21/2014 11:28	0		0		0	
27	10/21/2014 11:29	0		0		0	
28	10/21/2014 11:30	0		0		0	
29	10/21/2014 11:31	0		0		0	
30	10/21/2014 11:32	0		0		0	
31	10/21/2014 11:33	0		0		0	
32	10/21/2014 11:34	0		0		0	
33	10/21/2014 11:35	0		0		0	
34	10/21/2014 11:36	0		0		0	
35	10/21/2014 11:37	0		0		0	
36	10/21/2014 11:38	0		0		0	
37	10/21/2014 11:39	0		0		0	
38	10/21/2014 11:40	0		0		0	
39	10/21/2014 11:41	0		0		0	
40	10/21/2014 11:42	0		0		0	
41	10/21/2014 11:43	0		0		0	
42	10/21/2014 11:44	0		0		0.1	
43	10/21/2014 11:45	0		0		0	
44	10/21/2014 11:46	0		0		0	
45	10/21/2014 11:47	0		0		0	
46	10/21/2014 11:48	0		0		0	
47	10/21/2014 11:49	0		0		0	
48	10/21/2014 11:50	0		0		0	
49	10/21/2014 11:51	0		0		0	
50	10/21/2014 11:52	0		0		0	
51	10/21/2014 11:53	0		0		0	

52	10/21/2014 11:59	0	0.1	0.2
53	10/21/2014 12:00	0.1	0.2	0.7
54	10/21/2014 12:01	0.1	0.2	0.7
55	10/21/2014 12:02	0.1	0.1	0.1
56	10/21/2014 12:03	0.1	0.1	0.1
57	10/21/2014 12:04	0.1	0.1	0.2
58	10/21/2014 12:05	0.1	0.2	0.8
59	10/21/2014 12:06	0.1	0.1	0.2
60	10/21/2014 12:07	0.1	0.1	0.2
61	10/21/2014 12:08	0.1	0.1	0.2
62	10/21/2014 12:09	0.1	0.1	0.2
63	10/21/2014 12:10	0.2	0.2	0.2
64	10/21/2014 12:11	0.1	0.1	0.2
65	10/21/2014 12:12	0.1	0.2	0.3
66	10/21/2014 12:13	0.1	0.1	0.2
67	10/21/2014 12:14	0.1	0.1	0.2
68	10/21/2014 12:15	0.1	0.1	0.2
69	10/21/2014 12:16	0.1	0.1	0.2
70	10/21/2014 12:17	0.1	0.1	0.2
71	10/21/2014 12:18	0.1	0.1	0.2
72	10/21/2014 12:19	0.1	0.1	0.2
73	10/21/2014 12:20	0.1	0.1	0.2
74	10/21/2014 12:21	0.1	0.1	0.2
75	10/21/2014 12:22	0.1	0.2	0.3
76	10/21/2014 12:23	0.2	0.2	0.3
77	10/21/2014 12:24	0.1	0.1	0.3
78	10/21/2014 12:25	0.1	0.1	0.2
79	10/21/2014 12:26	0.1	0.1	0.2
80	10/21/2014 12:27	0.1	0.1	0.2
81	10/21/2014 12:28	0.2	0.2	0.3
82	10/21/2014 12:29	0.2	0.2	0.3
83	10/21/2014 12:30	0.2	0.2	0.3
84	10/21/2014 12:31	0.2	0.2	0.3
85	10/21/2014 12:32	0.2	0.2	0.3
86	10/21/2014 12:33	0.2	0.2	0.3
87	10/21/2014 12:34	0.2	0.2	0.3
88	10/21/2014 12:35	0.2	0.2	0.3
89	10/21/2014 12:36	0.2	0.2	0.3
90	10/21/2014 12:37	0.2	0.2	0.3
91	10/21/2014 12:38	0.2	0.2	0.3
92	10/21/2014 12:39	0.2	0.2	0.4
93	10/21/2014 12:40	0.2	0.2	0.3
94	10/21/2014 12:41	0.2	0.2	0.3
95	10/21/2014 12:42	0.2	0.2	0.3
96	10/21/2014 12:43	0.2	0.2	0.3
97	10/21/2014 12:44	0.2	0.2	0.3
98	10/21/2014 12:45	0.2	0.2	0.3
99	10/21/2014 12:46	0.2	0.2	0.3
100	10/21/2014 12:47	0.2	0.2	0.3
101	10/21/2014 12:48	0.3	0.3	0.4
102	10/21/2014 12:49	0.2	0.3	0.4
103	10/21/2014 12:50	0.2	0.2	0.3
104	10/21/2014 12:51	0.2	0.2	0.3
105	10/21/2014 12:52	0.2	0.2	0.4
106	10/21/2014 12:53	0.2	0.2	0.3
107	10/21/2014 12:54	0.2	0.2	0.3
108	10/21/2014 12:55	0.2	0.2	0.3
109	10/21/2014 12:56	0.2	0.2	0.3
110	10/21/2014 12:57	0.2	0.2	0.3
111	10/21/2014 12:58	0.2	0.2	0.3
112	10/21/2014 12:59	0.2	0.2	0.3
113	10/21/2014 13:00	0.2	0.2	0.3
114	10/21/2014 13:01	0.2	0.3	0.8
115	10/21/2014 13:02	0.2	0.3	0.4

52	10/21/2014 11:54	0	0	0
53	10/21/2014 11:55	0	0	0
54	10/21/2014 11:56	0	0	0
55	10/21/2014 11:57	0	0	0
56	10/21/2014 11:58	0	0	0
57	10/21/2014 11:59	0	0	0
58	10/21/2014 12:00	0	0	0
59	10/21/2014 12:01	0	0	0
60	10/21/2014 12:02	0	0	0
61	10/21/2014 12:03	0	0	0
62	10/21/2014 12:04	0	0	0
63	10/21/2014 12:05	0	0	0
64	10/21/2014 12:06	0	0	0
65	10/21/2014 12:07	0	0	0
66	10/21/2014 12:08	0	0	0
67	10/21/2014 12:09	0	0	0
68	10/21/2014 12:10	0	0	0
69	10/21/2014 12:11	0	0	0
70	10/21/2014 12:12	0	0	0
71	10/21/2014 12:13	0	0	0
72	10/21/2014 12:14	0	0	0
73	10/21/2014 12:15	0	0	0
74	10/21/2014 12:16	0	0	0
75	10/21/2014 12:17	0	0	0
76	10/21/2014 12:18	0	0	0
77	10/21/2014 12:19	0	0	0
78	10/21/2014 12:20	0	0	0
79	10/21/2014 12:21	0	0	0
80	10/21/2014 12:22	0	0	0
81	10/21/2014 12:23	0	0	0
82	10/21/2014 12:24	0	0	0
83	10/21/2014 12:25	0	0	0
84	10/21/2014 12:26	0	0	0
85	10/21/2014 12:27	0	0	0
86	10/21/2014 12:28	0	0	0
87	10/21/2014 12:29	0	0	0
88	10/21/2014 12:30	0	0	0
89	10/21/2014 12:31	0	0	0
90	10/21/2014 12:32	0	0	0.2
91	10/21/2014 12:33	0	0	0
92	10/21/2014 12:34	0	0	0
93	10/21/2014 12:35	0	0	0
94	10/21/2014 12:36	0	0	0
95	10/21/2014 12:37	0	0	0
96	10/21/2014 12:38	0	0	0
97	10/21/2014 12:39	0	0	0.1
98	10/21/2014 12:40	0	0	0
99	10/21/2014 12:41	0	0	0
100	10/21/2014 12:42	0	0	0.2
101	10/21/2014 12:43	0	0	0.1
102	10/21/2014 12:44	0	0	0.2
103	10/21/2014 12:45	0	0	0.1
104	10/21/2014 12:46	0	0	0
105	10/21/2014 12:47	0	0	0
106	10/21/2014 12:48	0	0	0
107	10/21/2014 12:49	0	0	0
108	10/21/2014 12:50	0	0	0
109	10/21/2014 12:51	0	0	0
110	10/21/2014 12:52	0	0	0.1
111	10/21/2014 12:53	0	0	0
112	10/21/2014 12:54	0	0	0.1
113	10/21/2014 12:55	0	0	0.3
114	10/21/2014 12:56	0	0	0
115	10/21/2014 12:57	0	0	0.2

116	10/21/2014 13:03	0.3	0.3	0.4
117	10/21/2014 13:04	0.2	0.2	0.4
118	10/21/2014 13:05	0.2	0.2	0.3
119	10/21/2014 13:06	0.2	0.2	0.3
120	10/21/2014 13:07	0.2	0.2	0.3
121	10/21/2014 13:08	0.2	0.2	0.4
122	10/21/2014 13:09	0.2	0.2	0.3
123	10/21/2014 13:10	0.2	0.2	0.3
124	10/21/2014 13:11	0.2	0.2	0.4
125	10/21/2014 13:12	0.2	0.2	0.3
126	10/21/2014 13:13	0.2	0.2	0.4
127	10/21/2014 13:14	0.2	0.3	0.4
128	10/21/2014 13:15	0.3	0.3	0.4
129	10/21/2014 13:16	0.2	0.3	0.4
130	10/21/2014 13:17	0.3	0.3	0.7
131	10/21/2014 13:18	0.3	0.3	0.3
132	10/21/2014 13:19	0.3	0.3	0.4
133	10/21/2014 13:20	0.2	0.3	0.4

116	10/21/2014 12:58	0	0	0
117	10/21/2014 12:59	0	0	0
118	10/21/2014 13:00	0	0	0
119	10/21/2014 13:01	0	0	0.1
120	10/21/2014 13:02	0	0	0
121	10/21/2014 13:03	0	0	0
122	10/21/2014 13:04	0	0	0
123	10/21/2014 13:05	0	0	0
124	10/21/2014 13:06	0	0	0
125	10/21/2014 13:07	0	0	0
126	10/21/2014 13:08	0	0	0
127	10/21/2014 13:09	0	0	0
128	10/21/2014 13:10	0	0	0
129	10/21/2014 13:11	0	0	0
130	10/21/2014 13:12	0	0	0
131	10/21/2014 13:13	0	0	0
132	10/21/2014 13:14	0	0	0
133	10/21/2014 13:15	0	0	0

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/7/2014
Test Name	MANUAL_001
Test Start Time	11:17:37 AM
Test Start Date	10/7/2014
Test Length [D:H:M]	0:04:55
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.016
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	0.12
PM1 TWA [mg/m3]	0.01
PM2.5 Average [mg/m3]	0.016
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	0.12
PM2.5 TWA [mg/m3]	0.01
PM4 Average [mg/m3]	0.017
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	0.12
PM4 TWA [mg/m3]	0.01
PM10 Average [mg/m3]	0.018
PM10 Minimum [mg/m3]	0.011
PM10 Maximum [mg/m3]	0.134
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.018
TOTAL Minimum [mg/m3]	0.011
TOTAL Maximum [mg/m3]	0.135
TOTAL TWA [mg/m3]	0.011
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	295

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms
11:17:00 AM	0.014	0.014	0.015	0.017	0.018	
11:18:00 AM	0.015	0.015	0.015	0.017	0.018	
11:19:00 AM	0.016	0.016	0.017	0.018	0.018	
11:20:00 AM	0.014	0.014	0.015	0.015	0.016	
11:21:00 AM	0.013	0.014	0.014	0.014	0.014	
11:22:00 AM	0.014	0.014	0.015	0.016	0.016	
11:23:00 AM	0.015	0.015	0.016	0.017	0.017	
11:24:00 AM	0.013	0.014	0.014	0.015	0.015	
11:25:00 AM	0.015	0.015	0.016	0.018	0.018	
11:26:00 AM	0.014	0.014	0.015	0.016	0.016	
11:27:00 AM	0.014	0.014	0.015	0.016	0.016	
11:28:00 AM	0.014	0.015	0.015	0.016	0.016	
11:29:00 AM	0.014	0.015	0.015	0.016	0.016	
11:30:00 AM	0.014	0.015	0.015	0.016	0.016	
11:31:00 AM	0.015	0.015	0.015	0.017	0.017	
11:32:00 AM	0.013	0.014	0.014	0.015	0.015	
11:33:00 AM	0.013	0.013	0.014	0.014	0.015	
11:34:00 AM	0.013	0.013	0.013	0.014	0.014	
11:35:00 AM	0.013	0.013	0.013	0.014	0.015	
11:36:00 AM	0.013	0.013	0.013	0.015	0.015	
11:37:00 AM	0.078	0.079	0.08	0.083	0.083	
11:38:00 AM	0.031	0.031	0.032	0.033	0.034	
11:39:00 AM	0.016	0.017	0.017	0.019	0.019	
11:40:00 AM	0.016	0.016	0.016	0.018	0.018	
11:41:00 AM	0.014	0.014	0.015	0.016	0.016	
11:42:00 AM	0.015	0.015	0.016	0.016	0.017	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/7/2014
Test Name	MANUAL_001
Test Start Time	11:19:57 AM
Test Start Date	10/7/2014
Test Length [D:H:M]	0:04:49
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.021
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	0.165
PM1 TWA [mg/m3]	0.013
PM2.5 Average [mg/m3]	0.022
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	0.173
PM2.5 TWA [mg/m3]	0.013
PM4 Average [mg/m3]	0.023
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	0.19
PM4 TWA [mg/m3]	0.014
PM10 Average [mg/m3]	0.026
PM10 Minimum [mg/m3]	0.01
PM10 Maximum [mg/m3]	0.226
PM10 TWA [mg/m3]	0.015
TOTAL Average [mg/m3]	0.026
TOTAL Minimum [mg/m3]	0.01
TOTAL Maximum [mg/m3]	0.227
TOTAL TWA [mg/m3]	0.016
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	289

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms	Difference
							-0.018
							-0.018
11:19:00 AM	0.014	0.014	0.015	0.015	0.015		-0.003
11:20:00 AM	0.014	0.014	0.015	0.015	0.015		-0.001
11:21:00 AM	0.014	0.015	0.015	0.016	0.016		0.002
11:22:00 AM	0.014	0.014	0.015	0.015	0.015		-0.001
11:23:00 AM	0.013	0.014	0.014	0.014	0.014		-0.003
11:24:00 AM	0.014	0.015	0.015	0.016	0.016		0.001
11:25:00 AM	0.014	0.014	0.015	0.015	0.015		-0.003
11:26:00 AM	0.014	0.014	0.015	0.015	0.015		-0.001
11:27:00 AM	0.013	0.014	0.014	0.014	0.014		-0.002
11:28:00 AM	0.014	0.015	0.015	0.016	0.016		0
11:29:00 AM	0.046	0.053	0.061	0.078	0.08		0.064
11:30:00 AM	0.039	0.047	0.055	0.074	0.077		0.061
11:31:00 AM	0.015	0.015	0.017	0.019	0.02		0.003
11:32:00 AM	0.013	0.014	0.014	0.014	0.014		-0.001
11:33:00 AM	0.013	0.013	0.014	0.014	0.014		-0.001
11:34:00 AM	0.013	0.014	0.014	0.014	0.015		0.001
11:35:00 AM	0.036	0.036	0.036	0.037	0.037		0.022
11:36:00 AM	0.015	0.016	0.016	0.017	0.017		0.002
11:37:00 AM	0.023	0.025	0.028	0.033	0.035		-0.048
11:38:00 AM	0.014	0.015	0.015	0.016	0.016		-0.018
11:39:00 AM	0.134	0.164	0.19	0.226	0.227		0.208
11:40:00 AM	0.131	0.155	0.178	0.212	0.216		0.198
11:41:00 AM	0.061	0.068	0.074	0.082	0.083		0.067
11:42:00 AM	0.017	0.017	0.018	0.019	0.019		0.002

11:43:00 AM	0.014	0.014	0.015	0.015	0.015	11:43:00 AM	0.057	0.065	0.074	0.086	0.086	0.071
11:44:00 AM	0.014	0.014	0.014	0.016	0.016	11:44:00 AM	0.104	0.117	0.13	0.155	0.157	0.141
11:45:00 AM	0.013	0.013	0.014	0.015	0.015	11:45:00 AM	0.016	0.017	0.017	0.019	0.019	0.004
11:46:00 AM	0.013	0.013	0.014	0.015	0.015	11:46:00 AM	0.015	0.015	0.016	0.016	0.016	0.001
11:47:00 AM	0.015	0.015	0.016	0.017	0.017	11:47:00 AM	0.02	0.021	0.021	0.022	0.022	0.005
11:48:00 AM	0.012	0.013	0.013	0.014	0.014	11:48:00 AM	0.023	0.025	0.026	0.029	0.029	0.015
11:49:00 AM	0.018	0.018	0.019	0.019	0.019	11:49:00 AM	0.017	0.018	0.019	0.02	0.02	0.001
11:50:00 AM	0.027	0.027	0.029	0.032	0.032	11:50:00 AM	0.022	0.023	0.024	0.027	0.027	-0.005
11:51:00 AM	0.017	0.017	0.018	0.019	0.02	11:51:00 AM	0.019	0.02	0.021	0.022	0.023	0.003
11:52:00 AM	0.023	0.024	0.026	0.03	0.031	11:52:00 AM	0.018	0.019	0.019	0.021	0.021	-0.01
11:53:00 AM	0.017	0.018	0.018	0.02	0.02	11:53:00 AM	0.017	0.018	0.019	0.02	0.021	0.001
11:54:00 AM	0.019	0.019	0.019	0.021	0.021	11:54:00 AM	0.017	0.018	0.019	0.021	0.021	0
11:55:00 AM	0.017	0.018	0.018	0.019	0.019	11:55:00 AM	0.025	0.026	0.027	0.031	0.031	0.012
11:56:00 AM	0.015	0.016	0.016	0.018	0.018	11:56:00 AM	0.015	0.016	0.016	0.016	0.017	-0.001
11:57:00 AM	0.015	0.015	0.016	0.017	0.017	11:57:00 AM	0.015	0.016	0.016	0.017	0.017	0
11:58:00 AM	0.014	0.014	0.015	0.016	0.016	11:58:00 AM	0.02	0.021	0.023	0.026	0.026	0.01
11:59:00 AM	0.014	0.014	0.015	0.015	0.015	11:59:00 AM	0.015	0.016	0.016	0.017	0.017	0.002
12:00:00 PM	0.017	0.017	0.017	0.018	0.018	12:00:00 PM	0.016	0.017	0.017	0.018	0.018	0
12:01:00 PM	0.013	0.014	0.014	0.015	0.015	12:01:00 PM	0.015	0.016	0.017	0.018	0.018	0.003
12:02:00 PM	0.014	0.014	0.015	0.016	0.016	12:02:00 PM	0.018	0.018	0.019	0.02	0.02	0.004
12:03:00 PM	0.014	0.014	0.015	0.016	0.016	12:03:00 PM	0.019	0.02	0.021	0.022	0.023	0.007
12:04:00 PM	0.017	0.017	0.018	0.019	0.019	12:04:00 PM	0.015	0.016	0.016	0.016	0.016	-0.003
12:05:00 PM	0.017	0.017	0.018	0.02	0.021	12:05:00 PM	0.165	0.173	0.177	0.181	0.181	0.16
12:06:00 PM	0.019	0.019	0.02	0.022	0.022	12:06:00 PM	0.015	0.015	0.016	0.016	0.017	-0.005
12:07:00 PM	0.014	0.014	0.015	0.016	0.016	12:07:00 PM	0.034	0.035	0.036	0.036	0.036	0.02
12:08:00 PM	0.014	0.014	0.014	0.015	0.015	12:08:00 PM	0.107	0.112	0.114	0.115	0.115	0.1
12:09:00 PM	0.012	0.013	0.013	0.013	0.013	12:09:00 PM	0.016	0.016	0.017	0.017	0.017	0.004
12:10:00 PM	0.015	0.015	0.015	0.017	0.017	12:10:00 PM	0.026	0.028	0.028	0.029	0.029	0.012
12:11:00 PM	0.016	0.016	0.017	0.019	0.019	12:11:00 PM	0.029	0.03	0.031	0.034	0.034	0.015
12:12:00 PM	0.017	0.017	0.018	0.019	0.019	12:12:00 PM	0.013	0.014	0.014	0.015	0.016	-0.003
12:13:00 PM	0.015	0.015	0.016	0.017	0.017	12:13:00 PM	0.014	0.015	0.015	0.016	0.017	0
12:14:00 PM	0.012	0.013	0.013	0.014	0.014	12:14:00 PM	0.014	0.015	0.015	0.016	0.016	0.002
12:15:00 PM	0.012	0.012	0.012	0.013	0.013	12:15:00 PM	0.015	0.015	0.015	0.016	0.016	0.003
12:16:00 PM	0.014	0.014	0.015	0.015	0.015	12:16:00 PM	0.015	0.015	0.015	0.016	0.016	0.001
12:17:00 PM	0.014	0.014	0.015	0.015	0.015	12:17:00 PM	0.017	0.017	0.018	0.019	0.02	0.005
12:18:00 PM	0.015	0.015	0.016	0.017	0.017	12:18:00 PM	0.015	0.016	0.016	0.017	0.017	0
12:19:00 PM	0.014	0.014	0.015	0.015	0.016	12:19:00 PM	0.014	0.014	0.015	0.015	0.016	0
12:20:00 PM	0.014	0.015	0.015	0.016	0.016	12:20:00 PM	0.018	0.019	0.019	0.02	0.02	0.004
12:21:00 PM	0.016	0.016	0.016	0.017	0.017	12:21:00 PM	0.017	0.017	0.017	0.018	0.018	0.001
12:22:00 PM	0.021	0.021	0.022	0.024	0.024	12:22:00 PM	0.014	0.015	0.015	0.016	0.016	-0.008
12:23:00 PM	0.017	0.017	0.018	0.018	0.018	12:23:00 PM	0.014	0.014	0.014	0.015	0.015	-0.003
12:24:00 PM	0.014	0.015	0.015	0.016	0.016	12:24:00 PM	0.03	0.032	0.033	0.034	0.035	0.019
12:25:00 PM	0.014	0.014	0.014	0.015	0.015	12:25:00 PM	0.013	0.013	0.014	0.014	0.014	-0.001
12:26:00 PM	0.012	0.013	0.013	0.013	0.013	12:26:00 PM	0.013	0.014	0.014	0.014	0.014	0.001
12:27:00 PM	0.012	0.012	0.012	0.012	0.012	12:27:00 PM	0.019	0.02	0.021	0.023	0.023	0.011
12:28:00 PM	0.012	0.013	0.013	0.013	0.013	12:28:00 PM	0.013	0.014	0.014	0.015	0.016	0.003
12:29:00 PM	0.012	0.012	0.013	0.013	0.013	12:29:00 PM	0.014	0.014	0.014	0.015	0.015	0.002
12:30:00 PM	0.012	0.013	0.013	0.014	0.014	12:30:00 PM	0.014	0.014	0.014	0.015	0.015	0.001
12:31:00 PM	0.012	0.012	0.012	0.013	0.013	12:31:00 PM	0.014	0.014	0.015	0.015	0.016	0.003
12:32:00 PM	0.012	0.013	0.013	0.013	0.013	12:32:00 PM	0.014	0.014	0.015	0.015	0.016	0.003
12:33:00 PM	0.013	0.013	0.014	0.015	0.015	12:33:00 PM	0.014	0.014	0.014	0.015	0.015	0
12:34:00 PM	0.013	0.013	0.013	0.014	0.014	12:34:00 PM	0.017	0.017	0.017	0.018	0.018	0.004
12:35:00 PM	0.013	0.013	0.013	0.014	0.014	12:35:00 PM	0.013	0.013	0.013	0.015	0.015	0.001
12:36:00 PM	0.013	0.013	0.013	0.014	0.014	12:36:00 PM	0.014	0.014	0.014	0.015	0.016	0.002
12:37:00 PM	0.013	0.013	0.014	0.014	0.014	12:37:00 PM	0.013	0.013	0.013	0.014	0.014	0
12:38:00 PM	0.019	0.019	0.019	0.02	0.02	12:38:00 PM	0.012	0.013	0.013	0.013	0.013	-0.007
12:39:00 PM	0.012	0.012	0.012	0.012	0.012	12:39:00 PM	0.012	0.013	0.013	0.013	0.013	0.001
12:40:00 PM	0.011	0.011	0.012	0.012	0.012	12:40:00 PM	0.012	0.013	0.013	0.013	0.013	0.001
12:41:00 PM	0.011	0.011	0.011	0.012	0.012	12:41:00 PM	0.043	0.044	0.044	0.045	0.045	0.033
12:42:00 PM	0.012	0.012	0.012	0.013	0.013	12:42:00 PM	0.02	0.021	0.022	0.024	0.024	0.011
12:43:00 PM	0.065	0.066	0.066	0.067	0.067	12:43:00 PM	0.02	0.022	0.023	0.025	0.025	-0.042
12:44:00 PM	0.029	0.03	0.032	0.035	0.035	12:44:00 PM	0.018	0.019	0.02	0.021	0.021	-0.014
12:45:00 PM	0.013	0.013	0.014	0.015	0.015	12:45:00 PM	0.014	0.015	0.015	0.016	0.016	0.001
12:46:00 PM	0.014	0.015	0.015	0.016	0.016	12:46:00 PM	0.018	0.019	0.02	0.02	0.02	0.004
12:47:00 PM	0.058	0.063	0.072	0.089	0.089	12:47:00 PM	0.017	0.018	0.019	0.02	0.02	-0.069

12:48:00 PM	0.09	0.096	0.109	0.134	0.135	12:48:00 PM	0.018	0.02	0.021	0.023	0.023	-0.112
12:49:00 PM	0.019	0.019	0.02	0.022	0.022	12:49:00 PM	0.016	0.018	0.018	0.019	0.019	-0.003
12:50:00 PM	0.017	0.018	0.018	0.02	0.02	12:50:00 PM	0.016	0.017	0.017	0.018	0.018	-0.002
12:51:00 PM	0.026	0.028	0.03	0.035	0.035	12:51:00 PM	0.029	0.033	0.035	0.038	0.038	0.003
12:52:00 PM	0.017	0.018	0.019	0.021	0.021	12:52:00 PM	0.022	0.024	0.025	0.027	0.027	0.006
12:53:00 PM	0.015	0.015	0.016	0.017	0.017	12:53:00 PM	0.014	0.014	0.015	0.015	0.015	-0.002
12:54:00 PM	0.017	0.017	0.018	0.019	0.019	12:54:00 PM	0.016	0.016	0.017	0.018	0.018	-0.001
12:55:00 PM	0.013	0.013	0.014	0.014	0.014	12:55:00 PM	0.017	0.019	0.019	0.02	0.02	0.006
12:56:00 PM	0.016	0.016	0.016	0.017	0.017	12:56:00 PM	0.019	0.02	0.021	0.022	0.022	0.005
12:57:00 PM	0.013	0.013	0.013	0.014	0.014	12:57:00 PM	0.027	0.028	0.029	0.031	0.032	0.018
12:58:00 PM	0.016	0.016	0.017	0.018	0.018	12:58:00 PM	0.019	0.02	0.02	0.021	0.021	0.003
12:59:00 PM	0.013	0.013	0.014	0.014	0.014	12:59:00 PM	0.015	0.015	0.016	0.017	0.017	0.003
1:00:00 PM	0.015	0.016	0.016	0.017	0.017	1:00:00 PM	0.014	0.014	0.014	0.015	0.015	-0.002
1:01:00 PM	0.014	0.014	0.015	0.015	0.015	1:01:00 PM	0.014	0.014	0.014	0.015	0.015	0
1:02:00 PM	0.013	0.014	0.014	0.015	0.015	1:02:00 PM	0.014	0.014	0.015	0.015	0.015	0
1:03:00 PM	0.014	0.015	0.015	0.016	0.016	1:03:00 PM	0.018	0.019	0.02	0.02	0.02	0.004
1:04:00 PM	0.013	0.013	0.014	0.014	0.014	1:04:00 PM	0.112	0.117	0.119	0.121	0.121	0.107
1:05:00 PM	0.012	0.012	0.013	0.013	0.013	1:05:00 PM	0.031	0.031	0.032	0.033	0.033	0.02
1:06:00 PM	0.013	0.013	0.013	0.014	0.014	1:06:00 PM	0.031	0.033	0.033	0.034	0.035	0.021
1:07:00 PM	0.015	0.015	0.015	0.016	0.016	1:07:00 PM	0.024	0.025	0.025	0.026	0.026	0.01
1:08:00 PM	0.014	0.014	0.015	0.015	0.015	1:08:00 PM	0.015	0.015	0.015	0.016	0.016	0.001
1:09:00 PM	0.019	0.019	0.02	0.021	0.021	1:09:00 PM	0.014	0.014	0.014	0.015	0.015	-0.006
1:10:00 PM	0.015	0.015	0.015	0.016	0.016	1:10:00 PM	0.018	0.019	0.019	0.02	0.02	0.004
1:11:00 PM	0.016	0.016	0.017	0.017	0.018	1:11:00 PM	0.04	0.042	0.044	0.048	0.048	0.03
1:12:00 PM	0.017	0.017	0.017	0.019	0.019	1:12:00 PM	0.015	0.016	0.016	0.017	0.017	-0.002
1:13:00 PM	0.014	0.014	0.015	0.015	0.015	1:13:00 PM	0.014	0.014	0.015	0.015	0.016	0.001
1:14:00 PM	0.013	0.014	0.014	0.015	0.015	1:14:00 PM	0.013	0.013	0.014	0.014	0.014	-0.001
1:15:00 PM	0.014	0.014	0.014	0.015	0.015	1:15:00 PM	0.014	0.014	0.015	0.015	0.015	0
1:16:00 PM	0.013	0.013	0.013	0.014	0.014	1:16:00 PM	0.042	0.047	0.055	0.073	0.074	0.06
1:17:00 PM	0.013	0.013	0.013	0.014	0.014	1:17:00 PM	0.014	0.015	0.015	0.016	0.016	0.002
1:18:00 PM	0.015	0.015	0.015	0.016	0.016	1:18:00 PM	0.014	0.014	0.015	0.015	0.015	-0.001
1:19:00 PM	0.013	0.013	0.013	0.014	0.014	1:19:00 PM	0.025	0.025	0.026	0.026	0.026	0.012
1:20:00 PM	0.014	0.014	0.014	0.015	0.015	1:20:00 PM	0.025	0.029	0.031	0.032	0.032	0.017
1:21:00 PM	0.019	0.019	0.019	0.02	0.02	1:21:00 PM	0.025	0.029	0.032	0.034	0.034	0.014
1:22:00 PM	0.014	0.014	0.014	0.015	0.015	1:22:00 PM	0.014	0.014	0.015	0.015	0.015	0
1:23:00 PM	0.013	0.013	0.014	0.014	0.014	1:23:00 PM	0.055	0.056	0.056	0.057	0.057	0.043
1:24:00 PM	0.014	0.014	0.014	0.015	0.015	1:24:00 PM	0.02	0.022	0.022	0.023	0.023	0.008
1:25:00 PM	0.022	0.022	0.022	0.023	0.023	1:25:00 PM	0.013	0.014	0.014	0.014	0.015	-0.008
1:26:00 PM	0.016	0.016	0.017	0.017	0.017	1:26:00 PM	0.012	0.012	0.013	0.013	0.013	-0.004
1:27:00 PM	0.013	0.013	0.013	0.014	0.014	1:27:00 PM	0.012	0.012	0.013	0.013	0.013	-0.001
1:28:00 PM	0.012	0.013	0.013	0.013	0.013	1:28:00 PM	0.015	0.015	0.016	0.016	0.016	0.003
1:29:00 PM	0.014	0.014	0.015	0.015	0.015	1:29:00 PM	0.016	0.017	0.018	0.02	0.02	0.005
1:30:00 PM	0.013	0.014	0.014	0.015	0.015	1:30:00 PM	0.018	0.019	0.02	0.021	0.021	0.006
1:31:00 PM	0.021	0.022	0.022	0.024	0.024	1:31:00 PM	0.013	0.014	0.015	0.016	0.016	-0.008
1:32:00 PM	0.017	0.017	0.018	0.019	0.019	1:32:00 PM	0.012	0.013	0.013	0.014	0.014	-0.005
1:33:00 PM	0.013	0.013	0.014	0.016	0.016	1:33:00 PM	0.012	0.013	0.013	0.014	0.014	-0.002
1:34:00 PM	0.012	0.012	0.012	0.013	0.013	1:34:00 PM	0.013	0.013	0.014	0.015	0.015	0.002
1:35:00 PM	0.012	0.012	0.012	0.013	0.013	1:35:00 PM	0.012	0.012	0.013	0.013	0.013	0
1:36:00 PM	0.012	0.012	0.013	0.013	0.013	1:36:00 PM	0.013	0.014	0.015	0.016	0.016	0.003
1:37:00 PM	0.012	0.012	0.012	0.013	0.013	1:37:00 PM	0.022	0.025	0.029	0.035	0.036	0.023
1:38:00 PM	0.011	0.012	0.012	0.012	0.012	1:38:00 PM	0.026	0.031	0.036	0.047	0.047	0.035
1:39:00 PM	0.012	0.012	0.013	0.013	0.014	1:39:00 PM	0.012	0.012	0.012	0.013	0.013	-0.001
1:40:00 PM	0.011	0.012	0.012	0.013	0.013	1:40:00 PM	0.015	0.017	0.018	0.02	0.02	0.007
1:41:00 PM	0.012	0.012	0.012	0.013	0.013	1:41:00 PM	0.011	0.012	0.012	0.012	0.013	0
1:42:00 PM	0.011	0.012	0.012	0.012	0.012	1:42:00 PM	0.012	0.012	0.012	0.013	0.013	0.001
1:43:00 PM	0.012	0.012	0.012	0.013	0.013	1:43:00 PM	0.012	0.012	0.012	0.012	0.012	-0.001
1:44:00 PM	0.012	0.012	0.012	0.013	0.013	1:44:00 PM	0.012	0.012	0.012	0.012	0.012	-0.001
1:45:00 PM	0.011	0.012	0.012	0.012	0.012	1:45:00 PM	0.012	0.012	0.012	0.013	0.013	0.001
1:46:00 PM	0.012	0.012	0.012	0.012	0.012	1:46:00 PM	0.013	0.014	0.014	0.015	0.015	0.003
1:47:00 PM	0.011	0.012	0.012	0.012	0.012	1:47:00 PM	0.012	0.013	0.013	0.013	0.014	0.002
1:48:00 PM	0.012	0.012	0.013	0.013	0.013	1:48:00 PM	0.013	0.014	0.014	0.015	0.015	0.002
1:49:00 PM	0.013	0.013	0.013	0.014	0.014	1:49:00 PM	0.012	0.013	0.013	0.014	0.014	0
1:50:00 PM	0.013	0.013	0.014	0.014	0.014	1:50:00 PM	0.012	0.012	0.013	0.013	0.013	-0.001
1:51:00 PM	0.013	0.013	0.013	0.014	0.014	1:51:00 PM	0.024	0.027	0.031	0.041	0.042	0.028
1:52:00 PM	0.012	0.012	0.013	0.013	0.013	1:52:00 PM	0.012	0.012	0.013	0.013	0.013	0

1:53:00 PM	0.013	0.014	0.014	0.016	0.016	1:53:00 PM	0.012	0.013	0.014	0.015	0.015	-0.001
1:54:00 PM	0.012	0.012	0.013	0.013	0.013	1:54:00 PM	0.011	0.012	0.012	0.012	0.012	-0.001
1:55:00 PM	0.011	0.011	0.012	0.013	0.013	1:55:00 PM	0.012	0.012	0.012	0.013	0.013	0
1:56:00 PM	0.012	0.012	0.012	0.013	0.013	1:56:00 PM	0.013	0.014	0.015	0.017	0.017	0.004
1:57:00 PM	0.012	0.012	0.013	0.014	0.014	1:57:00 PM	0.014	0.016	0.017	0.019	0.02	0.006
1:58:00 PM	0.012	0.012	0.013	0.014	0.014	1:58:00 PM	0.011	0.011	0.011	0.012	0.012	-0.002
1:59:00 PM	0.012	0.013	0.013	0.014	0.014	1:59:00 PM	0.011	0.011	0.012	0.012	0.012	-0.002
2:00:00 PM	0.012	0.012	0.013	0.014	0.014	2:00:00 PM	0.011	0.011	0.012	0.012	0.012	-0.002
2:01:00 PM	0.012	0.012	0.013	0.014	0.014	2:01:00 PM	0.01	0.011	0.011	0.011	0.011	-0.003
2:02:00 PM	0.012	0.012	0.013	0.014	0.014	2:02:00 PM	0.012	0.013	0.013	0.015	0.015	0.001
2:03:00 PM	0.011	0.012	0.012	0.013	0.013	2:03:00 PM	0.063	0.075	0.091	0.135	0.14	0.127
2:04:00 PM	0.012	0.012	0.012	0.013	0.013	2:04:00 PM	0.023	0.027	0.032	0.044	0.046	0.033
2:05:00 PM	0.012	0.012	0.012	0.013	0.013	2:05:00 PM	0.012	0.012	0.012	0.013	0.013	0
2:06:00 PM	0.012	0.012	0.013	0.013	0.014	2:06:00 PM	0.011	0.012	0.012	0.012	0.012	-0.002
2:07:00 PM	0.012	0.012	0.013	0.013	0.013	2:07:00 PM	0.012	0.012	0.013	0.013	0.013	0
2:08:00 PM	0.012	0.012	0.012	0.013	0.013	2:08:00 PM	0.012	0.013	0.013	0.014	0.014	0.001
2:09:00 PM	0.012	0.013	0.013	0.014	0.014	2:09:00 PM	0.012	0.013	0.013	0.014	0.014	0
2:10:00 PM	0.013	0.014	0.014	0.016	0.016	2:10:00 PM	0.012	0.012	0.013	0.013	0.013	-0.003
2:11:00 PM	0.013	0.014	0.014	0.015	0.015	2:11:00 PM	0.011	0.012	0.012	0.013	0.013	-0.002
2:12:00 PM	0.013	0.013	0.014	0.015	0.015	2:12:00 PM	0.012	0.012	0.013	0.013	0.014	-0.001
2:13:00 PM	0.012	0.013	0.013	0.014	0.014	2:13:00 PM	0.012	0.012	0.012	0.013	0.013	-0.001
2:14:00 PM	0.012	0.013	0.013	0.014	0.014	2:14:00 PM	0.012	0.012	0.013	0.014	0.014	0
2:15:00 PM	0.013	0.013	0.013	0.014	0.014	2:15:00 PM	0.01	0.011	0.011	0.012	0.012	-0.002
2:16:00 PM	0.013	0.013	0.014	0.015	0.015	2:16:00 PM	0.01	0.011	0.011	0.011	0.012	-0.003
2:17:00 PM	0.012	0.012	0.012	0.013	0.013	2:17:00 PM	0.01	0.011	0.011	0.012	0.012	-0.001
2:18:00 PM	0.011	0.011	0.012	0.013	0.013	2:18:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:19:00 PM	0.012	0.012	0.012	0.013	0.013	2:19:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:20:00 PM	0.011	0.011	0.012	0.013	0.013	2:20:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:21:00 PM	0.011	0.011	0.011	0.012	0.012	2:21:00 PM	0.01	0.01	0.01	0.01	0.01	-0.002
2:22:00 PM	0.011	0.011	0.011	0.012	0.012	2:22:00 PM	0.01	0.01	0.01	0.011	0.011	-0.001
2:23:00 PM	0.01	0.01	0.01	0.011	0.011	2:23:00 PM	0.01	0.01	0.011	0.011	0.011	0
2:24:00 PM	0.01	0.01	0.011	0.011	0.012	2:24:00 PM	0.01	0.011	0.011	0.012	0.012	0
2:25:00 PM	0.01	0.011	0.011	0.012	0.012	2:25:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:26:00 PM	0.011	0.011	0.011	0.012	0.012	2:26:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:27:00 PM	0.011	0.012	0.012	0.013	0.013	2:27:00 PM	0.01	0.011	0.011	0.012	0.012	-0.001
2:28:00 PM	0.011	0.011	0.012	0.012	0.012	2:28:00 PM	0.01	0.01	0.011	0.011	0.011	-0.001
2:29:00 PM	0.011	0.011	0.012	0.012	0.012	2:29:00 PM	0.01	0.011	0.011	0.012	0.012	0
2:30:00 PM	0.01	0.01	0.011	0.011	0.012	2:30:00 PM	0.01	0.01	0.011	0.011	0.011	-0.001
2:31:00 PM	0.01	0.011	0.011	0.012	0.012	2:31:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:32:00 PM	0.011	0.011	0.011	0.012	0.012	2:32:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:33:00 PM	0.01	0.011	0.011	0.011	0.011	2:33:00 PM	0.01	0.011	0.011	0.011	0.012	0.001
2:34:00 PM	0.011	0.011	0.011	0.012	0.012	2:34:00 PM	0.011	0.012	0.012	0.013	0.013	0.001
2:35:00 PM	0.011	0.011	0.011	0.012	0.013	2:35:00 PM	0.011	0.011	0.012	0.012	0.012	-0.001
2:36:00 PM	0.012	0.012	0.013	0.013	0.013	2:36:00 PM	0.011	0.011	0.012	0.012	0.012	-0.001
2:37:00 PM	0.012	0.012	0.013	0.014	0.014	2:37:00 PM	0.01	0.011	0.011	0.011	0.011	-0.003
2:38:00 PM	0.011	0.011	0.012	0.013	0.013	2:38:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:39:00 PM	0.011	0.011	0.011	0.012	0.012	2:39:00 PM	0.01	0.01	0.011	0.011	0.011	-0.001
2:40:00 PM	0.011	0.011	0.012	0.012	0.012	2:40:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:41:00 PM	0.01	0.011	0.011	0.011	0.011	2:41:00 PM	0.01	0.01	0.011	0.011	0.011	0
2:42:00 PM	0.011	0.011	0.012	0.013	0.013	2:42:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:43:00 PM	0.011	0.011	0.011	0.012	0.012	2:43:00 PM	0.01	0.01	0.011	0.012	0.012	0
2:44:00 PM	0.011	0.012	0.012	0.013	0.013	2:44:00 PM	0.01	0.011	0.011	0.012	0.012	-0.001
2:45:00 PM	0.01	0.011	0.011	0.012	0.012	2:45:00 PM	0.01	0.011	0.011	0.012	0.012	0
2:46:00 PM	0.012	0.012	0.012	0.013	0.013	2:46:00 PM	0.01	0.011	0.011	0.012	0.012	-0.001
2:47:00 PM	0.012	0.012	0.012	0.013	0.013	2:47:00 PM	0.01	0.011	0.011	0.011	0.011	-0.002
2:48:00 PM	0.011	0.012	0.012	0.012	0.012	2:48:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
2:49:00 PM	0.01	0.011	0.011	0.012	0.012	2:49:00 PM	0.01	0.011	0.011	0.012	0.012	0
2:50:00 PM	0.011	0.011	0.011	0.012	0.012	2:50:00 PM	0.011	0.011	0.011	0.012	0.012	0
2:51:00 PM	0.011	0.011	0.011	0.012	0.012	2:51:00 PM	0.054	0.064	0.073	0.085	0.087	0.075
2:52:00 PM	0.12	0.12	0.12	0.121	0.121	2:52:00 PM	0.026	0.031	0.035	0.042	0.043	-0.078
2:53:00 PM	0.027	0.027	0.027	0.028	0.028	2:53:00 PM	0.051	0.062	0.069	0.079	0.081	0.053
2:54:00 PM	0.059	0.064	0.074	0.096	0.096	2:54:00 PM	0.036	0.042	0.046	0.052	0.052	-0.044
2:55:00 PM	0.016	0.016	0.017	0.018	0.018	2:55:00 PM	0.017	0.018	0.019	0.02	0.02	0.002
2:56:00 PM	0.025	0.025	0.025	0.026	0.026	2:56:00 PM	0.014	0.015	0.016	0.017	0.017	-0.009
2:57:00 PM	0.061	0.063	0.065	0.069	0.069	2:57:00 PM	0.013	0.014	0.014	0.015	0.015	-0.054

2:58:00 PM	0.03	0.03	0.03	0.031	0.031	2:58:00 PM	0.025	0.027	0.028	0.03	0.03	-0.001
2:59:00 PM	0.019	0.019	0.02	0.02	0.02	2:59:00 PM	0.017	0.018	0.019	0.02	0.02	0
3:00:00 PM	0.023	0.024	0.024	0.025	0.025	3:00:00 PM	0.011	0.011	0.012	0.013	0.013	-0.012
3:01:00 PM	0.025	0.025	0.026	0.027	0.027	3:01:00 PM	0.011	0.012	0.012	0.014	0.014	-0.013
3:02:00 PM	0.022	0.022	0.023	0.024	0.024	3:02:00 PM	0.01	0.011	0.011	0.011	0.011	-0.013
3:03:00 PM	0.018	0.018	0.019	0.019	0.019	3:03:00 PM	0.012	0.013	0.013	0.014	0.014	-0.005
3:04:00 PM	0.015	0.015	0.016	0.016	0.016	3:04:00 PM	0.019	0.021	0.024	0.028	0.029	0.013
3:05:00 PM	0.014	0.015	0.015	0.016	0.016	3:05:00 PM	0.011	0.011	0.011	0.012	0.012	-0.004
3:06:00 PM	0.017	0.017	0.018	0.018	0.018	3:06:00 PM	0.072	0.083	0.099	0.135	0.139	0.121
3:07:00 PM	0.017	0.017	0.017	0.018	0.018	3:07:00 PM	0.069	0.072	0.076	0.083	0.084	0.066
3:08:00 PM	0.015	0.015	0.016	0.016	0.016	3:08:00 PM	0.014	0.014	0.015	0.015	0.015	-0.001
3:09:00 PM	0.015	0.015	0.016	0.017	0.017	3:09:00 PM	0.019	0.019	0.02	0.022	0.022	0.005
3:10:00 PM	0.017	0.017	0.018	0.019	0.019	3:10:00 PM	0.013	0.014	0.014	0.015	0.015	-0.004
3:11:00 PM	0.015	0.016	0.016	0.018	0.018	3:11:00 PM	0.016	0.017	0.017	0.018	0.019	0.001
3:12:00 PM	0.014	0.015	0.015	0.016	0.016	3:12:00 PM	0.053	0.056	0.059	0.065	0.066	0.05
3:13:00 PM	0.016	0.017	0.017	0.019	0.019	3:13:00 PM	0.024	0.026	0.028	0.033	0.034	0.015
3:14:00 PM	0.014	0.014	0.015	0.015	0.015	3:14:00 PM	0.124	0.13	0.132	0.134	0.134	0.119
3:15:00 PM	0.011	0.011	0.012	0.012	0.012	3:15:00 PM	0.061	0.064	0.069	0.079	0.081	0.069
3:16:00 PM	0.015	0.015	0.015	0.016	0.016	3:16:00 PM	0.014	0.015	0.015	0.016	0.017	0.001
3:17:00 PM	0.021	0.021	0.022	0.022	0.022	3:17:00 PM	0.031	0.034	0.036	0.043	0.044	0.022
3:18:00 PM	0.012	0.012	0.013	0.013	0.013	3:18:00 PM	0.011	0.011	0.011	0.012	0.013	0
3:19:00 PM	0.018	0.019	0.019	0.021	0.021	3:19:00 PM	0.011	0.012	0.012	0.012	0.012	-0.009
3:20:00 PM	0.013	0.013	0.014	0.015	0.015	3:20:00 PM	0.011	0.011	0.012	0.012	0.012	-0.003
3:21:00 PM	0.014	0.015	0.015	0.016	0.016	3:21:00 PM	0.077	0.08	0.081	0.083	0.084	0.068
3:22:00 PM	0.012	0.012	0.012	0.013	0.013	3:22:00 PM	0.032	0.034	0.036	0.039	0.04	0.027
3:23:00 PM	0.011	0.011	0.012	0.012	0.012	3:23:00 PM	0.016	0.017	0.017	0.018	0.018	0.006
3:24:00 PM	0.012	0.012	0.012	0.013	0.013	3:24:00 PM	0.012	0.013	0.013	0.014	0.014	0.001
3:25:00 PM	0.014	0.014	0.014	0.016	0.016	3:25:00 PM	0.022	0.022	0.023	0.024	0.024	0.008
3:26:00 PM	0.012	0.013	0.013	0.014	0.014	3:26:00 PM	0.031	0.032	0.032	0.033	0.033	0.019
3:27:00 PM	0.012	0.012	0.013	0.014	0.014	3:27:00 PM	0.035	0.037	0.038	0.039	0.039	0.025
3:28:00 PM	0.014	0.014	0.014	0.015	0.015	3:28:00 PM	0.043	0.044	0.045	0.048	0.049	0.034
3:29:00 PM	0.019	0.019	0.019	0.021	0.021	3:29:00 PM	0.019	0.02	0.02	0.022	0.023	0.002
3:30:00 PM	0.019	0.019	0.019	0.02	0.02	3:30:00 PM	0.015	0.015	0.016	0.016	0.016	-0.004
3:31:00 PM	0.017	0.017	0.017	0.018	0.018	3:31:00 PM	0.017	0.017	0.018	0.018	0.018	0
3:32:00 PM	0.012	0.012	0.012	0.013	0.013	3:32:00 PM	0.063	0.065	0.066	0.067	0.068	0.055
3:33:00 PM	0.014	0.014	0.014	0.015	0.015	3:33:00 PM	0.014	0.014	0.015	0.016	0.016	0.001
3:34:00 PM	0.012	0.013	0.013	0.014	0.014	3:34:00 PM	0.011	0.011	0.012	0.012	0.012	-0.002
3:35:00 PM	0.02	0.02	0.02	0.021	0.021	3:35:00 PM	0.01	0.011	0.011	0.011	0.011	-0.01
3:36:00 PM	0.016	0.016	0.016	0.017	0.017	3:36:00 PM	0.01	0.011	0.011	0.011	0.011	-0.006
3:37:00 PM	0.017	0.017	0.017	0.018	0.018	3:37:00 PM	0.033	0.034	0.034	0.035	0.035	0.017
3:38:00 PM	0.014	0.015	0.015	0.015	0.015	3:38:00 PM	0.018	0.019	0.02	0.021	0.021	0.006
3:39:00 PM	0.02	0.02	0.02	0.021	0.021	3:39:00 PM	0.01	0.01	0.01	0.011	0.012	-0.009
3:40:00 PM	0.017	0.017	0.017	0.018	0.018	3:40:00 PM	0.011	0.011	0.012	0.012	0.012	-0.006
3:41:00 PM	0.023	0.023	0.024	0.024	0.024	3:41:00 PM	0.011	0.011	0.012	0.012	0.012	-0.012
3:42:00 PM	0.016	0.016	0.017	0.018	0.018	3:42:00 PM	0.012	0.013	0.013	0.014	0.014	-0.004
3:43:00 PM	0.016	0.016	0.017	0.017	0.017	3:43:00 PM	0.085	0.086	0.088	0.091	0.091	0.074
3:44:00 PM	0.021	0.021	0.021	0.022	0.022	3:44:00 PM	0.01	0.01	0.011	0.011	0.011	-0.011
3:45:00 PM	0.027	0.027	0.027	0.028	0.029	3:45:00 PM	0.013	0.013	0.013	0.014	0.014	-0.015
3:46:00 PM	0.018	0.018	0.019	0.019	0.019	3:46:00 PM	0.013	0.013	0.013	0.014	0.014	-0.005
3:47:00 PM	0.02	0.021	0.021	0.022	0.022	3:47:00 PM	0.01	0.011	0.011	0.012	0.012	-0.01
3:48:00 PM	0.012	0.012	0.012	0.013	0.013	3:48:00 PM	0.01	0.011	0.011	0.011	0.012	-0.001
3:49:00 PM	0.014	0.014	0.015	0.016	0.016	3:49:00 PM	0.027	0.028	0.029	0.029	0.029	0.013
3:50:00 PM	0.012	0.012	0.012	0.013	0.013	3:50:00 PM	0.056	0.058	0.059	0.06	0.06	0.047
3:51:00 PM	0.013	0.013	0.013	0.014	0.014	3:51:00 PM	0.085	0.086	0.087	0.089	0.089	0.075
3:52:00 PM	0.028	0.028	0.029	0.029	0.029	3:52:00 PM	0.01	0.011	0.011	0.011	0.011	-0.018
3:53:00 PM	0.023	0.023	0.023	0.024	0.025	3:53:00 PM	0.011	0.011	0.012	0.013	0.013	-0.012
3:54:00 PM	0.018	0.018	0.018	0.019	0.019	3:54:00 PM	0.012	0.012	0.013	0.014	0.014	-0.005
3:55:00 PM	0.012	0.013	0.013	0.013	0.013	3:55:00 PM	0.013	0.014	0.014	0.014	0.014	0.001
3:56:00 PM	0.02	0.02	0.02	0.021	0.021	3:56:00 PM	0.037	0.037	0.038	0.039	0.04	0.019
3:57:00 PM	0.021	0.021	0.021	0.022	0.022	3:57:00 PM	0.018	0.018	0.019	0.019	0.019	-0.003
3:58:00 PM	0.019	0.019	0.02	0.021	0.021	3:58:00 PM	0.011	0.012	0.012	0.013	0.013	-0.008
3:59:00 PM	0.019	0.019	0.02	0.021	0.021	3:59:00 PM	0.011	0.012	0.012	0.012	0.012	-0.009
4:00:00 PM	0.018	0.018	0.018	0.019	0.019	4:00:00 PM	0.01	0.011	0.011	0.011	0.011	-0.008
4:01:00 PM	0.016	0.016	0.016	0.017	0.017	4:01:00 PM	0.01	0.01	0.011	0.011	0.011	-0.006
4:02:00 PM	0.011	0.011	0.012	0.012	0.012	4:02:00 PM	0.01	0.01	0.011	0.011	0.011	-0.001

4:03:00 PM	0.011	0.011	0.011	0.012	0.012	4:03:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
4:04:00 PM	0.011	0.011	0.012	0.013	0.013	4:04:00 PM	0.014	0.015	0.017	0.021	0.021	0.008
4:05:00 PM	0.011	0.011	0.011	0.012	0.012	4:05:00 PM	0.011	0.011	0.012	0.012	0.012	0
4:06:00 PM	0.012	0.012	0.013	0.013	0.014	4:06:00 PM	0.011	0.012	0.012	0.013	0.013	-0.001
4:07:00 PM	0.011	0.011	0.012	0.012	0.012	4:07:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
4:08:00 PM	0.011	0.011	0.011	0.012	0.012							-0.012
4:09:00 PM	0.011	0.011	0.011	0.013	0.013							-0.013
4:10:00 PM	0.01	0.01	0.011	0.011	0.011							-0.011
4:11:00 PM	0.011	0.011	0.011	0.012	0.012							-0.012

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/8/2014
Test Name	MANUAL_002
Test Start Time	11:01:14 AM
Test Start Date	10/8/2014
Test Length [D:H:M]	0:05:01
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.017
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	0.306
PM1 TWA [mg/m3]	0.011
PM2.5 Average [mg/m3]	0.018
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	0.325
PM2.5 TWA [mg/m3]	0.011
PM4 Average [mg/m3]	0.019
PM4 Minimum [mg/m3]	0.011
PM4 Maximum [mg/m3]	0.386
PM4 TWA [mg/m3]	0.012
PM10 Average [mg/m3]	0.022
PM10 Minimum [mg/m3]	0.011
PM10 Maximum [mg/m3]	0.487
PM10 TWA [mg/m3]	0.014
TOTAL Average [mg/m3]	0.022
TOTAL Minimum [mg/m3]	0.011
TOTAL Maximum [mg/m3]	0.487
TOTAL TWA [mg/m3]	0.014
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	301

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms
11:01:00 AM	0.013	0.014	0.015	0.018	0.018	
11:02:00 AM	0.013	0.013	0.014	0.015	0.015	
11:03:00 AM	0.017	0.018	0.019	0.023	0.023	
11:04:00 AM	0.017	0.017	0.019	0.025	0.026	
11:05:00 AM	0.306	0.306	0.307	0.31	0.31	
11:06:00 AM	0.012	0.012	0.013	0.015	0.015	
11:07:00 AM	0.014	0.014	0.016	0.018	0.018	
11:08:00 AM	0.015	0.015	0.017	0.021	0.021	
11:09:00 AM	0.013	0.014	0.014	0.017	0.017	
11:10:00 AM	0.01	0.01	0.011	0.012	0.012	
11:11:00 AM	0.015	0.015	0.016	0.017	0.017	
11:12:00 AM	0.016	0.017	0.018	0.021	0.021	
11:13:00 AM	0.017	0.017	0.018	0.021	0.021	
11:14:00 AM	0.017	0.017	0.019	0.021	0.022	
11:15:00 AM	0.013	0.013	0.014	0.015	0.015	
11:16:00 AM	0.014	0.014	0.015	0.017	0.017	
11:17:00 AM	0.014	0.014	0.015	0.017	0.017	
11:18:00 AM	0.015	0.015	0.016	0.019	0.019	
11:19:00 AM	0.017	0.018	0.02	0.025	0.025	
11:20:00 AM	0.017	0.018	0.019	0.023	0.023	
11:21:00 AM	0.016	0.016	0.017	0.02	0.02	
11:22:00 AM	0.015	0.015	0.016	0.019	0.019	
11:23:00 AM	0.014	0.014	0.015	0.017	0.017	
11:24:00 AM	0.013	0.014	0.014	0.015	0.015	
11:25:00 AM	0.012	0.013	0.013	0.014	0.014	
11:26:00 AM	0.017	0.017	0.019	0.021	0.021	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/8/2014
Test Name	MANUAL_002
Test Start Time	11:02:07 AM
Test Start Date	10/8/2014
Test Length [D:H:M]	0:05:05
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.011
PM1 Minimum [mg/m3]	0.005
PM1 Maximum [mg/m3]	0.038
PM1 TWA [mg/m3]	0.007
PM2.5 Average [mg/m3]	0.012
PM2.5 Minimum [mg/m3]	0.006
PM2.5 Maximum [mg/m3]	0.038
PM2.5 TWA [mg/m3]	0.008
PM4 Average [mg/m3]	0.013
PM4 Minimum [mg/m3]	0.007
PM4 Maximum [mg/m3]	0.04
PM4 TWA [mg/m3]	0.008
PM10 Average [mg/m3]	0.015
PM10 Minimum [mg/m3]	0.007
PM10 Maximum [mg/m3]	0.073
PM10 TWA [mg/m3]	0.009
TOTAL Average [mg/m3]	0.016
TOTAL Minimum [mg/m3]	0.007
TOTAL Maximum [mg/m3]	0.101
TOTAL TWA [mg/m3]	0.01
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	305

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg/m3]	Alarms	Difference
							-0.018
11:02:00 AM	0.014	0.015	0.017	0.02	0.02		0.005
11:03:00 AM	0.013	0.014	0.015	0.017	0.017		-0.006
11:04:00 AM	0.013	0.013	0.014	0.016	0.016		-0.01
11:05:00 AM	0.012	0.013	0.013	0.016	0.016		-0.294
11:06:00 AM	0.012	0.013	0.014	0.016	0.016		0.001
11:07:00 AM	0.011	0.012	0.012	0.013	0.013		-0.005
11:08:00 AM	0.014	0.015	0.015	0.017	0.018		-0.003
11:09:00 AM	0.023	0.024	0.025	0.027	0.028		0.011
11:10:00 AM	0.015	0.016	0.016	0.018	0.019		0.007
11:11:00 AM	0.013	0.014	0.015	0.017	0.017		0
11:12:00 AM	0.014	0.015	0.016	0.017	0.017		-0.004
11:13:00 AM	0.012	0.013	0.014	0.014	0.014		-0.007
11:14:00 AM	0.013	0.013	0.014	0.015	0.016		-0.006
11:15:00 AM	0.012	0.012	0.013	0.014	0.014		-0.001
11:16:00 AM	0.011	0.012	0.012	0.013	0.013		-0.004
11:17:00 AM	0.012	0.013	0.014	0.014	0.015		-0.002
11:18:00 AM	0.013	0.014	0.015	0.017	0.017		-0.002
11:19:00 AM	0.012	0.013	0.014	0.015	0.015		-0.01
11:20:00 AM	0.013	0.014	0.015	0.016	0.016		-0.007
11:21:00 AM	0.012	0.013	0.014	0.015	0.015		-0.005
11:22:00 AM	0.011	0.012	0.012	0.013	0.014		-0.005
11:23:00 AM	0.011	0.012	0.012	0.013	0.013		-0.004
11:24:00 AM	0.011	0.012	0.013	0.013	0.013		-0.002
11:25:00 AM	0.012	0.012	0.013	0.014	0.014		0
11:26:00 AM	0.012	0.013	0.013	0.014	0.014		-0.007
							-0.014
							-0.011

11:27:00 AM	0.022	0.023	0.025	0.03	0.03	11:27:00 AM	0.014	0.015	0.015	0.016	0.016	-0.001
11:28:00 AM	0.019	0.02	0.022	0.025	0.026	11:28:00 AM	0.013	0.014	0.014	0.015	0.015	-0.004
11:29:00 AM	0.012	0.013	0.013	0.015	0.015	11:29:00 AM	0.012	0.012	0.013	0.014	0.014	-0.006
11:30:00 AM	0.014	0.015	0.015	0.018	0.018	11:30:00 AM	0.012	0.013	0.013	0.014	0.014	-0.004
11:31:00 AM	0.016	0.016	0.017	0.021	0.022	11:31:00 AM	0.014	0.015	0.015	0.016	0.016	-0.005
11:32:00 AM	0.014	0.015	0.015	0.018	0.018	11:32:00 AM	0.012	0.013	0.014	0.014	0.014	-0.024
11:33:00 AM	0.014	0.015	0.016	0.017	0.018	11:33:00 AM	0.011	0.012	0.012	0.013	0.013	-0.009
11:34:00 AM	0.027	0.028	0.031	0.038	0.038	11:34:00 AM	0.012	0.012	0.013	0.013	0.014	-0.008
11:35:00 AM	0.017	0.018	0.019	0.023	0.023	11:35:00 AM	0.012	0.013	0.013	0.014	0.014	-0.002
11:36:00 AM	0.018	0.019	0.021	0.025	0.025	11:36:00 AM	0.014	0.015	0.015	0.017	0.017	-0.004
11:37:00 AM	0.013	0.013	0.014	0.015	0.015	11:37:00 AM	0.011	0.012	0.012	0.013	0.013	-0.004
11:38:00 AM	0.013	0.013	0.014	0.016	0.016	11:38:00 AM	0.011	0.012	0.012	0.012	0.012	-0.004
11:39:00 AM	0.014	0.015	0.016	0.017	0.017	11:39:00 AM	0.011	0.012	0.012	0.013	0.013	-0.002
11:40:00 AM	0.014	0.015	0.016	0.018	0.018	11:40:00 AM	0.012	0.012	0.012	0.013	0.014	-0.001
11:41:00 AM	0.013	0.014	0.015	0.015	0.015	11:41:00 AM	0.012	0.012	0.013	0.013	0.013	-0.006
11:42:00 AM	0.012	0.012	0.013	0.014	0.014	11:42:00 AM	0.011	0.012	0.012	0.013	0.013	-0.003
11:43:00 AM	0.015	0.016	0.017	0.019	0.019	11:43:00 AM	0.012	0.012	0.013	0.013	0.013	-0.005
11:44:00 AM	0.013	0.014	0.014	0.017	0.017	11:44:00 AM	0.013	0.014	0.014	0.014	0.014	-0.001
11:45:00 AM	0.015	0.015	0.017	0.018	0.018	11:45:00 AM	0.011	0.012	0.012	0.013	0.013	-0.004
11:46:00 AM	0.013	0.013	0.014	0.015	0.015	11:46:00 AM	0.012	0.013	0.013	0.014	0.014	-0.003
11:47:00 AM	0.014	0.015	0.015	0.018	0.018	11:47:00 AM	0.012	0.013	0.013	0.014	0.014	-0.001
11:48:00 AM	0.014	0.014	0.015	0.016	0.016	11:48:00 AM	0.012	0.012	0.013	0.013	0.013	-0.002
11:49:00 AM	0.013	0.013	0.013	0.014	0.014	11:49:00 AM	0.012	0.012	0.012	0.013	0.013	-0.002
11:50:00 AM	0.014	0.014	0.015	0.016	0.016	11:50:00 AM	0.012	0.013	0.014	0.014	0.014	0.001
11:51:00 AM	0.015	0.015	0.016	0.017	0.017	11:51:00 AM	0.013	0.014	0.014	0.015	0.015	0.001
11:52:00 AM	0.013	0.013	0.014	0.015	0.015	11:52:00 AM	0.013	0.014	0.015	0.016	0.016	-0.014
11:53:00 AM	0.015	0.016	0.016	0.018	0.018	11:53:00 AM	0.015	0.016	0.017	0.018	0.019	-0.016
11:54:00 AM	0.023	0.024	0.025	0.029	0.029	11:54:00 AM	0.013	0.014	0.014	0.015	0.015	0.004
11:55:00 AM	0.023	0.023	0.025	0.032	0.032	11:55:00 AM	0.014	0.014	0.015	0.016	0.016	-0.018
11:56:00 AM	0.018	0.019	0.02	0.025	0.025	11:56:00 AM	0.02	0.022	0.023	0.029	0.029	-0.019
11:57:00 AM	0.023	0.024	0.026	0.034	0.035	11:57:00 AM	0.014	0.015	0.015	0.017	0.017	-0.015
11:58:00 AM	0.023	0.024	0.027	0.035	0.035	11:58:00 AM	0.014	0.015	0.016	0.016	0.016	-0.009
11:59:00 AM	0.021	0.022	0.024	0.03	0.03	11:59:00 AM	0.014	0.014	0.015	0.015	0.015	-0.004
12:00:00 PM	0.018	0.019	0.02	0.025	0.026	12:00:00 PM	0.014	0.014	0.015	0.015	0.017	-0.007
12:01:00 PM	0.015	0.016	0.016	0.018	0.018	12:01:00 PM	0.012	0.013	0.013	0.014	0.014	-0.003
12:02:00 PM	0.018	0.018	0.019	0.021	0.021	12:02:00 PM	0.013	0.013	0.014	0.014	0.014	-0.005
12:03:00 PM	0.014	0.015	0.016	0.017	0.017	12:03:00 PM	0.013	0.013	0.014	0.014	0.014	-0.002
12:04:00 PM	0.015	0.016	0.017	0.019	0.019	12:04:00 PM	0.013	0.013	0.013	0.014	0.014	0.003
12:05:00 PM	0.015	0.016	0.017	0.018	0.018	12:05:00 PM	0.015	0.015	0.015	0.016	0.016	-0.006
12:06:00 PM	0.017	0.017	0.018	0.019	0.019	12:06:00 PM	0.02	0.021	0.021	0.022	0.022	-0.008
12:07:00 PM	0.019	0.019	0.02	0.022	0.022	12:07:00 PM	0.014	0.014	0.015	0.015	0.016	-0.007
12:08:00 PM	0.019	0.02	0.021	0.024	0.024	12:08:00 PM	0.013	0.014	0.015	0.016	0.016	-0.014
12:09:00 PM	0.016	0.017	0.018	0.02	0.02	12:09:00 PM	0.012	0.012	0.012	0.013	0.013	-0.001
12:10:00 PM	0.02	0.021	0.023	0.027	0.027	12:10:00 PM	0.012	0.012	0.012	0.013	0.013	-0.003
12:11:00 PM	0.012	0.013	0.013	0.014	0.014	12:11:00 PM	0.012	0.013	0.013	0.013	0.013	-0.002
12:12:00 PM	0.015	0.015	0.016	0.018	0.018	12:12:00 PM	0.013	0.014	0.014	0.015	0.015	-0.008
12:13:00 PM	0.015	0.016	0.016	0.019	0.019	12:13:00 PM	0.014	0.015	0.016	0.017	0.017	-0.01
12:14:00 PM	0.017	0.018	0.019	0.021	0.022	12:14:00 PM	0.013	0.013	0.014	0.014	0.014	-0.004
12:15:00 PM	0.017	0.018	0.019	0.023	0.023	12:15:00 PM	0.012	0.013	0.013	0.013	0.013	0
12:16:00 PM	0.015	0.015	0.016	0.017	0.017	12:16:00 PM	0.012	0.013	0.013	0.013	0.013	-0.001
12:17:00 PM	0.013	0.013	0.013	0.014	0.014	12:17:00 PM	0.012	0.013	0.013	0.014	0.014	-0.001
12:18:00 PM	0.014	0.014	0.015	0.016	0.016	12:18:00 PM	0.013	0.014	0.014	0.015	0.015	-0.002
12:19:00 PM	0.014	0.015	0.015	0.016	0.016	12:19:00 PM	0.013	0.013	0.014	0.014	0.015	-0.002
12:20:00 PM	0.018	0.018	0.019	0.019	0.019	12:20:00 PM	0.014	0.015	0.015	0.016	0.017	-0.005
12:21:00 PM	0.015	0.015	0.016	0.017	0.017	12:21:00 PM	0.013	0.014	0.014	0.015	0.015	-0.009
12:22:00 PM	0.016	0.016	0.017	0.02	0.02	12:22:00 PM	0.013	0.014	0.014	0.015	0.015	-0.006
12:23:00 PM	0.019	0.019	0.02	0.023	0.023	12:23:00 PM	0.012	0.013	0.013	0.014	0.014	0.001
12:24:00 PM	0.018	0.018	0.019	0.02	0.02	12:24:00 PM	0.012	0.013	0.013	0.014	0.014	0.003
12:25:00 PM	0.017	0.017	0.018	0.019	0.019	12:25:00 PM	0.015	0.016	0.017	0.019	0.02	-0.006
12:26:00 PM	0.014	0.014	0.015	0.016	0.016	12:26:00 PM	0.015	0.017	0.017	0.019	0.019	-0.005
12:27:00 PM	0.017	0.018	0.019	0.021	0.021	12:27:00 PM	0.013	0.013	0.014	0.014	0.015	-0.003
12:28:00 PM	0.016	0.016	0.017	0.019	0.019	12:28:00 PM	0.013	0.013	0.014	0.014	0.014	-0.008
12:29:00 PM	0.016	0.016	0.017	0.019	0.019	12:29:00 PM	0.014	0.014	0.015	0.016	0.016	-0.024
12:30:00 PM	0.018	0.018	0.02	0.021	0.021	12:30:00 PM	0.012	0.012	0.013	0.013	0.013	0.001
12:31:00 PM	0.026	0.028	0.03	0.036	0.036	12:31:00 PM	0.011	0.012	0.012	0.012	0.012	0

12:32:00 PM	0.013	0.014	0.014	0.015	0.016	12:32:00 PM	0.013	0.014	0.015	0.017	0.017	-0.008
12:33:00 PM	0.016	0.017	0.018	0.019	0.019	12:33:00 PM	0.014	0.015	0.016	0.018	0.019	-0.006
12:34:00 PM	0.016	0.016	0.018	0.021	0.021	12:34:00 PM	0.012	0.013	0.013	0.013	0.013	-0.002
12:35:00 PM	0.015	0.015	0.016	0.019	0.019	12:35:00 PM	0.012	0.013	0.013	0.013	0.013	-0.004
12:36:00 PM	0.016	0.017	0.018	0.02	0.02	12:36:00 PM	0.014	0.015	0.016	0.018	0.018	-0.003
12:37:00 PM	0.015	0.016	0.017	0.019	0.02	12:37:00 PM	0.014	0.014	0.015	0.016	0.016	0.003
12:38:00 PM	0.014	0.014	0.015	0.017	0.017	12:38:00 PM	0.012	0.013	0.013	0.014	0.014	-0.003
12:39:00 PM	0.014	0.015	0.015	0.018	0.018	12:39:00 PM	0.017	0.018	0.019	0.021	0.021	-0.006
12:40:00 PM	0.017	0.018	0.019	0.021	0.021	12:40:00 PM	0.013	0.014	0.015	0.017	0.018	-0.015
12:41:00 PM	0.016	0.017	0.018	0.021	0.021	12:41:00 PM	0.013	0.013	0.014	0.015	0.015	-0.014
12:42:00 PM	0.02	0.021	0.023	0.027	0.027	12:42:00 PM	0.011	0.012	0.012	0.012	0.012	-0.001
12:43:00 PM	0.017	0.018	0.019	0.024	0.024	12:43:00 PM	0.009	0.009	0.01	0.01	0.01	-0.004
12:44:00 PM	0.013	0.013	0.014	0.015	0.015	12:44:00 PM	0.011	0.012	0.012	0.013	0.014	0.001
12:45:00 PM	0.013	0.013	0.014	0.016	0.016	12:45:00 PM	0.011	0.011	0.012	0.012	0.012	-0.002
12:46:00 PM	0.016	0.016	0.016	0.018	0.018	12:46:00 PM	0.015	0.017	0.018	0.019	0.019	-0.001
12:47:00 PM	0.012	0.012	0.013	0.015	0.015	12:47:00 PM	0.012	0.013	0.013	0.013	0.013	-0.003
12:48:00 PM	0.014	0.015	0.015	0.017	0.017	12:48:00 PM	0.012	0.013	0.014	0.015	0.016	-0.003
12:49:00 PM	0.015	0.016	0.017	0.018	0.018	12:49:00 PM	0.012	0.013	0.013	0.014	0.015	-0.01
12:50:00 PM	0.015	0.016	0.016	0.019	0.019	12:50:00 PM	0.012	0.013	0.013	0.016	0.016	-0.009
12:51:00 PM	0.016	0.017	0.018	0.022	0.022	12:51:00 PM	0.009	0.01	0.01	0.011	0.012	0
12:52:00 PM	0.015	0.016	0.017	0.02	0.02	12:52:00 PM	0.009	0.01	0.01	0.011	0.011	0.005
12:53:00 PM	0.012	0.012	0.013	0.013	0.013	12:53:00 PM	0.011	0.011	0.012	0.013	0.013	-0.008
12:54:00 PM	0.012	0.012	0.012	0.013	0.013	12:54:00 PM	0.014	0.014	0.015	0.017	0.018	-0.003
12:55:00 PM	0.017	0.018	0.019	0.023	0.023	12:55:00 PM	0.011	0.012	0.013	0.015	0.015	-0.009
12:56:00 PM	0.018	0.019	0.02	0.024	0.024	12:56:00 PM	0.014	0.015	0.016	0.019	0.021	-0.001
12:57:00 PM	0.017	0.018	0.019	0.024	0.024	12:57:00 PM	0.011	0.012	0.013	0.015	0.015	-0.01
12:58:00 PM	0.012	0.012	0.012	0.013	0.013	12:58:00 PM	0.01	0.01	0.011	0.012	0.012	-0.004
12:59:00 PM	0.017	0.018	0.019	0.022	0.022	12:59:00 PM	0.01	0.011	0.011	0.012	0.012	-0.019
1:00:00 PM	0.016	0.016	0.017	0.019	0.019	1:00:00 PM	0.012	0.013	0.013	0.014	0.015	-0.022
1:01:00 PM	0.024	0.026	0.029	0.033	0.033	1:01:00 PM	0.011	0.012	0.013	0.014	0.014	-0.002
1:02:00 PM	0.024	0.026	0.028	0.032	0.032	1:02:00 PM	0.009	0.009	0.01	0.01	0.01	0
1:03:00 PM	0.015	0.015	0.016	0.018	0.018	1:03:00 PM	0.011	0.012	0.013	0.016	0.016	-0.005
1:04:00 PM	0.014	0.014	0.015	0.016	0.016	1:04:00 PM	0.011	0.012	0.013	0.015	0.016	-0.004
1:05:00 PM	0.016	0.017	0.018	0.021	0.021	1:05:00 PM	0.011	0.013	0.014	0.016	0.016	-0.006
1:06:00 PM	0.014	0.014	0.015	0.018	0.018	1:06:00 PM	0.011	0.012	0.012	0.014	0.014	-0.004
1:07:00 PM	0.014	0.015	0.016	0.018	0.018	1:07:00 PM	0.01	0.011	0.011	0.012	0.012	-0.003
1:08:00 PM	0.016	0.016	0.018	0.02	0.02	1:08:00 PM	0.011	0.012	0.013	0.015	0.016	-0.009
1:09:00 PM	0.016	0.017	0.018	0.021	0.021	1:09:00 PM	0.013	0.015	0.016	0.018	0.018	-0.013
1:10:00 PM	0.017	0.017	0.018	0.021	0.021	1:10:00 PM	0.01	0.011	0.012	0.012	0.012	-0.004
1:11:00 PM	0.018	0.018	0.02	0.024	0.024	1:11:00 PM	0.009	0.01	0.01	0.011	0.011	0.001
1:12:00 PM	0.015	0.015	0.016	0.019	0.019	1:12:00 PM	0.012	0.013	0.014	0.015	0.015	0.004
1:13:00 PM	0.014	0.014	0.015	0.016	0.016	1:13:00 PM	0.012	0.013	0.014	0.016	0.017	0.003
1:14:00 PM	0.013	0.014	0.014	0.016	0.016	1:14:00 PM	0.014	0.015	0.017	0.02	0.02	-0.011
1:15:00 PM	0.013	0.014	0.014	0.017	0.017	1:15:00 PM	0.014	0.015	0.017	0.02	0.02	-0.025
1:16:00 PM	0.016	0.016	0.018	0.021	0.021	1:16:00 PM	0.005	0.006	0.007	0.009	0.01	-0.01
1:17:00 PM	0.025	0.026	0.029	0.037	0.037	1:17:00 PM	0.009	0.01	0.01	0.012	0.012	-0.016
1:18:00 PM	0.016	0.017	0.018	0.021	0.021	1:18:00 PM	0.009	0.009	0.01	0.011	0.011	-0.017
1:19:00 PM	0.018	0.018	0.02	0.024	0.024	1:19:00 PM	0.005	0.006	0.007	0.008	0.008	-0.014
1:20:00 PM	0.019	0.02	0.022	0.027	0.027	1:20:00 PM	0.009	0.009	0.01	0.01	0.01	-0.012
1:21:00 PM	0.017	0.018	0.019	0.024	0.024	1:21:00 PM	0.009	0.009	0.01	0.01	0.01	-0.009
1:22:00 PM	0.018	0.018	0.02	0.023	0.023	1:22:00 PM	0.009	0.01	0.011	0.011	0.011	-0.01
1:23:00 PM	0.016	0.016	0.017	0.02	0.02	1:23:00 PM	0.009	0.01	0.01	0.011	0.011	-0.006
1:24:00 PM	0.017	0.017	0.018	0.02	0.02	1:24:00 PM	0.008	0.009	0.01	0.01	0.01	-0.009
1:25:00 PM	0.015	0.015	0.016	0.018	0.018	1:25:00 PM	0.009	0.01	0.011	0.011	0.012	-0.007
1:26:00 PM	0.015	0.016	0.017	0.019	0.019	1:26:00 PM	0.008	0.008	0.009	0.009	0.01	-0.005
1:27:00 PM	0.014	0.014	0.015	0.017	0.017	1:27:00 PM	0.008	0.008	0.009	0.009	0.01	-0.004
1:28:00 PM	0.012	0.013	0.013	0.014	0.014	1:28:00 PM	0.008	0.008	0.009	0.009	0.009	-0.005
1:29:00 PM	0.013	0.013	0.014	0.015	0.015	1:29:00 PM	0.009	0.009	0.01	0.011	0.011	-0.003
1:30:00 PM	0.013	0.013	0.014	0.015	0.015	1:30:00 PM	0.008	0.008	0.009	0.01	0.01	0.001
1:31:00 PM	0.015	0.015	0.016	0.019	0.019	1:31:00 PM	0.013	0.014	0.015	0.016	0.016	0.003
1:32:00 PM	0.012	0.012	0.013	0.014	0.014	1:32:00 PM	0.01	0.011	0.012	0.014	0.015	-0.006
1:33:00 PM	0.012	0.012	0.013	0.014	0.014	1:33:00 PM	0.011	0.012	0.014	0.017	0.017	-0.008
1:34:00 PM	0.014	0.014	0.015	0.02	0.02	1:34:00 PM	0.009	0.01	0.011	0.013	0.014	-0.001
1:35:00 PM	0.014	0.015	0.016	0.019	0.019	1:35:00 PM	0.008	0.009	0.01	0.011	0.011	-0.002
1:36:00 PM	0.012	0.012	0.013	0.013	0.013	1:36:00 PM	0.009	0.009	0.01	0.012	0.012	-0.001

1:37:00 PM	0.012	0.012	0.012	0.013	0.013	1:37:00 PM	0.008	0.009	0.009	0.011	0.011	-0.004
1:38:00 PM	0.013	0.013	0.013	0.014	0.014	1:38:00 PM	0.01	0.011	0.012	0.013	0.013	-0.003
1:39:00 PM	0.012	0.012	0.012	0.013	0.013	1:39:00 PM	0.008	0.008	0.008	0.009	0.009	0.001
1:40:00 PM	0.012	0.012	0.012	0.013	0.013	1:40:00 PM	0.008	0.009	0.009	0.01	0.01	-0.004
1:41:00 PM	0.012	0.012	0.013	0.014	0.014	1:41:00 PM	0.01	0.011	0.012	0.014	0.015	-0.009
1:42:00 PM	0.012	0.012	0.012	0.013	0.013	1:42:00 PM	0.008	0.008	0.008	0.009	0.009	-0.005
1:43:00 PM	0.013	0.014	0.014	0.016	0.016	1:43:00 PM	0.006	0.007	0.007	0.007	0.007	-0.002
1:44:00 PM	0.012	0.012	0.013	0.014	0.014	1:44:00 PM	0.008	0.008	0.008	0.009	0.009	-0.004
1:45:00 PM	0.013	0.013	0.014	0.014	0.014	1:45:00 PM	0.01	0.011	0.011	0.012	0.012	-0.003
1:46:00 PM	0.011	0.011	0.011	0.012	0.012	1:46:00 PM	0.007	0.007	0.008	0.008	0.008	0
1:47:00 PM	0.011	0.011	0.012	0.012	0.012	1:47:00 PM	0.007	0.008	0.008	0.008	0.009	0.01
1:48:00 PM	0.011	0.011	0.012	0.012	0.012	1:48:00 PM	0.009	0.01	0.011	0.012	0.012	0.006
1:49:00 PM	0.011	0.011	0.012	0.012	0.012	1:49:00 PM	0.013	0.014	0.016	0.021	0.022	0.002
1:50:00 PM	0.012	0.012	0.012	0.013	0.013	1:50:00 PM	0.012	0.013	0.014	0.018	0.019	-0.006
1:51:00 PM	0.011	0.011	0.011	0.012	0.012	1:51:00 PM	0.01	0.011	0.011	0.014	0.014	-0.01
1:52:00 PM	0.013	0.013	0.014	0.015	0.015	1:52:00 PM	0.008	0.008	0.008	0.009	0.009	-0.018
1:53:00 PM	0.015	0.015	0.016	0.018	0.018	1:53:00 PM	0.007	0.007	0.008	0.008	0.008	-0.007
1:54:00 PM	0.019	0.02	0.022	0.027	0.027	1:54:00 PM	0.008	0.008	0.008	0.009	0.009	-0.008
1:55:00 PM	0.012	0.013	0.013	0.014	0.014	1:55:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
1:56:00 PM	0.014	0.014	0.015	0.017	0.017	1:56:00 PM	0.007	0.008	0.008	0.009	0.009	0
1:57:00 PM	0.012	0.013	0.013	0.014	0.014	1:57:00 PM	0.007	0.007	0.007	0.008	0.008	0.016
1:58:00 PM	0.014	0.014	0.015	0.017	0.017	1:58:00 PM	0.011	0.012	0.013	0.017	0.017	-0.003
1:59:00 PM	0.014	0.015	0.015	0.016	0.016	1:59:00 PM	0.018	0.021	0.024	0.031	0.032	-0.032
2:00:00 PM	0.015	0.015	0.016	0.019	0.019	2:00:00 PM	0.01	0.012	0.013	0.016	0.016	-0.018
2:01:00 PM	0.024	0.025	0.029	0.039	0.039	2:01:00 PM	0.006	0.007	0.007	0.007	0.007	-0.007
2:02:00 PM	0.019	0.019	0.022	0.026	0.026	2:02:00 PM	0.007	0.007	0.007	0.008	0.008	-0.234
2:03:00 PM	0.014	0.014	0.015	0.016	0.016	2:03:00 PM	0.007	0.008	0.008	0.009	0.009	-0.469
2:04:00 PM	0.163	0.176	0.202	0.243	0.243	2:04:00 PM	0.008	0.008	0.008	0.009	0.009	-0.007
2:05:00 PM	0.295	0.325	0.386	0.487	0.487	2:05:00 PM	0.016	0.017	0.017	0.018	0.018	-0.011
2:06:00 PM	0.016	0.016	0.017	0.018	0.018	2:06:00 PM	0.009	0.01	0.01	0.011	0.011	-0.016
2:07:00 PM	0.019	0.02	0.021	0.024	0.024	2:07:00 PM	0.01	0.011	0.011	0.013	0.013	-0.009
2:08:00 PM	0.021	0.022	0.023	0.028	0.028	2:08:00 PM	0.009	0.01	0.011	0.012	0.012	-0.01
2:09:00 PM	0.018	0.018	0.02	0.023	0.023	2:09:00 PM	0.01	0.011	0.012	0.013	0.014	-0.039
2:10:00 PM	0.02	0.021	0.022	0.027	0.027	2:10:00 PM	0.011	0.012	0.013	0.016	0.017	-0.026
2:11:00 PM	0.031	0.033	0.037	0.05	0.051	2:11:00 PM	0.009	0.01	0.01	0.012	0.012	-0.01
2:12:00 PM	0.025	0.026	0.029	0.04	0.04	2:12:00 PM	0.009	0.01	0.011	0.013	0.014	-0.002
2:13:00 PM	0.017	0.018	0.02	0.024	0.024	2:13:00 PM	0.011	0.012	0.013	0.014	0.014	0.004
2:14:00 PM	0.013	0.013	0.013	0.015	0.015	2:14:00 PM	0.009	0.01	0.011	0.012	0.013	-0.009
2:15:00 PM	0.012	0.013	0.013	0.014	0.014	2:15:00 PM	0.013	0.015	0.016	0.018	0.018	-0.011
2:16:00 PM	0.015	0.015	0.016	0.019	0.019	2:16:00 PM	0.008	0.008	0.009	0.01	0.01	-0.004
2:17:00 PM	0.017	0.018	0.019	0.022	0.022	2:17:00 PM	0.009	0.01	0.01	0.011	0.011	0.005
2:18:00 PM	0.015	0.015	0.016	0.018	0.018	2:18:00 PM	0.01	0.011	0.012	0.014	0.014	-0.006
2:19:00 PM	0.012	0.013	0.013	0.015	0.015	2:19:00 PM	0.012	0.014	0.015	0.018	0.02	-0.015
2:20:00 PM	0.018	0.018	0.02	0.024	0.024	2:20:00 PM	0.012	0.014	0.015	0.017	0.018	-0.005
2:21:00 PM	0.02	0.021	0.023	0.032	0.032	2:21:00 PM	0.012	0.013	0.014	0.017	0.017	-0.008
2:22:00 PM	0.016	0.016	0.017	0.022	0.022	2:22:00 PM	0.012	0.013	0.014	0.017	0.017	-0.013
2:23:00 PM	0.017	0.018	0.019	0.023	0.023	2:23:00 PM	0.01	0.011	0.012	0.014	0.015	-0.012
2:24:00 PM	0.02	0.021	0.023	0.03	0.03	2:24:00 PM	0.012	0.013	0.014	0.017	0.017	-0.011
2:25:00 PM	0.018	0.018	0.02	0.024	0.024	2:25:00 PM	0.009	0.009	0.01	0.011	0.012	-0.011
2:26:00 PM	0.015	0.016	0.017	0.021	0.021	2:26:00 PM	0.008	0.009	0.009	0.01	0.01	-0.004
2:27:00 PM	0.017	0.018	0.019	0.021	0.022	2:27:00 PM	0.009	0.01	0.011	0.011	0.011	-0.011
2:28:00 PM	0.014	0.015	0.015	0.016	0.016	2:28:00 PM	0.009	0.01	0.011	0.012	0.012	-0.012
2:29:00 PM	0.018	0.019	0.02	0.024	0.024	2:29:00 PM	0.01	0.011	0.012	0.013	0.013	-0.01
2:30:00 PM	0.017	0.018	0.019	0.022	0.022	2:30:00 PM	0.008	0.009	0.009	0.01	0.01	-0.013
2:31:00 PM	0.015	0.016	0.017	0.019	0.019	2:31:00 PM	0.008	0.008	0.009	0.009	0.009	0.033
2:32:00 PM	0.017	0.017	0.018	0.022	0.022	2:32:00 PM	0.008	0.008	0.009	0.009	0.009	0.033
2:33:00 PM	0.013	0.013	0.014	0.015	0.015	2:33:00 PM	0.018	0.02	0.021	0.034	0.048	0.011
2:34:00 PM	0.012	0.012	0.012	0.014	0.014	2:34:00 PM	0.017	0.019	0.02	0.036	0.047	0.006
2:35:00 PM	0.012	0.013	0.013	0.015	0.015	2:35:00 PM	0.01	0.011	0.012	0.019	0.026	0.021
2:36:00 PM	0.011	0.011	0.011	0.012	0.012	2:36:00 PM	0.01	0.011	0.011	0.015	0.018	0.004
2:37:00 PM	0.011	0.011	0.011	0.012	0.012	2:37:00 PM	0.015	0.016	0.017	0.024	0.033	0.005
2:38:00 PM	0.012	0.013	0.013	0.014	0.015	2:38:00 PM	0.009	0.01	0.01	0.015	0.019	0.041
2:39:00 PM	0.013	0.014	0.014	0.016	0.016	2:39:00 PM	0.01	0.011	0.012	0.016	0.021	0.016
2:40:00 PM	0.01	0.011	0.011	0.011	0.011	2:40:00 PM	0.02	0.021	0.024	0.038	0.052	-0.003
2:41:00 PM	0.011	0.011	0.012	0.013	0.013	2:41:00 PM	0.013	0.014	0.015	0.022	0.029	0.008

2:42:00 PM	0.015	0.015	0.016	0.019	0.019
2:43:00 PM	0.012	0.013	0.013	0.015	0.015
2:44:00 PM	0.011	0.011	0.011	0.012	0.012
2:45:00 PM	0.01	0.011	0.011	0.011	0.011
2:46:00 PM	0.011	0.011	0.011	0.011	0.011
2:47:00 PM	0.011	0.011	0.011	0.011	0.011
2:48:00 PM	0.011	0.011	0.012	0.013	0.013
2:49:00 PM	0.013	0.013	0.013	0.015	0.015
2:50:00 PM	0.012	0.012	0.013	0.015	0.015
2:51:00 PM	0.011	0.011	0.012	0.012	0.013
2:52:00 PM	0.011	0.011	0.012	0.012	0.012
2:53:00 PM	0.011	0.011	0.011	0.012	0.012
2:54:00 PM	0.018	0.018	0.02	0.024	0.024
2:55:00 PM	0.013	0.013	0.013	0.016	0.016
2:56:00 PM	0.014	0.014	0.015	0.017	0.017
2:57:00 PM	0.02	0.021	0.022	0.027	0.027
2:58:00 PM	0.013	0.014	0.014	0.016	0.016
2:59:00 PM	0.014	0.014	0.015	0.017	0.017
3:00:00 PM	0.011	0.011	0.012	0.012	0.012
3:01:00 PM	0.011	0.012	0.012	0.013	0.013
3:02:00 PM	0.011	0.011	0.011	0.012	0.012
3:03:00 PM	0.016	0.016	0.018	0.02	0.02
3:04:00 PM	0.02	0.021	0.023	0.026	0.026
3:05:00 PM	0.014	0.015	0.016	0.018	0.018
3:06:00 PM	0.015	0.015	0.017	0.02	0.02
3:07:00 PM	0.014	0.014	0.015	0.017	0.017
3:08:00 PM	0.011	0.011	0.012	0.012	0.012
3:09:00 PM	0.012	0.012	0.012	0.013	0.013
3:10:00 PM	0.01	0.01	0.011	0.011	0.011
3:11:00 PM	0.011	0.011	0.011	0.012	0.012
3:12:00 PM	0.01	0.01	0.011	0.011	0.011
3:13:00 PM	0.01	0.011	0.011	0.011	0.011
3:14:00 PM	0.011	0.011	0.011	0.012	0.012
3:15:00 PM	0.011	0.011	0.011	0.012	0.012
3:16:00 PM	0.011	0.011	0.012	0.013	0.013
3:17:00 PM	0.012	0.012	0.013	0.014	0.014
3:18:00 PM	0.012	0.012	0.013	0.014	0.014
3:19:00 PM	0.016	0.016	0.018	0.022	0.022
3:20:00 PM	0.018	0.019	0.02	0.024	0.024
3:21:00 PM	0.012	0.012	0.013	0.013	0.013
3:22:00 PM	0.011	0.011	0.011	0.012	0.012
3:23:00 PM	0.011	0.011	0.011	0.012	0.012
3:24:00 PM	0.011	0.011	0.011	0.012	0.012
3:25:00 PM	0.012	0.012	0.012	0.013	0.013
3:26:00 PM	0.012	0.012	0.013	0.013	0.013
3:27:00 PM	0.011	0.011	0.011	0.012	0.012
3:28:00 PM	0.014	0.014	0.015	0.017	0.017
3:29:00 PM	0.012	0.012	0.012	0.013	0.013
3:30:00 PM	0.011	0.012	0.012	0.013	0.013
3:31:00 PM	0.011	0.012	0.012	0.013	0.013
3:32:00 PM	0.013	0.013	0.014	0.016	0.016
3:33:00 PM	0.012	0.012	0.013	0.014	0.014
3:34:00 PM	0.012	0.012	0.012	0.014	0.014
3:35:00 PM	0.012	0.012	0.012	0.013	0.013
3:36:00 PM	0.011	0.011	0.011	0.012	0.012
3:37:00 PM	0.011	0.012	0.012	0.014	0.014
3:38:00 PM	0.016	0.016	0.018	0.019	0.019
3:39:00 PM	0.017	0.017	0.018	0.022	0.022
3:40:00 PM	0.013	0.013	0.013	0.014	0.014
3:41:00 PM	0.014	0.015	0.016	0.018	0.018
3:42:00 PM	0.012	0.012	0.013	0.013	0.013
3:43:00 PM	0.013	0.013	0.014	0.016	0.016
3:44:00 PM	0.012	0.012	0.013	0.014	0.014
3:45:00 PM	0.012	0.012	0.012	0.013	0.013
3:46:00 PM	0.012	0.012	0.012	0.013	0.013

2:42:00 PM	0.008	0.009	0.009	0.012	0.016	0.01
2:43:00 PM	0.01	0.011	0.012	0.017	0.023	0.004
2:44:00 PM	0.011	0.011	0.012	0.017	0.022	0.048
2:45:00 PM	0.008	0.009	0.009	0.012	0.015	0.051
2:46:00 PM	0.02	0.022	0.024	0.038	0.059	0.031
2:47:00 PM	0.021	0.023	0.025	0.041	0.062	0.086
2:48:00 PM	0.019	0.021	0.023	0.036	0.044	0.01
2:49:00 PM	0.033	0.035	0.04	0.073	0.101	0.011
2:50:00 PM	0.011	0.012	0.013	0.018	0.025	0.027
2:51:00 PM	0.011	0.011	0.012	0.017	0.024	0.03
2:52:00 PM	0.015	0.016	0.017	0.026	0.039	-0.003
2:53:00 PM	0.016	0.017	0.018	0.028	0.042	0.048
2:54:00 PM	0.011	0.012	0.012	0.018	0.021	-0.004
2:55:00 PM	0.03	0.032	0.033	0.039	0.064	-0.014
2:56:00 PM	0.01	0.011	0.011	0.013	0.013	-0.003
2:57:00 PM	0.009	0.01	0.011	0.013	0.013	-0.002
2:58:00 PM	0.009	0.01	0.011	0.013	0.013	0.004
2:59:00 PM	0.011	0.012	0.013	0.015	0.015	-0.001
3:00:00 PM	0.011	0.012	0.013	0.015	0.016	-0.002
3:01:00 PM	0.009	0.01	0.01	0.012	0.012	-0.01
3:02:00 PM	0.009	0.009	0.009	0.01	0.01	-0.014
3:03:00 PM	0.008	0.009	0.009	0.01	0.01	-0.01
3:04:00 PM	0.008	0.009	0.009	0.011	0.012	-0.01
3:05:00 PM	0.007	0.007	0.008	0.008	0.008	0.022
3:06:00 PM	0.008	0.008	0.008	0.009	0.01	-0.003
3:07:00 PM	0.038	0.038	0.039	0.039	0.039	-0.005
3:08:00 PM	0.007	0.008	0.008	0.009	0.009	-0.004
3:09:00 PM	0.007	0.007	0.008	0.008	0.008	-0.002
3:10:00 PM	0.007	0.007	0.007	0.007	0.007	-0.002
3:11:00 PM	0.008	0.009	0.009	0.01	0.01	-0.001
3:12:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
3:13:00 PM	0.008	0.008	0.009	0.01	0.01	-0.002
3:14:00 PM	0.009	0.009	0.01	0.011	0.011	0.001
3:15:00 PM	0.008	0.009	0.009	0.01	0.01	-0.001
3:16:00 PM	0.01	0.011	0.012	0.013	0.014	0.001
3:17:00 PM	0.009	0.01	0.011	0.013	0.013	-0.006
3:18:00 PM	0.01	0.011	0.012	0.014	0.015	-0.007
3:19:00 PM	0.01	0.012	0.013	0.015	0.016	0
3:20:00 PM	0.011	0.013	0.014	0.017	0.017	0.003
3:21:00 PM	0.01	0.011	0.011	0.013	0.013	-0.001
3:22:00 PM	0.01	0.011	0.012	0.014	0.015	0.004
3:23:00 PM	0.009	0.01	0.01	0.011	0.011	-0.002
3:24:00 PM	0.011	0.012	0.013	0.016	0.016	-0.001
3:25:00 PM	0.009	0.009	0.01	0.011	0.011	0
3:26:00 PM	0.01	0.01	0.011	0.012	0.012	-0.007
3:27:00 PM	0.009	0.01	0.01	0.012	0.012	0
3:28:00 PM	0.008	0.009	0.009	0.01	0.01	0.01
3:29:00 PM	0.009	0.01	0.011	0.013	0.013	0
3:30:00 PM	0.014	0.015	0.017	0.023	0.023	0.005
3:31:00 PM	0.01	0.011	0.011	0.013	0.013	0.001
3:32:00 PM	0.013	0.014	0.016	0.021	0.021	-0.002
3:33:00 PM	0.01	0.011	0.012	0.015	0.015	-0.002
3:34:00 PM	0.009	0.009	0.01	0.011	0.012	0
3:35:00 PM	0.008	0.009	0.009	0.011	0.011	0.002
3:36:00 PM	0.009	0.01	0.011	0.011	0.012	-0.002
3:37:00 PM	0.011	0.012	0.013	0.015	0.016	-0.006
3:38:00 PM	0.012	0.013	0.014	0.017	0.017	-0.002
3:39:00 PM	0.011	0.012	0.013	0.016	0.016	-0.007
3:40:00 PM	0.009	0.01	0.011	0.012	0.012	-0.001
3:41:00 PM	0.009	0.009	0.01	0.011	0.011	-0.004
3:42:00 PM	0.009	0.01	0.01	0.011	0.012	0.009
3:43:00 PM	0.009	0.01	0.01	0.012	0.012	0
3:44:00 PM	0.014	0.015	0.017	0.022	0.023	-0.003
3:45:00 PM	0.01	0.01	0.011	0.012	0.013	-0.007
3:46:00 PM	0.009	0.009	0.01	0.01	0.01	-0.014

3:47:00 PM	0.015	0.015	0.016	0.018	0.018
3:48:00 PM	0.022	0.023	0.025	0.031	0.032
3:49:00 PM	0.019	0.019	0.021	0.027	0.027
3:50:00 PM	0.016	0.017	0.018	0.021	0.022
3:51:00 PM	0.013	0.013	0.014	0.014	0.015
3:52:00 PM	0.012	0.012	0.012	0.012	0.012
3:53:00 PM	0.012	0.012	0.012	0.013	0.013
3:54:00 PM	0.012	0.012	0.012	0.013	0.013
3:55:00 PM	0.012	0.012	0.013	0.013	0.013
3:56:00 PM	0.013	0.013	0.013	0.014	0.014
3:57:00 PM	0.014	0.014	0.015	0.017	0.017
3:58:00 PM	0.016	0.016	0.017	0.02	0.021
3:59:00 PM	0.013	0.013	0.013	0.014	0.014
4:00:00 PM	0.013	0.014	0.014	0.015	0.015
4:01:00 PM	0.016	0.017	0.018	0.02	0.02

3:47:00 PM	0.009	0.009	0.01	0.011	0.011	-0.012
3:48:00 PM	0.012	0.013	0.015	0.017	0.018	-0.008
3:49:00 PM	0.01	0.011	0.012	0.014	0.015	-0.003
3:50:00 PM	0.01	0.011	0.012	0.013	0.014	0.002
3:51:00 PM	0.01	0.01	0.011	0.012	0.012	0.002
3:52:00 PM	0.01	0.011	0.012	0.014	0.014	0.007
3:53:00 PM	0.011	0.012	0.013	0.015	0.015	0.002
3:54:00 PM	0.014	0.015	0.016	0.018	0.02	0.004
3:55:00 PM	0.012	0.013	0.014	0.015	0.015	-0.008
3:56:00 PM	0.013	0.015	0.016	0.017	0.018	-0.012
3:57:00 PM	0.008	0.008	0.008	0.009	0.009	-0.001
3:58:00 PM	0.008	0.008	0.009	0.009	0.009	0.001
3:59:00 PM	0.01	0.011	0.011	0.012	0.013	-0.004
4:00:00 PM	0.012	0.014	0.014	0.016	0.016	0.013
4:01:00 PM	0.012	0.013	0.013	0.016	0.016	0.012
4:02:00 PM	0.011	0.012	0.012	0.013	0.013	0.012
4:03:00 PM	0.01	0.01	0.011	0.012	0.012	0.011
4:04:00 PM	0.01	0.01	0.011	0.012	0.012	0.01
4:05:00 PM	0.009	0.01	0.01	0.011	0.011	
4:06:00 PM	0.008	0.009	0.009	0.01	0.01	

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/9/2014
Test Name	MANUAL_003
Test Start Time	10:53:42 AM
Test Start Date	10/9/2014
Test Length [D:H:M]	0:05:17
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.006
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.2
PM1 TWA [mg/m3]	0.004
PM2.5 Average [mg/m3]	0.006
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.2
PM2.5 TWA [mg/m3]	0.004
PM4 Average [mg/m3]	0.007
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.201
PM4 TWA [mg/m3]	0.005
PM10 Average [mg/m3]	0.011
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	0.299
PM10 TWA [mg/m3]	0.007
TOTAL Average [mg/m3]	0.011
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	0.3
TOTAL TWA [mg/m3]	0.007
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	317

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms
10:53:00 AM	0.007	0.007	0.008	0.015	0.02	
10:54:00 AM	0.006	0.007	0.008	0.017	0.021	
10:55:00 AM	0.004	0.004	0.006	0.01	0.012	
10:56:00 AM	0.006	0.006	0.008	0.011	0.011	
10:57:00 AM	0.003	0.003	0.004	0.006	0.006	
10:58:00 AM	0.002	0.003	0.003	0.005	0.005	
10:59:00 AM	0.001	0.001	0.001	0.003	0.003	
11:00:00 AM	0.002	0.002	0.002	0.004	0.004	
11:01:00 AM	0.001	0.001	0.002	0.003	0.003	
11:02:00 AM	0	0.001	0.001	0.002	0.002	
11:03:00 AM	0	0	0.001	0.001	0.001	
11:04:00 AM	0	0	0	0.002	0.002	
11:05:00 AM	0.004	0.004	0.005	0.008	0.008	
11:06:00 AM	0.004	0.004	0.005	0.007	0.008	
11:07:00 AM	0.007	0.007	0.008	0.012	0.012	
11:08:00 AM	0.009	0.009	0.011	0.014	0.015	
11:09:00 AM	0.001	0.001	0.002	0.004	0.004	
11:10:00 AM	0.001	0.001	0.002	0.002	0.003	
11:11:00 AM	0.001	0.001	0.001	0.002	0.003	
11:12:00 AM	0	0.001	0.001	0.002	0.002	
11:13:00 AM	0.001	0.001	0.002	0.003	0.003	
11:14:00 AM	0.002	0.002	0.002	0.004	0.005	
11:15:00 AM	0.004	0.004	0.005	0.007	0.008	
11:16:00 AM	0.002	0.003	0.004	0.005	0.005	
11:17:00 AM	0.003	0.003	0.004	0.006	0.006	
11:18:00 AM	0.001	0.001	0.002	0.004	0.004	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/9/2014
Test Name	MANUAL_003
Test Start Time	10:55:29 AM
Test Start Date	10/9/2014
Test Length [D:H:M]	0:07:23
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.01
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.032
PM1 TWA [mg/m3]	0.01
PM2.5 Average [mg/m3]	0.011
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.038
PM2.5 TWA [mg/m3]	0.01
PM4 Average [mg/m3]	0.012
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.043
PM4 TWA [mg/m3]	0.011
PM10 Average [mg/m3]	0.013
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	0.057
PM10 TWA [mg/m3]	0.012
TOTAL Average [mg/m3]	0.014
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	0.06
TOTAL TWA [mg/m3]	0.013
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	325

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg/m3]
10:55:00 AM	0.014	0.016	0.017	0.026	0.028
10:56:00 AM	0.009	0.01	0.01	0.012	0.012
10:57:00 AM	0.009	0.01	0.01	0.012	0.012
10:58:00 AM	0.009	0.01	0.01	0.011	0.011
10:59:00 AM	0.009	0.01	0.01	0.011	0.011
11:00:00 AM	0.009	0.009	0.01	0.011	0.011
11:01:00 AM	0.008	0.009	0.009	0.01	0.01
11:02:00 AM	0.008	0.008	0.009	0.009	0.009
11:03:00 AM	0.009	0.01	0.01	0.011	0.011
11:04:00 AM	0.013	0.014	0.015	0.015	0.016
11:05:00 AM	0.014	0.015	0.016	0.019	0.021
11:06:00 AM	0.012	0.012	0.013	0.014	0.015
11:07:00 AM	0.012	0.013	0.013	0.015	0.015
11:08:00 AM	0.009	0.01	0.01	0.011	0.011
11:09:00 AM	0.009	0.01	0.01	0.011	0.011
11:10:00 AM	0.009	0.01	0.01	0.011	0.011
11:11:00 AM	0.009	0.01	0.01	0.011	0.011
11:12:00 AM	0.01	0.01	0.011	0.012	0.012
11:13:00 AM	0.012	0.013	0.014	0.017	0.018
11:14:00 AM	0.011	0.011	0.012	0.013	0.013
11:15:00 AM	0.011	0.012	0.012	0.013	0.013
11:16:00 AM	0.01	0.011	0.011	0.012	0.012
11:17:00 AM	0.009	0.01	0.01	0.01	0.011
11:18:00 AM	0.009	0.01	0.01	0.011	0.011

Alarms	Difference
	-0.02
	-0.021
	0.016
	0.001
	0.006
	0.006
	0.008
	0.007
	0.007
	0.007
	0.01
	0.014
	0.013
	0.007
	0.003
	-0.004
	0.007
	0.008
	0.008
	0.01
	0.015
	0.008
	0.005
	0.007
	0.005
	0.007
	0.011
	0.011

11:19:00 AM	0	0	0	0	0	11:19:00 AM	0.01	0.01	0.011	0.011	0.011	0.01
11:20:00 AM	0	0	0.001	0.002	0.002	11:20:00 AM	0.011	0.011	0.012	0.013	0.013	0.006
11:21:00 AM	0.001	0.001	0.002	0.004	0.004	11:21:00 AM	0.011	0.012	0.012	0.014	0.014	0.004
11:22:00 AM	0.003	0.004	0.005	0.008	0.008	11:22:00 AM	0.011	0.012	0.012	0.013	0.014	0.012
11:23:00 AM	0.004	0.005	0.006	0.011	0.011	11:23:00 AM	0.012	0.013	0.013	0.015	0.015	0.007
11:24:00 AM	0.005	0.006	0.007	0.011	0.011	11:24:00 AM	0.018	0.02	0.021	0.022	0.023	0.007
11:25:00 AM	0.005	0.005	0.007	0.01	0.01	11:25:00 AM	0.014	0.014	0.015	0.017	0.017	0.008
11:26:00 AM	0.001	0.002	0.002	0.005	0.005	11:26:00 AM	0.011	0.011	0.012	0.012	0.012	0.003
11:27:00 AM	0.001	0.002	0.002	0.004	0.004	11:27:00 AM	0.01	0.011	0.011	0.012	0.012	0.004
11:28:00 AM	0.005	0.006	0.006	0.008	0.008	11:28:00 AM	0.01	0.01	0.011	0.011	0.011	0.006
11:29:00 AM	0.005	0.005	0.006	0.007	0.007	11:29:00 AM	0.009	0.01	0.01	0.011	0.011	0.005
11:30:00 AM	0.004	0.005	0.005	0.006	0.006	11:30:00 AM	0.01	0.01	0.011	0.012	0.012	0.003
11:31:00 AM	0.004	0.005	0.005	0.006	0.006	11:31:00 AM	0.01	0.01	0.01	0.011	0.011	-0.19
11:32:00 AM	0.007	0.007	0.008	0.009	0.009	11:32:00 AM	0.01	0.011	0.011	0.012	0.012	-0.056
11:33:00 AM	0.2	0.2	0.201	0.202	0.202	11:33:00 AM	0.01	0.011	0.011	0.012	0.012	-0.004
11:34:00 AM	0.064	0.065	0.065	0.067	0.067	11:34:00 AM	0.01	0.01	0.01	0.011	0.011	-0.006
11:35:00 AM	0.009	0.01	0.012	0.016	0.016	11:35:00 AM	0.01	0.011	0.011	0.012	0.012	0.026
11:36:00 AM	0.009	0.01	0.013	0.017	0.017	11:36:00 AM	0.01	0.01	0.01	0.011	0.011	0.004
11:37:00 AM	0.005	0.006	0.007	0.01	0.01	11:37:00 AM	0.023	0.026	0.03	0.036	0.036	0.009
11:38:00 AM	0.007	0.008	0.009	0.012	0.012	11:38:00 AM	0.012	0.013	0.014	0.016	0.016	0.014
11:39:00 AM	0.001	0.001	0.001	0.003	0.003	11:39:00 AM	0.011	0.011	0.012	0.012	0.012	0.05
11:40:00 AM	0	0	0.001	0.002	0.002	11:40:00 AM	0.013	0.014	0.015	0.016	0.016	0.011
11:41:00 AM	0.004	0.004	0.005	0.007	0.007	11:41:00 AM	0.032	0.038	0.043	0.056	0.057	0
11:42:00 AM	0.004	0.004	0.005	0.009	0.009	11:42:00 AM	0.015	0.016	0.017	0.019	0.02	0.005
11:43:00 AM	0.006	0.007	0.009	0.013	0.014	11:43:00 AM	0.012	0.013	0.013	0.014	0.014	0.005
11:44:00 AM	0.003	0.003	0.004	0.007	0.007	11:44:00 AM	0.01	0.011	0.011	0.012	0.012	0.007
11:45:00 AM	0.003	0.003	0.004	0.007	0.007	11:45:00 AM	0.01	0.011	0.011	0.012	0.012	0.004
11:46:00 AM	0.003	0.004	0.005	0.008	0.008	11:46:00 AM	0.012	0.012	0.013	0.015	0.015	0.013
11:47:00 AM	0.004	0.004	0.005	0.009	0.009	11:47:00 AM	0.011	0.012	0.012	0.013	0.013	0.018
11:48:00 AM	0.001	0.001	0.001	0.002	0.003	11:48:00 AM	0.013	0.014	0.015	0.016	0.016	0.015
11:49:00 AM	0.001	0.002	0.002	0.004	0.004	11:49:00 AM	0.015	0.017	0.018	0.021	0.022	0.017
11:50:00 AM	0.003	0.003	0.004	0.007	0.007	11:50:00 AM	0.016	0.018	0.019	0.022	0.022	0.018
11:51:00 AM	0.003	0.004	0.005	0.007	0.007	11:51:00 AM	0.017	0.018	0.02	0.023	0.024	0.016
11:52:00 AM	0.004	0.004	0.005	0.008	0.008	11:52:00 AM	0.019	0.02	0.022	0.026	0.026	0.015
11:53:00 AM	0.003	0.003	0.004	0.007	0.007	11:53:00 AM	0.017	0.018	0.02	0.023	0.023	0.006
11:54:00 AM	0.003	0.004	0.005	0.007	0.008	11:54:00 AM	0.017	0.018	0.02	0.022	0.023	0.005
11:55:00 AM	0.003	0.003	0.004	0.007	0.007	11:55:00 AM	0.01	0.011	0.012	0.013	0.013	-0.011
11:56:00 AM	0.002	0.003	0.003	0.005	0.006	11:56:00 AM	0.009	0.01	0.01	0.011	0.011	0.008
11:57:00 AM	0.01	0.011	0.014	0.021	0.021	11:57:00 AM	0.009	0.009	0.009	0.01	0.01	0.008
11:58:00 AM	0.001	0.001	0.001	0.002	0.002	11:58:00 AM	0.009	0.009	0.009	0.01	0.01	0.001
11:59:00 AM	0.001	0.001	0.002	0.002	0.002	11:59:00 AM	0.009	0.009	0.01	0.01	0.01	0.005
12:00:00 PM	0.005	0.006	0.006	0.01	0.01	12:00:00 PM	0.009	0.01	0.01	0.011	0.011	0.006
12:01:00 PM	0.003	0.003	0.004	0.005	0.005	12:01:00 PM	0.009	0.01	0.01	0.01	0.01	0.008
12:02:00 PM	0.002	0.003	0.003	0.005	0.005	12:02:00 PM	0.009	0.01	0.01	0.011	0.011	0.014
12:03:00 PM	0.003	0.003	0.004	0.006	0.006	12:03:00 PM	0.012	0.013	0.014	0.014	0.014	0.007
12:04:00 PM	0	0	0.001	0.002	0.002	12:04:00 PM	0.014	0.015	0.015	0.016	0.016	-0.005
12:05:00 PM	0.002	0.002	0.003	0.005	0.005	12:05:00 PM	0.01	0.01	0.011	0.012	0.012	0.005
12:06:00 PM	0.011	0.012	0.013	0.016	0.016	12:06:00 PM	0.009	0.01	0.01	0.011	0.011	0.005
12:07:00 PM	0.002	0.003	0.003	0.005	0.005	12:07:00 PM	0.009	0.009	0.009	0.01	0.01	0.005
12:08:00 PM	0.003	0.003	0.004	0.006	0.006	12:08:00 PM	0.009	0.01	0.01	0.011	0.011	0.005
12:09:00 PM	0.003	0.004	0.004	0.006	0.006	12:09:00 PM	0.009	0.01	0.01	0.011	0.011	0.01
12:10:00 PM	0.004	0.004	0.005	0.007	0.007	12:10:00 PM	0.01	0.01	0.011	0.012	0.012	0.01
12:11:00 PM	0.002	0.003	0.003	0.005	0.005	12:11:00 PM	0.012	0.013	0.013	0.015	0.015	0.006
12:12:00 PM	0.002	0.002	0.003	0.005	0.005	12:12:00 PM	0.012	0.012	0.013	0.014	0.015	-0.008
12:13:00 PM	0.003	0.003	0.004	0.007	0.007	12:13:00 PM	0.01	0.011	0.011	0.013	0.013	0.003
12:14:00 PM	0.011	0.011	0.014	0.019	0.019	12:14:00 PM	0.01	0.01	0.011	0.011	0.011	0.008
12:15:00 PM	0.005	0.006	0.006	0.008	0.009	12:15:00 PM	0.01	0.01	0.011	0.011	0.012	0.007
12:16:00 PM	0.002	0.002	0.003	0.004	0.004	12:16:00 PM	0.01	0.011	0.011	0.012	0.012	0.006
12:17:00 PM	0.002	0.002	0.003	0.004	0.004	12:17:00 PM	0.009	0.01	0.01	0.011	0.011	0.006
12:18:00 PM	0.002	0.002	0.003	0.004	0.004	12:18:00 PM	0.008	0.009	0.009	0.01	0.01	-0.003
12:19:00 PM	0.003	0.004	0.004	0.005	0.005	12:19:00 PM	0.009	0.009	0.01	0.011	0.011	-0.002
12:20:00 PM	0.007	0.008	0.01	0.013	0.013	12:20:00 PM	0.008	0.009	0.009	0.01	0.01	0.004
12:21:00 PM	0.006	0.007	0.008	0.011	0.011	12:21:00 PM	0.008	0.009	0.009	0.009	0.009	0.002
12:22:00 PM	0.006	0.006	0.006	0.008	0.008	12:22:00 PM	0.01	0.01	0.011	0.012	0.012	0.01
12:23:00 PM	0.005	0.006	0.006	0.008	0.008	12:23:00 PM	0.008	0.009	0.009	0.01	0.01	0.024

12:24:00 PM	0.003	0.003	0.004	0.005	0.006	12:24:00 PM	0.012	0.013	0.014	0.016	0.016	-0.02
12:25:00 PM	0.003	0.003	0.004	0.006	0.006	12:25:00 PM	0.019	0.022	0.024	0.03	0.03	-0.003
12:26:00 PM	0.016	0.018	0.022	0.032	0.033	12:26:00 PM	0.009	0.01	0.01	0.012	0.013	-0.007
12:27:00 PM	0.012	0.013	0.015	0.024	0.024	12:27:00 PM	0.013	0.015	0.017	0.02	0.021	-0.005
12:28:00 PM	0.008	0.009	0.011	0.016	0.016	12:28:00 PM	0.007	0.008	0.008	0.009	0.009	0.004
12:29:00 PM	0.005	0.006	0.008	0.013	0.013	12:29:00 PM	0.007	0.008	0.008	0.008	0.008	0.005
12:30:00 PM	0.003	0.003	0.003	0.005	0.005	12:30:00 PM	0.008	0.008	0.008	0.009	0.009	0.006
12:31:00 PM	0.001	0.001	0.002	0.004	0.004	12:31:00 PM	0.007	0.007	0.008	0.008	0.009	0.001
12:32:00 PM	0.001	0.001	0.002	0.003	0.003	12:32:00 PM	0.008	0.008	0.009	0.009	0.009	0.007
12:33:00 PM	0.003	0.003	0.004	0.006	0.007	12:33:00 PM	0.007	0.007	0.007	0.008	0.008	0.007
12:34:00 PM	0	0	0.001	0.001	0.001	12:34:00 PM	0.006	0.007	0.007	0.008	0.008	0.007
12:35:00 PM	0	0	0	0.001	0.001	12:35:00 PM	0.007	0.007	0.007	0.008	0.008	0.006
12:36:00 PM	0	0	0.001	0.002	0.002	12:36:00 PM	0.008	0.008	0.008	0.009	0.009	0.005
12:37:00 PM	0	0	0.001	0.002	0.002	12:37:00 PM	0.007	0.007	0.007	0.008	0.008	0.008
12:38:00 PM	0.001	0.001	0.002	0.003	0.003	12:38:00 PM	0.007	0.007	0.007	0.008	0.008	0.007
12:39:00 PM	0	0	0	0.002	0.002	12:39:00 PM	0.007	0.008	0.008	0.009	0.01	0.003
12:40:00 PM	0	0	0.001	0.001	0.001	12:40:00 PM	0.007	0.007	0.008	0.008	0.008	0.006
12:41:00 PM	0.002	0.002	0.003	0.006	0.006	12:41:00 PM	0.007	0.007	0.008	0.009	0.009	0.007
12:42:00 PM	0	0	0.001	0.002	0.002	12:42:00 PM	0.007	0.008	0.008	0.008	0.008	0.005
12:43:00 PM	0	0	0.001	0.002	0.002	12:43:00 PM	0.007	0.007	0.008	0.008	0.009	0.007
12:44:00 PM	0.001	0.001	0.002	0.002	0.003	12:44:00 PM	0.007	0.007	0.007	0.008	0.008	0.007
12:45:00 PM	0	0	0	0.001	0.001	12:45:00 PM	0.007	0.007	0.007	0.008	0.008	0.007
12:46:00 PM	0	0	0	0.001	0.001	12:46:00 PM	0.007	0.007	0.007	0.008	0.008	0.005
12:47:00 PM	0	0	0.001	0.002	0.002	12:47:00 PM	0.007	0.008	0.008	0.009	0.009	0.006
12:48:00 PM	0	0.001	0.001	0.002	0.003	12:48:00 PM	0.007	0.007	0.007	0.008	0.008	0.006
12:49:00 PM	0	0	0.001	0.002	0.002	12:49:00 PM	0.006	0.007	0.007	0.008	0.008	0.006
12:50:00 PM	0	0	0.001	0.001	0.002	12:50:00 PM	0.007	0.007	0.007	0.008	0.008	0.007
12:51:00 PM	0	0	0.001	0.002	0.002	12:51:00 PM	0.006	0.007	0.007	0.007	0.008	0.008
12:52:00 PM	0	0.001	0.001	0.002	0.002	12:52:00 PM	0.007	0.008	0.008	0.009	0.009	0.002
12:53:00 PM	0	0	0	0.001	0.001	12:53:00 PM	0.007	0.008	0.008	0.009	0.009	0.001
12:54:00 PM	0.005	0.005	0.006	0.006	0.006	12:54:00 PM	0.007	0.007	0.007	0.008	0.008	0.006
12:55:00 PM	0.005	0.005	0.006	0.007	0.007	12:55:00 PM	0.007	0.007	0.008	0.008	0.008	0.005
12:56:00 PM	0.001	0.001	0.001	0.002	0.002	12:56:00 PM	0.006	0.007	0.007	0.008	0.008	0
12:57:00 PM	0.002	0.002	0.003	0.004	0.004	12:57:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
12:58:00 PM	0.006	0.006	0.007	0.009	0.01	12:58:00 PM	0.008	0.009	0.009	0.01	0.01	0.006
12:59:00 PM	0.008	0.008	0.009	0.012	0.012	12:59:00 PM	0.008	0.009	0.009	0.01	0.011	0.005
1:00:00 PM	0.003	0.004	0.004	0.005	0.005	1:00:00 PM	0.008	0.009	0.01	0.01	0.011	-0.003
1:01:00 PM	0.004	0.004	0.004	0.005	0.005	1:01:00 PM	0.008	0.008	0.009	0.01	0.01	0.022
1:02:00 PM	0.009	0.01	0.011	0.012	0.012	1:02:00 PM	0.008	0.008	0.009	0.009	0.009	0.005
1:03:00 PM	0.002	0.002	0.003	0.004	0.004	1:03:00 PM	0.016	0.019	0.021	0.026	0.026	0.003
1:04:00 PM	0.005	0.006	0.007	0.011	0.012	1:04:00 PM	0.011	0.012	0.013	0.015	0.017	-0.003
1:05:00 PM	0.005	0.005	0.007	0.011	0.011	1:05:00 PM	0.01	0.01	0.011	0.013	0.014	-0.01
1:06:00 PM	0.005	0.005	0.007	0.011	0.011	1:06:00 PM	0.007	0.007	0.007	0.008	0.008	-0.055
1:07:00 PM	0.011	0.011	0.013	0.018	0.018	1:07:00 PM	0.007	0.007	0.007	0.008	0.008	0.005
1:08:00 PM	0.031	0.035	0.042	0.063	0.063	1:08:00 PM	0.007	0.007	0.007	0.008	0.008	-0.292
1:09:00 PM	0.001	0.001	0.002	0.003	0.003	1:09:00 PM	0.007	0.007	0.008	0.008	0.008	-0.112
1:10:00 PM	0.141	0.155	0.193	0.299	0.3	1:10:00 PM	0.007	0.007	0.008	0.008	0.008	-0.001
1:11:00 PM	0.059	0.065	0.08	0.12	0.121	1:11:00 PM	0.007	0.008	0.008	0.009	0.009	0.001
1:12:00 PM	0.004	0.005	0.006	0.01	0.01	1:12:00 PM	0.007	0.008	0.008	0.009	0.009	0.005
1:13:00 PM	0.005	0.005	0.006	0.008	0.008	1:13:00 PM	0.007	0.008	0.008	0.008	0.009	0.003
1:14:00 PM	0.002	0.003	0.003	0.004	0.004	1:14:00 PM	0.007	0.008	0.008	0.009	0.009	0.004
1:15:00 PM	0.002	0.002	0.003	0.006	0.006	1:15:00 PM	0.008	0.008	0.008	0.009	0.009	-0.002
1:16:00 PM	0.003	0.003	0.004	0.005	0.005	1:16:00 PM	0.007	0.008	0.008	0.009	0.009	0.002
1:17:00 PM	0.005	0.006	0.007	0.01	0.011	1:17:00 PM	0.008	0.008	0.009	0.009	0.009	0.002
1:18:00 PM	0.004	0.004	0.005	0.007	0.007	1:18:00 PM	0.008	0.008	0.008	0.009	0.009	-0.001
1:19:00 PM	0.004	0.004	0.005	0.007	0.007	1:19:00 PM	0.008	0.008	0.009	0.009	0.009	0.005
1:20:00 PM	0.007	0.007	0.009	0.012	0.012	1:20:00 PM	0.009	0.01	0.01	0.011	0.011	0
1:21:00 PM	0.002	0.003	0.003	0.004	0.004	1:21:00 PM	0.008	0.009	0.009	0.009	0.009	0.006
1:22:00 PM	0.004	0.004	0.005	0.009	0.009	1:22:00 PM	0.007	0.008	0.008	0.009	0.009	0.002
1:23:00 PM	0.002	0.002	0.003	0.004	0.004	1:23:00 PM	0.008	0.009	0.009	0.01	0.01	0.002
1:24:00 PM	0.005	0.005	0.005	0.007	0.007	1:24:00 PM	0.007	0.008	0.008	0.009	0.009	-0.023
1:25:00 PM	0.008	0.009	0.009	0.011	0.011	1:25:00 PM	0.011	0.011	0.012	0.013	0.013	-0.007
1:26:00 PM	0.019	0.02	0.024	0.033	0.033	1:26:00 PM	0.008	0.008	0.009	0.01	0.01	0.014
1:27:00 PM	0.008	0.009	0.01	0.016	0.016	1:27:00 PM	0.007	0.008	0.008	0.009	0.009	0.004
1:28:00 PM	0.004	0.005	0.005	0.007	0.007	1:28:00 PM	0.015	0.016	0.018	0.021	0.021	-0.004

1:29:00 PM	0.007	0.008	0.009	0.013	0.013	1:29:00 PM	0.013	0.014	0.015	0.017	0.017	0.002
1:30:00 PM	0.006	0.007	0.009	0.013	0.014	1:30:00 PM	0.008	0.009	0.009	0.01	0.01	-0.005
1:31:00 PM	0.005	0.005	0.006	0.008	0.008	1:31:00 PM	0.008	0.008	0.009	0.01	0.01	-0.002
1:32:00 PM	0.009	0.01	0.011	0.014	0.014	1:32:00 PM	0.008	0.008	0.009	0.009	0.009	0.005
1:33:00 PM	0.008	0.008	0.009	0.012	0.012	1:33:00 PM	0.008	0.009	0.009	0.01	0.01	0.006
1:34:00 PM	0.002	0.003	0.004	0.005	0.005	1:34:00 PM	0.008	0.009	0.009	0.01	0.01	0.008
1:35:00 PM	0.005	0.006	0.007	0.008	0.008	1:35:00 PM	0.01	0.011	0.012	0.014	0.014	-0.001
1:36:00 PM	0.007	0.007	0.008	0.009	0.009	1:36:00 PM	0.011	0.013	0.014	0.017	0.017	-0.007
1:37:00 PM	0.008	0.008	0.01	0.015	0.015	1:37:00 PM	0.011	0.011	0.012	0.014	0.014	0.007
1:38:00 PM	0.009	0.01	0.012	0.019	0.019	1:38:00 PM	0.01	0.01	0.011	0.012	0.012	0.007
1:39:00 PM	0.002	0.002	0.003	0.005	0.005	1:39:00 PM	0.009	0.01	0.01	0.011	0.012	-0.009
1:40:00 PM	0.005	0.005	0.006	0.009	0.009	1:40:00 PM	0.011	0.012	0.013	0.015	0.016	0.004
1:41:00 PM	0.009	0.009	0.012	0.018	0.018	1:41:00 PM	0.008	0.008	0.009	0.009	0.009	0.006
1:42:00 PM	0.002	0.003	0.004	0.006	0.006	1:42:00 PM	0.008	0.009	0.009	0.01	0.01	0.005
1:43:00 PM	0.002	0.002	0.003	0.004	0.005	1:43:00 PM	0.009	0.009	0.01	0.011	0.011	0.002
1:44:00 PM	0.005	0.005	0.006	0.009	0.009	1:44:00 PM	0.011	0.012	0.013	0.014	0.014	-0.01
1:45:00 PM	0.008	0.009	0.011	0.016	0.016	1:45:00 PM	0.013	0.014	0.015	0.018	0.018	-0.009
1:46:00 PM	0.009	0.01	0.013	0.021	0.021	1:46:00 PM	0.009	0.009	0.01	0.011	0.011	0.004
1:47:00 PM	0.008	0.009	0.012	0.018	0.018	1:47:00 PM	0.008	0.008	0.009	0.009	0.009	0.005
1:48:00 PM	0.002	0.003	0.003	0.005	0.005	1:48:00 PM	0.008	0.008	0.009	0.009	0.009	0.006
1:49:00 PM	0.003	0.003	0.004	0.005	0.005	1:49:00 PM	0.008	0.008	0.009	0.009	0.01	0.007
1:50:00 PM	0.003	0.003	0.003	0.004	0.004	1:50:00 PM	0.009	0.009	0.009	0.01	0.01	-0.007
1:51:00 PM	0.002	0.002	0.002	0.003	0.003	1:51:00 PM	0.009	0.009	0.01	0.01	0.01	0.006
1:52:00 PM	0.015	0.015	0.016	0.017	0.017	1:52:00 PM	0.008	0.009	0.009	0.01	0.01	0.006
1:53:00 PM	0.01	0.01	0.011	0.012	0.012	1:53:00 PM	0.012	0.013	0.014	0.017	0.018	-0.006
1:54:00 PM	0.007	0.007	0.009	0.011	0.011	1:54:00 PM	0.012	0.013	0.014	0.017	0.017	-0.005
1:55:00 PM	0.009	0.01	0.012	0.017	0.017	1:55:00 PM	0.009	0.01	0.01	0.011	0.011	0.004
1:56:00 PM	0.008	0.009	0.01	0.015	0.015	1:56:00 PM	0.009	0.009	0.01	0.01	0.01	0.008
1:57:00 PM	0.003	0.003	0.004	0.007	0.007	1:57:00 PM	0.009	0.01	0.011	0.011	0.011	0.006
1:58:00 PM	0.002	0.002	0.003	0.005	0.005	1:58:00 PM	0.01	0.011	0.011	0.013	0.013	0.001
1:59:00 PM	0.003	0.004	0.005	0.008	0.008	1:59:00 PM	0.011	0.012	0.012	0.014	0.014	-0.005
2:00:00 PM	0.006	0.006	0.007	0.011	0.011	2:00:00 PM	0.01	0.01	0.011	0.012	0.012	0.005
2:01:00 PM	0.007	0.008	0.01	0.016	0.016	2:01:00 PM	0.009	0.009	0.01	0.011	0.011	0.007
2:02:00 PM	0.002	0.003	0.004	0.006	0.006	2:02:00 PM	0.009	0.009	0.01	0.01	0.011	0.004
2:03:00 PM	0.002	0.003	0.004	0.005	0.005	2:03:00 PM	0.01	0.01	0.011	0.012	0.012	-0.013
2:04:00 PM	0.003	0.004	0.005	0.008	0.008	2:04:00 PM	0.01	0.01	0.011	0.012	0.012	0.013
2:05:00 PM	0.011	0.012	0.015	0.025	0.025	2:05:00 PM	0.01	0.011	0.011	0.012	0.012	0.001
2:06:00 PM	0.001	0.002	0.002	0.004	0.004	2:06:00 PM	0.012	0.013	0.014	0.016	0.017	0.011
2:07:00 PM	0.006	0.007	0.008	0.012	0.012	2:07:00 PM	0.011	0.011	0.012	0.013	0.013	0.005
2:08:00 PM	0.005	0.006	0.007	0.011	0.011	2:08:00 PM	0.014	0.016	0.018	0.021	0.022	0.002
2:09:00 PM	0.005	0.006	0.007	0.011	0.011	2:09:00 PM	0.012	0.013	0.014	0.016	0.016	0.007
2:10:00 PM	0.007	0.008	0.009	0.014	0.014	2:10:00 PM	0.012	0.013	0.014	0.016	0.016	0.008
2:11:00 PM	0.003	0.003	0.004	0.006	0.006	2:11:00 PM	0.011	0.012	0.012	0.013	0.013	0.002
2:12:00 PM	0.003	0.004	0.005	0.007	0.007	2:12:00 PM	0.011	0.012	0.013	0.014	0.015	0.008
2:13:00 PM	0.006	0.007	0.008	0.011	0.011	2:13:00 PM	0.01	0.011	0.012	0.013	0.013	0.012
2:14:00 PM	0.004	0.005	0.006	0.009	0.009	2:14:00 PM	0.012	0.013	0.014	0.017	0.017	0.005
2:15:00 PM	0.006	0.007	0.009	0.014	0.014	2:15:00 PM	0.017	0.019	0.022	0.026	0.026	0.006
2:16:00 PM	0.014	0.015	0.019	0.03	0.031	2:16:00 PM	0.02	0.023	0.026	0.033	0.036	0.007
2:17:00 PM	0.009	0.01	0.012	0.02	0.02	2:17:00 PM	0.017	0.019	0.021	0.026	0.026	-0.001
2:18:00 PM	0.009	0.009	0.011	0.015	0.015	2:18:00 PM	0.015	0.016	0.018	0.022	0.022	0.001
2:19:00 PM	0.01	0.011	0.013	0.02	0.02	2:19:00 PM	0.013	0.015	0.016	0.019	0.019	0.001
2:20:00 PM	0.007	0.008	0.009	0.014	0.015	2:20:00 PM	0.012	0.014	0.014	0.016	0.016	0.001
2:21:00 PM	0.007	0.008	0.009	0.013	0.013	2:21:00 PM	0.011	0.011	0.012	0.013	0.014	0.004
2:22:00 PM	0.005	0.006	0.007	0.009	0.01	2:22:00 PM	0.009	0.01	0.01	0.011	0.011	0.009
2:23:00 PM	0.005	0.006	0.007	0.01	0.01	2:23:00 PM	0.011	0.012	0.012	0.014	0.014	0.01
2:24:00 PM	0.003	0.004	0.005	0.007	0.007	2:24:00 PM	0.011	0.012	0.013	0.015	0.016	0.009
2:25:00 PM	0.004	0.005	0.006	0.009	0.009	2:25:00 PM	0.014	0.015	0.016	0.019	0.019	0.006
2:26:00 PM	0.004	0.005	0.006	0.008	0.008	2:26:00 PM	0.012	0.013	0.014	0.017	0.017	0.001
2:27:00 PM	0.005	0.005	0.006	0.009	0.009	2:27:00 PM	0.011	0.012	0.013	0.014	0.015	0.002
2:28:00 PM	0.005	0.005	0.007	0.01	0.01	2:28:00 PM	0.01	0.01	0.011	0.011	0.011	0.003
2:29:00 PM	0.005	0.005	0.006	0.009	0.009	2:29:00 PM	0.009	0.01	0.01	0.011	0.011	0.007
2:30:00 PM	0.003	0.004	0.005	0.007	0.007	2:30:00 PM	0.009	0.009	0.009	0.01	0.01	0.006
2:31:00 PM	0.001	0.001	0.002	0.003	0.003	2:31:00 PM	0.009	0.009	0.009	0.01	0.01	0.008
2:32:00 PM	0.001	0.002	0.002	0.003	0.004	2:32:00 PM	0.009	0.009	0.009	0.01	0.01	0.01
2:33:00 PM	0	0.001	0.001	0.003	0.003	2:33:00 PM	0.009	0.009	0.01	0.011	0.011	0.007

2:34:00 PM	0	0	0	0.001	0.001
2:35:00 PM	0.001	0.001	0.002	0.003	0.003
2:36:00 PM	0	0.001	0.001	0.002	0.002
2:37:00 PM	0.001	0.002	0.002	0.004	0.004
2:38:00 PM	0	0	0.001	0.002	0.002
2:39:00 PM	0.001	0.001	0.002	0.004	0.004
2:40:00 PM	0.001	0.001	0.002	0.003	0.003
2:41:00 PM	0	0.001	0.001	0.002	0.002
2:42:00 PM	0	0.001	0.001	0.002	0.002
2:43:00 PM	0.001	0.001	0.001	0.002	0.002
2:44:00 PM	0.003	0.003	0.004	0.006	0.006
2:45:00 PM	0.004	0.005	0.006	0.008	0.008
2:46:00 PM	0.006	0.006	0.008	0.011	0.011
2:47:00 PM	0.005	0.006	0.008	0.011	0.011
2:48:00 PM	0.002	0.002	0.003	0.004	0.004
2:49:00 PM	0.001	0.001	0.001	0.003	0.003
2:50:00 PM	0.001	0.001	0.001	0.002	0.002
2:51:00 PM	0.001	0.001	0.001	0.002	0.002
2:52:00 PM	0.001	0.002	0.002	0.004	0.004
2:53:00 PM	0.001	0.002	0.002	0.005	0.005
2:54:00 PM	0.001	0.001	0.002	0.003	0.003
2:55:00 PM	0	0.001	0.001	0.002	0.002
2:56:00 PM	0.002	0.002	0.002	0.003	0.003
2:57:00 PM	0.003	0.004	0.004	0.005	0.005
2:58:00 PM	0.005	0.005	0.006	0.007	0.008
2:59:00 PM	0.002	0.002	0.002	0.003	0.003
3:00:00 PM	0.001	0.002	0.002	0.004	0.004
3:01:00 PM	0.002	0.002	0.003	0.004	0.004
3:02:00 PM	0.004	0.004	0.005	0.006	0.006
3:03:00 PM	0.004	0.004	0.005	0.006	0.006
3:04:00 PM	0.002	0.002	0.002	0.003	0.003
3:05:00 PM	0.004	0.004	0.004	0.006	0.006
3:06:00 PM	0.004	0.004	0.005	0.006	0.006
3:07:00 PM	0.003	0.003	0.004	0.004	0.004
3:08:00 PM	0.004	0.004	0.005	0.006	0.006
3:09:00 PM	0.003	0.004	0.004	0.007	0.007
3:10:00 PM	0.004	0.005	0.006	0.009	0.009
3:11:00 PM	0.001	0.001	0.002	0.003	0.003
3:12:00 PM	0.001	0.001	0.002	0.002	0.002
3:13:00 PM	0.002	0.002	0.003	0.004	0.004
3:14:00 PM	0.007	0.008	0.009	0.013	0.013
3:15:00 PM	0.002	0.002	0.003	0.004	0.004
3:16:00 PM	0.004	0.004	0.006	0.009	0.009
3:17:00 PM	0.005	0.006	0.007	0.014	0.014
3:18:00 PM	0.005	0.005	0.007	0.012	0.012
3:19:00 PM	0.004	0.004	0.006	0.009	0.009
3:20:00 PM	0.004	0.004	0.005	0.008	0.008
3:21:00 PM	0.005	0.005	0.007	0.011	0.011
3:22:00 PM	0.009	0.01	0.013	0.02	0.021
3:23:00 PM	0.007	0.008	0.01	0.015	0.015
3:24:00 PM	0.004	0.005	0.007	0.011	0.011
3:25:00 PM	0.007	0.008	0.009	0.015	0.015
3:26:00 PM	0.005	0.005	0.007	0.01	0.01
3:27:00 PM	0.003	0.004	0.005	0.007	0.007
3:28:00 PM	0.003	0.004	0.005	0.008	0.008
3:29:00 PM	0.009	0.01	0.012	0.019	0.02
3:30:00 PM	0.007	0.007	0.009	0.015	0.015
3:31:00 PM	0.004	0.005	0.006	0.01	0.01
3:32:00 PM	0.006	0.006	0.008	0.012	0.012
3:33:00 PM	0.003	0.003	0.004	0.006	0.006
3:34:00 PM	0.003	0.004	0.005	0.007	0.007
3:35:00 PM	0.005	0.005	0.006	0.008	0.008
3:36:00 PM	0.005	0.005	0.007	0.012	0.012
3:37:00 PM	0.006	0.006	0.008	0.012	0.012
3:38:00 PM	0.002	0.002	0.003	0.006	0.006

2:34:00 PM	0.009	0.009	0.01	0.01	0.011	0.008
2:35:00 PM	0.009	0.009	0.01	0.01	0.01	0.007
2:36:00 PM	0.009	0.009	0.01	0.01	0.01	0.009
2:37:00 PM	0.009	0.009	0.01	0.011	0.011	0.006
2:38:00 PM	0.009	0.01	0.01	0.011	0.011	0.008
2:39:00 PM	0.009	0.009	0.009	0.01	0.01	0.008
2:40:00 PM	0.009	0.009	0.01	0.011	0.011	0.009
2:41:00 PM	0.009	0.009	0.01	0.01	0.01	0.009
2:42:00 PM	0.009	0.01	0.01	0.011	0.011	0.006
2:43:00 PM	0.009	0.01	0.01	0.011	0.011	0.008
2:44:00 PM	0.01	0.01	0.011	0.012	0.012	0.002
2:45:00 PM	0.012	0.013	0.014	0.016	0.016	-0.001
2:46:00 PM	0.01	0.011	0.012	0.013	0.013	0.007
2:47:00 PM	0.009	0.01	0.01	0.01	0.01	0.008
2:48:00 PM	0.009	0.01	0.01	0.01	0.011	0.009
2:49:00 PM	0.009	0.01	0.01	0.011	0.011	0.009
2:50:00 PM	0.009	0.01	0.011	0.011	0.011	0.007
2:51:00 PM	0.009	0.01	0.01	0.011	0.011	0.006
2:52:00 PM	0.009	0.01	0.01	0.011	0.011	0.007
2:53:00 PM	0.009	0.009	0.01	0.011	0.011	0.008
2:54:00 PM	0.008	0.009	0.009	0.009	0.01	0.007
2:55:00 PM	0.009	0.009	0.01	0.01	0.01	0.005
2:56:00 PM	0.009	0.009	0.01	0.01	0.01	0.004
2:57:00 PM	0.009	0.01	0.01	0.01	0.01	0.01
2:58:00 PM	0.01	0.011	0.011	0.012	0.012	0.006
2:59:00 PM	0.011	0.011	0.012	0.013	0.013	0.006
3:00:00 PM	0.009	0.01	0.01	0.01	0.01	0.004
3:01:00 PM	0.009	0.009	0.01	0.01	0.01	0.004
3:02:00 PM	0.009	0.009	0.01	0.01	0.01	0.009
3:03:00 PM	0.009	0.009	0.009	0.01	0.01	0.004
3:04:00 PM	0.01	0.011	0.011	0.012	0.012	0.004
3:05:00 PM	0.009	0.009	0.01	0.01	0.01	0.007
3:06:00 PM	0.009	0.009	0.01	0.01	0.01	0.004
3:07:00 PM	0.009	0.01	0.01	0.011	0.011	0.003
3:08:00 PM	0.009	0.009	0.009	0.01	0.01	0.006
3:09:00 PM	0.009	0.009	0.009	0.01	0.01	0.007
3:10:00 PM	0.011	0.012	0.013	0.015	0.015	0.009
3:11:00 PM	0.009	0.01	0.01	0.01	0.01	0.007
3:12:00 PM	0.009	0.009	0.01	0.011	0.011	0
3:13:00 PM	0.009	0.01	0.01	0.011	0.011	0.017
3:14:00 PM	0.01	0.011	0.012	0.012	0.013	0.008
3:15:00 PM	0.014	0.015	0.016	0.02	0.021	0.008
3:16:00 PM	0.012	0.013	0.014	0.016	0.017	0.002
3:17:00 PM	0.015	0.016	0.018	0.021	0.022	0.002
3:18:00 PM	0.011	0.012	0.013	0.014	0.014	0.012
3:19:00 PM	0.009	0.009	0.01	0.011	0.011	0.007
3:20:00 PM	0.014	0.016	0.017	0.019	0.02	0.001
3:21:00 PM	0.012	0.013	0.014	0.017	0.018	0.006
3:22:00 PM	0.015	0.017	0.019	0.022	0.022	0.01
3:23:00 PM	0.014	0.015	0.017	0.02	0.021	0.009
3:24:00 PM	0.014	0.016	0.018	0.02	0.021	0.007
3:25:00 PM	0.018	0.019	0.021	0.024	0.024	0.01
3:26:00 PM	0.013	0.014	0.015	0.017	0.017	0.007
3:27:00 PM	0.013	0.014	0.016	0.017	0.017	0.003
3:28:00 PM	0.011	0.012	0.013	0.014	0.015	0.001
3:29:00 PM	0.016	0.018	0.019	0.023	0.023	0.001
3:30:00 PM	0.012	0.013	0.014	0.016	0.016	0
3:31:00 PM	0.009	0.01	0.01	0.011	0.011	0.004
3:32:00 PM	0.01	0.011	0.011	0.012	0.012	0.005
3:33:00 PM	0.009	0.009	0.01	0.01	0.01	0.012
3:34:00 PM	0.009	0.01	0.011	0.012	0.012	-0.001
3:35:00 PM	0.014	0.016	0.017	0.02	0.02	-0.001
3:36:00 PM	0.009	0.01	0.01	0.011	0.011	0.011
3:37:00 PM	0.009	0.009	0.01	0.011	0.011	0.006
3:38:00 PM	0.012	0.013	0.014	0.016	0.017	0.006

3:39:00 PM	0.005	0.005	0.007	0.01	0.01
3:40:00 PM	0.004	0.005	0.006	0.009	0.009
3:41:00 PM	0.005	0.005	0.007	0.01	0.011
3:42:00 PM	0.006	0.006	0.008	0.013	0.013
3:43:00 PM	0.007	0.007	0.009	0.014	0.014
3:44:00 PM	0.005	0.006	0.007	0.012	0.012
3:45:00 PM	0.006	0.007	0.008	0.012	0.012
3:46:00 PM	0.005	0.005	0.007	0.01	0.01
3:47:00 PM	0.006	0.006	0.008	0.013	0.013
3:48:00 PM	0.007	0.008	0.01	0.017	0.017
3:49:00 PM	0.005	0.006	0.007	0.011	0.011
3:50:00 PM	0.004	0.004	0.005	0.01	0.01
3:51:00 PM	0.004	0.004	0.005	0.008	0.008
3:52:00 PM	0.007	0.008	0.009	0.011	0.011
3:53:00 PM	0.034	0.036	0.039	0.046	0.047
3:54:00 PM	0.006	0.007	0.008	0.013	0.013
3:55:00 PM	0.005	0.005	0.007	0.012	0.012
3:56:00 PM	0.001	0.002	0.002	0.004	0.004
3:57:00 PM	0.005	0.005	0.007	0.011	0.011
3:58:00 PM	0.003	0.004	0.005	0.007	0.007
3:59:00 PM	0.004	0.005	0.006	0.009	0.009
4:00:00 PM	0.007	0.008	0.01	0.016	0.016
4:01:00 PM	0.004	0.005	0.006	0.01	0.011
4:02:00 PM	0.005	0.005	0.006	0.01	0.01
4:03:00 PM	0.005	0.006	0.007	0.011	0.011
4:04:00 PM	0.006	0.007	0.008	0.012	0.012
4:05:00 PM	0.005	0.005	0.007	0.009	0.01
4:06:00 PM	0.008	0.009	0.011	0.015	0.015
4:07:00 PM	0.005	0.006	0.007	0.011	0.011
4:08:00 PM	0.008	0.009	0.012	0.018	0.018
4:09:00 PM	0.007	0.008	0.011	0.017	0.017

3:39:00 PM	0.011	0.012	0.013	0.015	0.016	0.001
3:40:00 PM	0.011	0.012	0.013	0.014	0.015	0.01
3:41:00 PM	0.01	0.01	0.011	0.012	0.012	0.009
3:42:00 PM	0.015	0.016	0.018	0.022	0.023	0.007
3:43:00 PM	0.016	0.017	0.019	0.022	0.023	0
3:44:00 PM	0.014	0.015	0.017	0.019	0.019	0.002
3:45:00 PM	0.01	0.01	0.011	0.012	0.012	-0.001
3:46:00 PM	0.01	0.01	0.011	0.012	0.012	-0.005
3:47:00 PM	0.009	0.01	0.011	0.012	0.012	0.001
3:48:00 PM	0.01	0.01	0.011	0.012	0.012	0.001
3:49:00 PM	0.009	0.01	0.01	0.011	0.012	0.006
3:50:00 PM	0.009	0.01	0.01	0.011	0.011	0.005
3:51:00 PM	0.01	0.011	0.012	0.014	0.014	-0.03
3:52:00 PM	0.012	0.013	0.014	0.016	0.016	-0.002
3:53:00 PM	0.011	0.012	0.013	0.015	0.017	0
3:54:00 PM	0.009	0.01	0.01	0.011	0.011	0.014
3:55:00 PM	0.01	0.011	0.011	0.012	0.012	0.004
3:56:00 PM	0.013	0.014	0.015	0.017	0.018	0.013
3:57:00 PM	0.011	0.012	0.013	0.015	0.015	0.009
3:58:00 PM	0.013	0.014	0.016	0.019	0.02	-0.001
3:59:00 PM	0.012	0.013	0.014	0.017	0.018	0.011
4:00:00 PM	0.011	0.012	0.013	0.015	0.015	0.05
4:01:00 PM	0.015	0.017	0.018	0.022	0.022	0
4:02:00 PM	0.03	0.035	0.042	0.057	0.06	0.012
4:03:00 PM	0.009	0.01	0.01	0.011	0.011	0.009
4:04:00 PM	0.016	0.018	0.02	0.023	0.024	0.005
4:05:00 PM	0.013	0.014	0.016	0.018	0.019	0.012
4:06:00 PM	0.013	0.015	0.017	0.02	0.02	-0.018
4:07:00 PM	0.014	0.016	0.019	0.023	0.023	0.016
4:08:00 PM	0	0	0	0	0	0.043
4:09:00 PM	0.01	0.01	0.011	0.014	0.033	0.041
4:10:00 PM	0.012	0.012	0.012	0.018	0.043	0.033
4:11:00 PM	0.012	0.012	0.012	0.017	0.041	0.033
4:12:00 PM	0.01	0.011	0.011	0.015	0.033	0.033
4:13:00 PM	0.011	0.011	0.012	0.016	0.033	0.023
4:14:00 PM	0.011	0.011	0.011	0.015	0.033	0.026
4:15:00 PM	0.008	0.009	0.009	0.013	0.023	0.03
4:16:00 PM	0.01	0.011	0.011	0.014	0.026	0.023
4:17:00 PM	0.011	0.011	0.012	0.016	0.03	0.04
4:18:00 PM	0.01	0.01	0.01	0.014	0.023	
4:19:00 PM	0.013	0.013	0.013	0.018	0.04	

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/10/2014
Test Name	MANUAL_004
Test Start Time	10:56:08 AM
Test Start Date	10/10/2014
Test Length [D:H:M]	0:05:28
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.017
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	0.047
PM1 TWA [mg/m3]	0.011
PM2.5 Average [mg/m3]	0.017
PM2.5 Minimum [mg/m3]	0.01
PM2.5 Maximum [mg/m3]	0.05
PM2.5 TWA [mg/m3]	0.012
PM4 Average [mg/m3]	0.018
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	0.055
PM4 TWA [mg/m3]	0.012
PM10 Average [mg/m3]	0.019
PM10 Minimum [mg/m3]	0.011
PM10 Maximum [mg/m3]	0.065
PM10 TWA [mg/m3]	0.013
TOTAL Average [mg/m3]	0.019
TOTAL Minimum [mg/m3]	0.011
TOTAL Maximum [mg/m3]	0.066
TOTAL TWA [mg/m3]	0.013
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	328

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg	Alarms
10:56:00 AM	0.012	0.012	0.013	0.016	0.016	
10:57:00 AM	0.012	0.012	0.013	0.014	0.014	
10:58:00 AM	0.012	0.012	0.012	0.014	0.014	
10:59:00 AM	0.011	0.011	0.012	0.013	0.013	
11:00:00 AM	0.011	0.011	0.012	0.014	0.014	
11:01:00 AM	0.013	0.013	0.014	0.016	0.016	
11:02:00 AM	0.014	0.014	0.015	0.018	0.018	
11:03:00 AM	0.013	0.013	0.014	0.016	0.016	
11:04:00 AM	0.011	0.011	0.011	0.012	0.012	
11:05:00 AM	0.011	0.011	0.012	0.012	0.012	
11:06:00 AM	0.012	0.012	0.013	0.014	0.014	
11:07:00 AM	0.012	0.012	0.012	0.014	0.014	
11:08:00 AM	0.012	0.012	0.013	0.014	0.014	
11:09:00 AM	0.014	0.014	0.015	0.017	0.017	
11:10:00 AM	0.016	0.017	0.017	0.02	0.02	
11:11:00 AM	0.013	0.013	0.014	0.015	0.015	
11:12:00 AM	0.015	0.016	0.017	0.019	0.019	
11:13:00 AM	0.017	0.017	0.018	0.021	0.021	
11:14:00 AM	0.013	0.013	0.014	0.016	0.016	
11:15:00 AM	0.012	0.013	0.013	0.014	0.014	
11:16:00 AM	0.013	0.013	0.013	0.015	0.015	
11:17:00 AM	0.014	0.014	0.015	0.017	0.017	
11:18:00 AM	0.013	0.013	0.014	0.015	0.015	
11:19:00 AM	0.013	0.014	0.014	0.015	0.015	
11:20:00 AM	0.013	0.014	0.014	0.015	0.015	
11:21:00 AM	0.014	0.014	0.015	0.016	0.017	
11:22:00 AM	0.016	0.016	0.017	0.019	0.019	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/10/2014
Test Name	MANUAL_004
Test Start Time	10:58:15 AM
Test Start Date	10/10/2014
Test Length [D:H:M]	0:05:23
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.019
PM1 Minimum [mg/m3]	0.01
PM1 Maximum [mg/m3]	0.119
PM1 TWA [mg/m3]	0.013
PM2.5 Average [mg/m3]	0.02
PM2.5 Minimum [mg/m3]	0.011
PM2.5 Maximum [mg/m3]	0.134
PM2.5 TWA [mg/m3]	0.014
PM4 Average [mg/m3]	0.021
PM4 Minimum [mg/m3]	0.011
PM4 Maximum [mg/m3]	0.145
PM4 TWA [mg/m3]	0.014
PM10 Average [mg/m3]	0.022
PM10 Minimum [mg/m3]	0.012
PM10 Maximum [mg/m3]	0.163
PM10 TWA [mg/m3]	0.015
TOTAL Average [mg/m3]	0.023
TOTAL Minimum [mg/m3]	0.012
TOTAL Maximum [mg/m3]	0.164
TOTAL TWA [mg/m3]	0.015
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	323

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]	Alarms	Difference
							-0.016
							-0.014
							0
							-0.001
10:58:00 AM	0.011	0.011	0.012	0.014	0.014		0.001
10:59:00 AM	0.01	0.011	0.011	0.012	0.012		-0.002
11:00:00 AM	0.013	0.013	0.014	0.015	0.015		-0.006
11:01:00 AM	0.012	0.013	0.013	0.014	0.014		-0.004
11:02:00 AM	0.01	0.011	0.011	0.012	0.012		0.001
11:03:00 AM	0.011	0.011	0.011	0.012	0.012		0.002
11:04:00 AM	0.011	0.012	0.013	0.013	0.013		-0.001
11:05:00 AM	0.012	0.012	0.013	0.014	0.014		0.001
11:06:00 AM	0.011	0.012	0.012	0.013	0.013		0.01
11:07:00 AM	0.012	0.013	0.013	0.015	0.015		0.001
11:08:00 AM	0.019	0.021	0.022	0.023	0.024		-0.002
11:09:00 AM	0.016	0.016	0.017	0.018	0.018		0
11:10:00 AM	0.016	0.016	0.017	0.018	0.018		-0.005
11:11:00 AM	0.013	0.014	0.014	0.015	0.015		-0.006
11:12:00 AM	0.013	0.013	0.013	0.014	0.014		-0.002
11:13:00 AM	0.012	0.013	0.013	0.014	0.015		0.001
11:14:00 AM	0.012	0.013	0.013	0.014	0.014		0
11:15:00 AM	0.013	0.013	0.014	0.015	0.015		-0.002
11:16:00 AM	0.014	0.014	0.014	0.015	0.015		0.002
11:17:00 AM	0.014	0.014	0.015	0.015	0.015		0
11:18:00 AM	0.016	0.016	0.016	0.017	0.017		-0.002
11:19:00 AM	0.014	0.015	0.015	0.015	0.015		0.027
11:20:00 AM	0.012	0.013	0.013	0.013	0.013		0.001
11:21:00 AM	0.029	0.033	0.038	0.044	0.044		0.015
11:22:00 AM	0.018	0.019	0.019	0.02	0.02		0.012

11:23:00 AM	0.014	0.015	0.015	0.016	0.017	11:23:00 AM	0.03	0.031	0.032	0.032	0.032	-0.027
11:24:00 AM	0.014	0.014	0.014	0.015	0.015	11:24:00 AM	0.024	0.025	0.026	0.027	0.027	-0.009
11:25:00 AM	0.04	0.04	0.041	0.043	0.043	11:25:00 AM	0.015	0.016	0.016	0.016	0.016	0.032
11:26:00 AM	0.024	0.024	0.025	0.026	0.026	11:26:00 AM	0.014	0.015	0.015	0.017	0.017	0.039
11:27:00 AM	0.015	0.015	0.015	0.016	0.016	11:27:00 AM	0.032	0.036	0.04	0.046	0.048	0.018
11:28:00 AM	0.013	0.014	0.014	0.015	0.015	11:28:00 AM	0.038	0.042	0.046	0.053	0.054	0.003
11:29:00 AM	0.016	0.017	0.018	0.021	0.021	11:29:00 AM	0.03	0.033	0.036	0.039	0.039	-0.003
11:30:00 AM	0.017	0.017	0.018	0.019	0.019	11:30:00 AM	0.02	0.021	0.022	0.022	0.022	0.002
11:31:00 AM	0.016	0.016	0.017	0.018	0.019	11:31:00 AM	0.014	0.015	0.015	0.016	0.016	0.001
11:32:00 AM	0.014	0.014	0.014	0.016	0.016	11:32:00 AM	0.015	0.016	0.017	0.018	0.018	0.147
11:33:00 AM	0.014	0.014	0.015	0.016	0.016	11:33:00 AM	0.014	0.014	0.015	0.017	0.017	0.084
11:34:00 AM	0.014	0.014	0.015	0.017	0.017	11:34:00 AM	0.119	0.134	0.145	0.163	0.164	0.034
11:35:00 AM	0.012	0.012	0.013	0.014	0.014	11:35:00 AM	0.064	0.074	0.083	0.095	0.098	0.01
11:36:00 AM	0.013	0.013	0.013	0.014	0.014	11:36:00 AM	0.036	0.04	0.043	0.047	0.048	0.135
11:37:00 AM	0.016	0.016	0.017	0.018	0.018	11:37:00 AM	0.022	0.024	0.025	0.028	0.028	0.019
11:38:00 AM	0.013	0.013	0.014	0.015	0.015	11:38:00 AM	0.086	0.109	0.128	0.148	0.15	0.083
11:39:00 AM	0.012	0.013	0.013	0.015	0.015	11:39:00 AM	0.023	0.026	0.029	0.033	0.034	-0.001
11:40:00 AM	0.013	0.013	0.014	0.016	0.016	11:40:00 AM	0.089	0.093	0.095	0.098	0.099	0.01
11:41:00 AM	0.013	0.013	0.014	0.015	0.015	11:41:00 AM	0.012	0.012	0.012	0.013	0.014	0.022
11:42:00 AM	0.01	0.01	0.01	0.011	0.011	11:42:00 AM	0.017	0.018	0.018	0.02	0.021	0.08
11:43:00 AM	0.01	0.01	0.011	0.011	0.011	11:43:00 AM	0.029	0.03	0.031	0.032	0.033	0.003
11:44:00 AM	0.013	0.013	0.014	0.015	0.015	11:44:00 AM	0.078	0.083	0.086	0.094	0.095	0.004
11:45:00 AM	0.013	0.013	0.014	0.015	0.015	11:45:00 AM	0.015	0.016	0.017	0.018	0.018	0.002
11:46:00 AM	0.011	0.011	0.011	0.012	0.012	11:46:00 AM	0.015	0.015	0.016	0.016	0.016	0.004
11:47:00 AM	0.011	0.011	0.011	0.013	0.013	11:47:00 AM	0.013	0.014	0.014	0.015	0.015	-0.002
11:48:00 AM	0.011	0.012	0.012	0.012	0.012	11:48:00 AM	0.013	0.014	0.014	0.016	0.016	0.012
11:49:00 AM	0.013	0.013	0.014	0.015	0.015	11:49:00 AM	0.012	0.012	0.012	0.013	0.013	0.003
11:50:00 AM	0.012	0.012	0.012	0.013	0.013	11:50:00 AM	0.021	0.022	0.023	0.025	0.025	0.008
11:51:00 AM	0.011	0.011	0.011	0.012	0.012	11:51:00 AM	0.013	0.014	0.014	0.015	0.015	0.013
11:52:00 AM	0.011	0.012	0.012	0.013	0.013	11:52:00 AM	0.017	0.018	0.019	0.021	0.021	0.008
11:53:00 AM	0.011	0.011	0.012	0.012	0.012	11:53:00 AM	0.021	0.022	0.023	0.025	0.025	0.006
11:54:00 AM	0.011	0.011	0.012	0.013	0.013	11:54:00 AM	0.018	0.019	0.019	0.021	0.021	0.012
11:55:00 AM	0.013	0.014	0.014	0.015	0.015	11:55:00 AM	0.017	0.018	0.019	0.02	0.021	0.003
11:56:00 AM	0.013	0.013	0.014	0.015	0.015	11:56:00 AM	0.022	0.023	0.024	0.027	0.027	0.01
11:57:00 AM	0.014	0.014	0.014	0.016	0.016	11:57:00 AM	0.017	0.018	0.018	0.019	0.019	0.035
11:58:00 AM	0.012	0.012	0.012	0.013	0.013	11:58:00 AM	0.022	0.023	0.023	0.023	0.023	0.031
11:59:00 AM	0.011	0.011	0.012	0.012	0.012	11:59:00 AM	0.044	0.046	0.046	0.047	0.047	0.005
12:00:00 PM	0.011	0.011	0.011	0.012	0.012	12:00:00 PM	0.04	0.042	0.042	0.043	0.043	0.001
12:01:00 PM	0.012	0.012	0.012	0.013	0.013	12:01:00 PM	0.016	0.016	0.017	0.017	0.018	-0.003
12:02:00 PM	0.013	0.013	0.013	0.014	0.014	12:02:00 PM	0.014	0.014	0.014	0.015	0.015	0
12:03:00 PM	0.015	0.015	0.015	0.017	0.017	12:03:00 PM	0.012	0.012	0.012	0.013	0.014	0.004
12:04:00 PM	0.012	0.013	0.013	0.013	0.013	12:04:00 PM	0.012	0.012	0.013	0.013	0.013	0.003
12:05:00 PM	0.011	0.011	0.012	0.013	0.013	12:05:00 PM	0.015	0.016	0.016	0.017	0.017	0.003
12:06:00 PM	0.011	0.011	0.011	0.012	0.012	12:06:00 PM	0.013	0.014	0.014	0.015	0.015	0.002
12:07:00 PM	0.011	0.011	0.012	0.012	0.012	12:07:00 PM	0.013	0.013	0.014	0.015	0.015	0
12:08:00 PM	0.011	0.012	0.012	0.013	0.013	12:08:00 PM	0.013	0.014	0.014	0.015	0.015	0.01
12:09:00 PM	0.012	0.013	0.013	0.014	0.014	12:09:00 PM	0.013	0.013	0.013	0.014	0.014	0.029
12:10:00 PM	0.012	0.013	0.013	0.014	0.014	12:10:00 PM	0.02	0.021	0.022	0.024	0.024	0.053
12:11:00 PM	0.012	0.012	0.012	0.013	0.013	12:11:00 PM	0.036	0.038	0.039	0.041	0.042	0.032
12:12:00 PM	0.012	0.012	0.013	0.014	0.014	12:12:00 PM	0.061	0.063	0.064	0.066	0.067	-0.002
12:13:00 PM	0.013	0.014	0.015	0.016	0.016	12:13:00 PM	0.044	0.045	0.046	0.047	0.048	-0.002
12:14:00 PM	0.015	0.015	0.016	0.018	0.018	12:14:00 PM	0.015	0.015	0.016	0.016	0.016	0.012
12:15:00 PM	0.014	0.014	0.015	0.017	0.017	12:15:00 PM	0.014	0.014	0.014	0.015	0.015	0.011
12:16:00 PM	0.014	0.014	0.015	0.017	0.017	12:16:00 PM	0.026	0.027	0.027	0.029	0.029	0.006
12:17:00 PM	0.013	0.013	0.014	0.015	0.015	12:17:00 PM	0.023	0.024	0.024	0.025	0.026	0
12:18:00 PM	0.013	0.013	0.013	0.014	0.014	12:18:00 PM	0.017	0.017	0.018	0.02	0.02	0
12:19:00 PM	0.014	0.014	0.015	0.016	0.016	12:19:00 PM	0.014	0.015	0.015	0.016	0.016	0.004
12:20:00 PM	0.015	0.015	0.015	0.017	0.018	12:20:00 PM	0.015	0.016	0.016	0.018	0.018	-0.006
12:21:00 PM	0.015	0.016	0.016	0.018	0.019	12:21:00 PM	0.019	0.02	0.021	0.022	0.023	-0.012
12:22:00 PM	0.02	0.021	0.022	0.026	0.026	12:22:00 PM	0.017	0.018	0.018	0.02	0.02	-0.006
12:23:00 PM	0.022	0.023	0.024	0.026	0.026	12:23:00 PM	0.013	0.013	0.014	0.014	0.014	0.002
12:24:00 PM	0.017	0.017	0.018	0.019	0.02	12:24:00 PM	0.013	0.013	0.014	0.014	0.014	0.042
12:25:00 PM	0.014	0.014	0.014	0.016	0.016	12:25:00 PM	0.015	0.016	0.016	0.017	0.018	0.01
12:26:00 PM	0.013	0.013	0.013	0.014	0.014	12:26:00 PM	0.032	0.035	0.041	0.054	0.056	-0.003
12:27:00 PM	0.015	0.016	0.016	0.018	0.018	12:27:00 PM	0.019	0.02	0.022	0.026	0.028	-0.001
12:28:00 PM	0.017	0.018	0.019	0.021	0.021	12:28:00 PM	0.015	0.016	0.017	0.018	0.018	0.009

12:29:00 PM	0.016	0.016	0.017	0.019	0.019
12:30:00 PM	0.016	0.016	0.017	0.019	0.019
12:31:00 PM	0.015	0.016	0.016	0.018	0.018
12:32:00 PM	0.018	0.019	0.02	0.022	0.023
12:33:00 PM	0.016	0.017	0.018	0.02	0.02
12:34:00 PM	0.015	0.015	0.016	0.018	0.018
12:35:00 PM	0.016	0.016	0.017	0.019	0.019
12:36:00 PM	0.017	0.017	0.018	0.019	0.019
12:37:00 PM	0.015	0.015	0.016	0.017	0.017
12:38:00 PM	0.016	0.016	0.017	0.019	0.019
12:39:00 PM	0.016	0.016	0.017	0.018	0.018
12:40:00 PM	0.016	0.016	0.017	0.019	0.019
12:41:00 PM	0.015	0.016	0.016	0.018	0.018
12:42:00 PM	0.015	0.015	0.016	0.017	0.017
12:43:00 PM	0.017	0.018	0.019	0.021	0.021
12:44:00 PM	0.017	0.018	0.019	0.02	0.02
12:45:00 PM	0.017	0.018	0.018	0.02	0.02
12:46:00 PM	0.02	0.021	0.022	0.023	0.023
12:47:00 PM	0.016	0.017	0.018	0.019	0.019
12:48:00 PM	0.015	0.015	0.016	0.017	0.017
12:49:00 PM	0.014	0.014	0.014	0.015	0.015
12:50:00 PM	0.015	0.015	0.015	0.016	0.016
12:51:00 PM	0.018	0.018	0.019	0.021	0.021
12:52:00 PM	0.02	0.021	0.022	0.024	0.024
12:53:00 PM	0.016	0.016	0.017	0.018	0.018
12:54:00 PM	0.016	0.016	0.016	0.017	0.017
12:55:00 PM	0.017	0.017	0.018	0.019	0.019
12:56:00 PM	0.019	0.02	0.021	0.023	0.023
12:57:00 PM	0.016	0.017	0.018	0.019	0.02
12:58:00 PM	0.015	0.015	0.015	0.016	0.017
12:59:00 PM	0.015	0.015	0.015	0.016	0.016
1:00:00 PM	0.014	0.014	0.015	0.015	0.015
1:01:00 PM	0.014	0.014	0.014	0.015	0.015
1:02:00 PM	0.014	0.014	0.014	0.015	0.015
1:03:00 PM	0.015	0.016	0.016	0.017	0.017
1:04:00 PM	0.018	0.018	0.019	0.021	0.021
1:05:00 PM	0.015	0.015	0.016	0.017	0.017
1:06:00 PM	0.016	0.016	0.017	0.018	0.018
1:07:00 PM	0.02	0.021	0.023	0.028	0.029
1:08:00 PM	0.016	0.017	0.017	0.02	0.02
1:09:00 PM	0.017	0.017	0.018	0.019	0.019
1:10:00 PM	0.028	0.028	0.029	0.031	0.031
1:11:00 PM	0.022	0.023	0.025	0.028	0.029
1:12:00 PM	0.019	0.02	0.021	0.026	0.026
1:13:00 PM	0.017	0.017	0.018	0.019	0.019
1:14:00 PM	0.022	0.022	0.023	0.026	0.026
1:15:00 PM	0.02	0.02	0.021	0.022	0.022
1:16:00 PM	0.016	0.017	0.018	0.021	0.021
1:17:00 PM	0.013	0.014	0.014	0.016	0.016
1:18:00 PM	0.014	0.015	0.015	0.017	0.017
1:19:00 PM	0.022	0.022	0.023	0.024	0.024
1:20:00 PM	0.013	0.014	0.014	0.014	0.014
1:21:00 PM	0.015	0.016	0.016	0.017	0.018
1:22:00 PM	0.012	0.012	0.012	0.013	0.013
1:23:00 PM	0.03	0.03	0.031	0.033	0.034
1:24:00 PM	0.035	0.035	0.036	0.039	0.039
1:25:00 PM	0.019	0.019	0.02	0.021	0.021
1:26:00 PM	0.013	0.014	0.014	0.015	0.015
1:27:00 PM	0.012	0.013	0.013	0.014	0.014
1:28:00 PM	0.014	0.014	0.014	0.015	0.015
1:29:00 PM	0.013	0.013	0.013	0.014	0.014
1:30:00 PM	0.013	0.013	0.014	0.015	0.015
1:31:00 PM	0.014	0.015	0.015	0.017	0.017
1:32:00 PM	0.013	0.013	0.014	0.015	0.015
1:33:00 PM	0.014	0.014	0.015	0.016	0.016
1:34:00 PM	0.015	0.016	0.016	0.017	0.017

12:29:00 PM	0.016	0.017	0.017	0.018	0.018
12:30:00 PM	0.021	0.022	0.024	0.028	0.028
12:31:00 PM	0.022	0.024	0.026	0.03	0.031
12:32:00 PM	0.017	0.018	0.019	0.021	0.021
12:33:00 PM	0.015	0.015	0.016	0.017	0.017
12:34:00 PM	0.015	0.016	0.016	0.017	0.017
12:35:00 PM	0.017	0.018	0.018	0.019	0.019
12:36:00 PM	0.014	0.015	0.016	0.016	0.016
12:37:00 PM	0.015	0.016	0.016	0.017	0.017
12:38:00 PM	0.015	0.015	0.016	0.017	0.017
12:39:00 PM	0.015	0.015	0.016	0.017	0.017
12:40:00 PM	0.015	0.015	0.016	0.017	0.017
12:41:00 PM	0.015	0.016	0.016	0.017	0.017
12:42:00 PM	0.016	0.017	0.018	0.019	0.02
12:43:00 PM	0.015	0.016	0.017	0.017	0.017
12:44:00 PM	0.017	0.018	0.018	0.019	0.02
12:45:00 PM	0.016	0.017	0.018	0.018	0.018
12:46:00 PM	0.017	0.018	0.018	0.019	0.019
12:47:00 PM	0.015	0.015	0.016	0.016	0.016
12:48:00 PM	0.019	0.02	0.02	0.021	0.021
12:49:00 PM	0.019	0.02	0.021	0.022	0.022
12:50:00 PM	0.05	0.057	0.065	0.08	0.081
12:51:00 PM	0.02	0.02	0.021	0.021	0.021
12:52:00 PM	0.021	0.021	0.021	0.022	0.022
12:53:00 PM	0.03	0.03	0.031	0.032	0.032
12:54:00 PM	0.025	0.026	0.027	0.028	0.028
12:55:00 PM	0.022	0.024	0.024	0.025	0.025
12:56:00 PM	0.021	0.023	0.024	0.026	0.026
12:57:00 PM	0.096	0.105	0.112	0.127	0.128
12:58:00 PM	0.036	0.039	0.042	0.049	0.049
12:59:00 PM	0.018	0.018	0.018	0.019	0.019
1:00:00 PM	0.02	0.021	0.021	0.021	0.021
1:01:00 PM	0.017	0.017	0.017	0.018	0.018
1:02:00 PM	0.02	0.021	0.022	0.023	0.023
1:03:00 PM	0.031	0.033	0.034	0.035	0.035
1:04:00 PM	0.086	0.091	0.092	0.094	0.094
1:05:00 PM	0.019	0.02	0.021	0.023	0.023
1:06:00 PM	0.015	0.016	0.016	0.017	0.017
1:07:00 PM	0.015	0.016	0.016	0.017	0.018
1:08:00 PM	0.017	0.018	0.018	0.019	0.019
1:09:00 PM	0.025	0.027	0.028	0.03	0.031
1:10:00 PM	0.014	0.014	0.014	0.015	0.015
1:11:00 PM	0.013	0.013	0.014	0.014	0.014
1:12:00 PM	0.016	0.016	0.017	0.017	0.017
1:13:00 PM	0.012	0.012	0.013	0.013	0.013
1:14:00 PM	0.012	0.012	0.012	0.013	0.013
1:15:00 PM	0.012	0.012	0.012	0.013	0.013
1:16:00 PM	0.02	0.021	0.022	0.026	0.026
1:17:00 PM	0.028	0.029	0.03	0.032	0.033
1:18:00 PM	0.023	0.024	0.024	0.025	0.025
1:19:00 PM	0.023	0.024	0.024	0.025	0.025
1:20:00 PM	0.02	0.021	0.022	0.023	0.023
1:21:00 PM	0.016	0.017	0.018	0.019	0.019
1:22:00 PM	0.017	0.018	0.018	0.02	0.02
1:23:00 PM	0.013	0.013	0.013	0.014	0.014
1:24:00 PM	0.016	0.017	0.018	0.019	0.019
1:25:00 PM	0.019	0.02	0.021	0.022	0.022
1:26:00 PM	0.017	0.018	0.019	0.021	0.021
1:27:00 PM	0.019	0.02	0.02	0.021	0.021
1:28:00 PM	0.02	0.021	0.022	0.023	0.024
1:29:00 PM	0.017	0.018	0.018	0.02	0.02
1:30:00 PM	0.016	0.017	0.017	0.019	0.019
1:31:00 PM	0.017	0.018	0.018	0.019	0.019
1:32:00 PM	0.016	0.016	0.017	0.017	0.017
1:33:00 PM	0.021	0.021	0.022	0.023	0.023
1:34:00 PM	0.02	0.021	0.021	0.022	0.023

0.013
-0.002
-0.003
-0.001
0
-0.003
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-0.002
-0.001
-0.002
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-0.015
-0.009
-0.006
-0.013
-0.009
0.005
0.017
0.008
0.001
0.009
0.001
0.007
-0.02
-0.02
0.001
0.006
0.007
0.009
0.006
0.004
0.002
0.002
0.007
0.006
0.067
-0.002

1:35:00 PM	0.017	0.017	0.018	0.019	0.019	1:35:00 PM	0.082	0.085	0.085	0.086	0.086	0
1:36:00 PM	0.017	0.018	0.018	0.02	0.02	1:36:00 PM	0.016	0.016	0.017	0.017	0.018	0.005
1:37:00 PM	0.015	0.015	0.016	0.017	0.017	1:37:00 PM	0.016	0.017	0.017	0.017	0.017	0.004
1:38:00 PM	0.014	0.014	0.014	0.015	0.015	1:38:00 PM	0.019	0.019	0.02	0.02	0.02	0.012
1:39:00 PM	0.013	0.014	0.014	0.015	0.015	1:39:00 PM	0.018	0.018	0.019	0.019	0.019	0.005
1:40:00 PM	0.013	0.013	0.014	0.014	0.014	1:40:00 PM	0.023	0.024	0.025	0.026	0.026	0.001
1:41:00 PM	0.014	0.014	0.014	0.015	0.015	1:41:00 PM	0.016	0.017	0.018	0.02	0.02	-0.001
1:42:00 PM	0.013	0.013	0.014	0.014	0.014	1:42:00 PM	0.014	0.014	0.014	0.015	0.015	0.001
1:43:00 PM	0.014	0.014	0.014	0.015	0.015	1:43:00 PM	0.013	0.014	0.014	0.014	0.014	0.001
1:44:00 PM	0.013	0.013	0.014	0.014	0.014	1:44:00 PM	0.014	0.014	0.015	0.015	0.015	0.002
1:45:00 PM	0.014	0.014	0.015	0.015	0.015	1:45:00 PM	0.014	0.015	0.015	0.016	0.016	-0.004
1:46:00 PM	0.014	0.014	0.014	0.016	0.016	1:46:00 PM	0.016	0.017	0.017	0.018	0.018	-0.003
1:47:00 PM	0.017	0.017	0.018	0.02	0.02	1:47:00 PM	0.014	0.015	0.015	0.016	0.016	0.002
1:48:00 PM	0.015	0.016	0.016	0.018	0.018	1:48:00 PM	0.014	0.014	0.015	0.015	0.015	-0.001
1:49:00 PM	0.013	0.014	0.014	0.014	0.014	1:49:00 PM	0.014	0.015	0.015	0.016	0.016	-0.007
1:50:00 PM	0.013	0.014	0.014	0.015	0.015	1:50:00 PM	0.013	0.013	0.014	0.014	0.014	-0.006
1:51:00 PM	0.017	0.017	0.018	0.021	0.021	1:51:00 PM	0.013	0.014	0.014	0.014	0.014	0.001
1:52:00 PM	0.015	0.016	0.017	0.019	0.02	1:52:00 PM	0.013	0.014	0.014	0.014	0.014	0.001
1:53:00 PM	0.014	0.014	0.014	0.015	0.015	1:53:00 PM	0.014	0.014	0.015	0.016	0.016	-0.001
1:54:00 PM	0.013	0.013	0.014	0.014	0.014	1:54:00 PM	0.013	0.014	0.014	0.015	0.015	0
1:55:00 PM	0.014	0.014	0.014	0.015	0.015	1:55:00 PM	0.013	0.013	0.013	0.014	0.014	-0.001
1:56:00 PM	0.014	0.014	0.014	0.015	0.015	1:56:00 PM	0.013	0.013	0.014	0.014	0.015	0
1:57:00 PM	0.013	0.013	0.013	0.014	0.014	1:57:00 PM	0.012	0.012	0.013	0.013	0.013	0.001
1:58:00 PM	0.014	0.014	0.015	0.016	0.016	1:58:00 PM	0.013	0.014	0.014	0.015	0.016	0.002
1:59:00 PM	0.013	0.013	0.013	0.014	0.014	1:59:00 PM	0.013	0.014	0.014	0.015	0.015	0.002
2:00:00 PM	0.013	0.013	0.014	0.014	0.014	2:00:00 PM	0.014	0.015	0.015	0.016	0.016	0.002
2:01:00 PM	0.013	0.014	0.014	0.015	0.015	2:01:00 PM	0.014	0.015	0.016	0.016	0.017	0.002
2:02:00 PM	0.014	0.014	0.014	0.015	0.015	2:02:00 PM	0.014	0.015	0.015	0.016	0.017	-0.001
2:03:00 PM	0.014	0.014	0.014	0.015	0.015	2:03:00 PM	0.015	0.015	0.016	0.017	0.017	-0.003
2:04:00 PM	0.015	0.015	0.016	0.017	0.017	2:04:00 PM	0.014	0.015	0.016	0.016	0.016	-0.003
2:05:00 PM	0.015	0.015	0.016	0.017	0.018	2:05:00 PM	0.013	0.014	0.014	0.015	0.015	0.002
2:06:00 PM	0.015	0.015	0.016	0.017	0.017	2:06:00 PM	0.013	0.014	0.014	0.014	0.014	-0.001
2:07:00 PM	0.014	0.014	0.014	0.015	0.015	2:07:00 PM	0.014	0.015	0.015	0.016	0.017	0.006
2:08:00 PM	0.014	0.014	0.014	0.015	0.015	2:08:00 PM	0.013	0.014	0.014	0.014	0.014	0.012
2:09:00 PM	0.013	0.014	0.014	0.015	0.015	2:09:00 PM	0.017	0.018	0.019	0.02	0.021	0.008
2:10:00 PM	0.013	0.014	0.014	0.015	0.015	2:10:00 PM	0.02	0.021	0.023	0.027	0.027	-0.008
2:11:00 PM	0.015	0.016	0.016	0.019	0.019	2:11:00 PM	0.02	0.022	0.023	0.026	0.027	-0.011
2:12:00 PM	0.022	0.023	0.025	0.03	0.03	2:12:00 PM	0.017	0.018	0.019	0.021	0.022	-0.008
2:13:00 PM	0.022	0.022	0.024	0.028	0.028	2:13:00 PM	0.015	0.016	0.016	0.017	0.017	-0.004
2:14:00 PM	0.019	0.02	0.021	0.024	0.024	2:14:00 PM	0.014	0.015	0.015	0.016	0.016	-0.001
2:15:00 PM	0.015	0.016	0.016	0.018	0.019	2:15:00 PM	0.014	0.014	0.014	0.015	0.015	-0.001
2:16:00 PM	0.014	0.014	0.015	0.016	0.016	2:16:00 PM	0.014	0.014	0.014	0.015	0.015	0.001
2:17:00 PM	0.014	0.014	0.015	0.016	0.016	2:17:00 PM	0.014	0.014	0.015	0.015	0.015	0
2:18:00 PM	0.014	0.014	0.014	0.015	0.015	2:18:00 PM	0.014	0.014	0.015	0.015	0.016	0
2:19:00 PM	0.014	0.014	0.014	0.015	0.015	2:19:00 PM	0.014	0.014	0.014	0.015	0.015	0
2:20:00 PM	0.014	0.014	0.014	0.015	0.015	2:20:00 PM	0.014	0.014	0.015	0.015	0.015	0
2:21:00 PM	0.014	0.014	0.014	0.015	0.015	2:21:00 PM	0.014	0.014	0.014	0.015	0.015	0
2:22:00 PM	0.014	0.014	0.014	0.016	0.016	2:22:00 PM	0.014	0.014	0.014	0.015	0.016	0
2:23:00 PM	0.014	0.014	0.014	0.015	0.015	2:23:00 PM	0.014	0.014	0.014	0.015	0.015	0.002
2:24:00 PM	0.014	0.014	0.014	0.015	0.015	2:24:00 PM	0.014	0.014	0.014	0.015	0.015	0.002
2:25:00 PM	0.014	0.014	0.014	0.015	0.015	2:25:00 PM	0.015	0.015	0.016	0.017	0.017	-0.001
2:26:00 PM	0.015	0.015	0.015	0.016	0.016	2:26:00 PM	0.016	0.016	0.017	0.018	0.018	-0.006
2:27:00 PM	0.015	0.016	0.016	0.018	0.018	2:27:00 PM	0.015	0.015	0.016	0.017	0.017	-0.001
2:28:00 PM	0.018	0.019	0.02	0.022	0.022	2:28:00 PM	0.015	0.015	0.016	0.016	0.016	0.001
2:29:00 PM	0.015	0.016	0.016	0.017	0.017	2:29:00 PM	0.015	0.015	0.015	0.016	0.016	0
2:30:00 PM	0.015	0.015	0.015	0.016	0.016	2:30:00 PM	0.015	0.016	0.016	0.017	0.017	0.004
2:31:00 PM	0.015	0.015	0.016	0.017	0.017	2:31:00 PM	0.016	0.016	0.017	0.017	0.017	0.001
2:32:00 PM	0.016	0.016	0.016	0.017	0.017	2:32:00 PM	0.019	0.019	0.02	0.021	0.021	-0.001
2:33:00 PM	0.016	0.016	0.017	0.017	0.017	2:33:00 PM	0.017	0.017	0.017	0.018	0.018	-0.001
2:34:00 PM	0.017	0.018	0.018	0.019	0.019	2:34:00 PM	0.016	0.017	0.017	0.018	0.018	0
2:35:00 PM	0.017	0.017	0.017	0.018	0.018	2:35:00 PM	0.016	0.017	0.017	0.017	0.017	-0.001
2:36:00 PM	0.016	0.016	0.017	0.017	0.017	2:36:00 PM	0.016	0.016	0.017	0.017	0.017	-0.002
2:37:00 PM	0.016	0.017	0.017	0.018	0.018	2:37:00 PM	0.016	0.017	0.017	0.017	0.017	-0.001
2:38:00 PM	0.017	0.017	0.018	0.019	0.019	2:38:00 PM	0.016	0.016	0.016	0.017	0.017	0
2:39:00 PM	0.016	0.017	0.017	0.018	0.018	2:39:00 PM	0.016	0.016	0.017	0.017	0.017	-0.001
2:40:00 PM	0.016	0.016	0.017	0.017	0.017	2:40:00 PM	0.016	0.017	0.017	0.017	0.017	-0.003

2:41:00 PM	0.016	0.016	0.016	0.017	0.017	2:41:00 PM	0.015	0.015	0.016	0.016	0.016	-0.001
2:42:00 PM	0.016	0.016	0.017	0.018	0.018	2:42:00 PM	0.014	0.014	0.015	0.015	0.015	0
2:43:00 PM	0.015	0.015	0.016	0.017	0.017	2:43:00 PM	0.015	0.015	0.015	0.016	0.016	0.001
2:44:00 PM	0.015	0.015	0.015	0.016	0.016	2:44:00 PM	0.015	0.015	0.016	0.016	0.016	0
2:45:00 PM	0.014	0.015	0.015	0.016	0.016	2:45:00 PM	0.016	0.016	0.016	0.017	0.017	0
2:46:00 PM	0.015	0.015	0.015	0.016	0.016	2:46:00 PM	0.015	0.015	0.016	0.016	0.016	0
2:47:00 PM	0.015	0.015	0.016	0.016	0.016	2:47:00 PM	0.015	0.016	0.016	0.016	0.016	0
2:48:00 PM	0.016	0.016	0.016	0.017	0.017	2:48:00 PM	0.015	0.016	0.016	0.017	0.017	0.001
2:49:00 PM	0.015	0.015	0.016	0.017	0.017	2:49:00 PM	0.016	0.016	0.017	0.017	0.017	-0.001
2:50:00 PM	0.015	0.015	0.016	0.016	0.016	2:50:00 PM	0.016	0.016	0.016	0.017	0.017	0.001
2:51:00 PM	0.017	0.017	0.018	0.019	0.019	2:51:00 PM	0.016	0.017	0.017	0.018	0.018	-0.004
2:52:00 PM	0.017	0.017	0.018	0.019	0.019	2:52:00 PM	0.018	0.018	0.019	0.02	0.02	-0.003
2:53:00 PM	0.019	0.019	0.02	0.022	0.023	2:53:00 PM	0.017	0.018	0.018	0.019	0.019	-0.004
2:54:00 PM	0.02	0.021	0.022	0.025	0.025	2:54:00 PM	0.019	0.02	0.02	0.022	0.022	-0.006
2:55:00 PM	0.02	0.02	0.021	0.024	0.024	2:55:00 PM	0.018	0.018	0.019	0.019	0.02	-0.001
2:56:00 PM	0.02	0.021	0.022	0.024	0.024	2:56:00 PM	0.016	0.017	0.017	0.018	0.018	0.001
2:57:00 PM	0.017	0.018	0.018	0.019	0.019	2:57:00 PM	0.016	0.017	0.017	0.018	0.018	-0.002
2:58:00 PM	0.017	0.017	0.017	0.018	0.018	2:58:00 PM	0.017	0.017	0.018	0.019	0.019	-0.001
2:59:00 PM	0.018	0.018	0.019	0.02	0.02	2:59:00 PM	0.017	0.017	0.017	0.018	0.018	0
3:00:00 PM	0.017	0.018	0.018	0.019	0.019	3:00:00 PM	0.017	0.017	0.017	0.018	0.018	-0.001
3:01:00 PM	0.017	0.017	0.018	0.019	0.019	3:01:00 PM	0.017	0.018	0.018	0.018	0.019	-0.001
3:02:00 PM	0.017	0.017	0.018	0.019	0.019	3:02:00 PM	0.017	0.017	0.018	0.018	0.018	-0.001
3:03:00 PM	0.017	0.018	0.018	0.019	0.019	3:03:00 PM	0.017	0.017	0.017	0.018	0.018	-0.001
3:04:00 PM	0.017	0.018	0.018	0.019	0.019	3:04:00 PM	0.017	0.017	0.017	0.018	0.018	0
3:05:00 PM	0.017	0.017	0.018	0.019	0.019	3:05:00 PM	0.017	0.017	0.017	0.018	0.018	0
3:06:00 PM	0.017	0.017	0.018	0.019	0.019	3:06:00 PM	0.017	0.017	0.018	0.019	0.019	-0.004
3:07:00 PM	0.017	0.017	0.018	0.019	0.019	3:07:00 PM	0.017	0.018	0.018	0.018	0.019	-0.004
3:08:00 PM	0.019	0.019	0.02	0.023	0.023	3:08:00 PM	0.017	0.018	0.018	0.019	0.019	0
3:09:00 PM	0.019	0.019	0.02	0.022	0.022	3:09:00 PM	0.016	0.017	0.017	0.018	0.018	0.001
3:10:00 PM	0.018	0.019	0.02	0.022	0.022	3:10:00 PM	0.019	0.019	0.02	0.021	0.022	0
3:11:00 PM	0.017	0.017	0.017	0.018	0.018	3:11:00 PM	0.017	0.018	0.018	0.019	0.019	-0.019
3:12:00 PM	0.016	0.016	0.017	0.018	0.018	3:12:00 PM	0.017	0.017	0.018	0.018	0.018	0
3:13:00 PM	0.037	0.037	0.038	0.039	0.039	3:13:00 PM	0.017	0.018	0.018	0.02	0.02	-0.001
3:14:00 PM	0.021	0.021	0.021	0.022	0.022	3:14:00 PM	0.019	0.02	0.02	0.021	0.022	-0.002
3:15:00 PM	0.019	0.019	0.02	0.021	0.021	3:15:00 PM	0.019	0.019	0.019	0.02	0.02	-0.011
3:16:00 PM	0.02	0.02	0.021	0.022	0.022	3:16:00 PM	0.018	0.019	0.019	0.019	0.02	-0.006
3:17:00 PM	0.025	0.026	0.027	0.03	0.03	3:17:00 PM	0.018	0.018	0.018	0.019	0.019	-0.001
3:18:00 PM	0.022	0.023	0.023	0.025	0.025	3:18:00 PM	0.018	0.018	0.018	0.019	0.019	-0.028
3:19:00 PM	0.02	0.021	0.021	0.022	0.022	3:19:00 PM	0.019	0.02	0.02	0.021	0.021	-0.045
3:20:00 PM	0.037	0.039	0.042	0.049	0.049	3:20:00 PM	0.019	0.019	0.02	0.02	0.021	-0.025
3:21:00 PM	0.047	0.05	0.055	0.065	0.066	3:21:00 PM	0.019	0.02	0.02	0.021	0.021	-0.028
3:22:00 PM	0.033	0.034	0.037	0.043	0.044	3:22:00 PM	0.018	0.018	0.018	0.019	0.019	-0.019
3:23:00 PM	0.033	0.034	0.038	0.046	0.046	3:23:00 PM	0.017	0.018	0.018	0.018	0.018	-0.007
3:24:00 PM	0.028	0.029	0.032	0.036	0.036	3:24:00 PM	0.016	0.016	0.017	0.017	0.017	-0.002
3:25:00 PM	0.022	0.022	0.023	0.025	0.025	3:25:00 PM	0.017	0.017	0.018	0.018	0.018	-0.023
3:26:00 PM	0.018	0.019	0.019	0.021	0.021	3:26:00 PM	0.018	0.018	0.018	0.019	0.019	-0.02
3:27:00 PM	0.034	0.035	0.038	0.045	0.045	3:27:00 PM	0.019	0.02	0.02	0.022	0.022	0.003
3:28:00 PM	0.03	0.031	0.034	0.041	0.041	3:28:00 PM	0.019	0.02	0.02	0.021	0.021	0.016
3:29:00 PM	0.019	0.019	0.02	0.021	0.021	3:29:00 PM	0.022	0.023	0.023	0.024	0.024	0.006
3:30:00 PM	0.017	0.017	0.017	0.018	0.018	3:30:00 PM	0.028	0.03	0.031	0.034	0.034	0.007
3:31:00 PM	0.018	0.018	0.019	0.02	0.02	3:31:00 PM	0.022	0.023	0.024	0.025	0.026	0
3:32:00 PM	0.018	0.019	0.019	0.019	0.019	3:32:00 PM	0.023	0.024	0.024	0.025	0.026	0
3:33:00 PM	0.02	0.02	0.02	0.022	0.022	3:33:00 PM	0.02	0.021	0.021	0.022	0.022	-0.001
3:34:00 PM	0.019	0.019	0.02	0.021	0.021	3:34:00 PM	0.019	0.019	0.02	0.02	0.021	-0.003
3:35:00 PM	0.019	0.02	0.02	0.022	0.022	3:35:00 PM	0.019	0.02	0.02	0.021	0.021	-0.003
3:36:00 PM	0.019	0.019	0.02	0.022	0.022	3:36:00 PM	0.017	0.018	0.018	0.019	0.019	0
3:37:00 PM	0.018	0.019	0.019	0.021	0.021	3:37:00 PM	0.017	0.017	0.018	0.018	0.018	-0.003
3:38:00 PM	0.018	0.018	0.019	0.02	0.02	3:38:00 PM	0.018	0.019	0.019	0.02	0.02	-0.002
3:39:00 PM	0.019	0.019	0.02	0.021	0.021	3:39:00 PM	0.017	0.018	0.018	0.018	0.018	-0.005
3:40:00 PM	0.019	0.019	0.02	0.02	0.021	3:40:00 PM	0.018	0.018	0.018	0.019	0.019	-0.004
3:41:00 PM	0.022	0.022	0.023	0.024	0.024	3:41:00 PM	0.017	0.018	0.018	0.019	0.019	-0.003
3:42:00 PM	0.02	0.021	0.021	0.022	0.022	3:42:00 PM	0.016	0.017	0.017	0.018	0.018	-0.006
3:43:00 PM	0.019	0.02	0.02	0.021	0.021	3:43:00 PM	0.016	0.017	0.017	0.018	0.018	-0.008
3:44:00 PM	0.021	0.021	0.022	0.023	0.023	3:44:00 PM	0.016	0.016	0.017	0.017	0.017	-0.002
3:45:00 PM	0.023	0.023	0.024	0.026	0.026	3:45:00 PM	0.017	0.017	0.018	0.018	0.018	-0.002
3:46:00 PM	0.019	0.019	0.02	0.021	0.021	3:46:00 PM	0.017	0.018	0.018	0.019	0.019	0.001

3:47:00 PM	0.018	0.018	0.019	0.02	0.02	3:47:00 PM	0.017	0.017	0.018	0.018	0.018	0
3:48:00 PM	0.017	0.017	0.018	0.018	0.018	3:48:00 PM	0.017	0.017	0.018	0.018	0.019	0.001
3:49:00 PM	0.018	0.018	0.018	0.02	0.02	3:49:00 PM	0.018	0.019	0.019	0.02	0.02	-0.001
3:50:00 PM	0.018	0.018	0.018	0.019	0.019	3:50:00 PM	0.019	0.019	0.02	0.02	0.02	-0.004
3:51:00 PM	0.018	0.018	0.018	0.02	0.02	3:51:00 PM	0.017	0.018	0.018	0.019	0.019	0
3:52:00 PM	0.022	0.023	0.023	0.024	0.024	3:52:00 PM	0.019	0.019	0.02	0.02	0.02	-0.002
3:53:00 PM	0.019	0.02	0.02	0.021	0.021	3:53:00 PM	0.019	0.02	0.02	0.021	0.021	0
3:54:00 PM	0.018	0.019	0.019	0.02	0.02	3:54:00 PM	0.016	0.017	0.017	0.018	0.018	-0.001
3:55:00 PM	0.017	0.017	0.017	0.019	0.019	3:55:00 PM	0.017	0.018	0.018	0.018	0.019	-0.005
3:56:00 PM	0.018	0.018	0.019	0.02	0.02	3:56:00 PM	0.017	0.017	0.017	0.018	0.019	-0.004
3:57:00 PM	0.023	0.023	0.024	0.025	0.025	3:57:00 PM	0.018	0.019	0.019	0.02	0.02	-0.004
3:58:00 PM	0.022	0.023	0.024	0.026	0.026	3:58:00 PM	0.019	0.019	0.02	0.021	0.022	0
3:59:00 PM	0.019	0.019	0.02	0.021	0.021	3:59:00 PM	0.016	0.017	0.017	0.017	0.017	-0.002
4:00:00 PM	0.018	0.018	0.019	0.02	0.02	4:00:00 PM	0.018	0.019	0.019	0.02	0.02	-0.006
4:01:00 PM	0.017	0.017	0.018	0.019	0.019	4:01:00 PM	0.015	0.016	0.016	0.017	0.017	0.013
4:02:00 PM	0.025	0.025	0.026	0.028	0.028	4:02:00 PM	0.019	0.02	0.02	0.022	0.022	0.002
4:03:00 PM	0.025	0.026	0.027	0.031	0.031	4:03:00 PM	0.033	0.036	0.038	0.044	0.044	0.01
4:04:00 PM	0.02	0.021	0.022	0.024	0.024	4:04:00 PM	0.023	0.024	0.024	0.026	0.026	0.004
4:05:00 PM	0.02	0.02	0.021	0.023	0.023	4:05:00 PM	0.028	0.03	0.031	0.033	0.033	0.005
4:06:00 PM	0.02	0.021	0.022	0.023	0.024	4:06:00 PM	0.025	0.026	0.027	0.028	0.028	0.021
4:07:00 PM	0.026	0.026	0.027	0.03	0.031	4:07:00 PM	0.026	0.028	0.03	0.035	0.036	0
4:08:00 PM	0.022	0.022	0.023	0.025	0.025	4:08:00 PM	0.033	0.036	0.038	0.045	0.046	-0.022
4:09:00 PM	0.025	0.026	0.028	0.033	0.033	4:09:00 PM	0.025	0.026	0.028	0.032	0.033	-0.016
4:10:00 PM	0.031	0.032	0.034	0.043	0.044	4:10:00 PM	0.017	0.018	0.019	0.021	0.022	-0.023
4:11:00 PM	0.026	0.027	0.029	0.035	0.035	4:11:00 PM	0.016	0.017	0.017	0.018	0.019	-0.013
4:12:00 PM	0.03	0.031	0.033	0.039	0.04	4:12:00 PM	0.016	0.016	0.017	0.017	0.017	-0.005
4:13:00 PM	0.023	0.024	0.025	0.028	0.028	4:13:00 PM	0.014	0.014	0.015	0.015	0.015	0
4:14:00 PM	0.019	0.02	0.02	0.021	0.021	4:14:00 PM	0.014	0.014	0.015	0.015	0.016	-0.008
4:15:00 PM	0.016	0.016	0.017	0.017	0.017	4:15:00 PM	0.015	0.015	0.015	0.016	0.017	-0.014
4:16:00 PM	0.021	0.021	0.022	0.024	0.024	4:16:00 PM	0.015	0.015	0.015	0.016	0.016	-0.007
4:17:00 PM	0.027	0.027	0.028	0.03	0.03	4:17:00 PM	0.015	0.015	0.016	0.016	0.016	-0.008
4:18:00 PM	0.022	0.022	0.022	0.023	0.023	4:18:00 PM	0.014	0.015	0.015	0.016	0.016	-0.005
4:19:00 PM	0.021	0.021	0.022	0.023	0.023	4:19:00 PM	0.014	0.014	0.015	0.015	0.015	-0.017
4:20:00 PM	0.017	0.018	0.018	0.019	0.019	4:20:00 PM	0.014	0.014	0.014	0.014	0.014	-0.015
4:21:00 PM	0.015	0.015	0.016	0.017	0.017							-0.015
4:22:00 PM	0.014	0.014	0.014	0.015	0.015							
4:23:00 PM	0.014	0.014	0.015	0.015	0.015							

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/13/2014
Test Name	MANUAL_005
Test Start Time	11:08:40 AM
Test Start Date	10/13/2014
Test Length [D:H:M]	0:04:54
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.011
PM1 Minimum [mg/m3]	0.008
PM1 Maximum [mg/m3]	0.055
PM1 TWA [mg/m3]	0.007
PM2.5 Average [mg/m3]	0.011
PM2.5 Minimum [mg/m3]	0.008
PM2.5 Maximum [mg/m3]	0.056
PM2.5 TWA [mg/m3]	0.007
PM4 Average [mg/m3]	0.011
PM4 Minimum [mg/m3]	0.009
PM4 Maximum [mg/m3]	0.056
PM4 TWA [mg/m3]	0.007
PM10 Average [mg/m3]	0.012
PM10 Minimum [mg/m3]	0.009
PM10 Maximum [mg/m3]	0.058
PM10 TWA [mg/m3]	0.007
TOTAL Average [mg/m3]	0.012
TOTAL Minimum [mg/m3]	0.009
TOTAL Maximum [mg/m3]	0.058
TOTAL TWA [mg/m3]	0.007
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	294

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg	Alarms
11:08:00 AM	0.015	0.015	0.015	0.021	0.023	
11:09:00 AM	0.011	0.011	0.011	0.011	0.011	
11:10:00 AM	0.011	0.011	0.011	0.012	0.012	
11:11:00 AM	0.011	0.011	0.011	0.012	0.012	
11:12:00 AM	0.01	0.011	0.011	0.011	0.011	
11:13:00 AM	0.011	0.011	0.011	0.012	0.012	
11:14:00 AM	0.01	0.01	0.01	0.011	0.011	
11:15:00 AM	0.011	0.011	0.011	0.012	0.012	
11:16:00 AM	0.011	0.011	0.011	0.012	0.012	
11:17:00 AM	0.011	0.011	0.011	0.012	0.012	
11:18:00 AM	0.012	0.012	0.013	0.013	0.013	
11:19:00 AM	0.012	0.012	0.012	0.013	0.013	
11:20:00 AM	0.011	0.012	0.012	0.013	0.013	
11:21:00 AM	0.012	0.012	0.012	0.013	0.013	
11:22:00 AM	0.01	0.011	0.011	0.011	0.011	
11:23:00 AM	0.011	0.011	0.012	0.013	0.013	
11:24:00 AM	0.011	0.011	0.011	0.011	0.011	
11:25:00 AM	0.011	0.011	0.011	0.012	0.012	
11:26:00 AM	0.011	0.011	0.011	0.012	0.012	
11:27:00 AM	0.014	0.014	0.014	0.015	0.015	
11:28:00 AM	0.013	0.013	0.013	0.014	0.014	
11:29:00 AM	0.013	0.013	0.014	0.015	0.015	
11:30:00 AM	0.012	0.012	0.013	0.013	0.013	
11:31:00 AM	0.011	0.011	0.012	0.012	0.012	
11:32:00 AM	0.012	0.012	0.013	0.013	0.013	
11:33:00 AM	0.012	0.012	0.012	0.013	0.013	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/13/2014
Test Name	MANUAL_005
Test Start Time	11:31:19 AM
Test Start Date	10/13/2014
Test Length [D:H:M]	0:04:28
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.008
PM1 Minimum [mg/m3]	0.004
PM1 Maximum [mg/m3]	0.046
PM1 TWA [mg/m3]	0.004
PM2.5 Average [mg/m3]	0.008
PM2.5 Minimum [mg/m3]	0.005
PM2.5 Maximum [mg/m3]	0.048
PM2.5 TWA [mg/m3]	0.005
PM4 Average [mg/m3]	0.008
PM4 Minimum [mg/m3]	0.005
PM4 Maximum [mg/m3]	0.048
PM4 TWA [mg/m3]	0.005
PM10 Average [mg/m3]	0.009
PM10 Minimum [mg/m3]	0.005
PM10 Maximum [mg/m3]	0.049
PM10 TWA [mg/m3]	0.005
TOTAL Average [mg/m3]	0.009
TOTAL Minimum [mg/m3]	0.005
TOTAL Maximum [mg/m3]	0.05
TOTAL TWA [mg/m3]	0.005
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	268

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]	Alarms	Difference
							-0.023
							-0.011
							-0.012
							-0.012
							-0.011
							-0.012
							-0.011
							-0.012
							-0.012
							-0.013
							-0.013
							-0.013
							-0.013
							-0.011
							-0.013
							-0.011
							-0.012
							-0.012
							-0.015
							-0.014
							-0.015
							-0.013
							0.038
							-0.002
11:31:00 AM	0.045	0.046	0.046	0.049	0.05		0.003
11:32:00 AM	0.009	0.01	0.01	0.011	0.011		0.037
11:33:00 AM	0.015	0.015	0.016	0.016	0.016		0.007

11:34:00 AM	0.012	0.012	0.012	0.013	0.013	11:34:00 AM	0.046	0.048	0.048	0.049	0.05	-0.005
11:35:00 AM	0.012	0.012	0.012	0.013	0.013	11:35:00 AM	0.019	0.019	0.019	0.02	0.02	0.017
11:36:00 AM	0.011	0.012	0.012	0.012	0.012	11:36:00 AM	0.006	0.007	0.007	0.007	0.007	0.017
11:37:00 AM	0.01	0.011	0.011	0.011	0.011	11:37:00 AM	0.025	0.026	0.026	0.027	0.028	0.007
11:38:00 AM	0.011	0.011	0.011	0.012	0.012	11:38:00 AM	0.027	0.028	0.029	0.029	0.029	-0.007
11:39:00 AM	0.011	0.011	0.012	0.012	0.012	11:39:00 AM	0.018	0.018	0.018	0.019	0.019	-0.008
11:40:00 AM	0.012	0.012	0.013	0.014	0.014	11:40:00 AM	0.007	0.007	0.007	0.007	0.007	-0.002
11:41:00 AM	0.012	0.013	0.013	0.014	0.014	11:41:00 AM	0.006	0.006	0.006	0.006	0.006	-0.005
11:42:00 AM	0.011	0.011	0.012	0.012	0.012	11:42:00 AM	0.009	0.009	0.009	0.01	0.01	-0.007
11:43:00 AM	0.012	0.012	0.012	0.012	0.012	11:43:00 AM	0.007	0.007	0.007	0.007	0.007	-0.006
11:44:00 AM	0.012	0.012	0.013	0.013	0.013	11:44:00 AM	0.006	0.006	0.006	0.006	0.006	-0.005
11:45:00 AM	0.011	0.011	0.011	0.012	0.012	11:45:00 AM	0.006	0.006	0.006	0.006	0.006	-0.003
11:46:00 AM	0.011	0.011	0.011	0.011	0.011	11:46:00 AM	0.006	0.006	0.006	0.006	0.006	-0.001
11:47:00 AM	0.011	0.011	0.011	0.012	0.012	11:47:00 AM	0.008	0.009	0.009	0.009	0.009	-0.001
11:48:00 AM	0.011	0.011	0.012	0.012	0.012	11:48:00 AM	0.009	0.01	0.01	0.011	0.011	0.005
11:49:00 AM	0.01	0.01	0.01	0.011	0.011	11:49:00 AM	0.008	0.009	0.009	0.01	0.01	0.001
11:50:00 AM	0.01	0.01	0.01	0.01	0.01	11:50:00 AM	0.014	0.015	0.015	0.015	0.015	-0.004
11:51:00 AM	0.011	0.011	0.011	0.012	0.012	11:51:00 AM	0.012	0.013	0.013	0.013	0.013	0.006
11:52:00 AM	0.011	0.011	0.011	0.012	0.012	11:52:00 AM	0.008	0.008	0.008	0.008	0.008	-0.003
11:53:00 AM	0.01	0.01	0.01	0.011	0.011	11:53:00 AM	0.016	0.017	0.017	0.017	0.017	-0.003
11:54:00 AM	0.011	0.011	0.011	0.012	0.012	11:54:00 AM	0.008	0.009	0.009	0.009	0.009	-0.006
11:55:00 AM	0.011	0.011	0.011	0.012	0.012	11:55:00 AM	0.008	0.008	0.008	0.009	0.009	-0.003
11:56:00 AM	0.011	0.012	0.012	0.013	0.013	11:56:00 AM	0.006	0.006	0.006	0.006	0.007	0
11:57:00 AM	0.011	0.011	0.011	0.012	0.012	11:57:00 AM	0.008	0.008	0.009	0.009	0.009	-0.004
11:58:00 AM	0.01	0.01	0.01	0.011	0.011	11:58:00 AM	0.01	0.011	0.011	0.011	0.011	-0.004
11:59:00 AM	0.01	0.01	0.01	0.011	0.011	11:59:00 AM	0.006	0.007	0.007	0.007	0.007	-0.005
12:00:00 PM	0.01	0.01	0.01	0.011	0.011	12:00:00 PM	0.006	0.006	0.006	0.007	0.007	-0.005
12:01:00 PM	0.011	0.011	0.012	0.012	0.012	12:01:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
12:02:00 PM	0.011	0.011	0.012	0.012	0.012	12:02:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
12:03:00 PM	0.011	0.011	0.011	0.012	0.012	12:03:00 PM	0.006	0.006	0.007	0.007	0.007	-0.003
12:04:00 PM	0.011	0.011	0.011	0.012	0.012	12:04:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
12:05:00 PM	0.01	0.01	0.011	0.011	0.011	12:05:00 PM	0.007	0.007	0.007	0.008	0.008	-0.004
12:06:00 PM	0.01	0.01	0.01	0.011	0.011	12:06:00 PM	0.006	0.006	0.006	0.007	0.007	-0.003
12:07:00 PM	0.01	0.01	0.01	0.011	0.011	12:07:00 PM	0.007	0.007	0.007	0.007	0.007	-0.005
12:08:00 PM	0.01	0.01	0.01	0.011	0.011	12:08:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
12:09:00 PM	0.011	0.011	0.011	0.012	0.012	12:09:00 PM	0.007	0.007	0.007	0.007	0.007	-0.003
12:10:00 PM	0.011	0.011	0.011	0.011	0.011	12:10:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
12:11:00 PM	0.01	0.01	0.01	0.01	0.01	12:11:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
12:12:00 PM	0.011	0.011	0.011	0.011	0.011	12:12:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
12:13:00 PM	0.011	0.011	0.011	0.012	0.012	12:13:00 PM	0.006	0.006	0.006	0.006	0.007	-0.003
12:14:00 PM	0.01	0.01	0.011	0.011	0.011	12:14:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
12:15:00 PM	0.01	0.01	0.01	0.01	0.01	12:15:00 PM	0.006	0.007	0.007	0.007	0.007	-0.002
12:16:00 PM	0.01	0.011	0.011	0.011	0.011	12:16:00 PM	0.007	0.007	0.007	0.007	0.007	0.007
12:17:00 PM	0.011	0.011	0.011	0.011	0.011	12:17:00 PM	0.008	0.008	0.008	0.009	0.009	-0.001
12:18:00 PM	0.011	0.011	0.011	0.011	0.011	12:18:00 PM	0.017	0.018	0.018	0.018	0.018	-0.005
12:19:00 PM	0.011	0.011	0.012	0.012	0.012	12:19:00 PM	0.01	0.01	0.01	0.011	0.011	-0.002
12:20:00 PM	0.012	0.012	0.012	0.013	0.013	12:20:00 PM	0.007	0.007	0.007	0.008	0.008	0.001
12:21:00 PM	0.01	0.011	0.011	0.011	0.011	12:21:00 PM	0.008	0.009	0.009	0.009	0.009	0.004
12:22:00 PM	0.011	0.011	0.011	0.011	0.011	12:22:00 PM	0.011	0.012	0.012	0.012	0.012	0
12:23:00 PM	0.011	0.011	0.012	0.012	0.012	12:23:00 PM	0.015	0.016	0.016	0.016	0.016	-0.005
12:24:00 PM	0.013	0.013	0.013	0.014	0.014	12:24:00 PM	0.013	0.014	0.014	0.014	0.014	-0.003
12:25:00 PM	0.014	0.015	0.015	0.016	0.016	12:25:00 PM	0.01	0.01	0.011	0.011	0.011	-0.005
12:26:00 PM	0.014	0.014	0.015	0.016	0.016	12:26:00 PM	0.012	0.012	0.013	0.013	0.013	-0.001
12:27:00 PM	0.012	0.012	0.012	0.013	0.013	12:27:00 PM	0.008	0.008	0.008	0.008	0.008	-0.005
12:28:00 PM	0.011	0.012	0.012	0.013	0.013	12:28:00 PM	0.009	0.01	0.01	0.012	0.012	-0.003
12:29:00 PM	0.013	0.013	0.013	0.015	0.015	12:29:00 PM	0.008	0.009	0.01	0.01	0.01	0.027
12:30:00 PM	0.011	0.012	0.012	0.012	0.012	12:30:00 PM	0.008	0.008	0.008	0.009	0.009	-0.004
12:31:00 PM	0.012	0.012	0.013	0.014	0.014	12:31:00 PM	0.039	0.04	0.04	0.041	0.041	-0.005
12:32:00 PM	0.012	0.012	0.012	0.013	0.013	12:32:00 PM	0.008	0.008	0.008	0.009	0.009	-0.005
12:33:00 PM	0.011	0.011	0.012	0.012	0.012	12:33:00 PM	0.007	0.007	0.007	0.007	0.007	-0.006
12:34:00 PM	0.011	0.011	0.012	0.012	0.012	12:34:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
12:35:00 PM	0.011	0.011	0.012	0.013	0.013	12:35:00 PM	0.007	0.007	0.007	0.007	0.007	-0.004
12:36:00 PM	0.011	0.011	0.011	0.012	0.012	12:36:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
12:37:00 PM	0.011	0.011	0.012	0.012	0.012	12:37:00 PM	0.007	0.007	0.008	0.008	0.008	0.003
12:38:00 PM	0.011	0.011	0.011	0.012	0.012	12:38:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005

12:39:00 PM	0.011	0.011	0.011	0.011	0.011	12:39:00 PM	0.009	0.01	0.011	0.014	0.014	-0.003
12:40:00 PM	0.011	0.011	0.011	0.012	0.012	12:40:00 PM	0.006	0.007	0.007	0.007	0.007	-0.003
12:41:00 PM	0.01	0.01	0.011	0.011	0.011	12:41:00 PM	0.007	0.007	0.007	0.008	0.008	-0.006
12:42:00 PM	0.01	0.01	0.011	0.011	0.011	12:42:00 PM	0.007	0.007	0.007	0.008	0.008	-0.009
12:43:00 PM	0.013	0.013	0.013	0.013	0.013	12:43:00 PM	0.007	0.007	0.007	0.007	0.007	-0.003
12:44:00 PM	0.014	0.014	0.014	0.015	0.015	12:44:00 PM	0.006	0.006	0.006	0.006	0.006	0.007
12:45:00 PM	0.01	0.01	0.011	0.011	0.011	12:45:00 PM	0.007	0.007	0.008	0.008	0.008	-0.004
12:46:00 PM	0.01	0.011	0.011	0.011	0.011	12:46:00 PM	0.017	0.018	0.018	0.018	0.018	-0.005
12:47:00 PM	0.011	0.011	0.012	0.012	0.012	12:47:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
12:48:00 PM	0.011	0.011	0.012	0.012	0.012	12:48:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
12:49:00 PM	0.01	0.011	0.011	0.011	0.011	12:49:00 PM	0.008	0.008	0.009	0.009	0.009	-0.009
12:50:00 PM	0.012	0.013	0.013	0.014	0.014	12:50:00 PM	0.008	0.009	0.009	0.01	0.01	-0.004
12:51:00 PM	0.013	0.014	0.015	0.017	0.017	12:51:00 PM	0.007	0.007	0.008	0.008	0.008	-0.001
12:52:00 PM	0.013	0.013	0.014	0.015	0.015	12:52:00 PM	0.009	0.01	0.01	0.01	0.011	0.004
12:53:00 PM	0.012	0.012	0.012	0.013	0.013	12:53:00 PM	0.01	0.011	0.011	0.012	0.012	-0.003
12:54:00 PM	0.012	0.012	0.012	0.013	0.013	12:54:00 PM	0.015	0.016	0.017	0.017	0.017	-0.004
12:55:00 PM	0.011	0.012	0.012	0.012	0.012	12:55:00 PM	0.008	0.008	0.008	0.009	0.009	-0.003
12:56:00 PM	0.011	0.012	0.012	0.012	0.012	12:56:00 PM	0.007	0.007	0.007	0.008	0.008	-0.004
12:57:00 PM	0.011	0.011	0.011	0.011	0.012	12:57:00 PM	0.008	0.008	0.008	0.009	0.009	-0.006
12:58:00 PM	0.011	0.012	0.012	0.013	0.013	12:58:00 PM	0.008	0.008	0.009	0.009	0.009	-0.003
12:59:00 PM	0.011	0.011	0.012	0.012	0.012	12:59:00 PM	0.006	0.006	0.006	0.006	0.006	-0.003
1:00:00 PM	0.01	0.01	0.01	0.01	0.01	1:00:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
1:01:00 PM	0.01	0.011	0.011	0.011	0.011	1:01:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005
1:02:00 PM	0.012	0.012	0.013	0.014	0.014	1:02:00 PM	0.007	0.007	0.008	0.008	0.008	-0.007
1:03:00 PM	0.012	0.012	0.013	0.013	0.013	1:03:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
1:04:00 PM	0.012	0.012	0.013	0.014	0.014	1:04:00 PM	0.006	0.007	0.007	0.007	0.007	-0.027
1:05:00 PM	0.01	0.011	0.011	0.011	0.011	1:05:00 PM	0.007	0.007	0.007	0.007	0.007	-0.004
1:06:00 PM	0.017	0.017	0.018	0.033	0.035	1:06:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005
1:07:00 PM	0.011	0.011	0.011	0.012	0.012	1:07:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
1:08:00 PM	0.011	0.011	0.012	0.013	0.013	1:08:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
1:09:00 PM	0.011	0.011	0.011	0.012	0.012	1:09:00 PM	0.007	0.007	0.007	0.008	0.008	-0.007
1:10:00 PM	0.011	0.011	0.012	0.012	0.012	1:10:00 PM	0.007	0.007	0.007	0.008	0.008	-0.001
1:11:00 PM	0.012	0.013	0.013	0.014	0.015	1:11:00 PM	0.007	0.007	0.007	0.008	0.008	-0.002
1:12:00 PM	0.011	0.011	0.011	0.011	0.011	1:12:00 PM	0.008	0.008	0.009	0.009	0.01	-0.006
1:13:00 PM	0.011	0.011	0.012	0.012	0.012	1:13:00 PM	0.008	0.008	0.009	0.01	0.01	-0.006
1:14:00 PM	0.012	0.013	0.013	0.014	0.014	1:14:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
1:15:00 PM	0.012	0.012	0.013	0.014	0.014	1:15:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
1:16:00 PM	0.011	0.011	0.012	0.012	0.012	1:16:00 PM	0.007	0.007	0.007	0.008	0.008	0.001
1:17:00 PM	0.011	0.011	0.012	0.012	0.012	1:17:00 PM	0.008	0.008	0.009	0.009	0.009	-0.004
1:18:00 PM	0.013	0.013	0.014	0.015	0.015	1:18:00 PM	0.015	0.015	0.015	0.016	0.016	-0.001
1:19:00 PM	0.016	0.016	0.017	0.017	0.017	1:19:00 PM	0.012	0.012	0.013	0.013	0.013	-0.003
1:20:00 PM	0.012	0.012	0.013	0.014	0.014	1:20:00 PM	0.012	0.012	0.012	0.013	0.013	-0.005
1:21:00 PM	0.012	0.012	0.013	0.014	0.014	1:21:00 PM	0.01	0.01	0.01	0.011	0.011	-0.002
1:22:00 PM	0.012	0.012	0.013	0.014	0.014	1:22:00 PM	0.008	0.008	0.009	0.009	0.009	0
1:23:00 PM	0.01	0.01	0.011	0.011	0.011	1:23:00 PM	0.008	0.008	0.009	0.009	0.009	-0.003
1:24:00 PM	0.01	0.01	0.011	0.011	0.011	1:24:00 PM	0.01	0.011	0.011	0.011	0.011	-0.003
1:25:00 PM	0.011	0.011	0.011	0.012	0.012	1:25:00 PM	0.008	0.009	0.009	0.009	0.009	-0.006
1:26:00 PM	0.011	0.011	0.011	0.012	0.012	1:26:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
1:27:00 PM	0.012	0.012	0.012	0.013	0.013	1:27:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
1:28:00 PM	0.011	0.011	0.011	0.011	0.011	1:28:00 PM	0.006	0.006	0.007	0.007	0.007	-0.004
1:29:00 PM	0.01	0.01	0.01	0.011	0.011	1:29:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
1:30:00 PM	0.009	0.01	0.01	0.01	0.01	1:30:00 PM	0.006	0.006	0.006	0.006	0.006	-0.005
1:31:00 PM	0.009	0.01	0.01	0.01	0.01	1:31:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
1:32:00 PM	0.01	0.01	0.01	0.011	0.011	1:32:00 PM	0.006	0.006	0.006	0.006	0.006	-0.003
1:33:00 PM	0.009	0.01	0.01	0.01	0.01	1:33:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
1:34:00 PM	0.009	0.01	0.01	0.01	0.01	1:34:00 PM	0.006	0.006	0.006	0.006	0.007	-0.004
1:35:00 PM	0.01	0.01	0.01	0.011	0.011	1:35:00 PM	0.006	0.006	0.006	0.007	0.007	-0.002
1:36:00 PM	0.01	0.01	0.01	0.011	0.011	1:36:00 PM	0.006	0.006	0.006	0.007	0.007	-0.006
1:37:00 PM	0.01	0.01	0.01	0.01	0.01	1:37:00 PM	0.007	0.007	0.007	0.008	0.008	-0.003
1:38:00 PM	0.011	0.011	0.012	0.013	0.013	1:38:00 PM	0.006	0.006	0.007	0.007	0.007	-0.004
1:39:00 PM	0.01	0.01	0.011	0.011	0.011	1:39:00 PM	0.007	0.007	0.007	0.008	0.008	-0.004
1:40:00 PM	0.01	0.01	0.011	0.011	0.011	1:40:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
1:41:00 PM	0.01	0.01	0.011	0.011	0.011	1:41:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
1:42:00 PM	0.01	0.01	0.011	0.011	0.011	1:42:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
1:43:00 PM	0.011	0.011	0.011	0.012	0.012	1:43:00 PM	0.006	0.006	0.006	0.007	0.007	-0.005

1:44:00 PM	0.01	0.01	0.01	0.011	0.011	1:44:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
1:45:00 PM	0.01	0.01	0.01	0.011	0.011	1:45:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
1:46:00 PM	0.01	0.01	0.01	0.011	0.011	1:46:00 PM	0.006	0.006	0.006	0.007	0.007	-0.004
1:47:00 PM	0.01	0.01	0.01	0.011	0.011	1:47:00 PM	0.006	0.006	0.006	0.007	0.007	-0.004
1:48:00 PM	0.01	0.01	0.01	0.011	0.011	1:48:00 PM	0.007	0.007	0.007	0.007	0.007	-0.005
1:49:00 PM	0.01	0.01	0.011	0.011	0.011	1:49:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
1:50:00 PM	0.01	0.01	0.011	0.011	0.011	1:50:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
1:51:00 PM	0.01	0.01	0.01	0.01	0.01	1:51:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
1:52:00 PM	0.009	0.009	0.009	0.01	0.01	1:52:00 PM	0.005	0.006	0.006	0.006	0.006	-0.003
1:53:00 PM	0.009	0.009	0.01	0.01	0.01	1:53:00 PM	0.006	0.006	0.006	0.006	0.006	-0.003
1:54:00 PM	0.009	0.009	0.01	0.01	0.01	1:54:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
1:55:00 PM	0.01	0.01	0.011	0.011	0.011	1:55:00 PM	0.007	0.007	0.007	0.007	0.008	-0.005
1:56:00 PM	0.011	0.011	0.011	0.012	0.012	1:56:00 PM	0.006	0.006	0.006	0.007	0.007	-0.004
1:57:00 PM	0.01	0.01	0.01	0.011	0.011	1:57:00 PM	0.005	0.005	0.006	0.006	0.006	0.002
1:58:00 PM	0.01	0.01	0.01	0.01	0.01	1:58:00 PM	0.005	0.006	0.006	0.006	0.006	0.001
1:59:00 PM	0.01	0.01	0.01	0.01	0.01	1:59:00 PM	0.011	0.011	0.012	0.012	0.012	0.013
2:00:00 PM	0.009	0.01	0.01	0.01	0.01	2:00:00 PM	0.009	0.01	0.01	0.01	0.011	-0.002
2:01:00 PM	0.01	0.01	0.011	0.011	0.011	2:01:00 PM	0.018	0.021	0.023	0.024	0.024	-0.003
2:02:00 PM	0.012	0.012	0.013	0.014	0.014	2:02:00 PM	0.011	0.011	0.011	0.012	0.012	-0.004
2:03:00 PM	0.012	0.013	0.013	0.014	0.014	2:03:00 PM	0.01	0.01	0.011	0.011	0.011	-0.004
2:04:00 PM	0.012	0.012	0.012	0.013	0.013	2:04:00 PM	0.008	0.008	0.008	0.009	0.009	-0.005
2:05:00 PM	0.011	0.012	0.012	0.013	0.013	2:05:00 PM	0.007	0.008	0.008	0.009	0.009	-0.003
2:06:00 PM	0.01	0.01	0.011	0.011	0.011	2:06:00 PM	0.006	0.006	0.006	0.006	0.006	-0.003
2:07:00 PM	0.01	0.01	0.01	0.01	0.01	2:07:00 PM	0.007	0.007	0.007	0.007	0.007	-0.002
2:08:00 PM	0.01	0.01	0.01	0.01	0.011	2:08:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
2:09:00 PM	0.009	0.009	0.009	0.009	0.009	2:09:00 PM	0.007	0.007	0.007	0.007	0.007	-0.003
2:10:00 PM	0.009	0.009	0.01	0.01	0.01	2:10:00 PM	0.007	0.007	0.007	0.007	0.008	-0.002
2:11:00 PM	0.01	0.01	0.01	0.011	0.011	2:11:00 PM	0.007	0.007	0.008	0.008	0.008	-0.005
2:12:00 PM	0.01	0.01	0.011	0.011	0.011	2:12:00 PM	0.008	0.008	0.008	0.009	0.009	-0.003
2:13:00 PM	0.01	0.01	0.011	0.011	0.011	2:13:00 PM	0.005	0.006	0.006	0.006	0.006	-0.002
2:14:00 PM	0.01	0.01	0.01	0.01	0.01	2:14:00 PM	0.006	0.006	0.006	0.007	0.007	-0.005
2:15:00 PM	0.01	0.01	0.01	0.01	0.011	2:15:00 PM	0.007	0.008	0.008	0.009	0.009	-0.005
2:16:00 PM	0.01	0.011	0.011	0.012	0.012	2:16:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
2:17:00 PM	0.01	0.011	0.011	0.011	0.011	2:17:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
2:18:00 PM	0.011	0.011	0.011	0.012	0.012	2:18:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
2:19:00 PM	0.01	0.011	0.011	0.012	0.012	2:19:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005
2:20:00 PM	0.011	0.012	0.012	0.013	0.013	2:20:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
2:21:00 PM	0.011	0.011	0.011	0.012	0.012	2:21:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
2:22:00 PM	0.01	0.01	0.011	0.011	0.011	2:22:00 PM	0.006	0.006	0.006	0.006	0.006	-0.005
2:23:00 PM	0.01	0.01	0.01	0.01	0.01	2:23:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
2:24:00 PM	0.01	0.01	0.01	0.011	0.011	2:24:00 PM	0.006	0.006	0.006	0.006	0.006	-0.006
2:25:00 PM	0.01	0.01	0.01	0.01	0.01	2:25:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
2:26:00 PM	0.01	0.01	0.011	0.011	0.011	2:26:00 PM	0.005	0.005	0.005	0.005	0.005	-0.003
2:27:00 PM	0.009	0.009	0.009	0.009	0.009	2:27:00 PM	0.005	0.005	0.005	0.005	0.005	-0.004
2:28:00 PM	0.009	0.009	0.009	0.009	0.009	2:28:00 PM	0.005	0.005	0.006	0.006	0.006	-0.003
2:29:00 PM	0.009	0.009	0.009	0.01	0.01	2:29:00 PM	0.005	0.006	0.006	0.006	0.006	-0.001
2:30:00 PM	0.009	0.009	0.009	0.01	0.01	2:30:00 PM	0.006	0.006	0.006	0.007	0.007	-0.003
2:31:00 PM	0.01	0.01	0.01	0.01	0.01	2:31:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
2:32:00 PM	0.01	0.01	0.011	0.012	0.012	2:32:00 PM	0.007	0.008	0.008	0.009	0.009	-0.003
2:33:00 PM	0.01	0.01	0.01	0.011	0.011	2:33:00 PM	0.006	0.006	0.007	0.007	0.007	-0.003
2:34:00 PM	0.009	0.01	0.01	0.01	0.01	2:34:00 PM	0.006	0.006	0.007	0.007	0.007	-0.001
2:35:00 PM	0.009	0.01	0.01	0.01	0.01	2:35:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
2:36:00 PM	0.009	0.009	0.009	0.009	0.009	2:36:00 PM	0.006	0.007	0.007	0.008	0.008	-0.003
2:37:00 PM	0.01	0.011	0.011	0.012	0.012	2:37:00 PM	0.005	0.006	0.006	0.006	0.006	-0.003
2:38:00 PM	0.009	0.009	0.009	0.01	0.01	2:38:00 PM	0.006	0.006	0.006	0.007	0.007	-0.002
2:39:00 PM	0.009	0.009	0.009	0.009	0.009	2:39:00 PM	0.005	0.005	0.005	0.006	0.006	-0.002
2:40:00 PM	0.009	0.009	0.009	0.01	0.01	2:40:00 PM	0.007	0.007	0.008	0.008	0.008	0.002
2:41:00 PM	0.009	0.009	0.009	0.01	0.01	2:41:00 PM	0.007	0.008	0.008	0.008	0.008	-0.046
2:42:00 PM	0.009	0.009	0.01	0.01	0.01	2:42:00 PM	0.011	0.011	0.012	0.012	0.012	-0.003
2:43:00 PM	0.055	0.056	0.056	0.058	0.058	2:43:00 PM	0.01	0.011	0.011	0.011	0.012	-0.004
2:44:00 PM	0.01	0.01	0.01	0.011	0.011	2:44:00 PM	0.007	0.007	0.008	0.008	0.008	-0.003
2:45:00 PM	0.01	0.011	0.011	0.012	0.012	2:45:00 PM	0.007	0.007	0.008	0.008	0.008	-0.004
2:46:00 PM	0.01	0.01	0.01	0.011	0.011	2:46:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
2:47:00 PM	0.01	0.011	0.011	0.011	0.011	2:47:00 PM	0.007	0.007	0.007	0.007	0.007	-0.003
2:48:00 PM	0.011	0.011	0.012	0.012	0.012	2:48:00 PM	0.006	0.006	0.006	0.007	0.007	-0.003

2:49:00 PM	0.01	0.011	0.011	0.011	0.011	2:49:00 PM	0.007	0.007	0.008	0.008	0.008	-0.003
2:50:00 PM	0.01	0.01	0.01	0.01	0.01	2:50:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
2:51:00 PM	0.009	0.009	0.009	0.01	0.01	2:51:00 PM	0.006	0.006	0.006	0.007	0.007	0
2:52:00 PM	0.009	0.009	0.009	0.01	0.01	2:52:00 PM	0.006	0.006	0.006	0.006	0.006	0
2:53:00 PM	0.01	0.01	0.01	0.01	0.01	2:53:00 PM	0.009	0.009	0.009	0.01	0.01	-0.001
2:54:00 PM	0.011	0.011	0.011	0.012	0.012	2:54:00 PM	0.011	0.011	0.012	0.012	0.012	-0.003
2:55:00 PM	0.01	0.01	0.011	0.011	0.011	2:55:00 PM	0.009	0.009	0.009	0.01	0.01	-0.004
2:56:00 PM	0.011	0.011	0.011	0.012	0.012	2:56:00 PM	0.008	0.008	0.008	0.009	0.009	-0.004
2:57:00 PM	0.01	0.01	0.01	0.011	0.011	2:57:00 PM	0.006	0.007	0.007	0.007	0.007	-0.003
2:58:00 PM	0.009	0.009	0.009	0.01	0.01	2:58:00 PM	0.006	0.006	0.006	0.006	0.006	-0.005
2:59:00 PM	0.01	0.01	0.01	0.01	0.01	2:59:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
3:00:00 PM	0.01	0.01	0.011	0.011	0.011	3:00:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
3:01:00 PM	0.01	0.01	0.01	0.01	0.01	3:01:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
3:02:00 PM	0.01	0.01	0.01	0.011	0.011	3:02:00 PM	0.006	0.006	0.006	0.007	0.007	-0.005
3:03:00 PM	0.01	0.01	0.01	0.01	0.01	3:03:00 PM	0.006	0.006	0.006	0.006	0.006	-0.005
3:04:00 PM	0.01	0.01	0.01	0.011	0.011	3:04:00 PM	0.005	0.006	0.006	0.006	0.006	-0.005
3:05:00 PM	0.01	0.01	0.01	0.011	0.011	3:05:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
3:06:00 PM	0.009	0.009	0.009	0.01	0.01	3:06:00 PM	0.005	0.005	0.005	0.005	0.005	0.001
3:07:00 PM	0.008	0.009	0.009	0.009	0.009	3:07:00 PM	0.005	0.005	0.005	0.005	0.005	-0.002
3:08:00 PM	0.008	0.008	0.009	0.009	0.009	3:08:00 PM	0.009	0.009	0.009	0.01	0.01	0.001
3:09:00 PM	0.009	0.009	0.009	0.009	0.009	3:09:00 PM	0.006	0.007	0.007	0.007	0.007	-0.002
3:10:00 PM	0.009	0.009	0.009	0.01	0.01	3:10:00 PM	0.01	0.011	0.011	0.011	0.011	-0.005
3:11:00 PM	0.009	0.009	0.009	0.01	0.01	3:11:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
3:12:00 PM	0.011	0.011	0.011	0.012	0.012	3:12:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
3:13:00 PM	0.01	0.011	0.011	0.011	0.011	3:13:00 PM	0.007	0.008	0.008	0.009	0.009	-0.004
3:14:00 PM	0.012	0.012	0.013	0.014	0.014	3:14:00 PM	0.008	0.009	0.009	0.009	0.009	-0.006
3:15:00 PM	0.011	0.011	0.012	0.012	0.012	3:15:00 PM	0.007	0.007	0.008	0.008	0.008	-0.003
3:16:00 PM	0.01	0.011	0.011	0.012	0.012	3:16:00 PM	0.005	0.006	0.006	0.006	0.006	-0.002
3:17:00 PM	0.01	0.01	0.01	0.011	0.011	3:17:00 PM	0.007	0.007	0.008	0.008	0.008	-0.003
3:18:00 PM	0.01	0.01	0.01	0.011	0.011	3:18:00 PM	0.007	0.008	0.008	0.008	0.009	-0.003
3:19:00 PM	0.016	0.016	0.017	0.017	0.017	3:19:00 PM	0.013	0.014	0.014	0.014	0.014	-0.002
3:20:00 PM	0.01	0.01	0.01	0.01	0.01	3:20:00 PM	0.007	0.007	0.007	0.007	0.007	-0.009
3:21:00 PM	0.01	0.01	0.01	0.011	0.011	3:21:00 PM	0.008	0.008	0.008	0.009	0.009	-0.004
3:22:00 PM	0.014	0.015	0.015	0.016	0.016	3:22:00 PM	0.007	0.007	0.007	0.007	0.007	-0.003
3:23:00 PM	0.01	0.01	0.011	0.011	0.011	3:23:00 PM	0.006	0.007	0.007	0.007	0.007	0.006
3:24:00 PM	0.01	0.01	0.011	0.011	0.011	3:24:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005
3:25:00 PM	0.011	0.012	0.012	0.012	0.012	3:25:00 PM	0.017	0.017	0.018	0.018	0.018	-0.004
3:26:00 PM	0.01	0.011	0.011	0.011	0.012	3:26:00 PM	0.006	0.006	0.006	0.007	0.007	-0.004
3:27:00 PM	0.01	0.01	0.011	0.011	0.011	3:27:00 PM	0.006	0.006	0.007	0.007	0.007	-0.006
3:28:00 PM	0.01	0.01	0.011	0.011	0.011	3:28:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
3:29:00 PM	0.01	0.011	0.011	0.012	0.013	3:29:00 PM	0.006	0.007	0.007	0.007	0.007	-0.005
3:30:00 PM	0.01	0.01	0.01	0.011	0.011	3:30:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
3:31:00 PM	0.01	0.01	0.01	0.011	0.011	3:31:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
3:32:00 PM	0.01	0.01	0.01	0.01	0.01	3:32:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
3:33:00 PM	0.01	0.01	0.011	0.011	0.011	3:33:00 PM	0.006	0.006	0.006	0.007	0.007	-0.003
3:34:00 PM	0.01	0.01	0.01	0.011	0.011	3:34:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
3:35:00 PM	0.011	0.011	0.011	0.012	0.012	3:35:00 PM	0.008	0.008	0.008	0.009	0.009	-0.004
3:36:00 PM	0.013	0.013	0.013	0.014	0.014	3:36:00 PM	0.007	0.007	0.007	0.008	0.008	-0.006
3:37:00 PM	0.011	0.011	0.011	0.012	0.012	3:37:00 PM	0.006	0.007	0.007	0.007	0.008	-0.005
3:38:00 PM	0.011	0.011	0.011	0.012	0.012	3:38:00 PM	0.005	0.006	0.006	0.006	0.006	-0.004
3:39:00 PM	0.01	0.01	0.011	0.011	0.011	3:39:00 PM	0.005	0.005	0.005	0.006	0.006	-0.005
3:40:00 PM	0.009	0.009	0.01	0.01	0.01	3:40:00 PM	0.005	0.006	0.006	0.006	0.006	-0.005
3:41:00 PM	0.009	0.01	0.01	0.01	0.01	3:41:00 PM	0.005	0.005	0.005	0.005	0.005	-0.005
3:42:00 PM	0.009	0.009	0.009	0.01	0.01	3:42:00 PM	0.004	0.005	0.005	0.005	0.005	-0.004
3:43:00 PM	0.009	0.009	0.009	0.01	0.01	3:43:00 PM	0.005	0.005	0.005	0.005	0.005	-0.004
3:44:00 PM	0.009	0.009	0.009	0.009	0.009	3:44:00 PM	0.005	0.005	0.005	0.005	0.005	-0.005
3:45:00 PM	0.009	0.009	0.009	0.01	0.01	3:45:00 PM	0.005	0.006	0.006	0.006	0.006	-0.006
3:46:00 PM	0.01	0.01	0.01	0.011	0.011	3:46:00 PM	0.005	0.005	0.005	0.006	0.006	-0.004
3:47:00 PM	0.01	0.01	0.01	0.011	0.011	3:47:00 PM	0.005	0.005	0.005	0.005	0.005	-0.004
3:48:00 PM	0.009	0.009	0.01	0.01	0.01	3:48:00 PM	0.005	0.005	0.006	0.006	0.006	-0.003
3:49:00 PM	0.009	0.01	0.01	0.01	0.01	3:49:00 PM	0.005	0.006	0.006	0.006	0.006	-0.003
3:50:00 PM	0.009	0.009	0.009	0.009	0.009	3:50:00 PM	0.005	0.006	0.006	0.006	0.006	-0.002
3:51:00 PM	0.009	0.009	0.009	0.009	0.009	3:51:00 PM	0.005	0.005	0.006	0.006	0.006	-0.001
3:52:00 PM	0.009	0.01	0.01	0.01	0.01	3:52:00 PM	0.007	0.007	0.007	0.008	0.008	-0.005
3:53:00 PM	0.01	0.01	0.01	0.01	0.01	3:53:00 PM	0.007	0.008	0.008	0.008	0.009	-0.004

3:54:00 PM	0.01	0.01	0.011	0.012	0.012
3:55:00 PM	0.01	0.01	0.01	0.011	0.011
3:56:00 PM	0.016	0.016	0.017	0.017	0.017
3:57:00 PM	0.013	0.014	0.014	0.015	0.015
3:58:00 PM	0.012	0.012	0.012	0.013	0.013
3:59:00 PM	0.011	0.011	0.011	0.012	0.012
4:00:00 PM	0.01	0.01	0.01	0.01	0.01
4:01:00 PM	0.008	0.008	0.009	0.009	0.009

3:54:00 PM	0.006	0.006	0.007	0.007	0.007	-0.01
3:55:00 PM	0.006	0.006	0.007	0.007	0.007	-0.008
3:56:00 PM	0.006	0.006	0.006	0.007	0.007	-0.007
3:57:00 PM	0.006	0.007	0.007	0.007	0.007	-0.012
3:58:00 PM	0.005	0.005	0.006	0.006	0.006	-0.01
						-0.009

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/14/2014
Test Name	MANUAL_007
Test Start Time	11:33:08 AM
Test Start Date	10/14/2014
Test Length [D:H:M]	0:04:45
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.014
PM1 Minimum [mg/m3]	0.007
PM1 Maximum [mg/m3]	0.116
PM1 TWA [mg/m3]	0.008
PM2.5 Average [mg/m3]	0.014
PM2.5 Minimum [mg/m3]	0.007
PM2.5 Maximum [mg/m3]	0.124
PM2.5 TWA [mg/m3]	0.008
PM4 Average [mg/m3]	0.015
PM4 Minimum [mg/m3]	0.008
PM4 Maximum [mg/m3]	0.136
PM4 TWA [mg/m3]	0.009
PM10 Average [mg/m3]	0.015
PM10 Minimum [mg/m3]	0.008
PM10 Maximum [mg/m3]	0.154
PM10 TWA [mg/m3]	0.009
TOTAL Average [mg/m3]	0.015
TOTAL Minimum [mg/m3]	0.008
TOTAL Maximum [mg/m3]	0.154
TOTAL TWA [mg/m3]	0.009
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	285

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg	Alarms

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/14/2014
Test Name	MANUAL_006
Test Start Time	11:07:06 AM
Test Start Date	10/14/2014
Test Length [D:H:M]	0:05:13
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.008
PM1 Minimum [mg/m3]	0.005
PM1 Maximum [mg/m3]	0.025
PM1 TWA [mg/m3]	0.005
PM2.5 Average [mg/m3]	0.009
PM2.5 Minimum [mg/m3]	0.006
PM2.5 Maximum [mg/m3]	0.028
PM2.5 TWA [mg/m3]	0.006
PM4 Average [mg/m3]	0.009
PM4 Minimum [mg/m3]	0.006
PM4 Maximum [mg/m3]	0.029
PM4 TWA [mg/m3]	0.006
PM10 Average [mg/m3]	0.01
PM10 Minimum [mg/m3]	0.006
PM10 Maximum [mg/m3]	0.034
PM10 TWA [mg/m3]	0.006
TOTAL Average [mg/m3]	0.01
TOTAL Minimum [mg/m3]	0.006
TOTAL Maximum [mg/m3]	0.034
TOTAL TWA [mg/m3]	0.006
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	313

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]	Alarms	Difference
							0.013
11:07:00 AM	0.009	0.01	0.011	0.011	0.013		0.01
11:08:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:09:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:10:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:11:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:12:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:13:00 AM	0.009	0.01	0.01	0.01	0.01		0.012
11:14:00 AM	0.008	0.009	0.009	0.01	0.01		0.011
11:15:00 AM	0.01	0.011	0.011	0.011	0.012		0.011
11:16:00 AM	0.009	0.01	0.011	0.011	0.011		0.01
11:17:00 AM	0.01	0.01	0.011	0.011	0.011		0.01
11:18:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:19:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:20:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:21:00 AM	0.009	0.01	0.01	0.01	0.01		0.011
11:22:00 AM	0.009	0.01	0.01	0.01	0.01		0.011
11:23:00 AM	0.01	0.011	0.011	0.011	0.011		0.011
11:24:00 AM	0.01	0.011	0.011	0.011	0.011		0.01
11:25:00 AM	0.01	0.01	0.011	0.011	0.011		0.01
11:26:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:27:00 AM	0.009	0.01	0.01	0.01	0.01		0.01
11:28:00 AM	0.009	0.01	0.01	0.01	0.01		0.011
11:29:00 AM	0.009	0.01	0.01	0.01	0.01		0.011
11:30:00 AM	0.01	0.011	0.011	0.011	0.011		0.012
11:31:00 AM	0.01	0.011	0.011	0.011	0.011		0.002
11:32:00 AM	0.01	0.011	0.011	0.012	0.012		0.001

11:33:00 AM	0.009	0.009	0.009	0.01	0.01	11:33:00 AM	0.01	0.011	0.011	0.012	0.012	0
11:34:00 AM	0.008	0.009	0.009	0.009	0.009	11:34:00 AM	0.009	0.01	0.01	0.01	0.01	0.002
11:35:00 AM	0.009	0.009	0.01	0.01	0.01	11:35:00 AM	0.009	0.01	0.01	0.01	0.01	0.002
11:36:00 AM	0.008	0.009	0.009	0.009	0.009	11:36:00 AM	0.01	0.01	0.011	0.011	0.011	0.001
11:37:00 AM	0.009	0.009	0.009	0.009	0.009	11:37:00 AM	0.01	0.011	0.011	0.011	0.011	0.002
11:38:00 AM	0.009	0.009	0.01	0.01	0.01	11:38:00 AM	0.009	0.01	0.01	0.011	0.011	0.002
11:39:00 AM	0.009	0.009	0.009	0.009	0.009	11:39:00 AM	0.01	0.01	0.011	0.011	0.011	-0.03
11:40:00 AM	0.009	0.009	0.009	0.009	0.009	11:40:00 AM	0.01	0.011	0.011	0.011	0.011	-0.006
11:41:00 AM	0.039	0.039	0.04	0.04	0.04	11:41:00 AM	0.009	0.01	0.01	0.01	0.01	-0.059
11:42:00 AM	0.016	0.017	0.017	0.017	0.017	11:42:00 AM	0.01	0.011	0.011	0.011	0.011	-0.037
11:43:00 AM	0.049	0.053	0.059	0.07	0.07	11:43:00 AM	0.01	0.011	0.011	0.011	0.011	-0.11
11:44:00 AM	0.036	0.038	0.041	0.048	0.048	11:44:00 AM	0.01	0.011	0.011	0.011	0.011	-0.143
11:45:00 AM	0.088	0.094	0.104	0.121	0.121	11:45:00 AM	0.01	0.011	0.011	0.011	0.011	-0.032
11:46:00 AM	0.116	0.124	0.136	0.154	0.154	11:46:00 AM	0.009	0.01	0.01	0.01	0.011	-0.025
11:47:00 AM	0.032	0.034	0.037	0.042	0.042	11:47:00 AM	0.009	0.009	0.009	0.01	0.01	-0.029
11:48:00 AM	0.027	0.028	0.03	0.034	0.034	11:48:00 AM	0.008	0.009	0.009	0.009	0.009	-0.033
11:49:00 AM	0.033	0.034	0.036	0.038	0.038	11:49:00 AM	0.008	0.009	0.009	0.009	0.009	-0.01
11:50:00 AM	0.03	0.032	0.035	0.042	0.043	11:50:00 AM	0.009	0.009	0.009	0.01	0.01	-0.003
11:51:00 AM	0.017	0.018	0.019	0.02	0.02	11:51:00 AM	0.009	0.009	0.009	0.01	0.01	-0.005
11:52:00 AM	0.012	0.012	0.013	0.013	0.013	11:52:00 AM	0.008	0.009	0.009	0.01	0.01	-0.004
11:53:00 AM	0.013	0.013	0.014	0.015	0.015	11:53:00 AM	0.009	0.01	0.01	0.01	0.01	-0.007
11:54:00 AM	0.013	0.013	0.014	0.014	0.014	11:54:00 AM	0.009	0.01	0.01	0.01	0.01	-0.008
11:55:00 AM	0.014	0.014	0.015	0.017	0.017	11:55:00 AM	0.009	0.01	0.01	0.01	0.01	-0.013
11:56:00 AM	0.016	0.016	0.017	0.018	0.018	11:56:00 AM	0.009	0.01	0.01	0.01	0.01	-0.006
11:57:00 AM	0.021	0.022	0.023	0.023	0.023	11:57:00 AM	0.009	0.01	0.01	0.01	0.01	-0.008
11:58:00 AM	0.017	0.017	0.018	0.018	0.018	11:58:00 AM	0.01	0.011	0.011	0.012	0.012	-0.005
11:59:00 AM	0.017	0.017	0.018	0.019	0.019	11:59:00 AM	0.009	0.01	0.01	0.011	0.011	-0.007
12:00:00 PM	0.014	0.014	0.014	0.015	0.015	12:00:00 PM	0.009	0.01	0.01	0.01	0.01	-0.005
12:01:00 PM	0.016	0.016	0.016	0.017	0.017	12:01:00 PM	0.009	0.009	0.01	0.01	0.01	-0.001
12:02:00 PM	0.014	0.014	0.014	0.015	0.015	12:02:00 PM	0.009	0.01	0.01	0.01	0.01	-0.004
12:03:00 PM	0.011	0.011	0.011	0.011	0.011	12:03:00 PM	0.009	0.01	0.01	0.01	0.01	-0.002
12:04:00 PM	0.013	0.013	0.014	0.014	0.014	12:04:00 PM	0.009	0.01	0.01	0.01	0.01	-0.003
12:05:00 PM	0.012	0.012	0.012	0.013	0.013	12:05:00 PM	0.009	0.01	0.01	0.011	0.011	-0.009
12:06:00 PM	0.012	0.012	0.013	0.013	0.013	12:06:00 PM	0.009	0.01	0.01	0.01	0.01	-0.009
12:07:00 PM	0.017	0.018	0.019	0.022	0.022	12:07:00 PM	0.01	0.012	0.012	0.013	0.013	-0.002
12:08:00 PM	0.017	0.017	0.018	0.019	0.019	12:08:00 PM	0.008	0.009	0.009	0.01	0.01	-0.02
12:09:00 PM	0.01	0.011	0.011	0.012	0.012	12:09:00 PM	0.009	0.009	0.009	0.01	0.01	-0.032
12:10:00 PM	0.027	0.028	0.028	0.029	0.029	12:10:00 PM	0.008	0.009	0.009	0.009	0.009	-0.002
12:11:00 PM	0.039	0.04	0.041	0.042	0.042	12:11:00 PM	0.009	0.01	0.01	0.01	0.01	-0.007
12:12:00 PM	0.012	0.012	0.012	0.012	0.012	12:12:00 PM	0.009	0.009	0.01	0.01	0.01	-0.003
12:13:00 PM	0.015	0.015	0.016	0.016	0.016	12:13:00 PM	0.008	0.009	0.009	0.009	0.009	-0.019
12:14:00 PM	0.012	0.013	0.013	0.014	0.014	12:14:00 PM	0.009	0.01	0.01	0.011	0.011	-0.027
12:15:00 PM	0.021	0.022	0.024	0.029	0.029	12:15:00 PM	0.008	0.009	0.009	0.01	0.01	-0.011
12:16:00 PM	0.022	0.024	0.027	0.036	0.036	12:16:00 PM	0.008	0.009	0.009	0.009	0.009	-0.009
12:17:00 PM	0.016	0.017	0.018	0.02	0.02	12:17:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
12:18:00 PM	0.015	0.016	0.017	0.018	0.018	12:18:00 PM	0.008	0.009	0.009	0.009	0.009	-0.003
12:19:00 PM	0.012	0.012	0.013	0.013	0.013	12:19:00 PM	0.008	0.009	0.009	0.009	0.009	0
12:20:00 PM	0.011	0.011	0.011	0.012	0.012	12:20:00 PM	0.008	0.009	0.009	0.009	0.009	-0.003
12:21:00 PM	0.01	0.01	0.01	0.011	0.011	12:21:00 PM	0.01	0.011	0.011	0.011	0.011	-0.006
12:22:00 PM	0.011	0.012	0.012	0.013	0.013	12:22:00 PM	0.008	0.009	0.009	0.01	0.01	-0.019
12:23:00 PM	0.013	0.014	0.014	0.015	0.015	12:23:00 PM	0.008	0.008	0.009	0.009	0.009	-0.025
12:24:00 PM	0.026	0.026	0.026	0.027	0.027	12:24:00 PM	0.007	0.008	0.008	0.008	0.008	-0.006
12:25:00 PM	0.034	0.034	0.035	0.035	0.035	12:25:00 PM	0.008	0.009	0.009	0.009	0.01	-0.006
12:26:00 PM	0.015	0.016	0.016	0.016	0.016	12:26:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
12:27:00 PM	0.013	0.014	0.014	0.014	0.014	12:27:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
12:28:00 PM	0.01	0.01	0.011	0.011	0.011	12:28:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
12:29:00 PM	0.011	0.011	0.012	0.013	0.013	12:29:00 PM	0.008	0.008	0.008	0.009	0.009	-0.005
12:30:00 PM	0.012	0.012	0.013	0.013	0.013	12:30:00 PM	0.007	0.008	0.008	0.009	0.009	-0.01
12:31:00 PM	0.012	0.012	0.012	0.013	0.013	12:31:00 PM	0.007	0.008	0.008	0.008	0.008	-0.033
12:32:00 PM	0.017	0.017	0.018	0.018	0.018	12:32:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
12:33:00 PM	0.041	0.041	0.042	0.042	0.042	12:33:00 PM	0.007	0.008	0.008	0.009	0.009	-0.004
12:34:00 PM	0.013	0.013	0.013	0.014	0.014	12:34:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
12:35:00 PM	0.011	0.012	0.012	0.012	0.012	12:35:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
12:36:00 PM	0.011	0.012	0.012	0.012	0.012	12:36:00 PM	0.007	0.007	0.007	0.008	0.008	-0.003
12:37:00 PM	0.011	0.011	0.011	0.011	0.011	12:37:00 PM	0.007	0.007	0.007	0.008	0.008	-0.002

12:38:00 PM	0.011	0.011	0.011	0.011	0.011	12:38:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
12:39:00 PM	0.01	0.01	0.011	0.011	0.011	12:39:00 PM	0.007	0.008	0.008	0.009	0.009	-0.004
12:40:00 PM	0.011	0.011	0.012	0.012	0.012	12:40:00 PM	0.007	0.008	0.008	0.009	0.009	-0.008
12:41:00 PM	0.01	0.011	0.011	0.011	0.012	12:41:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
12:42:00 PM	0.016	0.016	0.016	0.016	0.016	12:42:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
12:43:00 PM	0.012	0.012	0.013	0.013	0.013	12:43:00 PM	0.007	0.008	0.009	0.009	0.009	-0.033
12:44:00 PM	0.011	0.011	0.012	0.012	0.012	12:44:00 PM	0.007	0.008	0.008	0.008	0.008	-0.013
12:45:00 PM	0.041	0.041	0.042	0.042	0.042	12:45:00 PM	0.007	0.008	0.009	0.009	0.009	-0.004
12:46:00 PM	0.02	0.02	0.021	0.021	0.021	12:46:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
12:47:00 PM	0.011	0.012	0.012	0.013	0.013	12:47:00 PM	0.007	0.008	0.008	0.009	0.009	-0.007
12:48:00 PM	0.01	0.011	0.011	0.011	0.011	12:48:00 PM	0.007	0.007	0.008	0.008	0.008	-0.004
12:49:00 PM	0.014	0.014	0.014	0.015	0.016	12:49:00 PM	0.007	0.008	0.009	0.009	0.009	-0.002
12:50:00 PM	0.013	0.013	0.013	0.013	0.014	12:50:00 PM	0.007	0.008	0.009	0.01	0.01	-0.009
12:51:00 PM	0.01	0.011	0.011	0.011	0.011	12:51:00 PM	0.007	0.008	0.008	0.009	0.009	-0.007
12:52:00 PM	0.014	0.014	0.015	0.016	0.016	12:52:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
12:53:00 PM	0.014	0.014	0.015	0.015	0.015	12:53:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
12:54:00 PM	0.011	0.012	0.012	0.012	0.012	12:54:00 PM	0.007	0.007	0.008	0.008	0.008	-0.048
12:55:00 PM	0.012	0.012	0.012	0.012	0.012	12:55:00 PM	0.008	0.009	0.009	0.01	0.01	-0.04
12:56:00 PM	0.054	0.055	0.056	0.057	0.057	12:56:00 PM	0.008	0.008	0.009	0.009	0.009	-0.014
12:57:00 PM	0.047	0.047	0.048	0.049	0.049	12:57:00 PM	0.007	0.008	0.009	0.009	0.009	-0.008
12:58:00 PM	0.02	0.021	0.021	0.022	0.022	12:58:00 PM	0.007	0.008	0.008	0.008	0.008	-0.012
12:59:00 PM	0.015	0.015	0.015	0.015	0.015	12:59:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
1:00:00 PM	0.019	0.019	0.019	0.019	0.019	1:00:00 PM	0.006	0.007	0.007	0.007	0.007	-0.002
1:01:00 PM	0.011	0.011	0.012	0.012	0.012	1:01:00 PM	0.007	0.008	0.008	0.008	0.008	-0.007
1:02:00 PM	0.011	0.011	0.011	0.011	0.011	1:02:00 PM	0.008	0.008	0.009	0.009	0.009	-0.008
1:03:00 PM	0.015	0.016	0.016	0.016	0.016	1:03:00 PM	0.008	0.009	0.009	0.009	0.009	-0.004
1:04:00 PM	0.016	0.016	0.017	0.018	0.018	1:04:00 PM	0.008	0.008	0.009	0.009	0.01	-0.001
1:05:00 PM	0.013	0.013	0.013	0.014	0.014	1:05:00 PM	0.008	0.009	0.009	0.01	0.01	-0.005
1:06:00 PM	0.012	0.012	0.013	0.013	0.013	1:06:00 PM	0.009	0.01	0.011	0.012	0.012	-0.004
1:07:00 PM	0.012	0.012	0.012	0.013	0.013	1:07:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
1:08:00 PM	0.012	0.012	0.013	0.013	0.013	1:08:00 PM	0.007	0.008	0.009	0.009	0.009	-0.005
1:09:00 PM	0.012	0.012	0.012	0.012	0.012	1:09:00 PM	0.008	0.009	0.009	0.01	0.01	-0.004
1:10:00 PM	0.012	0.013	0.013	0.013	0.013	1:10:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
1:11:00 PM	0.011	0.011	0.012	0.012	0.012	1:11:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
1:12:00 PM	0.011	0.011	0.011	0.012	0.012	1:12:00 PM	0.008	0.009	0.01	0.01	0.01	-0.007
1:13:00 PM	0.014	0.015	0.015	0.016	0.016	1:13:00 PM	0.009	0.01	0.011	0.011	0.011	-0.007
1:14:00 PM	0.016	0.016	0.017	0.018	0.018	1:14:00 PM	0.008	0.01	0.011	0.011	0.011	-0.016
1:15:00 PM	0.014	0.014	0.015	0.015	0.015	1:15:00 PM	0.007	0.007	0.008	0.008	0.008	-0.002
1:16:00 PM	0.018	0.019	0.021	0.024	0.024	1:16:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
1:17:00 PM	0.011	0.011	0.012	0.012	0.012	1:17:00 PM	0.008	0.009	0.01	0.01	0.01	0.006
1:18:00 PM	0.011	0.012	0.012	0.012	0.012	1:18:00 PM	0.007	0.007	0.007	0.008	0.008	-0.006
1:19:00 PM	0.013	0.014	0.014	0.015	0.015	1:19:00 PM	0.02	0.02	0.02	0.021	0.021	-0.017
1:20:00 PM	0.015	0.016	0.016	0.016	0.016	1:20:00 PM	0.008	0.009	0.009	0.01	0.01	-0.008
1:21:00 PM	0.024	0.024	0.024	0.025	0.025	1:21:00 PM	0.007	0.007	0.008	0.008	0.008	-0.004
1:22:00 PM	0.013	0.014	0.014	0.015	0.015	1:22:00 PM	0.006	0.007	0.007	0.007	0.007	-0.004
1:23:00 PM	0.01	0.01	0.01	0.011	0.011	1:23:00 PM	0.006	0.007	0.007	0.007	0.007	-0.022
1:24:00 PM	0.009	0.009	0.01	0.012	0.012	1:24:00 PM	0.006	0.007	0.008	0.008	0.008	-0.004
1:25:00 PM	0.017	0.018	0.021	0.028	0.028	1:25:00 PM	0.005	0.006	0.006	0.006	0.006	0
1:26:00 PM	0.009	0.009	0.01	0.01	0.011	1:26:00 PM	0.006	0.007	0.007	0.007	0.007	-0.007
1:27:00 PM	0.007	0.008	0.008	0.008	0.008	1:27:00 PM	0.007	0.007	0.007	0.008	0.008	-0.007
1:28:00 PM	0.01	0.011	0.012	0.014	0.014	1:28:00 PM	0.006	0.007	0.007	0.007	0.007	-0.003
1:29:00 PM	0.01	0.011	0.011	0.014	0.014	1:29:00 PM	0.006	0.006	0.006	0.007	0.007	-0.002
1:30:00 PM	0.008	0.008	0.008	0.009	0.009	1:30:00 PM	0.006	0.006	0.006	0.006	0.006	-0.002
1:31:00 PM	0.008	0.008	0.008	0.009	0.009	1:31:00 PM	0.005	0.006	0.006	0.007	0.007	-0.001
1:32:00 PM	0.008	0.008	0.009	0.009	0.009	1:32:00 PM	0.006	0.006	0.006	0.007	0.007	0
1:33:00 PM	0.007	0.007	0.008	0.008	0.008	1:33:00 PM	0.006	0.007	0.007	0.007	0.007	0.001
1:34:00 PM	0.007	0.007	0.008	0.008	0.008	1:34:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
1:35:00 PM	0.008	0.008	0.008	0.009	0.009	1:35:00 PM	0.008	0.009	0.009	0.01	0.01	0.001
1:36:00 PM	0.009	0.009	0.009	0.009	0.009	1:36:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
1:37:00 PM	0.011	0.011	0.012	0.012	0.012	1:37:00 PM	0.01	0.011	0.012	0.013	0.013	-0.008
1:38:00 PM	0.014	0.014	0.015	0.016	0.016	1:38:00 PM	0.008	0.01	0.01	0.011	0.011	-0.001
1:39:00 PM	0.017	0.017	0.018	0.019	0.019	1:39:00 PM	0.008	0.01	0.01	0.011	0.011	-0.004
1:40:00 PM	0.009	0.01	0.01	0.01	0.01	1:40:00 PM	0.007	0.009	0.009	0.009	0.009	-0.002
1:41:00 PM	0.01	0.011	0.011	0.012	0.012	1:41:00 PM	0.007	0.008	0.008	0.008	0.008	-0.012
1:42:00 PM	0.011	0.012	0.012	0.013	0.013	1:42:00 PM	0.008	0.009	0.01	0.011	0.011	-0.012

1:43:00 PM	0.016	0.016	0.018	0.02	0.02	1:43:00 PM	0.006	0.007	0.007	0.008	0.008	-0.008
1:44:00 PM	0.016	0.017	0.017	0.019	0.019	1:44:00 PM	0.006	0.007	0.007	0.007	0.007	0.002
1:45:00 PM	0.014	0.014	0.014	0.015	0.015	1:45:00 PM	0.007	0.007	0.007	0.007	0.007	-0.006
1:46:00 PM	0.011	0.012	0.012	0.012	0.012	1:46:00 PM	0.01	0.012	0.013	0.014	0.014	-0.005
1:47:00 PM	0.013	0.014	0.014	0.014	0.014	1:47:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
1:48:00 PM	0.015	0.016	0.017	0.019	0.019	1:48:00 PM	0.011	0.012	0.013	0.014	0.014	-0.009
1:49:00 PM	0.014	0.014	0.014	0.015	0.015	1:49:00 PM	0.01	0.012	0.012	0.013	0.013	-0.009
1:50:00 PM	0.016	0.017	0.018	0.019	0.019	1:50:00 PM	0.008	0.01	0.01	0.01	0.01	-0.003
1:51:00 PM	0.015	0.016	0.017	0.019	0.019	1:51:00 PM	0.008	0.01	0.01	0.01	0.01	-0.001
1:52:00 PM	0.01	0.01	0.01	0.011	0.011	1:52:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
1:53:00 PM	0.01	0.01	0.011	0.011	0.011	1:53:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
1:54:00 PM	0.01	0.011	0.011	0.011	0.011	1:54:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
1:55:00 PM	0.009	0.01	0.01	0.011	0.011	1:55:00 PM	0.007	0.008	0.009	0.009	0.009	-0.006
1:56:00 PM	0.009	0.009	0.009	0.01	0.01	1:56:00 PM	0.008	0.009	0.009	0.009	0.009	0.001
1:57:00 PM	0.013	0.013	0.014	0.015	0.015	1:57:00 PM	0.007	0.008	0.008	0.009	0.009	-0.002
1:58:00 PM	0.012	0.013	0.013	0.013	0.013	1:58:00 PM	0.01	0.012	0.012	0.013	0.014	-0.003
1:59:00 PM	0.012	0.012	0.012	0.012	0.012	1:59:00 PM	0.008	0.009	0.01	0.01	0.01	-0.004
2:00:00 PM	0.014	0.014	0.015	0.016	0.016	2:00:00 PM	0.01	0.012	0.012	0.013	0.013	-0.011
2:01:00 PM	0.011	0.012	0.012	0.013	0.013	2:01:00 PM	0.007	0.008	0.008	0.009	0.009	-0.003
2:02:00 PM	0.017	0.017	0.018	0.019	0.019	2:02:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
2:03:00 PM	0.011	0.011	0.012	0.012	0.012	2:03:00 PM	0.008	0.008	0.009	0.009	0.009	-0.012
2:04:00 PM	0.011	0.012	0.012	0.012	0.012	2:04:00 PM	0.008	0.009	0.009	0.009	0.009	-0.007
2:05:00 PM	0.018	0.019	0.019	0.02	0.02	2:05:00 PM	0.007	0.008	0.008	0.008	0.008	0.009
2:06:00 PM	0.017	0.018	0.018	0.019	0.019	2:06:00 PM	0.009	0.011	0.011	0.012	0.012	-0.003
2:07:00 PM	0.009	0.01	0.01	0.01	0.01	2:07:00 PM	0.013	0.015	0.017	0.019	0.019	-0.005
2:08:00 PM	0.012	0.012	0.013	0.013	0.013	2:08:00 PM	0.008	0.009	0.009	0.01	0.01	-0.007
2:09:00 PM	0.013	0.014	0.014	0.015	0.015	2:09:00 PM	0.008	0.009	0.009	0.01	0.01	-0.003
2:10:00 PM	0.013	0.014	0.014	0.015	0.015	2:10:00 PM	0.007	0.008	0.008	0.008	0.008	-0.007
2:11:00 PM	0.011	0.011	0.011	0.011	0.011	2:11:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
2:12:00 PM	0.015	0.015	0.016	0.016	0.016	2:12:00 PM	0.007	0.008	0.008	0.008	0.009	0.005
2:13:00 PM	0.011	0.011	0.012	0.012	0.012	2:13:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
2:14:00 PM	0.013	0.014	0.014	0.014	0.014	2:14:00 PM	0.014	0.015	0.016	0.018	0.019	-0.007
2:15:00 PM	0.012	0.013	0.013	0.013	0.013	2:15:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
2:16:00 PM	0.014	0.014	0.015	0.016	0.016	2:16:00 PM	0.007	0.008	0.008	0.009	0.009	-0.009
2:17:00 PM	0.013	0.013	0.014	0.015	0.015	2:17:00 PM	0.008	0.009	0.01	0.01	0.01	0.001
2:18:00 PM	0.016	0.016	0.017	0.019	0.019	2:18:00 PM	0.009	0.01	0.01	0.01	0.01	-0.006
2:19:00 PM	0.011	0.012	0.012	0.012	0.012	2:19:00 PM	0.011	0.012	0.013	0.013	0.013	0
2:20:00 PM	0.016	0.016	0.017	0.017	0.017	2:20:00 PM	0.009	0.01	0.011	0.011	0.011	-0.005
2:21:00 PM	0.014	0.014	0.015	0.016	0.016	2:21:00 PM	0.013	0.014	0.015	0.016	0.016	-0.006
2:22:00 PM	0.016	0.016	0.017	0.017	0.017	2:22:00 PM	0.01	0.011	0.012	0.012	0.012	-0.013
2:23:00 PM	0.016	0.016	0.016	0.017	0.017	2:23:00 PM	0.008	0.01	0.01	0.011	0.011	-0.004
2:24:00 PM	0.02	0.021	0.021	0.022	0.022	2:24:00 PM	0.008	0.009	0.009	0.009	0.009	-0.003
2:25:00 PM	0.012	0.013	0.013	0.013	0.013	2:25:00 PM	0.008	0.009	0.009	0.009	0.009	-0.005
2:26:00 PM	0.012	0.012	0.012	0.013	0.013	2:26:00 PM	0.008	0.009	0.01	0.01	0.01	-0.007
2:27:00 PM	0.013	0.013	0.013	0.014	0.014	2:27:00 PM	0.008	0.009	0.009	0.009	0.009	-0.005
2:28:00 PM	0.014	0.015	0.016	0.016	0.016	2:28:00 PM	0.008	0.009	0.009	0.009	0.009	-0.001
2:29:00 PM	0.013	0.014	0.014	0.014	0.014	2:29:00 PM	0.007	0.008	0.008	0.009	0.009	-0.006
2:30:00 PM	0.012	0.012	0.013	0.013	0.013	2:30:00 PM	0.008	0.009	0.01	0.012	0.012	-0.005
2:31:00 PM	0.013	0.013	0.013	0.014	0.014	2:31:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
2:32:00 PM	0.011	0.011	0.012	0.012	0.012	2:32:00 PM	0.006	0.007	0.007	0.007	0.007	-0.001
2:33:00 PM	0.009	0.009	0.01	0.01	0.01	2:33:00 PM	0.006	0.007	0.007	0.007	0.007	-0.006
2:34:00 PM	0.008	0.008	0.009	0.009	0.009	2:34:00 PM	0.006	0.007	0.007	0.008	0.008	-0.003
2:35:00 PM	0.01	0.011	0.012	0.014	0.014	2:35:00 PM	0.007	0.008	0.008	0.008	0.008	0.003
2:36:00 PM	0.01	0.011	0.012	0.014	0.014	2:36:00 PM	0.009	0.011	0.011	0.011	0.011	-0.004
2:37:00 PM	0.01	0.01	0.01	0.011	0.011	2:37:00 PM	0.011	0.013	0.014	0.014	0.014	-0.008
2:38:00 PM	0.011	0.011	0.011	0.012	0.012	2:38:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
2:39:00 PM	0.013	0.014	0.015	0.016	0.016	2:39:00 PM	0.006	0.007	0.007	0.008	0.008	0
2:40:00 PM	0.009	0.009	0.009	0.01	0.01	2:40:00 PM	0.007	0.008	0.008	0.009	0.009	0
2:41:00 PM	0.008	0.009	0.009	0.009	0.009	2:41:00 PM	0.007	0.008	0.009	0.009	0.009	-0.001
2:42:00 PM	0.009	0.009	0.009	0.01	0.01	2:42:00 PM	0.007	0.009	0.009	0.01	0.01	-0.003
2:43:00 PM	0.009	0.009	0.01	0.01	0.01	2:43:00 PM	0.008	0.008	0.009	0.009	0.009	-0.003
2:44:00 PM	0.009	0.01	0.01	0.011	0.011	2:44:00 PM	0.006	0.007	0.007	0.008	0.008	-0.002
2:45:00 PM	0.009	0.009	0.009	0.01	0.01	2:45:00 PM	0.006	0.007	0.007	0.007	0.007	-0.002
2:46:00 PM	0.009	0.01	0.01	0.011	0.011	2:46:00 PM	0.007	0.008	0.008	0.009	0.009	-0.005
2:47:00 PM	0.009	0.009	0.01	0.01	0.01	2:47:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001

2:48:00 PM	0.01	0.01	0.011	0.012	0.012	2:48:00 PM	0.006	0.007	0.007	0.007	0.007	-0.001
2:49:00 PM	0.009	0.009	0.01	0.01	0.01	2:49:00 PM	0.008	0.009	0.009	0.009	0.009	-0.002
2:50:00 PM	0.008	0.009	0.009	0.009	0.009	2:50:00 PM	0.006	0.007	0.007	0.008	0.008	0.001
2:51:00 PM	0.009	0.01	0.01	0.011	0.011	2:51:00 PM	0.007	0.008	0.009	0.009	0.009	-0.002
2:52:00 PM	0.009	0.009	0.01	0.01	0.011	2:52:00 PM	0.009	0.01	0.011	0.012	0.012	-0.003
2:53:00 PM	0.01	0.01	0.011	0.011	0.011	2:53:00 PM	0.007	0.008	0.009	0.009	0.009	-0.001
2:54:00 PM	0.01	0.01	0.01	0.011	0.011	2:54:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
2:55:00 PM	0.009	0.009	0.01	0.01	0.01	2:55:00 PM	0.007	0.008	0.009	0.009	0.009	-0.002
2:56:00 PM	0.009	0.01	0.01	0.01	0.01	2:56:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
2:57:00 PM	0.009	0.009	0.01	0.01	0.01	2:57:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
2:58:00 PM	0.009	0.009	0.009	0.01	0.01	2:58:00 PM	0.006	0.007	0.008	0.008	0.008	-0.004
2:59:00 PM	0.015	0.016	0.016	0.017	0.017	2:59:00 PM	0.009	0.011	0.012	0.013	0.013	-0.001
3:00:00 PM	0.011	0.011	0.011	0.012	0.012	3:00:00 PM	0.006	0.007	0.008	0.008	0.008	0.001
3:01:00 PM	0.01	0.011	0.011	0.011	0.011	3:01:00 PM	0.008	0.009	0.009	0.01	0.01	0.008
3:02:00 PM	0.011	0.011	0.011	0.011	0.011	3:02:00 PM	0.009	0.01	0.011	0.011	0.012	0.002
3:03:00 PM	0.011	0.011	0.011	0.011	0.011	3:03:00 PM	0.016	0.018	0.019	0.019	0.019	-0.003
3:04:00 PM	0.012	0.013	0.013	0.013	0.013	3:04:00 PM	0.012	0.014	0.014	0.015	0.015	-0.004
3:05:00 PM	0.011	0.011	0.011	0.011	0.011	3:05:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
3:06:00 PM	0.011	0.012	0.012	0.012	0.012	3:06:00 PM	0.007	0.008	0.008	0.008	0.008	0.001
3:07:00 PM	0.011	0.011	0.011	0.011	0.012	3:07:00 PM	0.007	0.008	0.008	0.009	0.009	0.021
3:08:00 PM	0.01	0.011	0.011	0.011	0.011	3:08:00 PM	0.009	0.01	0.011	0.012	0.012	0.005
3:09:00 PM	0.011	0.012	0.012	0.013	0.013	3:09:00 PM	0.021	0.024	0.027	0.034	0.034	-0.006
3:10:00 PM	0.011	0.011	0.011	0.012	0.012	3:10:00 PM	0.015	0.016	0.017	0.017	0.017	-0.002
3:11:00 PM	0.013	0.013	0.014	0.014	0.014	3:11:00 PM	0.007	0.008	0.008	0.008	0.008	0.019
3:12:00 PM	0.01	0.01	0.01	0.01	0.01	3:12:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
3:13:00 PM	0.01	0.01	0.011	0.011	0.011	3:13:00 PM	0.025	0.028	0.029	0.03	0.03	-0.003
3:14:00 PM	0.011	0.011	0.012	0.012	0.012	3:14:00 PM	0.007	0.008	0.009	0.009	0.009	-0.004
3:15:00 PM	0.011	0.012	0.012	0.012	0.012	3:15:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
3:16:00 PM	0.011	0.011	0.011	0.012	0.012	3:16:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
3:17:00 PM	0.01	0.011	0.011	0.011	0.011	3:17:00 PM	0.007	0.009	0.009	0.01	0.01	-0.003
3:18:00 PM	0.011	0.011	0.012	0.012	0.012	3:18:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
3:19:00 PM	0.01	0.01	0.011	0.011	0.011	3:19:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
3:20:00 PM	0.01	0.011	0.011	0.011	0.011	3:20:00 PM	0.007	0.008	0.008	0.008	0.008	0
3:21:00 PM	0.013	0.013	0.014	0.014	0.014	3:21:00 PM	0.007	0.008	0.009	0.009	0.009	-0.001
3:22:00 PM	0.011	0.011	0.011	0.011	0.011	3:22:00 PM	0.009	0.01	0.011	0.011	0.011	-0.005
3:23:00 PM	0.012	0.012	0.013	0.013	0.013	3:23:00 PM	0.01	0.011	0.011	0.012	0.012	0.007
3:24:00 PM	0.012	0.013	0.013	0.013	0.013	3:24:00 PM	0.007	0.007	0.008	0.008	0.008	0.003
3:25:00 PM	0.01	0.01	0.01	0.01	0.01	3:25:00 PM	0.012	0.013	0.014	0.017	0.017	-0.001
3:26:00 PM	0.009	0.01	0.01	0.01	0.01	3:26:00 PM	0.012	0.013	0.013	0.013	0.013	0.002
3:27:00 PM	0.01	0.01	0.011	0.011	0.011	3:27:00 PM	0.008	0.009	0.01	0.01	0.01	-0.002
3:28:00 PM	0.01	0.011	0.011	0.011	0.011	3:28:00 PM	0.011	0.011	0.012	0.012	0.013	-0.005
3:29:00 PM	0.011	0.012	0.012	0.013	0.013	3:29:00 PM	0.01	0.011	0.011	0.011	0.011	-0.001
3:30:00 PM	0.011	0.012	0.012	0.013	0.013	3:30:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
3:31:00 PM	0.012	0.013	0.013	0.013	0.013	3:31:00 PM	0.01	0.011	0.011	0.012	0.012	-0.002
3:32:00 PM	0.01	0.01	0.01	0.01	0.01	3:32:00 PM	0.006	0.007	0.007	0.007	0.007	-0.003
3:33:00 PM	0.01	0.01	0.01	0.01	0.01	3:33:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
3:34:00 PM	0.01	0.01	0.01	0.011	0.011	3:34:00 PM	0.006	0.007	0.007	0.008	0.008	-0.001
3:35:00 PM	0.011	0.011	0.011	0.012	0.012	3:35:00 PM	0.007	0.008	0.008	0.008	0.008	-0.003
3:36:00 PM	0.01	0.01	0.01	0.011	0.011	3:36:00 PM	0.008	0.009	0.01	0.01	0.01	-0.003
3:37:00 PM	0.01	0.01	0.011	0.011	0.011	3:37:00 PM	0.007	0.008	0.008	0.008	0.008	-0.002
3:38:00 PM	0.01	0.01	0.01	0.011	0.011	3:38:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
3:39:00 PM	0.009	0.01	0.01	0.01	0.01	3:39:00 PM	0.006	0.007	0.007	0.008	0.008	0.001
3:40:00 PM	0.008	0.009	0.009	0.009	0.009	3:40:00 PM	0.007	0.008	0.008	0.008	0.008	-0.005
3:41:00 PM	0.008	0.008	0.008	0.008	0.008	3:41:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
3:42:00 PM	0.011	0.011	0.011	0.012	0.012	3:42:00 PM	0.006	0.007	0.007	0.007	0.007	0
3:43:00 PM	0.008	0.009	0.009	0.009	0.009	3:43:00 PM	0.006	0.007	0.007	0.008	0.008	-0.001
3:44:00 PM	0.008	0.008	0.009	0.009	0.009	3:44:00 PM	0.007	0.008	0.008	0.008	0.009	-0.001
3:45:00 PM	0.008	0.009	0.009	0.009	0.009	3:45:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
3:46:00 PM	0.009	0.009	0.009	0.009	0.01	3:46:00 PM	0.007	0.008	0.009	0.009	0.009	0
3:47:00 PM	0.009	0.009	0.01	0.01	0.01	3:47:00 PM	0.007	0.008	0.008	0.009	0.009	0.007
3:48:00 PM	0.009	0.009	0.009	0.01	0.01	3:48:00 PM	0.007	0.008	0.008	0.009	0.01	0.002
3:49:00 PM	0.009	0.009	0.009	0.009	0.009	3:49:00 PM	0.01	0.012	0.013	0.016	0.016	-0.003
3:50:00 PM	0.009	0.01	0.01	0.01	0.01	3:50:00 PM	0.008	0.01	0.011	0.012	0.012	0
3:51:00 PM	0.01	0.011	0.011	0.012	0.012	3:51:00 PM	0.007	0.008	0.008	0.009	0.009	-0.002
3:52:00 PM	0.008	0.008	0.008	0.009	0.009	3:52:00 PM	0.007	0.008	0.008	0.009	0.009	0.001

3:53:00 PM	0.009	0.009	0.009	0.01	0.01
3:54:00 PM	0.008	0.009	0.009	0.009	0.009
3:55:00 PM	0.008	0.008	0.009	0.009	0.009
3:56:00 PM	0.009	0.009	0.009	0.009	0.009
3:57:00 PM	0.009	0.01	0.01	0.011	0.011
3:58:00 PM	0.01	0.01	0.011	0.011	0.011
3:59:00 PM	0.009	0.01	0.01	0.01	0.01
4:00:00 PM	0.01	0.01	0.01	0.011	0.011
4:01:00 PM	0.01	0.01	0.01	0.011	0.011
4:02:00 PM	0.009	0.009	0.009	0.01	0.01
4:03:00 PM	0.01	0.01	0.01	0.011	0.011
4:04:00 PM	0.009	0.01	0.01	0.01	0.01
4:05:00 PM	0.009	0.009	0.009	0.009	0.009
4:06:00 PM	0.01	0.011	0.011	0.012	0.012
4:07:00 PM	0.009	0.01	0.01	0.01	0.011
4:08:00 PM	0.009	0.01	0.01	0.011	0.011
4:09:00 PM	0.009	0.009	0.01	0.01	0.01
4:10:00 PM	0.009	0.009	0.009	0.01	0.01
4:11:00 PM	0.009	0.009	0.009	0.009	0.009
4:12:00 PM	0.012	0.012	0.013	0.013	0.013
4:13:00 PM	0.01	0.01	0.011	0.011	0.011
4:14:00 PM	0.008	0.009	0.009	0.009	0.009
4:15:00 PM	0.008	0.009	0.009	0.009	0.009
4:16:00 PM	0.009	0.009	0.009	0.01	0.01
4:17:00 PM	0.008	0.009	0.009	0.009	0.009

3:53:00 PM	0.007	0.008	0.008	0.008	0.008	0.004
3:54:00 PM	0.008	0.009	0.009	0.01	0.01	0.001
3:55:00 PM	0.009	0.011	0.012	0.013	0.013	-0.002
3:56:00 PM	0.008	0.009	0.009	0.01	0.01	-0.001
3:57:00 PM	0.007	0.008	0.008	0.009	0.009	0
3:58:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
3:59:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
4:00:00 PM	0.007	0.008	0.009	0.009	0.009	0
4:01:00 PM	0.008	0.009	0.009	0.009	0.009	-0.002
4:02:00 PM	0.008	0.009	0.009	0.01	0.01	0
4:03:00 PM	0.007	0.008	0.008	0.009	0.009	0
4:04:00 PM	0.008	0.009	0.009	0.01	0.01	-0.003
4:05:00 PM	0.007	0.009	0.009	0.009	0.009	-0.001
4:06:00 PM	0.007	0.008	0.009	0.009	0.009	-0.002
4:07:00 PM	0.008	0.009	0.009	0.009	0.01	-0.001
4:08:00 PM	0.007	0.008	0.008	0.009	0.009	0.004
4:09:00 PM	0.007	0.008	0.009	0.009	0.009	0.001
4:10:00 PM	0.011	0.012	0.013	0.014	0.014	-0.004
4:11:00 PM	0.008	0.009	0.01	0.01	0.01	-0.002
4:12:00 PM	0.007	0.008	0.008	0.009	0.009	0.001
4:13:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
4:14:00 PM	0.008	0.009	0.009	0.009	0.01	-0.002
4:15:00 PM	0.007	0.008	0.008	0.008	0.008	-0.001
4:16:00 PM	0.007	0.008	0.008	0.008	0.008	0.009
4:17:00 PM	0.007	0.008	0.008	0.008	0.008	0.01
4:18:00 PM	0.007	0.008	0.009	0.009	0.009	
4:19:00 PM	0.009	0.01	0.01	0.01	0.01	

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	10/15/2014
Test Name	MANUAL_008
Test Start Time	10:56:54 AM
Test Start Date	10/15/2014
Test Length [D:H:M]	0:05:34
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.018
PM1 Minimum [mg/m3]	0.014
PM1 Maximum [mg/m3]	0.043
PM1 TWA [mg/m3]	0.012
PM2.5 Average [mg/m3]	0.019
PM2.5 Minimum [mg/m3]	0.015
PM2.5 Maximum [mg/m3]	0.044
PM2.5 TWA [mg/m3]	0.013
PM4 Average [mg/m3]	0.019
PM4 Minimum [mg/m3]	0.015
PM4 Maximum [mg/m3]	0.046
PM4 TWA [mg/m3]	0.014
PM10 Average [mg/m3]	0.022
PM10 Minimum [mg/m3]	0.016
PM10 Maximum [mg/m3]	0.051
PM10 TWA [mg/m3]	0.015
TOTAL Average [mg/m3]	0.022
TOTAL Minimum [mg/m3]	0.016
TOTAL Maximum [mg/m3]	0.051
TOTAL TWA [mg/m3]	0.015
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	334

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg	Alarms
10:56:00 AM	0.026	0.028	0.03	0.041	0.045	
10:57:00 AM	0.021	0.023	0.024	0.029	0.029	
10:58:00 AM	0.021	0.023	0.024	0.03	0.031	
10:59:00 AM	0.021	0.023	0.024	0.029	0.03	
11:00:00 AM	0.023	0.025	0.026	0.031	0.033	
11:01:00 AM	0.024	0.025	0.027	0.033	0.034	
11:02:00 AM	0.022	0.023	0.025	0.03	0.03	
11:03:00 AM	0.028	0.029	0.03	0.038	0.039	
11:04:00 AM	0.023	0.025	0.026	0.031	0.032	
11:05:00 AM	0.022	0.023	0.025	0.029	0.029	
11:06:00 AM	0.022	0.024	0.025	0.031	0.032	
11:07:00 AM	0.022	0.023	0.025	0.03	0.03	
11:08:00 AM	0.021	0.022	0.024	0.028	0.029	
11:09:00 AM	0.021	0.022	0.024	0.028	0.028	
11:10:00 AM	0.02	0.021	0.023	0.027	0.029	
11:11:00 AM	0.02	0.021	0.023	0.027	0.028	
11:12:00 AM	0.02	0.021	0.022	0.027	0.027	
11:13:00 AM	0.021	0.023	0.024	0.029	0.031	
11:14:00 AM	0.025	0.027	0.029	0.042	0.045	
11:15:00 AM	0.023	0.024	0.026	0.032	0.035	
11:16:00 AM	0.023	0.024	0.026	0.03	0.031	
11:17:00 AM	0.025	0.026	0.028	0.031	0.032	
11:18:00 AM	0.043	0.044	0.046	0.051	0.051	

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	10/15/2014
Test Name	MANUAL_007
Test Start Time	10:53:42 AM
Test Start Date	10/15/2014
Test Length [D:H:M]	0:05:38
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.013
PM1 Minimum [mg/m3]	0.009
PM1 Maximum [mg/m3]	0.072
PM1 TWA [mg/m3]	0.009
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.011
PM2.5 Maximum [mg/m3]	0.075
PM2.5 TWA [mg/m3]	0.011
PM4 Average [mg/m3]	0.016
PM4 Minimum [mg/m3]	0.011
PM4 Maximum [mg/m3]	0.075
PM4 TWA [mg/m3]	0.011
PM10 Average [mg/m3]	0.016
PM10 Minimum [mg/m3]	0.011
PM10 Maximum [mg/m3]	0.076
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.016
TOTAL Minimum [mg/m3]	0.011
TOTAL Maximum [mg/m3]	0.076
TOTAL TWA [mg/m3]	0.011
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	338

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg/	TOTAL [mg/m3]	Alarms	Difference
							0.025
10:53:00 AM	0.02	0.022	0.023	0.025	0.025		0.019
10:54:00 AM	0.015	0.018	0.018	0.019	0.019		0.02
10:55:00 AM	0.016	0.019	0.019	0.02	0.02		-0.027
10:56:00 AM	0.015	0.018	0.018	0.018	0.018		-0.01
10:57:00 AM	0.015	0.018	0.018	0.019	0.019		-0.013
10:58:00 AM	0.015	0.017	0.018	0.018	0.018		-0.01
10:59:00 AM	0.015	0.018	0.018	0.019	0.02		-0.005
11:00:00 AM	0.025	0.028	0.028	0.028	0.028		-0.015
11:01:00 AM	0.016	0.018	0.019	0.019	0.019		-0.012
11:02:00 AM	0.015	0.017	0.018	0.018	0.018		-0.02
11:03:00 AM	0.015	0.018	0.018	0.019	0.019		-0.014
11:04:00 AM	0.015	0.018	0.018	0.018	0.018		-0.012
11:05:00 AM	0.015	0.017	0.017	0.017	0.017		-0.014
11:06:00 AM	0.015	0.017	0.018	0.018	0.018		-0.013
11:07:00 AM	0.014	0.017	0.017	0.017	0.017		-0.012
11:08:00 AM	0.014	0.017	0.017	0.017	0.017		-0.011
11:09:00 AM	0.014	0.017	0.017	0.017	0.017		-0.012
11:10:00 AM	0.014	0.016	0.017	0.017	0.017		-0.011
11:11:00 AM	0.014	0.017	0.017	0.017	0.017		-0.01
11:12:00 AM	0.014	0.017	0.017	0.017	0.017		-0.014
11:13:00 AM	0.014	0.016	0.016	0.017	0.017		-0.028
11:14:00 AM	0.014	0.017	0.017	0.017	0.017		-0.017
11:15:00 AM	0.015	0.017	0.017	0.018	0.018		-0.013
11:16:00 AM	0.015	0.017	0.018	0.018	0.018		-0.014
11:17:00 AM	0.015	0.017	0.017	0.018	0.018		-0.034
11:18:00 AM	0.014	0.016	0.016	0.017	0.017		-0.026
							-0.019

11:19:00 AM	0.029	0.031	0.033	0.04	0.042	11:19:00 AM	0.013	0.016	0.016	0.016	0.016	-0.01
11:20:00 AM	0.025	0.026	0.028	0.034	0.036	11:20:00 AM	0.014	0.016	0.017	0.017	0.017	-0.011
11:21:00 AM	0.02	0.021	0.023	0.027	0.027	11:21:00 AM	0.014	0.016	0.016	0.016	0.017	-0.014
11:22:00 AM	0.021	0.023	0.024	0.028	0.029	11:22:00 AM	0.014	0.017	0.017	0.018	0.018	-0.008
11:23:00 AM	0.021	0.022	0.024	0.029	0.031	11:23:00 AM	0.014	0.016	0.017	0.017	0.017	-0.007
11:24:00 AM	0.019	0.02	0.022	0.026	0.027	11:24:00 AM	0.015	0.018	0.018	0.019	0.019	-0.009
11:25:00 AM	0.019	0.02	0.021	0.024	0.024	11:25:00 AM	0.014	0.017	0.017	0.017	0.017	-0.008
11:26:00 AM	0.02	0.021	0.022	0.026	0.026	11:26:00 AM	0.014	0.016	0.017	0.017	0.017	-0.011
11:27:00 AM	0.019	0.02	0.022	0.025	0.025	11:27:00 AM	0.014	0.016	0.017	0.017	0.017	-0.006
11:28:00 AM	0.019	0.021	0.022	0.026	0.027	11:28:00 AM	0.014	0.016	0.016	0.016	0.016	-0.012
11:29:00 AM	0.019	0.02	0.021	0.023	0.024	11:29:00 AM	0.016	0.018	0.018	0.018	0.018	-0.015
11:30:00 AM	0.021	0.022	0.024	0.028	0.029	11:30:00 AM	0.014	0.017	0.017	0.017	0.017	-0.012
11:31:00 AM	0.023	0.024	0.025	0.03	0.032	11:31:00 AM	0.014	0.016	0.016	0.017	0.017	-0.017
11:32:00 AM	0.021	0.022	0.023	0.028	0.029	11:32:00 AM	0.014	0.017	0.017	0.017	0.017	-0.008
11:33:00 AM	0.022	0.023	0.025	0.031	0.033	11:33:00 AM	0.014	0.016	0.016	0.016	0.016	-0.013
11:34:00 AM	0.019	0.02	0.022	0.025	0.025	11:34:00 AM	0.014	0.016	0.017	0.017	0.017	-0.017
11:35:00 AM	0.02	0.022	0.023	0.028	0.029	11:35:00 AM	0.014	0.016	0.016	0.016	0.016	-0.017
11:36:00 AM	0.022	0.023	0.025	0.031	0.033	11:36:00 AM	0.014	0.016	0.016	0.016	0.016	-0.02
11:37:00 AM	0.023	0.024	0.026	0.032	0.033	11:37:00 AM	0.014	0.016	0.016	0.016	0.016	-0.016
11:38:00 AM	0.025	0.026	0.028	0.034	0.036	11:38:00 AM	0.014	0.016	0.016	0.016	0.016	-0.012
11:39:00 AM	0.024	0.025	0.026	0.032	0.033	11:39:00 AM	0.014	0.016	0.016	0.017	0.017	-0.005
11:40:00 AM	0.02	0.022	0.023	0.027	0.028	11:40:00 AM	0.013	0.015	0.016	0.016	0.016	-0.009
11:41:00 AM	0.017	0.018	0.019	0.021	0.021	11:41:00 AM	0.013	0.015	0.016	0.016	0.016	-0.009
11:42:00 AM	0.018	0.02	0.021	0.025	0.025	11:42:00 AM	0.013	0.016	0.016	0.016	0.016	-0.008
11:43:00 AM	0.019	0.02	0.021	0.024	0.025	11:43:00 AM	0.013	0.015	0.015	0.016	0.016	-0.008
11:44:00 AM	0.018	0.019	0.02	0.023	0.024	11:44:00 AM	0.013	0.016	0.016	0.016	0.016	-0.014
11:45:00 AM	0.018	0.019	0.02	0.023	0.024	11:45:00 AM	0.013	0.015	0.015	0.016	0.016	-0.008
11:46:00 AM	0.02	0.021	0.023	0.028	0.03	11:46:00 AM	0.013	0.015	0.016	0.016	0.016	-0.007
11:47:00 AM	0.018	0.019	0.02	0.023	0.024	11:47:00 AM	0.014	0.016	0.016	0.016	0.016	-0.009
11:48:00 AM	0.017	0.018	0.019	0.022	0.023	11:48:00 AM	0.013	0.015	0.016	0.016	0.016	-0.01
11:49:00 AM	0.018	0.019	0.02	0.024	0.024	11:49:00 AM	0.013	0.015	0.015	0.015	0.015	-0.02
11:50:00 AM	0.018	0.019	0.02	0.024	0.026	11:50:00 AM	0.013	0.015	0.016	0.016	0.016	-0.014
11:51:00 AM	0.023	0.024	0.026	0.034	0.036	11:51:00 AM	0.013	0.015	0.015	0.016	0.016	-0.014
11:52:00 AM	0.021	0.022	0.023	0.029	0.03	11:52:00 AM	0.014	0.016	0.016	0.016	0.016	-0.008
11:53:00 AM	0.02	0.021	0.022	0.028	0.029	11:53:00 AM	0.013	0.015	0.015	0.015	0.015	-0.009
11:54:00 AM	0.018	0.019	0.02	0.023	0.024	11:54:00 AM	0.013	0.015	0.015	0.016	0.016	-0.018
11:55:00 AM	0.018	0.019	0.021	0.024	0.024	11:55:00 AM	0.013	0.015	0.015	0.015	0.015	-0.007
11:56:00 AM	0.021	0.022	0.024	0.031	0.033	11:56:00 AM	0.013	0.014	0.015	0.015	0.015	-0.014
11:57:00 AM	0.018	0.019	0.02	0.023	0.023	11:57:00 AM	0.013	0.015	0.015	0.016	0.016	-0.007
11:58:00 AM	0.019	0.02	0.021	0.027	0.029	11:58:00 AM	0.013	0.015	0.015	0.015	0.015	-0.017
11:59:00 AM	0.017	0.019	0.02	0.023	0.023	11:59:00 AM	0.013	0.015	0.016	0.016	0.016	-0.007
12:00:00 PM	0.02	0.021	0.023	0.031	0.032	12:00:00 PM	0.013	0.015	0.015	0.015	0.015	-0.009
12:01:00 PM	0.018	0.019	0.02	0.022	0.023	12:01:00 PM	0.013	0.015	0.015	0.016	0.016	-0.008
12:02:00 PM	0.018	0.019	0.02	0.024	0.025	12:02:00 PM	0.013	0.015	0.016	0.016	0.016	-0.018
12:03:00 PM	0.018	0.019	0.02	0.023	0.024	12:03:00 PM	0.013	0.015	0.015	0.016	0.016	-0.012
12:04:00 PM	0.02	0.021	0.023	0.032	0.033	12:04:00 PM	0.013	0.014	0.015	0.015	0.015	-0.008
12:05:00 PM	0.019	0.02	0.021	0.027	0.028	12:05:00 PM	0.013	0.015	0.015	0.016	0.016	-0.007
12:06:00 PM	0.017	0.018	0.02	0.023	0.024	12:06:00 PM	0.013	0.015	0.016	0.016	0.016	-0.013
12:07:00 PM	0.017	0.018	0.019	0.021	0.022	12:07:00 PM	0.013	0.015	0.015	0.015	0.015	-0.013
12:08:00 PM	0.019	0.02	0.022	0.027	0.028	12:08:00 PM	0.013	0.015	0.015	0.015	0.015	-0.007
12:09:00 PM	0.021	0.022	0.023	0.028	0.029	12:09:00 PM	0.013	0.015	0.015	0.016	0.016	-0.008
12:10:00 PM	0.017	0.018	0.02	0.023	0.023	12:10:00 PM	0.013	0.015	0.015	0.016	0.016	-0.013
12:11:00 PM	0.018	0.019	0.02	0.024	0.024	12:11:00 PM	0.013	0.015	0.015	0.016	0.016	-0.011
12:12:00 PM	0.02	0.021	0.022	0.026	0.028	12:12:00 PM	0.013	0.015	0.015	0.015	0.015	-0.01
12:13:00 PM	0.019	0.02	0.021	0.026	0.026	12:13:00 PM	0.013	0.014	0.015	0.015	0.015	-0.01
12:14:00 PM	0.018	0.019	0.021	0.024	0.025	12:14:00 PM	0.013	0.015	0.015	0.015	0.015	-0.011
12:15:00 PM	0.018	0.019	0.021	0.024	0.025	12:15:00 PM	0.013	0.015	0.015	0.015	0.015	-0.022
12:16:00 PM	0.019	0.02	0.021	0.026	0.027	12:16:00 PM	0.013	0.015	0.015	0.016	0.016	-0.011
12:17:00 PM	0.024	0.025	0.026	0.036	0.037	12:17:00 PM	0.013	0.015	0.015	0.015	0.015	-0.018
12:18:00 PM	0.018	0.019	0.021	0.025	0.026	12:18:00 PM	0.012	0.014	0.015	0.015	0.015	-0.012
12:19:00 PM	0.021	0.022	0.023	0.031	0.033	12:19:00 PM	0.013	0.015	0.015	0.015	0.015	-0.009
12:20:00 PM	0.02	0.021	0.022	0.027	0.028	12:20:00 PM	0.013	0.016	0.016	0.016	0.016	-0.009
12:21:00 PM	0.018	0.02	0.021	0.024	0.025	12:21:00 PM	0.013	0.015	0.016	0.016	0.016	-0.011
12:22:00 PM	0.018	0.019	0.021	0.024	0.025	12:22:00 PM	0.014	0.016	0.016	0.016	0.016	-0.012
12:23:00 PM	0.019	0.02	0.021	0.025	0.026	12:23:00 PM	0.013	0.015	0.015	0.015	0.015	-0.011

12:24:00 PM	0.019	0.021	0.022	0.027	0.028	12:24:00 PM	0.013	0.016	0.016	0.016	0.016	-0.014
12:25:00 PM	0.019	0.021	0.022	0.026	0.027	12:25:00 PM	0.014	0.016	0.016	0.016	0.016	-0.011
12:26:00 PM	0.021	0.022	0.023	0.028	0.03	12:26:00 PM	0.013	0.015	0.016	0.016	0.016	-0.015
12:27:00 PM	0.019	0.021	0.022	0.027	0.027	12:27:00 PM	0.013	0.015	0.016	0.016	0.016	-0.016
12:28:00 PM	0.022	0.023	0.024	0.029	0.031	12:28:00 PM	0.013	0.016	0.016	0.016	0.016	-0.01
12:29:00 PM	0.021	0.022	0.024	0.03	0.032	12:29:00 PM	0.014	0.016	0.016	0.016	0.016	-0.011
12:30:00 PM	0.018	0.019	0.021	0.024	0.025	12:30:00 PM	0.013	0.015	0.015	0.015	0.015	-0.006
12:31:00 PM	0.02	0.021	0.022	0.027	0.027	12:31:00 PM	0.013	0.015	0.015	0.016	0.016	-0.009
12:32:00 PM	0.017	0.018	0.02	0.022	0.022	12:32:00 PM	0.013	0.015	0.015	0.016	0.016	-0.01
12:33:00 PM	0.018	0.019	0.02	0.023	0.024	12:33:00 PM	0.013	0.015	0.015	0.015	0.015	-0.013
12:34:00 PM	0.018	0.019	0.02	0.024	0.025	12:34:00 PM	0.013	0.015	0.015	0.015	0.015	-0.012
12:35:00 PM	0.02	0.021	0.022	0.027	0.028	12:35:00 PM	0.012	0.014	0.015	0.015	0.015	-0.008
12:36:00 PM	0.02	0.021	0.022	0.027	0.028	12:36:00 PM	0.013	0.015	0.015	0.016	0.016	-0.008
12:37:00 PM	0.018	0.019	0.021	0.024	0.024	12:37:00 PM	0.013	0.015	0.016	0.016	0.016	-0.01
12:38:00 PM	0.018	0.019	0.02	0.022	0.023	12:38:00 PM	0.013	0.015	0.015	0.015	0.015	-0.007
12:39:00 PM	0.018	0.019	0.021	0.024	0.025	12:39:00 PM	0.013	0.015	0.015	0.015	0.015	-0.011
12:40:00 PM	0.018	0.019	0.02	0.023	0.023	12:40:00 PM	0.013	0.015	0.015	0.015	0.016	-0.01
12:41:00 PM	0.019	0.02	0.021	0.025	0.026	12:41:00 PM	0.012	0.014	0.014	0.015	0.015	-0.009
12:42:00 PM	0.018	0.019	0.02	0.023	0.025	12:42:00 PM	0.013	0.015	0.015	0.015	0.015	-0.01
12:43:00 PM	0.018	0.019	0.02	0.024	0.025	12:43:00 PM	0.013	0.015	0.016	0.016	0.016	-0.015
12:44:00 PM	0.018	0.019	0.02	0.024	0.024	12:44:00 PM	0.012	0.014	0.014	0.014	0.014	-0.009
12:45:00 PM	0.02	0.021	0.022	0.028	0.03	12:45:00 PM	0.012	0.014	0.014	0.015	0.015	-0.01
12:46:00 PM	0.018	0.019	0.02	0.024	0.025	12:46:00 PM	0.013	0.015	0.015	0.016	0.016	-0.013
12:47:00 PM	0.018	0.019	0.02	0.023	0.024	12:47:00 PM	0.012	0.013	0.014	0.014	0.014	-0.011
12:48:00 PM	0.019	0.02	0.021	0.027	0.028	12:48:00 PM	0.012	0.014	0.014	0.015	0.015	-0.019
12:49:00 PM	0.019	0.02	0.021	0.025	0.027	12:49:00 PM	0.013	0.015	0.015	0.016	0.016	-0.014
12:50:00 PM	0.021	0.022	0.024	0.032	0.033	12:50:00 PM	0.012	0.014	0.014	0.014	0.014	-0.009
12:51:00 PM	0.02	0.021	0.022	0.028	0.029	12:51:00 PM	0.012	0.014	0.014	0.015	0.015	-0.01
12:52:00 PM	0.018	0.019	0.021	0.023	0.023	12:52:00 PM	0.012	0.013	0.014	0.014	0.014	-0.007
12:53:00 PM	0.018	0.02	0.021	0.024	0.024	12:53:00 PM	0.012	0.014	0.014	0.014	0.014	-0.006
12:54:00 PM	0.017	0.018	0.019	0.021	0.021	12:54:00 PM	0.011	0.013	0.013	0.014	0.014	-0.01
12:55:00 PM	0.017	0.018	0.019	0.021	0.021	12:55:00 PM	0.012	0.014	0.015	0.015	0.015	-0.01
12:56:00 PM	0.018	0.019	0.02	0.023	0.024	12:56:00 PM	0.012	0.014	0.014	0.014	0.014	-0.007
12:57:00 PM	0.018	0.019	0.02	0.023	0.024	12:57:00 PM	0.011	0.013	0.014	0.014	0.014	-0.005
12:58:00 PM	0.017	0.018	0.019	0.021	0.021	12:58:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
12:59:00 PM	0.017	0.018	0.019	0.02	0.02	12:59:00 PM	0.012	0.014	0.015	0.015	0.015	-0.007
1:00:00 PM	0.017	0.018	0.019	0.022	0.022	1:00:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
1:01:00 PM	0.017	0.018	0.019	0.02	0.021	1:01:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
1:02:00 PM	0.018	0.019	0.02	0.021	0.022	1:02:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
1:03:00 PM	0.017	0.018	0.019	0.021	0.021	1:03:00 PM	0.011	0.013	0.013	0.013	0.013	-0.008
1:04:00 PM	0.017	0.018	0.019	0.02	0.021	1:04:00 PM	0.011	0.013	0.013	0.013	0.013	-0.007
1:05:00 PM	0.018	0.019	0.02	0.022	0.022	1:05:00 PM	0.012	0.014	0.014	0.014	0.014	-0.006
1:06:00 PM	0.017	0.018	0.019	0.021	0.021	1:06:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
1:07:00 PM	0.017	0.018	0.019	0.021	0.021	1:07:00 PM	0.012	0.014	0.014	0.014	0.015	-0.01
1:08:00 PM	0.017	0.018	0.019	0.022	0.022	1:08:00 PM	0.011	0.013	0.013	0.014	0.014	-0.011
1:09:00 PM	0.018	0.019	0.021	0.023	0.024	1:09:00 PM	0.011	0.013	0.014	0.014	0.014	-0.013
1:10:00 PM	0.018	0.019	0.02	0.023	0.024	1:10:00 PM	0.011	0.013	0.013	0.013	0.013	-0.009
1:11:00 PM	0.018	0.019	0.021	0.024	0.026	1:11:00 PM	0.011	0.013	0.013	0.013	0.013	-0.008
1:12:00 PM	0.017	0.018	0.019	0.023	0.024	1:12:00 PM	0.013	0.015	0.015	0.015	0.015	-0.01
1:13:00 PM	0.019	0.02	0.021	0.024	0.025	1:13:00 PM	0.015	0.016	0.017	0.017	0.017	-0.016
1:14:00 PM	0.018	0.019	0.02	0.023	0.024	1:14:00 PM	0.012	0.014	0.014	0.014	0.014	-0.01
1:15:00 PM	0.022	0.023	0.024	0.03	0.03	1:15:00 PM	0.012	0.014	0.014	0.014	0.014	-0.01
1:16:00 PM	0.018	0.019	0.02	0.023	0.024	1:16:00 PM	0.012	0.014	0.014	0.014	0.014	-0.008
1:17:00 PM	0.018	0.019	0.021	0.025	0.025	1:17:00 PM	0.012	0.014	0.014	0.015	0.015	-0.01
1:18:00 PM	0.018	0.019	0.019	0.022	0.022	1:18:00 PM	0.012	0.014	0.014	0.014	0.014	-0.011
1:19:00 PM	0.018	0.019	0.02	0.024	0.024	1:19:00 PM	0.011	0.013	0.013	0.013	0.014	-0.013
1:20:00 PM	0.018	0.019	0.02	0.024	0.024	1:20:00 PM	0.011	0.013	0.013	0.013	0.013	-0.02
1:21:00 PM	0.018	0.019	0.02	0.025	0.026	1:21:00 PM	0.011	0.013	0.013	0.013	0.013	-0.012
1:22:00 PM	0.021	0.022	0.025	0.033	0.034	1:22:00 PM	0.012	0.014	0.014	0.014	0.014	-0.015
1:23:00 PM	0.018	0.019	0.021	0.025	0.025	1:23:00 PM	0.011	0.013	0.013	0.013	0.013	-0.017
1:24:00 PM	0.02	0.021	0.022	0.027	0.028	1:24:00 PM	0.011	0.012	0.013	0.013	0.013	-0.014
1:25:00 PM	0.02	0.021	0.022	0.029	0.03	1:25:00 PM	0.011	0.012	0.013	0.013	0.013	-0.014
1:26:00 PM	0.019	0.02	0.021	0.026	0.027	1:26:00 PM	0.011	0.013	0.013	0.013	0.013	-0.019
1:27:00 PM	0.019	0.02	0.021	0.026	0.027	1:27:00 PM	0.01	0.012	0.013	0.013	0.013	-0.022
1:28:00 PM	0.02	0.021	0.023	0.03	0.032	1:28:00 PM	0.01	0.012	0.012	0.013	0.013	-0.006

1:29:00 PM	0.022	0.023	0.025	0.031	0.035	1:29:00 PM	0.01	0.012	0.012	0.012	0.013	-0.004
1:30:00 PM	0.016	0.017	0.017	0.019	0.02	1:30:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
1:31:00 PM	0.016	0.016	0.017	0.018	0.018	1:31:00 PM	0.011	0.013	0.013	0.014	0.014	-0.006
1:32:00 PM	0.016	0.017	0.017	0.018	0.018	1:32:00 PM	0.012	0.014	0.014	0.014	0.014	-0.003
1:33:00 PM	0.016	0.017	0.017	0.019	0.019	1:33:00 PM	0.01	0.012	0.012	0.013	0.013	-0.004
1:34:00 PM	0.015	0.016	0.016	0.016	0.016	1:34:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
1:35:00 PM	0.015	0.016	0.016	0.017	0.017	1:35:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
1:36:00 PM	0.015	0.016	0.017	0.017	0.017	1:36:00 PM	0.011	0.012	0.013	0.013	0.013	-0.005
1:37:00 PM	0.015	0.016	0.017	0.017	0.017	1:37:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
1:38:00 PM	0.016	0.017	0.017	0.018	0.018	1:38:00 PM	0.011	0.012	0.013	0.013	0.013	-0.003
1:39:00 PM	0.015	0.016	0.017	0.017	0.017	1:39:00 PM	0.011	0.012	0.013	0.013	0.013	-0.004
1:40:00 PM	0.015	0.016	0.016	0.017	0.017	1:40:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
1:41:00 PM	0.015	0.016	0.016	0.017	0.017	1:41:00 PM	0.011	0.012	0.013	0.013	0.013	-0.005
1:42:00 PM	0.015	0.016	0.017	0.017	0.017	1:42:00 PM	0.01	0.012	0.012	0.013	0.013	-0.006
1:43:00 PM	0.016	0.016	0.017	0.017	0.017	1:43:00 PM	0.01	0.012	0.012	0.012	0.012	-0.005
1:44:00 PM	0.016	0.016	0.017	0.017	0.017	1:44:00 PM	0.009	0.011	0.011	0.011	0.011	-0.002
1:45:00 PM	0.015	0.016	0.016	0.017	0.017	1:45:00 PM	0.01	0.012	0.012	0.012	0.012	-0.005
1:46:00 PM	0.014	0.015	0.015	0.016	0.016	1:46:00 PM	0.011	0.012	0.013	0.014	0.014	-0.005
1:47:00 PM	0.016	0.017	0.017	0.019	0.019	1:47:00 PM	0.011	0.013	0.013	0.013	0.014	-0.005
1:48:00 PM	0.016	0.016	0.017	0.018	0.018	1:48:00 PM	0.01	0.012	0.013	0.013	0.013	-0.004
1:49:00 PM	0.015	0.016	0.016	0.017	0.017	1:49:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
1:50:00 PM	0.015	0.016	0.016	0.017	0.017	1:50:00 PM	0.011	0.013	0.013	0.013	0.013	-0.006
1:51:00 PM	0.015	0.016	0.017	0.017	0.017	1:51:00 PM	0.011	0.013	0.013	0.014	0.014	-0.007
1:52:00 PM	0.016	0.017	0.018	0.019	0.019	1:52:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
1:53:00 PM	0.017	0.018	0.018	0.019	0.019	1:53:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
1:54:00 PM	0.016	0.016	0.017	0.017	0.017	1:54:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
1:55:00 PM	0.015	0.016	0.016	0.017	0.017	1:55:00 PM	0.01	0.012	0.012	0.013	0.013	-0.005
1:56:00 PM	0.015	0.016	0.016	0.016	0.016	1:56:00 PM	0.01	0.012	0.012	0.013	0.013	-0.004
1:57:00 PM	0.015	0.016	0.017	0.017	0.017	1:57:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
1:58:00 PM	0.015	0.015	0.016	0.016	0.016	1:58:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
1:59:00 PM	0.015	0.016	0.016	0.017	0.017	1:59:00 PM	0.01	0.012	0.013	0.013	0.013	-0.005
2:00:00 PM	0.015	0.015	0.016	0.016	0.016	2:00:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
2:01:00 PM	0.016	0.016	0.017	0.017	0.017	2:01:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
2:02:00 PM	0.016	0.016	0.017	0.017	0.017	2:02:00 PM	0.01	0.012	0.013	0.013	0.013	-0.003
2:03:00 PM	0.015	0.016	0.016	0.016	0.016	2:03:00 PM	0.011	0.013	0.013	0.013	0.013	-0.003
2:04:00 PM	0.015	0.016	0.017	0.017	0.017	2:04:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
2:05:00 PM	0.016	0.016	0.017	0.017	0.017	2:05:00 PM	0.011	0.013	0.014	0.014	0.014	-0.005
2:06:00 PM	0.016	0.017	0.018	0.018	0.018	2:06:00 PM	0.011	0.013	0.013	0.014	0.014	-0.005
2:07:00 PM	0.016	0.017	0.018	0.018	0.018	2:07:00 PM	0.01	0.012	0.012	0.013	0.013	-0.005
2:08:00 PM	0.016	0.017	0.017	0.018	0.018	2:08:00 PM	0.01	0.012	0.012	0.013	0.013	-0.005
2:09:00 PM	0.015	0.016	0.016	0.017	0.017	2:09:00 PM	0.01	0.011	0.012	0.012	0.012	-0.002
2:10:00 PM	0.015	0.016	0.016	0.017	0.017	2:10:00 PM	0.01	0.012	0.012	0.012	0.012	0
2:11:00 PM	0.016	0.017	0.017	0.018	0.018	2:11:00 PM	0.012	0.014	0.015	0.016	0.016	-0.005
2:12:00 PM	0.015	0.016	0.016	0.017	0.017	2:12:00 PM	0.012	0.014	0.015	0.017	0.017	-0.003
2:13:00 PM	0.015	0.016	0.016	0.017	0.017	2:13:00 PM	0.01	0.011	0.012	0.012	0.012	-0.005
2:14:00 PM	0.014	0.015	0.015	0.016	0.016	2:14:00 PM	0.01	0.012	0.012	0.013	0.013	-0.003
2:15:00 PM	0.015	0.016	0.016	0.017	0.017	2:15:00 PM	0.01	0.011	0.011	0.012	0.012	-0.004
2:16:00 PM	0.015	0.016	0.017	0.017	0.017	2:16:00 PM	0.011	0.013	0.013	0.014	0.014	-0.006
2:17:00 PM	0.015	0.016	0.016	0.017	0.017	2:17:00 PM	0.011	0.012	0.013	0.013	0.013	-0.007
2:18:00 PM	0.016	0.017	0.017	0.018	0.018	2:18:00 PM	0.01	0.012	0.012	0.012	0.012	-0.006
2:19:00 PM	0.017	0.018	0.018	0.019	0.019	2:19:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
2:20:00 PM	0.015	0.016	0.016	0.017	0.017	2:20:00 PM	0.009	0.011	0.011	0.011	0.011	-0.001
2:21:00 PM	0.015	0.016	0.016	0.016	0.016	2:21:00 PM	0.01	0.012	0.012	0.013	0.013	-0.002
2:22:00 PM	0.015	0.016	0.017	0.017	0.017	2:22:00 PM	0.012	0.014	0.015	0.016	0.016	-0.005
2:23:00 PM	0.015	0.016	0.017	0.017	0.017	2:23:00 PM	0.011	0.013	0.014	0.015	0.015	-0.005
2:24:00 PM	0.015	0.016	0.017	0.018	0.018	2:24:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
2:25:00 PM	0.015	0.016	0.016	0.017	0.017	2:25:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
2:26:00 PM	0.015	0.016	0.017	0.017	0.017	2:26:00 PM	0.01	0.011	0.011	0.012	0.012	-0.002
2:27:00 PM	0.015	0.016	0.016	0.016	0.016	2:27:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
2:28:00 PM	0.014	0.015	0.015	0.016	0.016	2:28:00 PM	0.011	0.013	0.014	0.014	0.014	-0.005
2:29:00 PM	0.015	0.016	0.017	0.017	0.017	2:29:00 PM	0.011	0.013	0.013	0.014	0.014	-0.007
2:30:00 PM	0.016	0.017	0.017	0.018	0.018	2:30:00 PM	0.01	0.012	0.012	0.013	0.013	-0.006
2:31:00 PM	0.016	0.017	0.018	0.019	0.019	2:31:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
2:32:00 PM	0.017	0.017	0.018	0.018	0.018	2:32:00 PM	0.01	0.012	0.012	0.012	0.012	-0.004
2:33:00 PM	0.016	0.017	0.017	0.017	0.017	2:33:00 PM	0.011	0.012	0.013	0.013	0.013	-0.004

2:34:00 PM	0.015	0.016	0.016	0.017	0.017	2:34:00 PM	0.011	0.012	0.013	0.013	0.013	-0.008
2:35:00 PM	0.016	0.017	0.017	0.018	0.018	2:35:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
2:36:00 PM	0.017	0.018	0.019	0.021	0.021	2:36:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
2:37:00 PM	0.016	0.017	0.018	0.018	0.018	2:37:00 PM	0.011	0.013	0.013	0.014	0.014	-0.003
2:38:00 PM	0.016	0.017	0.017	0.017	0.017	2:38:00 PM	0.011	0.013	0.013	0.013	0.013	-0.006
2:39:00 PM	0.015	0.016	0.016	0.017	0.017	2:39:00 PM	0.012	0.014	0.014	0.014	0.014	-0.006
2:40:00 PM	0.017	0.017	0.018	0.019	0.019	2:40:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
2:41:00 PM	0.017	0.018	0.018	0.019	0.019	2:41:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
2:42:00 PM	0.016	0.017	0.017	0.017	0.017	2:42:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
2:43:00 PM	0.016	0.017	0.017	0.018	0.018	2:43:00 PM	0.011	0.012	0.013	0.013	0.013	-0.004
2:44:00 PM	0.016	0.017	0.018	0.018	0.018	2:44:00 PM	0.011	0.013	0.014	0.014	0.014	-0.002
2:45:00 PM	0.016	0.016	0.017	0.018	0.018	2:45:00 PM	0.011	0.013	0.013	0.014	0.014	-0.005
2:46:00 PM	0.015	0.016	0.017	0.017	0.017	2:46:00 PM	0.012	0.014	0.015	0.015	0.015	-0.004
2:47:00 PM	0.016	0.017	0.018	0.018	0.018	2:47:00 PM	0.01	0.012	0.012	0.013	0.013	-0.004
2:48:00 PM	0.016	0.017	0.017	0.017	0.017	2:48:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
2:49:00 PM	0.016	0.016	0.017	0.017	0.017	2:49:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
2:50:00 PM	0.016	0.017	0.017	0.018	0.018	2:50:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
2:51:00 PM	0.016	0.017	0.017	0.017	0.017	2:51:00 PM	0.01	0.012	0.012	0.013	0.013	-0.004
2:52:00 PM	0.016	0.017	0.017	0.017	0.017	2:52:00 PM	0.009	0.011	0.011	0.011	0.012	-0.004
2:53:00 PM	0.016	0.016	0.017	0.017	0.017	2:53:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
2:54:00 PM	0.016	0.016	0.017	0.017	0.017	2:54:00 PM	0.01	0.012	0.012	0.013	0.013	-0.006
2:55:00 PM	0.016	0.017	0.017	0.018	0.018	2:55:00 PM	0.01	0.012	0.013	0.013	0.013	-0.005
2:56:00 PM	0.016	0.017	0.017	0.019	0.019	2:56:00 PM	0.011	0.013	0.013	0.013	0.013	-0.001
2:57:00 PM	0.016	0.017	0.017	0.018	0.018	2:57:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
2:58:00 PM	0.016	0.017	0.018	0.018	0.018	2:58:00 PM	0.014	0.016	0.017	0.017	0.017	-0.005
2:59:00 PM	0.016	0.017	0.017	0.017	0.017	2:59:00 PM	0.011	0.013	0.013	0.013	0.013	-0.003
3:00:00 PM	0.016	0.017	0.018	0.019	0.019	3:00:00 PM	0.011	0.014	0.014	0.014	0.014	-0.006
3:01:00 PM	0.016	0.017	0.018	0.018	0.018	3:01:00 PM	0.012	0.014	0.015	0.015	0.015	-0.008
3:02:00 PM	0.017	0.017	0.018	0.019	0.019	3:02:00 PM	0.011	0.013	0.013	0.013	0.013	-0.003
3:03:00 PM	0.017	0.018	0.019	0.02	0.02	3:03:00 PM	0.009	0.011	0.011	0.012	0.012	-0.004
3:04:00 PM	0.014	0.015	0.016	0.016	0.016	3:04:00 PM	0.01	0.012	0.013	0.013	0.013	-0.003
3:05:00 PM	0.015	0.016	0.017	0.017	0.017	3:05:00 PM	0.01	0.012	0.013	0.013	0.013	-0.003
3:06:00 PM	0.015	0.016	0.017	0.017	0.017	3:06:00 PM	0.011	0.014	0.014	0.014	0.014	-0.004
3:07:00 PM	0.015	0.016	0.017	0.017	0.017	3:07:00 PM	0.011	0.013	0.014	0.014	0.014	-0.006
3:08:00 PM	0.016	0.017	0.017	0.017	0.017	3:08:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
3:09:00 PM	0.016	0.017	0.018	0.018	0.018	3:09:00 PM	0.01	0.012	0.012	0.012	0.012	-0.005
3:10:00 PM	0.016	0.016	0.017	0.018	0.018	3:10:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
3:11:00 PM	0.016	0.017	0.017	0.018	0.018	3:11:00 PM	0.011	0.012	0.013	0.013	0.013	-0.006
3:12:00 PM	0.016	0.017	0.017	0.018	0.018	3:12:00 PM	0.011	0.012	0.012	0.013	0.013	-0.004
3:13:00 PM	0.016	0.017	0.017	0.018	0.018	3:13:00 PM	0.01	0.012	0.012	0.012	0.012	-0.003
3:14:00 PM	0.016	0.016	0.017	0.017	0.017	3:14:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
3:15:00 PM	0.015	0.016	0.016	0.017	0.017	3:15:00 PM	0.011	0.013	0.013	0.014	0.014	-0.005
3:16:00 PM	0.016	0.016	0.017	0.018	0.018	3:16:00 PM	0.01	0.012	0.012	0.013	0.013	-0.002
3:17:00 PM	0.016	0.017	0.017	0.018	0.018	3:17:00 PM	0.011	0.013	0.013	0.013	0.013	0.001
3:18:00 PM	0.015	0.016	0.016	0.016	0.016	3:18:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
3:19:00 PM	0.016	0.016	0.017	0.018	0.018	3:19:00 PM	0.013	0.016	0.017	0.018	0.019	-0.005
3:20:00 PM	0.016	0.017	0.018	0.018	0.018	3:20:00 PM	0.011	0.013	0.014	0.014	0.014	-0.003
3:21:00 PM	0.016	0.017	0.018	0.018	0.018	3:21:00 PM	0.011	0.013	0.013	0.013	0.013	-0.005
3:22:00 PM	0.016	0.017	0.017	0.017	0.017	3:22:00 PM	0.011	0.013	0.013	0.014	0.014	-0.003
3:23:00 PM	0.016	0.016	0.017	0.017	0.017	3:23:00 PM	0.01	0.012	0.012	0.012	0.012	-0.001
3:24:00 PM	0.016	0.017	0.017	0.017	0.017	3:24:00 PM	0.011	0.013	0.014	0.014	0.014	0.009
3:25:00 PM	0.015	0.016	0.017	0.017	0.017	3:25:00 PM	0.014	0.016	0.016	0.016	0.016	0.002
3:26:00 PM	0.017	0.018	0.018	0.019	0.019	3:26:00 PM	0.026	0.028	0.028	0.028	0.028	0.001
3:27:00 PM	0.016	0.017	0.017	0.018	0.018	3:27:00 PM	0.016	0.019	0.019	0.02	0.02	-0.002
3:28:00 PM	0.015	0.016	0.017	0.017	0.017	3:28:00 PM	0.015	0.017	0.017	0.018	0.018	0.003
3:29:00 PM	0.017	0.018	0.019	0.02	0.02	3:29:00 PM	0.015	0.017	0.018	0.018	0.018	0.057
3:30:00 PM	0.016	0.017	0.017	0.017	0.017	3:30:00 PM	0.017	0.02	0.02	0.02	0.02	0.003
3:31:00 PM	0.016	0.017	0.018	0.019	0.019	3:31:00 PM	0.072	0.075	0.075	0.076	0.076	-0.001
3:32:00 PM	0.016	0.017	0.017	0.017	0.017	3:32:00 PM	0.017	0.019	0.02	0.02	0.02	0.001
3:33:00 PM	0.015	0.016	0.016	0.017	0.017	3:33:00 PM	0.014	0.016	0.016	0.016	0.016	0.015
3:34:00 PM	0.016	0.017	0.017	0.018	0.018	3:34:00 PM	0.015	0.018	0.018	0.019	0.019	0.006
3:35:00 PM	0.016	0.017	0.018	0.018	0.018	3:35:00 PM	0.03	0.032	0.033	0.033	0.033	0.051
3:36:00 PM	0.015	0.016	0.017	0.017	0.017	3:36:00 PM	0.021	0.023	0.023	0.023	0.023	0.006
3:37:00 PM	0.015	0.016	0.017	0.017	0.017	3:37:00 PM	0.065	0.067	0.067	0.068	0.068	0.001
3:38:00 PM	0.016	0.017	0.018	0.018	0.018	3:38:00 PM	0.021	0.023	0.023	0.024	0.024	0.003

3:39:00 PM	0.016	0.016	0.017	0.018	0.018
3:40:00 PM	0.016	0.017	0.017	0.018	0.018
3:41:00 PM	0.016	0.017	0.017	0.018	0.018
3:42:00 PM	0.016	0.017	0.017	0.018	0.018
3:43:00 PM	0.017	0.018	0.018	0.019	0.019
3:44:00 PM	0.016	0.017	0.017	0.018	0.018
3:45:00 PM	0.016	0.016	0.017	0.017	0.017
3:46:00 PM	0.016	0.017	0.017	0.018	0.018
3:47:00 PM	0.015	0.016	0.016	0.017	0.017
3:48:00 PM	0.016	0.016	0.017	0.017	0.017
3:49:00 PM	0.015	0.016	0.017	0.017	0.017
3:50:00 PM	0.016	0.017	0.017	0.017	0.018
3:51:00 PM	0.017	0.018	0.018	0.019	0.019
3:52:00 PM	0.017	0.018	0.018	0.019	0.019
3:53:00 PM	0.015	0.016	0.017	0.017	0.017
3:54:00 PM	0.015	0.016	0.016	0.017	0.017
3:55:00 PM	0.016	0.017	0.017	0.018	0.018
3:56:00 PM	0.016	0.017	0.017	0.017	0.017
3:57:00 PM	0.015	0.016	0.017	0.017	0.017
3:58:00 PM	0.016	0.016	0.017	0.017	0.017
3:59:00 PM	0.015	0.016	0.017	0.017	0.017
4:00:00 PM	0.017	0.017	0.018	0.019	0.019
4:01:00 PM	0.016	0.017	0.018	0.018	0.018
4:02:00 PM	0.015	0.016	0.016	0.017	0.017
4:03:00 PM	0.015	0.016	0.016	0.017	0.017
4:04:00 PM	0.015	0.016	0.017	0.017	0.017
4:05:00 PM	0.016	0.017	0.017	0.017	0.017
4:06:00 PM	0.016	0.017	0.018	0.018	0.018
4:07:00 PM	0.016	0.017	0.017	0.018	0.018
4:08:00 PM	0.016	0.017	0.018	0.018	0.018
4:09:00 PM	0.017	0.018	0.018	0.019	0.019
4:10:00 PM	0.016	0.017	0.017	0.017	0.017
4:11:00 PM	0.016	0.017	0.017	0.018	0.018
4:12:00 PM	0.016	0.017	0.017	0.018	0.018
4:13:00 PM	0.016	0.017	0.017	0.018	0.018
4:14:00 PM	0.017	0.017	0.018	0.019	0.019
4:15:00 PM	0.017	0.017	0.018	0.018	0.018
4:16:00 PM	0.018	0.018	0.019	0.02	0.02
4:17:00 PM	0.016	0.017	0.018	0.018	0.018
4:18:00 PM	0.015	0.016	0.017	0.017	0.017
4:19:00 PM	0.016	0.017	0.018	0.018	0.018
4:20:00 PM	0.016	0.017	0.018	0.018	0.018
4:21:00 PM	0.016	0.017	0.018	0.018	0.018
4:22:00 PM	0.016	0.017	0.017	0.018	0.018
4:23:00 PM	0.016	0.017	0.017	0.018	0.018
4:24:00 PM	0.016	0.017	0.018	0.018	0.018
4:25:00 PM	0.016	0.017	0.018	0.019	0.019
4:26:00 PM	0.017	0.018	0.018	0.019	0.019
4:27:00 PM	0.017	0.018	0.018	0.019	0.019
4:28:00 PM	0.017	0.018	0.019	0.019	0.019
4:29:00 PM	0.018	0.019	0.019	0.02	0.02

3:39:00 PM	0.017	0.019	0.019	0.019	0.019	0.001
3:40:00 PM	0.019	0.021	0.021	0.021	0.021	0.001
3:41:00 PM	0.017	0.019	0.019	0.019	0.019	0
3:42:00 PM	0.017	0.019	0.019	0.019	0.019	-0.003
3:43:00 PM	0.017	0.019	0.019	0.019	0.019	0.004
3:44:00 PM	0.012	0.014	0.015	0.015	0.015	0
3:45:00 PM	0.018	0.021	0.021	0.021	0.021	0.043
3:46:00 PM	0.015	0.018	0.018	0.018	0.018	0.019
3:47:00 PM	0.057	0.059	0.06	0.06	0.06	0.002
3:48:00 PM	0.033	0.035	0.035	0.036	0.036	0.028
3:49:00 PM	0.017	0.019	0.019	0.019	0.019	0.006
3:50:00 PM	0.043	0.046	0.046	0.046	0.046	0.003
3:51:00 PM	0.023	0.025	0.025	0.025	0.025	0.008
3:52:00 PM	0.019	0.022	0.022	0.022	0.022	0.025
3:53:00 PM	0.022	0.025	0.025	0.025	0.025	0.021
3:54:00 PM	0.036	0.041	0.042	0.042	0.042	-0.001
3:55:00 PM	0.036	0.038	0.038	0.039	0.039	-0.003
3:56:00 PM	0.013	0.015	0.015	0.016	0.016	-0.001
3:57:00 PM	0.011	0.013	0.013	0.014	0.014	-0.003
3:58:00 PM	0.012	0.015	0.015	0.016	0.016	-0.005
3:59:00 PM	0.011	0.013	0.014	0.014	0.014	-0.005
4:00:00 PM	0.011	0.013	0.014	0.014	0.014	-0.004
4:01:00 PM	0.011	0.013	0.013	0.013	0.013	-0.003
4:02:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
4:03:00 PM	0.011	0.013	0.013	0.013	0.014	-0.004
4:04:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
4:05:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
4:06:00 PM	0.011	0.013	0.013	0.014	0.014	-0.005
4:07:00 PM	0.012	0.014	0.014	0.014	0.014	-0.006
4:08:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
4:09:00 PM	0.011	0.013	0.013	0.013	0.013	-0.004
4:10:00 PM	0.011	0.013	0.013	0.013	0.013	-0.003
4:11:00 PM	0.011	0.013	0.013	0.014	0.014	-0.004
4:12:00 PM	0.012	0.014	0.015	0.015	0.015	-0.005
4:13:00 PM	0.011	0.014	0.014	0.014	0.014	-0.004
4:14:00 PM	0.011	0.013	0.014	0.014	0.014	-0.006
4:15:00 PM	0.012	0.014	0.014	0.014	0.014	-0.002
4:16:00 PM	0.012	0.014	0.014	0.014	0.014	0.001
4:17:00 PM	0.014	0.016	0.016	0.016	0.016	-0.003
4:18:00 PM	0.015	0.018	0.018	0.018	0.018	-0.003
4:19:00 PM	0.012	0.015	0.015	0.015	0.015	-0.004
4:20:00 PM	0.012	0.015	0.015	0.015	0.015	-0.004
4:21:00 PM	0.012	0.014	0.014	0.014	0.014	-0.004
4:22:00 PM	0.011	0.013	0.014	0.014	0.014	-0.003
4:23:00 PM	0.012	0.014	0.014	0.014	0.014	-0.003
4:24:00 PM	0.012	0.014	0.014	0.015	0.015	-0.004
4:25:00 PM	0.013	0.015	0.016	0.016	0.016	-0.004
4:26:00 PM	0.012	0.014	0.015	0.015	0.015	-0.003
4:27:00 PM	0.012	0.014	0.015	0.015	0.015	-0.002
4:28:00 PM	0.012	0.015	0.015	0.016	0.016	0.032
4:29:00 PM	0.014	0.017	0.017	0.018	0.018	
4:30:00 PM	0.028	0.031	0.032	0.032	0.032	

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	2/18/2014
Test Name	MANUAL_008
Test Start Time	11:03:22 AM
Test Start Date	10/17/2013
Test Length [D:H:M]	0:05:34
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.015
PM1 Minimum [mg/m3]	0.009
PM1 Maximum [mg/m3]	0.027
PM1 TWA [mg/m3]	0.01
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.009
PM2.5 Maximum [mg/m3]	0.027
PM2.5 TWA [mg/m3]	0.011
PM4 Average [mg/m3]	0.016
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	0.028
PM4 TWA [mg/m3]	0.011
PM10 Average [mg/m3]	0.016
PM10 Minimum [mg/m3]	0.01
PM10 Maximum [mg/m3]	0.03
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.016
TOTAL Minimum [mg/m3]	0.01
TOTAL Maximum [mg/m3]	0.03
TOTAL TWA [mg/m3]	0.011
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	334

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors
11:03:00 AM	0.023	0.023	0.023	0.024	0.024		
11:04:00 AM	0.023	0.023	0.023	0.023	0.023		
11:05:00 AM	0.022	0.022	0.022	0.023	0.023		
11:06:00 AM	0.023	0.024	0.024	0.024	0.024		
11:07:00 AM	0.024	0.025	0.025	0.026	0.026		
11:08:00 AM	0.023	0.024	0.024	0.025	0.025		
11:09:00 AM	0.026	0.027	0.028	0.03	0.03		
11:10:00 AM	0.022	0.023	0.023	0.024	0.024		
11:11:00 AM	0.023	0.023	0.024	0.024	0.025		
11:12:00 AM	0.021	0.022	0.022	0.022	0.022		
11:13:00 AM	0.023	0.023	0.024	0.024	0.024		
11:14:00 AM	0.027	0.027	0.028	0.028	0.028		
11:15:00 AM	0.026	0.027	0.027	0.027	0.027		
11:16:00 AM	0.026	0.027	0.027	0.028	0.028		
11:17:00 AM	0.022	0.023	0.023	0.023	0.023		
11:18:00 AM	0.022	0.022	0.022	0.022	0.022		
11:19:00 AM	0.022	0.022	0.022	0.022	0.022		
11:20:00 AM	0.024	0.025	0.025	0.025	0.025		
11:21:00 AM	0.022	0.022	0.022	0.023	0.023		
11:22:00 AM	0.021	0.021	0.022	0.022	0.022		
11:23:00 AM	0.021	0.021	0.021	0.021	0.021		
11:24:00 AM	0.021	0.021	0.021	0.021	0.021		
11:25:00 AM	0.02	0.02	0.02	0.021	0.021		
11:26:00 AM	0.02	0.021	0.021	0.021	0.021		
11:27:00 AM	0.02	0.02	0.02	0.02	0.02		
11:28:00 AM	0.022	0.022	0.022	0.022	0.022		
11:29:00 AM	0.022	0.022	0.022	0.022	0.022		

DOWNWIND

***Note- Saved data lost, field readings are posted below**

Firmware Version	3
Calibration Date	2/18/2014
Test Name	MANUAL_008
Test Start Time	11:03:22 AM
Test Start Date	10/17/2013
Test Length [D:H:M]	0:05:34
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.015
PM1 Minimum [mg/m3]	0.009
PM1 Maximum [mg/m3]	0.027
PM1 TWA [mg/m3]	0.01
PM2.5 Average [mg/m3]	0.015
PM2.5 Minimum [mg/m3]	0.009
PM2.5 Maximum [mg/m3]	0.027
PM2.5 TWA [mg/m3]	0.011
PM4 Average [mg/m3]	0.016
PM4 Minimum [mg/m3]	0.01
PM4 Maximum [mg/m3]	0.028
PM4 TWA [mg/m3]	0.011
PM10 Average [mg/m3]	0.016
PM10 Minimum [mg/m3]	0.01
PM10 Maximum [mg/m3]	0.03
PM10 TWA [mg/m3]	0.011
TOTAL Average [mg/m3]	0.016
TOTAL Minimum [mg/m3]	0.01
TOTAL Maximum [mg/m3]	0.03
TOTAL TWA [mg/m3]	0.011
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	334

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors	Difference
11:05:00 AM								
11:06:00 AM								
11:07:00 AM								
11:08:00 AM								
11:09:00 AM								
11:10:00 AM						0.025		0.001
11:11:00 AM								
11:12:00 AM								
11:13:00 AM								
11:14:00 AM								
11:15:00 AM								
11:16:00 AM								
11:17:00 AM								
11:18:00 AM								
11:19:00 AM								
11:20:00 AM								
11:21:00 AM								
11:22:00 AM								
11:23:00 AM								
11:24:00 AM								
11:25:00 AM						0.023		0.002
11:26:00 AM								
11:27:00 AM								
11:28:00 AM								
11:29:00 AM								

11:30:00 AM	0.021	0.022	0.022	0.022	0.022	11:30:00 AM		
11:31:00 AM	0.021	0.022	0.022	0.022	0.022	11:31:00 AM		
11:32:00 AM	0.02	0.021	0.021	0.021	0.021	11:32:00 AM		
11:33:00 AM	0.021	0.021	0.021	0.021	0.022	11:33:00 AM		
11:34:00 AM	0.02	0.02	0.02	0.02	0.02	11:34:00 AM		
11:35:00 AM	0.021	0.021	0.022	0.022	0.022	11:35:00 AM		
11:36:00 AM	0.022	0.022	0.023	0.023	0.023	11:36:00 AM		
11:37:00 AM	0.022	0.022	0.023	0.023	0.023	11:37:00 AM		
11:38:00 AM	0.022	0.023	0.023	0.023	0.023	11:38:00 AM		
11:39:00 AM	0.021	0.022	0.022	0.022	0.022	11:39:00 AM		
11:40:00 AM	0.022	0.022	0.022	0.023	0.023	11:40:00 AM	0.02	-0.003
11:41:00 AM	0.022	0.022	0.023	0.023	0.023	11:41:00 AM		
11:42:00 AM	0.023	0.024	0.024	0.024	0.024	11:42:00 AM		
11:43:00 AM	0.023	0.024	0.024	0.024	0.025	11:43:00 AM		
11:44:00 AM	0.022	0.022	0.023	0.023	0.023	11:44:00 AM		
11:45:00 AM	0.023	0.024	0.024	0.024	0.024	11:45:00 AM		
11:46:00 AM	0.023	0.023	0.024	0.024	0.024	11:46:00 AM		
11:47:00 AM	0.023	0.024	0.024	0.025	0.025	11:47:00 AM		
11:48:00 AM	0.021	0.021	0.022	0.022	0.023	11:48:00 AM		
11:49:00 AM	0.02	0.02	0.021	0.021	0.021	11:49:00 AM		
11:50:00 AM	0.02	0.021	0.021	0.021	0.022	11:50:00 AM		
11:51:00 AM	0.02	0.021	0.021	0.021	0.022	11:51:00 AM		
11:52:00 AM	0.021	0.021	0.021	0.022	0.022	11:52:00 AM		
11:53:00 AM	0.021	0.021	0.022	0.022	0.022	11:53:00 AM		
11:54:00 AM	0.022	0.022	0.022	0.023	0.023	11:54:00 AM		
11:55:00 AM	0.022	0.022	0.023	0.023	0.023	11:55:00 AM	0.021	-0.002
11:56:00 AM	0.021	0.022	0.022	0.022	0.022	11:56:00 AM		
11:57:00 AM	0.023	0.024	0.024	0.025	0.025	11:57:00 AM		
11:58:00 AM	0.024	0.024	0.024	0.025	0.026	11:58:00 AM		
11:59:00 AM	0.023	0.023	0.024	0.024	0.024	11:59:00 AM		
12:00:00 PM	0.024	0.024	0.025	0.025	0.025	12:00:00 PM		
12:01:00 PM	0.024	0.025	0.025	0.025	0.025	12:01:00 PM		
12:02:00 PM	0.024	0.025	0.025	0.025	0.025	12:02:00 PM		
12:03:00 PM	0.024	0.024	0.024	0.025	0.025	12:03:00 PM		
12:04:00 PM	0.023	0.024	0.024	0.024	0.024	12:04:00 PM		
12:05:00 PM	0.025	0.025	0.026	0.026	0.026	12:05:00 PM		
12:06:00 PM	0.023	0.024	0.024	0.024	0.024	12:06:00 PM		
12:07:00 PM	0.023	0.023	0.024	0.024	0.024	12:07:00 PM		
12:08:00 PM	0.023	0.024	0.024	0.025	0.025	12:08:00 PM		
12:09:00 PM	0.023	0.023	0.024	0.024	0.024	12:09:00 PM		
12:10:00 PM	0.022	0.023	0.023	0.023	0.023	12:10:00 PM	0.019	-0.004
12:11:00 PM	0.021	0.021	0.022	0.022	0.022	12:11:00 PM		
12:12:00 PM	0.021	0.021	0.022	0.022	0.022	12:12:00 PM		
12:13:00 PM	0.021	0.021	0.022	0.022	0.022	12:13:00 PM		
12:14:00 PM	0.024	0.025	0.026	0.028	0.028	12:14:00 PM		
12:15:00 PM	0.024	0.025	0.026	0.028	0.028	12:15:00 PM		
12:16:00 PM	0.021	0.021	0.022	0.022	0.022	12:16:00 PM		
12:17:00 PM	0.021	0.022	0.022	0.022	0.023	12:17:00 PM		
12:18:00 PM	0.023	0.024	0.024	0.025	0.025	12:18:00 PM		
12:19:00 PM	0.021	0.021	0.021	0.021	0.021	12:19:00 PM		
12:20:00 PM	0.019	0.02	0.02	0.02	0.02	12:20:00 PM		
12:21:00 PM	0.019	0.019	0.019	0.02	0.02	12:21:00 PM		
12:22:00 PM	0.019	0.019	0.019	0.019	0.019	12:22:00 PM		
12:23:00 PM	0.019	0.019	0.019	0.019	0.019	12:23:00 PM		
12:24:00 PM	0.019	0.019	0.019	0.019	0.019	12:24:00 PM		
12:25:00 PM	0.019	0.019	0.019	0.02	0.02	12:25:00 PM	0.021	0.001
12:26:00 PM	0.018	0.019	0.019	0.019	0.019	12:26:00 PM		
12:27:00 PM	0.018	0.018	0.018	0.018	0.019	12:27:00 PM		
12:28:00 PM	0.018	0.018	0.018	0.019	0.019	12:28:00 PM		
12:29:00 PM	0.018	0.018	0.019	0.019	0.019	12:29:00 PM		
12:30:00 PM	0.017	0.018	0.018	0.018	0.018	12:30:00 PM		
12:31:00 PM	0.017	0.017	0.017	0.017	0.017	12:31:00 PM		
12:32:00 PM	0.019	0.019	0.02	0.021	0.021	12:32:00 PM		
12:33:00 PM	0.017	0.018	0.018	0.019	0.02	12:33:00 PM		
12:34:00 PM	0.017	0.017	0.017	0.018	0.018	12:34:00 PM		
12:35:00 PM	0.016	0.016	0.016	0.017	0.017	12:35:00 PM		

12:36:00 PM	0.017	0.018	0.018	0.019	0.019	12:36:00 PM		
12:37:00 PM	0.02	0.02	0.021	0.022	0.022	12:37:00 PM		
12:38:00 PM	0.016	0.017	0.017	0.017	0.018	12:38:00 PM		
12:39:00 PM	0.015	0.015	0.015	0.015	0.015	12:39:00 PM		
12:40:00 PM	0.015	0.015	0.015	0.015	0.015	12:40:00 PM	0.02	0.005
12:41:00 PM	0.015	0.015	0.016	0.016	0.016	12:41:00 PM		
12:42:00 PM	0.015	0.016	0.016	0.016	0.016	12:42:00 PM		
12:43:00 PM	0.016	0.016	0.017	0.017	0.017	12:43:00 PM		
12:44:00 PM	0.02	0.021	0.021	0.021	0.021	12:44:00 PM		
12:45:00 PM	0.017	0.018	0.018	0.018	0.018	12:45:00 PM		
12:46:00 PM	0.015	0.015	0.016	0.016	0.016	12:46:00 PM		
12:47:00 PM	0.015	0.016	0.016	0.016	0.016	12:47:00 PM		
12:48:00 PM	0.016	0.017	0.017	0.018	0.018	12:48:00 PM		
12:49:00 PM	0.016	0.016	0.016	0.016	0.016	12:49:00 PM		
12:50:00 PM	0.016	0.016	0.016	0.017	0.017	12:50:00 PM		
12:51:00 PM	0.015	0.016	0.016	0.016	0.016	12:51:00 PM		
12:52:00 PM	0.015	0.015	0.015	0.016	0.016	12:52:00 PM		
12:53:00 PM	0.015	0.015	0.015	0.016	0.016	12:53:00 PM		
12:54:00 PM	0.015	0.015	0.015	0.015	0.015	12:54:00 PM		
12:55:00 PM	0.017	0.017	0.017	0.018	0.018	12:55:00 PM	0.023	0.005
12:56:00 PM	0.017	0.017	0.018	0.019	0.019	12:56:00 PM		
12:57:00 PM	0.015	0.016	0.016	0.016	0.016	12:57:00 PM		
12:58:00 PM	0.015	0.015	0.015	0.015	0.015	12:58:00 PM		
12:59:00 PM	0.014	0.015	0.015	0.015	0.015	12:59:00 PM		
1:00:00 PM	0.016	0.016	0.017	0.017	0.017	1:00:00 PM		
1:01:00 PM	0.015	0.015	0.016	0.016	0.016	1:01:00 PM		
1:02:00 PM	0.013	0.014	0.014	0.014	0.014	1:02:00 PM		
1:03:00 PM	0.014	0.015	0.015	0.016	0.016	1:03:00 PM		
1:04:00 PM	0.016	0.016	0.017	0.018	0.018	1:04:00 PM		
1:05:00 PM	0.014	0.014	0.014	0.014	0.014	1:05:00 PM		
1:06:00 PM	0.013	0.013	0.013	0.014	0.014	1:06:00 PM		
1:07:00 PM	0.014	0.014	0.014	0.014	0.014	1:07:00 PM		
1:08:00 PM	0.014	0.014	0.014	0.014	0.015	1:08:00 PM		
1:09:00 PM	0.013	0.013	0.013	0.013	0.013	1:09:00 PM		
1:10:00 PM	0.014	0.014	0.014	0.014	0.014	1:10:00 PM	0.021	0.007
1:11:00 PM	0.017	0.017	0.018	0.018	0.019	1:11:00 PM		
1:12:00 PM	0.015	0.015	0.015	0.016	0.016	1:12:00 PM		
1:13:00 PM	0.014	0.014	0.015	0.016	0.016	1:13:00 PM		
1:14:00 PM	0.02	0.021	0.023	0.026	0.026	1:14:00 PM		
1:15:00 PM	0.018	0.019	0.02	0.021	0.021	1:15:00 PM		
1:16:00 PM	0.016	0.017	0.017	0.018	0.018	1:16:00 PM		
1:17:00 PM	0.017	0.017	0.018	0.018	0.018	1:17:00 PM		
1:18:00 PM	0.016	0.016	0.016	0.017	0.017	1:18:00 PM		
1:19:00 PM	0.016	0.017	0.017	0.017	0.017	1:19:00 PM		
1:20:00 PM	0.015	0.015	0.015	0.016	0.016	1:20:00 PM		
1:21:00 PM	0.014	0.014	0.014	0.014	0.014	1:21:00 PM		
1:22:00 PM	0.015	0.016	0.016	0.016	0.016	1:22:00 PM		
1:23:00 PM	0.016	0.016	0.017	0.018	0.018	1:23:00 PM		
1:24:00 PM	0.015	0.015	0.015	0.016	0.016	1:24:00 PM		
1:25:00 PM	0.014	0.014	0.014	0.014	0.014	1:25:00 PM	0.016	0.002
1:26:00 PM	0.014	0.014	0.014	0.014	0.014	1:26:00 PM		
1:27:00 PM	0.015	0.015	0.015	0.016	0.016	1:27:00 PM		
1:28:00 PM	0.015	0.015	0.015	0.015	0.015	1:28:00 PM		
1:29:00 PM	0.015	0.016	0.016	0.016	0.016	1:29:00 PM		
1:30:00 PM	0.013	0.014	0.014	0.014	0.014	1:30:00 PM		
1:31:00 PM	0.013	0.014	0.014	0.014	0.014	1:31:00 PM		
1:32:00 PM	0.014	0.014	0.014	0.014	0.014	1:32:00 PM		
1:33:00 PM	0.014	0.014	0.014	0.015	0.015	1:33:00 PM		
1:34:00 PM	0.013	0.014	0.014	0.014	0.014	1:34:00 PM		
1:35:00 PM	0.014	0.014	0.014	0.015	0.015	1:35:00 PM		
1:36:00 PM	0.016	0.017	0.017	0.019	0.019	1:36:00 PM		
1:37:00 PM	0.014	0.015	0.015	0.015	0.015	1:37:00 PM		
1:38:00 PM	0.015	0.015	0.016	0.016	0.016	1:38:00 PM		
1:39:00 PM	0.016	0.017	0.017	0.019	0.019	1:39:00 PM		
1:40:00 PM	0.016	0.016	0.017	0.018	0.019	1:40:00 PM	0.018	-0.001
1:41:00 PM	0.015	0.016	0.016	0.017	0.017	1:41:00 PM		

1:42:00 PM	0.015	0.015	0.015	0.016	0.016	1:42:00 PM		
1:43:00 PM	0.013	0.013	0.013	0.013	0.013	1:43:00 PM		
1:44:00 PM	0.016	0.017	0.017	0.018	0.019	1:44:00 PM		
1:45:00 PM	0.017	0.018	0.019	0.02	0.02	1:45:00 PM		
1:46:00 PM	0.013	0.014	0.014	0.014	0.014	1:46:00 PM		
1:47:00 PM	0.013	0.013	0.013	0.013	0.013	1:47:00 PM		
1:48:00 PM	0.013	0.013	0.013	0.013	0.013	1:48:00 PM		
1:49:00 PM	0.013	0.013	0.013	0.014	0.014	1:49:00 PM		
1:50:00 PM	0.014	0.014	0.014	0.015	0.015	1:50:00 PM		
1:51:00 PM	0.012	0.012	0.012	0.012	0.012	1:51:00 PM		
1:52:00 PM	0.013	0.013	0.013	0.013	0.013	1:52:00 PM		
1:53:00 PM	0.014	0.014	0.014	0.015	0.015	1:53:00 PM		
1:54:00 PM	0.012	0.012	0.012	0.013	0.013	1:54:00 PM		
1:55:00 PM	0.012	0.012	0.012	0.012	0.012	1:55:00 PM	0.011	-0.001
1:56:00 PM	0.013	0.014	0.014	0.015	0.015	1:56:00 PM		
1:57:00 PM	0.014	0.014	0.014	0.015	0.016	1:57:00 PM		
1:58:00 PM	0.012	0.012	0.012	0.012	0.012	1:58:00 PM		
1:59:00 PM	0.011	0.011	0.012	0.012	0.012	1:59:00 PM		
2:00:00 PM	0.011	0.011	0.011	0.011	0.011	2:00:00 PM		
2:01:00 PM	0.011	0.011	0.011	0.011	0.011	2:01:00 PM		
2:02:00 PM	0.012	0.012	0.012	0.012	0.012	2:02:00 PM		
2:03:00 PM	0.011	0.012	0.012	0.012	0.012	2:03:00 PM		
2:04:00 PM	0.012	0.012	0.012	0.012	0.012	2:04:00 PM		
2:05:00 PM	0.013	0.013	0.014	0.014	0.014	2:05:00 PM		
2:06:00 PM	0.013	0.013	0.014	0.014	0.014	2:06:00 PM		
2:07:00 PM	0.013	0.014	0.015	0.015	0.015	2:07:00 PM		
2:08:00 PM	0.014	0.015	0.016	0.017	0.017	2:08:00 PM		
2:09:00 PM	0.012	0.012	0.012	0.012	0.012	2:09:00 PM		
2:10:00 PM	0.011	0.012	0.012	0.012	0.012	2:10:00 PM		
2:11:00 PM	0.015	0.015	0.016	0.017	0.017	2:11:00 PM		
2:12:00 PM	0.015	0.016	0.016	0.018	0.018	2:12:00 PM		
2:13:00 PM	0.013	0.013	0.014	0.015	0.015	2:13:00 PM		
2:14:00 PM	0.012	0.012	0.012	0.013	0.013	2:14:00 PM		
2:15:00 PM	0.012	0.012	0.012	0.012	0.012	2:15:00 PM		
2:16:00 PM	0.012	0.012	0.012	0.013	0.013	2:16:00 PM		
2:17:00 PM	0.013	0.013	0.013	0.014	0.014	2:17:00 PM		
2:18:00 PM	0.014	0.015	0.015	0.016	0.016	2:18:00 PM		
2:19:00 PM	0.014	0.014	0.015	0.016	0.016	2:19:00 PM		
2:20:00 PM	0.016	0.017	0.017	0.019	0.019	2:20:00 PM		
2:21:00 PM	0.013	0.013	0.013	0.014	0.015	2:21:00 PM		
2:22:00 PM	0.012	0.012	0.013	0.013	0.013	2:22:00 PM		
2:23:00 PM	0.012	0.012	0.012	0.012	0.012	2:23:00 PM		
2:24:00 PM	0.011	0.011	0.011	0.012	0.012	2:24:00 PM		
2:25:00 PM	0.011	0.011	0.011	0.012	0.012	2:25:00 PM		
2:26:00 PM	0.011	0.011	0.011	0.011	0.011	2:26:00 PM		
2:27:00 PM	0.011	0.011	0.011	0.011	0.011	2:27:00 PM		
2:28:00 PM	0.012	0.012	0.012	0.012	0.013	2:28:00 PM		
2:29:00 PM	0.011	0.012	0.012	0.012	0.012	2:29:00 PM		
2:30:00 PM	0.011	0.011	0.012	0.012	0.012	2:30:00 PM		
2:31:00 PM	0.011	0.012	0.012	0.012	0.012	2:31:00 PM		
2:32:00 PM	0.012	0.012	0.012	0.012	0.012	2:32:00 PM		
2:33:00 PM	0.012	0.013	0.013	0.013	0.013	2:33:00 PM		
2:34:00 PM	0.013	0.014	0.014	0.015	0.015	2:34:00 PM		
2:35:00 PM	0.013	0.013	0.013	0.014	0.014	2:35:00 PM		
2:36:00 PM	0.012	0.012	0.012	0.012	0.012	2:36:00 PM		
2:37:00 PM	0.011	0.011	0.011	0.011	0.011	2:37:00 PM		
2:38:00 PM	0.011	0.011	0.011	0.011	0.011	2:38:00 PM		
2:39:00 PM	0.011	0.011	0.011	0.012	0.012	2:39:00 PM		
2:40:00 PM	0.011	0.012	0.012	0.012	0.012	2:40:00 PM		
2:41:00 PM	0.011	0.012	0.012	0.012	0.012	2:41:00 PM		
2:42:00 PM	0.011	0.011	0.011	0.011	0.012	2:42:00 PM		
2:43:00 PM	0.011	0.011	0.012	0.012	0.012	2:43:00 PM		
2:44:00 PM	0.011	0.011	0.011	0.011	0.011	2:44:00 PM		
2:45:00 PM	0.011	0.011	0.011	0.012	0.012	2:45:00 PM	0.013	0.001
2:46:00 PM	0.011	0.011	0.011	0.011	0.011	2:46:00 PM		
2:47:00 PM	0.012	0.012	0.012	0.012	0.012	2:47:00 PM		

2:48:00 PM	0.012	0.012	0.012	0.013	0.013	2:48:00 PM		
2:49:00 PM	0.014	0.015	0.015	0.015	0.015	2:49:00 PM		
2:50:00 PM	0.012	0.013	0.013	0.013	0.013	2:50:00 PM		
2:51:00 PM	0.012	0.012	0.012	0.013	0.013	2:51:00 PM		
2:52:00 PM	0.012	0.012	0.012	0.012	0.012	2:52:00 PM		
2:53:00 PM	0.014	0.014	0.014	0.014	0.014	2:53:00 PM		
2:54:00 PM	0.012	0.012	0.012	0.012	0.012	2:54:00 PM		
2:55:00 PM	0.012	0.012	0.012	0.012	0.012	2:55:00 PM		
2:56:00 PM	0.011	0.011	0.011	0.012	0.012	2:56:00 PM		
2:57:00 PM	0.011	0.011	0.011	0.012	0.012	2:57:00 PM		
2:58:00 PM	0.011	0.012	0.012	0.012	0.012	2:58:00 PM		
2:59:00 PM	0.012	0.012	0.012	0.013	0.013	2:59:00 PM		
3:00:00 PM	0.012	0.012	0.012	0.012	0.012	3:00:00 PM	0.015	0.003
3:01:00 PM	0.012	0.013	0.013	0.013	0.013	3:01:00 PM		
3:02:00 PM	0.012	0.013	0.013	0.013	0.013	3:02:00 PM		
3:03:00 PM	0.012	0.013	0.013	0.013	0.013	3:03:00 PM		
3:04:00 PM	0.012	0.013	0.013	0.013	0.013	3:04:00 PM		
3:05:00 PM	0.012	0.013	0.013	0.013	0.013	3:05:00 PM		
3:06:00 PM	0.013	0.013	0.014	0.014	0.014	3:06:00 PM		
3:07:00 PM	0.012	0.013	0.013	0.013	0.013	3:07:00 PM		
3:08:00 PM	0.014	0.015	0.015	0.015	0.015	3:08:00 PM		
3:09:00 PM	0.014	0.015	0.015	0.015	0.015	3:09:00 PM		
3:10:00 PM	0.012	0.012	0.012	0.012	0.012	3:10:00 PM		
3:11:00 PM	0.011	0.011	0.011	0.012	0.012	3:11:00 PM		
3:12:00 PM	0.011	0.011	0.011	0.012	0.012	3:12:00 PM		
3:13:00 PM	0.011	0.011	0.011	0.011	0.011	3:13:00 PM		
3:14:00 PM	0.011	0.011	0.011	0.011	0.011	3:14:00 PM		
3:15:00 PM	0.01	0.01	0.01	0.01	0.01	3:15:00 PM	0.011	0.001
3:16:00 PM	0.012	0.012	0.012	0.012	0.012	3:16:00 PM		
3:17:00 PM	0.012	0.012	0.013	0.013	0.013	3:17:00 PM		
3:18:00 PM	0.011	0.011	0.012	0.012	0.012	3:18:00 PM		
3:19:00 PM	0.011	0.012	0.012	0.012	0.012	3:19:00 PM		
3:20:00 PM	0.011	0.012	0.012	0.012	0.012	3:20:00 PM		
3:21:00 PM	0.012	0.012	0.012	0.012	0.012	3:21:00 PM		
3:22:00 PM	0.011	0.011	0.011	0.011	0.011	3:22:00 PM		
3:23:00 PM	0.01	0.01	0.01	0.01	0.01	3:23:00 PM		
3:24:00 PM	0.011	0.012	0.012	0.012	0.012	3:24:00 PM		
3:25:00 PM	0.011	0.011	0.011	0.012	0.012	3:25:00 PM		
3:26:00 PM	0.011	0.012	0.012	0.012	0.012	3:26:00 PM		
3:27:00 PM	0.012	0.012	0.012	0.012	0.012	3:27:00 PM		
3:28:00 PM	0.012	0.012	0.012	0.012	0.012	3:28:00 PM		
3:29:00 PM	0.012	0.012	0.012	0.013	0.013	3:29:00 PM		
3:30:00 PM	0.011	0.011	0.011	0.011	0.011	3:30:00 PM	0.013	0.002
3:31:00 PM	0.011	0.012	0.012	0.012	0.012	3:31:00 PM		
3:32:00 PM	0.012	0.012	0.013	0.013	0.013	3:32:00 PM		
3:33:00 PM	0.012	0.012	0.012	0.013	0.013	3:33:00 PM		
3:34:00 PM	0.012	0.013	0.013	0.013	0.013	3:34:00 PM		
3:35:00 PM	0.012	0.012	0.012	0.012	0.012	3:35:00 PM		
3:36:00 PM	0.011	0.011	0.011	0.012	0.012	3:36:00 PM		
3:37:00 PM	0.011	0.011	0.011	0.012	0.012	3:37:00 PM		
3:38:00 PM	0.01	0.01	0.011	0.011	0.011	3:38:00 PM		
3:39:00 PM	0.01	0.01	0.01	0.01	0.01	3:39:00 PM		
3:40:00 PM	0.009	0.009	0.01	0.01	0.01	3:40:00 PM		
3:41:00 PM	0.011	0.011	0.011	0.011	0.011	3:41:00 PM		
3:42:00 PM	0.01	0.01	0.01	0.011	0.011	3:42:00 PM		
3:43:00 PM	0.01	0.01	0.01	0.01	0.01	3:43:00 PM		
3:44:00 PM	0.01	0.01	0.011	0.011	0.011	3:44:00 PM		
3:45:00 PM	0.011	0.011	0.011	0.011	0.011	3:45:00 PM	0.014	0.003
3:46:00 PM	0.01	0.01	0.01	0.011	0.011	3:46:00 PM		
3:47:00 PM	0.01	0.01	0.01	0.011	0.011	3:47:00 PM		
3:48:00 PM	0.01	0.01	0.01	0.011	0.011	3:48:00 PM		
3:49:00 PM	0.01	0.01	0.01	0.011	0.011	3:49:00 PM		
3:50:00 PM	0.011	0.011	0.011	0.011	0.011	3:50:00 PM		
3:51:00 PM	0.012	0.012	0.013	0.013	0.013	3:51:00 PM		
3:52:00 PM	0.013	0.013	0.013	0.013	0.013	3:52:00 PM		
3:53:00 PM	0.011	0.012	0.012	0.012	0.012	3:53:00 PM		

3:54:00 PM	0.011	0.012	0.012	0.012	0.012	3:54:00 PM		
3:55:00 PM	0.011	0.012	0.012	0.012	0.012	3:55:00 PM		
3:56:00 PM	0.01	0.01	0.01	0.01	0.01	3:56:00 PM		
3:57:00 PM	0.01	0.01	0.011	0.011	0.011	3:57:00 PM		
3:58:00 PM	0.01	0.011	0.011	0.011	0.011	3:58:00 PM		
3:59:00 PM	0.011	0.011	0.012	0.012	0.012	3:59:00 PM		
4:00:00 PM	0.013	0.013	0.013	0.013	0.013	4:00:00 PM	0.012	-0.001
4:01:00 PM	0.011	0.012	0.012	0.012	0.012	4:01:00 PM		
4:02:00 PM	0.012	0.012	0.012	0.012	0.013	4:02:00 PM		
4:03:00 PM	0.01	0.011	0.011	0.011	0.011	4:03:00 PM		
4:04:00 PM	0.01	0.01	0.01	0.01	0.01	4:04:00 PM		
4:05:00 PM	0.013	0.013	0.013	0.014	0.014	4:05:00 PM		
4:06:00 PM	0.012	0.012	0.013	0.013	0.013	4:06:00 PM		
4:07:00 PM	0.01	0.01	0.01	0.01	0.01	4:07:00 PM		
4:08:00 PM	0.01	0.01	0.01	0.011	0.011	4:08:00 PM		
4:09:00 PM	0.01	0.01	0.011	0.011	0.011	4:09:00 PM		
4:10:00 PM	0.01	0.011	0.011	0.011	0.011	4:10:00 PM		
4:11:00 PM	0.01	0.011	0.011	0.011	0.011	4:11:00 PM		
4:12:00 PM	0.011	0.011	0.011	0.011	0.011	4:12:00 PM		
4:13:00 PM	0.01	0.01	0.01	0.01	0.01	4:13:00 PM		
4:14:00 PM	0.01	0.01	0.01	0.01	0.01	4:14:00 PM		
4:15:00 PM	0.01	0.01	0.01	0.01	0.01	4:15:00 PM	0.015	0.005
4:16:00 PM	0.01	0.01	0.01	0.01	0.01	4:16:00 PM		
4:17:00 PM	0.01	0.01	0.01	0.01	0.01	4:17:00 PM		
4:18:00 PM	0.01	0.01	0.01	0.01	0.01	4:18:00 PM		
4:19:00 PM	0.01	0.01	0.01	0.01	0.01	4:19:00 PM		
4:20:00 PM	0.01	0.011	0.011	0.011	0.011	4:20:00 PM		
4:21:00 PM	0.011	0.011	0.011	0.011	0.011	4:21:00 PM		
4:22:00 PM	0.01	0.01	0.011	0.011	0.011	4:22:00 PM		
4:23:00 PM	0.01	0.011	0.011	0.011	0.011	4:23:00 PM		
4:24:00 PM	0.01	0.01	0.01	0.01	0.01	4:24:00 PM		
4:25:00 PM	0.01	0.011	0.011	0.011	0.011	4:25:00 PM		
4:26:00 PM	0.01	0.011	0.011	0.011	0.011	4:26:00 PM		
4:27:00 PM	0.011	0.012	0.013	0.013	0.014	4:27:00 PM		
4:28:00 PM	0.01	0.01	0.01	0.01	0.01	4:28:00 PM		
4:29:00 PM	0.01	0.011	0.011	0.011	0.011	4:29:00 PM		
4:30:00 PM	0.01	0.01	0.01	0.01	0.01	4:30:00 PM	0.014	0.004
4:31:00 PM	0.01	0.01	0.01	0.01	0.01			
4:32:00 PM	0.011	0.011	0.011	0.012	0.012			
4:33:00 PM	0.011	0.011	0.011	0.011	0.012			
4:34:00 PM	0.01	0.011	0.011	0.011	0.011			
4:35:00 PM	0.011	0.012	0.012	0.013	0.013			
4:36:00 PM	0.011	0.011	0.011	0.011	0.012			

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	2/18/2014
Test Name	MANUAL_009
Test Start Time	10:58:21 AM
Test Start Date	10/20/2013
Test Length [D:H:M]	0:05:21
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.013
PM1 Minimum [mg/m3]	0.008
PM1 Maximum [mg/m3]	0.054
PM1 TWA [mg/m3]	0.008
PM2.5 Average [mg/m3]	0.013
PM2.5 Minimum [mg/m3]	0.009
PM2.5 Maximum [mg/m3]	0.054
PM2.5 TWA [mg/m3]	0.009
PM4 Average [mg/m3]	0.013
PM4 Minimum [mg/m3]	0.009
PM4 Maximum [mg/m3]	0.055
PM4 TWA [mg/m3]	0.009
PM10 Average [mg/m3]	0.014
PM10 Minimum [mg/m3]	0.009
PM10 Maximum [mg/m3]	0.057
PM10 TWA [mg/m3]	0.009
TOTAL Average [mg/m3]	0.014
TOTAL Minimum [mg/m3]	0.009
TOTAL Maximum [mg/m3]	0.058
TOTAL TWA [mg/m3]	0.009
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	321

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors
10:58:00 AM	0.012	0.013	0.013	0.016	0.018		
10:59:00 AM	0.011	0.011	0.012	0.012	0.012		
11:00:00 AM	0.011	0.012	0.012	0.013	0.013		
11:01:00 AM	0.011	0.011	0.011	0.012	0.012		
11:02:00 AM	0.011	0.011	0.012	0.012	0.013		
11:03:00 AM	0.014	0.014	0.015	0.017	0.017		
11:04:00 AM	0.013	0.013	0.014	0.015	0.016		
11:05:00 AM	0.012	0.012	0.013	0.013	0.013		
11:06:00 AM	0.012	0.012	0.012	0.013	0.013		
11:07:00 AM	0.013	0.013	0.013	0.014	0.014		
11:08:00 AM	0.016	0.016	0.017	0.019	0.019		
11:09:00 AM	0.013	0.014	0.015	0.017	0.017		
11:10:00 AM	0.011	0.011	0.011	0.012	0.012		
11:11:00 AM	0.01	0.01	0.011	0.011	0.011		
11:12:00 AM	0.012	0.012	0.013	0.014	0.014		
11:13:00 AM	0.01	0.011	0.011	0.012	0.012		
11:14:00 AM	0.009	0.009	0.01	0.01	0.011		
11:15:00 AM	0.01	0.01	0.01	0.011	0.011		
11:16:00 AM	0.01	0.01	0.01	0.012	0.012		
11:17:00 AM	0.01	0.01	0.01	0.011	0.011		
11:18:00 AM	0.01	0.01	0.011	0.011	0.011		
11:19:00 AM	0.009	0.01	0.01	0.011	0.011		

DOWNWIND

***Note- Saved data lost, field readings are posted below**

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	2/18/2014
Test Name	MANUAL_009
Test Start Time	11:20:00 AM
Test Start Date	10/20/2013
Test Length [D:H:M]	0:05:21
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.013
PM1 Minimum [mg/m3]	0.008
PM1 Maximum [mg/m3]	0.054
PM1 TWA [mg/m3]	0.008
PM2.5 Average [mg/m3]	0.013
PM2.5 Minimum [mg/m3]	0.009
PM2.5 Maximum [mg/m3]	0.054
PM2.5 TWA [mg/m3]	0.009
PM4 Average [mg/m3]	0.013
PM4 Minimum [mg/m3]	0.009
PM4 Maximum [mg/m3]	0.055
PM4 TWA [mg/m3]	0.009
PM10 Average [mg/m3]	0.014
PM10 Minimum [mg/m3]	0.009
PM10 Maximum [mg/m3]	0.057
PM10 TWA [mg/m3]	0.009
TOTAL Average [mg/m3]	0.014
TOTAL Minimum [mg/m3]	0.009
TOTAL Maximum [mg/m3]	0.058
TOTAL TWA [mg/m3]	0.009
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	321

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors	Difference
						0.01		-0.001

11:20:00 AM	0.009	0.01	0.01	0.011	0.011	11:20:00 AM		
11:21:00 AM	0.009	0.009	0.009	0.009	0.009	11:21:00 AM		
11:22:00 AM	0.01	0.01	0.011	0.011	0.012	11:22:00 AM		
11:23:00 AM	0.01	0.01	0.011	0.012	0.012	11:23:00 AM		
11:24:00 AM	0.009	0.009	0.01	0.01	0.01	11:24:00 AM		
11:25:00 AM	0.01	0.01	0.011	0.011	0.011	11:25:00 AM		
11:26:00 AM	0.009	0.01	0.01	0.011	0.011	11:26:00 AM		
11:27:00 AM	0.01	0.01	0.01	0.011	0.011	11:27:00 AM		
11:28:00 AM	0.009	0.009	0.009	0.01	0.01	11:28:00 AM		
11:29:00 AM	0.009	0.01	0.01	0.01	0.011	11:29:00 AM		
11:30:00 AM	0.008	0.009	0.009	0.009	0.009	11:30:00 AM		
11:31:00 AM	0.01	0.01	0.01	0.011	0.011	11:31:00 AM		
11:32:00 AM	0.01	0.01	0.011	0.011	0.011	11:32:00 AM		
11:33:00 AM	0.01	0.011	0.011	0.012	0.012	11:33:00 AM	0.045	0.033
11:34:00 AM	0.01	0.011	0.011	0.011	0.011	11:34:00 AM		
11:35:00 AM	0.01	0.011	0.011	0.012	0.012	11:35:00 AM		
11:36:00 AM	0.01	0.011	0.011	0.012	0.012	11:36:00 AM		
11:37:00 AM	0.009	0.009	0.009	0.01	0.01	11:37:00 AM		
11:38:00 AM	0.01	0.01	0.01	0.011	0.011	11:38:00 AM		
11:39:00 AM	0.01	0.01	0.01	0.011	0.011	11:39:00 AM		
11:40:00 AM	0.011	0.012	0.012	0.013	0.013	11:40:00 AM		
11:41:00 AM	0.011	0.011	0.012	0.012	0.012	11:41:00 AM		
11:42:00 AM	0.01	0.01	0.011	0.011	0.011	11:42:00 AM		
11:43:00 AM	0.009	0.01	0.01	0.01	0.01	11:43:00 AM		
11:44:00 AM	0.009	0.01	0.01	0.01	0.01	11:44:00 AM		
11:45:00 AM	0.009	0.01	0.01	0.01	0.01	11:45:00 AM		
11:46:00 AM	0.009	0.009	0.009	0.01	0.01	11:46:00 AM		
11:47:00 AM	0.009	0.009	0.009	0.009	0.009	11:47:00 AM		
11:48:00 AM	0.009	0.009	0.009	0.009	0.009	11:48:00 AM	0.029	0.018
11:49:00 AM	0.01	0.011	0.011	0.012	0.012	11:49:00 AM		
11:50:00 AM	0.01	0.01	0.01	0.01	0.011	11:50:00 AM		
11:51:00 AM	0.009	0.009	0.01	0.01	0.01	11:51:00 AM		
11:52:00 AM	0.009	0.009	0.01	0.01	0.01	11:52:00 AM		
11:53:00 AM	0.009	0.009	0.009	0.01	0.011	11:53:00 AM		
11:54:00 AM	0.009	0.009	0.009	0.009	0.009	11:54:00 AM		
11:55:00 AM	0.01	0.01	0.01	0.01	0.01	11:55:00 AM		
11:56:00 AM	0.01	0.01	0.011	0.011	0.011	11:56:00 AM		
11:57:00 AM	0.01	0.01	0.011	0.011	0.011	11:57:00 AM		
11:58:00 AM	0.009	0.01	0.01	0.01	0.01	11:58:00 AM		
11:59:00 AM	0.009	0.01	0.01	0.01	0.01	11:59:00 AM		
12:00:00 PM	0.009	0.01	0.01	0.011	0.011	12:00:00 PM		
12:01:00 PM	0.009	0.01	0.01	0.01	0.01	12:01:00 PM		
12:02:00 PM	0.009	0.009	0.009	0.01	0.01	12:02:00 PM		
12:03:00 PM	0.01	0.01	0.011	0.012	0.012	12:03:00 PM	0.025	0.013
12:04:00 PM	0.01	0.011	0.011	0.012	0.012	12:04:00 PM		
12:05:00 PM	0.01	0.011	0.011	0.012	0.012	12:05:00 PM		
12:06:00 PM	0.011	0.012	0.012	0.013	0.014	12:06:00 PM		
12:07:00 PM	0.011	0.012	0.012	0.013	0.013	12:07:00 PM		
12:08:00 PM	0.01	0.011	0.011	0.011	0.012	12:08:00 PM		
12:09:00 PM	0.01	0.01	0.01	0.01	0.01	12:09:00 PM		
12:10:00 PM	0.01	0.011	0.011	0.012	0.012	12:10:00 PM		
12:11:00 PM	0.011	0.011	0.012	0.012	0.012	12:11:00 PM		
12:12:00 PM	0.01	0.01	0.01	0.01	0.01	12:12:00 PM		
12:13:00 PM	0.009	0.01	0.01	0.01	0.01	12:13:00 PM		
12:14:00 PM	0.011	0.011	0.011	0.012	0.012	12:14:00 PM		
12:15:00 PM	0.011	0.012	0.012	0.013	0.013	12:15:00 PM		
12:16:00 PM	0.012	0.012	0.012	0.013	0.013	12:16:00 PM		
12:17:00 PM	0.011	0.011	0.011	0.012	0.012	12:17:00 PM		
12:18:00 PM	0.01	0.01	0.011	0.011	0.011	12:18:00 PM	0.021	0.006
12:19:00 PM	0.012	0.012	0.012	0.013	0.013	12:19:00 PM		
12:20:00 PM	0.013	0.014	0.014	0.015	0.015	12:20:00 PM		
12:21:00 PM	0.013	0.014	0.014	0.014	0.015	12:21:00 PM		

12:22:00 PM	0.012	0.012	0.013	0.013	0.013	12:22:00 PM		
12:23:00 PM	0.011	0.012	0.012	0.013	0.013	12:23:00 PM		
12:24:00 PM	0.01	0.011	0.011	0.011	0.011	12:24:00 PM		
12:25:00 PM	0.012	0.013	0.013	0.013	0.014	12:25:00 PM		
12:26:00 PM	0.011	0.012	0.012	0.012	0.013	12:26:00 PM		
12:27:00 PM	0.011	0.012	0.012	0.013	0.013	12:27:00 PM		
12:28:00 PM	0.011	0.011	0.011	0.012	0.013	12:28:00 PM		
12:29:00 PM	0.012	0.012	0.012	0.013	0.013	12:29:00 PM		
12:30:00 PM	0.013	0.014	0.014	0.015	0.015	12:30:00 PM		
12:31:00 PM	0.012	0.012	0.012	0.013	0.013	12:31:00 PM		
12:32:00 PM	0.01	0.011	0.011	0.011	0.011	12:32:00 PM		
12:33:00 PM	0.011	0.012	0.012	0.012	0.013	12:33:00 PM		
12:34:00 PM	0.012	0.012	0.013	0.013	0.013	12:34:00 PM		
12:35:00 PM	0.013	0.013	0.013	0.014	0.014	12:35:00 PM		
12:36:00 PM	0.013	0.013	0.013	0.014	0.014	12:36:00 PM		
12:37:00 PM	0.012	0.012	0.013	0.013	0.013	12:37:00 PM		
12:38:00 PM	0.011	0.011	0.011	0.012	0.012	12:38:00 PM		
12:39:00 PM	0.012	0.012	0.012	0.013	0.013	12:39:00 PM		
12:40:00 PM	0.012	0.013	0.013	0.015	0.016	12:40:00 PM		
12:41:00 PM	0.012	0.012	0.013	0.014	0.014	12:41:00 PM		
12:42:00 PM	0.011	0.011	0.012	0.013	0.013	12:42:00 PM		
12:43:00 PM	0.011	0.011	0.011	0.011	0.011	12:43:00 PM		
12:44:00 PM	0.012	0.012	0.013	0.014	0.015	12:44:00 PM		
12:45:00 PM	0.011	0.011	0.011	0.012	0.012	12:45:00 PM		
12:46:00 PM	0.01	0.01	0.011	0.011	0.011	12:46:00 PM		
12:47:00 PM	0.01	0.01	0.011	0.011	0.011	12:47:00 PM		
12:48:00 PM	0.011	0.012	0.012	0.013	0.013	12:48:00 PM	0.011	0
12:49:00 PM	0.01	0.01	0.01	0.01	0.01	12:49:00 PM		
12:50:00 PM	0.01	0.011	0.011	0.011	0.011	12:50:00 PM		
12:51:00 PM	0.01	0.011	0.011	0.011	0.011	12:51:00 PM		
12:52:00 PM	0.01	0.011	0.011	0.011	0.011	12:52:00 PM		
12:53:00 PM	0.01	0.011	0.011	0.011	0.011	12:53:00 PM		
12:54:00 PM	0.011	0.012	0.012	0.012	0.012	12:54:00 PM		
12:55:00 PM	0.013	0.013	0.013	0.013	0.013	12:55:00 PM		
12:56:00 PM	0.012	0.013	0.013	0.013	0.013	12:56:00 PM		
12:57:00 PM	0.012	0.013	0.013	0.014	0.014	12:57:00 PM		
12:58:00 PM	0.013	0.013	0.013	0.014	0.015	12:58:00 PM		
12:59:00 PM	0.013	0.014	0.014	0.015	0.015	12:59:00 PM		
1:00:00 PM	0.011	0.012	0.012	0.012	0.012	1:00:00 PM		
1:01:00 PM	0.015	0.016	0.016	0.017	0.017	1:01:00 PM		
1:02:00 PM	0.012	0.012	0.012	0.013	0.014	1:02:00 PM		
1:03:00 PM	0.011	0.011	0.011	0.011	0.011	1:03:00 PM	0.013	0.001
1:04:00 PM	0.011	0.011	0.011	0.011	0.011	1:04:00 PM		
1:05:00 PM	0.011	0.011	0.011	0.012	0.012	1:05:00 PM		
1:06:00 PM	0.012	0.013	0.013	0.014	0.014	1:06:00 PM		
1:07:00 PM	0.011	0.011	0.011	0.012	0.012	1:07:00 PM		
1:08:00 PM	0.011	0.012	0.012	0.012	0.013	1:08:00 PM		
1:09:00 PM	0.012	0.012	0.012	0.014	0.014	1:09:00 PM		
1:10:00 PM	0.013	0.014	0.015	0.016	0.016	1:10:00 PM		
1:11:00 PM	0.013	0.013	0.014	0.014	0.014	1:11:00 PM		
1:12:00 PM	0.013	0.013	0.013	0.014	0.014	1:12:00 PM		
1:13:00 PM	0.011	0.012	0.012	0.012	0.012	1:13:00 PM		
1:14:00 PM	0.012	0.012	0.012	0.013	0.013	1:14:00 PM		
1:15:00 PM	0.013	0.013	0.013	0.014	0.014	1:15:00 PM		
1:16:00 PM	0.012	0.012	0.012	0.013	0.013	1:16:00 PM		
1:17:00 PM	0.011	0.012	0.012	0.012	0.012	1:17:00 PM		
1:18:00 PM	0.012	0.013	0.013	0.013	0.013	1:18:00 PM	0.015	0.002
1:19:00 PM	0.013	0.013	0.014	0.014	0.014	1:19:00 PM		
1:20:00 PM	0.012	0.012	0.012	0.013	0.013	1:20:00 PM		
1:21:00 PM	0.013	0.013	0.013	0.014	0.014	1:21:00 PM		
1:22:00 PM	0.013	0.014	0.014	0.014	0.014	1:22:00 PM		
1:23:00 PM	0.012	0.012	0.012	0.013	0.013	1:23:00 PM		

1:24:00 PM	0.011	0.011	0.011	0.011	0.011	1:24:00 PM		
1:25:00 PM	0.011	0.011	0.011	0.011	0.011	1:25:00 PM		
1:26:00 PM	0.011	0.011	0.011	0.011	0.011	1:26:00 PM		
1:27:00 PM	0.011	0.011	0.011	0.011	0.012	1:27:00 PM		
1:28:00 PM	0.011	0.011	0.012	0.012	0.012	1:28:00 PM		
1:29:00 PM	0.011	0.012	0.012	0.013	0.013	1:29:00 PM		
1:30:00 PM	0.012	0.012	0.012	0.013	0.014	1:30:00 PM		
1:31:00 PM	0.01	0.01	0.011	0.011	0.011	1:31:00 PM		
1:32:00 PM	0.011	0.011	0.011	0.012	0.012	1:32:00 PM		
1:33:00 PM	0.01	0.011	0.011	0.011	0.011	1:33:00 PM	0.014	0.001
1:34:00 PM	0.011	0.011	0.011	0.011	0.011	1:34:00 PM		
1:35:00 PM	0.011	0.012	0.012	0.013	0.013	1:35:00 PM		
1:36:00 PM	0.013	0.013	0.014	0.015	0.015	1:36:00 PM		
1:37:00 PM	0.012	0.012	0.013	0.014	0.014	1:37:00 PM		
1:38:00 PM	0.011	0.011	0.011	0.011	0.011	1:38:00 PM		
1:39:00 PM	0.011	0.011	0.012	0.012	0.012	1:39:00 PM		
1:40:00 PM	0.011	0.012	0.012	0.013	0.013	1:40:00 PM		
1:41:00 PM	0.012	0.012	0.012	0.012	0.013	1:41:00 PM		
1:42:00 PM	0.011	0.011	0.011	0.012	0.012	1:42:00 PM		
1:43:00 PM	0.012	0.012	0.012	0.013	0.013	1:43:00 PM		
1:44:00 PM	0.013	0.013	0.014	0.014	0.014	1:44:00 PM		
1:45:00 PM	0.013	0.013	0.013	0.014	0.014	1:45:00 PM		
1:46:00 PM	0.013	0.014	0.014	0.015	0.015	1:46:00 PM		
1:47:00 PM	0.015	0.016	0.016	0.016	0.016	1:47:00 PM		
1:48:00 PM	0.013	0.013	0.014	0.014	0.015	1:48:00 PM	0.012	-0.002
1:49:00 PM	0.014	0.014	0.015	0.015	0.015	1:49:00 PM		
1:50:00 PM	0.012	0.013	0.013	0.014	0.014	1:50:00 PM		
1:51:00 PM	0.012	0.012	0.012	0.013	0.013	1:51:00 PM		
1:52:00 PM	0.012	0.012	0.012	0.013	0.013	1:52:00 PM		
1:53:00 PM	0.012	0.012	0.013	0.013	0.014	1:53:00 PM		
1:54:00 PM	0.012	0.012	0.012	0.013	0.013	1:54:00 PM		
1:55:00 PM	0.011	0.011	0.011	0.012	0.012	1:55:00 PM		
1:56:00 PM	0.011	0.012	0.012	0.012	0.013	1:56:00 PM		
1:57:00 PM	0.016	0.017	0.017	0.018	0.018	1:57:00 PM		
1:58:00 PM	0.013	0.013	0.014	0.014	0.015	1:58:00 PM		
1:59:00 PM	0.012	0.013	0.013	0.013	0.013	1:59:00 PM		
2:00:00 PM	0.012	0.012	0.013	0.013	0.013	2:00:00 PM		
2:01:00 PM	0.015	0.016	0.016	0.017	0.017	2:01:00 PM		
2:02:00 PM	0.012	0.012	0.013	0.013	0.013	2:02:00 PM		
2:03:00 PM	0.011	0.011	0.011	0.012	0.012	2:03:00 PM	0.014	0
2:04:00 PM	0.013	0.013	0.013	0.014	0.014	2:04:00 PM		
2:05:00 PM	0.012	0.013	0.013	0.014	0.014	2:05:00 PM		
2:06:00 PM	0.012	0.012	0.012	0.012	0.013	2:06:00 PM		
2:07:00 PM	0.011	0.012	0.012	0.012	0.012	2:07:00 PM		
2:08:00 PM	0.011	0.012	0.012	0.012	0.013	2:08:00 PM		
2:09:00 PM	0.012	0.013	0.013	0.014	0.015	2:09:00 PM		
2:10:00 PM	0.012	0.012	0.012	0.013	0.013	2:10:00 PM		
2:11:00 PM	0.012	0.012	0.012	0.013	0.013	2:11:00 PM		
2:12:00 PM	0.012	0.012	0.012	0.013	0.013	2:12:00 PM		
2:13:00 PM	0.017	0.018	0.019	0.021	0.021	2:13:00 PM		
2:14:00 PM	0.014	0.015	0.015	0.015	0.015	2:14:00 PM		
2:15:00 PM	0.011	0.012	0.012	0.013	0.013	2:15:00 PM		
2:16:00 PM	0.012	0.012	0.012	0.013	0.013	2:16:00 PM		
2:17:00 PM	0.011	0.011	0.012	0.012	0.012	2:17:00 PM		
2:18:00 PM	0.012	0.012	0.012	0.013	0.013	2:18:00 PM	0.013	0.001
2:19:00 PM	0.011	0.011	0.011	0.012	0.012	2:19:00 PM		
2:20:00 PM	0.011	0.011	0.011	0.012	0.012	2:20:00 PM		
2:21:00 PM	0.011	0.011	0.011	0.012	0.012	2:21:00 PM		
2:22:00 PM	0.011	0.011	0.011	0.012	0.012	2:22:00 PM		
2:23:00 PM	0.012	0.012	0.012	0.012	0.012	2:23:00 PM		
2:24:00 PM	0.011	0.011	0.012	0.012	0.012	2:24:00 PM		
2:25:00 PM	0.011	0.011	0.011	0.012	0.012	2:25:00 PM		

2:26:00 PM	0.01	0.011	0.011	0.011	0.011	2:26:00 PM		
2:27:00 PM	0.011	0.011	0.011	0.011	0.011	2:27:00 PM		
2:28:00 PM	0.011	0.011	0.011	0.011	0.011	2:28:00 PM		
2:29:00 PM	0.011	0.011	0.011	0.012	0.012	2:29:00 PM		
2:30:00 PM	0.011	0.011	0.011	0.012	0.012	2:30:00 PM		
2:31:00 PM	0.012	0.013	0.013	0.014	0.014	2:31:00 PM		
2:32:00 PM	0.012	0.013	0.013	0.013	0.013	2:32:00 PM		
2:33:00 PM	0.012	0.012	0.012	0.013	0.013	2:33:00 PM	0.016	0.004
2:34:00 PM	0.011	0.011	0.012	0.012	0.012	2:34:00 PM		
2:35:00 PM	0.011	0.011	0.011	0.012	0.012	2:35:00 PM		
2:36:00 PM	0.013	0.013	0.014	0.014	0.015	2:36:00 PM		
2:37:00 PM	0.011	0.011	0.012	0.012	0.012	2:37:00 PM		
2:38:00 PM	0.011	0.011	0.012	0.012	0.012	2:38:00 PM		
2:39:00 PM	0.012	0.012	0.012	0.013	0.013	2:39:00 PM		
2:40:00 PM	0.011	0.012	0.012	0.012	0.012	2:40:00 PM		
2:41:00 PM	0.011	0.011	0.011	0.011	0.011	2:41:00 PM		
2:42:00 PM	0.012	0.012	0.012	0.012	0.012	2:42:00 PM		
2:43:00 PM	0.012	0.013	0.013	0.013	0.014	2:43:00 PM		
2:44:00 PM	0.012	0.012	0.012	0.013	0.013	2:44:00 PM		
2:45:00 PM	0.012	0.012	0.012	0.012	0.012	2:45:00 PM		
2:46:00 PM	0.012	0.012	0.012	0.013	0.013	2:46:00 PM		
2:47:00 PM	0.011	0.012	0.012	0.012	0.013	2:47:00 PM		
2:48:00 PM	0.013	0.013	0.013	0.014	0.014	2:48:00 PM	0.015	0.003
2:49:00 PM	0.013	0.013	0.013	0.015	0.015	2:49:00 PM		
2:50:00 PM	0.011	0.011	0.011	0.012	0.012	2:50:00 PM		
2:51:00 PM	0.012	0.013	0.013	0.014	0.014	2:51:00 PM		
2:52:00 PM	0.011	0.011	0.011	0.011	0.011	2:52:00 PM		
2:53:00 PM	0.011	0.011	0.011	0.012	0.012	2:53:00 PM		
2:54:00 PM	0.011	0.011	0.011	0.011	0.011	2:54:00 PM		
2:55:00 PM	0.01	0.01	0.011	0.011	0.011	2:55:00 PM		
2:56:00 PM	0.01	0.01	0.011	0.011	0.011	2:56:00 PM		
2:57:00 PM	0.01	0.011	0.011	0.011	0.011	2:57:00 PM		
2:58:00 PM	0.01	0.011	0.011	0.011	0.011	2:58:00 PM		
2:59:00 PM	0.011	0.011	0.011	0.011	0.011	2:59:00 PM		
3:00:00 PM	0.011	0.011	0.012	0.012	0.013	3:00:00 PM		
3:01:00 PM	0.012	0.012	0.013	0.014	0.015	3:01:00 PM		
3:02:00 PM	0.014	0.014	0.014	0.015	0.015	3:02:00 PM		
3:03:00 PM	0.013	0.013	0.013	0.014	0.014	3:03:00 PM	0.015	0.002
3:04:00 PM	0.011	0.011	0.011	0.012	0.012	3:04:00 PM		
3:05:00 PM	0.011	0.011	0.012	0.013	0.013	3:05:00 PM		
3:06:00 PM	0.011	0.012	0.012	0.012	0.012	3:06:00 PM		
3:07:00 PM	0.011	0.011	0.012	0.012	0.012	3:07:00 PM		
3:08:00 PM	0.011	0.011	0.011	0.012	0.012	3:08:00 PM		
3:09:00 PM	0.011	0.011	0.011	0.011	0.012	3:09:00 PM		
3:10:00 PM	0.01	0.011	0.011	0.011	0.011	3:10:00 PM		
3:11:00 PM	0.011	0.011	0.011	0.012	0.012	3:11:00 PM		
3:12:00 PM	0.011	0.011	0.011	0.012	0.012	3:12:00 PM		
3:13:00 PM	0.011	0.011	0.011	0.011	0.011	3:13:00 PM		
3:14:00 PM	0.011	0.011	0.012	0.012	0.012	3:14:00 PM		
3:15:00 PM	0.012	0.012	0.012	0.012	0.013	3:15:00 PM		
3:16:00 PM	0.013	0.013	0.013	0.014	0.015	3:16:00 PM		
3:17:00 PM	0.012	0.013	0.013	0.013	0.013	3:17:00 PM		
3:18:00 PM	0.014	0.015	0.015	0.017	0.017	3:18:00 PM	0.015	-0.017
3:19:00 PM	0.054	0.054	0.055	0.057	0.058	3:19:00 PM		
3:20:00 PM	0.028	0.029	0.03	0.032	0.032	3:20:00 PM		
3:21:00 PM	0.05	0.052	0.052	0.054	0.054	3:21:00 PM		
3:22:00 PM	0.013	0.013	0.014	0.014	0.014	3:22:00 PM		
3:23:00 PM	0.013	0.014	0.014	0.015	0.016	3:23:00 PM		
3:24:00 PM	0.013	0.013	0.013	0.014	0.015	3:24:00 PM		
3:25:00 PM	0.013	0.014	0.014	0.015	0.015	3:25:00 PM		
3:26:00 PM	0.014	0.015	0.015	0.016	0.016	3:26:00 PM		
3:27:00 PM	0.013	0.013	0.013	0.013	0.013	3:27:00 PM		

3:28:00 PM	0.013	0.014	0.014	0.015	0.016	3:28:00 PM		
3:29:00 PM	0.012	0.012	0.013	0.013	0.014	3:29:00 PM		
3:30:00 PM	0.013	0.013	0.013	0.014	0.014	3:30:00 PM		
3:31:00 PM	0.02	0.021	0.021	0.023	0.023	3:31:00 PM		
3:32:00 PM	0.032	0.032	0.033	0.033	0.034	3:32:00 PM		
3:33:00 PM	0.025	0.025	0.026	0.027	0.027	3:33:00 PM	0.02	-0.004
3:34:00 PM	0.015	0.015	0.015	0.016	0.016	3:34:00 PM		
3:35:00 PM	0.022	0.023	0.023	0.024	0.024	3:35:00 PM		
3:36:00 PM	0.011	0.011	0.012	0.012	0.012	3:36:00 PM		
3:37:00 PM	0.011	0.011	0.012	0.012	0.012	3:37:00 PM		
3:38:00 PM	0.012	0.012	0.012	0.013	0.013	3:38:00 PM		
3:39:00 PM	0.012	0.012	0.013	0.013	0.013	3:39:00 PM		
3:40:00 PM	0.012	0.012	0.012	0.013	0.013	3:40:00 PM		
3:41:00 PM	0.013	0.013	0.013	0.013	0.014	3:41:00 PM		
3:42:00 PM	0.013	0.013	0.013	0.014	0.015	3:42:00 PM		
3:43:00 PM	0.012	0.013	0.013	0.014	0.014	3:43:00 PM		
3:44:00 PM	0.014	0.014	0.015	0.015	0.016	3:44:00 PM		
3:45:00 PM	0.011	0.011	0.012	0.012	0.012	3:45:00 PM		
3:46:00 PM	0.011	0.011	0.012	0.012	0.012	3:46:00 PM		
3:47:00 PM	0.017	0.018	0.018	0.018	0.018	3:47:00 PM		
3:48:00 PM	0.013	0.013	0.014	0.014	0.014	3:48:00 PM	0.017	-0.039
3:49:00 PM	0.031	0.031	0.032	0.032	0.033	3:49:00 PM		
3:50:00 PM	0.052	0.053	0.054	0.055	0.056	3:50:00 PM		
3:51:00 PM	0.015	0.015	0.016	0.016	0.016	3:51:00 PM		
3:52:00 PM	0.027	0.027	0.028	0.028	0.028	3:52:00 PM		
3:53:00 PM	0.014	0.015	0.015	0.016	0.017	3:53:00 PM		
3:54:00 PM	0.014	0.014	0.015	0.016	0.016	3:54:00 PM		
3:55:00 PM	0.012	0.012	0.012	0.013	0.013	3:55:00 PM		
3:56:00 PM	0.012	0.012	0.013	0.013	0.013	3:56:00 PM		
3:57:00 PM	0.015	0.016	0.017	0.021	0.021	3:57:00 PM		
3:58:00 PM	0.018	0.019	0.019	0.021	0.021	3:58:00 PM		
3:59:00 PM	0.03	0.031	0.032	0.036	0.038	3:59:00 PM		
4:00:00 PM	0.024	0.025	0.025	0.026	0.026	4:00:00 PM		
4:01:00 PM	0.034	0.036	0.038	0.043	0.043	4:01:00 PM		
4:02:00 PM	0.012	0.012	0.013	0.013	0.013	4:02:00 PM		
4:03:00 PM	0.014	0.015	0.016	0.019	0.02	4:03:00 PM	0.019	0.004
4:04:00 PM	0.011	0.012	0.012	0.013	0.013	4:04:00 PM		
4:05:00 PM	0.012	0.013	0.013	0.015	0.015	4:05:00 PM		
4:06:00 PM	0.022	0.022	0.023	0.024	0.024	4:06:00 PM		
4:07:00 PM	0.02	0.021	0.021	0.023	0.023	4:07:00 PM		
4:08:00 PM	0.013	0.013	0.013	0.014	0.014	4:08:00 PM		
4:09:00 PM	0.016	0.017	0.017	0.018	0.018	4:09:00 PM		
4:10:00 PM	0.038	0.04	0.04	0.044	0.044	4:10:00 PM		
4:11:00 PM	0.014	0.015	0.015	0.016	0.016	4:11:00 PM		
4:12:00 PM	0.011	0.012	0.012	0.012	0.013	4:12:00 PM		
4:13:00 PM	0.012	0.012	0.012	0.013	0.013	4:13:00 PM		
4:14:00 PM	0.012	0.013	0.013	0.014	0.014	4:14:00 PM		
4:15:00 PM	0.012	0.012	0.012	0.013	0.013	4:15:00 PM		
4:16:00 PM	0.013	0.013	0.014	0.014	0.015	4:16:00 PM		
4:17:00 PM	0.014	0.015	0.015	0.017	0.017	4:17:00 PM		
4:18:00 PM	0.014	0.014	0.014	0.015	0.015	4:18:00 PM	0.014	0.014
						4:19:00 PM		
						4:20:00 PM		

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132701
Firmware Version	3
Calibration Date	8/15/2014
Test Name	MANUAL_001
Test Start Time	11:04:29 AM
Test Start Date	10/21/2014
Test Length [D:H:M]	0:02:18
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.011
PM1 Minimum [mg/m3]	0.008
PM1 Maximum [mg/m3]	0.026
PM1 TWA [mg/m3]	0.003
PM2.5 Average [mg/m3]	0.011
PM2.5 Minimum [mg/m3]	0.008
PM2.5 Maximum [mg/m3]	0.026
PM2.5 TWA [mg/m3]	0.003
PM4 Average [mg/m3]	0.012
PM4 Minimum [mg/m3]	0.008
PM4 Maximum [mg/m3]	0.027
PM4 TWA [mg/m3]	0.003
PM10 Average [mg/m3]	0.013
PM10 Minimum [mg/m3]	0.009
PM10 Maximum [mg/m3]	0.027
PM10 TWA [mg/m3]	0.004
TOTAL Average [mg/m3]	0.013
TOTAL Minimum [mg/m3]	0.009
TOTAL Maximum [mg/m3]	0.027
TOTAL TWA [mg/m3]	0.004
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	138

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors
11:04:00 AM	0.016	0.016	0.017	0.023	0.024		
11:05:00 AM	0.011	0.011	0.012	0.012	0.013		
11:06:00 AM	0.012	0.013	0.013	0.014	0.014		
11:07:00 AM	0.021	0.022	0.022	0.024	0.024		
11:08:00 AM	0.01	0.01	0.011	0.012	0.012		
11:09:00 AM	0.013	0.013	0.014	0.016	0.016		
11:10:00 AM	0.017	0.017	0.018	0.019	0.019		
11:11:00 AM	0.016	0.016	0.017	0.018	0.018		
11:12:00 AM	0.017	0.017	0.018	0.02	0.02		
11:13:00 AM	0.012	0.013	0.013	0.014	0.014		
11:14:00 AM	0.015	0.015	0.016	0.017	0.017		
11:15:00 AM	0.013	0.013	0.014	0.016	0.016		
11:16:00 AM	0.013	0.013	0.014	0.016	0.016		
11:17:00 AM	0.012	0.012	0.013	0.014	0.014		
11:18:00 AM	0.011	0.011	0.012	0.013	0.013		
11:19:00 AM	0.011	0.012	0.013	0.014	0.014		
11:20:00 AM	0.012	0.013	0.014	0.016	0.016		
11:21:00 AM	0.01	0.01	0.011	0.012	0.012		
11:22:00 AM	0.012	0.012	0.012	0.014	0.014		
11:23:00 AM	0.011	0.011	0.011	0.012	0.012		
11:24:00 AM	0.008	0.008	0.009	0.009	0.009		
11:25:00 AM	0.009	0.009	0.009	0.01	0.01		
11:26:00 AM	0.009	0.009	0.01	0.01	0.01		
11:27:00 AM	0.012	0.012	0.013	0.013	0.013		
11:28:00 AM	0.01	0.011	0.011	0.012	0.012		
11:29:00 AM	0.009	0.01	0.01	0.011	0.011		
11:30:00 AM	0.009	0.009	0.01	0.01	0.01		

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533123506
Firmware Version	3
Calibration Date	2/18/2014
Test Name	MANUAL_010
Test Start Time	11:04:30 AM
Test Start Date	10/21/2013
Test Length [D:H:M]	0:02:13
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.007
PM1 Minimum [mg/m3]	0.003
PM1 Maximum [mg/m3]	0.016
PM1 TWA [mg/m3]	0.002
PM2.5 Average [mg/m3]	0.008
PM2.5 Minimum [mg/m3]	0.003
PM2.5 Maximum [mg/m3]	0.017
PM2.5 TWA [mg/m3]	0.002
PM4 Average [mg/m3]	0.008
PM4 Minimum [mg/m3]	0.004
PM4 Maximum [mg/m3]	0.017
PM4 TWA [mg/m3]	0.002
PM10 Average [mg/m3]	0.009
PM10 Minimum [mg/m3]	0.004
PM10 Maximum [mg/m3]	0.02
PM10 TWA [mg/m3]	0.003
TOTAL Average [mg/m3]	0.009
TOTAL Minimum [mg/m3]	0.004
TOTAL Maximum [mg/m3]	0.021
TOTAL TWA [mg/m3]	0.003
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	133

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors	Difference
11:04:00 AM	0.012	0.014	0.014	0.017	0.018			-0.006
11:05:00 AM	0.011	0.012	0.013	0.014	0.014			0.001
11:06:00 AM	0.008	0.008	0.009	0.009	0.009			-0.005
11:07:00 AM	0.009	0.009	0.01	0.011	0.011			-0.013
11:08:00 AM	0.007	0.008	0.009	0.01	0.01			-0.002
11:09:00 AM	0.008	0.009	0.01	0.011	0.011			-0.005
11:10:00 AM	0.009	0.01	0.011	0.012	0.013			-0.006
11:11:00 AM	0.007	0.008	0.008	0.009	0.009			-0.009
11:12:00 AM	0.008	0.009	0.01	0.011	0.011			-0.009
11:13:00 AM	0.009	0.01	0.011	0.011	0.012			-0.002
11:14:00 AM	0.012	0.014	0.015	0.018	0.019			0.002
11:15:00 AM	0.009	0.01	0.011	0.013	0.013			-0.003
11:16:00 AM	0.007	0.008	0.008	0.009	0.009			-0.007
11:17:00 AM	0.006	0.006	0.007	0.008	0.008			-0.006
11:18:00 AM	0.006	0.007	0.008	0.008	0.008			-0.005
11:19:00 AM	0.016	0.017	0.017	0.02	0.021			0.007
11:20:00 AM	0.008	0.009	0.009	0.01	0.011			-0.005
11:21:00 AM	0.008	0.009	0.009	0.01	0.01			-0.002
11:22:00 AM	0.005	0.006	0.006	0.007	0.008			-0.006
11:23:00 AM	0.004	0.005	0.005	0.006	0.006			-0.006
11:24:00 AM	0.006	0.007	0.007	0.008	0.008			-0.001
11:25:00 AM	0.005	0.006	0.006	0.007	0.007			-0.003
11:26:00 AM	0.006	0.007	0.007	0.008	0.009			-0.001
11:27:00 AM	0.007	0.008	0.008	0.009	0.009			-0.004
11:28:00 AM	0.004	0.005	0.005	0.006	0.006			-0.006
11:29:00 AM	0.005	0.005	0.006	0.007	0.007			-0.004
11:30:00 AM	0.008	0.009	0.01	0.011	0.011			0.001

11:31:00 AM	0.009	0.009	0.01	0.01	0.01	11:31:00 AM	0.007	0.008	0.008	0.009	0.009	-0.001
11:32:00 AM	0.01	0.01	0.011	0.011	0.011	11:32:00 AM	0.008	0.009	0.009	0.011	0.011	0
11:33:00 AM	0.011	0.011	0.012	0.013	0.013	11:33:00 AM	0.005	0.005	0.006	0.007	0.007	-0.006
11:34:00 AM	0.011	0.011	0.012	0.012	0.012	11:34:00 AM	0.006	0.006	0.007	0.007	0.007	-0.005
11:35:00 AM	0.011	0.011	0.011	0.013	0.013	11:35:00 AM	0.009	0.01	0.011	0.013	0.013	0
11:36:00 AM	0.009	0.01	0.01	0.011	0.011	11:36:00 AM	0.007	0.008	0.008	0.009	0.009	-0.002
11:37:00 AM	0.011	0.012	0.013	0.014	0.014	11:37:00 AM	0.008	0.01	0.011	0.014	0.014	0
11:38:00 AM	0.013	0.013	0.014	0.016	0.016	11:38:00 AM	0.004	0.005	0.005	0.007	0.007	-0.009
11:39:00 AM	0.012	0.012	0.013	0.015	0.015	11:39:00 AM	0.01	0.011	0.013	0.017	0.017	0.002
11:40:00 AM	0.013	0.014	0.015	0.017	0.017	11:40:00 AM	0.008	0.009	0.01	0.011	0.011	-0.006
11:41:00 AM	0.013	0.013	0.014	0.017	0.017	11:41:00 AM	0.007	0.008	0.008	0.009	0.009	-0.008
11:42:00 AM	0.012	0.012	0.013	0.015	0.015	11:42:00 AM	0.01	0.011	0.013	0.015	0.015	0
11:43:00 AM	0.008	0.009	0.009	0.01	0.01	11:43:00 AM	0.007	0.009	0.01	0.011	0.012	0.002
11:44:00 AM	0.01	0.011	0.011	0.013	0.013	11:44:00 AM	0.007	0.008	0.009	0.01	0.01	-0.003
11:45:00 AM	0.011	0.012	0.013	0.014	0.014	11:45:00 AM	0.007	0.008	0.008	0.01	0.01	-0.004
11:46:00 AM	0.012	0.012	0.013	0.015	0.015	11:46:00 AM	0.005	0.005	0.006	0.007	0.007	-0.008
11:47:00 AM	0.01	0.01	0.011	0.012	0.012	11:47:00 AM	0.006	0.007	0.007	0.008	0.008	-0.004
11:48:00 AM	0.009	0.009	0.01	0.01	0.01	11:48:00 AM	0.004	0.004	0.004	0.005	0.005	-0.005
11:49:00 AM	0.009	0.009	0.01	0.011	0.011	11:49:00 AM	0.003	0.003	0.004	0.004	0.004	-0.007
11:50:00 AM	0.008	0.008	0.009	0.009	0.009	11:50:00 AM	0.004	0.005	0.005	0.006	0.006	-0.003
11:51:00 AM	0.008	0.008	0.008	0.009	0.009	11:51:00 AM	0.003	0.004	0.004	0.004	0.004	-0.005
11:52:00 AM	0.008	0.009	0.009	0.01	0.01	11:52:00 AM	0.005	0.006	0.006	0.007	0.007	-0.003
11:53:00 AM	0.009	0.01	0.01	0.01	0.01	11:53:00 AM	0.007	0.007	0.008	0.009	0.009	-0.001
11:54:00 AM	0.008	0.008	0.008	0.009	0.009	11:54:00 AM	0.005	0.006	0.006	0.007	0.007	-0.002
11:55:00 AM	0.026	0.026	0.027	0.027	0.027	11:55:00 AM	0.008	0.009	0.009	0.011	0.011	-0.016
11:56:00 AM	0.013	0.013	0.013	0.014	0.014	11:56:00 AM	0.007	0.008	0.008	0.009	0.01	-0.004
11:57:00 AM	0.011	0.011	0.012	0.013	0.013	11:57:00 AM	0.005	0.006	0.006	0.006	0.007	-0.006
11:58:00 AM	0.01	0.01	0.01	0.011	0.011	11:58:00 AM	0.006	0.007	0.007	0.009	0.009	-0.002
11:59:00 AM	0.009	0.009	0.009	0.01	0.01	11:59:00 AM	0.005	0.006	0.006	0.006	0.006	-0.004
12:00:00 PM	0.012	0.012	0.012	0.013	0.014	12:00:00 PM	0.006	0.007	0.007	0.008	0.008	-0.006
12:01:00 PM	0.013	0.013	0.014	0.014	0.014	12:01:00 PM	0.008	0.009	0.009	0.011	0.011	-0.003
12:02:00 PM	0.01	0.011	0.011	0.013	0.013	12:02:00 PM	0.005	0.005	0.005	0.006	0.006	-0.007
12:03:00 PM	0.011	0.011	0.012	0.013	0.013	12:03:00 PM	0.006	0.006	0.007	0.008	0.008	-0.005
12:04:00 PM	0.008	0.009	0.009	0.009	0.009	12:04:00 PM	0.005	0.005	0.006	0.006	0.006	-0.003
12:05:00 PM	0.013	0.013	0.014	0.014	0.014	12:05:00 PM	0.006	0.007	0.007	0.008	0.008	-0.006
12:06:00 PM	0.008	0.009	0.009	0.009	0.01	12:06:00 PM	0.006	0.007	0.007	0.008	0.008	-0.002
12:07:00 PM	0.009	0.009	0.009	0.01	0.01	12:07:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
12:08:00 PM	0.008	0.009	0.009	0.009	0.009	12:08:00 PM	0.008	0.009	0.01	0.011	0.012	0.003
12:09:00 PM	0.01	0.01	0.011	0.012	0.012	12:09:00 PM	0.006	0.006	0.006	0.007	0.007	-0.005
12:10:00 PM	0.012	0.012	0.012	0.014	0.014	12:10:00 PM	0.009	0.01	0.011	0.013	0.014	0
12:11:00 PM	0.01	0.01	0.011	0.011	0.011	12:11:00 PM	0.005	0.006	0.006	0.007	0.007	-0.004
12:12:00 PM	0.009	0.01	0.01	0.011	0.012	12:12:00 PM	0.006	0.007	0.007	0.008	0.01	-0.002
12:13:00 PM	0.009	0.009	0.009	0.01	0.01	12:13:00 PM	0.011	0.011	0.012	0.013	0.014	0.004
12:14:00 PM	0.01	0.01	0.01	0.012	0.012	12:14:00 PM	0.006	0.007	0.007	0.008	0.009	-0.003
12:15:00 PM	0.01	0.011	0.011	0.012	0.012	12:15:00 PM	0.006	0.007	0.007	0.008	0.008	-0.004
12:16:00 PM	0.01	0.01	0.01	0.011	0.011	12:16:00 PM	0.008	0.009	0.009	0.01	0.01	-0.001
12:17:00 PM	0.011	0.011	0.012	0.014	0.014	12:17:00 PM	0.008	0.009	0.009	0.01	0.01	-0.004
12:18:00 PM	0.012	0.013	0.014	0.016	0.016	12:18:00 PM	0.006	0.006	0.006	0.007	0.007	-0.009
12:19:00 PM	0.011	0.011	0.012	0.014	0.014	12:19:00 PM	0.005	0.005	0.006	0.006	0.006	-0.008
12:20:00 PM	0.009	0.009	0.009	0.01	0.01	12:20:00 PM	0.006	0.007	0.007	0.008	0.008	-0.002
12:21:00 PM	0.011	0.011	0.011	0.012	0.012	12:21:00 PM	0.006	0.007	0.007	0.008	0.009	-0.003
12:22:00 PM	0.014	0.015	0.016	0.019	0.019	12:22:00 PM	0.006	0.007	0.007	0.008	0.009	-0.01
12:23:00 PM	0.012	0.013	0.013	0.014	0.014	12:23:00 PM	0.005	0.006	0.006	0.006	0.007	-0.007
12:24:00 PM	0.013	0.013	0.014	0.017	0.017	12:24:00 PM	0.005	0.005	0.005	0.005	0.005	-0.012
12:25:00 PM	0.009	0.009	0.009	0.009	0.009	12:25:00 PM	0.006	0.006	0.007	0.007	0.008	-0.001
12:26:00 PM	0.009	0.009	0.01	0.01	0.01	12:26:00 PM	0.014	0.015	0.015	0.016	0.017	0.007
12:27:00 PM	0.01	0.011	0.011	0.012	0.012	12:27:00 PM	0.008	0.008	0.009	0.009	0.01	-0.002
12:28:00 PM	0.011	0.011	0.011	0.012	0.012	12:28:00 PM	0.007	0.008	0.008	0.009	0.009	-0.003
12:29:00 PM	0.01	0.01	0.01	0.011	0.011	12:29:00 PM	0.01	0.01	0.011	0.012	0.012	0.001
12:30:00 PM	0.009	0.009	0.009	0.01	0.01	12:30:00 PM	0.007	0.007	0.008	0.009	0.009	-0.001
12:31:00 PM	0.014	0.014	0.014	0.015	0.015	12:31:00 PM	0.007	0.008	0.008	0.009	0.009	-0.006
12:32:00 PM	0.013	0.013	0.014	0.015	0.015	12:32:00 PM	0.01	0.01	0.011	0.012	0.012	-0.003
12:33:00 PM	0.011	0.011	0.011	0.012	0.012	12:33:00 PM	0.007	0.008	0.008	0.008	0.008	-0.004
12:34:00 PM	0.011	0.011	0.012	0.012	0.012	12:34:00 PM	0.005	0.006	0.006	0.007	0.007	-0.005
12:35:00 PM	0.01	0.011	0.011	0.012	0.012	12:35:00 PM	0.008	0.009	0.01	0.012	0.012	0
12:36:00 PM	0.01	0.011	0.011	0.011	0.011	12:36:00 PM	0.009	0.01	0.011	0.013	0.013	0.002

12:37:00 PM	0.011	0.012	0.012	0.013	0.013
12:38:00 PM	0.011	0.012	0.012	0.013	0.014
12:39:00 PM	0.011	0.011	0.012	0.013	0.013
12:40:00 PM	0.011	0.011	0.012	0.012	0.012
12:41:00 PM	0.01	0.01	0.01	0.011	0.011
12:42:00 PM	0.01	0.01	0.01	0.011	0.012
12:43:00 PM	0.011	0.011	0.012	0.014	0.014
12:44:00 PM	0.01	0.01	0.011	0.012	0.012
12:45:00 PM	0.009	0.009	0.01	0.011	0.011
12:46:00 PM	0.009	0.009	0.009	0.01	0.01
12:47:00 PM	0.01	0.01	0.01	0.011	0.011
12:48:00 PM	0.011	0.011	0.011	0.012	0.012
12:49:00 PM	0.011	0.011	0.012	0.012	0.012
12:50:00 PM	0.014	0.014	0.015	0.015	0.015
12:51:00 PM	0.012	0.012	0.013	0.014	0.015
12:52:00 PM	0.011	0.011	0.012	0.013	0.013
12:53:00 PM	0.009	0.01	0.01	0.01	0.01
12:54:00 PM	0.011	0.011	0.012	0.013	0.013
12:55:00 PM	0.01	0.01	0.01	0.011	0.011
12:56:00 PM	0.009	0.009	0.01	0.01	0.01
12:57:00 PM	0.01	0.01	0.01	0.011	0.011
12:58:00 PM	0.01	0.01	0.011	0.012	0.012
12:59:00 PM	0.009	0.01	0.01	0.011	0.011
1:00:00 PM	0.01	0.01	0.011	0.011	0.011
1:01:00 PM	0.011	0.011	0.012	0.012	0.012
1:02:00 PM	0.01	0.011	0.011	0.011	0.011
1:03:00 PM	0.011	0.012	0.012	0.013	0.013
1:04:00 PM	0.011	0.011	0.011	0.012	0.012
1:05:00 PM	0.01	0.01	0.01	0.011	0.011
1:06:00 PM	0.011	0.011	0.012	0.012	0.012
1:07:00 PM	0.011	0.011	0.011	0.013	0.013
1:08:00 PM	0.012	0.012	0.012	0.014	0.014
1:09:00 PM	0.009	0.01	0.01	0.01	0.01
1:10:00 PM	0.009	0.009	0.009	0.01	0.01
1:11:00 PM	0.01	0.01	0.01	0.011	0.011
1:12:00 PM	0.01	0.01	0.011	0.012	0.012
1:13:00 PM	0.011	0.011	0.012	0.012	0.012
1:14:00 PM	0.014	0.014	0.014	0.015	0.015
1:15:00 PM	0.013	0.014	0.014	0.016	0.016
1:16:00 PM	0.012	0.012	0.013	0.014	0.014
1:17:00 PM	0.013	0.014	0.015	0.016	0.016
1:18:00 PM	0.012	0.012	0.013	0.014	0.014
1:19:00 PM	0.012	0.012	0.013	0.015	0.015
1:20:00 PM	0.013	0.014	0.014	0.015	0.015
1:21:00 PM	0.015	0.015	0.015	0.016	0.016

12:37:00 PM	0.006	0.007	0.007	0.008	0.008	-0.005
12:38:00 PM	0.007	0.007	0.008	0.008	0.008	-0.006
12:39:00 PM	0.007	0.007	0.008	0.009	0.009	-0.004
12:40:00 PM	0.008	0.008	0.009	0.009	0.009	-0.003
12:41:00 PM	0.01	0.011	0.011	0.012	0.012	0.001
12:42:00 PM	0.011	0.011	0.012	0.014	0.016	0.004
12:43:00 PM	0.008	0.009	0.01	0.011	0.012	-0.002
12:44:00 PM	0.008	0.009	0.009	0.01	0.012	0
12:45:00 PM	0.007	0.008	0.008	0.009	0.009	-0.002
12:46:00 PM	0.005	0.005	0.005	0.006	0.006	-0.004
12:47:00 PM	0.005	0.005	0.006	0.006	0.006	-0.005
12:48:00 PM	0.007	0.007	0.007	0.008	0.008	-0.004
12:49:00 PM	0.006	0.006	0.007	0.007	0.007	-0.005
12:50:00 PM	0.006	0.007	0.007	0.008	0.008	-0.007
12:51:00 PM	0.006	0.006	0.006	0.008	0.008	-0.007
12:52:00 PM	0.006	0.007	0.007	0.008	0.008	-0.005
12:53:00 PM	0.007	0.008	0.008	0.009	0.009	-0.001
12:54:00 PM	0.005	0.005	0.006	0.006	0.006	-0.007
12:55:00 PM	0.009	0.009	0.009	0.01	0.011	0
12:56:00 PM	0.006	0.006	0.006	0.006	0.006	-0.004
12:57:00 PM	0.008	0.009	0.009	0.01	0.01	-0.001
12:58:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
12:59:00 PM	0.008	0.008	0.009	0.009	0.009	-0.002
1:00:00 PM	0.006	0.007	0.007	0.008	0.008	-0.003
1:01:00 PM	0.007	0.008	0.008	0.009	0.009	-0.003
1:02:00 PM	0.007	0.007	0.007	0.008	0.009	-0.002
1:03:00 PM	0.005	0.006	0.006	0.006	0.007	-0.006
1:04:00 PM	0.008	0.009	0.009	0.01	0.01	-0.002
1:05:00 PM	0.008	0.009	0.009	0.011	0.011	0
1:06:00 PM	0.007	0.008	0.008	0.009	0.011	-0.001
1:07:00 PM	0.007	0.007	0.008	0.008	0.009	-0.004
1:08:00 PM	0.007	0.007	0.008	0.009	0.01	-0.004
1:09:00 PM	0.007	0.008	0.009	0.011	0.011	0.001
1:10:00 PM	0.007	0.008	0.008	0.01	0.01	0
1:11:00 PM	0.007	0.008	0.008	0.01	0.01	-0.001
1:12:00 PM	0.007	0.007	0.008	0.009	0.009	-0.003
1:13:00 PM	0.009	0.01	0.01	0.012	0.012	0
1:14:00 PM	0.009	0.01	0.01	0.012	0.012	-0.003
1:15:00 PM	0.007	0.007	0.008	0.009	0.009	-0.007
1:16:00 PM	0.006	0.007	0.007	0.008	0.008	-0.006

RI Addendum No. 4 (2015)

January 2016

AECOM

Client: National Grid
Location: ~~Manhattan~~ Brooklyn, NY
Date: 3/26/15
Field Personnel: MB & SW

SB-43

Project: Equity MGP
Project Number: 60137363
Weather: Indoors
Ambient Noise: 65 dBa

Community Air Monitoring Plan / Noise Field Log

(multi gas)

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
10:00	0.0	0.086	1.0	0.3	0.153	65.0	Setting up at SB-43
10:15	0.1	0.109	0.8	0.3	0.150	72.6	Coring through concrete
10:30	0.1	0.122	0.8	0.4	0.174	65.0	Soft digging
10:45	0.2	0.140	0.9	0.4	0.169	65.0	" "
11:00	0.3	0.155	0.8	0.5	0.176	65.0	" "
11:15	0.3	0.152	0.4	0.5	0.182	65.0	" "
11:30	0.4	0.145	0.8	0.6	0.180	65.0	" "
11:45	0.4	0.133	0.6	0.6	0.187	65.0	Bringing rig inside
12:00	0.3	0.158	0.8	0.5	0.171	70.2	setting up rig
12:15	0.4	0.173	0.8	0.7	0.222	76.3	Drilling at SB-43
12:30	0.4	0.218	0.8	0.7	0.205	65.0	" "
12:45	0.5	0.231	0.8	0.7	0.231	71.4	" "
1:00	0.6	0.243	0.8	0.8	0.228	68.4	" "
1:15	0.7	0.275	0.8	0.8	0.223	71.3	" "
1:30	0.8	0.264	0.4	0.8	0.232	65.0	" "
1:45	0.8	0.247	0.9	0.8	0.247	74.4	" "
2:00	0.8	0.261	1.0	0.9	0.252	76.8	" "
2:15	0.7	0.254	1.7	1.0	0.262	65.0	" "
2:30	1.0	0.243	1.5	1.0	0.268	65.0	" "
2:45	1.0	0.241	1.5	1.2	0.271	65.0	Finished drilling
3:00	1.0	0.236	1.5	1.5	0.277	65.0	clean up

AECOM

SB 44

Client: National Grid
Location: Brooklyn, NY
Date: 3/27/15
Field Personnel: MB + SW

Project: Equity Former MGP
Project Number: 60137362
Weather: Indoor
Ambient Noise: 65 dBA

Community Air Monitoring Plan / Noise Field Log

(Multi gas)

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:45	0.0	0.119	1.0	~~0.0~~ 0.0	0.151	75.6	Curing cement
10:00	0.0	0.057	1.0	0.0	0.121	74.7	" "
10:15	0.0	0.028	1.0	0.0	0.129	65.0	Land clearing
10:30	0.0	0.024	1.1	0.0	0.135	65.2	" "
10:45	0.0	0.049	0.4	0.0	0.141	73.4	Drilling at SB44
11:00	0.0	0.070	0.9	0.0	0.154	64.4	" "
11:15	0.0	0.088	1.0	0.0	0.173	71.8	" "
11:30	0.0	0.058	1.0	0.0	0.162	67.3	" "
11:45	0.0	0.072	0.8	0.0	0.249	70.9	" "
12:00	0.0	0.058	0.9	0.0	0.142	65.0	Break
12:15	0.0	0.050	1.0	0.1	0.163	65.2	Resumed drilling
12:30	0.0	0.077	1.0	0.2	0.181	72.4	" "
12:45	0.0	0.080	0.9	0.2	0.182	65.0	Finished drilling

* Work Area PID does not zero,

AECOM

Client: National Grid
Location: Brooklyn
Date: 3/31/25
Field Personnel: MB + SW

SB-42

Project: Equity MGP
Project Number: 60137362
Weather: Indoors
Ambient Noise: 65.0

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:35	0.0	0.056	0.0	0.0	0.166	68.4	Setting up at SB-42
9:50	0.1	0.060	0.0	0.0	0.156	82.4	Coring at SB-42
10:05	0.1	0.055	0.0	0.1	0.261	72.4	" "
10:20	0.2	0.065	0.0	0.2	0.124	65.0	Setting up for pre-clear
10:35	0.2	0.077	0.0	0.2	0.135	65.0	Pre-clearing SB-42
10:50	0.2	0.077	0.0	0.2	0.154	73.7	" "
11:05	0.2	0.054	0.0	0.2	0.178	65.0	" "
11:20	0.2	0.058	0.0	0.3	0.137	77.7	Drilling at SB-42
11:35	0.2	0.083	0.0	0.2	0.153	72.4	" "
11:50	0.2	0.081	0.0	0.2	0.157	73.9	" "
12:05	0.2	0.083	0.0	0.3	0.153	71.1	" "
12:20	0.2	0.166	0.0	0.2	0.149	74.7	" "
12:35	0.2	0.161	0.0	0.4	0.177	76.5	" "
12:50	0.6	0.218	0.0	0.5	0.194	77.1	" "
1:05	0.3	0.146	0.0	0.7	0.214	75.0	" "
1:20	0.4	0.140	0.0	0.7	0.222	65.0	Finished boring

*

AECOM

Client: National Grid
Location: Brooklyn
Date: 3/3/15
Field Personnel: MB & SW

SB40 / SB41

Project: Equity MGP
Project Number: 60137362
Weather: Indoors
Ambient Noise: 65.0

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:20	0.1	0.052	0.1	0.1	0.164	65.0	setting up to core at SB40
9:35	0.4	0.035	0.1	0.2	0.121	73.5	Coring cement
9:50	0.4	0.025	0.2	0.2	0.140	65.0	Open 64 door for generator
10:05	0.6	0.084	0.4	0.6	0.199	76.1	Coring cement
10:20	0.5	0.023	0.3	0.3	0.106	73.3	" "
10:35	0.6	0.034	0.3	0.3	0.121	65.0	Hand clearing at SB40
10:50	0.6	0.074	0.4	0.4	0.175	68.8	" "
1 * 11:05	0.4	0.035	0.3	0.4	0.128	67.3	Moving to new location
2 * 11:20	0.8	0.084	0.5	0.4	0.173	65.0	Setting up at new location SB41
11:35	0.8	0.176	0.4	0.5	0.207	74.8	Coring at SB41
3 * 11:50	1.0	0.273	0.7	0.9	0.326	65.0	Pre-clearing at SB41
12:05	1.0	0.199	0.5	0.8	0.284	65.0	" "
12:20	0.9	0.127	0.5	0.6	0.212	74.7	" "
12:35	~~0.9~~ 1.0	0.079	0.5	0.7	0.259	65.0	" "
12:50	0.8	0.046	0.5	0.5	0.172	65.0	" "
1:05	0.8	0.091	0.5	0.6	0.217	65.0	Boring hole cracked, need new hole
4 * 1:20	0.9	0.129	0.5	0.7	0.246	72.1	Coring step out location at SB41
1:35	1.0	0.125	0.6	0.9	0.299	74.8	" "
1:50	1.4	0.228	0.6	1.0	0.323	73.6	Drilling at SB41
2:05	1.4	0.226	0.6	1.0	0.325	81.5	" "
2:20	1.4	0.244	0.6	1.6	0.274	87.1	" "
2:35	1.4	0.243	0.6	1.0	0.281	80.1	" "

1 * Shutting down equipment to move locations
2 * Setting up at new location and turning equipment back on
3 * numbers slightly high due to drill rig exhaust
4 * Rig exhaust blowing on casing, moving upwind to new spot

AECOM

Client: National Grid
Location: Brooklyn
Date: 9/3/15
Field Personnel: MB & SW

Project: Equity MGP
Project Number: 60137362
Weather: Indoors
Ambient Noise: 65.0

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
7:30	0.2	0.064	0.3	0.7	0.234	77.8	Drilling at SB 40
1* 7:45	0.3	0.046	0.5	1.3	0.230	75.7	" "
8:00	0.3	0.042	0.5	2.0	0.275	73.5	" "
2* 8:15	0.5	0.073	0.5	1.3	0.330	74.1	" "
8:30	0.4	0.050	0.5	1.2	0.309	79.0	" "
8:45	0.3	0.041	0.4	1.1	0.277	82.6	" "
9:00	0.4	0.036	0.4	0.9	0.236	94.5	" "
9:15	0.3	0.032	0.5	0.7	0.222	85.4	" "
3* 9:30	0.4	0.038	0.5	0.7	0.233	76.8	Finished Drilling
4* 12:20	0.7	0.176	0.4	0.6	0.247	71.8	setting up at SB41
12:35	0.6	0.093	0.5	0.5	0.165	68.3	Left back to finish cementing SB40
12:50	0.6	0.088	0.5	0.5	0.153	67.9	Setting up on SB 41
1:05	0.6	0.080	0.5	0.5	0.146	71.8	Drilling at SB41
1:20	0.6	0.076	0.5	0.6	0.189	68.4	" "

* Downwind is near rig exhaust
1* Rig turned off at 7:48 and Downwind PID dropped to 0.5 ppm
2* Moved Dust trak further from rig exhaust but it is still directly downwind of exhaust
3* Moving locations, shutting down CAMP
4* New location

AECOM

Client: National Grid
Location: Brooklyn, NY
Date: 4-29-15
Field Personnel: J. Savona

Project: Equity
Project Number: 60137362
Weather: 60° / Sunny
Ambient Noise: Fork lifts

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
10:15	0.0	0.062	0.2	0.0	0.059	79.3	Mobing Rig to location
10:40	0.0	0.201	0.4	0.0	0.0123	72.7	setting up at SB-45
10:55	0.0	0.309	0.4	0.0	0.218	86.9	Core Barr at SB-45
11:10	0.0	0.284	0.4	0.0	0.297	81.8	setting up Poly for Rig
		Went over to 9 Reno to walk locations.					
11:50	0.0	0.392	0.4	0.0	0.282	60.0	Handclearing at SB-45
12:10	0.0	0.287	0.4	0.0	0.196	76.9	"
12:25	0.0	0.207	0.4	0.0	0.102	81.3	"
12:45	0.0	0.188	0.4	0.0	0.099	85.4	"
13:00	0.0	0.180	0.4	0.0	0.081	81.1	Drilling at SB-45
		No Intrusive work					
13:50	0.0	0.120	0.2	0.0	0.045	90.1	Core saw at stepout for SB-45
14:05	0.0	0.222	0.2	0.0	0.102	82.4	handclearing at SB-45
14:20	0.0	0.302	0.4	0.0	0.158	90.9	Drilling at SB-45
			No Intrusive Work				
17:48	0.0	0.225	0.2	0.4	0.250	72.6	cleaning up for day

10:55 - Dust Traks reading high. Recalibrating upwind.
JP said it's fine b/c they started high.

AECOM

Client: National Grid
Location: Brooklyn, NY
Date: 4-30-15
Field Personnel: J. Christopher / J. Savona / J. Pfeiffer

Project: Equity
Project Number: 60137362
Weather: 60° / Sunny / Windy
Ambient Noise: Fork lifts

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
9:30	~~0.0~~					~~88.1~~	Setup CAMP- Baseline - NO data collected
1015	0.0	0.110	0.0	0.0	0.041	88.1	All units logging, starting up work
1030	0.0	0.091	0.0	0.0	0.039	59.9	
1045	0.0	0.094	0.0	0.0	0.077	62.1	
1100	0.0	0.068	0.0	0.0	0.018	83.1	Begin preclear - concrete slab
1115	0.0	0.099	0.0	0.0	0.046	73.0	Begin preclear - hand clear
1130	0.0	0.086	0.0	0.0	0.053	65.0	
1145	0.0	0.052	0.0	0.0	0.036	65.0	
			Lunch Break				
1300	0.1	0.045	0.0	0.0	0.026	75.1	
1315	0.0	0.071	0.0	0.0	0.031	72.2	
1330	0.0	0.075	0.0	0.0	0.041	78.0	
1345	0.0	0.092	0.0	0.0	0.038	78.4	
1400	0.0	0.077	0.0	0.0	0.059	78.5	
1415	0.0	0.143	0.0	0.0	~~0.0~~ 0.118	90.9	
1430	0.0	0.098	0.0	0.0	0.090	75.6	Rig down @ ~1420
1503	0.0	0.055	0.0	0.0	0.060	82.8	20.9% | 26 | 0 | 0 | 0
1526	0.0	0.094	0.0	0.0	0.075	72.3	20.9% | 25 | 0 | 0 | 0
15:49	0.2	0.068	0.0	0.0	0.049	64.4	
1610	0.0	0.033	0.0	0.0	0.039	80.7	20.9% 8 | 0 | 0 | 0.

⊕ Had to stop UW dust trak at 4-25 due to battery issues. DW turned off at 4:15. Turned back on.

AECOM

Client: N. Grid
Location: Brooklyn, NY
Date: 4.30.15
Field Personnel: J. Savona / J. Pfeffer

Project: Equity
Project Number: 60137360
Weather: 60° / Sunny / windy
Ambient Noise: Fork lifts

Community Air Monitoring Plan / Noise Field Log

multigas meter readings Oxy / CO / LEL / H2S / VOC.

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	Comments
1620	0.0	0.039	0.0	↑	0.0	78.5	20.9 / 6 / 0 / 0 / 0 SB-47 running
							dustrak off / low battery
1638	0.0	0.048	0.0	0.0	0.023	84.8	20.9 / 11 / 0 / 0 / 0.
1652	0.0	0.022	0.0	0.0	0.041	79.9	20.9 / 12 / 0 / 0 / 0.
		↑					dustrak off. low battery.
			1700 - Turned off CAMP				

AECOM

Client: N.Grid
Location: Brooklyn
Date: 5.1.15
Field Personnel: J. Savona

Project: Equity
Project Number: 60137362
Weather: 50°s / Cloudy
Ambient Noise: Forklifts

Community Air Monitoring Plan / Noise Field Log

Time	Upwind PID	Upwind Dust Trak	Work Area PID	Downwind PID	Downwind Dust Trak	dB Readings[1]	~~Comments~~ LEL (Multi-Rae)
10:20	0.3	0.066	0.0	0.0	0.017	82.1	Core Saw @ SB-46
10:35	0.3	0.061	0.0	0.0	0.024	79.6	OXY / LEL / CO / H2S 20.9 / 0 / 4 / 0.0
10:50	0.2	0.038	0.0	0.0	0.042	84.4	20.9 / 0 / 0 / 0.0
Drilling-> 12:15	0.4	0.045	0.0	0.0	0.026	82.5	20.9 / 0 / 0 / 0.0
			Lunch - No Intrusive Work				
13:45	0.3	0.064	0.0	0.0	0.018	84.8	20.9 / 0 / 2 / 0.0
14:15	0.2	0.030	0.0	0.0	0.030	88.1	20.9 / 0 / 0 / 0.0
15:10	0.3	0.045	0.0	0.0	0.023	88.6	20.9 / 0 / 2 / 0.0
preparing to tremie grout -> 16:00	0.3	0.029	0.0	0.0	0.022	84.4	20.9 / 0 / 16 / 0.0 < Drilling moving out of building
16:25	0.2	0.050	Turn off LEL CAMP	0.0 OFF	0.049	65.3	Tremi-grouting

10:15 turned on CAMP equipment

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013370
User ID: 00000001 Site ID: 00000013
Data Points: 1 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 04/28/2015 11:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	4/29/2015 18:16	0		0		0	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 012691
User ID: 00000001 Site ID: 00000035
Data Points: 30 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 01/13/2015 06:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25	25	25
Low Alarm Levels:	5	5	5

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm	**Difference**
1	1/13/2015 7:04	0		0		0		0
2	1/13/2015 7:19	0		0		0.1		0
3	1/13/2015 7:34	0		0		0		0
4	1/13/2015 7:49	0		0		0		0
5	1/13/2015 8:04	0		0		0		0
6	1/13/2015 8:19	0		0		0		0
7	1/13/2015 8:34	0		0		0.1		0
8	1/13/2015 8:49	0		0		0.2		0
9	1/13/2015 9:04	0		0		0.2		0
10	1/13/2015 9:19	0		0		0.1		0
11	1/13/2015 9:34	0		0		0.2		0
12	1/13/2015 9:49	0		0		0.1		0
13	1/13/2015 10:04	0		0		0.1		0
14	1/13/2015 10:19	0		0		0.1		0
15	1/13/2015 10:34	0		0		0.1		0
16	1/13/2015 10:49	0		0		0.1		0
17	1/13/2015 11:04	0		0		0.1		0
18	1/13/2015 11:19	0		0		0.1		0
19	1/13/2015 11:34	0		0		0.1		0
20	1/13/2015 11:49	0		0		0.1		0
21	1/13/2015 12:04	0		0		0.1		0
22	1/13/2015 12:19	0		0		0.1		0
23	1/13/2015 12:34	0		0		0.1		0
24	1/13/2015 12:49	0		0		0.1		0
25	1/13/2015 13:04	0		0		0.1		0
26	1/13/2015 13:19	0		0		0.1		0
27	1/13/2015 13:34	0		0		0.1		0
28	1/13/2015 13:49	0		0		0.2		0
29	1/13/2015 14:04	0		0		0.1		0
30	1/13/2015 14:19	0		0		0.1		0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013370
User ID: 00000001 Site ID: 00000015
Data Points: 458 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 04/30/2015 07:53

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm
1	4/30/2015	9:24	0		0		0	
2	4/30/2015	9:25	0		0		0	
3	4/30/2015	9:26	0		0		0	
4	4/30/2015	9:27	0		0		0	
5	4/30/2015	9:28	0		0		0	
6	4/30/2015	9:29	0		0		0	
7	4/30/2015	9:30	0		0		0	
8	4/30/2015	9:31	0		0		0	
9	4/30/2015	9:32	0		0		0	
10	4/30/2015	9:33	0		0		0	
11	4/30/2015	9:34	0		0		0	
12	4/30/2015	9:35	0		0		0	
13	4/30/2015	9:36	0		0		0	
14	4/30/2015	9:37	0		0		0	
15	4/30/2015	9:38	0		0		0	
16	4/30/2015	9:39	0		0		0	
17	4/30/2015	9:40	0		0		0	
18	4/30/2015	9:41	0		0		0	
19	4/30/2015	9:42	0		0		0	
20	4/30/2015	9:43	0		0		0.1	
21	4/30/2015	9:44	0		0		0	
22	4/30/2015	9:45	0		0		0	
23	4/30/2015	9:46	0		0		0.1	
24	4/30/2015	9:47	0		0		0	
25	4/30/2015	9:48	0		0		0	
26	4/30/2015	9:49	0		0		0	
27	4/30/2015	9:50	0		0		0	
28	4/30/2015	9:51	0		0		0.1	
29	4/30/2015	9:52	0		0		0.1	
30	4/30/2015	9:53	0		0		0.1	
31	4/30/2015	9:54	0		0		0.1	
32	4/30/2015	9:55	0		0		0.1	
33	4/30/2015	9:56	0		0		0.1	
34	4/30/2015	9:57	0.1		0.1		0.1	
35	4/30/2015	9:58	0.1		0.1		0.1	
36	4/30/2015	9:59	0.1		0.1		0.1	

DOWNWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 012691
User ID: 00000001 Site ID: 00000105
Data Points: 456 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 04/30/2015 07:55

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date	Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm	**Difference**
									0
									0
1	4/30/2015	9:26	0		0		0		0
2	4/30/2015	9:27	0		0		0		0
3	4/30/2015	9:28	0		0		0		0
4	4/30/2015	9:29	0		0		0		0
5	4/30/2015	9:30	0		0		0		0
6	4/30/2015	9:31	0		0		0		0
7	4/30/2015	9:32	0		0		0		0
8	4/30/2015	9:33	0		0		0		0
9	4/30/2015	9:34	0		0		0		0
10	4/30/2015	9:35	0		0		0		0
11	4/30/2015	9:36	0		0		0		0
12	4/30/2015	9:37	0		0		0		0
13	4/30/2015	9:38	0		0		0		0
14	4/30/2015	9:39	0		0		0		0
15	4/30/2015	9:40	0		0		0		0
16	4/30/2015	9:41	0		0		0		0
17	4/30/2015	9:42	0		0		0		0
18	4/30/2015	9:43	0		0		0		0
19	4/30/2015	9:44	0		0		0		0
20	4/30/2015	9:45	0		0		0		0
21	4/30/2015	9:46	0		0		0		0
22	4/30/2015	9:47	0		0		0		0
23	4/30/2015	9:48	0		0		0		0
24	4/30/2015	9:49	0		0		0		0
25	4/30/2015	9:50	0		0		0		0
26	4/30/2015	9:51	0		0		0		0
27	4/30/2015	9:52	0		0		0		0
28	4/30/2015	9:53	0		0		0		0
29	4/30/2015	9:54	0		0		0		0
30	4/30/2015	9:55	0		0		0		0
31	4/30/2015	9:56	0		0		0		0
32	4/30/2015	9:57	0		0		0		-0.1
33	4/30/2015	9:58	0		0		0		-0.1
34	4/30/2015	9:59	0		0		0		-0.1

37	4/30/2015 10:00	0.1	0.1	0.2	35	4/30/2015 10:00	0	0	0	-0.1
38	4/30/2015 10:01	0.1	0.1	0.2	36	4/30/2015 10:01	0	0	0	-0.1
39	4/30/2015 10:02	0.1	0.1	0.2	37	4/30/2015 10:02	0	0	0	-0.1
40	4/30/2015 10:03	0.1	0.1	0.2	38	4/30/2015 10:03	0	0	0	-0.1
41	4/30/2015 10:04	0.1	0.1	0.2	39	4/30/2015 10:04	0	0	0	-0.1
42	4/30/2015 10:05	0.1	0.1	0.2	40	4/30/2015 10:05	0	0	0	-0.1
43	4/30/2015 10:06	0.1	0.1	0.2	41	4/30/2015 10:06	0	0	0	-0.1
44	4/30/2015 10:07	0.1	0.1	0.2	42	4/30/2015 10:07	0	0	0	-0.1
45	4/30/2015 10:08	0.1	0.1	0.2	43	4/30/2015 10:08	0	0	0	-0.1
46	4/30/2015 10:09	0.1	0.1	0.1	44	4/30/2015 10:09	0	0	0	-0.1
47	4/30/2015 10:10	0.1	0.1	0.2	45	4/30/2015 10:10	0	0	0	-0.1
48	4/30/2015 10:11	0.1	0.1	0.2	46	4/30/2015 10:11	0	0	0	-0.1
49	4/30/2015 10:12	0.1	0.1	0.1	47	4/30/2015 10:12	0	0	0	-0.1
50	4/30/2015 10:13	0.1	0.1	0.1	48	4/30/2015 10:13	0	0	0	-0.1
51	4/30/2015 10:14	0.1	0.1	0.1	49	4/30/2015 10:14	0	0	0	-0.1
52	4/30/2015 10:15	0.1	0.1	0.1	50	4/30/2015 10:15	0	0	0	-0.1
53	4/30/2015 10:16	0.1	0.1	0.1	51	4/30/2015 10:16	0	0	0	-0.1
54	4/30/2015 10:17	0.1	0.1	0.1	52	4/30/2015 10:17	0	0	0	-0.1
55	4/30/2015 10:18	0.1	0.1	0.1	53	4/30/2015 10:18	0	0	0	-0.1
56	4/30/2015 10:19	0.1	0.1	0.1	54	4/30/2015 10:19	0	0	0	-0.1
57	4/30/2015 10:20	0.1	0.1	0.1	55	4/30/2015 10:20	0	0	0	-0.1
58	4/30/2015 10:21	0.1	0.1	0.1	56	4/30/2015 10:21	0	0	0	-0.1
59	4/30/2015 10:22	0	0	0.1	57	4/30/2015 10:22	0	0	0	0
60	4/30/2015 10:23	0	0	0	58	4/30/2015 10:23	0	0	0	0
61	4/30/2015 10:24	0	0	0	59	4/30/2015 10:24	0	0	0	0
62	4/30/2015 10:25	0	0	0	60	4/30/2015 10:25	0	0	0	0
63	4/30/2015 10:26	0	0	0	61	4/30/2015 10:26	0	0	0	0
64	4/30/2015 10:27	0	0	0	62	4/30/2015 10:27	0	0	0	0
65	4/30/2015 10:28	0	0	0	63	4/30/2015 10:28	0	0	0	0
66	4/30/2015 10:29	0	0	0	64	4/30/2015 10:29	0	0	0	0
67	4/30/2015 10:30	0	0	0	65	4/30/2015 10:30	0	0	0	0
68	4/30/2015 10:31	0	0	0	66	4/30/2015 10:31	0	0	0	0
69	4/30/2015 10:32	0	0	0	67	4/30/2015 10:32	0	0	0	0
70	4/30/2015 10:33	0	0	0	68	4/30/2015 10:33	0	0	0	0
71	4/30/2015 10:34	0	0	0	69	4/30/2015 10:34	0	0	0	0
72	4/30/2015 10:35	0	0	0	70	4/30/2015 10:35	0	0	0	0
73	4/30/2015 10:36	0	0	0	71	4/30/2015 10:36	0	0	0	0
74	4/30/2015 10:37	0	0	0	72	4/30/2015 10:37	0	0	0	0
75	4/30/2015 10:38	0	0	0	73	4/30/2015 10:38	0	0	0	0
76	4/30/2015 10:39	0	0	0	74	4/30/2015 10:39	0	0	0	0
77	4/30/2015 10:40	0	0	0	75	4/30/2015 10:40	0	0	0	0
78	4/30/2015 10:41	0	0	0	76	4/30/2015 10:41	0	0	0	0
79	4/30/2015 10:42	0	0	0	77	4/30/2015 10:42	0	0	0	0
80	4/30/2015 10:43	0	0	0	78	4/30/2015 10:43	0	0	0	0
81	4/30/2015 10:44	0	0	0	79	4/30/2015 10:44	0	0	0	0
82	4/30/2015 10:45	0	0	0	80	4/30/2015 10:45	0	0	0	0
83	4/30/2015 10:46	0	0	0	81	4/30/2015 10:46	0	0	0	0
84	4/30/2015 10:47	0	0	0	82	4/30/2015 10:47	0	0	0	0
85	4/30/2015 10:48	0	0	0	83	4/30/2015 10:48	0	0	0	0

86	4/30/2015 10:49	0	0	0	84	4/30/2015 10:49	0	0	0	0
87	4/30/2015 10:50	0	0	0	85	4/30/2015 10:50	0	0	0	0
88	4/30/2015 10:51	0	0	0	86	4/30/2015 10:51	0	0	0	0
89	4/30/2015 10:52	0	0	0	87	4/30/2015 10:52	0	0	0	0
90	4/30/2015 10:53	0	0	0	88	4/30/2015 10:53	0	0	0	0
91	4/30/2015 10:54	0	0	0	89	4/30/2015 10:54	0	0	0	0
92	4/30/2015 10:55	0	0	0	90	4/30/2015 10:55	0	0	0	0
93	4/30/2015 10:56	0	0	0	91	4/30/2015 10:56	0	0	0	0
94	4/30/2015 10:57	0	0	0	92	4/30/2015 10:57	0	0	0	0
95	4/30/2015 10:58	0	0	0	93	4/30/2015 10:58	0	0	0	0
96	4/30/2015 10:59	0	0	0	94	4/30/2015 10:59	0	0	0	0
97	4/30/2015 11:00	0	0	0	95	4/30/2015 11:00	0	0	0	0
98	4/30/2015 11:01	0	0	0	96	4/30/2015 11:01	0	0	0	0
99	4/30/2015 11:02	0	0	0	97	4/30/2015 11:02	0	0	0	0
100	4/30/2015 11:03	0	0	0	98	4/30/2015 11:03	0	0	0	0
101	4/30/2015 11:04	0	0	0	99	4/30/2015 11:04	0	0	0	0
102	4/30/2015 11:05	0	0	0	100	4/30/2015 11:05	0	0	0	0
103	4/30/2015 11:06	0	0	0	101	4/30/2015 11:06	0	0	0	0
104	4/30/2015 11:07	0	0	0	102	4/30/2015 11:07	0	0	0	0
105	4/30/2015 11:08	0	0	0	103	4/30/2015 11:08	0	0	0	0
106	4/30/2015 11:09	0	0	0	104	4/30/2015 11:09	0	0	0	0
107	4/30/2015 11:10	0	0	0	105	4/30/2015 11:10	0	0	0	0
108	4/30/2015 11:11	0	0	0	106	4/30/2015 11:11	0	0	0	0
109	4/30/2015 11:12	0	0	0	107	4/30/2015 11:12	0	0	0	0
110	4/30/2015 11:13	0	0	0	108	4/30/2015 11:13	0	0	0	0
111	4/30/2015 11:14	0	0	0	109	4/30/2015 11:14	0	0	0	0
112	4/30/2015 11:15	0	0	0	110	4/30/2015 11:15	0	0	0	0
113	4/30/2015 11:16	0	0	0	111	4/30/2015 11:16	0	0	0	0
114	4/30/2015 11:17	0	0	0	112	4/30/2015 11:17	0	0	0	0
115	4/30/2015 11:18	0	0	0	113	4/30/2015 11:18	0	0	0	0
116	4/30/2015 11:19	0	0	0	114	4/30/2015 11:19	0	0	0	0
117	4/30/2015 11:20	0	0	0	115	4/30/2015 11:20	0	0	0	0
118	4/30/2015 11:21	0	0	0	116	4/30/2015 11:21	0	0	0	0
119	4/30/2015 11:22	0	0	0	117	4/30/2015 11:22	0	0	0	0
120	4/30/2015 11:23	0	0	0	118	4/30/2015 11:23	0	0	0	0
121	4/30/2015 11:24	0	0	0	119	4/30/2015 11:24	0	0	0	0
122	4/30/2015 11:25	0	0	0	120	4/30/2015 11:25	0	0	0	0
123	4/30/2015 11:26	0	0	0	121	4/30/2015 11:26	0	0	0	0
124	4/30/2015 11:27	0	0	0	122	4/30/2015 11:27	0	0	0	0
125	4/30/2015 11:28	0	0	0	123	4/30/2015 11:28	0	0	0	0
126	4/30/2015 11:29	0	0	0	124	4/30/2015 11:29	0	0	0	0
127	4/30/2015 11:30	0	0	0	125	4/30/2015 11:30	0	0	0	0
128	4/30/2015 11:31	0	0	0	126	4/30/2015 11:31	0	0	0	0
129	4/30/2015 11:32	0	0	0	127	4/30/2015 11:32	0	0	0	0
130	4/30/2015 11:33	0	0	0	128	4/30/2015 11:33	0	0	0	0
131	4/30/2015 11:34	0	0	0	129	4/30/2015 11:34	0	0	0	0
132	4/30/2015 11:35	0	0	0	130	4/30/2015 11:35	0	0	0	0
133	4/30/2015 11:36	0	0	0	131	4/30/2015 11:36	0	0	0	0
134	4/30/2015 11:37	0	0	0	132	4/30/2015 11:37	0	0	0	0

135	4/30/2015 11:38	0	0	0	133	4/30/2015 11:38	0	0	0	0
136	4/30/2015 11:39	0	0	0	134	4/30/2015 11:39	0	0	0	0
137	4/30/2015 11:40	0	0	0	135	4/30/2015 11:40	0	0	0	0
138	4/30/2015 11:41	0	0	0	136	4/30/2015 11:41	0	0	0	0
139	4/30/2015 11:42	0	0	0	137	4/30/2015 11:42	0	0	0	0
140	4/30/2015 11:43	0	0	0	138	4/30/2015 11:43	0	0	0	0
141	4/30/2015 11:44	0	0	0	139	4/30/2015 11:44	0	0	0	0
142	4/30/2015 11:45	0	0	0	140	4/30/2015 11:45	0	0	0	0
143	4/30/2015 11:46	0	0	0	141	4/30/2015 11:46	0	0	0	0
144	4/30/2015 11:47	0	0	0	142	4/30/2015 11:47	0	0	0	0
145	4/30/2015 11:48	0	0	0	143	4/30/2015 11:48	0	0	0	0
146	4/30/2015 11:49	0	0	0	144	4/30/2015 11:49	0	0	0	0
147	4/30/2015 11:50	0	0	0	145	4/30/2015 11:50	0	0	0	0
148	4/30/2015 11:51	0	0	0	146	4/30/2015 11:51	0	0	0	0
149	4/30/2015 11:52	0	0	0	147	4/30/2015 11:52	0	0	0	0
150	4/30/2015 11:53	0	0	0	148	4/30/2015 11:53	0	0	0	0
151	4/30/2015 11:54	0	0	0	149	4/30/2015 11:54	0	0	0	0
152	4/30/2015 11:55	0	0	0	150	4/30/2015 11:55	0	0	0	0
153	4/30/2015 11:56	0	0	0	151	4/30/2015 11:56	0	0	0	0
154	4/30/2015 11:57	0	0	0	152	4/30/2015 11:57	0	0	0	0
155	4/30/2015 11:58	0	0	0	153	4/30/2015 11:58	0	0	0	0
156	4/30/2015 11:59	0	0	0	154	4/30/2015 11:59	0	0	0	0
157	4/30/2015 12:00	0	0	0	155	4/30/2015 12:00	0	0	0	0
158	4/30/2015 12:01	0	0	0	156	4/30/2015 12:01	0	0	0	0
159	4/30/2015 12:02	0	0	0	157	4/30/2015 12:02	0	0	0	0
160	4/30/2015 12:03	0	0	0	158	4/30/2015 12:03	0	0	0	0
161	4/30/2015 12:04	0	0	0	159	4/30/2015 12:04	0	0	0	0
162	4/30/2015 12:05	0	0	0	160	4/30/2015 12:05	0	0	0	0
163	4/30/2015 12:06	0	0	0	161	4/30/2015 12:06	0	0	0	0
164	4/30/2015 12:07	0	0	0	162	4/30/2015 12:07	0	0	0	0
165	4/30/2015 12:08	0	0	0.1	163	4/30/2015 12:08	0	0	0	0
166	4/30/2015 12:09	0	0	0.1	164	4/30/2015 12:09	0	0	0	0
167	4/30/2015 12:10	0	0	0.1	165	4/30/2015 12:10	0	0	0	0
168	4/30/2015 12:11	0	0	0.1	166	4/30/2015 12:11	0	0	0	0
169	4/30/2015 12:12	0	0	0.1	167	4/30/2015 12:12	0	0	0	0
170	4/30/2015 12:13	0	0	0.1	168	4/30/2015 12:13	0	0	0	0
171	4/30/2015 12:14	0	0	0.1	169	4/30/2015 12:14	0	0	0	0
172	4/30/2015 12:15	0	0	0.1	170	4/30/2015 12:15	0	0	0	0
173	4/30/2015 12:16	0	0	0.1	171	4/30/2015 12:16	0	0	0	0
174	4/30/2015 12:17	0.1	0.1	0.1	172	4/30/2015 12:17	0	0	0	-0.1
175	4/30/2015 12:18	0.1	0.1	0.1	173	4/30/2015 12:18	0	0	0	-0.1
176	4/30/2015 12:19	0.1	0.1	0.1	174	4/30/2015 12:19	0	0	0	-0.1
177	4/30/2015 12:20	0.1	0.1	0.1	175	4/30/2015 12:20	0	0	0	-0.1
178	4/30/2015 12:21	0.1	0.1	0.1	176	4/30/2015 12:21	0	0	0	-0.1
179	4/30/2015 12:22	0.1	0.1	0.1	177	4/30/2015 12:22	0	0	0	-0.1
180	4/30/2015 12:23	0.1	0.1	0.1	178	4/30/2015 12:23	0	0	0	-0.1
181	4/30/2015 12:24	0.1	0.1	0.2	179	4/30/2015 12:24	0	0	0	-0.1
182	4/30/2015 12:25	0.1	0.1	0.2	180	4/30/2015 12:25	0	0	0	-0.1
183	4/30/2015 12:26	0.1	0.1	0.2	181	4/30/2015 12:26	0	0	0	-0.1

184	4/30/2015 12:27	0.1	0.1	0.2	182	4/30/2015 12:27	0	0	0	-0.1
185	4/30/2015 12:28	0.1	0.1	0.2	183	4/30/2015 12:28	0	0	0	-0.1
186	4/30/2015 12:29	0.1	0.1	0.1	184	4/30/2015 12:29	0	0	0	-0.1
187	4/30/2015 12:30	0.1	0.1	0.2	185	4/30/2015 12:30	0	0	0	-0.1
188	4/30/2015 12:31	0.1	0.1	0.2	186	4/30/2015 12:31	0	0	0	-0.1
189	4/30/2015 12:32	0.2	0.2	0.2	187	4/30/2015 12:32	0	0	0	-0.2
190	4/30/2015 12:33	0.2	0.2	0.2	188	4/30/2015 12:33	0	0	0	-0.2
191	4/30/2015 12:34	0.2	0.2	0.3	189	4/30/2015 12:34	0	0	0	-0.2
192	4/30/2015 12:35	0.2	0.2	0.3	190	4/30/2015 12:35	0	0	0	-0.2
193	4/30/2015 12:36	0.2	0.2	0.3	191	4/30/2015 12:36	0	0	0	-0.2
194	4/30/2015 12:37	0.2	0.2	0.3	192	4/30/2015 12:37	0	0	0	-0.2
195	4/30/2015 12:38	0.2	0.2	0.3	193	4/30/2015 12:38	0	0	0	-0.2
196	4/30/2015 12:39	0.2	0.2	0.3	194	4/30/2015 12:39	0	0	0	-0.2
197	4/30/2015 12:40	0.2	0.2	0.3	195	4/30/2015 12:40	0	0	0	-0.2
198	4/30/2015 12:41	0.2	0.2	0.3	196	4/30/2015 12:41	0	0	0	-0.2
199	4/30/2015 12:42	0.2	0.2	0.3	197	4/30/2015 12:42	0	0	0	-0.2
200	4/30/2015 12:43	0.2	0.2	0.3	198	4/30/2015 12:43	0	0	0	-0.2
201	4/30/2015 12:44	0.2	0.2	0.3	199	4/30/2015 12:44	0	0	0	-0.2
202	4/30/2015 12:45	0.2	0.2	0.3	200	4/30/2015 12:45	0	0	0	-0.2
203	4/30/2015 12:46	0.2	0.2	0.3	201	4/30/2015 12:46	0	0	0	-0.2
204	4/30/2015 12:47	0.2	0.2	0.3	202	4/30/2015 12:47	0	0	0	-0.2
205	4/30/2015 12:48	0.2	0.2	0.3	203	4/30/2015 12:48	0	0	0	-0.2
206	4/30/2015 12:49	0.2	0.2	0.3	204	4/30/2015 12:49	0	0	0	-0.2
207	4/30/2015 12:50	0.2	0.2	0.2	205	4/30/2015 12:50	0	0	0	-0.2
208	4/30/2015 12:51	0.1	0.1	0.2	206	4/30/2015 12:51	0	0	0	-0.1
209	4/30/2015 12:52	0.2	0.2	0.2	207	4/30/2015 12:52	0	0	0	-0.2
210	4/30/2015 12:53	0.2	0.2	0.2	208	4/30/2015 12:53	0	0	0	-0.2
211	4/30/2015 12:54	0.1	0.1	0.2	209	4/30/2015 12:54	0	0	0	-0.1
212	4/30/2015 12:55	0.1	0.1	0.2	210	4/30/2015 12:55	0	0	0	-0.1
213	4/30/2015 12:56	0.2	0.2	0.2	211	4/30/2015 12:56	0	0	0	-0.2
214	4/30/2015 12:57	0.2	0.2	0.2	212	4/30/2015 12:57	0	0	0	-0.2
215	4/30/2015 12:58	0.1	0.1	0.2	213	4/30/2015 12:58	0	0	0	-0.1
216	4/30/2015 12:59	0.1	0.1	0.2	214	4/30/2015 12:59	0	0	0	-0.1
217	4/30/2015 13:00	0.1	0.1	0.2	215	4/30/2015 13:00	0	0	0	-0.1
218	4/30/2015 13:01	0.1	0.1	0.2	216	4/30/2015 13:01	0	0	0	-0.1
219	4/30/2015 13:02	0.1	0.1	0.2	217	4/30/2015 13:02	0	0	0	-0.1
220	4/30/2015 13:03	0.1	0.1	0.2	218	4/30/2015 13:03	0	0	0	-0.1
221	4/30/2015 13:04	0.1	0.1	0.2	219	4/30/2015 13:04	0	0	0	-0.1
222	4/30/2015 13:05	0.1	0.1	0.2	220	4/30/2015 13:05	0	0	0	-0.1
223	4/30/2015 13:06	0.1	0.1	0.2	221	4/30/2015 13:06	0	0	0	-0.1
224	4/30/2015 13:07	0.1	0.1	0.2	222	4/30/2015 13:07	0	0	0	-0.1
225	4/30/2015 13:08	0.1	0.1	0.2	223	4/30/2015 13:08	0	0	0	-0.1
226	4/30/2015 13:09	0.1	0.1	0.2	224	4/30/2015 13:09	0	0	0	-0.1
227	4/30/2015 13:10	0.1	0.1	0.2	225	4/30/2015 13:10	0	0	0	-0.1
228	4/30/2015 13:11	0.1	0.1	0.2	226	4/30/2015 13:11	0	0	0	-0.1
229	4/30/2015 13:12	0.1	0.1	0.2	227	4/30/2015 13:12	0	0	0	-0.1
230	4/30/2015 13:13	0.1	0.1	0.2	228	4/30/2015 13:13	0	0	0	-0.1
231	4/30/2015 13:14	0.1	0.1	0.2	229	4/30/2015 13:14	0	0	0	-0.1
232	4/30/2015 13:15	0.1	0.1	0.2	230	4/30/2015 13:15	0	0	0	-0.1

233	4/30/2015 13:16	0.1	0.1	0.2	231	4/30/2015 13:16	0	0	0	-0.1
234	4/30/2015 13:17	0	0	0.1	232	4/30/2015 13:17	0	0	0	0
235	4/30/2015 13:18	0	0	0	233	4/30/2015 13:18	0	0	0	0
236	4/30/2015 13:19	0	0	0	234	4/30/2015 13:19	0	0	0	0
237	4/30/2015 13:20	0	0	0	235	4/30/2015 13:20	0	0	0	0
238	4/30/2015 13:21	0	0	0.4	236	4/30/2015 13:21	0	0	0	0
239	4/30/2015 13:22	0	0	0.2	237	4/30/2015 13:22	0	0	0	0
240	4/30/2015 13:23	0	0	0.1	238	4/30/2015 13:23	0	0	0	0
241	4/30/2015 13:24	0	0	0.6	239	4/30/2015 13:24	0	0	0	0
242	4/30/2015 13:25	0	0.1	0.4	240	4/30/2015 13:25	0	0	0	-0.1
243	4/30/2015 13:26	0	0	0.1	241	4/30/2015 13:26	0	0	0	0
244	4/30/2015 13:27	0	0	0	242	4/30/2015 13:27	0	0	0	0
245	4/30/2015 13:28	0	0	0	243	4/30/2015 13:28	0	0	0	0
246	4/30/2015 13:29	0	0	0	244	4/30/2015 13:29	0	0	0	0
247	4/30/2015 13:30	0	0	0	245	4/30/2015 13:30	0	0	0	0
248	4/30/2015 13:31	0	0	0	246	4/30/2015 13:31	0	0	0	0
249	4/30/2015 13:32	0	0	0	247	4/30/2015 13:32	0	0	0	0
250	4/30/2015 13:33	0	0	0	248	4/30/2015 13:33	0	0	0	0
251	4/30/2015 13:34	0	0	0	249	4/30/2015 13:34	0	0	0	0
252	4/30/2015 13:35	0	0	0	250	4/30/2015 13:35	0	0	0	0
253	4/30/2015 13:36	0	0	0	251	4/30/2015 13:36	0	0	0	0
254	4/30/2015 13:37	0	0	0	252	4/30/2015 13:37	0	0	0	0
255	4/30/2015 13:38	0	0	0	253	4/30/2015 13:38	0	0	0	0
256	4/30/2015 13:39	0	0	0	254	4/30/2015 13:39	0	0	0	0
257	4/30/2015 13:40	0	0	0	255	4/30/2015 13:40	0	0	0	0
258	4/30/2015 13:41	0	0	0	256	4/30/2015 13:41	0	0	0	0
259	4/30/2015 13:42	0	0	0	257	4/30/2015 13:42	0	0	0	0
260	4/30/2015 13:43	0	0	0	258	4/30/2015 13:43	0	0	0	0
261	4/30/2015 13:44	0	0	0	259	4/30/2015 13:44	0	0	0	0
262	4/30/2015 13:45	0	0	0	260	4/30/2015 13:45	0	0	0	0
263	4/30/2015 13:46	0	0	0	261	4/30/2015 13:46	0	0	0	0
264	4/30/2015 13:47	0	0	0	262	4/30/2015 13:47	0	0	0	0
265	4/30/2015 13:48	0	0	0	263	4/30/2015 13:48	0	0	0	0
266	4/30/2015 13:49	0	0	0	264	4/30/2015 13:49	0	0	0	0
267	4/30/2015 13:50	0	0	0	265	4/30/2015 13:50	0	0	0	0
268	4/30/2015 13:51	0	0	0	266	4/30/2015 13:51	0	0	0	0
269	4/30/2015 13:52	0	0	0	267	4/30/2015 13:52	0	0	0	0
270	4/30/2015 13:53	0	0	0	268	4/30/2015 13:53	0	0	0	0
271	4/30/2015 13:54	0	0	0	269	4/30/2015 13:54	0	0	0	0
272	4/30/2015 13:55	0	0	0	270	4/30/2015 13:55	0	0	0	0
273	4/30/2015 13:56	0	0	0	271	4/30/2015 13:56	0	0	0	0
274	4/30/2015 13:57	0	0	0	272	4/30/2015 13:57	0	0	0	0
275	4/30/2015 13:58	0	0	0	273	4/30/2015 13:58	0	0	0	0
276	4/30/2015 13:59	0	0	0	274	4/30/2015 13:59	0	0	0	0
277	4/30/2015 14:00	0	0	0	275	4/30/2015 14:00	0	0	0	0
278	4/30/2015 14:01	0	0	0	276	4/30/2015 14:01	0	0	0	0
279	4/30/2015 14:02	0	0	0	277	4/30/2015 14:02	0	0	0	0
280	4/30/2015 14:03	0	0	0	278	4/30/2015 14:03	0	0	0	0
281	4/30/2015 14:04	0	0	0	279	4/30/2015 14:04	0	0	0	0

282	4/30/2015 14:05	0	0	0	280	4/30/2015 14:05	0	0	0	0
283	4/30/2015 14:06	0	0	0	281	4/30/2015 14:06	0	0	0	0
284	4/30/2015 14:07	0	0	0	282	4/30/2015 14:07	0	0	0	0
285	4/30/2015 14:08	0	0	0	283	4/30/2015 14:08	0	0	0	0
286	4/30/2015 14:09	0	0	0	284	4/30/2015 14:09	0	0	0	0
287	4/30/2015 14:10	0	0	0	285	4/30/2015 14:10	0	0	0	0
288	4/30/2015 14:11	0	0	0	286	4/30/2015 14:11	0	0	0	0
289	4/30/2015 14:12	0	0	0	287	4/30/2015 14:12	0	0	0	0
290	4/30/2015 14:13	0	0	0	288	4/30/2015 14:13	0	0	0	0
291	4/30/2015 14:14	0	0	0	289	4/30/2015 14:14	0	0	0	0
292	4/30/2015 14:15	0	0	0	290	4/30/2015 14:15	0	0	0	0
293	4/30/2015 14:16	0	0	0	291	4/30/2015 14:16	0	0	0	0
294	4/30/2015 14:17	0	0	0	292	4/30/2015 14:17	0	0	0	0
295	4/30/2015 14:18	0	0	0.1	293	4/30/2015 14:18	0	0	0	0
296	4/30/2015 14:19	0	0	0	294	4/30/2015 14:19	0	0	0	0
297	4/30/2015 14:20	0	0	0	295	4/30/2015 14:20	0	0	0	0
298	4/30/2015 14:21	0	0	0	296	4/30/2015 14:21	0	0	0	0
299	4/30/2015 14:22	0	0	0	297	4/30/2015 14:22	0	0	0	0
300	4/30/2015 14:23	0	0	0	298	4/30/2015 14:23	0	0	0	0
301	4/30/2015 14:24	0	0	0	299	4/30/2015 14:24	0	0	0	0
302	4/30/2015 14:25	0	0	0	300	4/30/2015 14:25	0	0	0	0
303	4/30/2015 14:26	0	0	0	301	4/30/2015 14:26	0	0	0	0
304	4/30/2015 14:27	0	0	0	302	4/30/2015 14:27	0	0	0	0
305	4/30/2015 14:28	0	0	0	303	4/30/2015 14:28	0	0	0	0
306	4/30/2015 14:29	0	0	0	304	4/30/2015 14:29	0	0	0	0
307	4/30/2015 14:30	0	0	0	305	4/30/2015 14:30	0	0	0	0
308	4/30/2015 14:31	0	0	0	306	4/30/2015 14:31	0	0	0	0
309	4/30/2015 14:32	0	0	0	307	4/30/2015 14:32	0	0	0	0
310	4/30/2015 14:33	0	0	0	308	4/30/2015 14:33	0	0	0	0
311	4/30/2015 14:34	0	0	0	309	4/30/2015 14:34	0	0	0	0
312	4/30/2015 14:35	0	0	0	310	4/30/2015 14:35	0	0	0	0
313	4/30/2015 14:36	0	0	0	311	4/30/2015 14:36	0	0	0	0
314	4/30/2015 14:37	0	0	0	312	4/30/2015 14:37	0	0	0	0
315	4/30/2015 14:38	0	0	0	313	4/30/2015 14:38	0	0	0	0
316	4/30/2015 14:39	0	0	0	314	4/30/2015 14:39	0	0	0	0
317	4/30/2015 14:40	0	0	0	315	4/30/2015 14:40	0	0	0	0
318	4/30/2015 14:41	0	0	0	316	4/30/2015 14:41	0	0	0	0
319	4/30/2015 14:42	0	0	0	317	4/30/2015 14:42	0	0	0	0
320	4/30/2015 14:43	0	0	0	318	4/30/2015 14:43	0	0	0	0
321	4/30/2015 14:44	0	0	0	319	4/30/2015 14:44	0	0	0	0
322	4/30/2015 14:45	0	0	0	320	4/30/2015 14:45	0	0	0	0
323	4/30/2015 14:46	0	0	0	321	4/30/2015 14:46	0	0	0	0
324	4/30/2015 14:47	0	0	0	322	4/30/2015 14:47	0	0	0	0
325	4/30/2015 14:48	0	0	0	323	4/30/2015 14:48	0	0	0	0
326	4/30/2015 14:49	0	0	0	324	4/30/2015 14:49	0	0	0	0
327	4/30/2015 14:50	0	0	0	325	4/30/2015 14:50	0	0	0	0
328	4/30/2015 14:51	0	0	0	326	4/30/2015 14:51	0	0	0	0
329	4/30/2015 14:52	0	0	0	327	4/30/2015 14:52	0	0	0	0
330	4/30/2015 14:53	0	0	0	328	4/30/2015 14:53	0	0	0	0

331	4/30/2015 14:54	0	0	0	329	4/30/2015 14:54	0	0	0	0
332	4/30/2015 14:55	0	0	0	330	4/30/2015 14:55	0	0	0	0
333	4/30/2015 14:56	0	0	0	331	4/30/2015 14:56	0	0	0	0
334	4/30/2015 14:57	0	0	0	332	4/30/2015 14:57	0	0	0	0
335	4/30/2015 14:58	0	0	0	333	4/30/2015 14:58	0	0	0	0
336	4/30/2015 14:59	0	0	0	334	4/30/2015 14:59	0	0	0	0
337	4/30/2015 15:00	0	0	0	335	4/30/2015 15:00	0	0	0	0
338	4/30/2015 15:01	0	0	0	336	4/30/2015 15:01	0	0	0	0
339	4/30/2015 15:02	0	0	0	337	4/30/2015 15:02	0	0	0	0
340	4/30/2015 15:03	0	0	0	338	4/30/2015 15:03	0	0	0	0
341	4/30/2015 15:04	0	0	0	339	4/30/2015 15:04	0	0	0	0
342	4/30/2015 15:05	0	0	0	340	4/30/2015 15:05	0	0	0	0
343	4/30/2015 15:06	0	0	0	341	4/30/2015 15:06	0	0	0	0
344	4/30/2015 15:07	0	0	0	342	4/30/2015 15:07	0	0	0	0
345	4/30/2015 15:08	0	0	0	343	4/30/2015 15:08	0	0	0	0
346	4/30/2015 15:09	0	0	0	344	4/30/2015 15:09	0	0	0	0
347	4/30/2015 15:10	0	0	0	345	4/30/2015 15:10	0	0	0	0
348	4/30/2015 15:11	0	0	0	346	4/30/2015 15:11	0	0	0	0
349	4/30/2015 15:12	0	0	0	347	4/30/2015 15:12	0	0	0	0
350	4/30/2015 15:13	0	0	0	348	4/30/2015 15:13	0	0	0	0
351	4/30/2015 15:14	0	0	0	349	4/30/2015 15:14	0	0	0	0
352	4/30/2015 15:15	0	0	0	350	4/30/2015 15:15	0	0	0	0
353	4/30/2015 15:16	0	0	0	351	4/30/2015 15:16	0	0	0	0
354	4/30/2015 15:17	0	0	0	352	4/30/2015 15:17	0	0	0	0
355	4/30/2015 15:18	0	0	0	353	4/30/2015 15:18	0	0	0	0
356	4/30/2015 15:19	0	0	0	354	4/30/2015 15:19	0	0	0	0
357	4/30/2015 15:20	0	0	0	355	4/30/2015 15:20	0	0	0	0
358	4/30/2015 15:21	0	0	0	356	4/30/2015 15:21	0	0	0	0
359	4/30/2015 15:22	0	0	0	357	4/30/2015 15:22	0	0	0	0
360	4/30/2015 15:23	0	0	0	358	4/30/2015 15:23	0	0	0	0
361	4/30/2015 15:24	0	0	0	359	4/30/2015 15:24	0	0	0	0
362	4/30/2015 15:25	0	0	0.1	360	4/30/2015 15:25	0	0	0	0
363	4/30/2015 15:26	0	0	0	361	4/30/2015 15:26	0	0	0	0
364	4/30/2015 15:27	0	0	0	362	4/30/2015 15:27	0	0	0	0
365	4/30/2015 15:28	0	0	0	363	4/30/2015 15:28	0	0	0	0
366	4/30/2015 15:29	0	0	0	364	4/30/2015 15:29	0	0	0	0
367	4/30/2015 15:30	0	0	0	365	4/30/2015 15:30	0	0	0	0
368	4/30/2015 15:31	0	0	0	366	4/30/2015 15:31	0	0	0	0
369	4/30/2015 15:32	0	0	0	367	4/30/2015 15:32	0	0	0	0
370	4/30/2015 15:33	0	0	0	368	4/30/2015 15:33	0	0	0	0
371	4/30/2015 15:34	0	0	0	369	4/30/2015 15:34	0	0	0	0
372	4/30/2015 15:35	0	0	0	370	4/30/2015 15:35	0	0	0	0
373	4/30/2015 15:36	0	0	0.1	371	4/30/2015 15:36	0	0	0	0
374	4/30/2015 15:37	0	0	0.1	372	4/30/2015 15:37	0	0	0	0
375	4/30/2015 15:38	0	0	0.1	373	4/30/2015 15:38	0	0	0	0
376	4/30/2015 15:39	0.1	0.1	0.1	374	4/30/2015 15:39	0	0	0	-0.1
377	4/30/2015 15:40	0.1	0.1	0.1	375	4/30/2015 15:40	0	0	0	-0.1
378	4/30/2015 15:41	0.1	0.1	0.2	376	4/30/2015 15:41	0	0	0	-0.1
379	4/30/2015 15:42	0.1	0.2	0.5	377	4/30/2015 15:42	0	0	0	-0.2

380	4/30/2015 15:43	0.2	0.2	0.4	378	4/30/2015 15:43	0	0	0	-0.2
381	4/30/2015 15:44	0.2	0.2	0.3	379	4/30/2015 15:44	0	0	0	-0.2
382	4/30/2015 15:45	0.2	0.2	0.3	380	4/30/2015 15:45	0	0	0	-0.2
383	4/30/2015 15:46	0.2	0.4	0.7	381	4/30/2015 15:46	0	0	0	-0.4
384	4/30/2015 15:47	0.2	0.2	0.3	382	4/30/2015 15:47	0	0	0	-0.2
385	4/30/2015 15:48	0.2	0.2	0.2	383	4/30/2015 15:48	0	0	0	-0.2
386	4/30/2015 15:49	0.1	0.1	0.2	384	4/30/2015 15:49	0	0	0	-0.1
387	4/30/2015 15:50	0.1	0.1	0.2	385	4/30/2015 15:50	0	0	0	-0.1
388	4/30/2015 15:51	0.1	0.1	0.2	386	4/30/2015 15:51	0	0	0	-0.1
389	4/30/2015 15:52	0.1	0.1	0.2	387	4/30/2015 15:52	0	0	0	-0.1
390	4/30/2015 15:53	0.1	0.1	0.2	388	4/30/2015 15:53	0	0	0	-0.1
391	4/30/2015 15:54	0.1	0.1	0.2	389	4/30/2015 15:54	0	0	0	-0.1
392	4/30/2015 15:55	0.1	0.1	0.1	390	4/30/2015 15:55	0	0	0	-0.1
393	4/30/2015 15:56	0.1	0.1	0.1	391	4/30/2015 15:56	0	0	0	-0.1
394	4/30/2015 15:57	0.1	0.1	0.2	392	4/30/2015 15:57	0	0	0	-0.1
395	4/30/2015 15:58	0.1	0.1	0.2	393	4/30/2015 15:58	0	0	0	-0.1
396	4/30/2015 15:59	0.1	0.1	0.2	394	4/30/2015 15:59	0	0	0	-0.1
397	4/30/2015 16:00	0.1	0.1	0.2	395	4/30/2015 16:00	0	0	0	-0.1
398	4/30/2015 16:01	0.1	0.1	0.2	396	4/30/2015 16:01	0	0	0	-0.1
399	4/30/2015 16:02	0.1	0.1	0.2	397	4/30/2015 16:02	0	0	0	-0.1
400	4/30/2015 16:03	0.1	0.1	0.2	398	4/30/2015 16:03	0	0	0	-0.1
401	4/30/2015 16:04	0.1	0.1	0.2	399	4/30/2015 16:04	0	0	0	-0.1
402	4/30/2015 16:05	0.1	0.1	0.1	400	4/30/2015 16:05	0	0	0	-0.1
403	4/30/2015 16:06	0.1	0.1	0.1	401	4/30/2015 16:06	0	0	0	-0.1
404	4/30/2015 16:07	0	0	0.1	402	4/30/2015 16:07	0	0	0	0
405	4/30/2015 16:08	0	0	0.1	403	4/30/2015 16:08	0	0	0	0
406	4/30/2015 16:09	0	0	0.1	404	4/30/2015 16:09	0	0	0	0
407	4/30/2015 16:10	0	0	0.1	405	4/30/2015 16:10	0	0	0	0
408	4/30/2015 16:11	0	0	0	406	4/30/2015 16:11	0	0	0	0
409	4/30/2015 16:12	0	0	0	407	4/30/2015 16:12	0	0	0	0
410	4/30/2015 16:13	0	0	0	408	4/30/2015 16:13	0	0	0	0
411	4/30/2015 16:14	0	0	0	409	4/30/2015 16:14	0	0	0	0
412	4/30/2015 16:15	0	0	0	410	4/30/2015 16:15	0	0	0	0
413	4/30/2015 16:16	0	0	0	411	4/30/2015 16:16	0	0	0	0
414	4/30/2015 16:17	0	0	0	412	4/30/2015 16:17	0	0	0	0
415	4/30/2015 16:18	0	0	0	413	4/30/2015 16:18	0	0	0	0
416	4/30/2015 16:19	0	0	0.1	414	4/30/2015 16:19	0	0	0	0
417	4/30/2015 16:20	0	0	0.1	415	4/30/2015 16:20	0	0	0	0
418	4/30/2015 16:21	0	0	0	416	4/30/2015 16:21	0	0	0	0
419	4/30/2015 16:22	0	0	0	417	4/30/2015 16:22	0	0	0	0
420	4/30/2015 16:23	0	0	0	418	4/30/2015 16:23	0	0	0	0
421	4/30/2015 16:24	0	0	0	419	4/30/2015 16:24	0	0	0	0
422	4/30/2015 16:25	0	0	0.1	420	4/30/2015 16:25	0	0	0	0
423	4/30/2015 16:26	0	0	0	421	4/30/2015 16:26	0	0	0	0
424	4/30/2015 16:27	0	0	0	422	4/30/2015 16:27	0	0	0	0
425	4/30/2015 16:28	0	0	0	423	4/30/2015 16:28	0	0	0	0
426	4/30/2015 16:29	0	0	0	424	4/30/2015 16:29	0	0	0	0
427	4/30/2015 16:30	0	0	0	425	4/30/2015 16:30	0	0	0	0
428	4/30/2015 16:31	0	0	0	426	4/30/2015 16:31	0	0	0	0

429	4/30/2015 16:32	0	0	0	427	4/30/2015 16:32	0	0	0	0
430	4/30/2015 16:33	0	0	0	428	4/30/2015 16:33	0	0	0	0
431	4/30/2015 16:34	0	0	0	429	4/30/2015 16:34	0	0	0	0
432	4/30/2015 16:35	0	0	0	430	4/30/2015 16:35	0	0	0	0
433	4/30/2015 16:36	0	0	0	431	4/30/2015 16:36	0	0	0	0
434	4/30/2015 16:37	0	0	0	432	4/30/2015 16:37	0	0	0	0
435	4/30/2015 16:38	0	0	0	433	4/30/2015 16:38	0	0	0	0
436	4/30/2015 16:39	0	0	0	434	4/30/2015 16:39	0	0	0	0
437	4/30/2015 16:40	0	0	0	435	4/30/2015 16:40	0	0	0	0
438	4/30/2015 16:41	0	0	0	436	4/30/2015 16:41	0	0	0	0
439	4/30/2015 16:42	0	0	0	437	4/30/2015 16:42	0	0	0	0
440	4/30/2015 16:43	0	0	0	438	4/30/2015 16:43	0	0	0	0
441	4/30/2015 16:44	0	0	0	439	4/30/2015 16:44	0	0	0	0
442	4/30/2015 16:45	0	0	0	440	4/30/2015 16:45	0	0	0	0
443	4/30/2015 16:46	0	0	0	441	4/30/2015 16:46	0	0	0	0
444	4/30/2015 16:47	0	0	0	442	4/30/2015 16:47	0	0	0	0
445	4/30/2015 16:48	0	0	0	443	4/30/2015 16:48	0	0	0	0
446	4/30/2015 16:49	0	0	0	444	4/30/2015 16:49	0	0	0	0
447	4/30/2015 16:50	0	0	0	445	4/30/2015 16:50	0	0	0	0
448	4/30/2015 16:51	0	0	0	446	4/30/2015 16:51	0	0	0	0
449	4/30/2015 16:52	0	0	0	447	4/30/2015 16:52	0	0	0	0
450	4/30/2015 16:53	0	0	0	448	4/30/2015 16:53	0	0	0	0
451	4/30/2015 16:54	0	0	0	449	4/30/2015 16:54	0	0	0	0
452	4/30/2015 16:55	0	0	0.3	450	4/30/2015 16:55	0	0	0	0
453	4/30/2015 16:56	0	0	0.1	451	4/30/2015 16:56	0	0	0	0
454	4/30/2015 16:57	0	0	0	452	4/30/2015 16:57	0	0	0	0
455	4/30/2015 16:58	0	0	0.2	453	4/30/2015 16:58	0	0	0	0
456	4/30/2015 16:59	0	0	0	454	4/30/2015 16:59	0	0	0	0
457	4/30/2015 17:00	0	0	0	455	4/30/2015 17:00	0	0	0	0
458	4/30/2015 17:01	0	0	0	456	4/30/2015 17:01	0	0	0	0

UPWIND

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013370
User ID: 00000001 Site ID: 00000019
Data Points: 366 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 05/01/2015 07:57

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 005327
User ID: 00000001 Site ID: 00000069
Data Points: 363 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 05/01/2015 07:54

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100	100	100
Low Alarm Levels:	50	50	50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm	Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)	Alarm	**Difference**
1	5/1/2015 10:19	0.2		0.2		0.3		1	5/1/2015 10:19	0		0		0.1		-0.2
2	5/1/2015 10:20	0.2		0.2		0.3		2	5/1/2015 10:20	0		0		0		-0.2
3	5/1/2015 10:21	0.2		0.2		0.3		3	5/1/2015 10:21	0		0		0		-0.2
4	5/1/2015 10:22	0.2		0.2		0.3		4	5/1/2015 10:22	0		0		0		-0.2
5	5/1/2015 10:23	0.2		0.2		0.3		5	5/1/2015 10:23	0		0		0		-0.2
6	5/1/2015 10:24	0.2		0.2		0.4		6	5/1/2015 10:24	0		0		0		-0.2
7	5/1/2015 10:25	0.3		0.3		0.4		7	5/1/2015 10:25	0		0		0		-0.3
8	5/1/2015 10:26	0.3		0.3		0.4		8	5/1/2015 10:26	0		0		0		-0.3
9	5/1/2015 10:27	0.3		0.3		0.4		9	5/1/2015 10:27	0		0		0		-0.3
10	5/1/2015 10:28	0.3		0.3		0.4		10	5/1/2015 10:28	0		0		0		-0.3
11	5/1/2015 10:29	0.3		0.3		0.4		11	5/1/2015 10:29	0		0		0		-0.3
12	5/1/2015 10:30	0.3		0.3		0.4		12	5/1/2015 10:30	0		0		0		-0.3
13	5/1/2015 10:31	0.3		0.3		0.4		13	5/1/2015 10:31	0		0		0		-0.3
14	5/1/2015 10:32	0.3		0.3		0.4		14	5/1/2015 10:32	0		0		0		-0.3
15	5/1/2015 10:33	0.3		0.3		0.4		15	5/1/2015 10:33	0		0		0		-0.3
16	5/1/2015 10:34	0.4		0.4		0.4		16	5/1/2015 10:34	0		0		0		-0.4
17	5/1/2015 10:35	0.3		0.3		0.4		17	5/1/2015 10:35	0		0		0		-0.3
18	5/1/2015 10:36	0.3		0.3		0.4		18	5/1/2015 10:36	0		0		0		-0.3
19	5/1/2015 10:37	0.3		0.3		0.4		19	5/1/2015 10:37	0		0		0		-0.3
20	5/1/2015 10:38	0.3		0.3		0.4		20	5/1/2015 10:38	0		0		0		-0.3
21	5/1/2015 10:39	0.3		0.3		0.4		21	5/1/2015 10:39	0		0		0		-0.3
22	5/1/2015 10:40	0.3		0.3		0.3		22	5/1/2015 10:40	0		0		0		-0.3
23	5/1/2015 10:41	0.2		0.2		0.3		23	5/1/2015 10:41	0		0		0		-0.2
24	5/1/2015 10:42	0.2		0.2		0.3		24	5/1/2015 10:42	0		0		0		-0.2
25	5/1/2015 10:43	0.2		0.2		0.3		25	5/1/2015 10:43	0		0		0		-0.2
26	5/1/2015 10:44	0.2		0.2		0.3		26	5/1/2015 10:44	0		0		0		-0.2
27	5/1/2015 10:45	0.2		0.2		0.3		27	5/1/2015 10:45	0		0		0		-0.2
28	5/1/2015 10:46	0.2		0.2		0.3		28	5/1/2015 10:46	0		0		0		-0.2
29	5/1/2015 10:47	0.2		0.2		0.3		29	5/1/2015 10:47	0		0		0		-0.2
30	5/1/2015 10:48	0.2		0.2		0.3		30	5/1/2015 10:48	0		0		0		-0.2
31	5/1/2015 10:49	0.2		0.2		0.3		31	5/1/2015 10:49	0		0		0		-0.2
32	5/1/2015 10:50	0.2		0.2		0.3		32	5/1/2015 10:50	0		0		0		-0.2
33	5/1/2015 10:51	0.2		0.2		0.2		33	5/1/2015 10:51	0		0		0		-0.2
34	5/1/2015 10:52	0.2		0.2		0.3		34	5/1/2015 10:52	0		0		0		-0.2
35	5/1/2015 10:53	0.2		0.2		0.2		35	5/1/2015 10:53	0		0		0		-0.2
36	5/1/2015 10:54	0.2		0.2		0.3		36	5/1/2015 10:54	0		0		0		-0.2

37	5/1/2015 10:55	0.2	0.2	0.3	37	5/1/2015 10:55	0	0	0	-0.2
38	5/1/2015 10:56	0.2	0.2	0.3	38	5/1/2015 10:56	0	0	0	-0.2
39	5/1/2015 10:57	0.2	0.2	0.2	39	5/1/2015 10:57	0	0	0	-0.2
40	5/1/2015 10:58	0.2	0.2	0.3	40	5/1/2015 10:58	0	0	0	-0.2
41	5/1/2015 10:59	0.2	0.2	0.2	41	5/1/2015 10:59	0	0	0	-0.2
42	5/1/2015 11:00	0.2	0.2	0.3	42	5/1/2015 11:00	0	0	0	-0.2
43	5/1/2015 11:01	0.1	0.1	0.2	43	5/1/2015 11:01	0	0	0	-0.1
44	5/1/2015 11:02	0.2	0.2	0.2	44	5/1/2015 11:02	0	0	0	-0.2
45	5/1/2015 11:03	0.2	0.2	0.2	45	5/1/2015 11:03	0	0	0	-0.2
46	5/1/2015 11:04	0.2	0.2	0.2	46	5/1/2015 11:04	0	0	0	-0.2
47	5/1/2015 11:05	0.1	0.2	0.3	47	5/1/2015 11:05	0	0	0	-0.2
48	5/1/2015 11:06	0.2	0.2	0.2	48	5/1/2015 11:06	0	0	0	-0.2
49	5/1/2015 11:07	0.2	0.2	0.2	49	5/1/2015 11:07	0	0	0	-0.2
50	5/1/2015 11:08	0.1	0.1	0.2	50	5/1/2015 11:08	0	0	0	-0.1
51	5/1/2015 11:09	0.1	0.1	0.2	51	5/1/2015 11:09	0	0	0	-0.1
52	5/1/2015 11:10	0.2	0.2	0.2	52	5/1/2015 11:10	0	0	0	-0.2
53	5/1/2015 11:11	0.1	0.1	0.2	53	5/1/2015 11:11	0	0	0	-0.1
54	5/1/2015 11:12	0.2	0.2	0.2	54	5/1/2015 11:12	0	0	0	-0.2
55	5/1/2015 11:13	0.2	0.2	0.3	55	5/1/2015 11:13	0	0	0	-0.2
56	5/1/2015 11:14	0.2	0.2	0.2	56	5/1/2015 11:14	0	0	0	-0.2
57	5/1/2015 11:15	0.2	0.2	0.2	57	5/1/2015 11:15	0	0	0	-0.2
58	5/1/2015 11:16	0.2	0.2	0.2	58	5/1/2015 11:16	0	0	0	-0.2
59	5/1/2015 11:17	0.2	0.2	0.2	59	5/1/2015 11:17	0	0	0	-0.2
60	5/1/2015 11:18	0.2	0.2	0.2	60	5/1/2015 11:18	0	0	0	-0.2
61	5/1/2015 11:19	0.2	0.2	0.2	61	5/1/2015 11:19	0	0	0	-0.2
62	5/1/2015 11:20	0.2	0.2	0.2	62	5/1/2015 11:20	0	0	0	-0.2
63	5/1/2015 11:21	0.2	0.2	0.3	63	5/1/2015 11:21	0	0	0	-0.2
64	5/1/2015 11:22	0.2	0.2	0.2	64	5/1/2015 11:22	0	0	0	-0.2
65	5/1/2015 11:23	0.2	0.2	0.2	65	5/1/2015 11:23	0	0	0	-0.2
66	5/1/2015 11:24	0.2	0.2	0.2	66	5/1/2015 11:24	0	0	0	-0.2
67	5/1/2015 11:25	0.2	0.2	0.2	67	5/1/2015 11:25	0	0	0	-0.2
68	5/1/2015 11:26	0.2	0.2	0.2	68	5/1/2015 11:26	0	0	0	-0.2
69	5/1/2015 11:27	0.2	0.2	0.2	69	5/1/2015 11:27	0	0	0	-0.2
70	5/1/2015 11:28	0.2	0.2	0.2	70	5/1/2015 11:28	0	0	0	-0.2
71	5/1/2015 11:29	0.2	0.2	0.3	71	5/1/2015 11:29	0	0	0	-0.2
72	5/1/2015 11:30	0.2	0.2	0.3	72	5/1/2015 11:30	0	0	0	-0.2
73	5/1/2015 11:31	0.2	0.2	0.3	73	5/1/2015 11:31	0	0	0	-0.2
74	5/1/2015 11:32	0.2	0.2	0.3	74	5/1/2015 11:32	0	0	0	-0.2
75	5/1/2015 11:33	0.2	0.2	0.3	75	5/1/2015 11:33	0	0	0	-0.2
76	5/1/2015 11:34	0.2	0.2	0.3	76	5/1/2015 11:34	0	0	0	-0.2
77	5/1/2015 11:35	0.2	0.2	0.3	77	5/1/2015 11:35	0	0	0	-0.2
78	5/1/2015 11:36	0.3	0.3	0.4	78	5/1/2015 11:36	0	0	0	-0.3
79	5/1/2015 11:37	0.2	0.2	0.3	79	5/1/2015 11:37	0	0	0	-0.2
80	5/1/2015 11:38	0.2	0.2	0.3	80	5/1/2015 11:38	0	0	0	-0.2
81	5/1/2015 11:39	0.2	0.2	0.3	81	5/1/2015 11:39	0	0	0	-0.2
82	5/1/2015 11:40	0.2	0.2	0.3	82	5/1/2015 11:40	0	0	0	-0.2
83	5/1/2015 11:41	0.2	0.2	0.3	83	5/1/2015 11:41	0	0	0	-0.2
84	5/1/2015 11:42	0.2	0.2	0.4	84	5/1/2015 11:42	0	0	0	-0.2
85	5/1/2015 11:43	0.3	0.3	0.3	85	5/1/2015 11:43	0	0	0	-0.3

86	5/1/2015 11:44	0.3	0.3	0.4	86	5/1/2015 11:44	0	0	0	-0.3
87	5/1/2015 11:45	0.2	0.2	0.3	87	5/1/2015 11:45	0	0	0	-0.2
88	5/1/2015 11:46	0.2	0.2	0.3	88	5/1/2015 11:46	0	0	0	-0.2
89	5/1/2015 11:47	0.2	0.2	0.3	89	5/1/2015 11:47	0	0	0	-0.2
90	5/1/2015 11:48	0.3	0.3	0.4	90	5/1/2015 11:48	0	0	0	-0.3
91	5/1/2015 11:49	0.2	0.2	0.3	91	5/1/2015 11:49	0	0	0	-0.2
92	5/1/2015 11:50	0.3	0.3	0.4	92	5/1/2015 11:50	0	0	0	-0.3
93	5/1/2015 11:51	0.3	0.3	0.4	93	5/1/2015 11:51	0	0	0	-0.3
94	5/1/2015 11:52	0.3	0.3	0.4	94	5/1/2015 11:52	0	0	0	-0.3
95	5/1/2015 11:53	0.3	0.3	0.4	95	5/1/2015 11:53	0	0	0	-0.3
96	5/1/2015 11:54	0.2	0.3	0.4	96	5/1/2015 11:54	0	0	0	-0.3
97	5/1/2015 11:55	0.3	0.3	0.4	97	5/1/2015 11:55	0	0	0	-0.3
98	5/1/2015 11:56	0.3	0.3	0.4	98	5/1/2015 11:56	0	0	0	-0.3
99	5/1/2015 11:57	0.3	0.3	0.4	99	5/1/2015 11:57	0	0	0	-0.3
100	5/1/2015 11:58	0.3	0.3	0.4	100	5/1/2015 11:58	0	0	0	-0.3
101	5/1/2015 11:59	0.3	0.3	0.3	101	5/1/2015 11:59	0	0	0	-0.3
102	5/1/2015 12:00	0.3	0.3	0.3	102	5/1/2015 12:00	0	0	0	-0.3
103	5/1/2015 12:01	0.3	0.3	0.3	103	5/1/2015 12:01	0	0	0	-0.3
104	5/1/2015 12:02	0.3	0.3	0.4	104	5/1/2015 12:02	0	0	0	-0.3
105	5/1/2015 12:03	0.2	0.2	0.3	105	5/1/2015 12:03	0	0	0	-0.2
106	5/1/2015 12:04	0.2	0.2	0.3	106	5/1/2015 12:04	0	0	0	-0.2
107	5/1/2015 12:05	0.2	0.2	0.3	107	5/1/2015 12:05	0	0	0	-0.2
108	5/1/2015 12:06	0.2	0.2	0.3	108	5/1/2015 12:06	0	0	0	-0.2
109	5/1/2015 12:07	0.2	0.2	0.3	109	5/1/2015 12:07	0	0	0	-0.2
110	5/1/2015 12:08	0.2	0.2	0.3	110	5/1/2015 12:08	0	0	0	-0.2
111	5/1/2015 12:09	0.2	0.2	0.3	111	5/1/2015 12:09	0	0	0	-0.2
112	5/1/2015 12:10	0.2	0.2	0.4	112	5/1/2015 12:10	0	0	0	-0.2
113	5/1/2015 12:11	0.2	0.2	0.4	113	5/1/2015 12:11	0	0	0	-0.2
114	5/1/2015 12:12	0.2	0.3	0.4	114	5/1/2015 12:12	0	0	0	-0.3
115	5/1/2015 12:13	0.2	0.3	0.4	115	5/1/2015 12:13	0	0	0	-0.3
116	5/1/2015 12:14	0.2	0.3	0.4	116	5/1/2015 12:14	0	0	0	-0.3
117	5/1/2015 12:15	0.2	0.2	0.4	117	5/1/2015 12:15	0	0	0	-0.2
118	5/1/2015 12:16	0.3	0.3	0.3	118	5/1/2015 12:16	0	0	0	-0.3
119	5/1/2015 12:17	0.2	0.2	0.3	119	5/1/2015 12:17	0	0	0	-0.2
120	5/1/2015 12:18	0.2	0.2	0.3	120	5/1/2015 12:18	0	0	0	-0.2
121	5/1/2015 12:19	0.2	0.2	0.3	121	5/1/2015 12:19	0	0	0	-0.2
122	5/1/2015 12:20	0.2	0.2	0.3	122	5/1/2015 12:20	0	0	0	-0.2
123	5/1/2015 12:21	0.2	0.2	0.3	123	5/1/2015 12:21	0	0	0	-0.2
124	5/1/2015 12:22	0.2	0.2	0.3	124	5/1/2015 12:22	0	0	0	-0.2
125	5/1/2015 12:23	0.2	0.2	0.3	125	5/1/2015 12:23	0	0	0	-0.2
126	5/1/2015 12:24	0.2	0.2	0.3	126	5/1/2015 12:24	0	0	0	-0.2
127	5/1/2015 12:25	0.2	0.2	0.3	127	5/1/2015 12:25	0	0	0	-0.2
128	5/1/2015 12:26	0.2	0.2	0.3	128	5/1/2015 12:26	0	0	0	-0.2
129	5/1/2015 12:27	0.2	0.2	0.3	129	5/1/2015 12:27	0	0	0	-0.2
130	5/1/2015 12:28	0.3	0.3	0.4	130	5/1/2015 12:28	0	0	0	-0.3
131	5/1/2015 12:29	0.3	0.3	0.4	131	5/1/2015 12:29	0	0	0	-0.3
132	5/1/2015 12:30	0.3	0.3	0.4	132	5/1/2015 12:30	0	0	0	-0.3
133	5/1/2015 12:31	0.2	0.2	0.3	133	5/1/2015 12:31	0	0	0	-0.2
134	5/1/2015 12:32	0.2	0.2	0.3	134	5/1/2015 12:32	0	0	0	-0.2

135	5/1/2015 12:33	0.2	0.2	0.3	135	5/1/2015 12:33	0	0	0	-0.2
136	5/1/2015 12:34	0.2	0.2	0.2	136	5/1/2015 12:34	0	0	0	-0.2
137	5/1/2015 12:35	0.2	0.2	0.3	137	5/1/2015 12:35	0	0	0	-0.2
138	5/1/2015 12:36	0.2	0.2	0.3	138	5/1/2015 12:36	0	0	0	-0.2
139	5/1/2015 12:37	0.2	0.2	0.3	139	5/1/2015 12:37	0	0	0	-0.2
140	5/1/2015 12:38	0.2	0.2	0.3	140	5/1/2015 12:38	0	0	0	-0.2
141	5/1/2015 12:39	0.2	0.2	0.3	141	5/1/2015 12:39	0	0	0	-0.2
142	5/1/2015 12:40	0.2	0.2	0.3	142	5/1/2015 12:40	0	0	0	-0.2
143	5/1/2015 12:41	0.2	0.2	0.3	143	5/1/2015 12:41	0	0	0	-0.2
144	5/1/2015 12:42	0.2	0.2	0.2	144	5/1/2015 12:42	0	0	0	-0.2
145	5/1/2015 12:43	0.2	0.2	0.2	145	5/1/2015 12:43	0	0	0	-0.2
146	5/1/2015 12:44	0.2	0.2	0.2	146	5/1/2015 12:44	0	0	0	-0.2
147	5/1/2015 12:45	0.2	0.2	0.2	147	5/1/2015 12:45	0	0	0	-0.2
148	5/1/2015 12:46	0.2	0.2	0.2	148	5/1/2015 12:46	0	0	0	-0.2
149	5/1/2015 12:47	0.1	0.1	0.2	149	5/1/2015 12:47	0	0	0	-0.1
150	5/1/2015 12:48	0.2	0.2	0.2	150	5/1/2015 12:48	0	0	0	-0.2
151	5/1/2015 12:49	0.2	0.2	0.2	151	5/1/2015 12:49	0	0	0	-0.2
152	5/1/2015 12:50	0.2	0.2	0.2	152	5/1/2015 12:50	0	0	0	-0.2
153	5/1/2015 12:51	0.2	0.2	0.2	153	5/1/2015 12:51	0	0	0	-0.2
154	5/1/2015 12:52	0.2	0.2	0.2	154	5/1/2015 12:52	0	0	0	-0.2
155	5/1/2015 12:53	0.2	0.2	0.2	155	5/1/2015 12:53	0	0	0	-0.2
156	5/1/2015 12:54	0.2	0.2	0.2	156	5/1/2015 12:54	0	0	0	-0.2
157	5/1/2015 12:55	0.2	0.2	0.2	157	5/1/2015 12:55	0	0	0	-0.2
158	5/1/2015 12:56	0.2	0.2	0.2	158	5/1/2015 12:56	0	0	0	-0.2
159	5/1/2015 12:57	0.2	0.2	0.2	159	5/1/2015 12:57	0	0	0	-0.2
160	5/1/2015 12:58	0.2	0.2	0.3	160	5/1/2015 12:58	0	0	0	-0.2
161	5/1/2015 12:59	0.2	0.2	0.3	161	5/1/2015 12:59	0	0	0	-0.2
162	5/1/2015 13:00	0.2	0.2	0.3	162	5/1/2015 13:00	0	0	0	-0.2
163	5/1/2015 13:01	0.2	0.2	0.2	163	5/1/2015 13:01	0	0	0	-0.2
164	5/1/2015 13:02	0.2	0.2	0.3	164	5/1/2015 13:02	0	0	0	-0.2
165	5/1/2015 13:03	0.2	0.2	0.3	165	5/1/2015 13:03	0	0	0	-0.2
166	5/1/2015 13:04	0.2	0.2	0.3	166	5/1/2015 13:04	0	0	0	-0.2
167	5/1/2015 13:05	0.2	0.2	0.2	167	5/1/2015 13:05	0	0	0	-0.2
168	5/1/2015 13:06	0.2	0.2	0.2	168	5/1/2015 13:06	0	0	0	-0.2
169	5/1/2015 13:07	0.2	0.2	0.3	169	5/1/2015 13:07	0	0	0	-0.2
170	5/1/2015 13:08	0.2	0.2	0.3	170	5/1/2015 13:08	0	0	0	-0.2
171	5/1/2015 13:09	0.2	0.2	0.3	171	5/1/2015 13:09	0	0	0	-0.2
172	5/1/2015 13:10	0.2	0.2	0.3	172	5/1/2015 13:10	0	0	0	-0.2
173	5/1/2015 13:11	0.2	0.2	0.3	173	5/1/2015 13:11	0	0	0	-0.2
174	5/1/2015 13:12	0.2	0.2	0.3	174	5/1/2015 13:12	0	0	0	-0.2
175	5/1/2015 13:13	0.2	0.2	0.3	175	5/1/2015 13:13	0	0	0	-0.2
176	5/1/2015 13:14	0.2	0.2	0.3	176	5/1/2015 13:14	0	0	0	-0.2
177	5/1/2015 13:15	0.2	0.2	0.3	177	5/1/2015 13:15	0	0	0	-0.2
178	5/1/2015 13:16	0.2	0.2	0.3	178	5/1/2015 13:16	0	0	0	-0.2
179	5/1/2015 13:17	0.2	0.2	0.3	179	5/1/2015 13:17	0	0	0	-0.2
180	5/1/2015 13:18	0.2	0.2	0.3	180	5/1/2015 13:18	0	0	0	-0.2
181	5/1/2015 13:19	0.2	0.2	0.3	181	5/1/2015 13:19	0	0	0	-0.2
182	5/1/2015 13:20	0.2	0.2	0.3	182	5/1/2015 13:20	0	0	0	-0.2
183	5/1/2015 13:21	0.2	0.2	0.3	183	5/1/2015 13:21	0	0	0	-0.2

184	5/1/2015 13:22	0.2	0.2	0.3	184	5/1/2015 13:22	0	0	0	-0.2
185	5/1/2015 13:23	0.2	0.2	0.3	185	5/1/2015 13:23	0	0	0	-0.2
186	5/1/2015 13:24	0.2	0.2	0.3	186	5/1/2015 13:24	0	0	0	-0.2
187	5/1/2015 13:25	0.2	0.2	0.3	187	5/1/2015 13:25	0	0	0	-0.2
188	5/1/2015 13:26	0.2	0.2	0.3	188	5/1/2015 13:26	0	0	0	-0.2
189	5/1/2015 13:27	0.2	0.2	0.3	189	5/1/2015 13:27	0	0	0	-0.2
190	5/1/2015 13:28	0.2	0.2	0.3	190	5/1/2015 13:28	0	0	0	-0.2
191	5/1/2015 13:29	0.2	0.2	0.3	191	5/1/2015 13:29	0	0	0	-0.2
192	5/1/2015 13:30	0.2	0.2	0.3	192	5/1/2015 13:30	0	0	0	-0.2
193	5/1/2015 13:31	0.2	0.2	0.3	193	5/1/2015 13:31	0	0	0	-0.2
194	5/1/2015 13:32	0.2	0.2	0.3	194	5/1/2015 13:32	0	0	0	-0.2
195	5/1/2015 13:33	0.2	0.2	0.3	195	5/1/2015 13:33	0	0	0	-0.2
196	5/1/2015 13:34	0.2	0.2	0.3	196	5/1/2015 13:34	0	0	0	-0.2
197	5/1/2015 13:35	0.2	0.2	0.3	197	5/1/2015 13:35	0	0	0	-0.2
198	5/1/2015 13:36	0.2	0.2	0.3	198	5/1/2015 13:36	0	0	0	-0.2
199	5/1/2015 13:37	0.2	0.2	0.3	199	5/1/2015 13:37	0	0	0	-0.2
200	5/1/2015 13:38	0.2	0.2	0.3	200	5/1/2015 13:38	0	0	0	-0.2
201	5/1/2015 13:39	0.2	0.2	0.3	201	5/1/2015 13:39	0	0	0	-0.2
202	5/1/2015 13:40	0.2	0.2	0.3	202	5/1/2015 13:40	0	0	0	-0.2
203	5/1/2015 13:41	0.2	0.2	0.3	203	5/1/2015 13:41	0	0	0	-0.2
204	5/1/2015 13:42	0.2	0.2	0.3	204	5/1/2015 13:42	0	0	0	-0.2
205	5/1/2015 13:43	0.2	0.2	0.3	205	5/1/2015 13:43	0	0	0	-0.2
206	5/1/2015 13:44	0.2	0.2	0.3	206	5/1/2015 13:44	0	0	0	-0.2
207	5/1/2015 13:45	0.2	0.2	0.3	207	5/1/2015 13:45	0	0	0	-0.2
208	5/1/2015 13:46	0.2	0.2	0.3	208	5/1/2015 13:46	0	0	0	-0.2
209	5/1/2015 13:47	0.2	0.2	0.3	209	5/1/2015 13:47	0	0	0	-0.2
210	5/1/2015 13:48	0.2	0.2	0.3	210	5/1/2015 13:48	0	0	0	-0.2
211	5/1/2015 13:49	0.2	0.2	0.3	211	5/1/2015 13:49	0	0	0	-0.2
212	5/1/2015 13:50	0.2	0.2	0.3	212	5/1/2015 13:50	0	0	0	-0.2
213	5/1/2015 13:51	0.3	0.3	0.3	213	5/1/2015 13:51	0	0	0	-0.3
214	5/1/2015 13:52	0.2	0.2	0.3	214	5/1/2015 13:52	0	0	0	-0.2
215	5/1/2015 13:53	0.3	0.3	0.3	215	5/1/2015 13:53	0	0	0	-0.3
216	5/1/2015 13:54	0.3	0.3	0.3	216	5/1/2015 13:54	0	0	0	-0.3
217	5/1/2015 13:55	0.3	0.3	0.3	217	5/1/2015 13:55	0	0	0	-0.3
218	5/1/2015 13:56	0.3	0.3	0.3	218	5/1/2015 13:56	0	0	0	-0.3
219	5/1/2015 13:57	0.3	0.3	0.3	219	5/1/2015 13:57	0	0	0	-0.3
220	5/1/2015 13:58	0.2	0.2	0.3	220	5/1/2015 13:58	0	0	0	-0.2
221	5/1/2015 13:59	0.3	0.3	0.3	221	5/1/2015 13:59	0	0	0	-0.3
222	5/1/2015 14:00	0.2	0.2	0.3	222	5/1/2015 14:00	0	0	0	-0.2
223	5/1/2015 14:01	0.2	0.2	0.3	223	5/1/2015 14:01	0	0	0	-0.2
224	5/1/2015 14:02	0.2	0.2	0.3	224	5/1/2015 14:02	0	0	0	-0.2
225	5/1/2015 14:03	0.2	0.2	0.3	225	5/1/2015 14:03	0	0	0	-0.2
226	5/1/2015 14:04	0.2	0.2	0.3	226	5/1/2015 14:04	0	0	0	-0.2
227	5/1/2015 14:05	0.2	0.2	0.4	227	5/1/2015 14:05	0	0	0	-0.2
228	5/1/2015 14:06	0.2	0.2	0.3	228	5/1/2015 14:06	0	0	0	-0.2
229	5/1/2015 14:07	0.2	0.2	0.3	229	5/1/2015 14:07	0	0	0	-0.2
230	5/1/2015 14:08	0.2	0.2	0.3	230	5/1/2015 14:08	0	0	0	-0.2
231	5/1/2015 14:09	0.2	0.2	0.3	231	5/1/2015 14:09	0	0	0	-0.2
232	5/1/2015 14:10	0.2	0.2	0.3	232	5/1/2015 14:10	0	0	0	-0.2

233	5/1/2015 14:11	0.2	0.2	0.3	233	5/1/2015 14:11	0	0	0	-0.2
234	5/1/2015 14:12	0.2	0.2	0.3	234	5/1/2015 14:12	0	0	0	-0.2
235	5/1/2015 14:13	0.2	0.2	0.3	235	5/1/2015 14:13	0	0	0	-0.2
236	5/1/2015 14:14	0.2	0.2	0.3	236	5/1/2015 14:14	0	0	0	-0.2
237	5/1/2015 14:15	0.2	0.2	0.3	237	5/1/2015 14:15	0	0	0	-0.2
238	5/1/2015 14:16	0.2	0.2	0.3	238	5/1/2015 14:16	0	0	0	-0.2
239	5/1/2015 14:17	0.2	0.2	0.3	239	5/1/2015 14:17	0	0	0	-0.2
240	5/1/2015 14:18	0.2	0.2	0.3	240	5/1/2015 14:18	0	0	0	-0.2
241	5/1/2015 14:19	0.2	0.2	0.3	241	5/1/2015 14:19	0	0	0	-0.2
242	5/1/2015 14:20	0.2	0.2	0.4	242	5/1/2015 14:20	0	0	0	-0.2
243	5/1/2015 14:21	0.2	0.2	0.4	243	5/1/2015 14:21	0	0	0	-0.2
244	5/1/2015 14:22	0.3	0.3	0.3	244	5/1/2015 14:22	0	0	0	-0.3
245	5/1/2015 14:23	0.3	0.3	0.3	245	5/1/2015 14:23	0	0	0	-0.3
246	5/1/2015 14:24	0.3	0.3	0.3	246	5/1/2015 14:24	0	0	0	-0.3
247	5/1/2015 14:25	0.2	0.3	0.4	247	5/1/2015 14:25	0	0	0	-0.3
248	5/1/2015 14:26	0.3	0.3	0.4	248	5/1/2015 14:26	0	0	0	-0.3
249	5/1/2015 14:27	0.3	0.3	0.4	249	5/1/2015 14:27	0	0	0	-0.3
250	5/1/2015 14:28	0.3	0.3	0.4	250	5/1/2015 14:28	0	0	0	-0.3
251	5/1/2015 14:29	0.3	0.3	0.4	251	5/1/2015 14:29	0	0	0	-0.3
252	5/1/2015 14:30	0.3	0.3	0.4	252	5/1/2015 14:30	0	0	0	-0.3
253	5/1/2015 14:31	0.3	0.3	0.3	253	5/1/2015 14:31	0	0	0	-0.3
254	5/1/2015 14:32	0.2	0.2	0.3	254	5/1/2015 14:32	0	0	0	-0.2
255	5/1/2015 14:33	0.2	0.2	0.3	255	5/1/2015 14:33	0	0	0	-0.2
256	5/1/2015 14:34	0.2	0.2	0.3	256	5/1/2015 14:34	0	0	0	-0.2
257	5/1/2015 14:35	0.2	0.2	0.3	257	5/1/2015 14:35	0	0	0	-0.2
258	5/1/2015 14:36	0.2	0.2	0.3	258	5/1/2015 14:36	0	0	0	-0.2
259	5/1/2015 14:37	0.2	0.2	0.3	259	5/1/2015 14:37	0	0	0	-0.2
260	5/1/2015 14:38	0.2	0.2	0.3	260	5/1/2015 14:38	0	0	0	-0.2
261	5/1/2015 14:39	0.3	0.3	0.4	261	5/1/2015 14:39	0	0	0	-0.3
262	5/1/2015 14:40	0.3	0.3	0.4	262	5/1/2015 14:40	0	0	0	-0.3
263	5/1/2015 14:41	0.3	0.3	0.4	263	5/1/2015 14:41	0	0	0	-0.3
264	5/1/2015 14:42	0.3	0.3	0.4	264	5/1/2015 14:42	0	0	0	-0.3
265	5/1/2015 14:43	0.3	0.3	0.4	265	5/1/2015 14:43	0	0	0	-0.3
266	5/1/2015 14:44	0.3	0.3	0.3	266	5/1/2015 14:44	0	0	0	-0.3
267	5/1/2015 14:45	0.3	0.3	0.3	267	5/1/2015 14:45	0	0	0	-0.3
268	5/1/2015 14:46	0.3	0.3	0.4	268	5/1/2015 14:46	0	0	0	-0.3
269	5/1/2015 14:47	0.3	0.3	0.4	269	5/1/2015 14:47	0	0	0	-0.3
270	5/1/2015 14:48	0.3	0.3	0.3	270	5/1/2015 14:48	0	0	0	-0.3
271	5/1/2015 14:49	0.3	0.3	0.3	271	5/1/2015 14:49	0	0	0	-0.3
272	5/1/2015 14:50	0.3	0.3	0.4	272	5/1/2015 14:50	0	0	0	-0.3
273	5/1/2015 14:51	0.3	0.3	0.3	273	5/1/2015 14:51	0	0	0	-0.3
274	5/1/2015 14:52	0.2	0.2	0.3	274	5/1/2015 14:52	0	0	0	-0.2
275	5/1/2015 14:53	0.2	0.2	0.3	275	5/1/2015 14:53	0	0	0	-0.2
276	5/1/2015 14:54	0.2	0.2	0.3	276	5/1/2015 14:54	0	0	0	-0.2
277	5/1/2015 14:55	0.2	0.2	0.3	277	5/1/2015 14:55	0	0	0	-0.2
278	5/1/2015 14:56	0.2	0.2	0.2	278	5/1/2015 14:56	0	0	0	-0.2
279	5/1/2015 14:57	0.2	0.2	0.2	279	5/1/2015 14:57	0	0	0	-0.2
280	5/1/2015 14:58	0.2	0.2	0.3	280	5/1/2015 14:58	0	0	0	-0.2
281	5/1/2015 14:59	0.2	0.2	0.3	281	5/1/2015 14:59	0	0	0	-0.2

282	5/1/2015 15:00	0.3	0.3	0.3	282	5/1/2015 15:00	0	0	0	-0.3
283	5/1/2015 15:01	0.3	0.3	0.4	283	5/1/2015 15:01	0	0	0	-0.3
284	5/1/2015 15:02	0.3	0.3	0.4	284	5/1/2015 15:02	0	0	0	-0.3
285	5/1/2015 15:03	0.3	0.3	0.4	285	5/1/2015 15:03	0	0	0	-0.3
286	5/1/2015 15:04	0.3	0.3	0.4	286	5/1/2015 15:04	0	0	0	-0.3
287	5/1/2015 15:05	0.3	0.3	0.4	287	5/1/2015 15:05	0	0	0	-0.3
288	5/1/2015 15:06	0.3	0.3	0.4	288	5/1/2015 15:06	0	0	0	-0.3
289	5/1/2015 15:07	0.3	0.3	0.4	289	5/1/2015 15:07	0	0	0	-0.3
290	5/1/2015 15:08	0.3	0.3	0.3	290	5/1/2015 15:08	0	0	0	-0.3
291	5/1/2015 15:09	0.3	0.3	0.3	291	5/1/2015 15:09	0	0	0	-0.3
292	5/1/2015 15:10	0.3	0.3	0.3	292	5/1/2015 15:10	0	0	0	-0.3
293	5/1/2015 15:11	0.3	0.3	0.3	293	5/1/2015 15:11	0	0	0	-0.3
294	5/1/2015 15:12	0.2	0.2	0.3	294	5/1/2015 15:12	0	0	0	-0.2
295	5/1/2015 15:13	0.2	0.2	0.3	295	5/1/2015 15:13	0	0	0	-0.2
296	5/1/2015 15:14	0.2	0.2	0.3	296	5/1/2015 15:14	0	0	0	-0.2
297	5/1/2015 15:15	0.2	0.2	0.3	297	5/1/2015 15:15	0	0	0	-0.2
298	5/1/2015 15:16	0.2	0.2	0.3	298	5/1/2015 15:16	0	0	0	-0.2
299	5/1/2015 15:17	0.2	0.2	0.3	299	5/1/2015 15:17	0	0	0	-0.2
300	5/1/2015 15:18	0.2	0.2	0.3	300	5/1/2015 15:18	0	0	0	-0.2
301	5/1/2015 15:19	0.2	0.2	0.3	301	5/1/2015 15:19	0	0	0	-0.2
302	5/1/2015 15:20	0.2	0.2	0.3	302	5/1/2015 15:20	0	0	0	-0.2
303	5/1/2015 15:21	0.2	0.2	0.3	303	5/1/2015 15:21	0	0	0	-0.2
304	5/1/2015 15:22	0.2	0.2	0.3	304	5/1/2015 15:22	0	0	0	-0.2
305	5/1/2015 15:23	0.2	0.2	0.3	305	5/1/2015 15:23	0	0	0	-0.2
306	5/1/2015 15:24	0.2	0.2	0.3	306	5/1/2015 15:24	0	0	0	-0.2
307	5/1/2015 15:25	0.2	0.2	0.3	307	5/1/2015 15:25	0	0	0	-0.2
308	5/1/2015 15:26	0.2	0.2	0.3	308	5/1/2015 15:26	0	0	0	-0.2
309	5/1/2015 15:27	0.2	0.2	0.3	309	5/1/2015 15:27	0	0	0	-0.2
310	5/1/2015 15:28	0.2	0.2	0.3	310	5/1/2015 15:28	0	0	0	-0.2
311	5/1/2015 15:29	0.2	0.2	0.3	311	5/1/2015 15:29	0	0	0	-0.2
312	5/1/2015 15:30	0.2	0.2	0.3	312	5/1/2015 15:30	0	0	0	-0.2
313	5/1/2015 15:31	0.2	0.2	0.3	313	5/1/2015 15:31	0	0	0	-0.2
314	5/1/2015 15:32	0.1	0.2	0.3	314	5/1/2015 15:32	0	0	0	-0.2
315	5/1/2015 15:33	0.1	0.2	0.3	315	5/1/2015 15:33	0	0	0	-0.2
316	5/1/2015 15:34	0.1	0.2	0.3	316	5/1/2015 15:34	0	0	0	-0.2
317	5/1/2015 15:35	0.1	0.2	0.3	317	5/1/2015 15:35	0	0	0	-0.2
318	5/1/2015 15:36	0.2	0.2	0.3	318	5/1/2015 15:36	0	0	0	-0.2
319	5/1/2015 15:37	0.2	0.2	0.3	319	5/1/2015 15:37	0	0	0	-0.2
320	5/1/2015 15:38	0.2	0.2	0.3	320	5/1/2015 15:38	0	0	0	-0.2
321	5/1/2015 15:39	0.2	0.2	0.3	321	5/1/2015 15:39	0	0	0	-0.2
322	5/1/2015 15:40	0.2	0.2	0.3	322	5/1/2015 15:40	0	0	0	-0.2
323	5/1/2015 15:41	0.2	0.2	0.3	323	5/1/2015 15:41	0	0	0	-0.2
324	5/1/2015 15:42	0.1	0.2	0.3	324	5/1/2015 15:42	0	0	0	-0.2
325	5/1/2015 15:43	0.1	0.2	0.3	325	5/1/2015 15:43	0	0	0	-0.2
326	5/1/2015 15:44	0.1	0.2	0.3	326	5/1/2015 15:44	0	0	0	-0.2
327	5/1/2015 15:45	0.1	0.2	0.3	327	5/1/2015 15:45	0	0	0	-0.2
328	5/1/2015 15:46	0.1	0.2	0.3	328	5/1/2015 15:46	0	0	0	-0.2
329	5/1/2015 15:47	0.1	0.2	0.3	329	5/1/2015 15:47	0	0	0	-0.2
330	5/1/2015 15:48	0.2	0.2	0.3	330	5/1/2015 15:48	0	0	0	-0.2

331	5/1/2015 15:49	0.1	0.2	0.3	331	5/1/2015 15:49	0	0	0	-0.2
332	5/1/2015 15:50	0.2	0.2	0.3	332	5/1/2015 15:50	0	0	0	-0.2
333	5/1/2015 15:51	0.2	0.2	0.3	333	5/1/2015 15:51	0	0	0	-0.2
334	5/1/2015 15:52	0.2	0.2	0.4	334	5/1/2015 15:52	0	0	0	-0.2
335	5/1/2015 15:53	0.2	0.2	0.3	335	5/1/2015 15:53	0	0	0	-0.2
336	5/1/2015 15:54	0.1	0.2	0.3	336	5/1/2015 15:54	0	0	0	-0.2
337	5/1/2015 15:55	0.1	0.2	0.3	337	5/1/2015 15:55	0	0	0	-0.2
338	5/1/2015 15:56	0.1	0.2	0.3	338	5/1/2015 15:56	0	0	0	-0.2
339	5/1/2015 15:57	0.1	0.2	0.3	339	5/1/2015 15:57	0	0	0	-0.2
340	5/1/2015 15:58	0.1	0.2	0.3	340	5/1/2015 15:58	0	0	0	-0.2
341	5/1/2015 15:59	0.2	0.2	0.3	341	5/1/2015 15:59	0	0	0	-0.2
342	5/1/2015 16:00	0.2	0.2	0.3	342	5/1/2015 16:00	0	0	0	-0.2
343	5/1/2015 16:01	0.2	0.2	0.3	343	5/1/2015 16:01	0	0	0	-0.2
344	5/1/2015 16:02	0.2	0.2	0.3	344	5/1/2015 16:02	0	0	0	-0.2
345	5/1/2015 16:03	0.2	0.4	1.9	345	5/1/2015 16:03	0	0	0	-0.4
346	5/1/2015 16:04	0.2	0.3	0.4	346	5/1/2015 16:04	0	0	0	-0.3
347	5/1/2015 16:05	0.2	0.3	0.4	347	5/1/2015 16:05	0	0	0	-0.3
348	5/1/2015 16:06	0.2	0.3	0.4	348	5/1/2015 16:06	0	0	0	-0.3
349	5/1/2015 16:07	0.2	0.2	0.4	349	5/1/2015 16:07	0	0	0	-0.2
350	5/1/2015 16:08	0.2	0.2	0.4	350	5/1/2015 16:08	0	0	0	-0.2
351	5/1/2015 16:09	0.2	0.2	0.3	351	5/1/2015 16:09	0	0	0	-0.2
352	5/1/2015 16:10	0.2	0.2	0.3	352	5/1/2015 16:10	0	0	0	-0.2
353	5/1/2015 16:11	0.2	0.2	0.3	353	5/1/2015 16:11	0	0	0	-0.2
354	5/1/2015 16:12	0.1	0.2	0.3	354	5/1/2015 16:12	0	0	0	-0.2
355	5/1/2015 16:13	0.1	0.2	0.3	355	5/1/2015 16:13	0	0	0	-0.2
356	5/1/2015 16:14	0.1	0.2	0.3	356	5/1/2015 16:14	0	0	0	-0.2
357	5/1/2015 16:15	0.1	0.2	0.3	357	5/1/2015 16:15	0	0	0	-0.2
358	5/1/2015 16:16	0.1	0.2	0.3	358	5/1/2015 16:16	0	0	0	-0.2
359	5/1/2015 16:17	0.1	0.2	0.3	359	5/1/2015 16:17	0	0	0	-0.2
360	5/1/2015 16:18	0.1	0.2	0.3	360	5/1/2015 16:18	0	0	0	-0.2
361	5/1/2015 16:19	0.1	0.2	0.3	361	5/1/2015 16:19	0	0	0	-0.2
362	5/1/2015 16:20	0.1	0.2	0.3	362	5/1/2015 16:20	0	0	0	-0.2
363	5/1/2015 16:21	0.1	0.2	0.3	363	5/1/2015 16:21	0	0	0	-0.2
364	5/1/2015 16:22	0.1	0.2	0.3						-0.2
365	5/1/2015 16:23	0.1	0.2	0.3						-0.2
366	5/1/2015 16:24	0.1	0.2	0.3						-0.2

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	3.3
Calibration Date	2/24/2015
Test Name	MANUAL_001
Test Start Time	10:10:46 AM
Test Start Date	4/29/2015
Test Length [D:H:M]	0:00:45
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.149
PM1 Minimum [mg/m3]	0.044
PM1 Maximum [mg/m3]	0.307
PM1 TWA [mg/m3]	0.014
PM2.5 Average [mg/m3]	0.156
PM2.5 Minimum [mg/m3]	0.048
PM2.5 Maximum [mg/m3]	0.316
PM2.5 TWA [mg/m3]	0.015
PM4 Average [mg/m3]	0.165
PM4 Minimum [mg/m3]	0.052
PM4 Maximum [mg/m3]	0.325
PM4 TWA [mg/m3]	0.015
PM10 Average [mg/m3]	0.184
PM10 Minimum [mg/m3]	0.06
PM10 Maximum [mg/m3]	0.346
PM10 TWA [mg/m3]	0.017
TOTAL Average [mg/m3]	0.186
TOTAL Minimum [mg/m3]	0.061
TOTAL Maximum [mg/m3]	0.348
TOTAL TWA [mg/m3]	0.017
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	45

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg	Alarms	Errors
10:10:46 AM	0.094	0.103	0.115	0.141	0.149		
10:11:46 AM	0.09	0.102	0.118	0.155	0.16		
10:12:46 AM	0.077	0.087	0.101	0.127	0.132		
10:13:46 AM	0.066	0.075	0.086	0.109	0.113		
10:14:46 AM	0.072	0.081	0.094	0.122	0.125		
10:15:46 AM	0.064	0.073	0.084	0.106	0.11		
10:16:46 AM	0.051	0.058	0.066	0.081	0.082		
10:17:46 AM	0.073	0.082	0.094	0.121	0.124		
10:18:46 AM	0.073	0.083	0.095	0.119	0.119		
10:19:46 AM	0.069	0.077	0.087	0.108	0.109		
10:20:46 AM	0.075	0.083	0.094	0.112	0.114		
10:21:46 AM	0.061	0.068	0.078	0.095	0.097		
10:22:46 AM	0.048	0.054	0.06	0.073	0.074		
10:23:46 AM	0.045	0.049	0.055	0.065	0.066		
10:24:46 AM	0.046	0.05	0.055	0.064	0.066		
10:25:46 AM	0.044	0.048	0.052	0.06	0.061		
10:26:46 AM	0.05	0.054	0.059	0.068	0.07		
10:27:46 AM	0.106	0.111	0.116	0.125	0.127		
10:28:46 AM	0.163	0.167	0.173	0.184	0.186		
10:29:46 AM	0.169	0.174	0.179	0.19	0.193		
10:30:46 AM	0.173	0.179	0.186	0.204	0.206		

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132901
Firmware Version	3
Calibration Date	7/9/2014
Test Name	MANUAL_001
Test Start Time	10:11:31 AM
Test Start Date	4/29/2015
Test Length [D:H:M]	0:07:37
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.13
PM1 Minimum [mg/m3]	0.033
PM1 Maximum [mg/m3]	0.348
PM1 TWA [mg/m3]	0.124
PM2.5 Average [mg/m3]	0.133
PM2.5 Minimum [mg/m3]	0.035
PM2.5 Maximum [mg/m3]	0.351
PM2.5 TWA [mg/m3]	0.126
PM4 Average [mg/m3]	0.137
PM4 Minimum [mg/m3]	0.038
PM4 Maximum [mg/m3]	0.355
PM4 TWA [mg/m3]	0.13
PM10 Average [mg/m3]	0.143
PM10 Minimum [mg/m3]	0.042
PM10 Maximum [mg/m3]	0.361
PM10 TWA [mg/m3]	0.136
TOTAL Average [mg/m3]	0.144
TOTAL Minimum [mg/m3]	0.043
TOTAL Maximum [mg/m3]	0.362
TOTAL TWA [mg/m3]	0.137
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	457

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/n	PM10 [mg/	TOTAL [mg	Alarms	Errors	Difference
10:11:31 AM	0.1	0.11	0.125	0.155	0.164			-0.149
10:12:31 AM	0.098	0.108	0.123	0.15	0.158			-0.149
10:13:31 AM	0.062	0.067	0.076	0.091	0.094			-0.149
10:14:31 AM	0.069	0.076	0.086	0.105	0.111			-0.149
10:15:31 AM	0.065	0.072	0.081	0.099	0.102			-0.149
10:16:31 AM	0.058	0.064	0.072	0.084	0.088			-0.149
10:17:31 AM	0.051	0.056	0.063	0.073	0.074			-0.149
10:18:31 AM	0.051	0.056	0.062	0.074	0.077			-0.149
10:19:31 AM	0.055	0.059	0.066	0.075	0.077			-0.149
10:20:31 AM	0.057	0.062	0.069	0.079	0.08			-0.149
10:21:31 AM	0.051	0.055	0.062	0.072	0.073			-0.149
10:22:31 AM	0.046	0.049	0.054	0.063	0.064			-0.149
10:23:31 AM	0.043	0.046	0.05	0.056	0.056			-0.149
10:24:31 AM	0.045	0.047	0.051	0.057	0.058			-0.149
10:25:31 AM	0.044	0.047	0.051	0.056	0.057			-0.149
10:26:31 AM	0.043	0.046	0.05	0.054	0.055			-0.149
10:27:31 AM	0.047	0.05	0.053	0.059	0.06			-0.149
10:28:31 AM	0.05	0.052	0.056	0.061	0.061			-0.149
10:29:31 AM	0.051	0.053	0.057	0.063	0.065			-0.149
10:30:31 AM	0.059	0.062	0.065	0.071	0.072			-0.149

10:31:46 AM	0.174	0.181	0.193	0.222	0.226
10:32:46 AM	0.257	0.265	0.276	0.302	0.307
10:33:46 AM	0.268	0.276	0.288	0.313	0.316
10:34:46 AM	0.223	0.231	0.242	0.264	0.266
10:35:46 AM	0.194	0.2	0.207	0.221	0.222
10:36:46 AM	0.22	0.226	0.233	0.249	0.252
10:37:46 AM	0.229	0.236	0.244	0.262	0.264
10:38:46 AM	0.217	0.223	0.231	0.249	0.252
10:39:46 AM	0.246	0.253	0.261	0.282	0.286
10:40:46 AM	0.23	0.236	0.245	0.263	0.265
10:41:46 AM	0.246	0.254	0.265	0.29	0.294
10:42:46 AM	0.195	0.201	0.209	0.228	0.231
10:43:46 AM	0.136	0.141	0.148	0.164	0.166
10:44:46 AM	0.16	0.165	0.173	0.191	0.194
10:45:46 AM	0.169	0.175	0.183	0.203	0.206
10:46:46 AM	0.169	0.175	0.184	0.203	0.205
10:47:46 AM	0.179	0.186	0.196	0.219	0.223
10:48:46 AM	0.167	0.173	0.182	0.199	0.201
10:49:46 AM	0.184	0.19	0.199	0.218	0.221
10:50:46 AM	0.165	0.171	0.178	0.194	0.195
10:51:46 AM	0.307	0.316	0.325	0.346	0.348
10:52:46 AM	0.22	0.228	0.238	0.259	0.262
10:53:46 AM	0.214	0.222	0.231	0.248	0.25
10:54:46 AM	0.209	0.217	0.226	0.245	0.247
10:57:38 AM	0.225	0.233	0.243	0.262	0.265
10:58:38 AM	0.262	0.271	0.281	0.297	0.298
10:59:38 AM	0.29	0.298	0.307	0.326	0.329
11:00:38 AM	0.289	0.296	0.304	0.319	0.321
11:01:38 AM	0.309	0.316	0.323	0.338	0.34
11:02:38 AM	0.32	0.326	0.334	0.346	0.348
11:03:38 AM	0.33	0.336	0.342	0.355	0.356
11:04:38 AM	0.317	0.323	0.33	0.344	0.345
11:05:38 AM	0.33	0.338	0.346	0.365	0.368
11:06:38 AM	0.272	0.277	0.283	0.295	0.296
11:07:38 AM	0.287	0.292	0.298	0.311	0.313
11:08:38 AM	0.361	0.367	0.373	0.384	0.385
11:09:38 AM	0.345	0.35	0.357	0.367	0.368
11:10:38 AM	0.414	0.419	0.424	0.433	0.436
11:11:38 AM	0.396	0.402	0.41	0.423	0.425
11:12:38 AM	0.444	0.451	0.46	0.477	0.48
11:13:38 AM	0.426	0.432	0.439	0.451	0.454
11:14:38 AM	0.491	0.497	0.504	0.517	0.519
11:15:38 AM	0.461	0.466	0.472	0.484	0.484
11:16:38 AM	0.472	0.478	0.485	0.498	0.501
11:17:38 AM	0.418	0.423	0.429	0.442	0.443
11:18:38 AM	0.455	0.461	0.468	0.481	0.483
11:19:38 AM	0.515	0.522	0.53	0.546	0.547
11:20:38 AM	0.45	0.456	0.464	0.477	0.48
11:21:38 AM	0.318	0.325	0.334	0.355	0.356
11:22:38 AM	0.25	0.256	0.265	0.284	0.286
11:23:38 AM	0.253	0.259	0.267	0.285	0.286
11:24:38 AM	0.232	0.237	0.245	0.257	0.259
11:25:38 AM	0.22	0.225	0.231	0.244	0.244
11:26:38 AM	0.273	0.278	0.285	0.296	0.296
11:27:38 AM	0.305	0.312	0.319	0.333	0.334
11:28:38 AM	0.456	0.464	0.471	0.484	0.485
11:29:38 AM	0.466	0.473	0.48	0.493	0.493
11:30:38 AM	0.425	0.431	0.438	0.451	0.452

10:31:31 AM	0.054	0.057	0.062	0.071	0.073	-0.149
10:32:31 AM	0.061	0.063	0.067	0.074	0.076	-0.149
10:33:31 AM	0.057	0.06	0.063	0.072	0.073	-0.149
10:34:31 AM	0.066	0.069	0.073	0.081	0.082	-0.149
10:35:31 AM	0.075	0.078	0.083	0.094	0.096	-0.149
10:36:31 AM	0.078	0.08	0.084	0.092	0.093	-0.149
10:37:31 AM	0.122	0.127	0.135	0.149	0.154	-0.149
10:38:31 AM	0.118	0.121	0.128	0.14	0.142	-0.149
10:39:31 AM	0.108	0.111	0.117	0.127	0.129	-0.149
10:40:31 AM	0.102	0.104	0.109	0.118	0.119	-0.149
10:41:31 AM	0.095	0.098	0.103	0.113	0.116	-0.149
10:42:31 AM	0.088	0.091	0.097	0.107	0.107	-0.149
10:43:31 AM	0.077	0.08	0.086	0.098	0.099	-0.149
10:44:31 AM	0.082	0.085	0.09	0.101	0.103	-0.149
10:45:31 AM	0.092	0.095	0.1	0.11	0.112	-0.149
10:46:31 AM	0.099	0.102	0.107	0.118	0.12	-0.149
10:47:31 AM	0.102	0.105	0.111	0.123	0.125	-0.149
10:48:31 AM	0.094	0.097	0.102	0.112	0.114	-0.149
10:49:31 AM	0.092	0.094	0.099	0.109	0.11	-0.149
10:50:31 AM	0.088	0.091	0.095	0.104	0.106	-0.149
10:51:31 AM	0.101	0.104	0.108	0.117	0.118	-0.149
10:52:31 AM	0.107	0.11	0.114	0.124	0.125	-0.149
10:53:31 AM	0.092	0.095	0.099	0.106	0.107	-0.149
10:54:31 AM	0.078	0.08	0.084	0.092	0.093	-0.149
10:55:31 AM	0.076	0.079	0.083	0.089	0.089	-0.149
10:56:31 AM	0.084	0.086	0.09	0.097	0.098	-0.149
10:57:31 AM	0.093	0.095	0.1	0.107	0.107	-0.149
10:58:31 AM	0.112	0.114	0.119	0.125	0.125	-0.149
10:59:31 AM	0.125	0.127	0.132	0.138	0.14	-0.149
11:00:31 AM	0.137	0.139	0.144	0.151	0.152	-0.149
11:01:31 AM	0.121	0.124	0.128	0.133	0.134	-0.149
11:02:31 AM	0.124	0.126	0.13	0.136	0.137	-0.149
11:03:31 AM	0.107	0.11	0.113	0.12	0.12	-0.149
11:04:31 AM	0.115	0.118	0.122	0.128	0.129	-0.149
11:05:31 AM	0.135	0.138	0.142	0.148	0.15	-0.149
11:06:31 AM	0.185	0.187	0.191	0.197	0.199	-0.149
11:07:31 AM	0.19	0.193	0.196	0.203	0.203	-0.149
11:08:31 AM	0.168	0.17	0.173	0.178	0.179	-0.149
11:09:31 AM	0.166	0.168	0.172	0.177	0.178	-0.149
11:10:31 AM	0.175	0.177	0.181	0.187	0.187	-0.149
11:11:31 AM	0.209	0.212	0.215	0.22	0.22	-0.149
11:12:31 AM	0.253	0.255	0.259	0.266	0.266	-0.149
11:13:31 AM	0.298	0.301	0.306	0.313	0.314	-0.149
11:14:31 AM	0.287	0.291	0.299	0.31	0.313	-0.149
11:15:31 AM	0.229	0.233	0.238	0.246	0.248	-0.149
11:16:31 AM	0.22	0.223	0.227	0.234	0.235	-0.149
11:17:31 AM	0.186	0.188	0.192	0.198	0.198	-0.149
11:18:31 AM	0.191	0.193	0.196	0.201	0.202	-0.149
11:19:31 AM	0.169	0.171	0.174	0.178	0.179	-0.149
11:20:31 AM	0.235	0.237	0.24	0.245	0.245	-0.149
11:21:31 AM	0.292	0.295	0.3	0.308	0.31	-0.149
11:22:31 AM	0.269	0.274	0.281	0.296	0.297	-0.149
11:23:31 AM	0.205	0.208	0.213	0.222	0.224	-0.149
11:24:31 AM	0.188	0.19	0.194	0.2	0.201	-0.149
11:25:31 AM	0.233	0.236	0.24	0.246	0.247	-0.149
11:26:31 AM	0.295	0.299	0.303	0.311	0.312	-0.149
11:27:31 AM	0.303	0.306	0.31	0.318	0.321	-0.149
11:28:31 AM	0.319	0.322	0.326	0.332	0.333	-0.149
11:29:31 AM	0.258	0.261	0.264	0.27	0.27	-0.149
11:30:31 AM	0.257	0.259	0.263	0.269	0.27	-0.149

11:31:38 AM	0.423	0.429	0.435	0.446	0.447		11:31:31 AM	0.279	0.282	0.285	0.291	0.291	-0.149
11:32:38 AM	0.443	0.448	0.454	0.464	0.465		11:32:31 AM	0.334	0.337	0.34	0.346	0.346	-0.149
11:33:38 AM	0.427	0.433	0.439	0.45	0.451		11:33:31 AM	0.321	0.324	0.328	0.334	0.335	-0.149
11:34:38 AM	0.426	0.432	0.439	0.452	0.453		11:34:31 AM	0.297	0.299	0.303	0.308	0.308	-0.149
11:35:38 AM	0.447	0.455	0.464	0.478	0.479		11:35:31 AM	0.308	0.311	0.315	0.322	0.323	-0.149
11:36:38 AM	0.456	0.465	0.475	0.492	0.494		11:36:31 AM	0.348	0.351	0.355	0.361	0.362	-0.149
11:37:38 AM	0.436	0.444	0.452	0.468	0.468		11:37:31 AM	0.347	0.35	0.354	0.36	0.361	-0.149
11:38:38 AM	0.426	0.433	0.439	0.451	0.452		11:38:31 AM	0.313	0.315	0.319	0.326	0.327	-0.149
11:39:38 AM	0.349	0.355	0.362	0.375	0.376		11:39:31 AM	0.253	0.256	0.259	0.266	0.267	-0.149
11:40:38 AM	0.323	0.33	0.338	0.354	0.354		11:40:31 AM	0.234	0.237	0.241	0.247	0.248	-0.149
11:41:38 AM	0.371	0.377	0.384	0.397	0.399		11:41:31 AM	0.261	0.264	0.268	0.275	0.276	-0.149
11:42:38 AM	0.375	0.381	0.389	0.402	0.406		11:42:31 AM	0.178	0.181	0.185	0.192	0.193	-0.149
11:43:38 AM	0.384	0.39	0.398	0.414	0.416		11:43:31 AM	0.232	0.235	0.239	0.247	0.248	-0.149
11:44:38 AM	0.323	0.329	0.335	0.349	0.351		11:44:31 AM	0.261	0.264	0.268	0.276	0.276	-0.149
11:45:38 AM	0.392	0.398	0.405	0.418	0.419		11:45:31 AM	0.249	0.251	0.256	0.264	0.264	-0.149
11:46:38 AM	0.372	0.38	0.388	0.403	0.404		11:46:31 AM	0.244	0.247	0.251	0.256	0.256	-0.149
11:47:38 AM	0.347	0.353	0.361	0.375	0.376		11:47:31 AM	0.255	0.257	0.261	0.268	0.268	-0.149
11:48:38 AM	0.348	0.355	0.363	0.377	0.379		11:48:31 AM	0.287	0.29	0.294	0.301	0.302	-0.149
11:49:38 AM	0.326	0.332	0.34	0.354	0.356		11:49:31 AM	0.252	0.255	0.259	0.265	0.266	-0.149
11:50:38 AM	0.278	0.283	0.289	0.3	0.302		11:50:31 AM	0.211	0.214	0.217	0.223	0.224	-0.149
11:51:38 AM	0.261	0.266	0.272	0.284	0.285		11:51:31 AM	0.177	0.18	0.183	0.189	0.189	-0.149
11:52:38 AM	0.225	0.229	0.235	0.245	0.246		11:52:31 AM	0.162	0.164	0.168	0.173	0.174	-0.149
11:53:38 AM	0.253	0.258	0.264	0.275	0.276		11:53:31 AM	0.177	0.18	0.183	0.189	0.19	-0.149
11:54:38 AM	0.227	0.231	0.236	0.248	0.249		11:54:31 AM	0.168	0.171	0.174	0.18	0.18	-0.149
11:55:38 AM	0.222	0.226	0.231	0.243	0.244		11:55:31 AM	0.146	0.148	0.151	0.156	0.157	-0.149
11:56:38 AM	0.223	0.228	0.234	0.244	0.244		11:56:31 AM	0.15	0.153	0.156	0.16	0.162	-0.149
11:57:38 AM	0.164	0.167	0.172	0.179	0.18		11:57:31 AM	0.132	0.134	0.137	0.141	0.142	-0.149
11:58:38 AM	0.152	0.156	0.16	0.167	0.167		11:58:31 AM	0.125	0.127	0.13	0.134	0.135	-0.149
11:59:38 AM	0.158	0.162	0.166	0.176	0.176		11:59:31 AM	0.128	0.13	0.133	0.138	0.138	-0.149
12:00:38 PM	0.147	0.151	0.155	0.164	0.164		12:00:31 PM	0.114	0.116	0.119	0.123	0.124	-0.149
12:01:38 PM	0.138	0.142	0.146	0.155	0.157		12:01:31 PM	0.109	0.111	0.114	0.118	0.119	-0.149
12:02:38 PM	0.11	0.113	0.116	0.124	0.125		12:02:31 PM	0.109	0.11	0.113	0.117	0.118	-0.149
12:03:38 PM	0.113	0.117	0.122	0.131	0.131		12:03:31 PM	0.1	0.102	0.104	0.109	0.109	-0.149
12:04:38 PM	0.096	0.1	0.104	0.113	0.114		12:04:31 PM	0.077	0.079	0.082	0.087	0.087	-0.149
12:05:38 PM	0.109	0.114	0.12	0.132	0.133		12:05:31 PM	0.079	0.081	0.084	0.089	0.09	-0.149
12:06:38 PM	0.099	0.104	0.11	0.12	0.122		12:06:31 PM	0.072	0.074	0.077	0.081	0.082	-0.149
12:07:38 PM	0.071	0.075	0.08	0.088	0.088		12:07:31 PM	0.064	0.066	0.069	0.073	0.074	-0.149
12:08:38 PM	0.075	0.079	0.084	0.092	0.093		12:08:31 PM	0.072	0.074	0.078	0.082	0.083	-0.149
12:09:38 PM	0.085	0.089	0.095	0.106	0.107		12:09:31 PM	0.076	0.079	0.082	0.088	0.089	-0.149
12:10:38 PM	0.075	0.078	0.083	0.092	0.092		12:10:31 PM	0.064	0.066	0.069	0.073	0.074	-0.149
12:11:38 PM	0.07	0.074	0.078	0.087	0.087		12:11:31 PM	0.061	0.063	0.066	0.07	0.071	-0.149
12:12:38 PM	0.071	0.075	0.08	0.089	0.09		12:12:31 PM	0.065	0.068	0.071	0.075	0.077	-0.149
12:13:38 PM	0.068	0.071	0.075	0.083	0.083		12:13:31 PM	0.063	0.066	0.069	0.075	0.076	-0.149
12:14:38 PM	0.072	0.076	0.081	0.091	0.092		12:14:31 PM	0.06	0.062	0.066	0.072	0.073	-0.149
12:15:38 PM	0.069	0.073	0.079	0.088	0.088		12:15:31 PM	0.061	0.063	0.067	0.072	0.073	-0.149
12:16:38 PM	0.075	0.08	0.087	0.102	0.105		12:16:31 PM	0.076	0.081	0.088	0.101	0.105	-0.149
12:17:38 PM	0.067	0.073	0.079	0.095	0.096		12:17:31 PM	0.076	0.081	0.088	0.1	0.103	-0.149
12:18:38 PM	0.064	0.068	0.073	0.082	0.082		12:18:31 PM	0.061	0.064	0.069	0.077	0.078	-0.149
12:19:38 PM	0.061	0.064	0.068	0.077	0.078		12:19:31 PM	0.052	0.054	0.058	0.063	0.064	-0.149
12:20:38 PM	0.054	0.057	0.061	0.069	0.069		12:20:31 PM	0.05	0.052	0.055	0.062	0.064	-0.149
12:21:38 PM	0.062	0.066	0.071	0.08	0.081		12:21:31 PM	0.047	0.049	0.052	0.058	0.06	-0.149
12:22:38 PM	0.061	0.065	0.07	0.078	0.079		12:22:31 PM	0.045	0.047	0.051	0.055	0.056	-0.149
12:23:38 PM	0.057	0.061	0.066	0.075	0.075		12:23:31 PM	0.042	0.044	0.048	0.053	0.055	-0.149
12:24:38 PM	0.049	0.052	0.056	0.066	0.066		12:24:31 PM	0.043	0.045	0.048	0.054	0.055	-0.149
12:25:38 PM	0.053	0.056	0.06	0.069	0.07		12:25:31 PM	0.04	0.042	0.045	0.049	0.05	-0.149
12:26:38 PM	0.05	0.053	0.058	0.067	0.067		12:26:31 PM	0.04	0.041	0.044	0.048	0.049	-0.149
12:27:38 PM	0.052	0.055	0.058	0.066	0.067		12:27:31 PM	0.04	0.042	0.045	0.05	0.05	-0.149
12:28:38 PM	0.046	0.049	0.052	0.061	0.062		12:28:31 PM	0.041	0.043	0.046	0.052	0.052	-0.149
12:29:38 PM	0.084	0.087	0.092	0.102	0.102		12:29:31 PM	0.044	0.046	0.049	0.054	0.056	-0.149
12:30:38 PM	0.082	0.085	0.09	0.1	0.102		12:30:31 PM	0.044	0.047	0.05	0.056	0.056	-0.149

12:31:38 PM	0.092	0.095	0.101	0.111	0.111	12:31:31 PM	0.045	0.048	0.051	0.058	0.059	-0.149
12:32:38 PM	0.1	0.105	0.111	0.124	0.126	12:32:31 PM	0.05	0.052	0.056	0.062	0.063	-0.149
12:33:38 PM	0.099	0.104	0.11	0.124	0.125	12:33:31 PM	0.047	0.05	0.054	0.059	0.061	-0.149
12:34:38 PM	0.09	0.095	0.102	0.115	0.116	12:34:31 PM	0.062	0.065	0.069	0.077	0.077	-0.149
12:35:38 PM	0.089	0.094	0.1	0.115	0.118	12:35:31 PM	0.065	0.068	0.072	0.08	0.081	-0.149
12:36:38 PM	0.094	0.1	0.106	0.121	0.123	12:36:31 PM	0.064	0.067	0.071	0.08	0.08	-0.149
12:37:38 PM	0.08	0.086	0.094	0.112	0.114	12:37:31 PM	0.061	0.064	0.069	0.076	0.076	-0.149
12:38:38 PM	0.091	0.096	0.103	0.119	0.121	12:38:31 PM	0.057	0.061	0.066	0.074	0.076	-0.149
12:39:38 PM	0.088	0.094	0.101	0.12	0.122	12:39:31 PM	0.047	0.05	0.054	0.061	0.062	-0.149
12:40:38 PM	0.093	0.097	0.102	0.116	0.117	12:40:31 PM	0.046	0.048	0.052	0.059	0.059	-0.149
12:41:38 PM	0.099	0.103	0.109	0.121	0.123	12:41:31 PM	0.054	0.056	0.06	0.068	0.069	-0.149
12:42:38 PM	0.098	0.102	0.108	0.121	0.122	12:42:31 PM	0.059	0.061	0.065	0.072	0.074	-0.149
12:43:38 PM	0.106	0.111	0.117	0.132	0.134	12:43:31 PM	0.057	0.06	0.064	0.07	0.072	-0.149
12:44:38 PM	0.092	0.097	0.104	0.12	0.123	12:44:31 PM	0.057	0.06	0.064	0.072	0.073	-0.149
12:45:38 PM	0.094	0.101	0.111	0.131	0.133	12:45:31 PM	0.063	0.066	0.071	0.08	0.081	-0.149
12:46:38 PM	0.089	0.095	0.102	0.12	0.122	12:46:31 PM	0.062	0.066	0.071	0.08	0.081	-0.149
12:47:38 PM	0.092	0.097	0.104	0.12	0.121	12:47:31 PM	0.066	0.07	0.075	0.085	0.087	-0.149
12:48:38 PM	0.087	0.092	0.098	0.11	0.111	12:48:31 PM	0.06	0.063	0.068	0.075	0.076	-0.149
12:49:38 PM	0.092	0.1	0.11	0.129	0.132	12:49:31 PM	0.063	0.067	0.072	0.081	0.082	-0.149
12:50:38 PM	0.091	0.101	0.112	0.134	0.136	12:50:31 PM	0.051	0.054	0.058	0.066	0.067	-0.149
12:51:38 PM	0.076	0.084	0.094	0.111	0.112	12:51:31 PM	0.043	0.045	0.05	0.056	0.057	-0.149
12:52:38 PM	0.082	0.087	0.094	0.108	0.109	12:52:31 PM	0.041	0.044	0.048	0.053	0.054	-0.149
12:53:38 PM	0.121	0.127	0.135	0.15	0.152	12:53:31 PM	0.05	0.053	0.057	0.063	0.065	-0.149
12:54:38 PM	0.137	0.145	0.154	0.171	0.172	12:54:31 PM	0.061	0.063	0.068	0.074	0.076	-0.149
12:55:38 PM	0.151	0.161	0.171	0.189	0.191	12:55:31 PM	0.07	0.073	0.078	0.085	0.086	-0.149
12:56:38 PM	0.153	0.162	0.172	0.19	0.193	12:56:31 PM	0.08	0.083	0.088	0.096	0.096	-0.149
12:57:38 PM	0.128	0.136	0.143	0.156	0.156	12:57:31 PM	0.081	0.084	0.089	0.095	0.096	-0.149
12:58:38 PM	0.111	0.117	0.123	0.136	0.136	12:58:31 PM	0.087	0.09	0.094	0.101	0.101	-0.149
12:59:38 PM	0.125	0.132	0.138	0.15	0.152	12:59:31 PM	0.08	0.083	0.087	0.093	0.095	-0.149
1:00:38 PM	0.138	0.145	0.152	0.164	0.166	1:00:31 PM	0.067	0.07	0.074	0.08	0.081	-0.149
1:01:38 PM	0.147	0.154	0.161	0.174	0.175	1:01:31 PM	0.071	0.074	0.078	0.084	0.086	-0.149
1:02:38 PM	0.157	0.164	0.171	0.183	0.185	1:02:31 PM	0.058	0.061	0.065	0.071	0.072	-0.149
1:03:38 PM	0.15	0.157	0.165	0.18	0.181	1:03:31 PM	0.054	0.056	0.06	0.066	0.068	-0.149
1:04:38 PM	0.157	0.164	0.173	0.187	0.188	1:04:31 PM	0.05	0.053	0.057	0.062	0.063	-0.149
1:05:38 PM	0.139	0.145	0.153	0.166	0.167	1:05:31 PM	0.039	0.041	0.044	0.049	0.05	-0.149
1:06:38 PM	0.12	0.126	0.134	0.147	0.148	1:06:31 PM	0.042	0.045	0.048	0.054	0.054	-0.149
1:07:38 PM	0.129	0.135	0.142	0.156	0.158	1:07:31 PM	0.059	0.062	0.067	0.074	0.076	-0.149
1:08:38 PM	0.143	0.151	0.16	0.177	0.179	1:08:31 PM	0.074	0.078	0.083	0.093	0.093	-0.149
1:09:38 PM	0.184	0.197	0.211	0.236	0.238	1:09:31 PM	0.071	0.074	0.079	0.087	0.089	-0.149
1:10:38 PM	0.181	0.19	0.2	0.218	0.22	1:10:31 PM	0.07	0.073	0.077	0.084	0.084	-0.149
1:11:38 PM	0.167	0.174	0.182	0.198	0.199	1:11:31 PM	0.065	0.068	0.073	0.08	0.081	-0.149
1:12:38 PM	0.172	0.179	0.187	0.201	0.202	1:12:31 PM	0.075	0.079	0.085	0.095	0.097	-0.149
1:13:38 PM	0.153	0.16	0.168	0.182	0.184	1:13:31 PM	0.081	0.085	0.091	0.1	0.101	-0.149
1:14:38 PM	0.145	0.151	0.159	0.172	0.173	1:14:31 PM	0.075	0.079	0.084	0.092	0.094	-0.149
1:15:38 PM	0.16	0.166	0.173	0.187	0.187	1:15:31 PM	0.064	0.067	0.072	0.079	0.08	-0.149
1:16:38 PM	0.155	0.162	0.168	0.18	0.182	1:16:31 PM	0.07	0.073	0.077	0.084	0.085	-0.149
1:17:38 PM	0.152	0.159	0.166	0.178	0.178	1:17:31 PM	0.078	0.081	0.086	0.093	0.093	-0.149
1:18:38 PM	0.157	0.164	0.171	0.183	0.184	1:18:31 PM	0.094	0.097	0.102	0.109	0.109	-0.149
1:19:38 PM	0.176	0.183	0.19	0.202	0.202	1:19:31 PM	0.086	0.089	0.094	0.101	0.102	-0.149
1:20:38 PM	0.193	0.203	0.213	0.229	0.231	1:20:31 PM	0.092	0.095	0.099	0.105	0.107	-0.149
1:21:38 PM	0.232	0.25	0.266	0.293	0.295	1:21:31 PM	0.095	0.098	0.102	0.108	0.109	-0.149
1:22:38 PM	0.193	0.204	0.216	0.234	0.236	1:22:31 PM	0.075	0.078	0.081	0.087	0.088	-0.149
1:23:38 PM	0.209	0.223	0.241	0.274	0.275	1:23:31 PM	0.065	0.067	0.072	0.078	0.08	-0.149
1:24:38 PM	0.199	0.212	0.228	0.255	0.257	1:24:31 PM	0.074	0.077	0.082	0.092	0.093	-0.149
1:25:38 PM	0.166	0.174	0.184	0.204	0.205	1:25:31 PM	0.064	0.067	0.071	0.076	0.077	-0.149
1:26:38 PM	0.159	0.167	0.175	0.191	0.192	1:26:31 PM	0.055	0.057	0.061	0.065	0.066	-0.149
1:27:38 PM	0.156	0.164	0.172	0.186	0.19	1:27:31 PM	0.054	0.056	0.06	0.066	0.068	-0.149
1:28:38 PM	0.134	0.14	0.147	0.16	0.161	1:28:31 PM	0.048	0.05	0.054	0.059	0.061	-0.149
1:29:38 PM	0.143	0.149	0.155	0.168	0.17	1:29:31 PM	0.059	0.061	0.065	0.07	0.07	-0.149
1:30:38 PM	0.128	0.133	0.14	0.151	0.152	1:30:31 PM	0.069	0.071	0.074	0.079	0.08	-0.149

1:31:38 PM	0.1	0.105	0.11	0.12	0.12
1:32:38 PM	0.098	0.102	0.107	0.117	0.118
1:33:38 PM	0.113	0.118	0.124	0.136	0.136
1:34:38 PM	0.098	0.103	0.108	0.117	0.118
1:35:38 PM	0.098	0.103	0.108	0.117	0.119
1:36:38 PM	0.1	0.105	0.11	0.12	0.122
1:37:38 PM	0.097	0.101	0.106	0.116	0.117
1:38:38 PM	0.087	0.092	0.097	0.107	0.108
1:39:38 PM	0.109	0.113	0.119	0.13	0.13
1:40:38 PM	0.085	0.089	0.094	0.106	0.107
1:41:38 PM	0.08	0.083	0.089	0.099	0.101
1:42:38 PM	0.071	0.075	0.08	0.092	0.093
1:43:38 PM	0.069	0.073	0.077	0.087	0.088
1:44:38 PM	0.066	0.07	0.075	0.087	0.088
1:45:38 PM	0.083	0.087	0.092	0.103	0.103
1:46:38 PM	0.065	0.068	0.073	0.083	0.085
1:47:38 PM	0.068	0.072	0.077	0.088	0.089
1:48:38 PM	0.059	0.063	0.067	0.077	0.079
1:49:38 PM	0.059	0.062	0.066	0.076	0.078
1:50:38 PM	0.06	0.064	0.067	0.075	0.076
1:51:38 PM	0.069	0.072	0.077	0.084	0.085
1:52:38 PM	0.084	0.088	0.092	0.101	0.102
1:53:38 PM	0.084	0.087	0.092	0.101	0.102
1:54:38 PM	0.09	0.094	0.1	0.11	0.113
1:55:38 PM	0.1	0.104	0.109	0.12	0.12
1:56:38 PM	0.107	0.111	0.116	0.128	0.128
1:57:38 PM	0.083	0.086	0.091	0.098	0.099
1:58:38 PM	0.114	0.12	0.127	0.139	0.14
1:59:38 PM	0.071	0.075	0.08	0.092	0.093
2:00:38 PM	0.08	0.083	0.088	0.095	0.096
2:01:38 PM	0.083	0.087	0.091	0.098	0.098
2:02:38 PM	0.082	0.085	0.089	0.098	0.099
2:03:38 PM	0.064	0.068	0.073	0.084	0.086
2:04:38 PM	0.082	0.085	0.089	0.099	0.1
2:05:38 PM	0.075	0.079	0.084	0.095	0.096
2:06:38 PM	0.113	0.12	0.129	0.145	0.148
2:07:38 PM	0.108	0.114	0.122	0.139	0.14
2:08:38 PM	0.129	0.139	0.15	0.171	0.172
2:09:38 PM	0.126	0.135	0.146	0.164	0.166
2:10:38 PM	0.128	0.137	0.146	0.165	0.167
2:11:38 PM	0.222	0.246	0.271	0.315	0.32
2:12:38 PM	0.189	0.206	0.223	0.256	0.258
2:13:38 PM	0.187	0.2	0.214	0.238	0.24
2:14:38 PM	0.165	0.173	0.181	0.196	0.197
2:15:38 PM	0.174	0.181	0.188	0.203	0.204
2:16:38 PM	0.176	0.182	0.189	0.203	0.204
2:17:38 PM	0.177	0.183	0.191	0.207	0.209
2:18:38 PM	0.199	0.21	0.222	0.243	0.248
2:19:38 PM	0.187	0.198	0.21	0.231	0.233
2:20:38 PM	0.186	0.196	0.206	0.228	0.229
2:21:38 PM	0.172	0.181	0.19	0.21	0.212
2:22:38 PM	0.154	0.163	0.173	0.193	0.195
2:23:38 PM	0.159	0.166	0.174	0.191	0.194
2:24:38 PM	0.159	0.166	0.173	0.187	0.188
2:25:38 PM	0.175	0.181	0.188	0.202	0.204
2:26:38 PM	0.178	0.184	0.192	0.206	0.207
2:27:38 PM	0.196	0.202	0.209	0.221	0.222
2:28:38 PM	0.191	0.197	0.204	0.217	0.218
2:29:38 PM	0.21	0.217	0.225	0.239	0.239
2:30:38 PM	0.23	0.24	0.25	0.268	0.27

1:31:31 PM	0.066	0.068	0.071	0.076	0.076	-0.149
1:32:31 PM	0.061	0.063	0.067	0.072	0.073	-0.149
1:33:31 PM	0.057	0.06	0.063	0.069	0.07	-0.149
1:34:31 PM	0.055	0.057	0.06	0.064	0.065	-0.149
1:35:31 PM	0.064	0.066	0.07	0.075	0.076	-0.149
1:36:31 PM	0.063	0.065	0.069	0.076	0.078	-0.149
1:37:31 PM	0.064	0.067	0.071	0.078	0.079	-0.149
1:38:31 PM	0.062	0.065	0.069	0.079	0.079	-0.149
1:39:31 PM	0.057	0.06	0.064	0.072	0.073	-0.149
1:40:31 PM	0.049	0.052	0.056	0.064	0.065	-0.149
1:41:31 PM	0.059	0.062	0.066	0.073	0.075	-0.149
1:42:31 PM	0.052	0.054	0.058	0.067	0.068	-0.149
1:43:31 PM	0.051	0.053	0.057	0.062	0.063	-0.149
1:44:31 PM	0.045	0.048	0.051	0.057	0.058	-0.149
1:45:31 PM	0.046	0.048	0.051	0.057	0.057	-0.149
1:46:31 PM	0.047	0.049	0.053	0.058	0.059	-0.149
1:47:31 PM	0.044	0.046	0.049	0.055	0.056	-0.149
1:48:31 PM	0.045	0.047	0.05	0.055	0.056	-0.149
1:49:31 PM	0.043	0.045	0.048	0.054	0.054	-0.149
1:50:31 PM	0.043	0.045	0.048	0.053	0.054	-0.149
1:51:31 PM	0.039	0.041	0.044	0.049	0.049	-0.149
1:52:31 PM	0.037	0.039	0.043	0.049	0.05	-0.149
1:53:31 PM	0.033	0.035	0.038	0.042	0.043	-0.149
1:54:31 PM	0.034	0.036	0.039	0.045	0.045	-0.149
1:55:31 PM	0.034	0.036	0.039	0.045	0.045	-0.149
1:56:31 PM	0.037	0.039	0.042	0.047	0.049	-0.149
1:57:31 PM	0.038	0.04	0.043	0.049	0.049	-0.149
1:58:31 PM	0.039	0.041	0.044	0.049	0.051	-0.149
1:59:31 PM	0.038	0.04	0.044	0.05	0.051	-0.149
2:00:31 PM	0.037	0.039	0.042	0.048	0.049	-0.149
2:01:31 PM	0.042	0.043	0.047	0.051	0.053	-0.149
2:02:31 PM	0.047	0.049	0.053	0.059	0.059	-0.149
2:03:31 PM	0.048	0.05	0.054	0.06	0.062	-0.149
2:04:31 PM	0.043	0.045	0.049	0.055	0.056	-0.149
2:05:31 PM	0.048	0.05	0.054	0.061	0.061	-0.149
2:06:31 PM	0.059	0.061	0.065	0.072	0.072	-0.149
2:07:31 PM	0.056	0.058	0.062	0.069	0.07	-0.149
2:08:31 PM	0.062	0.064	0.068	0.076	0.076	-0.149
2:09:31 PM	0.07	0.072	0.077	0.085	0.086	-0.149
2:10:31 PM	0.075	0.077	0.082	0.088	0.089	-0.149
2:11:31 PM	0.084	0.087	0.091	0.1	0.101	-0.149
2:12:31 PM	0.101	0.103	0.107	0.116	0.116	-0.149
2:13:31 PM	0.109	0.111	0.116	0.124	0.125	-0.149
2:14:31 PM	0.106	0.109	0.113	0.122	0.122	-0.149
2:15:31 PM	0.107	0.11	0.114	0.123	0.123	-0.149
2:16:31 PM	0.092	0.094	0.099	0.107	0.108	-0.149
2:17:31 PM	0.095	0.098	0.102	0.111	0.112	-0.149
2:18:31 PM	0.097	0.1	0.105	0.113	0.115	-0.149
2:19:31 PM	0.118	0.122	0.128	0.138	0.139	-0.149
2:20:31 PM	0.111	0.115	0.121	0.13	0.131	-0.149
2:21:31 PM	0.118	0.123	0.13	0.141	0.142	-0.149
2:22:31 PM	0.107	0.112	0.119	0.128	0.13	-0.149
2:23:31 PM	0.088	0.092	0.097	0.105	0.106	-0.149
2:24:31 PM	0.092	0.096	0.1	0.108	0.11	-0.149
2:25:31 PM	0.112	0.116	0.121	0.129	0.13	-0.149
2:26:31 PM	0.111	0.115	0.12	0.129	0.13	-0.149
2:27:31 PM	0.123	0.127	0.134	0.145	0.146	-0.149
2:28:31 PM	0.138	0.144	0.151	0.165	0.167	-0.149
2:29:31 PM	0.152	0.157	0.164	0.175	0.175	-0.149
2:30:31 PM	0.156	0.16	0.167	0.175	0.176	-0.149

2:31:38 PM	0.23	0.237	0.244	0.26	0.262	2:31:31 PM	0.194	0.198	0.205	0.217	0.219	-0.149
2:32:38 PM	0.234	0.24	0.247	0.26	0.26	2:32:31 PM	0.192	0.197	0.202	0.212	0.214	-0.149
2:33:38 PM	0.234	0.24	0.247	0.26	0.261	2:33:31 PM	0.181	0.185	0.191	0.199	0.201	-0.149
2:34:38 PM	0.242	0.247	0.254	0.265	0.267	2:34:31 PM	0.173	0.176	0.182	0.191	0.193	-0.149
2:35:38 PM	0.238	0.243	0.249	0.261	0.262	2:35:31 PM	0.158	0.162	0.168	0.177	0.181	-0.149
2:36:38 PM	0.27	0.276	0.282	0.294	0.294	2:36:31 PM	0.137	0.14	0.145	0.151	0.153	-0.149
2:37:38 PM	0.288	0.294	0.299	0.308	0.31	2:37:31 PM	0.169	0.172	0.177	0.185	0.186	-0.149
2:38:38 PM	0.301	0.308	0.315	0.329	0.331	2:38:31 PM	0.171	0.174	0.179	0.184	0.185	-0.149
2:39:38 PM	0.282	0.288	0.295	0.306	0.308	2:39:31 PM	0.17	0.173	0.177	0.183	0.184	-0.149
2:40:38 PM	0.248	0.253	0.259	0.269	0.27	2:40:31 PM	0.173	0.176	0.18	0.187	0.188	-0.149
2:41:38 PM	0.221	0.226	0.231	0.24	0.242	2:41:31 PM	0.136	0.139	0.143	0.148	0.149	-0.149
2:42:38 PM	0.216	0.222	0.227	0.236	0.237	2:42:31 PM	0.117	0.12	0.124	0.129	0.129	-0.149
2:43:38 PM	0.218	0.223	0.228	0.237	0.238	2:43:31 PM	0.121	0.123	0.127	0.132	0.132	-0.149
2:44:38 PM	0.218	0.223	0.228	0.238	0.238	2:44:31 PM	0.141	0.143	0.147	0.152	0.153	-0.149
2:45:38 PM	0.191	0.197	0.204	0.215	0.217	2:45:31 PM	0.14	0.142	0.146	0.151	0.151	-0.149
2:46:38 PM	0.2	0.206	0.212	0.223	0.223	2:46:31 PM	0.118	0.121	0.124	0.129	0.13	-0.149
2:47:38 PM	0.217	0.223	0.228	0.238	0.238	2:47:31 PM	0.105	0.107	0.11	0.115	0.115	-0.149
2:48:38 PM	0.258	0.267	0.276	0.289	0.29	2:48:31 PM	0.088	0.09	0.093	0.097	0.099	-0.149
2:49:38 PM	0.255	0.266	0.277	0.298	0.298	2:49:31 PM	0.086	0.088	0.09	0.095	0.095	-0.149
2:50:38 PM	0.291	0.304	0.315	0.335	0.338	2:50:31 PM	0.082	0.084	0.086	0.09	0.091	-0.149
2:51:38 PM	0.246	0.253	0.261	0.272	0.273	2:51:31 PM	0.095	0.097	0.1	0.104	0.105	-0.149
2:52:38 PM	0.264	0.274	0.284	0.299	0.301	2:52:31 PM	0.115	0.117	0.12	0.125	0.125	-0.149
2:53:38 PM	0.279	0.291	0.301	0.318	0.32	2:53:31 PM	0.114	0.116	0.119	0.123	0.124	-0.149
2:54:38 PM	0.317	0.335	0.354	0.382	0.386	2:54:31 PM	0.106	0.108	0.11	0.114	0.115	-0.149
2:55:38 PM	0.253	0.269	0.285	0.314	0.316	2:55:31 PM	0.129	0.132	0.136	0.142	0.142	-0.149
2:56:38 PM	0.317	0.336	0.354	0.384	0.389	2:56:31 PM	0.136	0.139	0.144	0.151	0.152	-0.149
2:57:38 PM	0.317	0.336	0.354	0.384	0.386	2:57:31 PM	0.106	0.109	0.113	0.117	0.119	-0.149
2:58:38 PM	0.292	0.307	0.322	0.344	0.345	2:58:31 PM	0.084	0.086	0.089	0.093	0.094	-0.149
2:59:38 PM	0.308	0.325	0.341	0.365	0.367	2:59:31 PM	0.096	0.098	0.102	0.106	0.106	-0.149
3:00:38 PM	0.291	0.305	0.319	0.339	0.34	3:00:31 PM	0.121	0.123	0.126	0.129	0.13	-0.149
3:01:38 PM	0.236	0.247	0.258	0.275	0.276	3:01:31 PM	0.112	0.115	0.117	0.121	0.122	-0.149
3:02:38 PM	0.218	0.225	0.231	0.241	0.243	3:02:31 PM	0.106	0.108	0.112	0.116	0.116	-0.149
3:03:38 PM	0.246	0.254	0.262	0.275	0.276	3:03:31 PM	0.122	0.124	0.128	0.133	0.134	-0.149
3:04:38 PM	0.237	0.244	0.25	0.262	0.264	3:04:31 PM	0.118	0.121	0.125	0.129	0.13	-0.149
3:05:38 PM	0.196	0.202	0.208	0.218	0.219	3:05:31 PM	0.082	0.085	0.088	0.093	0.093	-0.149
3:06:38 PM	0.234	0.239	0.244	0.252	0.253	3:06:31 PM	0.107	0.11	0.113	0.118	0.118	-0.149
3:07:38 PM	0.201	0.206	0.21	0.217	0.218	3:07:31 PM	0.127	0.13	0.133	0.138	0.138	-0.149
3:08:38 PM	0.233	0.238	0.244	0.251	0.252	3:08:31 PM	0.118	0.12	0.123	0.127	0.128	-0.149
3:09:38 PM	0.243	0.25	0.256	0.268	0.269	3:09:31 PM	0.118	0.12	0.123	0.127	0.128	-0.149
3:10:38 PM	0.238	0.243	0.248	0.256	0.257	3:10:31 PM	0.111	0.113	0.117	0.121	0.122	-0.149
3:11:38 PM	0.225	0.23	0.235	0.243	0.244	3:11:31 PM	0.126	0.129	0.133	0.138	0.138	-0.149
3:12:38 PM	0.227	0.232	0.237	0.245	0.247	3:12:31 PM	0.146	0.149	0.153	0.159	0.16	-0.149
3:13:38 PM	0.215	0.22	0.225	0.234	0.235	3:13:31 PM	0.139	0.142	0.145	0.152	0.152	-0.149
3:14:38 PM	0.238	0.243	0.248	0.256	0.257	3:14:31 PM	0.141	0.144	0.148	0.154	0.155	-0.149
3:15:38 PM	0.278	0.284	0.289	0.298	0.299	3:15:31 PM	0.152	0.155	0.16	0.166	0.167	-0.149
3:16:38 PM	0.277	0.282	0.288	0.296	0.297	3:16:31 PM	0.156	0.159	0.163	0.168	0.169	-0.149
3:17:38 PM	0.265	0.27	0.274	0.281	0.283	3:17:31 PM	0.161	0.164	0.167	0.173	0.173	-0.149
3:18:38 PM	0.252	0.258	0.262	0.272	0.274	3:18:31 PM	0.155	0.157	0.16	0.164	0.164	-0.149
3:19:38 PM	0.271	0.277	0.283	0.291	0.293	3:19:31 PM	0.13	0.133	0.136	0.141	0.141	-0.149
3:20:38 PM	0.27	0.275	0.28	0.289	0.29	3:20:31 PM	0.178	0.18	0.184	0.19	0.192	-0.149
3:21:38 PM	0.282	0.287	0.292	0.301	0.301	3:21:31 PM	0.19	0.192	0.196	0.2	0.2	-0.149
3:22:38 PM	0.279	0.288	0.296	0.311	0.314	3:22:31 PM	0.175	0.177	0.181	0.185	0.186	-0.149
3:23:38 PM	0.286	0.295	0.303	0.317	0.318	3:23:31 PM	0.184	0.187	0.19	0.194	0.195	-0.149
3:24:38 PM	0.311	0.322	0.333	0.351	0.354	3:24:31 PM	0.159	0.161	0.165	0.169	0.169	-0.149
3:25:38 PM	0.337	0.354	0.372	0.401	0.403	3:25:31 PM	0.161	0.164	0.167	0.171	0.171	-0.149
3:26:38 PM	0.325	0.341	0.357	0.383	0.386	3:26:31 PM	0.141	0.143	0.145	0.15	0.152	-0.149
3:27:38 PM	0.29	0.3	0.309	0.324	0.325	3:27:31 PM	0.155	0.157	0.16	0.165	0.166	-0.149
3:28:38 PM	0.307	0.32	0.333	0.353	0.355	3:28:31 PM	0.175	0.177	0.18	0.184	0.184	-0.149
3:29:38 PM	0.278	0.286	0.293	0.306	0.307	3:29:31 PM	0.218	0.221	0.224	0.229	0.229	-0.149
3:30:38 PM	0.276	0.283	0.289	0.3	0.301	3:30:31 PM	0.23	0.233	0.236	0.24	0.241	-0.149

3:31:38 PM	0.293	0.302	0.31	0.325	0.326		3:31:31 PM	0.25	0.253	0.257	0.262	0.263	-0.149
3:32:38 PM	0.275	0.282	0.289	0.301	0.301		3:32:31 PM	0.233	0.236	0.24	0.245	0.245	-0.149
3:33:38 PM	0.265	0.271	0.277	0.288	0.289		3:33:31 PM	0.243	0.246	0.249	0.254	0.254	-0.149
3:34:38 PM	0.28	0.287	0.294	0.305	0.307		3:34:31 PM	0.206	0.209	0.213	0.218	0.218	-0.149
3:35:38 PM	0.28	0.287	0.294	0.306	0.307		3:35:31 PM	0.213	0.215	0.22	0.226	0.227	-0.149
3:36:38 PM	0.268	0.274	0.28	0.293	0.294		3:36:31 PM	0.217	0.221	0.225	0.232	0.233	-0.149
3:37:38 PM	0.259	0.269	0.278	0.292	0.292		3:37:31 PM	0.225	0.229	0.235	0.244	0.245	-0.149
3:38:38 PM	0.236	0.243	0.25	0.263	0.264		3:38:31 PM	0.243	0.246	0.251	0.256	0.257	-0.149
3:39:38 PM	0.239	0.247	0.256	0.271	0.272		3:39:31 PM	0.303	0.306	0.31	0.317	0.318	-0.149
3:40:38 PM	0.209	0.216	0.222	0.233	0.235		3:40:31 PM	0.305	0.308	0.311	0.317	0.317	-0.149
3:41:38 PM	0.189	0.196	0.203	0.215	0.216		3:41:31 PM	0.268	0.271	0.275	0.281	0.282	-0.149
3:42:38 PM	0.185	0.191	0.197	0.208	0.209		3:42:31 PM	0.269	0.272	0.276	0.281	0.281	-0.149
3:43:38 PM	0.185	0.191	0.196	0.206	0.208		3:43:31 PM	0.254	0.257	0.26	0.266	0.267	-0.149
3:44:38 PM	0.2	0.205	0.211	0.221	0.223		3:44:31 PM	0.197	0.201	0.205	0.212	0.212	-0.149
3:45:38 PM	0.221	0.227	0.234	0.247	0.248		3:45:31 PM	0.182	0.187	0.192	0.202	0.203	-0.149
3:46:38 PM	0.188	0.195	0.201	0.211	0.212		3:46:31 PM	0.183	0.188	0.194	0.203	0.204	-0.149
3:47:38 PM	0.274	0.281	0.287	0.295	0.297		3:47:31 PM	0.23	0.237	0.245	0.255	0.258	-0.149
3:48:38 PM	0.261	0.268	0.274	0.285	0.286		3:48:31 PM	0.244	0.25	0.258	0.27	0.271	-0.149
3:49:38 PM	0.273	0.28	0.287	0.298	0.299		3:49:31 PM	0.237	0.243	0.249	0.26	0.261	-0.149
3:50:38 PM	0.244	0.252	0.26	0.275	0.277		3:50:31 PM	0.216	0.221	0.227	0.234	0.235	-0.149
3:51:38 PM	0.283	0.292	0.3	0.315	0.317		3:51:31 PM	0.169	0.173	0.177	0.185	0.185	-0.149
3:52:38 PM	0.228	0.235	0.241	0.253	0.255		3:52:31 PM	0.165	0.169	0.173	0.179	0.179	-0.149
3:53:38 PM	0.236	0.243	0.249	0.261	0.262		3:53:31 PM	0.147	0.15	0.154	0.159	0.16	-0.149
3:54:38 PM	0.207	0.213	0.219	0.229	0.23		3:54:31 PM	0.167	0.17	0.174	0.18	0.181	-0.149
3:55:38 PM	0.25	0.255	0.261	0.271	0.272		3:55:31 PM	0.187	0.19	0.194	0.199	0.201	-0.149
3:56:38 PM	0.267	0.272	0.277	0.286	0.287		3:56:31 PM	0.155	0.158	0.161	0.168	0.169	-0.149
3:57:38 PM	0.272	0.278	0.284	0.294	0.294		3:57:31 PM	0.134	0.137	0.14	0.147	0.148	-0.149
3:58:38 PM	0.236	0.241	0.246	0.256	0.257		3:58:31 PM	0.148	0.151	0.155	0.159	0.16	-0.149
3:59:38 PM	0.219	0.226	0.233	0.249	0.25		3:59:31 PM	0.176	0.18	0.184	0.192	0.193	-0.149
4:00:38 PM	0.289	0.299	0.308	0.328	0.332		4:00:31 PM	0.188	0.191	0.195	0.201	0.202	-0.149
4:01:38 PM	0.289	0.295	0.3	0.309	0.31		4:01:31 PM	0.194	0.197	0.2	0.206	0.206	-0.149
4:02:38 PM	0.284	0.29	0.295	0.305	0.305		4:02:31 PM	0.207	0.21	0.214	0.219	0.22	-0.149
4:03:38 PM	0.271	0.277	0.282	0.29	0.291		4:03:31 PM	0.217	0.22	0.224	0.229	0.231	-0.149
4:04:38 PM	0.274	0.279	0.284	0.293	0.295		4:04:31 PM	0.18	0.183	0.187	0.193	0.193	-0.149
4:05:38 PM	0.289	0.294	0.299	0.307	0.309		4:05:31 PM	0.194	0.196	0.2	0.203	0.204	-0.149
4:06:38 PM	0.294	0.299	0.304	0.312	0.312		4:06:31 PM	0.251	0.253	0.257	0.261	0.261	-0.149
4:07:38 PM	0.287	0.291	0.295	0.301	0.303		4:07:31 PM	0.246	0.249	0.252	0.256	0.256	-0.149
4:08:38 PM	0.274	0.28	0.285	0.293	0.294		4:08:31 PM	0.23	0.232	0.235	0.24	0.241	-0.149
4:09:38 PM	0.288	0.293	0.298	0.306	0.307		4:09:31 PM	0.201	0.203	0.207	0.211	0.212	-0.149
4:10:38 PM	0.31	0.315	0.32	0.327	0.328		4:10:31 PM	0.216	0.218	0.222	0.228	0.23	-0.149
4:11:38 PM	0.272	0.276	0.282	0.29	0.291		4:11:31 PM	0.259	0.262	0.266	0.272	0.272	-0.149
4:12:38 PM	0.272	0.277	0.282	0.291	0.292		4:12:31 PM	0.246	0.249	0.253	0.259	0.26	-0.149
4:13:38 PM	0.27	0.276	0.282	0.292	0.292		4:13:31 PM	0.211	0.214	0.218	0.223	0.224	-0.149
4:14:38 PM	0.262	0.269	0.277	0.288	0.29		4:14:31 PM	0.186	0.189	0.192	0.197	0.197	-0.149
4:15:38 PM	0.232	0.239	0.245	0.258	0.259		4:15:31 PM	0.182	0.185	0.188	0.194	0.195	-0.149
4:16:38 PM	0.242	0.249	0.257	0.272	0.272		4:16:31 PM	0.202	0.205	0.209	0.214	0.215	-0.149
4:17:38 PM	0.269	0.281	0.293	0.312	0.315		4:17:31 PM	0.201	0.204	0.208	0.214	0.215	-0.149
4:18:38 PM	0.263	0.275	0.285	0.303	0.304		4:18:31 PM	0.207	0.209	0.213	0.218	0.219	-0.149
4:19:38 PM	0.229	0.238	0.248	0.264	0.265		4:19:31 PM	0.175	0.178	0.182	0.188	0.188	-0.149
4:20:38 PM	0.236	0.243	0.25	0.264	0.264		4:20:31 PM	0.131	0.134	0.137	0.141	0.142	-0.149
4:21:38 PM	0.225	0.231	0.238	0.25	0.251		4:21:31 PM	0.127	0.129	0.132	0.138	0.138	-0.149
4:22:38 PM	0.243	0.25	0.256	0.268	0.27		4:22:31 PM	0.14	0.142	0.145	0.15	0.151	-0.149
4:23:38 PM	0.241	0.246	0.252	0.262	0.264		4:23:31 PM	0.13	0.133	0.136	0.142	0.143	-0.149
4:24:38 PM	0.22	0.225	0.23	0.24	0.241		4:24:31 PM	0.135	0.137	0.141	0.147	0.148	-0.149
4:25:38 PM	0.27	0.275	0.281	0.291	0.292		4:25:31 PM	0.161	0.164	0.167	0.172	0.173	-0.149
4:26:38 PM	0.243	0.248	0.253	0.26	0.262		4:26:31 PM	0.161	0.164	0.167	0.174	0.174	-0.149
4:27:38 PM	0.257	0.262	0.266	0.274	0.275		4:27:31 PM	0.137	0.139	0.143	0.15	0.15	-0.149
4:28:38 PM	0.252	0.256	0.262	0.271	0.273		4:28:31 PM	0.128	0.131	0.135	0.141	0.141	-0.149
4:29:38 PM	0.216	0.221	0.226	0.235	0.236		4:29:31 PM	0.117	0.119	0.123	0.128	0.13	-0.149
4:30:38 PM	0.229	0.233	0.237	0.247	0.248		4:30:31 PM	0.114	0.117	0.121	0.127	0.128	-0.149

4:31:38 PM	0.234	0.238	0.242	0.25	0.25	4:31:31 PM	0.114	0.116	0.12	0.126	0.126	-0.149
4:32:38 PM	0.24	0.244	0.248	0.255	0.256	4:32:31 PM	0.11	0.113	0.117	0.122	0.123	-0.149
4:33:38 PM	0.231	0.235	0.239	0.246	0.246	4:33:31 PM	0.108	0.111	0.115	0.121	0.121	-0.149
4:34:38 PM	0.233	0.238	0.243	0.251	0.251	4:34:31 PM	0.108	0.11	0.114	0.119	0.12	-0.149
4:35:38 PM	0.204	0.209	0.215	0.223	0.224	4:35:31 PM	0.109	0.111	0.115	0.121	0.122	-0.149
4:36:38 PM	0.175	0.18	0.185	0.192	0.194	4:36:31 PM	0.105	0.108	0.112	0.117	0.118	-0.149
4:37:38 PM	0.15	0.154	0.158	0.166	0.168	4:37:31 PM	0.095	0.097	0.1	0.106	0.106	-0.149
4:38:38 PM	0.205	0.209	0.214	0.223	0.224	4:38:31 PM	0.095	0.097	0.1	0.105	0.106	-0.149
4:39:38 PM	0.174	0.178	0.182	0.19	0.192	4:39:31 PM	0.107	0.109	0.113	0.118	0.118	-0.149
4:40:38 PM	0.18	0.184	0.188	0.196	0.197	4:40:31 PM	0.101	0.104	0.107	0.113	0.113	-0.149
4:41:38 PM	0.163	0.167	0.171	0.179	0.181	4:41:31 PM	0.087	0.089	0.093	0.098	0.099	-0.149
4:42:38 PM	0.179	0.183	0.187	0.195	0.196	4:42:31 PM	0.101	0.104	0.108	0.113	0.113	-0.149
4:43:38 PM	0.213	0.22	0.228	0.241	0.243	4:43:31 PM	0.109	0.112	0.116	0.121	0.121	-0.149
4:44:38 PM	0.191	0.196	0.202	0.211	0.212	4:44:31 PM	0.107	0.109	0.113	0.118	0.12	-0.149
4:45:38 PM	0.201	0.206	0.211	0.221	0.222	4:45:31 PM	0.132	0.135	0.138	0.144	0.144	-0.149
4:46:38 PM	0.212	0.217	0.223	0.231	0.233	4:46:31 PM	0.137	0.14	0.143	0.149	0.15	-0.149
4:47:38 PM	0.218	0.223	0.228	0.237	0.238	4:47:31 PM	0.118	0.121	0.124	0.13	0.131	-0.149
4:48:38 PM	0.232	0.237	0.243	0.253	0.254	4:48:31 PM	0.108	0.11	0.113	0.119	0.12	-0.149
4:49:38 PM	0.241	0.247	0.253	0.264	0.265	4:49:31 PM	0.107	0.109	0.112	0.117	0.118	-0.149
4:50:38 PM	0.207	0.212	0.218	0.228	0.228	4:50:31 PM	0.088	0.091	0.093	0.098	0.098	-0.149
4:51:38 PM	0.212	0.22	0.228	0.242	0.244	4:51:31 PM	0.113	0.115	0.118	0.123	0.123	-0.149
4:52:38 PM	0.238	0.247	0.257	0.274	0.274	4:52:31 PM	0.148	0.15	0.153	0.16	0.161	-0.149
4:53:38 PM	0.251	0.263	0.274	0.294	0.296	4:53:31 PM	0.149	0.151	0.155	0.16	0.161	-0.149
4:54:38 PM	0.255	0.265	0.275	0.293	0.294	4:54:31 PM	0.119	0.122	0.125	0.129	0.13	-0.149
4:55:38 PM	0.248	0.256	0.265	0.283	0.285	4:55:31 PM	0.135	0.137	0.14	0.146	0.147	-0.149
4:56:38 PM	0.245	0.254	0.264	0.282	0.283	4:56:31 PM	0.152	0.154	0.157	0.161	0.161	-0.149
4:57:38 PM	0.252	0.263	0.273	0.29	0.292	4:57:31 PM	0.154	0.156	0.159	0.164	0.165	-0.149
4:58:38 PM	0.225	0.232	0.24	0.254	0.255	4:58:31 PM	0.12	0.122	0.125	0.129	0.129	-0.149
4:59:38 PM	0.222	0.228	0.235	0.246	0.248	4:59:31 PM	0.151	0.153	0.156	0.161	0.162	-0.149
5:00:38 PM	0.217	0.223	0.23	0.241	0.241	5:00:31 PM	0.172	0.174	0.178	0.183	0.183	-0.149
5:01:38 PM	0.155	0.16	0.165	0.177	0.177	5:01:31 PM	0.141	0.144	0.148	0.154	0.154	-0.149
5:02:38 PM	0.084	0.087	0.092	0.102	0.103	5:02:31 PM	0.065	0.068	0.072	0.08	0.081	-0.149
5:03:38 PM	0.216	0.222	0.229	0.243	0.243	5:03:31 PM	0.098	0.1	0.104	0.111	0.114	-0.149
5:04:38 PM	0.256	0.264	0.272	0.288	0.289	5:04:31 PM	0.09	0.093	0.096	0.102	0.103	-0.149
5:05:38 PM	0.266	0.272	0.278	0.289	0.289	5:05:31 PM	0.148	0.151	0.154	0.159	0.159	-0.149
5:06:38 PM	0.301	0.309	0.318	0.334	0.335	5:06:31 PM	0.17	0.173	0.176	0.18	0.181	-0.149
5:07:38 PM	0.264	0.27	0.275	0.287	0.287	5:07:31 PM	0.173	0.175	0.178	0.183	0.184	-0.149
5:08:38 PM	0.183	0.188	0.192	0.201	0.201	5:08:31 PM	0.157	0.159	0.162	0.167	0.168	-0.149
5:09:38 PM	0.236	0.242	0.248	0.258	0.259	5:09:31 PM	0.168	0.17	0.173	0.178	0.18	-0.149
5:10:38 PM	0.156	0.161	0.166	0.178	0.179	5:10:31 PM	0.139	0.142	0.145	0.151	0.151	-0.149
5:11:38 PM	0.062	0.065	0.068	0.075	0.076	5:11:31 PM	0.111	0.113	0.116	0.121	0.122	-0.149
5:12:38 PM	0.211	0.216	0.222	0.234	0.235	5:12:31 PM	0.096	0.098	0.101	0.105	0.105	-0.149
5:13:38 PM	0.295	0.302	0.31	0.325	0.326	5:13:31 PM	0.11	0.112	0.114	0.119	0.119	-0.149
5:14:38 PM	0.293	0.299	0.306	0.318	0.319	5:14:31 PM	0.161	0.163	0.166	0.17	0.17	-0.149
5:15:38 PM	0.32	0.327	0.336	0.35	0.351	5:15:31 PM	0.194	0.197	0.2	0.204	0.204	-0.149
5:16:38 PM	0.327	0.335	0.344	0.36	0.361	5:16:31 PM	0.18	0.182	0.185	0.189	0.19	-0.149
5:17:38 PM	0.32	0.328	0.337	0.352	0.355	5:17:31 PM	0.156	0.158	0.161	0.165	0.166	-0.149
5:18:38 PM	0.301	0.309	0.32	0.337	0.34	5:18:31 PM	0.183	0.185	0.187	0.191	0.191	-0.149
5:19:38 PM	0.299	0.308	0.319	0.337	0.338	5:19:31 PM	0.131	0.133	0.136	0.141	0.141	-0.149
5:20:38 PM	0.233	0.24	0.248	0.262	0.264	5:20:31 PM	0.172	0.175	0.177	0.182	0.183	-0.149
5:21:38 PM	0.279	0.287	0.294	0.306	0.307	5:21:31 PM	0.174	0.177	0.18	0.184	0.184	-0.149
5:22:38 PM	0.271	0.278	0.285	0.297	0.298	5:22:31 PM	0.187	0.189	0.192	0.195	0.196	-0.149
5:23:38 PM	0.278	0.285	0.291	0.302	0.303	5:23:31 PM	0.183	0.185	0.188	0.192	0.193	-0.149
5:24:38 PM	0.261	0.267	0.273	0.285	0.287	5:24:31 PM	0.177	0.179	0.183	0.189	0.189	-0.149
5:25:38 PM	0.254	0.26	0.266	0.276	0.276	5:25:31 PM	0.197	0.2	0.203	0.209	0.209	-0.149
5:26:38 PM	0.257	0.264	0.272	0.285	0.287	5:26:31 PM	0.175	0.179	0.184	0.191	0.193	-0.149
5:27:38 PM	0.236	0.249	0.262	0.284	0.286	5:27:31 PM	0.145	0.148	0.153	0.159	0.159	-0.149
5:28:38 PM	0.274	0.287	0.3	0.321	0.325	5:28:31 PM	0.169	0.172	0.176	0.181	0.181	-0.149
5:29:38 PM	0.274	0.288	0.304	0.329	0.33	5:29:31 PM	0.161	0.164	0.168	0.174	0.174	-0.149
5:30:38 PM	0.315	0.331	0.347	0.374	0.377	5:30:31 PM	0.26	0.263	0.267	0.274	0.274	-0.149

5:31:38 PM	0.325	0.341	0.357	0.383	0.385		5:31:31 PM	0.233	0.236	0.239	0.246	0.246	-0.149
5:32:38 PM	0.336	0.348	0.361	0.383	0.386		5:32:31 PM	0.219	0.222	0.226	0.231	0.231	-0.149
5:33:38 PM	0.333	0.346	0.359	0.381	0.382		5:33:31 PM	0.226	0.229	0.232	0.236	0.237	-0.149
5:34:38 PM	0.319	0.331	0.342	0.363	0.366		5:34:31 PM	0.232	0.235	0.239	0.244	0.246	-0.149
5:35:38 PM	0.326	0.339	0.353	0.376	0.378		5:35:31 PM	0.247	0.25	0.254	0.259	0.26	-0.149
5:36:38 PM	0.307	0.321	0.334	0.354	0.356		5:36:31 PM	0.188	0.19	0.194	0.201	0.201	-0.149
5:37:38 PM	0.272	0.281	0.29	0.307	0.308		5:37:31 PM	0.174	0.176	0.18	0.185	0.185	-0.149
5:38:38 PM	0.309	0.321	0.333	0.354	0.356		5:38:31 PM	0.19	0.193	0.197	0.203	0.203	-0.149
5:39:38 PM	0.285	0.298	0.311	0.333	0.335		5:39:31 PM	0.192	0.194	0.198	0.203	0.203	-0.149
5:40:38 PM	0.296	0.31	0.325	0.349	0.35		5:40:31 PM	0.181	0.184	0.188	0.193	0.194	-0.149
5:41:38 PM	0.24	0.248	0.256	0.268	0.269		5:41:31 PM	0.216	0.219	0.223	0.228	0.229	-0.149
5:42:38 PM	0.244	0.249	0.255	0.265	0.266		5:42:31 PM	0.251	0.254	0.258	0.265	0.265	-0.149
5:43:38 PM	0.245	0.251	0.256	0.265	0.265		5:43:31 PM	0.254	0.257	0.261	0.266	0.266	-0.149
5:44:38 PM	0.245	0.25	0.254	0.262	0.263		5:44:31 PM	0.253	0.256	0.26	0.264	0.265	-0.149
5:45:38 PM	0.231	0.236	0.241	0.25	0.25		5:45:31 PM	0.245	0.247	0.251	0.256	0.257	-0.149
5:46:38 PM	0.229	0.234	0.239	0.245	0.246		5:46:31 PM	0.24	0.242	0.246	0.25	0.25	-0.149
5:47:38 PM	0.237	0.242	0.246	0.254	0.256		5:47:31 PM	0.228	0.231	0.235	0.24	0.241	-0.149

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	3.3
Calibration Date	2/24/2015
Test Name	MANUAL_003
Test Start Time	9:22:32 AM
Test Start Date	4/30/2015
Test Length [D:H:M]	0:07:03
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.063
PM1 Minimum [mg/m3]	0.018
PM1 Maximum [mg/m3]	0.29
PM1 TWA [mg/m3]	0.056
PM2.5 Average [mg/m3]	0.068
PM2.5 Minimum [mg/m3]	0.019
PM2.5 Maximum [mg/m3]	0.293
PM2.5 TWA [mg/m3]	0.06
PM4 Average [mg/m3]	0.075
PM4 Minimum [mg/m3]	0.021
PM4 Maximum [mg/m3]	0.298
PM4 TWA [mg/m3]	0.066
PM10 Average [mg/m3]	0.089
PM10 Minimum [mg/m3]	0.024
PM10 Maximum [mg/m3]	0.371
PM10 TWA [mg/m3]	0.079
TOTAL Average [mg/m3]	0.09
TOTAL Minimum [mg/m3]	0.025
TOTAL Maximum [mg/m3]	0.376
TOTAL TWA [mg/m3]	0.08
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	
Number of Samples	423

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms	Errors
9:22:32 AM	0.033	0.039	0.045	0.057	0.061		
9:23:32 AM	0.031	0.036	0.042	0.055	0.056		
9:24:32 AM	0.025	0.029	0.034	0.042	0.043		
9:25:32 AM	0.026	0.03	0.035	0.043	0.043		
9:26:32 AM	0.023	0.027	0.031	0.038	0.038		
9:27:32 AM	0.021	0.024	0.028	0.036	0.036		
9:28:32 AM	0.026	0.03	0.035	0.044	0.045		
9:29:32 AM	0.041	0.047	0.056	0.073	0.074		
9:30:32 AM	0.069	0.075	0.084	0.1	0.102		
9:31:32 AM	0.065	0.07	0.078	0.093	0.094		
9:32:32 AM	0.049	0.054	0.062	0.075	0.076		
9:33:32 AM	0.02	0.022	0.025	0.028	0.029		
9:34:32 AM	0.02	0.022	0.024	0.029	0.03		
9:35:32 AM	0.02	0.022	0.024	0.029	0.029		
9:36:32 AM	0.032	0.036	0.042	0.051	0.052		
9:37:32 AM	0.04	0.044	0.05	0.062	0.062		
9:38:32 AM	0.04	0.045	0.051	0.061	0.062		
9:39:32 AM	0.047	0.053	0.06	0.074	0.074		
9:40:32 AM	0.055	0.061	0.07	0.085	0.086		
9:41:32 AM	0.046	0.052	0.059	0.071	0.072		
9:42:32 AM	0.039	0.044	0.05	0.06	0.06		
9:43:32 AM	0.036	0.041	0.047	0.059	0.059		
9:44:32 AM	0.049	0.055	0.064	0.08	0.082		
9:45:32 AM	0.052	0.059	0.069	0.088	0.089		

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132901
Firmware Version	3
Calibration Date	7/9/2014
Test Name	MANUAL_002
Test Start Time	9:21:54 AM
Test Start Date	4/30/2015
Test Length [D:H:M]	0:07:42
Test Interval [M:S]	1:00
PM1 Average [mg/m3]	0.039
PM1 Minimum [mg/m3]	0
PM1 Maximum [mg/m3]	0.13
PM1 TWA [mg/m3]	0.037
PM2.5 Average [mg/m3]	0.041
PM2.5 Minimum [mg/m3]	0
PM2.5 Maximum [mg/m3]	0.137
PM2.5 TWA [mg/m3]	0.039
PM4 Average [mg/m3]	0.043
PM4 Minimum [mg/m3]	0
PM4 Maximum [mg/m3]	0.145
PM4 TWA [mg/m3]	0.041
PM10 Average [mg/m3]	0.045
PM10 Minimum [mg/m3]	0
PM10 Maximum [mg/m3]	0.151
PM10 TWA [mg/m3]	0.043
TOTAL Average [mg/m3]	0.045
TOTAL Minimum [mg/m3]	0
TOTAL Maximum [mg/m3]	0.151
TOTAL TWA [mg/m3]	0.043
Photometric User Cal	1
Size Correction User Cal	1
Flow User Cal	0
Errors	Flow Error
Number of Samples	459

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg	PM4 [mg/r	PM10 [mg,	TOTAL [mg	Alarms	Errors	**Difference**
9:21:54 AM	0.026	0.029	0.032	0.034	0.035			0.035
9:22:54 AM	0.025	0.028	0.03	0.032	0.032			-0.029
9:23:54 AM	0.022	0.025	0.027	0.029	0.029			-0.027
9:24:54 AM	0.019	0.021	0.023	0.024	0.024			-0.019
9:25:54 AM	0.021	0.023	0.025	0.027	0.027			-0.016
9:26:54 AM	0.019	0.021	0.023	0.026	0.026			-0.012
9:27:54 AM	0.015	0.017	0.019	0.02	0.02			-0.016
9:28:54 AM	0.016	0.017	0.019	0.02	0.02			-0.025
9:29:54 AM	0.02	0.022	0.025	0.027	0.027			-0.047
9:30:54 AM	0.02	0.022	0.025	0.026	0.027			-0.075
9:31:54 AM	0.024	0.027	0.03	0.031	0.032			-0.062
9:32:54 AM	0.029	0.031	0.034	0.036	0.037			-0.039
9:33:54 AM	0.025	0.027	0.03	0.031	0.031			0.002
9:34:54 AM	0.024	0.027	0.029	0.031	0.031			0.001
9:35:54 AM	0.027	0.029	0.032	0.034	0.034			0.005
9:36:54 AM	0.022	0.024	0.026	0.028	0.028			-0.024
9:37:54 AM	0.023	0.025	0.027	0.029	0.029			-0.033
9:38:54 AM	0.021	0.023	0.025	0.027	0.027			-0.035
9:39:54 AM	0.022	0.024	0.027	0.028	0.028			-0.046
9:40:54 AM	0.023	0.025	0.027	0.029	0.03			-0.056
9:41:54 AM	0.022	0.024	0.026	0.026	0.026			-0.046
9:42:54 AM	0.02	0.022	0.024	0.025	0.025			-0.035
9:43:54 AM	0.02	0.022	0.024	0.025	0.025			-0.034
9:44:54 AM	0.024	0.027	0.03	0.032	0.032			-0.05
9:45:54 AM	0.027	0.03	0.034	0.036	0.036			-0.053

9:46:32 AM	0.062	0.07	0.083	0.109	0.111	9:46:54 AM	0.02	0.022	0.025	0.026	0.026	-0.085
9:47:32 AM	0.053	0.061	0.072	0.095	0.097	9:47:54 AM	0.023	0.025	0.028	0.03	0.03	-0.067
9:48:32 AM	0.038	0.044	0.052	0.069	0.07	9:48:54 AM	0.017	0.019	0.021	0.022	0.022	-0.048
9:49:32 AM	0.026	0.029	0.035	0.046	0.047	9:49:54 AM	0.016	0.017	0.019	0.02	0.021	-0.026
9:50:32 AM	0.024	0.027	0.032	0.04	0.04	9:50:54 AM	0.017	0.019	0.021	0.022	0.022	-0.018
9:51:32 AM	0.02	0.022	0.026	0.031	0.032	9:51:54 AM	0.015	0.017	0.019	0.02	0.02	-0.012
9:52:32 AM	0.024	0.026	0.03	0.035	0.035	9:52:54 AM	0.016	0.018	0.02	0.021	0.021	-0.014
9:53:32 AM	0.06	0.063	0.068	0.077	0.079	9:53:54 AM	0.018	0.02	0.021	0.022	0.022	-0.057
9:54:32 AM	0.073	0.078	0.084	0.095	0.096	9:54:54 AM	0.024	0.026	0.027	0.028	0.028	-0.068
9:55:32 AM	0.129	0.139	0.151	0.173	0.174	9:55:54 AM	0.026	0.027	0.029	0.03	0.03	-0.144
9:56:32 AM	0.062	0.067	0.073	0.084	0.085	9:56:54 AM	0.025	0.026	0.028	0.028	0.028	-0.057
9:57:32 AM	0.03	0.032	0.035	0.04	0.04	9:57:54 AM	0.021	0.022	0.023	0.024	0.024	-0.016
9:58:32 AM	0.024	0.026	0.028	0.031	0.032	9:58:54 AM	0.01	0.011	0.011	0.011	0.011	-0.021
9:59:32 AM	0.019	0.021	0.022	0.025	0.025	9:59:54 AM	0.01	0.011	0.011	0.012	0.012	-0.013
10:00:32 AM	0.039	0.042	0.047	0.054	0.054	10:00:54 AM	0.01	0.011	0.011	0.012	0.012	-0.042
10:01:32 AM	0.019	0.02	0.022	0.025	0.025	10:01:54 AM	0.01	0.011	0.011	0.011	0.011	-0.014
10:02:32 AM	0.019	0.021	0.023	0.025	0.025	10:02:54 AM	0.012	0.013	0.013	0.014	0.014	-0.011
10:03:32 AM	0.037	0.04	0.045	0.052	0.052	10:03:54 AM	0.014	0.015	0.016	0.017	0.017	-0.035
10:04:32 AM	0.049	0.053	0.06	0.07	0.071	10:04:54 AM	0.015	0.016	0.017	0.017	0.017	-0.054
10:05:32 AM	0.07	0.076	0.084	0.098	0.1	10:05:54 AM	0.014	0.014	0.015	0.016	0.016	-0.084
10:06:32 AM	0.085	0.092	0.102	0.122	0.122	10:06:54 AM	0.018	0.018	0.019	0.02	0.02	-0.102
10:07:32 AM	0.105	0.114	0.126	0.146	0.147	10:07:54 AM	0.013	0.014	0.015	0.015	0.015	-0.132
10:08:32 AM	0.09	0.098	0.109	0.127	0.129	10:08:54 AM	0.014	0.015	0.016	0.016	0.016	-0.113
10:09:32 AM	0.093	0.1	0.11	0.13	0.132	10:09:54 AM	0.014	0.015	0.016	0.016	0.016	-0.116
10:10:32 AM	0.102	0.107	0.113	0.124	0.125	10:10:54 AM	0.017	0.018	0.019	0.02	0.02	-0.105
10:11:32 AM	0.086	0.092	0.099	0.112	0.113	10:11:54 AM	0.048	0.051	0.053	0.055	0.055	-0.058
10:12:32 AM	0.084	0.089	0.097	0.11	0.112	10:12:54 AM	0.057	0.06	0.063	0.066	0.066	-0.046
10:13:32 AM	0.086	0.091	0.098	0.113	0.114	10:13:54 AM	0.023	0.025	0.028	0.029	0.03	-0.084
10:14:32 AM	0.089	0.096	0.108	0.128	0.13	10:14:54 AM	0.022	0.024	0.026	0.028	0.028	-0.102
10:15:32 AM	0.098	0.106	0.12	0.146	0.148	10:15:54 AM	0.026	0.028	0.031	0.032	0.032	-0.116
10:16:32 AM	0.094	0.103	0.117	0.142	0.143	10:16:54 AM	0.033	0.035	0.039	0.041	0.041	-0.102
10:17:32 AM	0.085	0.093	0.107	0.133	0.135	10:17:54 AM	0.02	0.022	0.024	0.026	0.026	-0.109
10:18:32 AM	0.08	0.087	0.098	0.12	0.122	10:18:54 AM	0.022	0.024	0.026	0.028	0.028	-0.094
10:19:32 AM	0.075	0.081	0.09	0.108	0.109	10:19:54 AM	0.023	0.025	0.027	0.03	0.03	-0.079
10:20:32 AM	0.087	0.093	0.103	0.126	0.128	10:20:54 AM	0.02	0.021	0.023	0.024	0.024	-0.104
10:21:32 AM	0.079	0.086	0.097	0.12	0.121	10:21:54 AM	0.025	0.027	0.03	0.033	0.033	-0.088
10:22:32 AM	0.069	0.075	0.084	0.1	0.102	10:22:54 AM	0.026	0.028	0.031	0.033	0.033	-0.069
10:23:32 AM	0.066	0.071	0.079	0.096	0.097	10:23:54 AM	0.035	0.038	0.042	0.046	0.046	-0.051
10:24:32 AM	0.059	0.063	0.07	0.084	0.084	10:24:54 AM	0.03	0.032	0.035	0.037	0.037	-0.047
10:25:32 AM	0.044	0.048	0.053	0.064	0.064	10:25:54 AM	0.027	0.029	0.03	0.032	0.032	-0.032
10:26:32 AM	0.04	0.044	0.049	0.058	0.058	10:26:54 AM	0.033	0.036	0.038	0.04	0.041	-0.017
10:27:32 AM	0.039	0.042	0.047	0.055	0.055	10:27:54 AM	0.029	0.031	0.033	0.034	0.035	-0.02
10:28:32 AM	0.042	0.046	0.051	0.064	0.064	10:28:54 AM	0.03	0.032	0.034	0.035	0.035	-0.029
10:29:32 AM	0.044	0.048	0.055	0.066	0.066	10:29:54 AM	0.023	0.025	0.026	0.028	0.028	-0.038
10:30:32 AM	0.042	0.045	0.052	0.062	0.063	10:30:54 AM	0.025	0.027	0.028	0.03	0.03	-0.033
10:31:32 AM	0.057	0.063	0.072	0.09	0.091	10:31:54 AM	0.033	0.036	0.039	0.041	0.041	-0.05
10:32:32 AM	0.064	0.071	0.082	0.104	0.104	10:32:54 AM	0.03	0.032	0.035	0.037	0.037	-0.067
10:33:32 AM	0.059	0.065	0.074	0.091	0.093	10:33:54 AM	0.023	0.025	0.027	0.028	0.028	-0.065
10:34:32 AM	0.057	0.062	0.071	0.086	0.088	10:34:54 AM	0.022	0.024	0.026	0.027	0.027	-0.061
10:35:32 AM	0.054	0.059	0.067	0.083	0.083	10:35:54 AM	0.024	0.026	0.028	0.029	0.029	-0.054
10:36:32 AM	0.049	0.053	0.059	0.073	0.075	10:36:54 AM	0.027	0.029	0.032	0.033	0.033	-0.042
10:37:32 AM	0.043	0.047	0.052	0.063	0.064	10:37:54 AM	0.026	0.028	0.03	0.032	0.032	-0.032
10:38:32 AM	0.043	0.046	0.052	0.064	0.064	10:38:54 AM	0.02	0.021	0.022	0.023	0.023	-0.041
10:39:32 AM	0.04	0.043	0.048	0.058	0.058	10:39:54 AM	0.021	0.022	0.023	0.025	0.025	-0.033
10:40:32 AM	0.038	0.041	0.046	0.056	0.056	10:40:54 AM	0.019	0.02	0.021	0.022	0.022	-0.034
10:41:32 AM	0.053	0.059	0.067	0.081	0.083	10:41:54 AM	0.028	0.03	0.032	0.033	0.033	-0.05
10:42:32 AM	0.072	0.081	0.094	0.117	0.119	10:42:54 AM	0.023	0.024	0.026	0.027	0.027	-0.092
10:43:32 AM	0.061	0.069	0.079	0.095	0.096	10:43:54 AM	0.019	0.02	0.021	0.022	0.022	-0.074
10:44:32 AM	0.057	0.064	0.074	0.089	0.089	10:44:54 AM	0.022	0.023	0.025	0.026	0.026	-0.063
10:45:32 AM	0.056	0.062	0.072	0.087	0.088	10:45:54 AM	0.02	0.021	0.022	0.023	0.023	-0.065
10:46:32 AM	0.057	0.064	0.073	0.09	0.091	10:46:54 AM	0.017	0.018	0.019	0.02	0.02	-0.071
10:47:32 AM	0.072	0.081	0.094	0.12	0.122	10:47:54 AM	0.031	0.033	0.037	0.039	0.039	-0.083
10:48:32 AM	0.073	0.082	0.096	0.122	0.123	10:48:54 AM	0.025	0.027	0.03	0.032	0.032	-0.091
10:49:32 AM	0.061	0.069	0.081	0.103	0.104	10:49:54 AM	0.024	0.026	0.028	0.029	0.029	-0.075

10:50:32 AM	0.086	0.097	0.115	0.149	0.151	10:50:54 AM	0.025	0.028	0.03	0.032	0.032	-0.119
10:51:32 AM	0.073	0.083	0.097	0.125	0.128	10:51:54 AM	0.026	0.029	0.032	0.033	0.033	-0.095
10:52:32 AM	0.074	0.084	0.099	0.13	0.132	10:52:54 AM	0.025	0.027	0.029	0.03	0.03	-0.102
10:53:32 AM	0.073	0.082	0.096	0.125	0.126	10:53:54 AM	0.023	0.025	0.027	0.029	0.029	-0.097
10:54:32 AM	0.074	0.084	0.099	0.126	0.129	10:54:54 AM	0.02	0.022	0.024	0.025	0.025	-0.104
10:55:32 AM	0.065	0.074	0.086	0.112	0.113	10:55:54 AM	0.022	0.024	0.026	0.027	0.027	-0.086
10:56:32 AM	0.063	0.07	0.08	0.1	0.106	10:56:54 AM	0.02	0.021	0.023	0.024	0.024	-0.082
10:57:32 AM	0.05	0.057	0.067	0.087	0.093	10:57:54 AM	0.02	0.022	0.023	0.024	0.024	-0.069
10:58:32 AM	0.05	0.056	0.065	0.083	0.084	10:58:54 AM	0.017	0.018	0.019	0.02	0.02	-0.064
10:59:32 AM	0.052	0.059	0.069	0.086	0.087	10:59:54 AM	0.016	0.017	0.018	0.019	0.019	-0.068
11:00:32 AM	0.041	0.046	0.054	0.066	0.067	11:00:54 AM	0.015	0.016	0.017	0.018	0.018	-0.049
11:01:32 AM	0.043	0.048	0.056	0.071	0.071	11:01:54 AM	0.016	0.017	0.018	0.019	0.019	-0.052
11:02:32 AM	0.04	0.044	0.052	0.065	0.066	11:02:54 AM	0.015	0.016	0.017	0.018	0.018	-0.048
11:03:32 AM	0.049	0.054	0.063	0.079	0.08	11:03:54 AM	0.014	0.015	0.016	0.016	0.016	-0.064
11:04:32 AM	0.067	0.074	0.084	0.103	0.104	11:04:54 AM	0.013	0.014	0.015	0.015	0.015	-0.089
11:05:32 AM	0.078	0.084	0.093	0.107	0.108	11:05:54 AM	0.015	0.015	0.016	0.017	0.017	-0.091
11:06:32 AM	0.071	0.076	0.084	0.101	0.102	11:06:54 AM	0.015	0.016	0.017	0.018	0.018	-0.084
11:07:32 AM	0.077	0.085	0.097	0.119	0.121	11:07:54 AM	0.016	0.017	0.018	0.019	0.019	-0.102
11:08:32 AM	0.081	0.089	0.101	0.121	0.121	11:08:54 AM	0.016	0.017	0.019	0.02	0.02	-0.101
11:09:32 AM	0.061	0.067	0.076	0.092	0.094	11:09:54 AM	0.017	0.018	0.019	0.02	0.02	-0.074
11:10:32 AM	0.067	0.073	0.082	0.098	0.099	11:10:54 AM	0.018	0.02	0.021	0.022	0.022	-0.077
11:11:32 AM	0.067	0.072	0.081	0.098	0.1	11:11:54 AM	0.026	0.028	0.03	0.031	0.031	-0.069
11:12:32 AM	0.059	0.065	0.072	0.089	0.09	11:12:54 AM	0.038	0.04	0.043	0.045	0.046	-0.044
11:13:32 AM	0.068	0.073	0.082	0.1	0.101	11:13:54 AM	0.037	0.039	0.041	0.043	0.043	-0.058
11:14:32 AM	0.072	0.079	0.089	0.108	0.109	11:14:54 AM	0.027	0.029	0.031	0.033	0.033	-0.076
11:15:32 AM	0.073	0.08	0.089	0.107	0.108	11:15:54 AM	0.025	0.027	0.028	0.029	0.029	-0.079
11:16:32 AM	0.09	0.099	0.111	0.134	0.134	11:16:54 AM	0.041	0.044	0.047	0.048	0.049	-0.085
11:17:32 AM	0.089	0.098	0.11	0.131	0.134	11:17:54 AM	0.03	0.032	0.033	0.034	0.034	-0.1
11:18:32 AM	0.091	0.1	0.112	0.136	0.138	11:18:54 AM	0.038	0.04	0.042	0.044	0.044	-0.094
11:19:32 AM	0.086	0.093	0.104	0.124	0.126	11:19:54 AM	0.047	0.049	0.051	0.053	0.053	-0.073
11:20:32 AM	0.083	0.09	0.1	0.118	0.119	11:20:54 AM	0.044	0.045	0.047	0.048	0.048	-0.071
11:21:32 AM	0.093	0.101	0.113	0.134	0.136	11:21:54 AM	0.048	0.05	0.051	0.052	0.052	-0.084
11:22:32 AM	0.106	0.117	0.132	0.157	0.158	11:22:54 AM	0.067	0.071	0.074	0.077	0.077	-0.081
11:23:32 AM	0.098	0.108	0.12	0.141	0.143	11:23:54 AM	0.043	0.045	0.047	0.048	0.048	-0.095
11:24:32 AM	0.085	0.093	0.103	0.119	0.12	11:24:54 AM	0.058	0.06	0.063	0.065	0.065	-0.055
11:25:32 AM	0.072	0.077	0.084	0.097	0.098	11:25:54 AM	0.053	0.055	0.058	0.059	0.06	-0.038
11:26:32 AM	0.074	0.08	0.087	0.1	0.101	11:26:54 AM	0.052	0.054	0.056	0.057	0.057	-0.044
11:27:32 AM	0.072	0.077	0.084	0.096	0.098	11:27:54 AM	0.046	0.048	0.049	0.051	0.051	-0.047
11:28:32 AM	0.07	0.075	0.082	0.094	0.095	11:28:54 AM	0.049	0.05	0.052	0.053	0.054	-0.041
11:29:32 AM	0.075	0.08	0.087	0.1	0.1	11:29:54 AM	0.05	0.052	0.054	0.056	0.056	-0.044
11:30:32 AM	0.074	0.079	0.086	0.097	0.099	11:30:54 AM	0.048	0.049	0.051	0.052	0.052	-0.047
11:31:32 AM	0.077	0.082	0.089	0.104	0.106	11:31:54 AM	0.049	0.05	0.051	0.053	0.053	-0.053
11:32:32 AM	0.079	0.084	0.09	0.103	0.103	11:32:54 AM	0.048	0.049	0.05	0.051	0.051	-0.052
11:33:32 AM	0.081	0.086	0.093	0.107	0.107	11:33:54 AM	0.046	0.048	0.049	0.05	0.05	-0.057
11:34:32 AM	0.078	0.083	0.09	0.102	0.103	11:34:54 AM	0.042	0.043	0.044	0.045	0.045	-0.058
11:35:32 AM	0.077	0.081	0.088	0.102	0.104	11:35:54 AM	0.041	0.042	0.043	0.044	0.044	-0.06
11:36:32 AM	0.075	0.08	0.087	0.1	0.101	11:36:54 AM	0.055	0.057	0.059	0.061	0.061	-0.04
11:37:32 AM	0.075	0.08	0.087	0.1	0.1	11:37:54 AM	0.047	0.049	0.05	0.051	0.051	-0.049
11:38:32 AM	0.075	0.08	0.087	0.1	0.101	11:38:54 AM	0.039	0.04	0.041	0.042	0.042	-0.059
11:39:32 AM	0.072	0.077	0.085	0.097	0.097	11:39:54 AM	0.038	0.039	0.04	0.041	0.041	-0.056
11:40:32 AM	0.07	0.075	0.082	0.096	0.097	11:40:54 AM	0.042	0.044	0.045	0.046	0.046	-0.051
11:41:32 AM	0.064	0.068	0.074	0.084	0.085	11:41:54 AM	0.05	0.052	0.054	0.056	0.056	-0.029
11:42:32 AM	0.065	0.069	0.076	0.087	0.088	11:42:54 AM	0.047	0.049	0.051	0.053	0.053	-0.035
11:43:32 AM	0.063	0.068	0.074	0.085	0.086	11:43:54 AM	0.039	0.041	0.042	0.043	0.043	-0.043
11:44:32 AM	0.061	0.065	0.07	0.08	0.082	11:44:54 AM	0.032	0.032	0.033	0.034	0.034	-0.048
11:45:32 AM	0.062	0.067	0.072	0.084	0.084	11:45:54 AM	0.031	0.032	0.032	0.033	0.033	-0.051
11:46:32 AM	0.063	0.067	0.073	0.085	0.086	11:46:54 AM	0.036	0.037	0.037	0.038	0.038	-0.048
11:47:32 AM	0.06	0.064	0.07	0.08	0.081	11:47:54 AM	0.035	0.036	0.036	0.037	0.037	-0.044
11:48:32 AM	0.076	0.082	0.09	0.108	0.11	11:48:54 AM	0.034	0.035	0.036	0.036	0.036	-0.074
11:49:32 AM	0.084	0.092	0.103	0.123	0.124	11:49:54 AM	0.035	0.036	0.037	0.037	0.037	-0.087
11:50:32 AM	0.123	0.133	0.145	0.168	0.169	11:50:54 AM	0.036	0.037	0.038	0.04	0.04	-0.129
11:51:32 AM	0.133	0.145	0.16	0.183	0.184	11:51:54 AM	0.097	0.1	0.102	0.104	0.105	-0.079
11:52:32 AM	0.126	0.139	0.153	0.173	0.175	11:52:54 AM	0.099	0.102	0.106	0.109	0.11	-0.065
11:53:32 AM	0.108	0.118	0.13	0.151	0.152	11:53:54 AM	0.051	0.053	0.055	0.056	0.057	-0.095

11:54:32 AM	0.096	0.105	0.116	0.134	0.136		11:54:54 AM	0.046	0.048	0.05	0.051	0.051	-0.085
11:55:32 AM	0.093	0.102	0.113	0.13	0.132		11:55:54 AM	0.034	0.035	0.035	0.036	0.036	-0.096
11:56:32 AM	0.091	0.099	0.108	0.125	0.126		11:56:54 AM	0.03	0.031	0.031	0.032	0.032	-0.094
11:57:32 AM	0.093	0.1	0.11	0.126	0.126		11:57:54 AM	0.028	0.029	0.03	0.03	0.03	-0.096
11:58:32 AM	0.088	0.095	0.104	0.119	0.12		11:58:54 AM	0.037	0.039	0.041	0.041	0.041	-0.079
11:59:32 AM	0.078	0.083	0.09	0.103	0.104		11:59:54 AM	0.03	0.031	0.032	0.032	0.032	-0.072
12:00:32 PM	0.074	0.079	0.086	0.099	0.1		12:00:54 PM	0.029	0.03	0.03	0.031	0.031	-0.069
12:01:32 PM	0.072	0.077	0.085	0.097	0.098		12:01:54 PM	0.027	0.028	0.029	0.029	0.03	-0.068
12:02:32 PM	0.071	0.076	0.084	0.097	0.099		12:02:54 PM	0.047	0.05	0.052	0.055	0.055	-0.044
12:03:32 PM	0.079	0.087	0.098	0.118	0.12		12:03:54 PM	0.033	0.035	0.036	0.037	0.037	-0.083
12:04:32 PM	0.096	0.107	0.123	0.154	0.155		12:04:54 PM	0.026	0.026	0.027	0.028	0.028	-0.127
12:05:32 PM	0.106	0.118	0.138	0.177	0.179		12:05:54 PM	0.034	0.036	0.038	0.039	0.039	-0.14
12:06:32 PM	0.187	0.213	0.26	0.351	0.353		12:06:54 PM	0.048	0.053	0.057	0.06	0.061	-0.292
12:07:32 PM	0.196	0.223	0.274	0.37	0.372		12:07:54 PM	0.026	0.026	0.027	0.028	0.028	-0.344
12:08:32 PM	0.199	0.226	0.274	0.371	0.376		12:08:54 PM	0.025	0.026	0.027	0.027	0.027	-0.349
12:09:32 PM	0.168	0.191	0.232	0.309	0.313		12:09:54 PM	0.026	0.027	0.027	0.028	0.028	-0.285
12:10:32 PM	0.151	0.17	0.206	0.269	0.271		12:10:54 PM	0.13	0.137	0.145	0.151	0.151	-0.12
12:11:32 PM	0.118	0.133	0.159	0.204	0.206		12:11:54 PM	0.027	0.029	0.03	0.031	0.031	-0.175
12:12:32 PM	0.113	0.127	0.151	0.194	0.194		12:12:54 PM	0.027	0.028	0.03	0.031	0.031	-0.163
12:13:32 PM	0.111	0.125	0.149	0.191	0.193		12:13:54 PM	0.031	0.032	0.035	0.037	0.037	-0.156
12:14:32 PM	0.099	0.11	0.131	0.167	0.168		12:14:54 PM	0.033	0.036	0.038	0.04	0.04	-0.128
12:15:32 PM	0.085	0.095	0.11	0.136	0.138		12:15:54 PM	0.036	0.039	0.042	0.045	0.045	-0.093
12:16:32 PM	0.084	0.094	0.109	0.134	0.135		12:16:54 PM	0.03	0.032	0.034	0.036	0.036	-0.099
12:17:32 PM	0.087	0.097	0.112	0.14	0.142		12:17:54 PM	0.029	0.031	0.033	0.034	0.034	-0.108
12:18:32 PM	0.083	0.093	0.108	0.135	0.136		12:18:54 PM	0.029	0.031	0.033	0.035	0.035	-0.101
12:19:32 PM	0.1	0.112	0.131	0.166	0.167		12:19:54 PM	0.028	0.029	0.031	0.033	0.033	-0.134
12:20:32 PM	0.093	0.103	0.121	0.152	0.154		12:20:54 PM	0.06	0.066	0.073	0.079	0.079	-0.075
12:21:32 PM	0.093	0.104	0.119	0.151	0.153		12:21:54 PM	0.044	0.049	0.054	0.057	0.057	-0.096
12:22:32 PM	0.091	0.101	0.116	0.147	0.15		12:22:54 PM	0.028	0.03	0.032	0.034	0.034	-0.116
12:23:32 PM	0.084	0.093	0.107	0.133	0.135		12:23:54 PM	0.027	0.029	0.031	0.034	0.034	-0.101
12:24:32 PM	0.079	0.088	0.101	0.127	0.129		12:24:54 PM	0.029	0.031	0.033	0.035	0.035	-0.094
12:25:32 PM	0.08	0.089	0.102	0.128	0.131		12:25:54 PM	0.028	0.031	0.033	0.034	0.035	-0.096
12:26:32 PM	0.077	0.085	0.097	0.122	0.124		12:26:54 PM	0.024	0.026	0.027	0.029	0.029	-0.095
12:27:32 PM	0.074	0.082	0.094	0.117	0.12		12:27:54 PM	0.024	0.025	0.027	0.028	0.028	-0.092
12:28:32 PM	0.066	0.073	0.083	0.103	0.105		12:28:54 PM	0.024	0.025	0.027	0.028	0.028	-0.077
12:29:32 PM	0.065	0.071	0.081	0.1	0.102		12:29:54 PM	0.024	0.026	0.028	0.029	0.029	-0.073
12:30:32 PM	0.064	0.071	0.08	0.098	0.099		12:30:54 PM	0.027	0.028	0.03	0.031	0.031	-0.068
12:31:32 PM	0.081	0.09	0.102	0.124	0.124		12:31:54 PM	0.031	0.033	0.035	0.037	0.037	-0.087
12:32:32 PM	0.081	0.088	0.1	0.12	0.124		12:32:54 PM	0.023	0.024	0.026	0.026	0.026	-0.098
12:33:32 PM	0.074	0.081	0.091	0.109	0.11		12:33:54 PM	0.033	0.035	0.037	0.039	0.039	-0.071
12:34:32 PM	0.084	0.093	0.105	0.128	0.13		12:34:54 PM	0.047	0.051	0.054	0.057	0.057	-0.073
12:35:32 PM	0.075	0.082	0.092	0.109	0.11		12:35:54 PM	0.041	0.044	0.047	0.049	0.049	-0.061
12:36:32 PM	0.075	0.082	0.092	0.113	0.114		12:36:54 PM	0.028	0.029	0.031	0.032	0.032	-0.082
12:37:32 PM	0.069	0.076	0.085	0.103	0.104		12:37:54 PM	0.026	0.028	0.029	0.03	0.03	-0.074
12:38:32 PM	0.072	0.079	0.089	0.107	0.108		12:38:54 PM	0.026	0.027	0.028	0.029	0.029	-0.079
12:39:32 PM	0.062	0.068	0.076	0.091	0.091		12:39:54 PM	0.023	0.024	0.025	0.026	0.026	-0.065
12:40:32 PM	0.059	0.064	0.071	0.086	0.087		12:40:54 PM	0.022	0.023	0.024	0.024	0.024	-0.063
12:41:32 PM	0.063	0.069	0.077	0.093	0.094		12:41:54 PM	0.022	0.023	0.024	0.025	0.025	-0.069
12:42:32 PM	0.058	0.063	0.071	0.083	0.086		12:42:54 PM	0.02	0.021	0.022	0.023	0.023	-0.063
12:43:32 PM	0.056	0.061	0.068	0.08	0.081		12:43:54 PM	0.02	0.021	0.021	0.022	0.022	-0.059
12:44:32 PM	0.05	0.054	0.06	0.072	0.072		12:44:54 PM	0.02	0.021	0.022	0.022	0.022	-0.05
12:45:32 PM	0.055	0.06	0.067	0.078	0.078		12:45:54 PM	0.023	0.024	0.025	0.026	0.026	-0.052
12:46:32 PM	0.055	0.06	0.066	0.08	0.08		12:46:54 PM	0.029	0.031	0.032	0.033	0.033	-0.047
12:47:32 PM	0.055	0.06	0.066	0.077	0.077		12:47:54 PM	0.025	0.026	0.028	0.029	0.029	-0.048
12:48:32 PM	0.05	0.055	0.06	0.071	0.071		12:48:54 PM	0.021	0.022	0.023	0.024	0.024	-0.047
12:49:32 PM	0.06	0.065	0.073	0.088	0.089		12:49:54 PM	0.021	0.022	0.023	0.024	0.024	-0.065
12:50:32 PM	0.06	0.065	0.073	0.087	0.089		12:50:54 PM	0.021	0.022	0.023	0.024	0.024	-0.065
12:51:32 PM	0.057	0.063	0.07	0.085	0.086		12:51:54 PM	0.024	0.025	0.026	0.027	0.027	-0.059
12:52:32 PM	0.057	0.062	0.07	0.084	0.085		12:52:54 PM	0.02	0.021	0.022	0.023	0.023	-0.062
12:53:32 PM	0.06	0.066	0.074	0.09	0.092		12:53:54 PM	0.019	0.02	0.021	0.022	0.022	-0.07
12:54:32 PM	0.055	0.06	0.067	0.081	0.083		12:54:54 PM	0.019	0.02	0.021	0.022	0.022	-0.061
12:55:32 PM	0.057	0.063	0.07	0.084	0.085		12:55:54 PM	0.023	0.024	0.026	0.027	0.027	-0.058
12:56:32 PM	0.053	0.059	0.065	0.08	0.081		12:56:54 PM	0.033	0.035	0.037	0.04	0.04	-0.041
12:57:32 PM	0.057	0.063	0.07	0.085	0.086		12:57:54 PM	0.021	0.022	0.023	0.024	0.024	-0.062

12:58:32 PM	0.049	0.054	0.06	0.073	0.073	12:58:54 PM	0.019	0.02	0.021	0.022	0.022	-0.051
12:59:32 PM	0.044	0.048	0.053	0.065	0.065	12:59:54 PM	0.019	0.02	0.021	0.022	0.022	-0.043
1:00:32 PM	0.044	0.049	0.054	0.066	0.066	1:00:54 PM	0.019	0.02	0.021	0.021	0.021	-0.045
1:01:32 PM	0.045	0.049	0.054	0.065	0.065	1:01:54 PM	0.018	0.019	0.02	0.021	0.021	-0.044
1:02:32 PM	0.051	0.056	0.062	0.076	0.076	1:02:54 PM	0.018	0.018	0.019	0.02	0.02	-0.056
1:03:32 PM	0.046	0.05	0.056	0.067	0.067	1:03:54 PM	0.017	0.018	0.019	0.02	0.02	-0.047
1:04:32 PM	0.044	0.048	0.053	0.066	0.066	1:04:54 PM	0.017	0.018	0.019	0.02	0.02	-0.046
1:05:32 PM	0.039	0.043	0.047	0.055	0.056	1:05:54 PM	0.017	0.018	0.019	0.019	0.019	-0.037
1:06:32 PM	0.036	0.038	0.042	0.049	0.05	1:06:54 PM	0.019	0.02	0.021	0.022	0.022	-0.028
1:07:32 PM	0.034	0.037	0.04	0.047	0.047	1:07:54 PM	0.017	0.017	0.018	0.019	0.019	-0.028
1:08:32 PM	0.032	0.034	0.038	0.046	0.046	1:08:54 PM	0.017	0.017	0.018	0.019	0.019	-0.027
1:09:32 PM	0.035	0.037	0.041	0.049	0.049	1:09:54 PM	0.017	0.017	0.018	0.018	0.019	-0.03
1:10:32 PM	0.036	0.039	0.042	0.05	0.05	1:10:54 PM	0.021	0.022	0.023	0.024	0.024	-0.026
1:11:32 PM	0.033	0.036	0.039	0.047	0.047	1:11:54 PM	0.025	0.027	0.028	0.029	0.029	-0.018
1:12:32 PM	0.035	0.038	0.042	0.049	0.05	1:12:54 PM	0.032	0.034	0.036	0.038	0.038	-0.012
1:13:32 PM	0.036	0.039	0.043	0.051	0.052	1:13:54 PM	0.029	0.031	0.033	0.035	0.035	-0.017
1:14:32 PM	0.037	0.04	0.045	0.053	0.054	1:14:54 PM	0.027	0.028	0.03	0.032	0.032	-0.022
1:15:32 PM	0.036	0.039	0.043	0.05	0.05	1:15:54 PM	0.024	0.025	0.027	0.029	0.029	-0.021
1:16:32 PM	0.032	0.034	0.038	0.046	0.047	1:16:54 PM	0.023	0.024	0.026	0.027	0.027	-0.02
1:17:32 PM	0.032	0.034	0.038	0.045	0.046	1:17:54 PM	0.022	0.023	0.025	0.026	0.026	-0.02
1:18:32 PM	0.032	0.035	0.039	0.046	0.047	1:18:54 PM	0.023	0.024	0.026	0.027	0.027	-0.02
1:19:32 PM	0.032	0.034	0.038	0.046	0.046	1:19:54 PM	0.022	0.023	0.025	0.026	0.027	-0.019
1:20:32 PM	0.03	0.032	0.036	0.043	0.043	1:20:54 PM	0.019	0.02	0.021	0.022	0.022	-0.021
1:21:32 PM	0.064	0.073	0.084	0.104	0.105	1:21:54 PM	0.023	0.024	0.026	0.026	0.026	-0.079
1:22:32 PM	0.055	0.063	0.073	0.093	0.095	1:22:54 PM	0.026	0.027	0.029	0.03	0.03	-0.065
1:23:32 PM	0.048	0.053	0.06	0.074	0.075	1:23:54 PM	0.035	0.037	0.04	0.042	0.042	-0.033
1:24:32 PM	0.046	0.05	0.056	0.065	0.066	1:24:54 PM	0.039	0.041	0.044	0.045	0.045	-0.021
1:25:32 PM	0.043	0.046	0.05	0.059	0.059	1:25:54 PM	0.034	0.036	0.038	0.04	0.04	-0.019
1:26:32 PM	0.038	0.04	0.043	0.05	0.05	1:26:54 PM	0.035	0.037	0.038	0.039	0.039	-0.011
1:27:32 PM	0.039	0.042	0.048	0.061	0.062	1:27:54 PM	0.033	0.034	0.036	0.037	0.037	-0.025
1:28:32 PM	0.037	0.039	0.044	0.056	0.057	1:28:54 PM	0.031	0.033	0.035	0.036	0.036	-0.021
1:29:32 PM	0.04	0.044	0.049	0.062	0.064	1:29:54 PM	0.029	0.03	0.031	0.033	0.033	-0.031
1:30:32 PM	0.038	0.041	0.046	0.059	0.06	1:30:54 PM	0.027	0.029	0.03	0.031	0.031	-0.029
1:31:32 PM	0.04	0.043	0.047	0.055	0.056	1:31:54 PM	0.023	0.024	0.025	0.026	0.026	-0.03
1:32:32 PM	0.04	0.042	0.046	0.054	0.055	1:32:54 PM	0.028	0.029	0.03	0.031	0.031	-0.024
1:33:32 PM	0.059	0.065	0.072	0.084	0.084	1:33:54 PM	0.025	0.026	0.027	0.028	0.028	-0.056
1:34:32 PM	0.143	0.164	0.186	0.218	0.22	1:34:54 PM	0.026	0.027	0.028	0.029	0.029	-0.191
1:35:32 PM	0.071	0.08	0.089	0.103	0.104	1:35:54 PM	0.033	0.035	0.037	0.038	0.038	-0.066
1:36:32 PM	0.072	0.081	0.091	0.108	0.108	1:36:54 PM	0.028	0.029	0.03	0.031	0.031	-0.077
1:37:32 PM	0.053	0.059	0.065	0.078	0.079	1:37:54 PM	0.028	0.029	0.03	0.031	0.031	-0.048
1:38:32 PM	0.05	0.054	0.059	0.069	0.07	1:38:54 PM	0.025	0.026	0.028	0.028	0.028	-0.042
1:39:32 PM	0.057	0.061	0.067	0.08	0.081	1:39:54 PM	0.028	0.029	0.03	0.031	0.031	-0.05
1:40:32 PM	0.045	0.048	0.053	0.062	0.062	1:40:54 PM	0.039	0.04	0.042	0.043	0.043	-0.019
1:41:32 PM	0.053	0.057	0.063	0.077	0.079	1:41:54 PM	0.04	0.041	0.043	0.045	0.045	-0.034
1:42:32 PM	0.052	0.056	0.062	0.074	0.074	1:42:54 PM	0.037	0.039	0.041	0.043	0.043	-0.031
1:43:32 PM	0.049	0.053	0.058	0.069	0.071	1:43:54 PM	0.034	0.035	0.037	0.038	0.038	-0.033
1:44:32 PM	0.045	0.049	0.055	0.064	0.065	1:44:54 PM	0.033	0.034	0.036	0.037	0.037	-0.028
1:45:32 PM	0.044	0.048	0.053	0.063	0.064	1:45:54 PM	0.033	0.035	0.036	0.038	0.038	-0.026
1:46:32 PM	0.043	0.047	0.052	0.061	0.061	1:46:54 PM	0.035	0.037	0.038	0.04	0.04	-0.021
1:47:32 PM	0.066	0.071	0.079	0.094	0.095	1:47:54 PM	0.034	0.035	0.037	0.038	0.038	-0.057
1:48:32 PM	0.084	0.088	0.095	0.109	0.111	1:48:54 PM	0.042	0.043	0.046	0.047	0.047	-0.064
1:49:32 PM	0.106	0.11	0.115	0.127	0.128	1:49:54 PM	0.054	0.057	0.06	0.063	0.063	-0.065
1:50:32 PM	0.063	0.066	0.071	0.079	0.08	1:50:54 PM	0.054	0.057	0.06	0.062	0.062	-0.018
1:51:32 PM	0.068	0.071	0.076	0.084	0.084	1:51:54 PM	0.061	0.064	0.068	0.072	0.072	-0.012
1:52:32 PM	0.076	0.08	0.084	0.093	0.093	1:52:54 PM	0.06	0.063	0.066	0.069	0.069	-0.024
1:53:32 PM	0.059	0.062	0.067	0.077	0.077	1:53:54 PM	0.053	0.056	0.059	0.062	0.062	-0.015
1:54:32 PM	0.068	0.072	0.077	0.088	0.09	1:54:54 PM	0.054	0.056	0.059	0.061	0.061	-0.029
1:55:32 PM	0.062	0.065	0.07	0.079	0.08	1:55:54 PM	0.05	0.052	0.055	0.056	0.056	-0.024
1:56:32 PM	0.06	0.063	0.067	0.076	0.077	1:56:54 PM	0.051	0.053	0.056	0.058	0.058	-0.019
1:57:32 PM	0.058	0.061	0.065	0.074	0.075	1:57:54 PM	0.055	0.057	0.06	0.062	0.062	-0.013
1:58:32 PM	0.057	0.06	0.065	0.073	0.073	1:58:54 PM	0.052	0.054	0.056	0.057	0.057	-0.016
1:59:32 PM	0.064	0.067	0.071	0.081	0.082	1:59:54 PM	0.055	0.057	0.06	0.062	0.062	-0.02
2:00:32 PM	0.064	0.067	0.071	0.08	0.08	2:00:54 PM	0.066	0.069	0.072	0.076	0.076	-0.004
2:01:32 PM	0.072	0.076	0.08	0.088	0.089	2:01:54 PM	0.075	0.079	0.084	0.088	0.088	-0.001

2:02:32 PM	0.077	0.08	0.085	0.095	0.096		2:02:54 PM	0.085	0.09	0.096	0.101	0.102	0.006
2:03:32 PM	0.097	0.1	0.106	0.119	0.12		2:03:54 PM	0.094	0.099	0.106	0.112	0.112	-0.008
2:04:32 PM	0.065	0.068	0.072	0.08	0.08		2:04:54 PM	0.086	0.091	0.098	0.103	0.103	0.023
2:05:32 PM	0.057	0.059	0.063	0.072	0.073		2:05:54 PM	0.079	0.084	0.089	0.096	0.096	0.023
2:06:32 PM	0.049	0.051	0.055	0.062	0.062		2:06:54 PM	0.073	0.077	0.082	0.088	0.088	0.026
2:07:32 PM	0.046	0.048	0.052	0.059	0.059		2:07:54 PM	0.082	0.087	0.093	0.098	0.099	0.04
2:08:32 PM	0.056	0.059	0.064	0.073	0.074		2:08:54 PM	0.102	0.109	0.118	0.127	0.127	0.053
2:09:32 PM	0.056	0.059	0.064	0.075	0.075		2:09:54 PM	0.09	0.095	0.102	0.109	0.109	0.034
2:10:32 PM	0.047	0.05	0.054	0.064	0.065		2:10:54 PM	0.089	0.095	0.101	0.106	0.106	0.041
2:11:32 PM	0.086	0.092	0.1	0.118	0.12		2:11:54 PM	0.091	0.097	0.104	0.11	0.11	-0.01
2:12:32 PM	0.05	0.052	0.057	0.067	0.068		2:12:54 PM	0.095	0.102	0.109	0.116	0.116	0.048
2:13:32 PM	0.049	0.051	0.055	0.062	0.062		2:13:54 PM	0.061	0.064	0.068	0.073	0.073	0.011
2:14:32 PM	0.06	0.064	0.069	0.079	0.082		2:14:54 PM	0.073	0.077	0.083	0.087	0.087	0.005
2:15:32 PM	0.102	0.107	0.115	0.13	0.131		2:15:54 PM	0.086	0.091	0.098	0.103	0.103	-0.028
2:16:32 PM	0.179	0.187	0.197	0.217	0.218		2:16:54 PM	0.099	0.104	0.111	0.117	0.117	-0.101
2:17:32 PM	0.114	0.119	0.126	0.138	0.14		2:17:54 PM	0.109	0.115	0.122	0.128	0.129	-0.011
2:18:32 PM	0.128	0.134	0.142	0.159	0.159		2:18:54 PM	0.104	0.11	0.117	0.122	0.123	-0.036
2:19:32 PM	0.101	0.105	0.111	0.123	0.124		2:19:54 PM	0.102	0.107	0.114	0.119	0.12	-0.004
2:20:32 PM	0.089	0.092	0.097	0.107	0.107		2:20:54 PM	0.109	0.114	0.119	0.124	0.124	0.017
2:21:32 PM	0.082	0.085	0.09	0.099	0.099		2:21:54 PM	0.102	0.107	0.113	0.118	0.118	0.019
2:22:32 PM	0.087	0.091	0.097	0.107	0.108		2:22:54 PM	0.103	0.109	0.116	0.122	0.122	0.014
2:23:32 PM	0.09	0.094	0.101	0.115	0.115		2:23:54 PM	0.093	0.098	0.104	0.108	0.108	-0.007
2:24:32 PM	0.096	0.102	0.109	0.123	0.124		2:24:54 PM	0.096	0.101	0.107	0.112	0.112	-0.012
2:25:32 PM	0.094	0.099	0.106	0.119	0.119		2:25:54 PM	0.099	0.104	0.11	0.115	0.115	-0.004
2:26:32 PM	0.089	0.093	0.099	0.113	0.113		2:26:54 PM	0.088	0.092	0.097	0.1	0.101	-0.012
2:27:32 PM	0.084	0.088	0.094	0.107	0.108		2:27:54 PM	0.082	0.086	0.09	0.094	0.094	-0.014
2:28:32 PM	0.083	0.087	0.093	0.107	0.108		2:28:54 PM	0.079	0.082	0.086	0.089	0.089	-0.019
2:29:32 PM	0.079	0.082	0.088	0.099	0.099		2:29:54 PM	0.081	0.085	0.09	0.093	0.093	-0.006
2:30:32 PM	0.077	0.081	0.086	0.098	0.099		2:30:54 PM	0.09	0.095	0.101	0.106	0.106	0.007
2:31:32 PM	0.075	0.079	0.084	0.094	0.095		2:31:54 PM	0.087	0.091	0.097	0.102	0.102	0.007
2:32:32 PM	0.072	0.076	0.081	0.091	0.091		2:32:54 PM	0.083	0.087	0.092	0.096	0.096	0.005
2:33:32 PM	0.072	0.076	0.081	0.095	0.097		2:33:54 PM	0.072	0.075	0.079	0.082	0.082	-0.015
2:34:32 PM	0.074	0.078	0.082	0.094	0.094		2:34:54 PM	0.073	0.077	0.081	0.085	0.085	-0.009
2:35:32 PM	0.087	0.093	0.101	0.116	0.117		2:35:54 PM	0.077	0.081	0.085	0.089	0.089	-0.028
2:36:32 PM	0.093	0.099	0.109	0.128	0.129		2:36:54 PM	0.078	0.082	0.086	0.089	0.089	-0.04
2:37:32 PM	0.086	0.092	0.102	0.123	0.124		2:37:54 PM	0.068	0.071	0.075	0.078	0.079	-0.045
2:38:32 PM	0.086	0.093	0.103	0.124	0.124		2:38:54 PM	0.062	0.066	0.07	0.073	0.073	-0.051
2:39:32 PM	0.087	0.093	0.102	0.127	0.131		2:39:54 PM	0.068	0.072	0.076	0.079	0.079	-0.052
2:40:32 PM	0.082	0.088	0.096	0.114	0.117		2:40:54 PM	0.075	0.079	0.084	0.087	0.088	-0.029
2:41:32 PM	0.078	0.082	0.09	0.105	0.105		2:41:54 PM	0.071	0.075	0.079	0.082	0.082	-0.023
2:42:32 PM	0.079	0.084	0.092	0.108	0.109		2:42:54 PM	0.073	0.076	0.081	0.084	0.084	-0.025
2:43:32 PM	0.078	0.083	0.09	0.102	0.103		2:43:54 PM	0.077	0.081	0.085	0.088	0.088	-0.015
2:44:32 PM	0.081	0.087	0.095	0.112	0.112		2:44:54 PM	0.072	0.076	0.079	0.082	0.082	-0.03
2:45:32 PM	0.078	0.083	0.092	0.107	0.108		2:45:54 PM	0.073	0.076	0.081	0.084	0.084	-0.024
2:46:32 PM	0.066	0.071	0.077	0.091	0.092		2:46:54 PM	0.075	0.079	0.083	0.086	0.086	-0.006
2:47:32 PM	0.059	0.063	0.069	0.081	0.082		2:47:54 PM	0.07	0.073	0.077	0.079	0.08	-0.002
2:48:32 PM	0.054	0.058	0.063	0.074	0.075		2:48:54 PM	0.059	0.061	0.064	0.066	0.066	-0.009
2:49:32 PM	0.052	0.055	0.06	0.072	0.073		2:49:54 PM	0.057	0.06	0.063	0.066	0.066	-0.007
2:50:32 PM	0.049	0.053	0.057	0.067	0.068		2:50:54 PM	0.054	0.056	0.058	0.06	0.06	-0.008
2:51:32 PM	0.048	0.051	0.056	0.067	0.069		2:51:54 PM	0.05	0.053	0.055	0.057	0.058	-0.011
2:52:32 PM	0.042	0.044	0.048	0.056	0.058		2:52:54 PM	0.043	0.045	0.047	0.049	0.049	-0.009
2:53:32 PM	0.036	0.038	0.042	0.048	0.049		2:53:54 PM	0.063	0.066	0.069	0.072	0.073	0.024
2:54:32 PM	0.037	0.039	0.042	0.049	0.05		2:54:54 PM	0.067	0.07	0.073	0.076	0.076	0.026
2:55:32 PM	0.035	0.037	0.041	0.048	0.049		2:55:54 PM	0.064	0.067	0.07	0.073	0.073	0.024
2:56:32 PM	0.032	0.034	0.038	0.045	0.045		2:56:54 PM	0.056	0.058	0.061	0.063	0.063	0.018
2:57:32 PM	0.052	0.054	0.057	0.065	0.065		2:57:54 PM	0.048	0.051	0.053	0.055	0.055	-0.01
2:58:32 PM	0.048	0.05	0.053	0.061	0.061		2:58:54 PM	0.051	0.053	0.056	0.058	0.058	-0.003
2:59:32 PM	0.055	0.057	0.06	0.067	0.067		2:59:54 PM	0.052	0.054	0.057	0.059	0.059	-0.008
3:00:32 PM	0.057	0.059	0.062	0.068	0.068		3:00:54 PM	0.053	0.055	0.058	0.059	0.06	-0.008
3:01:32 PM	0.048	0.051	0.054	0.06	0.061		3:01:54 PM	0.056	0.058	0.06	0.062	0.062	0.001
3:02:32 PM	0.038	0.04	0.044	0.053	0.054		3:02:54 PM	0.056	0.058	0.06	0.062	0.062	0.008
3:03:32 PM	0.043	0.046	0.051	0.061	0.062		3:03:54 PM	0.054	0.056	0.058	0.06	0.06	-0.002
3:04:32 PM	0.038	0.041	0.045	0.055	0.056		3:04:54 PM	0.058	0.06	0.063	0.065	0.065	0.009
3:05:32 PM	0.035	0.038	0.041	0.049	0.05		3:05:54 PM	0.036	0.038	0.039	0.041	0.042	-0.008

3:06:32 PM	0.037	0.04	0.045	0.053	0.053		3:06:54 PM	0.034	0.035	0.037	0.038	0.038	-0.015
3:07:32 PM	0.031	0.033	0.036	0.042	0.042		3:07:54 PM	0.037	0.039	0.04	0.042	0.042	0
3:08:32 PM	0.029	0.031	0.034	0.038	0.039		3:08:54 PM	0.042	0.043	0.045	0.047	0.047	0.008
3:09:32 PM	0.03	0.031	0.034	0.038	0.038		3:09:54 PM	0.037	0.04	0.042	0.044	0.044	0.006
3:10:32 PM	0.031	0.033	0.037	0.042	0.042		3:10:54 PM	0.033	0.035	0.036	0.038	0.038	-0.004
3:11:32 PM	0.031	0.032	0.034	0.039	0.04		3:11:54 PM	0.037	0.039	0.04	0.041	0.041	0.001
3:12:32 PM	0.032	0.034	0.036	0.04	0.041		3:12:54 PM	0.045	0.047	0.049	0.05	0.05	0.009
3:13:32 PM	0.051	0.052	0.055	0.059	0.059		3:13:54 PM	0.042	0.044	0.045	0.046	0.046	-0.013
3:14:32 PM	0.049	0.05	0.053	0.057	0.057		3:14:54 PM	0.044	0.045	0.047	0.049	0.049	-0.008
3:15:32 PM	0.068	0.07	0.073	0.078	0.078		3:15:54 PM	0.045	0.047	0.049	0.05	0.05	-0.028
3:16:32 PM	0.054	0.056	0.059	0.065	0.065		3:16:54 PM	0.045	0.047	0.049	0.05	0.05	-0.015
3:17:32 PM	0.057	0.059	0.062	0.069	0.069		3:17:54 PM	0.044	0.045	0.047	0.048	0.048	-0.021
3:18:32 PM	0.055	0.058	0.061	0.07	0.07		3:18:54 PM	0.042	0.044	0.045	0.047	0.047	-0.023
3:19:32 PM	0.051	0.053	0.056	0.063	0.063		3:19:54 PM	0.044	0.045	0.046	0.047	0.047	-0.016
3:20:32 PM	0.051	0.053	0.056	0.064	0.065		3:20:54 PM	0.053	0.055	0.056	0.057	0.057	-0.008
3:21:32 PM	0.053	0.055	0.058	0.066	0.066		3:21:54 PM	0.055	0.057	0.058	0.059	0.059	-0.007
3:22:32 PM	0.058	0.06	0.063	0.07	0.07		3:22:54 PM	0.044	0.046	0.048	0.049	0.049	-0.021
3:23:32 PM	0.067	0.069	0.072	0.076	0.076		3:23:54 PM	0.05	0.052	0.055	0.058	0.058	-0.018
3:24:32 PM	0.067	0.069	0.072	0.078	0.079		3:24:54 PM	0.061	0.065	0.07	0.074	0.075	-0.004
3:25:32 PM	0.071	0.076	0.081	0.092	0.094		3:25:54 PM	0.061	0.064	0.069	0.073	0.074	-0.02
3:26:32 PM	0.066	0.07	0.076	0.088	0.089		3:26:54 PM	0.06	0.064	0.069	0.072	0.072	-0.017
3:27:32 PM	0.058	0.061	0.066	0.076	0.078		3:27:54 PM	0.064	0.067	0.072	0.077	0.077	-0.001
3:28:32 PM	0.057	0.06	0.065	0.074	0.074		3:28:54 PM	0.06	0.063	0.067	0.072	0.072	-0.002
3:29:32 PM	0.062	0.067	0.073	0.084	0.085		3:29:54 PM	0.066	0.07	0.075	0.079	0.079	-0.006
3:30:32 PM	0.061	0.064	0.068	0.075	0.075		3:30:54 PM	0.063	0.067	0.072	0.076	0.076	0.001
3:31:32 PM	0.057	0.06	0.063	0.07	0.071		3:31:54 PM	0.055	0.058	0.062	0.066	0.066	-0.005
3:32:32 PM	0.091	0.092	0.095	0.101	0.101		3:32:54 PM	0.068	0.072	0.077	0.083	0.083	-0.018
3:33:32 PM	0.089	0.09	0.093	0.097	0.097		3:33:54 PM	0.063	0.067	0.071	0.075	0.075	-0.022
3:34:32 PM	0.057	0.059	0.062	0.067	0.068		3:34:54 PM	0.069	0.073	0.079	0.084	0.084	0.016
3:35:32 PM	0.049	0.051	0.054	0.06	0.06		3:35:54 PM	0.07	0.074	0.08	0.085	0.085	0.025
3:36:32 PM	0.047	0.049	0.051	0.057	0.057		3:36:54 PM	0.063	0.066	0.07	0.074	0.074	0.017
3:37:32 PM	0.059	0.06	0.062	0.066	0.066		3:37:54 PM	0.066	0.07	0.073	0.076	0.076	0.01
3:38:32 PM	0.06	0.063	0.068	0.076	0.077		3:38:54 PM	0.059	0.063	0.067	0.071	0.071	-0.006
3:39:32 PM	0.059	0.063	0.069	0.079	0.08		3:39:54 PM	0.057	0.06	0.063	0.067	0.067	-0.013
3:40:32 PM	0.057	0.06	0.064	0.073	0.074		3:40:54 PM	0.053	0.056	0.058	0.061	0.061	-0.013
3:41:32 PM	0.057	0.059	0.061	0.068	0.068		3:41:54 PM	0.053	0.055	0.058	0.061	0.061	-0.007
3:42:32 PM	0.114	0.117	0.12	0.127	0.128		3:42:54 PM	0.053	0.056	0.059	0.062	0.062	-0.066
3:43:32 PM	0.29	0.293	0.298	0.306	0.307		3:43:54 PM	0.048	0.05	0.053	0.055	0.055	-0.252
3:44:32 PM	0.183	0.186	0.191	0.202	0.203		3:44:54 PM	0.046	0.048	0.05	0.052	0.052	-0.151
3:45:32 PM	0.08	0.082	0.086	0.096	0.097		3:45:54 PM	0.058	0.06	0.062	0.064	0.064	-0.033
3:46:32 PM	0.073	0.076	0.079	0.086	0.086		3:46:54 PM	0.05	0.052	0.054	0.055	0.055	-0.031
3:47:32 PM	0.049	0.051	0.055	0.062	0.062		3:47:54 PM	0.05	0.052	0.054	0.056	0.056	-0.006
3:48:32 PM	0.052	0.055	0.059	0.068	0.068		3:48:54 PM	0.046	0.048	0.05	0.051	0.052	-0.016
3:49:32 PM	0.056	0.059	0.064	0.074	0.074		3:49:54 PM	0.045	0.046	0.048	0.05	0.05	-0.024
3:50:32 PM	0.052	0.055	0.059	0.067	0.068		3:50:54 PM	0.045	0.046	0.048	0.049	0.049	-0.019
3:51:32 PM	0.051	0.054	0.058	0.065	0.066		3:51:54 PM	0.047	0.048	0.051	0.052	0.052	-0.014
3:52:32 PM	0.048	0.051	0.055	0.063	0.063		3:52:54 PM	0.047	0.049	0.051	0.053	0.053	-0.01
3:53:32 PM	0.046	0.049	0.053	0.061	0.061		3:53:54 PM	0.047	0.049	0.051	0.053	0.053	-0.008
3:54:32 PM	0.048	0.052	0.056	0.066	0.066		3:54:54 PM	0.043	0.045	0.047	0.049	0.049	-0.017
3:55:32 PM	0.045	0.048	0.053	0.061	0.061		3:55:54 PM	0.044	0.046	0.048	0.05	0.05	-0.011
3:56:32 PM	0.043	0.046	0.05	0.059	0.06		3:56:54 PM	0.036	0.037	0.039	0.041	0.041	-0.019
3:57:32 PM	0.037	0.04	0.044	0.051	0.051		3:57:54 PM	0.038	0.04	0.042	0.044	0.044	-0.007
3:58:32 PM	0.034	0.036	0.039	0.045	0.045		3:58:54 PM	0.039	0.041	0.043	0.044	0.044	-0.001
3:59:32 PM	0.035	0.037	0.04	0.047	0.047		3:59:54 PM	0.039	0.041	0.043	0.045	0.045	-0.002
4:00:32 PM	0.035	0.037	0.041	0.049	0.05		4:00:54 PM	0.038	0.039	0.041	0.043	0.043	-0.007
4:01:32 PM	0.034	0.037	0.041	0.048	0.049		4:01:54 PM	0.037	0.039	0.041	0.042	0.042	-0.007
4:02:32 PM	0.03	0.032	0.035	0.04	0.04		4:02:54 PM	0.033	0.034	0.036	0.038	0.038	-0.002
4:03:32 PM	0.028	0.03	0.033	0.039	0.04		4:03:54 PM	0.027	0.029	0.03	0.031	0.031	-0.009
4:04:32 PM	0.026	0.028	0.031	0.036	0.036		4:04:54 PM	0.021	0.023	0.024	0.025	0.025	-0.011
4:05:32 PM	0.031	0.032	0.035	0.04	0.04		4:05:54 PM	0.024	0.025	0.027	0.028	0.028	-0.012
4:06:32 PM	0.022	0.023	0.026	0.031	0.032		4:06:54 PM	0.028	0.029	0.03	0.032	0.032	0
4:07:32 PM	0.022	0.024	0.026	0.031	0.032		4:07:54 PM	0.036	0.037	0.038	0.039	0.039	0.007
4:08:32 PM	0.021	0.023	0.025	0.03	0.031		4:08:54 PM	0.04	0.041	0.042	0.043	0.044	0.013
4:09:32 PM	0.023	0.024	0.026	0.032	0.034		4:09:54 PM	0.037	0.039	0.04	0.041	0.041	0.007

4:10:32 PM	0.023	0.024	0.026	0.032	0.032	
4:11:32 PM	0.019	0.02	0.022	0.028	0.028	
4:12:32 PM	0.018	0.019	0.021	0.024	0.025	
4:13:32 PM	0.019	0.02	0.022	0.026	0.027	
4:14:32 PM	0.019	0.02	0.022	0.026	0.026	
4:15:32 PM	0.02	0.021	0.023	0.025	0.025	
4:16:32 PM	0.024	0.025	0.026	0.03	0.03	
4:17:32 PM	0.028	0.03	0.031	0.035	0.035	
4:18:32 PM	0.03	0.031	0.032	0.036	0.037	
4:19:32 PM	0.031	0.032	0.034	0.038	0.038	
4:20:32 PM	0.037	0.039	0.041	0.045	0.045	
4:21:32 PM	0.041	0.043	0.045	0.048	0.049	
4:22:32 PM	0.043	0.044	0.046	0.05	0.05	
4:23:32 PM	0.044	0.045	0.048	0.053	0.054	
4:24:32 PM	0.061	0.064	0.069	0.078	0.079	
4:27:15	0.051	0.054	0.056	0.057	0.058	Flow Error
4:28:15	0.034	0.037	0.039	0.041	0.041	Flow Error
4:29:15	0.035	0.038	0.04	0.041	0.041	Flow Error
4:30:15	0.046	0.049	0.051	0.052	0.052	Flow Error
4:31:15	0.042	0.045	0.047	0.049	0.049	Flow Error
4:32:15	0.075	0.078	0.08	0.081	0.081	Flow Error
4:33:15	0.037	0.04	0.042	0.043	0.043	Flow Error
4:34:15	0.042	0.045	0.046	0.048	0.048	Flow Error
4:35:15	0.045	0.048	0.05	0.052	0.052	Flow Error
4:36:15	0.042	0.045	0.047	0.049	0.049	
4:37:15	0	0	0	0	0	
4:38:15	0.033	0.033	0.033	0.033	0.033	Flow Error
4:39:15	0.019	0.019	0.019	0.019	0.019	Flow Error
4:40:15	0.023	0.023	0.023	0.023	0.023	Flow Error
4:41:15	0.017	0.017	0.017	0.017	0.017	Flow Error
4:42:15	0.011	0.011	0.011	0.011	0.011	Flow Error
4:43:15	0.013	0.013	0.013	0.013	0.013	

4:10:54 PM	0.036	0.038	0.04	0.041	0.041		0.009
4:11:54 PM	0.037	0.039	0.041	0.043	0.043		0.015
4:12:54 PM	0.038	0.04	0.042	0.044	0.044		0.019
4:13:54 PM	0.034	0.036	0.037	0.039	0.039		0.012
4:14:54 PM	0.033	0.035	0.036	0.037	0.037		0.011
4:15:54 PM	0.031	0.033	0.034	0.035	0.035		0.01
4:16:54 PM	0.004	0.004	0.005	0.005	0.005	Flow Error	-0.025
4:17:54 PM	0.002	0.002	0.002	0.002	0.002	Flow Error	-0.033
4:18:54 PM	0	0	0	0	0		-0.037
4:19:54 PM	0.017	0.017	0.017	0.017	0.017	Flow Error	-0.021
4:20:54 PM	0.025	0.025	0.025	0.025	0.025	Flow Error	-0.02
4:21:54 PM	0.012	0.012	0.012	0.012	0.012	Flow Error	-0.037
4:22:54 PM	0.01	0.01	0.01	0.01	0.01	Flow Error	-0.04
4:23:54 PM	0.011	0.011	0.011	0.011	0.011	Flow Error	-0.043
4:24:54 PM	0.013	0.013	0.013	0.013	0.013	Flow Error	-0.066
4:25:54 PM	0.035	0.036	0.037	0.043	0.048		0.048
4:26:54 PM	0.039	0.041	0.043	0.043	0.044		0.044
4:27:54 PM	0.028	0.029	0.03	0.031	0.031		-0.027
4:28:54 PM	0.024	0.025	0.026	0.027	0.027		-0.014
4:29:54 PM	0.018	0.019	0.019	0.019	0.019		-0.022
4:30:54 PM	0.02	0.021	0.022	0.022	0.022		-0.03
4:31:54 PM	0.019	0.02	0.02	0.021	0.021		-0.028
4:32:54 PM	0.021	0.021	0.022	0.022	0.022		-0.059
4:33:54 PM	0.029	0.03	0.031	0.031	0.031		-0.012
4:34:54 PM	0.025	0.026	0.027	0.027	0.027		-0.021
4:35:54 PM	0.021	0.022	0.022	0.022	0.022		-0.03
4:36:54 PM	0.025	0.026	0.027	0.027	0.027		-0.022
4:37:54 PM	0.031	0.032	0.033	0.033	0.033		0.033
4:38:54 PM	0.035	0.035	0.036	0.036	0.036		0.003
4:39:54 PM	0.093	0.094	0.094	0.094	0.094		0.075
4:40:54 PM	0.055	0.056	0.056	0.056	0.056		0.033
4:41:54 PM	0.05	0.05	0.051	0.051	0.051		0.034
4:42:54 PM	0.049	0.049	0.05	0.05	0.05		0.039
4:43:54 PM	0.034	0.035	0.035	0.035	0.035		0.022
4:44:54 PM	0.023	0.024	0.024	0.024	0.024		0.024
4:45:54 PM	0.037	0.037	0.037	0.037	0.037		0.037
4:46:54 PM	0.045	0.045	0.046	0.046	0.046		0.046
4:47:54 PM	0.045	0.045	0.046	0.046	0.046		0.046
4:48:54 PM	0.04	0.041	0.041	0.041	0.041		0.041
4:49:54 PM	0.041	0.041	0.041	0.042	0.042		0.042
4:50:54 PM	0.044	0.044	0.044	0.044	0.044		0.044
4:51:54 PM	0.045	0.046	0.046	0.046	0.046		0.046
4:52:54 PM	0.041	0.041	0.042	0.042	0.042		0.042
4:53:54 PM	0.028	0.029	0.03	0.03	0.03		0.03
4:54:54 PM	0.022	0.023	0.024	0.024	0.024		0.024
4:55:54 PM	0.025	0.025	0.026	0.026	0.026		0.026
4:56:54 PM	0.023	0.024	0.024	0.024	0.024		0.024
4:57:54 PM	0.03	0.031	0.031	0.031	0.031		0.031
4:58:54 PM	0.027	0.027	0.028	0.028	0.028		0.028
4:59:54 PM	0.024	0.025	0.025	0.025	0.025		0.025

UPWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533112903
Firmware Version	3.3
Calibration Date	2/24/2015
Test Name	MANUAL_005
Test Start Time	10:17:19 AM
Test Start Date	5/1/2015
Test Length [D:H:M	0:06:07
Test Interval [M:S]	1:00
PM1 Average [mg/r	0.03
PM1 Minimum [mg	0.012
PM1 Maximum [mg	0.16
PM1 TWA [mg/m3]	0.023
PM2.5 Average [mg	0.033
PM2.5 Minimum [r	0.013
PM2.5 Maximum [n	0.181
PM2.5 TWA [mg/m:	0.025
PM4 Average [mg/r	0.036
PM4 Minimum [mg	0.014
PM4 Maximum [mg	0.219
PM4 TWA [mg/m3]	0.027
PM10 Average [mg/	0.042
PM10 Minimum [m	0.015
PM10 Maximum [m	0.314
PM10 TWA [mg/m3	0.032
TOTAL Average [mg	0.043
TOTAL Minimum [r	0.015
TOTAL Maximum [n	0.321
TOTAL TWA [mg/m	0.033
Photometric User C	1
Size Correction Use	1
Flow User Cal	0
Errors	
Number of Samples	367

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors
10:17:19 AM	0.062	0.068	0.077	0.098	0.101		
10:18:19 AM	0.053	0.059	0.066	0.081	0.083		
10:19:19 AM	0.047	0.052	0.058	0.072	0.074		
10:20:19 AM	0.044	0.048	0.055	0.067	0.068		
10:21:19 AM	0.05	0.055	0.061	0.072	0.073		
10:22:19 AM	0.081	0.085	0.09	0.101	0.102		
10:23:19 AM	0.136	0.14	0.146	0.156	0.157		
10:24:19 AM	0.065	0.068	0.073	0.082	0.082		
10:25:19 AM	0.074	0.077	0.082	0.09	0.092		
10:26:19 AM	0.065	0.068	0.073	0.079	0.08		
10:27:19 AM	0.045	0.048	0.052	0.058	0.059		
10:28:19 AM	0.054	0.058	0.062	0.069	0.07		
10:29:19 AM	0.054	0.057	0.062	0.07	0.071		
10:30:19 AM	0.063	0.066	0.07	0.077	0.078		
10:31:19 AM	0.061	0.064	0.068	0.075	0.075		
10:32:19 AM	0.062	0.065	0.069	0.075	0.076		
10:33:19 AM	0.048	0.051	0.054	0.06	0.06		
10:34:19 AM	0.053	0.056	0.06	0.066	0.066		
10:35:19 AM	0.056	0.059	0.062	0.068	0.068		
10:36:19 AM	0.054	0.056	0.06	0.065	0.066		
10:37:19 AM	0.049	0.052	0.056	0.061	0.061		
10:38:19 AM	0.03	0.032	0.035	0.038	0.039		
10:39:19 AM	0.038	0.04	0.042	0.047	0.048		
10:40:19 AM	0.037	0.04	0.042	0.047	0.047		
10:41:19 AM	0.036	0.039	0.041	0.046	0.046		
10:42:19 AM	0.033	0.035	0.038	0.043	0.043		
10:43:19 AM	0.034	0.036	0.039	0.044	0.044		
10:44:19 AM	0.031	0.034	0.036	0.042	0.042		
10:45:19 AM	0.03	0.032	0.035	0.04	0.04		
10:46:19 AM	0.03	0.032	0.034	0.039	0.04		
10:47:19 AM	0.029	0.031	0.033	0.037	0.037		
10:48:19 AM	0.029	0.031	0.034	0.038	0.038		
10:49:19 AM	0.029	0.031	0.034	0.039	0.039		
10:50:19 AM	0.024	0.025	0.028	0.031	0.032		
10:51:19 AM	0.022	0.024	0.026	0.03	0.03		
10:52:19 AM	0.024	0.025	0.028	0.033	0.034		
10:53:19 AM	0.023	0.025	0.027	0.03	0.032		
10:54:19 AM	0.021	0.022	0.024	0.028	0.028		
10:55:19 AM	0.019	0.02	0.022	0.025	0.025		
10:56:19 AM	0.018	0.019	0.021	0.024	0.024		
10:57:19 AM	0.018	0.02	0.021	0.025	0.026		
10:58:19 AM	0.017	0.019	0.021	0.024	0.025		
10:59:19 AM	0.015	0.017	0.018	0.021	0.021		

DOWNWIND

Instrument Name	DustTrak DRX
Model Number	8533
Serial Number	8533132901
Firmware Version	3
Calibration Date	7/9/2014
Test Name	MANUAL_003
Test Start Time	10:17:56 AM
Test Start Date	5/1/2015
Test Length [D:H:M	0:06:05
Test Interval [M:S]	1:00
PM1 Average [mg/r	0.025
PM1 Minimum [mg	0.011
PM1 Maximum [mg	0.067
PM1 TWA [mg/m3]	0.019
PM2.5 Average [mg	0.026
PM2.5 Minimum [r	0.012
PM2.5 Maximum [n	0.071
PM2.5 TWA [mg/m	0.02
PM4 Average [mg/r	0.028
PM4 Minimum [mg	0.013
PM4 Maximum [mg	0.078
PM4 TWA [mg/m3]	0.021
PM10 Average [mg/	0.031
PM10 Minimum [m	0.014
PM10 Maximum [m	0.089
PM10 TWA [mg/m3	0.023
TOTAL Average [mg	0.031
TOTAL Minimum [r	0.014
TOTAL Maximum [n	0.091
TOTAL TWA [mg/m	0.024
Photometric User C	1
Size Correction Use	1
Flow User Cal	0
Errors	
Number of Samples	365

Elapsed Time [s]	PM1 [mg/m3]	PM2.5 [mg/m3]	PM4 [mg/m3]	PM10 [mg/m3]	TOTAL [mg/m3]	Alarms	Errors	Difference
10:17:56 AM	0.013	0.014	0.015	0.017	0.018			-0.083
10:18:56 AM	0.016	0.017	0.018	0.02	0.02			-0.063
10:19:56 AM	0.014	0.015	0.016	0.018	0.018			-0.056
10:20:56 AM	0.014	0.015	0.016	0.018	0.018			-0.05
10:21:56 AM	0.014	0.015	0.016	0.018	0.018			-0.055
10:22:56 AM	0.012	0.013	0.014	0.015	0.016			-0.086
10:23:56 AM	0.011	0.012	0.013	0.014	0.014			-0.143
10:24:56 AM	0.013	0.014	0.014	0.015	0.015			-0.067
10:25:56 AM	0.014	0.015	0.016	0.017	0.018			-0.074
10:26:56 AM	0.016	0.016	0.017	0.019	0.019			-0.061
10:27:56 AM	0.016	0.017	0.018	0.02	0.02			-0.039
10:28:56 AM	0.015	0.016	0.017	0.019	0.019			-0.051
10:29:56 AM	0.034	0.035	0.037	0.04	0.04			-0.031
10:30:56 AM	0.038	0.04	0.041	0.044	0.044			-0.034
10:31:56 AM	0.034	0.035	0.037	0.039	0.039			-0.036
10:32:56 AM	0.029	0.03	0.031	0.033	0.033			-0.043
10:33:56 AM	0.024	0.025	0.027	0.028	0.028			-0.032
10:34:56 AM	0.019	0.02	0.021	0.022	0.022			-0.044
10:35:56 AM	0.019	0.02	0.021	0.023	0.023			-0.045
10:36:56 AM	0.018	0.019	0.021	0.022	0.022			-0.044
10:37:56 AM	0.017	0.018	0.019	0.021	0.021			-0.04
10:38:56 AM	0.016	0.017	0.018	0.019	0.019			-0.02
10:39:56 AM	0.024	0.025	0.026	0.028	0.028			-0.02
10:40:56 AM	0.031	0.033	0.034	0.036	0.036			-0.011
10:41:56 AM	0.032	0.033	0.035	0.036	0.037			-0.009
10:42:56 AM	0.029	0.03	0.032	0.033	0.034			-0.009
10:43:56 AM	0.024	0.025	0.026	0.028	0.028			-0.016
10:44:56 AM	0.021	0.022	0.023	0.024	0.024			-0.018
10:45:56 AM	0.02	0.021	0.023	0.024	0.025			-0.015
10:46:56 AM	0.023	0.024	0.025	0.027	0.027			-0.013
10:47:56 AM	0.025	0.026	0.027	0.029	0.029			-0.008
10:48:56 AM	0.026	0.027	0.029	0.031	0.031			-0.007
10:49:56 AM	0.026	0.027	0.028	0.031	0.031			-0.008
10:50:56 AM	0.023	0.024	0.026	0.027	0.027			-0.005
10:51:56 AM	0.024	0.025	0.026	0.029	0.029			-0.001
10:52:56 AM	0.024	0.025	0.026	0.029	0.03			-0.004
10:53:56 AM	0.023	0.024	0.026	0.028	0.028			-0.004
10:54:56 AM	0.026	0.027	0.029	0.03	0.03			0.002
10:55:56 AM	0.028	0.03	0.032	0.034	0.035			0.01
10:56:56 AM	0.048	0.051	0.055	0.058	0.058			0.034
10:57:56 AM	0.022	0.023	0.024	0.026	0.026			0
10:58:56 AM	0.026	0.028	0.029	0.032	0.032			0.007
10:59:56 AM	0.024	0.025	0.026	0.028	0.028			0.007

11:00:19 AM	0.014	0.015	0.016	0.019	0.019		11:00:56 AM	0.053	0.057	0.06	0.063	0.064	0.045
11:01:19 AM	0.014	0.015	0.017	0.02	0.02		11:01:56 AM	0.054	0.058	0.061	0.064	0.064	0.044
11:02:19 AM	0.014	0.015	0.017	0.019	0.019		11:02:56 AM	0.042	0.045	0.047	0.049	0.049	0.03
11:03:19 AM	0.013	0.015	0.016	0.017	0.017		11:03:56 AM	0.023	0.025	0.026	0.028	0.028	0.011
11:04:19 AM	0.014	0.015	0.016	0.018	0.018		11:04:56 AM	0.022	0.023	0.024	0.026	0.026	0.008
11:05:19 AM	0.013	0.014	0.015	0.017	0.017		11:05:56 AM	0.029	0.03	0.032	0.033	0.033	0.016
11:06:19 AM	0.019	0.019	0.02	0.022	0.022		11:06:56 AM	0.048	0.051	0.053	0.057	0.057	0.035
11:07:19 AM	0.016	0.017	0.017	0.019	0.019		11:07:56 AM	0.055	0.059	0.063	0.068	0.068	0.049
11:08:19 AM	0.014	0.014	0.015	0.016	0.016		11:08:56 AM	0.028	0.029	0.031	0.032	0.032	0.016
11:09:19 AM	0.013	0.013	0.014	0.015	0.015		11:09:56 AM	0.018	0.019	0.02	0.021	0.021	0.006
11:10:19 AM	0.012	0.013	0.014	0.015	0.015		11:10:56 AM	0.025	0.026	0.027	0.029	0.029	0.014
11:11:19 AM	0.012	0.013	0.014	0.015	0.015		11:11:56 AM	0.027	0.029	0.03	0.032	0.032	0.017
11:12:19 AM	0.014	0.015	0.017	0.02	0.02		11:12:56 AM	0.026	0.028	0.03	0.032	0.033	0.013
11:13:19 AM	0.017	0.018	0.02	0.026	0.027		11:13:56 AM	0.034	0.036	0.04	0.045	0.045	0.018
11:14:19 AM	0.027	0.029	0.033	0.041	0.042		11:14:56 AM	0.031	0.033	0.036	0.042	0.042	0
11:15:19 AM	0.024	0.026	0.029	0.035	0.036		11:15:56 AM	0.037	0.039	0.042	0.045	0.046	0.01
11:16:19 AM	0.026	0.028	0.032	0.038	0.039		11:16:56 AM	0.033	0.034	0.037	0.04	0.041	0.002
11:17:19 AM	0.035	0.038	0.044	0.054	0.055		11:17:56 AM	0.031	0.033	0.036	0.041	0.041	-0.014
11:18:19 AM	0.029	0.032	0.035	0.042	0.042		11:18:56 AM	0.026	0.028	0.03	0.033	0.033	-0.009
11:19:19 AM	0.024	0.027	0.029	0.034	0.034		11:19:56 AM	0.028	0.029	0.032	0.037	0.037	0.003
11:20:19 AM	0.025	0.028	0.032	0.038	0.038		11:20:56 AM	0.03	0.032	0.035	0.041	0.042	0.004
11:21:19 AM	0.023	0.025	0.028	0.035	0.035		11:21:56 AM	0.033	0.036	0.04	0.047	0.048	0.013
11:22:19 AM	0.021	0.023	0.026	0.033	0.033		11:22:56 AM	0.03	0.032	0.035	0.04	0.041	0.008
11:23:19 AM	0.02	0.022	0.026	0.033	0.033		11:23:56 AM	0.029	0.031	0.034	0.038	0.038	0.005
11:24:19 AM	0.019	0.021	0.023	0.029	0.03		11:24:56 AM	0.028	0.03	0.033	0.037	0.038	0.008
11:25:19 AM	0.018	0.02	0.022	0.028	0.028		11:25:56 AM	0.027	0.029	0.033	0.038	0.039	0.011
11:26:19 AM	0.025	0.027	0.031	0.041	0.041		11:26:56 AM	0.023	0.025	0.027	0.032	0.032	-0.009
11:27:19 AM	0.019	0.021	0.024	0.03	0.03		11:27:56 AM	0.02	0.021	0.023	0.026	0.026	-0.004
11:28:19 AM	0.016	0.017	0.019	0.022	0.023		11:28:56 AM	0.03	0.031	0.033	0.036	0.037	0.014
11:29:19 AM	0.019	0.021	0.023	0.029	0.03		11:29:56 AM	0.029	0.031	0.033	0.035	0.036	0.006
11:30:19 AM	0.023	0.025	0.029	0.036	0.037		11:30:56 AM	0.021	0.022	0.024	0.026	0.026	-0.011
11:31:19 AM	0.022	0.025	0.028	0.035	0.035		11:31:56 AM	0.017	0.018	0.019	0.021	0.021	-0.014
11:32:19 AM	0.022	0.025	0.028	0.034	0.034		11:32:56 AM	0.021	0.022	0.024	0.028	0.029	-0.005
11:33:19 AM	0.022	0.024	0.027	0.031	0.031		11:33:56 AM	0.025	0.027	0.03	0.035	0.035	0.004
11:34:19 AM	0.03	0.032	0.035	0.041	0.042		11:34:56 AM	0.022	0.023	0.026	0.029	0.029	-0.013
11:35:19 AM	0.026	0.028	0.031	0.038	0.039		11:35:56 AM	0.023	0.024	0.027	0.03	0.03	-0.009
11:36:19 AM	0.028	0.03	0.034	0.039	0.039		11:36:56 AM	0.024	0.026	0.028	0.032	0.033	-0.006
11:37:19 AM	0.026	0.028	0.031	0.036	0.036		11:37:56 AM	0.033	0.036	0.04	0.047	0.048	0.012
11:38:19 AM	0.03	0.032	0.036	0.042	0.042		11:38:56 AM	0.034	0.036	0.04	0.047	0.047	0.005
11:39:19 AM	0.031	0.034	0.038	0.046	0.046		11:39:56 AM	0.033	0.036	0.04	0.046	0.047	0.001
11:40:19 AM	0.031	0.033	0.036	0.042	0.043		11:40:56 AM	0.032	0.034	0.037	0.043	0.043	0
11:41:19 AM	0.033	0.036	0.04	0.048	0.049		11:41:56 AM	0.031	0.033	0.036	0.041	0.042	-0.007
11:42:19 AM	0.031	0.034	0.038	0.045	0.045		11:42:56 AM	0.033	0.035	0.039	0.044	0.044	-0.001
11:43:19 AM	0.033	0.036	0.04	0.046	0.047		11:43:56 AM	0.045	0.049	0.055	0.064	0.065	0.018
11:44:19 AM	0.038	0.042	0.046	0.055	0.057		11:44:56 AM	0.048	0.052	0.059	0.069	0.069	0.012
11:45:19 AM	0.039	0.043	0.048	0.058	0.058		11:45:56 AM	0.046	0.05	0.056	0.065	0.066	0.008
11:46:19 AM	0.038	0.042	0.047	0.056	0.056		11:46:56 AM	0.043	0.047	0.052	0.061	0.062	0.006
11:47:19 AM	0.031	0.034	0.039	0.046	0.046		11:47:56 AM	0.041	0.044	0.049	0.057	0.058	0.012
11:48:19 AM	0.04	0.044	0.049	0.057	0.057		11:48:56 AM	0.038	0.041	0.045	0.052	0.053	-0.004
11:49:19 AM	0.048	0.052	0.058	0.066	0.066		11:49:56 AM	0.034	0.037	0.04	0.045	0.046	-0.02
11:50:19 AM	0.047	0.051	0.056	0.063	0.063		11:50:56 AM	0.032	0.035	0.037	0.042	0.042	-0.021
11:51:19 AM	0.053	0.057	0.062	0.07	0.071		11:51:56 AM	0.036	0.038	0.041	0.044	0.046	-0.025
11:52:19 AM	0.054	0.058	0.063	0.072	0.073		11:52:56 AM	0.034	0.036	0.038	0.042	0.042	-0.031
11:53:19 AM	0.048	0.052	0.056	0.064	0.064		11:53:56 AM	0.031	0.033	0.036	0.039	0.04	-0.024
11:54:19 AM	0.048	0.052	0.057	0.066	0.066		11:54:56 AM	0.036	0.039	0.043	0.047	0.048	-0.018
11:55:19 AM	0.055	0.059	0.064	0.071	0.073		11:55:56 AM	0.039	0.042	0.045	0.051	0.051	-0.022
11:56:19 AM	0.051	0.056	0.061	0.07	0.07		11:56:56 AM	0.035	0.037	0.039	0.044	0.044	-0.026
11:57:19 AM	0.044	0.049	0.054	0.063	0.064		11:57:56 AM	0.032	0.034	0.037	0.041	0.041	-0.023
11:58:19 AM	0.043	0.047	0.052	0.06	0.061		11:58:56 AM	0.03	0.032	0.034	0.038	0.038	-0.023
11:59:19 AM	0.042	0.046	0.05	0.057	0.058		11:59:56 AM	0.03	0.032	0.034	0.038	0.038	-0.02
12:00:19 PM	0.045	0.049	0.053	0.062	0.062		12:00:56 PM	0.029	0.031	0.033	0.037	0.038	-0.024
12:01:19 PM	0.044	0.048	0.052	0.06	0.061		12:01:56 PM	0.03	0.032	0.035	0.039	0.039	-0.022
12:02:19 PM	0.041	0.045	0.048	0.056	0.056		12:02:56 PM	0.029	0.031	0.033	0.037	0.037	-0.019
12:03:19 PM	0.038	0.042	0.045	0.053	0.053		12:03:56 PM	0.025	0.027	0.029	0.031	0.031	-0.022
12:04:19 PM	0.033	0.035	0.039	0.045	0.046		12:04:56 PM	0.025	0.027	0.028	0.031	0.031	-0.015
12:05:19 PM	0.029	0.032	0.035	0.04	0.041		12:05:56 PM	0.024	0.026	0.027	0.029	0.029	-0.012
12:06:19 PM	0.03	0.033	0.036	0.041	0.041		12:06:56 PM	0.023	0.024	0.025	0.027	0.028	-0.013
12:07:19 PM	0.033	0.036	0.039	0.045	0.047		12:07:56 PM	0.022	0.023	0.024	0.026	0.026	-0.021
12:08:19 PM	0.027	0.03	0.032	0.037	0.037		12:08:56 PM	0.02	0.021	0.023	0.024	0.024	-0.013
12:09:19 PM	0.032	0.035	0.037	0.042	0.043		12:09:56 PM	0.021	0.022	0.023	0.025	0.025	-0.018
12:10:19 PM	0.035	0.038	0.041	0.047	0.047		12:10:56 PM	0.021	0.021	0.022	0.024	0.025	-0.022
12:11:19 PM	0.034	0.037	0.04	0.045	0.045		12:11:56 PM	0.02	0.021	0.022	0.023	0.023	-0.022
12:12:19 PM	0.035	0.038	0.042	0.047	0.047		12:12:56 PM	0.02	0.021	0.021	0.023	0.023	-0.024
12:13:19 PM	0.034	0.036	0.039	0.043	0.043		12:13:56 PM	0.021	0.022	0.023	0.024	0.024	-0.019
12:14:19 PM	0.035	0.038	0.04	0.045	0.045		12:14:56 PM	0.023	0.024	0.025	0.026	0.026	-0.019
12:15:19 PM	0.038	0.04	0.043	0.046	0.046		12:15:56 PM	0.026	0.027	0.028	0.03	0.03	-0.016
12:16:19 PM	0.037	0.04	0.042	0.045	0.045		12:16:56 PM	0.023	0.024	0.025	0.026	0.026	-0.019
12:17:19 PM	0.029	0.031	0.034	0.037	0.037		12:17:56 PM	0.023	0.024	0.025	0.026	0.026	-0.011
12:18:19 PM	0.03	0.032	0.035	0.041	0.041		12:18:56 PM	0.025	0.026	0.027	0.029	0.029	-0.012
12:19:19 PM	0.029	0.032	0.035	0.039	0.039		12:19:56 PM	0.027	0.028	0.03	0.032	0.033	-0.006
12:20:19 PM	0.03	0.032	0.035	0.039	0.039		12:20:56 PM	0.027	0.028	0.03	0.032	0.032	-0.007
12:21:19 PM	0.03	0.032	0.035	0.04	0.041		12:21:56 PM	0.027	0.028	0.03	0.032	0.032	-0.009

12:22:19 PM	0.026	0.028	0.03	0.034	0.034	12:22:56 PM	0.027	0.028	0.03	0.032	0.032	-0.002
12:23:19 PM	0.025	0.027	0.029	0.033	0.033	12:23:56 PM	0.025	0.026	0.028	0.029	0.03	-0.003
12:24:19 PM	0.029	0.031	0.033	0.037	0.037	12:24:56 PM	0.022	0.023	0.024	0.026	0.026	-0.011
12:25:19 PM	0.028	0.03	0.033	0.036	0.038	12:25:56 PM	0.022	0.022	0.024	0.025	0.025	-0.013
12:26:19 PM	0.03	0.033	0.035	0.039	0.039	12:26:56 PM	0.023	0.024	0.025	0.028	0.028	-0.011
12:27:19 PM	0.032	0.034	0.036	0.04	0.04	12:27:56 PM	0.028	0.029	0.03	0.032	0.032	-0.008
12:28:19 PM	0.039	0.042	0.044	0.048	0.048	12:28:56 PM	0.028	0.029	0.031	0.033	0.034	-0.014
12:29:19 PM	0.044	0.047	0.05	0.056	0.056	12:29:56 PM	0.03	0.031	0.033	0.036	0.037	-0.019
12:30:19 PM	0.041	0.044	0.048	0.057	0.058	12:30:56 PM	0.031	0.032	0.034	0.039	0.039	-0.019
12:31:19 PM	0.033	0.035	0.039	0.045	0.045	12:31:56 PM	0.029	0.03	0.032	0.035	0.035	-0.01
12:32:19 PM	0.031	0.033	0.036	0.043	0.044	12:32:56 PM	0.026	0.027	0.028	0.03	0.03	-0.014
12:33:19 PM	0.028	0.03	0.033	0.039	0.04	12:33:56 PM	0.025	0.026	0.027	0.029	0.029	-0.011
12:34:19 PM	0.025	0.027	0.029	0.033	0.033	12:34:56 PM	0.025	0.026	0.027	0.029	0.03	-0.003
12:35:19 PM	0.025	0.026	0.028	0.032	0.032	12:35:56 PM	0.024	0.025	0.026	0.028	0.028	-0.004
12:36:19 PM	0.025	0.027	0.029	0.034	0.035	12:36:56 PM	0.023	0.023	0.024	0.026	0.026	-0.009
12:37:19 PM	0.024	0.025	0.027	0.031	0.031	12:37:56 PM	0.022	0.023	0.024	0.026	0.027	-0.004
12:38:19 PM	0.023	0.025	0.027	0.031	0.031	12:38:56 PM	0.022	0.023	0.024	0.025	0.025	-0.006
12:39:19 PM	0.022	0.023	0.025	0.028	0.029	12:39:56 PM	0.022	0.022	0.023	0.025	0.025	-0.004
12:40:19 PM	0.023	0.025	0.026	0.031	0.031	12:40:56 PM	0.021	0.022	0.023	0.024	0.024	-0.007
12:41:19 PM	0.021	0.022	0.024	0.026	0.026	12:41:56 PM	0.021	0.022	0.023	0.024	0.024	-0.002
12:42:19 PM	0.019	0.02	0.022	0.024	0.025	12:42:56 PM	0.02	0.02	0.021	0.022	0.022	-0.003
12:43:19 PM	0.019	0.02	0.022	0.025	0.025	12:43:56 PM	0.019	0.02	0.021	0.022	0.023	-0.002
12:44:19 PM	0.02	0.021	0.023	0.026	0.026	12:44:56 PM	0.02	0.02	0.021	0.022	0.023	-0.003
12:45:19 PM	0.02	0.021	0.023	0.027	0.027	12:45:56 PM	0.019	0.02	0.021	0.022	0.022	-0.005
12:46:19 PM	0.02	0.021	0.023	0.026	0.027	12:46:56 PM	0.019	0.019	0.02	0.022	0.022	-0.005
12:47:19 PM	0.019	0.021	0.023	0.026	0.026	12:47:56 PM	0.018	0.019	0.02	0.021	0.021	-0.005
12:48:19 PM	0.018	0.019	0.021	0.024	0.024	12:48:56 PM	0.017	0.018	0.019	0.02	0.021	-0.003
12:49:19 PM	0.018	0.019	0.021	0.025	0.025	12:49:56 PM	0.017	0.017	0.018	0.02	0.02	-0.005
12:50:19 PM	0.017	0.018	0.02	0.023	0.023	12:50:56 PM	0.017	0.018	0.019	0.02	0.02	-0.003
12:51:19 PM	0.021	0.023	0.025	0.03	0.03	12:51:56 PM	0.02	0.021	0.022	0.024	0.024	-0.006
12:52:19 PM	0.023	0.026	0.028	0.033	0.033	12:52:56 PM	0.02	0.021	0.023	0.024	0.024	-0.009
12:53:19 PM	0.02	0.022	0.024	0.028	0.028	12:53:56 PM	0.018	0.019	0.021	0.022	0.022	-0.006
12:54:19 PM	0.019	0.021	0.023	0.027	0.027	12:54:56 PM	0.018	0.019	0.02	0.021	0.022	-0.005
12:55:19 PM	0.018	0.019	0.021	0.023	0.023	12:55:56 PM	0.017	0.018	0.019	0.021	0.021	-0.002
12:56:19 PM	0.022	0.024	0.026	0.028	0.028	12:56:56 PM	0.02	0.021	0.022	0.023	0.023	-0.005
12:57:19 PM	0.025	0.027	0.028	0.031	0.031	12:57:56 PM	0.022	0.023	0.024	0.025	0.025	-0.006
12:58:19 PM	0.026	0.028	0.03	0.032	0.033	12:58:56 PM	0.024	0.025	0.026	0.027	0.027	-0.006
12:59:19 PM	0.025	0.026	0.028	0.03	0.03	12:59:56 PM	0.025	0.025	0.026	0.027	0.027	-0.003
1:00:19 PM	0.022	0.023	0.025	0.027	0.027	1:00:56 PM	0.023	0.023	0.024	0.025	0.025	-0.002
1:01:19 PM	0.02	0.022	0.023	0.026	0.026	1:01:56 PM	0.022	0.023	0.023	0.024	0.024	-0.002
1:02:19 PM	0.02	0.021	0.023	0.026	0.026	1:02:56 PM	0.021	0.021	0.022	0.024	0.024	-0.002
1:03:19 PM	0.02	0.021	0.023	0.026	0.026	1:03:56 PM	0.02	0.021	0.022	0.023	0.024	-0.002
1:04:19 PM	0.019	0.02	0.022	0.025	0.025	1:04:56 PM	0.019	0.02	0.021	0.022	0.022	-0.003
1:05:19 PM	0.019	0.02	0.022	0.025	0.025	1:05:56 PM	0.018	0.019	0.02	0.021	0.021	-0.004
1:06:19 PM	0.021	0.022	0.023	0.026	0.027	1:06:56 PM	0.018	0.019	0.019	0.02	0.021	-0.006
1:07:19 PM	0.022	0.024	0.025	0.027	0.028	1:07:56 PM	0.018	0.018	0.019	0.02	0.02	-0.008
1:08:19 PM	0.024	0.025	0.026	0.029	0.029	1:08:56 PM	0.017	0.018	0.018	0.019	0.019	-0.01
1:09:19 PM	0.027	0.029	0.031	0.033	0.033	1:09:56 PM	0.019	0.02	0.021	0.023	0.023	-0.01
1:10:19 PM	0.026	0.028	0.03	0.033	0.033	1:10:56 PM	0.022	0.023	0.024	0.025	0.025	-0.008
1:11:19 PM	0.028	0.03	0.033	0.038	0.038	1:11:56 PM	0.021	0.021	0.022	0.024	0.024	-0.014
1:12:19 PM	0.029	0.031	0.033	0.038	0.039	1:12:56 PM	0.021	0.022	0.023	0.024	0.024	-0.015
1:13:19 PM	0.029	0.031	0.034	0.039	0.04	1:13:56 PM	0.022	0.023	0.024	0.026	0.026	-0.014
1:14:19 PM	0.036	0.038	0.041	0.047	0.048	1:14:56 PM	0.023	0.024	0.025	0.027	0.027	-0.021
1:15:19 PM	0.033	0.036	0.039	0.045	0.045	1:15:56 PM	0.025	0.026	0.027	0.028	0.029	-0.016
1:16:19 PM	0.035	0.038	0.041	0.047	0.047	1:16:56 PM	0.026	0.027	0.029	0.031	0.031	-0.016
1:17:19 PM	0.029	0.031	0.035	0.04	0.04	1:17:56 PM	0.025	0.026	0.028	0.03	0.03	-0.01
1:18:19 PM	0.028	0.031	0.034	0.039	0.039	1:18:56 PM	0.024	0.025	0.027	0.029	0.029	-0.01
1:19:19 PM	0.027	0.029	0.031	0.036	0.036	1:19:56 PM	0.023	0.024	0.026	0.028	0.028	-0.008
1:20:19 PM	0.023	0.025	0.027	0.032	0.032	1:20:56 PM	0.023	0.023	0.025	0.027	0.027	-0.005
1:21:19 PM	0.025	0.027	0.03	0.036	0.036	1:21:56 PM	0.02	0.021	0.022	0.024	0.024	-0.012
1:22:19 PM	0.025	0.027	0.03	0.036	0.037	1:22:56 PM	0.022	0.023	0.025	0.027	0.027	-0.01
1:23:19 PM	0.021	0.024	0.026	0.031	0.032	1:23:56 PM	0.02	0.021	0.023	0.025	0.025	-0.007
1:24:19 PM	0.02	0.022	0.024	0.029	0.029	1:24:56 PM	0.019	0.02	0.022	0.023	0.024	-0.005
1:25:19 PM	0.019	0.021	0.023	0.027	0.027	1:25:56 PM	0.019	0.02	0.021	0.023	0.024	-0.003
1:26:19 PM	0.018	0.02	0.022	0.026	0.026	1:26:56 PM	0.017	0.018	0.019	0.021	0.021	-0.005
1:27:19 PM	0.018	0.02	0.022	0.025	0.025	1:27:56 PM	0.016	0.017	0.018	0.019	0.019	-0.006
1:28:19 PM	0.018	0.019	0.021	0.024	0.025	1:28:56 PM	0.016	0.016	0.017	0.019	0.019	-0.006
1:29:19 PM	0.018	0.02	0.022	0.026	0.026	1:29:56 PM	0.016	0.016	0.017	0.019	0.019	-0.007
1:30:19 PM	0.018	0.019	0.021	0.026	0.026	1:30:56 PM	0.017	0.018	0.019	0.021	0.021	-0.005
1:31:19 PM	0.018	0.019	0.022	0.026	0.026	1:31:56 PM	0.016	0.017	0.019	0.02	0.021	-0.005
1:32:19 PM	0.018	0.019	0.022	0.027	0.028	1:32:56 PM	0.016	0.017	0.018	0.02	0.02	-0.008
1:33:19 PM	0.017	0.018	0.021	0.025	0.025	1:33:56 PM	0.015	0.016	0.017	0.018	0.019	-0.006
1:34:19 PM	0.016	0.017	0.019	0.023	0.023	1:34:56 PM	0.015	0.016	0.017	0.018	0.018	-0.005
1:35:19 PM	0.017	0.019	0.021	0.025	0.025	1:35:56 PM	0.014	0.015	0.016	0.017	0.017	-0.008
1:36:19 PM	0.017	0.019	0.02	0.026	0.026	1:36:56 PM	0.015	0.016	0.017	0.019	0.019	-0.007
1:37:19 PM	0.02	0.021	0.024	0.028	0.029	1:37:56 PM	0.017	0.018	0.02	0.022	0.022	-0.007
1:38:19 PM	0.017	0.019	0.021	0.025	0.025	1:38:56 PM	0.018	0.019	0.02	0.022	0.022	-0.003
1:39:19 PM	0.016	0.018	0.02	0.023	0.024	1:39:56 PM	0.017	0.018	0.019	0.02	0.02	-0.004
1:40:19 PM	0.015	0.016	0.017	0.02	0.02	1:40:56 PM	0.014	0.015	0.016	0.017	0.017	-0.003
1:41:19 PM	0.015	0.016	0.018	0.02	0.021	1:41:56 PM	0.013	0.013	0.014	0.015	0.015	-0.006
1:42:19 PM	0.015	0.016	0.018	0.021	0.021	1:42:56 PM	0.013	0.013	0.014	0.015	0.015	-0.006
1:43:19 PM	0.014	0.015	0.017	0.019	0.02	1:43:56 PM	0.012	0.013	0.014	0.014	0.014	-0.006

1:44:19 PM	0.014	0.015	0.016	0.018	0.019	1:44:56 PM	0.013	0.013	0.014	0.015	0.015	-0.004
1:45:19 PM	0.014	0.015	0.016	0.021	0.021	1:45:56 PM	0.012	0.013	0.014	0.014	0.014	-0.007
1:46:19 PM	0.014	0.016	0.017	0.021	0.022	1:46:56 PM	0.013	0.014	0.015	0.016	0.017	-0.005
1:47:19 PM	0.022	0.024	0.028	0.038	0.039	1:47:56 PM	0.012	0.012	0.013	0.014	0.014	-0.025
1:48:19 PM	0.044	0.049	0.059	0.091	0.094	1:48:56 PM	0.012	0.013	0.014	0.015	0.016	-0.078
1:49:19 PM	0.033	0.036	0.041	0.062	0.064	1:49:56 PM	0.016	0.017	0.018	0.021	0.021	-0.043
1:50:19 PM	0.035	0.038	0.045	0.063	0.065	1:50:56 PM	0.017	0.018	0.02	0.023	0.024	-0.041
1:51:19 PM	0.028	0.03	0.035	0.046	0.048	1:51:56 PM	0.017	0.018	0.02	0.024	0.025	-0.023
1:52:19 PM	0.02	0.022	0.024	0.031	0.032	1:52:56 PM	0.016	0.017	0.018	0.02	0.021	-0.011
1:53:19 PM	0.017	0.019	0.021	0.025	0.025	1:53:56 PM	0.016	0.017	0.017	0.018	0.019	-0.006
1:54:19 PM	0.02	0.021	0.024	0.03	0.031	1:54:56 PM	0.016	0.017	0.018	0.019	0.019	-0.012
1:55:19 PM	0.018	0.019	0.021	0.025	0.025	1:55:56 PM	0.017	0.018	0.019	0.02	0.021	-0.004
1:56:19 PM	0.024	0.026	0.029	0.035	0.035	1:56:56 PM	0.017	0.018	0.019	0.02	0.02	-0.015
1:57:19 PM	0.022	0.024	0.026	0.032	0.033	1:57:56 PM	0.018	0.018	0.019	0.021	0.022	-0.011
1:58:19 PM	0.028	0.03	0.033	0.041	0.042	1:58:56 PM	0.018	0.018	0.019	0.02	0.021	-0.021
1:59:19 PM	0.026	0.028	0.031	0.036	0.037	1:59:56 PM	0.016	0.017	0.018	0.019	0.02	-0.017
2:00:19 PM	0.024	0.026	0.028	0.034	0.034	2:00:56 PM	0.016	0.016	0.017	0.018	0.019	-0.015
2:01:19 PM	0.02	0.021	0.023	0.027	0.028	2:01:56 PM	0.016	0.017	0.018	0.02	0.02	-0.008
2:02:19 PM	0.017	0.018	0.02	0.023	0.024	2:02:56 PM	0.016	0.017	0.018	0.019	0.019	-0.005
2:03:19 PM	0.017	0.018	0.019	0.022	0.022	2:03:56 PM	0.016	0.016	0.017	0.018	0.018	-0.004
2:04:19 PM	0.017	0.018	0.02	0.023	0.023	2:04:56 PM	0.018	0.018	0.02	0.021	0.021	-0.002
2:05:19 PM	0.017	0.018	0.02	0.023	0.023	2:05:56 PM	0.02	0.022	0.023	0.028	0.028	0.005
2:06:19 PM	0.022	0.024	0.027	0.033	0.033	2:06:56 PM	0.025	0.027	0.03	0.035	0.036	0.003
2:07:19 PM	0.03	0.033	0.038	0.049	0.05	2:07:56 PM	0.031	0.034	0.038	0.045	0.045	-0.005
2:08:19 PM	0.025	0.027	0.031	0.039	0.039	2:08:56 PM	0.025	0.027	0.03	0.035	0.036	-0.003
2:09:19 PM	0.021	0.023	0.025	0.031	0.031	2:09:56 PM	0.021	0.022	0.024	0.027	0.027	-0.004
2:10:19 PM	0.024	0.026	0.029	0.037	0.038	2:10:56 PM	0.019	0.02	0.021	0.024	0.024	-0.014
2:11:19 PM	0.022	0.024	0.027	0.033	0.034	2:11:56 PM	0.018	0.019	0.02	0.023	0.023	-0.011
2:12:19 PM	0.018	0.019	0.021	0.026	0.027	2:12:56 PM	0.018	0.019	0.02	0.022	0.022	-0.005
2:13:19 PM	0.019	0.021	0.023	0.027	0.027	2:13:56 PM	0.022	0.024	0.026	0.03	0.03	0.003
2:14:19 PM	0.027	0.029	0.032	0.039	0.04	2:14:56 PM	0.024	0.025	0.028	0.032	0.032	-0.008
2:15:19 PM	0.027	0.029	0.032	0.038	0.039	2:15:56 PM	0.034	0.037	0.042	0.05	0.052	0.013
2:16:19 PM	0.031	0.034	0.039	0.048	0.05	2:16:56 PM	0.035	0.039	0.043	0.051	0.052	0.002
2:17:19 PM	0.036	0.039	0.043	0.053	0.055	2:17:56 PM	0.029	0.031	0.035	0.041	0.041	-0.014
2:18:19 PM	0.028	0.03	0.034	0.04	0.041	2:18:56 PM	0.024	0.026	0.028	0.032	0.033	-0.008
2:19:19 PM	0.032	0.034	0.038	0.045	0.047	2:19:56 PM	0.024	0.026	0.029	0.034	0.034	-0.013
2:20:19 PM	0.041	0.043	0.046	0.052	0.053	2:20:56 PM	0.022	0.024	0.026	0.03	0.031	-0.022
2:21:19 PM	0.034	0.036	0.038	0.043	0.043	2:21:56 PM	0.02	0.021	0.023	0.026	0.026	-0.017
2:22:19 PM	0.031	0.032	0.034	0.038	0.038	2:22:56 PM	0.02	0.021	0.022	0.025	0.026	-0.012
2:23:19 PM	0.034	0.036	0.038	0.043	0.044	2:23:56 PM	0.023	0.024	0.025	0.027	0.027	-0.017
2:24:19 PM	0.035	0.037	0.04	0.044	0.045	2:24:56 PM	0.025	0.025	0.027	0.029	0.029	-0.016
2:25:19 PM	0.035	0.037	0.039	0.044	0.044	2:25:56 PM	0.024	0.025	0.026	0.027	0.028	-0.016
2:26:19 PM	0.035	0.037	0.039	0.042	0.043	2:26:56 PM	0.027	0.028	0.03	0.032	0.032	-0.011
2:27:19 PM	0.046	0.048	0.05	0.055	0.056	2:27:56 PM	0.025	0.026	0.027	0.029	0.029	-0.027
2:28:19 PM	0.05	0.052	0.055	0.061	0.062	2:28:56 PM	0.025	0.026	0.027	0.029	0.029	-0.033
2:29:19 PM	0.047	0.049	0.053	0.061	0.062	2:29:56 PM	0.026	0.027	0.028	0.031	0.031	-0.031
2:30:19 PM	0.039	0.042	0.046	0.056	0.057	2:30:56 PM	0.029	0.03	0.031	0.034	0.034	-0.023
2:31:19 PM	0.033	0.035	0.038	0.043	0.044	2:31:56 PM	0.029	0.03	0.032	0.034	0.034	-0.01
2:32:19 PM	0.034	0.037	0.04	0.05	0.05	2:32:56 PM	0.028	0.029	0.031	0.033	0.033	-0.017
2:33:19 PM	0.032	0.035	0.038	0.047	0.047	2:33:56 PM	0.032	0.034	0.037	0.041	0.041	-0.006
2:34:19 PM	0.029	0.032	0.034	0.04	0.041	2:34:56 PM	0.035	0.038	0.041	0.047	0.047	0.006
2:35:19 PM	0.033	0.036	0.041	0.049	0.05	2:35:56 PM	0.034	0.036	0.04	0.045	0.046	-0.004
2:36:19 PM	0.032	0.035	0.039	0.047	0.048	2:36:56 PM	0.027	0.029	0.031	0.035	0.035	-0.013
2:37:19 PM	0.03	0.032	0.036	0.043	0.044	2:37:56 PM	0.024	0.025	0.026	0.029	0.029	-0.015
2:38:19 PM	0.028	0.03	0.033	0.039	0.039	2:38:56 PM	0.022	0.023	0.024	0.026	0.026	-0.013
2:39:19 PM	0.027	0.029	0.031	0.036	0.036	2:39:56 PM	0.021	0.022	0.023	0.024	0.025	-0.011
2:40:19 PM	0.03	0.033	0.035	0.041	0.041	2:40:56 PM	0.021	0.022	0.023	0.026	0.026	-0.015
2:41:19 PM	0.03	0.032	0.035	0.041	0.041	2:41:56 PM	0.023	0.025	0.027	0.029	0.029	-0.012
2:42:19 PM	0.034	0.036	0.04	0.045	0.046	2:42:56 PM	0.025	0.027	0.029	0.032	0.032	-0.014
2:43:19 PM	0.033	0.035	0.037	0.041	0.042	2:43:56 PM	0.023	0.025	0.026	0.029	0.029	-0.013
2:44:19 PM	0.033	0.035	0.037	0.042	0.042	2:44:56 PM	0.024	0.025	0.027	0.03	0.03	-0.012
2:45:19 PM	0.033	0.036	0.039	0.044	0.045	2:45:56 PM	0.025	0.026	0.028	0.032	0.032	-0.013
2:46:19 PM	0.035	0.039	0.044	0.052	0.053	2:46:56 PM	0.027	0.029	0.031	0.035	0.035	-0.018
2:47:19 PM	0.03	0.033	0.036	0.041	0.042	2:47:56 PM	0.025	0.027	0.029	0.032	0.032	-0.01
2:48:19 PM	0.028	0.03	0.033	0.038	0.038	2:48:56 PM	0.023	0.024	0.025	0.027	0.028	-0.01
2:49:19 PM	0.031	0.035	0.039	0.046	0.047	2:49:56 PM	0.022	0.023	0.024	0.026	0.026	-0.021
2:50:19 PM	0.028	0.03	0.033	0.041	0.041	2:50:56 PM	0.023	0.025	0.026	0.029	0.03	-0.011
2:51:19 PM	0.028	0.03	0.033	0.038	0.038	2:51:56 PM	0.022	0.023	0.025	0.028	0.028	-0.01
2:52:19 PM	0.024	0.026	0.028	0.034	0.034	2:52:56 PM	0.021	0.022	0.024	0.027	0.028	-0.006
2:53:19 PM	0.024	0.026	0.028	0.034	0.034	2:53:56 PM	0.02	0.02	0.022	0.023	0.023	-0.011
2:54:19 PM	0.022	0.024	0.026	0.031	0.031	2:54:56 PM	0.02	0.021	0.022	0.024	0.024	-0.007
2:55:19 PM	0.018	0.019	0.021	0.024	0.024	2:55:56 PM	0.018	0.018	0.019	0.021	0.021	-0.003
2:56:19 PM	0.019	0.02	0.022	0.025	0.025	2:56:56 PM	0.018	0.018	0.019	0.021	0.021	-0.004
2:57:19 PM	0.021	0.022	0.024	0.027	0.027	2:57:56 PM	0.018	0.018	0.019	0.02	0.02	-0.007
2:58:19 PM	0.024	0.026	0.028	0.034	0.034	2:58:56 PM	0.018	0.018	0.019	0.02	0.021	-0.013
2:59:19 PM	0.027	0.029	0.032	0.037	0.038	2:59:56 PM	0.019	0.02	0.021	0.023	0.023	-0.015
3:00:19 PM	0.028	0.031	0.034	0.04	0.04	3:00:56 PM	0.019	0.02	0.021	0.023	0.023	-0.017
3:01:19 PM	0.026	0.028	0.031	0.036	0.036	3:01:56 PM	0.02	0.021	0.022	0.025	0.025	-0.011
3:02:19 PM	0.027	0.029	0.032	0.038	0.038	3:02:56 PM	0.02	0.021	0.022	0.025	0.025	-0.013
3:03:19 PM	0.033	0.035	0.038	0.043	0.044	3:03:56 PM	0.023	0.024	0.026	0.029	0.029	-0.015
3:04:19 PM	0.034	0.036	0.039	0.044	0.044	3:04:56 PM	0.021	0.021	0.023	0.025	0.025	-0.019
3:05:19 PM	0.03	0.032	0.035	0.041	0.041	3:05:56 PM	0.02	0.02	0.021	0.023	0.023	-0.018

3:06:19 PM	0.032	0.034	0.036	0.04	0.041	3:06:56 PM	0.021	0.022	0.023	0.024	0.024	-0.017
3:07:19 PM	0.034	0.036	0.038	0.042	0.042	3:07:56 PM	0.021	0.022	0.023	0.024	0.024	-0.018
3:08:19 PM	0.039	0.041	0.043	0.047	0.047	3:08:56 PM	0.023	0.023	0.025	0.027	0.027	-0.02
3:09:19 PM	0.037	0.04	0.042	0.047	0.047	3:09:56 PM	0.022	0.022	0.023	0.025	0.025	-0.022
3:10:19 PM	0.029	0.031	0.033	0.037	0.038	3:10:56 PM	0.022	0.023	0.023	0.025	0.026	-0.012
3:11:19 PM	0.026	0.027	0.029	0.033	0.033	3:11:56 PM	0.021	0.022	0.023	0.024	0.024	-0.009
3:12:19 PM	0.025	0.026	0.028	0.03	0.03	3:12:56 PM	0.021	0.022	0.023	0.024	0.024	-0.006
3:13:19 PM	0.026	0.027	0.029	0.031	0.031	3:13:56 PM	0.021	0.022	0.023	0.024	0.024	-0.007
3:14:19 PM	0.025	0.027	0.028	0.032	0.032	3:14:56 PM	0.024	0.025	0.026	0.028	0.028	-0.004
3:15:19 PM	0.026	0.028	0.03	0.035	0.035	3:15:56 PM	0.026	0.027	0.028	0.031	0.031	-0.004
3:16:19 PM	0.025	0.027	0.03	0.036	0.036	3:16:56 PM	0.028	0.029	0.031	0.035	0.035	-0.001
3:17:19 PM	0.025	0.026	0.029	0.033	0.033	3:17:56 PM	0.024	0.025	0.027	0.031	0.031	-0.002
3:18:19 PM	0.026	0.028	0.03	0.035	0.035	3:18:56 PM	0.031	0.033	0.036	0.041	0.041	0.006
3:19:19 PM	0.026	0.028	0.031	0.038	0.038	3:19:56 PM	0.035	0.038	0.042	0.049	0.049	0.011
3:20:19 PM	0.025	0.027	0.03	0.035	0.036	3:20:56 PM	0.025	0.026	0.028	0.032	0.032	-0.004
3:21:19 PM	0.022	0.024	0.025	0.029	0.029	3:21:56 PM	0.021	0.022	0.023	0.025	0.025	-0.004
3:22:19 PM	0.022	0.024	0.026	0.03	0.03	3:22:56 PM	0.02	0.021	0.023	0.024	0.025	-0.005
3:23:19 PM	0.023	0.024	0.026	0.03	0.031	3:23:56 PM	0.021	0.022	0.024	0.027	0.027	-0.004
3:24:19 PM	0.027	0.028	0.031	0.034	0.034	3:24:56 PM	0.021	0.022	0.024	0.026	0.027	-0.007
3:25:19 PM	0.025	0.027	0.029	0.032	0.032	3:25:56 PM	0.02	0.02	0.021	0.023	0.023	-0.009
3:26:19 PM	0.024	0.025	0.027	0.03	0.031	3:26:56 PM	0.02	0.021	0.022	0.024	0.024	-0.007
3:27:19 PM	0.021	0.023	0.024	0.027	0.028	3:27:56 PM	0.02	0.021	0.021	0.023	0.024	-0.004
3:28:19 PM	0.021	0.022	0.024	0.027	0.027	3:28:56 PM	0.019	0.019	0.02	0.022	0.022	-0.005
3:29:19 PM	0.021	0.022	0.024	0.028	0.028	3:29:56 PM	0.018	0.019	0.02	0.021	0.021	-0.007
3:30:19 PM	0.02	0.022	0.023	0.027	0.027	3:30:56 PM	0.018	0.019	0.02	0.021	0.022	-0.005
3:31:19 PM	0.019	0.02	0.022	0.025	0.025	3:31:56 PM	0.018	0.019	0.02	0.021	0.022	-0.003
3:32:19 PM	0.02	0.022	0.023	0.028	0.028	3:32:56 PM	0.019	0.02	0.021	0.023	0.023	-0.005
3:33:19 PM	0.021	0.022	0.024	0.027	0.028	3:33:56 PM	0.018	0.019	0.02	0.021	0.021	-0.007
3:34:19 PM	0.021	0.022	0.024	0.028	0.028	3:34:56 PM	0.02	0.021	0.023	0.025	0.026	-0.002
3:35:19 PM	0.023	0.025	0.027	0.032	0.032	3:35:56 PM	0.024	0.026	0.027	0.031	0.031	-0.001
3:36:19 PM	0.023	0.025	0.027	0.031	0.032	3:36:56 PM	0.024	0.025	0.027	0.029	0.029	-0.003
3:37:19 PM	0.024	0.025	0.027	0.03	0.031	3:37:56 PM	0.021	0.022	0.023	0.024	0.024	-0.007
3:38:19 PM	0.024	0.026	0.028	0.031	0.031	3:38:56 PM	0.021	0.021	0.022	0.023	0.023	-0.008
3:39:19 PM	0.023	0.024	0.025	0.029	0.03	3:39:56 PM	0.022	0.023	0.024	0.026	0.026	-0.004
3:40:19 PM	0.022	0.024	0.025	0.029	0.029	3:40:56 PM	0.021	0.022	0.023	0.024	0.024	-0.005
3:41:19 PM	0.022	0.023	0.025	0.03	0.031	3:41:56 PM	0.021	0.022	0.023	0.024	0.025	-0.006
3:42:19 PM	0.022	0.024	0.026	0.029	0.03	3:42:56 PM	0.028	0.029	0.031	0.034	0.034	0.004
3:43:19 PM	0.027	0.03	0.034	0.042	0.042	3:43:56 PM	0.029	0.032	0.034	0.039	0.039	-0.003
3:44:19 PM	0.023	0.025	0.028	0.034	0.034	3:44:56 PM	0.026	0.028	0.03	0.034	0.034	0
3:45:19 PM	0.022	0.024	0.027	0.032	0.033	3:45:56 PM	0.035	0.038	0.042	0.049	0.049	0.016
3:46:19 PM	0.025	0.027	0.031	0.036	0.037	3:46:56 PM	0.031	0.034	0.037	0.043	0.044	0.007
3:47:19 PM	0.023	0.025	0.027	0.032	0.032	3:47:56 PM	0.025	0.027	0.029	0.033	0.033	0.001
3:48:19 PM	0.022	0.024	0.026	0.031	0.031	3:48:56 PM	0.023	0.024	0.026	0.029	0.03	-0.001
3:49:19 PM	0.03	0.033	0.037	0.047	0.047	3:49:56 PM	0.028	0.03	0.033	0.037	0.037	-0.01
3:50:19 PM	0.027	0.03	0.034	0.042	0.043	3:50:56 PM	0.031	0.033	0.036	0.042	0.042	-0.001
3:51:19 PM	0.026	0.029	0.031	0.037	0.038	3:51:56 PM	0.026	0.028	0.031	0.035	0.036	-0.002
3:52:19 PM	0.022	0.024	0.026	0.03	0.031	3:52:56 PM	0.021	0.022	0.023	0.026	0.026	-0.005
3:53:19 PM	0.02	0.022	0.024	0.027	0.027	3:53:56 PM	0.019	0.019	0.02	0.022	0.022	-0.005
3:54:19 PM	0.02	0.022	0.024	0.028	0.028	3:54:56 PM	0.018	0.019	0.02	0.021	0.021	-0.007
3:55:19 PM	0.019	0.02	0.022	0.025	0.026	3:55:56 PM	0.018	0.019	0.02	0.021	0.022	-0.004
3:56:19 PM	0.019	0.021	0.023	0.026	0.026	3:56:56 PM	0.02	0.021	0.023	0.026	0.026	0
3:57:19 PM	0.021	0.023	0.025	0.031	0.032	3:57:56 PM	0.017	0.017	0.018	0.02	0.02	-0.012
3:58:19 PM	0.021	0.023	0.026	0.03	0.031	3:58:56 PM	0.016	0.017	0.018	0.019	0.019	-0.012
3:59:19 PM	0.022	0.024	0.026	0.032	0.032	3:59:56 PM	0.016	0.017	0.018	0.019	0.019	-0.013
4:00:19 PM	0.021	0.022	0.025	0.029	0.029	4:00:56 PM	0.017	0.018	0.019	0.021	0.021	-0.008
4:01:19 PM	0.022	0.023	0.026	0.031	0.031	4:01:56 PM	0.017	0.018	0.019	0.021	0.022	-0.009
4:02:19 PM	0.04	0.043	0.048	0.061	0.061	4:02:56 PM	0.019	0.02	0.021	0.023	0.023	-0.038
4:03:19 PM	0.049	0.052	0.058	0.072	0.073	4:03:56 PM	0.028	0.029	0.031	0.033	0.033	-0.04
4:04:19 PM	0.074	0.078	0.086	0.111	0.111	4:04:56 PM	0.034	0.036	0.038	0.042	0.043	-0.068
4:05:19 PM	0.076	0.082	0.093	0.12	0.123	4:05:56 PM	0.042	0.044	0.048	0.054	0.055	-0.068
4:06:19 PM	0.084	0.092	0.105	0.136	0.137	4:06:56 PM	0.049	0.052	0.057	0.067	0.068	-0.069
4:07:19 PM	0.089	0.097	0.111	0.145	0.147	4:07:56 PM	0.067	0.071	0.078	0.088	0.089	-0.058
4:08:19 PM	0.076	0.082	0.093	0.12	0.122	4:08:56 PM	0.062	0.067	0.073	0.084	0.085	-0.037
4:09:19 PM	0.061	0.067	0.076	0.099	0.099	4:09:56 PM	0.051	0.054	0.058	0.065	0.066	-0.033
4:10:19 PM	0.055	0.06	0.068	0.088	0.09	4:10:56 PM	0.063	0.068	0.076	0.089	0.091	0.001
4:11:19 PM	0.16	0.181	0.219	0.314	0.321	4:11:56 PM	0.048	0.052	0.057	0.066	0.068	-0.253
4:12:19 PM	0.052	0.058	0.066	0.087	0.088	4:12:56 PM	0.046	0.049	0.055	0.064	0.065	-0.023
4:13:19 PM	0.043	0.048	0.055	0.07	0.071	4:13:56 PM	0.041	0.045	0.049	0.056	0.057	-0.014
4:14:19 PM	0.044	0.049	0.056	0.071	0.071	4:14:56 PM	0.044	0.048	0.053	0.061	0.063	-0.008
4:15:19 PM	0.047	0.053	0.062	0.08	0.081	4:15:56 PM	0.051	0.055	0.062	0.073	0.073	-0.008
4:16:19 PM	0.05	0.056	0.065	0.085	0.086	4:16:56 PM	0.044	0.048	0.053	0.062	0.063	-0.023
4:17:19 PM	0.049	0.054	0.062	0.078	0.079	4:17:56 PM	0.041	0.044	0.049	0.056	0.056	-0.023
4:18:19 PM	0.053	0.058	0.066	0.081	0.082	4:18:56 PM	0.044	0.047	0.051	0.057	0.058	-0.024
4:19:19 PM	0.048	0.054	0.061	0.076	0.077	4:19:56 PM	0.047	0.05	0.055	0.062	0.063	-0.014
4:20:19 PM	0.04	0.044	0.05	0.063	0.063	4:20:56 PM	0.039	0.041	0.045	0.051	0.052	-0.011
4:21:19 PM	0.049	0.054	0.062	0.076	0.077	4:21:56 PM	0.036	0.039	0.042	0.048	0.049	-0.028
4:22:19 PM	0.037	0.041	0.047	0.058	0.059							-0.059
4:23:19 PM	0.033	0.036	0.041	0.049	0.05							-0.05

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_006
Test Start Time	7:20:40 AM
Test Start Date	4/1/2015
Test Length [D:H:M]	0:02:16
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.06
Mass Minimum [mg/m3]	0.016
Mass Maximum [mg/m3]	0.19
Mass TWA [mg/m3]	0.017
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	136

Elapsed Time [s]	7:20:40 AM	Mass [mg/m3]	Alarms	Errors
60	7:21:40 AM	0.016		
120	7:22:40 AM	0.052		
180	7:23:40 AM	0.043		
240	7:24:40 AM	0.046		
300	7:25:40 AM	0.043		
360	7:26:40 AM	0.051		
420	7:27:40 AM	0.055		
480	7:28:40 AM	0.085		
540	7:29:40 AM	0.063		
600	7:30:40 AM	0.07		
660	7:31:40 AM	0.112		
720	7:32:40 AM	0.19		
780	7:33:40 AM	0.124		
840	7:34:40 AM	0.108		
900	7:35:40 AM	0.1		
960	7:36:40 AM	0.114		
1020	7:37:40 AM	0.139		
1080	7:38:40 AM	0.149		
1140	7:39:40 AM	0.129		
1200	7:40:40 AM	0.112		
1260	7:41:40 AM	0.108		
1320	7:42:40 AM	0.09		
1380	7:43:40 AM	0.059		
1440	7:44:40 AM	0.057		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_007
Test Start Time	7:20:06 AM
Test Start Date	4/1/2015
Test Length [D:H:M]	0:02:16
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.239
Mass Minimum [mg/m3]	0.128
Mass Maximum [mg/m3]	0.555
Mass TWA [mg/m3]	0.068
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	Flow Error
Number of Samples	136

Elapsed Time [s]	7:20:06 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	7:21:06 AM	0.171			0.155
120	7:22:06 AM	0.14			0.088
180	7:23:06 AM	0.221			0.178
240	7:24:06 AM	0.245			0.199
300	7:25:06 AM	0.317			0.274
360	7:26:06 AM	0.296			0.245
420	7:27:06 AM	0.3			0.245
480	7:28:06 AM	0.359			0.274
540	7:29:06 AM	0.272			0.209
600	7:30:06 AM	0.234			0.164
660	7:31:06 AM	0.23			0.118
720	7:32:06 AM	0.217			0.027
780	7:33:06 AM	0.426			0.302
840	7:34:06 AM	0.377			0.269
900	7:35:06 AM	0.296			0.196
960	7:36:06 AM	0.245			0.131
1020	7:37:06 AM	0.298			0.159
1080	7:38:06 AM	0.395			0.246
1140	7:39:06 AM	0.345			0.216
1200	7:40:06 AM	0.263			0.151
1260	7:41:06 AM	0.237			0.129
1320	7:42:06 AM	0.236			0.146
1380	7:43:06 AM	0.254			0.195
1440	7:44:06 AM	0.258			0.201

1500	7:45:40 AM	0.13		1500	7:45:06 AM	0.296	0.166
1560	7:46:40 AM	0.055		1560	7:46:06 AM	0.362	0.307
1620	7:47:40 AM	0.044		1620	7:47:06 AM	0.366	0.322
1680	7:48:40 AM	0.053		1680	7:48:06 AM	0.17	0.117
1740	7:49:40 AM	0.044		1740	7:49:06 AM	0.13	0.086
1800	7:50:40 AM	0.039		1800	7:50:06 AM	0.146	0.107
1860	7:51:40 AM	0.041		1860	7:51:06 AM	0.141	0.1
1920	7:52:40 AM	0.043		1920	7:52:06 AM	0.128	0.085
1980	7:53:40 AM	0.069		1980	7:53:06 AM	0.137	0.068
2040	7:54:40 AM	0.045		2040	7:54:06 AM	0.158	0.113
2100	7:55:40 AM	0.037		2100	7:55:06 AM	0.318	0.281
2160	7:56:40 AM	0.035		2160	7:56:06 AM	0.348	0.313
2220	7:57:40 AM	0.037		2220	7:57:06 AM	0.357	0.32
2280	7:58:40 AM	0.05		2280	7:58:06 AM	0.465	0.415
2340	7:59:40 AM	0.049		2340	7:59:06 AM	0.435	0.386
2400	8:00:40 AM	0.039		2400	8:00:06 AM	0.242	0.203
2460	8:01:40 AM	0.041		2460	8:01:06 AM	0.252	0.211
2520	8:02:40 AM	0.032		2520	8:02:06 AM	0.213	0.181
2580	8:03:40 AM	0.039		2580	8:03:06 AM	0.151	Flow Error 0.112
2640	8:04:40 AM	0.041		2640	8:04:06 AM	0.209	0.168
2700	8:05:40 AM	0.05		2700	8:05:06 AM	0.157	0.107
2760	8:06:40 AM	0.07		2760	8:06:06 AM	0.147	0.077
2820	8:07:40 AM	0.073		2820	8:07:06 AM	0.157	0.084
2880	8:08:40 AM	0.064		2880	8:08:06 AM	0.177	0.113
2940	8:09:40 AM	0.069		2940	8:09:06 AM	0.265	0.196
3000	8:10:40 AM	0.07		3000	8:10:06 AM	0.288	0.218
3060	8:11:40 AM	0.074		3060	8:11:06 AM	0.328	0.254
3120	8:12:40 AM	0.073		3120	8:12:06 AM	0.555	0.482
3180	8:13:40 AM	0.073		3180	8:13:06 AM	0.497	0.424
3240	8:14:40 AM	0.074		3240	8:14:06 AM	0.334	0.26
3300	8:15:40 AM	0.077		3300	8:15:06 AM	0.305	0.228
3360	8:16:40 AM	0.085		3360	8:16:06 AM	0.281	0.196
3420	8:17:40 AM	0.087		3420	8:17:06 AM	0.2	0.113
3480	8:18:40 AM	0.086		3480	8:18:06 AM	0.192	0.106
3540	8:19:40 AM	0.089		3540	8:19:06 AM	0.209	0.12
3600	8:20:40 AM	0.091		3600	8:20:06 AM	0.21	0.119
3660	8:21:40 AM	0.095		3660	8:21:06 AM	0.214	0.119
3720	8:22:40 AM	0.099		3720	8:22:06 AM	0.211	0.112
3780	8:23:40 AM	0.104		3780	8:23:06 AM	0.23	0.126
3840	8:24:40 AM	0.112		3840	8:24:06 AM	0.303	0.191
3900	8:25:40 AM	0.117		3900	8:25:06 AM	0.327	0.21
3960	8:26:40 AM	0.122		3960	8:26:06 AM	0.41	0.288
4020	8:27:40 AM	0.12		4020	8:27:06 AM	0.455	0.335
4080	8:28:40 AM	0.091		4080	8:28:06 AM	0.386	0.295
4140	8:29:40 AM	0.053		4140	8:29:06 AM	0.339	0.286
4200	8:30:40 AM	0.051		4200	8:30:06 AM	0.332	Flow Error 0.281

4260	8:31:40 AM	0.05	4260	8:31:06 AM	0.29	0.24
4320	8:32:40 AM	0.054	4320	8:32:06 AM	0.234	0.18
4380	8:33:40 AM	0.049	4380	8:33:06 AM	0.19	0.141
4440	8:34:40 AM	0.057	4440	8:34:06 AM	0.178	0.121
4500	8:35:40 AM	0.055	4500	8:35:06 AM	0.197	0.142
4560	8:36:40 AM	0.046	4560	8:36:06 AM	0.17	0.124
4620	8:37:40 AM	0.046	4620	8:37:06 AM	0.17	0.124
4680	8:38:40 AM	0.045	4680	8:38:06 AM	0.171	0.126
4740	8:39:40 AM	0.043	4740	8:39:06 AM	0.174	0.131
4800	8:40:40 AM	0.038	4800	8:40:06 AM	0.188	0.15
4860	8:41:40 AM	0.05	4860	8:41:06 AM	0.215	0.165
4920	8:42:40 AM	0.057	4920	8:42:06 AM	0.261	0.204
4980	8:43:40 AM	0.036	4980	8:43:06 AM	0.327	0.291
5040	8:44:40 AM	0.042	5040	8:44:06 AM	0.337	0.295
5100	8:45:40 AM	0.046	5100	8:45:06 AM	0.227	0.181
5160	8:46:40 AM	0.044	5160	8:46:06 AM	0.224	0.18
5220	8:47:40 AM	0.05	5220	8:47:06 AM	0.208	0.158
5280	8:48:40 AM	0.044	5280	8:48:06 AM	0.186	0.142
5340	8:49:40 AM	0.039	5340	8:49:06 AM	0.176	0.137
5400	8:50:40 AM	0.042	5400	8:50:06 AM	0.154	0.112
5460	8:51:40 AM	0.04	5460	8:51:06 AM	0.15	0.11
5520	8:52:40 AM	0.038	5520	8:52:06 AM	0.153	0.115
5580	8:53:40 AM	0.036	5580	8:53:06 AM	0.156	0.12
5640	8:54:40 AM	0.04	5640	8:54:06 AM	0.179	0.139
5700	8:55:40 AM	0.034	5700	8:55:06 AM	0.201	0.167
5760	8:56:40 AM	0.035	5760	8:56:06 AM	0.218	0.183
5820	8:57:40 AM	0.036	5820	8:57:06 AM	0.261	0.225
5880	8:58:40 AM	0.037	5880	8:58:06 AM	0.303	0.266
5940	8:59:40 AM	0.04	5940	8:59:06 AM	0.281	0.241
6000	9:00:40 AM	0.038	6000	9:00:06 AM	0.201	0.163
6060	9:01:40 AM	0.037	6060	9:01:06 AM	0.2	0.163
6120	9:02:40 AM	0.038	6120	9:02:06 AM	0.193	0.155
6180	9:03:40 AM	0.035	6180	9:03:06 AM	0.146	0.111
6240	9:04:40 AM	0.03	6240	9:04:06 AM	0.167	0.137
6300	9:05:40 AM	0.032	6300	9:05:06 AM	0.157	0.125
6360	9:06:40 AM	0.051	6360	9:06:06 AM	0.132	0.081
6420	9:07:40 AM	0.06	6420	9:07:06 AM	0.129	0.069
6480	9:08:40 AM	0.049	6480	9:08:06 AM	0.141	0.092
6540	9:09:40 AM	0.049	6540	9:09:06 AM	0.144	0.095
6600	9:10:40 AM	0.041	6600	9:10:06 AM	0.141	0.1
6660	9:11:40 AM	0.039	6660	9:11:06 AM	0.167	0.128
6720	9:12:40 AM	0.046	6720	9:12:06 AM	0.196	0.15
6780	9:13:40 AM	0.038	6780	9:13:06 AM	0.208	0.17
6840	9:14:40 AM	0.038	6840	9:14:06 AM	0.241	0.203
6900	9:15:40 AM	0.032	6900	9:15:06 AM	0.271	0.239
6960	9:16:40 AM	0.04	6960	9:16:06 AM	0.237	0.197

7020	9:17:40 AM	0.045		7020	9:17:06 AM	0.225	0.18
7080	9:18:40 AM	0.03		7080	9:18:06 AM	0.28	0.25
7140	9:19:40 AM	0.039		7140	9:19:06 AM	0.201	0.162
7200	9:20:40 AM	0.04		7200	9:20:06 AM	0.201	0.161
7260	9:21:40 AM	0.032		7260	9:21:06 AM	0.193	0.161
7320	9:22:40 AM	0.033		7320	9:22:06 AM	0.159	0.126
7380	9:23:40 AM	0.037		7380	9:23:06 AM	0.175	0.138
7440	9:24:40 AM	0.043		7440	9:24:06 AM	0.183	0.14
7500	9:25:40 AM	0.074		7500	9:25:06 AM	0.195	0.121
7560	9:26:40 AM	0.101		7560	9:26:06 AM	0.168	0.067
7620	9:27:40 AM	0.067		7620	9:27:06 AM	0.188	0.121
7680	9:28:40 AM	0.045		7680	9:28:06 AM	0.188	0.143
7740	9:29:40 AM	0.047		7740	9:29:06 AM	0.189	0.142
7800	9:30:40 AM	0.045		7800	9:30:06 AM	0.214	0.169
7860	9:31:40 AM	0.065		7860	9:31:06 AM	0.194	0.129
7920	9:32:40 AM	0.041		7920	9:32:06 AM	0.148	0.107
7980	9:33:40 AM	0.037		7980	9:33:06 AM	0.14	0.103
8040	9:34:40 AM	0.044		8040	9:34:06 AM	0.175	0.131
8100	9:35:40 AM	0.042		8100	9:35:06 AM	0.278	0.236
8160	9:36:40 AM	0.03		8160	9:36:06 AM	0.384	0.354

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_004
Test Start Time	9:21:30 AM
Test Start Date	3/31/2015
Test Length [D:H:M]	0:01:42
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.056
Mass Minimum [mg/m3]	0.019
Mass Maximum [mg/m3]	0.189
Mass TWA [mg/m3]	0.012
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	102

Elapsed Time [s]	9:21:30 AM	Mass [mg/m3]	Alarms	Errors
60	9:22:30 AM	0.045		
120	9:23:30 AM	0.152		
180	9:24:30 AM	0.114		
240	9:25:30 AM	0.058		
300	9:26:30 AM	0.114		
360	9:27:30 AM	0.147		
420	9:28:30 AM	0.121		
480	9:29:30 AM	0.17		
540	9:30:30 AM	0.189		
600	9:31:30 AM	0.134		
660	9:32:30 AM	0.118		
720	9:33:30 AM	0.121		
780	9:34:30 AM	0.086		
840	9:35:30 AM	0.075		
900	9:36:30 AM	0.089		
960	9:37:30 AM	0.092		
1020	9:38:30 AM	0.096		
1080	9:39:30 AM	0.083		
1140	9:40:30 AM	0.067		
1200	9:41:30 AM	0.062		
1260	9:42:30 AM	0.03		
1320	9:43:30 AM	0.051		
1380	9:44:30 AM	0.048		
1440	9:45:30 AM	0.03		
1500	9:46:30 AM	0.04		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_005
Test Start Time	9:20:32 AM
Test Start Date	3/31/2015
Test Length [D:H:M]	0:01:42
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.164
Mass Minimum [mg/m3]	0.104
Mass Maximum [mg/m3]	0.461
Mass TWA [mg/m3]	0.035
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	102

Elapsed Time [s]	9:20:32 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	9:21:32 AM	0.183			
120	9:22:32 AM	0.205			0.16
180	9:23:32 AM	0.165			0.013
240	9:24:32 AM	0.146			0.032
300	9:25:32 AM	0.147			0.089
360	9:26:32 AM	0.141			0.027
420	9:27:32 AM	0.139			-0.008
480	9:28:32 AM	0.155			0.034
540	9:29:32 AM	0.157			-0.013
600	9:30:32 AM	0.166			-0.023
660	9:31:32 AM	0.175			0.041
720	9:32:32 AM	0.153			0.035
780	9:33:32 AM	0.138			0.017
840	9:34:32 AM	0.131			0.045
900	9:35:32 AM	0.125			0.05
960	9:36:32 AM	0.128			0.039
1020	9:37:32 AM	0.171			0.079
1080	9:38:32 AM	0.212			0.116
1140	9:39:32 AM	0.249			0.166
1200	9:40:32 AM	0.218			0.151
1260	9:41:32 AM	0.183			0.121
1320	9:42:32 AM	0.165			0.135
1380	9:43:32 AM	0.123			0.072
1440	9:44:32 AM	0.113			0.065
1500	9:45:32 AM	0.121			0.091
1560	9:46:32 AM	0.115			0.075

1560	9:47:30 AM	0.042	1620	9:47:32 AM	0.111	0.069
1620	9:48:30 AM	0.025	1680	9:48:32 AM	0.118	0.093
1680	9:49:30 AM	0.051	1740	9:49:32 AM	0.109	0.058
1740	9:50:30 AM	0.047	1800	9:50:32 AM	0.104	0.057
1800	9:51:30 AM	0.062	1860	9:51:32 AM	0.108	0.046
1860	9:52:30 AM	0.026	1920	9:52:32 AM	0.116	0.09
1920	9:53:30 AM	0.027	1980	9:53:32 AM	0.133	0.106
1980	9:54:30 AM	0.027	2040	9:54:32 AM	0.127	0.1
2040	9:55:30 AM	0.031	2100	9:55:32 AM	0.119	0.088
2100	9:56:30 AM	0.078	2160	9:56:32 AM	0.124	0.046
2160	9:57:30 AM	0.076	2220	9:57:32 AM	0.123	0.047
2220	9:58:30 AM	0.058	2280	9:58:32 AM	0.125	0.067
2280	9:59:30 AM	0.043	2340	9:59:32 AM	0.143	0.1
2340	10:00:30 AM	0.042	2400	10:00:32 AM	0.192	0.15
2400	10:01:30 AM	0.036	2460	10:01:32 AM	0.209	0.173
2460	10:02:30 AM	0.042	2520	10:02:32 AM	0.461	0.419
2520	10:03:30 AM	0.066	2580	10:03:32 AM	0.337	0.271
2580	10:04:30 AM	0.086	2640	10:04:32 AM	0.26	0.174
2640	10:05:30 AM	0.054	2700	10:05:32 AM	0.322	0.268
2700	10:06:30 AM	0.051	2760	10:06:32 AM	0.41	0.359
2760	10:07:30 AM	0.054	2820	10:07:32 AM	0.348	0.294
2820	10:08:30 AM	0.055	2880	10:08:32 AM	0.256	0.201
2880	10:09:30 AM	0.069	2940	10:09:32 AM	0.259	0.19
2940	10:10:30 AM	0.093	3000	10:10:32 AM	0.219	0.126
3000	10:11:30 AM	0.072	3060	10:11:32 AM	0.202	0.13
3060	10:12:30 AM	0.061	3120	10:12:32 AM	0.214	0.153
3120	10:13:30 AM	0.061	3180	10:13:32 AM	0.208	0.147
3180	10:14:30 AM	0.069	3240	10:14:32 AM	0.196	0.127
3240	10:15:30 AM	0.077	3300	10:15:32 AM	0.185	0.108
3300	10:16:30 AM	0.067	3360	10:16:32 AM	0.182	0.115
3360	10:17:30 AM	0.051	3420	10:17:32 AM	0.178	0.127
3420	10:18:30 AM	0.053	3480	10:18:32 AM	0.177	0.124
3480	10:19:30 AM	0.063	3540	10:19:32 AM	0.178	0.115
3540	10:20:30 AM	0.064	3600	10:20:32 AM	0.175	0.111
3600	10:21:30 AM	0.058	3660	10:21:32 AM	0.165	0.107
3660	10:22:30 AM	0.061	3720	10:22:32 AM	0.162	0.101
3720	10:23:30 AM	0.027	3780	10:23:32 AM	0.163	0.136
3780	10:24:30 AM	0.022	3840	10:24:32 AM	0.134	0.112
3840	10:25:30 AM	0.034	3900	10:25:32 AM	0.109	0.075
3900	10:26:30 AM	0.022	3960	10:26:32 AM	0.115	0.093
3960	10:27:30 AM	0.019	4020	10:27:32 AM	0.114	0.095
4020	10:28:30 AM	0.021	4080	10:28:32 AM	0.108	0.087
4080	10:29:30 AM	0.02	4140	10:29:32 AM	0.107	0.087
4140	10:30:30 AM	0.02	4200	10:30:32 AM	0.113	0.093
4200	10:31:30 AM	0.039	4260	10:31:32 AM	0.108	0.069
4260	10:32:30 AM	0.025	4320	10:32:32 AM	0.114	0.089
4320	10:33:30 AM	0.032	4380	10:33:32 AM	0.128	0.096
4380	10:34:30 AM	0.031	4440	10:34:32 AM	0.132	0.101

4440	10:35:30 AM	0.032	4500	10:35:32 AM	0.126	0.094
4500	10:36:30 AM	0.033	4560	10:36:32 AM	0.125	0.092
4560	10:37:30 AM	0.034	4620	10:37:32 AM	0.125	0.091
4620	10:38:30 AM	0.034	4680	10:38:32 AM	0.131	0.097
4680	10:39:30 AM	0.034	4740	10:39:32 AM	0.13	0.096
4740	10:40:30 AM	0.034	4800	10:40:32 AM	0.131	0.097
4800	10:41:30 AM	0.037	4860	10:41:32 AM	0.129	0.092
4860	10:42:30 AM	0.036	4920	10:42:32 AM	0.129	0.093
4920	10:43:30 AM	0.035	4980	10:43:32 AM	0.129	0.094
4980	10:44:30 AM	0.035	5040	10:44:32 AM	0.135	0.1
5040	10:45:30 AM	0.034	5100	10:45:32 AM	0.136	0.102
5100	10:46:30 AM	0.031	5160	10:46:32 AM	0.137	0.106
5160	10:47:30 AM	0.074	5220	10:47:32 AM	0.153	0.079
5220	10:48:30 AM	0.061	5280	10:48:32 AM	0.154	0.093
5280	10:49:30 AM	0.042	5340	10:49:32 AM	0.172	0.13
5340	10:50:30 AM	0.028	5400	10:50:32 AM	0.174	0.146
5400	10:51:30 AM	0.028	5460	10:51:32 AM	0.154	0.126
5460	10:52:30 AM	0.032	5520	10:52:32 AM	0.148	0.116
5520	10:53:30 AM	0.063	5580	10:53:32 AM	0.158	0.095
5580	10:54:30 AM	0.055	5640	10:54:32 AM	0.178	0.123
5640	10:55:30 AM	0.023	5700	10:55:32 AM	0.208	0.185
5700	10:56:30 AM	0.032	5760	10:56:32 AM	0.172	0.14
5760	10:57:30 AM	0.034	5820	10:57:32 AM	0.147	0.113
5820	10:58:30 AM	0.031	5880	10:58:32 AM	0.126	0.095
5880	10:59:30 AM	0.024	5940	10:59:32 AM	0.126	0.102
5940	11:00:30 AM	0.023	6000	11:00:32 AM	0.16	0.137
6000	11:01:30 AM	0.041	6060	11:01:32 AM	0.137	0.096
6060	11:02:30 AM	0.05	6120	11:02:32 AM	0.137	0.087
6120	11:03:30 AM	0.031				

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_007
Test Start Time	12:25:14 PM
Test Start Date	4/1/2015
Test Length [D:H:M]	0:03:07
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.133
Mass Minimum [mg/m3]	0.035
Mass Maximum [mg/m3]	0.406
Mass TWA [mg/m3]	0.052
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	187

Elapsed Time [s]	12:25:14 PM	Mass [mg/m3	Alarms	Errors
60	12:26:14 PM	0.17		
120	12:27:14 PM	0.172		
180	12:28:14 PM	0.163		
240	12:29:14 PM	0.139		
300	12:30:14 PM	0.15		
360	12:31:14 PM	0.147		
420	12:32:14 PM	0.101		
480	12:33:14 PM	0.072		
540	12:34:14 PM	0.073		
600	12:35:14 PM	0.071		
660	12:36:14 PM	0.058		
720	12:37:14 PM	0.055		
780	12:38:14 PM	0.063		
840	12:39:14 PM	0.073		
900	12:40:14 PM	0.083		
960	12:41:14 PM	0.094		
1020	12:42:14 PM	0.095		
1080	12:43:14 PM	0.1		
1140	12:44:14 PM	0.1		
1200	12:45:14 PM	0.09		
1260	12:46:14 PM	0.091		
1320	12:47:14 PM	0.092		
1380	12:48:14 PM	0.095		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_008
Test Start Time	12:25:53 PM
Test Start Date	4/1/2015
Test Length [D:H:M]	0:03:11
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.206
Mass Minimum [mg/m3]	0.112
Mass Maximum [mg/m3]	0.316
Mass TWA [mg/m3]	0.082
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	191

Elapsed Time [s]	12:25:53 PM	Mass [mg/m3	Alarms	Errors	**Difference**
60	12:26:53 PM	0.221			0.051
120	12:27:53 PM	0.205			0.033
180	12:28:53 PM	0.222			0.059
240	12:29:53 PM	0.271			0.132
300	12:30:53 PM	0.263			0.113
360	12:31:53 PM	0.244			0.097
420	12:32:53 PM	0.235			0.134
480	12:33:53 PM	0.244			0.172
540	12:34:53 PM	0.229			0.156
600	12:35:53 PM	0.19			0.119
660	12:36:53 PM	0.153			0.095
720	12:37:53 PM	0.137			0.082
780	12:38:53 PM	0.134			0.071
840	12:39:53 PM	0.137			0.064
900	12:40:53 PM	0.143			0.06
960	12:41:53 PM	0.146			0.052
1020	12:42:53 PM	0.148			0.053
1080	12:43:53 PM	0.157			0.057
1140	12:44:53 PM	0.159			0.059
1200	12:45:53 PM	0.16			0.07
1260	12:46:53 PM	0.162			0.071
1320	12:47:53 PM	0.168			0.076
1380	12:48:53 PM	0.171			0.076

1440	12:49:14 PM	0.089	1440	12:49:53 PM	0.164	0.075
1500	12:50:14 PM	0.084	1500	12:50:53 PM	0.162	0.078
1560	12:51:14 PM	0.085	1560	12:51:53 PM	0.167	0.082
1620	12:52:14 PM	0.081	1620	12:52:53 PM	0.16	0.079
1680	12:53:14 PM	0.082	1680	12:53:53 PM	0.161	0.079
1740	12:54:14 PM	0.083	1740	12:54:53 PM	0.161	0.078
1800	12:55:14 PM	0.082	1800	12:55:53 PM	0.159	0.077
1860	12:56:14 PM	0.084	1860	12:56:53 PM	0.161	0.077
1920	12:57:14 PM	0.076	1920	12:57:53 PM	0.157	0.081
1980	12:58:14 PM	0.069	1980	12:58:53 PM	0.158	0.089
2040	12:59:14 PM	0.059	2040	12:59:53 PM	0.157	0.098
2100	1:00:14 PM	0.061	2100	1:00:53 PM	0.158	0.097
2160	1:01:14 PM	0.071	2160	1:01:53 PM	0.155	0.084
2220	1:02:14 PM	0.07	2220	1:02:53 PM	0.145	0.075
2280	1:03:14 PM	0.069	2280	1:03:53 PM	0.142	0.073
2340	1:04:14 PM	0.074	2340	1:04:53 PM	0.136	0.062
2400	1:05:14 PM	0.08	2400	1:05:53 PM	0.141	0.061
2460	1:06:14 PM	0.078	2460	1:06:53 PM	0.139	0.061
2520	1:07:14 PM	0.079	2520	1:07:53 PM	0.142	0.063
2580	1:08:14 PM	0.085	2580	1:08:53 PM	0.141	0.056
2640	1:09:14 PM	0.085	2640	1:09:53 PM	0.143	0.058
2700	1:10:14 PM	0.082	2700	1:10:53 PM	0.146	0.064
2760	1:11:14 PM	0.085	2760	1:11:53 PM	0.151	0.066
2820	1:12:14 PM	0.087	2820	1:12:53 PM	0.158	0.071
2880	1:13:14 PM	0.087	2880	1:13:53 PM	0.165	0.078
2940	1:14:14 PM	0.085	2940	1:14:53 PM	0.174	0.089
3000	1:15:14 PM	0.08	3000	1:15:53 PM	0.169	0.089
3060	1:16:14 PM	0.079	3060	1:16:53 PM	0.175	0.096
3120	1:17:14 PM	0.079	3120	1:17:53 PM	0.172	0.093
3180	1:18:14 PM	0.076	3180	1:18:53 PM	0.18	0.104
3240	1:19:14 PM	0.077	3240	1:19:53 PM	0.184	0.107
3300	1:20:14 PM	0.075	3300	1:20:53 PM	0.204	0.129
3360	1:21:14 PM	0.077	3360	1:21:53 PM	0.192	0.115
3420	1:22:14 PM	0.073	3420	1:22:53 PM	0.187	0.114
3480	1:23:14 PM	0.081	3480	1:23:53 PM	0.191	0.11
3540	1:24:14 PM	0.079	3540	1:24:53 PM	0.206	0.127
3600	1:25:14 PM	0.083	3600	1:25:53 PM	0.212	0.129
3660	1:26:14 PM	0.082	3660	1:26:53 PM	0.214	0.132
3720	1:27:14 PM	0.086	3720	1:27:53 PM	0.236	0.15
3780	1:28:14 PM	0.091	3780	1:28:53 PM	0.238	0.147
3840	1:29:14 PM	0.093	3840	1:29:53 PM	0.227	0.134
3900	1:30:14 PM	0.094	3900	1:30:53 PM	0.238	0.144
3960	1:31:14 PM	0.1	3960	1:31:53 PM	0.239	0.139
4020	1:32:14 PM	0.113	4020	1:32:53 PM	0.241	0.128
4080	1:33:14 PM	0.121	4080	1:33:53 PM	0.234	0.113
4140	1:34:14 PM	0.107	4140	1:34:53 PM	0.235	0.128

4200	1:35:14 PM	0.119	4200	1:35:53 PM	0.235	0.116
4260	1:36:14 PM	0.11	4260	1:36:53 PM	0.222	0.112
4320	1:37:14 PM	0.105	4320	1:37:53 PM	0.222	0.117
4380	1:38:14 PM	0.101	4380	1:38:53 PM	0.223	0.122
4440	1:39:14 PM	0.096	4440	1:39:53 PM	0.221	0.125
4500	1:40:14 PM	0.102	4500	1:40:53 PM	0.216	0.114
4560	1:41:14 PM	0.093	4560	1:41:53 PM	0.224	0.131
4620	1:42:14 PM	0.093	4620	1:42:53 PM	0.225	0.132
4680	1:43:14 PM	0.094	4680	1:43:53 PM	0.229	0.135
4740	1:44:14 PM	0.096	4740	1:44:53 PM	0.23	0.134
4800	1:45:14 PM	0.1	4800	1:45:53 PM	0.235	0.135
4860	1:46:14 PM	0.108	4860	1:46:53 PM	0.238	0.13
4920	1:47:14 PM	0.098	4920	1:47:53 PM	0.253	0.155
4980	1:48:14 PM	0.095	4980	1:48:53 PM	0.252	0.157
5040	1:49:14 PM	0.096	5040	1:49:53 PM	0.268	0.172
5100	1:50:14 PM	0.106	5100	1:50:53 PM	0.282	0.176
5160	1:51:14 PM	0.116	5160	1:51:53 PM	0.288	0.172
5220	1:52:14 PM	0.132	5220	1:52:53 PM	0.29	0.158
5280	1:53:14 PM	0.13	5280	1:53:53 PM	0.315	0.185
5340	1:54:14 PM	0.135	5340	1:54:53 PM	0.302	0.167
5400	1:55:14 PM	0.141	5400	1:55:53 PM	0.288	0.147
5460	1:56:14 PM	0.139	5460	1:56:53 PM	0.282	0.143
5520	1:57:14 PM	0.174	5520	1:57:53 PM	0.278	0.104
5580	1:58:14 PM	0.181	5580	1:58:53 PM	0.277	0.096
5640	1:59:14 PM	0.186	5640	1:59:53 PM	0.28	0.094
5700	2:00:14 PM	0.188	5700	2:00:53 PM	0.277	0.089
5760	2:01:14 PM	0.19	5760	2:01:53 PM	0.277	0.087
5820	2:02:14 PM	0.179	5820	2:02:53 PM	0.276	0.097
5880	2:03:14 PM	0.171	5880	2:03:53 PM	0.276	0.105
5940	2:04:14 PM	0.16	5940	2:04:53 PM	0.28	0.12
6000	2:05:14 PM	0.17	6000	2:05:53 PM	0.278	0.108
6060	2:06:14 PM	0.166	6060	2:06:53 PM	0.272	0.106
6120	2:07:14 PM	0.171	6120	2:07:53 PM	0.27	0.099
6180	2:08:14 PM	0.18	6180	2:08:53 PM	0.27	0.09
6240	2:09:14 PM	0.18	6240	2:09:53 PM	0.276	0.096
6300	2:10:14 PM	0.184	6300	2:10:53 PM	0.285	0.101
6360	2:11:14 PM	0.19	6360	2:11:53 PM	0.295	0.105
6420	2:12:14 PM	0.196	6420	2:12:53 PM	0.299	0.103
6480	2:13:14 PM	0.184	6480	2:13:53 PM	0.299	0.115
6540	2:14:14 PM	0.168	6540	2:14:53 PM	0.309	0.141
6600	2:15:14 PM	0.164	6600	2:15:53 PM	0.296	0.132
6660	2:16:14 PM	0.177	6660	2:16:53 PM	0.3	0.123
6720	2:17:14 PM	0.17	6720	2:17:53 PM	0.306	0.136
6780	2:18:14 PM	0.168	6780	2:18:53 PM	0.294	0.126
6840	2:19:14 PM	0.175	6840	2:19:53 PM	0.294	0.119
6900	2:20:14 PM	0.167	6900	2:20:53 PM	0.29	0.123

6960	2:21:14 PM	0.166	6960	2:21:53 PM	0.305	0.139
7020	2:22:14 PM	0.18	7020	2:22:53 PM	0.316	0.136
7080	2:23:14 PM	0.183	7080	2:23:53 PM	0.307	0.124
7140	2:24:14 PM	0.189	7140	2:24:53 PM	0.287	0.098
7200	2:25:14 PM	0.19	7200	2:25:53 PM	0.277	0.087
7260	2:26:14 PM	0.184	7260	2:26:53 PM	0.278	0.094
7320	2:27:14 PM	0.328	7320	2:27:53 PM	0.276	-0.052
7380	2:28:14 PM	0.377	7380	2:28:53 PM	0.279	-0.098
7440	2:29:14 PM	0.331	7440	2:29:53 PM	0.28	-0.051
7500	2:30:14 PM	0.33	7500	2:30:53 PM	0.276	-0.054
7560	2:31:14 PM	0.254	7560	2:31:53 PM	0.269	0.015
7620	2:32:14 PM	0.228	7620	2:32:53 PM	0.275	0.047
7680	2:33:14 PM	0.232	7680	2:33:53 PM	0.292	0.06
7740	2:34:14 PM	0.267	7740	2:34:53 PM	0.291	0.024
7800	2:35:14 PM	0.312	7800	2:35:53 PM	0.279	-0.033
7860	2:36:14 PM	0.336	7860	2:36:53 PM	0.27	-0.066
7920	2:37:14 PM	0.331	7920	2:37:53 PM	0.268	-0.063
7980	2:38:14 PM	0.373	7980	2:38:53 PM	0.266	-0.107
8040	2:39:14 PM	0.406	8040	2:39:53 PM	0.271	-0.135
8100	2:40:14 PM	0.334	8100	2:40:53 PM	0.276	-0.058
8160	2:41:14 PM	0.299	8160	2:41:53 PM	0.273	-0.026
8220	2:42:14 PM	0.323	8220	2:42:53 PM	0.264	-0.059
8280	2:43:14 PM	0.3	8280	2:43:53 PM	0.268	-0.032
8340	2:44:14 PM	0.3	8340	2:44:53 PM	0.263	-0.037
8400	2:45:14 PM	0.304	8400	2:45:53 PM	0.26	-0.044
8460	2:46:14 PM	0.292	8460	2:46:53 PM	0.262	-0.03
8520	2:47:14 PM	0.284	8520	2:47:53 PM	0.271	-0.013
8580	2:48:14 PM	0.276	8580	2:48:53 PM	0.286	0.01
8640	2:49:14 PM	0.252	8640	2:49:53 PM	0.284	0.032
8700	2:50:14 PM	0.266	8700	2:50:53 PM	0.286	0.02
8760	2:51:14 PM	0.302	8760	2:51:53 PM	0.27	-0.032
8820	2:52:14 PM	0.279	8820	2:52:53 PM	0.247	-0.032
8880	2:53:14 PM	0.228	8880	2:53:53 PM	0.213	-0.015
8940	2:54:14 PM	0.106	8940	2:54:53 PM	0.189	0.083
9000	2:55:14 PM	0.116	9000	2:55:53 PM	0.172	0.056
9060	2:56:14 PM	0.181	9060	2:56:53 PM	0.148	-0.033
9120	2:57:14 PM	0.112	9120	2:57:53 PM	0.136	0.024
9180	2:58:14 PM	0.106	9180	2:58:53 PM	0.134	0.028
9240	2:59:14 PM	0.062	9240	2:59:53 PM	0.126	0.064
9300	3:00:14 PM	0.053	9300	3:00:53 PM	0.119	0.066
9360	3:01:14 PM	0.057	9360	3:01:53 PM	0.121	0.064
9420	3:02:14 PM	0.07	9420	3:02:53 PM	0.119	0.049
9480	3:03:14 PM	0.093	9480	3:03:53 PM	0.117	0.024
9540	3:04:14 PM	0.195	9540	3:04:53 PM	0.117	-0.078
9600	3:05:14 PM	0.154	9600	3:05:53 PM	0.123	-0.031
9660	3:06:14 PM	0.115	9660	3:06:53 PM	0.127	0.012

9720	3:07:14 PM	0.067	9720	3:07:53 PM	0.125	0.058
9780	3:08:14 PM	0.067	9780	3:08:53 PM	0.124	0.057
9840	3:09:14 PM	0.083	9840	3:09:53 PM	0.121	0.038
9900	3:10:14 PM	0.074	9900	3:10:53 PM	0.118	0.044
9960	3:11:14 PM	0.075	9960	3:11:53 PM	0.121	0.046
10020	3:12:14 PM	0.058	10020	3:12:53 PM	0.125	0.067
10080	3:13:14 PM	0.049	10080	3:13:53 PM	0.123	0.074
10140	3:14:14 PM	0.043	10140	3:14:53 PM	0.122	0.079
10200	3:15:14 PM	0.041	10200	3:15:53 PM	0.119	0.078
10260	3:16:14 PM	0.07	10260	3:16:53 PM	0.116	0.046
10320	3:17:14 PM	0.059	10320	3:17:53 PM	0.114	0.055
10380	3:18:14 PM	0.056	10380	3:18:53 PM	0.113	0.057
10440	3:19:14 PM	0.06	10440	3:19:53 PM	0.113	0.053
10500	3:20:14 PM	0.051	10500	3:20:53 PM	0.112	0.061
10560	3:21:14 PM	0.041	10560	3:21:53 PM	0.115	0.074
10620	3:22:14 PM	0.036	10620	3:22:53 PM	0.119	0.083
10680	3:23:14 PM	0.035	10680	3:23:53 PM	0.124	0.089
10740	3:24:14 PM	0.037	10740	3:24:53 PM	0.117	0.08
10800	3:25:14 PM	0.039	10800	3:25:53 PM	0.115	0.076
10860	3:26:14 PM	0.046	10860	3:26:53 PM	0.115	0.069
10920	3:27:14 PM	0.045	10920	3:27:53 PM	0.118	0.073
10980	3:28:14 PM	0.036	10980	3:28:53 PM	0.12	0.084
11040	3:29:14 PM	0.037	11040	3:29:53 PM	0.117	0.08
11100	3:30:14 PM	0.04	11100	3:30:53 PM	0.115	0.075
11160	3:31:14 PM	0.042	11160	3:31:53 PM	0.118	0.076
11220	3:32:14 PM	0.051	11220	3:32:53 PM	0.121	0.07

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_005
Test Start Time	11:20:45 AM
Test Start Date	3/31/2015
Test Length [D:H:M]	0:04:20
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.152
Mass Minimum [mg/m3]	0.047
Mass Maximum [mg/m3]	0.401
Mass TWA [mg/m3]	0.083
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	260

Elapsed Time [s]	11:20:45 AM	Mass [mg/m3	Alarms	Errors
60	11:21:45 AM	0.082		
120	11:22:45 AM	0.098		
180	11:23:45 AM	0.093		
240	11:24:45 AM	0.093		
300	11:25:45 AM	0.104		
360	11:26:45 AM	0.102		
420	11:27:45 AM	0.101		
480	11:28:45 AM	0.11		
540	11:29:45 AM	0.088		
600	11:30:45 AM	0.092		
660	11:31:45 AM	0.103		
720	11:32:45 AM	0.131		
780	11:33:45 AM	0.179		
840	11:34:45 AM	0.169		
900	11:35:45 AM	0.171		
960	11:36:45 AM	0.185		
1020	11:37:45 AM	0.167		
1080	11:38:45 AM	0.17		
1140	11:39:45 AM	0.182		
1200	11:40:45 AM	0.18		
1260	11:41:45 AM	0.171		
1320	11:42:45 AM	0.155		
1380	11:43:45 AM	0.156		
1440	11:44:45 AM	0.178		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_006
Test Start Time	11:20:27 AM
Test Start Date	3/31/2015
Test Length [D:H:M]	0:04:14
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.257
Mass Minimum [mg/m3]	0.168
Mass Maximum [mg/m3]	0.372
Mass TWA [mg/m3]	0.136
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	254

Elapsed Time [s]	11:20:27 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	11:21:27 AM	0.173			0.091
120	11:22:27 AM	0.176			0.078
180	11:23:27 AM	0.18			0.087
240	11:24:27 AM	0.194			0.101
300	11:25:27 AM	0.212			0.108
360	11:26:27 AM	0.201			0.099
420	11:27:27 AM	0.197			0.096
480	11:28:27 AM	0.19			0.08
540	11:29:27 AM	0.202			0.114
600	11:30:27 AM	0.19			0.098
660	11:31:27 AM	0.179			0.076
720	11:32:27 AM	0.188			0.057
780	11:33:27 AM	0.196			0.017
840	11:34:27 AM	0.198			0.029
900	11:35:27 AM	0.198			0.027
960	11:36:27 AM	0.191			0.006
1020	11:37:27 AM	0.207			0.04
1080	11:38:27 AM	0.204			0.034
1140	11:39:27 AM	0.202			0.02
1200	11:40:27 AM	0.218			0.038
1260	11:41:27 AM	0.232			0.061
1320	11:42:27 AM	0.265			0.11
1380	11:43:27 AM	0.281			0.125
1440	11:44:27 AM	0.253			0.075

1500	11:45:45 AM	0.176	1500	11:45:27 AM	0.249	0.073
1560	11:46:45 AM	0.16	1560	11:46:27 AM	0.315	0.155
1620	11:47:45 AM	0.166	1620	11:47:27 AM	0.342	0.176
1680	11:48:45 AM	0.401	1680	11:48:27 AM	0.338	-0.063
1740	11:49:45 AM	0.284	1740	11:49:27 AM	0.326	0.042
1800	11:50:45 AM	0.27	1800	11:50:27 AM	0.297	0.027
1860	11:51:45 AM	0.278	1860	11:51:27 AM	0.308	0.03
1920	11:52:45 AM	0.254	1920	11:52:27 AM	0.328	0.074
1980	11:53:45 AM	0.26	1980	11:53:27 AM	0.315	0.055
2040	11:54:45 AM	0.256	2040	11:54:27 AM	0.311	0.055
2100	11:55:45 AM	0.248	2100	11:55:27 AM	0.305	0.057
2160	11:56:45 AM	0.22	2160	11:56:27 AM	0.297	0.077
2220	11:57:45 AM	0.19	2220	11:57:27 AM	0.29	0.1
2280	11:58:45 AM	0.169	2280	11:58:27 AM	0.285	0.116
2340	11:59:45 AM	0.171	2340	11:59:27 AM	0.282	0.111
2400	12:00:45 PM	0.172	2400	12:00:27 PM	0.283	0.111
2460	12:01:45 PM	0.175	2460	12:01:27 PM	0.281	0.106
2520	12:02:45 PM	0.185	2520	12:02:27 PM	0.279	0.094
2580	12:03:45 PM	0.174	2580	12:03:27 PM	0.28	0.106
2640	12:04:45 PM	0.186	2640	12:04:27 PM	0.283	0.097
2700	12:05:45 PM	0.202	2700	12:05:27 PM	0.281	0.079
2760	12:06:45 PM	0.192	2760	12:06:27 PM	0.276	0.084
2820	12:07:45 PM	0.185	2820	12:07:27 PM	0.283	0.098
2880	12:08:45 PM	0.178	2880	12:08:27 PM	0.273	0.095
2940	12:09:45 PM	0.144	2940	12:09:27 PM	0.263	0.119
3000	12:10:45 PM	0.115	3000	12:10:27 PM	0.266	0.151
3060	12:11:45 PM	0.106	3060	12:11:27 PM	0.273	0.167
3120	12:12:45 PM	0.098	3120	12:12:27 PM	0.258	0.16
3180	12:13:45 PM	0.09	3180	12:13:27 PM	0.256	0.166
3240	12:14:45 PM	0.085	3240	12:14:27 PM	0.247	0.162
3300	12:15:45 PM	0.084	3300	12:15:27 PM	0.26	0.176
3360	12:16:45 PM	0.079	3360	12:16:27 PM	0.263	0.184
3420	12:17:45 PM	0.101	3420	12:17:27 PM	0.257	0.156
3480	12:18:45 PM	0.141	3480	12:18:27 PM	0.255	0.114
3540	12:19:45 PM	0.144	3540	12:19:27 PM	0.252	0.108
3600	12:20:45 PM	0.155	3600	12:20:27 PM	0.246	0.091
3660	12:21:45 PM	0.147	3660	12:21:27 PM	0.251	0.104
3720	12:22:45 PM	0.129	3720	12:22:27 PM	0.24	0.111
3780	12:23:45 PM	0.137	3780	12:23:27 PM	0.22	0.083
3840	12:24:45 PM	0.138	3840	12:24:27 PM	0.22	0.082
3900	12:25:45 PM	0.11	3900	12:25:27 PM	0.219	0.109
3960	12:26:45 PM	0.098	3960	12:26:27 PM	0.227	0.129
4020	12:27:45 PM	0.087	4020	12:27:27 PM	0.251	0.164
4080	12:28:45 PM	0.086	4080	12:28:27 PM	0.258	0.172
4140	12:29:45 PM	0.155	4140	12:29:27 PM	0.264	0.109
4200	12:30:45 PM	0.171	4200	12:30:27 PM	0.26	0.089

4260	12:31:45 PM	0.136	4260	12:31:27 PM	0.253	0.117
4320	12:32:45 PM	0.114	4320	12:32:27 PM	0.246	0.132
4380	12:33:45 PM	0.098	4380	12:33:27 PM	0.248	0.15
4440	12:34:45 PM	0.085	4440	12:34:27 PM	0.246	0.161
4500	12:35:45 PM	0.082	4500	12:35:27 PM	0.251	0.169
4560	12:36:45 PM	0.077	4560	12:36:27 PM	0.254	0.177
4620	12:37:45 PM	0.076	4620	12:37:27 PM	0.248	0.172
4680	12:38:45 PM	0.071	4680	12:38:27 PM	0.257	0.186
4740	12:39:45 PM	0.073	4740	12:39:27 PM	0.258	0.185
4800	12:40:45 PM	0.11	4800	12:40:27 PM	0.259	0.149
4860	12:41:45 PM	0.122	4860	12:41:27 PM	0.242	0.12
4920	12:42:45 PM	0.096	4920	12:42:27 PM	0.218	0.122
4980	12:43:45 PM	0.077	4980	12:43:27 PM	0.186	0.109
5040	12:44:45 PM	0.063	5040	12:44:27 PM	0.185	0.122
5100	12:45:45 PM	0.062	5100	12:45:27 PM	0.189	0.127
5160	12:46:45 PM	0.084	5160	12:46:27 PM	0.213	0.129
5220	12:47:45 PM	0.09	5220	12:47:27 PM	0.226	0.136
5280	12:48:45 PM	0.101	5280	12:48:27 PM	0.226	0.125
5340	12:49:45 PM	0.1	5340	12:49:27 PM	0.222	0.122
5400	12:50:45 PM	0.081	5400	12:50:27 PM	0.212	0.131
5460	12:51:45 PM	0.071	5460	12:51:27 PM	0.207	0.136
5520	12:52:45 PM	0.054	5520	12:52:27 PM	0.193	0.139
5580	12:53:45 PM	0.047	5580	12:53:27 PM	0.189	0.142
5640	12:54:45 PM	0.062	5640	12:54:27 PM	0.168	0.106
5700	12:55:45 PM	0.248	5700	12:55:27 PM	0.194	-0.054
5760	12:56:45 PM	0.157	5760	12:56:27 PM	0.203	0.046
5820	12:57:45 PM	0.091	5820	12:57:27 PM	0.2	0.109
5880	12:58:45 PM	0.087	5880	12:58:27 PM	0.198	0.111
5940	12:59:45 PM	0.129	5940	12:59:27 PM	0.196	0.067
6000	1:00:45 PM	0.106	6000	1:00:27 PM	0.193	0.087
6060	1:01:45 PM	0.085	6060	1:01:27 PM	0.192	0.107
6120	1:02:45 PM	0.088	6120	1:02:27 PM	0.19	0.102
6180	1:03:45 PM	0.082	6180	1:03:27 PM	0.2	0.118
6240	1:04:45 PM	0.153	6240	1:04:27 PM	0.19	0.037
6300	1:05:45 PM	0.17	6300	1:05:27 PM	0.199	0.029
6360	1:06:45 PM	0.131	6360	1:06:27 PM	0.208	0.077
6420	1:07:45 PM	0.109	6420	1:07:27 PM	0.194	0.085
6480	1:08:45 PM	0.092	6480	1:08:27 PM	0.213	0.121
6540	1:09:45 PM	0.101	6540	1:09:27 PM	0.221	0.12
6600	1:10:45 PM	0.087	6600	1:10:27 PM	0.22	0.133
6660	1:11:45 PM	0.075	6660	1:11:27 PM	0.232	0.157
6720	1:12:45 PM	0.066	6720	1:12:27 PM	0.225	0.159
6780	1:13:45 PM	0.061	6780	1:13:27 PM	0.224	0.163
6840	1:14:45 PM	0.076	6840	1:14:27 PM	0.212	0.136
6900	1:15:45 PM	0.09	6900	1:15:27 PM	0.205	0.115
6960	1:16:45 PM	0.127	6960	1:16:27 PM	0.201	0.074

7020	1:17:45 PM	0.187	7020	1:17:27 PM	0.201	0.014
7080	1:18:45 PM	0.114	7080	1:18:27 PM	0.196	0.082
7140	1:19:45 PM	0.089	7140	1:19:27 PM	0.194	0.105
7200	1:20:45 PM	0.088	7200	1:20:27 PM	0.198	0.11
7260	1:21:45 PM	0.094	7260	1:21:27 PM	0.217	0.123
7320	1:22:45 PM	0.103	7320	1:22:27 PM	0.203	0.1
7380	1:23:45 PM	0.124	7380	1:23:27 PM	0.191	0.067
7440	1:24:45 PM	0.181	7440	1:24:27 PM	0.195	0.014
7500	1:25:45 PM	0.155	7500	1:25:27 PM	0.198	0.043
7560	1:26:45 PM	0.134	7560	1:26:27 PM	0.214	0.08
7620	1:27:45 PM	0.159	7620	1:27:27 PM	0.205	0.046
7680	1:28:45 PM	0.162	7680	1:28:27 PM	0.215	0.053
7740	1:29:45 PM	0.15	7740	1:29:27 PM	0.224	0.074
7800	1:30:45 PM	0.14	7800	1:30:27 PM	0.242	0.102
7860	1:31:45 PM	0.134	7860	1:31:27 PM	0.27	0.136
7920	1:32:45 PM	0.13	7920	1:32:27 PM	0.268	0.138
7980	1:33:45 PM	0.125	7980	1:33:27 PM	0.286	0.161
8040	1:34:45 PM	0.119	8040	1:34:27 PM	0.293	0.174
8100	1:35:45 PM	0.116	8100	1:35:27 PM	0.296	0.18
8160	1:36:45 PM	0.114	8160	1:36:27 PM	0.298	0.184
8220	1:37:45 PM	0.152	8220	1:37:27 PM	0.301	0.149
8280	1:38:45 PM	0.171	8280	1:38:27 PM	0.298	0.127
8340	1:39:45 PM	0.157	8340	1:39:27 PM	0.286	0.129
8400	1:40:45 PM	0.15	8400	1:40:27 PM	0.287	0.137
8460	1:41:45 PM	0.149	8460	1:41:27 PM	0.289	0.14
8520	1:42:45 PM	0.146	8520	1:42:27 PM	0.268	0.122
8580	1:43:45 PM	0.146	8580	1:43:27 PM	0.267	0.121
8640	1:44:45 PM	0.152	8640	1:44:27 PM	0.314	0.162
8700	1:45:45 PM	0.152	8700	1:45:27 PM	0.329	0.177
8760	1:46:45 PM	0.153	8760	1:46:27 PM	0.372	0.219
8820	1:47:45 PM	0.154	8820	1:47:27 PM	0.33	0.176
8880	1:48:45 PM	0.158	8880	1:48:27 PM	0.294	0.136
8940	1:49:45 PM	0.145	8940	1:49:27 PM	0.318	0.173
9000	1:50:45 PM	0.16	9000	1:50:27 PM	0.301	0.141
9060	1:51:45 PM	0.173	9060	1:51:27 PM	0.334	0.161
9120	1:52:45 PM	0.197	9120	1:52:27 PM	0.35	0.153
9180	1:53:45 PM	0.212	9180	1:53:27 PM	0.344	0.132
9240	1:54:45 PM	0.212	9240	1:54:27 PM	0.342	0.13
9300	1:55:45 PM	0.214	9300	1:55:27 PM	0.334	0.12
9360	1:56:45 PM	0.218	9360	1:56:27 PM	0.332	0.114
9420	1:57:45 PM	0.215	9420	1:57:27 PM	0.32	0.105
9480	1:58:45 PM	0.211	9480	1:58:27 PM	0.339	0.128
9540	1:59:45 PM	0.223	9540	1:59:27 PM	0.3	0.077
9600	2:00:45 PM	0.234	9600	2:00:27 PM	0.301	0.067
9660	2:01:45 PM	0.272	9660	2:01:27 PM	0.316	0.044
9720	2:02:45 PM	0.244	9720	2:02:27 PM	0.321	0.077

9780	2:03:45 PM	0.232	9780	2:03:27 PM	0.338	0.106
9840	2:04:45 PM	0.224	9840	2:04:27 PM	0.328	0.104
9900	2:05:45 PM	0.218	9900	2:05:27 PM	0.326	0.108
9960	2:06:45 PM	0.223	9960	2:06:27 PM	0.329	0.106
10020	2:07:45 PM	0.23	10020	2:07:27 PM	0.296	0.066
10080	2:08:45 PM	0.226	10080	2:08:27 PM	0.315	0.089
10140	2:09:45 PM	0.22	10140	2:09:27 PM	0.296	0.076
10200	2:10:45 PM	0.234	10200	2:10:27 PM	0.307	0.073
10260	2:11:45 PM	0.23	10260	2:11:27 PM	0.32	0.09
10320	2:12:45 PM	0.24	10320	2:12:27 PM	0.322	0.082
10380	2:13:45 PM	0.232	10380	2:13:27 PM	0.329	0.097
10440	2:14:45 PM	0.238	10440	2:14:27 PM	0.326	0.088
10500	2:15:45 PM	0.357	10500	2:15:27 PM	0.306	-0.051
10560	2:16:45 PM	0.317	10560	2:16:27 PM	0.3	-0.017
10620	2:17:45 PM	0.28	10620	2:17:27 PM	0.32	0.04
10680	2:18:45 PM	0.246	10680	2:18:27 PM	0.324	0.078
10740	2:19:45 PM	0.247	10740	2:19:27 PM	0.314	0.067
10800	2:20:45 PM	0.245	10800	2:20:27 PM	0.309	0.064
10860	2:21:45 PM	0.244	10860	2:21:27 PM	0.29	0.046
10920	2:22:45 PM	0.241	10920	2:22:27 PM	0.277	0.036
10980	2:23:45 PM	0.232	10980	2:23:27 PM	0.285	0.053
11040	2:24:45 PM	0.219	11040	2:24:27 PM	0.262	0.043
11100	2:25:45 PM	0.235	11100	2:25:27 PM	0.286	0.051
11160	2:26:45 PM	0.237	11160	2:26:27 PM	0.296	0.059
11220	2:27:45 PM	0.249	11220	2:27:27 PM	0.3	0.051
11280	2:28:45 PM	0.258	11280	2:28:27 PM	0.294	0.036
11340	2:29:45 PM	0.246	11340	2:29:27 PM	0.282	0.036
11400	2:30:45 PM	0.274	11400	2:30:27 PM	0.282	0.008
11460	2:31:45 PM	0.265	11460	2:31:27 PM	0.282	0.017
11520	2:32:45 PM	0.236	11520	2:32:27 PM	0.277	0.041
11580	2:33:45 PM	0.222	11580	2:33:27 PM	0.271	0.049
11640	2:34:45 PM	0.229	11640	2:34:27 PM	0.293	0.064
11700	2:35:45 PM	0.23	11700	2:35:27 PM	0.292	0.062
11760	2:36:45 PM	0.238	11760	2:36:27 PM	0.297	0.059
11820	2:37:45 PM	0.25	11820	2:37:27 PM	0.285	0.035
11880	2:38:45 PM	0.258	11880	2:38:27 PM	0.268	0.01
11940	2:39:45 PM	0.249	11940	2:39:27 PM	0.286	0.037
12000	2:40:45 PM	0.256	12000	2:40:27 PM	0.284	0.028
12060	2:41:45 PM	0.249	12060	2:41:27 PM	0.271	0.022
12120	2:42:45 PM	0.209	12120	2:42:27 PM	0.252	0.043
12180	2:43:45 PM	0.187	12180	2:43:27 PM	0.28	0.093
12240	2:44:45 PM	0.174	12240	2:44:27 PM	0.306	0.132
12300	2:45:45 PM	0.155	12300	2:45:27 PM	0.311	0.156
12360	2:46:45 PM	0.143	12360	2:46:27 PM	0.317	0.174
12420	2:47:45 PM	0.136	12420	2:47:27 PM	0.31	0.174
12480	2:48:45 PM	0.126	12480	2:48:27 PM	0.31	0.184

12540	2:49:45 PM	0.128	12540	2:49:27 PM	0.303	0.175
12600	2:50:45 PM	0.132	12600	2:50:27 PM	0.297	0.165
12660	2:51:45 PM	0.132	12660	2:51:27 PM	0.296	0.164
12720	2:52:45 PM	0.13	12720	2:52:27 PM	0.292	0.162
12780	2:53:45 PM	0.129	12780	2:53:27 PM	0.292	0.163
12840	2:54:45 PM	0.131	12840	2:54:27 PM	0.295	0.164
12900	2:55:45 PM	0.13	12900	2:55:27 PM	0.285	0.155
12960	2:56:45 PM	0.131	12960	2:56:27 PM	0.282	0.151
13020	2:57:45 PM	0.13	13020	2:57:27 PM	0.276	0.146
13080	2:58:45 PM	0.132	13080	2:58:27 PM	0.273	0.141
13140	2:59:45 PM	0.13	13140	2:59:27 PM	0.276	0.146
13200	3:00:45 PM	0.131	13200	3:00:27 PM	0.28	0.149
13260	3:01:45 PM	0.133	13260	3:01:27 PM	0.281	0.148
13320	3:02:45 PM	0.132	13320	3:02:27 PM	0.279	0.147
13380	3:03:45 PM	0.128	13380	3:03:27 PM	0.28	0.152
13440	3:04:45 PM	0.125	13440	3:04:27 PM	0.277	0.152
13500	3:05:45 PM	0.121	13500	3:05:27 PM	0.271	0.15
13560	3:06:45 PM	0.115	13560	3:06:27 PM	0.258	0.143
13620	3:07:45 PM	0.123	13620	3:07:27 PM	0.257	0.134
13680	3:08:45 PM	0.13	13680	3:08:27 PM	0.255	0.125
13740	3:09:45 PM	0.132	13740	3:09:27 PM	0.244	0.112
13800	3:10:45 PM	0.13	13800	3:10:27 PM	0.241	0.111
13860	3:11:45 PM	0.124	13860	3:11:27 PM	0.233	0.109
13920	3:12:45 PM	0.115	13920	3:12:27 PM	0.229	0.114
13980	3:13:45 PM	0.153	13980	3:13:27 PM	0.223	0.07
14040	3:14:45 PM	0.174	14040	3:14:27 PM	0.217	0.043
14100	3:15:45 PM	0.157	14100	3:15:27 PM	0.213	0.056
14160	3:16:45 PM	0.141	14160	3:16:27 PM	0.211	0.07
14220	3:17:45 PM	0.119	14220	3:17:27 PM	0.212	0.093
14280	3:18:45 PM	0.113	14280	3:18:27 PM	0.213	0.1
14340	3:19:45 PM	0.1	14340	3:19:27 PM	0.214	0.114
14400	3:20:45 PM	0.1	14400	3:20:27 PM	0.21	0.11
14460	3:21:45 PM	0.108	14460	3:21:27 PM	0.209	0.101
14520	3:22:45 PM	0.093	14520	3:22:27 PM	0.21	0.117
14580	3:23:45 PM	0.096	14580	3:23:27 PM	0.242	0.146
14640	3:24:45 PM	0.089	14640	3:24:27 PM	0.266	0.177
14700	3:25:45 PM	0.084	14700	3:25:27 PM	0.236	0.152
14760	3:26:45 PM	0.081	14760	3:26:27 PM	0.224	0.143
14820	3:27:45 PM	0.119	14820	3:27:27 PM	0.22	0.101
14880	3:28:45 PM	0.128	14880	3:28:27 PM	0.212	0.084
14940	3:29:45 PM	0.115	14940	3:29:27 PM	0.209	0.094
15000	3:30:45 PM	0.1	15000	3:30:27 PM	0.205	0.105
15060	3:31:45 PM	0.103	15060	3:31:27 PM	0.203	0.1
15120	3:32:45 PM	0.107	15120	3:32:27 PM	0.202	0.095
15180	3:33:45 PM	0.097	15180	3:33:27 PM	0.201	0.104
15240	3:34:45 PM	0.096	15240	3:34:27 PM	0.201	0.105

15300	3:35:45 PM	0.094	3:35:27 PM	-0.094
15360	3:36:45 PM	0.089	3:36:27 PM	-0.089
15420	3:37:45 PM	0.091	3:37:27 PM	-0.091
15480	3:38:45 PM	0.09	3:38:27 PM	-0.09
15540	3:39:45 PM	0.096	3:39:27 PM	-0.096
15600	3:40:45 PM	0.095	3:40:27 PM	-0.095

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_003
Test Start Time	9:34:56 AM
Test Start Date	3/30/2015
Test Length [D:H:M]	0:03:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.086
Mass Minimum [mg/m3]	0.039
Mass Maximum [mg/m3]	0.25
Mass TWA [mg/m3]	0.041
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	231

Elapsed Time [s]	9:34:56 AM	Mass [mg/m3]	Alarms	Errors
60	9:35:56 AM	0.06		
120	9:36:56 AM	0.056		
180	9:37:56 AM	0.06		
240	9:38:56 AM	0.07		
300	9:39:56 AM	0.071		
360	9:40:56 AM	0.072		
420	9:41:56 AM	0.056		
480	9:42:56 AM	0.055		
540	9:43:56 AM	0.06		
600	9:44:56 AM	0.062		
660	9:45:56 AM	0.054		
720	9:46:56 AM	0.053		
780	9:47:56 AM	0.053		
840	9:48:56 AM	0.058		
900	9:49:56 AM	0.058		
960	9:50:56 AM	0.054		
1020	9:51:56 AM	0.053		
1080	9:52:56 AM	0.049		
1140	9:53:56 AM	0.046		
1200	9:54:56 AM	0.048		
1260	9:55:56 AM	0.055		
1320	9:56:56 AM	0.075		
1380	9:57:56 AM	0.08		
1440	9:58:56 AM	0.088		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_004
Test Start Time	9:35:40 AM
Test Start Date	3/30/2015
Test Length [D:H:M]	0:03:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.177
Mass Minimum [mg/m3]	0.111
Mass Maximum [mg/m3]	0.38
Mass TWA [mg/m3]	0.085
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	231

Elapsed Time [s]	9:35:40 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	9:36:40 AM	0.144			0.088
120	9:37:40 AM	0.137			0.077
180	9:38:40 AM	0.137			0.067
240	9:39:40 AM	0.152			0.081
300	9:40:40 AM	0.161			0.089
360	9:41:40 AM	0.149			0.093
420	9:42:40 AM	0.163			0.108
480	9:43:40 AM	0.146			0.086
540	9:44:40 AM	0.148			0.086
600	9:45:40 AM	0.148			0.094
660	9:46:40 AM	0.154			0.101
720	9:47:40 AM	0.187			0.134
780	9:48:40 AM	0.145			0.087
840	9:49:40 AM	0.135			0.077
900	9:50:40 AM	0.131			0.077
960	9:51:40 AM	0.13			0.077
1020	9:52:40 AM	0.128			0.079
1080	9:53:40 AM	0.125			0.079
1140	9:54:40 AM	0.127			0.079
1200	9:55:40 AM	0.128			0.073
1260	9:56:40 AM	0.135			0.06
1320	9:57:40 AM	0.14			0.06
1380	9:58:40 AM	0.14			0.052

1500	9:59:56 AM	0.065	1440	9:59:40 AM	0.127	0.062
1560	10:00:56 AM	0.042	1500	10:00:40 AM	0.119	0.077
1620	10:01:56 AM	0.041	1560	10:01:40 AM	0.111	0.07
1680	10:02:56 AM	0.041	1620	10:02:40 AM	0.116	0.075
1740	10:03:56 AM	0.039	1680	10:03:40 AM	0.117	0.078
1800	10:04:56 AM	0.044	1740	10:04:40 AM	0.118	0.074
1860	10:05:56 AM	0.054	1800	10:05:40 AM	0.129	0.075
1920	10:06:56 AM	0.071	1860	10:06:40 AM	0.225	0.154
1980	10:07:56 AM	0.057	1920	10:07:40 AM	0.247	0.19
2040	10:08:56 AM	0.061	1980	10:08:40 AM	0.218	0.157
2100	10:09:56 AM	0.055	2040	10:09:40 AM	0.195	0.14
2160	10:10:56 AM	0.055	2100	10:10:40 AM	0.17	0.115
2220	10:11:56 AM	0.05	2160	10:11:40 AM	0.237	0.187
2280	10:12:56 AM	0.053	2220	10:12:40 AM	0.219	0.166
2340	10:13:56 AM	0.05	2280	10:13:40 AM	0.233	0.183
2400	10:14:56 AM	0.049	2340	10:14:40 AM	0.144	0.095
2460	10:15:56 AM	0.057	2400	10:15:40 AM	0.142	0.085
2520	10:16:56 AM	0.062	2460	10:16:40 AM	0.127	0.065
2580	10:17:56 AM	0.067	2520	10:17:40 AM	0.13	0.063
2640	10:18:56 AM	0.074	2580	10:18:40 AM	0.13	0.056
2700	10:19:56 AM	0.077	2640	10:19:40 AM	0.13	0.053
2760	10:20:56 AM	0.08	2700	10:20:40 AM	0.134	0.054
2820	10:21:56 AM	0.079	2760	10:21:40 AM	0.131	0.052
2880	10:22:56 AM	0.076	2820	10:22:40 AM	0.135	0.059
2940	10:23:56 AM	0.072	2880	10:23:40 AM	0.144	0.072
3000	10:24:56 AM	0.066	2940	10:24:40 AM	0.136	0.07
3060	10:25:56 AM	0.061	3000	10:25:40 AM	0.133	0.072
3120	10:26:56 AM	0.054	3060	10:26:40 AM	0.135	0.081
3180	10:27:56 AM	0.051	3120	10:27:40 AM	0.135	0.084
3240	10:28:56 AM	0.051	3180	10:28:40 AM	0.136	0.085
3300	10:29:56 AM	0.052	3240	10:29:40 AM	0.136	0.084
3360	10:30:56 AM	0.064	3300	10:30:40 AM	0.132	0.068
3420	10:31:56 AM	0.071	3360	10:31:40 AM	0.131	0.06
3480	10:32:56 AM	0.074	3420	10:32:40 AM	0.133	0.059
3540	10:33:56 AM	0.072	3480	10:33:40 AM	0.138	0.066
3600	10:34:56 AM	0.075	3540	10:34:40 AM	0.145	0.07
3660	10:35:56 AM	0.075	3600	10:35:40 AM	0.147	0.072
3720	10:36:56 AM	0.07	3660	10:36:40 AM	0.146	0.076
3780	10:37:56 AM	0.071	3720	10:37:40 AM	0.195	0.124
3840	10:38:56 AM	0.065	3780	10:38:40 AM	0.179	0.114
3900	10:39:56 AM	0.061	3840	10:39:40 AM	0.162	0.101
3960	10:40:56 AM	0.057	3900	10:40:40 AM	0.148	0.091
4020	10:41:56 AM	0.06	3960	10:41:40 AM	0.138	0.078
4080	10:42:56 AM	0.057	4020	10:42:40 AM	0.14	0.083
4140	10:43:56 AM	0.059	4080	10:43:40 AM	0.147	0.088
4200	10:44:56 AM	0.057	4140	10:44:40 AM	0.143	0.086

4260	10:45:56 AM	0.057	4200	10:45:40 AM	0.147	0.09
4320	10:46:56 AM	0.063	4260	10:46:40 AM	0.153	0.09
4380	10:47:56 AM	0.072	4320	10:47:40 AM	0.16	0.088
4440	10:48:56 AM	0.074	4380	10:48:40 AM	0.158	0.084
4500	10:49:56 AM	0.08	4440	10:49:40 AM	0.153	0.073
4560	10:50:56 AM	0.089	4500	10:50:40 AM	0.144	0.055
4620	10:51:56 AM	0.072	4560	10:51:40 AM	0.143	0.071
4680	10:52:56 AM	0.064	4620	10:52:40 AM	0.146	0.082
4740	10:53:56 AM	0.072	4680	10:53:40 AM	0.175	0.103
4800	10:54:56 AM	0.082	4740	10:54:40 AM	0.196	0.114
4860	10:55:56 AM	0.09	4800	10:55:40 AM	0.191	0.101
4920	10:56:56 AM	0.089	4860	10:56:40 AM	0.181	0.092
4980	10:57:56 AM	0.09	4920	10:57:40 AM	0.168	0.078
5040	10:58:56 AM	0.082	4980	10:58:40 AM	0.155	0.073
5100	10:59:56 AM	0.075	5040	10:59:40 AM	0.155	0.08
5160	11:00:56 AM	0.07	5100	11:00:40 AM	0.154	0.084
5220	11:01:56 AM	0.065	5160	11:01:40 AM	0.152	0.087
5280	11:02:56 AM	0.066	5220	11:02:40 AM	0.209	0.143
5340	11:03:56 AM	0.066	5280	11:03:40 AM	0.164	0.098
5400	11:04:56 AM	0.066	5340	11:04:40 AM	0.165	0.099
5460	11:05:56 AM	0.061	5400	11:05:40 AM	0.149	0.088
5520	11:06:56 AM	0.057	5460	11:06:40 AM	0.145	0.088
5580	11:07:56 AM	0.055	5520	11:07:40 AM	0.141	0.086
5640	11:08:56 AM	0.054	5580	11:08:40 AM	0.141	0.087
5700	11:09:56 AM	0.054	5640	11:09:40 AM	0.142	0.088
5760	11:10:56 AM	0.052	5700	11:10:40 AM	0.139	0.087
5820	11:11:56 AM	0.053	5760	11:11:40 AM	0.134	0.081
5880	11:12:56 AM	0.053	5820	11:12:40 AM	0.132	0.079
5940	11:13:56 AM	0.053	5880	11:13:40 AM	0.133	0.08
6000	11:14:56 AM	0.051	5940	11:14:40 AM	0.136	0.085
6060	11:15:56 AM	0.052	6000	11:15:40 AM	0.163	0.111
6120	11:16:56 AM	0.056	6060	11:16:40 AM	0.187	0.131
6180	11:17:56 AM	0.073	6120	11:17:40 AM	0.199	0.126
6240	11:18:56 AM	0.074	6180	11:18:40 AM	0.152	0.078
6300	11:19:56 AM	0.068	6240	11:19:40 AM	0.138	0.07
6360	11:20:56 AM	0.057	6300	11:20:40 AM	0.14	0.083
6420	11:21:56 AM	0.054	6360	11:21:40 AM	0.145	0.091
6480	11:22:56 AM	0.078	6420	11:22:40 AM	0.172	0.094
6540	11:23:56 AM	0.075	6480	11:23:40 AM	0.174	0.099
6600	11:24:56 AM	0.065	6540	11:24:40 AM	0.154	0.089
6660	11:25:56 AM	0.073	6600	11:25:40 AM	0.153	0.08
6720	11:26:56 AM	0.073	6660	11:26:40 AM	0.196	0.123
6780	11:27:56 AM	0.078	6720	11:27:40 AM	0.206	0.128
6840	11:28:56 AM	0.06	6780	11:28:40 AM	0.38	0.32
6900	11:29:56 AM	0.061	6840	11:29:40 AM	0.182	0.121
6960	11:30:56 AM	0.061	6900	11:30:40 AM	0.153	0.092

7020	11:31:56 AM	0.071	6960	11:31:40 AM	0.139	0.068
7080	11:32:56 AM	0.076	7020	11:32:40 AM	0.167	0.091
7140	11:33:56 AM	0.092	7080	11:33:40 AM	0.156	0.064
7200	11:34:56 AM	0.102	7140	11:34:40 AM	0.147	0.045
7260	11:35:56 AM	0.109	7200	11:35:40 AM	0.141	0.032
7320	11:36:56 AM	0.099	7260	11:36:40 AM	0.157	0.058
7380	11:37:56 AM	0.096	7320	11:37:40 AM	0.234	0.138
7440	11:38:56 AM	0.088	7380	11:38:40 AM	0.184	0.096
7500	11:39:56 AM	0.084	7440	11:39:40 AM	0.191	0.107
7560	11:40:56 AM	0.093	7500	11:40:40 AM	0.163	0.07
7620	11:41:56 AM	0.1	7560	11:41:40 AM	0.146	0.046
7680	11:42:56 AM	0.085	7620	11:42:40 AM	0.159	0.074
7740	11:43:56 AM	0.079	7680	11:43:40 AM	0.165	0.086
7800	11:44:56 AM	0.084	7740	11:44:40 AM	0.163	0.079
7860	11:45:56 AM	0.09	7800	11:45:40 AM	0.167	0.077
7920	11:46:56 AM	0.087	7860	11:46:40 AM	0.19	0.103
7980	11:47:56 AM	0.093	7920	11:47:40 AM	0.172	0.079
8040	11:48:56 AM	0.088	7980	11:48:40 AM	0.159	0.071
8100	11:49:56 AM	0.094	8040	11:49:40 AM	0.171	0.077
8160	11:50:56 AM	0.083	8100	11:50:40 AM	0.151	0.068
8220	11:51:56 AM	0.085	8160	11:51:40 AM	0.147	0.062
8280	11:52:56 AM	0.083	8220	11:52:40 AM	0.152	0.069
8340	11:53:56 AM	0.08	8280	11:53:40 AM	0.169	0.089
8400	11:54:56 AM	0.083	8340	11:54:40 AM	0.19	0.107
8460	11:55:56 AM	0.105	8400	11:55:40 AM	0.191	0.086
8520	11:56:56 AM	0.112	8460	11:56:40 AM	0.177	0.065
8580	11:57:56 AM	0.094	8520	11:57:40 AM	0.168	0.074
8640	11:58:56 AM	0.089	8580	11:58:40 AM	0.213	0.124
8700	11:59:56 AM	0.093	8640	11:59:40 AM	0.258	0.165
8760	12:00:56 PM	0.097	8700	12:00:40 PM	0.166	0.069
8820	12:01:56 PM	0.092	8760	12:01:40 PM	0.163	0.071
8880	12:02:56 PM	0.084	8820	12:02:40 PM	0.159	0.075
8940	12:03:56 PM	0.086	8880	12:03:40 PM	0.239	0.153
9000	12:04:56 PM	0.097	8940	12:04:40 PM	0.216	0.119
9060	12:05:56 PM	0.089	9000	12:05:40 PM	0.168	0.079
9120	12:06:56 PM	0.086	9060	12:06:40 PM	0.176	0.09
9180	12:07:56 PM	0.083	9120	12:07:40 PM	0.177	0.094
9240	12:08:56 PM	0.076	9180	12:08:40 PM	0.23	0.154
9300	12:09:56 PM	0.076	9240	12:09:40 PM	0.289	0.213
9360	12:10:56 PM	0.076	9300	12:10:40 PM	0.207	0.131
9420	12:11:56 PM	0.073	9360	12:11:40 PM	0.168	0.095
9480	12:12:56 PM	0.078	9420	12:12:40 PM	0.185	0.107
9540	12:13:56 PM	0.096	9480	12:13:40 PM	0.171	0.075
9600	12:14:56 PM	0.096	9540	12:14:40 PM	0.163	0.067
9660	12:15:56 PM	0.094	9600	12:15:40 PM	0.16	0.066
9720	12:16:56 PM	0.108	9660	12:16:40 PM	0.16	0.052

9780	12:17:56 PM	0.113	9720	12:17:40 PM	0.162	0.049
9840	12:18:56 PM	0.1	9780	12:18:40 PM	0.162	0.062
9900	12:19:56 PM	0.091	9840	12:19:40 PM	0.16	0.069
9960	12:20:56 PM	0.08	9900	12:20:40 PM	0.155	0.075
10020	12:21:56 PM	0.078	9960	12:21:40 PM	0.151	0.073
10080	12:22:56 PM	0.096	10020	12:22:40 PM	0.156	0.06
10140	12:23:56 PM	0.094	10080	12:23:40 PM	0.176	0.082
10200	12:24:56 PM	0.25	10140	12:24:40 PM	0.189	-0.061
10260	12:25:56 PM	0.122	10200	12:25:40 PM	0.274	0.152
10320	12:26:56 PM	0.091	10260	12:26:40 PM	0.217	0.126
10380	12:27:56 PM	0.097	10320	12:27:40 PM	0.193	0.096
10440	12:28:56 PM	0.127	10380	12:28:40 PM	0.187	0.06
10500	12:29:56 PM	0.163	10440	12:29:40 PM	0.186	0.023
10560	12:30:56 PM	0.162	10500	12:30:40 PM	0.241	0.079
10620	12:31:56 PM	0.139	10560	12:31:40 PM	0.218	0.079
10680	12:32:56 PM	0.152	10620	12:32:40 PM	0.174	0.022
10740	12:33:56 PM	0.159	10680	12:33:40 PM	0.174	0.015
10800	12:34:56 PM	0.135	10740	12:34:40 PM	0.181	0.046
10860	12:35:56 PM	0.14	10800	12:35:40 PM	0.188	0.048
10920	12:36:56 PM	0.131	10860	12:36:40 PM	0.181	0.05
10980	12:37:56 PM	0.126	10920	12:37:40 PM	0.19	0.064
11040	12:38:56 PM	0.12	10980	12:38:40 PM	0.191	0.071
11100	12:39:56 PM	0.115	11040	12:39:40 PM	0.187	0.072
11160	12:40:56 PM	0.118	11100	12:40:40 PM	0.183	0.065
11220	12:41:56 PM	0.118	11160	12:41:40 PM	0.188	0.07
11280	12:42:56 PM	0.12	11220	12:42:40 PM	0.222	0.102
11340	12:43:56 PM	0.114	11280	12:43:40 PM	0.305	0.191
11400	12:44:56 PM	0.106	11340	12:44:40 PM	0.304	0.198
11460	12:45:56 PM	0.114	11400	12:45:40 PM	0.288	0.174
11520	12:46:56 PM	0.109	11460	12:46:40 PM	0.211	0.102
11580	12:47:56 PM	0.107	11520	12:47:40 PM	0.195	0.088
11640	12:48:56 PM	0.102	11580	12:48:40 PM	0.246	0.144
11700	12:49:56 PM	0.109	11640	12:49:40 PM	0.222	0.113
11760	12:50:56 PM	0.114	11700	12:50:40 PM	0.215	0.101
11820	12:51:56 PM	0.114	11760	12:51:40 PM	0.199	0.085
11880	12:52:56 PM	0.116	11820	12:52:40 PM	0.196	0.08
11940	12:53:56 PM	0.116	11880	12:53:40 PM	0.19	0.074
12000	12:54:56 PM	0.113	11940	12:54:40 PM	0.194	0.081
12060	12:55:56 PM	0.111	12000	12:55:40 PM	0.206	0.095
12120	12:56:56 PM	0.114	12060	12:56:40 PM	0.23	0.116
12180	12:57:56 PM	0.111	12120	12:57:40 PM	0.223	0.112
12240	12:58:56 PM	0.121	12180	12:58:40 PM	0.205	0.084
12300	12:59:56 PM	0.118	12240	12:59:40 PM	0.207	0.089
12360	1:00:56 PM	0.119	12300	1:00:40 PM	0.211	0.092
12420	1:01:56 PM	0.119	12360	1:01:40 PM	0.21	0.091
12480	1:02:56 PM	0.119	12420	1:02:40 PM	0.217	0.098

12540	1:03:56 PM	0.111	12480	1:03:40 PM	0.219	0.108
12600	1:04:56 PM	0.113	12540	1:04:40 PM	0.214	0.101
12660	1:05:56 PM	0.097	12600	1:05:40 PM	0.213	0.116
12720	1:06:56 PM	0.097	12660	1:06:40 PM	0.255	0.158
12780	1:07:56 PM	0.092	12720	1:07:40 PM	0.25	0.158
12840	1:08:56 PM	0.099	12780	1:08:40 PM	0.263	0.164
12900	1:09:56 PM	0.104	12840	1:09:40 PM	0.237	0.133
12960	1:10:56 PM	0.104	12900	1:10:40 PM	0.234	0.13
13020	1:11:56 PM	0.105	12960	1:11:40 PM	0.229	0.124
13080	1:12:56 PM	0.114	13020	1:12:40 PM	0.222	0.108
13140	1:13:56 PM	0.108	13080	1:13:40 PM	0.225	0.117
13200	1:14:56 PM	0.117	13140	1:14:40 PM	0.227	0.11
13260	1:15:56 PM	0.124	13200	1:15:40 PM	0.237	0.113
13320	1:16:56 PM	0.123	13260	1:16:40 PM	0.205	0.082
13380	1:17:56 PM	0.238	13320	1:17:40 PM	0.202	-0.036
13440	1:18:56 PM	0.179	13380	1:18:40 PM	0.209	0.03
13500	1:19:56 PM	0.144	13440	1:19:40 PM	0.216	0.072
13560	1:20:56 PM	0.137	13500	1:20:40 PM	0.221	0.084
13620	1:21:56 PM	0.142	13560	1:21:40 PM	0.219	0.077
13680	1:22:56 PM	0.131	13620	1:22:40 PM	0.224	0.093
13740	1:23:56 PM	0.132	13680	1:23:40 PM	0.222	0.09
13800	1:24:56 PM	0.131	13740	1:24:40 PM	0.227	0.096
13860	1:25:56 PM	0.127	13800	1:25:40 PM	0.228	0.101
			13860	1:26:40 PM	0.223	0.223

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_001
Test Start Time	9:46:53 AM
Test Start Date	3/26/2015
Test Length [D:H:M]	0:05:22
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.193
Mass Minimum [mg/m3]	0.075
Mass Maximum [mg/m3]	0.281
Mass TWA [mg/m3]	0.129
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	322

Elapsed Time [s]	9:46:53 AM	Mass [mg/m3]	Alarms	Errors
60	9:47:53 AM	0.076		
120	9:48:53 AM	0.075		
180	9:49:53 AM	0.075		
240	9:50:53 AM	0.078		
300	9:51:53 AM	0.076		
360	9:52:53 AM	0.079		
420	9:53:53 AM	0.081		
480	9:54:53 AM	0.08		
540	9:55:53 AM	0.085		
600	9:56:53 AM	0.085		
660	9:57:53 AM	0.085		
720	9:58:53 AM	0.085		
780	9:59:53 AM	0.086		
840	10:00:53 AM	0.087		
900	10:01:53 AM	0.087		
960	10:02:53 AM	0.088		
1020	10:03:53 AM	0.092		
1080	10:04:53 AM	0.093		
1140	10:05:53 AM	0.091		
1200	10:06:53 AM	0.092		
1260	10:07:53 AM	0.106		
1320	10:08:53 AM	0.117		
1380	10:09:53 AM	0.116		
1440	10:10:53 AM	0.103		
1500	10:11:53 AM	0.11		
1560	10:12:53 AM	0.11		
1620	10:13:53 AM	0.108		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_002
Test Start Time	9:45:20 AM
Test Start Date	3/26/2015
Test Length [D:H:M]	0:05:22
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.211
Mass Minimum [mg/m3]	0.142
Mass Maximum [mg/m3]	0.321
Mass TWA [mg/m3]	0.142
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	322

Elapsed Time [s]	9:45:20 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	9:46:20 AM	0.189			0.113
120	9:47:20 AM	0.142			0.067
180	9:48:20 AM	0.16			0.085
240	9:49:20 AM	0.156			0.078
300	9:50:20 AM	0.148			0.072
360	9:51:20 AM	0.148			0.069
420	9:52:20 AM	0.145			0.064
480	9:53:20 AM	0.148			0.068
540	9:54:20 AM	0.148			0.063
600	9:55:20 AM	0.151			0.066
660	9:56:20 AM	0.152			0.067
720	9:57:20 AM	0.153			0.068
780	9:58:20 AM	0.152			0.066
840	9:59:20 AM	0.155			0.068
900	10:00:20 AM	0.158			0.071
960	10:01:20 AM	0.16			0.072
1020	10:02:20 AM	0.157			0.065
1080	10:03:20 AM	0.155			0.062
1140	10:04:20 AM	0.16			0.069
1200	10:05:20 AM	0.157			0.065
1260	10:06:20 AM	0.156			0.05
1320	10:07:20 AM	0.156			0.039
1380	10:08:20 AM	0.17			0.054
1440	10:09:20 AM	0.171			0.068
1500	10:10:20 AM	0.171			0.061
1560	10:11:20 AM	0.176			0.066
1620	10:12:20 AM	0.184			0.076
1680	10:13:20 AM	0.19			0.082

1680	10:14:53 AM	0.108	1740	10:14:20 AM	0.178	0.067
1740	10:15:53 AM	0.111	1800	10:15:20 AM	0.177	0.066
1800	10:16:53 AM	0.111	1860	10:16:20 AM	0.178	0.069
1860	10:17:53 AM	0.109	1920	10:17:20 AM	0.207	0.099
1920	10:18:53 AM	0.108	1980	10:18:20 AM	0.21	0.098
1980	10:19:53 AM	0.112	2040	10:19:20 AM	0.204	0.091
2040	10:20:53 AM	0.113	2100	10:20:20 AM	0.192	0.075
2100	10:21:53 AM	0.117	2160	10:21:20 AM	0.182	0.062
2160	10:22:53 AM	0.12	2220	10:22:20 AM	0.187	0.053
2220	10:23:53 AM	0.134	2280	10:23:20 AM	0.186	0.059
2280	10:24:53 AM	0.127	2340	10:24:20 AM	0.186	0.059
2340	10:25:53 AM	0.127	2400	10:25:20 AM	0.172	0.048
2400	10:26:53 AM	0.124	2460	10:26:20 AM	0.17	0.051
2460	10:27:53 AM	0.119	2520	10:27:20 AM	0.181	0.06
2520	10:28:53 AM	0.121	2580	10:28:20 AM	0.177	0.058
2580	10:29:53 AM	0.119	2640	10:29:20 AM	0.175	0.055
2640	10:30:53 AM	0.12	2700	10:30:20 AM	0.174	0.056
2700	10:31:53 AM	0.118	2760	10:31:20 AM	0.174	0.05
2760	10:32:53 AM	0.124	2820	10:32:20 AM	0.173	0.051
2820	10:33:53 AM	0.122	2880	10:33:20 AM	0.169	0.049
2880	10:34:53 AM	0.12	2940	10:34:20 AM	0.169	0.045
2940	10:35:53 AM	0.124	3000	10:35:20 AM	0.171	0.052
3000	10:36:53 AM	0.119	3060	10:36:20 AM	0.169	0.044
3060	10:37:53 AM	0.125	3120	10:37:20 AM	0.163	0.039
3120	10:38:53 AM	0.124	3180	10:38:20 AM	0.167	0.045
3180	10:39:53 AM	0.122	3240	10:39:20 AM	0.164	0.04
3240	10:40:53 AM	0.124	3300	10:40:20 AM	0.167	0.038
3300	10:41:53 AM	0.129	3360	10:41:20 AM	0.168	0.027
3360	10:42:53 AM	0.141	3420	10:42:20 AM	0.168	0.025
3420	10:43:53 AM	0.143	3480	10:43:20 AM	0.168	0.025
3480	10:44:53 AM	0.143	3540	10:44:20 AM	0.168	0.027
3540	10:45:53 AM	0.141	3600	10:45:20 AM	0.169	0.04
3600	10:46:53 AM	0.129	3660	10:46:20 AM	0.167	0
3660	10:47:53 AM	0.167	3720	10:47:20 AM	0.173	0.038
3720	10:48:53 AM	0.135	3780	10:48:20 AM	0.182	0.047
3780	10:49:53 AM	0.135	3840	10:49:20 AM	0.18	0.044
3840	10:50:53 AM	0.136	3900	10:50:20 AM	0.183	0.046
3900	10:51:53 AM	0.137	3960	10:51:20 AM	0.179	0.04
3960	10:52:53 AM	0.139	4020	10:52:20 AM	0.181	0.039
4020	10:53:53 AM	0.142	4080	10:53:20 AM	0.178	0.031
4080	10:54:53 AM	0.147	4140	10:54:20 AM	0.178	0.031
4140	10:55:53 AM	0.147	4200	10:55:20 AM	0.182	0.033
4200	10:56:53 AM	0.149	4260	10:56:20 AM	0.182	0.039
4260	10:57:53 AM	0.143	4320	10:57:20 AM	0.183	0.034
4320	10:58:53 AM	0.149	4380	10:58:20 AM	0.18	0.022
4380	10:59:53 AM	0.158	4440	10:59:20 AM	0.178	0.024
4440	11:00:53 AM	0.154	4500	11:00:20 AM	0.179	0.031
4500	11:01:53 AM	0.148	4560	11:01:20 AM	0.182	0.036
4560	11:02:53 AM	0.146	4620	11:02:20 AM	0.181	0.029
4620	11:03:53 AM	0.152	4680	11:03:20 AM	0.18	0.03

4680	11:04:53 AM	0.15	4740	11:04:20 AM	0.186	0.034
4740	11:05:53 AM	0.152	4800	11:05:20 AM	0.178	0.029
4800	11:06:53 AM	0.149	4860	11:06:20 AM	0.18	0.025
4860	11:07:53 AM	0.155	4920	11:07:20 AM	0.182	0.021
4920	11:08:53 AM	0.161	4980	11:08:20 AM	0.185	0.024
4980	11:09:53 AM	0.161	5040	11:09:20 AM	0.182	0.011
5040	11:10:53 AM	0.171	5100	11:10:20 AM	0.184	0.026
5100	11:11:53 AM	0.158	5160	11:11:20 AM	0.183	0.022
5160	11:12:53 AM	0.161	5220	11:12:20 AM	0.179	0.025
5220	11:13:53 AM	0.154	5280	11:13:20 AM	0.18	0.026
5280	11:14:53 AM	0.154	5340	11:14:20 AM	0.176	0.021
5340	11:15:53 AM	0.155	5400	11:15:20 AM	0.175	0.019
5400	11:16:53 AM	0.156	5460	11:16:20 AM	0.173	0.022
5460	11:17:53 AM	0.151	5520	11:17:20 AM	0.176	0.029
5520	11:18:53 AM	0.147	5580	11:18:20 AM	0.183	0.042
5580	11:19:53 AM	0.141	5640	11:19:20 AM	0.177	0.031
5640	11:20:53 AM	0.146	5700	11:20:20 AM	0.179	0.039
5700	11:21:53 AM	0.14	5760	11:21:20 AM	0.173	0.032
5760	11:22:53 AM	0.141	5820	11:22:20 AM	0.178	0.035
5820	11:23:53 AM	0.143	5880	11:23:20 AM	0.18	0.035
5880	11:24:53 AM	0.145	5940	11:24:20 AM	0.176	0.024
5940	11:25:53 AM	0.152	6000	11:25:20 AM	0.179	0.03
6000	11:26:53 AM	0.149	6060	11:26:20 AM	0.178	0.032
6060	11:27:53 AM	0.146	6120	11:27:20 AM	0.173	0.029
6120	11:28:53 AM	0.144	6180	11:28:20 AM	0.168	0.023
6180	11:29:53 AM	0.145	6240	11:29:20 AM	0.169	0.022
6240	11:30:53 AM	0.147	6300	11:30:20 AM	0.17	0.027
6300	11:31:53 AM	0.143	6360	11:31:20 AM	0.171	0.024
6360	11:32:53 AM	0.147	6420	11:32:20 AM	0.171	0.021
6420	11:33:53 AM	0.15	6480	11:33:20 AM	0.173	0.029
6480	11:34:53 AM	0.144	6540	11:34:20 AM	0.178	0.035
6540	11:35:53 AM	0.143	6600	11:35:20 AM	0.178	0.038
6600	11:36:53 AM	0.14	6660	11:36:20 AM	0.176	0.033
6660	11:37:53 AM	0.143	6720	11:37:20 AM	0.172	0.031
6720	11:38:53 AM	0.141	6780	11:38:20 AM	0.176	0.038
6780	11:39:53 AM	0.138	6840	11:39:20 AM	0.174	0.037
6840	11:40:53 AM	0.137	6900	11:40:20 AM	0.188	0.051
6900	11:41:53 AM	0.137	6960	11:41:20 AM	0.2	0.061
6960	11:42:53 AM	0.139	7020	11:42:20 AM	0.188	0.053
7020	11:43:53 AM	0.135	7080	11:43:20 AM	0.195	0.06
7080	11:44:53 AM	0.135	7140	11:44:20 AM	0.19	0.057
7140	11:45:53 AM	0.133	7200	11:45:20 AM	0.187	0.055
7200	11:46:53 AM	0.132	7260	11:46:20 AM	0.185	0.052
7260	11:47:53 AM	0.133	7320	11:47:20 AM	0.183	0.056
7320	11:48:53 AM	0.127	7380	11:48:20 AM	0.179	0.049
7380	11:49:53 AM	0.13	7440	11:49:20 AM	0.18	0.05
7440	11:50:53 AM	0.13	7500	11:50:20 AM	0.173	0.046
7500	11:51:53 AM	0.127	7560	11:51:20 AM	0.169	0.044
7560	11:52:53 AM	0.125	7620	11:52:20 AM	0.171	0.047
7620	11:53:53 AM	0.124	7680	11:53:20 AM	0.171	0.049

7680	11:54:53 AM	0.122	7740	11:54:20 AM	0.169	0.048
7740	11:55:53 AM	0.121	7800	11:55:20 AM	0.168	0.047
7800	11:56:53 AM	0.121	7860	11:56:20 AM	0.17	0.052
7860	11:57:53 AM	0.118	7920	11:57:20 AM	0.167	0.048
7920	11:58:53 AM	0.119	7980	11:58:20 AM	0.167	0.046
7980	11:59:53 AM	0.121	8040	11:59:20 AM	0.165	0.039
8040	12:00:53 PM	0.126	8100	12:00:20 PM	0.165	0.027
8100	12:01:53 PM	0.138	8160	12:01:20 PM	0.166	0.021
8160	12:02:53 PM	0.145	8220	12:02:20 PM	0.167	0.03
8220	12:03:53 PM	0.137	8280	12:03:20 PM	0.165	0.016
8280	12:04:53 PM	0.149	8340	12:04:20 PM	0.166	0.026
8340	12:05:53 PM	0.14	8400	12:05:20 PM	0.166	0.02
8400	12:06:53 PM	0.146	8460	12:06:20 PM	0.162	0.004
8460	12:07:53 PM	0.158	8520	12:07:20 PM	0.163	-0.007
8520	12:08:53 PM	0.17	8580	12:08:20 PM	0.172	0
8580	12:09:53 PM	0.172	8640	12:09:20 PM	0.17	-0.003
8640	12:10:53 PM	0.173	8700	12:10:20 PM	0.175	-0.028
8700	12:11:53 PM	0.203	8760	12:11:20 PM	0.174	-0.042
8760	12:12:53 PM	0.216	8820	12:12:20 PM	0.176	-0.035
8820	12:13:53 PM	0.211	8880	12:13:20 PM	0.186	-0.03
8880	12:14:53 PM	0.216	8940	12:14:20 PM	0.188	-0.028
8940	12:15:53 PM	0.216	9000	12:15:20 PM	0.192	-0.021
9000	12:16:53 PM	0.213	9060	12:16:20 PM	0.191	-0.021
9060	12:17:53 PM	0.212	9120	12:17:20 PM	0.196	-0.017
9120	12:18:53 PM	0.213	9180	12:18:20 PM	0.197	-0.013
9180	12:19:53 PM	0.21	9240	12:19:20 PM	0.196	-0.02
9240	12:20:53 PM	0.216	9300	12:20:20 PM	0.192	-0.026
9300	12:21:53 PM	0.218	9360	12:21:20 PM	0.189	-0.03
9360	12:22:53 PM	0.219	9420	12:22:20 PM	0.187	-0.034
9420	12:23:53 PM	0.221	9480	12:23:20 PM	0.189	-0.032
9480	12:24:53 PM	0.221	9540	12:24:20 PM	0.194	-0.027
9540	12:25:53 PM	0.221	9600	12:25:20 PM	0.209	-0.01
9600	12:26:53 PM	0.219	9660	12:26:20 PM	0.216	-0.003
9660	12:27:53 PM	0.219	9720	12:27:20 PM	0.222	0.002
9720	12:28:53 PM	0.22	9780	12:28:20 PM	0.225	0.009
9780	12:29:53 PM	0.216	9840	12:29:20 PM	0.22	0.008
9840	12:30:53 PM	0.212	9900	12:30:20 PM	0.216	0.003
9900	12:31:53 PM	0.213	9960	12:31:20 PM	0.209	0.003
9960	12:32:53 PM	0.206	10020	12:32:20 PM	0.226	0.018
10020	12:33:53 PM	0.208	10080	12:33:20 PM	0.224	0
10080	12:34:53 PM	0.224	10140	12:34:20 PM	0.23	0.011
10140	12:35:53 PM	0.219	10200	12:35:20 PM	0.228	0.002
10200	12:36:53 PM	0.226	10260	12:36:20 PM	0.225	-0.008
10260	12:37:53 PM	0.233	10320	12:37:20 PM	0.224	-0.011
10320	12:38:53 PM	0.235	10380	12:38:20 PM	0.215	-0.027
10380	12:39:53 PM	0.242	10440	12:39:20 PM	0.207	-0.036
10440	12:40:53 PM	0.243	10500	12:40:20 PM	0.204	-0.038
10500	12:41:53 PM	0.242	10560	12:41:20 PM	0.21	-0.027
10560	12:42:53 PM	0.237	10620	12:42:20 PM	0.214	-0.022
10620	12:43:53 PM	0.236	10680	12:43:20 PM	0.215	-0.02

10680	12:44:53 PM	0.235	10740	12:44:20 PM	0.207	-0.019
10740	12:45:53 PM	0.226	10800	12:45:20 PM	0.215	-0.016
10800	12:46:53 PM	0.231	10860	12:46:20 PM	0.235	0.005
10860	12:47:53 PM	0.23	10920	12:47:20 PM	0.226	-0.006
10920	12:48:53 PM	0.232	10980	12:48:20 PM	0.244	0.007
10980	12:49:53 PM	0.237	11040	12:49:20 PM	0.236	-0.002
11040	12:50:53 PM	0.238	11100	12:50:20 PM	0.234	-0.005
11100	12:51:53 PM	0.239	11160	12:51:20 PM	0.23	-0.009
11160	12:52:53 PM	0.239	11220	12:52:20 PM	0.234	-0.001
11220	12:53:53 PM	0.235	11280	12:53:20 PM	0.227	-0.01
11280	12:54:53 PM	0.237	11340	12:54:20 PM	0.226	-0.014
11340	12:55:53 PM	0.24	11400	12:55:20 PM	0.226	-0.016
11400	12:56:53 PM	0.242	11460	12:56:20 PM	0.228	-0.015
11460	12:57:53 PM	0.243	11520	12:57:20 PM	0.226	-0.017
11520	12:58:53 PM	0.243	11580	12:58:20 PM	0.229	-0.02
11580	12:59:53 PM	0.249	11640	12:59:20 PM	0.228	-0.021
11640	1:00:53 PM	0.249	11700	1:00:20 PM	0.232	-0.019
11700	1:01:53 PM	0.251	11760	1:01:20 PM	0.231	-0.017
11760	1:02:53 PM	0.248	11820	1:02:20 PM	0.231	-0.018
11820	1:03:53 PM	0.249	11880	1:03:20 PM	0.237	-0.014
11880	1:04:53 PM	0.251	11940	1:04:20 PM	0.249	-0.003
11940	1:05:53 PM	0.252	12000	1:05:20 PM	0.248	-0.005
12000	1:06:53 PM	0.253	12060	1:06:20 PM	0.257	0.005
12060	1:07:53 PM	0.252	12120	1:07:20 PM	0.263	0.004
12120	1:08:53 PM	0.259	12180	1:08:20 PM	0.263	0.003
12180	1:09:53 PM	0.26	12240	1:09:20 PM	0.272	0.01
12240	1:10:53 PM	0.262	12300	1:10:20 PM	0.281	0.017
12300	1:11:53 PM	0.264	12360	1:11:20 PM	0.275	0.006
12360	1:12:53 PM	0.269	12420	1:12:20 PM	0.231	-0.041
12420	1:13:53 PM	0.272	12480	1:13:20 PM	0.217	-0.057
12480	1:14:53 PM	0.274	12540	1:14:20 PM	0.22	-0.058
12540	1:15:53 PM	0.278	12600	1:15:20 PM	0.226	-0.052
12600	1:16:53 PM	0.278	12660	1:16:20 PM	0.22	-0.061
12660	1:17:53 PM	0.281	12720	1:17:20 PM	0.229	-0.047
12720	1:18:53 PM	0.276	12780	1:18:20 PM	0.271	-0.006
12780	1:19:53 PM	0.277	12840	1:19:20 PM	0.225	-0.051
12840	1:20:53 PM	0.276	12900	1:20:20 PM	0.233	-0.047
12900	1:21:53 PM	0.28	12960	1:21:20 PM	0.234	-0.036
12960	1:22:53 PM	0.27	13020	1:22:20 PM	0.214	-0.058
13020	1:23:53 PM	0.272	13080	1:23:20 PM	0.205	-0.06
13080	1:24:53 PM	0.265	13140	1:24:20 PM	0.2	-0.07
13140	1:25:53 PM	0.27	13200	1:25:20 PM	0.198	-0.067
13200	1:26:53 PM	0.265	13260	1:26:20 PM	0.207	-0.058
13260	1:27:53 PM	0.265	13320	1:27:20 PM	0.203	-0.064
13320	1:28:53 PM	0.267	13380	1:28:20 PM	0.227	-0.037
13380	1:29:53 PM	0.264	13440	1:29:20 PM	0.23	-0.037
13440	1:30:53 PM	0.267	13500	1:30:20 PM	0.224	-0.039
13500	1:31:53 PM	0.263	13560	1:31:20 PM	0.222	-0.042
13560	1:32:53 PM	0.264	13620	1:32:20 PM	0.232	-0.02
13620	1:33:53 PM	0.252	13680	1:33:20 PM	0.237	-0.02

13680	1:34:53 PM	0.257	13740	1:34:20 PM	0.228	-0.033
13740	1:35:53 PM	0.261	13800	1:35:20 PM	0.229	-0.028
13800	1:36:53 PM	0.257	13860	1:36:20 PM	0.219	-0.034
13860	1:37:53 PM	0.253	13920	1:37:20 PM	0.224	-0.026
13920	1:38:53 PM	0.25	13980	1:38:20 PM	0.228	-0.018
13980	1:39:53 PM	0.246	14040	1:39:20 PM	0.224	-0.021
14040	1:40:53 PM	0.245	14100	1:40:20 PM	0.216	-0.032
14100	1:41:53 PM	0.248	14160	1:41:20 PM	0.242	-0.011
14160	1:42:53 PM	0.253	14220	1:42:20 PM	0.264	0.012
14220	1:43:53 PM	0.252	14280	1:43:20 PM	0.27	0.016
14280	1:44:53 PM	0.254	14340	1:44:20 PM	0.277	0.029
14340	1:45:53 PM	0.248	14400	1:45:20 PM	0.27	0.056
14400	1:46:53 PM	0.214	14460	1:46:20 PM	0.257	0.015
14460	1:47:53 PM	0.242	14520	1:47:20 PM	0.242	-0.001
14520	1:48:53 PM	0.243	14580	1:48:20 PM	0.245	-0.006
14580	1:49:53 PM	0.251	14640	1:49:20 PM	0.246	0.002
14640	1:50:53 PM	0.244	14700	1:50:20 PM	0.247	0.003
14700	1:51:53 PM	0.244	14760	1:51:20 PM	0.255	0.014
14760	1:52:53 PM	0.241	14820	1:52:20 PM	0.255	0.013
14820	1:53:53 PM	0.242	14880	1:53:20 PM	0.255	0.011
14880	1:54:53 PM	0.244	14940	1:54:20 PM	0.26	0.014
14940	1:55:53 PM	0.246	15000	1:55:20 PM	0.255	0.009
15000	1:56:53 PM	0.246	15060	1:56:20 PM	0.244	-0.005
15060	1:57:53 PM	0.249	15120	1:57:20 PM	0.243	-0.01
15120	1:58:53 PM	0.253	15180	1:58:20 PM	0.242	-0.009
15180	1:59:53 PM	0.251	15240	1:59:20 PM	0.243	-0.012
15240	2:00:53 PM	0.255	15300	2:00:20 PM	0.241	-0.017
15300	2:01:53 PM	0.258	15360	2:01:20 PM	0.252	-0.007
15360	2:02:53 PM	0.259	15420	2:02:20 PM	0.244	-0.012
15420	2:03:53 PM	0.256	15480	2:03:20 PM	0.228	-0.024
15480	2:04:53 PM	0.252	15540	2:04:20 PM	0.245	-0.007
15540	2:05:53 PM	0.252	15600	2:05:20 PM	0.247	-0.005
15600	2:06:53 PM	0.252	15660	2:06:20 PM	0.24	-0.015
15660	2:07:53 PM	0.255	15720	2:07:20 PM	0.236	-0.017
15720	2:08:53 PM	0.253	15780	2:08:20 PM	0.233	-0.024
15780	2:09:53 PM	0.257	15840	2:09:20 PM	0.248	-0.01
15840	2:10:53 PM	0.258	15900	2:10:20 PM	0.255	-0.01
15900	2:11:53 PM	0.265	15960	2:11:20 PM	0.261	0.005
15960	2:12:53 PM	0.256	16020	2:12:20 PM	0.258	0.002
16020	2:13:53 PM	0.256	16080	2:13:20 PM	0.264	0.011
16080	2:14:53 PM	0.253	16140	2:14:20 PM	0.261	-0.002
16140	2:15:53 PM	0.263	16200	2:15:20 PM	0.262	-0.002
16200	2:16:53 PM	0.264	16260	2:16:20 PM	0.26	0.004
16260	2:17:53 PM	0.256	16320	2:17:20 PM	0.259	0.004
16320	2:18:53 PM	0.255	16380	2:18:20 PM	0.257	-0.002
16380	2:19:53 PM	0.259	16440	2:19:20 PM	0.253	0.002
16440	2:20:53 PM	0.251	16500	2:20:20 PM	0.248	0
16500	2:21:53 PM	0.248	16560	2:21:20 PM	0.243	-0.007
16560	2:22:53 PM	0.25	16620	2:22:20 PM	0.238	-0.018
16620	2:23:53 PM	0.256	16680	2:23:20 PM	0.229	-0.024

16680	2:24:53 PM	0.253	16740	2:24:20 PM	0.233	-0.017
16740	2:25:53 PM	0.25	16800	2:25:20 PM	0.229	-0.019
16800	2:26:53 PM	0.248	16860	2:26:20 PM	0.224	-0.021
16860	2:27:53 PM	0.245	16920	2:27:20 PM	0.237	-0.007
16920	2:28:53 PM	0.244	16980	2:28:20 PM	0.242	-0.004
16980	2:29:53 PM	0.246	17040	2:29:20 PM	0.246	0.001
17040	2:30:53 PM	0.245	17100	2:30:20 PM	0.249	0.008
17100	2:31:53 PM	0.241	17160	2:31:20 PM	0.25	0.004
17160	2:32:53 PM	0.246	17220	2:32:20 PM	0.256	0.019
17220	2:33:53 PM	0.237	17280	2:33:20 PM	0.26	0.02
17280	2:34:53 PM	0.24	17340	2:34:20 PM	0.261	0.016
17340	2:35:53 PM	0.245	17400	2:35:20 PM	0.265	0.021
17400	2:36:53 PM	0.244	17460	2:36:20 PM	0.267	0.022
17460	2:37:53 PM	0.245	17520	2:37:20 PM	0.274	0.026
17520	2:38:53 PM	0.248	17580	2:38:20 PM	0.272	0.022
17580	2:39:53 PM	0.25	17640	2:39:20 PM	0.272	0.021
17640	2:40:53 PM	0.251	17700	2:40:20 PM	0.285	0.04
17700	2:41:53 PM	0.245	17760	2:41:20 PM	0.294	0.06
17760	2:42:53 PM	0.234	17820	2:42:20 PM	0.28	0.051
17820	2:43:53 PM	0.229	17880	2:43:20 PM	0.287	0.058
17880	2:44:53 PM	0.229	17940	2:44:20 PM	0.305	0.077
17940	2:45:53 PM	0.228	18000	2:45:20 PM	0.301	0.075
18000	2:46:53 PM	0.226	18060	2:46:20 PM	0.292	0.08
18060	2:47:53 PM	0.212	18120	2:47:20 PM	0.321	0.109
18120	2:48:53 PM	0.212	18180	2:48:20 PM	0.313	0.081
18180	2:49:53 PM	0.232	18240	2:49:20 PM	0.314	0.08
18240	2:50:53 PM	0.234	18300	2:50:20 PM	0.309	0.082
18300	2:51:53 PM	0.227	18360	2:51:20 PM	0.302	0.068
18360	2:52:53 PM	0.234	18420	2:52:20 PM	0.288	0.055
18420	2:53:53 PM	0.233	18480	2:53:20 PM	0.272	0.033
18480	2:54:53 PM	0.239	18540	2:54:20 PM	0.276	0.035
18540	2:55:53 PM	0.241	18600	2:55:20 PM	0.278	0.042
18600	2:56:53 PM	0.236	18660	2:56:20 PM	0.276	0.028
18660	2:57:53 PM	0.248	18720	2:57:20 PM	0.274	0.031
18720	2:58:53 PM	0.243	18780	2:58:20 PM	0.278	0.04
18780	2:59:53 PM	0.238	18840	2:59:20 PM	0.281	0.034
18840	3:00:53 PM	0.247	18900	3:00:20 PM	0.283	0.027
18900	3:01:53 PM	0.256	18960	3:01:20 PM	0.285	0.017
18960	3:02:53 PM	0.268	19020	3:02:20 PM	0.287	0.03
19020	3:03:53 PM	0.257	19080	3:03:20 PM	0.292	0.026
19080	3:04:53 PM	0.266	19140	3:04:20 PM	0.3	0.039
19140	3:05:53 PM	0.261	19200	3:05:20 PM	0.298	0.031
19200	3:06:53 PM	0.267	19260	3:06:20 PM	0.292	0.049
19260	3:07:53 PM	0.243	19320	3:07:20 PM	0.29	0.064
19320	3:08:53 PM	0.226		3:08:20 PM		

Upwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530120611
Firmware Version	2.9
Calibration Date	2/13/2012
Test Name	MANUAL_002
Test Start Time	9:45:00 AM
Test Start Date	3/27/2015
Test Length [D:H:M]	0:03:13
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.062
Mass Minimum [mg/m3]	0.022
Mass Maximum [mg/m3]	0.25
Mass TWA [mg/m3]	0.025
Photometric User Cal	1.18
Flow User Cal	1.18
Errors	
Number of Samples	193

Elapsed Time [s]	9:45:00 AM	Mass [mg/m3]	Alarms	Errors
60	9:46:00 AM	0.123		
120	9:47:00 AM	0.12		
180	9:48:00 AM	0.054		
240	9:49:00 AM	0.035		
300	9:50:00 AM	0.035		
360	9:51:00 AM	0.036		
420	9:52:00 AM	0.037		
480	9:53:00 AM	0.037		
540	9:54:00 AM	0.04		
600	9:55:00 AM	0.04		
660	9:56:00 AM	0.034		
720	9:57:00 AM	0.129		
780	9:58:00 AM	0.25		
840	9:59:00 AM	0.077		
900	10:00:00 AM	0.07		
960	10:01:00 AM	0.062		
1020	10:02:00 AM	0.053		
1080	10:03:00 AM	0.048		
1140	10:04:00 AM	0.041		
1200	10:05:00 AM	0.035		
1260	10:06:00 AM	0.03		

Downwind

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530123204
Firmware Version	2.1
Calibration Date	8/10/2012
Test Name	MANUAL_003
Test Start Time	9:44:16 AM
Test Start Date	3/27/2015
Test Length [D:H:M]	0:03:20
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.159
Mass Minimum [mg/m3]	0.108
Mass Maximum [mg/m3]	0.282
Mass TWA [mg/m3]	0.066
Photometric User Cal	0.94
Flow User Cal	0.94
Errors	
Number of Samples	200

Elapsed Time [s]	9:44:16 AM	Mass [mg/m3]	Alarms	Errors	**Difference**
60	9:45:16 AM	0.137			0.014
120	9:46:16 AM	0.15			0.03
180	9:47:16 AM	0.166			0.112
240	9:48:16 AM	0.154			0.119
300	9:49:16 AM	0.15			0.115
360	9:50:16 AM	0.153			0.117
420	9:51:16 AM	0.127			0.09
480	9:52:16 AM	0.12			0.083
540	9:53:16 AM	0.122			0.082
600	9:54:16 AM	0.127			0.087
660	9:55:16 AM	0.124			0.09
720	9:56:16 AM	0.132			0.003
780	9:57:16 AM	0.128			-0.122
840	9:58:16 AM	0.137			0.06
900	9:59:16 AM	0.126			0.056
960	10:00:16 AM	0.121			0.059
1020	10:01:16 AM	0.116			0.063
1080	10:02:16 AM	0.115			0.067
1140	10:03:16 AM	0.114			0.073
1200	10:04:16 AM	0.11			0.075
1260	10:05:16 AM	0.109			0.079
1320	10:06:16 AM	0.108			0.078

1320	10:07:00 AM	0.03	1380	10:07:16 AM	0.128	0.092
1380	10:08:00 AM	0.036	1440	10:08:16 AM	0.127	0.091
1440	10:09:00 AM	0.036	1500	10:09:16 AM	0.128	0.097
1500	10:10:00 AM	0.031	1560	10:10:16 AM	0.133	0.105
1560	10:11:00 AM	0.028	1620	10:11:16 AM	0.125	0.098
1620	10:12:00 AM	0.027	1680	10:12:16 AM	0.124	0.096
1680	10:13:00 AM	0.028	1740	10:13:16 AM	0.128	0.098
1740	10:14:00 AM	0.03	1800	10:14:16 AM	0.125	0.098
1800	10:15:00 AM	0.027	1860	10:15:16 AM	0.121	0.077
1860	10:16:00 AM	0.044	1920	10:16:16 AM	0.125	0.087
1920	10:17:00 AM	0.038	1980	10:17:16 AM	0.14	0.109
1980	10:18:00 AM	0.031	2040	10:18:16 AM	0.138	0.108
2040	10:19:00 AM	0.03	2100	10:19:16 AM	0.139	0.112
2100	10:20:00 AM	0.027	2160	10:20:16 AM	0.134	0.109
2160	10:21:00 AM	0.025	2220	10:21:16 AM	0.136	0.111
2220	10:22:00 AM	0.025	2280	10:22:16 AM	0.139	0.114
2280	10:23:00 AM	0.025	2340	10:23:16 AM	0.134	0.11
2340	10:24:00 AM	0.024	2400	10:24:16 AM	0.136	0.112
2400	10:25:00 AM	0.024	2460	10:25:16 AM	0.135	0.111
2460	10:26:00 AM	0.024	2520	10:26:16 AM	0.132	0.11
2520	10:27:00 AM	0.022	2580	10:27:16 AM	0.131	0.108
2580	10:28:00 AM	0.023	2640	10:28:16 AM	0.126	0.091
2640	10:29:00 AM	0.035	2700	10:29:16 AM	0.137	0.097
2700	10:30:00 AM	0.04	2760	10:30:16 AM	0.136	0.097
2760	10:31:00 AM	0.039	2820	10:31:16 AM	0.129	0.084
2820	10:32:00 AM	0.045	2880	10:32:16 AM	0.123	0.088
2880	10:33:00 AM	0.035	2940	10:33:16 AM	0.124	0.092
2940	10:34:00 AM	0.032	3000	10:34:16 AM	0.123	0.095
3000	10:35:00 AM	0.028	3060	10:35:16 AM	0.149	0.122
3060	10:36:00 AM	0.027	3120	10:36:16 AM	0.159	0.133
3120	10:37:00 AM	0.026	3180	10:37:16 AM	0.139	0.115
3180	10:38:00 AM	0.024	3240	10:38:16 AM	0.137	0.111
3240	10:39:00 AM	0.026	3300	10:39:16 AM	0.14	0.108
3300	10:40:00 AM	0.032	3360	10:40:16 AM	0.135	0.107
3360	10:41:00 AM	0.028	3420	10:41:16 AM	0.126	0.097
3420	10:42:00 AM	0.029	3480	10:42:16 AM	0.144	0.093
3480	10:43:00 AM	0.051	3540	10:43:16 AM	0.136	0.093
3540	10:44:00 AM	0.043	3600	10:44:16 AM	0.137	0.101
3600	10:45:00 AM	0.036	3660	10:45:16 AM	0.133	0.1
3660	10:46:00 AM	0.033	3720	10:46:16 AM	0.153	0.119
3720	10:47:00 AM	0.034	3780	10:47:16 AM	0.167	0.132
3780	10:48:00 AM	0.035	3840	10:48:16 AM	0.152	0.117
3840	10:49:00 AM	0.035	3900	10:49:16 AM	0.142	0.104
3900	10:50:00 AM	0.038	3960	10:50:16 AM	0.137	0.097

3960	10:51:00 AM	0.04		4020	10:51:16 AM	0.149	0.107
4020	10:52:00 AM	0.042		4080	10:52:16 AM	0.15	0.108
4080	10:53:00 AM	0.042		4140	10:53:16 AM	0.154	0.111
4140	10:54:00 AM	0.043		4200	10:54:16 AM	0.157	0.11
4200	10:55:00 AM	0.047		4260	10:55:16 AM	0.158	0.109
4260	10:56:00 AM	0.049		4320	10:56:16 AM	0.156	0.099
4320	10:57:00 AM	0.057		4380	10:57:16 AM	0.155	0.093
4380	10:58:00 AM	0.062		4440	10:58:16 AM	0.159	0.091
4440	10:59:00 AM	0.068		4500	10:59:16 AM	0.157	0.088
4500	11:00:00 AM	0.069		4560	11:00:16 AM	0.165	0.097
4560	11:01:00 AM	0.068		4620	11:01:16 AM	0.17	0.104
4620	11:02:00 AM	0.066		4680	11:02:16 AM	0.175	0.11
4680	11:03:00 AM	0.065		4740	11:03:16 AM	0.167	0.103
4740	11:04:00 AM	0.064		4800	11:04:16 AM	0.165	0.089
4800	11:05:00 AM	0.076		4860	11:05:16 AM	0.167	0.082
4860	11:06:00 AM	0.085		4920	11:06:16 AM	0.191	0.11
4920	11:07:00 AM	0.081		4980	11:07:16 AM	0.177	0.098
4980	11:08:00 AM	0.079		5040	11:08:16 AM	0.17	0.096
5040	11:09:00 AM	0.074		5100	11:09:16 AM	0.171	0.092
5100	11:10:00 AM	0.079		5160	11:10:16 AM	0.172	0.085
5160	11:11:00 AM	0.087		5220	11:11:16 AM	0.171	0.082
5220	11:12:00 AM	0.089		5280	11:12:16 AM	0.169	0.081
5280	11:13:00 AM	0.088		5340	11:13:16 AM	0.169	0.08
5340	11:14:00 AM	0.089		5400	11:14:16 AM	0.17	0.07
5400	11:15:00 AM	0.1		5460	11:15:16 AM	0.17	0.081
5460	11:16:00 AM	0.089		5520	11:16:16 AM	0.177	0.094
5520	11:17:00 AM	0.083		5580	11:17:16 AM	0.18	0.104
5580	11:18:00 AM	0.076		5640	11:18:16 AM	0.176	0.104
5640	11:19:00 AM	0.072		5700	11:19:16 AM	0.167	0.095
5700	11:20:00 AM	0.072		5760	11:20:16 AM	0.174	0.1
5760	11:21:00 AM	0.074		5820	11:21:16 AM	0.172	0.102
5820	11:22:00 AM	0.07		5880	11:22:16 AM	0.163	0.093
5880	11:23:00 AM	0.07		5940	11:23:16 AM	0.153	0.088
5940	11:24:00 AM	0.065		6000	11:24:16 AM	0.162	0.077
6000	11:25:00 AM	0.085		6060	11:25:16 AM	0.168	0.076
6060	11:26:00 AM	0.092		6120	11:26:16 AM	0.165	0.072
6120	11:27:00 AM	0.093		6180	11:27:16 AM	0.163	0.072
6180	11:28:00 AM	0.091		6240	11:28:16 AM	0.162	0.073
6240	11:29:00 AM	0.089		6300	11:29:16 AM	0.162	0.067
6300	11:30:00 AM	0.095		6360	11:30:16 AM	0.162	0.065
6360	11:31:00 AM	0.097		6420	11:31:16 AM	0.158	0.066
6420	11:32:00 AM	0.092		6480	11:32:16 AM	0.159	0.072
6480	11:33:00 AM	0.087		6540	11:33:16 AM	0.175	0.088
6540	11:34:00 AM	0.087		6600	11:34:16 AM	0.168	0.091

6600	11:35:00 AM	0.077		6660	11:35:16 AM	0.171	0.097
6660	11:36:00 AM	0.074		6720	11:36:16 AM	0.175	0.105
6720	11:37:00 AM	0.07		6780	11:37:16 AM	0.165	0.094
6780	11:38:00 AM	0.071		6840	11:38:16 AM	0.21	0.142
6840	11:39:00 AM	0.068		6900	11:39:16 AM	0.228	0.152
6900	11:40:00 AM	0.076		6960	11:40:16 AM	0.207	0.131
6960	11:41:00 AM	0.076		7020	11:41:16 AM	0.195	0.119
7020	11:42:00 AM	0.076		7080	11:42:16 AM	0.19	0.119
7080	11:43:00 AM	0.071		7140	11:43:16 AM	0.18	0.103
7140	11:44:00 AM	0.077		7200	11:44:16 AM	0.172	0.087
7200	11:45:00 AM	0.085		7260	11:45:16 AM	0.17	0.092
7260	11:46:00 AM	0.078		7320	11:46:16 AM	0.282	0.208
7320	11:47:00 AM	0.074		7380	11:47:16 AM	0.242	0.158
7380	11:48:00 AM	0.084		7440	11:48:16 AM	0.208	0.117
7440	11:49:00 AM	0.091		7500	11:49:16 AM	0.212	0.123
7500	11:50:00 AM	0.089		7560	11:50:16 AM	0.212	0.123
7560	11:51:00 AM	0.089		7620	11:51:16 AM	0.195	0.113
7620	11:52:00 AM	0.082		7680	11:52:16 AM	0.2	0.121
7680	11:53:00 AM	0.079		7740	11:53:16 AM	0.194	0.121
7740	11:54:00 AM	0.073		7800	11:54:16 AM	0.178	0.107
7800	11:55:00 AM	0.071		7860	11:55:16 AM	0.166	0.101
7860	11:56:00 AM	0.065		7920	11:56:16 AM	0.161	0.096
7920	11:57:00 AM	0.065		7980	11:57:16 AM	0.159	0.1
7980	11:58:00 AM	0.059		8040	11:58:16 AM	0.151	0.089
8040	11:59:00 AM	0.062		8100	11:59:16 AM	0.15	0.091
8100	12:00:00 PM	0.059		8160	12:00:16 PM	0.147	0.07
8160	12:01:00 PM	0.077		8220	12:01:16 PM	0.146	0.076
8220	12:02:00 PM	0.07		8280	12:02:16 PM	0.151	0.088
8280	12:03:00 PM	0.063		8340	12:03:16 PM	0.157	0.099
8340	12:04:00 PM	0.058		8400	12:04:16 PM	0.16	0.106
8400	12:05:00 PM	0.054		8460	12:05:16 PM	0.151	0.101
8460	12:06:00 PM	0.05		8520	12:06:16 PM	0.143	0.095
8520	12:07:00 PM	0.048		8580	12:07:16 PM	0.14	0.092
8580	12:08:00 PM	0.048		8640	12:08:16 PM	0.138	0.093
8640	12:09:00 PM	0.045		8700	12:09:16 PM	0.135	0.09
8700	12:10:00 PM	0.045		8760	12:10:16 PM	0.137	0.092
8760	12:11:00 PM	0.045		8820	12:11:16 PM	0.135	0.084
8820	12:12:00 PM	0.051		8880	12:12:16 PM	0.136	0.076
8880	12:13:00 PM	0.06		8940	12:13:16 PM	0.139	0.071
8940	12:14:00 PM	0.068		9000	12:14:16 PM	0.152	0.092
9000	12:15:00 PM	0.06		9060	12:15:16 PM	0.152	0.094
9060	12:16:00 PM	0.058		9120	12:16:16 PM	0.152	0.096
9120	12:17:00 PM	0.056		9180	12:17:16 PM	0.152	0.095
9180	12:18:00 PM	0.057		9240	12:18:16 PM	0.152	0.097

9240	12:19:00 PM	0.055
9300	12:20:00 PM	0.062
9360	12:21:00 PM	0.064
9420	12:22:00 PM	0.065
9480	12:23:00 PM	0.068
9540	12:24:00 PM	0.065
9600	12:25:00 PM	0.064
9660	12:26:00 PM	0.062
9720	12:27:00 PM	0.063
9780	12:28:00 PM	0.058
9840	12:29:00 PM	0.06
9900	12:30:00 PM	0.058
9960	12:31:00 PM	0.06
10020	12:32:00 PM	0.063
10080	12:33:00 PM	0.062
10140	12:34:00 PM	0.066
10200	12:35:00 PM	0.069
10260	12:36:00 PM	0.079
10320	12:37:00 PM	0.089
10380	12:38:00 PM	0.098
10440	12:39:00 PM	0.095
10500	12:40:00 PM	0.094
10560	12:41:00 PM	0.092
10620	12:42:00 PM	0.091
10680	12:43:00 PM	0.089
10740	12:44:00 PM	0.084
10800	12:45:00 PM	0.086
10860	12:46:00 PM	0.082
10920	12:47:00 PM	0.083
10980	12:48:00 PM	0.079
11040	12:49:00 PM	0.081
11100	12:50:00 PM	0.089
11160	12:51:00 PM	0.082
11220	12:52:00 PM	0.079
11280	12:53:00 PM	0.074
11340	12:54:00 PM	0.073
11400	12:55:00 PM	0.073
11460	12:56:00 PM	0.071
11520	12:57:00 PM	0.071
11580	12:58:00 PM	0.068
	12:59:00 PM	
	1:00:00 PM	
	1:01:00 PM	
	1:02:00 PM	

9300	12:19:16 PM	0.152	0.09
9360	12:20:16 PM	0.154	0.09
9420	12:21:16 PM	0.154	0.089
9480	12:22:16 PM	0.157	0.089
9540	12:23:16 PM	0.162	0.097
9600	12:24:16 PM	0.167	0.103
9660	12:25:16 PM	0.17	0.108
9720	12:26:16 PM	0.172	0.109
9780	12:27:16 PM	0.176	0.118
9840	12:28:16 PM	0.182	0.122
9900	12:29:16 PM	0.186	0.128
9960	12:30:16 PM	0.184	0.124
10020	12:31:16 PM	0.188	0.125
10080	12:32:16 PM	0.186	0.124
10140	12:33:16 PM	0.187	0.121
10200	12:34:16 PM	0.179	0.11
10260	12:35:16 PM	0.18	0.101
10320	12:36:16 PM	0.183	0.094
10380	12:37:16 PM	0.185	0.087
10440	12:38:16 PM	0.182	0.087
10500	12:39:16 PM	0.197	0.103
10560	12:40:16 PM	0.187	0.095
10620	12:41:16 PM	0.18	0.089
10680	12:42:16 PM	0.184	0.095
10740	12:43:16 PM	0.18	0.096
10800	12:44:16 PM	0.174	0.088
10860	12:45:16 PM	0.172	0.09
10920	12:46:16 PM	0.174	0.091
10980	12:47:16 PM	0.173	0.094
11040	12:48:16 PM	0.184	0.103
11100	12:49:16 PM	0.188	0.099
11160	12:50:16 PM	0.192	0.11
11220	12:51:16 PM	0.191	0.112
11280	12:52:16 PM	0.187	0.113
11340	12:53:16 PM	0.186	0.113
11400	12:54:16 PM	0.179	0.106
11460	12:55:16 PM	0.179	0.108
11520	12:56:16 PM	0.171	0.1
11580	12:57:16 PM	0.17	0.102
11640	12:58:16 PM	0.177	0.177
11700	12:59:16 PM	0.173	0.173
11760	1:00:16 PM	0.168	0.168
11820	1:01:16 PM	0.169	0.169
11880	1:02:16 PM	0.176	0.176

1:03:00 PM	11940	1:03:16 PM	0.192	0.192
1:04:00 PM	12000	1:04:16 PM	0.197	0.197
1:05:00 PM				

Appendix J

Indoor Air Survey Forms

2009 Indoor Air Survy Forms

OSR – 3

IA-1 & SV-1

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jesse Lloyd Date/Time Prepared 11-17-09

Preparer's Affiliation AECOM Environment Phone No. 607-277-5716

Purpose of Investigation IA/SV investigation of a Former MGP site

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Kvedaras First Name: Ray

Address: 222 Maspeth Ave., Brooklyn, NY

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location 10-15 Age of Occupants Of working age

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: Hillcoat First Name: David

Address: 215 Moore St., Brooklyn, NY

County: Kings

Home Phone: Unknown Office Phone: Unknown

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential (Industrial) School Commercial/Multi-use
Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: Non-Residential

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) Waste transfer and recycling facility

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 2 Building age Unknown

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Floors are connected by a staircase located outside in an alley

Airflow near source

Air flow in the locker room (sample area) is between the restroom and the electric closet. Air may flow between these rooms under the door or through electric conduits running along the ceiling.

Outdoor air infiltration

There is a door that leads to an outdoor alley. Air is able flow in around the door.

Infiltration into air ducts

No air ducts present

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other No basement
c. Basement floor: 1st Floor	concrete	dirt	stone	other _____
d. Basement floor: 1st Floor	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other Not Visable
g. Foundation walls:	unsealed	sealed	sealed with Not visable	
h. The basement is:	wet	damp	dry	moldy NA
i. The basement is:	finished	unfinished	partially finished	NA
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: _____(feet) unknown

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

There is a utility conduit in the locker room floor that lead to the basement

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other Central Air

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

No air ducts visable.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Locker room, restroom and electric closet
2nd Floor	Offices
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / N When & Type? Unknown

i. Have cosmetic products been used recently? Y / N When & Type? Unknown

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? In the locker room about 6 months ago

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? (Y) / N When & Type? There are air fresheners in the bathroom attached to the locker room, type unknown

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y (N) If yes, where vented? _____

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: A moth ball like odor was observed

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? liquid wrench was observed in the garage area

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
No
(Unknown)

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation: NA
Is the system active or passive? Active/Passive

Water used to wash the trucks is from a drilled well.

9. WATER AND SEWAGE

Water Supply: (Public Water) (Drilled Well) Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Not Recomended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N - NA

d. Relocation package provided and explained to residents? Y / N - NA

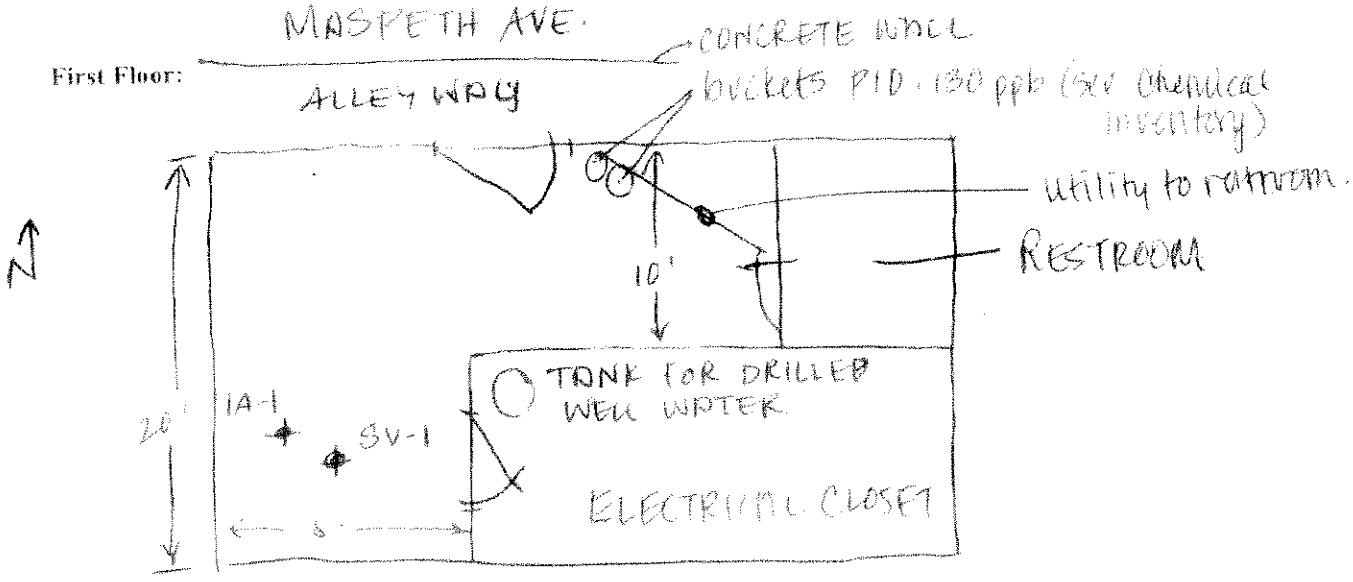
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT PRESENT.

First Floor:



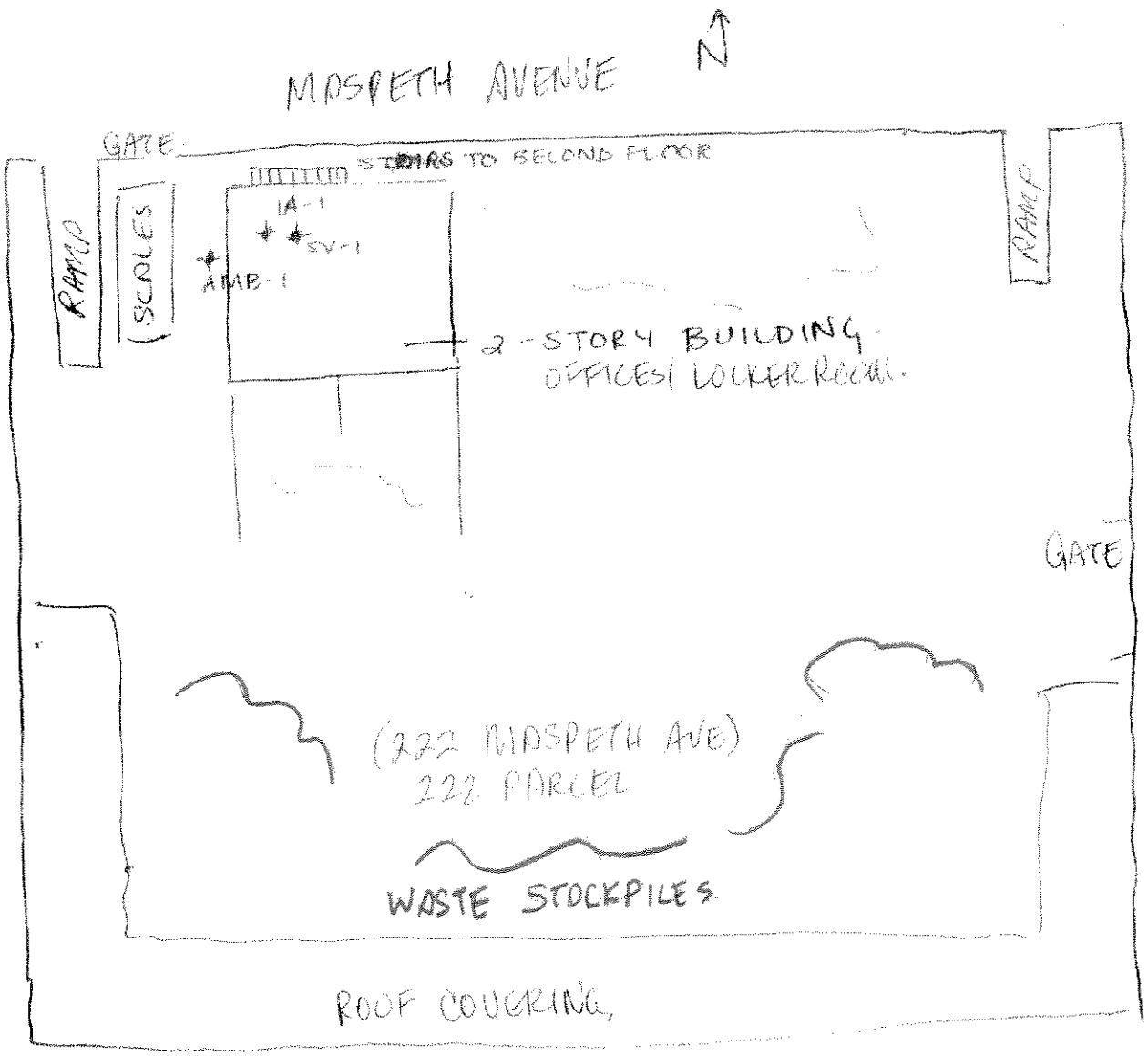
ROOM HAS SWEET MOTHBALL-LIKE SMELL
ROOM PID READING 0-28 ppb

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

(NOT TO SCALE).



23 = WASTE/DEBRIS STOCKPILES

NOTE: ~~OPEN ROOF TO MAIN YARD~~

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea PPB Rea

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
222 Maspeth Av	2 Sherwin Williams Quickdry Enamel	5gal	good	No Ingredients, Say 596 gm/L total VOCs	130ppb	X

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

OSR – 3

IA-2 & SV-2

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Jesse Lloyd Date/Time Prepared 11-17-09

Preparer's Affiliation AECOM Environment Phone No. 607-277-5716

Purpose of Investigation SV/IA investigation of a Former MGP site

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Kvedaras First Name: Ray

Address: 252 Maspeth Ave. Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location 10-15 Age of Occupants OF working Age

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: Bordone First Name: Jack (Manhattan Demolition)

Address: 8-16 43rd Ave., Long Island City, New York 11101

County: Queens

Home Phone: Unknown Office Phone: Unknown

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other: Non-residential)

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) Waste transfer & recycling Facility

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors 2 Building age Unknown

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

The area IA-2 & SV-2 were take had a large garage door open during the sampling, air flow varied with wind velocity.

Airflow near source

Again, airflow varied with wind speed

Outdoor air infiltration

The room had a large garage door that is usually open

Infiltration into air ducts

No ducts were present

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick & cinder block
b. Basement type:	full	crawlspace	slab	other No basement
c. Basement floor:	concrete	dirt	stone	other N/A
d. Basement floor:	uncovered	covered	covered with N/A	
e. Concrete floor:	unsealed	sealed	sealed with N/A	
f. Foundation walls:	poured	block	stone	other N/A
g. Foundation walls:	unsealed	sealed	sealed with N/A	
h. The basement is:	wet	damp	dry	moldy – N/A
i. The basement is:	finished	unfinished	partially finished – N/A	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: _____(feet) – not known

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

– there is a floor drain approximately 10' From SV-2

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: assumed electric

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

NA

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Used for maintenance of equipment
2nd Floor	OFFices
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify heavy equipment

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? (Y) N Where & Type? Equipment Maintenance

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? Y / (N) When & Type?_____

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? NA Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: yes, see Comment on following page

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Solvent for Equipment Maintenance

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
No
(Unknown)

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

Comments:

At about 1000, an employee was observed fueling a fork lift with gasoline about 5Ft from IA2. The employee also spilled gas on the ground near IA2. PID reading near the spill was 24 ppm and was 500 ppb near the sample.

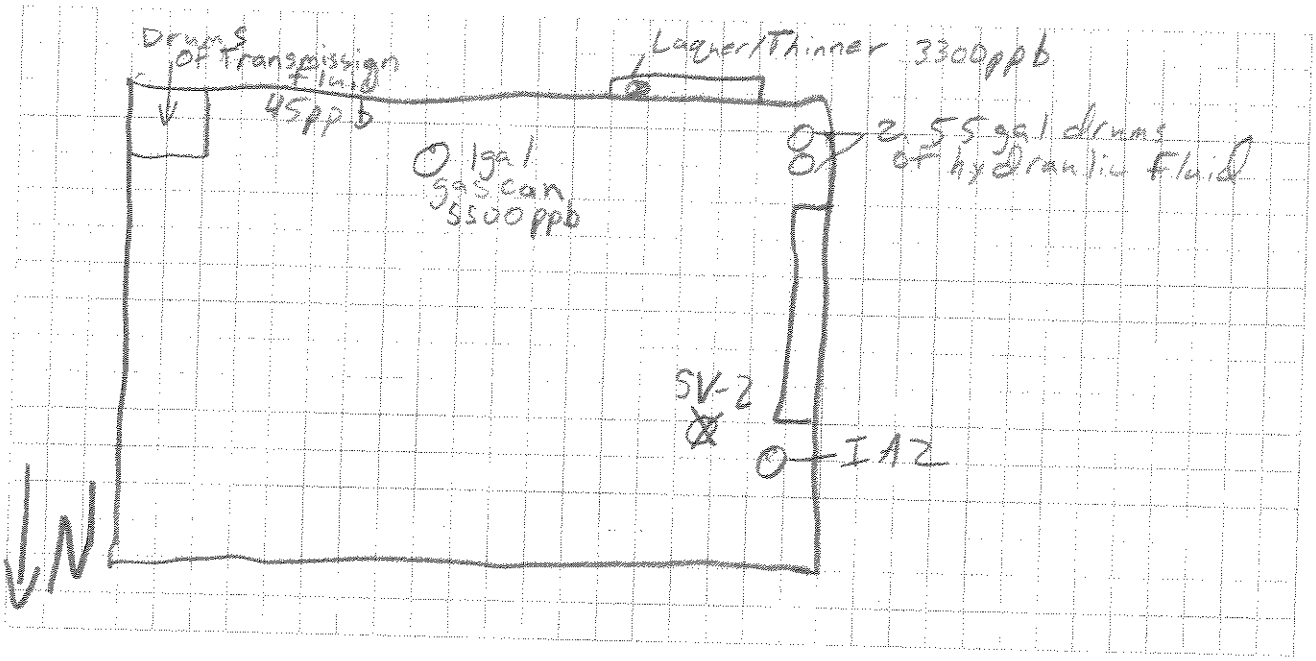
The 2, 5 gallon gasoline cans were then placed in garage area (the room where the samples were being taken) for storage. The cans were then placed elsewhere by an AECOM geologist

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: NA

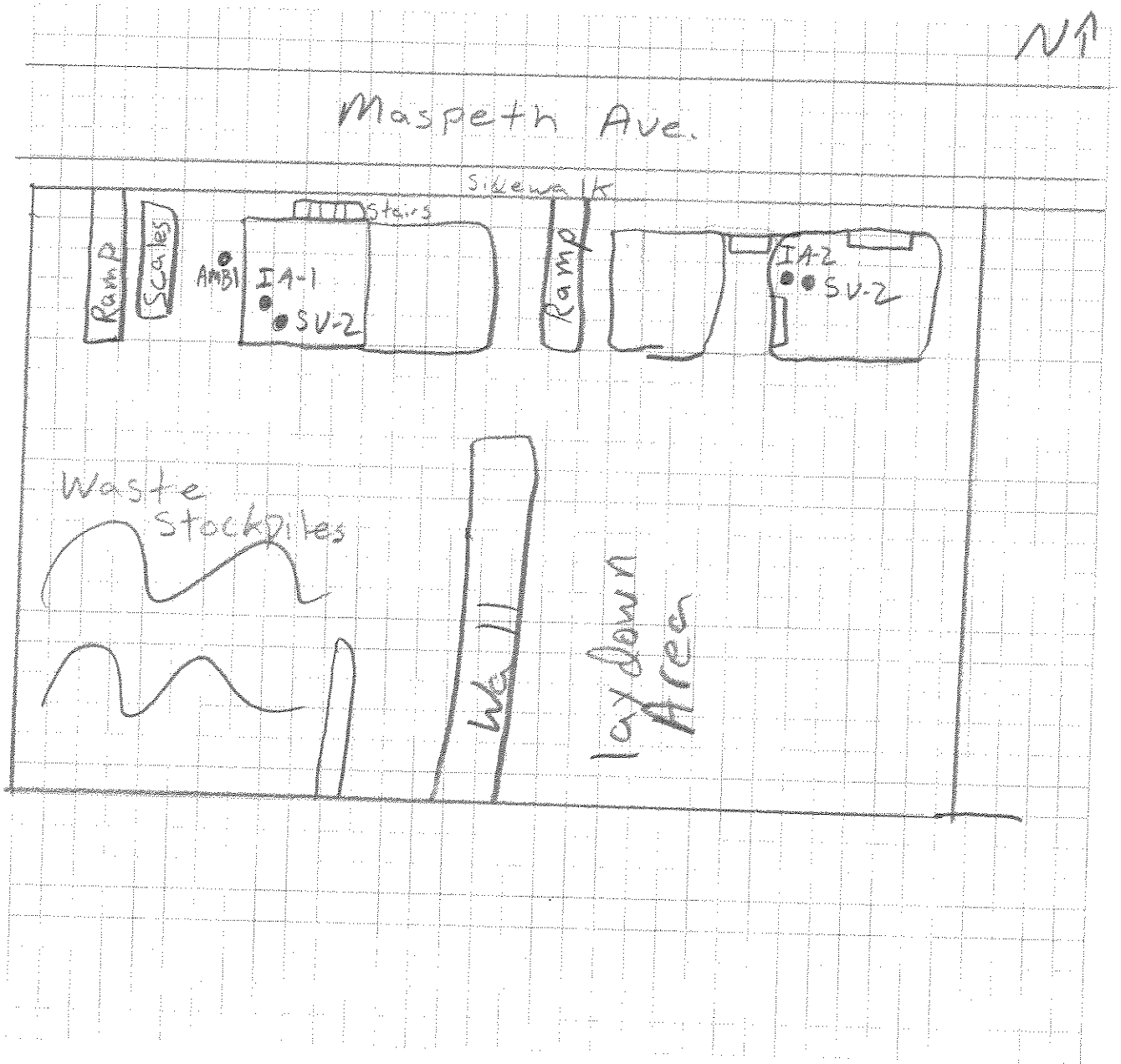
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Room where IAQ #s 1/2 were taken

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units) ppb	Photo** Y / N
	Transmission Fluid	3.5 qt drums	good	No VOCs	40	yes
	gasoline	1gal	good	BTEX	5500	no
	Lacquer thinner	1gal	Fair	No Ingredients	3500	yes
	hydraulic Fluid	3.5 qt drums	good	No VOCs	0	yes
	Liquid Wrench	1.20oz	Poor	1.2.4 trimethy benzene, Ethylbenzene Xylene, Naphthenic petro distillates	1220	no

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

nationalgrid

Ambient Air (Canister) Sample Collection Field Form

Project # 60133362-400 Consultant AECOM

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID AMB-1

Start Date/Time	11-17-09 / 0920	Vacuum gauge "zero" ("Hg)	Yes
End Date/Time	11-17-09 / 1652	Start Pressure ("Hg)	-30.0
Canister ID	3393	End Pressure ("Hg)	-4.0
Flow controller ID	NA	End pressure > "zero"?	N/A
		Sampling duration (intended)	8 hrs

Tubing type used NA Length of tubing NA cm Tubing volume NA cc

Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

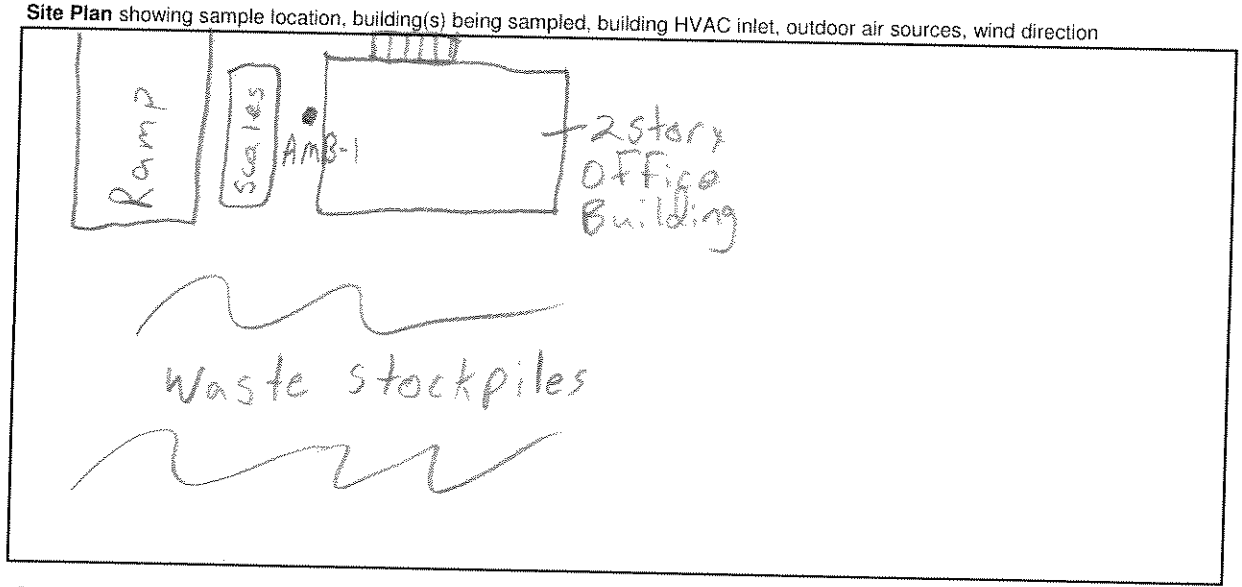
Weather Conditions at Start of Sampling:

Air temperature (°F)	47-54	Rainfall	No	Wind direction	NW to NE
Barometric pressure	30.2-30.3 in Hg	Relative humidity	NA	Wind speed (mph)	0-15

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

No substantial change in the weather over the past 24-48 hr. temperature From mid 40's to mid 50's.

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction



Comments:

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362-400
Project Name Equity Former MGP
Consultant AECOM
Collector Jesse Lloyd

Sample ID IA-1

Start Date/Time 11-17-07 / 0916
End Date/Time 11-17-07 / 1655
Canister ID 3413
Flow controller ID N/A
Associated ambient air sample ID AMB-1

Vacuum gauge "zero" ("Hg) YES
Start Pressure ("Hg) -31.0
End Pressure ("Hg) -5.0
End pressure > "zero"? N/A
Sampling duration (intended) 8 hrs
Associated sub-slab vapor sample ID SV-1

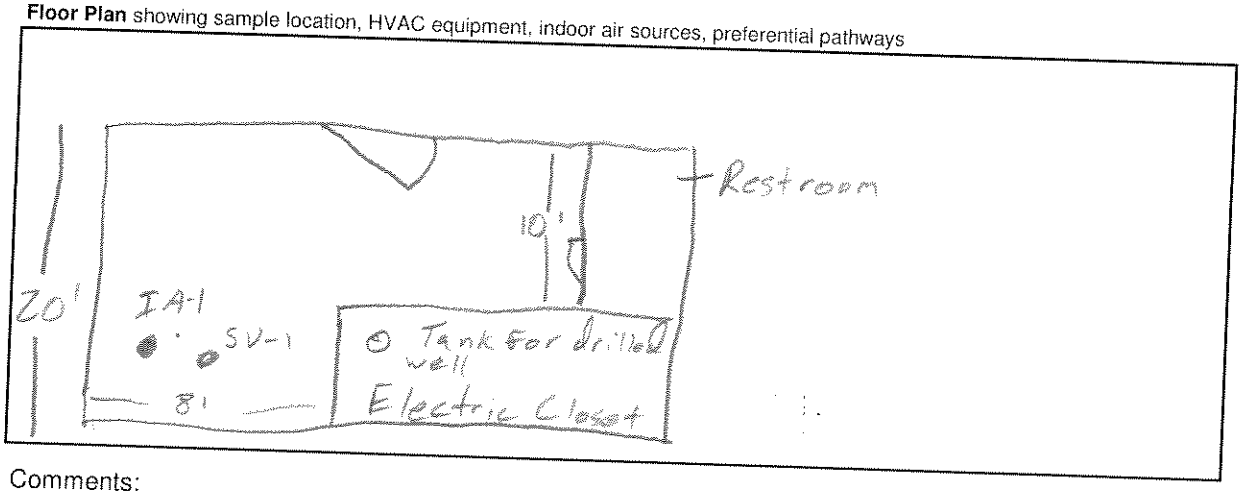
Tubing type used N/A Length of tubing N/A cm Tubing volume N/A cc
Volume purged N/A cc @ N/A min 1 to 3 volumes purged @ < 200cc/min? N/A

Weather Conditions at Start of Sampling:
Air temperature (°F) 47-54 Rainfall NO Wind direction N to NE
Barometric pressure 30.2-30.3 in Hg Relative humidity N/A Wind speed (mph) 0-15

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:
No substantial weather changes in past 24 to 48 hrs.

Indoor air temp (°F) _____ Indoor relative humidity (%) _____
Building Survey and Chemical Inventory Form Completed? _____ Photograph IDs _____

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways



Comments:

nationalgrid

Sub-slab Vapor (Canister) Sample Collection Field Form

Project # 60137362-400 Consultant AECOM

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID SV-1

Start Date/Time 11-17-09 / 0916 Vacuum gauge "zero" ("Hg) yes

End Date/Time 11-17-09 / 1656 Start Pressure ("Hg) -29.0

Canister ID 3394 End Pressure ("Hg) -6.12

Flow controller ID 09 End pressure > "zero"? no

Associated indoor air sample ID IA-1 Sampling duration (intended) 8 hr

Associated ambient air sample ID AMB-1

Tubing type used 2.5'x3/16"OD&2.5'x1/4"OD Length of tubing 75cm+75cm cm Tubing volume 135 cc

Volume purged 200 cc @ 1 min 1 to 3 volumes purged @ < 200cc/min? yes

Weather Conditions at Start of Sampling:

Air temperature (°F) 47-54 Rainfall no Wind direction W to NE

Barometric pressure 30.2-30.3 inHg Wind speed (mph) 0-15

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

No substantial changes in weather

Indoor air temp (°F) 63 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

See IA-1 Form

Comments:

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Indoor Air (Canister) Sample Collection Field Form

Project # 60137362-400
Project Name Equity Former MGP
Consultant AECOM
Collector Jesse Lloyd

Sample ID IA-2

Start Date/Time 11-17-09
End Date/Time 11-17-09
Canister ID 3421
Flow controller ID NA
Associated ambient air sample ID AMB-1

Vacuum gauge "zero" ("Hg) yes
Start Pressure ("Hg) -30.0
End Pressure ("Hg) -6.0
End pressure > "zero"? no
Sampling duration (intended) 8 hr
Associated sub-slab vapor sample ID SV-2

Tubing type used NA Length of tubing NA cm Tubing volume NA cc
Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

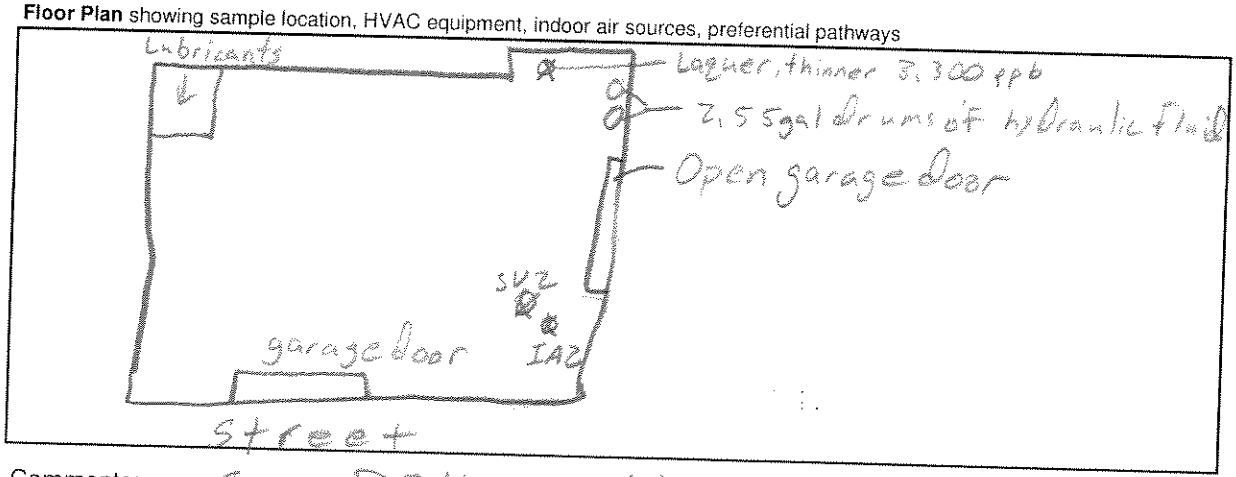
Weather Conditions at Start of Sampling:

Air temperature (°F) 47-54 Rainfall no Wind direction W to NE
Barometric pressure 30.2-30.3 Relative humidity NA Wind speed (mph) 0-15

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:
No substantial weather changes

Indoor air temp (°F) 47-54 Indoor relative humidity (%) NA
Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways



Comments: See DOH questionnaire

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Sub-slab Vapor (Canister) Sample Collection Field Form

Project # 60137362-400 Consultant AECOM

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID SV-2

Start Date/Time 11-12-09 / 09:14 Vacuum gauge "zero" ("Hg") Yes

End Date/Time 11-12-09 / 1600 Start Pressure ("Hg") -27.0

Canister ID 3418 End Pressure ("Hg") -4.5

Flow controller ID 114 End pressure > "zero"? No

Associated indoor air sample ID IA-2 Sampling duration (intended) 8 hr

Associated ambient air sample ID AMB-1

Tubing type used 2.5' of 3/8" ID 2.5' of 1/4" OD Length of tubing 75 cm + 175 cm Tubing volume 135 cc

Volume purged 200 cc @ 1 min 1 to 3 volumes purged @ < 200cc/min? Yes

Weather Conditions at Start of Sampling:

Air temperature (°F) 47-54 Rainfall No Wind direction NW to NE

Barometric pressure 30.2-30.3 Wind speed (mph) 0-15

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

No substantial weather changes

Indoor air temp (°F) Indoor relative humidity (%)

Building Survey and Chemical Inventory Form Completed? Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

See IA-2 Form

Comments:

2010 Indoor Air Survey Forms

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Jesse Lloyd Sampling Date/Time: 8-28-10/ 14:15 to 22:35

Preparer's Affiliation: AECOM Environmental Phone No: 607-351-9543

Purpose of Investigation: To evaluate the potential for residuals from the former manufactured gas plant operations to adversely impact the indoor air.

1. OCCUPANT: Cooper Tank Recycling

Interviewed: (Y) / N

Last Name: Kvedaras First Name: Ray

Address: 222 Maspeth Ave., Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location: 10-15 Age of Occupants: Of working age.

2. OWNER OR LANDLORD: (Check if same as occupant) **Manhattan Demolition**

Interviewed: Y / (N)

Last Name: Hillcoat First Name: David

Address: 215 Moore Street, Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: Not known

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other) Non-residential

If multiple units, how many? NA

If the property is commercial, type? Yes

Business Type(s): Waste transfer and recycling facility

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors: 2 Building age: Not known

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)
Caulking of cracks in the lower level of building completed in July 2010.

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors:
Floors are connected by a staircase located outside in an alley.

Airflow near source:
There is no isolated, specific source area. The smoke gently floated upwards in sampling area.

There is a large sump in located in the room attached to the locker room. The sump contains piping from a former water production well. The air flow near the sump gently floated upwards. PID readings at floor level in the sump area were 1200 to 1500 ppb (parts per billion). PID readings at the bottom of the sump were 3000 ppb.

Outdoor air infiltration:
There is a door that leads to an outdoor alley. Air is able to slightly flow around the door.

Infiltration into air ducts: One exhaust air duct observed at ceiling height. This unit was asked to remain off since 8/26/10 prior to and during the sampling event.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	(concrete)	stone	brick other:
b. Basement type:	full	crawlspace	slab	(other: No basement is present
c. Basement floor:	concrete	dirt	stone	(other: No basement is present
d. Basement floor:	uncovered	covered	covered with: NA	
e. Concrete floor:	(unsealed)	sealed	sealed with:	
f. Foundation walls:	(poured)	block	stone	other:
g. Foundation walls:	unsealed	sealed	sealed with: Painted	
h. The basement is:	wet	damp	dry	moldy: NA
i. The basement is:	finished	unfinished	partly finished: NA	
j. Sump present?	(Y) / N			
k. Water in sump?	Y / (N) / not applicable			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)

There is a large utility sump opening in the floor located in approximately 15 feet north of SV-1. The sump contains piping from a former water production well. PID readings at floor level in the sump area were 1200 to 1500 ppb (parts per billion). PID readings at the bottom of the sump were 3000 ppb.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood Stove	Outdoor wood boiler (Other: Central air

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor (Main Floor) Other:

Air conditioning: Central Air (Window units) Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

There are air ducts present for the air exhaust fan.

7. OCCUPANCY

Is basement /lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement: NA

1st Floor: Locker room, restroom, and electrical panel ~~closet~~.

2nd Floor: Offices

3rd Floor: NA

4th Floor: NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage? (e.g., lawnmower, atv, car) Y / N / (NA) Please specify Heavy earth moving equipment

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y / N When & Type? (Unknown)

i. Have cosmetic products been used recently? Y / N When & Type? (Unknown)

j. Has painting/staining been done in the last 6 months? Y (N) Where & When?

k. Is there new carpet, drapes or other textiles? Y (N) Where & When?

l. Have air fresheners been used recently? Y (N) When & Type?

m. Is there a kitchen exhaust fan? Y (N) If yes, where vented?

n. Is there a bathroom exhaust fan? Y (N) If yes, where vented?

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type?

Are there odors in the building? (Y) / N
There was a smell coming from the air freshener in the bathroom, there was no name or ingredients on the bottle.

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Several solvents were observed in the maintenance garage that were used for maintenance of the equipment.

If yes, are their clothes washed at work? Y (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y (N) Date of Installation:
Is the system active or passive? Active / Passive - NA

9. WATER AND SEWAGE

Water Supply: (Public Water) (Drilled Well) Driven Well Dug Well Other:
-the drilled well is used to provide water to wash trucks outside. This well is no longer in use. The current water supply is from the municipal water main.
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Relocation is not recommended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel -(NA)

c. Responsibility for costs associated with reimbursement explained? Y / N -(NA)

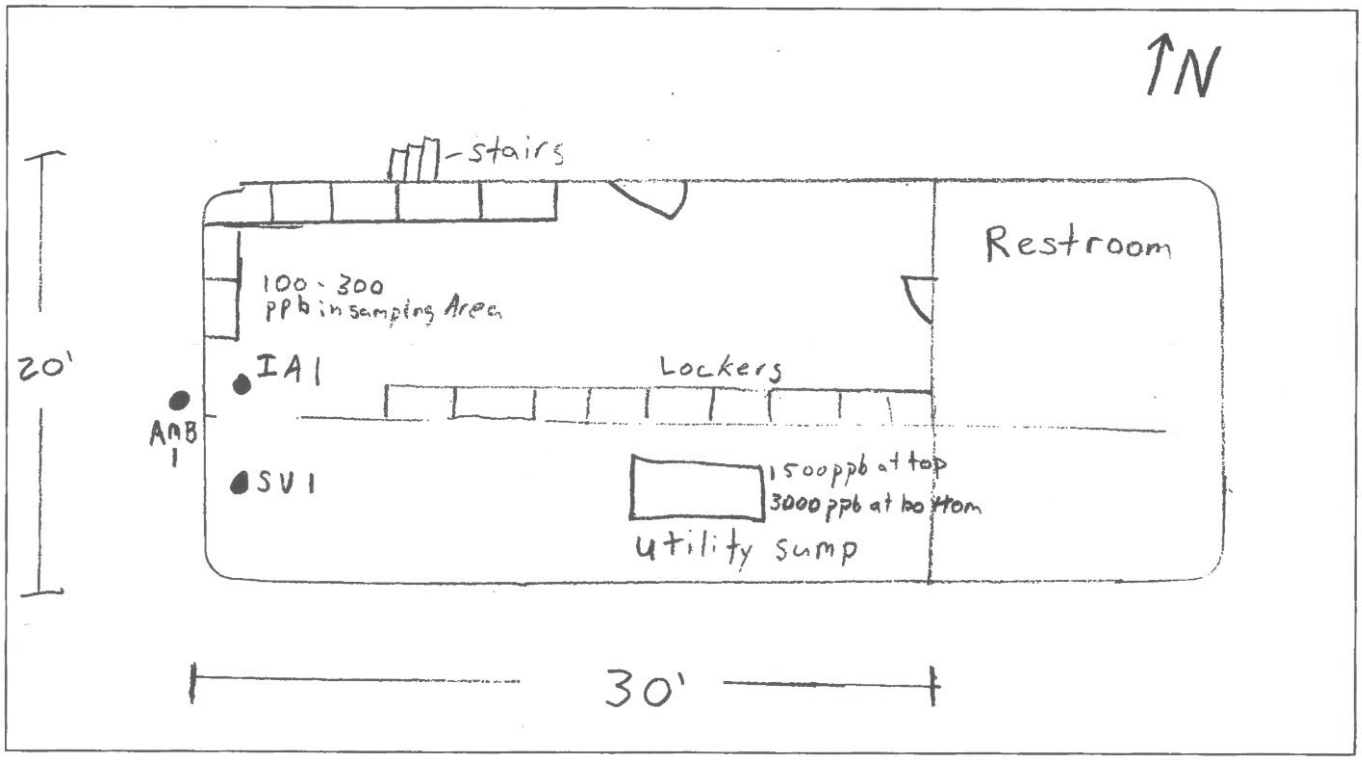
d. Relocation package provided and explained to residents? Y / N -(NA)

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter readings. If the building does not have a basement, please note.

Basement: NA

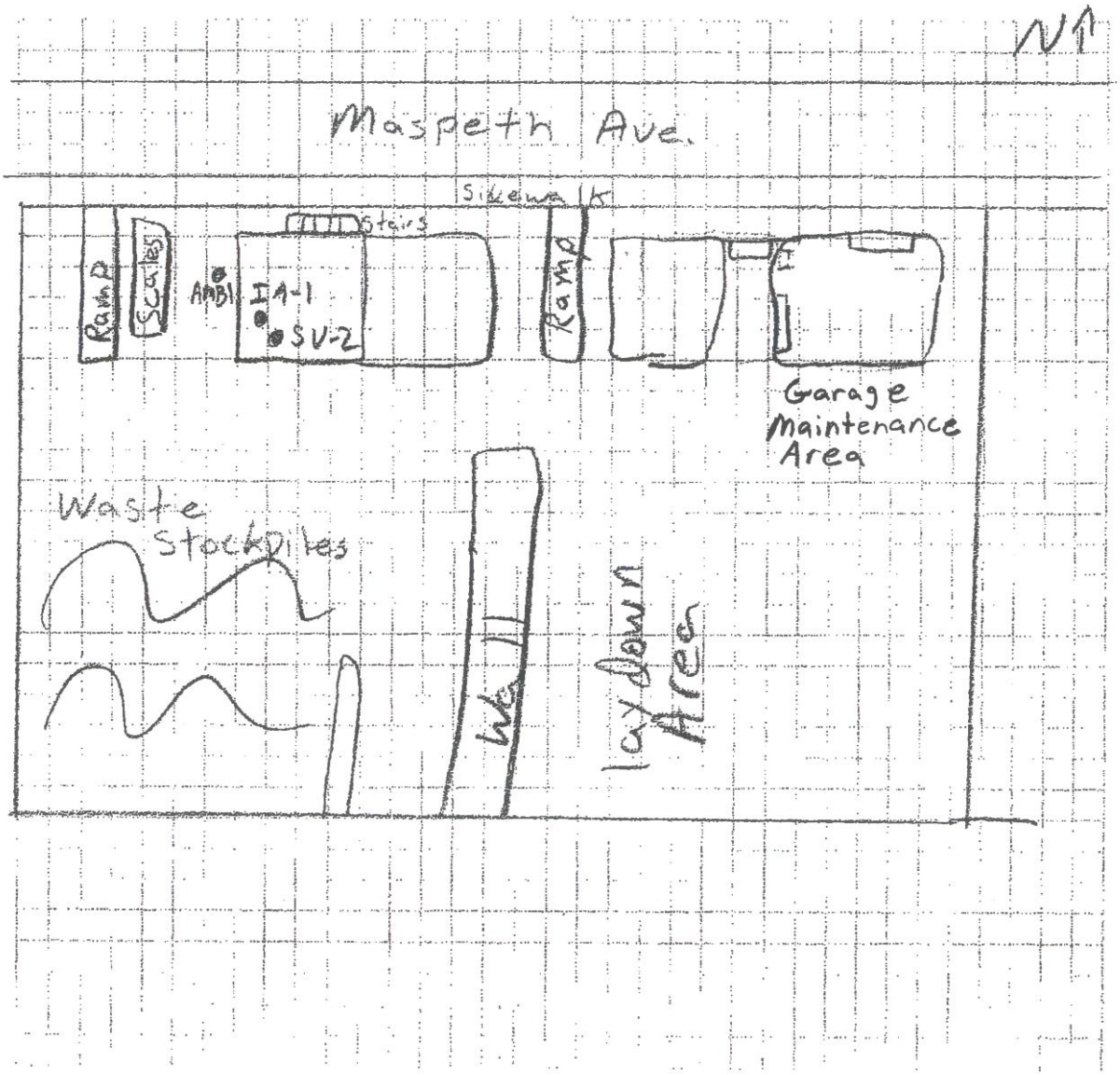
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 3000 ppb Rae

—Products containing VOCs were observed in the locker room area and were removed 48 hours prior to sampling.

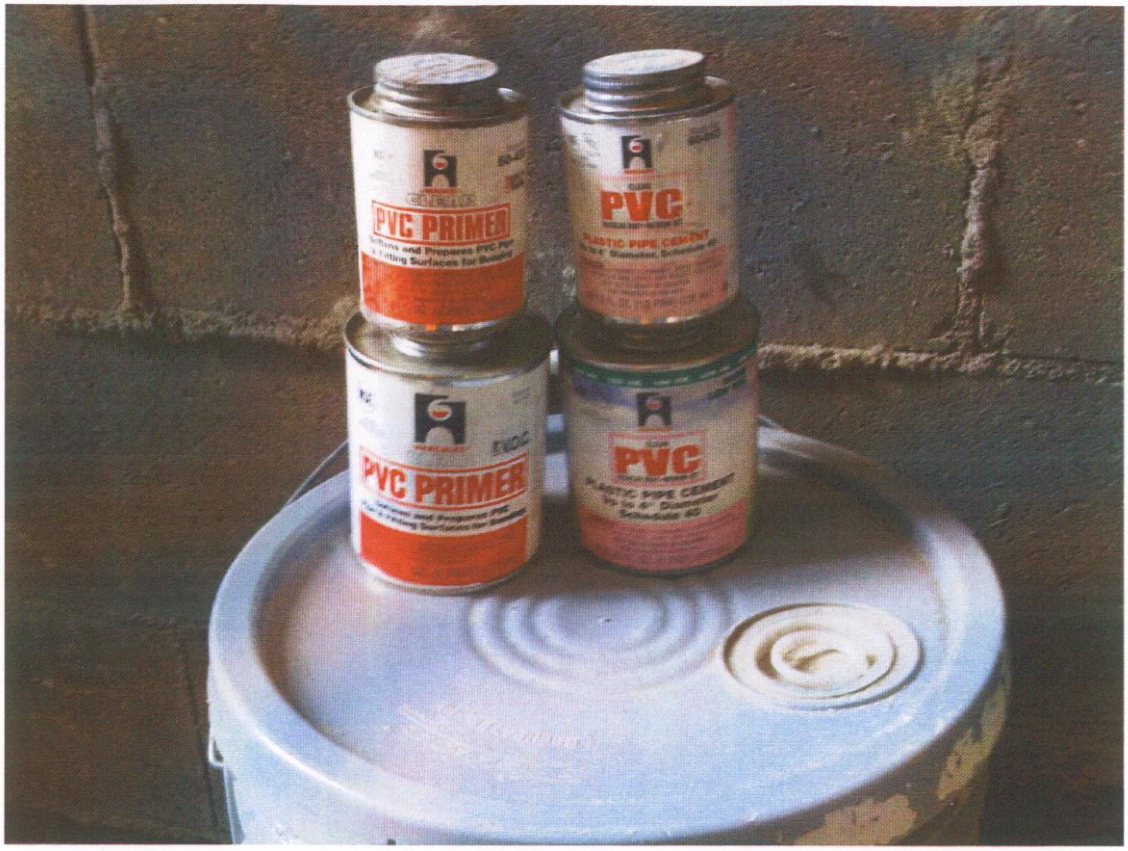
List specific products found in the residence that have the potential to affect indoor air quality

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N
Locker Room	Latex Paint	1-5 gallon	UO	Kaolin, titanium oxide, 2-propenoic acid, butyl ester, polymer with ethenyl acetate, water.	0.0 ppb	Y
Electrical Box Area	Asphalt Patch	1-1 gallon	UO	Asphalt, silica-crystalline, clay, water.	0.0 ppb	Y
Electrical Box Area	PVC primer	2-Small cans	UO	Tetrahydrofuran, methyl ethyl ketone, cyclohexanone, acetone.	0.0 ppb	Y
Electrical Box Area	PVC cement	2-Small cans	UO	Tetrahydrofuran, methyl ethyl ketone, cyclohexanone, acetone.	0.0 ppb	Y
Electrical Box Area	Spray Paint	1-Can	UO	Acetone, liquefied petroleum gas, toluene, naptha, xylene, magnesium silicate, mineral spirits, ethylbenzene, pigment black 7.	0.0 ppb	Y
Electrical Box Area	Spray Starch	1-Can	UO	Isobutane	0.0 ppb	Y
Electrical Box Area	Vibration resistance	1-Can	UO	Diacetone Alcohol	0.0 ppb	Y
Electrical Box Area	Thread Sealing Compound	1-Can	UO	No hazardous ingredients according to the U.S. OSHA Hazard Communication Standard 1910.1200.	0.0 ppb	Y

*Describe the conditions of the product containers as **Unopened (UO),** or **Deteriorated (D)**

Photographs of the **front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredients labels must be legible.

PVC primer and PVC cement cans



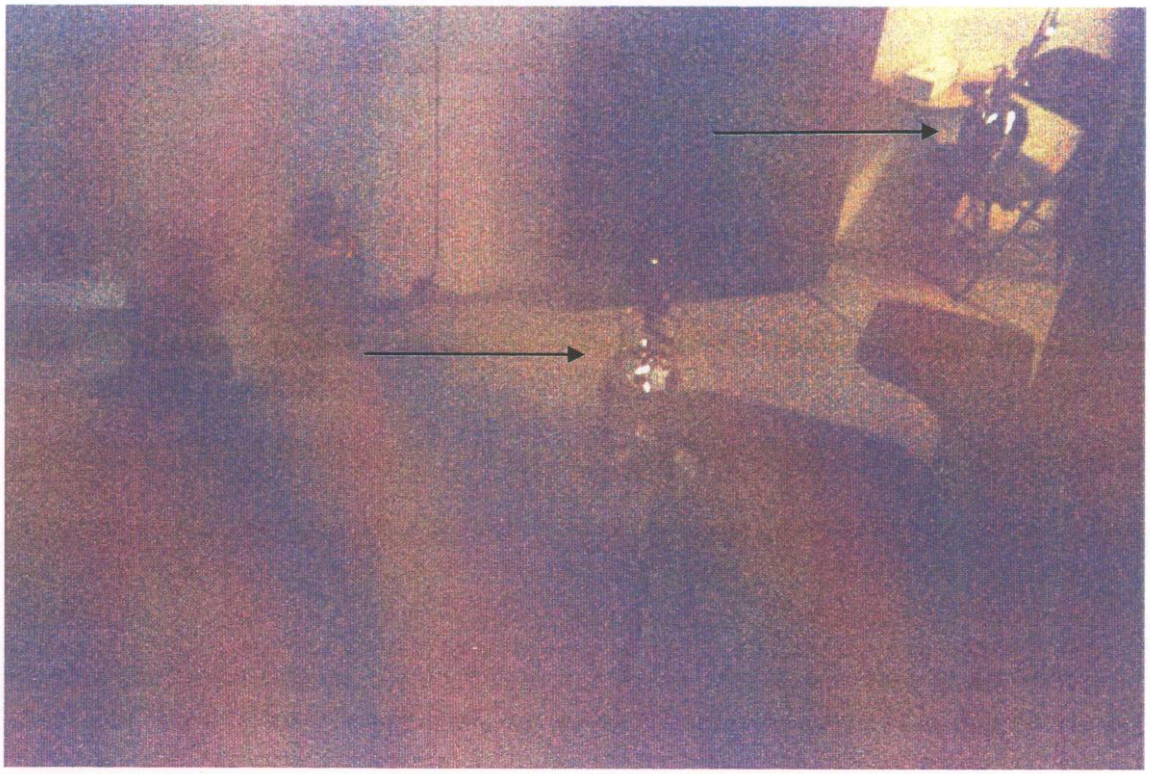
Latex pain, asphalt repair patch, vibration resistance can, and thread sealing compound



Spray paint can and spray starch can



Samples SV-1 and IA-1. Photo of ambient sampling location not provided.



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Ambient Air (Canister) Sample Collection Field Form

Project #	60137362 (AECOM #)	Consultant	AECOM Environment
Project Name	Equity Former MGP	Collector	Jesse Lloyd

Sample ID	AMB-1	Vacuum gauge "zero" ("Hg)	yes
Start Date/Time	8-28-10 / 1415	Start Pressure ("Hg)	-30
End Date/Time	8-28-10 / 2235	End Pressure ("Hg)	-8
Canister ID	3415	End pressure > "zero"?	No
Flow controller ID	01023	Sampling duration (intended)	8 hr

Tubing type used: NA Length of tubing: NA cm Tubing volume: NA cc

Volume purged: NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

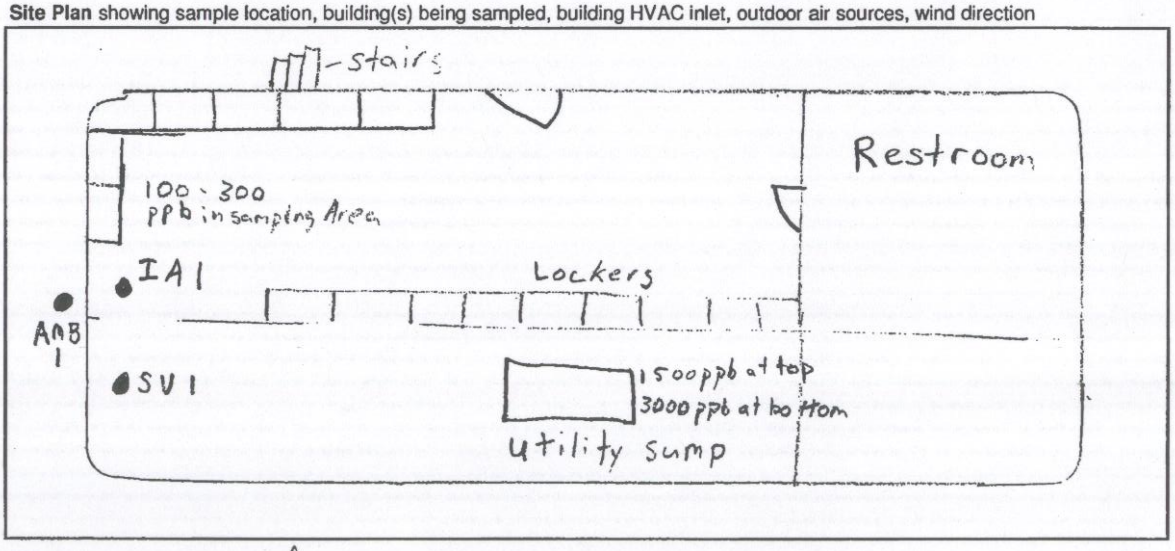
Weather Conditions at Start of Sampling:

Air temperature (°F)	75-80	Rainfall	No	Wind direction	North
Barometric pressure	30.2	Relative humidity	NA	Wind speed (mph)	0-5

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Barometric Pressure rose From 29.9-30.2 in Hg From 8-26 to Sampling time. Temp & wind were steady the two days before Sampling.

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction



Comments: Wind was gently From the north.

nationalgrid **Sub-slab Vapor (Canister) Sample Collection Field Form**

Project # 60137362 (AECOM) Consultant AECOM Environment
Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID SV1

Start Date/Time	8-28-10 / 1414	Vacuum gauge "zero" ("Hg)	Yes
End Date/Time	8-28-10 / 2215	Start Pressure ("Hg)	-30
Canister ID	1617	End Pressure ("Hg)	-8
Flow controller ID	00905	End pressure > "zero"?	No
Associated indoor air sample ID	IA1	Sampling duration (intended)	8 hr
		Associated ambient air sample ID	AmB1

Tubing type used 1/8" & 3/8" ID Length of tubing 75cm & 75cm cm Tubing volume 135 cc
Volume purged 200 cc @ 1 min 1 to 3 volumes purged @ < 200cc/min? yes

Weather Conditions at Start of Sampling:

Air temperature (°F)	75-80	Rainfall	No	Wind direction	North
Barometric pressure	30.2			Wind speed (mph)	0-5

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:
Barometric pressure rose From 29.9-30.2 in Hg in 48hr before Sampling

Indoor air temp (°F) 78 Indoor relative humidity (%) NA
Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

See Ambient air sampling canister sampling form

Comments:

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Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 (AECOM #) Consultant AECOM Environment

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID IA1

Vacuum gauge "zero" ("Hg) Yes

Start Date/Time 8-28-10 / 1413 Start Pressure ("Hg) -30

End Date/Time 8-28-10 / 2215 End Pressure ("Hg) -8

Canister ID 1601 End pressure > "zero"? No

Flow controller ID 00908 Sampling duration (intended) 8 hr

Associated ambient air sample ID AMB1 Associated sub-slab vapor sample ID SV1

Tubing type used NA Length of tubing NA cm Tubing volume NA cc

Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

Weather Conditions at Start of Sampling:

Air temperature (°F) 75-80 Rainfall No Wind direction North

Barometric pressure 30.7 Relative humidity NA Wind speed (mph) 0-5

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

See Ambient Air Sampling Sheet

Indoor air temp (°F) 78 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? Yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

See Ambient air sampling canister sampling form.

Comments:

OSR-3 Equity former MGP- Sample IA 1 & SV 1

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Jesse Lloyd Sampling Date/Time : 3-14-10 / 0800 to 1630

Preparer's Affiliation: AECOM Environmental Phone No: 607-351-9543

Purpose of Investigation: To evaluate the potential for residuals from the former manufactured gas plant operations to adversely impact the indoor air.

1. OCCUPANT:

Interviewed: (Y)/N

Last Name: Kvedards First Name: Ray

Address: 222 Maspeth Ave., Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location: 10-15 Age of Occupants: Of working age.

2. OWNER OR LANDLORD: (Check if same as occupant) **Manhattan Demolition**

Interviewed: Y (N)

Last Name: Hillcoat First Name: David

Address: 215 Moore Street, Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: Not known

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other) Non-residential

If multiple units, how many? NA

If the property is commercial, type? Yes

Business Type(s): Waste transfer and recycling facility

Does it include residences (i.e., multi-use)? Y /(N) If yes, how many? NA

Other characteristics:

Number of floors: 2 Building age: Not known

Is the building insulated? Y /(N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors:
Floors are connected by a staircase located outside in an alley.

Airflow near source:
There is no isolated, specific source area. The smoke gently floated upwards in sampling area.

Outdoor air infiltration:
There is a door that leads to an outdoor alley. Air is able to slightly flow around the door.

Infiltration into air ducts: No air ducts were observed.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	(concrete)	stone	brick other:
b. Basement type:	full	crawlspace	slab	(other: No basement is present)
c. Basement floor:	concrete	dirt	stone	(other: No basement is present)
d. Basement floor:	uncovered	covered	covered with: NA	
e. Concrete floor:	(unsealed)	sealed	sealed with:	
f. Foundation walls:	poured	block	stone	(other: NA)
g. Foundation walls:	unsealed	sealed	sealed with: NA	
h. The basement is:	wet	damp	dry	moldy: NA
i. The basement is:	finished	unfinished	partly finished: NA	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / (not applicable)			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)
There is a utility opening in the floor approximately 20 NE of SV1. It is approximately 1'x2' in area. A measurement of 0 ppb was observed in this utility opening.
There is also a large utility opening in the floor located in the electrical closet connected to the locker room. This area is where the drilled well is located. There is an opening in the north wall this utility closet that leads to the bottom of the wall in the locker room where SV1 and IA1 were taken.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood Stove	Outdoor wood boiler	(Other: Central air)

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor (Main Floor) Other:

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

NA

7. OCCUPANCY

Is basement /lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement: NA

1st Floor: Locker room restroom and electrical closet.

2nd Floor: Used for offices

3rd Floor: NA

4th Floor: NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage? (e.g., lawnmower, atv, car) Y / N / (NA) Please specify Heavy earth moving equipment

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? The samples were taken in a maintenance garage.

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y / N When & Type? Unknown

i. Have cosmetic products been used recently? Y / N When & Type? Unknown

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When?

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When?

l. Have air fresheners been used recently? Y / (N) When & Type?

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented?

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented?

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type?

Are there odors in the building? (Y) / N

There was a smell coming from the air freshener in the bathroom, there was no name or ingredients on the bottle.

Do any of the building occupants use solvents at work? (Y) / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Several solvents were observed in the maintenance garage that were used for maintenance of the equipment.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) — No
Yes, use dry-cleaning infrequently (monthly or less) — (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation:
Is the system active or passive? Active / Passive - NA

9. WATER AND SEWAGE

Water Supply: (Public Water) (Drilled Well) Driven Well Dug Well Other:
-the drilled well is used to provide water to wash trucks outside.
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Relocation is not recommended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel -(NA)

c. Responsibility for costs associated with reimbursement explained? Y / N -(NA)

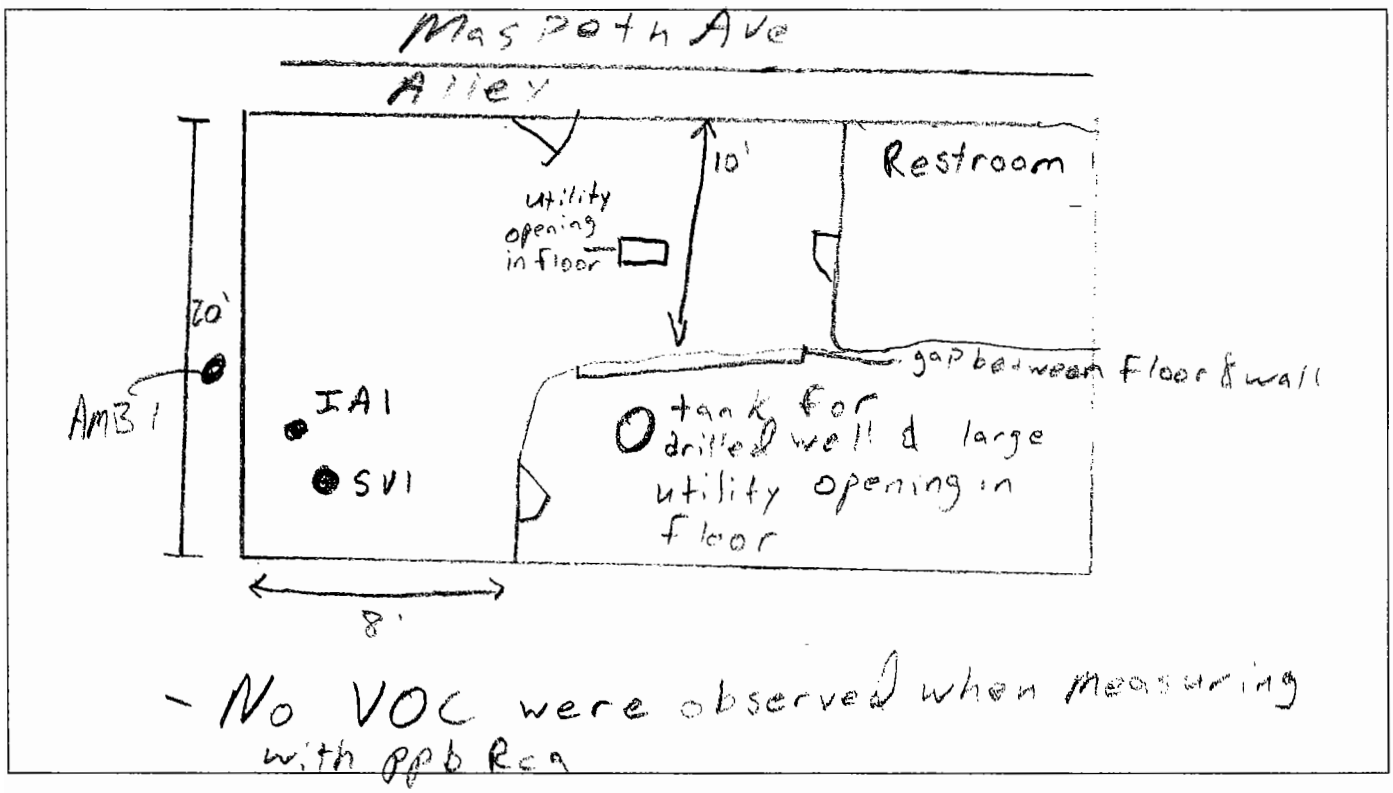
d. Relocation package provided and explained to residents? Y / N -(NA)

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter readings. If the building does not have a basement, please note.

Basement: NA

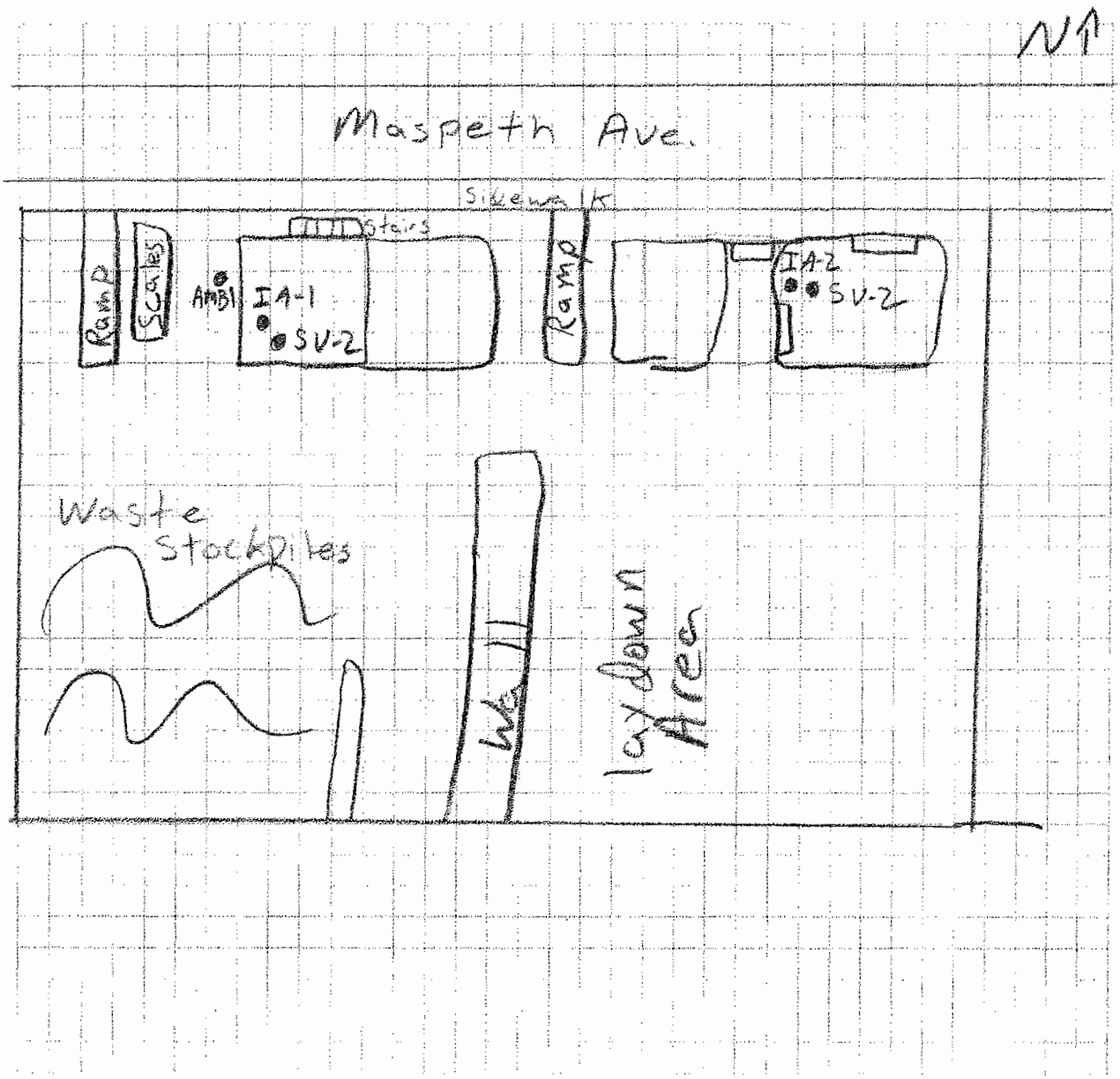
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 2000 ppb rea

No products containing VOCs were observed in the locker room area. No VOCs were measured with ppb Rea.

List specific products found in the residence that have the potential to affect indoor air quality

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N

*Describe the conditions of the product containers as **Unopened (UO),** or **Deteriorated (D)**

Photographs of the **front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredients labels must be legible.

OSR-3 Equity Former MGP - Samples IAZ 2 5 V2

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Jesse Lloyd Sampling Date/Time : 3-14-10 / 0800 to 1630

Preparer's Affiliation: AECOM Environmental Phone No: 607-351-9543

Purpose of Investigation: To evaluate the potential for residuals from the former manufactured gas plant operations to adversely impact the indoor air.

1. OCCUPANT:

Interviewed: (Y)/N

Last Name: Kvedards First Name: Ray

Address: 252 Maspeth Ave., Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location: 10-15 Age of Occupants: Of working age.

2. OWNER OR LANDLORD: (Check if same as occupant) **Manhattan Demolition**

Interviewed: Y /(N)

Last Name: Bordone First Name: Jack

Address: 8-16 43rd Ave., Long Island City, New York 11101

County: Queens

Home Phone: NA Office Phone: Not known

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other) Non-residential

If multiple units, how many? NA

If the property is commercial, type? Yes

Business Type(s): Waste transfer and recycling facility

Does it include residences (i.e., multi-use)? Y /(N) If yes, how many? NA

Other characteristics:

Number of floors: 2 Building age: Not known

Is the building insulated? Y /(N) How air tight? Tight /(Average)/ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors: The samples were taken in a large garage area. The smoke gently floated upwards.

Airflow near source: There is no isolated, specific source area. The smoke gently floated upwards.

Outdoor air infiltration: There are two large garage doors in this sampling area. The garage doors had small openings to the outside. The garage doors remained closed for the entire duration of the sampling.

Infiltration into air ducts: No air ducts were observed.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	(wood frame)	concrete	stone	brick	(other:) cinder block
b. Basement type:	full	crawlspace	slab	(other:)	No basement is present
c. Basement floor:	concrete	dirt	stone	(other:)	No basement is present
d. Basement floor:	uncovered	covered	covered with: NA		
e. Concrete floor:	(unsealed)	sealed	sealed with:		
f. Foundation walls:	poured	block	stone	(other:)	NA
g. Foundation walls:	unsealed	sealed	sealed with: NA		
h. The basement is:	wet	damp	dry	moldy: NA	
i. The basement is:	finished	unfinished	partly finished: NA		
j. Sump present?	Y / (N)				
k. Water in sump?	Y / N / (not applicable)				

Basement/Lowest level depth below grade: (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)
There is a floor drain approximately 10 feet from SV2. The drain is approximately 1' x 1.5'.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood Stove	Outdoor wood boiler	Other:

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor (Main Floor) Other:

Air conditioning: (Central Air) (Window units) Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

NA

7. OCCUPANCY

Is basement /lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement: NA

1st Floor: Used for maintenance of equipment.

2nd Floor: Used for offices

3rd Floor: NA

4th Floor:NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage? (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify Heavy earth moving equipment

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? The samples were taken in a maintenance garage.

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y / (N) When & Type?

i. Have cosmetic products been used recently? Y / (N) When & Type?

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When?

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When?

l. Have air fresheners been used recently? Y / (N) When & Type?

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented?

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented?

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type?

Are there odors in the building? (Y) / N

If yes, please describe: An odor was observed coming from the hydraulic oil drums.

Do any of the building occupants use solvents at work? (Y) / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Several solvents were observed that were used for maintenance of the equipment.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) — No
Yes, use dry-cleaning infrequently (monthly or less) — (Unknown)
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation:
Is the system active or passive? Active / Passive - NA

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other:

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Relocation is not recommended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel -(NA)

c. Responsibility for costs associated with reimbursement explained? Y / N -(NA)

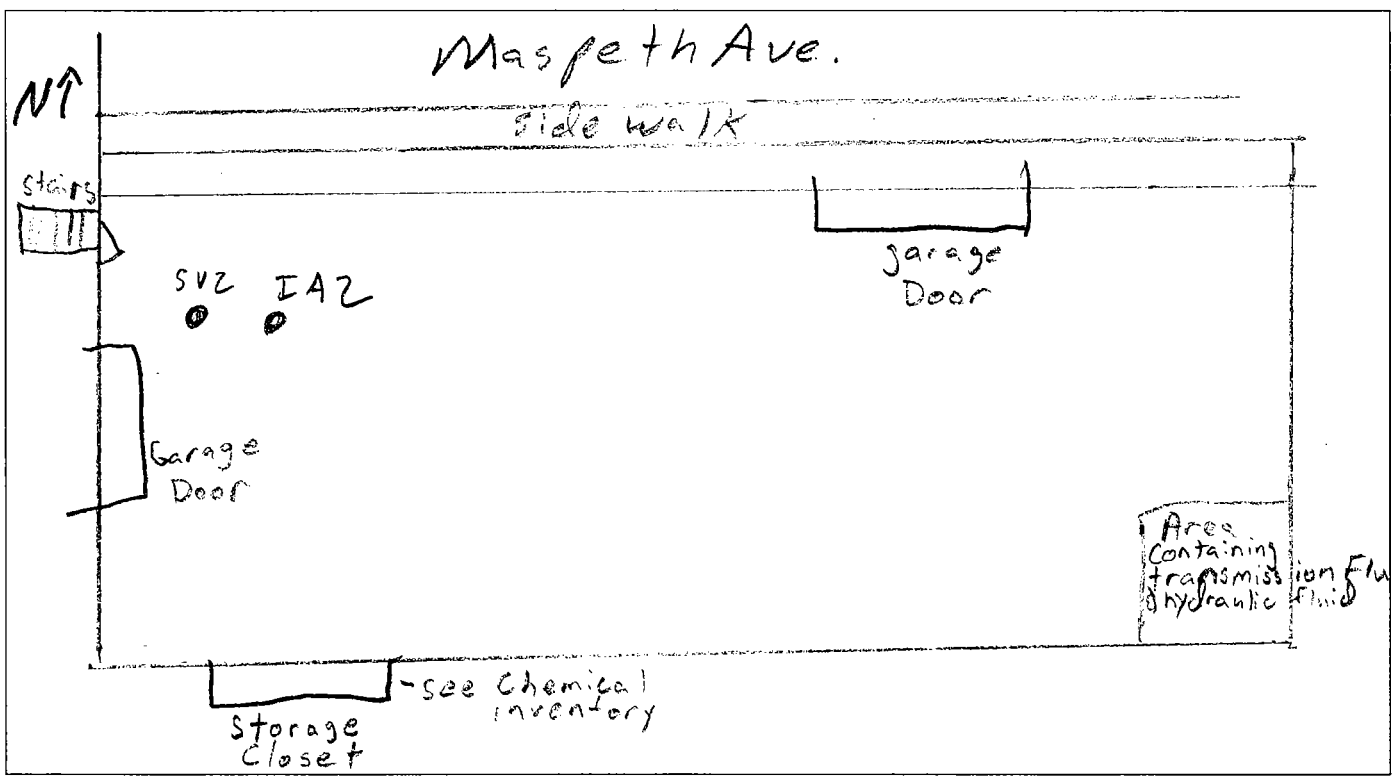
d. Relocation package provided and explained to residents? Y / N -(NA)

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter readings. If the building does not have a basement, please note.

Basement: NA

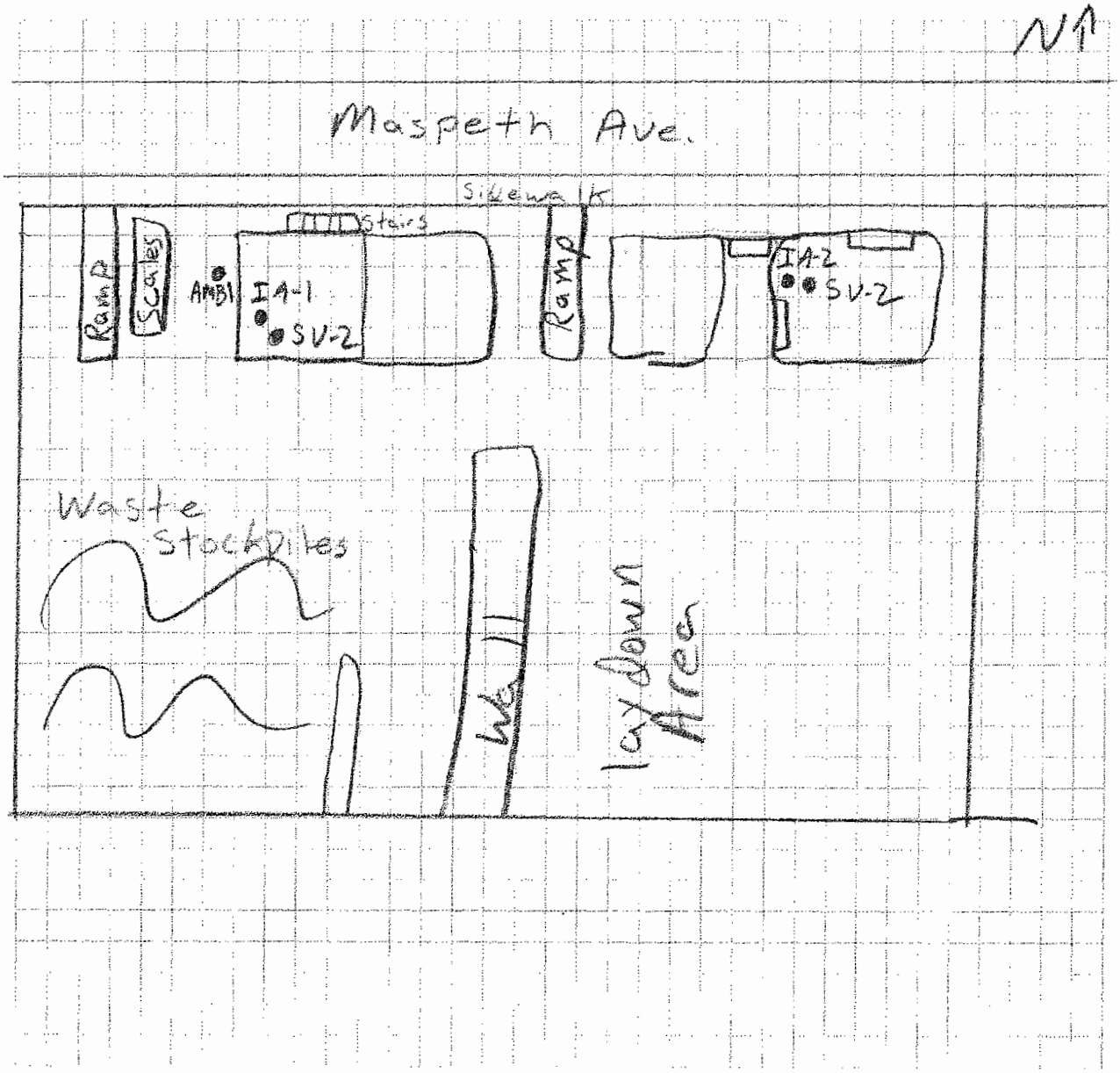
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 2000 ppb rea

List specific products found in the residence that have the potential to affect indoor air quality

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N
Storage closet	CRC Diesel fuel therapy	10 bottles - 32 fluids Oz	Good to fair	Petroleum distillates Naphthalene Stoddard Solvent	900 ppb	yes
Storage closet	CRC Air brake antifreeze	6 bottle - 32 fluid Oz	Good to fair	Methanol	550 ppb	yes
Storage closet	Gunk brake cleaner	1 bottle - 19 fluid Oz	Fair (no cap)	Tetrachloroethylene	2000 ppb	yes
Storage closet	Rustoleum white mark out paint	1 bottle - 17 Oz	Fair	Xylene Toluene Ethyl benzene Naphtha	0 ppb	yes
Garage area	Transmission Fluid	8 drums - 55 gallons	Good to fair	Heavy petroleum distillates	0 ppb	yes
Garage area	Hydraulic fluid	3 drums - 5 gallons	Good to fair	Refined petroleum oils	0 ppb	yes
Storage closet	Block blue thread and gasket sealer	1 can – 16 fluid Oz	poor	isopropanol	25 ppb	yes

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Ambient Air (Canister) Sample Collection Field Form

Project #	60137362 (AECOM)	Consultant	AECOM Environmental
Project Name	Equity Former MGP	Collector	Jesse Lloyd

Sample ID	AMB1	Vacuum gauge "zero" ("Hg)	yes
Start Date/Time	3-14-10 / 0803	Start Pressure ("Hg)	-29
End Date/Time	3-14-10 / 1558	End Pressure ("Hg)	-6
Canister ID	5755	End pressure > "zero"?	yes
Flow controller ID	NA	Sampling duration (intended)	8 hr

Tubing type used: NA Length of tubing: NA cm Tubing volume: NA cc

Volume purged: NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

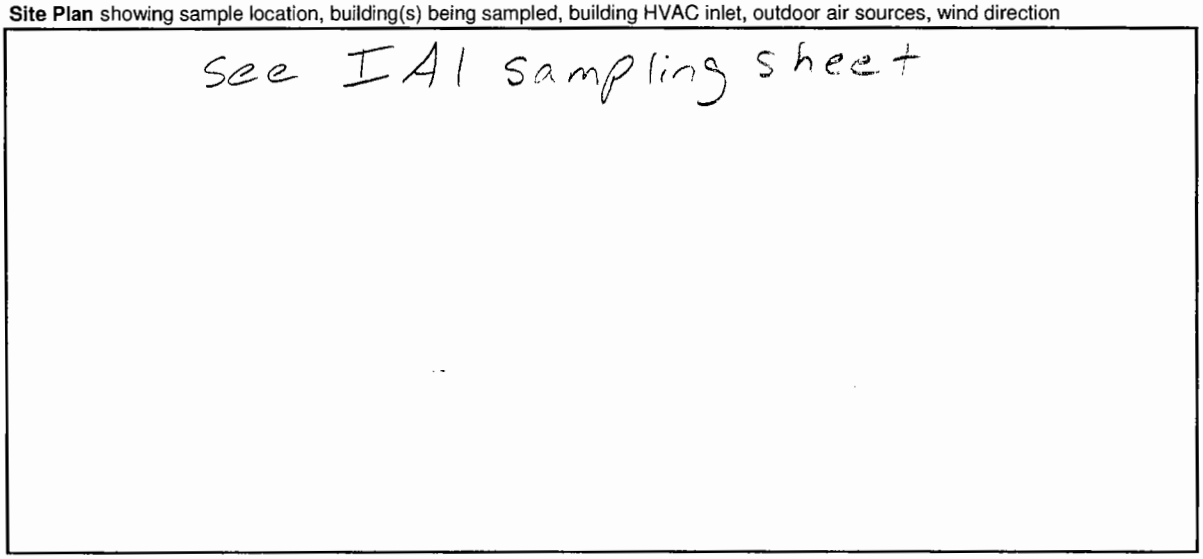
Weather Conditions at Start of Sampling:

Air temperature (°F)	43-50	Rainfall	light to moderate	Wind direction	N to NE
Barometric pressure	29.52-29.55	Relative humidity	NA	Wind speed (mph)	10-20

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Pressure rose from 29.52 to 29.55 during sampling. Rainfall was light to moderate with periods of no rain. It was windy out.

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction



Comments:

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 (AECOM #) Consultant AECOM Environmental

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID IA1 / IA1Dup

Vacuum gauge "zero" ("Hg)	yes		
Start Date/Time	3-14-10 - 0802 / 0802	Start Pressure ("Hg)	-30 / -32
End Date/Time	3-14-10 - 1605 / 1605	End Pressure ("Hg)	-7 / -7
Canister ID	02327 / 21073	End pressure > "zero"?	yes
Flow controller ID	NA / NA	Sampling duration (intended)	8 hr
Associated ambient air sample ID	AMB 1	Associated sub-slab vapor sample ID	SV1

Tubing type used NA Length of tubing NA cm Tubing volume NA cc

Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

Weather Conditions at Start of Sampling:

Air temperature (°F) 43 - 50 Rainfall light to moderate Wind direction N to NE

Barometric pressure 29.52 to 29.55 Relative humidity NA Wind speed (mph) 10-20

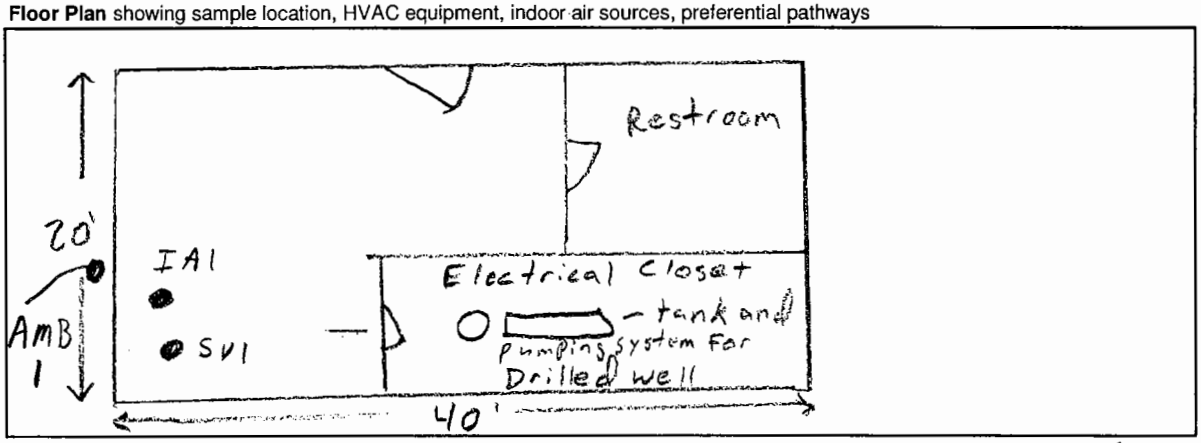
Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Pressure dropped From 30.0 to 29.50 on 3-13-10, then remained steady. Wind was steadly out of the N/NE at 25-10mph on 3-13-10. Rain was heavy to light on 3-13-10. See IA2 For weather on 3-14-10.

Indoor air temp (°F) 60 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways



Comments: No products containing VOC's were observed. There was VOCs measured with the PID rea.

nationalgrid **Sub-slab Vapor (Canister) Sample Collection Field Form**

Project # 60137362 (AECom #) Consultant AECom Environmental

Project Name Equityformer MGP Collector Jesse Lloyd

Sample ID SV1

Vacuum gauge "zero" ("Hg)	yes		
Start Date/Time	3-14-10 / 0803	Start Pressure ("Hg)	-29
End Date/Time	3-14-10 / 1558	End Pressure ("Hg)	-6
Canister ID	33888	End pressure > "zero"?	yes
Flow controller ID	NA	Sampling duration (intended)	8 hr
Associated indoor air sample ID	IA1	Associated ambient air sample ID	AMB1

Tubing type used 2.5' of 1/8" OD 2.5' of 3/8" OD Length of tubing 75cm + 75cm cm Tubing volume 135 cc

Volume purged 200 cc @ 1 min 1 to 3 volumes purged @ < 200cc/min? yes

Weather Conditions at Start of Sampling:

Air temperature (°F) 43-50 Rainfall light to moderate Wind direction N to NE

Barometric pressure 29.52 to 29.55 Wind speed (mph) 10-20

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

See IA1

Indoor air temp (°F) 60 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

See IA1

Comments:

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 (AECOM #) Consultant AECOM Environmental

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID IA2

Start Date/Time 3-14-10 / 0807 Vacuum gauge "zero" ("Hg) yes

End Date/Time 3-14-10 / 1630 Start Pressure ("Hg) -31

Canister ID 35273 End Pressure ("Hg) -5.5

Flow controller ID NA End pressure > "zero"? yes

Associated ambient air sample ID AMB1 Sampling duration (intended) 8hr

Associated sub-slab vapor sample ID SV1

Tubing type used NA Length of tubing NA cm Tubing volume NA cc

Volume purged NA cc @ NA min 1 to 3 volumes purged @ < 200cc/min? NA

Weather Conditions at Start of Sampling:

Air temperature (°F) 43-50 Rainfall light to moderate Wind direction N-NE

Barometric pressure rose From 29.52 - 29.55 Relative humidity NA Wind speed (mph) 10-20

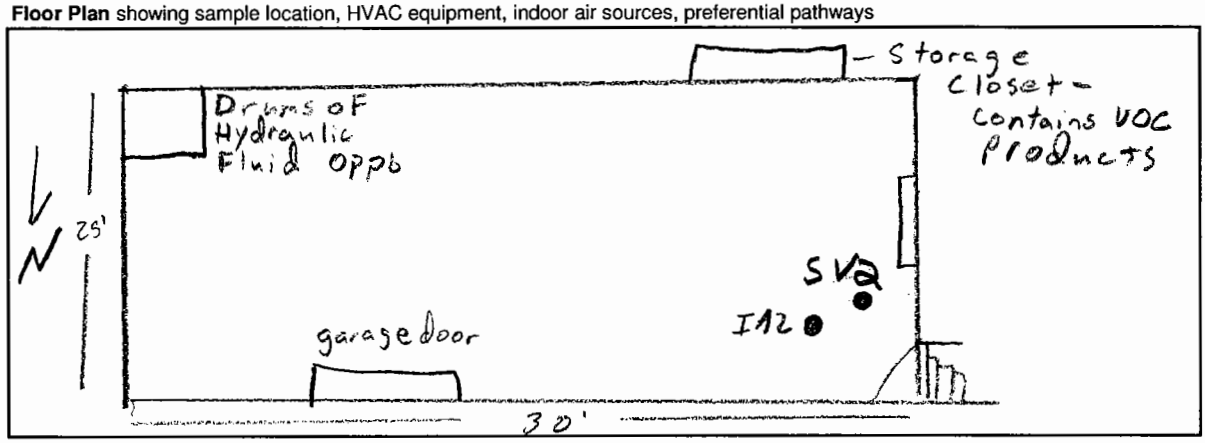
Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Pressure rose from 29.52 to 29.55 during sampling. Rainfall was moderate to light with period of no rain. It was windy. See IA1 For weather on 3-13-10.

Indoor air temp (°F) 52 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways



Comments: No VOCs were measured in main area the sample was. See DOH questionnaire for Chemical inventory.

nationalgrid **Sub-slab Vapor (Canister) Sample Collection Field Form**

Project # 60137362 (AECOM #) Consultant AECOM Environmental

Project Name Equity Former MGP Collector Jesse Lloyd

Sample ID SV2

Start Date/Time 3-14-10 / 0806 Vacuum gauge "zero" ("Hg) yes

End Date/Time 3-14-10 / 1641 Start Pressure ("Hg) -33

Canister ID 33581 End Pressure ("Hg) -7

Flow controller ID NA End pressure > "zero"? yes

Associated indoor air sample ID IA2 Sampling duration (intended) 8h

Associated ambient air sample ID AMB1

Tubing type used 2.5' of 1/8" OD & ~.5' of 3/8" OD Length of tubing 75cm + 75cm cm Tubing volume 135 cc

Volume purged 700 cc @ 1 min 1 to 3 volumes purged @ < 200cc/min? yes

Weather Conditions at Start of Sampling:

Air temperature (°F) 43-50 Rainfall light to moderate Wind direction N to NE

Barometric pressure 29.52-29.55 Wind speed (mph) 10-20

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

See IA2

Indoor air temp (°F) 52 Indoor relative humidity (%) NA

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

Comments: Measured 2300ppb of He in beginning and end of sampling in sub-slab sample. Helium shroud was filled with 91% Helium.

2011 Indoor Air Survey Forms

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Jesse Lloyd Sampling Date/Time : February 12, 2011/ 0900 to 1730

Preparer's Affiliation: AECOM Environmental Phone No: 607-351-9543

Purpose of Investigation: To evaluate the potential for residuals from the former manufactured gas plant operations to adversely impact the indoor air.

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Kvedards First Name: Ray

Address: 222 Maspeth Ave., Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: 718-384-7727

Number of Occupants/persons at this location: 10-15 Age of Occupants: Of working age.

2. OWNER OR LANDLORD: (Check if same as occupant) **Manhattan Demolition**

Interviewed: Y / (N)

Last Name: Hillcoat First Name: David

Address: 215 Moore Street, Brooklyn, New York

County: Kings

Home Phone: NA Office Phone: Not known

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
(Industrial)	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	(Other: Non-residential)

If multiple units, how many? NA

If the property is commercial, type? Yes

Business Type(s): Waste transfer and recycling facility

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? NA

Other characteristics:

Number of floors: 2 Building age: Not known

Is the building insulated? Y / (N) How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow pattern and qualitatively describe:

Airflow between floors:
Floors are connected by a staircase located outside in an alley.

Airflow near source:
There is no isolated, specific source area. The smoke gently floated upwards in sampling area.

There is a large sump in located in the room attached to the locker room. The sump contains piping from a former water production well. The air flow near the sump gently floated upwards. PID readings at floor level in the sump area were 100 to 400 ppb (parts per billion). PID readings at the bottom of the sump were approximately 450 ppb.

Outdoor air infiltration:
There is a door that leads to an outdoor alley. The door appeared to be fairly well sealed. No airflow was observed around the door while using the smoke tube.

Infiltration into air ducts: No air ducts were observed.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction: (wood frame) (concrete) stone brick other:

b. Basement type: full crawlspace slab (other: No basement is present)

c. Basement floor: concrete dirt stone (other: No basement is present)

d. Basement floor: uncovered covered covered with: NA

e. Concrete floor: (unsealed) sealed sealed with:

f. Foundation walls: poured block stone (other: NA)

g. Foundation walls: unsealed sealed sealed with: NA

h. The basement is: wet damp dry moldy: NA

i. The basement is: finished unfinished partly finished: NA

j. Sump present? (Y) / N

k. Water in sump? Y / (N / not applicable)

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size. (e.g., cracks, utility ports, drains)

There is a large utility sump opening in the floor located in approximately 15 north of SV-1. The sump contains piping from a former water production well. PID readings at floor level in the sump area were 1200 to 1500 ppb (parts per billion). PID readings at the bottom of the sump were 3000 ppb.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood Stove	Outdoor wood boiler (Other: Central air)

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoor (Main Floor) Other:

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and air return ductwork, and its condition where visible, including whether There is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram,

NA

7. OCCUPANCY

Is basement /lowest level occupied? Full-time (Occasionally) Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement: NA

1st Floor: Locker room restroom and electrical closet.

2nd Floor: Used for offices

3rd Floor: NA

4th Floor: NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage? (e.g., lawnmower, atv, car) Y / N / (NA) Please specify Heavy earth moving equipment

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y / N When & Type? (Unknown)

i. Have cosmetic products been used recently? Y / N When & Type? (Unknown)

j. Has painting/staining been done in the last 6 months? (Y / N) Where & When? The locker room area had been completely refinished in the past month.

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When?

l. Have air fresheners been used recently? Y / (N) When & Type?

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented?

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented?

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type?

Are there odors in the building? (Y) / N
There was a smell coming from the air freshener in the bathroom, there was no name or ingredients on the bottle.

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? Several solvents were observed in the maintenance garage that were used for maintenance of the equipment.

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less)	(Unknown)
Yes, work at a dry-cleaning service	

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation:
Is the system active or passive? Active / Passive - NA

9. WATER AND SEWAGE

Water Supply: (Public Water) (Drilled Well) Driven Well Dug Well Other:
-the drilled well is used to provide water to wash trucks outside, this well is no longer in use.
Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: Relocation is not recommended

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel -(**NA**)

c. Responsibility for costs associated with reimbursement explained? Y / N -(NA)

d. Relocation package provided and explained to residents? Y / N -(NA)

11. FLOOR PLANS
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources, and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:

m

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being samples. If applicable, provide information on spill locations, potential air contamination sources (industrial, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s), and PID meter readings.

Also indicate compass direction, wind direction, and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rea 3000 ppb Rea

No products containing VOCs were observed in the locker room area.

List specific products found in the residence that have the potential to affect indoor air quality

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Readings (units)	Photo** Y/N

*Describe the conditions of the product containers as **Unopened (UO),** or **Deteriorated (D)**

Photographs of the **front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredients labels must be legible.

2015 Indoor Air Survey Forms

OSR - 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Rita Papagian Date/Time Prepared 3-24-15

Preparer's Affiliation AECOM Phone No. 3454254980

Purpose of Investigation SV Sampling

1. OCCUPANT:

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: ~~Asher~~ Asher

Address: 1 Rewe St Brooklyn, NY

County: ~~Kings~~

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School (Commercial/Multi-use)
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) warehouse + office space

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 2 Building age 25+

Is the building insulated? Y / N
lower level no
upper unknown

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

None unless bays are open.

Outdoor air infiltration

from bays but most of the time they remained closed during sampling.

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type: NA	full	crawlspace	slab	other _____
c. Basement floor: NA	concrete	dirt	stone	other _____
d. Basement floor: NA	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with Paint	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Paint.	
h. The basement is: NA	wet	damp	dry	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present? NA	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks in Floor; no drains etc noted

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: NA

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None - in warehouse

Are there air distribution ducts present? Y (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	warehouse
2nd Floor	Office Space
3rd Floor	~~Office Space~~
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Y) / N / NA Please specify Forklifts

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Rita Papazian Date/Time Prepared 3-24-15

Preparer's Affiliation AECOM Phone No. 845 425 4980

Purpose of Investigation Soil gas / Indoor Air Sampling

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: ~~Wong~~ Wu First Name: May

Address: 7 Reve

County: _____

Home Phone: _____ Office Phone: 718-599-1668

Number of Occupants/persons at this location 2 Age of Occupants 30-60 yrs. old.

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)	warehouse
Industrial	Church	Other: _____	

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Warehouse - Food containers + Restaurant paper Products foiled C

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y / (N) → warehouse How air tight? Tight / Average / (Not Tight)

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

Flowing in and out through garage

Outdoor air infiltration

Garage doors open all day

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Painted	
h. The basement is: NA	wet	damp	dry	moldy
i. The basement is: NA	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

cracks in flooring

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

None in warehouse

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	
1st Floor	warehouse
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N — sample in garage/warehouse

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) (Propane) (Y) / N / NA
Please specify Propane powered forklifts.

d. Has the building ever had a fire? Y / (N) When? _____

e. Is a kerosene or unvented gas space heater present? Y (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y (N) How frequently? _____

h. Have cleaning products been used recently? Y (N) When & Type? _____

i. Have cosmetic products been used recently? Y (N) When & Type? _____

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 Consultant AECOM

Project Name Equity Collector RPapagian, SWright

Sample ID SG-A

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 / 0845 Start Pressure ("Hg) -30

End Date/Time 3-25-15 / 1700 End Pressure ("Hg) -11

Canister ID 10267 End pressure > "zero"? yes

Flow controller ID 100514 Sampling duration (intended) 8 hr

Associated ambient air sample ID Associated sub-slab vapor sample ID SG-A

Tubing type used 1/4 od Tef. tub Length of tubing 5' cm Tubing volume cc

Volume purged 1 L cc @ 5 min 1 to 3 volumes purged @ < 200cc/min?

Weather Conditions at Start of Sampling:

Air temperature (°F) 45° Rainfall Wind direction

Barometric pressure Relative humidity 85 % Wind speed (mph)

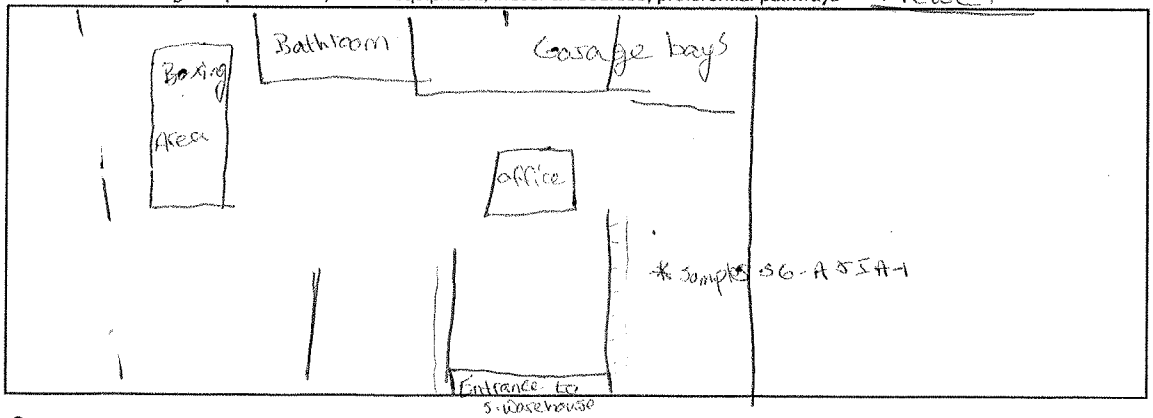
Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain started @ 1445 during Sampling

Indoor air temp (°F) 60 Indoor relative humidity (%)

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways 1 reading



Comments:

nationalgrid

Ambient Air (Canister) Sample Collection Field Form

Project # _____ Consultant _____

Project Name _____ Collector _____

Sample ID _____ Vacuum gauge "zero" ("Hg) _____

Start Date/Time _____ Start Pressure ("Hg) _____

End Date/Time _____ End Pressure ("Hg) _____

Canister ID _____ End pressure > "zero"? _____

Flow controller ID _____ Sampling duration (intended) _____

Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) _____ Rainfall _____ Wind direction _____

Barometric pressure _____ Relative humidity _____ Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

_____

_____

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction

Comments: _____

_____

_____

_____

_____

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 Consultant AECOM

Project Name Equity Collector RP, SW

Sample ID IA-A

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 / 0846 Start Pressure ("Hg) -30

End Date/Time 3-25-15 / 1600 End Pressure ("Hg) -5.5

Canister ID 1159 End pressure > "zero"? yes

Flow controller ID 10861 Sampling duration (intended) 8hr

Associated ambient air sample II — Associated sub-slab vapor sample ID SGA

NA

Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) 45 Rainfall @ Wind direction _____

Barometric pressure _____ Relative humidity _____ Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1445

Indoor air temp (°F) 60 Indoor relative humidity (%) _____

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs _____

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

Comments:

nationalgrid

Ambient Air (Canister) Sample Collection Field Form

Project # _____ Consultant _____

Project Name _____ Collector _____

Sample ID _____ Vacuum gauge "zero" ("Hg) _____

Start Date/Time _____ Start Pressure ("Hg) _____

End Date/Time _____ End Pressure ("Hg) _____

Canister ID _____ End pressure > "zero"? _____

Flow controller ID _____ Sampling duration (intended) _____

Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) _____ Rainfall _____ Wind direction _____

Barometric pressure _____ Relative humidity _____ Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

_____

_____

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction

Comments: _____

_____

_____

_____

_____

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60613 7362 Consultant AECOM

Project Name Equity Collector RP SW

Sample ID SG-B

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 0911 Start Pressure ("Hg) -30

End Date/Time 3-25-15 1605 End Pressure ("Hg) -5

Canister ID 10261 End pressure > "zero"? yes

Flow controller ID 10879 Sampling duration (intended) 8 hrs

Associated ambient air sample ID IA-B Associated sub-slab vapor sample ID

Tubing type used 1/4 od Tef tub. Length of tubing 5' cm Tubing volume cc

Volume purged 1 L cc @ 5 min 1 to 3 volumes purged @ < 200cc/min?

Weather Conditions at Start of Sampling:

Air temperature (°F) 45° F. Rainfall Wind direction

Barometric pressure Relative humidity 85 % Wind speed (mph)

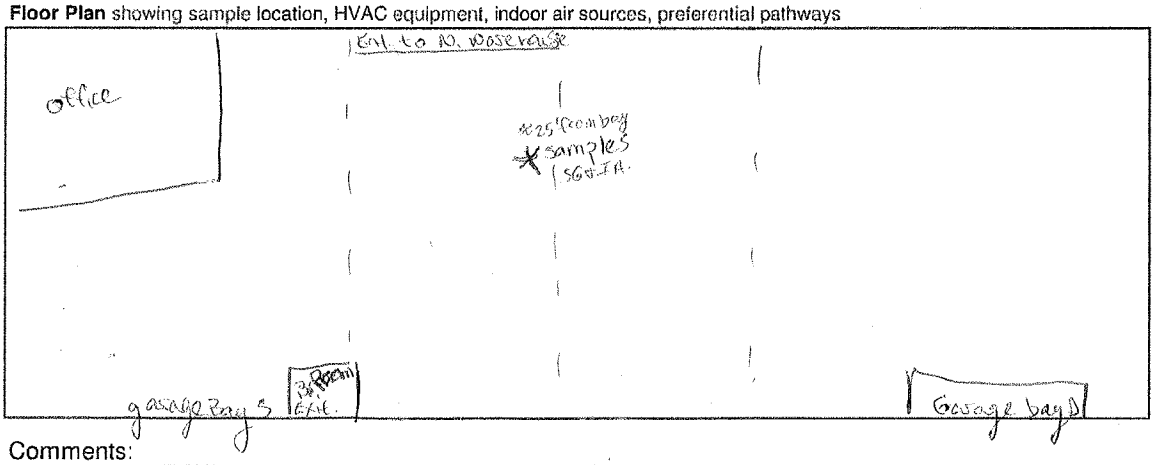
Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1445

Indoor air temp (°F) 50° F Indoor relative humidity (%)

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways



Comments:

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 Consultant AECom

Project Name Equity Collector RR

Sample ID IA-B (Air-Dup-032515)

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 0910 (0910) Start Pressure ("Hg) -30 (-30)

End Date/Time 3-25-15 1650 End Pressure ("Hg) -6.0 (-6.0)

Canister ID 10370 (10683) End pressure > "zero"? yes

Flow controller ID 10592 (10845) Sampling duration (intended) 8

Associated ambient air sample ID NA Associated sub-slab vapor sample ID SG-B

NA Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) 45°F Rainfall _____ Wind direction _____

Barometric pressure _____ Relative humidity 85% Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1445

Indoor air temp (°F) 50°F Indoor relative humidity (%) _____

Building Survey and Chemical Inventory Form Completed? yes Photograph IDs _____

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

Comments: _____

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Indoor Air (Canister) Sample Collection Field Form

Project # 60613 7362 Consultant AECOM

Project Name Equity Collector RP SW

Sample ID SG - C

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 0920 Start Pressure ("Hg) -30

End Date/Time 3-25-15 1710 End Pressure ("Hg) -5

Canister ID 10262 End pressure > "zero"? yes

Flow controller ID 10360 Sampling duration (intended) 8 hrs

Associated ambient air sample ID IA-C Associated sub-slab vapor sample ID NA

Tubing type used 1/4 od Tef tub. Length of tubing 5' cm Tubing volume cc

Volume purged 1 L cc @ 5 min 1 to 3 volumes purged @ < 200cc/min?

Weather Conditions at Start of Sampling:

Air temperature (°F) 45° F. Rainfall Wind direction

Barometric pressure Relative humidity 85 % Wind speed (mph)

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1445

Indoor air temp (°F) 50° F Indoor relative humidity (%)

Building Survey and Chemical Inventory Form Completed? Photograph IDs

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

Comments:

nationalgrid

Ambient Air (Canister) Sample Collection Field Form

Project # _____ Consultant _____

Project Name _____ Collector _____

Sample ID _____ Vacuum gauge "zero" ("Hg) _____

Start Date/Time _____ Start Pressure ("Hg) _____

End Date/Time _____ End Pressure ("Hg) _____

Canister ID _____ End pressure > "zero"? _____

Flow controller ID _____ Sampling duration (intended) _____

Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) _____ Rainfall _____ Wind direction _____

Barometric pressure _____ Relative humidity _____ Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

_____

_____

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction

Comments: _____

_____

_____

_____

_____

nationalgrid

Indoor Air (Canister) Sample Collection Field Form

Project # 60137362 Consultant AECOM

Project Name Equity Collector RR

Sample ID IA - C

Vacuum gauge "zero" ("Hg) yes

Start Date/Time 3-25-15 Start Pressure ("Hg) -30

End Date/Time 3-25-15 End Pressure ("Hg) -5

Canister ID 10399 End pressure > "zero"? yes

Flow controller ID 10099 Sampling duration (intended) 8 0

Associated ambient air sample ID NA Associated sub-slab vapor sample ID SS-C

NA Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

Weather Conditions at Start of Sampling:

Air temperature (°F) 45°F Rainfall _____ Wind direction _____

Barometric pressure _____ Relative humidity 85% Wind speed (mph) _____

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1445

Indoor air temp (°F) 50°F Indoor relative humidity (%) _____

Building Survey and Chemical Inventory Form Completed? _____ Photograph IDs _____

Floor Plan showing sample location, HVAC equipment, indoor air sources, preferential pathways

Comments:

nationalgrid

Ambient Air (Canister) Sample Collection Field Form

Project #	60137362	Consultant	AECOM
Project Name	Equity	Collector	RP SW

Sample ID	OA-1-032515	Vacuum gauge "zero" ("Hg)	yes
Start Date/Time	3-25-15 0928	Start Pressure ("Hg)	~30
End Date/Time	3-25-15 1710	End Pressure ("Hg)	-5
Canister ID	10826	End pressure > "zero"?	yes
Flow controller ID	10654	Sampling duration (intended)	8hr

NA Tubing type used _____ Length of tubing _____ cm Tubing volume _____ cc

Volume purged _____ cc @ _____ min 1 to 3 volumes purged @ < 200cc/min? _____

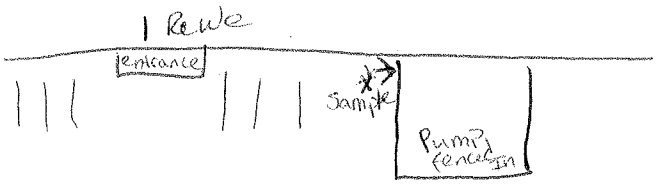
Weather Conditions at Start of Sampling:

Air temperature (°F)	45°F	Rainfall		Wind direction	
Barometric pressure		Relative humidity	35%	Wind speed (mph)	

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Rain @ 1945

Site Plan showing sample location, building(s) being sampled, building HVAC inlet, outdoor air sources, wind direction



Comments:

Appendix K

NYSDEC Analytical Services Protocol Category B Deliverable Data

Submitted as a Separate File

Appendix L

Data Usability Summary Reports

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
March 23, 2010

Data Usability Summary Report
National Grid/Equity Former MGP Site
Brooklyn, NY
2009 Remedial Investigation Sampling Event
Final

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
March 23, 2010

Data Usability Summary Report
National Grid/Equity Former MGP Site
Brooklyn, NY
2009 Remedial Investigation Sampling Event
Final

Prepared and Reviewed by
Greg Malzone, Project Chemist

Prepared by
Waverly Braunstein, Project Chemist

Prepared by
Deb Truini, Project Chemist

Contents

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

A data assessment was performed by the AECOM Pittsburgh and Westford Chemistry Consulting Groups on nine data packages from H2M Labs, Inc., 575 Broad hollow Road, Melville, NY 11747 for the analysis of soil and groundwater samples collected on September 22, 2009 - December 16, 2009 at the Equity former MGP site.

The data were evaluated for conformance to method specifications and qualifiers were applied using the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, October 2004, as they apply to the analytical methods employed. Field duplicate RPD control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses,* February 1988, upheld in DRAFT 1993.

H2M processed the samples and reported the results under nine sample delivery groups (SDGs). Table 1 provides a sample submittal list. The following analytical methods were requested on the chain-of-custody (COC) records:

- Volatile Organic Compounds by USEPA SW-846 Method 8260B,
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270C,
- Organochlorine Pesticides by USEPA SW846 Method 8081A,
- Polychlorinated Biphenyls (PCBs) as Aroclors by USEPA SW-846 Method 8082,
- Herbicides by USEPA SW-846 Method 8151A,
- Petroleum Fingerprint by USEPA SW-846 Method (modified) 8100 (by GC/MS),
- Trace Metals by USEPA SW-846 Methods 6010B, 7471A/7470A,
- Total and Free Cyanide by USEPA SW-846 Method 9010/9014, and
- Percent Moisture by ASTM Method D2216 (soils only) for dry weight corrections.

Table 1 - Sample Submittals
National Grid/ Equity Former MGP 2009 Samples

Field ID	H2M ID	Matrix	Date Sampled	COC Number	H2M SDG
SS-3	0910491-002	Soil	9/22/2009	23730	AECOM049
SS-4	0910491-003	Soil	9/23/2009	23730	AECOM049
TB-092109[1]	0910491-004	Aqueous (QC)	9/21/2009	23730	AECOM049
SS-5	0910571-001	Soil	9/25/2009	23731	AECOM049
DUP-1[2]	0910681-001	Soil (QC)	9/28/2009	23735	AECOM049
SB-3 (4-5)	0910681-002	Soil	9/28/2009	23735	AECOM049
SB-3 (4-5) MS	0910681-002 MS	Soil (QC)	9/28/2009	23735	AECOM049

Field ID	H2M ID	Matrix	Date Sampled	COC Number	H2M SDG
SB-3 (4-5) MSD	0910681-002 MSD	Soil (QC)	9/28/2009	23735	AECOM049
SB-17 (1-2)	0910681-003	Soil	9/25/2009	23735	AECOM049
SS-2	0910681-004	Soil	9/28/2009	23735	AECOM049
SB-5 (16-18)	0910781-001	Soil	9/28/2009	23619	AECOM049
SB-5 (28-30)	0910781-002	Soil	9/28/2009	23619	AECOM049
SB-5 (52-54)	0910781-003	Soil	9/28/2009	23619	AECOM049
SB-8 (2-3)	0910781-004	Soil	9/27/2009	23619	AECOM049
TB-093009[1]	0910781-005	Aqueous (QC)	9/30/2009	-	AECOM049
RB-100509	0910859-001	Aqueous (QC)	10/5/2009	23738	AECOM049
SB-7 (6-8)	0910973-001	Soil	10/5/2009	23740	AECOM049
SB-15 (3-4)	0910529-001	Soil	9/23/2009	23730	AECOM050
SB-16 (2-3)	0910572-001	Soil	9/24/2009	23731	AECOM050
SB-18 (4-5)	0910572-002	Soil	9/25/2009	23731	AECOM050
TB-092109[1]	0910572-003	Aqueous (QC)	9/21/2009	23731	AECOM050
SB-9 (4-5)	0910682-001	Soil	9/27/2009	23732	AECOM050
SB-9 (20-21.5)	0910682-002	Soil	9/27/2009	23732	AECOM050
SB-9 (36-38)	0910682-003	Soil	9/27/2009	23732	AECOM050
SB-9 (40-42)	0910682-004	Soil	9/27/2009	23732	AECOM050
SB-10 (3-4)	0910682-005	Soil	9/27/2009	23732	AECOM050
SB-10 (48-50)	0910682-006	Soil	9/27/2009	23732	AECOM050
SB-13 (18-24)	0910682-007	Soil	9/27/2009	23732	AECOM050
SB-14 (1-2)	0910682-008	Soil	9/27/2009	23732	AECOM050
SB-14B (11-13)	0910682-009	Soil	9/27/2009	23732	AECOM050
SB-4 (1-2)	0910782-001	Soil	9/24/2009	23619	AECOM050
SB-10 (16-18)	0910782-002	Soil	9/25/2009	23619	AECOM050
SB-10 (40-41.5)	0910782-003	Soil	9/28/2009	23619	AECOM050
SB-12 (4-5)	0910782-004	Soil	9/25/2009	23619	AECOM050
DUP-2[2]	0910974-001	Soil (QC)	10/7/2009	23740	AECOM050
TP-3 (7.0)	0910974-002	Soil	10/7/2009	23740	AECOM050
TP-3 (7.5)	0910974-003	Soil	10/7/2009	23740	AECOM050
TP-3 (7.5) MS	0910974-003 MS	Soil (QC)	10/7/2009	23740	AECOM050
TP-3 (7.5) MSD	0910974-003 MSD	Soil (QC)	10/7/2009	23740	AECOM050
GW-1	0910683-001	Groundwater	9/27/2009	23732	AECOM051
TB-092809[1]	0910683-002	Aqueous (QC)	9/28/2009	23735	AECOM051
SB-092809	0910683-003	Aqueous (QC)	9/28/2009	23735	AECOM051
SB-13 (0-1)	0910783-001	Soil	9/27/2009	23619	AECOM056
SB-13 (12-14)	0910783-002	Soil	9/28/2009	23619	AECOM056
SB-12 (10-12.2)	0910813-002	Soil	10/1/2009	23737	AECOM056
SB-15 (12-14)	0910813-003	Soil	9/30/2009	23737	AECOM056
SB-15 (38-40)	0910813-004	Soil	9/30/2009	23737	AECOM056
SB-15 (42-44)	0910813-005	Soil	9/30/2009	23737	AECOM056
SB-18 (12-14)	0910813-006	Soil	10/1/2009	23737	AECOM056
TB-100209	0910813-007	Aqueous (QC)	10/2/2009	23737	AECOM056
SB-18 (38-40)	0910860-001	Soil	10/2/2009	23739	AECOM056
SB-18 (42-44)	0910860-002	Soil	10/2/2009	23739	AECOM056
TB-100509[1]	0910860-003	Aqueous (QC)	10/2/2009	23739	AECOM056
SB-11 (16-18)	0910975-001	Soil	10/6/2009	23740	AECOM056

Field ID	H2M ID	Matrix	Date Sampled	COC Number	H2M SDG
SB-11 (32-32.5)	0910975-002	Soil	10/6/2009	23740	AECOM056
SB-11 (54-56)	0910975-003	Soil	10/6/2009	23740	AECOM056
TP-2 (8.5)	0910975-004	Soil	10/6/2009	23740	AECOM056
TB-100709[1]	0910975-005	Aqueous (QC)	10/7/2009	23740	AECOM056
TP-1 (9)	0911044-001	Soil	10/8/2009	23617	AECOM056
TP-1 (9) MS	0911044-001 MS	Soil (QC)	10/8/2009	23617	AECOM056
TP-1 (9) MSD	0911044-001 MSD	Soil (QC)	10/8/2009	23617	AECOM056
DUP-3[2]	0911044-002	Soil (QC)	10/8/2009	23617	AECOM056
SB-2B (5)	0911196-001	Soil	10/13/2009	23741	AECOM056
SB-6 (6)	0911196-002	Soil	10/14/2009	23741	AECOM056
RB2-101309	0911196-003	Aqueous (QC)	10/13/2009	23741	AECOM056
TB-101209[1]	0911196-004	Aqueous (QC)	10/12/2009	23741	AECOM056
SB-4 (36-38)	0911045-001	Soil	10/7/2009	23617	AECOM057
SB-4 (44-46)	0911045-002	Soil	10/8/2009	23617	AECOM057
TP-1 (12)	0911045-003	Soil	10/8/2009	23617	AECOM057
TB-100909[1]	0911045-004	Aqueous (QC)	9/28/2009	23617	AECOM057
SB-2B (14-16)	0911284-001	Soil	10/14/2009	23615	AECOM057
SB-2B (37-38)	0911284-002	Soil	10/14/2009	23615	AECOM057
SB-2B (42-44)	0911284-003	Soil	10/14/2009	23615	AECOM057
TB-101609[1]	0911284-004	Aqueous (QC)	10/12/2009	23615	AECOM057
SB-1 (5)	0911468-001	Soil	10/20/2009	23614	AECOM057
SB-14B (20-22)	0911468-002	Soil	10/17/2009	23614	AECOM057
SB-14B (38-40)	0911468-003	Soil	10/17/2009	23614	AECOM057
SB-14B (54-56)	0911468-004	Soil	10/17/2009	23614	AECOM057
SB-16B (30-32)	0911468-005	Soil	10/19/2009	23614	AECOM057
SB-16B (44-46)	0911468-006	Soil	10/19/2009	23614	AECOM057
SB-6 (16-18)	0911495-001	Soil	10/21/2009	23611	AECOM057
SB-6 (26-28)	0911495-002	Soil	10/21/2009	23611	AECOM057
SB-6 (30-32)	0911495-003	Soil	10/21/2009	23611	AECOM057
TB-102209[1]	0911495-004	Aqueous (QC)	10/22/2009	23611	AECOM057
SB-12B (40-42)	0912042-001	Soil	11/3/2009	23609	AECOM057
SB-12B (48-50)	0912042-002	Soil	11/3/2009	23609	AECOM057
SB-3 (36-38)	0911469-001	Soil	10/20/2009	23614	AECOM058
SB-3 (46-48)	0911469-002	Soil	10/21/2009	23614	AECOM058
SB-8 (24-26)	0911469-003	Soil	10/18/2009	23614	AECOM058
TB-102109[1]	0911469-004	Aqueous (QC)	10/21/2009	23614	AECOM058
SB-17 (16-18)	0911584-001	Soil	10/22/2009	23610	AECOM058
SB-17 (36-38)	0911584-002	Soil	10/22/2009	23610	AECOM058
SB-17 (40-42)	0911584-003	Soil	10/22/2009	23610	AECOM058
TB-102109[1]	0911584-004	Aqueous (QC)	10/22/2009	23610	AECOM058
SB-7 (38-40)	0911725-001	Soil	10/27/2009	23613	AECOM058
SB-7 (44-46)	0911725-002	Soil	10/27/2009	23613	AECOM058
FB-110409	0912043-001	Aqueous (QC)	11/3/2009	23613	AECOM058
TB-110409[1]	0912043-002	Aqueous (QC)	11/4/2009	23613	AECOM058
SB-1C (23-25)	0910584-001	Soil	11/23/2009	23750	AECOM062
SB-1C (23-25) MS	0910584-001 MS	Soil (QC)	11/23/2009	23750	AECOM062
SB-1C (23-25) MSD	0910584-001 MSD	Soil (QC)	11/23/2009	23750	AECOM062

Field ID	H2M ID	Matrix	Date Sampled	COC Number	H2M SDG
SB-1C (80-81.5)	0910584-002	Soil	11/20/2009	23750	AECOM062
SB-1C DUP01 (112009)[2]	0910584-003	Soil (QC)	11/23/2009	23750	AECOM062
SB-1C (98-100)	0912704-001	Soil	11/23/2009	23606	AECOM062
MW1A121409	0913341-001	Groundwater	12/14/2009	23743	AECOM063
MW1B121410	0913341-002	Groundwater	12/14/2009	23743	AECOM063
MW1C121411	0913341-003	Groundwater	12/14/2009	23743	AECOM063
TB121409[1]	0913341-004	Aqueous (QC)	12/14/2009	-	AECOM063
SB121409	0913341-005	Aqueous (QC)	12/14/2009	-	AECOM063
MW3A121509	0913450-001	Groundwater	12/15/2009	23744	AECOM063
MW3A121509 MS	0913450-001 MS	Groundwater (QC)	12/15/2009	23744	AECOM063
MW3A121509 MSD	0913450-001 MSD	Groundwater (QC)	12/15/2009	23744	AECOM063
MW3C121509	0913450-002	Groundwater	12/15/2009	23744	AECOM063
MW3A121609	0913485-001	Groundwater	12/16/2009	30765	AECOM063
MW3A121609 MS	0913485-001 MS	Groundwater (QC)	12/16/2009	30765	AECOM063
MW3A121609 MSD	0913485-001 MSD	Groundwater (QC)	12/16/2009	30765	AECOM063
MW4A121609	0913485-002	Groundwater	12/16/2009	30765	AECOM063
MW4A121609D[2]	0913485-003	Groundwater (QC)	12/16/2009	30765	AECOM063
TB121609[1]	0913485-004	Aqueous (QC)	12/16/2009	-	AECOM063
MW6B121409	0913342-001	Groundwater	12/14/2009	23743	AECOM064
SB121409-2	0913342-002	Aqueous (QC)	12/14/2009	-	AECOM064
MW4B121509	0913464-001	Groundwater	12/15/2009	23744	AECOM064
MW4C121509	0913464-002	Groundwater	12/15/2009	23744	AECOM064
MW4C121509D[2]	0913464-003	Groundwater (QC)	12/15/2009	23744	AECOM064
MW6A121509	0913464-004	Groundwater	12/15/2009	23744	AECOM064
MW7A121509	0913464-005	Groundwater	12/15/2009	23744	AECOM064
MW7B121509	0913464-006	Groundwater	12/15/2009	23744	AECOM064
TB121509[1]	0913464-007	Aqueous (QC)	12/15/2009	-	AECOM064
MW2A121609	0913486-001	Groundwater	12/16/2009	30765	AECOM064
MW2B121609	0913486-002	Groundwater	12/16/2009	30765	AECOM064
MW5A121609	0913486-003	Groundwater	12/16/2009	30765	AECOM064
MW5B121609	0913486-004	Groundwater	12/16/2009	30765	AECOM064
PW1121609	0913486-005	Groundwater	12/16/2009	30765	AECOM064

(1): The trip blank sample was submitted for volatiles analysis only.

(2): Sample was a field duplicate. The parent and field duplicate samples were associated as follows.

Parent	Field Duplicate	Matrix
SS-2	DUP-1	Soil
TP-3 (7.0)	DUP-2	Soil
TP-1 (12)	DUP-3	Soil
SB-1C (80-81.5)	SB-1C DUP01 (112009)	Soil
MW4A121609	MW4A121609D	Groundwater
MW4C121509	MW4C121509D	Groundwater

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, and laboratory blanks.

Seventeen soil manganese results were rejected because of matrix interference indicated by a high matrix spike recovery. Five herbicide results were rejected because of matrix interference that caused dual GC column imprecision. One hundred and twelve volatile organic results were rejected because sample GW-1 and a trip blank had visible headspace. Sixteen semivolatile organic results were rejected because of matrix interference that caused internal standard recoveries to recover at less than 25%. All other data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., soil and groundwater) with the qualifications described below. Several data points were qualified because of blank contamination, low method and/or instrument bias, matrix effects and/or sample heterogeneity, and method/field sampling imprecision. There were several instances of elevated reporting limits caused by the dilution required to bring the analyte concentrations into the calibration range and/or minimize matrix interferences. Completeness of 99.4% was achieved for this data set.

The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

AECOM049

a. Blank Contamination (pp. V437-V438, V472-V473): The common laboratory solvent methylene chloride was detected in the method blanks associated with the low-level soil (LLS) samples analyzed on 10/02/09 and 10/12/09 at concentrations greater than the quantitation limits. All soil samples within this SDG were affected. The positive methylene chloride results for the soil samples were qualified "U" as undetected, because of laboratory contamination.

   The common laboratory solvent acetone was detected in the trip blank TB-093009 and the equipment (rinsate) blank RB-100509 at concentrations estimated below the quantitation limit. The positive acetone results for samples SB-17 (1-2) and SB-7 (6-8) were greater than the quantitation limits and were qualified "J," as biased high, and the positive acetone results for samples SB-8 (2-3), SB-5 (16-18, and SB-5 (28-30) were estimated below the quantitation limits and were qualified "U," as undetected at the quantitation limits, because of laboratory contamination.

b. Calibrations (pp.V299-V300, V365-V367, V392-V393, V407, V420-V421): The continuing calibration percent differences (%Ds) for vinyl chloride and trichlorofluoromethane were greater than the quality control limit of 25% on 10/02/09 at 12:34 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The vinyl chloride and trichlorofluoromethane results for samples SS-2, SS-3, SS-4, SS-5, DUP-1, SB-3 (4-5), SB-17 (1-2), SB-5 (52-54), SB-5 (16-18), SB-5 (28-30), and SB-8 (2-3) were non-detect and were qualified "UJ," as estimates because of low instrument bias. No data qualifications were required for non-detect results in response to the %Ds that were greater than the quality control limit of 25% and sensitivity increased with respect to the initial calibration average relative response factors. The initial calibration relative standard deviation for acetone was greater than 30% on 09/24/09 on instrument HP5972-2. The positive result for acetone in sample SB-17 (1-2) was qualified "J," as an estimated concentration, because of calibration non-conformance.

   No data qualifications were required for non-detect results in response to the %Ds on 10/12/09 at 10:38 on instrument HP5972-2 that were greater than the quality control limit of 25% and sensitivity increased with respect to the initial calibration average relative response factors. The initial calibration relative standard deviations for acetone and methylene chloride were greater than 30% on 10/09/09 on instrument HP5972-2. The positive and non-detect results for acetone and methylene chloride in sample SB-7 (6-8) were qualified "J" and "UJ," as estimates, because of calibration non-conformance.

c. Matrix Spike Recoveries and RPDs (p.V6): Sample SB-3 (4-5) was designated in the field to be processed as the MS/MSD sample. The SB-3 (4-5) MS/MSD recoveries for 1,1-dichloroethene, and trichloroethene were less than the lower advisory limits. The 1,1-dichloroethene, and trichloroethene results for sample SB-3 (4-5) were non-detect and were qualified "UJ," as estimates, because of low bias attributable to matrix effects.

d. Dilutions and Reporting Limits (Form 1): Samples SB-5 (16-18) and SB-5 (28-30) required analysis at an initial ten-fold dilution and subsequent analysis using the medium-level methanol soil extraction (MLS) method to bring several target compound concentrations into the calibration range. The initial dilution elevated the quantitation limits and detection limits for these samples. The surrogate recoveries were acceptable. No data qualifications were required.

AECOM050

a. Blank Contamination (pp. V493, V499, V505, V516, V522): The common laboratory solvent methylene chloride was detected in the method blanks associated with the low-level soil (LLS) samples analyzed on 10/02/09, 10/06/09, 10/08/09, 10/12/09, and 10/13/09 at concentrations greater than the quantitation limit. All soil samples within this SDG were affected. The positive methylene chloride results for the soil samples were qualified "U" as undetected, because of laboratory contamination.

   The common laboratory solvent acetone was detected in the trip blank associated with the samples in this SDG and in the method blank associated with the samples analyzed on 10/06-07/09 at concentrations estimated below the quantitation limits. All soil samples within this SDG were affected. The positive acetone results estimated below the quantitation limits were qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

b. Surrogate Recoveries (pp. V3-V6): The 4-bromofluorobenzene surrogate recovery for sample SB-9 (4-5) was greater than the upper quality control limit. The surrogate recovery did not improve upon reanalysis on a different day. The positive results of the initial analysis of sample SB-9 (4-5) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recovery for sample SB-14 (1-2) was greater than the upper quality control limit. The surrogate recovery improved upon reanalysis at a dilution on a different day. The positive results of the initial (undiluted) analysis of sample SB-14 (1-2) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

   The 1,2-dichloroethane-d4 surrogate recovery for LLS sample SB-4 (1-2) was less than the lower quality control limit. The surrogate recoveries for the subsequent MLS analysis were within the quality control limits. The positive and non-detect LLS results for sample SB-4 (1-2) were qualified "J" and "UJ," as estimates, because of low bias attributable to matrix effects.

   The 1,2-dichloroethane-d4 and toluened-8 surrogate recoveries were less than the lower quality control limits and the 4-bromofluorobenzene surrogate recovery was greater than the upper quality control limit for LLS sample SB-13 (18-24). The 1,2-dichloroethane-d4 and 4-bromofluorobenzene surrogate recoveries for the subsequent MLS analysis were greater than the upper quality control limits. The positive and non-detect results for sample SB-13 (18-24) were qualified "J" and "UJ," as estimates, because of matrix effects.

   The 1,2-dichloroethane-d4 surrogate recoveries for LLS samples SB-10 (16-18) and SB-10 (40-41.5) were less than the lower quality control limit. The surrogate recoveries for the subsequent MLS analyses were within the quality control limits. The positive and non-detect LLS results for samples SB-10 (16-18) and SB-10 (40-41.5) were qualified "J" and "UJ," as estimates, because of low bias attributable to matrix effects.

c. Calibrations (pp.V337-V339, V385-V387, V433-V435, V439-V441, V445-447, V463-V465, V469-V471): The continuing calibration %Ds for vinyl chloride and trichlorofluoromethane were greater than the quality control limit of 25% on 10/02/09 at 12:34 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The vinyl chloride and trichlorofluoromethane results for samples SB-15 (3-4), SB-16 (2-3), and SB-18 (4-5) were non-detect and were qualified "UJ," as estimates because of low instrument bias. No data qualifications were required for non-detect results in response to the %Ds that were greater than the quality control limit of 25%, except for 2-butanone. Sensitivity increased with respect to the initial calibration average relative response factors and the 2-butanone results for samples SB-15 (3-4), SB-16 (2-3), and SB-18 (4-5) were qualified "J," as estimated concentrations, because of high instrument bias. The initial calibration relative standard deviation for acetone was greater than 30% on 09/24/09 on instrument

HP5972-2. The positive results for acetone in sample SB-15 (3-4), SB-16 (2-3), and SB-18 (4-5) were qualified "J," as estimated concentrations, because of calibration non-conformance.

The continuing calibration %Ds for chloromethane, dichlorodifluoromethande, vinyl chloride, chloroethane, trichlorofluoromethane, cyclohexane, methylcyclohexane, isopropylbenzene, and 1,2,4-trichlorobenzene were greater than the quality control limit of 25% on 10/06/09 at 22:18 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect chloromethane, dichlorodifluoromethande, vinyl chloride, chloroethane, trichlorofluoromethane, cyclohexane, methylcyclohexane, isopropylbenzene, and 1,2,4-trichlorobenzene results for associated samples SB-9 (4-5), SB-9 (20-21.5), SB-9 (36-38), SB-9 (40-42), SB-10 (3-4), SB-10(48-50), SB-13 (18-24), SB-14(1-2), SB-14B (11-13), SB-4 (1-2), SB-10 (16-18), SB-10 (40-41.5), and SB-12 (4-5) were qualified "J" and "UJ," as estimates, because of low instrument bias. The initial calibration relative standard deviation for acetone and methylcyclohexane were greater than 30% on 09/24/09 on instrument HP5972-2. The positive results for acetone and methylcyclohexane in samples SB-9 (4-5), SB-9 (20-21.5), SB-9 (40-42), SB-10 (3-4), SB-13 (18-24), SB-14(1-2), SB-4 (1-2), SB-10 (16-18), and SB-10 (40-41.5) were qualified "J," as estimated concentrations, because of calibration non-conformance.

The continuing calibration %D for bromomethane was greater than the quality control limit of 25% on 10/12/09 at 10:38 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. The non-detect bromomethane results for associated samples TP(7.0) and DUP-2 were qualified "UJ," as estimates, because of low instrument bias. The continuing calibration %Ds for methylcyclohexane and 1,2,4-trichlorobenzene were greater than the quality control limit of 25% on 10/12/09 at 10:38 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factors. Methylcyclohexane and 1,2,4-trichlorobenzene were not detected in associated samples TP(7.0) and DUP-2. No data qualifications were required in response to the high instrument bias.

The continuing calibration %Ds for chloromethane and bromomethane were greater than the quality control limit of 25% on 10/13/09 at 10:45 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factors. Chloromethane and bromomethane were not detected in associated sample TP(7.5). No data qualifications were required in response to the high instrument bias. The continuing calibration %D for methylene chloride was greater than the quality control limit of 25% on 10/13/09 at 10:45 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. The non-detect methylene chloride result for associated sample TP(7.5) was qualified "UJ," as an estimate, because of low instrument bias.

d. Matrix Spike Recoveries and RPDs (p.V7): Sample TP-3 (7.5) was designated in the field to be processed as the MS/MSD sample. The RPD between the TP-3 (7.5) MS/MSD recoveries for 1,1-dichloroethene was greater than the maximum advisory limit. The 1,1-dichloroethene result for sample TP-3 (7.5) was non-detect and was qualified "UJ," as an estimate, because of imprecision attributable to matrix effects.

e. Dilutions and Reporting Limits (Form 1): Samples SB-9 (20-21.5), SB-13 (18-24), and SB-4 (1-2) required analysis using the MLS method to bring several target compound concentrations into the calibration range.

Samples SB-9 (36-38) and SB-14B (11-13) required analysis at an initial LLS dilution analysis to bring one or more target compound concentrations into the calibration range. The initial dilution elevated the quantitation limits and detection limits for these samples.

Samples SB-10 (16-18) and SB-10 (40-41.5) required analysis at an initial LLS dilution analysis and analysis using the MLS method to bring one or more target compound concentrations into the

calibration range. The initial dilution elevated the quantitation limits and detection limits for these samples.

Samples SB-10 (3-4) and SB-14 (1-2) required analysis at a secondary dilution to bring the acetone concentration into the calibration range.

AECOM051

a. Sample Preservation (p. A14): Sample GW-1 contained small headspace bubbles (3 mm-4 mm in diameter) in both VOA vials. The positive volatile results in sample GW-1 were qualified were qualified "J" as estimated concentrations, because of low bias attributable to improper preservation. The nondetect volatile results in sample GW-1 were qualified "R" and are not usable for data quality objectives.

b. Blank Contamination (pp. V43, V90, V98): Carbon disulfide was detected in the method blank associated with the undiluted analysis of sample GW-1 (analyzed 10/2/09) at a concentration less than the quantitation limit. The positive estimated below the quantiton limit carbon disulfide result in sample GW-1 was qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

   1,2,4-Trichlorobenzene was detected in the trip blank associated with GW-1 at a concentration estimated below the quantitation limit. The positive 1,2,4-trichlorobenzene result estimated below the quantitation limit in sample GW-1 was qualified "U" as undetected at the quantitation limit, because of field blank contamination.

c. Surrogate Recoveries (pp. V3): The 4-bromofluorobenzene surrogate recovery for the undiluted analysis of sample GW-1 was greater than the upper quality control limit. The surrogate recoveries for the subsequent 100-fold dilution analysis were within the quality control limits. The positive undiluted results for sample GW-1 were qualified "J" as estimated concentrations, because of high bias attributable to matrix effects.

d. Calibrations (pp. V74-75, V80-81): The continuing calibration %Ds for 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, methylcyclohexane, and 1,2-dibromo-3-chloropropane were greater than the quality control limit of 25% on 10/02/09 at 14:17 on instrument HP5973I. Sensitivity increased with respect to the initial calibration average relative response factors. The positive 2-methyl-2-pentanone result for sample GW-1 was qualified "J," as an estimated concentration, because of high instrument bias. All other associated results were non-detect and did not require qualification in response to the high instrument bias.

   The continuing calibration %Ds for 1,1,2-trichloro-1,2,2-trifluoroethane, cyclohexane, 1,1,2,2,-tetrachlorethane, methylcyclohexane, and isopropylbenzene were greater than the quality control limit of 25% on 10/08/09 at 06:33 on instrument HP5973I. Sensitivity increased with respect to the initial calibration average relative response factors. All associated results were either non-detect (TB-092809 and SB-092809) or not reported (GW-1 dilution analysis) and did not require qualification in response to the high instrument bias.

e. Dilutions and Reporting Limits (Form 1): Sample GW-1 required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. The benzene, toluene, ethylbenzene, styrene, m&p-xylene, and o-xylene results were reported from this 100-fold dilution analysis. It should be noted that the styrene result was diluted to a level less than the lower calibration standard. The validator chose to report the dilution result because the undiluted concentration exceeded the calibration range by a factor of 3. This styrene concentration was qualified "J," as an estimated concentration, because the concentration was outside the calibration range. No further data qualifications were required.

AECOM056

a. Blank Contamination (pp. V420, V429, V438, V447, V457, V462): The common laboratory solvent methylene chloride was detected in the method blanks associated with the LLS samples analyzed on 10/06/09, 10/09/09, 10/12/09, 10/14/09, and 10/19/09 at concentrations greater than the quantitation limits. All soil samples within this SDG were affected. The positive methylene chloride results for the soil samples were qualified "U" as undetected, because of laboratory contamination.

   The common laboratory solvent acetone was detected in two of the three trip blanks associated with the samples in this SDG and the method blanks associated with the samples analyzed on 10/06/09, 10/16/09, and 10/19/09 at concentrations estimated below the quantitation limits. All soil samples within this SDG were affected. The positive acetone results estimated below the quantitation limits were qualified "U" as undetected at the quantitation limit, because of laboratory contamination. The positive acetone results for samples TP-2 (8.5) and TP-1 (9) were greater than the reporting limits and were qualified "J," as estimated concentrations, because of high bias attributable to laboratory contamination.

b. Surrogate Recoveries (pp. V3-V4): The 1,2-dichloroethane-d4 surrogate recovery for LLS sample SB-13 (12-14) was less than the lower quality control limit, but greater than 10%. The surrogate recoveries for the subsequent MLS analysis were within the quality control limits. The positive and non-detect LLS results for sample SB-13 (12-14) were qualified "J" and "UJ," as estimates, because of low bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recovery for sample SB-18 (12-14) was greater than the upper quality control limit. The surrogate recovery did not improve upon reanalysis on a different day. The positive results of the initial analysis of sample SB-18 (12-14) were reported with all positive results qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recovery for sample TP-2 (8.5) was greater than the upper quality control limit. The surrogate recovery did not improve upon reanalysis on a different day. The positive results of the reanalysis results of sample TP-2 (8.5) were reported with all positive results qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recovery for the MLS analysis for sample SB-11 (32-32.5) was greater than the upper quality control limit. The positive benzene, toluene, ethylbenzene, m,p-xylene, o-xylene, and isopropylbenzene results for SB-11 (32-32.5) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

c. Calibrations (pp. V286-V287, V313, V347-V348, V354-V355, V388-V389, V401-V402): The initial calibration relative standard deviations for acetone and methylcyclohexane were greater than 30% on 09/24/09 on instrument HP5972-2. The positive results for acetone in sample SB-13 (0-1) and for methylcyclohexane in sample SB-13 (12-14) were qualified "J," as estimated concentrations, because of calibration non-conformance.

   The continuing calibration %Ds for chloromethane, dichlorodifluoromethande, vinyl chloride, chloroethane, trichlorofluoromethane, cyclohexane, methylcyclohexane, isopropylbenzene, and 1,2,4-trichlorobenzene were greater than the quality control limit of 25% on 10/06/09 at 22:18 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect chloromethane, dichlorodifluoromethande, vinyl chloride, chloroethane, trichlorofluoromethane, cyclohexane, methylcyclohexane, isopropylbenzene, and 1,2,4-trichlorobenzene results for associated samples SB-13 (0-1) and SB-13 (12-14) were qualified "J" and "UJ," as estimates, because of low instrument bias.

   The continuing calibration %D for methylene chloride was greater than the quality control limit of 25% on 10/09/09 at 17:56 on instrument HP5972-2. Sensitivity decreased with respect to the initial

calibration average relative response factor. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The non-detect methylene chloride results for associated samples SB-18 (38-40), SB-18 (42-44), SB-15 (42-44), SB-12 (10-12.2), SB-15 (12-14) SB-15 (38-40), and SB-18 (12-14) were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for methylcyclohexane and 1,2,4-trichlorobenzene were greater than the quality control limit of 25% on 10/09/09 at 17:56 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factors. The positive methylcyclohexane result for sample SB-18 (12-14) was qualified "J," as an estimated concentration, because of high instrument bias. All other associated results were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration %Ds for methylene chloride and toluene were greater than the quality control limit of 25% on 10/14/09 at 13:57 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The positive and non-detect LLS methylene chloride and toluene results for associated samples SB-11 (16-18), SB-11 (32-32.5), SB-11 (54-56), TP-2 (8.5), TP-2 (9), and DUP-3 were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for methylene chloride and carbon disulfide were greater than the quality control limit of 25% on 10/19/09 at 14:35 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The methylene chloride and carbon disulfide results for associated samples SB-2B (5) and SB-6 (6) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for bromoform and methylcyclohexane were greater than the quality control limit of 25% on 10/19/09 at 14:35 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factor. The bromoform and methylcyclohexane results for associated samples SB-2B (5) and SB-6 (6) were non-detect and no data qualifications were required in response to the high instrument bias.

d. Dilutions and Reporting Limits (Form 1): Sample SB-13 (12-14) required analysis at an initial LLS dilution and required subsequent analysis using the MLS method to bring several target compound concentrations into the calibration range. Isopropylbenzene was diluted out in the MLS analysis. The original isopropylbenzene result was reported and qualified "J," as an estimated concentration, because the calibration range was exceeded. The details are provided in the table below. The initial ten-fold dilution elevated the detection and reporting limits.

Field ID	Lab ID	Analyte	Original Results Over-range (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results	Validation Qualifier
SB-13(12-14)	0910783-002	Isopropylbenzene	3600	E	10	3600	J

Samples SB-13 (12-14), SB-12 (10-12.2), SB-18 (12-14), SB-11 (16-18), SB-11 (32-32.5), TP-2 (8.5), and TP-1 (9) required analysis at an initial LLS dilution analysis to bring one or more target compound concentrations into the calibration range and/or to minimize matrix interference. The initial dilution elevated the quantitation limits and detection limits for these samples.

Samples SB-15 (12-14) and SB-15 (38-40) required analysis at an initial LLS dilution analysis and subsequent analysis using the MLS method to bring one or more target compound concentrations into the calibration range. The initial dilution elevated the quantitation limits and detection limits for these samples.

AECOM057

a. Sample Preservation (pp. A4, A19): Trip blank sample TB100909 contained small headspace bubbles (6 mm-7 mm in diameter) in both VOA vials. The positive volatile results in sample TB100909 were qualified were qualified "J" as estimated concentrations, because of low bias attributable to improper preservation. The nondetect volatile results in sample TB100909 were qualified "R" and are not usable for data quality objectives. Also note that per the chain-of-custody, the sampling date for sample TB100909 was listed as September 28, 2009, thus the 14-day holding time was exceeded by 3 days. This collection date is most likely inaccurate because all samples on the same COC were collected October 7-8, 2009. No validation actions were required since all VOC results in sample TB100909 were either estimated or rejected for headspace bubbles.

b. Blank Contamination (pp. V358, V367, V376, V381, V386): The common laboratory solvent methylene chloride was detected in the method blanks associated with the LLS samples analyzed on 10/14/09, 10/23/09, 10/30/09, and 11/11/09 at concentrations greater than the quantitation limits. All soil samples within this SDG were affected. The positive methylene chloride results for all soil samples were qualified "U" as undetected, because of laboratory contamination.

   The common laboratory solvent acetone was detected in trip blank sample TB100909 and the method blanks associated with the LLS samples analyzed on 10/23/09 and 11/11/09 at concentrations estimated below the quantitation limits. The positive acetone results estimated below the quantitation limits were qualified "U" as undetected at the quantitation limit, because of laboratory contamination. The positive acetone result for samples SB-4 (36-38), SB-4 (44-46), TP-1 (12), SB-2B (14-16), SB-2B (37-38), SB-2B (42-44), SB-14B (38-40), SB-16B (44-46), SB-6 (26-28), SB-6 (30-32), SB-12B (40-42), and SB-12B (48-50) were greater than the reporting limits and were qualified "J," as estimated concentrations, because of high bias attributable to field/laboratory contamination.

   The common laboratory solvent methylene chloride and 2-butanone were detected in the method blank associated with the MLS samples analyzed on 10/26/09 at concentrations less than the quantitation limits. No validation actions were required because these compounds were not reported from the MLS analysis for any soil samples.

c. Surrogate Recoveries (p. V3): The 1,2-dichloroethane-d_4 surrogate recovery for LLS sample SB-14B (20-22) and the 1,2-dichloroethane-d_4 and toluene-d_8 surrogate recoveries for LLS sample SB-14B (38-40) were less than the lower quality control limit, but greater than 10%. The surrogate recoveries for the subsequent MLS analysis were within the quality control limits. The positive and non-detect LLS results for samples SB-14B (20-22) and SB-14B (38-40) were qualified "J" and "UJ," as estimates, because of low bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recoveries for samples SB-2B (37-38) and SB-14B (54-56) were greater than the upper quality control limit. The surrogate recoveries for the subsequent MLS analysis for sample SB-2B (37-38) were within the quality control limits. The surrogate recoveries for sample SB-14B (54-56) were not confirmed by re-analysis. The positive results of the initial analysis of samples SB-2B (37-38) and SB-14B (54-56) were reported with all positive results qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

d. Laboratory Control Sample Recoveries (pp. V6-V8): The LLS LCS (LFB101409) recoveries for dibromochloromethane, bromoform, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane; and the MLS LCS (LFB102609M) recovery for 1,1,1-trichloroethane were greater than the upper quality control limits. All associated results were non-detect and did not require qualification in response to the high method bias.

e. Internal Standard Area Counts (p. V33): The bromochloromethane, 1,4-difluorobenzene, and chlorobenzene-d_5 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-12B (40-42) were less than the lower quality control limit, but greater than 25%. The internal standard

recoveries for the subsequent dilution analysis were within the quality control limits. The positive and non-detect VOC results in sample SB-12B (40-42) were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference.

f. Calibrations (pp. V251, V278, V305-V306, V311, V323, V335-V336, V341): The initial calibration relative standard deviations for methylene chloride and acetone were greater than 30% on 10/09/09 and 11/4/09 on instrument HP5972-2. The positive results for methylene chloride and acetone in samples SB-4 (36-38), SB-4 (44-46), TB-1 (12), SB-2B (14-16), SB-2B (37-38), SB-2B (42-44), SB-14B (20-22), SB-14B (38-40), SB-16B (44-46), SB-6 (16-18), SB-6 (26-28), SB-6 (30-32), SB-12B (40-42), and SB-12B (48-50) and for methylene chloride in samples SB-1 (5), SB-14B (54-56), and SB-16B (30-32) were qualified "J," as estimated concentrations, because of calibration non-conformance.

The continuing calibration %Ds for methylene chloride and toluene were greater than the quality control limit of 25% on 10/14/09 at 13:57 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The positive and non-detect LLS methylene chloride and toluene results for associated samples SB-4 (44-46), SB-4 (36-38), and TB-1 (12) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for dichlorodifluoromethane and bromomethane were greater than the quality control limit of 25% on 10/15/09 at 8:55 on instrument HP5971. Sensitivity decreased with respect to the initial calibration average relative response factors. No validation actions were required because both the dichlorodifluoromethane and bromomethane results in sample TB100909 were previously rejected for headspace bubbles.

The continuing calibration %D for methylene chloride was greater than the quality control limit of 25% on 10/23/09 at 16:37 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The positive methylene chloride results for associated samples SB-2B (14-16), SB-2B (37-38), SB-14B (20-22), SB-16B (44-46), SB-6 (30-32), SB-6 (26-28), SB-2B (42-44), SB-6 (16-18), SB-14B (38-40), and SB-16B (30-32) were qualified "J," as estimates, because of low instrument bias.

The continuing calibration %D for bromoform was greater than the quality control limit of 25% on 10/09/09 at 16:37 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factor. All associated results were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration %Ds for chloromethane, dichlorodifluoromethane, vinyl chloride, methylene chloride, trichlorofluoromethane, and carbon disulfide were greater than the quality control limit of 25% on 10/30/09 at 19:54 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect chloromethane, dichlorodifluoromethane, vinyl chloride, methylene chloride, trichlorofluoromethane, and carbon disulfide results for associated samples SB-1((5) and SB-14B (54-56) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for 1,2,4-trichlorobenzene was greater than the quality control limit of 25% on 10/30/09 at 19:54 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factor. All associated results were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration %D for trans-1,2-dichloroethene was greater than the quality control limit of 25% on 11/11/09 at 8:28 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factor. All associated results in samples SB-12B (48-50) and

SB-12B (40-42) (undiluted and dilution analysis) were non-detect and did not require qualification in response to the high instrument bias.

g. Percent Solids (Form 1s): Sample SB-14B (20-22) had percent solids <50%. All VOC results in sample SB-14B (20-22) were qualified "J and UJ", as estimated concentrations attributable to sample heterogeneity.

h. Dilutions and Reporting Limits (Form 1): Samples SB-2B (14-16) and SB-14B (20-22) required analysis at an initial LLS dilution and required subsequent analysis using the MLS method to bring several target compound concentrations into the calibration range. The acetone result in sample SB-14B (20-22) was diluted out in the MLS analysis. The original acetone result was reported and qualified "J," as an estimated concentration, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results Over-range (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-14B (20-22)	0911468-002	Acetone	790	E	1	790	J

Samples SB-2B (37-38), SB-14B (38-40), and SB-16B (30-32) required analysis at an initial 5-fold dilution and required further analysis using the MLS method to bring several target compound concentrations into the calibration range and/or minimize matrix interference. The initial five-fold dilution elevated the detection and reporting limits. The benzene result in sample SB-2B (37-38) and the isopropylbenzene result in sample SB-16B (30-32) were greater than the calibration range in the 5-fold dilution analysis but were diluted to a level less than the lower calibration standard in the MLS analysis. The MLS analysis results were reported and were qualified "J," as estimated concentrations because the concentrations were less than the lowest calibration standard. The styrene and isopropylbenzene results in sample SB-2B (37-38), the isopropylbenzene result in sample SB-14B (38-40), and the benzene and toluene results in sample SB-16B (30-32) were diluted out in the MLS analysis. The original benzene, toluene, styrene, and isopropylbenzene results were reported and qualified "J," as estimated concentrations, because the calibration ranges were exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-2B (37-38)	0911284-002	Styrene	1,500	E	5	1,500	J
		Isopropylbenzene	2,300	E	5	2,300	J
SB-14B (38-40)	0911468-003	Isopropylbenzene	5,700	E	5	5,700	J
SB-16B (30-32)	0911468-005	Benzene	6,200	E	5	6,200	J
		Toluene	1,200	E	5	1,200	J

Sample SB-12B (40-42) required analysis at an initial LLS dilution and required a further 10-fold dilution analysis to bring several target compound concentrations into the calibration range. No data qualifications were required.

AECOM058

a. Blank Contamination (pp. V431, V433, V447, V449, V458, V469, V476, V478, V485): The common laboratory solvent methylene chloride was detected in the method blanks associated with the LLS samples analyzed on 10/23/09, 10/30/09, and 11/04/09 at concentrations greater than the quantitation limits. The positive methylene chloride results for all soil samples were qualified "U" as undetected, because of laboratory contamination.

The common laboratory solvent acetone was detected the method blank associated with the LLS samples analyzed on 10/23/09 at a concentration estimated below the quantitation limits. The positive acetone results estimated below the quantitation limits were qualified "U" as undetected at the quantitation limit, because of laboratory contamination. The positive acetone result for samples SB-3 (36-38) and SB-8 (24-26) were greater than the reporting limits and were qualified "J," as estimated concentrations, because of high bias attributable to laboratory contamination.

The common laboratory solvent methylene chloride and 2-butanone were detected in the method blank associated with the MLS samples analyzed on 10/26/09 and 2-butanone was detected in the MLS method blank analyzed on 11/03/09 at concentrations less than the quantitation limits. No validation actions were required because these compounds were not reported from the MLS analysis for any soil samples.

Several Tentatively Identified Compounds (TICs) were detected in LLS method blanks analyzed on 10/23/09 and 11/03/09, in MLS method blanks analyzed on 10/26/09 and 11/03/09, and in trip blank sample TB102209. These TICs were either not detected in the original analysis or not reported from the dilution analysis. No data qualifications were required.

b. Surrogate Recoveries (p. V3): The 1,2-dichloroethane-d_4 surrogate recoveries for LLS samples SB-3 (36-38) and SB-8 (24-26) were less than the lower quality control limit, but greater than 10%. The surrogate recoveries for the subsequent MLS analysis were within the quality control limits. The positive and non-detect LLS results for samples SB-3 (36-38) and SB-8 (24-26) were qualified "J" and "UJ," as estimates, because of low bias attributable to matrix effects.

   The 4-bromofluorobenzene surrogate recovery for sample SB-17 (16-18) was greater than the upper quality control limit. The surrogate recoveries for the subsequent MLS analysis were within the quality control limits. The positive results of the initial analysis of sample SB-17 (16-18) were reported with all positive results qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

c. Laboratory Control Sample Recoveries (p. V8): The MLS LCS (LFB102609M) recovery for 1,1,1-trichloroethane were greater than the upper quality control limit. All associated results were non-detect and did not require qualification in response to the high method bias.

d. Calibrations (pp. V325, V352, V379, V397-V398, V403, V415): The initial calibration relative standard deviations for methylene chloride and acetone were greater than 30% on 10/09/09 and 11/4/09 on instrument HP5972-2. The positive results for methylene chloride and acetone in all soil samples were qualified "J," as estimated concentrations, because of calibration non-conformance.

   The continuing calibration %D for methylene chloride was greater than the quality control limit of 25% on 10/23/09 at 16:37 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. Note: The 10/09/09 initial calibration RSD for methylene chloride was greater than 30%. The positive methylene chloride results for associated samples SB-3 (46-48), SB-3 (36-38), and SB-8 (24-26) were qualified "J," as estimates, because of low instrument bias.

   The continuing calibration %D for bromoform was greater than the quality control limit of 25% on 10/09/09 at 16:37 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factor. All associated results were non-detect and did not require qualification in response to the high instrument bias.

   The continuing calibration %Ds for chloromethane, dichlorodifluoromethane, vinyl chloride, methylene chloride, trichlorofluoromethane, and carbon disulfide were greater than the quality control limit of 25% on 10/30/09 at 19:54 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect chloromethane,

dichlorodifluoromethane, vinyl chloride, methylene chloride, trichlorofluoromethane, and carbon disulfide results for associated samples SB-17 (36-38) and SB-17 (16-18) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for 1,2,4-trichlorobenzene was greater than the quality control limit of 25% on 10/30/09 at 19:54 on instrument HP5972-2. Sensitivity increased with respect to the initial calibration average relative response factors. All associated results were non-detect and did not require qualification in response to the high instrument bias.

The continuing calibration %D for methylene chloride was greater than the quality control limit of 25% on 11/04/09 at 23:16 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factor. Note: The 11/04/09 initial calibration RSD for methylene chloride was greater than 30%. The positive methylene chloride results for associated samples SB-17 (40-42), SB-7 (38-40), and SB-7 (44-46) were qualified "J," as estimates, because of low instrument bias.

The continuing calibration %D for dichlorodifluoromethane was greater than the quality control limit of 25% on 11/11/09 at 11:31 on instrument HP5971. Sensitivity decreased with respect to the initial calibration average relative response factor. The non-detect dichlordifluoromethane results for associated samples FB110409 and TB110409 were qualified "UJ," as estimates, because of low instrument bias.

Dilutions and Reporting Limits (Form 1): Samples SB-17 (16-18) and SB-17 (36-38) required analysis at an initial 5x dilution and required further required analysis using the MLS method to bring several target compound concentrations into the calibration range and/or minimize matrix interference. The validator chose to report the m&p-xylene result for sample SB-17 (16-18) from the MLS analysis even though it did not exceed the calibration range in the initial 5x dilution since there may have been some matrix interference in the initial analysis. No data qualifications were required.

Samples SB-3 (36-38) and SB-8 (24-26) required analysis at an initial 10-fold dilution and required further analysis using the MLS method to bring several target compound concentrations into the calibration range and/or minimize matrix interference. The MLS analysis for samples SB-3 (36-38) and SB-8 (24-26) were further diluted 50-fold. The initial ten-fold dilution elevated the detection and reporting limits. The isopropylbenzene result in sample SB-8 (24-26) was greater than the calibration range in the 10-fold dilution analysis but was diluted to a level less than the lower calibration standard in the MLS analysis. The MLS analysis result was reported and was qualified "J," as an estimated concentration because the concentration was less than the lowest calibration standard. The isopropylbenzene result in sample SB-3 (36-38) was diluted out in the MLS analysis. The original isopropylbenzene result was reported and qualified "J," as an estimated concentration, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-3 (36-38)	0911469-001	Isopropylbenzene	2,300	E	10	2,300	J

AECOM062

a. Blank Contamination (pp. V141, V146): The common laboratory solvent methylene chloride was detected in the method blanks associated with the LLS samples analyzed on 11/30/09 at a concentration less than the quantitation limit. All soil samples within this SDG were affected. The positive methylene chloride results for the soil samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were qualified "U" as undetected, because of laboratory contamination.

The common laboratory solvent methylene chloride and methyl acetate were detected in the method blanks associated with MLS samples analyzed on 11/30/09 at concentrations estimated below the quantitation limits. No actions were required because neither compound was reported from the MLS analysis.

b. Laboratory Control Sample Recoveries (pp. V9): The LCS (LFB113009M) recovery for bromomethane was less than the lower quality control limit. No actions were required since this compound was not reported from the MLS analysis.

c. Matrix Spike Recoveries and RPDs (p. V5): Sample SB-1C (23-25) was designated in the field to be processed as the MS/MSD sample. The 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene recoveres were less than the lower advisory limits. The non-detect 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene results for sample SB-1C (23-25) were qualified "UJ," as estimated concentrations, because of low bias, attributable to matrix effects.

d. Calibrations (pp. V70, V124-125, V130-131): The initial calibration relative standard deviations for methylene chloride and acetone were greater than 30% on 11/4/09 on instrument HP5972-2. The positive results for methylene chloride in samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) and for acetone in samples SB-1C (23-25) and SB-1C (98-100) were qualified "J," as estimated concentrations, because of calibration non-conformance.

The continuing calibration %Ds for chloromethane, dichlorodifluoromethande, vinyl chloride, methylene chloride, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone were greater than the quality control limit of 25% on 11/30/09 at 12:51 on instrument HP5972-2. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect chloromethane, dichlorodifluoromethane, vinyl chloride, methylene chloride, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone results for associated LLS samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were qualified "J" and "UJ," as estimates, because of low instrument bias.

e. Dilutions and Reporting Limits (Form 1): Samples SB-1C (80-81.5) and SB-1C DUP01 (112009) required analysis at an initial LLS dilution and required analysis using the MLS method to bring several target compound concentrations into the calibration range and/or minimize matrix interference. The initial ten-fold dilution elevated the detection and reporting limits.

AECOM063

a. Sample Preservation (p. A20): The cooler temperature exceeded preservation criteria of 4°C±2°C for samples MW1C121409, MW1B121409, and MW1A121409 (10-11°C). No data qualification was required because the samples were received on ice.

b. Blank Contamination (pp. V221, V290, V296-V298): Tetrachloroethene, 1,2,4-trichlorobenzene, and the tentatively identified compound (TIC) sulfur dioxide were detected in the method blank associated with dilution analysis samples analyzed on 12/23/09 and TIC sulfur dioxide was detected in the method blank associated with LLW samples analyzed on 12/22/09. Tetrachloroethene, 1,2,4-trichlorobenzene, and sulfur dioxide were either not detected in the undiluted LLW analysis or not reported from the dilution analyses. No data qualifications were required.

TIC compound sulfur dioxide was detected in trip blank sample TB121609 associated with samples MW3A121609, MW4A121609, and MW4A121609D. Sulfur dioxide was not detected in the undiluted LLW analysis or not reported from the dilution analyses. No data qualifications were required.

c. Matrix Spike Recoveries and RPDs (p.V4): Sample MW3A121609 was designated in the field to be processed as the MS/MSD sample. The MW3A121609 MS/MSD recoveries for benzene were less

than the lower advisory limits. The positive benzene result for sample MW3A121609 was qualified "J," as an estimate, because of low bias attributable to matrix effects.

d. Laboratory Control Sample Recoveries (p. V5): The LCS (LFB122109) recovery for acetone was greater than the upper quality control limit. The positive acetone results for samples MW3C121509, MW4A121609, and MW4A121609D were qualified "J," as estimated concentrations, because of high method bias.

e. Calibrations (pp. V255, V262, V269-270): The continuing calibration %D for bromomethane was greater than the quality control limit of 25% on 12/22/09 at 09:50 on instrument HP5971. Sensitivity decreased with respect to the initial calibration relative response factor. The bromomethane results for associated samples MW3A121609 and TB121609 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for cyclohexane and methylcyclohexane were greater than the quality control limit of 25% on 12/23/09 at 11:07 on instrument HP5971. Sensitivity decreased with respect to the initial calibration relative response factors. The cyclohexane and methylcyclohexane results for associated dilution analysis samples MW4A121609, MW4A121609D, and MW3C121509 were not reported. Therefore, no data qualifications were required.

The continuing calibration %Ds for trichlorofluoromethane were greater than the quality control limit of 25% on 12/21/09 at 11:28, 12/22/09 at 09:50, and 12/23/09 at 11:07 on instrument HP5971 and for 1,2-dichloroethane on 12/23/09 at 11:07 on instrument HP5971. Sensitivity increased with respect to the initial calibration average relative response factors. Trichlorofluoromethane and 1,2-dichlorethane were not detected in any of the associated samples in this SDG. No data qualifications were required in response to the high instrument bias.

f. Dilutions and Reporting Limits (Form 1): Samples MW4A121609, MW4A121609D, and MW3C121509 required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. The surrogate recoveries were acceptable for the initial dilution analyses. No data qualifications were required.

AECOM064

a. Blank Contamination (pp. V286-V287): Tetrachloroethene and 1,2,4-trichlorobenzene were detected in the method blank associated with the LLW samples analyzed on 12/23/09 at concentrations estimated below the quantitation limits. Tetrachloroethene and 1,2,4-trichlorobenzene were either not required for the dilution analyses performed on 12/23/09 or the results were greater than ten times the blank level. No data qualifications were required.

Chloromethane was detected in the field blank SB-121409-2 at a concentration estimated below the quantitation limit. All samples within this SDG were affected. The positive chloromethane results for samples MW7A121509, MW7B121509, MW5A121609, MW5B121609, and PW1121609 were estimated below the quantitation limit and were qualified "U," as undetected at the quantitation limit, because of ambient contamination.

b. Laboratory Control Sample Recoveries (pp. V4-V5): The LCS (LFB122109) recovery for acetone was greater than the upper quality control limit. The positive acetone results for samples MW6B121409, MW4B121509, MW2A121609, and MW5B121609 were qualified "J," as estimated concentrations, because of high method bias.

c. Calibrations (pp. V247-V248, V254-V255, V261-V262): The continuing calibration %D for bromomethane was greater than the quality control limit of 20% on 12/22/09 at 09:50 on instrument HP5971. Sensitivity decreased with respect to the initial calibration relative response factor. The bromomentane results for associated samples TB121509, MW2A121609, MW2B121609,

MW5A121609, MW5B121609, and PW1121609 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for trichlorofluoromethane were greater than the quality control limit of 25% on 12/21/09 at 11:28 and 12/22/09 at 09:50 on instrument HP5971. Sensitivity increased with respect to the initial calibration average relative response factors. All undiluted analyses were affected. Trichlorofluoromethane was not detected in any of the field samples in this SDG. No data qualifications were required in response to the high instrument bias.

Dilutions and Reporting Limits (Form 1): Samples MW2B121609, MW5A121609, MW5B121609, MW4B121509, MW4C121509, MW4C121509D, MW7B121509, and PW121609 required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. The surrogate recoveries were acceptable for the initial undiluted analyses. No data qualifications were required.

2.0 Semivolatile Organic Compounds

AECOM049

a. Blank Contamination (pp. B757-B759): Di-n-butyl phthalate was detected in the method blank MB-33167 extracted on 10/07/09 at a concentration estimated below the quantitation limit. Based on professional judgment, all samples within this SDG were evaluated for di-n-butyl phthalate contamination because they were all extracted using the same method. The positive di-n-butyl phthalate results for the soil samples SS-2, SS-3, SS-5, DUP-1, SB-8(2-3) and SB-7(6-8) were qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

   The common extraction contaminant bis(2-ethylhexyl)phthalate was detected in the equipment (rinsate) blank RB-100509 at a concentration estimated below the quantitation limit. All samples within this SDG were affected. The positive bis(2-ethylhexyl)phthalate results for samples SB-3(4-5) and SB-5(28-30) were estimated below the quantitation limit and were qualified "U" as undetected at the quantitation limit. The positive bis(2-ethylhexyl)phthalate results for SS-2, SS-3, SS-4, SS-5, DUP-1, and SB-17(1-2) were greater than the quantitation limits and were qualified "J," as biased high because of ambient contamination. The positive bis(2-ethylhexyl)phthalate results for samples SB-8(2-3) and SB-7(6-8) required quantitation using a secondary dilution analysis and were greater than ten times the blank level and were not qualified.

b. Internal Standard Area Counts (pp. B40-B41, B45): The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-7(6-8) was less than the lower quality control limit, but greater than 25%. The SB-7(6-8) results for di-n-octylphthalate, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were positive and quantitated using this internal standard. These results were qualified "J," as estimated concentrations, because of instrument instability attributable to matrix interference.

   The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-17(1-2) was less than the lower quality control limit, but greater than 25%. The SB-17(1-2) results for di-n-octylphthalate and, dibenzo(a,h)anthracene were quantitated using this internal standard. The non-detect results for di-n-octylphthalate was qualified "UJ" and the positive result for dibenzo(a,h)anthracene was qualified "J," as estimates, because of instrument instability attributable to matrix interference.

   The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-5(16-18) were less than the lower quality control limits. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-5(16-18) results: nitrobenzene through 4-chloro-3-methylphenol, pyrene through bis(2-ethylhexyl)phthalate that were quantitated using the nonconforming internal standards were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results quantitated using the perylene-d12 internal standard were qualified "J" and "R," as estimates and rejected because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

c. Laboratory Control Sample Recoveries (pp. B5-B7, B9-B17): All LCS benzaldehyde recoveries were less than the lower quality control limit, but greater than 10%. All soil samples within this SDG were affected. The benzaldehyde results for all associated soil samples were non-detect and were qualified "UJ," as estimates, because of low method bias.

   The LCS (LFB-33232) recovery for 4,6-dinitro-2-methylphenol was greater than the upper quality control limit. 4,6-Dinitro-2-methylphenol was not detected in associated sample SB-7(6-8). No data qualification was required in response to the high method bias.

d. Calibrations (pp. B629-B631, B682, B690, B707): The continuing calibration %D for benzaldehyde was greater than the quality control limit of 25% on 10/09/09 at 10:59, 10/22/09 at 17:01, and 10/16/09 at 16:57 on instrument HP5973N. Sensitivity decreased with respect to the initial calibration average relative response factor. The benzaldehyde results for samples SS-2, DUP-1, SB-3 (4-5), SB-17 (1-2), SB-5 (52-54), SB-5 (16-18), SB-5 (28-30), SB-7(6-8) and SB-8 (2-3) were non-detect and were qualified "UJ," as estimates because of low instrument bias.

e. Surrogate Recoveries (pp. B656-B657): The 4-terphenyl-d14 surrogate recoveries for samples SB-17(1-2) and SB-5(16-18) were greater than the upper quality control limit. The surrogates were diluted out in the reanalysis at a secondary dilution. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

f. Dilutions (Form 1s): Sample SB-5(16-18) was analyzed at a 400-fold dilution to bring several target compound concentrations into the calibration range. The concentrations for dibenzofuran, benzo(b)fluoranthene, and benzo(a)pyrene originally exceeded the calibration range and were diluted out in the subsequent 400-fold dilution analysis. The original results were reported for dibenzofuran, benzo(b)fluoranthene, and benzo(a)pyrene and qualified "J," as estimated concentrations, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-5(16-18)	0910781-001	Dibenzofuran	8800	E	1	8800	J
		Benzo(b)fluoranthene	22000	E	1	22000	J
		Benzo(a)pyrene	25000	E	1	25000	J

Samples SS-3, SS-4, SB-5(28-30), SB-8(2-3) and SB-7(6-8) required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. Several compounds were diluted to levels less than the lower calibration standard. These higher of the two concentrations were reported and qualified "J," as estimated concentrations, because the concentration was outside the calibration range.

AECOM050

a. Blank Contamination (pp. B624-B625): Di-n-butyl phthalate was detected in the method blank MB-33167 extracted on 10/07/09 at a concentration estimated below the quantitation limit. Based on professional judgment, all samples within this SDG were evaluated for di-n-butyl phthalate contamination because they were all extracted using the same method. The positive di-n-butyl phthalate results for the soil samples SB-15 (3-4), SB-16(2-3), SB-18 (4-5), SB-9 (4-5), SB-10 (3-4), SB-14 (1-2), DUP-2, and TP-3 (7.0) were qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

The common extraction contaminant bis(2-ethylhexyl)phthalate was detected in the equipment (rinsate) blank RB-100509 at a concentration estimated below the quantitation limit. All samples within this SDG were affected. The positive bis(2-ethylhexyl)phthalate results for samples SB-9 (40-42), SB-10 (48-50), SB-14B (11-13), DUP-2, TP-3 (7.0), TP-3 (7.5) were estimated below the quantitation limit and were qualified "U" as undetected at the quantitation limit because of ambient contamination.

b. Internal Standard Area Counts (pp. B33, B38-B41, B43): The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-18(4-5) was less than the lower quality control limit, but greater than 25%. The SB-18(4-5) results for di-n-octylphthalate, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were positive and quantitated using this internal

standard. These results were qualified "J," as estimated concentrations, because of instrument instability attributable to matrix interference.

The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-9(4-5) was less than the lower quality control limit, but greater than 25%. The SB-9(4-5) results for di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were positive and quantitated using this internal standard. These results were qualified "J," as estimated concentrations, because of instrument instability attributable to matrix interference.

The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-10(3-4) was less than the lower quality control limit, but greater than 25%. The SB-10(3-4) results for di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were positive and quantitated using this internal standard. These results were qualified "J," as estimated concentrations, because of instrument instability attributable to matrix interference.

The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-10(16-18) were less than the lower quality control limit. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-10(16-18) results: nitrobenzene through 4-chloro-3-methylphenol, pyrene through bis(2-ethylhexyl)phthalate that were quantitated using the nonconforming internal standards were non-detect and were qualified "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results (di-n-octylphthalate through benzo(g,h,i)perylene) quantitated using the perylene-d12 internal standard were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-10(40-41.5) were less than the lower quality control limit. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-10(40-41.5) results: nitrobenzene through 4-chloro-3-methylphenol, pyrene through bis(2-ethylhexyl)phthalate that were quantitated using the nonconforming internal standards were non-detect and were qualified "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results (di-n-octylphthalate through benzo(g,h,i)perylene) quantitated using the perylene-d12 internal standard were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-13(18-24) was less than the lower quality control limit, but greater than 25%. The positive and non-detect SB-13(18-24) results for di-n-octylphthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference.

c. Laboratory Control Sample Recoveries (pp. B7-B18): All LCS benzaldehyde recoveries were less than the lower quality control limit, but greater than 10%. All soil samples within this SDG were affected. The benzaldehyde results for all associated soil samples were non-detect and were qualified "UJ," as estimates, because of low method bias.

d. Surrogate Recoveries (pp. B3-B4): The 4-terphenyl-d14 surrogate recoveries for samples SB-4(1-2), SB-10(40-41.5), SB-18(4-5) and SB-10(16-18) were greater than the upper quality control limit. The surrogates were diluted out in the reanalysis at a secondary dilution. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

e. Dilutions (Form 1s): Samples SB-15(3-4), SB-13(18-24), SB-14B(11-13), SB-4(1-2), SB-10(16-18), and SB-10(40-41.5), were analyzed at a secondary dilution to bring one or more target compound concentrations into the calibration range. The concentrations originally exceeded the calibration range and were diluted out in the subsequent dilution analysis. The original results were reported and qualified "J," as estimated concentrations, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-15(3-4)	0910529-001	Benzo(b)fluoranthene	8200	E	1	8200	J
SB-13(18-24)	0910682-007	Benzo(b)fluoranthene	760000	E	10	760000	J
SB-14B(11-13)	0910682-009	Benzo(a)anthracene	12000	E	1	12000	J
		Benzo(b)fluoranthene	6600	E	1	6600	J
SB-4(1-2)	0910782-001	Phenol	17000	E	1	17000	J
		2,4-Dimethylphenol	24000	E	1	24000	J
		Acenaphthene	36000	E	1	36000	J
		Dibenzo(a,h)anthracene	29000	E	1	29000	J
SB-10(16-18)	0910782-002	Dibenzofuran	16000	E	1	16000	J
		Benzo(k)fluoranthene	11000	E	1	11000	J
		Indeno(1,2,3-cd)pyrene	9100	E	1	9100	J
		Benzo(g,h,i)perylene	9200	E	1	9200	J
SB-10(40-41.5)	0910782-003	Dibenzofuran	37000	E	1	37000	J
		Benzo(b)fluoranthene	65000	E	1	65000	J
		Benzo(k)fluoranthene	27000	E	1	27000	J
		Indeno(1,2,3-cd)pyrene	16000	E	1	16000	J
		Benzo(g,h,i)perylene	17000	E	1	17000	J

Samples SB-9(36-38), SB-13(18-24), SB-4(1-2), and SB-12(4-5) required analysis at a secondary dilution to bring one or more target compound concentrations into the calibration range. One or more compounds were diluted to levels less than the lower calibration standard. The higher of the two concentrations was reported and was qualified "J," as an estimated concentration, because the concentration was outside the calibration range.

Samples SB-16(2-3) SB-18(4-5), SB-9(4-5), SB-10(3-4), and DUP-2 required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Sample SB-13(18-24) was analyzed at an initial ten-fold dilution because of the high target analyte concentrations. The initial dilution elevated the detection limits and the reporting limits.

AECOM051

a. Laboratory Control Sample Recoveries (pp. B4-5): The caprolactam recovery was less than the lower quality control limit, but greater than 10%. The non-detect caprolactam result for sample GW-1 was qualified "UJ," as an estimate, because of low method bias.

The 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol recoveries were greater than the upper quality control limit. 2-4-Dinitrophenol and 4,6-dinitro-2-methylphenol were not detected in sample GW-1. No data qualifications were required.

b. Calibrations (p.B47): The initial calibration relative standard deviation for 2-4-dinitrophenol was greater than 30% on 10/01/09 on instrument HP5973N. No data qualification was required since the 2,4-dinitrophenol in sample GW-1 was non-detect.

c. Dilutions (Form 1s): GW-1 was analyzed at a secondary dilution to bring one or more target compound concentrations into the calibration range. The concentrations originally exceeded the calibration range and were diluted out in the subsequent dilution analysis. The original results were reported and qualified "J," as estimated concentrations, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
GW-1	0910683-001	2,4-Dimethylphenol	83	E	400	83	J
		1,1'Biphenyl	140	E	400	140	J
		Fluorene	190	E	400	190	J
		Anthracene	91	E	400	91	J
		Fluoranthene	86	E	400	86	J
		Pyrene	130	E	400	130	J

Sample GW-1 required analysis at a secondary dilution to bring one or more target compound concentrations into the calibration range. Acenaphthylene and phenanthrene were diluted to levels less than the lower calibration standard. The higher of the two concentrations was reported and was qualified "J," as an estimated concentration, because the concentration was outside the calibration range.

AECOM056

a. Blank Contamination (pp. B455-B456): Di-n-butyl phthalate was detected in the method blank MB-33167 extracted on 10/07/09 at a concentration estimated below the quantitation limit. Based on professional judgment, all samples within this SDG were evaluated for di-n-butyl phthalate contamination because they were all extracted using the same method. The positive di-n-butyl phthalate result for the soil sample TP-1 (9) was qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

b. Internal Standard Area Counts (pp. B30-B32, B36): The chrysene-d12 and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of samples SB-15(12-14) and SB-15(38-40) were less than the lower quality control limit. The recoveries for perylene-d12 were less than 25%. The positive and non-detect SB-15(12-14) and SB-15(38-40) results: pyrene through bis(2-ethylhexyl)phthalate that were quantitated using the nonconforming internal standards were non-detect and were qualified "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results (di-n-octylphthalate through benzo(g,h,i)perylene) quantitated using the perylene-d12 internal standards were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample TP-1(9) were less than the lower quality control limits. The recoveries for chrysene-d12 and perylene-d12 were less than 25%. The positive and non-detect TP-1(9) results: nitrobenzene through 4-chloro-3-methylphenol that were quantitated using the nonconforming internal standards were non-detect and were qualified "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results (pyrene through benzo(g,h,i)perylene) quantitated using the chrysene-d12 and perylene-d12 internal

standards were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The chrysene-d12 and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-11(16-18) were less than the lower quality control limits, but greater than 25%. The positive and non-detect SB-11(16-18) results: pyrene through benzo(g,h,i)perylene, quantitated using the chrysene-d12 and perylene-d12 internal standards, were qualified "J" and "UJ," as estimates, because of poor instrument stability attributable to matrix effects.

The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-2B(5) was less than the lower quality control limit, but greater than 25%. The positive and non-detect SB-2B(5) results for di-n-octylphthalate, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference.

c. Laboratory Control Sample Recoveries (pp. B7-B16): All LCS benzaldehyde recoveries were less than the lower quality control limit, but greater than 10%. All soil samples within this SDG were affected. The positive and non-detect benzaldehyde results for all associated soil samples were qualified "J" and "UJ," as estimates, because of low method bias.

d. Calibrations (pp.B375, B402, B411, B419, B428,B436): All continuing calibration %Ds for benzaldehyde were greater than the quality control limit of 25% on instrument HP5973N. Sensitivity decreased with respect to the initial calibration average relative response factor. The positive and non-detect benzaldehyde results for all associated soil samples were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for isophorone were greater than the quality control limit of 25% on 10/13/09 at 17:33 and 10/19/09 at 14:33 on instrument HP5973N. Sensitivity increased with respect to the initial calibration average relative response factor. Isophorone was not detected in any of the associated samples. No data qualifications were required.

The continuing calibration %D for 2,4-dinitrophenol was greater than the quality control limit of 25% on 10/13/09 at 17:33 on instrument HP5973N. Sensitivity decreased with respect to the initial calibration average relative response factor. The 2,4-dinitrophenol results for associated samples SB-12 (10-12.2), SB-13 (0-1), SB-15 (12-14) and SB-15 (38-40) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

e. Surrogate Recoveries (pp. B4-B5): The 4-terphenyl-d14 surrogate recoveries for samples SB-15(12-14), SB-15(38-40), SB-11(16-18) and TP-1(9) were greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

The nitrobenzene-d5 surrogate recovery for sample SB-13(12-14) was greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

The 2-fluorobiphenyl surrogate recovery for sample SB-11(32-32.5) was greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

f. Matrix Spike Recoveries and RPDs (p. B6): Sample TP-1 (9) was designated in the field to be processed as the MS/MSD sample. The acenaphthene and pyrene spikes added to TP-1 (9)

MS/MSD were less than 25% of the original sample results. The recoveries and RPDs could not be calculated. No data qualifications were required.

The TP-1 (9) MSD recovery for phenol was less than the lower advisory limit. The RPD between the MS and MSD phenol recoveries exceeded the maximum advisory limit. The positive phenol result for sample TP-1 (9) was qualified "J," as an estimated concentration, because of low bias and imprecision attributable to matrix effects or sample heterogeneity.

The TP-1 (9) MS and MSD recoveries for 4-chloro-3-methylphenol were greater than the upper advisory limit. 4-Chloro-3-methylphenol was not detected in sample TP-1 (9). No data qualification was required in response to the high bias.

g. Dilutions (Form 1s): SB-11(32-32.5), SB-15 (12-14), and TP-1 (9) were analyzed at a secondary dilution to bring one or more target compound concentrations into the calibration range. The concentrations originally exceeded the calibration range and were diluted out in the subsequent dilution analysis. The original results were reported and qualified "J," as estimated concentrations, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-11 (32-32.5)	0910975-001	1,1'-Biphenyl	130000	E	10	130000	J
		Benzo(a)anthracene	150000	E	10	150000	J
		Benzo(b)fluoranthene	84000	E	10	84000	J
		Benzo(a)pyrene	120000	E	10	120000	J
SB-13 (12-14)	0910786-002	2-Methylnaphthalene	1000000	E	20	1000000	J
SB-15 (12-14)	0910813-003	Benzo(b)fluoranthene	13000	E	1	13000	J
		Benzo(a)pyrene	14000	E	1	14000	J
SB-15 (38-40)	0910813-004	Benzo(b)fluoranthene	28000	E	1	28000	J
		Benzo(a)pyrene	35000	E	1	35000	J
TP-1 (9)	0911044-001	Dibenz(a,h)anthraene	8900	E	1	8900	J

Samples SB-11 (32-32.5), SB-13 (0-1), SB-13 (12-14), SB-15 (12-14), SB-15 (38-40), and TP-1 (9) required analysis at a secondary dilution to bring one or more target compound concentrations into the calibration range. One or more compounds were diluted to levels less than the lower calibration standard. The higher of the two concentrations was reported and was qualified "J," as an estimated concentration, because the concentration was outside the calibration range.

Samples SB-2B (5) and SB-11 (16-18) required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Sample SB-11 (32-32.5) and SB-13 (12-14) were analyzed at an initial dilution because of the high target analyte concentrations. The initial dilution elevated the detection limits and the reporting limits.

AECOM057

a. Blank Contamination (pp. B500-B501, B495-B496): Di-n-butyl phthalate was detected in the method blanks MB33426 and MB-33723 extracted on 10/26/09 and 11/10/09, respectively, at concentrations estimated below the quantitation limits. Based on professional judgment, all samples within this SDG were evaluated for di-n-butyl phthalate contamination because they were all extracted using the same method. The positive di-n-butyl phthalate results for the soil samples SB-4(36-38), SB-14B(20-22), SB-14B(54-56), SB-16B(44-46), SB-6(16-18), SB-6(26-28), SB-6(30-32), SB-12B(40-42), and SB-

12B(48-50) were qualified "U" as undetected at the quantitation limit, because of laboratory contamination.

The common extraction contaminant bis(2-ethylhexyl)phthalate was detected in the equipment (rinsate) blank RB-100509 at a concentration estimated below the quantitation limit. All samples within this SDG were affected. The positive bis(2-ethylhexyl)phthalate results for samples SB-4(36-38), TP-1(12), SB-14B(20-22), SB-14B(54-56), SB-16B(44-46), SB-6(16-18), SB-6(26-28), SB-6(30-32), SB-12B(40-42), and SB-12B(48-50) were estimated below the quantitation limit and were qualified "U" as undetected at the quantitation limit, because of ambient contamination.

b. Internal Standard Area Counts (pp. B35-B36, B39-B40): The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-2B(14-16) were less than the lower quality control limit. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-2B(14-16) results: nitrobenzene through 2-methylnaphthalene and pyrene through bis(2-ethylhexyl)phthalate, that were quantitated using the nonconforming internal standards were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results quantitated using the perylene-d12 internal standard (di-n-octylphthalate through benzo(g,h,i)perylene) were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The perylene-d12 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-2B(37-38) was less than the lower quality control limit, but greater than 25%. The SB-2B(37-38) results for di-n-octylphthalate through benzo(g,h,i)perylene were quantitated using this internal standard. These results were qualified "J," and "UJ," as estimates, because of instrument instability attributable to matrix interference.

The naphthalene-d8 internal standard recovery for the initial (i.e., undiluted) analysis of sample SB-14B(20-22) was less than the lower quality control limit, but greater than 25%. The SB-14B(20-22) results for nitrobenzene through 2-methylnaphthalene quantitated using this internal standard were qualified "J," and "UJ," as estimates, because of instrument instability attributable to matrix interference.

The phenanthrene-d10, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-16B(30-32) were less than the lower quality control limit. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-16B(30-32) results: 4,6-dinitro-2-methylphenol through fluoranthene and pyrene through bis(2-ethylhexyl)phthalate, that were quantitated using the nonconforming internal standards were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results quantitated using the perylene-d12 internal standard (di-n-octylphthalate through benzo(g,h,i)perylene) were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

The chrysene-d12 and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-14B(38-40) were less than the lower quality control limit. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-14B(38-40) results: pyrene through bis(2-ethylhexyl)phthalate, that were quantitated using the nonconforming internal standard were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results quantitated using the perylene-d12 internal standard (di-n-octylphthalate through benzo(g,h,i)perylene) were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

c. Percent Solids (Form 1s): Sample SB-14B (20-22) had percent solids <50%. All semivolatiles in sample SB-14B (20-22) were qualified "J and UJ", as estimated concentrations attributable to sample heterogeneity.

d. Laboratory Control Sample Recoveries (pp. B5-B13): The benzaldehyde recoveries were less than the lower quality control limit, but greater than 10% for the LCSs extracted on 10/13/09 (LFB-33232), 10/20/09 (LFB-33364), and 10/26/09 (LFB-33426). The positive and non-detect benzaldehyde results for all associated soil samples were qualified "J" and "UJ," as estimates, because of low method bias.

e. Calibrations (pp. B331, B405, B358, BB414, B423-B424, B432, B451): The continuing calibration %D for benzaldehyde was greater than the quality control limit of 25% on 10/19/09 at 14:33 on instrument HP5973N. Sensitivity decreased with respect to the initial calibration average relative response factor. The positive and non-detect benzaldehyde results for samples SB-4(36-32), SB-4(44-46), and TP-1(12) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for benzo(k)fluoranthene was greater than the quality control limit of 25% on 10/26/09 at 16:10 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factor. The positive benzo(k)fluoranthene result for sample SB-2B(14-16) was qualified "J," as an estimated concnentration, because of low instrument bias.

The continuing calibration %Ds for benzaldehyde were greater than the quality control limit of 25% on 10/22/09 at 15:11, 10/26/09 at 16:10, 10/28/09 at 12:38, and 11/12/09 at 20:09 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factor. The positive and non-detect benzaldehyde results for samples SB-2B(14-16), SB-2B(37-38), SB-2B(42-44), SB-1(5), SB-14B(20-22), SB-14B(38-40), SB-14B(54-56),SB-16B(30-32), SB-16B(44-46), SB-6(16-18), SB-6(26-28), SB-6(30-32), SB-12B(40-42), and SB-12B(48-50) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for hexachlorocyclopentadiene were greater than the quality control limit of 25% on 10/28/09 at 12:38 and 11/12/09 at 20:09 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factor. The hexachlorocyclopentadiene results for samples SB-1(5), SB-14B(20-22), SB-14B(38-40), SB-14B(54-56),SB-16B(30-32), SB-16B(44-46), SB-6(16-18), SB-6(26-28), SB-6(30-32), SB-12B(40-42), and SB-12B(48-50) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

f. Surrogate Recoveries (p. B3): The 4-terphenyl-d14 surrogate recovery for sample SB-16B(30-32) and the nitrobenzene-d5 surrogate recoveries for samples SB-2B(14-16) and SB-14B(20-22) were greater than the upper quality control limits. The surrogates were diluted out in the reanalysis at a secondary dilution. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

The nitrobenzene-d5, 2-fluorobiphenyl, and 4-terphenyl-d14 surrogate recoveries for sample SB-14B(38-40) were greater than the upper quality control limits for the undiluted analysis. The surrogates were diluted out in the reanalysis at a secondary dilution. All positive base/neutral compound results were qualified "J," as estimated concentrations, because of high bias attributable to matrix interference.

g. Dilutions (Form 1s): Samples SB-2B(14-16), SB-14B(20-22), and SB-14B(38-40) were analyzed at a secondary dilution to bring several target compound concentrations into the calibration range and/or minimize matrix interference. In cases where the concentration for one or more target compounds originally exceeded the calibration range and were diluted out in the subsequent dilution analysis. The original results were then reported and qualified "J," as an estimated concentration, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-2B(14-16)	0911284-001	Benzo(b)fluoranthene	9600	E	1	9600	J
SB-14B(38-40)	0911468-003	1,1'-Biphenyl	280000	E	10	280000	J
		Acenaphthene	220000	E	10	220000	J
		Benzo(k)fluoranthene	160000	E	10	160000	J
		Benzo(a)pyrene	200000	E	10	200000	J

Samples SB-2B(14-16), SB-16B(30-32), and SB-12B(40-42) required analysis at a secondary dilution to bring several target compound concentrations into the calibration range. In cases where one or more compounds were diluted to levels less than the lower calibration standard, the concentration was qualified "J," as an estimated concentration, because the concentration was outside the calibration range. The higher of the two results was then reported.

Sample SB-2B(37-38) and SB-14B(38-40) required analysis at an initial and subsequent dilution to bring the target compound concentrations into the calibration range and/or minimize matrix interference. The initial dilution elevated the quantitation limits.

AECOM058

a. Blank Contamination (pp. B514-B515): Di-n-butylphthalate was detected in the extraction blank MB-33426 at an estimated concentration of 130 µg/Kg. The positive di-n-butylphthalate result for sample SB-3(46-48) was qualified "U," as undetected at the quantitation limit, because of laboratory contamination.

b. Internal Standard Area Counts (pp. B24-B25): The naphthalene-d8, phenanthrene-d10, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-3(36-38) were less than the lower quality control limits. The recovery for perylene-d12 was less than 25%. The positive and non-detect SB-3(36-38) results: nitrobenzene through 2-methylnaphthalene, 4,6-dinitro-2-methylphenol through fluoranthene, and pyrene through bis(2-ethylhexyl)phthalate, that were quantitated using the nonconforming internal standards were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference. The positive and non-detect target compound results quantitated using the perylene-d12 internal standard (di-n-octylphthalate through benzo(g,h,i)perylene) were qualified "J" and "R," as estimates and rejected, because the internal standard recovery was less than 25%, indicating poor instrument stability attributable to matrix effects.

   The naphthalene-d8, chrysene-d12, and perylene-d12 internal standard recoveries for the initial (i.e., undiluted) analysis of sample SB-3(36-38) were less than the lower quality control limits, but greater than 25%. The positive and non-detect SB-8(24-26) results: nitrobenzene through 2-methylnaphthalene, pyrene through bis(2-ethylhexyl)phthalate, and di-n-octylphthalate through benzo(g,h,i)perylene that were quantitated using the nonconforming internal standards were qualified "J" and "UJ," as estimates, because of instrument instability attributable to matrix interference.

c. Laboratory Control Sample Recoveries (pp. B5, B8, B13): The benzaldehyde recoveries were less than the lower quality control limit, but greater than 10% for the LCSs extracted on 10/26/09 (LFB-33426) and 10/29/09 (LFB-33511). The benzaldehyde results for all associated soil samples were non-detect and were qualified "UJ," as estimates, because of low method bias.

   The benzaldehyde recovery for LCS (LFB-33599), extracted on 11/03/09, was greater than the upper quality control limit. The benzaldehyde results for associated soil samples SB-7(38-40 and SB-7(44-46) were non-detect. No data qualifications were required in response to the high method bias.

d. Calibrations (pp. B418, B456, B465, B475, B486-B487, B495): The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 10/28/09 at 12:38, 11/04/09 at 15:31, 11/05/09 at 22:14, and 11/09/09 at 17:17 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. All samples were affected. All benzaldehyde and hexachlorocyclopentadiene results were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for phenol, bis(2-chloroethyl)ether, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol were greater than the quality control limit of 25% on 11/05/09 at 22:14 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect phenol, bis(2-chloroethyl)ether, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol results for associated samples SB-7(38-40) and SB-7(44-46) were qualified "J" and "UJ," as estimates, because of low instrument bias.

e. Surrogate Recoveries (p. B3): The phenol-d5 surrogate recoveries for samples SB-7(38-40) and SB-7(44-46) were greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

The nitrobenzene-d5, 2-fluorobiphenyl, and 4-terphenyl-d14 surrogate recoveries for sample SB-3(36-38) were greater than the upper quality control limits for the undiluted analysis. The surrogates were diluted out in the reanalysis at a secondary dilution. All positive base/neutral compound results were qualified "J," as estimated concentrations, because of high bias attributable to matrix interference.

The 2-fluorobiphenyl and 4-terphenyl-d14 surrogate recoveries for sample SB-8(24-26) were greater than the upper quality control limits for the undiluted analysis. The surrogates were diluted out in the reanalysis at a secondary dilution. All positive base/neutral compound results were qualified "J," as estimated concentrations, because of high bias attributable to matrix interference.

f. Dilutions (Form 1s): Samples SB-3(36-38), SB-8(24-26), and SB-17(36-38) were analyzed at a secondary dilution to bring several target compound concentrations into the calibration range and/or minimize matrix interference. In cases where the concentration for one or more target compounds originally exceeded the calibration range and were diluted out in the subsequent dilution analysis. The original results were then reported and qualified "J," as an estimated concentration, because the calibration range was exceeded. The details are provided in the table below.

Field ID	Lab ID	Analyte	Original Results (Over-range) (µg/Kg)	Lab Qualifier	Dilution Factor	Reportable Results (µg/Kg)	Validation Qualifier
SB-3(36-38)	0911469-001	Benzo(b)fluoranthene	260000	E	10	260000	J
SB-8(24-26)	0911469-002	Dibenzofuran	190000	E	10	190000	J
		Benzo(b)fluoranthene	230000	E	10	230000	J
		Benzo(k)fluoranthene	200000	E	10	200000	J
		Benzo(a)pyrene	270000	E	10	270000	J
SB-17(36-38)	0911584-002	Benzo(b)fluoranthene	8200	E	1	8200	J

Sample SB-3(36-38), SB-8(24-26), and SB-17(16-18) required analysis at an initial and subsequent dilution to bring the target compound concentrations into the calibration range and/or minimize matrix interference. The initial dilution elevated the quantitation limits.

AECOM062

a. Surrogate Recoveries (p. B3): The nitrobenzene-d_5 surrogate recovery for sample SB-1C (80-81.5) was greater than the upper quality control limit. The *National Functional Guidelines* permit one

surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

b. Matrix Spike Recoveries and RPDs (p. B4): Sample SB-1C (23-25) was designated in the field to be processed as the MS/MSD sample. The pentachlorophenol recovery was greater than the upper advisory limit. Pentachlorophenol was not detected in sample SB-1C (23-25). No data qualification was required in response to the high bias.

c. Calibrations (p. B92, B151): The initial calibration relative standard deviation for benzaldehyde was greater than 30% on 11/23/09 on instrument HP5972. No data qualification was required because the benzaldehyde results for all soil samples in the SDG were non-detect.

The continuing calibration %D for 2,4-dinitrophenol was greater than the quality control limit of 25% on 12/03/09 at 11:01 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factor. The 2,4-dinitrophenol results for associated samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

d. Dilutions (Form 1s): Samples SB-1C (80-81.5) and SB-1C DUP01 (112009) required analysis at an initial 10-fold dilution and required further dilution at 100-fold to bring several target compound concentrations into the calibration range and/or minimize matrix interference. The initial ten-fold dilution elevated the detection and reporting limits.

AECOM063

a. Sample Preservation (p. A20): The cooler temperature exceeded preservation criteria of 4°C±2°C for samples MW1C121409, MW1B121409, and MW1A121409 (10-11°C). No data qualification was required since the samples were received on ice.

b. Blank Contamination (pp. B409, B422): Several Tentatively Identified Compounds (TICs) were detected in MB-34277 [(DEL) alkane: branched, 9-octadecenamide, (Z)-, erucylamide, and unknown (RT = 17.27)] extracted on 12/16/09 and MB-34334 [unknown (RT = 6.87)] extracted on 12/18/09. 9-Octadecanamide, (Z)- and eracylamide were detected in samples MW1A121409, MW1B121409, and MW1C121409. The positive 9-octadecanamide, (Z)- and eracylamide results for samples MW1A121409, MW1B121409, and MW1C121409 were qualified "U" as undetected at the reported concentration, because of laboratory contamination. No data qualification was required for the remaining TICs since these compounds were not detected in the associated samples.

c. Matrix Spike Recoveries and RPDs (p. B4): Sample MW3A121509 was designated in the field to be processed as the MS/MSD sample. The MS/MSD recoveries for pentachlorophenol exceeded the maximum advisory limit. No data qualification was required since the pentachlorophenol result was not detected in sample MW3A121509.

The RPD between the MS and MSD acenaphthene recoveries exceeded the maximum advisory limit. The positive acenaphthene result for sample MW3A121509 was qualified "J," as an estimated concentration, because of imprecision, attributable to matrix effects and/or sample heterogeneity.

d. Laboratory Control Sample Recoveries (pp. B7, B10-B11, B13-B14): The LCS (LFB-34277) recovery for benzaldehyde was greater than the upper quality control limit. Benzaldehyde was not detected in associated samples MW1A121409, MW1B121409, and MW1C121409. No data qualifications were required in response to the high method bias. The LCS (LFB-34277) recovery for caprolactam was less than the lower quality control limit. The non-detect caprolactam results for associated samples MW1A121409, MW1B121409, and MW1C121409 were qualified "UJ," as estimates, because of low method bias.

The LCS (LFB-34334) recoveries for benzaldehyde and 2,4-dinitrophenol were greater than the upper quality control limit. Benzaldehyde and 2,4-dinitrophenol were not detected in associated samples MW3A121509 and MW3C121509. No data qualifications were required in response to the high method bias. The LCS (LFB-34334) recoveries for caprolactam and 3/4-methylphenol were less than the lower quality control limits. The positive and non-detect caprolactam and 3/4-methylphenol results for associated samples MW3A121509 and MW3C121509 were qualified "J" and "UJ," as estimates, because of low method bias.

The LCS (LFB-34371) recoveries for benzaldehyde, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol were greater than the upper quality control limit. Benzaldehyde, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol were not detected in associated sample MW4A121609. No data qualifications were required in response to the high method bias. The LCS (LFB-34371) recoveries for caprolactam and 3/4-methylphenol were less than the lower quality control limits. The positive and non-detect caprolactam and 3/4-methylphenol results for associated sample MW4A121609 were qualified "J" and "UJ," as estimates, because of low method bias.

e. Calibrations (pp.B273, B333, B344, B355, B365, B377-B378, B388): The initial calibration relative standard deviation for benzaldehyde was greater than 30% on 11/23/09 on instrument HP5972. No data qualification was required since the benzaldehyde results for all aqueous samples in the SDG were non-detect.

The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 12/17/09 at 17:42 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The non-detect benzaldehyde and hexachlorocyclopentadiene results for associated samples MW1A121409, MW1B121409, and MW1C121409 were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 12/18/09 at 10:08 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. No data qualification was required because the benzaldehyde and hexachlorocyclopentadiene results were not reported from the dilution analysis of sample MW1C121409.

The continuing calibration %D for benzo(k)fluoranthene was greater than the quality control limit of 25% on 12/18/09 at 10:08 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. No data qualification was required because the benzo(k)fluoranthene result was not reported from the dilution analysis of sample MW1C121409.

The continuing calibration %Ds for benzaldehyde, N-nitroso-d-n-propylamine, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline were greater than the quality control limit of 25% on 12/21/09 at 17:55 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde, N-nitroso-d-n-propylamine, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline results for associated samples MW3A121509 and MW3C121509 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for hexachlorobutadiene was greater than the quality control limit of 25% on 12/21/09 at 17:55 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. Hexachlorobutadiene was not detected in the associated samples MW3A121509 and MW3C121509. No data qualifications were required in response to the high instrument bias.

The continuing calibration %Ds for benzaldehyde, N-nitroso-d-n-propylamine, nitrobenzene, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline were greater than the quality control limit of 25% on 12/22/09 at 10:59 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. No data qualification was required because the

benzaldehyde, N-nitroso-d-n-propylamine, nitrobenzene, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline results were not reported from the dilution analysis of sample MW3C121509.

The continuing calibration %D for hexachlorobutadiene was greater than the quality control limit of 25% on 12/22/09 at 10:59 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. No data qualification was required because the hexachlorobutadiene result was not reported from the dilution analysis of sample MW3C121509.

The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 12/23/09 at 15:16 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde and hexachlorocyclopentadiene results for associated sample MW4A121609 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for 2,2'-oxybis(1-chloropropane) and di-n-octyl phathalate were greater than the quality control limit of 25% on 12/23/09 at 15:16 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. 2,2'-oxybis(1-chloropropane) and di-n-octyl phathalate were not detected in the associated sample MW4A121609. No data qualifications were required in response to the high instrument bias.

The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 12/28/09 at 10:36 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. No data qualification was required because the benzaldehyde and hexachlorocyclopentadiene results were not reported from the dilution analysis of sample MW4A121609.

The continuing calibration %D for 3/4-methylphenol, 2,2'-oxybis(1-chloropropane), N-nitroso-di-n-propylamine, hexachlorethane, and bis(2-chlorethoxy)methane were greater than the quality control limit of 25% on 12/28/09 at 10:36 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. No data qualification was required because the 3/4-methylphenol, 2,2'-oxybis(1-chloropropane, N-nitroso-di-n-propylamine, hexachlorethane, and bis(2-chlorethoxy) results were not reported from the dilution analysis of sample MW4A121609.

d. Surrogate Recoveries (p. B3): The nitrobenzene-d_5 surrogate recovery for sample MW3C121509 and the 2-chlorophenol-d_4 and 1,2-dichlorobenzene-d_4 recoveries for sample MW4A121609 were greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

e. Tentatively Identified Compounds (TICs) (Form Is): In some instances, TICs were computed against internal standards with a large interference. The laboratory manually re-calculated these TICs with the nearest internal standard without interference. If the TIC was reported from the dilution, the undiluted analysis was not recalculated but was reported with a "Y" qualifier for low bias. In these instances, the dilution result was reported. The affected TICs include 1-methylnaphthalene in sample MW1C121409 and all TICs in sample MW4A121609.

f. Dilutions (Form 1s): MW1C121409 and MW3C121509 were analyzed at a secondary dilution to bring one or more target compound concentrations into the calibration range. The 2-methylnaphthalene result in sample MW3C121509 was greater than the calibration range in the undiluted analysis but was diluted to a level less than the lower calibration standard in the 50-fold dilution analysis. The 50-fold dilution analysis was reported and was qualified "J," as an estimated concentration, because the concentration was less than the lowest calibration standard.

Sample MW4A121609 required analysis at an initial 10-fold dilution and required further dilution at 1000-fold to bring several target compound concentrations into the calibration range and/or minimize

matrix interference. The initial ten-fold dilution elevated the detection and reporting limits. The 2-methylphenol and 2,4-dimethylphenol results in sample MW4A121609 were greater than the calibration range in the 10-fold dilution analysis but were diluted to a level less than the lower calibration standard in the 1000-fold dilution analysis. The 1000-fold dilution analysis results were reported and were qualified "J," as estimated concentrations, because the concentrations were less than the lowest calibration standard.

AECOM064

a. Internal Standard Area Counts (p. B28): The naphthalene-d8 internal standard recoveries for the initial (i.e., undiluted) analysis of samples MW5B121609 and PW1121609 were less than the lower quality control limit, but greater than 25%. The positive and non-detect MW5B121609 and PW1121609 results: nitrobenzene through 2-methylnaphthalene, that were quantitated using the nonconforming internal standards were non-detect and were qualified "UJ," as estimates, because of instrument instability attributable to matrix interference.

b. Laboratory Control Sample Recoveries (pp. B7-B16): The LCS (LFB-34277) recovery for benzaldehyde was greater than the upper quality control limit. Benzaldehyde was not detected in associated sample MW6B121409. No data qualifications were required in response to the high method bias. The LCS (LFB-34277) recovery for caprolactam was less than the lower quality control limit. The non-detect caprolactam result for associated sample MW6B121409 was qualified "UJ," as an estimate, because of low method bias.

   The LCS (LFB-34334) recoveries for benzaldehyde and 2,4-dinitrophenol were greater than the upper quality control limit. Benzaldehyde and 2,4-dinitrophenol were not detected in associated samples MW4B121509, MW4C121509, MW4C121509D, MW6A121509, MW7A121509, and MW7B121509. No data qualifications were required in response to the high method bias. The LCS (LFB-34334) recoveries for caprolactam and 3/4-methylphenol were less than the lower quality control limits. The positive and non-detect caprolactam and 3/4-methylphenol results for associated samples MW4B121509, MW4C121509, MW4C121509D, MW6A121509, MW7A121509, and MW7B121509 were qualified "J" and "UJ," as estimates, because of low method bias.

   The LCS (LFB-34371) recoveries for benzaldehyde, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol were greater than the upper quality control limit. The positive benzaldehyde result for MW5B121609 required a "J" qualifier, as an estimated concentration, because of high method bias. All other associated benzaldehyde, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol were non-detect. No data qualifications were required in response to the high method bias. The LCS (LFB-34371) recoveries for caprolactam and 3/4-methylphenol were less than the lower quality control limits. The positive and non-detect caprolactam and 3/4-methylphenol results for associated samples MW2A121609, MW2B121609, MW5A121609, MW6A121509, MW5B121609, and PW11121609.were qualified "J" and "UJ," as estimates, because of low method bias.

c. Calibrations (pp.B228, B288-B290, B299-B301, B309-B311, B321-B323): The continuing calibration %Ds for benzaldehyde and hexachlorocyclopentadiene were greater than the quality control limit of 25% on 12/17/09 at 17:42 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The non-detect benzaldehyde and hexachlorocyclopentadiene results for associated sample MW6B121409 were qualified "UJ," as estimates, because of low instrument bias.

   The continuing calibration %Ds for benzaldehyde, N-nitroso-d-n-propylamine, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline were greater than the quality control limit of 25% on 12/21/09 at 17:55 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde, N-nitroso-d-n-propylamine, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline results for associated samples MW4B121509, MW4C121509, MW4C121509D, MW6A121509, MW7A121509, and MW7B121509 were non-detect

and were qualified "UJ," as estimates, because of low instrument bias. The continuing calibration %D for hexachlorobutadiene was greater than the quality control limit of 25% on 12/21/09 at 17:55 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. Hexachlorobutadiene was not detected in the associated samples. No data qualifications were required in response to the high instrument bias.

The continuing calibration %Ds for benzaldehyde, N-nitroso-d-n-propylamine, nitrobenzene, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline were greater than the quality control limit of 25% on 12/22/09 at 10:59 on instrument HP5972. Sensitivity decreased with respect to the initial calibration average relative response factors. The positive and non-detect benzaldehyde, N-nitroso-d-n-propylamine, nitrobenzene, isophorone, hexachlorocyclopentadiene, and 2-nitroaniline results for associated samples MW2A121609, MW2B121609, MW5A121609, MW5B121609, and PW1121609 were qualified "J" and "UJ," as estimates, because of low instrument bias. The continuing calibration %D for hexachlorobutadiene was greater than the quality control limit of 25% on 12/22/09 at 10:59 on instrument HP5972. Sensitivity increased with respect to the initial calibration average relative response factor. Hexachlorobutadiene was not detected in the associated samples. No data qualifications were required in response to the high instrument bias.

g. Surrogate Recoveries (p. B3): The nitrobenzene-d5 surrogate recoveries for samples MW4C121509, MW4C121509D, MW5B121609, MW7B121509, and PW1121609 were greater than the upper quality control limit. The *National Functional Guidelines* permit one surrogate from each fraction (i.e., acid or base/neutral) to be nonconforming so long as the recovery is greater than 10%. No data qualifications were required.

h. Dilutions (Form 1s): MW4B121509, MW4C121509, MW4C121509, MW7B121509, MW2B121609, MW5A121609, MW5B121609, and PW1121609 were analyzed at a secondary dilution to bring one or more target compound concentrations into the calibration range. Where the concentrations originally exceeded the calibration range and were diluted out in the subsequent dilution analysis, the original results were reported and qualified "J," as estimated concentrations, because the calibration range was exceeded. Where the concentrations were diluted to levels less than the lower calibration standard, the higher of the two concentrations was reported and qualified "J," as an estimated concentration, because the concentration was outside the calibration range.

3.0 Pesticides

AECOM049

a. Surrogate Recoveries (pp. PE3-PE4): The decachlorobiphenyl surrogate recoveries exceeded the upper acceptance limit of 150% on both columns for all samples except SB-5(52-54), which yielded compliant recoveries on both columns, and SB-5(16-18), which yielded a compliant result on column 2. In addition, the tetrachloro-m-xylene surrogate recovery exceeded the upper quality control limit on column 1 for sample SB-7(6-8), and fell below the lower quality control limit on column 2 for the diluted analysis of sample SB-17(1-2). Therefore, the positive results for all samples except SB-5(52-54) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects. Non-detect results were not qualified on this basis.

b. Dilutions (Form 1s): Samples SS-4, SB-17(1-2), SB-5(16-18), and SB-5(28-30) were analyzed at secondary dilutions to bring one or more target compounds into the calibration range. No data qualifications were required on this basis. Results from the two runs were combined to ensure that all reported results were within the calibration. In most cases, non-detect results and results that fell within the calibration range were reported from the least diluted run. However, in some cases, the interferences present in the undiluted run were so significant that it was determined that the diluted result was more appropriate. These decisions were based on visual examination of the chromatograms and evaluation of dual column relative percent differences (RPDs).

c. Interferences (Form 1s): All samples exhibited severe matrix interferences, often attributable to the presence of one or more Aroclors. While no data were qualified on this basis, the interferences are likely responsible for the great number of surrogate nonconformances and the dual column precision nonconformances discussed below. In cases where samples were analyzed at multiple dilutions, the level of interferences present was a significant factor in the determination of which result to report.

d. Dual Column RPDs (pp. PE276-PE297): The dual column RPD exceeded the 40% criteria in several samples. Sample results less than the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the sample quantitation limit. The results tabulated below were qualified using these criteria.

Field ID	Analyte	Original Results (µg/Kg)	Lab Qualifier	RPD	Reportable Results (µg/Kg)	Validation Qualifier
DUP-1-092809	Aldrin	1.5	PJ	102	1.9	U
DUP-1-092809	DDE,4,4-	2.9	PJ	110	3.7	U
DUP-1-092809	Endosulfan sulfate	2.6	PJ	123	3.7	U
SB-17(1-2)092509	Gamma-BHC	1.6	PJ	195	1.8	U
SB-5(16-18)092809	Delta-BHC	2.1	PJ	44	2.1	J
SB-5(28-30)092809	Endrin aldehyde	2.5	PJ	178	4.0	U
SB-8(2-3)092709	Beta-BHC	1.7	PJ	58	2.4	U
SB-8(2-3)092709	Delta-BHC	1.9	PJ	88	2.4	U

Field ID	Analyte	Original Results (µg/Kg)	Lab Qualifier	RPD	Reportable Results (µg/Kg)	Validation Qualifier
SB-8(2-3)092709	Heptachlor	1.9	PJ	6.7	2.4	U
SS-2-092809	Endosulfan sulfate	1.9	PJ	93	3.6	U
SS-3-092209	Aldrin	1.1	PJ	74	2.0	U
SS-3-092209	Dieldrin	2.0	PJ	139	3.9	U
SS-3-092209	Endosulfan sulfate	2.1	PJ	105	3.9	U
SS-3-092209	Endrin	2.7	PJ	65	3.9	U
SS-5-092509	Delta-BHC	1.5	PJ	67	1.9	U
SS-5-092509	Endosulfan I	1.6	PJ	88	1.9	U
SS-5-092509	Endosulfan II	2.2	PJ	164	3.6	U

Results greater than or equal to the SQL with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ,", as presumptively present at an estimated concentration. Note that Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, since interference was observed in all samples, no pesticide data were rejected on this basis. See attached nonconformances and Form 1s for specific details.

AECOM058

a. Surrogate Recoveries (p. PE3): The decachlorobiphenyl surrogate recoveries exceeded the upper quality control limit of 150% on both columns for samples SB-17(16-18) and SB-17(36-38). Therefore, all positive results for these two samples were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects. Note that since the surrogates were diluted out of the diluted analysis, professional judgment was used to qualify the positive results reported from the diluted run as well. Non-detect results were not qualified on this basis.

b. Dilutions (Form 1s): Samples SB-3(36-38), SB-8(24-26), and SB-17(16-18) were analyzed at secondary dilutions to bring one or more target compounds into the calibration range. No data qualifications were required on this basis. SB-3(36-38) and SB-8(24-26) were not analyzed undiluted, resulting in elevated reporting limits for non-detect compounds. Sample SB-17(16-18) was analyzed diluted and undiluted; results from the two runs were combined to ensure that all reported results were within the calibration. In most cases, non-detect results and results that fell within the calibration range were reported from the least diluted run. However, methoxychlor was reported from the diluted run because the interferences present in the undiluted run were so significant that it was determined that the diluted result was more appropriate. This decision was based on visual examination of the chromatograms and evaluation of dual column relative percent differences (RPDs).

c. Dual Column RPDs (pp. PE181-PE186): The dual column RPD exceeded the 40% criteria in several samples. Sample results less than the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the sample quantitation limit. The results tabulated below were qualified using these criteria.

Field ID	Analyte	Original Results (µg/Kg)	Lab Qualifier	RPD	Reportable Results (µg/Kg)	Validation Qualifier
SB-17(16-18)	Aldrin	1.5	PJ	121	2.1	U
SB-3(36-38)	Beta-BHC	41	PJ	72	47	U
SB-17(36-38)	DDD,4,4-	2.7	PJ	114	3.8	U
SB-3(36-38)	DDE,4,4-	60	PJ	104	92	U
SB-17(16-18)	Delta-BHC	1.9	PJ	176	2.1	J
SB-17(16-18)	Endosulfan I	1.7	PJ	178	2.1	U
SB-8(24-26)	Endrin ketone	53	PJ	125	100	U
SB-17(16-18)	Gamma-BHC	1.1	PJ	106	2.1	U
SB-17(16-18)	Heptachlor epoxide	1.9	PJ	105	2.1	U
SB-8(24-26)	Methoxychlor	380	PJ	70	530	U

Results greater than or equal to the SQL with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ,", as presumptively present at an estimated concentration. Note that Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, since interference was observed in all samples, no pesticide data were rejected on this basis. See attached nonconformances and Form 1s for specific details.

AECOM063

a. Surrogate Recoveries (p. PE3): The tetrachloro-m-xylene surrogated recoveries exceeded the upper quality control limit of 150% on column 1 in samples MW4A121609 and MW4A121609D; and the decachlorobiphenyl surrogate recovery exceeded the upper quality control limit of 150% on column 1 for sample MW4A121609D. Therefore, positive results reported from column 1 for these two samples were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects. Non-detect results were not qualified on this basis.

b. Laboratory Control Sample Recovery (p. PE9): The recovery of endrin (43%) fell below the lower quality control limit of 56% in the LCS analyzed 12/29/09. All positive and non-detect endrin results in samples MW3A121509, MW3C121509, MW4A121609, and MW4A121609D were qualified "J" or "UJ," as estimated concentrations due to potential low bias.

c. Calibration Verification (pp. PE103-PE105): The acceptance criteria of 15% difference was exceeded on both columns for methoxychlor, and on column 1 for alpha-BHC, gamma-BHC, heptachlor, endrin, 4,4'-DDD, 4,4'-DDT in the continuing calibration verification (CCV) standard analyzed at 19:36 on 12/16/09; and on column 1 for delta-BHC, aldrin, heptachlor epoxide, alpha chlordane, and gamma-chlordane in the CCV analyzed at 13:01 on 12/29/09. All positive and non-detect results associated with these non-conformances were qualified "J" or "UJ," as estimated concentrations, because of undetermined bias.

d. Dual Column RPDs (pp. PE111-PE112): The dual column RPD exceeded the 40% criteria for several compounds in samples MW4A121609 and MW4A121609D. Sample results less than the sample quantitation limit (SQL) with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; and results with RPDs greater than 50%, were qualified "U," as not detected at the sample quantitation limit. The results for heptachlor, endrin ketone, and endrin aldehyde in MW4A121609, and the results for heptachlor, endosulfan sulfate, and endrin aldehyde were negated on this basis; and the endrin ketone result in sample MW4A121609D was qualified "J," as an estimated concentration on this basis.

Results greater than or equal to the SQL with RPDs greater than 40%, but less than or equal to 70%, were qualified "J," as estimated; and results with RPDs greater than 70% were qualified "NJ,", as presumptively present at an estimated concentration. Note that Region 2 guidance states that in the absence of interference, results with RPDs greater than 100% should be rejected (qualified "R"). However, since interference was observed in all samples, no pesticide data were rejected on this basis. The beta-BHC and 4,4'-DDD results in MW4A121609, and the beta-BHC result in sample MW4A121609D were qualified "NJ," as presumptively present at an estimated concentration due to poor column precision.

4.0 Polychlorinated Biphenyls (PCBs) as Aroclors

AECOM049

a. Surrogate Recoveries (p. P3): The decachlorobiphenyl surrogate recoveries exceeded the upper quality control limit of 150% on column 2 for all samples except SB-5(52-54). The positive sample results for Aroclor 1254 in sample SB-17(1-2), Aroclors 1242 and 1254 in sample SB-7(6-8), and Aroclor 1242 in samples SB-8(2-3), SS-2, and SS-3 were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects. No other results were qualified on this basis as they were either non-detect, or were reported from the compliant column.

b. Dilutions (Form 1s): SB-17(1-2) and SB-7(6-8) were analyzed at a secondary dilution to bring one or more target compounds into the calibration range. No data qualifications were required on this basis.

c. Interferences (Form 1s): Several samples contained multiple Aroclors and/or other non-target interferents which contained peaks that eluted in the range of other Aroclors that were reported as non-detects. Since it is possible that the presence of these interferents may mask low levels of the other Aroclors, the laboratory qualified many of these non-detects as estimated (UX). These results were qualified as estimated (UJ) to indicate that the reporting limit should be considered estimated.

AECOM050

a. Surrogate Recoveries (p. P3): The decachlorobiphenyl surrogate recoveries exceeded the upper quality control limit of 150% on column 2 for all samples in this data set, and on column 1 for for the undiluted analysis of sample SB-10(3-4), and the diluted and undiluted analyses of sample SB-9(4-5). In addition, the tetrachloro-m-xylene surrogate recoveries exceeded the upper quality control limit on column 2 for samples SB-18(4-5) and SB-14(1-2). All positive Aroclor results with the exception of Aroclor 1260 in sample SB-10(3-4) and Aroclor 1242 in sample SB-15(3-4) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

b. Calibration Verification (pp. P182-P191): The acceptance criteria of 15% difference was exceeded on column 2 for Aroclors 1016 and 1260 for the continuing calibration verification (CCV) standards analyzed at 12:47 and 16:30 on 10/5/09, and 12:38 and 18:46 on 10/12/09; the Aroclor 1016 CCV analyzed at 22:05 on 10/5/09; the Aroclor 1242 CCVs analyzed at 15:57 and 22:21 on 10/5/09; and the Aroclor 1254 CCVs analyzed at 13:20 and 22:38 on 10/5/09. All of the nonconformances indicated a potential high bias for results reported from column 2, which is consistent with the bias suggested by the surrogate results. All positive Aroclor results associated with these non-conformances were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

c. Dilutions (Form 1s): SB-9(4-5), SB-10(3-4),SB-15(3-4), SB-16(2-3), and SB-18(4-5) were analyzed at a secondary dilution to bring one or more target compounds into the calibration range. No data qualifications were required on this basis.

d. Interferences (Form 1s): Several samples contained multiple Aroclors and/or other non-target interferents that contained peaks which eluted in the range of other Aroclors that were reported as non-detects. Since it is possible that the presence of these interferents may mask low levels of the other Aroclors, the laboratory qualified many of these non-detects as estimated (UX). These results were qualified as estimated (UJ) to indicate that the reporting limit should be considered estimated.

AECOM056

a. Surrogate Recoveries (p. P3): The decachlorobiphenyl surrogate recoveries exceeded the upper quality control limit of 150% on column 2 for samples SB-13(0-1), SB-2B(5), and SB-6(6). The positive sample results for Aroclor 1242 in sample SB-13(0-1), and Aroclor 1260 in sample SB-6(6) were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects. No other results were qualified on this basis as they were either non-detect, or were reported from the compliant column.

b. Calibration Verification (pp. P76, P77, P79): The acceptance criteria of 15% difference was exceeded on both columns for Aroclors 1016 and 1260 for the CCV standards analyzed at 12:38 and 18:46 on 10/12/09 and the Aroclor 1242 CCV analyzed at 11:08 on 10/13/09. All of the nonconformances indicated a potential high bias for results reported from column 2, which is consistent with the bias suggested by the surrogate results. All positive Aroclor results associated with these non-conformances were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

c. Interferences (Form 1s): Several samples contained multiple Aroclors and/or other non-target interferents which contained peaks that eluted in the range of other Aroclors that were reported as non-detects. Since it is possible that the presence of these interferents may mask low levels of the other Aroclors, the laboratory qualified many of these non-detects as estimated (UX). These results were qualified as estimated (UJ) to indicate that the reporting limit should be considered estimated.

5.0 Herbicides

AECOM049

a. Calibration Verifications (pp. H153-154): The acceptance criteria of 15% difference was exceeded on both columns for the compounds 2,4-D, 2,4,5-T and 2,4-DB, and one column 2 for 2,4,5-TP (Silvex) in the continuing calibration standard analyzed at 14:51 on 10/19/09. All positive and non-detect results for 2,4-D, 2,4,5-T and 2,4-DB in samples SB-7(6-8) and SB-8(2-3) were qualified "J," or "UJ," respectively, due to a potential low bias. No 2,4,5-TP (Silvex) results were qualified as they were non-detect in the associated samples and the nonconformance affected only one column.

b. Dual Column RPDs (pp. H165, H168, H171-H173): The dual column RPD exceeded the 40% criteria in several samples. Results with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; results with RPDs greater than 50%, but less than or equal to 90% were qualified "JN,", as presumptively present at an estimated concentration; and results with RPDs greater than 90% were rejected (i.e., qualified "R"). Therefore the 2,4-D result in SS-5 was qualified "JN"; the 2,4-DB results in SB-17(1-2) was qualified "J"; the 2,4-DB result in SB-5(52-54) was rejected; the 2,4,5-T result was qualified "J" and the 2,4-DB result was qualified "JN" in sample SB-8(2-3); and the 2,4-D and 2,4-DB results in SB-7(6-8) were rejected. Note that multiple non-target interferents were observed in these samples and are likely the cause of the poor agreement between columns. In all cases, the laboratory reported the lower value in accordance with Region 2 guidance.

AECOM058

a. Surrogate Recoveries (p. H4): The recovery of the surrogate compound DCAA exceeded the upper quality control limit on column 1, and was not detected on column 2 in the analysis of SB-3(36-38). Significant interference was observed on column 2, masking the surrogate response and preventing accurate quantitation. Therefore, professional judgment was used to qualify the non-detect results as estimated "UJ", rather than to reject them as would normally be done in the case of recovery less than 10%.

b. Dual Column RPDs (p. H130): The dual column RPD for 2,4-DB in SB-17(40-42) was 152%. This result was rejected (i.e., qualified "R").

AECOM063

a. Dual Column RPDs (pp. H81-H82): The dual column RPD exceeded the 40% criteria in samples MW4A121609 and MW4A121609D. Results with RPDs greater than 40%, but less than or equal to 50%, were qualified "J," as estimated; results with RPDs greater than 50%, but less than or equal to 90% were qualified "JN,", as presumptively present at an estimated concentration; and results with RPDs greater than 90% were rejected (qualified "R"). Therefore the 2,4-DB result in MW4A121609 was rejected; the 2,4-D result was qualified "J" and the 2,4-DB result was qualified "JN" in sample MW4A121609D. Note that multiple non-target interferents were observed in these samples and are likely the cause of the poor agreement between columns. In all cases, the laboratory reported the lower value in accordance with Region 2 guidance.

6.0 Petroleum Fingerprint

AECOM058

No data quality issues were noted. No data qualifications were required.

7.0 Trace Metals

AECOM049

a. Contract Required Detection Limit (CRDL) Standard Recoveries (pp. M32-M33): The low level check standard recovery for lead was less than the lower quality control limit (QC limits 80-120%). The positive and non-detect lead results for associated samples SB-5 (28-30) and RB100509 were qualified "J and UJ," as estimated concentrations because of low method bias.

b. Matrix Spike Recoveries (pp. M43-M44): Sample SB-3 (4-5) was designated in the field to be processed as the MS sample. The silver MS recovery was less than the lower advisory limit (limits of 75-125%). The positive and non-detect silver results in samples SS-3, SS-4, SS-5, DUP-1, SB-3 (4-5), SB-17 (1-2), SS-2, SB-5 (16-18), SB-5 (28-30), SB-5 (52-54), SB-8 (2-3), and SB-7 (6-8) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

   The SB-3 (4-5) MS recovery for mercury was greater than the upper advisory limit (limits of 75-125%). The positive mercury results in samples SS-3, SS-4, SS-5, DUP-1, SB-3 (4-5), SB-17 (1-2), SS-2, SB-5 (16-18), SB-8 (2-3), and SB-7 (6-8) were qualified "J" as estimated concentrations because of high bias attributable to matrix effects.

   The SB-3 (4-5) MS and post-digestion spike recoveries for copper were less than the lower advisory limit for the MS and greater than the upper advisory limit for the post-digestion spike (limits of 75-125%). The positive copper results in samples SS-3, SS-4, SS-5, DUP-1, SB-3 (4-5), SB-17 (1-2), SS-2, SB-5 (16-18), SB-5 (28-30), SB-5 (52-54), SB-8 (2-3), and SB-7 (6-8) were qualified "J" as estimated concentrations because of conflicting low and high bias attributable to matrix effects.

c. Serial Dilution Percent Difference (%D) (p. M50): Serial dilution analysis was performed on sample SB-3 (4-5). Calcium, chromium, lead, magnesium, manganese, nickel, vanadium, and zinc did not meet QC limits of <10%D in this sample. The positive calcium, chromium, lead, magnesium, manganese, nickel, vanadium, and zinc results in samples SS-3, SS-4, SS-5, DUP-1, SB-3 (4-5), SB-17 (1-2), SS-2, SB-5 (16-18), SB-5 (28-30), SB-5 (52-54), SB-8 (2-3), and SB-7 (6-8) were qualified "J," as estimated concentrations.

AECOM050

a. Contract Required Detection Limit (CRDL) Standard Recoveries (pp. M40-M41): The low level check standard recovery for selenium was greater than the upper quality control limit (QC limits 80-120%). The positive selenium results for associated samples SB-15 (3-4), SB-16 (2-3), SB-18 (4-5), SB-9 (4-5), SB-9 (20-21.5), SB-9 (36-38), SB-10 (3-4), SB-10 (48-50), SB-13 (18-24), SB-14 (1-2), SB-14B (11-13), SB-4 (1-2), SB-10 (16-18), SB-10 (40-41.5), SB-12 (4-5), DUP-2, TP-3 (7.0), and TP-3 (7.5) were qualified "J," as estimated concentrations because of high method bias.

b. Matrix Spike Recoveries (p. M55): Sample TP-3 (7.5) was designated in the field to be processed as the MS sample. The antimony, silver, and thallium MS recoveries were less than the lower advisory limit (limits of 75-125%). The positive and non-detect antimony, silver, and thallium results in samples SB-15 (3-4), SB-16 (2-3), SB-18 (4-5), SB-9 (4-5), SB-9 (20-21.5), SB-9 (36-38), SB-9 (40-42), SB-10 (3-4), SB-10 (48-50), SB-13 (18-24), SB-14 (1-2), SB-14B (11-13), SB-4 (1-2), SB-10 (16-18), SB-10 (40-41.5), SB-12 (4-5), DUP-2, TP-3 (7.0), and TP-3 (7.5) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

   The TP-3 (7.5) MS recovery for mercury was greater than the upper advisory limit (limits of 75-125%). The positive mercury results in samples SB-15 (3-4), SB-16 (2-3), SB-18 (4-5), SB-9 (4-5), SB-10 (3-

4), SB-13 (18-24), SB-14 (1-2), SB-4 (1-2), SB-12 (4-5), DUP-2, TP-3 (7.0), and TP-3 (7.5) were qualified "J" as estimated concentrations because of high bias attributable to matrix effects.

c. Laboratory Duplicate RPDs (p. M57): Sample TP-3 (7.5) was designated in the field to be processed as the laboratory duplicate sample. The iron laboratory duplicate RPD exceeded the RPD criterion of 35%. The positive iron results in samples SB-15 (3-4), SB-16 (2-3), SB-18 (4-5), SB-9 (4-5), SB-9 (20-21.5), SB-9 (36-38), SB-9 (40-42), SB-10 (3-4), SB-10 (48-50), SB-13 (18-24), SB-14 (1-2), SB-14B (11-13), SB-4 (1-2), SB-10 (16-18), SB-10 (40-41.5), SB-12 (4-5), DUP-2, TP-3 (7.0), and TP-3 (7.5) were qualified "J" as estimated concentrations, because of imprecision, attributable to matrix effects and/or sample heterogeneity.

d. Serial Dilution Percent Difference (%D) (p. M62): Serial dilution analysis was performed on sample TP-3 (7.5). Cobalt and zinc did not meet QC limits of <10%D in this sample. The positive cobalt and zinc results in samples SB-15 (3-4), SB-16 (2-3), SB-18 (4-5), SB-9 (4-5), SB-9 (20-21.5), SB-9 (36-38), SB-9 (40-42), SB-10 (3-4), SB-10 (48-50), SB-13 (18-24), SB-14 (1-2), SB-14B (11-13), SB-4 (1-2), SB-10 (16-18), SB-10 (40-41.5), SB-12 (4-5), DUP-2, TP-3 (7.0), and TP-3 (7.5) were qualified "J," as estimated concentrations.

e. Dilutions (Form 14s): The iron and zinc results were analyzed at a 10-fold dilution for sample SB-16 (2-3), the zinc result was analyzed at a 10-fold dilution for sample SB-18 (4-5), and the iron result was analyzed at a 10-fold dilution for sample SB-10 (48-50) to bring these target analyte concentrations into the linear range. No validation actions were required.

AECOM051

a. Contract Required Detection Limit (CRDL) Standard Recoveries (p. M16): The low level check standard recovery for selenium was less than the lower quality control limit (QC limits 80-120%). The non-detect selenium result for associated sample GW-1 was qualified "J," as an estimated concentration because of low method bias.

b. Matrix Spike Recoveries (p. M25): Sample GW-1 was designated as the MS sample. The antimony and silver MS recoveries were less than the lower advisory limit (limits of 75-125%). The positive antimony and silver results in GW-1 were qualified "J" as estimated concentrations because of low bias attributable to matrix effects.

The GW-1 MS recovery for mercury was greater than the upper QC limit (QC limits of 75-125%). The positive mercury result in GW-1 was qualified "J" as an estimated concentration because of high bias attributable to matrix effects.

c. Serial Dilution Percent Difference (%D) (p. M32): Serial dilution analysis was performed on sample GW-1. Chromium, cobalt, lead, magnesium, manganese, nickel, and zinc did not meet QC limits of <10%D in this sample. The positive chromium, cobalt, lead, magnesium, manganese, nickel, and zinc results in sample GW-1 were qualified "J," as estimated concentrations.

AECOM056

a. Contract Required Detection Limit (CRDL) Standard Recoveries (p. M34): The low level check standard recovery for lead was less than the lower quality control limit (QC limits 80-120%). The positive and non-detect lead result for associated samples SB-11 (32-32.5) and RB2-101309 were qualified "J and UJ," as estimated concentrations because of low method bias.

b. Matrix Spike Recoveries (pp. M41-M42): Sample TP-1 (9) was designated in the field to be processed as the MS sample. The antimony, selenium, and silver MS recoveries were less than the lower advisory limit (limits of 75-125%R). The positive and non-detect antimony, selenium, and silver results in samples SB-13 (0-1), SB-13 (12-14), SB-12 (10-12.2), SB-15 (12-14), SB-15 (38-40), SB-15 (42-

44), SB-18 (12-14), SB-18 (38-40), SB-18 (42-44), SB-11 (16-18), SB-11 (32-32.5), SB-11 (54-56), TP-2 (8.5), TP-1 (9), DUP-3, SB-2B (5), and SB-6 (6) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

The TP-1 (9) MS recovery for mercury was greater than the upper advisory limit (limits of 75-125% but less than 200%). The positive mercury results in samples SB-13 (0-1), SB-13 (12-14), SB-12 (10-12.2), SB-15 (12-14), SB-18 (12-14), SB-11 (16-18), TP-2 (8.5), TP-1 (9), DUP-3, SB-2B (5), and SB-6 (6) were qualified "J" as estimated concentrations because of high bias attributable to matrix effects.

The TP-1 (9) MS and post-digestion spike recoveries for manganese were greater than the upper advisory limit (limits of 75-125% and greater than 200%). The positive manganese results in samples SB-13 (0-1), SB-13 (12-14), SB-12 (10-12.2), SB-15 (12-14), SB-15 (38-40), SB-15 (42-44), SB-18 (12-14), SB-18 (38-40), SB-18 (42-44), SB-11 (16-18), SB-11 (32-32.5), SB-11 (54-56), TP-2 (8.5), TP-1 (9), DUP-3, SB-2B (5), and SB-6 (6) were qualified "R" and are not usable for data quality objectives.

c. Laboratory Duplicate RPDs (p. M43): Sample TP-1 (9) was designated in the field to be processed as the laboratory duplicate sample. The arsenic, copper, and zinc laboratory duplicate RPD exceeded the RPD criterion of 35%. The positive arsenic, copper, and zinc results in samples SB-13 (0-1), SB-13 (12-14), SB-12 (10-12.2), SB-15 (12-14), SB-15 (38-40), SB-15 (42-44), SB-18 (12-14), SB-18 (38-40), SB-18 (42-44), SB-11 (16-18), SB-11 (32-32.5), SB-11 (54-56), TP-2 (8.5), TP-1 (9), DUP-3, SB-2B (5), and SB-6 (6) were qualified "J" as estimated concentrations, because of imprecision, attributable to matrix effects and/or sample heterogeneity.

d. Dilutions (Form 14s): The iron results were analyzed at a 10-fold dilution for samples SB-11 (16-18) and SB-11 (54-56) and the mercury result was analyzed at a 10-fold dilution for sample SB-13 (12-14) to bring these target analyte concentrations into the linear or calibration range. No validation actions were required.

AECOM057

a. Contract Required Detection Limit (CRDL) Standard Recoveries (p. M34): The low level check standard recovery for selenium was greater than the upper quality control limit (QC limits 80-120%). The positive selenium results for associated samples TP-1(12), SB-2B (37-38), SB-1(5), SB-14B (20-22), and SB-6(16-18) were qualified "J," as estimated concentrations because of high method bias.

b. Matrix Spike Recoveries (p. M43): Sample SB-4 (36-38) was designated as the MS sample. The antimony MS recovery was less than the lower advisory limit (limits of 75-125%). The positive and non-detect antimony results in samples SB-4 (36-38), SB-4 (44-46), TP-1 (12), SB-2B (14-16), SB-2B (37-38), SB-2B (42-44), SB-1(5), SB-14B (20-22), SB-14B (38-40), SB-14B (54-56), SB-16B (30-32), SB-16B (44-46), SB-6 (16-18), SB-6 (26-28), SB-6 (30-32), SB-12B (40-42), and SB-12B (48-50) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

c. Percent Solids (Form 1s): Sample SB-14B (20-22) had percent solids <50%. All metals in sample SB-14B (20-22) were qualified "J and UJ", as estimated concentrations attributable to sample heterogeneity.

d. Dilutions (Form 14s): The iron result was analyzed at a 20-fold dilution and the mercury result was analyzed at a 10-fold dilution for sample SB-6 (16-18) to bring these target analyte concentrations into the linear and calibration range, respectively. No validation actions were required.

AECOM058

a. Contract Required Detection Limit (CRDL) Standard Recoveries (p. M34-M35, M37): The low level check standard recovery for selenium was greater than the upper quality control limit (QC limits 80-120%). The positive selenium results for associated samples SB-3 (36-38) and SB-17 (16-18) were qualified "J," as estimated concentrations because of high method bias.

b. Matrix Spike Recoveries (p. M43): Sample SB-3 (36-38) was designated as the MS sample. The silver MS recovery was less than the lower advisory limit (limits of 75-125%). The positive and non-detect silver results in samples SB-3 (36-38), SB-3 (46-48), SB-8 (24-26), SB-17 (16-18), SB-17 (36-38), SB-17 (40-42), SB-7 (38-40), and SB-7 (44-46) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

AECOM062

a. Matrix Spike Recoveries (p. M31): Sample SB-1C (23-25) was designated in the field to be processed as the MS sample. The antimony and selenium recoveries were less than the lower advisory limit (limits of 75-125%). The positive and nondetect antimony and selenium results in samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were qualified "J and UJ" as estimated concentrations because of low bias attributable to matrix effects.

   The SB-1C (23-25) MS recovery for manganese was greater than the upper advisory limit (limits of 75-125%R). The positive manganese results in samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were qualified "J" as estimated concentrations because of high bias attributable to matrix effects.

b. Serial Dilution Percent Difference (%D) (p. M39): Serial dilution analysis was performed on sample SB-1C (23-25). Aluminum, calcium, chromium, copper, iron, magnesium, manganese, potassium, sodium, vanadium, and zinc did not meet QC limits of <10%D in this sample. The positive Aluminum, calcium, chromium, copper, iron, magnesium, manganese, potassium, sodium, vanadium, and zinc results in samples SB-1C (23-25), SB-1C (80-81.5), SB-1C DUP01 (112009), and SB-1C (98-100) were qualified "J," as estimated concentrations.

AECOM063

a. Matrix Spike Recoveries (p. M34): Sample MW3A121509 was designated in the field to be processed as the MS sample. The selenium recovery was greater than the upper advisory limit (limits of 75-125%). The positive selenium results in samples MW1A121409, MW1C121409, and MW4A121609 were qualified "J" as estimated concentrations because of high bias attributable to matrix effects.

b. Serial Dilution Percent Difference (%D) (p. M39): Serial dilution analysis was performed on sample MW3A121509. Potassium did not meet QC limits of <10%D in this sample. The positive potassium results in samples MW1A121409, MW1B121409, MW1C121409, MW3A121509, MW3C121509, and MW4A121609 were qualified "J," as estimated concentrations.

AECOM064

a. Serial Dilution Percent Difference (%D) (p. M58): Serial dilution analysis was performed on sample MW2A121609. Potassium did not meet QC limits of <10%D in this sample. The positive potassium results in samples MW6B121409, MW4B121509, MW4C121509, MW4C121509D, MW6A121509, MW7A121509, MW7B121509, MW2A121609, MW2B121609, MW5A121609, MW5B121609, and PW1121609 were qualified "J," as estimated concentrations because of physical/chemical matrix interferences.

8.0 Total and Free Cyanide

AECOM049

No data quality issues were noted. No data qualifications were required.

AECOM050

Dilutions and Reporting Limits: Samples SB-9 (4-5), SB-14 (1-2), and SB-18 (4-5) required analysis at an initial dilution to minimize matrix interference. The dilutions elevated the detection and quantitation limits.

Sample SB-13 (18-25) required analysis at a dilution to bring the free cyanide concentration into the calibration range. No data qualification was required.

AECOM051

No data quality issues were noted. No data qualifications were required.

AECOM056

Data Reporting (p. W24): Sample SB-13 (12-14) required analysis at a five-fold dilution to bring the free cyanide concentration into the calibration range and/minimize matrix interference. There was an error when the analyst manually entered the dilution factor and it overwrote the result by changing the dilution adjusted PQL. The effect was that a non-detect result was reported in error. The data report page was revised.

AECOM057

a. Contract Required Detection Limit (CRDL) Standard Recoveries (p. W25): The low level check standard recovery for free cyanide was less than the lower quality control limit (QC limits 70-130%). The free cyanide results for associated samples SB-4 (36-38), SB-4 (44-46), SB-2B (14-16), SB-2B (37-38), and SB-2B (42-44) were non-detect and were qualified "UJ," as estimates because of low method bias.

b. Percent Solids (Form 1s): Sample SB-14B (20-22) had percent solids <50%. The non-detect free cyanide result for sample SB-14B (20-22) was qualified UJ," as an estimate attributable to sample heterogeneity.

AECOM058

No data quality issues were noted. No data qualifications were required.

AECOM062

No data quality issues were noted. No data qualifications were required.

AECOM063

No data quality issues were noted. No data qualifications were required.

AECOM064

Contract Required Detection Limit (CRDL) Standard Recoveries (pp. M41, M81, M281): The low level check standard recovery for total cyanide was greater than the upper quality control limit (QC limits 70-130%). The

positive total cyanide result for associated sample MW2B121609 was qualified “J,” as an estimated concentration, because of high method bias.

9.0 Field Duplicate Comparisons

The samples listed in the table below were the parent and field duplicate samples collected for this sampling event.

Parent	Field Duplicate	Matrix
SS-2	DUP-1	Soil
TP-3 (7.0)	DUP-2	Soil
TP-1 (12)	DUP-3	Soil
SB-1C (80-81.5)	SB-1C DUP01 (112009)	Soil
MW4A121609	MW4A121609D	Groundwater
MW4C121509	MW4C121509D	Groundwater

Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments and ≤ 30% for groundwater samples or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 35% for soil/sediments and ≤ 20% for groundwater samples or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate samples were non-detects, with exception to those listed in Tables 2A through 2F below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compunds except for those results listed below in bolded text. The bolded results were qualified "J/UJ," as estimates because of laboratory/field sampling imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/L: micrograms per liter (ppb)

µg/Kg: micrograms per kilogram (ppb)

mg/Kg: milligrams per kilogram (ppm)

%: percent

Table 2A – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	SS-2		DUP-1		RPD (%)
Acenaphthylene	84 J	µg/Kg	370 U	µg/Kg	NC*
Phenanthrene	650	µg/Kg	380	µg/Kg	52*
Anthracene	160 J	µg/Kg	100 J	µg/Kg	46
Fluoranthene	**1600**	**µg/Kg**	**910**	**µg/Kg**	**55**
Pyrene	**1600**	**µg/Kg**	**900**	**µg/Kg**	**56**
Butyl benzyl phthalate	**320 J**	**µg/Kg**	**820**	**µg/Kg**	**88**
Benzo(a)anthracene	1000	µg/Kg	630	µg/Kg	45
Chrysene	920	µg/Kg	580	µg/Kg	45
bis(2-Ethylhexyl)phthalate	**440**	**µg/Kg**	**1200**	**µg/Kg**	**93**
Benzo(b)fluoranthene	1200	µg/Kg	730	µg/Kg	49
Benzo(k)fluoranthene	480	µg/Kg	290	µg/Kg	49
Benzo(a)pyrene	990	µg/Kg	620	µg/Kg	46
Indeno(1,2,3-cd)pyrene	510	µg/Kg	370	µg/Kg	32
Dibenzo(a,h)anthracene	160 J	µg/Kg	140 J	µg/Kg	13
Benzo(g,h,i)perylene	500	µg/Kg	380	µg/Kg	27
2,4-DB	19	µg/Kg	9.2 J	µg/Kg	70*
2,4,5-T	13	µg/Kg	7	µg/Kg	60*
Aroclor 1242	51	µg/Kg	37 U	µg/Kg	NC
Aroclor 1254	**53**	**µg/Kg**	**130**	**µg/Kg**	**84**
Aroclor 1260	47	µg/Kg	59	µg/Kg	23
DDT,4,4-	19	µg/Kg	24	µg/Kg	23
Alpha-chlordane	9.9	µg/Kg	7.9	µg/Kg	22
Chlordane, trans-	11	µg/Kg	10	µg/Kg	10
DDE,4,4-	3.6	µg/Kg	3.7 U	µg/Kg	NC
Dieldrin	3.1	µg/Kg	6.1	µg/Kg	65
Endrin ketone	4.6	µg/Kg	7.1	µg/Kg	43
Heptachlor	1.4	µg/Kg	1.9 U	µg/Kg	NC
Heptachlor epoxide	2.2	µg/Kg	3.0	µg/Kg	31
Aluminum	5070	mg/Kg	5600	mg/Kg	10
Antimony	1.0 J	mg/Kg	2.2 J	mg/Kg	75*
Arsenic	**4.9**	**mg/Kg**	**7.3**	**mg/Kg**	**39**
Barium	**93**	**mg/Kg**	**137**	**mg/Kg**	**38**
Beryllium	0.31 J	mg/Kg	0.35 J	mg/Kg	12
Cadmium	0.35 J	mg/Kg	0.41 J	mg/Kg	16
Calcium	**47700**	**mg/Kg**	**28800**	**mg/Kg**	**49**
Chromium	18.4	mg/Kg	18.5	mg/Kg	1
Cobalt	5.6	mg/Kg	7.3	mg/Kg	26
Copper	**63.1**	**mg/Kg**	**94.6**	**mg/Kg**	**40**
Iron	**13100**	**mg/Kg**	**19400**	**mg/Kg**	**39**
Lead	184	mg/Kg	183	mg/Kg	1
Magnesium	**6900**	**mg/Kg**	**3990**	**mg/Kg**	**53**
Manganese	235	mg/Kg	237	mg/Kg	1
Mercury	**0.14**	**mg/Kg**	**0.22**	**mg/Kg**	**44**
Nickel	15.7	mg/Kg	18.7	mg/Kg	17
Potassium	866	mg/Kg	903	mg/Kg	4

Parameter	SS-2		DUP-1		RPD (%)
Silver	0.21 J	mg/Kg	0.34 J	mg/Kg	47*
Sodium	428 J	mg/Kg	343 J	mg/Kg	22
Thallium	0.85 J	mg/Kg	1.3	mg/Kg	42*
Vanadium	20.8	mg/Kg	24.6	mg/Kg	17
Zinc	**275**	**mg/Kg**	**425**	**mg/Kg**	**43**
Total Solids	90.8	%	89.7	%	1

Table 2B – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	TP-3 (7.0)		DUP-2		RPD (%)
Naphthalene	**1200**	**µg/Kg**	**710**	**µg/Kg**	**51**
2-Methylnaphthalene	490	µg/Kg	320 J	µg/Kg	42
1,1'-Biphenyl	110 J	µg/Kg	95 J	µg/Kg	15
Acenaphthylene	180 J	µg/Kg	160 J	µg/Kg	12
Acenaphthene	270 J	µg/Kg	620	µg/Kg	79*
Dibenzofuran	290 J	µg/Kg	560	µg/Kg	64*
Fluorene	**360 J**	**µg/Kg**	**790**	**µg/Kg**	**75**
Phenanthrene	**3100**	**µg/Kg**	**10000**	**µg/Kg**	**105**
Anthracene	**760**	**µg/Kg**	**2700**	**µg/Kg**	**112**
Carbazole	**220 J**	**µg/Kg**	**730**	**µg/Kg**	**107**
Fluoranthene	**4300**	**µg/Kg**	**14000**	**µg/Kg**	**106**
Pyrene	**3400**	**µg/Kg**	**11000**	**µg/Kg**	**106**
Benzo(a)anthracene	**2000**	**µg/Kg**	**5600**	**µg/Kg**	**95**
Chrysene	**1900**	**µg/Kg**	**5200**	**µg/Kg**	**93**
Benzo(b)fluoranthene	**2300**	**µg/Kg**	**5900**	**µg/Kg**	**88**
Benzo(k)fluoranthene	**790**	**µg/Kg**	**1700**	**µg/Kg**	**73**
Benzo(a)pyrene	**1600**	**µg/Kg**	**4700**	**µg/Kg**	**98**
Indeno(1,2,3-cd)pyrene	**570**	**µg/Kg**	**1500**	**µg/Kg**	**90**
Dibenzo(a,h)anthracene	250 J	µg/Kg	530	µg/Kg	72*
Benzo(g,h,i)perylene	**440**	**µg/Kg**	**1000**	**µg/Kg**	**78**
Aluminum	**4470**	**mg/Kg**	**7140**	**mg/Kg**	**46**
Antimony	2.1 J	mg/Kg	2.2 J	mg/Kg	5
Arsenic	7.3	mg/Kg	7.1	mg/Kg	3
Barium	92.7	mg/Kg	127	mg/Kg	31
Beryllium	0.38 J	mg/Kg	0.51 J	mg/Kg	29
Cadmium	0.14 J	mg/Kg	0.040 U	mg/Kg	NC*
Calcium	**5790**	**mg/Kg**	**3820**	**mg/Kg**	**41**
Chromium	**12.6**	**mg/Kg**	**20.5**	**mg/Kg**	**48**
Cobalt	5.8	mg/Kg	7.7	mg/Kg	28
Copper	141	mg/Kg	109	mg/Kg	26
Iron	**17100**	**mg/Kg**	**26300**	**mg/Kg**	**42**
Lead	199	mg/Kg	280	mg/Kg	34
Magnesium	**3400**	**mg/Kg**	**2370**	**mg/Kg**	**36**
Manganese	323	mg/Kg	339	mg/Kg	5
Mercury	0.26	mg/Kg	0.34	mg/Kg	27

Parameter	TP-3 (7.0)		DUP-2		RPD (%)
Nickel	11.7	mg/Kg	17.5	mg/Kg	40*
Potassium	671	mg/Kg	817	mg/Kg	20
Selenium	0.86	mg/Kg	0.94	mg/Kg	9
Silver	0.27 J	mg/Kg	0.26 J	mg/Kg	4
Sodium	148 J	mg/Kg	111 J	mg/Kg	29
Thallium	2.0	mg/Kg	3.1	mg/Kg	43*
Vanadium	22	mg/Kg	29.1	mg/Kg	28
Zinc	338	mg/Kg	298	mg/Kg	13
Total Solids	87.1	%	84.7	%	3

Table 2C – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	TP-1 (12)		DUP-3		RPD (%)
Acetone	31 U	µg/Kg	18 J	µg/Kg	NC*
Naphthalene	**2900**	**µg/Kg**	**990**	**µg/Kg**	**98**
2-Methylnaphthalene	620	µg/Kg	240 J	µg/Kg	88*
1,1'-Biphenyl	170 J	µg/Kg	85 J	µg/Kg	67*
Acenaphthylene	**710**	**µg/Kg**	**250 J**	**µg/Kg**	**96**
Acenaphthene	450	µg/Kg	250 J	µg/Kg	57*
Dibenzofuran	600	µg/Kg	310 J	µg/Kg	64*
Fluorene	**990**	**µg/Kg**	**440**	**µg/Kg**	**77**
Phenanthrene	4100	µg/Kg	2800	µg/Kg	38
Anthracene	**1300**	**µg/Kg**	**720**	**µg/Kg**	**57**
Carbazole	390 J	µg/Kg	280 J	µg/Kg	33
Fluoranthene	6200	µg/Kg	4200	µg/Kg	38
Pyrene	4400	µg/Kg	3000	µg/Kg	38
Benzo(a)anthracene	2400	µg/Kg	1600	µg/Kg	40
Chrysene	2500	µg/Kg	1500	µg/Kg	50
bis(2-Ethylhexyl)phthalate	120 J	µg/Kg	90 J	µg/Kg	29
Benzo(b)fluoranthene	**3200**	**µg/Kg**	**1700**	**µg/Kg**	**61**
Benzo(k)fluoranthene	930	µg/Kg	690	µg/Kg	30
Benzo(a)pyrene	**2800**	**µg/Kg**	**1400**	**µg/Kg**	**67**
Indeno(1,2,3-cd)pyrene	690	µg/Kg	590	µg/Kg	16
Dibenzo(a,h)anthracene	290 J	µg/Kg	200 J	µg/Kg	37
Benzo(g,h,i)perylene	490	µg/Kg	440	µg/Kg	11
Aluminum	6240	mg/Kg	4630	mg/Kg	30
Antimony	2.6 J	mg/Kg	2.2 J	mg/Kg	17
Arsenic	5.3	mg/Kg	3.8	mg/Kg	33
Barium	**316**	**mg/Kg**	**214**	**mg/Kg**	**38**
Beryllium	0.42 J	mg/Kg	0.29 J	mg/Kg	37*
Cadmium	0.46 J	mg/Kg	0.20 J	mg/Kg	79*
Calcium	6970	mg/Kg	5500	mg/Kg	24
Chromium	15.2	mg/Kg	11.3	mg/Kg	29
Cobalt	5.5 J	mg/Kg	4.8 J	mg/Kg	14
Copper	57	mg/Kg	55.5	mg/Kg	3

Parameter	TP-1 (12)		DUP-3		RPD (%)
Iron	12300	mg/Kg	10600	mg/Kg	15
Lead	195	mg/Kg	142	mg/Kg	31
Magnesium	2530	mg/Kg	2330	mg/Kg	8
Manganese	147	mg/Kg	124	mg/Kg	17
Mercury	**0.46**	**mg/Kg**	**0.23**	**mg/Kg**	**67**
Nickel	13.3	mg/Kg	11.5	mg/Kg	15
Potassium	992	mg/Kg	871	mg/Kg	13
Selenium	0.33 J	mg/Kg	0.30 U	mg/Kg	NC*
Silver	0.21 J	mg/Kg	0.099 U	mg/Kg	NC*
Sodium	132 J	mg/Kg	128 J	mg/Kg	3
Vanadium	21.8	mg/Kg	17.0	mg/Kg	25
Zinc	**282**	**mg/Kg**	**170**	**mg/Kg**	**50**
Total Solids	79.5	%	83.7	%	5

Table 2D – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	SB-1C (80-81.5)		SB-1C DUP01 (112009)		RPD (%)
Naphthalene	550000	µg/Kg	520000	µg/Kg	6
2-Methylnaphthalene	310000	µg/Kg	270000	µg/Kg	14
1'1-Biphenyl	25000	µg/Kg	22000	µg/Kg	13
Acenaphthylene	60000	µg/Kg	55000	µg/Kg	9
Acenapthene	8200	µg/Kg	7600	µg/Kg	8
Dibenzofuran	6100	µg/Kg	5700	µg/Kg	7
Fluorene	46000	µg/Kg	40000	µg/Kg	14
Phenanthrene	150000	µg/Kg	120000	µg/Kg	22
Anthracene	33000	µg/Kg	30000	µg/Kg	10
Carbazole	1000 J	µg/Kg	920 J	µg/Kg	8
Fluoranthene	32000	µg/Kg	30000	µg/Kg	6
Pyrene	45000	µg/Kg	39000	µg/Kg	14
Benzo(a)anthracene	20000	µg/Kg	18000	µg/Kg	11
Chrysene	19000	µg/Kg	17000	µg/Kg	11
Benzo(b)fluoanthene	9600	µg/Kg	8600	µg/Kg	11
Benzo(k)fluroanthene	7200	µg/Kg	6300	µg/Kg	13
Benzo(a)pyrene	15000	µg/Kg	13000	µg/Kg	14
Indeno(1,2,3,-cd)pyrene	5200	µg/Kg	4000	µg/Kg	26
Dibenzo(a,h)anthracene	3200 J	µg/Kg	2300 J	µg/Kg	33
Benzo(g,h,i)pyerylene	4400	µg/Kg	3300 J	µg/Kg	29
Methylene chloride	56 J	µg/Kg	57 J	µg/Kg	2
Toluene	**300**	**µg/Kg**	**120**	**µg/Kg**	**86**
Ethylbenzene	**1200**	**µg/Kg**	**670**	**µg/Kg**	**57**
Styrene	16000	µg/Kg	14000	µg/Kg	13
m&p-xylene	16000	µg/Kg	12000	µg/Kg	29
o-xylene	9700	µg/Kg	8500	µg/Kg	13
Isopropylbenzene	100	µg/Kg	61	µg/Kg	48
Aluminum	2660	mg/Kg	2910	mg/Kg	9
Antimony	0.25 U	mg/Kg	0.27 J	mg/Kg	NC*

Parameter	SB-1C (80-81.5)		SB-1C DUP01 (112009)		RPD (%)
Barium	10.8 J	mg/Kg	17.8 J	mg/Kg	49*
Beryllium	0.14 J	mg/Kg	0.16 J	mg/Kg	13
Calcium	592	mg/Kg	773	mg/Kg	27
Chromium	4.7	mg/Kg	5.4	mg/Kg	14
Cobalt	2.9 J	mg/Kg	3.0 J	mg/Kg	3
Copper	7.1	mg/Kg	7.7	mg/Kg	8
Iron	6810	mg/Kg	5960	mg/Kg	13
Lead	2.0	mg/Kg	2.1	mg/Kg	5
Magnesium	1320	mg/Kg	1420	mg/Kg	7
Manganese	143	mg/Kg	146	mg/Kg	2
Nickel	5.0	mg/Kg	5.7	mg/Kg	13
Potassium	405 J	mg/Kg	490 J	mg/Kg	19
Sodium	105 J	mg/Kg	138 J	mg/Kg	27
Vanadium	6.2	mg/Kg	6.1	mg/Kg	2
Zinc	14	mg/Kg	15.6	mg/Kg	11
% Solids	87.0	%	85.6	%	2

Table 2E – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	MW4A121609		MW4A121609D		RPD (%)
Acetone	54	µg/L	57	µg/L	5
Chloroform	1	µg/L	1	µg/L	0
2-Butanone	13	µg/L	13	µg/L	0
Methyl tert-butyl ether	2	µg/L	2	µg/L	0
Benzene	5700	µg/L	5700	µg/L	0
Cyclohexane	2	µg/L	2	µg/L	0
Toluene	1900	µg/L	1900	µg/L	0
Ethylbenzene	52	µg/L	49	µg/L	6
Styrene	160	µg/L	160	µg/L	0
m&p-Xylene	510	µg/L	500	µg/L	2
o-Xylene	170	µg/L	170	µg/L	0
4,4'-DDT	0.071	µg/L	0.10 U	µg/L	NC*
Endrin ketone	0.10 U	µg/L	0.093	µg/L	NC*
Methoxychlor	0.46	µg/L	0.50 U	µg/L	NC*
4,4'-DDD	0.18	µg/L	0.22	µg/L	20
Endosulfan sulfate	0.093	µg/L	0.10 U	µg/L	NC*
beta-BHC	0.12	µg/L	0.12	µg/L	4
4,4'-DDE	0.24	µg/L	0.23	µg/L	4
2,4-D	0.50 U	µg/L	0.67	µg/L	NC*

Table 2F – Field Precision
National Grid/ Equity Former MGP 2009 Samples

Parameter	MW4C121509		MW4C121509D		RPD (%)
trans-1,2-Dichloroethene	1500	µg/L	1400	µg/L	7
cis-1,2-Dichloroethene	850	µg/L	830	µg/L	2
Trichloroethene	63	µg/L	58	µg/L	8
Benzene	190	µg/L	190	µg/L	0
Toluene	39	µg/L	42	µg/L	7
Ethylbenzene	170	µg/L	160	µg/L	6
Styrene	3 J	µg/L	3 J	µg/L	0
m,p-Xylene	33	µg/L	34	µg/L	3
o-Xylene	19	µg/L	18	µg/L	5
Isopropylbenzene	45	µg/L	42	µg/L	7
2/3-Methylphenol	19	µg/L	29	µg/L	41*
Phenol	21	µg/L	27	µg/L	25
2-Methylphenol	16	µg/L	19	µg/L	17
Naphthalene	**1900 J**	**µg/L**	**1300 J**	**µg/L**	**38**
2-Methylnaphthalene	150 J	µg/L	120 J	µg/L	22
1,1'-Biphenyl	15	µg/L	14	µg/L	7
Acenaphthylene	58	µg/L	55	µg/L	5
Acenaphthene	120 J	µg/L	120 J	µg/L	0
Dibenzofuran	36	µg/L	36	µg/L	0
Fluorene	44	µg/L	43	µg/L	2
Phenanthrene	66	µg/L	65	µg/L	2
Anthracene	13	µg/L	13	µg/L	0
Carbazole	72	µg/L	75	µg/L	4
Fluoranthene	13	µg/L	13	µg/L	0
Pyrene	8 J	µg/L	8 J	µg/L	0
Aluminum	80.5 J	µg/L	93.2 J	µg/L	15
Barium	136 J	µg/L	151 J	µg/L	10
Calcium	62800	µg/L	69700	µg/L	10
Copper	2.5 J	µg/L	2.6 J	µg/L	4
Iron	2160	µg/L	2440	µg/L	12
Lead	2.3 J	µg/L	3.2	µg/L	33*
Magnesium	36100	µg/L	40200	µg/L	11
Manganese	668	µg/L	748	µg/L	11
Nickel	6.7 J	µg/L	7.1 J	µg/L	6
Potassium	10300	µg/L	11300	µg/L	9
Sodium	137000	µg/L	150000	µg/L	9
Zinc	13.6 J	µg/L	14.7 J	µg/L	8
Total Cyanide	10.6	µg/L	9.9 J	µg/L	7

10.0 Notes

Positive organic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Positive inorganic results less than the reporting limit, but greater than the MDL were flagged with a “B,” to indicate an estimated concentration, due to increased uncertainty near the detection limit. The “B” flags were changed to “J” qualifiers by the validator.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3482.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.22 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	14	~~B~~ U
67-64-1	Acetone	28	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	28	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	28	U
591-78-6	2-Hexanone	28	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S111

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3482.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.22 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S112

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3482.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.22 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S113

1F

EPA SAMPLE NO.

SS-2

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3482.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.22 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S114

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1 SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3480.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 10.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	14	~~B~~ U
67-64-1	Acetone	28	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	28	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	28	U
591-78-6	2-Hexanone	28	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S99

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3480.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 10.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S100

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3480.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 10.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S101

1F

EPA SAMPLE NO.

DUP-1

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3480.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 10.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S102

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 14.6 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	15 ~~14~~	~~B~~ U
67-64-1	Acetone	29	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S83

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 14.6 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S84

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 14.6 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S85

1F

EPA SAMPLE NO.

SS-3

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 14.6 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S86

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 9.93 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	14	~~B~~ U
67-64-1	Acetone	28	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	28	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	28	U
591-78-6	2-Hexanone	28	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S87

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 9.93 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S88

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 9.93 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S89

1F

EPA SAMPLE NO.

SS-4

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 9.93 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 8.44 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~13~~ 14	~~B~~ U
67-64-1	Acetone	27	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	27	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S95

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 8.44 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S96

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 8.44 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S97

1F

EPA SAMPLE NO.

SS-5

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 8.44 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S98

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910491-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7626.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 S91

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910491-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7626.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 S92

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910491-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7626.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM049 S93

1F

EPA SAMPLE NO.

TB-092109

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910491-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7626.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S94

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3477.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.88 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~13~~ 14	~~B~~ U
67-64-1	Acetone	28	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U J
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	28	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	28	U
591-78-6	2-Hexanone	28	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S103

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3477.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.88 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

AECOM049 S104

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3477.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.88 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S105

1F

EPA SAMPLE NO.

SB-3 (4'-5')

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3477.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 9.88 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S106

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3481.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 7.91 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U J
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	~~13~~ 14	~~B~~ 4
67-64-1	Acetone	45	J
75-69-4	Trichlorofluoromethane	5	U J
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	1	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	J
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 S107

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3481.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 7.91 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	19	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	J

AECOM049 S108

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3481.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 7.91 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	20	
95-47-6	o-Xylene	6	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM049 S109

1F

EPA SAMPLE NO.

SB-17 (1'-2')

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3481.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 7.91 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 8 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene (8.38)	8.38	27	J
2.		c3 substituted benzene (8.5)	8.50	140	J
3.		methyl benzofuran isomer	8.82	13	J
4.		c4 substituted benzene (9.05)	9.05	10	J
5.		c4 substituted benzene (9.11)	9.11	14	J
6.		benzothiophene isomer	9.44	56	J
7.	000090-12-0	Naphthalene, 1-methyl-	10.17	85	JN
8.	000092-52-4	Biphenyl	10.56	17	JN

AECOM049 S110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3485.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	68	U
75-71-8	Dichlorodifluoromethane	68	U
74-83-9	Bromomethane	68	U
75-01-4	Vinyl chloride	68	U J
75-00-3	Chloroethane	68	U
75-09-2	Methylene chloride	200	~~B~~ U
67-64-1	Acetone	~~170~~ 340	~~J~~ U
75-69-4	Trichlorofluoromethane	68	U J
75-35-4	1,1-Dichloroethene	68	U
75-15-0	Carbon disulfide	20	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	68	U
75-34-3	1,1-Dichloroethane	68	U
67-66-3	Chloroform	68	U
107-06-2	1,2-Dichloroethane	68	U
79-20-9	Methyl Acetate	68	U
78-93-3	2-Butanone	44	J
71-55-6	1,1,1-Trichloroethane	68	U
156-60-5	trans-1,2-Dichloroethene	68	U
56-23-5	Carbon tetrachloride	68	U
1634-04-4	Methyl tert-butyl ether	68	U
75-27-4	Bromodichloromethane	68	U
78-87-5	1,2-Dichloropropane	68	U
156-59-2	cis-1,2-Dichloroethene	68	U
10061-01-5	cis-1,3-Dichloropropene	68	U
79-01-6	Trichloroethene	68	U
124-48-1	Dibromochloromethane	68	U
79-00-5	1,1,2-Trichloroethane	68	U
71-43-2	Benzene	17000 ~~17000~~	~~E~~ J
110-82-7	Cyclohexane	68	U
10061-02-6	trans-1,3-Dichloropropene	68	U
75-25-2	Bromoform	68	U
108-10-1	4-Methyl-2-pentanone	340	U
591-78-6	2-Hexanone	340	U
127-18-4	Tetrachloroethene	68	U
79-34-5	1,1,2,2-Tetrachloroethane	68	U

AECOM049 S115

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3485.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	68	U
108-88-3	Toluene	63000 ~~21000~~	~~B~~
108-90-7	Chlorobenzene	68	U
100-41-4	Ethylbenzene	260000 ~~25000~~	~~B~~
100-42-5	Styrene	68	U

AECOM049 S116

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3485.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	250000 ~~21000~~	~~E~~
95-47-6	o-Xylene	140000 ~~16000~~	~~E~~
106-93-4	1,2-Dibromoethane	68	U
98-82-8	Isopropylbenzene	29000 ~~4200~~	~~E~~
541-73-1	1,3-Dichlorobenzene	68	U
106-46-7	1,4-Dichlorobenzene	68	U
95-50-1	1,2-Dichlorobenzene	68	U
96-12-8	1,2-Dibromo-3-chloropropane	68	U
120-82-1	1,2,4-Trichlorobenzene	68	U

AECOM049 S117

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66796.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-38-3/106-42-3	m,p-Xylene	250000	D ✓	Repeat
95-47-6	o-Xylene	140000	D ✓	Repeat
106-93-4	1,2-Dibromoethane	17000	U	
98-82-8	Isopropylbenzene	29000	D ✓	Repeat
541-73-1	1,3-Dichlorobenzene	17000	U	
106-46-7	1,4-Dichlorobenzene	17000	U	
95-50-1	1,2-Dichlorobenzene	17000	U	
96-12-8	1,2-Dibromo-3-chloropropane	17000	U	
120-82-1	1,2,4-Trichlorobenzene	17000	U	

AECOM049 S121

1F

EPA SAMPLE NO.

SB-5 (16'-18')

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3485.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 9 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3 substituted benzene (7.81)	7.81	18000	J
2.	c3 substituted benzene (8.06)	8.06	14000	J
3.	c3 substituted benzene (8.11)	8.11	13000	J
4.	c3 substituted benzene (8.29)	8.29	13000	J
5.	c3 substituted benzene (8.39)	8.39	15000	J
6.	c3 substituted benzene (8.41)	8.41	22000	J
7.	c3 substituted benzene (8.53)	8.53	18000	J
8.	c4 substituted benzene (9.06)	9.06	11000	J
9.	c4 substituted benzene (9.12)	9.12	11000	J

AECOM049 S118

1F

EPA SAMPLE NO.

SB-5 (16'-18')DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66796.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

Number TICs found: 8 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (14.86)	14.86	780000	JD
2.		c3-subs_benzene (15.52)	15.52	400000	JD
3.		c3-subs_benzene (16.15)	16.15	210000	JD
4.		c3-subs_benzene (16.49)	16.49	1200000	JD
5.		c3-subs_benzene (16.82)	16.82	920000	JD
6.		c4-subs_benzene (18.57)	18.57	460000	JD
7.		c4-subs_benzene (18.75)	18.75	510000	JD
8.	000090-12-0	Naphthalene, 1-methyl-	22.27	340000	JND

AECOM049 S122

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66796.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	17000	U
75-71-8	Dichlorodifluoromethane	17000	U
74-83-9	Bromomethane	17000	U
75-01-4	Vinyl chloride	17000	U
75-00-3	Chloroethane	17000	U
75-09-2	Methylene chloride	17000	U
67-64-1	Acetone	85000	U
75-69-4	Trichlorofluoromethane	17000	U
75-35-4	1,1-Dichloroethene	17000	U
75-15-0	Carbon disulfide	17000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17000	U
75-34-3	1,1-Dichloroethane	17000	U
67-66-3	Chloroform	17000	U
107-06-2	1,2-Dichloroethane	17000	U
79-20-9	Methyl Acetate	17000	U
78-93-3	2-Butanone	85000	U
71-55-6	1,1,1-Trichloroethane	17000	U
156-60-5	trans-1,2-Dichloroethene	17000	U
56-23-5	Carbon tetrachloride	17000	U
1634-04-4	Methyl tert-butyl ether	17000	U
75-27-4	Bromodichloromethane	17000	U
78-87-5	1,2-Dichloropropane	17000	U
156-59-2	cis-1,2-Dichloroethene	17000	U
10061-01-5	cis-1,3-Dichloropropene	17000	U
79-01-6	Trichloroethene	17000	U
124-48-1	Dibromochloromethane	17000	U
79-00-5	1,1,2-Trichloroethane	17000	U
71-43-2	Benzene	15000	DJ
110-82-7	Cyclohexane	17000	U
10061-02-6	trans-1,3-Dichloropropene	17000	U
75-25-2	Bromoform	17000	U
108-10-1	4-Methyl-2-pentanone	85000	U
591-78-6	2-Hexanone	85000	U
127-18-4	Tetrachloroethene	17000	U
79-34-5	1,1,2,2-Tetrachloroethane	17000	U

D.O.

AECOM049 S119

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66796.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 26.7 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	17000	U	
108-88-3	Toluene	63000	D	✓ report
108-90-7	Chlorobenzene	17000	U	
100-41-4	Ethylbenzene	260000	D	✓ report
100-42-5	Styrene	17000	U	

AECOM049 S120

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3486.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	61	U
75-71-8	Dichlorodifluoromethane	61	U
74-83-9	Bromomethane	61	U
75-01-4	Vinyl chloride	61	U J
75-00-3	Chloroethane	61	U
75-09-2	Methylene chloride	160	~~B~~ U
67-64-1	Acetone	~~67~~ 300	~~J~~ U
75-69-4	Trichlorofluoromethane	61	U J
75-35-4	1,1-Dichloroethene	61	U
75-15-0	Carbon disulfide	17	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	61	U
75-34-3	1,1-Dichloroethane	61	U
67-66-3	Chloroform	61	U
107-06-2	1,2-Dichloroethane	61	U
79-20-9	Methyl Acetate	61	U
78-93-3	2-Butanone	300	U
71-55-6	1,1,1-Trichloroethane	61	U
156-60-5	trans-1,2-Dichloroethene	61	U
56-23-5	Carbon tetrachloride	61	U
1634-04-4	Methyl tert-butyl ether	61	U
75-27-4	Bromodichloromethane	61	U
78-87-5	1,2-Dichloropropane	61	U
156-59-2	cis-1,2-Dichloroethene	61	U
10061-01-5	cis-1,3-Dichloropropene	61	U
79-01-6	Trichloroethene	61	U
124-48-1	Dibromochloromethane	61	U
79-00-5	1,1,2-Trichloroethane	61	U
71-43-2	Benzene	2700	~~E~~ J
110-82-7	Cyclohexane	61	U
10061-02-6	trans-1,3-Dichloropropene	61	U
75-25-2	Bromoform	61	U
108-10-1	4-Methyl-2-pentanone	300	U
591-78-6	2-Hexanone	300	U
127-18-4	Tetrachloroethene	61	U
79-34-5	1,1,2,2-Tetrachloroethane	61	U

AECOM049 S123

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3486.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	61	U
108-88-3	Toluene	3000 ~~14000~~	~~E~~
108-90-7	Chlorobenzene	61	U
100-41-4	Ethylbenzene	9400 ~~16000~~	~~E~~
100-42-5	Styrene	660	

AECOM049 S124

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3486.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	17000 ~~14000~~	~~E~~
95-47-6	o-Xylene	9300 ~~11000~~	~~E~~
106-93-4	1,2-Dibromoethane	61	U
98-82-8	Isopropylbenzene	460	
541-73-1	1,3-Dichlorobenzene	61	U
106-46-7	1,4-Dichlorobenzene	61	U
95-50-1	1,2-Dichlorobenzene	61	U
96-12-8	1,2-Dibromo-3-chloropropane	61	U
120-82-1	1,2,4-Trichlorobenzene	61	U

AECOM049 S125

1F

EPA SAMPLE NO.

SB-5 (28'-30')

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3486.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 9 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene (7.83)	7.83	19000	J
2.		c3 substituted benzene (8.06)	8.06	14000	J
3.		c3 substituted benzene (8.11)	8.11	13000	J
4.		c3 substituted benzene (8.29)	8.29	8000	J
5.		c3 substituted benzene (8.39)	8.39	11000	J
6.		c3 substituted benzene (8.51)	8.51	8600	J
7.		c3 substituted benzene (8.53)	8.53	16000	J
8.		c4 substituted benzene (9.07)	9.07	11000	J
9.		c4 substituted benzene (9.12)	9.12	10000	J

AECOM049 S126

1F

EPA SAMPLE NO.

SB-5 (28'-30')DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66791.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

Number TICs found: 8 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (15.52)	15.52	38000	JD
2.	c3-subs_benzene (15.62)	15.62	32000	JD
3.	c3-subs_benzene (16.15)	16.15	21000	JD
4.	c3-subs_benzene (16.49)	16.49	23000	JD
5.	c3-subs_benzene (16.82)	16.82	150000	JD
6.	c4-subs_benzene (18.57)	18.57	63000	JD
7.	c4-subs_benzene (18.76)	18.76	61000	JD
8. 000090-12-0	Naphthalene, 1-methyl-	22.28	54000	JND

AECOM049 S130

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66791.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	1500	U
75-71-8	Dichlorodifluoromethane	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene chloride	1500	U
67-64-1	Acetone	7600	U
75-69-4	Trichlorofluoromethane	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-15-0	Carbon disulfide	1500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1500	U
75-34-3	1,1-Dichloroethane	1500	U
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
79-20-9	Methyl Acetate	1500	U
78-93-3	2-Butanone	840	DJ
71-55-6	1,1,1-Trichloroethane	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
56-23-5	Carbon tetrachloride	1500	U
1634-04-4	Methyl tert-butyl ether	1500	U
75-27-4	Bromodichloromethane	1500	U
78-87-5	1,2-Dichloropropane	1500	U
156-59-2	cis-1,2-Dichloroethene	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
79-01-6	Trichloroethene	1500	U
124-48-1	Dibromochloromethane	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
71-43-2	Benzene	1500	U
110-82-7	Cyclohexane	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	7600	U
591-78-6	2-Hexanone	7600	U
127-18-4	Tetrachloroethene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U

D.O.

AECOM049 S127

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66791.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1500	U
108-88-3	Toluene	3000	D ✓ repeat
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	9400	D ✓ repeat
100-42-5	Styrene	1500	U

AECOM049 S128

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66791.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 17.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	17000	D ✓
95-47-6	o-Xylene	9300	D ✓
106-93-4	1,2-Dibromoethane	1500	U
98-82-8	Isopropylbenzene	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
96-12-8	1,2-Dibromo-3-chloropropane	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U

report
report

AECOM049 S129

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3483.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 31.1 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	21	~~B~~ U
67-64-1	Acetone	36	U
75-69-4	Trichlorofluoromethane	7	U J
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	36	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	4	J
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	36	U
591-78-6	2-Hexanone	36	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM049 S131

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3483.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 31.1 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U

AECOM049 S132

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3483.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 31.1 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	3	J
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM049 S133

1F

EPA SAMPLE NO.

SB-5 (52'-54')

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3483.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 31.1 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	1.47	8	J
2. 000090-12-0	Naphthalene, 1-methyl-	10.17	20	JN

AECOM049 S134

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3484.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 29.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	20	~~B~~ U
67-64-1	Acetone	~~28~~ 35	~~J~~ U
75-69-4	Trichlorofluoromethane	7	U J
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	35	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	35	U
591-78-6	2-Hexanone	35	U
127-18-4	Tetrachloroethene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM049 S135

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3484.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 29.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	16	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	13	
100-42-5	Styrene	7	U

AECOM049 S136

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3484.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 29.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	27	
95-47-6	o-Xylene	33	
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	3	J
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	2	J
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM049 S137

1F

EPA SAMPLE NO.

SB-8 (2'-3')

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3484.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 29.3 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene (7.82)	7.82	46	J
2.		c3 substituted benzene (7.85)	7.85	33	J
3.		c3 substituted benzene (7.97)	7.97	27	J
4.		c3 substituted benzene (8.06)	8.06	25	J
5.		c4 substituted benzene (8.37)	8.37	33	J
6.		c4 substituted benzene (8.4)	8.40	41	J
7.		c4 substituted benzene (8.58)	8.58	25	J
8.		c4 substituted benzene (8.79)	8.79	50	J
9.		c4 substituted benzene (9)	9.00	31	J

AECOM049 S138

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB093009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910781-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66811.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	2	J
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 S139

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB093009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910781-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66811.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 S140

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB093009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910781-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66811.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM049 S141

1F

EPA SAMPLE NO.

TB093009

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910781-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66811.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S142

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66813.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	4	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 S143

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66813.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 S144

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66813.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM049 S145

1F

EPA SAMPLE NO.

RB100509

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66813.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S146

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3576.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 17.8 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	17	~~B~~ UJ
67-64-1	Acetone	86	J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	22	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	8	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	2	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM049 S147

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3576.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 17.8 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	5	J
100-42-5	Styrene	6	U

AECOM049 S148

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3576.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 17.8 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	J
95-47-6	o-Xylene	5	J
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM049 S149

1F

EPA SAMPLE NO.

SB-7 (6'-8')

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3576.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 17.8 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 007785-70-8	1R-_alpha_-Pinene	7.47	91	JN
2.	c3 substituted benzene (7.81)	7.81	19	J
3.	c3 substituted benzene (8.06)	8.06	19	J
4.	c3 substituted benzene (8.38)	8.38	77	J
5.	benzothiophene isomer	9.44	27	J
6. 000090-12-0	Naphthalene, 1-methyl-	10.17	110	JN
7.	ethyl naphthalene isomer	10.74	17	J
8.	dimethyl naphthalene isomer	10.99	18	J

AECOM049 S150

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34548.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.22 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	360	U
100-52-7	Benzaldehyde	360	U J
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-chloropropane)	360	U
98-86-2	Acetophenone	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
92-52-4	1,1´-Biphenyl	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	84	J
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	360	U

AECOM049 S179

1D

EPA SAMPLE NO.

SS-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34548.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.22 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	650	
120-12-7	Anthracene	160	J
86-74-8	Carbazole	360	U
84-74-2	Di-n-butyl phthalate	360 ~~73~~	~~J~~ U
206-44-0	Fluoranthene	1600	J
129-00-0	Pyrene	1600	J
85-68-7	Butyl benzyl phthalate	320	J
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	1000	
218-01-9	Chrysene	920	
117-81-7	Bis(2-ethylhexyl)phthalate	440	J
117-84-0	Di-n-octyl phthalate	360	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	480	
50-32-8	Benzo(a)pyrene	990	
193-39-5	Indeno(1,2,3-cd)pyrene	510	
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	500	

(1) Cannot be separated from Diphenylamine

AECOM049 S180

1G

EPA SAMPLE NO.

SS-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34548.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.22 Decanted:(Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/09/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		unknown PNA (12.81)	12.81	210	J
2.		unknown PNA (14.15)	14.15	190	J
3.		unknown PNA (14.73)	14.73	150	J
4.		unknown (15.49)	15.49	210	J
5.		unknown PNA (15.8)	15.80	220	J
6.		unknown (16.44)	16.44	190	J
7.		unknown (16.7)	16.70	300	J
8.		unknown PNA (16.8)	16.80	240	J

AECOM049 S181

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1 SS-21

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34547.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	370	U
100-52-7	Benzaldehyde	370	U J
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1´-Biphenyl	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	370	U

AECOM049 S167

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34547.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	380	
120-12-7	Anthracene	100	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butyl phthalate	370	U
206-44-0	Fluoranthene	910	J
129-00-0	Pyrene	900	J
85-68-7	Butyl benzyl phthalate	820	J
91-94-1	3,3´-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	630	
218-01-9	Chrysene	580	
117-81-7	Bis(2-ethylhexyl)phthalate	1200	J
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	730	
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	620	
193-39-5	Indeno(1,2,3-cd)pyrene	370	
53-70-3	Dibenzo(a,h)anthracene	140	J
191-24-2	Benzo(g,h,i)perylene	380	

(1) Cannot be separated from Diphenylamine

AECOM049 S168

1G

EPA SAMPLE NO.

DUP-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34547.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 10.3 Decanted:(Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/09/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 5 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	(DEL) Alkane: Straight-Chain+unknow (1	15.61	170	J
2.	unknown PNA	15.81	150	J
3.	(DEL) Alkane: Straight-Chain	16.09	150	J
4.	unknown (16.45)	16.45	170	J
5.	(DEL) Alkane: Straight-Chain+unknow (1	16.66	190	J
6.	unknown (16.71)	16.71	240	J

AECOM049 S169

1C

EPA SAMPLE NO.

SS-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34412.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /4.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	U
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	220	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	96	J
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	370	J
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	190	J

AECOM049 S152

1D

EPA SAMPLE NO.

SS-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34412.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 4.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	320	J
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	3900	
120-12-7	Anthracene	820	
86-74-8	Carbazole	360	J
84-74-2	Di-n-butyl phthalate	390 ~~200~~	~~J~~ U
206-44-0	Fluoranthene	9400 ~~7200~~	~~E~~
129-00-0	Pyrene	8000 ~~7000~~	~~E~~
85-68-7	Butyl benzyl phthalate	2300	
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	3900	
218-01-9	Chrysene	3600	
117-81-7	Bis(2-ethylhexyl)phthalate	2700	J
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	5000	
207-08-9	Benzo(k)fluoranthene	1700	
50-32-8	Benzo(a)pyrene	3600	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	
53-70-3	Dibenzo(a,h)anthracene	370	J
191-24-2	Benzo(g,h,i)perylene	840	

(1) Cannot be separated from Diphenylamine

AECOM049 S153

1G

EPA SAMPLE NO.

SS-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34412.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted:(Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/02/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.32	5300	AJN
2.		substituted PNA (12.84)	12.84	370	J
3.		substituted PNA (12.87)	12.87	450	J
4.		substituted PNA (12.94)	12.94	190	J
5.		unknown PNA (12.97)	12.97	690	J
6.		substituted PNA (13.01)	13.01	350	J
7.	35465-71-5	2-Phenylnaphthalene	13.26	520	JN
8.		unknown PNA (14.28)	14.28	1500	J
9.		unknown PNA (14.34)	14.34	710	J
10.		substituted PNA (14.37)	14.37	570	J
11.		substituted PNA (14.73)	14.73	690	J
12.		benzonaphthothiophene isomer	14.82	750	J
13.		unknown PNA+unknown	14.86	1000	J
14.		substituted PNA (14.91)	14.91	470	J
15.		(DEL) Alkane: Straight-Chain+unknow	15.47	450	J
16.		unknown (16.6)	16.60	3800	J
17.		unknown (16.87)	16.87	3000	J
18.		unknown (17.23)	17.23	870	J
19.		unknown (17.27)	17.27	990	J
20.	83-46-5	_beta_-Sitosterol	17.45	570	JN

AECOM049 S154

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1500	U
100-52-7	Benzaldehyde	1500	U
108-95-2	Phenol	1500	U
111-44-4	Bis(2-chloroethyl)ether	1500	U
95-57-8	2-Chlorophenol	1500	U
95-48-7	2-Methylphenol	1500	U
108-60-1	2,2'-oxybis(1-chloropropane)	1500	U
98-86-2	Acetophenone	1500	U
621-64-7	N-Nitroso-di-n-propylamine	1500	U
67-72-1	Hexachloroethane	1500	U
98-95-3	Nitrobenzene	1500	U
78-59-1	Isophorone	1500	U
88-75-5	2-Nitrophenol	1500	U
105-67-9	2,4-Dimethylphenol	1500	U
111-91-1	Bis(2-chloroethoxy)methane	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
91-20-3	Naphthalene	1500	U
106-47-8	4-Chloroaniline	1500	U
87-68-3	Hexachlorobutadiene	1500	U
105-60-2	Caprolactam	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-57-6	2-Methylnaphthalene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	1500	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	1500	U
91-58-7	2-Chloronaphthalene	1500	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
208-96-8	Acenaphthylene	1500	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	450	DJ
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	1500	U

AECOM049 S155

1D

EPA SAMPLE NO.

SS-3DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1500	U
84-66-2	Diethylphthalate	1500	U
86-73-7	Fluorene	380	DJ
7005-72-3	4-Chlorophenyl-phenylether	1500	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine	1500	U
101-55-3	4-Bromophenyl-phenylether	1500	U
118-74-1	Hexachlorobenzene	1500	U
1912-24-9	Atrazine	1500	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	4800	D
120-12-7	Anthracene	1100	DJ
86-74-8	Carbazole	450	DJ
84-74-2	Di-n-butyl phthalate	1500	U
206-44-0	Fluoranthene	9400	D
129-00-0	Pyrene	8000	D
85-68-7	Butyl benzyl phthalate	2700	D
91-94-1	3,3´-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	5200	D
218-01-9	Chrysene	4700	D
117-81-7	Bis(2-ethylhexyl)phthalate	3400	D
117-84-0	Di-n-octyl phthalate	1500	U
205-99-2	Benzo(b)fluoranthene	5400	D
207-08-9	Benzo(k)fluoranthene	2900	D
50-32-8	Benzo(a)pyrene	4800	D
193-39-5	Indeno(1,2,3-cd)pyrene	1900	D
53-70-3	Dibenzo(a,h)anthracene	600	DJ
191-24-2	Benzo(g,h,i)perylene	1400	DJ

(1) Cannot be separated from Diphenylamine

AECOM049 S156

1G

EPA SAMPLE NO.

SS-3DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34470.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 14.6 Decanted:(Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/06/09

Injection Volume: 2 (µl) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.23	7000	AJND
2.	541-02-6	Cyclopentasiloxane, decamethyl-	5.24	720	JNDX
3.		unknown (12.84)	12.84	940	JD
4.	612-94-2	Naphthalene, 2-phenyl-+unknown	13.14	870	JND
5.		unknown (16.47)	16.47	1500	JD
6.		unknown (16.74)	16.74	1900	JD

AECOM049 B502

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34413.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	370	U
100-52-7	Benzaldehyde	370	U
108-95-2	Phenol	78	J
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	1400	
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	390	
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1´-Biphenyl	87	J
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	1700	
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	210	J
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	840	

AECOM049 S158

1D

EPA SAMPLE NO.

SS-4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34413.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /5.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	1800	
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	14000 ~~11000~~	~~E~~
120-12-7	Anthracene	2300	
86-74-8	Carbazole	690	
84-74-2	Di-n-butyl phthalate	370	U
206-44-0	Fluoranthene	21000 ~~14000~~	~~E~~
129-00-0	Pyrene	15000 ~~12000~~	~~E~~
85-68-7	Butyl benzyl phthalate	210	J
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	9000 ~~7400~~	~~E~~
218-01-9	Chrysene	5100	
117-81-7	Bis(2-ethylhexyl)phthalate	640	J
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	8900 ~~8100~~	~~E~~
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	5600	
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	530	
191-24-2	Benzo(g,h,i)perylene	1100	

(1) Cannot be separated from Diphenylamine

AECOM049 S159

1G

EPA SAMPLE NO.

SS-4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34413.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted:(Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/02/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 19 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.99	640	AJN
2.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.33	11000	AJN
3.	90-12-0	Naphthalene, 1-methyl-	7.35	360	JN
4.		dimethyl naphthalene isomer	8.47	260	J
5.	1689-64-1	9H-Fluoren-9-ol	10.48	330	JN
6.	132-65-0	Dibenzothiophene	11.75	400	JN
7.		substituted PNA (12.84)	12.84	640	J
8.		substituted PNA (12.88)	12.88	810	J
9.		substituted PNA (12.94)	12.94	300	J
10.		unknown PNA (12.98)	12.98	1500	J
11.		substituted PNA (13.02)	13.02	380	J
12.	35465-71-5	2-Phenylnaphthalene	13.26	900	JN
13.		unknown PNA (13.81)	13.81	950	J
14.		unknown PNA (14.28)	14.28	2200	J
15.		unknown PNA (14.35)	14.35	1300	J
16.		unknown PNA (14.85)	14.85	1000	J
17.		unknown PNA (15.48)	15.48	1000	J
18.		unknown PNA (15.93)	15.93	2700	J
19.		(DEL) Alkane: Straight-Chain	16.47	1800	J
20.		unknown PNA (17.21)	17.21	530	J

AECOM049 S160

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1800	U
100-52-7	Benzaldehyde	1800	U
108-95-2	Phenol	1800	U
111-44-4	Bis(2-chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-chloropropane)	1800	U
98-86-2	Acetophenone	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	Bis(2-chloroethoxy)methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
91-20-3	Naphthalene	1700	DJ
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
105-60-2	Caprolactam	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	490	DJ
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	1800	U
92-52-4	1,1'-Biphenyl	1800	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
208-96-8	Acenaphthylene	2100	D
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	1000	DJ

AECOM049 S161

1D

EPA SAMPLE NO.

SS-4DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
86-73-7	Fluorene	2200	D
7005-72-3	4-Chlorophenyl-phenylether	1800	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
1912-24-9	Atrazine	1800	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	14000	D
120-12-7	Anthracene	2900	D
86-74-8	Carbazole	870	DJ
84-74-2	Di-n-butyl phthalate	1800	U
206-44-0	Fluoranthene	21000	D
129-00-0	Pyrene	15000	D
85-68-7	Butyl benzyl phthalate	1800	U
91-94-1	3,3´-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	9000	D
218-01-9	Chrysene	7700	D
117-81-7	Bis(2-ethylhexyl)phthalate	650	DJ
117-84-0	Di-n-octyl phthalate	1800	U
205-99-2	Benzo(b)fluoranthene	8900	D
207-08-9	Benzo(k)fluoranthene	3900	D
50-32-8	Benzo(a)pyrene	7400	D
193-39-5	Indeno(1,2,3-cd)pyrene	2700	D
53-70-3	Dibenzo(a,h)anthracene	940	DJ
191-24-2	Benzo(g,h,i)perylene	1900	D

(1) Cannot be separated from Diphenylamine

AECOM049 S162

1G

EPA SAMPLE NO.

SS-4DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34471.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 9.93 Decanted:(Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/06/09

Injection Volume: 2 (µl) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 12 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.23	14000	AJND
2. 132-65-0	Dibenzothiophene	11.58	850	JND
3.	substituted PNA (12.7)	12.70	1200	JD
4.	substituted PNA (12.74)	12.74	1600	JD
5.	unknown PNA (12.84)	12.84	2900	JD
6.	substituted PNA (12.88)	12.88	850	JD
7. 35465-71-5	2-Phenylnaphthalene	13.14	1400	JND
8.	unknown PNA (14.17)	14.17	1400	JD
9.	unknown PNA (14.24)	14.24	930	JD
10.	unknown PNA (14.75)	14.75	850	JD
11.	unknown PNA (15.84)	15.84	2600	JD
12.	(DEL) Alkane: Straight-Chain+unknow	16.39	3000	JD

AECOM049 B563

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34414.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 8.44 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	360	U
100-52-7	Benzaldehyde	360	U
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2´-oxybis(1-chloropropane)	360	U
98-86-2	Acetophenone	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	96	J
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
92-52-4	1,1´-Biphenyl	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	130	J
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	200	J
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	110	J

AECOM049 S164

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34414.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 8.44 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	200	J
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	580	
86-74-8	Carbazole	290	J
84-74-2	Di-n-butyl phthalate	360 ~~110~~	~~J~~ U
206-44-0	Fluoranthene	4400	
129-00-0	Pyrene	4200	
85-68-7	Butyl benzyl phthalate	190	J
91-94-1	3,3´-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	2400	
218-01-9	Chrysene	2200	
117-81-7	Bis(2-ethylhexyl)phthalate	760	J
117-84-0	Di-n-octyl phthalate	140	J
205-99-2	Benzo(b)fluoranthene	3000	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	2200	
193-39-5	Indeno(1,2,3-cd)pyrene	770	
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(g,h,i)perylene	680	

(1) Cannot be separated from Diphenylamine

AECOM049 S165

1G

EPA SAMPLE NO.

SS-5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34414.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 8.44 Decanted:(Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/02/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	108-94-1	Cyclohexanone	3.66	810	JN
2.		(DEL) Alkane: Straight-Chain (8.17)	8.17	300	J
3.		unknown (8.93)	8.93	390	J
4.		(DEL) Alkane: Straight-Chain (9.2)	9.20	390	J
5.		(DEL) Alkane: Straight-Chain (10.2)	10.20	500	J
6.		(DEL) Alkane: Branched (11.19)	11.19	3300	J
7.		(DEL) Alkane: Branched+unknown	12.39	310	J
8.		(DEL) Alkane: Branched (12.71)	12.71	600	J
9.		(DEL) Alkane: Straight-Chain (12.78)	12.78	840	J
10.		substituted PNA	12.88	430	J
11.		unknown PNA (12.98)	12.98	340	J
12.		unknown (13.27)	13.27	510	J
13.		(DEL) Alkane: Straight-Chain (13.32)	13.32	630	J
14.		unknown PNA (14.28)	14.28	1100	J
15.		(DEL) Alkane: Straight-Chain (15.7)	15.70	320	J
16.		(DEL) Alkane: Straight-Chain (16.48)	16.48	520	J
17.		(DEL) Alkane: Straight-Chain (16.79)	16.79	440	J
18.		unknown (16.87)	16.87	340	J
19.		(DEL) Alkane: Straight-Chain+unknow	18.07	300	J

AECOM049 S166

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34549.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.88 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	370	U
100-52-7	Benzaldehyde	370	U J
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1´-Biphenyl	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	370	U

AECOM049 S170

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-3(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34549.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.88 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	460	
120-12-7	Anthracene	100	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butyl phthalate	370	U
206-44-0	Fluoranthene	800	
129-00-0	Pyrene	780	
85-68-7	Butyl benzyl phthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	470	
218-01-9	Chrysene	400	
117-81-7	Bis(2-ethylhexyl)phthalate	400 ~~84~~	~~J~~ U
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	420	
207-08-9	Benzo(k)fluoranthene	260	J
50-32-8	Benzo(a)pyrene	420	
193-39-5	Indeno(1,2,3-cd)pyrene	190	J
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	200	J

(1) Cannot be separated from Diphenylamine

AECOM049 S171

1G

EPA SAMPLE NO.

SB-3(4'-5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34549.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 9.88 Decanted:(Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/09/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	14.51	180	JN

AECOM049 S172

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34576.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 50

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	360	U
100-52-7	Benzaldehyde	360	U J
108-95-2	Phenol	360	U
111-44-4	Bis(2-chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-chloropropane)	360	U
98-86-2	Acetophenone	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	Bis(2-chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	45000 ~~31000~~	~~E~~
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	11000 ~~10000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
92-52-4	1,1'-Biphenyl	2500	
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	8400 ~~8300~~	~~E~~ J
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	5300	
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	15000 ~~14000~~	~~E~~ J

AECOM049 S173

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-17(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34576.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 50

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	26000 ~~24000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	120000 ~~78000~~	~~E~~
120-12-7	Anthracene	33000 ~~26000~~	~~E~~
86-74-8	Carbazole	15000 ~~14000~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	360	U
206-44-0	Fluoranthene	150000 ~~59000~~	~~E~~
129-00-0	Pyrene	120000 ~~91000~~	~~E~~
85-68-7	Butyl benzyl phthalate	550	
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	52000 ~~59000~~	~~E~~
218-01-9	Chrysene	49000 ~~16000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	420	J
117-84-0	Di-n-octyl phthalate	360	U J
205-99-2	Benzo(b)fluoranthene	46000 ~~35000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	16000 ~~11000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	36000 ~~27000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	17000 ~~7600~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	3000	J
191-24-2	Benzo(g,h,i)perylene	18000 ~~6700~~	~~E~~

(1) Cannot be separated from Diphenylamine

AECOM049 S174

1G

EPA SAMPLE NO.

SB-17(1'-2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34576.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted:(Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/12/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	95-13-6	C3 substituted benzene	4.58	1200	JN
2.		ethyl naphthalene isomer	8.01	640	J
3.		dimethyl naphthalene isomer (8.13)	8.13	1500	J
4.		dimethyl naphthalene isomer (8.28)	8.28	2600	J
5.		dimethyl naphthalene isomer (8.32)	8.32	1300	J
6.		dimethyl naphthalene isomer (8.49)	8.49	1400	J
7.		unknown (9.04)	9.04	980	J
8.		trimethyl naphthalene isomer (9.41)	9.41	530	J
9.		trimethyl naphthalene isomer (9.55)	9.55	600	J
10.		unknown PNA (9.75)	9.75	1200	J
11.		unknown PNA (10.07)	10.07	1000	J
12.		unknown PNA (10.15)	10.15	900	J
13.	1689-64-1	9H-Fluoren-9-ol	10.30	2400	JN
14.		unknown PNA (12.89)	12.89	23000	J
15.		substituted PNA (14.23)	14.23	16000	J
16.		unknown PNA (14.29)	14.29	12000	J
17.		unknown (14.32)	14.32	7300	J
18.		unknown PNA (14.78)	14.78	9500	J
19.		substituted PNA (15.29)	15.29	5500	J
20.		unknown PNA (15.87)	15.87	2900	J

AECOM049 S175

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34598.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	18000	U
100-52-7	Benzaldehyde	18000	U
108-95-2	Phenol	18000	U
111-44-4	Bis(2-chloroethyl)ether	18000	U
95-57-8	2-Chlorophenol	18000	U
95-48-7	2-Methylphenol	18000	U
108-60-1	2,2´-oxybis(1-chloropropane)	18000	U
98-86-2	Acetophenone	18000	U
621-64-7	N-Nitroso-di-n-propylamine	18000	U
67-72-1	Hexachloroethane	18000	U
98-95-3	Nitrobenzene	18000	U
78-59-1	Isophorone	18000	U
88-75-5	2-Nitrophenol	18000	U
105-67-9	2,4-Dimethylphenol	18000	U
111-91-1	Bis(2-chloroethoxy)methane	18000	U
120-83-2	2,4-Dichlorophenol	18000	U
91-20-3	Naphthalene	45000	D
106-47-8	4-Chloroaniline	18000	U
87-68-3	Hexachlorobutadiene	18000	U
105-60-2	Caprolactam	18000	U
59-50-7	4-Chloro-3-methylphenol	18000	U
91-57-6	2-Methylnaphthalene	11000	DJ
77-47-4	Hexachlorocyclopentadiene	18000	U
88-06-2	2,4,6-Trichlorophenol	18000	U
95-95-4	2,4,5-Trichlorophenol	18000	U
92-52-4	1,1´-Biphenyl	18000	U
91-58-7	2-Chloronaphthalene	18000	U
88-74-4	2-Nitroaniline	18000	U
131-11-3	Dimethylphthalate	18000	U
606-20-2	2,6-Dinitrotoluene	18000	U
208-96-8	Acenaphthylene	8400	DJ
99-09-2	3-Nitroaniline	18000	U
83-32-9	Acenaphthene	5700	DJ
51-28-5	2,4-Dinitrophenol	18000	U
100-02-7	4-Nitrophenol	18000	U
132-64-9	Dibenzofuran	15000	DJ

AECOM049 S176

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-17(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34598.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	18000	U
84-66-2	Diethylphthalate	18000	U
86-73-7	Fluorene	26000	D
7005-72-3	4-Chlorophenyl-phenylether	18000	U
100-01-6	4-Nitroaniline	18000	U
534-52-1	4,6-Dinitro-2-methylphenol	18000	U
86-30-6	N-Nitrosodiphenylamine	18000	U
101-55-3	4-Bromophenyl-phenylether	18000	U
118-74-1	Hexachlorobenzene	18000	U
1912-24-9	Atrazine	18000	U
87-86-5	Pentachlorophenol	18000	U
85-01-8	Phenanthrene	120000	D
120-12-7	Anthracene	33000	D
86-74-8	Carbazole	15000	DJ
84-74-2	Di-n-butyl phthalate	18000	U
206-44-0	Fluoranthene	150000	D
129-00-0	Pyrene	120000	D
85-68-7	Butyl benzyl phthalate	18000	U
91-94-1	3,3´-Dichlorobenzidine	18000	U
56-55-3	Benzo(a)anthracene	52000	D
218-01-9	Chrysene	49000	D
117-81-7	Bis(2-ethylhexyl)phthalate	18000	U
117-84-0	Di-n-octyl phthalate	18000	U
205-99-2	Benzo(b)fluoranthene	46000	D
207-08-9	Benzo(k)fluoranthene	16000	DJ
50-32-8	Benzo(a)pyrene	36000	D
193-39-5	Indeno(1,2,3-cd)pyrene	17000	DJ
53-70-3	Dibenzo(a,h)anthracene	5800	DJ
191-24-2	Benzo(g,h,i)perylene	18000	D

(1) Cannot be separated from Diphenylamine

AECOM049 S177

1G

EPA SAMPLE NO.

SB-17(1'-2')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34598.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 7.91 Decanted:(Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	90-12-0	Naphthalene, 1-methyl-	7.15	8700	JND
2.	132-65-0	Dibenzothiophene	11.53	8000	JND
3.		substituted PNA (12.66)	12.66	9800	JD
4.		substituted PNA (12.7)	12.70	13000	JD
5.		unknown PNA	12.80	26000	JD
6.		substituted PNA (12.85)	12.85	7200	JD
7.	35465-71-5	2-Phenylnaphthalene	13.11	9000	JND
8.		substituted PNA (14.14)	14.14	15000	JD
9.		substituted PNA (14.21)	14.21	11000	JD

AECOM049 B415

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5(16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34583.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /400

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	450	U
100-52-7	Benzaldehyde	450	U J
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2´-oxybis(1-chloropropane)	450	U
98-86-2	Acetophenone	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U J
78-59-1	Isophorone	450	U J
88-75-5	2-Nitrophenol	450	U J
105-67-9	2,4-Dimethylphenol	450	U J
111-91-1	Bis(2-chloroethoxy)methane	450	U J
120-83-2	2,4-Dichlorophenol	450	U J
91-20-3	Naphthalene	1600000 ~~620000~~	~~E~~
106-47-8	4-Chloroaniline	450	U J
87-68-3	Hexachlorobutadiene	450	U J
105-60-2	Caprolactam	450	U J
59-50-7	4-Chloro-3-methylphenol	450	U J
91-57-6	2-Methylnaphthalene	710000 ~~460000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	450	U
92-52-4	1,1´-Biphenyl	54000 ~~38000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	64000 ~~38000~~	~~E~~ J
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	230000 ~~100000~~	~~E~~
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	8800 ~~8800~~	~~E~~ J report

AECOM049 S182

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5(16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34583.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 400

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	130000 ~~75000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	410000 ~~200000~~	~~E~~
120-12-7	Anthracene	100000 ~~47000~~	~~E~~ J
86-74-8	Carbazole	3000	
84-74-2	Di-n-butyl phthalate	450	U
206-44-0	Fluoranthene	110000 ~~45000~~	~~E~~ J
129-00-0	Pyrene	170000 ~~150000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	450	U J
91-94-1	3,3´-Dichlorobenzidine	450	U J
56-55-3	Benzo(a)anthracene	63000 ~~52000~~	~~E~~
218-01-9	Chrysene	55000 ~~26000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	450	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	450	~~R~~ U
205-99-2	Benzo(b)fluoranthene	22000 ~~22000~~	~~E~~ J report
207-08-9	Benzo(k)fluoranthene	4200	J
50-32-8	Benzo(a)pyrene	25000 ~~25000~~	~~E~~ J report
193-39-5	Indeno(1,2,3-cd)pyrene	4600	J
53-70-3	Dibenzo(a,h)anthracene	2000	J
191-24-2	Benzo(g,h,i)perylene	5200	J

156

(1) Cannot be separated from Diphenylamine

AECOM049 S183

1G

EPA SAMPLE NO.

SB-5(16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34583.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 18 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		C3 substituted benzene (3.98)	3.98	20000	J
2.		C3 substituted benzene (4.2)	4.20	18000	J
3.		C3 substituted benzene (4.4)	4.40	9600	J
4.		C3 substituted benzene (4.62)	4.62	35000	J
5.		C4 substituted benzene (4.67)	4.67	3700	J
6.		C4 substituted benzene (5.03)	5.03	13000	J
7.		C4 substituted benzene (5.6)	5.60	86000	J
8.		substituted benzene	6.69	19000	J
9.	90-12-01	Naphthalene, 1-methyl-	7.45	78000	JN
10.		ethyl naphthalene isomer	8.16	50000	J
11.		dimethyl naphthalene isomer	8.31	44000	J
12.		unknown PNA (9.91)	9.91	33000	J
13.	132-65-0	Dibenzothiophene	11.70	29000	JN
14.		substituted PNA	12.85	40000	J
15.		dimethyl phenanthrene isomer	13.55	18000	J
16.		unknown PNA (13.8)	13.80	10000	J
17.		unknown PNA (14.27)	14.27	5600	J
18.		unknown PNA (16.15)	16.15	1400	J

AECOM049 S184

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34596.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	180000	U
100-52-7	Benzaldehyde	180000	U
108-95-2	Phenol	180000	U
111-44-4	Bis(2-chloroethyl)ether	180000	U
95-57-8	2-Chlorophenol	180000	U
95-48-7	2-Methylphenol	180000	U
108-60-1	2,2´-oxybis(1-chloropropane)	180000	U
98-86-2	Acetophenone	180000	U
621-64-7	N-Nitroso-di-n-propylamine	180000	U
67-72-1	Hexachloroethane	180000	U
98-95-3	Nitrobenzene	180000	U
78-59-1	Isophorone	180000	U
88-75-5	2-Nitrophenol	180000	U
105-67-9	2,4-Dimethylphenol	180000	U
111-91-1	Bis(2-chloroethoxy)methane	180000	U
120-83-2	2,4-Dichlorophenol	180000	U
91-20-3	Naphthalene	1600000	D
106-47-8	4-Chloroaniline	180000	U
87-68-3	Hexachlorobutadiene	180000	U
105-60-2	Caprolactam	180000	U
59-50-7	4-Chloro-3-methylphenol	180000	U
91-57-6	2-Methylnaphthalene	710000	D
77-47-4	Hexachlorocyclopentadiene	180000	U
88-06-2	2,4,6-Trichlorophenol	180000	U
95-95-4	2,4,5-Trichlorophenol	180000	U
92-52-4	1,1´-Biphenyl	54000	DJ
91-58-7	2-Chloronaphthalene	180000	U
88-74-4	2-Nitroaniline	180000	U
131-11-3	Dimethylphthalate	180000	U
606-20-2	2,6-Dinitrotoluene	180000	U
208-96-8	Acenaphthylene	64000	DJ
99-09-2	3-Nitroaniline	180000	U
83-32-9	Acenaphthene	220000	D
51-28-5	2,4-Dinitrophenol	180000	U
100-02-7	4-Nitrophenol	180000	U
132-64-9	Dibenzofuran	180000	U

D.D.

AECOM049 S185

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-5(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34596.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	180000	U
84-66-2	Diethylphthalate	180000	U
86-73-7	Fluorene	130000	DJ
7005-72-3	4-Chlorophenyl-phenylether	180000	U
100-01-6	4-Nitroaniline	180000	U
534-52-1	4,6-Dinitro-2-methylphenol	180000	U
86-30-6	N-Nitrosodiphenylamine	180000	U
101-55-3	4-Bromophenyl-phenylether	180000	U
118-74-1	Hexachlorobenzene	180000	U
1912-24-9	Atrazine	180000	U
87-86-5	Pentachlorophenol	180000	U
85-01-8	Phenanthrene	410000	D
120-12-7	Anthracene	100000	DJ
86-74-8	Carbazole	180000	U
84-74-2	Di-n-butyl phthalate	180000	U
206-44-0	Fluoranthene	110000	DJ
129-00-0	Pyrene	170000	DJ
85-68-7	Butyl benzyl phthalate	180000	U
91-94-1	3,3'-Dichlorobenzidine	180000	U
56-55-3	Benzo(a)anthracene	63000	DJ
218-01-9	Chrysene	55000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	180000	U
117-84-0	Di-n-octyl phthalate	180000	U
205-99-2	Benzo(b)fluoranthene	180000	U — B.D.
207-08-9	Benzo(k)fluoranthene	180000	U
50-32-8	Benzo(a)pyrene	180000	U — B.D.
193-39-5	Indeno(1,2,3-cd)pyrene	180000	U
53-70-3	Dibenzo(a,h)anthracene	180000	U
191-24-2	Benzo(g,h,i)perylene	180000	U

(1) Cannot be separated from Diphenylamine

AECOM049 S186

1G

EPA SAMPLE NO.

SB-5(16'-18')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34596.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 26.7 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 14 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		C3 substituted benzene (4.5)	4.50	87000	JD
2.		C3 substituted benzene (4.58)	4.58	150000	JD
3.		C4 substituted benzene (5.5)	5.50	84000	JD
4.		C4 substituted benzene (5.54)	5.54	91000	JD
5.	90-12-0	Naphthalene, 1-methyl-	7.15	520000	JND
6.		ethyl naphthalene isomer	8.00	110000	JD
7.		dimethyl naphthalene isomer (8.12)	8.12	150000	JD
8.		dimethyl naphthalene isomer (8.26)	8.26	170000	JD
9.		dimethyl naphthalene isomer (8.31)	8.31	91000	JD
10.		dimethyl naphthalene isomer (8.47)	8.47	87000	JD
11.		substituted PNA (12.66)	12.66	76000	JD
12.		substituted PNA (12.7)	12.70	80000	JD
13.		substituted PNA (12.81)	12.81	110000	JD
14.		substituted PNA (12.85)	12.85	84000	JD

AECOM049 B143

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5(28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34581.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	77000 ~~52000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	58000 ~~41000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	4500	
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	23000 ~~20000~~	~~E~~
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	3300	
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	1400	

AECOM049 S188

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-5(28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34581.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	14000 ~~13000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	46000 ~~37000~~	~~E~~
120-12-7	Anthracene	11000 ~~10000~~	~~E~~
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	13000 ~~11000~~	~~E~~
129-00-0	Pyrene	20000 ~~17000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	6300	
218-01-9	Chrysene	5700	
117-81-7	Bis(2-ethylhexyl)phthalate	400 ~~380~~	~~J~~ U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	3700	
207-08-9	Benzo(k)fluoranthene	1200	
50-32-8	Benzo(a)pyrene	4500	
193-39-5	Indeno(1,2,3-cd)pyrene	650	
53-70-3	Dibenzo(a,h)anthracene	290	J
191-24-2	Benzo(g,h,i)perylene	680	

(1) Cannot be separated from Diphenylamine

AECOM049 S189

1G

EPA SAMPLE NO.

SB-5(28'-30')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34581.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	C3 substituted benzene	4.59	7600	J
2.	ethyl naphthalene isomer	8.02	3200	J
3.	dimethyl naphthalene isomer (8.18)	8.18	10000	J
4.	dimethyl naphthalene isomer (8.32)	8.32	11000	J
5.	dimethyl naphthalene isomer (8.36)	8.36	5600	J
6.	unknown PNA (8.43)	8.43	4800	J
7.	dimethyl naphthalene isomer (8.52)	8.52	5700	J
8.	substituted naphthalene (9.14)	9.14	1500	J
9.	trimethyl naphthalene isomer (9.34)	9.34	1800	J
10.	trimethyl naphthalene isomer (9.42)	9.42	1800	J
11.	trimethyl naphthalene isomer+unknow (9	9.56	3600	J
12.	trimethyl naphthalene isomer (9.61)	9.61	1800	J
13.	trimethyl naphthalene isomer+unknow (9	9.71	1100	J
14.	unknown PNA (9.79)	9.79	4600	J
15.	unknown PNA (9.9)	9.90	3100	J
16.	substituted naphthalene (10.07)	10.07	1500	J
17.	unknown PNA (10.16)	10.16	2900	J
18.	unknown PNA (10.3)	10.30	2300	J
19.	unknown PNA (13.7)	13.70	5800	J
20.	unknown PNA (14.17)	14.17	6800	J

AECOM049 S190

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5(28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34597.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	8000	U
100-52-7	Benzaldehyde	8000	U
108-95-2	Phenol	8000	U
111-44-4	Bis(2-chloroethyl)ether	8000	U
95-57-8	2-Chlorophenol	8000	U
95-48-7	2-Methylphenol	8000	U
108-60-1	2,2´-oxybis(1-chloropropane)	8000	U
98-86-2	Acetophenone	8000	U
621-64-7	N-Nitroso-di-n-propylamine	8000	U
67-72-1	Hexachloroethane	8000	U
98-95-3	Nitrobenzene	8000	U
78-59-1	Isophorone	8000	U
88-75-5	2-Nitrophenol	8000	U
105-67-9	2,4-Dimethylphenol	8000	U
111-91-1	Bis(2-chloroethoxy)methane	8000	U
120-83-2	2,4-Dichlorophenol	8000	U
91-20-3	Naphthalene	97000	D
106-47-8	4-Chloroaniline	8000	U
87-68-3	Hexachlorobutadiene	8000	U
105-60-2	Caprolactam	8000	U
59-50-7	4-Chloro-3-methylphenol	8000	U
91-57-6	2-Methylnaphthalene	58000	D
77-47-4	Hexachlorocyclopentadiene	8000	U
88-06-2	2,4,6-Trichlorophenol	8000	U
95-95-4	2,4,5-Trichlorophenol	8000	U
92-52-4	1,1´-Biphenyl	5100	DJ
91-58-7	2-Chloronaphthalene	8000	U
88-74-4	2-Nitroaniline	8000	U
131-11-3	Dimethylphthalate	8000	U
606-20-2	2,6-Dinitrotoluene	8000	U
208-96-8	Acenaphthylene	23000	D
99-09-2	3-Nitroaniline	8000	U
83-32-9	Acenaphthene	3500	DJ
51-28-5	2,4-Dinitrophenol	8000	U
100-02-7	4-Nitrophenol	8000	U
132-64-9	Dibenzofuran	1700	DJ

AECOM049 S191

1D

EPA SAMPLE NO.

SB-5(28'-30')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34597.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	8000	U
84-66-2	Diethylphthalate	8000	U
86-73-7	Fluorene	14000	D
7005-72-3	4-Chlorophenyl-phenylether	8000	U
100-01-6	4-Nitroaniline	8000	U
534-52-1	4,6-Dinitro-2-methylphenol	8000	U
86-30-6	N-Nitrosodiphenylamine	8000	U
101-55-3	4-Bromophenyl-phenylether	8000	U
118-74-1	Hexachlorobenzene	8000	U
1912-24-9	Atrazine	8000	U
87-86-5	Pentachlorophenol	8000	U
85-01-8	Phenanthrene	46000	D
120-12-7	Anthracene	11000	D
86-74-8	Carbazole	8000	U
84-74-2	Di-n-butyl phthalate	8000	U
206-44-0	Fluoranthene	13000	D
129-00-0	Pyrene	20000	D
85-68-7	Butyl benzyl phthalate	8000	U
91-94-1	3,3´-Dichlorobenzidine	8000	U
56-55-3	Benzo(a)anthracene	7500	DJ
218-01-9	Chrysene	6500	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	8000	U
117-84-0	Di-n-octyl phthalate	8000	U
205-99-2	Benzo(b)fluoranthene	2800	DJ
207-08-9	Benzo(k)fluoranthene	8000	U
50-32-8	Benzo(a)pyrene	4800	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	8000	U
53-70-3	Dibenzo(a,h)anthracene	8000	U
191-24-2	Benzo(g,h,i)perylene	1800	DJ

(1) Cannot be separated from Diphenylamine

AECOM049 S192

1G

EPA SAMPLE NO.

SB-5(28'-30')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34597.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 17.5 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

Number TICs found: 20 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		C3 substituted benzene	4.58	7400	JD
2.		C4 substituted benzene (5.5)	5.50	5000	JD
3.		C4 substituted benzene (5.54)	5.54	5700	JD
4.	90-12-0	Naphthalene, 1-methyl-	7.16	40000	JND
5.		dimethyl naphthalene isomer (8.12)	8.12	13000	JD
6.		dimethyl naphthalene isomer (8.26)	8.26	15000	JD
7.		dimethyl naphthalene isomer (8.31)	8.31	7900	JD
8.		unknown PNA (8.38)	8.38	5800	JD
9.		dimethyl naphthalene isomer (8.47)	8.47	7900	JD
10.		unknown PNA (10.35)	10.35	4700	JD
11.		methyl-9H-fluorene isomer	11.02	4700	JD
12.	132-65-0	Dibenzothiophene	11.53	6500	JND
13.		substituted PNA (12.67)	12.67	8900	JD
14.		substituted PNA (12.71)	12.71	9500	JD
15.		substituted PNA (12.77)	12.77	4800	JD
16.		unknown PNA (12.81)	12.81	12000	JD
17.		substituted PNA (12.85)	12.85	8700	JD
18.	35465-71-5	2-Phenylnaphthalene	13.11	7300	JND
19.		unknown PNA (13.66)	13.66	4700	JD
20.		substituted PNA (14.14)	14.14	5500	JD

AECOM049 S193

1C

EPA SAMPLE NO.

SB-5(52'-54')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34568.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 31.1 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	480	U
100-52-7	Benzaldehyde	480	U J
108-95-2	Phenol	480	U
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2´-oxybis(1-chloropropane)	480	U
98-86-2	Acetophenone	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	480	U
92-52-4	1,1´-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	480	U
51-28-5	2,4-Dinitrophenol	480	U
100-02-7	4-Nitrophenol	480	U
132-64-9	Dibenzofuran	480	U

AECOM049 S194

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-5(52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34568.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 31.1 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	480	U
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butyl phthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butyl benzyl phthalate	480	U
91-94-1	3,3´-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	Bis(2-ethylhexyl)phthalate	480	U
117-84-0	Di-n-octyl phthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

(1) Cannot be separated from Diphenylamine

AECOM049 S195

1G

EPA SAMPLE NO.

SB-5(52'-54')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34568.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 31.1 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/12/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	14.51	240	JN

AECOM049 S196

1C

EPA SAMPLE NO.

SB-8(2'-3')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34582.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	470	U
100-52-7	Benzaldehyde	470	U J
108-95-2	Phenol	470	U
111-44-4	Bis(2-chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2´-oxybis(1-chloropropane)	470	U
98-86-2	Acetophenone	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	Bis(2-chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	930	
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	260	J
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	470	U
92-52-4	1,1´-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	470	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	470	U
99-09-2	3-Nitroaniline	470	U
83-32-9	Acenaphthene	440	J
51-28-5	2,4-Dinitrophenol	470	U
100-02-7	4-Nitrophenol	470	U
132-64-9	Dibenzofuran	390	J

AECOM049 S197

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34582.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	630	
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	470	U
534-52-1	4,6-Dinitro-2-methylphenol	470	U
86-30-6	N-Nitrosodiphenylamine	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	470	U
85-01-8	Phenanthrene	5000	
120-12-7	Anthracene	1300	
86-74-8	Carbazole	410	J
84-74-2	Di-n-butyl phthalate	410 ~~330~~	~~BJ~~ U
206-44-0	Fluoranthene	5700	
129-00-0	Pyrene	5500	
85-68-7	Butyl benzyl phthalate	5100	
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	2500	
218-01-9	Chrysene	2300	
117-81-7	Bis(2-ethylhexyl)phthalate	6100 ~~32000~~	~~E~~
117-84-0	Di-n-octyl phthalate	470	U
205-99-2	Benzo(b)fluoranthene	2400	
207-08-9	Benzo(k)fluoranthene	1100	
50-32-8	Benzo(a)pyrene	1900	
193-39-5	Indeno(1,2,3-cd)pyrene	540	
53-70-3	Dibenzo(a,h)anthracene	190	J
191-24-2	Benzo(g,h,i)perylene	480	

(1) Cannot be separated from Diphenylamine

AECOM049 S198

1G

EPA SAMPLE NO.

SB-8(2'-3')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34582.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 15 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trime	11.08	360	JN
2.		substituted PNA (12.67)	12.67	610	J
3.		substituted PNA (12.71)	12.71	650	J
4.		substituted PNA (12.78)	12.78	380	J
5.		unknown PNA (12.81)	12.81	970	J
6.		substituted PNA (12.86)	12.86	440	J
7.	35465-71-5	2-Phenylnaphthalene	13.11	520	JN
8.		unknown PNA (14.15)	14.15	2000	J
9.		unknown PNA (14.21)	14.21	1200	J
10.		unknown (15.1)	15.10	3100	J
11.		unknown phthalate (15.2)	15.20	2500	J
12.		unknown phthalate (15.24)	15.24	7100	J
13.		unknown phthalate (15.49)	15.49	510	J
14.		(DEL) Alkane: Straight-Chain (15.59)	15.59	460	J
15.		(DEL) Alkane: Straight-Chain (15.82)	15.82	550	J
16.		(DEL) Alkane: Straight-Chain (16.06)	16.06	390	J
17.		(DEL) Alkane: Straight-Chain (16.32)	16.32	810	J
18.		unknown (16.43)	16.43	580	J
19.		(DEL) Alkane: Straight-Chain (16.62)	16.62	510	J
20.		unknown (16.69)	16.69	530	J

AECOM049 S199

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-8(2'-3')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34599.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4700	U
100-52-7	Benzaldehyde	4700	U
108-95-2	Phenol	4700	U
111-44-4	Bis(2-chloroethyl)ether	4700	U
95-57-8	2-Chlorophenol	4700	U
95-48-7	2-Methylphenol	4700	U
108-60-1	2,2'-oxybis(1-chloropropane)	4700	U
98-86-2	Acetophenone	4700	U
621-64-7	N-Nitroso-di-n-propylamine	4700	U
67-72-1	Hexachloroethane	4700	U
98-95-3	Nitrobenzene	4700	U
78-59-1	Isophorone	4700	U
88-75-5	2-Nitrophenol	4700	U
105-67-9	2,4-Dimethylphenol	4700	U
111-91-1	Bis(2-chloroethoxy)methane	4700	U
120-83-2	2,4-Dichlorophenol	4700	U
91-20-3	Naphthalene	4700	U
106-47-8	4-Chloroaniline	4700	U
87-68-3	Hexachlorobutadiene	4700	U
105-60-2	Caprolactam	4700	U
59-50-7	4-Chloro-3-methylphenol	4700	U
91-57-6	2-Methylnaphthalene	4700	U
77-47-4	Hexachlorocyclopentadiene	4700	U
88-06-2	2,4,6-Trichlorophenol	4700	U
95-95-4	2,4,5-Trichlorophenol	4700	U
92-52-4	1,1'-Biphenyl	4700	U
91-58-7	2-Chloronaphthalene	4700	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	4700	U
606-20-2	2,6-Dinitrotoluene	4700	U
208-96-8	Acenaphthylene	4700	U
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	4700	U
51-28-5	2,4-Dinitrophenol	4700	U
100-02-7	4-Nitrophenol	4700	U
132-64-9	Dibenzofuran	4700	U

AECOM049 S200

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(2'-3')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34599.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4700	U
84-66-2	Diethylphthalate	4700	U
86-73-7	Fluorene	4700	U
7005-72-3	4-Chlorophenyl-phenylether	4700	U
100-01-6	4-Nitroaniline	4700	U
534-52-1	4,6-Dinitro-2-methylphenol	4700	U
86-30-6	N-Nitrosodiphenylamine	4700	U
101-55-3	4-Bromophenyl-phenylether	4700	U
118-74-1	Hexachlorobenzene	4700	U
1912-24-9	Atrazine	4700	U
87-86-5	Pentachlorophenol	4700	U
85-01-8	Phenanthrene	5100	D
120-12-7	Anthracene	1400	DJ
86-74-8	Carbazole	4700	U
84-74-2	Di-n-butyl phthalate	4700	U
206-44-0	Fluoranthene	6200	D
129-00-0	Pyrene	5200	D
85-68-7	Butyl benzyl phthalate	4900	D
91-94-1	3,3'-Dichlorobenzidine	4700	U
56-55-3	Benzo(a)anthracene	2800	DJ
218-01-9	Chrysene	2300	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	61000	D
117-84-0	Di-n-octyl phthalate	4700	U
205-99-2	Benzo(b)fluoranthene	2000	DJ
207-08-9	Benzo(k)fluoranthene	4700	U
50-32-8	Benzo(a)pyrene	1900	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	1000	DJ
53-70-3	Dibenzo(a,h)anthracene	4700	U
191-24-2	Benzo(g,h,i)perylene	1100	DJ

(1) Cannot be separated from Diphenylamine

AECOM049 S201

1G

EPA SAMPLE NO.

SB-8(2'-3')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34599.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 29.3 Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/13/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		unknown phthalate	15.24	3700	JD

AECOM049 B360

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34495.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/06/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/07/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM049 S203

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34495.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/06/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/07/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	1	J
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM049 S204

1G

EPA SAMPLE NO.

RB100509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34495.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: Decanted:(Y/N) N Date Extracted: 10/06/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 10/07/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 S205

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34685.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /20

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	93	J
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	210	J
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	24000 ~~20000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	7900 ~~7200~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1'-Biphenyl	1900	
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	2800	
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	8800 ~~8600~~	~~E~~
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	10000 ~~10000~~	~~E~~

AECOM049 S206

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34685.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	15000 ~~15000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	71000 ~~46000~~	~~E~~
120-12-7	Anthracene	18000 ~~14000~~	~~E~~
86-74-8	Carbazole	5900	
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	63000 ~~32000~~	~~E~~
129-00-0	Pyrene	39000 ~~31000~~	~~E~~
85-68-7	Butyl benzyl phthalate	7300 ~~9000~~	~~E~~ J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	19000 ~~17000~~	~~E~~
218-01-9	Chrysene	15000 ~~12000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	14000 ~~12000~~	~~E~~
117-84-0	Di-n-octyl phthalate	1300	J
205-99-2	Benzo(b)fluoranthene	13000 ~~13000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	5300	J
50-32-8	Benzo(a)pyrene	11000 ~~9300~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2600	J
53-70-3	Dibenzo(a,h)anthracene	1100	J
191-24-2	Benzo(g,h,i)perylene	1800	J

(1) Cannot be separated from Diphenylamine

AECOM049 S207

1G

EPA SAMPLE NO.

SB-7(6'-8')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34685.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted:(Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/17/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 17 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.80	4800	AJN
2.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.22	49000	AJN
3.	74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.36	2100	JN
4.		dimethyl naphthalene isomer (8)	8.00	1900	J
5.		dimethyl naphthalene isomer (8.14)	8.14	2200	J
6.		dimethyl naphthalene isomer (8.35)	8.35	1300	J
7.		substituted naphthalene+unknown	9.94	1200	J
8.	7320-53-8	Dibenzofuran, 4-methyl-	10.15	1600	JN
9.	132-65-0	Dibenzothiophene	11.42	3400	JN
10.		substituted PNA (12.59)	12.59	4000	J
11.		substituted PNA (12.64)	12.64	4600	J
12.		unknown PNA	12.75	11000	J
13.	35465-71-5	2-Phenylnaphthalene	13.04	3900	JN
14.		unknown (13.62)	13.62	15000	J
15.		substituted PNA (14.11)	14.11	13000	J
16.		(DEL) Alkane: Straight-Chain (15.53)	15.53	1600	J
17.		(DEL) Alkane: Straight-Chain (16.23)	16.23	2200	J
18.		unknown phthalate	16.33	1500	J
19.		(DEL) Alkane: Straight-Chain (16.52)	16.52	1600	J
20.		unknown (16.58)	16.58	1400	J

AECOM049 S208

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(6'-8')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34726.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	8000	U
100-52-7	Benzaldehyde	8000	U
108-95-2	Phenol	8000	U
111-44-4	Bis(2-chloroethyl)ether	8000	U
95-57-8	2-Chlorophenol	8000	U
95-48-7	2-Methylphenol	8000	U
108-60-1	2,2'-oxybis(1-chloropropane)	8000	U
98-86-2	Acetophenone	8000	U
621-64-7	N-Nitroso-di-n-propylamine	8000	U
67-72-1	Hexachloroethane	8000	U
98-95-3	Nitrobenzene	8000	U
78-59-1	Isophorone	8000	U
88-75-5	2-Nitrophenol	8000	U
105-67-9	2,4-Dimethylphenol	8000	U
111-91-1	Bis(2-chloroethoxy)methane	8000	U
120-83-2	2,4-Dichlorophenol	8000	U
91-20-3	Naphthalene	24000	D
106-47-8	4-Chloroaniline	8000	U
87-68-3	Hexachlorobutadiene	8000	U
105-60-2	Caprolactam	8000	U
59-50-7	4-Chloro-3-methylphenol	8000	U
91-57-6	2-Methylnaphthalene	7900	DJ
77-47-4	Hexachlorocyclopentadiene	8000	U
88-06-2	2,4,6-Trichlorophenol	8000	U
95-95-4	2,4,5-Trichlorophenol	8000	U
92-52-4	1,1'-Biphenyl	2000	DJ
91-58-7	2-Chloronaphthalene	8000	U
88-74-4	2-Nitroaniline	8000	U
131-11-3	Dimethylphthalate	8000	U
606-20-2	2,6-Dinitrotoluene	8000	U
208-96-8	Acenaphthylene	3000	DJ
99-09-2	3-Nitroaniline	8000	U
83-32-9	Acenaphthene	8800	D
51-28-5	2,4-Dinitrophenol	8000	U
100-02-7	4-Nitrophenol	8000	U
132-64-9	Dibenzofuran	10000	D

AECOM049 S209

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-7(6'-8')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34726.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	8000	U
84-66-2	Diethylphthalate	8000	U
86-73-7	Fluorene	15000	D
7005-72-3	4-Chlorophenyl-phenylether	8000	U
100-01-6	4-Nitroaniline	8000	U
534-52-1	4,6-Dinitro-2-methylphenol	8000	U
86-30-6	N-Nitrosodiphenylamine	8000	U
101-55-3	4-Bromophenyl-phenylether	8000	U
118-74-1	Hexachlorobenzene	8000	U
1912-24-9	Atrazine	8000	U
87-86-5	Pentachlorophenol	8000	U
85-01-8	Phenanthrene	71000	D
120-12-7	Anthracene	18000	D
86-74-8	Carbazole	6600	DJ
84-74-2	Di-n-butyl phthalate	8000	U
206-44-0	Fluoranthene	63000	D
129-00-0	Pyrene	39000	D
85-68-7	Butyl benzyl phthalate	7300	DJ
91-94-1	3,3'-Dichlorobenzidine	8000	U
56-55-3	Benzo(a)anthracene	19000	D
218-01-9	Chrysene	15000	D
117-81-7	Bis(2-ethylhexyl)phthalate	14000	D
117-84-0	Di-n-octyl phthalate	8000	U
205-99-2	Benzo(b)fluoranthene	13000	D
207-08-9	Benzo(k)fluoranthene	6000	DJ
50-32-8	Benzo(a)pyrene	11000	D
193-39-5	Indeno(1,2,3-cd)pyrene	4800	DJ
53-70-3	Dibenzo(a,h)anthracene	1700	DJ
191-24-2	Benzo(g,h,i)perylene	4200	DJ

(1) Cannot be separated from Diphenylamine

AECOM049 S210

1G

EPA SAMPLE NO.

SB-7(6'-8')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34726.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 17.8 Decanted:(Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/19/09

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 12 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.75	5500	JNDA
2.	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.10	78000	JNDA
3.	90-12-0	Naphthalene, 1-methyl-	6.95	6000	JND
4.	132-65-0	Dibenzothiophene	11.30	5000	JND
5.		substituted PNA (12.49)	12.49	5400	JD
6.		substituted PNA (12.53)	12.53	5800	JD
7.		substituted PNA (12.6)	12.60	3900	JD
8.		unknown PNA	12.63	8900	JD
9.		substituted PNA (12.68)	12.68	4500	JD
10.	35465-71-5	2-Phenylnaphthalene	12.95	5400	JND
11.		unknown	13.53	7100	JD
12.		substituted PNA (14.01)	14.01	5000	JD

10/26/09

AECOM049 S211

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00146.raw

% Moisture: 14.6 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	~~1.1~~ 2.0	~~PJ~~ U
1024-57-3	Heptachlor epoxide	4.0	
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	~~2.0~~ 3.9	~~PJ~~ U
72-55-9	4,4'-DDE	12	~~P~~ NJ
72-20-8	Endrin	~~2.7~~ 3.9	~~PJ~~ U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	25	~~P~~ NJ
1031-07-8	Endosulfan sulfate	~~2.1~~ 3.9	~~PJ~~ U
50-29-3	4,4'-DDT	31	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	6.9	
7421-93-4	Endrin aldehyde	5.2	~~P~~ J
5103-71-9	alpha-Chlordane	16	P
5103-74-2	gamma-Chlordane	17	
8001-35-2	Toxaphene	200	U

AECOM049 PE28

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00148.raw

% Moisture: 9.93 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 09/30/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	4.8	
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	2.1	~~P~~
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	4.1	~~P~~ NJ
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	8.4	~~P~~ J
72-55-9	4,4'-DDE	18	~~P~~
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	9.0	~~P~~ J
50-29-3	4,4'-DDT	31	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	7.2	~~P~~
7421-93-4	Endrin aldehyde	3.7	U
~~5103-71-9~~	~~alpha-Chlordane~~	~~30~~	~~EP~~
~~5103-74-2~~	~~gamma-Chlordane~~	~~31~~	~~EP~~
8001-35-2	Toxaphene	190	U

Do not report alpha or gamma chlordane from this run. WB 3/6/10

AECOM049 PE39

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00024.raw

% Moisture: 9.93 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~319-84-6~~	~~alpha-BHC~~	~~9.4~~	~~U~~
319-85-7	beta-BHC	9.4	U
319-86-8	delta-BHC	5.3	DPJ
58-89-9	gamma-BHC	9.4	U
76-44-8	Heptachlor	9.4	U
309-00-2	Aldrin	9.4	U
1024-57-3	Heptachlor epoxide	5.8	DPJ
959-98-8	Endosulfan I	9.4	U
60-57-1	Dieldrin	12	DJ
72-55-9	4,4´-DDE	16	DPJ
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4´-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4´-DDT	32	D
72-43-5	Methoxychlor	94	U
53494-70-5	Endrin ketone	18	U
~~7421-93-4~~	~~Endrin aldehyde~~	~~18~~	~~U~~
5103-71-9	alpha-Chlordane	37	P
5103-74-2	gamma-Chlordane	38	P
~~8001-35-2~~	~~Toxaphene~~	~~940~~	~~U~~

Report only alpha and gamma-chlordane from this run. WB 3/16/10

AECOM049 PE50

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00029.raw

% Moisture: 8.44 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	~~1.5~~ 1.9	~~PJ~~ U
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	1.7	J
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	3.9	
959-98-8	Endosulfan I	~~1.6~~ 1.9	~~PJ~~ U
60-57-1	Dieldrin	7.1	~~P~~ J
72-55-9	4,4'-DDE	22	~~P~~ NJ
72-20-8	Endrin	3.9	~~PJ~~ NJ
33213-65-9	Endosulfan II	~~2.2~~ 3.8	~~PJ~~ U
72-54-8	4,4'-DDD	8.5	~~P~~ NJ
1031-07-8	Endosulfan sulfate	7.8	~~P~~ NJ
50-29-3	4,4'-DDT	55	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	28	~~P~~
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	28	
5103-74-2	gamma-Chlordane	29	~~P~~
8001-35-2	Toxaphene	190	U

AECOM049 PE59 Revised CLG 27-Jan-10

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00031.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	~~1.5~~ 1.9	~~P~~ U
1024-57-3	Heptachlor epoxide	3.0	~~P~~
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	6.1	~~P~~
72-55-9	4,4'-DDE	~~2.9~~ 3.7	~~P~~ U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	~~2.6~~ 3.7	~~P~~ U
50-29-3	4,4'-DDT	24	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	7.1	
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	7.9	
5103-74-2	gamma-Chlordane	10	
8001-35-2	Toxaphene	190	U

AECOM049 PE70

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00033.raw

% Moisture: 9.88 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	3.7	U
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

AECOM049 PE81

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00041.raw

% Moisture: 7.91 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	2.7	~~P~~ NJ
58-89-9	gamma-BHC	~~1.6~~ 1.8	~~PJ~~ U
76-44-8	Heptachlor	3.6	~~P~~ NJ
309-00-2	Aldrin	18	~~P~~ NJ
~~1024-57-3~~	~~Heptachlor epoxide~~	~~38~~	~~EP~~
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	29	~~P~~ NJ
~~72-55-9~~	~~4,4'-DDE~~	~~28~~	~~P~~
~~72-20-8~~	~~Endrin~~	~~76~~	~~EP~~
~~33213-65-9~~	~~Endosulfan II~~	~~32~~	~~P~~
~~72-54-8~~	~~4,4'-DDD~~	~~47~~	~~P~~
~~1031-07-8~~	~~Endosulfan sulfate~~	~~29~~	~~P~~
~~50-29-3~~	~~4,4'-DDT~~	~~58~~	~~EP~~
72-43-5	Methoxychlor	180	~~P~~ J
53494-70-5	Endrin ketone	29	~~P~~ NJ
~~7421-93-4~~	~~Endrin aldehyde~~	~~110~~	~~EP~~
5103-71-9	alpha-Chlordane	15	~~P~~ NJ
~~5103-74-2~~	~~gamma-Chlordane~~	~~20~~	~~P~~
8001-35-2	Toxaphene	180	U

Do not report results from this run for compounds that have been crossed out. Use diluted run

AECOM049 PE92

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00130.raw

% Moisture: 7.91 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/13/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~319-84-6~~	~~alpha-BHC~~	~~9.2~~	~~U~~
~~319-85-7~~	~~beta-BHC~~	~~9.2~~	~~U~~
~~319-86-8~~	~~delta-BHC~~	~~9.2~~	~~U~~
~~58-89-9~~	~~gamma-BHC~~	~~9.2~~	~~U~~
~~76-44-8~~	~~Heptachlor~~	~~9.2~~	~~U~~
~~309-00-2~~	~~Aldrin~~	~~9.2~~	~~U~~
1024-57-3	Heptachlor epoxide	9.7	~~DP~~ NJ
~~959-98-8~~	~~Endosulfan I~~	~~9.2~~	~~U~~
~~60-57-1~~	~~Dieldrin~~	~~26~~	~~DP~~
72-55-9	4,4'-DDE	47	~~DP~~ J
72-20-8	Endrin	12	~~DJ~~ J
33213-65-9	Endosulfan II	14	~~DP~~ NJ
72-54-8	4,4'-DDD	11	~~DP~~ NJ
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	110	~~DP~~ J
~~72-43-5~~	~~Methoxychlor~~	~~92~~	~~U~~
~~53494-70-5~~	~~Endrin ketone~~	~~19~~	~~DP~~
7421-93-4	Endrin aldehyde	20	~~DP~~ NJ
~~5103-71-9~~	~~alpha-Chlordane~~	~~9.2~~	~~U~~
5103-74-2	gamma-Chlordane	32	~~P~~
~~8001-35-2~~	~~Toxaphene~~	~~920~~	~~U~~

Do not report results from this run for compounds that have been crossed off. Use undiluted run

WB

3/16/10

AECOM049 PE102 Revised CLG 27-Jan-10

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00039.raw

% Moisture: 9.22 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	1.4	J
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	2.2	
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.1	~~P~~ J
72-55-9	4,4'-DDE	3.6	P NJ
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	~~1.9~~ 3.6	~~P~~ U
50-29-3	4,4'-DDT	19	
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	4.6	
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	9.9	P
5103-74-2	gamma-Chlordane	11	
8001-35-2	Toxaphene	190	U

AECOM049 PE113

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00113.raw

% Moisture: 26.7 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.1	~~PJ~~ J
58-89-9	gamma-BHC	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	3.8	~~P~~ NJ
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.8	~~P~~ NJ
~~72-55-9~~	~~4,4'-DDE~~	~~16~~	~~P~~
72-20-8	Endrin	10	~~P~~ NJ
~~33213-65-9~~	~~Endosulfan II~~	~~78~~	~~EP~~
~~72-54-8~~	~~4,4'-DDD~~	~~7.4~~	~~P~~
~~1031-07-8~~	~~Endosulfan sulfate~~	~~140~~	~~EP~~
~~50-29-3~~	~~4,4'-DDT~~	~~310~~	~~EP~~
72-43-5	Methoxychlor	90	~~P~~ NJ
~~53494-70-5~~	~~Endrin ketone~~	~~87~~	~~EP~~
7421-93-4	Endrin aldehyde	7.4	~~P~~ NJ
5103-71-9	alpha-Chlordane	20	~~P~~ NJ
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U

AECOM049 PE123

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00138.raw

% Moisture: 26.7 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/13/09

Injection Volume: 0.5 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	23	U
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	U
58-89-9	gamma-BHC	23	U
76-44-8	Heptachlor	23	U
309-00-2	Aldrin	23	U
1024-57-3	Heptachlor epoxide	14	DPJ
959-98-8	Endosulfan I	23	U
60-57-1	Dieldrin	45	U
72-55-9	4,4'-DDE	56	DP
72-20-8	Endrin	45	U
33213-65-9	Endosulfan II	87	DP J
72-54-8	4,4'-DDD	110	D
1031-07-8	Endosulfan sulfate	270	DP NJ
50-29-3	4,4'-DDT	590	DP
72-43-5	Methoxychlor	230	U
53494-70-5	Endrin ketone	130	DP J
7421-93-4	Endrin aldehyde	29	DPJ
5103-71-9	alpha-Chlordane	23	U
5103-74-2	gamma-Chlordane	23	U
8001-35-2	Toxaphene	2300	U

AECOM049 PE134

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00111.raw

% Moisture: 17.5 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC	1.6	~~J~~
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.4	
60-57-1	Dieldrin	4.0	U
~~72-55-9~~	~~4,4'-DDE~~	~~2.3~~	~~PJ~~
72-20-8	Endrin	3.5	~~J~~
33213-65-9	Endosulfan II	39	~~J~~
72-54-8	4,4'-DDD	16	
~~1031-07-8~~	~~Endosulfan sulfate~~	~~140~~	~~EP~~
~~50-29-3~~	~~4,4'-DDT~~	~~150~~	~~EP~~
72-43-5	Methoxychlor	50	~~J~~
~~53494-70-5~~	~~Endrin ketone~~	~~68~~	~~EP~~
7421-93-4	Endrin aldehyde	~~2.5~~ 4.0	~~PJ~~ U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.7	~~P~~ NJ
8001-35-2	Toxaphene	210	U

Do not report results from this run for DDE, DDT, endosulfan sulfate, or endrin ketone. Use diluted run.

WB

3/16/10

AECOM049 PE145

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00134.raw

% Moisture: 17.5 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/13/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	10	U
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	20	U
72-55-9	4,4'-DDE	14	DPJ J
72-20-8	Endrin	20	U
33213-65-9	Endosulfan II	46	DP
72-54-8	4,4'-DDD	21	D
1031-07-8	Endosulfan sulfate	160	D
50-29-3	4,4'-DDT	220	D
72-43-5	Methoxychlor	61	DPJ
53494-70-5	Endrin ketone	81	D
7421-93-4	Endrin aldehyde	20	U
5103-71-9	alpha-Chlordane	10	U
5103-74-2	gamma-Chlordane	10	U
8001-35-2	Toxaphene	1000	U

Report results only for DDE, DDT, endosulfan sulfate, and endrin ketone from this run. Use undiluted runs for all other compounds.

WB
3/16/10

AECOM049 PE156

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00102.raw

% Moisture: 31.1 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.8	U
72-55-9	4,4'-DDE	4.8	U
72-20-8	Endrin	4.8	U
33213-65-9	Endosulfan II	4.8	U
72-54-8	4,4'-DDD	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
50-29-3	4,4'-DDT	4.8	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.8	U
7421-93-4	Endrin aldehyde	4.8	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	2.5	U
8001-35-2	Toxaphene	250	U

AECOM049 PE167

1E

EPA SAMPLE NO.

SB-8 (2'-3')

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00109.raw

% Moisture: 29.3 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	~~1.7~~ 2.4	~~PJ~~ U
319-86-8	delta-BHC	~~1.9~~ 2.4	~~PJ~~ U
58-89-9	gamma-BHC	2.4	U
76-44-8	Heptachlor	~~1.9~~ 2.4	~~PJ~~ U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.7	U
72-55-9	4,4'-DDE	7.3	~~P~~ NJ
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	14	P
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	7.6	
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	5.7	P J
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	3.8	P J
5103-74-2	gamma-Chlordane	7.1	P
8001-35-2	Toxaphene	240	U

AECOM049 PE174

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00159.raw

% Moisture: 17.8 Decanted: (Y/N) N Date Received: 10/07/09

Extraction: (Type) PFEX Date Extracted: 10/14/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/19/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	3.7	~~P~~ NJ
959-98-8	Endosulfan I	1.8	J
60-57-1	Dieldrin	19	~~P~~ J
72-55-9	4,4'-DDE	34	~~P~~ J
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	7.2	~~P~~ NJ
72-54-8	4,4'-DDD	24	~~P~~ NJ
1031-07-8	Endosulfan sulfate	16	~~P~~ NJ
50-29-3	4,4'-DDT	59	~~P~~
72-43-5	Methoxychlor	120	~~P~~ NJ
53494-70-5	Endrin ketone	18	J
7421-93-4	Endrin aldehyde	5.1	~~P~~ NJ
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

AECOM049 PE185

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00097.raw

% Moisture: Decanted: (Y/N) N Date Received: 10/05/09

Extraction: (Type) SEPF Date Extracted: 10/08/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

AECOM049 PE196

1E

EPA SAMPLE NO.

DUP-1

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00368.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	75	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	130	J
11096-82-5	Aroclor 1260	59	
37324-23-5	Aroclor 1262	37	U~~J~~
11100-14-4	Aroclor 1268	37	U

AECOM049 P21

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00068.raw

% Moisture: Decanted: (Y/N) N Date Received: 10/05/09

Extraction: (Type) SEPF Date Extracted: 10/08/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/13/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00369.raw

% Moisture: 9.88 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	74	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	37	U
11096-82-5	Aroclor 1260	37	U
37324-23-5	Aroclor 1262	37	U
11100-14-4	Aroclor 1268	37	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00003.raw

% Moisture: 26.7 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/09/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	45	U
11104-28-2	Aroclor 1221	91	U
11141-16-5	Aroclor 1232	45	U
53469-21-9	Aroclor 1242	45	U
12672-29-6	Aroclor 1248	45	U
11097-69-1	Aroclor 1254	45	U
11096-82-5	Aroclor 1260	45	U
37324-23-5	Aroclor 1262	45	U
11100-14-4	Aroclor 1268	45	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00005.raw

% Moisture: 17.5 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/09/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U
11104-28-2	Aroclor 1221	81	U
11141-16-5	Aroclor 1232	40	U
53469-21-9	Aroclor 1242	40	U
12672-29-6	Aroclor 1248	40	U
11097-69-1	Aroclor 1254	40	U
11096-82-5	Aroclor 1260	40	U
37324-23-5	Aroclor 1262	40	U
11100-14-4	Aroclor 1268	40	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00007.raw

% Moisture: 31.1 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/09/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	48	U
11104-28-2	Aroclor 1221	97	U
11141-16-5	Aroclor 1232	48	U
53469-21-9	Aroclor 1242	48	U
12672-29-6	Aroclor 1248	48	U
11097-69-1	Aroclor 1254	48	U
11096-82-5	Aroclor 1260	48	U
37324-23-5	Aroclor 1262	48	U
11100-14-4	Aroclor 1268	48	U

AECOM049 P64

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00210.raw

% Moisture: 17.8 Decanted: (Y/N) N Date Received: 10/07/09

Extraction: (Type) PFEX Date Extracted: 10/14/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/19/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U~~X~~ J
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	40	U~~X~~ J
53469-21-9	Aroclor 1242	350	J
12672-29-6	Aroclor 1248	40	U~~X~~ J
~~11097-69-1~~	~~Aroclor 1254~~	~~790~~	~~E~~
11096-82-5	Aroclor 1260	300	
37324-23-5	Aroclor 1262	40	U~~X~~ J
11100-14-4	Aroclor 1268	40	U~~X~~ J

Do not report Aroclor 1254 from this run. Use diluted run

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00234.raw

% Moisture: 17.8 Decanted: (Y/N) N Date Received: 10/07/09

Extraction: (Type) PFEX Date Extracted: 10/14/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/20/09

Injection Volume: 0.5 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	80	UX
11104-28-2	Aroclor 1221	160	U
11141-16-5	Aroclor 1232	80	UX
53469-21-9	Aroclor 1242	300	D
12672-29-6	Aroclor 1248	80	UX
11097-69-1	Aroclor 1254	700	D J
11096-82-5	Aroclor 1260	250	D
37324-23-5	Aroclor 1262	80	UX
11100-14-4	Aroclor 1268	80	UX

Report only Aroclor 1254 from this run.

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00009.raw

% Moisture: 29.3 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/07/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/09/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	47	UX J
11104-28-2	Aroclor 1221	95	U
11141-16-5	Aroclor 1232	47	UX J
53469-21-9	Aroclor 1242	130	J
12672-29-6	Aroclor 1248	47	UX J
11097-69-1	Aroclor 1254	77	
11096-82-5	Aroclor 1260	25	J
37324-23-5	Aroclor 1262	47	UX J
11100-14-4	Aroclor 1268	47	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00370.raw

% Moisture: 7.91 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	36	UX J
11104-28-2	Aroclor 1221	73	U
11141-16-5	Aroclor 1232	36	UX J
53469-21-9	Aroclor 1242	36	UX J
12672-29-6	Aroclor 1248	36	UX J
~~11097-69-1~~	~~Aroclor 1254~~	~~4600~~	~~EP~~
~~11096-82-5~~	~~Aroclor 1260~~	~~620~~	~~E~~
37324-23-5	Aroclor 1262	36	UX J
11100-14-4	Aroclor 1268	36	UX J

Do not report Aroclor 1254 or 1260 from this run. Use diluted run.

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00261.raw

% Moisture: 7.91 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/22/09

Injection Volume: 0.5 (uL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~720~~	~~U~~
11104-28-2	Aroclor 1221	1500	U
11141-16-5	Aroclor 1232	720	U
53469-21-9	Aroclor 1242	720	U
~~12672-29-6~~	~~Aroclor 1248~~	~~720~~	~~U~~
11097-69-1	Aroclor 1254	5000	D J
11096-82-5	Aroclor 1260	720	D
~~37324-23-5~~	~~Aroclor 1262~~	~~720~~	~~UX~~
~~11100-14-4~~	~~Aroclor 1268~~	~~720~~	~~U~~

Report only Aroclor 1254 and 1260 from this run.

AECOM049 P114

1E

EPA SAMPLE NO.

SS-2

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00371.raw

% Moisture: 9.22 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	36	U
11104-28-2	Aroclor 1221	74	U
11141-16-5	Aroclor 1232	36	U
53469-21-9	Aroclor 1242	51	P J
12672-29-6	Aroclor 1248	36	U
11097-69-1	Aroclor 1254	53	P J
11096-82-5	Aroclor 1260	47	
37324-23-5	Aroclor 1262	36	U J
11100-14-4	Aroclor 1268	36	U

1E

EPA SAMPLE NO.

SS-3

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00346.raw

% Moisture: 14.6 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	78	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	160	
11096-82-5	Aroclor 1260	98	
37324-23-5	Aroclor 1262	39	U X J
11100-14-4	Aroclor 1268	39	U

AECOM049 P129

1E

EPA SAMPLE NO.

SS-4

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00347.raw

% Moisture: 9.93 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	37	U
11104-28-2	Aroclor 1221	74	U
11141-16-5	Aroclor 1232	37	U
53469-21-9	Aroclor 1242	37	U
12672-29-6	Aroclor 1248	37	U
11097-69-1	Aroclor 1254	100	P
11096-82-5	Aroclor 1260	120	
37324-23-5	Aroclor 1262	37	UX J
11100-14-4	Aroclor 1268	37	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00365.raw

% Moisture: 8.44 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	36	U
11104-28-2	Aroclor 1221	73	U
11141-16-5	Aroclor 1232	36	U
53469-21-9	Aroclor 1242	36	U
12672-29-6	Aroclor 1248	36	U
11097-69-1	Aroclor 1254	100	
11096-82-5	Aroclor 1260	91	
37324-23-5	Aroclor 1262	36	U
11100-14-4	Aroclor 1268	36	U

AECOM049 P150

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00030.raw

% Moisture: 14.6 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/01/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	12	U
93-72-1	2,4,5-TP (Silvex)	5.9	U
93-76-5	2,4,5-T	20	
94-82-6	2,4-DB	12	U

AECOM049 H24

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910491-003B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00032.raw

% Moisture: 9.93 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/01/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.6	U
93-76-5	2,4,5-T	50	
94-82-6	2,4-DB	54	

AECOM049 H31

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910571-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00034.raw

% Moisture: 8.44 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.5	U
93-76-5	2,4,5-T	18	~~U~~
94-82-6	2,4-DB	24	~~U~~ JN

AECOM049 H38

1E

EPA SAMPLE NO.

DUP-1

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00036.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.6	U
93-76-5	2,4,5-T	7.0	
94-82-6	2,4-DB	9.2	J

AECOM049 H45

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00038.raw

% Moisture: 9.88 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.5	U
93-76-5	2,4,5-T	11	
94-82-6	2,4-DB	8.0	J

AECOM049 H52

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-003B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00044.raw

% Moisture: 7.91 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.4	U
93-76-5	2,4,5-T	7.2	~~U~~
94-82-6	2,4-DB	7.5	~~U~~ J

AECOM049 H59

1E

EPA SAMPLE NO.

SS-2

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910681-004B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00046.raw

% Moisture: 9.22 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 09/29/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.5	U
93-76-5	2,4,5-T	13	
94-82-6	2,4-DB	19	

AECOM049 H66

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00335.raw

% Moisture: 26.7 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/12/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	140	U
93-72-1	2,4,5-TP (Silvex)	68	U
93-76-5	2,4,5-T	68	U
94-82-6	2,4-DB	140	U

AECOM049 H73

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00324.raw

% Moisture: 17.5 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/12/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	22	P
93-72-1	2,4,5-TP (Silvex)	6.1	U
93-76-5	2,4,5-T	16	P
94-82-6	2,4-DB	12	U

AECOM049 H85

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-003B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00328.raw

% Moisture: 31.1 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/12/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	15	U
93-72-1	2,4,5-TP (Silvex)	7.3	U
93-76-5	2,4,5-T	7.3	U
~~94-82-6~~	~~2,4-DB~~	~~7.8~~	~~U~~ R

AECOM049 H94

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910781-004B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00353.raw

% Moisture: 29.3 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/12/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/19/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	14	UJ
93-72-1	2,4,5-TP (Silvex)	7.1	U
93-76-5	2,4,5-T	6.8	~~UJ~~ J
94-82-6	2,4-DB	22	~~U~~ JN

AECOM049 H103

1E

EPA SAMPLE NO.

HERBICIDE ORGANICS ANALYSIS DATA SHEET

RB100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: 0910859-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00145.raw

% Moisture: Decanted: (Y/N) N Date Received: 10/05/09

Extraction: (Type) SEPF Date Extracted: 10/07/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/08/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

AECOM049 H114

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: 0910973-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00352.raw

% Moisture: 17.8 Decanted: (Y/N) N Date Received: 10/07/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/12/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/19/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q	
~~94-75-7~~	~~2,4-D~~	~~8.0~~	~~PJ~~	R
93-72-1	2,4,5-TP (Silvex)	6.1	U	
93-76-5	2,4,5-T	87	~~P~~ J	
~~94-82-6~~	~~2,4-DB~~	~~83~~	~~P~~	R

AECOM049 H120

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SS-3

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910491-002

Level (low/med): LOW Date Received: 9/23/2009

% Solids: 85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7200			P
7440-36-0	Antimony	1.3	B	J	P
7440-38-2	Arsenic	7.6			P
7440-39-3	Barium	216			P
7440-41-7	Beryllium	0.48	B	J	P
7440-43-9	Cadmium	0.63			P
7440-70-2	Calcium	49400		E J	P
7440-47-3	Chromium	27.6		E J	P
7440-48-4	Cobalt	7.0			P
7440-50-8	Copper	83.3		N J	P
7439-89-6	Iron	13300			P
7439-92-1	Lead	258		E J	P
7439-95-4	Magnesium	5140		E J	P
7439-96-5	Manganese	279		E J	P
7439-97-6	Mercury	0.40		N J	CV
7440-02-0	Nickel	15.5		E J	P
7440-09-7	Potassium	1440			P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.44	B	N J	P
7440-23-5	Sodium	357	B	J	P
7440-28-0	Thallium	1.1	B	J	P
7440-62-2	Vanadium	29.8		E J	P
7440-66-6	Zinc	463		E J	P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/26/09

AECOM049 M4

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SS-4

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910491-003

Level (low/med): LOW Date Received: 9/23/2009

% Solids: 90.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6880			P
7440-36-0	Antimony	1.2	B	J	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	93.8			P
7440-41-7	Beryllium	0.39	B	J	P
7440-43-9	Cadmium	0.41	B	J	P
7440-70-2	Calcium	39500		E J	P
7440-47-3	Chromium	17.7		E J	P
7440-48-4	Cobalt	5.1	B	J	P
7440-50-8	Copper	53.8		N J	P
7439-89-6	Iron	15700			P
7439-92-1	Lead	113		E J	P
7439-95-4	Magnesium	3400		E J	P
7439-96-5	Manganese	216		E J	P
7439-97-6	Mercury	0.21		N J	CV
7440-02-0	Nickel	15.2		E J	P
7440-09-7	Potassium	880			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.28	B	N J	P
7440-23-5	Sodium	234	B	J	P
7440-28-0	Thallium	1.2			P
7440-62-2	Vanadium	31.9		E J	P
7440-66-6	Zinc	188		E J	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SS-5

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910571-001

Level (low/med): LOW Date Received: 9/25/2009

% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7140			P
7440-36-0	Antimony	1.1	B	J	P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	98.8			P
7440-41-7	Beryllium	0.37	B	J	P
7440-43-9	Cadmium	0.39	B	J	P
7440-70-2	Calcium	20900		E J	P
7440-47-3	Chromium	27.5		E J	P
7440-48-4	Cobalt	6.4			P
7440-50-8	Copper	41.3		N J	P
7439-89-6	Iron	13900			P
7439-92-1	Lead	97.7		E J	P
7439-95-4	Magnesium	4940		E J	P
7439-96-5	Manganese	283		E J	P
7439-97-6	Mercury	0.18		N J	CV
7440-02-0	Nickel	14.3		E J	P
7440-09-7	Potassium	1110			P
7782-49-2	Selenium	0.27	U		P
7440-22-4	Silver	0.19	B	N J	P
7440-23-5	Sodium	183	B	J	P
7440-28-0	Thallium	1.0	B	J	P
7440-62-2	Vanadium	26.1		E J	P
7440-66-6	Zinc	199		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP-1

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910681-001

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5600			P
7440-36-0	Antimony	2.2	B	J	P
7440-38-2	Arsenic	7.3		J	P
7440-39-3	Barium	137		J	P
7440-41-7	Beryllium	0.35	B	J	P
7440-43-9	Cadmium	0.41	B	J	P
7440-70-2	Calcium	28800		E J	P
7440-47-3	Chromium	18.5		E J	P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	94.6		N J	P
7439-89-6	Iron	19400		J	P
7439-92-1	Lead	183		E J	P
7439-95-4	Magnesium	3990		E J	P
7439-96-5	Manganese	237		E J	P
7439-97-6	Mercury	0.22		N J	CV
7440-02-0	Nickel	18.7		E J	P
7440-09-7	Potassium	903			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.34	B	N J	P
7440-23-5	Sodium	343	B	J	P
7440-28-0	Thallium	1.3			P
7440-62-2	Vanadium	24.6		E J	P
7440-66-6	Zinc	425		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049-M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-3 (4'-5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910681-002

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 90.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6120			P
7440-36-0	Antimony	0.99	B	J	P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	85.9			P
7440-41-7	Beryllium	0.37	B	J	P
7440-43-9	Cadmium	0.28	B	J	P
7440-70-2	Calcium	16400		E J	P
7440-47-3	Chromium	15.3		E J	P
7440-48-4	Cobalt	5.9			P
7440-50-8	Copper	52.9		N J	P
7439-89-6	Iron	14000			P
7439-92-1	Lead	130		E J	P
7439-95-4	Magnesium	2570		E J	P
7439-96-5	Manganese	275		E J	P
7439-97-6	Mercury	0.24		N J	CV
7440-02-0	Nickel	13.0		E J	P
7440-09-7	Potassium	945			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.15	B	N J	P
7440-23-5	Sodium	154	B	J	P
7440-28-0	Thallium	0.90	B	J	P
7440-62-2	Vanadium	23.7		E J	P
7440-66-6	Zinc	227		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M8

FORM I - IN

ILM04.1

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-17 (1'-2')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910681-003

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5850			P
7440-36-0	Antimony	5.0	B	J	P
7440-38-2	Arsenic	24.5			P
7440-39-3	Barium	271			P
7440-41-7	Beryllium	0.60			P
7440-43-9	Cadmium	0.037	U		P
7440-70-2	Calcium	8580		E J	P
7440-47-3	Chromium	39.9		E J	P
7440-48-4	Cobalt	11.0			P
7440-50-8	Copper	253		N J	P
7439-89-6	Iron	63200			P
7439-92-1	Lead	631		E J	P
7439-95-4	Magnesium	2550		E J	P
7439-96-5	Manganese	372		E J	P
7439-97-6	Mercury	1.3		N J	CV
7440-02-0	Nickel	42.1		E J	P
7440-09-7	Potassium	1120			P
7782-49-2	Selenium	0.93			P
7440-22-4	Silver	0.81	B	N J	P
7440-23-5	Sodium	183	B	J	P
7440-28-0	Thallium	8.6			P
7440-62-2	Vanadium	100		E J	P
7440-66-6	Zinc	714		E J	P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/26/09

AECOM049 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SS-2

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910681-004

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5070			P
7440-36-0	Antimony	1.0	B	J	P
7440-38-2	Arsenic	4.9		J	P
7440-39-3	Barium	93.0		J	P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	0.35	B	J	P
7440-70-2	Calcium	47700		E J	P
7440-47-3	Chromium	18.4		E J	P
7440-48-4	Cobalt	5.6			P
7440-50-8	Copper	63.1		N J	P
7439-89-6	Iron	13100		J	P
7439-92-1	Lead	184		E J	P
7439-95-4	Magnesium	6900		E J	P
7439-96-5	Manganese	235		E J	P
7439-97-6	Mercury	0.14		N J	CV
7440-02-0	Nickel	15.7		E J	P
7440-09-7	Potassium	866			P
7782-49-2	Selenium	0.27	U		P
7440-22-4	Silver	0.21	B	N J	P
7440-23-5	Sodium	428	B	J	P
7440-28-0	Thallium	0.85	B	J	P
7440-62-2	Vanadium	20.8		E J	P
7440-66-6	Zinc	275		E J	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-5 (16'-18')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910781-001

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 73.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3680			P
7440-36-0	Antimony	1.4	B	J	P
7440-38-2	Arsenic	18.0			P
7440-39-3	Barium	41.5			P
7440-41-7	Beryllium	0.43	B	J	P
7440-43-9	Cadmium	0.19	B	J	P
7440-70-2	Calcium	1990		E J	P
7440-47-3	Chromium	16.4		E J	P
7440-48-4	Cobalt	8.6			P
7440-50-8	Copper	148		N J	P
7439-89-6	Iron	25600			P
7439-92-1	Lead	176		E J	P
7439-95-4	Magnesium	1630		E J	P
7439-96-5	Manganese	97.9		E J	P
7439-97-6	Mercury	1.3		N J	CV
7440-02-0	Nickel	19.3		E J	P
7440-09-7	Potassium	612	B	J	P
7782-49-2	Selenium	4.4			P
7440-22-4	Silver	0.35	B	N J	P
7440-23-5	Sodium	603	B	J	P
7440-28-0	Thallium	2.6			P
7440-62-2	Vanadium	13.8		E J	P
7440-66-6	Zinc	153		E J	P

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-5 (28'-30')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910781-002

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2810			P
7440-36-0	Antimony	0.35	B	J	P
7440-38-2	Arsenic	0.98	B	J	P
7440-39-3	Barium	7.8	B	J	P
7440-41-7	Beryllium	0.15	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	876		E J	P
7440-47-3	Chromium	8.5		E J	P
7440-48-4	Cobalt	5.5	B	J	P
7440-50-8	Copper	4.5		N J	P
7439-89-6	Iron	4680			P
7439-92-1	Lead	2.1		E J	P
7439-95-4	Magnesium	1530		E J	P
7439-96-5	Manganese	53.1		E J	P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	10.9		E J	P
7440-09-7	Potassium	575	B	J	P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	336	B	J	P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	10.8		E J	P
7440-66-6	Zinc	17.4		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-5 (52'-54')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910781-003

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 68.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22700			P
7440-36-0	Antimony	2.1	B	J	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	232			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.049	U		P
7440-70-2	Calcium	13100		E J	P
7440-47-3	Chromium	53.8		E J	P
7440-48-4	Cobalt	20.8			P
7440-50-8	Copper	37.6		N J	P
7439-89-6	Iron	39400			P
7439-92-1	Lead	11.4		E J	P
7439-95-4	Magnesium	16600		E J	P
7439-96-5	Manganese	680		E J	P
7439-97-6	Mercury	0.024	U	N	CV
7440-02-0	Nickel	46.3		E J	P
7440-09-7	Potassium	8660			P
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.12	U	N J	P
7440-23-5	Sodium	1970			P
7440-28-0	Thallium	3.1			P
7440-62-2	Vanadium	63.9		E J	P
7440-66-6	Zinc	95.2		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049-M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-8 (2'-3')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910781-004

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 70.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4840			P
7440-36-0	Antimony	1.9	B	J	P
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	757			P
7440-41-7	Beryllium	0.42	B	J	P
7440-43-9	Cadmium	0.79			P
7440-70-2	Calcium	70100		E J	P
7440-47-3	Chromium	42.2		E J	P
7440-48-4	Cobalt	5.0	B	J	P
7440-50-8	Copper	51.9		N J	P
7439-89-6	Iron	7640			P
7439-92-1	Lead	289		E J	P
7439-95-4	Magnesium	15500		E J	P
7439-96-5	Manganese	227		E J	P
7439-97-6	Mercury	0.48		N J	CV
7440-02-0	Nickel	41.6		E J	P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.46	B	N J	P
7440-23-5	Sodium	677	B	J	P
7440-28-0	Thallium	0.52	B	J	P
7440-62-2	Vanadium	18.6		E J	P
7440-66-6	Zinc	563		E J	P

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

RB100509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): WATER Lab Sample ID: 0910859-001

Level (low/med): LOW Date Received: 10/5/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	3.0	U		P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.53	~~B~~	J	P
7440-70-2	Calcium	46.9	~~B~~	J	P
7440-47-3	Chromium	0.89	~~B~~	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	0.83	U		P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	61.7	~~B~~	J	P
7439-92-1	Lead	1.8	U	J	P
7439-95-4	Magnesium	19.6	~~B~~	J	P
7439-96-5	Manganese	0.83	~~B~~	J	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	57.0	~~B~~	J	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	116	U		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	5.2	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported:10/26/09

AECOM049 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-7 (6'-8')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Lab Sample ID: 0910973-001

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 82.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7030			P
7440-36-0	Antimony	3.7	B	J	P
7440-38-2	Arsenic	20.5			P
7440-39-3	Barium	243			P
7440-41-7	Beryllium	0.44	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	33500		E J	P
7440-47-3	Chromium	39.4		E J	P
7440-48-4	Cobalt	8.1			P
7440-50-8	Copper	91.7		N J	P
7439-89-6	Iron	67300			P
7439-92-1	Lead	300		E J	P
7439-95-4	Magnesium	4140		E J	P
7439-96-5	Manganese	455		E J	P
7439-97-6	Mercury	0.70		N J	CV
7440-02-0	Nickel	33.8		E J	P
7440-09-7	Potassium	1000			P
7782-49-2	Selenium	1.2			P
7440-22-4	Silver	0.51	B	N J	P
7440-23-5	Sodium	501	B	J	P
7440-28-0	Thallium	8.6			P
7440-62-2	Vanadium	64.3		E J	P
7440-66-6	Zinc	696		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported:10/26/09

AECOM049 M16

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910681-004**
ClientSample ID. : **SS-2**

Sample Information...
Type : Soil

Origin:

Collected : 9/28/2009 9:45:00 AM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.55		1	mg/Kg-dry	SW9014	10/05/2009 5:59 PM
Percent Moisture	9.2		1	wt%	D2216	09/30/2009 2:47 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S282

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910681-001**
ClientSample ID. : DUP-1
SS-2

Sample Information...
Type : Soil

Origin:

Collected : 9/28/2009
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	10/01/2009 6:15 PM
Percent Moisture	10.3		1	wt%	D2216	09/30/2009 2:41 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S279

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 , FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910491-002

ClientSample ID. : SS-3

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 9/22/2009 7:15:00 AM
Received : 9/23/2009 5:34:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	09/29/2009 3:43 PM
Percent Moisture	14.6		1	wt%	D2216	09/24/2009 4:17 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S276

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910491-003**

ClientSample ID. : **SS-4**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :9/23/2009 2:15:00 PM
Received :9/23/2009 5:34:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	09/29/2009 3:46 PM
Percent Moisture	9.9		1	wt%	D2216	09/24/2009 4:19 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S277

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910571-001**
ClientSample ID. : SS-5

Sample Information...
Type : Soil

Origin:

Collected :9/25/2009 8:30:00 AM
Received :9/25/2009 5:58:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.55		1	mg/Kg-dry	SW9014	10/01/2009 6:13 PM
Percent Moisture	8.4		1	wt%	D2216	09/30/2009 1:03 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S278

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910681-002**
ClientSample ID. : **SB-3 (4'-5')**

Sample Information...
Type : Soil

Origin:

Collected : 9/28/2009 1:13:00 PM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	10/01/2009 6:16 PM
Percent Moisture	9.9		1	wt%	D2216	09/30/2009 2:42 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S280

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910681-003**
ClientSample ID. : SB-17 (1'-2')

Sample Information...
Type : Soil

Origin:

Collected :9/25/2009 4:00:00 PM
Received :9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.54		1	mg/Kg-dry	SW9014	10/07/2009 3:03 PM
Percent Moisture	7.9		1	wt%	D2216	09/30/2009 2:45 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S281

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910781-001**
ClientSample ID. : **SB-5 (16'-18')**

Sample Information...
Type : Soil

Origin:

Collected :9/28/2009 4:20:00 PM
Received :9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.68		1	mg/Kg-dry	SW9014	10/09/2009 5:02 PM
Percent Moisture	26.7		1	wt%	D2216	10/05/2009 8:04 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S283

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910781-002
ClientSample ID. : SB-5 (28'-30')

Sample Information...
Type : Soil

Origin:

Collected :9/28/2009 4:40:00 PM
Received :9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/08/2009 7:14 PM
Percent Moisture	17.5		1	wt%	D2216	10/05/2009 8:05 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S284

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910781-003
ClientSample ID. : SB-5 (52'-54')

Sample Information...
Type : Soil

Origin:

Collected :9/28/2009 4:30:00 PM
Received :9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.73		1	mg/Kg-dry	SW9014	10/05/2009 6:36 PM
Percent Moisture	31.1		1	wt%	D2216	10/05/2009 8:06 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S285

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910781-004**
ClientSample ID. : **SB-8 (2'-3')**

Sample Information...
Type : Soil

Origin:

Collected :9/27/2009 3:46:00 PM
Received :9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.71		1	mg/Kg-dry	SW9014	10/09/2009 5:03 PM
Percent Moisture	29.3		1	wt%	D2216	10/05/2009 8:07 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S286

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910859-001
ClientSample ID. : RB100509

Sample Information...
Type : Blank

Origin:

Collected : 10/5/2009 3:15:00 PM
Received : 10/5/2009 4:55:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
Cyanide	< 10.0		1	µg/L	200	SW9014	10/12/2009 5:05 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S287

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910973-001
ClientSample ID. : SB-7 (6'-8')

Sample Information...
Type : Soil

Origin:

Collected : 10/5/2009 4:05:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/20/2009 4:32 PM
Percent Moisture	17.8		1	wt%	D2216	10/12/2009 7:59 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

AECOM049 S288

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(3-4)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3472.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 22.2 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	UJ
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~16~~ 17	~~B~~ U
67-64-1	Acetone	33	J
75-69-4	Trichlorofluoromethane	6	UJ
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	5	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	5	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	32	U
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(3-4)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3472.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 22.2 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(3-4)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3472.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: not dec. 22.2 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(2-3)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3475.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 12.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~14~~ 15	~~B~~ U
67-64-1	Acetone	39	J
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	4	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(2-3)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3475.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 12.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	13	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16(2-3)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3475.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 12.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	12	
95-47-6	o-Xylene	4	J
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(4-5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3476.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 15.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	15	~~B~~ U
67-64-1	Acetone	79	J
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	11	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(4-5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3476.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 15.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18(4-5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3476.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. 15.9 Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) WATER Lab Sample ID: 0910572-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7625.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) WATER Lab Sample ID: 0910572-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7625.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) WATER Lab Sample ID: 0910572-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7625.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3493.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Repeat original analysis

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	UJ
75-71-8	Dichlorodifluoromethane	6	UJ
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	UJ
75-00-3	Chloroethane	6	UJ
75-09-2	Methylene chloride	20	B U
67-64-1	Acetone	190	B J
75-69-4	Trichlorofluoromethane	6	UJ
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	27	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	5	J
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	21	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	23	J
110-82-7	Cyclohexane	7	J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	5	J
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3493.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	UJ
108-88-3	Toluene	70	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	28	J
100-42-5	Styrene	4	J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3493.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	31	J
95-47-6	o-Xylene	63	J
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	24	J
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	J
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3517.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	15	B
67-64-1	Acetone	120	
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	11	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	12	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	8	
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	3	J
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3517.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	40	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	24	
100-42-5	Styrene	4	J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(4'-5')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3517.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 18.5 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	15	
95-47-6	o-Xylene	59	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	19	
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	J
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3494.D

Level: (low/med) LOW / MED Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 / MLS

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	10	UJ
75-71-8	Dichlorodifluoromethane	10	UJ
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	UJ
75-00-3	Chloroethane	10	UJ
75-09-2	Methylene chloride	29	~~B~~ U
67-64-1	Acetone	110	~~B~~ J
75-69-4	Trichlorofluoromethane	10	UJ
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	8	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
79-20-9	Methyl Acetate	10	U
78-93-3	2-Butanone	20	J
71-55-6	1,1,1-Trichloroethane	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
56-23-5	Carbon tetrachloride	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	11000 ~~4800~~	~~E~~
110-82-7	Cyclohexane	10	UJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	3	J
591-78-6	2-Hexanone	49	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3494.D

Level: (low/med) LOW/MED Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	10	U J
108-88-3	Toluene	7200 ~~2900~~	~~E~~
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	1500 ~~450~~	~~E~~
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3494.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	310	
95-47-6	o-Xylene	210	
106-93-4	1,2-Dibromoethane	10	U
98-82-8	Isopropylbenzene	6	J
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66784.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
75-71-8	Dichlorodifluoromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene chloride	1200	U
67-64-1	Acetone	6100	U
75-69-4	Trichlorofluoromethane	1200	U
75-35-4	1,1-Dichloroethene	1200	U
75-15-0	Carbon disulfide	1200	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U
75-34-3	1,1-Dichloroethane	1200	U
67-66-3	Chloroform	1200	U
107-06-2	1,2-Dichloroethane	1200	U
79-20-9	Methyl Acetate	1200	U
78-93-3	2-Butanone	1300	DJ
71-55-6	1,1,1-Trichloroethane	1200	U
156-60-5	trans-1,2-Dichloroethene	1200	U
56-23-5	Carbon tetrachloride	1200	U
1634-04-4	Methyl tert-butyl ether	1200	U
75-27-4	Bromodichloromethane	1200	U
78-87-5	1,2-Dichloropropane	1200	U
156-59-2	cis-1,2-Dichloroethene	1200	U
10061-01-5	cis-1,3-Dichloropropene	1200	U
79-01-6	Trichloroethene	1200	U
124-48-1	Dibromochloromethane	1200	U
79-00-5	1,1,2-Trichloroethane	1200	U
71-43-2	Benzene	11000	D
110-82-7	Cyclohexane	1200	U
10061-02-6	trans-1,3-Dichloropropene	1200	U
75-25-2	Bromoform	1200	U
108-10-1	4-Methyl-2-pentanone	6100	U
591-78-6	2-Hexanone	6100	U
127-18-4	Tetrachloroethene	1200	U
79-34-5	1,1,2,2-Tetrachloroethane	1200	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66784.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1200	U
108-88-3	Toluene	7200	D
108-90-7	Chlorobenzene	1200	U
100-41-4	Ethylbenzene	1500	D
100-42-5	Styrene	1200	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(20'-21.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66784.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 49.1 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	1200	DJ
95-47-6	o-Xylene	680	DJ
106-93-4	1,2-Dibromoethane	1200	U
98-82-8	Isopropylbenzene	1200	U
541-73-1	1,3-Dichlorobenzene	1200	U
106-46-7	1,4-Dichlorobenzene	1200	U
95-50-1	1,2-Dichlorobenzene	1200	U
96-12-8	1,2-Dibromo-3-chloropropane	1200	U
120-82-1	1,2,4-Trichlorobenzene	1200	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(36'-38')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3503.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	29	U J
75-71-8	Dichlorodifluoromethane	29	U J
74-83-9	Bromomethane	29	U
75-01-4	Vinyl chloride	29	U J
75-00-3	Chloroethane	29	U J
75-09-2	Methylene chloride	81	~~B~~ U
67-64-1	Acetone	140 ~~110~~	~~BJ~~ U
75-69-4	Trichlorofluoromethane	29	U J
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon disulfide	7	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
75-34-3	1,1-Dichloroethane	29	U
67-66-3	Chloroform	29	U
107-06-2	1,2-Dichloroethane	29	U
79-20-9	Methyl Acetate	29	U
78-93-3	2-Butanone	140	U
71-55-6	1,1,1-Trichloroethane	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
56-23-5	Carbon tetrachloride	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-27-4	Bromodichloromethane	29	U
78-87-5	1,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
79-01-6	Trichloroethene	29	U
124-48-1	Dibromochloromethane	29	U
79-00-5	1,1,2-Trichloroethane	29	U
71-43-2	Benzene	25	J
110-82-7	Cyclohexane	29	U J
10061-02-6	trans-1,3-Dichloropropene	29	U
75-25-2	Bromoform	29	U
108-10-1	4-Methyl-2-pentanone	140	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(36'-38')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3503.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	29	UJ
108-88-3	Toluene	18	J
108-90-7	Chlorobenzene	29	U
100-41-4	Ethylbenzene	690	
100-42-5	Styrene	29	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(36'-38')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3503.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	900	
95-47-6	o-Xylene	650	
106-93-4	1,2-Dibromoethane	29	U
98-82-8	Isopropylbenzene	39	J
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3495.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Report original analysis

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U J
75-71-8	Dichlorodifluoromethane	7	U J
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U J
75-09-2	Methylene chloride	19	~~B~~ U
67-64-1	Acetone	43	~~B~~ J
75-69-4	Trichlorofluoromethane	7	U J
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	10	
110-82-7	Cyclohexane	7	U J
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3495.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	UJ
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3495.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U J
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3518.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	16	B
67-64-1	Acetone	35	
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	4	J
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3518.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9(40'-42')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3518.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 25.9 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3496.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 / 5.0

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U J
75-71-8	Dichlorodifluoromethane	7	U J
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U J
75-09-2	Methylene chloride	21 ~~20~~	~~B~~ U
67-64-1	Acetone	440 ~~280~~	~~EB~~ J
75-69-4	Trichlorofluoromethane	7	U J
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	15	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	2	J
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	6	J
110-82-7	Cyclohexane	7	U J
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	3	J
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3496.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	UJ
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	67	
100-42-5	Styrene	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3496.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	75	
95-47-6	o-Xylene	33	
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	11	J
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	6	J
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3519.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	34	U
75-71-8	Dichlorodifluoromethane	34	U
74-83-9	Bromomethane	34	U
75-01-4	Vinyl chloride	34	U
75-00-3	Chloroethane	34	U
75-09-2	Methylene chloride	77	DB
67-64-1	Acetone	440	D
75-69-4	Trichlorofluoromethane	34	U
75-35-4	1,1-Dichloroethene	34	U
75-15-0	Carbon disulfide	23	DJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	34	U
75-34-3	1,1-Dichloroethane	34	U
67-66-3	Chloroform	34	U
107-06-2	1,2-Dichloroethane	34	U
79-20-9	Methyl Acetate	34	U
78-93-3	2-Butanone	9	DJ
71-55-6	1,1,1-Trichloroethane	34	U
156-60-5	trans-1,2-Dichloroethene	34	U
56-23-5	Carbon tetrachloride	34	U
1634-04-4	Methyl tert-butyl ether	34	U
75-27-4	Bromodichloromethane	34	U
78-87-5	1,2-Dichloropropane	34	U
156-59-2	cis-1,2-Dichloroethene	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U
79-01-6	Trichloroethene	34	U
124-48-1	Dibromochloromethane	34	U
79-00-5	1,1,2-Trichloroethane	34	U
71-43-2	Benzene	34	U
110-82-7	Cyclohexane	34	U
10061-02-6	trans-1,3-Dichloropropene	34	U
75-25-2	Bromoform	34	U
108-10-1	4-Methyl-2-pentanone	170	U
591-78-6	2-Hexanone	170	U
127-18-4	Tetrachloroethene	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3519.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	34	U
108-88-3	Toluene	34	U
108-90-7	Chlorobenzene	34	U
100-41-4	Ethylbenzene	150	D
100-42-5	Styrene	34	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(3'-4')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3519.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	20	DJ
95-47-6	o-Xylene	83	D
106-93-4	1,2-Dibromoethane	34	U
98-82-8	Isopropylbenzene	30	DJ
541-73-1	1,3-Dichlorobenzene	34	U
106-46-7	1,4-Dichlorobenzene	19	DJ
95-50-1	1,2-Dichlorobenzene	34	U
96-12-8	1,2-Dibromo-3-chloropropane	34	U
120-82-1	1,2,4-Trichlorobenzene	34	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(48'-50')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3497.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	UJ
75-71-8	Dichlorodifluoromethane	7	UJ
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	UJ
75-00-3	Chloroethane	7	UJ
75-09-2	Methylene chloride	21 ~~19~~	~~B~~ U
67-64-1	Acetone	34 ~~23~~	~~BJ~~ U
75-69-4	Trichlorofluoromethane	7	UJ
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	210	
110-82-7	Cyclohexane	7	UJ
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(48'-50')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3497.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	UJ
108-88-3	Toluene	48	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	15	
100-42-5	Styrene	9	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(48'-50')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3497.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 27.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	20	
95-47-6	o-Xylene	12	
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	UJ
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3505.D

Level: (low/med) LOW / Med Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00 / Med @ 50X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	62	U J
75-71-8	Dichlorodifluoromethane	62	U
74-83-9	Bromomethane	62	U
75-01-4	Vinyl chloride	62	U
75-00-3	Chloroethane	62	U
75-09-2	Methylene chloride	190	~~B~~ UJ
67-64-1	Acetone	320	~~B~~ J
75-69-4	Trichlorofluoromethane	62	U J
75-35-4	1,1-Dichloroethene	62	U J
75-15-0	Carbon disulfide	86	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	62	U J
75-34-3	1,1-Dichloroethane	62	U
67-66-3	Chloroform	62	U
107-06-2	1,2-Dichloroethane	62	U
79-20-9	Methyl Acetate	62	U
78-93-3	2-Butanone	92	J
71-55-6	1,1,1-Trichloroethane	62	U J
156-60-5	trans-1,2-Dichloroethene	62	U
56-23-5	Carbon tetrachloride	62	U
1634-04-4	Methyl tert-butyl ether	62	U
75-27-4	Bromodichloromethane	62	U
78-87-5	1,2-Dichloropropane	62	U
156-59-2	cis-1,2-Dichloroethene	62	U
10061-01-5	cis-1,3-Dichloropropene	62	U
79-01-6	Trichloroethene	62	U
124-48-1	Dibromochloromethane	62	U
79-00-5	1,1,2-Trichloroethane	62	U
71-43-2	Benzene	470000 ~~80000~~	~~E~~ J
110-82-7	Cyclohexane	85	J
10061-02-6	trans-1,3-Dichloropropene	62	U J
75-25-2	Bromoform	62	U
108-10-1	4-Methyl-2-pentanone	310	U
591-78-6	2-Hexanone	310	U
127-18-4	Tetrachloroethene	62	U
79-34-5	1,1,2,2-Tetrachloroethane	62	U

SLR

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3505.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	320	J
108-88-3	Toluene	640000 ~~81000~~	~~E~~ J
108-90-7	Chlorobenzene	62	U J
100-41-4	Ethylbenzene	74000 ~~32000~~	~~E~~ J
100-42-5	Styrene	350000 ~~28000~~	~~E~~ J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3505.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	490000 ~~54000~~	~~E~~ J
95-47-6	o-Xylene	210000 ~~27000~~	~~E~~ J
106-93-4	1,2-Dibromoethane	62	U J
98-82-8	Isopropylbenzene	1300	J
541-73-1	1,3-Dichlorobenzene	62	U J
106-46-7	1,4-Dichlorobenzene	62	U
95-50-1	1,2-Dichlorobenzene	62	U
96-12-8	1,2-Dibromo-3-chloropropane	62	U
120-82-1	1,2,4-Trichlorobenzene	62	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66785.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	39000	U
75-71-8	Dichlorodifluoromethane	39000	U
74-83-9	Bromomethane	39000	U
75-01-4	Vinyl chloride	39000	U
75-00-3	Chloroethane	39000	U
75-09-2	Methylene chloride	39000	U
67-64-1	Acetone	190000	U
75-69-4	Trichlorofluoromethane	39000	U
75-35-4	1,1-Dichloroethene	39000	U
75-15-0	Carbon disulfide	39000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	39000	U
75-34-3	1,1-Dichloroethane	39000	U
67-66-3	Chloroform	39000	U
107-06-2	1,2-Dichloroethane	39000	U
79-20-9	Methyl Acetate	39000	U
78-93-3	2-Butanone	190000	U
71-55-6	1,1,1-Trichloroethane	39000	U
156-60-5	trans-1,2-Dichloroethene	39000	U
56-23-5	Carbon tetrachloride	39000	U
1634-04-4	Methyl tert-butyl ether	39000	U
75-27-4	Bromodichloromethane	39000	U
78-87-5	1,2-Dichloropropane	39000	U
156-59-2	cis-1,2-Dichloroethene	39000	U
10061-01-5	cis-1,3-Dichloropropene	39000	U
79-01-6	Trichloroethene	39000	U
124-48-1	Dibromochloromethane	39000	U
79-00-5	1,1,2-Trichloroethane	39000	U
71-43-2	Benzene	490000	D
110-82-7	Cyclohexane	39000	U
10061-02-6	trans-1,3-Dichloropropene	39000	U
75-25-2	Bromoform	39000	U
108-10-1	4-Methyl-2-pentanone	190000	U
591-78-6	2-Hexanone	190000	U
127-18-4	Tetrachloroethene	39000	U
79-34-5	1,1,2,2-Tetrachloroethane	39000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66785.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	39000	U
108-88-3	Toluene	640000	D
108-90-7	Chlorobenzene	39000	U
100-41-4	Ethylbenzene	74000	D
100-42-5	Styrene	350000	D

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(18'-24')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66785.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 19.4 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	490000	D
95-47-6	o-Xylene	210000	D
106-93-4	1,2-Dibromoethane	39000	U
98-82-8	Isopropylbenzene	39000	U
541-73-1	1,3-Dichlorobenzene	39000	U
106-46-7	1,4-Dichlorobenzene	39000	U
95-50-1	1,2-Dichlorobenzene	39000	U
96-12-8	1,2-Dibromo-3-chloropropane	39000	U
120-82-1	1,2,4-Trichlorobenzene	39000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3498.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 / 5.0

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U J
75-71-8	Dichlorodifluoromethane	7	U J
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U J
75-09-2	Methylene chloride	20 ~~19~~	~~B~~ U
67-64-1	Acetone	390 ~~270~~	~~EB~~ J U
75-69-4	Trichlorofluoromethane	7	U J
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	8	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	6	J
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	28	J
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	20	J
110-82-7	Cyclohexane	7	U J
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	12	J
591-78-6	2-Hexanone	33	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3498.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U J
108-88-3	Toluene	24	J
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	13	J
100-42-5	Styrene	4	J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3498.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	55	J
95-47-6	o-Xylene	44	J
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	20	J
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	4	J
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3520.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	33	U
75-71-8	Dichlorodifluoromethane	33	U
74-83-9	Bromomethane	33	U
75-01-4	Vinyl chloride	33	U
75-00-3	Chloroethane	33	U
75-09-2	Methylene chloride	73	DB
67-64-1	Acetone	390	D
75-69-4	Trichlorofluoromethane	33	U
75-35-4	1,1-Dichloroethene	33	U
75-15-0	Carbon disulfide	13	DJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33	U
75-34-3	1,1-Dichloroethane	33	U
67-66-3	Chloroform	33	U
107-06-2	1,2-Dichloroethane	33	U
79-20-9	Methyl Acetate	33	U
78-93-3	2-Butanone	52	DJ
71-55-6	1,1,1-Trichloroethane	33	U
156-60-5	trans-1,2-Dichloroethene	33	U
56-23-5	Carbon tetrachloride	33	U
1634-04-4	Methyl tert-butyl ether	33	U
75-27-4	Bromodichloromethane	33	U
78-87-5	1,2-Dichloropropane	33	U
156-59-2	cis-1,2-Dichloroethene	33	U
10061-01-5	cis-1,3-Dichloropropene	33	U
79-01-6	Trichloroethene	33	U
124-48-1	Dibromochloromethane	33	U
79-00-5	1,1,2-Trichloroethane	33	U
71-43-2	Benzene	30	DJ
110-82-7	Cyclohexane	33	U
10061-02-6	trans-1,3-Dichloropropene	33	U
75-25-2	Bromoform	33	U
108-10-1	4-Methyl-2-pentanone	20	DJ
591-78-6	2-Hexanone	170	U
127-18-4	Tetrachloroethene	33	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3520.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	33	U
108-88-3	Toluene	54	D
108-90-7	Chlorobenzene	33	U
100-41-4	Ethylbenzene	30	DJ
100-42-5	Styrene	12	DJ

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3520.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 24.8 Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	120	D
95-47-6	o-Xylene	98	D
106-93-4	1,2-Dibromoethane	33	U
98-82-8	Isopropylbenzene	37	D
541-73-1	1,3-Dichlorobenzene	33	U
106-46-7	1,4-Dichlorobenzene	10	DJ
95-50-1	1,2-Dichlorobenzene	33	U
96-12-8	1,2-Dibromo-3-chloropropane	33	U
120-82-1	1,2,4-Trichlorobenzene	33	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(11-13)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3507.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	58	U J
75-71-8	Dichlorodifluoromethane	58	U J
74-83-9	Bromomethane	58	U
75-01-4	Vinyl chloride	58	U J
75-00-3	Chloroethane	58	U J
75-09-2	Methylene chloride	150	~~B~~ U
67-64-1	Acetone	290 ~~95~~	~~BJ~~ U
75-69-4	Trichlorofluoromethane	58	U J
75-35-4	1,1-Dichloroethene	58	U
75-15-0	Carbon disulfide	58	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58	U
75-34-3	1,1-Dichloroethane	58	U
67-66-3	Chloroform	58	U
107-06-2	1,2-Dichloroethane	58	U
79-20-9	Methyl Acetate	58	U
78-93-3	2-Butanone	290	U
71-55-6	1,1,1-Trichloroethane	58	U
156-60-5	trans-1,2-Dichloroethene	58	U
56-23-5	Carbon tetrachloride	58	U
1634-04-4	Methyl tert-butyl ether	58	U
75-27-4	Bromodichloromethane	58	U
78-87-5	1,2-Dichloropropane	58	U
156-59-2	cis-1,2-Dichloroethene	58	U
10061-01-5	cis-1,3-Dichloropropene	58	U
79-01-6	Trichloroethene	58	U
124-48-1	Dibromochloromethane	58	U
79-00-5	1,1,2-Trichloroethane	58	U
71-43-2	Benzene	1600 ~~2800~~	~~E~~
110-82-7	Cyclohexane	58	U J
10061-02-6	trans-1,3-Dichloropropene	58	U
75-25-2	Bromoform	58	U
108-10-1	4-Methyl-2-pentanone	290	U
591-78-6	2-Hexanone	290	U
127-18-4	Tetrachloroethene	58	U
79-34-5	1,1,2,2-Tetrachloroethane	58	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(11-13)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3507.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	58	UJ
108-88-3	Toluene	3300 ~~4100~~	~~E~~
108-90-7	Chlorobenzene	58	U
100-41-4	Ethylbenzene	6800 ~~6800~~	~~E~~
100-42-5	Styrene	2300	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(11-13)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3507.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	14000 ~~12000~~	~~E~~
95-47-6	o-Xylene	7700 ~~7400~~	~~E~~
106-93-4	1,2-Dibromoethane	58	U
98-82-8	Isopropylbenzene	1100	J
541-73-1	1,3-Dichlorobenzene	58	U
106-46-7	1,4-Dichlorobenzene	58	U
95-50-1	1,2-Dichlorobenzene	58	U
96-12-8	1,2-Dibromo-3-chloropropane	58	U
120-82-1	1,2,4-Trichlorobenzene	58	U J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(11-13)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66789.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	720	U
75-71-8	Dichlorodifluoromethane	720	U
74-83-9	Bromomethane	720	U
75-01-4	Vinyl chloride	720	U
75-00-3	Chloroethane	720	U
75-09-2	Methylene chloride	720	U
67-64-1	Acetone	3600	U
75-69-4	Trichlorofluoromethane	720	U
75-35-4	1,1-Dichloroethene	720	U
75-15-0	Carbon disulfide	720	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	720	U
75-34-3	1,1-Dichloroethane	720	U
67-66-3	Chloroform	720	U
107-06-2	1,2-Dichloroethane	720	U
79-20-9	Methyl Acetate	720	U
78-93-3	2-Butanone	460	DJ
71-55-6	1,1,1-Trichloroethane	720	U
156-60-5	trans-1,2-Dichloroethene	720	U
56-23-5	Carbon tetrachloride	720	U
1634-04-4	Methyl tert-butyl ether	720	U
75-27-4	Bromodichloromethane	720	U
78-87-5	1,2-Dichloropropane	720	U
156-59-2	cis-1,2-Dichloroethene	720	U
10061-01-5	cis-1,3-Dichloropropene	720	U
79-01-6	Trichloroethene	720	U
124-48-1	Dibromochloromethane	720	U
79-00-5	1,1,2-Trichloroethane	720	U
71-43-2	Benzene	1600	D
110-82-7	Cyclohexane	720	U
10061-02-6	trans-1,3-Dichloropropene	720	U
75-25-2	Bromoform	720	U
108-10-1	4-Methyl-2-pentanone	3600	U
591-78-6	2-Hexanone	3600	U
127-18-4	Tetrachloroethene	720	U
79-34-5	1,1,2,2-Tetrachloroethane	720	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(11-13)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66789.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	720	U
108-88-3	Toluene	3300	D
108-90-7	Chlorobenzene	720	U
100-41-4	Ethylbenzene	6800	D
100-42-5	Styrene	2500	D

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-14B(11-13)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66789.D

Level: (low/med) MED Date Received: 09/28/09

% Moisture: not dec. 13.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	14000	D
95-47-6	o-Xylene	7700	D
106-93-4	1,2-Dibromoethane	720	U
98-82-8	Isopropylbenzene	1400	D
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
95-50-1	1,2-Dichlorobenzene	720	U
96-12-8	1,2-Dibromo-3-chloropropane	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3500.D

Level: (low/med) LOW / MLS Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00 / MLS @ 10X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	18	~~B~~ UJ
67-64-1	Acetone	140	~~B~~ J
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U J
75-15-0	Carbon disulfide	2	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U J
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	43	J
71-55-6	1,1,1-Trichloroethane	6	U J
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	~~6E000 4600~~	~~E~~
110-82-7	Cyclohexane	6	U J
10061-02-6	trans-1,3-Dichloropropene	6	U J
75-25-2	Bromoform	6	U J
108-10-1	4-Methyl-2-pentanone	4	J
591-78-6	2-Hexanone	29	U J
127-18-4	Tetrachloroethene	6	U J
79-34-5	1,1,2,2-Tetrachloroethane	6	U J

SHR

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3500.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	15	J
108-88-3	Toluene	110000 ~~3500~~	~~E~~
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	18000 ~~910~~	~~E~~
100-42-5	Styrene	25000 ~~880~~	~~E~~

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3500.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	140000 ~~2400~~	~~E~~
95-47-6	o-Xylene	54000 ~~1600~~	~~E~~
106-93-4	1,2-Dibromoethane	6	UJ
98-82-8	Isopropylbenzene	19	J
541-73-1	1,3-Dichlorobenzene	6	UJ
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66792.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7100	U
75-71-8	Dichlorodifluoromethane	7100	U
74-83-9	Bromomethane	7100	U
75-01-4	Vinyl chloride	7100	U
75-00-3	Chloroethane	7100	U
75-09-2	Methylene chloride	7100	U
67-64-1	Acetone	36000	U
75-69-4	Trichlorofluoromethane	7100	U
75-35-4	1,1-Dichloroethene	7100	U
75-15-0	Carbon disulfide	7100	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7100	U
75-34-3	1,1-Dichloroethane	7100	U
67-66-3	Chloroform	7100	U
107-06-2	1,2-Dichloroethane	7100	U
79-20-9	Methyl Acetate	7100	U
78-93-3	2-Butanone	36000	U
71-55-6	1,1,1-Trichloroethane	7100	U
156-60-5	trans-1,2-Dichloroethene	7100	U
56-23-5	Carbon tetrachloride	7100	U
1634-04-4	Methyl tert-butyl ether	7100	U
75-27-4	Bromodichloromethane	7100	U
78-87-5	1,2-Dichloropropane	7100	U
156-59-2	cis-1,2-Dichloroethene	7100	U
10061-01-5	cis-1,3-Dichloropropene	7100	U
79-01-6	Trichloroethene	7100	U
124-48-1	Dibromochloromethane	7100	U
79-00-5	1,1,2-Trichloroethane	7100	U
71-43-2	Benzene	68000	D
110-82-7	Cyclohexane	7100	U
10061-02-6	trans-1,3-Dichloropropene	7100	U
75-25-2	Bromoform	7100	U
108-10-1	4-Methyl-2-pentanone	36000	U
591-78-6	2-Hexanone	36000	U
127-18-4	Tetrachloroethene	7100	U
79-34-5	1,1,2,2-Tetrachloroethane	7100	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66792.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7100	U
108-88-3	Toluene	110000	D
108-90-7	Chlorobenzene	7100	U
100-41-4	Ethylbenzene	18000	D
100-42-5	Styrene	25000	D

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66792.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 12.5 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	140000	D
95-47-6	o-Xylene	54000	D
106-93-4	1,2-Dibromoethane	7100	U
98-82-8	Isopropylbenzene	7100	U
541-73-1	1,3-Dichlorobenzene	7100	U
106-46-7	1,4-Dichlorobenzene	7100	U
95-50-1	1,2-Dichlorobenzene	7100	U
96-12-8	1,2-Dibromo-3-chloropropane	7100	U
120-82-1	1,2,4-Trichlorobenzene	7100	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3509.D

Level: (low/med) LOW / MLS Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00 / MLS @ 10x

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	59	U J
75-71-8	Dichlorodifluoromethane	59	U
74-83-9	Bromomethane	59	U
75-01-4	Vinyl chloride	59	U
75-00-3	Chloroethane	59	U
75-09-2	Methylene chloride	180	~~B~~ UJ
67-64-1	Acetone	370	~~B~~ J
75-69-4	Trichlorofluoromethane	59	U J
75-35-4	1,1-Dichloroethene	59	U J
75-15-0	Carbon disulfide	18	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	59	U J
75-34-3	1,1-Dichloroethane	59	U
67-66-3	Chloroform	59	U
107-06-2	1,2-Dichloroethane	59	U
79-20-9	Methyl Acetate	59	U
78-93-3	2-Butanone	61	J
71-55-6	1,1,1-Trichloroethane	59	U J
156-60-5	trans-1,2-Dichloroethene	59	U
56-23-5	Carbon tetrachloride	59	U
1634-04-4	Methyl tert-butyl ether	59	U
75-27-4	Bromodichloromethane	59	U
78-87-5	1,2-Dichloropropane	59	U
156-59-2	cis-1,2-Dichloroethene	59	U
10061-01-5	cis-1,3-Dichloropropene	59	U
79-01-6	Trichloroethene	59	U
124-48-1	Dibromochloromethane	59	U
79-00-5	1,1,2-Trichloroethane	59	U
71-43-2	Benzene	130000 ~~31000~~	~~E~~
110-82-7	Cyclohexane	59	U J
10061-02-6	trans-1,3-Dichloropropene	59	U
75-25-2	Bromoform	59	U
108-10-1	4-Methyl-2-pentanone	300	U
591-78-6	2-Hexanone	300	U
127-18-4	Tetrachloroethene	59	U
79-34-5	1,1,2,2-Tetrachloroethane	59	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3509.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	59	U J
108-88-3	Toluene	170000 ~~31000~~	~~E~~
108-90-7	Chlorobenzene	59	U J
100-41-4	Ethylbenzene	320000 ~~28000~~	~~E~~
100-42-5	Styrene	52000 ~~8200~~	~~E~~

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3509.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	310000 ~~24000~~	~~E~~
95-47-6	o-Xylene	140000 ~~14000~~	~~E~~
106-93-4	1,2-Dibromoethane	59	U J
98-82-8	Isopropylbenzene	8700 ~~2600~~	~~E~~ J
541-73-1	1,3-Dichlorobenzene	59	U J
106-46-7	1,4-Dichlorobenzene	59	U
95-50-1	1,2-Dichlorobenzene	59	U
96-12-8	1,2-Dibromo-3-chloropropane	59	U
120-82-1	1,2,4-Trichlorobenzene	59	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66793.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	15000	U
75-71-8	Dichlorodifluoromethane	15000	U
74-83-9	Bromomethane	15000	U
75-01-4	Vinyl chloride	15000	U
75-00-3	Chloroethane	15000	U
75-09-2	Methylene chloride	15000	U
67-64-1	Acetone	74000	U
75-69-4	Trichlorofluoromethane	15000	U
75-35-4	1,1-Dichloroethene	15000	U
75-15-0	Carbon disulfide	15000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15000	U
75-34-3	1,1-Dichloroethane	15000	U
67-66-3	Chloroform	15000	U
107-06-2	1,2-Dichloroethane	15000	U
79-20-9	Methyl Acetate	15000	U
78-93-3	2-Butanone	74000	U
71-55-6	1,1,1-Trichloroethane	15000	U
156-60-5	trans-1,2-Dichloroethene	15000	U
56-23-5	Carbon tetrachloride	15000	U
1634-04-4	Methyl tert-butyl ether	15000	U
75-27-4	Bromodichloromethane	15000	U
78-87-5	1,2-Dichloropropane	15000	U
156-59-2	cis-1,2-Dichloroethene	15000	U
10061-01-5	cis-1,3-Dichloropropene	15000	U
79-01-6	Trichloroethene	15000	U
124-48-1	Dibromochloromethane	15000	U
79-00-5	1,1,2-Trichloroethane	15000	U
71-43-2	Benzene	130000	D
110-82-7	Cyclohexane	15000	U
10061-02-6	trans-1,3-Dichloropropene	15000	U
75-25-2	Bromoform	15000	U
108-10-1	4-Methyl-2-pentanone	74000	U
591-78-6	2-Hexanone	74000	U
127-18-4	Tetrachloroethene	15000	U
79-34-5	1,1,2,2-Tetrachloroethane	15000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66793.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	15000	U
108-88-3	Toluene	270000	D
108-90-7	Chlorobenzene	15000	U
100-41-4	Ethylbenzene	320000	D
100-42-5	Styrene	82000	D

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66793.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 15.8 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	310000	D
95-47-6	o-Xylene	140000	D
106-93-4	1,2-Dibromoethane	15000	U
98-82-8	Isopropylbenzene	8700	DJ
541-73-1	1,3-Dichlorobenzene	15000	U
106-46-7	1,4-Dichlorobenzene	15000	U
95-50-1	1,2-Dichlorobenzene	15000	U
96-12-8	1,2-Dibromo-3-chloropropane	15000	U
120-82-1	1,2,4-Trichlorobenzene	15000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3511.D

Level: (low/med) LOW / MLS Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00 / MLS @ 20X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	59	U J
75-71-8	Dichlorodifluoromethane	59	U
74-83-9	Bromomethane	59	U
75-01-4	Vinyl chloride	59	U
75-00-3	Chloroethane	59	U
75-09-2	Methylene chloride	180 ~~170~~	~~B~~ UJ
67-64-1	Acetone	290 ~~120~~	~~BJ~~ UJ
75-69-4	Trichlorofluoromethane	59	U J
75-35-4	1,1-Dichloroethene	59	U J
75-15-0	Carbon disulfide	27	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	59	U J
75-34-3	1,1-Dichloroethane	59	U
67-66-3	Chloroform	59	U
107-06-2	1,2-Dichloroethane	59	U
79-20-9	Methyl Acetate	59	U
78-93-3	2-Butanone	290	U
71-55-6	1,1,1-Trichloroethane	59	U
156-60-5	trans-1,2-Dichloroethene	59	U
56-23-5	Carbon tetrachloride	59	U
1634-04-4	Methyl tert-butyl ether	59	U
75-27-4	Bromodichloromethane	59	U
78-87-5	1,2-Dichloropropane	59	U
156-59-2	cis-1,2-Dichloroethene	13	J
10061-01-5	cis-1,3-Dichloropropene	59	U J
79-01-6	Trichloroethene	59	U
124-48-1	Dibromochloromethane	59	U
79-00-5	1,1,2-Trichloroethane	59	U
71-43-2	Benzene	52000 ~~31000~~	~~E~~
110-82-7	Cyclohexane	59	U J
10061-02-6	trans-1,3-Dichloropropene	59	U
75-25-2	Bromoform	59	U
108-10-1	4-Methyl-2-pentanone	290	U
591-78-6	2-Hexanone	290	U
127-18-4	Tetrachloroethene	59	U
79-34-5	1,1,2,2-Tetrachloroethane	59	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3511.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	150	J
108-88-3	Toluene	180000 ~~37000~~	~~E~~
108-90-7	Chlorobenzene	59	U J
100-41-4	Ethylbenzene	110000 ~~23000~~	~~E~~
100-42-5	Styrene	140000 ~~16000~~	~~E~~

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3511.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	~~29000~~ 210000	~~E~~
95-47-6	o-Xylene	~~17000~~ 100000	~~E~~
106-93-4	1,2-Dibromoethane	59	U J
98-82-8	Isopropylbenzene	1700	J
541-73-1	1,3-Dichlorobenzene	59	U J
106-46-7	1,4-Dichlorobenzene	59	U
95-50-1	1,2-Dichlorobenzene	59	U
96-12-8	1,2-Dibromo-3-chloropropane	59	U
120-82-1	1,2,4-Trichlorobenzene	59	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66794.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	15000	U
75-71-8	Dichlorodifluoromethane	15000	U
74-83-9	Bromomethane	15000	U
75-01-4	Vinyl chloride	15000	U
75-00-3	Chloroethane	15000	U
75-09-2	Methylene chloride	15000	U
67-64-1	Acetone	73000	U
75-69-4	Trichlorofluoromethane	15000	U
75-35-4	1,1-Dichloroethene	15000	U
75-15-0	Carbon disulfide	15000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15000	U
75-34-3	1,1-Dichloroethane	15000	U
67-66-3	Chloroform	15000	U
107-06-2	1,2-Dichloroethane	15000	U
79-20-9	Methyl Acetate	15000	U
78-93-3	2-Butanone	73000	U
71-55-6	1,1,1-Trichloroethane	15000	U
156-60-5	trans-1,2-Dichloroethene	15000	U
56-23-5	Carbon tetrachloride	15000	U
1634-04-4	Methyl tert-butyl ether	15000	U
75-27-4	Bromodichloromethane	15000	U
78-87-5	1,2-Dichloropropane	15000	U
156-59-2	cis-1,2-Dichloroethene	15000	U
10061-01-5	cis-1,3-Dichloropropene	15000	U
79-01-6	Trichloroethene	15000	U
124-48-1	Dibromochloromethane	15000	U
79-00-5	1,1,2-Trichloroethane	15000	U
71-43-2	Benzene	52000	D
110-82-7	Cyclohexane	15000	U
10061-02-6	trans-1,3-Dichloropropene	15000	U
75-25-2	Bromoform	15000	U
108-10-1	4-Methyl-2-pentanone	73000	U
591-78-6	2-Hexanone	73000	U
127-18-4	Tetrachloroethene	15000	U
79-34-5	1,1,2,2-Tetrachloroethane	15000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66794.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	15000	U
108-88-3	Toluene	180000	D
108-90-7	Chlorobenzene	15000	U
100-41-4	Ethylbenzene	110000	D
100-42-5	Styrene	140000	D

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10(40'-41.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66794.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 14.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	210000	~~D~~
95-47-6	o-Xylene	100000	~~D~~
106-93-4	1,2-Dibromoethane	15000	U J
98-82-8	Isopropylbenzene	15000	U
541-73-1	1,3-Dichlorobenzene	15000	U
106-46-7	1,4-Dichlorobenzene	15000	U
95-50-1	1,2-Dichlorobenzene	15000	U
96-12-8	1,2-Dibromo-3-chloropropane	15000	U
120-82-1	1,2,4-Trichlorobenzene	15000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3499.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 12.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U J
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U J
75-09-2	Methylene chloride	17	~~B~~ U
67-64-1	Acetone	27 ~~11~~	~~BJ~~ U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	37	
110-82-7	Cyclohexane	6	U J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3499.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 12.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	UJ
108-88-3	Toluene	33	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	19	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3499.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 12.8 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	26	
95-47-6	o-Xylene	11	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U J
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3577.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.3 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U J
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	16	~~B~~ U
67-64-1	Acetone	30 ~~10~~	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3577.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.3 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3577.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.3 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.0)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3578.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 12.9 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	UJ
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	15	~~B~~ U
67-64-1	Acetone	29 ~~12~~	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.0)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3578.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 12.9 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.0)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3578.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 12.9 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3584.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 21 Date Analyzed: 10/13/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	17	~~B~~ UJ
67-64-1	Acetone	32 ~~12~~	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	UJ
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	32	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	32	U
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3584.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 21 Date Analyzed: 10/13/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3(7.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3584.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 21 Date Analyzed: 10/13/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (3-4)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34415.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 22.2 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /20X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	2300	
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	700	
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1'-Biphenyl	230	J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	490	
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	900	
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	1100	

1D

EPA SAMPLE NO.

SB-15 (3-4)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34415.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 22.2 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	1600	
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	8800 ~~8400~~	~~E~~
120-12-7	Anthracene	2000	
86-74-8	Carbazole	1000	
84-74-2	Di-n-butyl phthalate	~~360~~ 410	~~J~~ U
206-44-0	Fluoranthene	14000 ~~12000~~	~~E~~
129-00-0	Pyrene	10000 ~~11000~~	~~E~~
85-68-7	Butyl benzyl phthalate	65000 ~~32000~~	~~E~~
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	6000	
218-01-9	Chrysene	5200	
117-81-7	Bis(2-ethylhexyl)phthalate	12000 ~~9100~~	~~E~~
117-84-0	Di-n-octyl phthalate	600	
205-99-2	Benzo(b)fluoranthene	8200	~~E~~ J
207-08-9	Benzo(k)fluoranthene	1900	
50-32-8	Benzo(a)pyrene	4800	
193-39-5	Indeno(1,2,3-cd)pyrene	1500	
53-70-3	Dibenzo(a,h)anthracene	540	
191-24-2	Benzo(g,h,i)perylene	1100	

50 @ 20x

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (3-4)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34772.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 22.2 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/21/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	8500	U
100-52-7	Benzaldehyde	8500	U
108-95-2	Phenol	8500	U
111-44-4	Bis(2-chloroethyl)ether	8500	U
95-57-8	2-Chlorophenol	8500	U
95-48-7	2-Methylphenol	8500	U
108-60-1	2,2´-oxybis(1-chloropropane)	8500	U
98-86-2	Acetophenone	8500	U
621-64-7	N-Nitroso-di-n-propylamine	8500	U
67-72-1	Hexachloroethane	8500	U
98-95-3	Nitrobenzene	8500	U
78-59-1	Isophorone	8500	U
88-75-5	2-Nitrophenol	8500	U
105-67-9	2,4-Dimethylphenol	8500	U
111-91-1	Bis(2-chloroethoxy)methane	8500	U
120-83-2	2,4-Dichlorophenol	8500	U
91-20-3	Naphthalene	2400	DJ
106-47-8	4-Chloroaniline	8500	U
87-68-3	Hexachlorobutadiene	8500	U
105-60-2	Caprolactam	8500	U
59-50-7	4-Chloro-3-methylphenol	8500	U
91-57-6	2-Methylnaphthalene	8500	U
77-47-4	Hexachlorocyclopentadiene	8500	U
88-06-2	2,4,6-Trichlorophenol	8500	U
95-95-4	2,4,5-Trichlorophenol	8500	U
92-52-4	1,1´-Biphenyl	8500	U
91-58-7	2-Chloronaphthalene	8500	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethylphthalate	8500	U
606-20-2	2,6-Dinitrotoluene	8500	U
208-96-8	Acenaphthylene	8500	U
99-09-2	3-Nitroaniline	8500	U
83-32-9	Acenaphthene	8500	U
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	8500	U

1D

EPA SAMPLE NO.

SB-15 (3-4)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34772.D

Level: (low/med) LOW Date Received: 09/23/09

% Moisture: 22.2 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/21/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	8500	U
84-66-2	Diethylphthalate	8500	U
86-73-7	Fluorene	8500	U
7005-72-3	4-Chlorophenyl-phenylether	8500	U
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-Nitrosodiphenylamine	8500	U
101-55-3	4-Bromophenyl-phenylether	8500	U
118-74-1	Hexachlorobenzene	8500	U
1912-24-9	Atrazine	8500	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	8800	D
120-12-7	Anthracene	2300	DJ
86-74-8	Carbazole	8500	U
84-74-2	Di-n-butyl phthalate	8500	U
206-44-0	Fluoranthene	14000	D
129-00-0	Pyrene	10000	D
85-68-7	Butyl benzyl phthalate	65000	D
91-94-1	3,3'-Dichlorobenzidine	8500	U
56-55-3	Benzo(a)anthracene	6600	DJ
218-01-9	Chrysene	5900	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	12000	D
117-84-0	Di-n-octyl phthalate	8500	U
205-99-2	Benzo(b)fluoranthene	6000	DJ
207-08-9	Benzo(k)fluoranthene	2500	DJ
50-32-8	Benzo(a)pyrene	4800	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	2900	DJ
53-70-3	Dibenzo(a,h)anthracene	8500	U
191-24-2	Benzo(g,h,i)perylene	2600	DJ

DO @ 20x like 1x limit.

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16 (2-3)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34416.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 5X

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	380	U J
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	1500	
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	370	J
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	370	J
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	280	J

1D

EPA SAMPLE NO.

SB-16 (2-3)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34416.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	380 U
84-66-2	Diethylphthalate	380 U
86-73-7	Fluorene	650
7005-72-3	4-Chlorophenyl-phenylether	380 U
100-01-6	4-Nitroaniline	380 U
534-52-1	4,6-Dinitro-2-methylphenol	380 U
86-30-6	N-Nitrosodiphenylamine	380 U
101-55-3	4-Bromophenyl-phenylether	380 U
118-74-1	Hexachlorobenzene	380 U
1912-24-9	Atrazine	380 U
87-86-5	Pentachlorophenol	380 U
85-01-8	Phenanthrene	5400
120-12-7	Anthracene	1500
86-74-8	Carbazole	350 J
84-74-2	Di-n-butyl phthalate	~~110~~ 380 ~~J~~ U
206-44-0	Fluoranthene	16000 ~~11000~~ ~~B~~
129-00-0	Pyrene	14000 ~~9900~~ ~~B~~
85-68-7	Butyl benzyl phthalate	470
91-94-1	3,3'-Dichlorobenzidine	380 U
56-55-3	Benzo(a)anthracene	5400
218-01-9	Chrysene	5000
117-81-7	Bis(2-ethylhexyl)phthalate	3200
117-84-0	Di-n-octyl phthalate	100 J
205-99-2	Benzo(b)fluoranthene	7400 ~~6600~~ ~~B~~
207-08-9	Benzo(k)fluoranthene	2300
50-32-8	Benzo(a)pyrene	4800
193-39-5	Indeno(1,2,3-cd)pyrene	1200
53-70-3	Dibenzo(a,h)anthracene	420
191-24-2	Benzo(g,h,i)perylene	1000

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16 (2-3)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34473.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	1900 U
100-52-7	Benzaldehyde	1900 U
108-95-2	Phenol	1900 U
111-44-4	Bis(2-chloroethyl)ether	1900 U
95-57-8	2-Chlorophenol	1900 U
95-48-7	2-Methylphenol	1900 U
108-60-1	2,2'-oxybis(1-chloropropane)	1900 U
98-86-2	Acetophenone	1900 U
621-64-7	N-Nitroso-di-n-propylamine	1900 U
67-72-1	Hexachloroethane	1900 U
98-95-3	Nitrobenzene	1900 U
78-59-1	Isophorone	1900 U
88-75-5	2-Nitrophenol	1900 U
105-67-9	2,4-Dimethylphenol	1900 U
111-91-1	Bis(2-chloroethoxy)methane	1900 U
120-83-2	2,4-Dichlorophenol	1900 U
91-20-3	Naphthalene	2100 D
106-47-8	4-Chloroaniline	1900 U
87-68-3	Hexachlorobutadiene	1900 U
105-60-2	Caprolactam	1900 U
59-50-7	4-Chloro-3-methylphenol	1900 U
91-57-6	2-Methylnaphthalene	1900 U
77-47-4	Hexachlorocyclopentadiene	1900 U
88-06-2	2,4,6-Trichlorophenol	1900 U
95-95-4	2,4,5-Trichlorophenol	1900 U
92-52-4	1,1'-Biphenyl	1900 U
91-58-7	2-Chloronaphthalene	1900 U
88-74-4	2-Nitroaniline	1900 U
131-11-3	Dimethylphthalate	1900 U
606-20-2	2,6-Dinitrotoluene	1900 U
208-96-8	Acenaphthylene	490 DJ
99-09-2	3-Nitroaniline	1900 U
83-32-9	Acenaphthene	510 DJ
51-28-5	2,4-Dinitrophenol	1900 U
100-02-7	4-Nitrophenol	1900 U
132-64-9	Dibenzofuran	1900 U

1D

EPA SAMPLE NO.

SB-16 (2-3)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34473.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	1900 U
84-66-2	Diethylphthalate	1900 U
86-73-7	Fluorene	860 DJ
7005-72-3	4-Chlorophenyl-phenylether	1900 U
100-01-6	4-Nitroaniline	1900 U
534-52-1	4,6-Dinitro-2-methylphenol	1900 U
86-30-6	N-Nitrosodiphenylamine	1900 U
101-55-3	4-Bromophenyl-phenylether	1900 U
118-74-1	Hexachlorobenzene	1900 U
1912-24-9	Atrazine	1900 U
87-86-5	Pentachlorophenol	1900 U
85-01-8	Phenanthrene	7300 D
120-12-7	Anthracene	2000 D
86-74-8	Carbazole	470 DJ
84-74-2	Di-n-butyl phthalate	1900 U
206-44-0	Fluoranthene	16000 D
129-00-0	Pyrene	14000 D
85-68-7	Butyl benzyl phthalate	560 DJ
91-94-1	3,3'-Dichlorobenzidine	1900 U
56-55-3	Benzo(a)anthracene	8500 D
218-01-9	Chrysene	7000 D
117-81-7	Bis(2-ethylhexyl)phthalate	4100 D
117-84-0	Di-n-octyl phthalate	1900 U
205-99-2	Benzo(b)fluoranthene	7900 D
207-08-9	Benzo(k)fluoranthene	3200 D
50-32-8	Benzo(a)pyrene	6800 D
193-39-5	Indeno(1,2,3-cd)pyrene	2300 D
53-70-3	Dibenzo(a,h)anthracene	780 DJ
191-24-2	Benzo(g,h,i)perylene	2000 D

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (4-5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34417.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20 X

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	480	
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	160	J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	970	
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	1500	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	1600	

1D

EPA SAMPLE NO.

SB-18 (4-5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34417.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	390 U
84-66-2	Diethylphthalate	390 U
86-73-7	Fluorene	3500
7005-72-3	4-Chlorophenyl-phenylether	390 U
100-01-6	4-Nitroaniline	390 U
534-52-1	4,6-Dinitro-2-methylphenol	390 U
86-30-6	N-Nitrosodiphenylamine	390 U
101-55-3	4-Bromophenyl-phenylether	390 U
118-74-1	Hexachlorobenzene	390 U
1912-24-9	Atrazine	390 U
87-86-5	Pentachlorophenol	390 U
85-01-8	Phenanthrene	41000 ~~27000~~ ~~E~~
120-12-7	Anthracene	11000 ~~7200~~ ~~E~~
86-74-8	Carbazole	2700
84-74-2	Di-n-butyl phthalate	~~200~~ 390 ~~J~~ U
206-44-0	Fluoranthene	71000 ~~26000~~ ~~E~~
129-00-0	Pyrene	56000 ~~39000~~ ~~E~~
85-68-7	Butyl benzyl phthalate	390 U
91-94-1	3,3'-Dichlorobenzidine	390 U
56-55-3	Benzo(a)anthracene	31000 ~~23000~~ ~~E~~
218-01-9	Chrysene	28000 ~~12000~~ ~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	21000 ~~8900~~ ~~E~~
117-84-0	Di-n-octyl phthalate	1300 J
205-99-2	Benzo(b)fluoranthene	29000 ~~18000~~ ~~E~~
207-08-9	Benzo(k)fluoranthene	11000 ~~6600~~ ~~E~~
50-32-8	Benzo(a)pyrene	24000 ~~13000~~ ~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	3700 J
53-70-3	Dibenzo(a,h)anthracene	1300 J
191-24-2	Benzo(g,h,i)perylene	3100 J

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (4-5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/07/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	7800 U
100-52-7	Benzaldehyde	7800 U
108-95-2	Phenol	7800 U
111-44-4	Bis(2-chloroethyl)ether	7800 U
95-57-8	2-Chlorophenol	7800 U
95-48-7	2-Methylphenol	7800 U
108-60-1	2,2'-oxybis(1-chloropropane)	7800 U
98-86-2	Acetophenone	7800 U
621-64-7	N-Nitroso-di-n-propylamine	7800 U
67-72-1	Hexachloroethane	7800 U
98-95-3	Nitrobenzene	7800 U
78-59-1	Isophorone	7800 U
88-75-5	2-Nitrophenol	7800 U
105-67-9	2,4-Dimethylphenol	7800 U
111-91-1	Bis(2-chloroethoxy)methane	7800 U
120-83-2	2,4-Dichlorophenol	7800 U
91-20-3	Naphthalene	1800 DJ
106-47-8	4-Chloroaniline	7800 U
87-68-3	Hexachlorobutadiene	7800 U
105-60-2	Caprolactam	7800 U
59-50-7	4-Chloro-3-methylphenol	7800 U
91-57-6	2-Methylnaphthalene	7800 U
77-47-4	Hexachlorocyclopentadiene	7800 U
88-06-2	2,4,6-Trichlorophenol	7800 U
95-95-4	2,4,5-Trichlorophenol	7800 U
92-52-4	1,1'-Biphenyl	7800 U
91-58-7	2-Chloronaphthalene	7800 U
88-74-4	2-Nitroaniline	7800 U
131-11-3	Dimethylphthalate	7800 U
606-20-2	2,6-Dinitrotoluene	7800 U
208-96-8	Acenaphthylene	7800 U
99-09-2	3-Nitroaniline	2200 DJ
83-32-9	Acenaphthene	7800 U
51-28-5	2,4-Dinitrophenol	7800 U
100-02-7	4-Nitrophenol	2300 DJ
132-64-9	Dibenzofuran	

1D

EPA SAMPLE NO.

SB-18 (4-5)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34474.D

Level: (low/med) LOW Date Received: 09/25/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 09/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/07/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	7800 U
84-66-2	Diethylphthalate	7800 U
86-73-7	Fluorene	4600 DJ
7005-72-3	4-Chlorophenyl-phenylether	7800 U
100-01-6	4-Nitroaniline	7800 U
534-52-1	4,6-Dinitro-2-methylphenol	7800 U
86-30-6	N-Nitrosodiphenylamine	7800 U
101-55-3	4-Bromophenyl-phenylether	7800 U
118-74-1	Hexachlorobenzene	7800 U
1912-24-9	Atrazine	7800 U
87-86-5	Pentachlorophenol	41000 D
85-01-8	Phenanthrene	11000 D
120-12-7	Anthracene	4000 DJ
86-74-8	Carbazole	7800 U
84-74-2	Di-n-butyl phthalate	71000 D
206-44-0	Fluoranthene	56000 D
129-00-0	Pyrene	7800 U
85-68-7	Butyl benzyl phthalate	7800 U
91-94-1	3,3'-Dichlorobenzidine	31000 D
56-55-3	Benzo(a)anthracene	28000 D
218-01-9	Chrysene	21000 D
117-81-7	Bis(2-ethylhexyl)phthalate	7800 U
117-84-0	Di-n-octyl phthalate	29000 D
205-99-2	Benzo(b)fluoranthene	11000 D
207-08-9	Benzo(k)fluoranthene	24000 D
50-32-8	Benzo(a)pyrene	8800 D
193-39-5	Indeno(1,2,3-cd)pyrene	3000 DJ
53-70-3	Dibenzo(a,h)anthracene	7700 DJ
191-24-2	Benzo(g,h,i)perylene	

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34578.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 18.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	95 J
100-52-7	Benzaldehyde	400 U J
108-95-2	Phenol	400 U
111-44-4	Bis(2-chloroethyl)ether	400 U
95-57-8	2-Chlorophenol	400 U
95-48-7	2-Methylphenol	85 J
108-60-1	2,2´-oxybis(1-chloropropane)	400 U
98-86-2	Acetophenone	400 U
621-64-7	N-Nitroso-di-n-propylamine	400 U
67-72-1	Hexachloroethane	400 U
98-95-3	Nitrobenzene	400 U
78-59-1	Isophorone	400 U
88-75-5	2-Nitrophenol	400 U
105-67-9	2,4-Dimethylphenol	400 U
111-91-1	Bis(2-chloroethoxy)methane	400 U
120-83-2	2,4-Dichlorophenol	400 U
91-20-3	Naphthalene	15000 ~~12000~~ ~~E~~
106-47-8	4-Chloroaniline	400 U
87-68-3	Hexachlorobutadiene	400 U
105-60-2	Caprolactam	400 U
59-50-7	4-Chloro-3-methylphenol	400 U
91-57-6	2-Methylnaphthalene	2000
77-47-4	Hexachlorocyclopentadiene	400 U
88-06-2	2,4,6-Trichlorophenol	400 U
95-95-4	2,4,5-Trichlorophenol	400 U
92-52-4	1,1´-Biphenyl	480
91-58-7	2-Chloronaphthalene	400 U
88-74-4	2-Nitroaniline	400 U
131-11-3	Dimethylphthalate	400 U
606-20-2	2,6-Dinitrotoluene	400 U
208-96-8	Acenaphthylene	910
99-09-2	3-Nitroaniline	400 U
83-32-9	Acenaphthene	980
51-28-5	2,4-Dinitrophenol	400 U
100-02-7	4-Nitrophenol	400 U
132-64-9	Dibenzofuran	1700

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34578.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 18.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	400 U
84-66-2	Diethylphthalate	400 U
86-73-7	Fluorene	2800
7005-72-3	4-Chlorophenyl-phenylether	400 U
100-01-6	4-Nitroaniline	400 U
534-52-1	4,6-Dinitro-2-methylphenol	400 U
86-30-6	N-Nitrosodiphenylamine	400 U
101-55-3	4-Bromophenyl-phenylether	400 U
118-74-1	Hexachlorobenzene	400 U
1912-24-9	Atrazine	400 U
87-86-5	Pentachlorophenol	400 U
85-01-8	Phenanthrene	11000 ~~14000~~ ~~E~~
120-12-7	Anthracene	3200
86-74-8	Carbazole	1400
84-74-2	Di-n-butyl phthalate	~~260~~ 400 ~~J~~ U
206-44-0	Fluoranthene	18000 ~~13000~~ ~~E~~
129-00-0	Pyrene	14000 ~~13000~~ ~~E~~
85-68-7	Butyl benzyl phthalate	15000 ~~13000~~ ~~E~~
91-94-1	3,3'-Dichlorobenzidine	400 U
56-55-3	Benzo(a)anthracene	6300
218-01-9	Chrysene	5500
117-81-7	Bis(2-ethylhexyl)phthalate	11000 ~~10000~~ ~~E~~
117-84-0	Di-n-octyl phthalate	470 J
205-99-2	Benzo(b)fluoranthene	6300 J
207-08-9	Benzo(k)fluoranthene	2500 J
50-32-8	Benzo(a)pyrene	4600 J
193-39-5	Indeno(1,2,3-cd)pyrene	1200 J
53-70-3	Dibenzo(a,h)anthracene	430 J
191-24-2	Benzo(g,h,i)perylene	1100 J

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34600.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 18.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	4000	U
100-52-7	Benzaldehyde	4000	U
108-95-2	Phenol	4000	U
111-44-4	Bis(2-chloroethyl)ether	4000	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2´-oxybis(1-chloropropane)	4000	U
98-86-2	Acetophenone	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	15000	D
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	4000	U
59-50-7	4-Chloro-3-methylphenol	2300	DJ
91-57-6	2-Methylnaphthalene	4000	U
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1´-Biphenyl	4000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	1000	DJ
208-96-8	Acenaphthylene	4000	U
99-09-2	3-Nitroaniline	1100	DJ
83-32-9	Acenaphthene	4000	U
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	2000	DJ
132-64-9	Dibenzofuran		

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34600.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 18.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
86-73-7	Fluorene	3000	DJ
7005-72-3	4-Chlorophenyl-phenylether	4000	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	4000	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	17000	D
120-12-7	Anthracene	4000	D
86-74-8	Carbazole	1700	DJ
84-74-2	Di-n-butyl phthalate	4000	U
206-44-0	Fluoranthene	18000	D
129-00-0	Pyrene	14000	D
85-68-7	Butyl benzyl phthalate	15000	D
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	7200	D
218-01-9	Chrysene	6800	D
117-81-7	Bis(2-ethylhexyl)phthalate	11000	D
117-84-0	Di-n-octyl phthalate	4000	U
205-99-2	Benzo(b)fluoranthene	5900	D
207-08-9	Benzo(k)fluoranthene	2100	DJ
50-32-8	Benzo(a)pyrene	4900	D
193-39-5	Indeno(1,2,3-cd)pyrene	2400	DJ
53-70-3	Dibenzo(a,h)anthracene	4000	U
191-24-2	Benzo(g,h,i)perylene	2400	DJ

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (20'-21.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34544.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 49.1 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	650 U
100-52-7	Benzaldehyde	650 U J
108-95-2	Phenol	650 U
111-44-4	Bis(2-chloroethyl)ether	650 U
95-57-8	2-Chlorophenol	650 U
95-48-7	2-Methylphenol	650 U
108-60-1	2,2'-oxybis(1-chloropropane)	650 U
98-86-2	Acetophenone	650 U
621-64-7	N-Nitroso-di-n-propylamine	650 U
67-72-1	Hexachloroethane	650 U
98-95-3	Nitrobenzene	650 U
78-59-1	Isophorone	650 U
88-75-5	2-Nitrophenol	650 U
105-67-9	2,4-Dimethylphenol	650 U
111-91-1	Bis(2-chloroethoxy)methane	650 U
120-83-2	2,4-Dichlorophenol	650 U
91-20-3	Naphthalene	650 U
106-47-8	4-Chloroaniline	650 U
87-68-3	Hexachlorobutadiene	650 U
105-60-2	Caprolactam	650 U
59-50-7	4-Chloro-3-methylphenol	650 U
91-57-6	2-Methylnaphthalene	650 U
77-47-4	Hexachlorocyclopentadiene	650 U
88-06-2	2,4,6-Trichlorophenol	650 U
95-95-4	2,4,5-Trichlorophenol	650 U
92-52-4	1,1'-Biphenyl	650 U
91-58-7	2-Chloronaphthalene	650 U
88-74-4	2-Nitroaniline	650 U
131-11-3	Dimethylphthalate	650 U
606-20-2	2,6-Dinitrotoluene	650 U
208-96-8	Acenaphthylene	650 U
99-09-2	3-Nitroaniline	650 U
83-32-9	Acenaphthene	650 U
51-28-5	2,4-Dinitrophenol	650 U
100-02-7	4-Nitrophenol	650 U
132-64-9	Dibenzofuran	650 U

1D

EPA SAMPLE NO.

SB-9 (20'-21.5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34544.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 49.1 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	650	U
84-66-2	Diethylphthalate	650	U
86-73-7	Fluorene	650	U
7005-72-3	4-Chlorophenyl-phenylether	650	U
100-01-6	4-Nitroaniline	650	U
534-52-1	4,6-Dinitro-2-methylphenol	650	U
86-30-6	N-Nitrosodiphenylamine	650	U
101-55-3	4-Bromophenyl-phenylether	650	U
118-74-1	Hexachlorobenzene	650	U
1912-24-9	Atrazine	650	U
87-86-5	Pentachlorophenol	650	U
85-01-8	Phenanthrene	650	U
120-12-7	Anthracene	650	U
86-74-8	Carbazole	650	U
84-74-2	Di-n-butyl phthalate	650	U
206-44-0	Fluoranthene	650	U
129-00-0	Pyrene	650	U
85-68-7	Butyl benzyl phthalate	650	U
91-94-1	3,3´-Dichlorobenzidine	650	U
56-55-3	Benzo(a)anthracene	650	U
218-01-9	Chrysene	650	U
117-81-7	Bis(2-ethylhexyl)phthalate	650	U
117-84-0	Di-n-octyl phthalate	650	U
205-99-2	Benzo(b)fluoranthene	650	U
207-08-9	Benzo(k)fluoranthene	650	U
50-32-8	Benzo(a)pyrene	650	U
193-39-5	Indeno(1,2,3-cd)pyrene	650	U
53-70-3	Dibenzo(a,h)anthracene	650	U
191-24-2	Benzo(g,h,i)perylene	650	U

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-9 (36'-38')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34577.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 25X DC

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	380	U J
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	27000 ~~20000~~	~~E~~
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	43000 ~~39000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1'-Biphenyl	1300	
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	3600	
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	34000 ~~26000~~	~~E~~
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	1400	

1D

EPA SAMPLE NO.

SB-9 (36'-38')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34577.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	41000 ~~17000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	86000 ~~53000~~	~~E~~
120-12-7	Anthracene	21000 ~~16000~~	~~E~~
86-74-8	Carbazole	380	U
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	47000 ~~17000~~	~~E~~
129-00-0	Pyrene	41000 ~~28000~~	~~E~~
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	16000 ~~14000~~	~~E~~
218-01-9	Chrysene	14000 ~~9000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	7400 ~~6900~~	~~E~~ J
207-08-9	Benzo(k)fluoranthene	3200	
50-32-8	Benzo(a)pyrene	10000 ~~9400~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	600	
191-24-2	Benzo(g,h,i)perylene	1500	

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (36'-38')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34601.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	9500 U
100-52-7	Benzaldehyde	9500 U
108-95-2	Phenol	9500 U
111-44-4	Bis(2-chloroethyl)ether	9500 U
95-57-8	2-Chlorophenol	9500 U
95-48-7	2-Methylphenol	9500 U
108-60-1	2,2´-oxybis(1-chloropropane)	9500 U
98-86-2	Acetophenone	9500 U
621-64-7	N-Nitroso-di-n-propylamine	9500 U
67-72-1	Hexachloroethane	9500 U
98-95-3	Nitrobenzene	9500 U
78-59-1	Isophorone	9500 U
88-75-5	2-Nitrophenol	9500 U
105-67-9	2,4-Dimethylphenol	9500 U
111-91-1	Bis(2-chloroethoxy)methane	9500 U
120-83-2	2,4-Dichlorophenol	27000 D
91-20-3	Naphthalene	9500 U
106-47-8	4-Chloroaniline	9500 U
87-68-3	Hexachlorobutadiene	9500 U
105-60-2	Caprolactam	9500 U
59-50-7	4-Chloro-3-methylphenol	63000 D
91-57-6	2-Methylnaphthalene	9500 U
77-47-4	Hexachlorocyclopentadiene	9500 U
88-06-2	2,4,6-Trichlorophenol	9500 U
95-95-4	2,4,5-Trichlorophenol	9500 U
92-52-4	1,1´-Biphenyl	9500 U
91-58-7	2-Chloronaphthalene	9500 U
88-74-4	2-Nitroaniline	9500 U
131-11-3	Dimethylphthalate	9500 U
606-20-2	2,6-Dinitrotoluene	3900 DJ
208-96-8	Acenaphthylene	9500 U
99-09-2	3-Nitroaniline	34000 D
83-32-9	Acenaphthene	9500 U
51-28-5	2,4-Dinitrophenol	9500 U
100-02-7	4-Nitrophenol	9500 U
132-64-9	Dibenzofuran	9500 U

1D

EPA SAMPLE NO.

SB-9 (36'-38')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34601.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	9500 U
84-66-2	Diethylphthalate	9500 U
86-73-7	Fluorene	21000 D
7005-72-3	4-Chlorophenyl-phenylether	9500 U
100-01-6	4-Nitroaniline	9500 U
534-52-1	4,6-Dinitro-2-methylphenol	9500 U
86-30-6	N-Nitrosodiphenylamine	9500 U
101-55-3	4-Bromophenyl-phenylether	9500 U
118-74-1	Hexachlorobenzene	9500 U
1912-24-9	Atrazine	9500 U
87-86-5	Pentachlorophenol	9500 U
85-01-8	Phenanthrene	86000 D
120-12-7	Anthracene	21000 D
86-74-8	Carbazole	9500 U
84-74-2	Di-n-butyl phthalate	9500 U
206-44-0	Fluoranthene	27000 D
129-00-0	Pyrene	41000 D
85-68-7	Butyl benzyl phthalate	9500 U
91-94-1	3,3'-Dichlorobenzidine	9500 U
56-55-3	Benzo(a)anthracene	16000 D
218-01-9	Chrysene	14000 D
117-81-7	Bis(2-ethylhexyl)phthalate	9500 U
117-84-0	Di-n-octyl phthalate	9500 U
205-99-2	Benzo(b)fluoranthene	7400 DJ
207-08-9	Benzo(k)fluoranthene	9500 U
50-32-8	Benzo(a)pyrene	10000 D
193-39-5	Indeno(1,2,3-cd)pyrene	2900 DJ
53-70-3	Dibenzo(a,h)anthracene	9500 U
191-24-2	Benzo(g,h,i)perylene	3900 DJ

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (40'-42')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34545.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 25.9 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	450	U
100-52-7	Benzaldehyde	450	UJ
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2´-oxybis(1-chloropropane)	450	U
98-86-2	Acetophenone	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	450	U
92-52-4	1,1´-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	450	U
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	450	U
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	450	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (40'-42')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34545.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 25.9 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butyl phthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butyl benzyl phthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	Bis(2-ethylhexyl)phthalate	450 ~~100~~	~~J~~ U
117-84-0	Di-n-octyl phthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (3'-4')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34579.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /4X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	450	U
100-52-7	Benzaldehyde	450	U J
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2´-oxybis(1-chloropropane)	450	U
98-86-2	Acetophenone	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	1300	
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	360	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	450	U
92-52-4	1,1´-Biphenyl	140	J
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	160	J
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	780	
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	540	

1D

EPA SAMPLE NO.

SB-10 (3'-4')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34579.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	1200	
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	7100	
120-12-7	Anthracene	1600	
86-74-8	Carbazole	580	
84-74-2	Di-n-butyl phthalate	~~140~~ 450	~~J~~ U
206-44-0	Fluoranthene	6700	
129-00-0	Pyrene	6700	
85-68-7	Butyl benzyl phthalate	2600	
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	3200	
218-01-9	Chrysene	2800	
117-81-7	Bis(2-ethylhexyl)phthalate	10000 ~~9700~~	~~E~~
117-84-0	Di-n-octyl phthalate	220	J
205-99-2	Benzo(b)fluoranthene	3400	J
207-08-9	Benzo(k)fluoranthene	1000	J
50-32-8	Benzo(a)pyrene	2500	J
193-39-5	Indeno(1,2,3-cd)pyrene	620	J
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(g,h,i)perylene	630	J

(1) Cannot be separated from Diphenylamine

15

1C

EPA SAMPLE NO.

SB-10 (3'-4')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34602.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	1800 U
100-52-7	Benzaldehyde	1800 U
108-95-2	Phenol	1800 U
111-44-4	Bis(2-chloroethyl)ether	1800 U
95-57-8	2-Chlorophenol	1800 U
95-48-7	2-Methylphenol	1800 U
108-60-1	2,2'-oxybis(1-chloropropane)	1800 U
98-86-2	Acetophenone	1800 U
621-64-7	N-Nitroso-di-n-propylamine	1800 U
67-72-1	Hexachloroethane	1800 U
98-95-3	Nitrobenzene	1800 U
78-59-1	Isophorone	1800 U
88-75-5	2-Nitrophenol	1800 U
105-67-9	2,4-Dimethylphenol	1800 U
111-91-1	Bis(2-chloroethoxy)methane	1800 U
120-83-2	2,4-Dichlorophenol	1800 U
91-20-3	Naphthalene	1400 DJ
106-47-8	4-Chloroaniline	1800 U
87-68-3	Hexachlorobutadiene	1800 U
105-60-2	Caprolactam	1800 U
59-50-7	4-Chloro-3-methylphenol	1800 U
91-57-6	2-Methylnaphthalene	400 DJ
77-47-4	Hexachlorocyclopentadiene	1800 U
88-06-2	2,4,6-Trichlorophenol	1800 U
95-95-4	2,4,5-Trichlorophenol	1800 U
92-52-4	1,1'-Biphenyl	1800 U
91-58-7	2-Chloronaphthalene	1800 U
88-74-4	2-Nitroaniline	1800 U
131-11-3	Dimethylphthalate	1800 U
606-20-2	2,6-Dinitrotoluene	1800 U
208-96-8	Acenaphthylene	1800 U
99-09-2	3-Nitroaniline	1800 U
83-32-9	Acenaphthene	840 DJ
51-28-5	2,4-Dinitrophenol	1800 U
100-02-7	4-Nitrophenol	1800 U
132-64-9	Dibenzofuran	580 DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (3'-4')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34602.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
86-73-7	Fluorene	1300	DJ
7005-72-3	4-Chlorophenyl-phenylether	1800	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
1912-24-9	Atrazine	1800	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	7600	D
120-12-7	Anthracene	1800	D
86-74-8	Carbazole	620	DJ
84-74-2	Di-n-butyl phthalate	1800	U
206-44-0	Fluoranthene	7700	D
129-00-0	Pyrene	6300	D
85-68-7	Butyl benzyl phthalate	2400	D
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	3500	D
218-01-9	Chrysene	3000	D
117-81-7	Bis(2-ethylhexyl)phthalate	10000	D
117-84-0	Di-n-octyl phthalate	1800	U
205-99-2	Benzo(b)fluoranthene	2700	D
207-08-9	Benzo(k)fluoranthene	1400	DJ
50-32-8	Benzo(a)pyrene	2600	D
193-39-5	Indeno(1,2,3-cd)pyrene	1100	DJ
53-70-3	Dibenzo(a,h)anthracene	380	DJ
191-24-2	Benzo(g,h,i)perylene	1200	DJ

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (48'-50')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34546.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	450	U
100-52-7	Benzaldehyde	450	U J
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-chloropropane)	450	U
98-86-2	Acetophenone	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	330	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	450	U
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	450	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	280	J
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	450	U
51-28-5	2,4-Dinitrophenol	450	U
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	450	U

1D

EPA SAMPLE NO.

SB-10 (48'-50')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34546.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 27.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/09/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	290	J
7005-72-3	4-Chlorophenyl-phenylether	450	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	290	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-butyl phthalate	450	U
206-44-0	Fluoranthene	490	
129-00-0	Pyrene	650	
85-68-7	Butyl benzyl phthalate	450	U
91-94-1	3,3´-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	280	J
218-01-9	Chrysene	230	J
117-81-7	Bis(2-ethylhexyl)phthalate	450 ~~120~~	~~J~~ U
117-84-0	Di-n-octyl phthalate	450	U
205-99-2	Benzo(b)fluoranthene	140	J
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	180	J
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (18'-24')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34683.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 /500X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	210000	
100-52-7	Benzaldehyde	20000	UJ
108-95-2	Phenol	240000	
111-44-4	Bis(2-chloroethyl)ether	20000	U
95-57-8	2-Chlorophenol	20000	U
95-48-7	2-Methylphenol	92000	
108-60-1	2,2´-oxybis(1-chloropropane)	20000	U
98-86-2	Acetophenone	20000	U
621-64-7	N-Nitroso-di-n-propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	69000	
111-91-1	Bis(2-chloroethoxy)methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
91-20-3	Naphthalene	16000000 ~~5900000~~	~~E~~
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
105-60-2	Caprolactam	20000	U
59-50-7	4-Chloro-3-methylphenol	20000	U
91-57-6	2-Methylnaphthalene	3600000 ~~2700000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	20000	U
92-52-4	1,1´-Biphenyl	330000	
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethylphthalate	20000	U
606-20-2	2,6-Dinitrotoluene	680000 20000	U
208-96-8	Acenaphthylene	~~590000~~	~~E~~ J
99-09-2	3-Nitroaniline	20000	U
83-32-9	Acenaphthene	140000	
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	1000000 ~~790000~~	~~E~~

1D

EPA SAMPLE NO.

SB-13 (18'-24')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34683.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
86-73-7	Fluorene	1600000 ~~1300000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	20000	U
100-01-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
1912-24-9	Atrazine	20000	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	5200000 ~~3100000~~	~~E~~
120-12-7	Anthracene	1800000 ~~1200000~~	~~E~~
86-74-8	Carbazole	570000 ~~420000~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	20000	U
206-44-0	Fluoranthene	2900000 ~~1600000~~	~~E~~
129-00-0	Pyrene	2200000 ~~1400000~~	~~E~~
85-68-7	Butyl benzyl phthalate	20000	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)anthracene	1100000 ~~780000~~	~~E~~
218-01-9	Chrysene	1000000 ~~610000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	20000	U
117-84-0	Di-n-octyl phthalate	20000	U J
205-99-2	Benzo(b)fluoranthene	760000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	190000	J
50-32-8	Benzo(a)pyrene	750000 ~~570000~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	120000	J
53-70-3	Dibenzo(a,h)anthracene	46000	J
191-24-2	Benzo(g,h,i)perylene	92000	J

(1) Cannot be separated from Diphenylamine

1D

EPA SAMPLE NO.

SB-13 (18'-24')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34673.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 2500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	1000000 U
84-66-2	Diethylphthalate	1000000 U
86-73-7	Fluorene	1600000 D
7005-72-3	4-Chlorophenyl-phenylether	1000000 U
100-01-6	4-Nitroaniline	1000000 U
534-52-1	4,6-Dinitro-2-methylphenol	1000000 U
86-30-6	N-Nitrosodiphenylamine	1000000 U
101-55-3	4-Bromophenyl-phenylether	1000000 U
118-74-1	Hexachlorobenzene	1000000 U
1912-24-9	Atrazine	1000000 U
87-86-5	Pentachlorophenol	1000000 U
85-01-8	Phenanthrene	5200000 D
120-12-7	Anthracene	1800000 D
86-74-8	Carbazole	570000 DJ
84-74-2	Di-n-butyl phthalate	1000000 U
206-44-0	Fluoranthene	2900000 D
129-00-0	Pyrene	2200000 D
85-68-7	Butyl benzyl phthalate	1000000 U
91-94-1	3,3'-Dichlorobenzidine	1000000 U
56-55-3	Benzo(a)anthracene	1100000 D
218-01-9	Chrysene	1000000 D
117-81-7	Bis(2-ethylhexyl)phthalate	1000000 U
117-84-0	Di-n-octyl phthalate	1000000 U
205-99-2	Benzo(b)fluoranthene	680000 DJ
207-08-9	Benzo(k)fluoranthene	430000 DJ
50-32-8	Benzo(a)pyrene	750000 DJ
193-39-5	Indeno(1,2,3-cd)pyrene	300000 DJ
53-70-3	Dibenzo(a,h)anthracene	1000000 U
191-24-2	Benzo(g,h,i)perylene	300000 DJ

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-13 (18'-24')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-007BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34673.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 2500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	280000	DJ
100-52-7	Benzaldehyde	1000000	U
108-95-2	Phenol	310000	DJ
111-44-4	Bis(2-chloroethyl)ether	1000000	U
95-57-8	2-Chlorophenol	1000000	U
95-48-7	2-Methylphenol	1000000	U
108-60-1	2,2'-oxybis(1-chloropropane)	1000000	U
98-86-2	Acetophenone	1000000	U
621-64-7	N-Nitroso-di-n-propylamine	1000000	U
67-72-1	Hexachloroethane	1000000	U
98-95-3	Nitrobenzene	1000000	U
78-59-1	Isophorone	1000000	U
88-75-5	2-Nitrophenol	1000000	U
105-67-9	2,4-Dimethylphenol	1000000	U
111-91-1	Bis(2-chloroethoxy)methane	1000000	U
120-83-2	2,4-Dichlorophenol	1000000	U
91-20-3	Naphthalene	16000000	D
106-47-8	4-Chloroaniline	1000000	U
87-68-3	Hexachlorobutadiene	1000000	U
105-60-2	Caprolactam	1000000	U
59-50-7	4-Chloro-3-methylphenol	1000000	U
91-57-6	2-Methylnaphthalene	3600000	D
77-47-4	Hexachlorocyclopentadiene	1000000	U
88-06-2	2,4,6-Trichlorophenol	1000000	U
95-95-4	2,4,5-Trichlorophenol	1000000	U
92-52-4	1,1'-Biphenyl	410000	DJ
91-58-7	2-Chloronaphthalene	1000000	U
88-74-4	2-Nitroaniline	1000000	U
131-11-3	Dimethylphthalate	1000000	U
606-20-2	2,6-Dinitrotoluene	1000000	U
208-96-8	Acenaphthylene	680000	DJ
99-09-2	3-Nitroaniline	1000000	U
83-32-9	Acenaphthene	1000000	U
51-28-5	2,4-Dinitrophenol	1000000	U
100-02-7	4-Nitrophenol	1000000	U
132-64-9	Dibenzofuran	1000000	D

1C

EPA SAMPLE NO.

SB-14 (1'-2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34574.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 24.8 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	440 U
100-52-7	Benzaldehyde	440 UJ
108-95-2	Phenol	110 J
111-44-4	Bis(2-chloroethyl)ether	440 U
95-57-8	2-Chlorophenol	440 U
95-48-7	2-Methylphenol	440 U
108-60-1	2,2´-oxybis(1-chloropropane)	440 U
98-86-2	Acetophenone	440 U
621-64-7	N-Nitroso-di-n-propylamine	440 U
67-72-1	Hexachloroethane	440 U
98-95-3	Nitrobenzene	440 U
78-59-1	Isophorone	440 U
88-75-5	2-Nitrophenol	440 U
105-67-9	2,4-Dimethylphenol	440 U
111-91-1	Bis(2-chloroethoxy)methane	440 U
120-83-2	2,4-Dichlorophenol	440 U
91-20-3	Naphthalene	3700
106-47-8	4-Chloroaniline	440 U
87-68-3	Hexachlorobutadiene	440 U
105-60-2	Caprolactam	440 U
59-50-7	4-Chloro-3-methylphenol	440 U
91-57-6	2-Methylnaphthalene	660
77-47-4	Hexachlorocyclopentadiene	440 U
88-06-2	2,4,6-Trichlorophenol	440 U
95-95-4	2,4,5-Trichlorophenol	440 U
92-52-4	1,1´-Biphenyl	440 U
91-58-7	2-Chloronaphthalene	440 U
88-74-4	2-Nitroaniline	440 U
131-11-3	Dimethylphthalate	440 U
606-20-2	2,6-Dinitrotoluene	440 U
208-96-8	Acenaphthylene	110 J
99-09-2	3-Nitroaniline	440 U
83-32-9	Acenaphthene	340 J
51-28-5	2,4-Dinitrophenol	440 U
100-02-7	4-Nitrophenol	440 U
132-64-9	Dibenzofuran	300 J

1D

EPA SAMPLE NO.

SB-14 (1'-2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34574.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 24.8 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	440 U
84-66-2	Diethylphthalate	440 U
86-73-7	Fluorene	560
7005-72-3	4-Chlorophenyl-phenylether	440 U
100-01-6	4-Nitroaniline	440 U
534-52-1	4,6-Dinitro-2-methylphenol	440 U
86-30-6	N-Nitrosodiphenylamine	440 U
101-55-3	4-Bromophenyl-phenylether	440 U
118-74-1	Hexachlorobenzene	440 U
1912-24-9	Atrazine	440 U
87-86-5	Pentachlorophenol	440 U
85-01-8	Phenanthrene	4700
120-12-7	Anthracene	1000
86-74-8	Carbazole	330 J
84-74-2	Di-n-butyl phthalate	440 ~~110~~ ~~J~~ U
206-44-0	Fluoranthene	5800
129-00-0	Pyrene	5000
85-68-7	Butyl benzyl phthalate	6700
91-94-1	3,3´-Dichlorobenzidine	440 U
56-55-3	Benzo(a)anthracene	2600
218-01-9	Chrysene	2200
117-81-7	Bis(2-ethylhexyl)phthalate	1600
117-84-0	Di-n-octyl phthalate	440 U
205-99-2	Benzo(b)fluoranthene	2300
207-08-9	Benzo(k)fluoranthene	1100
50-32-8	Benzo(a)pyrene	2000
193-39-5	Indeno(1,2,3-cd)pyrene	710
53-70-3	Dibenzo(a,h)anthracene	220 J
191-24-2	Benzo(g,h,i)perylene	660

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (11'-13')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34575.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 40 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	380 U
100-52-7	Benzaldehyde	380 U J
108-95-2	Phenol	380 U
111-44-4	Bis(2-chloroethyl)ether	380 U
95-57-8	2-Chlorophenol	380 U
95-48-7	2-Methylphenol	380 U
108-60-1	2,2'-oxybis(1-chloropropane)	380 U
98-86-2	Acetophenone	380 U
621-64-7	N-Nitroso-di-n-propylamine	380 U
67-72-1	Hexachloroethane	380 U
98-95-3	Nitrobenzene	380 U
78-59-1	Isophorone	380 U
88-75-5	2-Nitrophenol	380 U
105-67-9	2,4-Dimethylphenol	380 U
111-91-1	Bis(2-chloroethoxy)methane	380 U
120-83-2	2,4-Dichlorophenol	380 U
91-20-3	Naphthalene	79000 ~~48000~~ ~~E~~
106-47-8	4-Chloroaniline	380 U
87-68-3	Hexachlorobutadiene	380 U
105-60-2	Caprolactam	380 U
59-50-7	4-Chloro-3-methylphenol	380 U
91-57-6	2-Methylnaphthalene	140000 ~~77000~~ ~~E~~
77-47-4	Hexachlorocyclopentadiene	380 U
88-06-2	2,4,6-Trichlorophenol	380 U
95-95-4	2,4,5-Trichlorophenol	380 U
92-52-4	1,1'-Biphenyl	13000 ~~B~~ J
91-58-7	2-Chloronaphthalene	380 U
88-74-4	2-Nitroaniline	380 U
131-11-3	Dimethylphthalate	380 U
606-20-2	2,6-Dinitrotoluene	380 U
208-96-8	Acenaphthylene	64000 ~~49000~~ ~~E~~
99-09-2	3-Nitroaniline	380 U
83-32-9	Acenaphthene	5500
51-28-5	2,4-Dinitrophenol	380 U
100-02-7	4-Nitrophenol	380 U
132-64-9	Dibenzofuran	3300

1D

EPA SAMPLE NO.

SB-14B (11'-13')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34575.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	380 U
84-66-2	Diethylphthalate	380 U
86-73-7	Fluorene	31000 ~~27000~~ ~~E~~
7005-72-3	4-Chlorophenyl-phenylether	380 U
100-01-6	4-Nitroaniline	380 U
534-52-1	4,6-Dinitro-2-methylphenol	380 U
86-30-6	N-Nitrosodiphenylamine	380 U
101-55-3	4-Bromophenyl-phenylether	380 U
118-74-1	Hexachlorobenzene	380 U
1912-24-9	Atrazine	380 U
87-86-5	Pentachlorophenol	380 U
85-01-8	Phenanthrene	87000 ~~61000~~ ~~E~~
120-12-7	Anthracene	21000 ~~20000~~ ~~E~~
86-74-8	Carbazole	370 J
84-74-2	Di-n-butyl phthalate	380 U
206-44-0	Fluoranthene	24000 ~~18000~~ ~~E~~
129-00-0	Pyrene	35000 ~~26000~~ ~~E~~
85-68-7	Butyl benzyl phthalate	380 U
91-94-1	3,3'-Dichlorobenzidine	380 U
56-55-3	Benzo(a)anthracene	13000 ~~12000~~ ~~E~~ J
218-01-9	Chrysene	11000 ~~8500~~ ~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	~~140~~ 380 ~~J~~ U
117-84-0	Di-n-octyl phthalate	380 U
205-99-2	Benzo(b)fluoranthene	6600 ~~E~~ J
207-08-9	Benzo(k)fluoranthene	1900
50-32-8	Benzo(a)pyrene	8200 ~~8000~~ ~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	1200
53-70-3	Dibenzo(a,h)anthracene	530
191-24-2	Benzo(g,h,i)perylene	1200

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-14B (11'-13')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34604.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	15000 U
100-52-7	Benzaldehyde	15000 U
108-95-2	Phenol	15000 U
111-44-4	Bis(2-chloroethyl)ether	15000 U
95-57-8	2-Chlorophenol	15000 U
95-48-7	2-Methylphenol	15000 U
108-60-1	2,2´-oxybis(1-chloropropane)	15000 U
98-86-2	Acetophenone	15000 U
621-64-7	N-Nitroso-di-n-propylamine	15000 U
67-72-1	Hexachloroethane	15000 U
98-95-3	Nitrobenzene	15000 U
78-59-1	Isophorone	15000 U
88-75-5	2-Nitrophenol	15000 U
105-67-9	2,4-Dimethylphenol	15000 U
111-91-1	Bis(2-chloroethoxy)methane	15000 U
120-83-2	2,4-Dichlorophenol	79000 D
91-20-3	Naphthalene	15000 U
106-47-8	4-Chloroaniline	15000 U
87-68-3	Hexachlorobutadiene	15000 U
105-60-2	Caprolactam	15000 U
59-50-7	4-Chloro-3-methylphenol	140000 D
91-57-6	2-Methylnaphthalene	15000 U
77-47-4	Hexachlorocyclopentadiene	15000 U
88-06-2	2,4,6-Trichlorophenol	15000 U
95-95-4	2,4,5-Trichlorophenol	13000 DJ
92-52-4	1,1´-Biphenyl	15000 U
91-58-7	2-Chloronaphthalene	15000 U
88-74-4	2-Nitroaniline	15000 U
131-11-3	Dimethylphthalate	15000 U
606-20-2	2,6-Dinitrotoluene	64000 D
208-96-8	Acenaphthylene	15000 U
99-09-2	3-Nitroaniline	5500 DJ
83-32-9	Acenaphthene	15000 U
51-28-5	2,4-Dinitrophenol	15000 U
100-02-7	4-Nitrophenol	3600 DJ
132-64-9	Dibenzofuran	

DO just original

1D

EPA SAMPLE NO.

SB-14B (11'-13')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-009BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34604.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: 13.5 Decanted: (Y/N) N Date Extracted: 10/02/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
121-14-2	2,4-Dinitrotoluene	15000	U
84-66-2	Diethylphthalate	15000	U
86-73-7	Fluorene	31000	D
7005-72-3	4-Chlorophenyl-phenylether	15000	U
100-01-6	4-Nitroaniline	15000	U
534-52-1	4,6-Dinitro-2-methylphenol	15000	U
86-30-6	N-Nitrosodiphenylamine	15000	U
101-55-3	4-Bromophenyl-phenylether	15000	U
118-74-1	Hexachlorobenzene	15000	U
1912-24-9	Atrazine	15000	U
87-86-5	Pentachlorophenol	15000	U
85-01-8	Phenanthrene	87000	D
120-12-7	Anthracene	21000	D
86-74-8	Carbazole	15000	U
84-74-2	Di-n-butyl phthalate	15000	U
206-44-0	Fluoranthene	24000	D
129-00-0	Pyrene	35000	D
85-68-7	Butyl benzyl phthalate	15000	U
91-94-1	3,3'-Dichlorobenzidine	15000	U
56-55-3	Benzo(a)anthracene	13000	DJ
218-01-9	Chrysene	11000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	15000	U
117-84-0	Di-n-octyl phthalate	15000	U
205-99-2	Benzo(b)fluoranthene	5400	DJ
207-08-9	Benzo(k)fluoranthene	15000	U
50-32-8	Benzo(a)pyrene	8200	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	15000	U
53-70-3	Dibenzo(a,h)anthracene	15000	U
191-24-2	Benzo(g,h,i)perylene	15000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34615.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 400X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG Q

CAS NO.	COMPOUND		
12-03-3	3-Methylphenol/4-Methylphenol	18000	
100-52-7	Benzaldehyde	750	U J
108-95-2	Phenol	17000	~~E~~ J
111-44-4	Bis(2-chloroethyl)ether	750	U
95-57-8	2-Chlorophenol	750	U
95-48-7	2-Methylphenol	4400	
108-60-1	2,2´-oxybis(1-chloropropane)	750	U
98-86-2	Acetophenone	750	U
621-64-7	N-Nitroso-di-n-propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U J
78-59-1	Isophorone	750	U J
88-75-5	2-Nitrophenol	750	U J
105-67-9	2,4-Dimethylphenol	24000	~~E~~ J
111-91-1	Bis(2-chloroethoxy)methane	750	U J
120-83-2	2,4-Dichlorophenol	750	U J
91-20-3	Naphthalene	4800000 ~~1300000~~	~~E~~
106-47-8	4-Chloroaniline	750	U J
87-68-3	Hexachlorobutadiene	750	U J
105-60-2	Caprolactam	750	U J
59-50-7	4-Chloro-3-methylphenol	750	U J
91-57-6	2-Methylnaphthalene	700000 ~~450000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	750	U
92-52-4	1,1´-Biphenyl	110000 ~~65000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	750	U
606-20-2	2,6-Dinitrotoluene	750	U
208-96-8	Acenaphthylene	380000 ~~150000~~	~~E~~
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	36000	~~E~~ J
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	390000 ~~160000~~	~~E~~

1D

EPA SAMPLE NO.

SB-4 (1'-2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34615.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
86-73-7	Fluorene	590000 ~~200000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	750	U
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
1912-24-9	Atrazine	750	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	2000000 ~~670000~~	~~E~~
120-12-7	Anthracene	460000 ~~80000~~	~~E~~
86-74-8	Carbazole	210000 ~~160000~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	750	U
206-44-0	Fluoranthene	1500000 ~~310000~~	~~E~~
129-00-0	Pyrene	960000 ~~470000~~	~~E~~
~~85-68-7~~	~~Butyl benzyl phthalate~~	~~750~~	~~U~~ R
~~91-94-1~~	~~3,3'-Dichlorobenzidine~~	~~750~~	~~U~~ R
56-55-3	Benzo(a)anthracene	510000 ~~310000~~	~~E~~
218-01-9	Chrysene	360000 ~~37000~~	~~E~~
~~117-81-7~~	~~Bis(2-ethylhexyl)phthalate~~	~~750~~	~~U~~ R
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~750~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	330000 ~~200000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	190000 ~~56000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	340000 ~~170000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	160000 ~~67000~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	29000	~~E~~ J
191-24-2	Benzo(g,h,i)perylene	150000 ~~64000~~	~~E~~ J

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4 (1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34606.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	300000 U
100-52-7	Benzaldehyde	300000 U
108-95-2	Phenol	300000 U
111-44-4	Bis(2-chloroethyl)ether	300000 U
95-57-8	2-Chlorophenol	300000 U
95-48-7	2-Methylphenol	300000 U
108-60-1	2,2´-oxybis(1-chloropropane)	300000 U
98-86-2	Acetophenone	300000 U
621-64-7	N-Nitroso-di-n-propylamine	300000 U
67-72-1	Hexachloroethane	300000 U
98-95-3	Nitrobenzene	300000 U
78-59-1	Isophorone	300000 U
88-75-5	2-Nitrophenol	300000 U
105-67-9	2,4-Dimethylphenol	300000 U
111-91-1	Bis(2-chloroethoxy)methane	300000 U
120-83-2	2,4-Dichlorophenol	300000 U
91-20-3	Naphthalene	4800000 D
106-47-8	4-Chloroaniline	300000 U
87-68-3	Hexachlorobutadiene	300000 U
105-60-2	Caprolactam	300000 U
59-50-7	4-Chloro-3-methylphenol	300000 U
91-57-6	2-Methylnaphthalene	700000 D
77-47-4	Hexachlorocyclopentadiene	300000 U
88-06-2	2,4,6-Trichlorophenol	300000 U
95-95-4	2,4,5-Trichlorophenol	300000 U
92-52-4	1,1´-Biphenyl	110000 DJ
91-58-7	2-Chloronaphthalene	300000 U
88-74-4	2-Nitroaniline	300000 U
131-11-3	Dimethylphthalate	300000 U
606-20-2	2,6-Dinitrotoluene	300000 U
208-96-8	Acenaphthylene	380000 D
99-09-2	3-Nitroaniline	300000 U
83-32-9	Acenaphthene	300000 U
51-28-5	2,4-Dinitrophenol	300000 U
100-02-7	4-Nitrophenol	300000 U
132-64-9	Dibenzofuran	390000 D

1D

EPA SAMPLE NO.

SB-4 (1'-2')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34606.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	300000	U
84-66-2	Diethylphthalate	300000	U
86-73-7	Fluorene	590000	D
7005-72-3	4-Chlorophenyl-phenylether	300000	U
100-01-6	4-Nitroaniline	300000	U
534-52-1	4,6-Dinitro-2-methylphenol	300000	U
86-30-6	N-Nitrosodiphenylamine	300000	U
101-55-3	4-Bromophenyl-phenylether	300000	U
118-74-1	Hexachlorobenzene	300000	U
1912-24-9	Atrazine	300000	U
87-86-5	Pentachlorophenol	300000	U
85-01-8	Phenanthrene	2000000	D
120-12-7	Anthracene	460000	D
86-74-8	Carbazole	210000	DJ
84-74-2	Di-n-butyl phthalate	300000	U
206-44-0	Fluoranthene	1500000	D
129-00-0	Pyrene	960000	D
85-68-7	Butyl benzyl phthalate	300000	U
91-94-1	3,3'-Dichlorobenzidine	300000	U
56-55-3	Benzo(a)anthracene	510000	D
218-01-9	Chrysene	360000	D
117-81-7	Bis(2-ethylhexyl)phthalate	300000	U
117-84-0	Di-n-octyl phthalate	300000	U
205-99-2	Benzo(b)fluoranthene	330000	D
207-08-9	Benzo(k)fluoranthene	190000	DJ
50-32-8	Benzo(a)pyrene	340000	D
193-39-5	Indeno(1,2,3-cd)pyrene	160000	DJ
53-70-3	Dibenzo(a,h)anthracene	300000	U
191-24-2	Benzo(g,h,i)perylene	150000	DJ

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-10 (16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34584.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 15.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /500 x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	U J
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U J
78-59-1	Isophorone	390	U J
88-75-5	2-Nitrophenol	390	U J
105-67-9	2,4-Dimethylphenol	390	U J
111-91-1	Bis(2-chloroethoxy)methane	390	U J
120-83-2	2,4-Dichlorophenol	390	U J
91-20-3	Naphthalene	3200000 ~~790000~~	~~E~~
106-47-8	4-Chloroaniline	390	U J
87-68-3	Hexachlorobutadiene	390	U J
105-60-2	Caprolactam	390	U J
59-50-7	4-Chloro-3-methylphenol	390	U J
91-57-6	2-Methylnaphthalene	1500000 ~~610000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1'-Biphenyl	150000 ~~62000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	450000 ~~150000~~	~~E~~
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	140000 ~~62000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	16000	~~E~~ J

1D

EPA SAMPLE NO.

SB-10 (16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34584.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 15.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	390 U
84-66-2	Diethylphthalate	390 U
86-73-7	Fluorene	280000 ~~130000~~ ~~E~~
7005-72-3	4-Chlorophenyl-phenylether	390 U
100-01-6	4-Nitroaniline	390 U
534-52-1	4,6-Dinitro-2-methylphenol	390 U
86-30-6	N-Nitrosodiphenylamine	390 U
101-55-3	4-Bromophenyl-phenylether	390 U
118-74-1	Hexachlorobenzene	390 U
1912-24-9	Atrazine	390 U
87-86-5	Pentachlorophenol	390 U
85-01-8	Phenanthrene	820000 ~~340000~~ ~~E~~
120-12-7	Anthracene	200000 ~~58000~~ ~~E~~
86-74-8	Carbazole	4600
84-74-2	Di-n-butyl phthalate	390 U
206-44-0	Fluoranthene	240000 ~~90000~~ ~~E~~
129-00-0	Pyrene	740000 ~~250000~~ ~~E~~
85-68-7	Butyl benzyl phthalate	390 U J
91-94-1	3,3'-Dichlorobenzidine	390 U J
56-55-3	Benzo(a)anthracene	130000 ~~99000~~ ~~E~~ J
218-01-9	Chrysene	110000 ~~39000~~ ~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	710 J
~~117-84-0~~	~~Di-n-octyl phthalate~~	390 U R
205-99-2	Benzo(b)fluoranthene	59000 ~~36000~~ ~~E~~ J
207-08-9	Benzo(k)fluoranthene	11000 ~~E~~ J
50-32-8	Benzo(a)pyrene	92000 ~~43000~~ ~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	9100 ~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	3500 J
191-24-2	Benzo(g,h,i)perylene	9200 ~~E~~ J

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-10 (16'-18')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34605.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 15.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q	
12-03-3	3-Methylphenol/4-Methylphenol	200000	U
100-52-7	Benzaldehyde	200000	U
108-95-2	Phenol	200000	U
111-44-4	Bis(2-chloroethyl)ether	200000	U
95-57-8	2-Chlorophenol	200000	U
95-48-7	2-Methylphenol	200000	U
108-60-1	2,2'-oxybis(1-chloropropane)	200000	U
98-86-2	Acetophenone	200000	U
621-64-7	N-Nitroso-di-n-propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	200000	U
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
111-91-1	Bis(2-chloroethoxy)methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
91-20-3	Naphthalene	3200000	D
106-47-8	4-Chloroaniline	200000	U
87-68-3	Hexachlorobutadiene	200000	U
105-60-2	Caprolactam	200000	U
59-50-7	4-Chloro-3-methylphenol	200000	U
91-57-6	2-Methylnaphthalene	1500000	D
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	200000	U
92-52-4	1,1'-Biphenyl	110000	DJ
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	200000	U
131-11-3	Dimethylphthalate	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U
208-96-8	Acenaphthylene	450000	D
99-09-2	3-Nitroaniline	200000	U
83-32-9	Acenaphthene	140000	DJ
51-28-5	2,4-Dinitrophenol	200000	U
100-02-7	4-Nitrophenol	200000	U
132-64-9	Dibenzofuran	200000	U

1D

EPA SAMPLE NO.

SB-10 (16'-18')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34605.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 15.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
86-73-7	Fluorene	280000	D
7005-72-3	4-Chlorophenyl-phenylether	200000	U
100-01-6	4-Nitroaniline	200000	U
534-52-1	4,6-Dinitro-2-methylphenol	200000	U
86-30-6	N-Nitrosodiphenylamine	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
1912-24-9	Atrazine	200000	U
87-86-5	Pentachlorophenol	200000	U
85-01-8	Phenanthrene	820000	D
120-12-7	Anthracene	200000	D
86-74-8	Carbazole	200000	U
84-74-2	Di-n-butyl phthalate	200000	U
206-44-0	Fluoranthene	240000	D
129-00-0	Pyrene	340000	D
85-68-7	Butyl benzyl phthalate	200000	U
91-94-1	3,3'-Dichlorobenzidine	200000	U
56-55-3	Benzo(a)anthracene	130000	DJ
218-01-9	Chrysene	110000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	200000	U
117-84-0	Di-n-octyl phthalate	200000	U
205-99-2	Benzo(b)fluoranthene	59000	DJ
207-08-9	Benzo(k)fluoranthene	200000	U
50-32-8	Benzo(a)pyrene	82000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	200000	U
53-70-3	Dibenzo(a,h)anthracene	200000	U
191-24-2	Benzo(g,h,i)perylene	200000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (40'-41.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34616.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 400X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	770	U
100-52-7	Benzaldehyde	770	U J
108-95-2	Phenol	770	U
111-44-4	Bis(2-chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2´-oxybis(1-chloropropane)	770	U
98-86-2	Acetophenone	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U J
78-59-1	Isophorone	770	U J
88-75-5	2-Nitrophenol	770	U J
105-67-9	2,4-Dimethylphenol	770	U J
111-91-1	Bis(2-chloroethoxy)methane	770	U J
120-83-2	2,4-Dichlorophenol	770	U J
91-20-3	Naphthalene	3900000 ~~1400000~~	~~E~~
106-47-8	4-Chloroaniline	770	U J
87-68-3	Hexachlorobutadiene	770	U J
105-60-2	Caprolactam	770	U J
59-50-7	4-Chloro-3-methylphenol	770	U J
91-57-6	2-Methylnaphthalene	1700000 ~~940000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	770	U
92-52-4	1,1´-Biphenyl	140000 ~~79000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	770	U
606-20-2	2,6-Dinitrotoluene	770	U
208-96-8	Acenaphthylene	640000 ~~150000~~	~~E~~
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	79000 ~~36000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	37000	~~E~~ J

1D

EPA SAMPLE NO.

SB-10 (40'-41.5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34616.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
86-73-7	Fluorene	360000 ~~130000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	770	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
1912-24-9	Atrazine	770	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	1100000 ~~420000~~	~~E~~
120-12-7	Anthracene	260000 ~~65000~~	~~E~~ J
86-74-8	Carbazole	20000	~~B~~ J
84-74-2	Di-n-butyl phthalate	770	U
206-44-0	Fluoranthene	330000 ~~100000~~	~~E~~
129-00-0	Pyrene	450000 ~~200000~~	~~E~~
85-68-7	Butyl benzyl phthalate	770	U J
91-94-1	3,3'-Dichlorobenzidine	~~490000~~ 770	U J
56-55-3	Benzo(a)anthracene	190000 ~~110000~~	~~E~~ J
218-01-9	Chrysene	150000 ~~39000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	770	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~770~~	U R
205-99-2	Benzo(b)fluoranthene	65000	~~B~~ J
207-08-9	Benzo(k)fluoranthene	27000	~~B~~ J
50-32-8	Benzo(a)pyrene	120000 ~~74000~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	16000	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	7000	J
191-24-2	Benzo(g,h,i)perylene	17000	~~B~~ J

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-10 (40'-41.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34607.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	310000 U
100-52-7	Benzaldehyde	310000 U
108-95-2	Phenol	310000 U
111-44-4	Bis(2-chloroethyl)ether	310000 U
95-57-8	2-Chlorophenol	310000 U
95-48-7	2-Methylphenol	310000 U
108-60-1	2,2'-oxybis(1-chloropropane)	310000 U
98-86-2	Acetophenone	310000 U
621-64-7	N-Nitroso-di-n-propylamine	310000 U
67-72-1	Hexachloroethane	310000 U
98-95-3	Nitrobenzene	310000 U
78-59-1	Isophorone	310000 U
88-75-5	2-Nitrophenol	310000 U
105-67-9	2,4-Dimethylphenol	310000 U
111-91-1	Bis(2-chloroethoxy)methane	310000 U
120-83-2	2,4-Dichlorophenol	310000 U
91-20-3	Naphthalene	3900000 D
106-47-8	4-Chloroaniline	310000 U
87-68-3	Hexachlorobutadiene	310000 U
105-60-2	Caprolactam	310000 U
59-50-7	4-Chloro-3-methylphenol	310000 U
91-57-6	2-Methylnaphthalene	1700000 D
77-47-4	Hexachlorocyclopentadiene	310000 U
88-06-2	2,4,6-Trichlorophenol	310000 U
95-95-4	2,4,5-Trichlorophenol	310000 U
92-52-4	1,1'-Biphenyl	140000 DJ
91-58-7	2-Chloronaphthalene	310000 U
88-74-4	2-Nitroaniline	310000 U
131-11-3	Dimethylphthalate	310000 U
606-20-2	2,6-Dinitrotoluene	310000 U
208-96-8	Acenaphthylene	640000 D
99-09-2	3-Nitroaniline	310000 U
83-32-9	Acenaphthene	79000 DJ
51-28-5	2,4-Dinitrophenol	310000 U
100-02-7	4-Nitrophenol	310000 U
132-64-9	Dibenzofuran	310000 U

1D

EPA SAMPLE NO.

SB-10 (40'-41.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34607.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 14.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/13/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	310000 U
84-66-2	Diethylphthalate	310000 U
86-73-7	Fluorene	360000 D
7005-72-3	4-Chlorophenyl-phenylether	310000 U
100-01-6	4-Nitroaniline	310000 U
534-52-1	4,6-Dinitro-2-methylphenol	310000 U
86-30-6	N-Nitrosodiphenylamine	310000 U
101-55-3	4-Bromophenyl-phenylether	310000 U
118-74-1	Hexachlorobenzene	310000 U
1912-24-9	Atrazine	310000 U
87-86-5	Pentachlorophenol	310000 U
85-01-8	Phenanthrene	1100000 D
120-12-7	Anthracene	260000 DJ
86-74-8	Carbazole	310000 U
84-74-2	Di-n-butyl phthalate	310000 U
206-44-0	Fluoranthene	330000 D
129-00-0	Pyrene	450000 D
85-68-7	Butyl benzyl phthalate	310000 U
91-94-1	3,3'-Dichlorobenzidine	310000 U
56-55-3	Benzo(a)anthracene	190000 DJ
218-01-9	Chrysene	150000 DJ
117-81-7	Bis(2-ethylhexyl)phthalate	310000 U
117-84-0	Di-n-octyl phthalate	310000 U
205-99-2	Benzo(b)fluoranthene	310000 U
207-08-9	Benzo(k)fluoranthene	310000 U
50-32-8	Benzo(a)pyrene	120000 DJ
193-39-5	Indeno(1,2,3-cd)pyrene	310000 U
53-70-3	Dibenzo(a,h)anthracene	310000 U
191-24-2	Benzo(g,h,i)perylene	310000 U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34609.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /50 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	160	J
100-52-7	Benzaldehyde	380	UJ
108-95-2	Phenol	160	J
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	47000 ~~30000~~	~~E~~
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	14000 ~~14000~~	E J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	4800	
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	31000 ~~31000~~	~~E~~
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	2600	
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	26000 ~~26000~~	~~E~~

1D

EPA SAMPLE NO.

SB-12 (4'-5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34609.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	42000 ~~35000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	190000 ~~100000~~	~~E~~
120-12-7	Anthracene	46000 ~~27000~~	~~E~~
86-74-8	Carbazole	21000 ~~20000~~	~~E~~
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	120000 ~~56000~~	~~E~~
129-00-0	Pyrene	88000 ~~56000~~	~~E~~
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	42000 ~~47000~~	~~E~~
218-01-9	Chrysene	36000 ~~7900~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	31000 ~~33000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	14000 ~~6200~~	~~E~~ J
50-32-8	Benzo(a)pyrene	30000 ~~23000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	14000 ~~7100~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	2800	
191-24-2	Benzo(g,h,i)perylene	6000	

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SB-12 (4'-5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34668.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	19000	U
100-52-7	Benzaldehyde	19000	U
108-95-2	Phenol	19000	U
111-44-4	Bis(2-chloroethyl)ether	19000	U
95-57-8	2-Chlorophenol	19000	U
95-48-7	2-Methylphenol	19000	U
108-60-1	2,2'-oxybis(1-chloropropane)	19000	U
98-86-2	Acetophenone	19000	U
621-64-7	N-Nitroso-di-n-propylamine	19000	U
67-72-1	Hexachloroethane	19000	U
98-95-3	Nitrobenzene	19000	U
78-59-1	Isophorone	19000	U
88-75-5	2-Nitrophenol	19000	U
105-67-9	2,4-Dimethylphenol	19000	U
111-91-1	Bis(2-chloroethoxy)methane	19000	U
120-83-2	2,4-Dichlorophenol	47000	D
91-20-3	Naphthalene	19000	U
106-47-8	4-Chloroaniline	19000	U
87-68-3	Hexachlorobutadiene	19000	U
105-60-2	Caprolactam	19000	U
59-50-7	4-Chloro-3-methylphenol	16000	DJ
91-57-6	2-Methylnaphthalene	19000	U
77-47-4	Hexachlorocyclopentadiene	19000	U
88-06-2	2,4,6-Trichlorophenol	19000	U
95-95-4	2,4,5-Trichlorophenol	5200	DJ
92-52-4	1,1'-Biphenyl	19000	U
91-58-7	2-Chloronaphthalene	19000	U
88-74-4	2-Nitroaniline	19000	U
131-11-3	Dimethylphthalate	19000	U
606-20-2	2,6-Dinitrotoluene	38000	D
208-96-8	Acenaphthylene	19000	U
99-09-2	3-Nitroaniline	19000	U
83-32-9	Acenaphthene	19000	U
51-28-5	2,4-Dinitrophenol	19000	U
100-02-7	4-Nitrophenol	30000	D
132-64-9	Dibenzofuran		

1D

EPA SAMPLE NO.

SB-12 (4'-5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34668.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 12.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
121-14-2	2,4-Dinitrotoluene	19000 U
84-66-2	Diethylphthalate	19000 U
86-73-7	Fluorene	42000 D
7005-72-3	4-Chlorophenyl-phenylether	19000 U
100-01-6	4-Nitroaniline	19000 U
534-52-1	4,6-Dinitro-2-methylphenol	19000 U
86-30-6	N-Nitrosodiphenylamine	19000 U
101-55-3	4-Bromophenyl-phenylether	19000 U
118-74-1	Hexachlorobenzene	19000 U
1912-24-9	Atrazine	19000 U
87-86-5	Pentachlorophenol	19000 U
85-01-8	Phenanthrene	190000 D
120-12-7	Anthracene	46000 D
86-74-8	Carbazole	21000 D
84-74-2	Di-n-butyl phthalate	19000 U
206-44-0	Fluoranthene	120000 D
129-00-0	Pyrene	88000 D
85-68-7	Butyl benzyl phthalate	19000 U
91-94-1	3,3´-Dichlorobenzidine	19000 U
56-55-3	Benzo(a)anthracene	42000 D
218-01-9	Chrysene	36000 D
117-81-7	Bis(2-ethylhexyl)phthalate	19000 U
117-84-0	Di-n-octyl phthalate	19000 U
205-99-2	Benzo(b)fluoranthene	31000 D
207-08-9	Benzo(k)fluoranthene	14000 DJ
50-32-8	Benzo(a)pyrene	30000 D
193-39-5	Indeno(1,2,3-cd)pyrene	14000 DJ
53-70-3	Dibenzo(a,h)anthracene	4700 DJ
191-24-2	Benzo(g,h,i)perylene	15000 DJ

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

DUP-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34677.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /5X

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	710	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	320	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	95	J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	160	J
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	620	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	560	

1D

EPA SAMPLE NO.

DUP-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34677.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	790	J
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	18000 ~~11000~~	~~E~~ J
120-12-7	Anthracene	2700	J
86-74-8	Carbazole	730	J
84-74-2	Di-n-butyl phthalate	~~100~~ 390	~~J~~ U
206-44-0	Fluoranthene	14000 ~~12000~~	~~E~~ J
129-00-0	Pyrene	11000 ~~10000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	5600	J
218-01-9	Chrysene	5200	J
117-81-7	Bis(2-ethylhexyl)phthalate	~~110~~ 390	~~J~~ U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	5900	J
207-08-9	Benzo(k)fluoranthene	1700	J
50-32-8	Benzo(a)pyrene	4700	J
193-39-5	Indeno(1,2,3-cd)pyrene	1500	J
53-70-3	Dibenzo(a,h)anthracene	530	
191-24-2	Benzo(g,h,i)perylene	1000	J

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP-2DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34725.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1900	U
100-52-7	Benzaldehyde	1900	U
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-oxybis(1-chloropropane)	1900	U
98-86-2	Acetophenone	1900	U
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	730	DJ
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	610	DJ
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	540	DJ

1D

EPA SAMPLE NO.

DUP-2DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34725.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
86-73-7	Fluorene	760	DJ
7005-72-3	4-Chlorophenyl-phenylether	1900	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	1900	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	10000	D
120-12-7	Anthracene	2700	D
86-74-8	Carbazole	730	DJ
84-74-2	Di-n-butyl phthalate	1900	U
206-44-0	Fluoranthene	14000	D
129-00-0	Pyrene	11000	D
85-68-7	Butyl benzyl phthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	6000	D
218-01-9	Chrysene	5000	D
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octyl phthalate	1900	U
205-99-2	Benzo(b)fluoranthene	5200	D
207-08-9	Benzo(k)fluoranthene	1600	DJ
50-32-8	Benzo(a)pyrene	4400	D
193-39-5	Indeno(1,2,3-cd)pyrene	2300	D
53-70-3	Dibenzo(a,h)anthracene	680	DJ
191-24-2	Benzo(g,h,i)perylene	1900	D

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-3 (7.0)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34678.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	380 U
100-52-7	Benzaldehyde	380 U
108-95-2	Phenol	380 U
111-44-4	Bis(2-chloroethyl)ether	380 U
95-57-8	2-Chlorophenol	380 U
95-48-7	2-Methylphenol	380 U
108-60-1	2,2´-oxybis(1-chloropropane)	380 U
98-86-2	Acetophenone	380 U
621-64-7	N-Nitroso-di-n-propylamine	380 U
67-72-1	Hexachloroethane	380 U
98-95-3	Nitrobenzene	380 U
78-59-1	Isophorone	380 U
88-75-5	2-Nitrophenol	380 U
105-67-9	2,4-Dimethylphenol	380 U
111-91-1	Bis(2-chloroethoxy)methane	380 U
120-83-2	2,4-Dichlorophenol	380 U
91-20-3	Naphthalene	1200 J
106-47-8	4-Chloroaniline	380 U
87-68-3	Hexachlorobutadiene	380 U
105-60-2	Caprolactam	380 U
59-50-7	4-Chloro-3-methylphenol	380 U
91-57-6	2-Methylnaphthalene	490
77-47-4	Hexachlorocyclopentadiene	380 U
88-06-2	2,4,6-Trichlorophenol	380 U
95-95-4	2,4,5-Trichlorophenol	380 U
92-52-4	1,1´-Biphenyl	110 J
91-58-7	2-Chloronaphthalene	380 U
88-74-4	2-Nitroaniline	380 U
131-11-3	Dimethylphthalate	380 U
606-20-2	2,6-Dinitrotoluene	380 U
208-96-8	Acenaphthylene	180 J
99-09-2	3-Nitroaniline	380 U
83-32-9	Acenaphthene	270 J
51-28-5	2,4-Dinitrophenol	380 U
100-02-7	4-Nitrophenol	380 U
132-64-9	Dibenzofuran	290 J

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TP-3 (7.0)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34678.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 12.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	360	J
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	3100	J
120-12-7	Anthracene	760	J
86-74-8	Carbazole	220	J
84-74-2	Di-n-butyl phthalate	380 ~~100~~	~~J~~ U
206-44-0	Fluoranthene	4300	J
129-00-0	Pyrene	3400	J
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	2000	J
218-01-9	Chrysene	1900	J
117-81-7	Bis(2-ethylhexyl)phthalate	380 ~~130~~	~~J~~ U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	2300	
207-08-9	Benzo(k)fluoranthene	790	
50-32-8	Benzo(a)pyrene	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	570	J
53-70-3	Dibenzo(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	440	J

(1) Cannot be separated from Diphenylamine

1C

EPA SAMPLE NO.

TP-3 (7.5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34679.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	220	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	140	J
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	420	U

1D

EPA SAMPLE NO.

TP-3 (7.5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910974-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34679.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	170	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	320	J
120-12-7	Anthracene	130	J
86-74-8	Carbazole	420	U
84-74-2	Di-n-butyl phthalate	2000	
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	420	U
85-68-7	Butyl benzyl phthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	980	
56-55-3	Benzo(a)anthracene	820	
218-01-9	Chrysene	420 380	~~J~~ U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octyl phthalate	920	
205-99-2	Benzo(b)fluoranthene	360	J
207-08-9	Benzo(k)fluoranthene	710	
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	99	J
53-70-3	Dibenzo(a,h)anthracene	190	J
191-24-2	Benzo(g,h,i)perylene		

(1) Cannot be separated from Diphenylamine

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00032.raw

% Moisture: 12.5 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/08/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/12/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	300	U
11104-28-2	Aroclor 1221	620	U
11141-16-5	Aroclor 1232	300	U
53469-21-9	Aroclor 1242	300	U
12672-29-6	Aroclor 1248	300	U
11097-69-1	Aroclor 1254	300	U
11096-82-5	Aroclor 1260	300	U
37324-23-5	Aroclor 1262	300	U
11100-14-4	Aroclor 1268	300	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00372.raw

% Moisture: 18.5 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U~~J~~
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	40	U~~J~~
~~53469-21-9~~	~~Aroclor 1242~~	~~820~~	~~E~~
12672-29-6	Aroclor 1248	40	U~~J~~
~~11097-69-1~~	~~Aroclor 1254~~	~~1300~~	~~E~~
11096-82-5	Aroclor 1260	380	J
37324-23-5	Aroclor 1262	40	U~~J~~
11100-14-4	Aroclor 1268	40	U~~J~~

Do not report Aroclors 1242 and 1254 from this run.

WB
3/6/10

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-9 (4'-5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00269.raw

% Moisture: 18.5 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/23/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~200~~	~~UX~~
~~11104-28-2~~	~~Aroclor 1221~~	~~410~~	~~U~~
~~11141-16-5~~	~~Aroclor 1232~~	~~200~~	~~UX~~
53469-21-9	Aroclor 1242	690	~~D~~ J
~~12672-29-6~~	~~Aroclor 1248~~	~~200~~	~~UX~~
11097-69-1	Aroclor 1254	1500	~~D~~ J
~~11096-82-5~~	~~Aroclor 1260~~	~~350~~	~~D~~
~~37324-23-5~~	~~Aroclor 1262~~	~~200~~	~~UX~~
~~11100-14-4~~	~~Aroclor 1268~~	~~200~~	~~UX~~

Report only Aroclor 1242 and Aroclor 1254 from this run.

WB 3/16/10

AECOM050 P37

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (3'-4')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00373.raw

% Moisture: 27.4 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	45	UX J
11104-28-2	Aroclor 1221	92	U
11141-16-5	Aroclor 1232	45	UX J
53469-21-9	Aroclor 1242	330	J
12672-29-6	Aroclor 1248	45	UX J
11097-69-1	Aroclor 1254	330	J
~~11096-82-5~~	~~Aroclor 1260~~	~~750~~	~~E~~
37324-23-5	Aroclor 1262	45	UX J
11100-14-4	Aroclor 1268	45	UX J

Do not report Aroclor 1260 from this run

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-10 (3'-4')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00270.raw

% Moisture: 49.1 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/23/09

Injection Volume: 0.5 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~130~~	~~UX~~
~~11104-28-2~~	~~Aroclor 1221~~	~~260~~	~~U~~
~~11141-16-5~~	~~Aroclor 1232~~	~~130~~	~~UX~~
~~53469-21-9~~	~~Aroclor 1242~~	~~350~~	~~D~~
~~12672-29-6~~	~~Aroclor 1248~~	~~130~~	~~UX~~
~~11097-69-1~~	~~Aroclor 1254~~	~~410~~	~~DP~~
11096-82-5	Aroclor 1260	990	Ø
~~37324-23-5~~	~~Aroclor 1262~~	~~130~~	~~UX~~
~~11100-14-4~~	~~Aroclor 1268~~	~~130~~	~~UX~~

Report only Aroclor 1260 from this run,
LOB
3/16/10

AECOM050 P59

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (4'-5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910782-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00034.raw

% Moisture: 12.8 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/08/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/12/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	38	U
11104-28-2	Aroclor 1221	77	U
11141-16-5	Aroclor 1232	38	U
53469-21-9	Aroclor 1242	38	U
12672-29-6	Aroclor 1248	38	U
11097-69-1	Aroclor 1254	38	U
11096-82-5	Aroclor 1260	38	U
37324-23-5	Aroclor 1262	38	U
11100-14-4	Aroclor 1268	38	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910682-008B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00374.raw

% Moisture: 24.8 Decanted: (Y/N) N Date Received: 09/28/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	44	U
11104-28-2	Aroclor 1221	89	U
11141-16-5	Aroclor 1232	44	U
53469-21-9	Aroclor 1242	360	
12672-29-6	Aroclor 1248	44	U
11097-69-1	Aroclor 1254	150	J
11096-82-5	Aroclor 1260	76	J
37324-23-5	Aroclor 1262	44	U J
11100-14-4	Aroclor 1268	44	U

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB-15 (3-4)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00348.raw

% Moisture: 22.2 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injeotion Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	42	UX J
11104-28-2	Aroclor 1221	86	U
11141-16-5	Aroclor 1232	42	UX J
~~53469-21-9~~	~~Aroclor 1242~~	~~900~~	~~E~~
12672-29-6	Aroclor 1248	42	UX J
11097-69-1	Aroclor 1254	390	J
11096-82-5	Aroclor 1260	220	J
37324-23-5	Aroclor 1262	42	UX J
11100-14-4	Aroclor 1268	42	UX J

Do not report Aroclor 1242 from this run.
WB
3/16/10

AECOM050 P91

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (3-4)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910529-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00354.raw

% Moisture: 22.2 Decanted: (Y/N) N Date Received: 09/23/09

Extraction: (Type) PFEX Date Extracted: 09/28/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~210~~	~~UX~~
~~11104-28-2~~	~~Aroclor 1221~~	~~430~~	~~U~~
~~11141-16-5~~	~~Aroclor 1232~~	~~210~~	~~UX~~
53469-21-9	Aroclor 1242	960	D
~~12672-29-6~~	~~Aroclor 1248~~	~~210~~	~~UX~~
~~11097-69-1~~	~~Aroclor 1254~~	~~460~~	~~D~~
~~11096-82-5~~	~~Aroclor 1260~~	~~240~~	~~D~~
~~37324-23-5~~	~~Aroclor 1262~~	~~210~~	~~UX~~
~~11100-14-4~~	~~Aroclor 1268~~	~~210~~	~~UX~~

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16 (2-3)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00366.raw

% Moisture: 12.9 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	38	UX J
11104-28-2	Aroclor 1221	77	U
11141-16-5	Aroclor 1232	38	UX J
53469-21-9	Aroclor 1242	460	J
12672-29-6	Aroclor 1248	38	UX J
~~11097-69-1~~	~~Aroclor 1254~~	~~1300~~	~~E~~
11096-82-5	Aroclor 1260	190	J
37324-23-5	Aroclor 1262	38	UX J
11100-14-4	Aroclor 1268	38	UX J

Do not report Aroclor 1254 from this run.

LOB

3/16/10

FORM I PEST OLM04.2

AECOM050 P112

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16 (2-3)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00267.raw

% Moisture: 12.9 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/23/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~190~~	~~UX~~
~~11104-28-2~~	~~Aroclor 1221~~	~~380~~	~~U~~
~~11141-16-5~~	~~Aroclor 1232~~	~~190~~	~~UX~~
~~53469-21-9~~	~~Aroclor 1242~~	~~680~~	~~D~~
~~12672-29-6~~	~~Aroclor 1248~~	~~190~~	~~UX~~
11097-69-1	Aroclor 1254	780	~~P~~ J
~~11096-82-5~~	~~Aroclor 1260~~	~~210~~	~~D~~
~~37324-23-5~~	~~Aroclor 1262~~	~~190~~	~~UX~~
~~11100-14-4~~	~~Aroclor 1268~~	~~190~~	~~UX~~

Report only Aroclor 1254 from this run.

WB
3/16/10

AECOM050 P123

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (4-5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00367.raw

% Moisture: 15.9 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	39	UX J
11104-28-2	Aroclor 1221	80	U
11141-16-5	Aroclor 1232	39	UX J
~~53469-21-9~~	~~Aroclor 1242~~	~~990~~	~~E~~
12672-29-6	Aroclor 1248	39	UX J
~~11097-69-1~~	~~Aroclor 1254~~	~~750~~	~~E~~
11096-82-5	Aroclor 1260	260	J
37324-23-5	Aroclor 1262	39	UX
11100-14-4	Aroclor 1268	39	UX

Do not report Aroclor 1242 or Aroclor 1254 from this run.

AECOM050 P134

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (4-5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: 0910572-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00268.raw

% Moisture: 15.9 Decanted: (Y/N) N Date Received: 09/25/09

Extraction: (Type) PFEX Date Extracted: 09/30/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/23/09

Injection Volume: 0.5 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
~~12674-11-2~~	~~Aroclor 1016~~	~~200~~	~~U~~
~~11104-28-2~~	~~Aroclor 1221~~	~~400~~	~~U~~
~~11141-16-5~~	~~Aroclor 1232~~	~~200~~	~~U~~
53469-21-9	Aroclor 1242	350	~~D~~ J
~~12672-29-6~~	~~Aroclor 1248~~	~~200~~	~~U~~
11097-69-1	Aroclor 1254	1400	~~D~~
~~11096-82-5~~	~~Aroclor 1260~~	~~180~~	~~DJ~~
~~37324-23-5~~	~~Aroclor 1262~~	~~200~~	~~U~~
~~11100-14-4~~	~~Aroclor 1268~~	~~200~~	~~U~~

Report only Aroclors 1242 and 1254 from this run.
WB
3/6/10

AECOM050 P145

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (3-4)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910529-001

Level (low/med): LOW Date Received: 9/23/2009

% Solids: 77.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6350			P
7440-36-0	Antimony	6.4	B	J N	P
7440-38-2	Arsenic	14.3			P
7440-39-3	Barium	359			P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	0.91			P
7440-70-2	Calcium	59700			P
7440-47-3	Chromium	26.1		*	P
7440-48-4	Cobalt	7.6		J E	P
7440-50-8	Copper	139			P
7439-89-6	Iron	37700		J *	P
7439-92-1	Lead	846			P
7439-95-4	Magnesium	4840			P
7439-96-5	Manganese	374			P
7439-97-6	Mercury	1.4		J N*	CV
7440-02-0	Nickel	47.1			P
7440-09-7	Potassium	1160			P
7782-49-2	Selenium	2.0		J	P
7440-22-4	Silver	0.73	B	J N	P
7440-23-5	Sodium	395	B	J	P
7440-28-0	Thallium	4.7		J N*	P
7440-62-2	Vanadium	20.5		*	P
7440-66-6	Zinc	878		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-16 (2-3)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910572-001

Level (low/med): LOW Date Received: 9/25/2009

% Solids: 87.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6280			P
7440-36-0	Antimony	4.3	B	J N	P
7440-38-2	Arsenic	14.2			P
7440-39-3	Barium	269			P
7440-41-7	Beryllium	0.47	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	23900			P
7440-47-3	Chromium	25.7		*	P
7440-48-4	Cobalt	8.4		J E	P
7440-50-8	Copper	142			P
7439-89-6	Iron	51200		J *	P
7439-92-1	Lead	350			P
7439-95-4	Magnesium	3740			P
7439-96-5	Manganese	344			P
7439-97-6	Mercury	0.43		J N*	CV
7440-02-0	Nickel	31.0			P
7440-09-7	Potassium	909			P
7782-49-2	Selenium	1.3		J	P
7440-22-4	Silver	0.67	B	J N	P
7440-23-5	Sodium	253	B	J	P
7440-28-0	Thallium	6.8		J N*	P
7440-62-2	Vanadium	50.3		*	P
7440-66-6	Zinc	3370		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (4-5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910572-002

Level (low/med): LOW Date Received: 9/25/2009

% Solids: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4370			P
7440-36-0	Antimony	3.2	B	J N	P
7440-38-2	Arsenic	8.9			P
7440-39-3	Barium	377			P
7440-41-7	Beryllium	0.36	B	J	P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	35000			P
7440-47-3	Chromium	25.6			P
7440-48-4	Cobalt	7.4		J E	P
7440-50-8	Copper	107			P
7439-89-6	Iron	32700		J	P
7439-92-1	Lead	396			P
7439-95-4	Magnesium	3730			P
7439-96-5	Manganese	253			P
7439-97-6	Mercury	0.96		J N*	CV
7440-02-0	Nickel	21.2			P
7440-09-7	Potassium	736			P
7782-49-2	Selenium	1.0		J	P
7440-22-4	Silver	0.73	B	J N	P
7440-23-5	Sodium	288	B	J	P
7440-28-0	Thallium	3.8		J N*	P
7440-62-2	Vanadium	22.6			P
7440-66-6	Zinc	2700		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-9 (4'-5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-001

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3400			P
7440-36-0	Antimony	2.5	B	J N	P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	613			P
7440-41-7	Beryllium	0.21	B	J	P
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium	41800			P
7440-47-3	Chromium	17.2			P
7440-48-4	Cobalt	4.5	B	J E	P
7440-50-8	Copper	50.5			P
7439-89-6	Iron	10400		J	P
7439-92-1	Lead	503			P
7439-95-4	Magnesium	3620			P
7439-96-5	Manganese	177			P
7439-97-6	Mercury	1.9		J N*	CV
7440-02-0	Nickel	16.1			P
7440-09-7	Potassium	808			P
7782-49-2	Selenium	0.84		J	P
7440-22-4	Silver	1.2	B	J N	P
7440-23-5	Sodium	709			P
7440-28-0	Thallium	1.2	B	J N*	P
7440-62-2	Vanadium	16.9			P
7440-66-6	Zinc	529		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-9 (20'-21.5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-002

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 50.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21300			P
7440-36-0	Antimony	1.9	B	J N	P
7440-38-2	Arsenic	13.1			P
7440-39-3	Barium	44.7			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.066	U		P
7440-70-2	Calcium	1960			P
7440-47-3	Chromium	44.6		*	P
7440-48-4	Cobalt	13.5		J E	P
7440-50-8	Copper	12.5			P
7439-89-6	Iron	39800		J *	P
7439-92-1	Lead	16.2			P
7439-95-4	Magnesium	9040			P
7439-96-5	Manganese	462			P
7439-97-6	Mercury	0.033	U	N*	CV
7440-02-0	Nickel	30.1			P
7440-09-7	Potassium	5110			P
7782-49-2	Selenium	0.78	B	J	P
7440-22-4	Silver	0.16	U	J N	P
7440-23-5	Sodium	2890			P
7440-28-0	Thallium	4.8		J N*	P
7440-62-2	Vanadium	54.1		*	P
7440-66-6	Zinc	89.7		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-9 (36'-38')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-003

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 86.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3390			P
7440-36-0	Antimony	0.72	B	J N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	25.8			P
7440-41-7	Beryllium	0.20	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	1600			P
7440-47-3	Chromium	11.5		*	P
7440-48-4	Cobalt	12.9		J E	P
7440-50-8	Copper	21.3			P
7439-89-6	Iron	10000		J *	P
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium	1900			P
7439-96-5	Manganese	98.1			P
7439-97-6	Mercury	0.019	U	N*	CV
7440-02-0	Nickel	20.6			P
7440-09-7	Potassium	956			P
7782-49-2	Selenium	0.41	B	J	P
7440-22-4	Silver	0.096	U	J N	P
7440-23-5	Sodium	495	B	J	P
7440-28-0	Thallium	1.1	B	J N*	P
7440-62-2	Vanadium	25.6		*	P
7440-66-6	Zinc	20.4		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-9 (40'-42')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-004

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 74.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24000			P
7440-36-0	Antimony	1.9	B	J N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	328			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.046	U		P
7440-70-2	Calcium	8110			P
7440-47-3	Chromium	56.2		*	P
7440-48-4	Cobalt	21.7		J E	P
7440-50-8	Copper	34.0			P
7439-89-6	Iron	40400		J	P
7439-92-1	Lead	10.5			P
7439-95-4	Magnesium	16400			P
7439-96-5	Manganese	638			P
7439-97-6	Mercury	0.022	U	N	CV
7440-02-0	Nickel	47.8			P
7440-09-7	Potassium	9820			P
7782-49-2	Selenium	0.33	U		P
7440-22-4	Silver	0.12	B	J N	P
7440-23-5	Sodium	2350			P
7440-28-0	Thallium	3.2		J N	P
7440-62-2	Vanadium	68.9		*	P
7440-66-6	Zinc	96.6		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-10 (3'-4')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-005

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7660			P
7440-36-0	Antimony	2.3	B	J N	P
7440-38-2	Arsenic	4.9			P
7440-39-3	Barium	496			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.84			P
7440-70-2	Calcium	47900			P
7440-47-3	Chromium	29.3		*	P
7440-48-4	Cobalt	5.1	B	J E	P
7440-50-8	Copper	61.2			P
7439-89-6	Iron	13700		J *	P
7439-92-1	Lead	522			P
7439-95-4	Magnesium	7600			P
7439-96-5	Manganese	247			P
7439-97-6	Mercury	2.2		J N	CV
7440-02-0	Nickel	15.2			P
7440-09-7	Potassium	1110			P
7782-49-2	Selenium	0.73		J	P
7440-22-4	Silver	0.43	B	J N	P
7440-23-5	Sodium	1300			P
7440-28-0	Thallium	1.2	B	J N	P
7440-62-2	Vanadium	20.3		*	P
7440-66-6	Zinc	422		J E	P

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-10 (48'-50')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-006

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25400			P
7440-36-0	Antimony	2.6	B	J N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	226			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.047	U		P
7440-70-2	Calcium	13000			P
7440-47-3	Chromium	57.7		*	P
7440-48-4	Cobalt	22.6		J E	P
7440-50-8	Copper	41.0			P
7439-89-6	Iron	46200		J *	P
7439-92-1	Lead	13.1			P
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	677			P
7439-97-6	Mercury	0.023	U	N*	CV
7440-02-0	Nickel	50.7			P
7440-09-7	Potassium	9240			P
7782-49-2	Selenium	0.40	B	J	P
7440-22-4	Silver	0.11	U	J N	P
7440-23-5	Sodium	1660			P
7440-28-0	Thallium	4.0		J N*	P
7440-62-2	Vanadium	66.4		*	P
7440-66-6	Zinc	102		J E	P

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-13 (18'-24')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-007

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2350			P
7440-36-0	Antimony	39.7		J N	P
7440-38-2	Arsenic	37.6			P
7440-39-3	Barium	102			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	3.2			P
7440-70-2	Calcium	43000			P
7440-47-3	Chromium	5.7		*	P
7440-48-4	Cobalt	2.4	B	J E	P
7440-50-8	Copper	102			P
7439-89-6	Iron	7130		J *	P
7439-92-1	Lead	333			P
7439-95-4	Magnesium	22400			P
7439-96-5	Manganese	102			P
7439-97-6	Mercury	1.9		J N*	CV
7440-02-0	Nickel	7.9			P
7440-09-7	Potassium	649			P
7782-49-2	Selenium	3.3		J	P
7440-22-4	Silver	0.31	B	J N	P
7440-23-5	Sodium	282	B	J	P
7440-28-0	Thallium	1.2	B	J N*	P
7440-62-2	Vanadium	6.9		*	P
7440-66-6	Zinc	773		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14 (1'-2')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-008

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 75.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4240			P
7440-36-0	Antimony	2.2	B	J N	P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	182			P
7440-41-7	Beryllium	0.23	B	J	P
7440-43-9	Cadmium	0.41	B	J	P
7440-70-2	Calcium	39000			P
7440-47-3	Chromium	16.8		*	P
7440-48-4	Cobalt	3.2	B	J *	P
7440-50-8	Copper	48.6			P
7439-89-6	Iron	9720		J *	P
7439-92-1	Lead	212			P
7439-95-4	Magnesium	3750			P
7439-96-5	Manganese	112			P
7439-97-6	Mercury	0.76		J N*	CV
7440-02-0	Nickel	9.9			P
7440-09-7	Potassium	1090			P
7782-49-2	Selenium	0.77		J	P
7440-22-4	Silver	0.46	B	J N	P
7440-23-5	Sodium	552	B	J	P
7440-28-0	Thallium	0.80	B	J N*	P
7440-62-2	Vanadium	15.3		*	P
7440-66-6	Zinc	234		J *	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (11'-13')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910682-009

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3070			P
7440-36-0	Antimony	0.66	B	J N	P
7440-38-2	Arsenic	0.89	B	J	P
7440-39-3	Barium	12.7	B	J	P
7440-41-7	Beryllium	0.13	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	2540			P
7440-47-3	Chromium	8.4		*	P
7440-48-4	Cobalt	3.3	B	J E	P
7440-50-8	Copper	4.6			P
7439-89-6	Iron	5100		J *	P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	1420			P
7439-96-5	Manganese	54.4			P
7439-97-6	Mercury	0.019	U	N	CV
7440-02-0	Nickel	7.2			P
7440-09-7	Potassium	569	B	J	P
7782-49-2	Selenium	0.43	B	J	P
7440-22-4	Silver	0.096	U	J N	P
7440-23-5	Sodium	215	B	J	P
7440-28-0	Thallium	0.50	B	J N *	P
7440-62-2	Vanadium	9.4		*	P
7440-66-6	Zinc	16.8		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-4 (1'-2')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910782-001

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 87.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5930			P
7440-36-0	Antimony	1.6	B	J N	P
7440-38-2	Arsenic	13.5			P
7440-39-3	Barium	212			P
7440-41-7	Beryllium	0.35	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	7960			P
7440-47-3	Chromium	20.4		*	P
7440-48-4	Cobalt	6.1		J E	P
7440-50-8	Copper	70.6			P
7439-89-6	Iron	15400		J *	P
7439-92-1	Lead	1650			P
7439-95-4	Magnesium	1950			P
7439-96-5	Manganese	125			P
7439-97-6	Mercury	0.60		J N*	CV
7440-02-0	Nickel	13.9			P
7440-09-7	Potassium	902			P
7782-49-2	Selenium	2.6		J	P
7440-22-4	Silver	0.18	B	J N	P
7440-23-5	Sodium	130	B	J	P
7440-28-0	Thallium	1.7		J N*	P
7440-62-2	Vanadium	25.2		*	P
7440-66-6	Zinc	188		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-10 (16'-18')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910782-002

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 84.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3290			P
7440-36-0	Antimony	0.45	B	J N	P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	9.2	B	J	P
7440-41-7	Beryllium	0.10	B	J	P
7440-43-9	Cadmium	0.040	U		P
7440-70-2	Calcium	946			P
7440-47-3	Chromium	7.7		*	P
7440-48-4	Cobalt	2.4	B	J E	P
7440-50-8	Copper	12.0			P
7439-89-6	Iron	4050		J	P
7439-92-1	Lead	5.9			P
7439-95-4	Magnesium	1320			P
7439-96-5	Manganese	43.0			P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	4.9			P
7440-09-7	Potassium	576	B	J	P
7782-49-2	Selenium	0.34	B	J	P
7440-22-4	Silver	0.098	U	J N	P
7440-23-5	Sodium	325	B	J	P
7440-28-0	Thallium	0.60	B	J N	P
7440-62-2	Vanadium	7.4		*	P
7440-66-6	Zinc	16.3		J E	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-10 (40'-41.5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910782-003

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2210			P
7440-36-0	Antimony	0.53	B	J N	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	9.9	B	J	P
7440-41-7	Beryllium	0.11	B	J	P
7440-43-9	Cadmium	0.040	U		P
7440-70-2	Calcium	1010			P
7440-47-3	Chromium	6.6		*	P
7440-48-4	Cobalt	2.3	B	J E	P
7440-50-8	Copper	4.2			P
7439-89-6	Iron	4950		J *	P
7439-92-1	Lead	2.5			P
7439-95-4	Magnesium	1150			P
7439-96-5	Manganese	49.1			P
7439-97-6	Mercury	0.020	U	N*	CV
7440-02-0	Nickel	5.0			P
7440-09-7	Potassium	453	B	J	P
7782-49-2	Selenium	0.40	B	J	P
7440-22-4	Silver	0.097	U	J N	P
7440-23-5	Sodium	335	B	J	P
7440-28-0	Thallium	0.39	B	J N*	P
7440-62-2	Vanadium	7.8		*	P
7440-66-6	Zinc	12.9		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M20

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12 (4'-5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910782-004

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5930			P
7440-36-0	Antimony	16.7		J N	P
7440-38-2	Arsenic	10.6			P
7440-39-3	Barium	474			P
7440-41-7	Beryllium	0.38	B	J	P
7440-43-9	Cadmium	0.41	B	J	P
7440-70-2	Calcium	8180			P
7440-47-3	Chromium	19.1		*	P
7440-48-4	Cobalt	6.8		J E	P
7440-50-8	Copper	149			P
7439-89-6	Iron	22500		J *	P
7439-92-1	Lead	5690			P
7439-95-4	Magnesium	1920			P
7439-96-5	Manganese	293			P
7439-97-6	Mercury	1.4		J N*	CV
7440-02-0	Nickel	14.6			P
7440-09-7	Potassium	898			P
7782-49-2	Selenium	1.1		J	P
7440-22-4	Silver	0.68	B	J N	P
7440-23-5	Sodium	156	B	J	P
7440-28-0	Thallium	2.6		J N*	P
7440-62-2	Vanadium	23.7		*	P
7440-66-6	Zinc	606		J E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Date Reported: 10/27/09

AECOM050 M21

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP-2

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910974-001

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7140		J	P
7440-36-0	Antimony	2.2	B	J N	P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	127			P
7440-41-7	Beryllium	0.51	B	J	P
7440-43-9	Cadmium	0.040	U		P
7440-70-2	Calcium	3820		J	P
7440-47-3	Chromium	20.5		J *	P
7440-48-4	Cobalt	7.7		J E	P
7440-50-8	Copper	109			P
7439-89-6	Iron	26300		J *	P
7439-92-1	Lead	280			P
7439-95-4	Magnesium	2370		J	P
7439-96-5	Manganese	339			P
7439-97-6	Mercury	0.34		J N	CV
7440-02-0	Nickel	17.5			P
7440-09-7	Potassium	817			P
7782-49-2	Selenium	0.94		J	P
7440-22-4	Silver	0.26	B	J N	P
7440-23-5	Sodium	111	B	J	P
7440-28-0	Thallium	3.1		J N*	P
7440-62-2	Vanadium	29.1		*	P
7440-66-6	Zinc	298		J E	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M22

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-3 (7.0)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910974-002

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 87.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4470		J	P
7440-36-0	Antimony	2.1	B	J N	P
7440-38-2	Arsenic	7.3			P
7440-39-3	Barium	92.7			P
7440-41-7	Beryllium	0.38	B	J	P
7440-43-9	Cadmium	0.14	B	J	P
7440-70-2	Calcium	5790		J	P
7440-47-3	Chromium	12.6		J *	P
7440-48-4	Cobalt	5.8		J E	P
7440-50-8	Copper	141			P
7439-89-6	Iron	17100		J *	P
7439-92-1	Lead	199			P
7439-95-4	Magnesium	3400		J	P
7439-96-5	Manganese	323			P
7439-97-6	Mercury	0.26		J N *	CV
7440-02-0	Nickel	11.7			P
7440-09-7	Potassium	671			P
7782-49-2	Selenium	0.86		J	P
7440-22-4	Silver	0.27	B	J N	P
7440-23-5	Sodium	148	B	J	P
7440-28-0	Thallium	2.0		J N *	P
7440-62-2	Vanadium	22.0		*	P
7440-66-6	Zinc	338		J E	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M23

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-3 (7.5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Lab Sample ID: 0910974-003

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6660			P
7440-36-0	Antimony	2.0	B	J N	P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	95.4			P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.043	U		P
7440-70-2	Calcium	5790			P
7440-47-3	Chromium	19.7		*	P
7440-48-4	Cobalt	8.0		J E	P
7440-50-8	Copper	91.5			P
7439-89-6	Iron	34800		J *	P
7439-92-1	Lead	218			P
7439-95-4	Magnesium	2440			P
7439-96-5	Manganese	324			P
7439-97-6	Mercury	0.42		J N *	CV
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	754			P
7782-49-2	Selenium	0.94		J	P
7440-22-4	Silver	0.24	B	J N	P
7440-23-5	Sodium	110	B	J	P
7440-28-0	Thallium	4.5		J N *	P
7440-62-2	Vanadium	29.2		*	P
7440-66-6	Zinc	350		J E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/27/09

AECOM050 M24

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910529-001
ClientSample ID. : SB-15 (3-4)

Sample Information...
Type : Soil

Origin:

Collected :9/23/2009 1:20:00 PM
Received :9/23/2009 5:34:00 PM
Collected By AECOM
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		1	mg/Kg-dry	SW9014	09/28/2009 3:47 PM
Percent Moisture	22.2		1	wt%	D2216	09/28/2009 8:05 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910572-001
ClientSample ID. : SB-16 (2-3)

Sample Information...
Type : Soil

Origin:

Collected : 9/24/2009 2:15:00 PM
Received : 9/25/2009 5:58:00 PM
Collected By AECOM
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.57		1	mg/Kg-dry	SW9014	10/07/2009 3:02 PM
Percent Moisture	12.9		1	wt%	D2216	09/30/2009 1:06 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910572-002
ClientSample ID. : SB-18 (4-5)

Sample Information...
Type : Soil

Origin:

Collected : 9/25/2009 11:01:00 AM
Received : 9/25/2009 5:58:00 PM
Collected By AECOM
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 2.97		5	mg/Kg-dry	SW9014	10/05/2009 5:58 PM
Percent Moisture	15.9		1	wt%	D2216	09/30/2009 1:08 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-001
ClientSample ID. : SB-9 (4'-5')

Sample Information...
Type : Soil

Origin:

Collected : 9/27/2009 11:41:00 AM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 3.07		5	mg/Kg-dry	SW9014	10/05/2009 6:00 PM
Percent Moisture	18.5		1	wt%	D2216	09/30/2009 2:49 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-002
ClientSample ID. : SB-9 (20'-21.5')

Sample Information...
Type : Soil

Origin:

Collected : 9/27/2009 3:00:00 PM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.98		1	mg/Kg-dry	SW9014	10/05/2009 6:01 PM
Percent Moisture	49.1		1	wt%	D2216	09/30/2009 2:52 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavins

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910682-003**
ClientSample ID. : **SB-9 (36'-38')**

Sample Information...
Type : Soil

Origin:

Collected : 9/27/2009 3:30:00 PM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	10/05/2009 6:02 PM
Percent Moisture	13.4		1	wt%	D2216	09/30/2009 2:53 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910682-004**
ClientSample ID. : **SB-9 (40'-42')**

Sample Information...
Type : Soil

Origin:

Collected : 9/27/2009 3:50:00 PM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.68		1	mg/Kg-dry	SW9014	10/05/2009 6:03 PM
Percent Moisture	25.9		1	wt%	D2216	09/30/2009 2:55 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-005
ClientSample ID. : SB-10 (3'-4')

Sample Information...
Type : Soil

Origin:

Collected :9/27/2009 1:48:00 PM
Received :9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.69		1	mg/Kg-dry	SW9014	10/05/2009 6:08 PM
Percent Moisture	27.4		1	wt%	D2216	09/30/2009 2:56 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-006
ClientSample ID. : SB-10 (48'-50')

Sample Information...
Type : Soil

Origin:

Collected : 9/27/2009 2:15:00 PM
Received : 9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.69		1	mg/Kg-dry	SW9014	10/05/2009 6:09 PM
Percent Moisture	27.4		1	wt%	D2216	09/30/2009 2:58 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-007
ClientSample ID. : SB-13 (18'-24')

Sample Information...
Type : Soil

Origin:

Collected :9/27/2009 2:00:00 PM
Received :9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	12.4		25	mg/Kg-dry	SW9014	10/07/2009 3:04 PM
Percent Moisture	19.4		1	wt%	D2216	09/30/2009 2:59 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910682-008
ClientSample ID. : SB-14 (1'-2')

Sample Information...
Type : Soil

Origin:

Collected :9/27/2009 1:25:00 PM
Received :9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.66		10	mg/Kg-dry	SW9014	10/07/2009 3:05 PM
Percent Moisture	24.8		1	wt%	D2216	09/30/2009 3:01 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910682-009**

ClientSample ID. : **SB-14B (11'-13')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :9/27/2009 2:30:00 PM
Received :9/28/2009 4:45:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	10/05/2009 6:12 PM
Percent Moisture	13.5		1	wt%	D2216	09/30/2009 3:02 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910782-001**
ClientSample ID. : SB-4 (1'-2')

Sample Information...
Type : Soil

Origin:

Collected :9/24/2009 9:45:00 AM
Received :9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.57		1	mg/Kg-dry	SW9014	10/08/2009 7:16 PM
Percent Moisture	12.5		1	wt%	D2216	10/05/2009 8:08 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910782-002
ClientSample ID. : SB-10 (16'-18')

Sample Information...
Type : Soil

Origin:

Collected : 9/25/2009 4:25:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59		1	mg/Kg-dry	SW9014	10/08/2009 7:17 PM
Percent Moisture	15.8		1	wt%	D2216	10/05/2009 8:10 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910782-003
ClientSample ID. : SB-10 (40'-41.5')

Sample Information...
Type : Soil

Origin:

Collected : 9/28/2009 4:00:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	10/08/2009 7:18 PM
Percent Moisture	14.6		1	wt%	D2216	10/05/2009 8:11 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910782-004**
ClientSample ID. : **SB-12 (4'-5')**

Sample Information...
Type : Soil

Origin:

Collected : 9/25/2009 2:30:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.57		1	mg/Kg-dry	SW9014	10/08/2009 7:19 PM
Percent Moisture	12.8		1	wt%	D2216	10/05/2009 8:11 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910974-001
ClientSample ID. : DUP-2

Sample Information...
Type : Soil

Origin:

Collected : 10/7/2009
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59		1	mg/Kg-dry	SW9014	10/16/2009 6:04 PM
Percent Moisture	15.3		1	wt%	D2216	10/12/2009 8:00 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0910974-002
ClientSample ID. : TP-3 (7.0)

Sample Information...
Type : Soil

Origin:

Collected : 10/7/2009 12:45:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.57		1	mg/Kg-dry	SW9014	10/16/2009 6:05 PM
Percent Moisture	12.9		1	wt%	D2216	10/12/2009 8:01 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910974-003**

ClientSample ID. : **TP-3 (7.5)**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :10/7/2009 12:50:00 PM
Received :10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	10/16/2009 6:06 PM
Percent Moisture	21.0		1	wt%	D2216	10/12/2009 8:03 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 10/29/2009

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GW-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7633.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
74-87-3	Chloromethane	5	U	R
75-71-8	Dichlorodifluoromethane	5	U	
74-83-9	Bromomethane	5	U	
75-01-4	Vinyl chloride	5	U	
75-00-3	Chloroethane	5	U	
75-09-2	Methylene chloride	5	U	
67-64-1	Acetone	19	J	
75-69-4	Trichlorofluoromethane	5	U	R
75-35-4	1,1-Dichloroethene	5	U	R
75-15-0	Carbon disulfide	~~5~~	~~BJ~~ U	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U	R
75-34-3	1,1-Dichloroethane	2	J	
67-66-3	Chloroform	5	U	R
107-06-2	1,2-Dichloroethane	5	U	R
79-20-9	Methyl Acetate	5	U	R
78-93-3	2-Butanone	5	J	
71-55-6	1,1,1-Trichloroethane	5	U	R
156-60-5	trans-1,2-Dichloroethene	5	U	R
56-23-5	Carbon tetrachloride	5	U	R
1634-04-4	Methyl tert-butyl ether	16	J	
75-27-4	Bromodichloromethane	5	U	R
78-87-5	1,2-Dichloropropane	5	U	R
156-59-2	cis-1,2-Dichloroethene	1	J	
10061-01-5	cis-1,3-Dichloropropene	5	U	R
79-01-6	Trichloroethene	5	U	R
124-48-1	Dibromochloromethane	5	U	R
79-00-5	1,1,2-Trichloroethane	5	U	R
71-43-2	Benzene	3100	E	report OL
110-82-7	Cyclohexane	5	U	R
10061-02-6	trans-1,3-Dichloropropene	5	U	R
75-25-2	Bromoform	5	U	R
108-10-1	4-Methyl-2-pentanone	2	J	
591-78-6	2-Hexanone	25	U	R
127-18-4	Tetrachloroethene	5	U	R
79-34-5	1,1,2,2-Tetrachloroethane	5	U	R

AECOM051 V18

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7633.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-87-2	Methylcyclohexane	5	U	R
108-88-3	Toluene	2600	E	report DL
108-90-7	Chlorobenzene	5	U	R
100-41-4	Ethylbenzene	2800	E	report DL
100-42-5	Styrene	750	E	report DL

AECOM051 V19

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7633.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-38-3/106-42-3	m,p-Xylene	2700	E	report DL
95-47-6	o-Xylene	1600	E	report DL
106-93-4	1,2-Dibromoethane	5	U	R
98-82-8	Isopropylbenzene	49	J	
541-73-1	1,3-Dichlorobenzene	5	U	R
106-46-7	1,4-Dichlorobenzene	5	U	R
95-50-1	1,2-Dichlorobenzene	5	U	R
96-12-8	1,2-Dibromo-3-chloropropane	5	U	R
120-82-1	1,2,4-Trichlorobenzene	25	J U	J

AECOM051 V20

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

GW-1DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7690.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl chloride	500	U
75-00-3	Chloroethane	500	U
75-09-2	Methylene chloride	500	U
67-64-1	Acetone	2500	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	500	U
75-15-0	Carbon disulfide	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
79-20-9	Methyl Acetate	500	U
78-93-3	2-Butanone	2500	U
71-55-6	1,1,1-Trichloroethane	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
56-23-5	Carbon tetrachloride	500	U
1634-04-4	Methyl tert-butyl ether	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
156-59-2	cis-1,2-Dichloroethene	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	6400	~~U~~ J
110-82-7	Cyclohexane	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-pentanone	2500	U
591-78-6	2-Hexanone	2500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

DNR

report DNR

DNR - Do not report

AECOM051 V32

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-1DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7690.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-87-2	Methylcyclohexane	500	U	DNR
108-88-3	Toluene	2800	~~BJ~~	report
108-90-7	Chlorobenzene	500	U	DNR
100-41-4	Ethylbenzene	2600	~~BJ~~	report
100-42-5	Styrene	340	~~BJ~~	report

DNR- do not report

AECOM051 V33

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-1DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7690.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-38-3/106-42-3	m,p-Xylene	2500	~~BJ~~	report
95-47-6	o-Xylene	1200	~~BJ~~	report
106-93-4	1,2-Dibromoethane	500	U	DNR
98-82-8	Isopropylbenzene	500	U	
541-73-1	1,3-Dichlorobenzene	500	U	
106-46-7	1,4-Dichlorobenzene	500	U	
95-50-1	1,2-Dichlorobenzene	500	U	
96-12-8	1,2-Dibromo-3-chloropropane	500	U	
120-82-1	1,2,4-Trichlorobenzene	140	DBJ	

DNR - do not report

AECOM051 V34

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7688.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM051 V41

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7688.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM051 V42

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7688.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	1	BJ

AECOM051 V43

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7689.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM051 V47

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7689.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM051 V48

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-092809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7689.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM051 V49

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34411.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: Decanted: (Y/N) N Date Extracted: 09/30/09

Concentrated Extraot Volume: 1000 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
12-03-3	3-Methylphenol/4-Methylphenol	35		
100-52-7	Benzaldehyde	10	U	
108-95-2	Phenol	10	U	
111-44-4	Bis(2-chloroethyl)ether	10	U	
95-57-8	2-Chlorophenol	10	U	
95-48-7	2-Methylphenol	7	J	
108-60-1	2,2'-oxybis(1-chloropropane)	10	U	
98-86-2	Acetophenone	10	U	
621-64-7	N-Nitroso-di-n-propylamine	10	U	
67-72-1	Hexachloroethane	10	U	
98-95-3	Nitrobenzene	10	U	
78-59-1	Isophorone	10	U	
88-75-5	2-Nitrophenol	10	U	
105-67-9	2,4-Dimethylphenol	83	~~E~~	J
111-91-1	Bis(2-chloroethoxy)methane	10	U	
120-83-2	2,4-Dichlorophenol	10	U	
91-20-3	~~Naphthalene~~	~~6600~~	~~E~~	report DL
106-47-8	4-Chloroaniline	10	U	
87-68-3	Hexachlorobutadiene	10	U	
105-60-2	Caprolactam	10	U	J
59-50-7	4-Chloro-3-methylphenol	10	U	
91-57-6	~~2-Methylnaphthalene~~	~~2800~~	~~E~~	report DL
77-47-4	Hexachlorocyclopentadiene	10	U	
88-06-2	2,4,6-Trichlorophenol	10	U	
95-95-4	2,4,5-Trichlorophenol	10	U	
92-52-4	1,1'-Biphenyl	140	~~E~~	J
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	10	U	
131-11-3	Dimethylphthalate	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
208-96-8	~~Acenaphthylene~~	~~610~~	~~E~~	report DL
99-09-2	3-Nitroaniline	10	U	
83-32-9	Acenaphthene	59		
51-28-5	2,4-Dinitrophenol	10	U	
100-02-7	4-Nitrophenol	10	U	
132-64-9	Dibenzofuran	24		

AECOM051B22

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

GW-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34411.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: Decanted: (Y/N) N Date Extracted: 09/30/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/02/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	190	~~E~~ J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	350	~~E~~ report DL
120-12-7	Anthracene	91	~~E~~ J
86-74-8	Carbazole	19	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	86	~~E~~ J
129-00-0	Pyrene	130	~~E~~ J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	39	
117-81-7	Bis(2-ethylhexyl)phthalate	3	J
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	32	
207-08-9	Benzo(k)fluoranthene	7	J
50-32-8	Benzo(a)pyrene	35	
193-39-5	Indeno(1,2,3-cd)pyrene	6	J
53-70-3	Dibenzo(a,h)anthracene	2	J
191-24-2	Benzo(g,h,i)perylene	6	J

(1) Cannot be separated from Diphenylamine

AECOM051 B23

1C

EPA SAMPLE NO.

GW-1DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34469.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: Decanted: (Y/N) N Date Extracted: 09/30/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	4000	U
100-52-7	Benzaldehyde	4000	U
108-95-2	Phenol	4000	U
111-44-4	Bis(2-chloroethyl)ether	4000	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2´-oxybis(1-chloropropane)	4000	U
98-86-2	Acetophenone	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
91-20-3	Naphthalene	30000	D
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	4000	U
59-50-7	4-Chloro-3-methylphenol	4000	U
91-57-6	2-Methylnaphthalene	4000	D
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1´-Biphenyl	4000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
208-96-8	Acenaphthylene	1300	DJ
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	4000	U
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	4000	U

DNR

report DNR

report DNR

report DNR

AECOM051 B39

DNR - do not report

1D

EPA SAMPLE NO.

GW-1DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: 0910683-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34469.D

Level: (low/med) LOW Date Received: 09/28/09

% Moisture: Decanted: (Y/N) N Date Extracted: 09/30/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/06/09

Injection Volume: 2 (µL) Dilution Factor: 400.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
86-73-7	Fluorene	4000	U
7005-72-3	4-Chlorophenyl-phenylether	4000	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	4000	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	600	~~BJ~~
120-12-7	Anthracene	4000	U
86-74-8	Carbazole	4000	U
84-74-2	Di-n-butyl phthalate	4000	U
206-44-0	Fluoranthene	4000	U
129-00-0	Pyrene	4000	U
85-68-7	Butyl benzyl phthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	Bis(2-ethylhexyl)phthalate	4000	U
117-84-0	Di-n-octyl phthalate	4000	U
205-99-2	Benzo(b)fluoranthene	4000	U
207-08-9	Benzo(k)fluoranthene	4000	U
50-32-8	Benzo(a)pyrene	4000	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000	U
53-70-3	Dibenzo(a,h)anthracene	4000	U
191-24-2	Benzo(g,h,i)perylene	4000	U

DNR

Report DNR

(1) Cannot be separated from Diphenylamine

DNR- do not report

AECOM051 B40

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

GW-1

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM051

Matrix (soil/water): WATER Lab Sample ID: 0910683-001

Level (low/med): LOW Date Received: 9/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	89800			P
7440-36-0	Antimony	11.3	B	N J	P
7440-38-2	Arsenic	42.1			P
7440-39-3	Barium	816			P
7440-41-7	Beryllium	4.6	B	J	P
7440-43-9	Cadmium	1.5	B	J	P
7440-70-2	Calcium	308000			P
7440-47-3	Chromium	254		J E	P
7440-48-4	Cobalt	77.3		J E	P
7440-50-8	Copper	291			P
57-12-5	Cyanide	12.1			CA
7439-89-6	Iron	184000			P
7439-92-1	Lead	762		J E	P
7439-95-4	Magnesium	125000		J E	P
7439-96-5	Manganese	4190		J E	P
7439-97-6	Mercury	1.6		J N	CV
7440-02-0	Nickel	155		J E	P
7440-09-7	Potassium	65000			P
7782-49-2	Selenium	14.0		J	P
7440-22-4	Silver	1.6	B	J N	P
7440-23-5	Sodium	327000			P
7440-28-0	Thallium	7.1	B	J	P
7440-62-2	Vanadium	281			P
7440-66-6	Zinc	815		J E	P

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: BROWN Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/22/09

AECOM051 M5

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3501.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 21.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U J
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U J
75-09-2	Methylene chloride	19	~~B~~ U
67-64-1	Acetone	100	~~B~~ J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	13	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	30	
110-82-7	Cyclohexane	6	U J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	5	J
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S77

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3501.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 21.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	UJ
108-88-3	Toluene	10	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	25	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	17	
95-47-6	o-Xylene	11	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	3	J
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	3	J
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	UJ

AECOM056 S78

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3502.D

Level: (low/med) LOW / MLS Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00 / 20X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	69	U J
75-71-8	Dichlorodifluoromethane	69	U J
74-83-9	Bromomethane	69	U J
75-01-4	Vinyl chloride	69	U J
75-00-3	Chloroethane	69	U J
75-09-2	Methylene chloride	210	~~B~~ U J
67-64-1	Acetone	~~330~~ 350	~~BJ~~ U J
75-69-4	Trichlorofluoromethane	69	U J
75-35-4	1,1-Dichloroethene	69	U J
75-15-0	Carbon disulfide	45	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	69	U J
75-34-3	1,1-Dichloroethane	28	J
67-66-3	Chloroform	69	U J
107-06-2	1,2-Dichloroethane	69	U J
79-20-9	Methyl Acetate	69	U J
78-93-3	2-Butanone	64	J
71-55-6	1,1,1-Trichloroethane	69	U J
156-60-5	trans-1,2-Dichloroethene	69	U
56-23-5	Carbon tetrachloride	69	U
1634-04-4	Methyl tert-butyl ether	69	U
75-27-4	Bromodichloromethane	69	U
78-87-5	1,2-Dichloropropane	69	U
156-59-2	cis-1,2-Dichloroethene	69	U
10061-01-5	cis-1,3-Dichloropropene	69	U
79-01-6	Trichloroethene	69	U
124-48-1	Dibromochloromethane	69	U
79-00-5	1,1,2-Trichloroethane	69	U
71-43-2	Benzene	53000 ~~36000~~	~~E~~
110-82-7	Cyclohexane	69	U J
10061-02-6	trans-1,3-Dichloropropene	69	U J
75-25-2	Bromoform	69	U J
108-10-1	4-Methyl-2-pentanone	38	J
591-78-6	2-Hexanone	350	U J
127-18-4	Tetrachloroethene	69	U J
79-34-5	1,1,2,2-Tetrachloroethane	69	U J

AECOM056 S79

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3502.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	180	J
108-88-3	Toluene	130000 ~~39000~~	~~E~~
108-90-7	Chlorobenzene	69	U J
100-41-4	Ethylbenzene	130000 ~~30000~~	~~E~~
100-42-5	Styrene	60000 ~~11000~~	~~E~~
108-38-3/106-42-3	m,p-Xylene	190000 ~~33000~~	~~E~~
95-47-6	o-Xylene	81000 ~~18000~~	~~E~~
106-93-4	1,2-Dibromoethane	69	U J
98-82-8	Isopropylbenzene	3600	~~E~~ J report
541-73-1	1,3-Dichlorobenzene	69	U J
106-46-7	1,4-Dichlorobenzene	69	U J
95-50-1	1,2-Dichlorobenzene	69	U J
96-12-8	1,2-Dibromo-3-chloropropane	69	U J
120-82-1	1,2,4-Trichlorobenzene	69	U J

AECOM056 S80

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66795.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	17000	U
75-71-8	Dichlorodifluoromethane	17000	U
74-83-9	Bromomethane	17000	U
75-01-4	Vinyl chloride	17000	U
75-00-3	Chloroethane	17000	U
75-09-2	Methylene chloride	17000	U
67-64-1	Acetone	86000	U
75-69-4	Trichlorofluoromethane	17000	U
75-35-4	1,1-Dichloroethene	17000	U
75-15-0	Carbon disulfide	17000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17000	U
75-34-3	1,1-Dichloroethane	17000	U
67-66-3	Chloroform	17000	U
107-06-2	1,2-Dichloroethane	17000	U
79-20-9	Methyl Acetate	17000	U
78-93-3	2-Butanone	86000	U
71-55-6	1,1,1-Trichloroethane	17000	U
156-60-5	trans-1,2-Dichloroethene	17000	U
56-23-5	Carbon tetrachloride	17000	U
1634-04-4	Methyl tert-butyl ether	17000	U
75-27-4	Bromodichloromethane	17000	U
78-87-5	1,2-Dichloropropane	17000	U
156-59-2	cis-1,2-Dichloroethene	17000	U
10061-01-5	cis-1,3-Dichloropropene	17000	U
79-01-6	Trichloroethene	17000	U
124-48-1	Dibromochloromethane	17000	U
79-00-5	1,1,2-Trichloroethane	17000	U
71-43-2	Benzene	53000	D
110-82-7	Cyclohexane	17000	U
10061-02-6	trans-1,3-Dichloropropene	17000	U
75-25-2	Bromoform	17000	U
108-10-1	4-Methyl-2-pentanone	86000	U
591-78-6	2-Hexanone	86000	U
127-18-4	Tetrachloroethene	17000	U
79-34-5	1,1,2,2-Tetrachloroethane	17000	U

AECOM056 S81

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66795.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	17000	U
108-88-3	Toluene	130000	D
108-90-7	Chlorobenzene	17000	U
100-41-4	Ethylbenzene	130000	D
100-42-5	Styrene	60000	D
108-38-3/106-42-3	m,p-Xylene	190000	D
95-47-6	o-Xylene	83000	D
106-93-4	1,2-Dibromoethane	17000	U
98-82-8	Isopropylbenzene	17000	U
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	17000	U
95-50-1	1,2-Dichlorobenzene	17000	U
96-12-8	1,2-Dibromo-3-chloropropane	17000	U
120-82-1	1,2,4-Trichlorobenzene	17000	U

AECOM056 S82

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3540.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 30.4 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	36	U
75-71-8	Dichlorodifluoromethane	36	U
74-83-9	Bromomethane	36	U
75-01-4	Vinyl chloride	36	U
75-00-3	Chloroethane	36	U
75-09-2	Methylene chloride	~~100~~ 140	~~B~~ UJ
67-64-1	Acetone	~~99~~ 180	~~J~~ U
75-69-4	Trichlorofluoromethane	36	U
75-35-4	1,1-Dichloroethene	36	U
75-15-0	Carbon disulfide	36	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
67-66-3	Chloroform	36	U
107-06-2	1,2-Dichloroethane	36	U
79-20-9	Methyl Acetate	36	U
78-93-3	2-Butanone	21	J
71-55-6	1,1,1-Trichloroethane	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
56-23-5	Carbon tetrachloride	36	U
1634-04-4	Methyl tert-butyl ether	36	U
75-27-4	Bromodichloromethane	36	U
78-87-5	1,2-Dichloropropane	36	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
79-01-6	Trichloroethene	36	U
124-48-1	Dibromochloromethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
71-43-2	Benzene	36	U
110-82-7	Cyclohexane	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U
75-25-2	Bromoform	36	U
108-10-1	4-Methyl-2-pentanone	180	U
591-78-6	2-Hexanone	180	U
127-18-4	Tetrachloroethene	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U

AECOM056 S83

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3540.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 30.4 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	36	U
108-88-3	Toluene	36	U
108-90-7	Chlorobenzene	36	U
100-41-4	Ethylbenzene	36	U
100-42-5	Styrene	36	U
108-38-3/106-42-3	m,p-Xylene	72	U
95-47-6	o-Xylene	36	U
106-93-4	1,2-Dibromoethane	36	U
98-82-8	Isopropylbenzene	36	U
541-73-1	1,3-Dichlorobenzene	36	U
106-46-7	1,4-Dichlorobenzene	36	U
95-50-1	1,2-Dichlorobenzene	36	U
96-12-8	1,2-Dibromo-3-chloropropane	36	U
120-82-1	1,2,4-Trichlorobenzene	36	U

AECOM056 S84

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3541.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	64	U
75-71-8	Dichlorodifluoromethane	64	U
74-83-9	Bromomethane	64	U
75-01-4	Vinyl chloride	64	U
75-00-3	Chloroethane	64	U
75-09-2	Methylene chloride	~~180~~ 240	~~B~~ UJ
67-64-1	Acetone	~~130~~ 320	~~J~~ U
75-69-4	Trichlorofluoromethane	64	U
75-35-4	1,1-Dichloroethene	64	U
75-15-0	Carbon disulfide	23	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	64	U
75-34-3	1,1-Dichloroethane	64	U
67-66-3	Chloroform	64	U
107-06-2	1,2-Dichloroethane	64	U
79-20-9	Methyl Acetate	64	U
78-93-3	2-Butanone	39	J
71-55-6	1,1,1-Trichloroethane	64	U
156-60-5	trans-1,2-Dichloroethene	64	U
56-23-5	Carbon tetrachloride	64	U
1634-04-4	Methyl tert-butyl ether	64	U
75-27-4	Bromodichloromethane	64	U
78-87-5	1,2-Dichloropropane	64	U
156-59-2	cis-1,2-Dichloroethene	64	U
10061-01-5	cis-1,3-Dichloropropene	64	U
79-01-6	Trichloroethene	64	U
124-48-1	Dibromochloromethane	64	U
79-00-5	1,1,2-Trichloroethane	64	U
71-43-2	Benzene	~~4100~~ J 3400	~~E~~
110-82-7	Cyclohexane	64	U
10061-02-6	trans-1,3-Dichloropropene	64	U
75-25-2	Bromoform	64	U
108-10-1	4-Methyl-2-pentanone	320	U
591-78-6	2-Hexanone	320	U
127-18-4	Tetrachloroethene	64	U
79-34-5	1,1,2,2-Tetrachloroethane	64	U

AECOM056 S85

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3541.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	64	U
108-88-3	Toluene	370	
108-90-7	Chlorobenzene	64	U
100-41-4	Ethylbenzene	24000 ~~14000~~	~~E~~
100-42-5	Styrene	64	U
108-38-3/106-42-3	m,p-Xylene	13000 ~~6800~~	~~E~~
95-47-6	o-Xylene	23000 ~~9400~~	~~E~~
106-93-4	1,2-Dibromoethane	64	U
98-82-8	Isopropylbenzene	1700	
541-73-1	1,3-Dichlorobenzene	64	U
106-46-7	1,4-Dichlorobenzene	64	U
95-50-1	1,2-Dichlorobenzene	64	U
96-12-8	1,2-Dibromo-3-chloropropane	64	U
120-82-1	1,2,4-Trichlorobenzene	64	U

AECOM056 S86

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66827.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	800	U
75-71-8	Dichlorodifluoromethane	800	U
74-83-9	Bromomethane	800	U
75-01-4	Vinyl chloride	800	U
75-00-3	Chloroethane	800	U
75-09-2	Methylene chloride	180	DJ
67-64-1	Acetone	550	J
75-69-4	Trichlorofluoromethane	800	U
75-35-4	1,1-Dichloroethene	800	U
75-15-0	Carbon disulfide	800	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	800	U
75-34-3	1,1-Dichloroethane	800	U
67-66-3	Chloroform	800	U
107-06-2	1,2-Dichloroethane	800	U
79-20-9	Methyl Acetate	800	U
78-93-3	2-Butanone	660	DBJ
71-55-6	1,1,1-Trichloroethane	800	U
156-60-5	trans-1,2-Dichloroethene	800	U
56-23-5	Carbon tetrachloride	800	U
1634-04-4	Methyl tert-butyl ether	800	U
75-27-4	Bromodichloromethane	800	U
78-87-5	1,2-Dichloropropane	800	U
156-59-2	cis-1,2-Dichloroethene	800	U
10061-01-5	cis-1,3-Dichloropropene	800	U
79-01-6	Trichloroethene	800	U
124-48-1	Dibromochloromethane	800	U
79-00-5	1,1,2-Trichloroethane	800	U
71-43-2	Benzene	2300	D
110-82-7	Cyclohexane	800	U
10061-02-6	trans-1,3-Dichloropropene	800	U
75-25-2	Bromoform	800	U
108-10-1	4-Methyl-2-pentanone	4000	U
591-78-6	2-Hexanone	4000	U
127-18-4	Tetrachloroethene	800	U
79-34-5	1,1,2,2-Tetrachloroethane	800	U

AECOM056 S87

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-15 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66827.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	800	U
108-88-3	Toluene	370	DJ
108-90-7	Chlorobenzene	800	U
100-41-4	Ethylbenzene	26000	D
100-42-5	Styrene	800	U
108-38-3/106-42-3	m,p-Xylene	13000	D
95-47-6	o-Xylene	23000	D
106-93-4	1,2-Dibromoethane	800	U
98-82-8	Isopropylbenzene	6900	D
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
95-50-1	1,2-Dichlorobenzene	800	U
96-12-8	1,2-Dibromo-3-chloropropane	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U

AECOM056 S88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3542.D

Level: (low/med) LOW / MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	61	U
75-71-8	Dichlorodifluoromethane	61	U
74-83-9	Bromomethane	61	U
75-01-4	Vinyl chloride	61	U
75-00-3	Chloroethane	61	U
75-09-2	Methylene chloride	~~170~~ 230	~~B~~ UJ
67-64-1	Acetone	~~57~~ 300	~~J~~ U
75-69-4	Trichlorofluoromethane	61	U
75-35-4	1,1-Dichloroethene	61	U
75-15-0	Carbon disulfide	61	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	61	U
75-34-3	1,1-Dichloroethane	61	U
67-66-3	Chloroform	61	U
107-06-2	1,2-Dichloroethane	61	U
79-20-9	Methyl Acetate	61	U
78-93-3	2-Butanone	300	U
71-55-6	1,1,1-Trichloroethane	61	U
156-60-5	trans-1,2-Dichloroethene	61	U
56-23-5	Carbon tetrachloride	61	U
1634-04-4	Methyl tert-butyl ether	61	U
75-27-4	Bromodichloromethane	61	U
78-87-5	1,2-Dichloropropane	61	U
156-59-2	cis-1,2-Dichloroethene	13	J
10061-01-5	cis-1,3-Dichloropropene	61	U
79-01-6	Trichloroethene	61	U
124-48-1	Dibromochloromethane	61	U
79-00-5	1,1,2-Trichloroethane	61	U
71-43-2	Benzene	7100 ~~7800~~	~~E~~
110-82-7	Cyclohexane	61	U
10061-02-6	trans-1,3-Dichloropropene	61	U
75-25-2	Bromoform	61	U
108-10-1	4-Methyl-2-pentanone	300	U
591-78-6	2-Hexanone	300	U
127-18-4	Tetrachloroethene	61	U
79-34-5	1,1,2,2-Tetrachloroethane	61	U

AECOM056 S89

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3542.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	61	U
108-88-3	Toluene	6900 ~~6300~~	~~E~~
108-90-7	Chlorobenzene	61	U
100-41-4	Ethylbenzene	15000 ~~8000~~	~~E~~
100-42-5	Styrene	2200	
108-38-3/106-42-3	m,p-Xylene	17000 ~~10000~~	~~E~~
95-47-6	o-Xylene	11000 ~~6000~~	~~E~~
106-93-4	1,2-Dibromoethane	61	U
98-82-8	Isopropylbenzene	190	
541-73-1	1,3-Dichlorobenzene	61	U
106-46-7	1,4-Dichlorobenzene	61	U
95-50-1	1,2-Dichlorobenzene	61	U
96-12-8	1,2-Dibromo-3-chloropropane	61	U
120-82-1	1,2,4-Trichlorobenzene	61	U

AECOM056 S90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66828.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	760	U
75-71-8	Dichlorodifluoromethane	760	U
74-83-9	Bromomethane	760	U
75-01-4	Vinyl chloride	760	U
75-00-3	Chloroethane	760	U
75-09-2	Methylene chloride	760	U
67-64-1	Acetone	3800	U
75-69-4	Trichlorofluoromethane	760	U
75-35-4	1,1-Dichloroethene	760	U
75-15-0	Carbon disulfide	760	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	760	U
75-34-3	1,1-Dichloroethane	760	U
67-66-3	Chloroform	760	U
107-06-2	1,2-Dichloroethane	760	U
79-20-9	Methyl Acetate	760	U
78-93-3	2-Butanone	740	BJ
71-55-6	1,1,1-Trichloroethane	760	U
156-60-5	trans-1,2-Dichloroethene	760	U
56-23-5	Carbon tetrachloride	760	U
1634-04-4	Methyl tert-butyl ether	760	U
75-27-4	Bromodichloromethane	760	U
78-87-5	1,2-Dichloropropane	760	U
156-59-2	cis-1,2-Dichloroethene	760	U
10061-01-5	cis-1,3-Dichloropropene	760	U
79-01-6	Trichloroethene	760	U
124-48-1	Dibromochloromethane	760	U
79-00-5	1,1,2-Trichloroethane	760	U
71-43-2	Benzene	7700	
110-82-7	Cyclohexane	760	U
10061-02-6	trans-1,3-Dichloropropene	760	U
75-25-2	Bromoform	760	U
108-10-1	4-Methyl-2-pentanone	3800	U
591-78-6	2-Hexanone	3800	U
127-18-4	Tetrachloroethene	760	U
79-34-5	1,1,2,2-Tetrachloroethane	760	U

AECOM056 S91

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66828.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	760	U
108-88-3	Toluene	6900	
108-90-7	Chlorobenzene	760	U
100-41-4	Ethylbenzene	15000	
100-42-5	Styrene	3800	
108-38-3/106-42-3	m,p-Xylene	17000	
95-47-6	o-Xylene	11000	
106-93-4	1,2-Dibromoethane	760	U
98-82-8	Isopropylbenzene	650	J
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U
96-12-8	1,2-Dibromo-3-chloropropane	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U

AECOM056 S92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3538.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 25.8 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	~~19~~ 24	~~B~~ UJ
67-64-1	Acetone	~~14~~ 34	~~J~~ U
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM056 S93

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3538.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 25.8 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM056 S94

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3543.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	66	U
75-71-8	Dichlorodifluoromethane	66	U
74-83-9	Bromomethane	66	U
75-01-4	Vinyl chloride	66	U
75-00-3	Chloroethane	66	U
75-09-2	Methylene chloride	~~190~~ 250	~~B~~ U J
67-64-1	Acetone	~~93~~ 330	~~J~~ U
75-69-4	Trichlorofluoromethane	66	U
75-35-4	1,1-Dichloroethene	66	U
75-15-0	Carbon disulfide	66	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	66	U
75-34-3	1,1-Dichloroethane	66	U
67-66-3	Chloroform	66	U
107-06-2	1,2-Dichloroethane	66	U
79-20-9	Methyl Acetate	66	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	66	U
156-60-5	trans-1,2-Dichloroethene	66	U
56-23-5	Carbon tetrachloride	66	U
1634-04-4	Methyl tert-butyl ether	66	U
75-27-4	Bromodichloromethane	66	U
78-87-5	1,2-Dichloropropane	66	U
156-59-2	cis-1,2-Dichloroethene	66	U
10061-01-5	cis-1,3-Dichloropropene	66	U
79-01-6	Trichloroethene	66	U
124-48-1	Dibromochloromethane	66	U
79-00-5	1,1,2-Trichloroethane	66	U
71-43-2	Benzene	66	U
110-82-7	Cyclohexane	310	J
10061-02-6	trans-1,3-Dichloropropene	66	U
75-25-2	Bromoform	66	U
108-10-1	4-Methyl-2-pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	66	U
79-34-5	1,1,2,2-Tetrachloroethane	66	U

AECOM056 S95

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3543.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1000	J
108-88-3	Toluene	66	U
108-90-7	Chlorobenzene	66	U
100-41-4	Ethylbenzene	66	U
100-42-5	Styrene	66	U
108-38-3/106-42-3	m,p-Xylene	130	U
95-47-6	o-Xylene	66	U
106-93-4	1,2-Dibromoethane	66	U
98-82-8	Isopropylbenzene	100	J
541-73-1	1,3-Dichlorobenzene	66	U
106-46-7	1,4-Dichlorobenzene	66	U
95-50-1	1,2-Dichlorobenzene	66	U
96-12-8	1,2-Dibromo-3-chloropropane	66	U
120-82-1	1,2,4-Trichlorobenzene	66	U

AECOM056 S96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3561.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Report original analysis.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	66	U
75-71-8	Dichlorodifluoromethane	66	U
74-83-9	Bromomethane	66	U
75-01-4	Vinyl chloride	66	U
75-00-3	Chloroethane	66	U
75-09-2	Methylene chloride	200	B
67-64-1	Acetone	210	J
75-69-4	Trichlorofluoromethane	66	U
75-35-4	1,1-Dichloroethene	66	U
75-15-0	Carbon disulfide	66	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	66	U
75-34-3	1,1-Dichloroethane	66	U
67-66-3	Chloroform	66	U
107-06-2	1,2-Dichloroethane	66	U
79-20-9	Methyl Acetate	66	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	66	U
156-60-5	trans-1,2-Dichloroethene	66	U
56-23-5	Carbon tetrachloride	66	U
1634-04-4	Methyl tert-butyl ether	66	U
75-27-4	Bromodichloromethane	66	U
78-87-5	1,2-Dichloropropane	66	U
156-59-2	cis-1,2-Dichloroethene	66	U
10061-01-5	cis-1,3-Dichloropropene	66	U
79-01-6	Trichloroethene	66	U
124-48-1	Dibromochloromethane	66	U
79-00-5	1,1,2-Trichloroethane	66	U
71-43-2	Benzene	66	U
110-82-7	Cyclohexane	200	
10061-02-6	trans-1,3-Dichloropropene	66	U
75-25-2	Bromoform	66	U
108-10-1	4-Methyl-2-pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	66	U
79-34-5	1,1,2,2-Tetrachloroethane	66	U

AECOM056 S97

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3561.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	680	
108-88-3	Toluene	66	U
108-90-7	Chlorobenzene	66	U
100-41-4	Ethylbenzene	66	U
100-42-5	Styrene	66	U
108-38-3/106-42-3	m,p-Xylene	130	U
95-47-6	o-Xylene	66	U
106-93-4	1,2-Dibromoethane	66	U
98-82-8	Isopropylbenzene	58	J
541-73-1	1,3-Dichlorobenzene	66	U
106-46-7	1,4-Dichlorobenzene	66	U
95-50-1	1,2-Dichlorobenzene	66	U
96-12-8	1,2-Dibromo-3-chloropropane	66	U
120-82-1	1,2,4-Trichlorobenzene	66	U

AECOM056 S98

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910813-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66812.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S99

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910813-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66812.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S100

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3536.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 17.3 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~17~~ 23	~~B~~ UJ
67-64-1	Acetone	~~15~~ 30	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	4	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S101

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3536.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 17.3 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	5	J
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	3	J
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S102

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3537.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 19.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~18~~ 24	~~B~~ UJ
67-64-1	Acetone	~~18~~ 31	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	13	
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S103

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3537.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 19.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	17	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	5	J
95-47-6	o-Xylene	3	J
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S104

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910860-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66814.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S105

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910860-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66814.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S106

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3615.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 16.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	85	~~B~~ UJ
67-64-1	Acetone	~~48~~ 150	~~J~~ U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	65	
110-82-7	Cyclohexane	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S107

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3615.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 16.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	30	U
108-88-3	Toluene	21	J
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	330	
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	77	
95-47-6	o-Xylene	63	
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	57	
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S108

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3616.D

Level: (low/med) LOW /MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	29	U
75-71-8	Dichlorodifluoromethane	29	U
74-83-9	Bromomethane	29	U
75-01-4	Vinyl chloride	29	U
75-00-3	Chloroethane	29	U
75-09-2	Methylene chloride	84	~~B~~ UJ
67-64-1	Acetone	~~45~~ 150	~~J~~ U
75-69-4	Trichlorofluoromethane	29	U
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon disulfide	12	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
75-34-3	1,1-Dichloroethane	29	U
67-66-3	Chloroform	29	U
107-06-2	1,2-Dichloroethane	29	U
79-20-9	Methyl Acetate	29	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
56-23-5	Carbon tetrachloride	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-27-4	Bromodichloromethane	29	U
78-87-5	1,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
79-01-6	Trichloroethene	29	U
124-48-1	Dibromochloromethane	29	U
79-00-5	1,1,2-Trichloroethane	29	U
71-43-2	Benzene	1400 ~~8100~~	~~E~~ J
110-82-7	Cyclohexane	29	
10061-02-6	trans-1,3-Dichloropropene	29	U
75-25-2	Bromoform	29	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U

AECOM056 S109

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3616.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	81	
108-88-3	Toluene	7400 ~~16000~~	~~E~~ J
108-90-7	Chlorobenzene	29	U
100-41-4	Ethylbenzene	17000 ~~16000~~	~~E~~ J
100-42-5	Styrene	1100	
108-38-3/106-42-3	m,p-Xylene	15000 ~~14000~~	~~E~~ J
95-47-6	o-Xylene	7700 ~~9600~~	~~E~~ J
106-93-4	1,2-Dibromoethane	29	U
98-82-8	Isopropylbenzene	1800 ~~3900~~	~~E~~ J
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U

AECOM056 S110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66904.D

Level: (low/med) MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	730	U
75-71-8	Dichlorodifluoromethane	730	U
74-83-9	Bromomethane	730	U
75-01-4	Vinyl chloride	730	U
75-00-3	Chloroethane	730	U
75-09-2	Methylene chloride	180	DBJ
67-64-1	Acetone	3600	U
75-69-4	Trichlorofluoromethane	730	U
75-35-4	1,1-Dichloroethene	730	U
75-15-0	Carbon disulfide	730	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	730	U
75-34-3	1,1-Dichloroethane	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
79-20-9	Methyl Acetate	730	U
78-93-3	2-Butanone	3600	U
71-55-6	1,1,1-Trichloroethane	730	U
156-60-5	trans-1,2-Dichloroethene	730	U
56-23-5	Carbon tetrachloride	730	U
1634-04-4	Methyl tert-butyl ether	730	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
156-59-2	cis-1,2-Dichloroethene	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	730	U
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	1400	D
110-82-7	Cyclohexane	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-pentanone	3600	U
591-78-6	2-Hexanone	3600	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U

AECOM056 S111

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66904.D

Level: (low/med) MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	730	U
108-88-3	Toluene	7400	D
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	17000	D
100-42-5	Styrene	590	DJ
108-38-3/106-42-3	m,p-Xylene	15000	D
95-47-6	o-Xylene	7700	D
106-93-4	1,2-Dibromoethane	730	U
98-82-8	Isopropylbenzene	1800	D
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
96-12-8	1,2-Dibromo-3-chloropropane	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U

AECOM056 S112

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (54'-56')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3617.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 30.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	24	~~B~~ UJ
67-64-1	Acetone	~~19~~ 36	~~J~~ U
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	36	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	130	
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	36	U
591-78-6	2-Hexanone	36	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM056 S113

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (54'-56')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3617.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 30.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	21	J
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	6	J
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	8	J
95-47-6	o-Xylene	3	J
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM056 S114

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3624.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	83	~~B~~ UJ
67-64-1	Acetone	160	J
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	6	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	35	J
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
110-82-7	Cyclohexane	100	J
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S117

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3624.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	310	J
108-88-3	Toluene	13	J
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	30	U
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	17	J
95-47-6	o-Xylene	30	U
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	60	J
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S118

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3618.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Report reanalysis results.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	86	B
67-64-1	Acetone	94	J
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	22	J
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
110-82-7	Cyclohexane	35	
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S115

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3618.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	82	
108-88-3	Toluene	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	30	U
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	59	U
95-47-6	o-Xylene	30	U
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S116

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100709

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910975-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66815.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S119

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100709

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910975-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66815.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S120

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1 (9')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3611.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	31	U
75-71-8	Dichlorodifluoromethane	31	U
74-83-9	Bromomethane	31	U
75-01-4	Vinyl chloride	31	U
75-00-3	Chloroethane	31	U
75-09-2	Methylene chloride	110	~~B~~ UJ
67-64-1	Acetone	330	J
75-69-4	Trichlorofluoromethane	31	U
75-35-4	1,1-Dichloroethene	31	U
75-15-0	Carbon disulfide	15	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	31	U
75-34-3	1,1-Dichloroethane	31	U
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
79-20-9	Methyl Acetate	31	U
78-93-3	2-Butanone	71	J
71-55-6	1,1,1-Trichloroethane	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
56-23-5	Carbon tetrachloride	31	U
1634-04-4	Methyl tert-butyl ether	31	U
75-27-4	Bromodichloromethane	31	U
78-87-5	1,2-Dichloropropane	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-01-6	Trichloroethene	31	U
124-48-1	Dibromochloromethane	31	U
79-00-5	1,1,2-Trichloroethane	31	U
71-43-2	Benzene	31	U
110-82-7	Cyclohexane	31	U
10061-02-6	trans-1,3-Dichloropropene	31	U
75-25-2	Bromoform	31	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U

AECOM056 S121

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1 (9')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3611.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	31	U
108-88-3	Toluene	31	UJ
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	34	
100-42-5	Styrene	31	U
108-38-3/106-42-3	m,p-Xylene	44	J
95-47-6	o-Xylene	46	
106-93-4	1,2-Dibromoethane	31	U
98-82-8	Isopropylbenzene	17	J
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

AECOM056 S122

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3614.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 16.3 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	17	~~B~~ UJ
67-64-1	Acetone	~~18~~ 30	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S123

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3614.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 16.3 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S124

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001a

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3629.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 15 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	19	~~B~~ UJ
67-64-1	Acetone	~~9~~ 24	~~BJ~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S125

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001a

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3629.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 15 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S126

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3630.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 17.9 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	18	~~B~~ UJ
67-64-1	Acetone	~~12~~ 30	~~BJ~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S127

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3630.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 17.9 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S128

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66917.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S129

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66917.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S130

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66916.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	BJ
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S131

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66916.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S132

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34734.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	990	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	85	J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	250	J
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	250	J
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	310	J

AECOM056 S134

1D

EPA SAMPLE NO.

DUP-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34734.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	440	J
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	720	J
86-74-8	Carbazole	280	J
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	4200	
129-00-0	Pyrene	3000	
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	1500	
117-81-7	Bis(2-ethylhexyl)phthalate	90	J
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	1700	J
207-08-9	Benzo(k)fluoranthene	690	
50-32-8	Benzo(a)pyrene	1400	J
193-39-5	Indeno(1,2,3-cd)pyrene	590	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	440	

(1) Cannot be separated from Diphenylamine

AECOM056 S135

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34724.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM056 S136

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34724.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM056 S137

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-2B(5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34793.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 25 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	3000	
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1'-Biphenyl	480	
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	2100	
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	2300	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	3200	

AECOM056 S138

1D

EPA SAMPLE NO.

SB-2B(5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34793.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	5800	
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	51000 ~~48000~~	~~E~~
120-12-7	Anthracene	10000 ~~10000~~	~~E~~
86-74-8	Carbazole	3200	
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	~~71000~~ ~~45000~~	~~E~~
129-00-0	Pyrene	~~52000~~ ~~41000~~	~~E~~
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	28000 ~~31000~~	~~E~~
218-01-9	Chrysene	28000 ~~19000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octyl phthalate	390	U J
205-99-2	Benzo(b)fluoranthene	25000 ~~26000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	10000 ~~8400~~	~~E~~
50-32-8	Benzo(a)pyrene	23000 ~~22000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	5700	J
53-70-3	Dibenzo(a,h)anthracene	2400	J
191-24-2	Benzo(g,h,i)perylene	4400	J

(1) Cannot be separated from Diphenylamine

15

AECOM056 S139

1C

EPA SAMPLE NO.

SB-2B(5)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34796.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	9700	U
100-52-7	Benzaldehyde	9700	U
108-95-2	Phenol	9700	U
111-44-4	Bis(2-chloroethyl)ether	9700	U
95-57-8	2-Chlorophenol	9700	U
95-48-7	2-Methylphenol	9700	U
108-60-1	2,2´-oxybis(1-chloropropane)	9700	U
98-86-2	Acetophenone	9700	U
621-64-7	N-Nitroso-di-n-propylamine	9700	U
67-72-1	Hexachloroethane	9700	U
98-95-3	Nitrobenzene	9700	U
78-59-1	Isophorone	9700	U
88-75-5	2-Nitrophenol	9700	U
105-67-9	2,4-Dimethylphenol	9700	U
111-91-1	Bis(2-chloroethoxy)methane	9700	U
120-83-2	2,4-Dichlorophenol	9700	U
91-20-3	Naphthalene	3100	DJ
106-47-8	4-Chloroaniline	9700	U
87-68-3	Hexachlorobutadiene	9700	U
105-60-2	Caprolactam	9700	U
59-50-7	4-Chloro-3-methylphenol	9700	U
91-57-6	2-Methylnaphthalene	9700	U
77-47-4	Hexachlorocyclopentadiene	9700	U
88-06-2	2,4,6-Trichlorophenol	9700	U
95-95-4	2,4,5-Trichlorophenol	9700	U
92-52-4	1,1´-Biphenyl	9700	U
91-58-7	2-Chloronaphthalene	9700	U
88-74-4	2-Nitroaniline	9700	U
131-11-3	Dimethylphthalate	9700	U
606-20-2	2,6-Dinitrotoluene	9700	U
208-96-8	Acenaphthylene	2300	DJ
99-09-2	3-Nitroaniline	9700	U
83-32-9	Acenaphthene	2300	DJ
51-28-5	2,4-Dinitrophenol	9700	U
100-02-7	4-Nitrophenol	9700	U
132-64-9	Dibenzofuran	3100	DJ

AECOM056 S140

1D

EPA SAMPLE NO.

SB-2B(5)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34796.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	9700	U
84-66-2	Diethylphthalate	9700	U
86-73-7	Fluorene	5200	DJ
7005-72-3	4-Chlorophenyl-phenylether	9700	U
100-01-6	4-Nitroaniline	9700	U
534-52-1	4,6-Dinitro-2-methylphenol	9700	U
86-30-6	N-Nitrosodiphenylamine	9700	U
101-55-3	4-Bromophenyl-phenylether	9700	U
118-74-1	Hexachlorobenzene	9700	U
1912-24-9	Atrazine	9700	U
87-86-5	Pentachlorophenol	9700	U
85-01-8	Phenanthrene	51000	D
120-12-7	Anthracene	10000	D
86-74-8	Carbazole	3600	DJ
84-74-2	Di-n-butyl phthalate	9700	U
206-44-0	Fluoranthene	71000	D
129-00-0	Pyrene	52000	D
85-68-7	Butyl benzyl phthalate	9700	U
91-94-1	3,3´-Dichlorobenzidine	9700	U
56-55-3	Benzo(a)anthracene	28000	D
218-01-9	Chrysene	28000	D
117-81-7	Bis(2-ethylhexyl)phthalate	9700	U
117-84-0	Di-n-octyl phthalate	9700	U
205-99-2	Benzo(b)fluoranthene	25000	D
207-08-9	Benzo(k)fluoranthene	10000	D
50-32-8	Benzo(a)pyrene	23000	D
193-39-5	Indeno(1,2,3-cd)pyrene	9100	DJ
53-70-3	Dibenzo(a,h)anthracene	3500	DJ
191-24-2	Benzo(g,h,i)perylene	7300	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S141

1C

EPA SAMPLE NO.

SB-6(6)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34792.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	400 U
100-52-7	Benzaldehyde	140 J
108-95-2	Phenol	400 U
111-44-4	Bis(2-chloroethyl)ether	400 U
95-57-8	2-Chlorophenol	400 U
95-48-7	2-Methylphenol	400 U
108-60-1	2,2´-oxybis(1-chloropropane)	400 U
98-86-2	Acetophenone	400 U
621-64-7	N-Nitroso-di-n-propylamine	400 U
67-72-1	Hexachloroethane	400 U
98-95-3	Nitrobenzene	400 U
78-59-1	Isophorone	400 U
88-75-5	2-Nitrophenol	400 U
105-67-9	2,4-Dimethylphenol	400 U
111-91-1	Bis(2-chloroethoxy)methane	400 U
120-83-2	2,4-Dichlorophenol	400 U
91-20-3	Naphthalene	140 J
106-47-8	4-Chloroaniline	400 U
87-68-3	Hexachlorobutadiene	400 U
105-60-2	Caprolactam	400 U
59-50-7	4-Chloro-3-methylphenol	400 U
91-57-6	2-Methylnaphthalene	400 U
77-47-4	Hexachlorocyclopentadiene	400 U
88-06-2	2,4,6-Trichlorophenol	400 U
95-95-4	2,4,5-Trichlorophenol	400 U
92-52-4	1,1´-Biphenyl	400 U
91-58-7	2-Chloronaphthalene	400 U
88-74-4	2-Nitroaniline	400 U
131-11-3	Dimethylphthalate	400 U
606-20-2	2,6-Dinitrotoluene	400 U
208-96-8	Acenaphthylene	400 U
99-09-2	3-Nitroaniline	400 U
83-32-9	Acenaphthene	400 U
51-28-5	2,4-Dinitrophenol	400 U
100-02-7	4-Nitrophenol	400 U
132-64-9	Dibenzofuran	400 U

AECOM056 S142

1D

EPA SAMPLE NO.

SB-6(6)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34792.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	410	
129-00-0	Pyrene	360	J
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	250	J
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	100	J

(1) Cannot be separated from Diphenylamine

AECOM056 S143

1C

EPA SAMPLE NO.

SB-11(16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34687.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /10 x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	UJ
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	10000 ~~10000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	1000	
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	2800	
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	3600	
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	1000	

AECOM056 S144

1D

EPA SAMPLE NO.

SB-11(16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34687.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	4600	
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	17000 ~~17000~~	~~E~~
120-12-7	Anthracene	5700	
86-74-8	Carbazole	590	
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	13000 ~~8600~~	~~E~~
129-00-0	Pyrene	21000 ~~21000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	UJ
91-94-1	3,3´-Dichlorobenzidine	400	UJ
56-55-3	Benzo(a)anthracene	6600 ~~7200~~	~~E~~
218-01-9	Chrysene	6100	J
117-81-7	Bis(2-ethylhexyl)phthalate	370	J
117-84-0	Di-n-octyl phthalate	400	UJ
205-99-2	Benzo(b)fluoranthene	7100 ~~7800~~	~~E~~
207-08-9	Benzo(k)fluoranthene	3400	J
50-32-8	Benzo(a)pyrene	10000 ~~9600~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2400	J
53-70-3	Dibenzo(a,h)anthracene	830	J
191-24-2	Benzo(g,h,i)perylene	2000	J

(1) Cannot be separated from Diphenylamine

AECOM056 S145

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34727.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4000	U
100-52-7	Benzaldehyde	4000	U
108-95-2	Phenol	4000	U
111-44-4	Bis(2-chloroethyl)ether	4000	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-oxybis(1-chloropropane)	4000	U
98-86-2	Acetophenone	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
91-20-3	Naphthalene	10000	D
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	4000	U
59-50-7	4-Chloro-3-methylphenol	4000	U
91-57-6	2-Methylnaphthalene	2700	DJ
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1'-Biphenyl	990	DJ
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
208-96-8	Acenaphthylene	2700	DJ
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	3500	DJ
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	1000	DJ

AECOM056 S146

1D

EPA SAMPLE NO.

SB-11(16'-18')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34727.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
86-73-7	Fluorene	5100	D
7005-72-3	4-Chlorophenyl-phenylether	4000	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	4000	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	19000	D
120-12-7	Anthracene	5800	D
86-74-8	Carbazole	4000	U
84-74-2	Di-n-butyl phthalate	4000	U
206-44-0	Fluoranthene	13000	D
129-00-0	Pyrene	21000	D
85-68-7	Butyl benzyl phthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	6600	D
218-01-9	Chrysene	6100	D
117-81-7	Bis(2-ethylhexyl)phthalate	4000	U
117-84-0	Di-n-octyl phthalate	4000	U
205-99-2	Benzo(b)fluoranthene	7100	D
207-08-9	Benzo(k)fluoranthene	2600	DJ
50-32-8	Benzo(a)pyrene	10000	D
193-39-5	Indeno(1,2,3-cd)pyrene	3300	DJ
53-70-3	Dibenzo(a,h)anthracene	1200	DJ
191-24-2	Benzo(g,h,i)perylene	3300	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S147

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11(32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34794.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 /500x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	3800	U
100-52-7	Benzaldehyde	3800	U J
108-95-2	Phenol	3800	U
111-44-4	Bis(2-chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	Bis(2-chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene 2300000 ~~1400000~~		~~E~~
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene 1100000 ~~1100000~~		~~E~~
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	3800	U
92-52-4	1,1'-Biphenyl	130000	~~E~~ J
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene 170000 ~~340000~~		~~E~~
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene 190000 ~~240000~~		~~E~~
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	30000	

AECOM056 S148

1D

EPA SAMPLE NO.

SB-11(32'-32.5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34794.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
86-73-7	Fluorene	252000 ~~330000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	3800	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	460000 ~~830000~~	~~E~~
120-12-7	Anthracene	230000 ~~250000~~	~~E~~
86-74-8	Carbazole	7800	
84-74-2	Di-n-butyl phthalate	3800	U
206-44-0	Fluoranthene	260000 ~~230000~~	~~E~~
129-00-0	Pyrene	340000 ~~300000~~	~~E~~
85-68-7	Butyl benzyl phthalate	3800	U
91-94-1	3,3´-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	150000	~~E~~ J
218-01-9	Chrysene	140000 ~~120000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octyl phthalate	3800	U
205-99-2	Benzo(b)fluoranthene	84000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	32000	
50-32-8	Benzo(a)pyrene	120000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	18000	
53-70-3	Dibenzo(a,h)anthracene	8600	
191-24-2	Benzo(g,h,i)perylene	16000	

(1) Cannot be separated from Diphenylamine

AECOM056 S149

1C

EPA SAMPLE NO.

SB-11(32'-32.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34795.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	190000	U
100-52-7	Benzaldehyde	190000	U
108-95-2	Phenol	190000	U
111-44-4	Bis(2-chloroethyl)ether	190000	U
95-57-8	2-Chlorophenol	190000	U
95-48-7	2-Methylphenol	190000	U
108-60-1	2,2'-oxybis(1-chloropropane)	190000	U
98-86-2	Acetophenone	190000	U
621-64-7	N-Nitroso-di-n-propylamine	190000	U
67-72-1	Hexachloroethane	190000	U
98-95-3	Nitrobenzene	190000	U
78-59-1	Isophorone	190000	U
88-75-5	2-Nitrophenol	190000	U
105-67-9	2,4-Dimethylphenol	190000	U
111-91-1	Bis(2-chloroethoxy)methane	190000	U
120-83-2	2,4-Dichlorophenol	190000	U
91-20-3	Naphthalene	2300000	D
106-47-8	4-Chloroaniline	190000	U
87-68-3	Hexachlorobutadiene	190000	U
105-60-2	Caprolactam	190000	U
59-50-7	4-Chloro-3-methylphenol	190000	U
91-57-6	2-Methylnaphthalene	1100000	D
77-47-4	Hexachlorocyclopentadiene	190000	U
88-06-2	2,4,6-Trichlorophenol	190000	U
95-95-4	2,4,5-Trichlorophenol	190000	U
92-52-4	1,1'-Biphenyl	97000	DJ
91-58-7	2-Chloronaphthalene	190000	U
88-74-4	2-Nitroaniline	190000	U
131-11-3	Dimethylphthalate	190000	U
606-20-2	2,6-Dinitrotoluene	190000	U
208-96-8	Acenaphthylene	270000	D
99-09-2	3-Nitroaniline	190000	U
83-32-9	Acenaphthene	190000	D
51-28-5	2,4-Dinitrophenol	190000	U
100-02-7	4-Nitrophenol	190000	U
132-64-9	Dibenzofuran	190000	U

AECOM056 S150

1D

EPA SAMPLE NO.

SB-11(32'-32.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34795.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	190000	U
84-66-2	Diethylphthalate	190000	U
86-73-7	Fluorene	250000	D
7005-72-3	4-Chlorophenyl-phenylether	190000	U
100-01-6	4-Nitroaniline	190000	U
534-52-1	4,6-Dinitro-2-methylphenol	190000	U
86-30-6	N-Nitrosodiphenylamine	190000	U
101-55-3	4-Bromophenyl-phenylether	190000	U
118-74-1	Hexachlorobenzene	190000	U
1912-24-9	Atrazine	190000	U
87-86-5	Pentachlorophenol	190000	U
85-01-8	Phenanthrene	960000	D
120-12-7	Anthracene	230000	D
86-74-8	Carbazole	190000	U
84-74-2	Di-n-butyl phthalate	190000	U
206-44-0	Fluoranthene	260000	D
129-00-0	Pyrene	360000	D
85-68-7	Butyl benzyl phthalate	190000	U
91-94-1	3,3'-Dichlorobenzidine	190000	U
56-55-3	Benzo(a)anthracene	150000	DJ
218-01-9	Chrysene	140000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	190000	U
117-84-0	Di-n-octyl phthalate	190000	U
205-99-2	Benzo(b)fluoranthene	57000	DJ
207-08-9	Benzo(k)fluoranthene	190000	U
50-32-8	Benzo(a)pyrene	100000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	190000	U
53-70-3	Dibenzo(a,h)anthracene	190000	U
191-24-2	Benzo(g,h,i)perylene	190000	U

(1) Cannot be separated from Diphenylamine

AECOM056 S151

1C

EPA SAMPLE NO.

SB-11(54'-56')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34682.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 30.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	480	U
100-52-7	Benzaldehyde	480	U J
108-95-2	Phenol	480	U
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2´-oxybis(1-chloropropane)	480	U
98-86-2	Acetophenone	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	250	J
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	150	J
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	480	U
92-52-4	1,1´-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	480	U
51-28-5	2,4-Dinitrophenol	480	U
100-02-7	4-Nitrophenol	480	U
132-64-9	Dibenzofuran	480	U

AECOM056 S152

1D

EPA SAMPLE NO.

SB-11(54'-56')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34682.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 30.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butyl phthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butyl benzyl phthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	Bis(2-ethylhexyl)phthalate	480	U
117-84-0	Di-n-octyl phthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

(1) Cannot be separated from Diphenylamine

AECOM056 S153

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34608.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 30.4 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	470	U
100-52-7	Benzaldehyde	190	J
108-95-2	Phenol	470	U
111-44-4	Bis(2-chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2´-oxybis(1-chloropropane)	470	U
98-86-2	Acetophenone	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	Bis(2-chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	300	J
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	470	U
92-52-4	1,1´-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	470	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	340	J
99-09-2	3-Nitroaniline	470	U
83-32-9	Acenaphthene	110	J
51-28-5	2,4-Dinitrophenol	470	UJ
100-02-7	4-Nitrophenol	470	U
132-64-9	Dibenzofuran	470	U

AECOM056 S154

1D

EPA SAMPLE NO.

SB-12(10'-12.2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34608.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 30.4 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	180	J
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	470	U
534-52-1	4,6-Dinitro-2-methylphenol	470	U
86-30-6	N-Nitrosodiphenylamine	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	470	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	420	J
86-74-8	Carbazole	160	J
84-74-2	Di-n-butyl phthalate	470	U
206-44-0	Fluoranthene	3500	
129-00-0	Pyrene	3400	
85-68-7	Butyl benzyl phthalate	470	U
91-94-1	3,3´-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	2200	
218-01-9	Chrysene	2000	
117-81-7	Bis(2-ethylhexyl)phthalate	110	J
117-84-0	Di-n-octyl phthalate	470	U
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	910	
50-32-8	Benzo(a)pyrene	2200	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	420	J
191-24-2	Benzo(g,h,i)perylene	1100	

(1) Cannot be separated from Diphenylamine

AECOM056 S155

1D

EPA SAMPLE NO.

SB-13(0'-1')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34610.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	170	J
100-52-7	Benzaldehyde	420	UJ
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	1000	
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	460	
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1'-Biphenyl	180	J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	140	J
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	2100	
51-28-5	2,4-Dinitrophenol	420	UJ
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	2100	

AECOM056 S156

1D

EPA SAMPLE NO.

SB-13(0'-1')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34610.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	3600	
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	38000 ~~28000~~	~~E~~
120-12-7	Anthracene	8200 ~~6800~~	~~E~~
86-74-8	Carbazole	2200	
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	38000 ~~24000~~	~~E~~
129-00-0	Pyrene	28000 ~~19000~~	~~E~~
85-68-7	Butyl benzyl phthalate	1100	
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	15000 ~~13000~~	~~E~~
218-01-9	Chrysene	13000 ~~8000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	3300	
117-84-0	Di-n-octyl phthalate	420	U
205-99-2	Benzo(b)fluoranthene	16000 ~~12000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	2900	
50-32-8	Benzo(a)pyrene	10000 ~~8300~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2500	
53-70-3	Dibenzo(a,h)anthracene	930	
191-24-2	Benzo(g,h,i)perylene	2000	

(1) Cannot be separated from Diphenylamine

AECOM056 S157

1C

EPA SAMPLE NO.

SB-13(0'-1')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34669.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4200	U
100-52-7	Benzaldehyde	4200	U
108-95-2	Phenol	4200	U
111-44-4	Bis(2-chloroethyl)ether	4200	U
95-57-8	2-Chlorophenol	4200	U
95-48-7	2-Methylphenol	4200	U
108-60-1	2,2'-oxybis(1-chloropropane)	4200	U
98-86-2	Acetophenone	4200	U
621-64-7	N-Nitroso-di-n-propylamine	4200	U
67-72-1	Hexachloroethane	4200	U
98-95-3	Nitrobenzene	4200	U
78-59-1	Isophorone	4200	U
88-75-5	2-Nitrophenol	4200	U
105-67-9	2,4-Dimethylphenol	4200	U
111-91-1	Bis(2-chloroethoxy)methane	4200	U
120-83-2	2,4-Dichlorophenol	4200	U
91-20-3	Naphthalene	1200	DJ
106-47-8	4-Chloroaniline	4200	U
87-68-3	Hexachlorobutadiene	4200	U
105-60-2	Caprolactam	4200	U
59-50-7	4-Chloro-3-methylphenol	4200	U
91-57-6	2-Methylnaphthalene	4200	U
77-47-4	Hexachlorocyclopentadiene	4200	U
88-06-2	2,4,6-Trichlorophenol	4200	U
95-95-4	2,4,5-Trichlorophenol	4200	U
92-52-4	1,1'-Biphenyl	4200	U
91-58-7	2-Chloronaphthalene	4200	U
88-74-4	2-Nitroaniline	4200	U
131-11-3	Dimethylphthalate	4200	U
606-20-2	2,6-Dinitrotoluene	4200	U
208-96-8	Acenaphthylene	4200	U
99-09-2	3-Nitroaniline	4200	U
83-32-9	Acenaphthene	2500	DJ
51-28-5	2,4-Dinitrophenol	4200	U
100-02-7	4-Nitrophenol	4200	U
132-64-9	Dibenzofuran	2400	DJ

AECOM056 S158

1D

EPA SAMPLE NO.

SB-13(0'-1')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34669.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4200	U
84-66-2	Diethylphthalate	4200	U
86-73-7	Fluorene	4000	DJ
7005-72-3	4-Chlorophenyl-phenylether	4200	U
100-01-6	4-Nitroaniline	4200	U
534-52-1	4,6-Dinitro-2-methylphenol	4200	U
86-30-6	N-Nitrosodiphenylamine	4200	U
101-55-3	4-Bromophenyl-phenylether	4200	U
118-74-1	Hexachlorobenzene	4200	U
1912-24-9	Atrazine	4200	U
87-86-5	Pentachlorophenol	4200	U
85-01-8	Phenanthrene	38000	D
120-12-7	Anthracene	8200	D
86-74-8	Carbazole	2600	DJ
84-74-2	Di-n-butyl phthalate	4200	U
206-44-0	Fluoranthene	38000	D
129-00-0	Pyrene	28000	D
85-68-7	Butyl benzyl phthalate	1200	DJ
91-94-1	3,3'-Dichlorobenzidine	4200	U
56-55-3	Benzo(a)anthracene	15000	D
218-01-9	Chrysene	13000	D
117-81-7	Bis(2-ethylhexyl)phthalate	3500	DJ
117-84-0	Di-n-octyl phthalate	4200	U
205-99-2	Benzo(b)fluoranthene	10000	D
207-08-9	Benzo(k)fluoranthene	6600	D
50-32-8	Benzo(a)pyrene	10000	D
193-39-5	Indeno(1,2,3-cd)pyrene	4600	D
53-70-3	Dibenzo(a,h)anthracene	1600	DJ
191-24-2	Benzo(g,h,i)perylene	4400	D

(1) Cannot be separated from Diphenylamine

AECOM056 S159

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34670.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 20.00 / 2000 ✗

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	2300	J
100-52-7	Benzaldehyde	9100	U J
108-95-2	Phenol	3100	J
111-44-4	Bis(2-chloroethyl)ether	9100	U
95-57-8	2-Chlorophenol	9100	U
95-48-7	2-Methylphenol	9100	U
108-60-1	2,2´-oxybis(1-chloropropane)	9100	U
98-86-2	Acetophenone	9100	U
621-64-7	N-Nitroso-di-n-propylamine	9100	U
67-72-1	Hexachloroethane	9100	U
98-95-3	Nitrobenzene	9100	U
78-59-1	Isophorone	9100	U
88-75-5	2-Nitrophenol	9100	U
105-67-9	2,4-Dimethylphenol	9100	U
111-91-1	Bis(2-chloroethoxy)methane	9100	U
120-83-2	2,4-Dichlorophenol	9100	U
91-20-3	Naphthalene 14000000 ~~6900000~~	~~E~~	
106-47-8	4-Chloroaniline	9100	U
87-68-3	Hexachlorobutadiene	9100	U
105-60-2	Caprolactam	9100	U
59-50-7	4-Chloro-3-methylphenol	9100	U
91-57-6	2-Methylnaphthalene	1000000	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	9100	U
88-06-2	2,4,6-Trichlorophenol	9100	U
95-95-4	2,4,5-Trichlorophenol	9100	U
92-52-4	1,1´-Biphenyl	42000	
91-58-7	2-Chloronaphthalene	9100	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethylphthalate	9100	U
606-20-2	2,6-Dinitrotoluene	9100	U
208-96-8	Acenaphthylene	92000	
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	130000	
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	35000	

AECOM056 S160

1D

EPA SAMPLE NO.

SB-13(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34670.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	9100	U
84-66-2	Diethylphthalate	9100	U
86-73-7	Fluorene	99000	
7005-72-3	4-Chlorophenyl-phenylether	9100	U
100-01-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine	9100	U
101-55-3	4-Bromophenyl-phenylether	9100	U
118-74-1	Hexachlorobenzene	9100	U
1912-24-9	Atrazine	9100	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	280000 ~~280000~~	~~E~~ J
120-12-7	Anthracene	71000	
86-74-8	Carbazole	10000	
84-74-2	Di-n-butyl phthalate	9100	U
206-44-0	Fluoranthene	110000	
129-00-0	Pyrene	110000	
85-68-7	Butyl benzyl phthalate	9100	U
91-94-1	3,3'-Dichlorobenzidine	9100	U
56-55-3	Benzo(a)anthracene	46000	
218-01-9	Chrysene	41000	
117-81-7	Bis(2-ethylhexyl)phthalate	9100	U
117-84-0	Di-n-octyl phthalate	9100	U
205-99-2	Benzo(b)fluoranthene	24000	
207-08-9	Benzo(k)fluoranthene	15000	
50-32-8	Benzo(a)pyrene	32000	
193-39-5	Indeno(1,2,3-cd)pyrene	10000	
53-70-3	Dibenzo(a,h)anthracene	3900	J
191-24-2	Benzo(g,h,i)perylene	9900	

(1) Cannot be separated from Diphenylamine

AECOM056 S161

1C

EPA SAMPLE NO.

SB-13(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34731.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	910000	U
100-52-7	Benzaldehyde	910000	U
108-95-2	Phenol	910000	U
111-44-4	Bis(2-chloroethyl)ether	910000	U
95-57-8	2-Chlorophenol	910000	U
95-48-7	2-Methylphenol	910000	U
108-60-1	2,2´-oxybis(1-chloropropane)	910000	U
98-86-2	Acetophenone	910000	U
621-64-7	N-Nitroso-di-n-propylamine	910000	U
67-72-1	Hexachloroethane	910000	U
98-95-3	Nitrobenzene	910000	U
78-59-1	Isophorone	910000	U
88-75-5	2-Nitrophenol	910000	U
105-67-9	2,4-Dimethylphenol	910000	U
111-91-1	Bis(2-chloroethoxy)methane	910000	U
120-83-2	2,4-Dichlorophenol	910000	U
91-20-3	Naphthalene	14000000	D
106-47-8	4-Chloroaniline	910000	U
87-68-3	Hexachlorobutadiene	910000	U
105-60-2	Caprolactam	910000	U
59-50-7	4-Chloro-3-methylphenol	910000	U
91-57-6	2-Methylnaphthalene	530000	DJ
77-47-4	Hexachlorocyclopentadiene	910000	U
88-06-2	2,4,6-Trichlorophenol	910000	U
95-95-4	2,4,5-Trichlorophenol	910000	U
92-52-4	1,1´-Biphenyl	910000	U
91-58-7	2-Chloronaphthalene	910000	U
88-74-4	2-Nitroaniline	910000	U
131-11-3	Dimethylphthalate	910000	U
606-20-2	2,6-Dinitrotoluene	910000	U
208-96-8	Acenaphthylene	910000	U
99-09-2	3-Nitroaniline	910000	U
83-32-9	Acenaphthene	910000	U
51-28-5	2,4-Dinitrophenol	910000	U
100-02-7	4-Nitrophenol	910000	U
132-64-9	Dibenzofuran	910000	U

repeat mg a/s

AECOM056 S162

1D

EPA SAMPLE NO.

SB-13(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34731.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	910000	U
84-66-2	Diethylphthalate	910000	U
86-73-7	Fluorene	910000	U
7005-72-3	4-Chlorophenyl-phenylether	910000	U
100-01-6	4-Nitroaniline	910000	U
534-52-1	4,6-Dinitro-2-methylphenol	910000	U
86-30-6	N-Nitrosodiphenylamine	910000	U
101-55-3	4-Bromophenyl-phenylether	910000	U
118-74-1	Hexachlorobenzene	910000	U
1912-24-9	Atrazine	910000	U
87-86-5	Pentachlorophenol	910000	U
85-01-8	Phenanthrene	290000	DJ
120-12-7	Anthracene	910000	U
86-74-8	Carbazole	910000	U
84-74-2	Di-n-butyl phthalate	910000	U
206-44-0	Fluoranthene	910000	U
129-00-0	Pyrene	910000	U
85-68-7	Butyl benzyl phthalate	910000	U
91-94-1	3,3´-Dichlorobenzidine	910000	U
56-55-3	Benzo(a)anthracene	910000	U
218-01-9	Chrysene	910000	U
117-81-7	Bis(2-ethylhexyl)phthalate	910000	U
117-84-0	Di-n-octyl phthalate	910000	U
205-99-2	Benzo(b)fluoranthene	910000	U
207-08-9	Benzo(k)fluoranthene	910000	U
50-32-8	Benzo(a)pyrene	910000	U
193-39-5	Indeno(1,2,3-cd)pyrene	910000	U
53-70-3	Dibenzo(a,h)anthracene	910000	U
191-24-2	Benzo(g,h,i)perylene	910000	U

(1) Cannot be separated from Diphenylamine

AECOM056 S163

1C

EPA SAMPLE NO.

SB-15(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34612.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 407

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	99000 ~~67000~~	~~E~~
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	160000 ~~76000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	11000 ~~11000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	6000	
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	38000 ~~29000~~	~~E~~
51-28-5	2,4-Dinitrophenol	420	U J
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	3200	

AECOM056 S164

1D

EPA SAMPLE NO.

SB-15(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34612.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	36000 ~~30000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	140000 ~~98000~~	~~E~~
120-12-7	Anthracene	31000 ~~29000~~	~~E~~
86-74-8	Carbazole	1600	
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	38000 ~~27000~~	~~E~~
129-00-0	Pyrene	65000 ~~62000~~	~~E~~
85-68-7	Butyl benzyl phthalate	420	U J
91-94-1	3,3'-Dichlorobenzidine	420	U J
56-55-3	Benzo(a)anthracene	24000 ~~28000~~	~~E~~
218-01-9	Chrysene	24000 ~~17000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	420	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~420~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	13000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	5800	J
50-32-8	Benzo(a)pyrene	14000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3	Dibenzo(a,h)anthracene	1600	J
191-24-2	Benzo(g,h,i)perylene	3500	J

(1) Cannot be separated from Diphenylamine

AECOM056 S165

1C

EPA SAMPLE NO.

SB-15(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34671.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	17000	U
100-52-7	Benzaldehyde	17000	U
108-95-2	Phenol	17000	U
111-44-4	Bis(2-chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-chloropropane)	17000	U
98-86-2	Acetophenone	17000	U
621-64-7	N-Nitroso-di-n-propylamine	17000	U
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	Bis(2-chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
91-20-3	Naphthalene	99000	D
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
105-60-2	Caprolactam	17000	U
59-50-7	4-Chloro-3-methylphenol	17000	U
91-57-6	2-Methylnaphthalene	100000	D
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	17000	U
92-52-4	1,1'-Biphenyl	11000	DJ
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	17000	U
131-11-3	Dimethylphthalate	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
208-96-8	Acenaphthylene	5600	DJ
99-09-2	3-Nitroaniline	17000	U
83-32-9	Acenaphthene	38000	D
51-28-5	2,4-Dinitrophenol	17000	U
100-02-7	4-Nitrophenol	17000	U
132-64-9	Dibenzofuran	3500	DJ

AECOM056 S166

1D

EPA SAMPLE NO.

SB-15(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34671.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	17000	U
84-66-2	Diethylphthalate	17000	U
86-73-7	Fluorene	36000	D
7005-72-3	4-Chlorophenyl-phenylether	17000	U
100-01-6	4-Nitroaniline	17000	U
534-52-1	4,6-Dinitro-2-methylphenol	17000	U
86-30-6	N-Nitrosodiphenylamine	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
1912-24-9	Atrazine	17000	U
87-86-5	Pentachlorophenol	17000	U
85-01-8	Phenanthrene	140000	D
120-12-7	Anthracene	39000	D
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butyl phthalate	17000	U
206-44-0	Fluoranthene	38000	D
129-00-0	Pyrene	65000	D
85-68-7	Butyl benzyl phthalate	17000	U
91-94-1	3,3´-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	26000	D
218-01-9	Chrysene	24000	D
117-81-7	Bis(2-ethylhexyl)phthalate	17000	U
117-84-0	Di-n-octyl phthalate	17000	U
205-99-2	Benzo(b)fluoranthene	9600	DJ
207-08-9	Benzo(k)fluoranthene	5200	DJ
50-32-8	Benzo(a)pyrene	13000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	4300	DJ
53-70-3	Dibenzo(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	5200	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S167

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34613.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 100 X

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	490000 ~~270000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	280000 ~~230000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	27000 ~~25000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	110000 ~~76000~~	~~E~~
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	18000 ~~16000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	400	U J
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	8600 ~~8200~~	~~E~~ J

AECOM056 S168

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-15(38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34613.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	79000 ~~71000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	290000 ~~210000~~	~~E~~
120-12-7	Anthracene	70000 ~~52000~~	~~E~~
86-74-8	Carbazole	1900	
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	80000 ~~58000~~	~~E~~
129-00-0	Pyrene	130000 ~~110000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	U J
91-94-1	3,3'-Dichlorobenzidine	400	U J
56-55-3	Benzo(a)anthracene	52000 ~~58000~~	~~E~~
218-01-9	Chrysene	47000 ~~23000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	400	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~400~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	28000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	10000 ~~9900~~	~~E~~ J
50-32-8	Benzo(a)pyrene	35000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	8500 ~~6600~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	2900	J
191-24-2	Benzo(g,h,i)perylene	11000 ~~7500~~	~~E~~ J

(1) Cannot be separated from Diphenylamine

AECOM056 S169

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34672.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	40000	U
100-52-7	Benzaldehyde	40000	U
108-95-2	Phenol	40000	U
111-44-4	Bis(2-chloroethyl)ether	40000	U
95-57-8	2-Chlorophenol	40000	U
95-48-7	2-Methylphenol	40000	U
108-60-1	2,2´-oxybis(1-chloropropane)	40000	U
98-86-2	Acetophenone	40000	U
621-64-7	N-Nitroso-di-n-propylamine	40000	U
67-72-1	Hexachloroethane	40000	U
98-95-3	Nitrobenzene	40000	U
78-59-1	Isophorone	40000	U
88-75-5	2-Nitrophenol	40000	U
105-67-9	2,4-Dimethylphenol	40000	U
111-91-1	Bis(2-chloroethoxy)methane	40000	U
120-83-2	2,4-Dichlorophenol	40000	U
91-20-3	Naphthalene	490000	D
106-47-8	4-Chloroaniline	40000	U
87-68-3	Hexachlorobutadiene	40000	U
105-60-2	Caprolactam	40000	U
59-50-7	4-Chloro-3-methylphenol	40000	U
91-57-6	2-Methylnaphthalene	280000	D
77-47-4	Hexachlorocyclopentadiene	40000	U
88-06-2	2,4,6-Trichlorophenol	40000	U
95-95-4	2,4,5-Trichlorophenol	40000	U
92-52-4	1,1´-Biphenyl	27000	DJ
91-58-7	2-Chloronaphthalene	40000	U
88-74-4	2-Nitroaniline	40000	U
131-11-3	Dimethylphthalate	40000	U
606-20-2	2,6-Dinitrotoluene	40000	U
208-96-8	Acenaphthylene	110000	D
99-09-2	3-Nitroaniline	40000	U
83-32-9	Acenaphthene	18000	DJ
51-28-5	2,4-Dinitrophenol	40000	U
100-02-7	4-Nitrophenol	40000	U
132-64-9	Dibenzofuran	8600	DJ

AECOM056 S170

1D

EPA SAMPLE NO.

SB-15(38'-40')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34672.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	40000	U
84-66-2	Diethylphthalate	40000	U
86-73-7	Fluorene	79000	D
7005-72-3	4-Chlorophenyl-phenylether	40000	U
100-01-6	4-Nitroaniline	40000	U
534-52-1	4,6-Dinitro-2-methylphenol	40000	U
86-30-6	N-Nitrosodiphenylamine	40000	U
101-55-3	4-Bromophenyl-phenylether	40000	U
118-74-1	Hexachlorobenzene	40000	U
1912-24-9	Atrazine	40000	U
87-86-5	Pentachlorophenol	40000	U
85-01-8	Phenanthrene	290000	D
120-12-7	Anthracene	70000	D
86-74-8	Carbazole	40000	U
84-74-2	Di-n-butyl phthalate	40000	U
206-44-0	Fluoranthene	80000	D
129-00-0	Pyrene	130000	D
85-68-7	Butyl benzyl phthalate	40000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	52000	D
218-01-9	Chrysene	47000	D
117-81-7	Bis(2-ethylhexyl)phthalate	40000	U
117-84-0	Di-n-octyl phthalate	40000	U
205-99-2	Benzo(b)fluoranthene	19000	DJ
207-08-9	Benzo(k)fluoranthene	10000	DJ
50-32-8	Benzo(a)pyrene	34000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	8500	DJ
53-70-3	Dibenzo(a,h)anthracene	40000	U
191-24-2	Benzo(g,h,i)perylene	11000	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S171

1C

EPA SAMPLE NO.

SB-15(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34569.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	440	U
100-52-7	Benzaldehyde	440	UJ
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2´-oxybis(1-chloropropane)	440	U
98-86-2	Acetophenone	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
92-52-4	1,1´-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	440	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	440	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	440	U
100-02-7	4-Nitrophenol	440	U
132-64-9	Dibenzofuran	440	U

AECOM056 S172

1D

EPA SAMPLE NO.

SB-15(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34569.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	440	U
534-52-1	4,6-Dinitro-2-methylphenol	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	400	J
120-12-7	Anthracene	100	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-butyl phthalate	440	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	300	J
85-68-7	Butyl benzyl phthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	91	J
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) Cannot be separated from Diphenylamine

AECOM056 S173

1C

EPA SAMPLE NO.

SB-18(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34572.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 23.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	430	U
100-52-7	Benzaldehyde	430	UJ
108-95-2	Phenol	430	U
111-44-4	Bis(2-chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2´-oxybis(1-chloropropane)	430	U
98-86-2	Acetophenone	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	Bis(2-chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	1500	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	500	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
92-52-4	1,1´-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	430	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	410	J
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	1300	
51-28-5	2,4-Dinitrophenol	430	U
100-02-7	4-Nitrophenol	430	U
132-64-9	Dibenzofuran	560	

AECOM056 S174

1D

EPA SAMPLE NO.

SB-18(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34572.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 23.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	1400	
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	4600	
120-12-7	Anthracene	1500	
86-74-8	Carbazole	430	U
84-74-2	Di-n-butyl phthalate	430	U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	3000	
85-68-7	Butyl benzyl phthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	1900	
218-01-9	Chrysene	1900	
117-81-7	Bis(2-ethylhexyl)phthalate	420	J
117-84-0	Di-n-octyl phthalate	430	U
205-99-2	Benzo(b)fluoranthene	1100	
207-08-9	Benzo(k)fluoranthene	450	
50-32-8	Benzo(a)pyrene	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	290	J
53-70-3	Dibenzo(a,h)anthracene	120	J
191-24-2	Benzo(g,h,i)perylene	300	J

(1) Cannot be separated from Diphenylamine

AECOM056 S175

1C

EPA SAMPLE NO.

SB-18(38'-40')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34570.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 17.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	UJ
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	400	U

AECOM056 S176

1D

EPA SAMPLE NO.

SB-18(38'-40')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34570.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 17.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

AECOM056 S177

1C

EPA SAMPLE NO.

SB-18(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34571.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 19.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM056 S178

1D

EPA SAMPLE NO.

SB-18(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34571.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 19.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM056 S179

1C

EPA SAMPLE NO.

TP-1(9')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34688.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /250X

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1800	
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	1500	J
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	760	
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	UJ
78-59-1	Isophorone	410	UJ
88-75-5	2-Nitrophenol	410	UJ
105-67-9	2,4-Dimethylphenol	410	UJ
111-91-1	Bis(2-chloroethoxy)methane	410	UJ
120-83-2	2,4-Dichlorophenol	410	UJ
91-20-3	Naphthalene	140000 ~~510000~~	~~E~~
106-47-8	4-Chloroaniline	410	UJ
87-68-3	Hexachlorobutadiene	410	UJ
105-60-2	Caprolactam	410	UJ
59-50-7	4-Chloro-3-methylphenol	410	UJ
91-57-6	2-Methylnaphthalene	110000 ~~120000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	31000 ~~20000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	32000 ~~20000~~	~~E~~ J
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	130000 ~~72000~~	~~E~~
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	140000 ~~73000~~	~~E~~

AECOM056 S180

1D

EPA SAMPLE NO.

TP-1(9')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34688.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	220000 ~~110000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	760000 ~~340000~~	~~E~~
120-12-7	Anthracene	200000 ~~75000~~	~~E~~
86-74-8	Carbazole	95000 ~~64000~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	~~110~~ 410	~~J~~ U
206-44-0	Fluoranthene	510000 ~~150000~~	~~E~~
129-00-0	Pyrene	320000 ~~280000~~	~~E~~
~~85-68-7~~	~~Butyl benzyl phthalate~~	~~410~~	~~U R~~
~~91-94-1~~	~~3,3'-Dichlorobenzidine~~	~~410~~	~~U R~~
56-55-3	Benzo(a)anthracene	190000 ~~160000~~	~~E~~
218-01-9	Chrysene	140000 ~~34000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	610	J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~410~~	~~U R~~
205-99-2	Benzo(b)fluoranthene	130000 ~~97000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	61000 ~~15000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	120000 ~~67000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	48000 ~~22000~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	8900	~~E~~ J
191-24-2	Benzo(g,h,i)perylene	74000 ~~17000~~	~~E~~ J

(1) Cannot be separated from Diphenylamine

AECOM056 S181

1C

EPA SAMPLE NO.

TP-1(9')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34730.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 250.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	100000	U
100-52-7	Benzaldehyde	100000	U
108-95-2	Phenol	100000	U
111-44-4	Bis(2-chloroethyl)ether	100000	U
95-57-8	2-Chlorophenol	100000	U
95-48-7	2-Methylphenol	100000	U
108-60-1	2,2'-oxybis(1-chloropropane)	100000	U
98-86-2	Acetophenone	100000	U
621-64-7	N-Nitroso-di-n-propylamine	100000	U
67-72-1	Hexachloroethane	100000	U
98-95-3	Nitrobenzene	100000	U
78-59-1	Isophorone	100000	U
88-75-5	2-Nitrophenol	100000	U
105-67-9	2,4-Dimethylphenol	100000	U
111-91-1	Bis(2-chloroethoxy)methane	100000	U
120-83-2	2,4-Dichlorophenol	100000	U
91-20-3	Naphthalene	1400000	D
106-47-8	4-Chloroaniline	100000	U
87-68-3	Hexachlorobutadiene	100000	U
105-60-2	Caprolactam	100000	U
59-50-7	4-Chloro-3-methylphenol	100000	U
91-57-6	2-Methylnaphthalene	110000	D
77-47-4	Hexachlorocyclopentadiene	100000	U
88-06-2	2,4,6-Trichlorophenol	100000	U
95-95-4	2,4,5-Trichlorophenol	100000	U
92-52-4	1,1'-Biphenyl	31000	DJ
91-58-7	2-Chloronaphthalene	100000	U
88-74-4	2-Nitroaniline	100000	U
131-11-3	Dimethylphthalate	100000	U
606-20-2	2,6-Dinitrotoluene	100000	U
208-96-8	Acenaphthylene	32000	DJ
99-09-2	3-Nitroaniline	100000	U
83-32-9	Acenaphthene	130000	D
51-28-5	2,4-Dinitrophenol	100000	U
100-02-7	4-Nitrophenol	100000	U
132-64-9	Dibenzofuran	140000	D

AECOM056 S182

1D

EPA SAMPLE NO.

TP-1(9')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34730.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 250.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	100000	U
84-66-2	Diethylphthalate	100000	U
86-73-7	Fluorene	220000	D
7005-72-3	4-Chlorophenyl-phenylether	100000	U
100-01-6	4-Nitroaniline	100000	U
534-52-1	4,6-Dinitro-2-methylphenol	100000	U
86-30-6	N-Nitrosodiphenylamine	100000	U
101-55-3	4-Bromophenyl-phenylether	100000	U
118-74-1	Hexachlorobenzene	100000	U
1912-24-9	Atrazine	100000	U
87-86-5	Pentachlorophenol	100000	U
85-01-8	Phenanthrene	700000	D
120-12-7	Anthracene	200000	D
86-74-8	Carbazole	95000	DJ
84-74-2	Di-n-butyl phthalate	100000	U
206-44-0	Fluoranthene	510000	D
129-00-0	Pyrene	320000	D
85-68-7	Butyl benzyl phthalate	100000	U
91-94-1	3,3'-Dichlorobenzidine	100000	U
56-55-3	Benzo(a)anthracene	190000	D
218-01-9	Chrysene	140000	D
117-81-7	Bis(2-ethylhexyl)phthalate	100000	U
117-84-0	Di-n-octyl phthalate	100000	U
205-99-2	Benzo(b)fluoranthene	130000	D
207-08-9	Benzo(k)fluoranthene	61000	DJ
50-32-8	Benzo(a)pyrene	120000	D
193-39-5	Indeno(1,2,3-cd)pyrene	48000	DJ
53-70-3	Dibenzo(a,h)anthracene	100000	U
191-24-2	Benzo(g,h,i)perylene	39000	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S183

1C

EPA SAMPLE NO.

TP-2(8.5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34728.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	3900	U
100-52-7	Benzaldehyde	3900	UJ
108-95-2	Phenol	3900	U
111-44-4	Bis(2-chloroethyl)ether	3900	U
95-57-8	2-Chlorophenol	3900	U
95-48-7	2-Methylphenol	3900	U
108-60-1	2,2´-oxybis(1-chloropropane)	3900	U
98-86-2	Acetophenone	3900	U
621-64-7	N-Nitroso-di-n-propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
111-91-1	Bis(2-chloroethoxy)methane	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
91-20-3	Naphthalene	3900	U
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	3900	U
105-60-2	Caprolactam	3900	U
59-50-7	4-Chloro-3-methylphenol	3900	U
91-57-6	2-Methylnaphthalene	3900	U
77-47-4	Hexachlorocyclopentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	3900	U
92-52-4	1,1´-Biphenyl	3900	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethylphthalate	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
208-96-8	Acenaphthylene	3900	U
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	3100	J
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	1000	J

AECOM056 S184

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2(8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34728.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
86-73-7	Fluorene	4100	
7005-72-3	4-Chlorophenyl-phenylether	3900	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine	3900	U
101-55-3	4-Bromophenyl-phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
1912-24-9	Atrazine	3900	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	16000	
120-12-7	Anthracene	5600	
86-74-8	Carbazole	840	J
84-74-2	Di-n-butyl phthalate	3900	U
206-44-0	Fluoranthene	21000	
129-00-0	Pyrene	21000	
85-68-7	Butyl benzyl phthalate	3900	U
91-94-1	3,3´-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	8400	
218-01-9	Chrysene	7300	
117-81-7	Bis(2-ethylhexyl)phthalate	3900	U
117-84-0	Di-n-octyl phthalate	3900	U
205-99-2	Benzo(b)fluoranthene	5800	
207-08-9	Benzo(k)fluoranthene	2700	J
50-32-8	Benzo(a)pyrene	5800	
193-39-5	Indeno(1,2,3-cd)pyrene	2500	J
53-70-3	Dibenzo(a,h)anthracene	3900	U
191-24-2	Benzo(g,h,i)perylene	2300	J

(1) Cannot be separated from Diphenylamine

AECOM056 S185

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00251.raw

% Moisture: Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) SEPF Date Extracted: 10/19/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/21/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00189.raw

% Moisture: 15 Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) PFEX Date Extracted: 10/15/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	79	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U
11096-82-5	Aroclor 1260	39	U
37324-23-5	Aroclor 1262	39	U
11100-14-4	Aroclor 1268	39	U

AECOM056 P22

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00036.raw

% Moisture: 21.9 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/08/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/12/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	42	U~~J~~
11104-28-2	Aroclor 1221	86	U
11141-16-5	Aroclor 1232	42	U~~J~~
53469-21-9	Aroclor 1242	140	J
12672-29-6	Aroclor 1248	42	U~~J~~
11097-69-1	Aroclor 1254	150	~~J~~ J
11096-82-5	Aroclor 1260	69	
37324-23-5	Aroclor 1262	42	U~~J~~
11100-14-4	Aroclor 1268	42	U

11/2/09

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00191.raw

% Moisture: 17.9 Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) PFEX Date Extracted: 10/15/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	40	U
53469-21-9	Aroclor 1242	40	U
12672-29-6	Aroclor 1248	40	U
11097-69-1	Aroclor 1254	40	U
11096-82-5	Aroclor 1260	77	J
37324-23-5	Aroclor 1262	40	U KJ
11100-14-4	Aroclor 1268	40	U

KJS 11/2/09

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-13 (0'-1')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910783-001

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 78.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4330			P
7440-36-0	Antimony	2.0	B	N J	P
7440-38-2	Arsenic	4.7		* J	P
7440-39-3	Barium	641			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	62200			P
7440-47-3	Chromium	27.5			P
7440-48-4	Cobalt	6.0	B	J	P
7440-50-8	Copper	53.3		* J	P
7439-89-6	Iron	22200			P
7439-92-1	Lead	533		*	P
7439-95-4	Magnesium	6290			P
7439-96-5	Manganese	~~187~~		N R	P
7439-97-6	Mercury	0.73		N J	CV
7440-02-0	Nickel	16.2			P
7440-09-7	Potassium	1500			P
7782-49-2	Selenium	0.55	B	N* J	P
7440-22-4	Silver	0.91	B	N J	P
7440-23-5	Sodium	722			P
7440-28-0	Thallium	0.84	B	J	P
7440-62-2	Vanadium	18.0			P
7440-66-6	Zinc	563		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-13 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910783-002

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 72.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4480			P
7440-36-0	Antimony	5.0	B	N J	P
7440-38-2	Arsenic	7.2		* J	P
7440-39-3	Barium	93.7			P
7440-41-7	Beryllium	0.44	B	J	P
7440-43-9	Cadmium	0.29	B	J	P
7440-70-2	Calcium	30200			P
7440-47-3	Chromium	18.3			P
7440-48-4	Cobalt	4.3	B	J	P
7440-50-8	Copper	85.4		* J	P
7439-89-6	Iron	17400			P
7439-92-1	Lead	219		*	P
7439-95-4	Magnesium	5810			P
7439-96-5	Manganese	~~213~~		N R	P
7439-97-6	Mercury	4.8		N J	CV
7440-02-0	Nickel	11.1			P
7440-09-7	Potassium	685	B	J	P
7782-49-2	Selenium	1.3		N* J	P
7440-22-4	Silver	0.25	B	N J	P
7440-23-5	Sodium	532	B	J	P
7440-28-0	Thallium	0.85	B	J	P
7440-62-2	Vanadium	21.2			P
7440-66-6	Zinc	133		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-002

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 69.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8250			P
7440-36-0	Antimony	4.7	B	N J	P
7440-38-2	Arsenic	30.0		* J	P
7440-39-3	Barium	401			P
7440-41-7	Beryllium	0.53	B	J	P
7440-43-9	Cadmium	2.1			P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	27.5			P
7440-48-4	Cobalt	12.4			P
7440-50-8	Copper	301		* J	P
7439-89-6	Iron	33000			P
7439-92-1	Lead	720		*	P
7439-95-4	Magnesium	2540			P
7439-96-5	Manganese	~~254~~		N R	P
7439-97-6	Mercury	1.7		N J	CV
7440-02-0	Nickel	25.8			P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	3.0		N* J	P
7440-22-4	Silver	1.2	B	N J	P
7440-23-5	Sodium	217	B	J	P
7440-28-0	Thallium	2.3			P
7440-62-2	Vanadium	30.5			P
7440-66-6	Zinc	1140		* J	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-003

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 78.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1620			P
7440-36-0	Antimony	1.1	B	N J	P
7440-38-2	Arsenic	6.1		N J	P
7440-39-3	Barium	51.6			P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.043	U		P
7440-70-2	Calcium	1110			P
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt	4.3	B	J	P
7440-50-8	Copper	81.6		N J	P
7439-89-6	Iron	15800			P
7439-92-1	Lead	393		N	P
7439-95-4	Magnesium	296	B	J	P
7439-96-5	Manganese	~~25.6~~		N R	P
7439-97-6	Mercury	0.069		N J	CV
7440-02-0	Nickel	11.7			P
7440-09-7	Potassium	188	B	J	P
7782-49-2	Selenium	16.7		N* J	P
7440-22-4	Silver	0.13	B	N J	P
7440-23-5	Sodium	153	B	J	P
7440-28-0	Thallium	0.98	B	J	P
7440-62-2	Vanadium	11.1			P
7440-66-6	Zinc	40.1		N J	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (38'-40')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-004

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8270			P
7440-36-0	Antimony	0.86	B	N J	P
7440-38-2	Arsenic	1.4		* J	P
7440-39-3	Barium	75.4			P
7440-41-7	Beryllium	0.45	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	9590			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	16.7		* J	P
7439-89-6	Iron	18600			P
7439-92-1	Lead	5.9		*	P
7439-95-4	Magnesium	8640			P
7439-96-5	Manganese	~~369~~		N R	P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	18.1			P
7440-09-7	Potassium	2910			P
7782-49-2	Selenium	0.30	U	N J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	530	B	J	P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	34.7			P
7440-66-6	Zinc	48.1		* J	P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (42'-44')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-005

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 74.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15600			P
7440-36-0	Antimony	1.3	B	N J	P
7440-38-2	Arsenic	2.3		* J	P
7440-39-3	Barium	157			P
7440-41-7	Beryllium	0.75			P
7440-43-9	Cadmium	0.046	U		P
7440-70-2	Calcium	11800			P
7440-47-3	Chromium	39.1			P
7440-48-4	Cobalt	16.1			P
7440-50-8	Copper	29.2		* J	P
7439-89-6	Iron	30900			P
7439-92-1	Lead	9.3		*	P
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	~~523~~		N R	P
7439-97-6	Mercury	0.022	U	N	CV
7440-02-0	Nickel	32.3			P
7440-09-7	Potassium	5820			P
7782-49-2	Selenium	0.33	U	N J	P
7440-22-4	Silver	0.11	U	N J	P
7440-23-5	Sodium	1630			P
7440-28-0	Thallium	1.1	B	J	P
7440-62-2	Vanadium	49.5			P
7440-66-6	Zinc	75.1		* J	P

Color Before: GREY Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-006

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1890			P
7440-36-0	Antimony	0.48	B	N J	P
7440-38-2	Arsenic	4.7		* J	P
7440-39-3	Barium	28.1			P
7440-41-7	Beryllium	0.20	B	J	P
7440-43-9	Cadmium	0.28	B	J	P
7440-70-2	Calcium	7210			P
7440-47-3	Chromium	5.3			P
7440-48-4	Cobalt	7.7			P
7440-50-8	Copper	112		* J	P
7439-89-6	Iron	7810			P
7439-92-1	Lead	29.0		*	P
7439-95-4	Magnesium	954			P
7439-96-5	Manganese	97.9		N R	P
7439-97-6	Mercury	0.15		N J	CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	443	B	J	P
7782-49-2	Selenium	0.47	B	N* J	P
7440-22-4	Silver	0.13	B	N J	P
7440-23-5	Sodium	138	B	J	P
7440-28-0	Thallium	0.42	U		P
7440-62-2	Vanadium	11.5			P
7440-66-6	Zinc	66.1		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (38'-40')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910860-001

Level (low/med): LOW Date Received: 10/5/2009

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6870			P
7440-36-0	Antimony	0.72	B	N J	P
7440-38-2	Arsenic	0.85	B	* J	P
7440-39-3	Barium	58.8			P
7440-41-7	Beryllium	0.36	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	10700			P
7440-47-3	Chromium	17.6			P
7440-48-4	Cobalt	8.5			P
7440-50-8	Copper	13.7		* J	P
7439-89-6	Iron	18100			P
7439-92-1	Lead	4.7		*	P
7439-95-4	Magnesium	8200			P
7439-96-5	Manganese	~~419~~		N R	P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	2310			P
7782-49-2	Selenium	0.30	U	N* J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	733			P
7440-28-0	Thallium	0.87	B	J	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	37.3		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (42'-44')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910860-002

Level (low/med): LOW Date Received: 10/5/2009

% Solids: 80.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	1.0	B	N J	P
7440-38-2	Arsenic	1.6		* J	P
7440-39-3	Barium	101			P
7440-41-7	Beryllium	0.59	B	J	P
7440-43-9	Cadmium	0.082	B	J	P
7440-70-2	Calcium	12400			P
7440-47-3	Chromium	29.5			P
7440-48-4	Cobalt	12.9			P
7440-50-8	Copper	23.3		* J	P
7439-89-6	Iron	24500			P
7439-92-1	Lead	8.1		*	P
7439-95-4	Magnesium	11100			P
7439-96-5	Manganese	~~476~~		N R	P
7439-97-6	Mercury	0.021	U	N	CV
7440-02-0	Nickel	24.7			P
7440-09-7	Potassium	4140			P
7782-49-2	Selenium	0.31	U	N J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	1400			P
7440-28-0	Thallium	0.95	B	J	P
7440-62-2	Vanadium	40.0			P
7440-66-6	Zinc	60.2		* J	P

Color Before: BLACK Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (16'-18')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-001

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5240			P
7440-36-0	Antimony	1.8	B	N J	P
7440-38-2	Arsenic	6.9		* J	P
7440-39-3	Barium	39.7			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	12.5			P
7440-48-4	Cobalt	10.5			P
7440-50-8	Copper	38.0		* J	P
7439-89-6	Iron	44600			P
7439-92-1	Lead	88.5		*	P
7439-95-4	Magnesium	1710			P
7439-96-5	Manganese	~~333~~		N R	P
7439-97-6	Mercury	0.17		N J	CV
7440-02-0	Nickel	19.9			P
7440-09-7	Potassium	869			P
7782-49-2	Selenium	2.9		N* J	P
7440-22-4	Silver	0.17	B	N J	P
7440-23-5	Sodium	253	B	J	P
7440-28-0	Thallium	4.4			P
7440-62-2	Vanadium	22.9			P
7440-66-6	Zinc	133		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-002

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2470			P
7440-36-0	Antimony	0.46	B	N J	P
7440-38-2	Arsenic	1.8		* J	P
7440-39-3	Barium	12.2	B	J	P
7440-41-7	Beryllium	0.13	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	1150			P
7440-47-3	Chromium	6.6			P
7440-48-4	Cobalt	3.6	B	J	P
7440-50-8	Copper	4.1		* J	P
7439-89-6	Iron	7770			P
7439-92-1	Lead	1.8		J *	P
7439-95-4	Magnesium	1530			P
7439-96-5	Manganese	~~80.4~~		N R	P
7439-97-6	Mercury	0.019	U	N	CV
7440-02-0	Nickel	5.8			P
7440-09-7	Potassium	569	B	J	P
7782-49-2	Selenium	0.29	U	N* J	P
7440-22-4	Silver	0.096	U	N J	P
7440-23-5	Sodium	198	B	J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	9.0			P
7440-66-6	Zinc	15.8		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (54'-56')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-003

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 69.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31600			P
7440-36-0	Antimony	2.7	B	N J	P
7440-38-2	Arsenic	3.2		J	P
7440-39-3	Barium	324			P
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	0.049	U		P
7440-70-2	Calcium	7020			P
7440-47-3	Chromium	77.3			P
7440-48-4	Cobalt	28.7			P
7440-50-8	Copper	44.7		J	P
7439-89-6	Iron	55200			P
7439-92-1	Lead	13.9			P
7439-95-4	Magnesium	20200			P
7439-96-5	Manganese	~~783~~		N R	P
7439-97-6	Mercury	0.024	U	N	CV
7440-02-0	Nickel	65.1			P
7440-09-7	Potassium	13500			P
7782-49-2	Selenium	0.36	U	N J	P
7440-22-4	Silver	0.12	U	N J	P
7440-23-5	Sodium	2160			P
7440-28-0	Thallium	2.9			P
7440-62-2	Vanadium	89.1			P
7440-66-6	Zinc	127		J	P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-2 (8.5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-004

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7770			P
7440-36-0	Antimony	1.3	B	N J	P
7440-38-2	Arsenic	6.0		* J	P
7440-39-3	Barium	111			P
7440-41-7	Beryllium	0.43	B	J	P
7440-43-9	Cadmium	0.44	B	J	P
7440-70-2	Calcium	13300			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	34.5		* J	P
7439-89-6	Iron	16100			P
7439-92-1	Lead	475		*	P
7439-95-4	Magnesium	3530			P
7439-96-5	Manganese	~~257~~		N R	P
7439-97-6	Mercury	1.6		N J	CV
7440-02-0	Nickel	21.4			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	0.42	B	N* J	P
7440-22-4	Silver	5.4		N J	P
7440-23-5	Sodium	142	B	J	P
7440-28-0	Thallium	0.89	B	J	P
7440-62-2	Vanadium	23.9			P
7440-66-6	Zinc	159		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-1 (9')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911044-001

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4240			P
7440-36-0	Antimony	4.7	B	N J	P
7440-38-2	Arsenic	29.1		* J	P
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.47	B	J	P
7440-43-9	Cadmium	0.97			P
7440-70-2	Calcium	8200			P
7440-47-3	Chromium	20.3			P
7440-48-4	Cobalt	5.7	B	J	P
7440-50-8	Copper	209		* J	P
7439-89-6	Iron	18700			P
7439-92-1	Lead	352		*	P
7439-95-4	Magnesium	1490			P
7439-96-5	Manganese	~~175~~		N R	P
7439-97-6	Mercury	0.74		N J	CV
7440-02-0	Nickel	18.3			P
7440-09-7	Potassium	664			P
7782-49-2	Selenium	1.6		N* J	P
7440-22-4	Silver	1.7		N J	P
7440-23-5	Sodium	250	B	J	P
7440-28-0	Thallium	1.6			P
7440-62-2	Vanadium	27.0			P
7440-66-6	Zinc	385		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP-3

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911044-002

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4630			P
7440-36-0	Antimony	2.2	B	N J	P
7440-38-2	Arsenic	3.8		* J	P
7440-39-3	Barium	214		J	P
7440-41-7	Beryllium	0.29	B	J	P
7440-43-9	Cadmium	0.20	B	J	P
7440-70-2	Calcium	5500			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	4.8	B	J	P
7440-50-8	Copper	55.5		* J	P
7439-89-6	Iron	10600			P
7439-92-1	Lead	142		*	P
7439-95-4	Magnesium	2330			P
7439-96-5	Manganese	~~124~~		N R	P
7439-97-6	Mercury	0.23		N J	CV
7440-02-0	Nickel	11.5			P
7440-09-7	Potassium	871			P
7782-49-2	Selenium	0.30	U	N* J	P
7440-22-4	Silver	0.099	U	N J	P
7440-23-5	Sodium	128	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	170		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M20

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911196-001

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7750			P
7440-36-0	Antimony	0.98	B	N J	P
7440-38-2	Arsenic	57.9		* J	P
7440-39-3	Barium	455			P
7440-41-7	Beryllium	0.53	B	J	P
7440-43-9	Cadmium	0.93			P
7440-70-2	Calcium	42800			P
7440-47-3	Chromium	26.2			P
7440-48-4	Cobalt	7.2			P
7440-50-8	Copper	212		* J	P
7439-89-6	Iron	8910			P
7439-92-1	Lead	302		*	P
7439-95-4	Magnesium	2390			P
7439-96-5	Manganese	~~189~~		N R	P
7439-97-6	Mercury	0.49		N J	CV
7440-02-0	Nickel	26.3			P
7440-09-7	Potassium	1150			P
7782-49-2	Selenium	0.29	U	N* J	P
7440-22-4	Silver	0.41	B	N J	P
7440-23-5	Sodium	687			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	365		* J	P

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M21

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (6)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911196-002

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4860			P
7440-36-0	Antimony	5.6	B	N J	P
7440-38-2	Arsenic	28.6		J	P
7440-39-3	Barium	234			P
7440-41-7	Beryllium	0.48	B	J	P
7440-43-9	Cadmium	0.80			P
7440-70-2	Calcium	3430			P
7440-47-3	Chromium	27.2			P
7440-48-4	Cobalt	11.1			P
7440-50-8	Copper	234		J	P
7439-89-6	Iron	31800			P
7439-92-1	Lead	376			P
7439-95-4	Magnesium	942			P
7439-96-5	Manganese	~~238~~		N R	P
7439-97-6	Mercury	0.79		N J	CV
7440-02-0	Nickel	30.1			P
7440-09-7	Potassium	569	B	J	P
7782-49-2	Selenium	3.2		N J	P
7440-22-4	Silver	0.86	B	N J	P
7440-23-5	Sodium	325	B	J	P
7440-28-0	Thallium	3.3			P
7440-62-2	Vanadium	38.8			P
7440-66-6	Zinc	388		J	P

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M22

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

RB2-101309

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): WATER Lab Sample ID: 0911196-003

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	3.0	U		P
7440-41-7	Beryllium	0.31	~~B~~	J	P
7440-43-9	Cadmium	0.44	~~B~~	J	P
7440-70-2	Calcium	85.0	~~B~~	J	P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	0.83	U		P
7439-89-6	Iron	168			P
7439-92-1	Lead	1.8	U	J	P
7439-95-4	Magnesium	17.6	~~B~~	J	P
7439-96-5	Manganese	2.2	~~B~~	J	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	56.8	~~B~~	J	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	60.8	~~B~~	J	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	6.6	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M23

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910783-001**

ClientSample ID. : **SB-13 (0'-1')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 9/27/2009 10:03:00 AM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		1	mg/Kg-dry	SW9014	10/09/2009 5:06 PM
Percent Moisture	21.9		1	wt%	D2216	10/05/2009 8:13 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W3

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910783-002

ClientSample ID. : SB-13 (12'-14')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected 9/28/2009 4:10:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To Original
CC

Report Reissued: 1/12/10

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	1.91		5	mg/Kg-dry	SW9014	10/09/2009 5:07 PM
Percent Moisture	27.6		1	wt%	D2216	10/05/2009 8:14 AM

REVISED
DATE: GAM 01/15/10

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910813-002

ClientSample ID. : SB-12 (10'-12.2')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/1/2009 4:30:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.72		1	mg/Kg-dry	SW9014	10/09/2009 5:08 PM
Percent Moisture	30.4		1	wt%	D2216	10/05/2009 8:25 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W5

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910813-003**

ClientSample ID. : **SB-15 (12'-14')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 9/30/2009 12:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		5	mg/Kg-dry	SW9014	10/14/2009 12:07 PM
Percent Moisture	21.6		1	wt%	D2216	10/05/2009 8:26 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W6

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910813-004**
ClientSample ID. : SB-15 (38'-40')

Sample Information...
Type : Soil

Origin:

Collected : 9/30/2009 12:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To : Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/15/2009 12:14 PM
Percent Moisture	17.5		1	wt%	D2216	10/05/2009 8:27 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W7

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910813-005

ClientSample ID. : SB-15 (42'-44')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :9/30/2009 12:00:00 PM
Received :10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.67		1	mg/Kg-dry	SW9014	10/15/2009 12:15 PM
Percent Moisture	25.8		1	wt%	D2216	10/05/2009 8:28 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W8

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910813-006**

ClientSample ID. : **SB-18 (12'-14')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/1/2009 5:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.66		1	mg/Kg-dry	SW9014	10/15/2009 12:16 PM
Percent Moisture	23.7		1	wt%	D2216	10/05/2009 8:29 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W9

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910860-001

ClientSample ID. : SB-18 (38'-40')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/2/2009 10:00:00 AM
Received : 10/5/2009 4:55:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/15/2009 12:17 PM
Percent Moisture	17.3		1	wt%	D2216	10/07/2009 11:45 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W10

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910860-002**

ClientSample ID. : **SB-18 (42'-44')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/2/2009 10:15:00 AM
Received : 10/5/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	10/15/2009 12:22 PM
Percent Moisture	19.5		1	wt%	D2216	10/07/2009 11:46 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W11

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910975-001**

ClientSample ID. : **SB-11 (16'-18')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/6/2009 5:00:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/20/2009 4:33 PM
Percent Moisture	16.8		1	wt%	D2216	10/12/2009 8:04 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W12

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910975-002**
ClientSample ID. : **SB-11 (32'-32.5')**

Sample Information...
Type : Soil

Origin:

Collected : 10/6/2009 4:45:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	10/16/2009 6:12 PM
Percent Moisture	14.1		1	wt%	D2216	10/12/2009 8:05 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W13

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910975-003**

ClientSample ID. : **SB-11 (54'-56')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/6/2009 4:40:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.72		1	mg/Kg-dry	SW9014	10/16/2009 6:13 PM
Percent Moisture	30.8		1	wt%	D2216	10/12/2009 8:06 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W14

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910975-004

ClientSample ID. : TP-2 (8.5)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/6/2009 1:45:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/16/2009 6:14 PM
Percent Moisture	15.9		1	wt%	D2216	10/12/2009 8:07 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W15

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911044-001
ClientSample ID. : TP-1 (9')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 12:50:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	10/20/2009 4:34 PM
Percent Moisture	18.9		1	wt%	D2216	10/12/2009 8:40 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W16

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911044-002**
ClientSample ID. : **DUP-3**

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/20/2009 11:16 AM
Percent Moisture	16.3		1	wt%	D2216	10/12/2009 8:41 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W17

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0911196-001**

ClientSample ID. : **SB-2B (5)**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :10/13/2009 3:45:00 PM
Received :10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59		1	mg/Kg-dry	SW9014	10/16/2009 6:16 PM
Percent Moisture	15.0		1	wt%	D2216	10/19/2009 11:28 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W18

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911196-002**
ClientSample ID. : **SB-6 (6)**

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 2:45:00 PM
Received : 10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/16/2009 6:17 PM
Percent Moisture	17.9		1	wt%	D2216	10/19/2009 11:46 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W19

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911196-003

ClientSample ID. : RB2-101309

Sample Information...
Type : Blank

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/13/2009 2:30:00 PM
Received : 10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 10.0		1	µg/L	SW9014	10/26/2009 4:39 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3501.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 21.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U J
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U J
75-09-2	Methylene chloride	19	~~B~~ U
67-64-1	Acetone	100	~~B~~ J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	13	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	30	
110-82-7	Cyclohexane	6	U J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	5	J
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S77

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3501.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 21.9 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	UJ
108-88-3	Toluene	10	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	25	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	17	
95-47-6	o-Xylene	11	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	3	J
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	3	J
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	UJ

AECOM056 S78

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3502.D

Level: (low/med) LOW / MLS Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00 / 20X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	69	U J
75-71-8	Dichlorodifluoromethane	69	U J
74-83-9	Bromomethane	69	U J
75-01-4	Vinyl chloride	69	U J
75-00-3	Chloroethane	69	U J
75-09-2	Methylene chloride	210	~~B~~ U J
67-64-1	Acetone	~~330~~ 350	~~BJ~~ U J
75-69-4	Trichlorofluoromethane	69	U J
75-35-4	1,1-Dichloroethene	69	U J
75-15-0	Carbon disulfide	45	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	69	U J
75-34-3	1,1-Dichloroethane	28	J
67-66-3	Chloroform	69	U J
107-06-2	1,2-Dichloroethane	69	U J
79-20-9	Methyl Acetate	69	U J
78-93-3	2-Butanone	64	J
71-55-6	1,1,1-Trichloroethane	69	U J
156-60-5	trans-1,2-Dichloroethene	69	U
56-23-5	Carbon tetrachloride	69	U
1634-04-4	Methyl tert-butyl ether	69	U
75-27-4	Bromodichloromethane	69	U
78-87-5	1,2-Dichloropropane	69	U
156-59-2	cis-1,2-Dichloroethene	69	U
10061-01-5	cis-1,3-Dichloropropene	69	U
79-01-6	Trichloroethene	69	U
124-48-1	Dibromochloromethane	69	U
79-00-5	1,1,2-Trichloroethane	69	U
71-43-2	Benzene	53000 ~~36000~~	~~E~~
110-82-7	Cyclohexane	69	U J
10061-02-6	trans-1,3-Dichloropropene	69	U J
75-25-2	Bromoform	69	U J
108-10-1	4-Methyl-2-pentanone	38	J
591-78-6	2-Hexanone	350	U J
127-18-4	Tetrachloroethene	69	U J
79-34-5	1,1,2,2-Tetrachloroethane	69	U J

AECOM056 S79

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3502.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/07/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	180	J
108-88-3	Toluene	130000 ~~39000~~	~~E~~
108-90-7	Chlorobenzene	69	U J
100-41-4	Ethylbenzene	130000 ~~30000~~	~~E~~
100-42-5	Styrene	60000 ~~11000~~	~~E~~
108-38-3/106-42-3	m,p-Xylene	190000 ~~33000~~	~~E~~
95-47-6	o-Xylene	81000 ~~18000~~	~~E~~
106-93-4	1,2-Dibromoethane	69	U J
98-82-8	Isopropylbenzene	3600	~~E~~ J report
541-73-1	1,3-Dichlorobenzene	69	U J
106-46-7	1,4-Dichlorobenzene	69	U J
95-50-1	1,2-Dichlorobenzene	69	U J
96-12-8	1,2-Dibromo-3-chloropropane	69	U J
120-82-1	1,2,4-Trichlorobenzene	69	U J

AECOM056 S80

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66795.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	17000	U
75-71-8	Dichlorodifluoromethane	17000	U
74-83-9	Bromomethane	17000	U
75-01-4	Vinyl chloride	17000	U
75-00-3	Chloroethane	17000	U
75-09-2	Methylene chloride	17000	U
67-64-1	Acetone	86000	U
75-69-4	Trichlorofluoromethane	17000	U
75-35-4	1,1-Dichloroethene	17000	U
75-15-0	Carbon disulfide	17000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17000	U
75-34-3	1,1-Dichloroethane	17000	U
67-66-3	Chloroform	17000	U
107-06-2	1,2-Dichloroethane	17000	U
79-20-9	Methyl Acetate	17000	U
78-93-3	2-Butanone	86000	U
71-55-6	1,1,1-Trichloroethane	17000	U
156-60-5	trans-1,2-Dichloroethene	17000	U
56-23-5	Carbon tetrachloride	17000	U
1634-04-4	Methyl tert-butyl ether	17000	U
75-27-4	Bromodichloromethane	17000	U
78-87-5	1,2-Dichloropropane	17000	U
156-59-2	cis-1,2-Dichloroethene	17000	U
10061-01-5	cis-1,3-Dichloropropene	17000	U
79-01-6	Trichloroethene	17000	U
124-48-1	Dibromochloromethane	17000	U
79-00-5	1,1,2-Trichloroethane	17000	U
71-43-2	Benzene	53000	D
110-82-7	Cyclohexane	17000	U
10061-02-6	trans-1,3-Dichloropropene	17000	U
75-25-2	Bromoform	17000	U
108-10-1	4-Methyl-2-pentanone	86000	U
591-78-6	2-Hexanone	86000	U
127-18-4	Tetrachloroethene	17000	U
79-34-5	1,1,2,2-Tetrachloroethane	17000	U

AECOM056 S81

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66795.D

Level: (low/med) MED Date Received: 09/30/09

% Moisture: not dec. 27.6 Date Analyzed: 10/08/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	17000	U
108-88-3	Toluene	130000	D
108-90-7	Chlorobenzene	17000	U
100-41-4	Ethylbenzene	130000	D
100-42-5	Styrene	60000	D
108-38-3/106-42-3	m,p-Xylene	190000	D
95-47-6	o-Xylene	83000	D
106-93-4	1,2-Dibromoethane	17000	U
98-82-8	Isopropylbenzene	17000	U
541-73-1	1,3-Dichlorobenzene	17000	U
106-46-7	1,4-Dichlorobenzene	17000	U
95-50-1	1,2-Dichlorobenzene	17000	U
96-12-8	1,2-Dibromo-3-chloropropane	17000	U
120-82-1	1,2,4-Trichlorobenzene	17000	U

AECOM056 S82

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3540.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 30.4 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	36	U
75-71-8	Dichlorodifluoromethane	36	U
74-83-9	Bromomethane	36	U
75-01-4	Vinyl chloride	36	U
75-00-3	Chloroethane	36	U
75-09-2	Methylene chloride	~~100~~ 140	~~B~~ UJ
67-64-1	Acetone	~~99~~ 180	~~J~~ U
75-69-4	Trichlorofluoromethane	36	U
75-35-4	1,1-Dichloroethene	36	U
75-15-0	Carbon disulfide	36	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	36	U
75-34-3	1,1-Dichloroethane	36	U
67-66-3	Chloroform	36	U
107-06-2	1,2-Dichloroethane	36	U
79-20-9	Methyl Acetate	36	U
78-93-3	2-Butanone	21	J
71-55-6	1,1,1-Trichloroethane	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
56-23-5	Carbon tetrachloride	36	U
1634-04-4	Methyl tert-butyl ether	36	U
75-27-4	Bromodichloromethane	36	U
78-87-5	1,2-Dichloropropane	36	U
156-59-2	cis-1,2-Dichloroethene	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
79-01-6	Trichloroethene	36	U
124-48-1	Dibromochloromethane	36	U
79-00-5	1,1,2-Trichloroethane	36	U
71-43-2	Benzene	36	U
110-82-7	Cyclohexane	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U
75-25-2	Bromoform	36	U
108-10-1	4-Methyl-2-pentanone	180	U
591-78-6	2-Hexanone	180	U
127-18-4	Tetrachloroethene	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U

AECOM056 S83

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3540.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 30.4 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	36	U
108-88-3	Toluene	36	U
108-90-7	Chlorobenzene	36	U
100-41-4	Ethylbenzene	36	U
100-42-5	Styrene	36	U
108-38-3/106-42-3	m,p-Xylene	72	U
95-47-6	o-Xylene	36	U
106-93-4	1,2-Dibromoethane	36	U
98-82-8	Isopropylbenzene	36	U
541-73-1	1,3-Dichlorobenzene	36	U
106-46-7	1,4-Dichlorobenzene	36	U
95-50-1	1,2-Dichlorobenzene	36	U
96-12-8	1,2-Dibromo-3-chloropropane	36	U
120-82-1	1,2,4-Trichlorobenzene	36	U

AECOM056 S84

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3541.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	64	U
75-71-8	Dichlorodifluoromethane	64	U
74-83-9	Bromomethane	64	U
75-01-4	Vinyl chloride	64	U
75-00-3	Chloroethane	64	U
75-09-2	Methylene chloride	~~180~~ 240	~~B~~ UJ
67-64-1	Acetone	~~130~~ 320	~~J~~ U
75-69-4	Trichlorofluoromethane	64	U
75-35-4	1,1-Dichloroethene	64	U
75-15-0	Carbon disulfide	23	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	64	U
75-34-3	1,1-Dichloroethane	64	U
67-66-3	Chloroform	64	U
107-06-2	1,2-Dichloroethane	64	U
79-20-9	Methyl Acetate	64	U
78-93-3	2-Butanone	39	J
71-55-6	1,1,1-Trichloroethane	64	U
156-60-5	trans-1,2-Dichloroethene	64	U
56-23-5	Carbon tetrachloride	64	U
1634-04-4	Methyl tert-butyl ether	64	U
75-27-4	Bromodichloromethane	64	U
78-87-5	1,2-Dichloropropane	64	U
156-59-2	cis-1,2-Dichloroethene	64	U
10061-01-5	cis-1,3-Dichloropropene	64	U
79-01-6	Trichloroethene	64	U
124-48-1	Dibromochloromethane	64	U
79-00-5	1,1,2-Trichloroethane	64	U
71-43-2	Benzene	~~4100~~ J 3400	~~E~~
110-82-7	Cyclohexane	64	U
10061-02-6	trans-1,3-Dichloropropene	64	U
75-25-2	Bromoform	64	U
108-10-1	4-Methyl-2-pentanone	320	U
591-78-6	2-Hexanone	320	U
127-18-4	Tetrachloroethene	64	U
79-34-5	1,1,2,2-Tetrachloroethane	64	U

AECOM056 S85

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3541.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	64	U
108-88-3	Toluene	370	
108-90-7	Chlorobenzene	64	U
100-41-4	Ethylbenzene	24000 ~~14000~~	~~E~~
100-42-5	Styrene	64	U
108-38-3/106-42-3	m,p-Xylene	13000 ~~6800~~	~~E~~
95-47-6	o-Xylene	23000 ~~9400~~	~~E~~
106-93-4	1,2-Dibromoethane	64	U
98-82-8	Isopropylbenzene	1700	
541-73-1	1,3-Dichlorobenzene	64	U
106-46-7	1,4-Dichlorobenzene	64	U
95-50-1	1,2-Dichlorobenzene	64	U
96-12-8	1,2-Dibromo-3-chloropropane	64	U
120-82-1	1,2,4-Trichlorobenzene	64	U

AECOM056 S86

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66827.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	800	U
75-71-8	Dichlorodifluoromethane	800	U
74-83-9	Bromomethane	800	U
75-01-4	Vinyl chloride	800	U
75-00-3	Chloroethane	800	U
75-09-2	Methylene chloride	180	DJ
67-64-1	Acetone	550	J
75-69-4	Trichlorofluoromethane	800	U
75-35-4	1,1-Dichloroethene	800	U
75-15-0	Carbon disulfide	800	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	800	U
75-34-3	1,1-Dichloroethane	800	U
67-66-3	Chloroform	800	U
107-06-2	1,2-Dichloroethane	800	U
79-20-9	Methyl Acetate	800	U
78-93-3	2-Butanone	660	DBJ
71-55-6	1,1,1-Trichloroethane	800	U
156-60-5	trans-1,2-Dichloroethene	800	U
56-23-5	Carbon tetrachloride	800	U
1634-04-4	Methyl tert-butyl ether	800	U
75-27-4	Bromodichloromethane	800	U
78-87-5	1,2-Dichloropropane	800	U
156-59-2	cis-1,2-Dichloroethene	800	U
10061-01-5	cis-1,3-Dichloropropene	800	U
79-01-6	Trichloroethene	800	U
124-48-1	Dibromochloromethane	800	U
79-00-5	1,1,2-Trichloroethane	800	U
71-43-2	Benzene	2300	D
110-82-7	Cyclohexane	800	U
10061-02-6	trans-1,3-Dichloropropene	800	U
75-25-2	Bromoform	800	U
108-10-1	4-Methyl-2-pentanone	4000	U
591-78-6	2-Hexanone	4000	U
127-18-4	Tetrachloroethene	800	U
79-34-5	1,1,2,2-Tetrachloroethane	800	U

AECOM056 S87

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-15 (12'-14')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66827.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 21.6 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	800	U
108-88-3	Toluene	370	DJ
108-90-7	Chlorobenzene	800	U
100-41-4	Ethylbenzene	26000	D
100-42-5	Styrene	800	U
108-38-3/106-42-3	m,p-Xylene	13000	D
95-47-6	o-Xylene	23000	D
106-93-4	1,2-Dibromoethane	800	U
98-82-8	Isopropylbenzene	6900	D
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
95-50-1	1,2-Dichlorobenzene	800	U
96-12-8	1,2-Dibromo-3-chloropropane	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U

AECOM056 S88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3542.D

Level: (low/med) LOW / MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	61	U
75-71-8	Dichlorodifluoromethane	61	U
74-83-9	Bromomethane	61	U
75-01-4	Vinyl chloride	61	U
75-00-3	Chloroethane	61	U
75-09-2	Methylene chloride	~~170~~ 230	~~B~~ UJ
67-64-1	Acetone	~~57~~ 300	~~J~~ U
75-69-4	Trichlorofluoromethane	61	U
75-35-4	1,1-Dichloroethene	61	U
75-15-0	Carbon disulfide	61	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	61	U
75-34-3	1,1-Dichloroethane	61	U
67-66-3	Chloroform	61	U
107-06-2	1,2-Dichloroethane	61	U
79-20-9	Methyl Acetate	61	U
78-93-3	2-Butanone	300	U
71-55-6	1,1,1-Trichloroethane	61	U
156-60-5	trans-1,2-Dichloroethene	61	U
56-23-5	Carbon tetrachloride	61	U
1634-04-4	Methyl tert-butyl ether	61	U
75-27-4	Bromodichloromethane	61	U
78-87-5	1,2-Dichloropropane	61	U
156-59-2	cis-1,2-Dichloroethene	13	J
10061-01-5	cis-1,3-Dichloropropene	61	U
79-01-6	Trichloroethene	61	U
124-48-1	Dibromochloromethane	61	U
79-00-5	1,1,2-Trichloroethane	61	U
71-43-2	Benzene	7100 ~~7800~~	~~E~~
110-82-7	Cyclohexane	61	U
10061-02-6	trans-1,3-Dichloropropene	61	U
75-25-2	Bromoform	61	U
108-10-1	4-Methyl-2-pentanone	300	U
591-78-6	2-Hexanone	300	U
127-18-4	Tetrachloroethene	61	U
79-34-5	1,1,2,2-Tetrachloroethane	61	U

AECOM056 S89

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3542.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	61	U
108-88-3	Toluene	6900 ~~6300~~	~~E~~
108-90-7	Chlorobenzene	61	U
100-41-4	Ethylbenzene	15000 ~~8000~~	~~E~~
100-42-5	Styrene	2200	
108-38-3/106-42-3	m,p-Xylene	17000 ~~10000~~	~~E~~
95-47-6	o-Xylene	11000 ~~6000~~	~~E~~
106-93-4	1,2-Dibromoethane	61	U
98-82-8	Isopropylbenzene	190	
541-73-1	1,3-Dichlorobenzene	61	U
106-46-7	1,4-Dichlorobenzene	61	U
95-50-1	1,2-Dichlorobenzene	61	U
96-12-8	1,2-Dibromo-3-chloropropane	61	U
120-82-1	1,2,4-Trichlorobenzene	61	U

AECOM056 S90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66828.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	760	U
75-71-8	Dichlorodifluoromethane	760	U
74-83-9	Bromomethane	760	U
75-01-4	Vinyl chloride	760	U
75-00-3	Chloroethane	760	U
75-09-2	Methylene chloride	760	U
67-64-1	Acetone	3800	U
75-69-4	Trichlorofluoromethane	760	U
75-35-4	1,1-Dichloroethene	760	U
75-15-0	Carbon disulfide	760	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	760	U
75-34-3	1,1-Dichloroethane	760	U
67-66-3	Chloroform	760	U
107-06-2	1,2-Dichloroethane	760	U
79-20-9	Methyl Acetate	760	U
78-93-3	2-Butanone	740	BJ
71-55-6	1,1,1-Trichloroethane	760	U
156-60-5	trans-1,2-Dichloroethene	760	U
56-23-5	Carbon tetrachloride	760	U
1634-04-4	Methyl tert-butyl ether	760	U
75-27-4	Bromodichloromethane	760	U
78-87-5	1,2-Dichloropropane	760	U
156-59-2	cis-1,2-Dichloroethene	760	U
10061-01-5	cis-1,3-Dichloropropene	760	U
79-01-6	Trichloroethene	760	U
124-48-1	Dibromochloromethane	760	U
79-00-5	1,1,2-Trichloroethane	760	U
71-43-2	Benzene	7700	
110-82-7	Cyclohexane	760	U
10061-02-6	trans-1,3-Dichloropropene	760	U
75-25-2	Bromoform	760	U
108-10-1	4-Methyl-2-pentanone	3800	U
591-78-6	2-Hexanone	3800	U
127-18-4	Tetrachloroethene	760	U
79-34-5	1,1,2,2-Tetrachloroethane	760	U

AECOM056 S91

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66828.D

Level: (low/med) MED Date Received: 10/02/09

% Moisture: not dec. 17.5 Date Analyzed: 10/12/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	760	U
108-88-3	Toluene	6900	
108-90-7	Chlorobenzene	760	U
100-41-4	Ethylbenzene	15000	
100-42-5	Styrene	3800	
108-38-3/106-42-3	m,p-Xylene	17000	
95-47-6	o-Xylene	11000	
106-93-4	1,2-Dibromoethane	760	U
98-82-8	Isopropylbenzene	650	J
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
95-50-1	1,2-Dichlorobenzene	760	U
96-12-8	1,2-Dibromo-3-chloropropane	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U

AECOM056 S92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3538.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 25.8 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	~~19~~ 24	~~B~~ UJ
67-64-1	Acetone	~~14~~ 34	~~J~~ U
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM056 S93

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3538.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 25.8 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM056 S94

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3543.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	66	U
75-71-8	Dichlorodifluoromethane	66	U
74-83-9	Bromomethane	66	U
75-01-4	Vinyl chloride	66	U
75-00-3	Chloroethane	66	U
75-09-2	Methylene chloride	~~190~~ 250	~~B~~ U J
67-64-1	Acetone	~~93~~ 330	~~J~~ U
75-69-4	Trichlorofluoromethane	66	U
75-35-4	1,1-Dichloroethene	66	U
75-15-0	Carbon disulfide	66	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	66	U
75-34-3	1,1-Dichloroethane	66	U
67-66-3	Chloroform	66	U
107-06-2	1,2-Dichloroethane	66	U
79-20-9	Methyl Acetate	66	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	66	U
156-60-5	trans-1,2-Dichloroethene	66	U
56-23-5	Carbon tetrachloride	66	U
1634-04-4	Methyl tert-butyl ether	66	U
75-27-4	Bromodichloromethane	66	U
78-87-5	1,2-Dichloropropane	66	U
156-59-2	cis-1,2-Dichloroethene	66	U
10061-01-5	cis-1,3-Dichloropropene	66	U
79-01-6	Trichloroethene	66	U
124-48-1	Dibromochloromethane	66	U
79-00-5	1,1,2-Trichloroethane	66	U
71-43-2	Benzene	66	U
110-82-7	Cyclohexane	310	J
10061-02-6	trans-1,3-Dichloropropene	66	U
75-25-2	Bromoform	66	U
108-10-1	4-Methyl-2-pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	66	U
79-34-5	1,1,2,2-Tetrachloroethane	66	U

AECOM056 S95

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3543.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1000	J
108-88-3	Toluene	66	U
108-90-7	Chlorobenzene	66	U
100-41-4	Ethylbenzene	66	U
100-42-5	Styrene	66	U
108-38-3/106-42-3	m,p-Xylene	130	U
95-47-6	o-Xylene	66	U
106-93-4	1,2-Dibromoethane	66	U
98-82-8	Isopropylbenzene	100	J
541-73-1	1,3-Dichlorobenzene	66	U
106-46-7	1,4-Dichlorobenzene	66	U
95-50-1	1,2-Dichlorobenzene	66	U
96-12-8	1,2-Dibromo-3-chloropropane	66	U
120-82-1	1,2,4-Trichlorobenzene	66	U

AECOM056 S96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3561.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Report original analysis.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	66	U
75-71-8	Dichlorodifluoromethane	66	U
74-83-9	Bromomethane	66	U
75-01-4	Vinyl chloride	66	U
75-00-3	Chloroethane	66	U
75-09-2	Methylene chloride	200	B
67-64-1	Acetone	210	J
75-69-4	Trichlorofluoromethane	66	U
75-35-4	1,1-Dichloroethene	66	U
75-15-0	Carbon disulfide	66	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	66	U
75-34-3	1,1-Dichloroethane	66	U
67-66-3	Chloroform	66	U
107-06-2	1,2-Dichloroethane	66	U
79-20-9	Methyl Acetate	66	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	66	U
156-60-5	trans-1,2-Dichloroethene	66	U
56-23-5	Carbon tetrachloride	66	U
1634-04-4	Methyl tert-butyl ether	66	U
75-27-4	Bromodichloromethane	66	U
78-87-5	1,2-Dichloropropane	66	U
156-59-2	cis-1,2-Dichloroethene	66	U
10061-01-5	cis-1,3-Dichloropropene	66	U
79-01-6	Trichloroethene	66	U
124-48-1	Dibromochloromethane	66	U
79-00-5	1,1,2-Trichloroethane	66	U
71-43-2	Benzene	66	U
110-82-7	Cyclohexane	200	
10061-02-6	trans-1,3-Dichloropropene	66	U
75-25-2	Bromoform	66	U
108-10-1	4-Methyl-2-pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	66	U
79-34-5	1,1,2,2-Tetrachloroethane	66	U

AECOM056 S97

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (12'-14')RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3561.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. 23.7 Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	680	
108-88-3	Toluene	66	U
108-90-7	Chlorobenzene	66	U
100-41-4	Ethylbenzene	66	U
100-42-5	Styrene	66	U
108-38-3/106-42-3	m,p-Xylene	130	U
95-47-6	o-Xylene	66	U
106-93-4	1,2-Dibromoethane	66	U
98-82-8	Isopropylbenzene	58	J
541-73-1	1,3-Dichlorobenzene	66	U
106-46-7	1,4-Dichlorobenzene	66	U
95-50-1	1,2-Dichlorobenzene	66	U
96-12-8	1,2-Dibromo-3-chloropropane	66	U
120-82-1	1,2,4-Trichlorobenzene	66	U

AECOM056 S98

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910813-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66812.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S99

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910813-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66812.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S100

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3536.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 17.3 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~17~~ 23	~~B~~ UJ
67-64-1	Acetone	~~15~~ 30	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	4	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S101

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3536.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 17.3 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	5	J
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	3	J
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S102

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3537.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 19.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	~~18~~ 24	~~B~~ UJ
67-64-1	Acetone	~~18~~ 31	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	13	
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S103

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-18 (42'-44')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3537.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. 19.5 Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	17	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	5	J
95-47-6	o-Xylene	3	J
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S104

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910860-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66814.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S105

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910860-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66814.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S106

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3615.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 16.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	85	~~B~~ UJ
67-64-1	Acetone	~~48~~ 150	~~J~~ U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	65	
110-82-7	Cyclohexane	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S107

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3615.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 16.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	30	U
108-88-3	Toluene	21	J
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	330	
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	77	
95-47-6	o-Xylene	63	
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	57	
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S108

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3616.D

Level: (low/med) LOW /MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	29	U
75-71-8	Dichlorodifluoromethane	29	U
74-83-9	Bromomethane	29	U
75-01-4	Vinyl chloride	29	U
75-00-3	Chloroethane	29	U
75-09-2	Methylene chloride	84	~~B~~ UJ
67-64-1	Acetone	~~45~~ 150	~~J~~ U
75-69-4	Trichlorofluoromethane	29	U
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon disulfide	12	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
75-34-3	1,1-Dichloroethane	29	U
67-66-3	Chloroform	29	U
107-06-2	1,2-Dichloroethane	29	U
79-20-9	Methyl Acetate	29	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
56-23-5	Carbon tetrachloride	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-27-4	Bromodichloromethane	29	U
78-87-5	1,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
79-01-6	Trichloroethene	29	U
124-48-1	Dibromochloromethane	29	U
79-00-5	1,1,2-Trichloroethane	29	U
71-43-2	Benzene	1400 ~~8100~~	~~E~~ J
110-82-7	Cyclohexane	29	
10061-02-6	trans-1,3-Dichloropropene	29	U
75-25-2	Bromoform	29	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U

AECOM056 S109

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3616.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	81	
108-88-3	Toluene	7400 ~~16000~~	~~E~~ J
108-90-7	Chlorobenzene	29	U
100-41-4	Ethylbenzene	17000 ~~16000~~	~~E~~ J
100-42-5	Styrene	1100	
108-38-3/106-42-3	m,p-Xylene	15000 ~~14000~~	~~E~~ J
95-47-6	o-Xylene	7700 ~~9600~~	~~E~~ J
106-93-4	1,2-Dibromoethane	29	U
98-82-8	Isopropylbenzene	1800 ~~3900~~	~~E~~ J
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U

AECOM056 S110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66904.D

Level: (low/med) MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	730	U
75-71-8	Dichlorodifluoromethane	730	U
74-83-9	Bromomethane	730	U
75-01-4	Vinyl chloride	730	U
75-00-3	Chloroethane	730	U
75-09-2	Methylene chloride	180	DBJ
67-64-1	Acetone	3600	U
75-69-4	Trichlorofluoromethane	730	U
75-35-4	1,1-Dichloroethene	730	U
75-15-0	Carbon disulfide	730	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	730	U
75-34-3	1,1-Dichloroethane	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
79-20-9	Methyl Acetate	730	U
78-93-3	2-Butanone	3600	U
71-55-6	1,1,1-Trichloroethane	730	U
156-60-5	trans-1,2-Dichloroethene	730	U
56-23-5	Carbon tetrachloride	730	U
1634-04-4	Methyl tert-butyl ether	730	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
156-59-2	cis-1,2-Dichloroethene	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	730	U
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	1400	D
110-82-7	Cyclohexane	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-pentanone	3600	U
591-78-6	2-Hexanone	3600	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U

AECOM056 S111

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (32'-32.5')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A66904.D

Level: (low/med) MED Date Received: 10/07/09

% Moisture: not dec. 14.1 Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	730	U
108-88-3	Toluene	7400	D
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	17000	D
100-42-5	Styrene	590	DJ
108-38-3/106-42-3	m,p-Xylene	15000	D
95-47-6	o-Xylene	7700	D
106-93-4	1,2-Dibromoethane	730	U
98-82-8	Isopropylbenzene	1800	D
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
96-12-8	1,2-Dibromo-3-chloropropane	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U

AECOM056 S112

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (54'-56')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3617.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 30.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	24	~~B~~ UJ
67-64-1	Acetone	~~19~~ 36	~~J~~ U
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	36	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	130	
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	36	U
591-78-6	2-Hexanone	36	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM056 S113

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11 (54'-56')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3617.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 30.8 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	21	J
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	6	J
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	8	J
95-47-6	o-Xylene	3	J
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM056 S114

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3624.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	83	~~B~~ UJ
67-64-1	Acetone	160	J
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	6	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	35	J
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
110-82-7	Cyclohexane	100	J
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S117

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)RE

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004ARE

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3624.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	310	J
108-88-3	Toluene	13	J
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	30	U
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	17	J
95-47-6	o-Xylene	30	U
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	60	J
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S118

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3618.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

Report reanalysis results.

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	86	B
67-64-1	Acetone	94	J
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	22	J
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	30	U
110-82-7	Cyclohexane	35	
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM056 S115

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2 (8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3618.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. 15.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	82	
108-88-3	Toluene	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	30	U
100-42-5	Styrene	30	U
108-38-3/106-42-3	m,p-Xylene	59	U
95-47-6	o-Xylene	30	U
106-93-4	1,2-Dibromoethane	30	U
98-82-8	Isopropylbenzene	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

AECOM056 S116

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100709

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910975-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66815.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S119

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-100709

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0910975-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66815.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S120

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1 (9')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3611.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	31	U
75-71-8	Dichlorodifluoromethane	31	U
74-83-9	Bromomethane	31	U
75-01-4	Vinyl chloride	31	U
75-00-3	Chloroethane	31	U
75-09-2	Methylene chloride	110	~~B~~ UJ
67-64-1	Acetone	330	J
75-69-4	Trichlorofluoromethane	31	U
75-35-4	1,1-Dichloroethene	31	U
75-15-0	Carbon disulfide	15	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	31	U
75-34-3	1,1-Dichloroethane	31	U
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
79-20-9	Methyl Acetate	31	U
78-93-3	2-Butanone	71	J
71-55-6	1,1,1-Trichloroethane	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
56-23-5	Carbon tetrachloride	31	U
1634-04-4	Methyl tert-butyl ether	31	U
75-27-4	Bromodichloromethane	31	U
78-87-5	1,2-Dichloropropane	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-01-6	Trichloroethene	31	U
124-48-1	Dibromochloromethane	31	U
79-00-5	1,1,2-Trichloroethane	31	U
71-43-2	Benzene	31	U
110-82-7	Cyclohexane	31	U
10061-02-6	trans-1,3-Dichloropropene	31	U
75-25-2	Bromoform	31	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U

AECOM056 S121

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1 (9')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3611.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.9 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	31	U
108-88-3	Toluene	31	UJ
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	34	
100-42-5	Styrene	31	U
108-38-3/106-42-3	m,p-Xylene	44	J
95-47-6	o-Xylene	46	
106-93-4	1,2-Dibromoethane	31	U
98-82-8	Isopropylbenzene	17	J
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

AECOM056 S122

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3614.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 16.3 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	17	~~B~~ UJ
67-64-1	Acetone	~~18~~ 30	~~J~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S123

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3614.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 16.3 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S124

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001a

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3629.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 15 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	19	~~B~~ UJ
67-64-1	Acetone	~~9~~ 24	~~BJ~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S125

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001a

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3629.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 15 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S126

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3630.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 17.9 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	18	~~B~~ UJ
67-64-1	Acetone	~~12~~ 30	~~BJ~~ U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM056 S127

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3630.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. 17.9 Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM056 S128

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66917.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S129

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66917.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S130

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66916.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	BJ
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 S131

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB 101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66916.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM056 S132

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34734.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	990	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	85	J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	250	J
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	250	J
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	310	J

AECOM056 S134

1D

EPA SAMPLE NO.

DUP-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34734.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	440	J
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	720	J
86-74-8	Carbazole	280	J
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	4200	
129-00-0	Pyrene	3000	
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	1500	
117-81-7	Bis(2-ethylhexyl)phthalate	90	J
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	1700	J
207-08-9	Benzo(k)fluoranthene	690	
50-32-8	Benzo(a)pyrene	1400	J
193-39-5	Indeno(1,2,3-cd)pyrene	590	
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(g,h,i)perylene	440	

(1) Cannot be separated from Diphenylamine

AECOM056 S135

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34724.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM056 S136

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 9\N34724.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 10/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM056 S137

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-2B(5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34793.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 25 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	3000	
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1'-Biphenyl	480	
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	2100	
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	2300	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	3200	

AECOM056 S138

1D

EPA SAMPLE NO.

SB-2B(5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34793.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	5800	
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	51000 ~~48000~~	~~E~~
120-12-7	Anthracene	10000 ~~10000~~	~~E~~
86-74-8	Carbazole	3200	
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	~~71000~~ ~~45000~~	~~E~~
129-00-0	Pyrene	~~52000~~ ~~41000~~	~~E~~
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	28000 ~~31000~~	~~E~~
218-01-9	Chrysene	28000 ~~19000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octyl phthalate	390	U J
205-99-2	Benzo(b)fluoranthene	25000 ~~26000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	10000 ~~8400~~	~~E~~
50-32-8	Benzo(a)pyrene	23000 ~~22000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	5700	J
53-70-3	Dibenzo(a,h)anthracene	2400	J
191-24-2	Benzo(g,h,i)perylene	4400	J

(1) Cannot be separated from Diphenylamine

15

AECOM056 S139

1C

EPA SAMPLE NO.

SB-2B(5)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34796.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	9700	U
100-52-7	Benzaldehyde	9700	U
108-95-2	Phenol	9700	U
111-44-4	Bis(2-chloroethyl)ether	9700	U
95-57-8	2-Chlorophenol	9700	U
95-48-7	2-Methylphenol	9700	U
108-60-1	2,2´-oxybis(1-chloropropane)	9700	U
98-86-2	Acetophenone	9700	U
621-64-7	N-Nitroso-di-n-propylamine	9700	U
67-72-1	Hexachloroethane	9700	U
98-95-3	Nitrobenzene	9700	U
78-59-1	Isophorone	9700	U
88-75-5	2-Nitrophenol	9700	U
105-67-9	2,4-Dimethylphenol	9700	U
111-91-1	Bis(2-chloroethoxy)methane	9700	U
120-83-2	2,4-Dichlorophenol	9700	U
91-20-3	Naphthalene	3100	DJ
106-47-8	4-Chloroaniline	9700	U
87-68-3	Hexachlorobutadiene	9700	U
105-60-2	Caprolactam	9700	U
59-50-7	4-Chloro-3-methylphenol	9700	U
91-57-6	2-Methylnaphthalene	9700	U
77-47-4	Hexachlorocyclopentadiene	9700	U
88-06-2	2,4,6-Trichlorophenol	9700	U
95-95-4	2,4,5-Trichlorophenol	9700	U
92-52-4	1,1´-Biphenyl	9700	U
91-58-7	2-Chloronaphthalene	9700	U
88-74-4	2-Nitroaniline	9700	U
131-11-3	Dimethylphthalate	9700	U
606-20-2	2,6-Dinitrotoluene	9700	U
208-96-8	Acenaphthylene	2300	DJ
99-09-2	3-Nitroaniline	9700	U
83-32-9	Acenaphthene	2300	DJ
51-28-5	2,4-Dinitrophenol	9700	U
100-02-7	4-Nitrophenol	9700	U
132-64-9	Dibenzofuran	3100	DJ

AECOM056 S140

1D

EPA SAMPLE NO.

SB-2B(5)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34796.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 15 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	9700	U
84-66-2	Diethylphthalate	9700	U
86-73-7	Fluorene	5200	DJ
7005-72-3	4-Chlorophenyl-phenylether	9700	U
100-01-6	4-Nitroaniline	9700	U
534-52-1	4,6-Dinitro-2-methylphenol	9700	U
86-30-6	N-Nitrosodiphenylamine	9700	U
101-55-3	4-Bromophenyl-phenylether	9700	U
118-74-1	Hexachlorobenzene	9700	U
1912-24-9	Atrazine	9700	U
87-86-5	Pentachlorophenol	9700	U
85-01-8	Phenanthrene	51000	D
120-12-7	Anthracene	10000	D
86-74-8	Carbazole	3600	DJ
84-74-2	Di-n-butyl phthalate	9700	U
206-44-0	Fluoranthene	71000	D
129-00-0	Pyrene	52000	D
85-68-7	Butyl benzyl phthalate	9700	U
91-94-1	3,3´-Dichlorobenzidine	9700	U
56-55-3	Benzo(a)anthracene	28000	D
218-01-9	Chrysene	28000	D
117-81-7	Bis(2-ethylhexyl)phthalate	9700	U
117-84-0	Di-n-octyl phthalate	9700	U
205-99-2	Benzo(b)fluoranthene	25000	D
207-08-9	Benzo(k)fluoranthene	10000	D
50-32-8	Benzo(a)pyrene	23000	D
193-39-5	Indeno(1,2,3-cd)pyrene	9100	DJ
53-70-3	Dibenzo(a,h)anthracene	3500	DJ
191-24-2	Benzo(g,h,i)perylene	7300	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S141

1C

EPA SAMPLE NO.

SB-6(6)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34792.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	Q
12-03-3	3-Methylphenol/4-Methylphenol	400 U
100-52-7	Benzaldehyde	140 J
108-95-2	Phenol	400 U
111-44-4	Bis(2-chloroethyl)ether	400 U
95-57-8	2-Chlorophenol	400 U
95-48-7	2-Methylphenol	400 U
108-60-1	2,2´-oxybis(1-chloropropane)	400 U
98-86-2	Acetophenone	400 U
621-64-7	N-Nitroso-di-n-propylamine	400 U
67-72-1	Hexachloroethane	400 U
98-95-3	Nitrobenzene	400 U
78-59-1	Isophorone	400 U
88-75-5	2-Nitrophenol	400 U
105-67-9	2,4-Dimethylphenol	400 U
111-91-1	Bis(2-chloroethoxy)methane	400 U
120-83-2	2,4-Dichlorophenol	400 U
91-20-3	Naphthalene	140 J
106-47-8	4-Chloroaniline	400 U
87-68-3	Hexachlorobutadiene	400 U
105-60-2	Caprolactam	400 U
59-50-7	4-Chloro-3-methylphenol	400 U
91-57-6	2-Methylnaphthalene	400 U
77-47-4	Hexachlorocyclopentadiene	400 U
88-06-2	2,4,6-Trichlorophenol	400 U
95-95-4	2,4,5-Trichlorophenol	400 U
92-52-4	1,1´-Biphenyl	400 U
91-58-7	2-Chloronaphthalene	400 U
88-74-4	2-Nitroaniline	400 U
131-11-3	Dimethylphthalate	400 U
606-20-2	2,6-Dinitrotoluene	400 U
208-96-8	Acenaphthylene	400 U
99-09-2	3-Nitroaniline	400 U
83-32-9	Acenaphthene	400 U
51-28-5	2,4-Dinitrophenol	400 U
100-02-7	4-Nitrophenol	400 U
132-64-9	Dibenzofuran	400 U

AECOM056 S142

1D

EPA SAMPLE NO.

SB-6(6)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34792.D

Level: (low/med) LOW Date Received: 10/14/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	410	
129-00-0	Pyrene	360	J
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	250	J
117-81-7	Bis(2-ethylhexyl)phthalate	150	J
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	100	J

(1) Cannot be separated from Diphenylamine

AECOM056 S143

1C

EPA SAMPLE NO.

SB-11(16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34687.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /10 x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	UJ
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	10000 ~~10000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	3000	
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	1000	
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	2800	
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	3600	
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	1000	

AECOM056 S144

1D

EPA SAMPLE NO.

SB-11(16'-18')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34687.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	4600	
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	17000 ~~17000~~	~~E~~
120-12-7	Anthracene	5700	
86-74-8	Carbazole	590	
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	13000 ~~8600~~	~~E~~
129-00-0	Pyrene	21000 ~~21000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	UJ
91-94-1	3,3´-Dichlorobenzidine	400	UJ
56-55-3	Benzo(a)anthracene	6600 ~~7200~~	~~E~~
218-01-9	Chrysene	6100	J
117-81-7	Bis(2-ethylhexyl)phthalate	370	J
117-84-0	Di-n-octyl phthalate	400	UJ
205-99-2	Benzo(b)fluoranthene	7100 ~~7800~~	~~E~~
207-08-9	Benzo(k)fluoranthene	3400	J
50-32-8	Benzo(a)pyrene	10000 ~~9600~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2400	J
53-70-3	Dibenzo(a,h)anthracene	830	J
191-24-2	Benzo(g,h,i)perylene	2000	J

(1) Cannot be separated from Diphenylamine

AECOM056 S145

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11(16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34727.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4000	U
100-52-7	Benzaldehyde	4000	U
108-95-2	Phenol	4000	U
111-44-4	Bis(2-chloroethyl)ether	4000	U
95-57-8	2-Chlorophenol	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-oxybis(1-chloropropane)	4000	U
98-86-2	Acetophenone	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	Bis(2-chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
91-20-3	Naphthalene	10000	D
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
105-60-2	Caprolactam	4000	U
59-50-7	4-Chloro-3-methylphenol	4000	U
91-57-6	2-Methylnaphthalene	2700	DJ
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1'-Biphenyl	990	DJ
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
208-96-8	Acenaphthylene	2700	DJ
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	3500	DJ
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	1000	DJ

AECOM056 S146

1D

EPA SAMPLE NO.

SB-11(16'-18')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34727.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 16.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
86-73-7	Fluorene	5100	D
7005-72-3	4-Chlorophenyl-phenylether	4000	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-Nitrosodiphenylamine	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
1912-24-9	Atrazine	4000	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	19000	D
120-12-7	Anthracene	5800	D
86-74-8	Carbazole	4000	U
84-74-2	Di-n-butyl phthalate	4000	U
206-44-0	Fluoranthene	13000	D
129-00-0	Pyrene	21000	D
85-68-7	Butyl benzyl phthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	6600	D
218-01-9	Chrysene	6100	D
117-81-7	Bis(2-ethylhexyl)phthalate	4000	U
117-84-0	Di-n-octyl phthalate	4000	U
205-99-2	Benzo(b)fluoranthene	7100	D
207-08-9	Benzo(k)fluoranthene	2600	DJ
50-32-8	Benzo(a)pyrene	10000	D
193-39-5	Indeno(1,2,3-cd)pyrene	3300	DJ
53-70-3	Dibenzo(a,h)anthracene	1200	DJ
191-24-2	Benzo(g,h,i)perylene	3300	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S147

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-11(32'-32.5')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34794.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 /500x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	3800	U
100-52-7	Benzaldehyde	3800	U J
108-95-2	Phenol	3800	U
111-44-4	Bis(2-chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	Bis(2-chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene 2300000 ~~1400000~~		~~E~~
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene 1100000 ~~1100000~~		~~E~~
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	3800	U
92-52-4	1,1'-Biphenyl	130000	~~E~~ J
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene 170000 ~~340000~~		~~E~~
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene 190000 ~~240000~~		~~E~~
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	30000	

AECOM056 S148

1D

EPA SAMPLE NO.

SB-11(32'-32.5')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34794.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
86-73-7	Fluorene	252000 ~~330000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	3800	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	460000 ~~830000~~	~~E~~
120-12-7	Anthracene	230000 ~~250000~~	~~E~~
86-74-8	Carbazole	7800	
84-74-2	Di-n-butyl phthalate	3800	U
206-44-0	Fluoranthene	260000 ~~230000~~	~~E~~
129-00-0	Pyrene	340000 ~~300000~~	~~E~~
85-68-7	Butyl benzyl phthalate	3800	U
91-94-1	3,3´-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	150000	~~E~~ J
218-01-9	Chrysene	140000 ~~120000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octyl phthalate	3800	U
205-99-2	Benzo(b)fluoranthene	84000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	32000	
50-32-8	Benzo(a)pyrene	120000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	18000	
53-70-3	Dibenzo(a,h)anthracene	8600	
191-24-2	Benzo(g,h,i)perylene	16000	

(1) Cannot be separated from Diphenylamine

AECOM056 S149

1C

EPA SAMPLE NO.

SB-11(32'-32.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34795.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	190000	U
100-52-7	Benzaldehyde	190000	U
108-95-2	Phenol	190000	U
111-44-4	Bis(2-chloroethyl)ether	190000	U
95-57-8	2-Chlorophenol	190000	U
95-48-7	2-Methylphenol	190000	U
108-60-1	2,2'-oxybis(1-chloropropane)	190000	U
98-86-2	Acetophenone	190000	U
621-64-7	N-Nitroso-di-n-propylamine	190000	U
67-72-1	Hexachloroethane	190000	U
98-95-3	Nitrobenzene	190000	U
78-59-1	Isophorone	190000	U
88-75-5	2-Nitrophenol	190000	U
105-67-9	2,4-Dimethylphenol	190000	U
111-91-1	Bis(2-chloroethoxy)methane	190000	U
120-83-2	2,4-Dichlorophenol	190000	U
91-20-3	Naphthalene	2300000	D
106-47-8	4-Chloroaniline	190000	U
87-68-3	Hexachlorobutadiene	190000	U
105-60-2	Caprolactam	190000	U
59-50-7	4-Chloro-3-methylphenol	190000	U
91-57-6	2-Methylnaphthalene	1100000	D
77-47-4	Hexachlorocyclopentadiene	190000	U
88-06-2	2,4,6-Trichlorophenol	190000	U
95-95-4	2,4,5-Trichlorophenol	190000	U
92-52-4	1,1'-Biphenyl	97000	DJ
91-58-7	2-Chloronaphthalene	190000	U
88-74-4	2-Nitroaniline	190000	U
131-11-3	Dimethylphthalate	190000	U
606-20-2	2,6-Dinitrotoluene	190000	U
208-96-8	Acenaphthylene	270000	D
99-09-2	3-Nitroaniline	190000	U
83-32-9	Acenaphthene	190000	D
51-28-5	2,4-Dinitrophenol	190000	U
100-02-7	4-Nitrophenol	190000	U
132-64-9	Dibenzofuran	190000	U

AECOM056 S150

1D

EPA SAMPLE NO.

SB-11(32'-32.5')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34795.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 500.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	190000	U
84-66-2	Diethylphthalate	190000	U
86-73-7	Fluorene	250000	D
7005-72-3	4-Chlorophenyl-phenylether	190000	U
100-01-6	4-Nitroaniline	190000	U
534-52-1	4,6-Dinitro-2-methylphenol	190000	U
86-30-6	N-Nitrosodiphenylamine	190000	U
101-55-3	4-Bromophenyl-phenylether	190000	U
118-74-1	Hexachlorobenzene	190000	U
1912-24-9	Atrazine	190000	U
87-86-5	Pentachlorophenol	190000	U
85-01-8	Phenanthrene	960000	D
120-12-7	Anthracene	230000	D
86-74-8	Carbazole	190000	U
84-74-2	Di-n-butyl phthalate	190000	U
206-44-0	Fluoranthene	260000	D
129-00-0	Pyrene	360000	D
85-68-7	Butyl benzyl phthalate	190000	U
91-94-1	3,3'-Dichlorobenzidine	190000	U
56-55-3	Benzo(a)anthracene	150000	DJ
218-01-9	Chrysene	140000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	190000	U
117-84-0	Di-n-octyl phthalate	190000	U
205-99-2	Benzo(b)fluoranthene	57000	DJ
207-08-9	Benzo(k)fluoranthene	190000	U
50-32-8	Benzo(a)pyrene	100000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	190000	U
53-70-3	Dibenzo(a,h)anthracene	190000	U
191-24-2	Benzo(g,h,i)perylene	190000	U

(1) Cannot be separated from Diphenylamine

AECOM056 S151

1C

EPA SAMPLE NO.

SB-11(54'-56')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34682.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 30.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	480	U
100-52-7	Benzaldehyde	480	U J
108-95-2	Phenol	480	U
111-44-4	Bis(2-chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2´-oxybis(1-chloropropane)	480	U
98-86-2	Acetophenone	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	Bis(2-chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	250	J
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	150	J
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	480	U
92-52-4	1,1´-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	480	U
51-28-5	2,4-Dinitrophenol	480	U
100-02-7	4-Nitrophenol	480	U
132-64-9	Dibenzofuran	480	U

AECOM056 S152

1D

EPA SAMPLE NO.

SB-11(54'-56')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34682.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 30.8 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	480	U
534-52-1	4,6-Dinitro-2-methylphenol	480	U
86-30-6	N-Nitrosodiphenylamine	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	480	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-butyl phthalate	480	U
206-44-0	Fluoranthene	480	U
129-00-0	Pyrene	480	U
85-68-7	Butyl benzyl phthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	480	U
218-01-9	Chrysene	480	U
117-81-7	Bis(2-ethylhexyl)phthalate	480	U
117-84-0	Di-n-octyl phthalate	480	U
205-99-2	Benzo(b)fluoranthene	480	U
207-08-9	Benzo(k)fluoranthene	480	U
50-32-8	Benzo(a)pyrene	480	U
193-39-5	Indeno(1,2,3-cd)pyrene	480	U
53-70-3	Dibenzo(a,h)anthracene	480	U
191-24-2	Benzo(g,h,i)perylene	480	U

(1) Cannot be separated from Diphenylamine

AECOM056 S153

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12(10'-12.2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34608.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 30.4 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	470	U
100-52-7	Benzaldehyde	190	J
108-95-2	Phenol	470	U
111-44-4	Bis(2-chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2´-oxybis(1-chloropropane)	470	U
98-86-2	Acetophenone	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
111-91-1	Bis(2-chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	300	J
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	470	U
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	470	U
92-52-4	1,1´-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	470	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	340	J
99-09-2	3-Nitroaniline	470	U
83-32-9	Acenaphthene	110	J
51-28-5	2,4-Dinitrophenol	470	UJ
100-02-7	4-Nitrophenol	470	U
132-64-9	Dibenzofuran	470	U

AECOM056 S154

1D

EPA SAMPLE NO.

SB-12(10'-12.2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34608.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 30.4 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	180	J
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	470	U
534-52-1	4,6-Dinitro-2-methylphenol	470	U
86-30-6	N-Nitrosodiphenylamine	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	470	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	420	J
86-74-8	Carbazole	160	J
84-74-2	Di-n-butyl phthalate	470	U
206-44-0	Fluoranthene	3500	
129-00-0	Pyrene	3400	
85-68-7	Butyl benzyl phthalate	470	U
91-94-1	3,3´-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	2200	
218-01-9	Chrysene	2000	
117-81-7	Bis(2-ethylhexyl)phthalate	110	J
117-84-0	Di-n-octyl phthalate	470	U
205-99-2	Benzo(b)fluoranthene	2600	
207-08-9	Benzo(k)fluoranthene	910	
50-32-8	Benzo(a)pyrene	2200	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	420	J
191-24-2	Benzo(g,h,i)perylene	1100	

(1) Cannot be separated from Diphenylamine

AECOM056 S155

1D

EPA SAMPLE NO.

SB-13(0'-1')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34610.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	170	J
100-52-7	Benzaldehyde	420	UJ
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	1000	
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	460	
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1'-Biphenyl	180	J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	140	J
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	2100	
51-28-5	2,4-Dinitrophenol	420	UJ
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	2100	

AECOM056 S156

1D

EPA SAMPLE NO.

SB-13(0'-1')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34610.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	3600	
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	38000 ~~28000~~	~~E~~
120-12-7	Anthracene	8200 ~~6800~~	~~E~~
86-74-8	Carbazole	2200	
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	38000 ~~24000~~	~~E~~
129-00-0	Pyrene	28000 ~~19000~~	~~E~~
85-68-7	Butyl benzyl phthalate	1100	
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	15000 ~~13000~~	~~E~~
218-01-9	Chrysene	13000 ~~8000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	3300	
117-84-0	Di-n-octyl phthalate	420	U
205-99-2	Benzo(b)fluoranthene	16000 ~~12000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	2900	
50-32-8	Benzo(a)pyrene	10000 ~~8300~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2500	
53-70-3	Dibenzo(a,h)anthracene	930	
191-24-2	Benzo(g,h,i)perylene	2000	

(1) Cannot be separated from Diphenylamine

AECOM056 S157

1C

EPA SAMPLE NO.

SB-13(0'-1')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34669.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4200	U
100-52-7	Benzaldehyde	4200	U
108-95-2	Phenol	4200	U
111-44-4	Bis(2-chloroethyl)ether	4200	U
95-57-8	2-Chlorophenol	4200	U
95-48-7	2-Methylphenol	4200	U
108-60-1	2,2'-oxybis(1-chloropropane)	4200	U
98-86-2	Acetophenone	4200	U
621-64-7	N-Nitroso-di-n-propylamine	4200	U
67-72-1	Hexachloroethane	4200	U
98-95-3	Nitrobenzene	4200	U
78-59-1	Isophorone	4200	U
88-75-5	2-Nitrophenol	4200	U
105-67-9	2,4-Dimethylphenol	4200	U
111-91-1	Bis(2-chloroethoxy)methane	4200	U
120-83-2	2,4-Dichlorophenol	4200	U
91-20-3	Naphthalene	1200	DJ
106-47-8	4-Chloroaniline	4200	U
87-68-3	Hexachlorobutadiene	4200	U
105-60-2	Caprolactam	4200	U
59-50-7	4-Chloro-3-methylphenol	4200	U
91-57-6	2-Methylnaphthalene	4200	U
77-47-4	Hexachlorocyclopentadiene	4200	U
88-06-2	2,4,6-Trichlorophenol	4200	U
95-95-4	2,4,5-Trichlorophenol	4200	U
92-52-4	1,1'-Biphenyl	4200	U
91-58-7	2-Chloronaphthalene	4200	U
88-74-4	2-Nitroaniline	4200	U
131-11-3	Dimethylphthalate	4200	U
606-20-2	2,6-Dinitrotoluene	4200	U
208-96-8	Acenaphthylene	4200	U
99-09-2	3-Nitroaniline	4200	U
83-32-9	Acenaphthene	2500	DJ
51-28-5	2,4-Dinitrophenol	4200	U
100-02-7	4-Nitrophenol	4200	U
132-64-9	Dibenzofuran	2400	DJ

AECOM056 S158

1D

EPA SAMPLE NO.

SB-13(0'-1')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34669.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 21.9 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4200	U
84-66-2	Diethylphthalate	4200	U
86-73-7	Fluorene	4000	DJ
7005-72-3	4-Chlorophenyl-phenylether	4200	U
100-01-6	4-Nitroaniline	4200	U
534-52-1	4,6-Dinitro-2-methylphenol	4200	U
86-30-6	N-Nitrosodiphenylamine	4200	U
101-55-3	4-Bromophenyl-phenylether	4200	U
118-74-1	Hexachlorobenzene	4200	U
1912-24-9	Atrazine	4200	U
87-86-5	Pentachlorophenol	4200	U
85-01-8	Phenanthrene	38000	D
120-12-7	Anthracene	8200	D
86-74-8	Carbazole	2600	DJ
84-74-2	Di-n-butyl phthalate	4200	U
206-44-0	Fluoranthene	38000	D
129-00-0	Pyrene	28000	D
85-68-7	Butyl benzyl phthalate	1200	DJ
91-94-1	3,3'-Dichlorobenzidine	4200	U
56-55-3	Benzo(a)anthracene	15000	D
218-01-9	Chrysene	13000	D
117-81-7	Bis(2-ethylhexyl)phthalate	3500	DJ
117-84-0	Di-n-octyl phthalate	4200	U
205-99-2	Benzo(b)fluoranthene	10000	D
207-08-9	Benzo(k)fluoranthene	6600	D
50-32-8	Benzo(a)pyrene	10000	D
193-39-5	Indeno(1,2,3-cd)pyrene	4600	D
53-70-3	Dibenzo(a,h)anthracene	1600	DJ
191-24-2	Benzo(g,h,i)perylene	4400	D

(1) Cannot be separated from Diphenylamine

AECOM056 S159

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13(12'-14')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34670.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 20.00 / 2000 ✗

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	2300	J
100-52-7	Benzaldehyde	9100	U J
108-95-2	Phenol	3100	J
111-44-4	Bis(2-chloroethyl)ether	9100	U
95-57-8	2-Chlorophenol	9100	U
95-48-7	2-Methylphenol	9100	U
108-60-1	2,2´-oxybis(1-chloropropane)	9100	U
98-86-2	Acetophenone	9100	U
621-64-7	N-Nitroso-di-n-propylamine	9100	U
67-72-1	Hexachloroethane	9100	U
98-95-3	Nitrobenzene	9100	U
78-59-1	Isophorone	9100	U
88-75-5	2-Nitrophenol	9100	U
105-67-9	2,4-Dimethylphenol	9100	U
111-91-1	Bis(2-chloroethoxy)methane	9100	U
120-83-2	2,4-Dichlorophenol	9100	U
91-20-3	Naphthalene 14000000 ~~6900000~~	~~E~~	
106-47-8	4-Chloroaniline	9100	U
87-68-3	Hexachlorobutadiene	9100	U
105-60-2	Caprolactam	9100	U
59-50-7	4-Chloro-3-methylphenol	9100	U
91-57-6	2-Methylnaphthalene	1000000	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	9100	U
88-06-2	2,4,6-Trichlorophenol	9100	U
95-95-4	2,4,5-Trichlorophenol	9100	U
92-52-4	1,1´-Biphenyl	42000	
91-58-7	2-Chloronaphthalene	9100	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethylphthalate	9100	U
606-20-2	2,6-Dinitrotoluene	9100	U
208-96-8	Acenaphthylene	92000	
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	130000	
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	35000	

AECOM056 S160

1D

EPA SAMPLE NO.

SB-13(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34670.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	9100	U
84-66-2	Diethylphthalate	9100	U
86-73-7	Fluorene	99000	
7005-72-3	4-Chlorophenyl-phenylether	9100	U
100-01-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine	9100	U
101-55-3	4-Bromophenyl-phenylether	9100	U
118-74-1	Hexachlorobenzene	9100	U
1912-24-9	Atrazine	9100	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	280000 ~~280000~~	~~E~~ J
120-12-7	Anthracene	71000	
86-74-8	Carbazole	10000	
84-74-2	Di-n-butyl phthalate	9100	U
206-44-0	Fluoranthene	110000	
129-00-0	Pyrene	110000	
85-68-7	Butyl benzyl phthalate	9100	U
91-94-1	3,3'-Dichlorobenzidine	9100	U
56-55-3	Benzo(a)anthracene	46000	
218-01-9	Chrysene	41000	
117-81-7	Bis(2-ethylhexyl)phthalate	9100	U
117-84-0	Di-n-octyl phthalate	9100	U
205-99-2	Benzo(b)fluoranthene	24000	
207-08-9	Benzo(k)fluoranthene	15000	
50-32-8	Benzo(a)pyrene	32000	
193-39-5	Indeno(1,2,3-cd)pyrene	10000	
53-70-3	Dibenzo(a,h)anthracene	3900	J
191-24-2	Benzo(g,h,i)perylene	9900	

(1) Cannot be separated from Diphenylamine

AECOM056 S161

1C

EPA SAMPLE NO.

SB-13(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34731.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	910000	U
100-52-7	Benzaldehyde	910000	U
108-95-2	Phenol	910000	U
111-44-4	Bis(2-chloroethyl)ether	910000	U
95-57-8	2-Chlorophenol	910000	U
95-48-7	2-Methylphenol	910000	U
108-60-1	2,2´-oxybis(1-chloropropane)	910000	U
98-86-2	Acetophenone	910000	U
621-64-7	N-Nitroso-di-n-propylamine	910000	U
67-72-1	Hexachloroethane	910000	U
98-95-3	Nitrobenzene	910000	U
78-59-1	Isophorone	910000	U
88-75-5	2-Nitrophenol	910000	U
105-67-9	2,4-Dimethylphenol	910000	U
111-91-1	Bis(2-chloroethoxy)methane	910000	U
120-83-2	2,4-Dichlorophenol	910000	U
91-20-3	Naphthalene	14000000	D
106-47-8	4-Chloroaniline	910000	U
87-68-3	Hexachlorobutadiene	910000	U
105-60-2	Caprolactam	910000	U
59-50-7	4-Chloro-3-methylphenol	910000	U
91-57-6	2-Methylnaphthalene	530000	DJ
77-47-4	Hexachlorocyclopentadiene	910000	U
88-06-2	2,4,6-Trichlorophenol	910000	U
95-95-4	2,4,5-Trichlorophenol	910000	U
92-52-4	1,1´-Biphenyl	910000	U
91-58-7	2-Chloronaphthalene	910000	U
88-74-4	2-Nitroaniline	910000	U
131-11-3	Dimethylphthalate	910000	U
606-20-2	2,6-Dinitrotoluene	910000	U
208-96-8	Acenaphthylene	910000	U
99-09-2	3-Nitroaniline	910000	U
83-32-9	Acenaphthene	910000	U
51-28-5	2,4-Dinitrophenol	910000	U
100-02-7	4-Nitrophenol	910000	U
132-64-9	Dibenzofuran	910000	U

repeat mg a/s

AECOM056 S162

1D

EPA SAMPLE NO.

SB-13(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34731.D

Level: (low/med) LOW Date Received: 09/30/09

% Moisture: 27.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	910000	U
84-66-2	Diethylphthalate	910000	U
86-73-7	Fluorene	910000	U
7005-72-3	4-Chlorophenyl-phenylether	910000	U
100-01-6	4-Nitroaniline	910000	U
534-52-1	4,6-Dinitro-2-methylphenol	910000	U
86-30-6	N-Nitrosodiphenylamine	910000	U
101-55-3	4-Bromophenyl-phenylether	910000	U
118-74-1	Hexachlorobenzene	910000	U
1912-24-9	Atrazine	910000	U
87-86-5	Pentachlorophenol	910000	U
85-01-8	Phenanthrene	290000	DJ
120-12-7	Anthracene	910000	U
86-74-8	Carbazole	910000	U
84-74-2	Di-n-butyl phthalate	910000	U
206-44-0	Fluoranthene	910000	U
129-00-0	Pyrene	910000	U
85-68-7	Butyl benzyl phthalate	910000	U
91-94-1	3,3´-Dichlorobenzidine	910000	U
56-55-3	Benzo(a)anthracene	910000	U
218-01-9	Chrysene	910000	U
117-81-7	Bis(2-ethylhexyl)phthalate	910000	U
117-84-0	Di-n-octyl phthalate	910000	U
205-99-2	Benzo(b)fluoranthene	910000	U
207-08-9	Benzo(k)fluoranthene	910000	U
50-32-8	Benzo(a)pyrene	910000	U
193-39-5	Indeno(1,2,3-cd)pyrene	910000	U
53-70-3	Dibenzo(a,h)anthracene	910000	U
191-24-2	Benzo(g,h,i)perylene	910000	U

(1) Cannot be separated from Diphenylamine

AECOM056 S163

1C

EPA SAMPLE NO.

SB-15(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34612.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 407

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	99000 ~~67000~~	~~E~~
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	160000 ~~76000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	11000 ~~11000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	6000	
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	38000 ~~29000~~	~~E~~
51-28-5	2,4-Dinitrophenol	420	U J
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	3200	

AECOM056 S164

1D

EPA SAMPLE NO.

SB-15(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34612.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	36000 ~~30000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	140000 ~~98000~~	~~E~~
120-12-7	Anthracene	31000 ~~29000~~	~~E~~
86-74-8	Carbazole	1600	
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	38000 ~~27000~~	~~E~~
129-00-0	Pyrene	65000 ~~62000~~	~~E~~
85-68-7	Butyl benzyl phthalate	420	U J
91-94-1	3,3'-Dichlorobenzidine	420	U J
56-55-3	Benzo(a)anthracene	24000 ~~28000~~	~~E~~
218-01-9	Chrysene	24000 ~~17000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	420	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~420~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	13000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	5800	J
50-32-8	Benzo(a)pyrene	14000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3	Dibenzo(a,h)anthracene	1600	J
191-24-2	Benzo(g,h,i)perylene	3500	J

(1) Cannot be separated from Diphenylamine

AECOM056 S165

1C

EPA SAMPLE NO.

SB-15(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34671.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	17000	U
100-52-7	Benzaldehyde	17000	U
108-95-2	Phenol	17000	U
111-44-4	Bis(2-chloroethyl)ether	17000	U
95-57-8	2-Chlorophenol	17000	U
95-48-7	2-Methylphenol	17000	U
108-60-1	2,2'-oxybis(1-chloropropane)	17000	U
98-86-2	Acetophenone	17000	U
621-64-7	N-Nitroso-di-n-propylamine	17000	U
67-72-1	Hexachloroethane	17000	U
98-95-3	Nitrobenzene	17000	U
78-59-1	Isophorone	17000	U
88-75-5	2-Nitrophenol	17000	U
105-67-9	2,4-Dimethylphenol	17000	U
111-91-1	Bis(2-chloroethoxy)methane	17000	U
120-83-2	2,4-Dichlorophenol	17000	U
91-20-3	Naphthalene	99000	D
106-47-8	4-Chloroaniline	17000	U
87-68-3	Hexachlorobutadiene	17000	U
105-60-2	Caprolactam	17000	U
59-50-7	4-Chloro-3-methylphenol	17000	U
91-57-6	2-Methylnaphthalene	100000	D
77-47-4	Hexachlorocyclopentadiene	17000	U
88-06-2	2,4,6-Trichlorophenol	17000	U
95-95-4	2,4,5-Trichlorophenol	17000	U
92-52-4	1,1'-Biphenyl	11000	DJ
91-58-7	2-Chloronaphthalene	17000	U
88-74-4	2-Nitroaniline	17000	U
131-11-3	Dimethylphthalate	17000	U
606-20-2	2,6-Dinitrotoluene	17000	U
208-96-8	Acenaphthylene	5600	DJ
99-09-2	3-Nitroaniline	17000	U
83-32-9	Acenaphthene	38000	D
51-28-5	2,4-Dinitrophenol	17000	U
100-02-7	4-Nitrophenol	17000	U
132-64-9	Dibenzofuran	3500	DJ

AECOM056 S166

1D

EPA SAMPLE NO.

SB-15(12'-14')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34671.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 21.6 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	17000	U
84-66-2	Diethylphthalate	17000	U
86-73-7	Fluorene	36000	D
7005-72-3	4-Chlorophenyl-phenylether	17000	U
100-01-6	4-Nitroaniline	17000	U
534-52-1	4,6-Dinitro-2-methylphenol	17000	U
86-30-6	N-Nitrosodiphenylamine	17000	U
101-55-3	4-Bromophenyl-phenylether	17000	U
118-74-1	Hexachlorobenzene	17000	U
1912-24-9	Atrazine	17000	U
87-86-5	Pentachlorophenol	17000	U
85-01-8	Phenanthrene	140000	D
120-12-7	Anthracene	39000	D
86-74-8	Carbazole	17000	U
84-74-2	Di-n-butyl phthalate	17000	U
206-44-0	Fluoranthene	38000	D
129-00-0	Pyrene	65000	D
85-68-7	Butyl benzyl phthalate	17000	U
91-94-1	3,3´-Dichlorobenzidine	17000	U
56-55-3	Benzo(a)anthracene	26000	D
218-01-9	Chrysene	24000	D
117-81-7	Bis(2-ethylhexyl)phthalate	17000	U
117-84-0	Di-n-octyl phthalate	17000	U
205-99-2	Benzo(b)fluoranthene	9600	DJ
207-08-9	Benzo(k)fluoranthene	5200	DJ
50-32-8	Benzo(a)pyrene	13000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	4300	DJ
53-70-3	Dibenzo(a,h)anthracene	17000	U
191-24-2	Benzo(g,h,i)perylene	5200	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S167

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34613.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 100 X

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	490000 ~~270000~~	~~E~~
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	280000 ~~230000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	27000 ~~25000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	110000 ~~76000~~	~~E~~
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	18000 ~~16000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	400	U J
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	8600 ~~8200~~	~~E~~ J

AECOM056 S168

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-15(38'-40')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34613.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/14/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	79000 ~~71000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	290000 ~~210000~~	~~E~~
120-12-7	Anthracene	70000 ~~52000~~	~~E~~
86-74-8	Carbazole	1900	
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	80000 ~~58000~~	~~E~~
129-00-0	Pyrene	130000 ~~110000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	U J
91-94-1	3,3'-Dichlorobenzidine	400	U J
56-55-3	Benzo(a)anthracene	52000 ~~58000~~	~~E~~
218-01-9	Chrysene	47000 ~~23000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	400	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~400~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	28000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	10000 ~~9900~~	~~E~~ J
50-32-8	Benzo(a)pyrene	35000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	8500 ~~6600~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	2900	J
191-24-2	Benzo(g,h,i)perylene	11000 ~~7500~~	~~E~~ J

(1) Cannot be separated from Diphenylamine

AECOM056 S169

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-15(38'-40')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34672.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	40000	U
100-52-7	Benzaldehyde	40000	U
108-95-2	Phenol	40000	U
111-44-4	Bis(2-chloroethyl)ether	40000	U
95-57-8	2-Chlorophenol	40000	U
95-48-7	2-Methylphenol	40000	U
108-60-1	2,2´-oxybis(1-chloropropane)	40000	U
98-86-2	Acetophenone	40000	U
621-64-7	N-Nitroso-di-n-propylamine	40000	U
67-72-1	Hexachloroethane	40000	U
98-95-3	Nitrobenzene	40000	U
78-59-1	Isophorone	40000	U
88-75-5	2-Nitrophenol	40000	U
105-67-9	2,4-Dimethylphenol	40000	U
111-91-1	Bis(2-chloroethoxy)methane	40000	U
120-83-2	2,4-Dichlorophenol	40000	U
91-20-3	Naphthalene	490000	D
106-47-8	4-Chloroaniline	40000	U
87-68-3	Hexachlorobutadiene	40000	U
105-60-2	Caprolactam	40000	U
59-50-7	4-Chloro-3-methylphenol	40000	U
91-57-6	2-Methylnaphthalene	280000	D
77-47-4	Hexachlorocyclopentadiene	40000	U
88-06-2	2,4,6-Trichlorophenol	40000	U
95-95-4	2,4,5-Trichlorophenol	40000	U
92-52-4	1,1´-Biphenyl	27000	DJ
91-58-7	2-Chloronaphthalene	40000	U
88-74-4	2-Nitroaniline	40000	U
131-11-3	Dimethylphthalate	40000	U
606-20-2	2,6-Dinitrotoluene	40000	U
208-96-8	Acenaphthylene	110000	D
99-09-2	3-Nitroaniline	40000	U
83-32-9	Acenaphthene	18000	DJ
51-28-5	2,4-Dinitrophenol	40000	U
100-02-7	4-Nitrophenol	40000	U
132-64-9	Dibenzofuran	8600	DJ

AECOM056 S170

1D

EPA SAMPLE NO.

SB-15(38'-40')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-004BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34672.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 17.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/16/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 8.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	40000	U
84-66-2	Diethylphthalate	40000	U
86-73-7	Fluorene	79000	D
7005-72-3	4-Chlorophenyl-phenylether	40000	U
100-01-6	4-Nitroaniline	40000	U
534-52-1	4,6-Dinitro-2-methylphenol	40000	U
86-30-6	N-Nitrosodiphenylamine	40000	U
101-55-3	4-Bromophenyl-phenylether	40000	U
118-74-1	Hexachlorobenzene	40000	U
1912-24-9	Atrazine	40000	U
87-86-5	Pentachlorophenol	40000	U
85-01-8	Phenanthrene	290000	D
120-12-7	Anthracene	70000	D
86-74-8	Carbazole	40000	U
84-74-2	Di-n-butyl phthalate	40000	U
206-44-0	Fluoranthene	80000	D
129-00-0	Pyrene	130000	D
85-68-7	Butyl benzyl phthalate	40000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	52000	D
218-01-9	Chrysene	47000	D
117-81-7	Bis(2-ethylhexyl)phthalate	40000	U
117-84-0	Di-n-octyl phthalate	40000	U
205-99-2	Benzo(b)fluoranthene	19000	DJ
207-08-9	Benzo(k)fluoranthene	10000	DJ
50-32-8	Benzo(a)pyrene	34000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	8500	DJ
53-70-3	Dibenzo(a,h)anthracene	40000	U
191-24-2	Benzo(g,h,i)perylene	11000	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S171

1C

EPA SAMPLE NO.

SB-15(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34569.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	440	U
100-52-7	Benzaldehyde	440	UJ
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2´-oxybis(1-chloropropane)	440	U
98-86-2	Acetophenone	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
92-52-4	1,1´-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	440	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	440	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	440	U
100-02-7	4-Nitrophenol	440	U
132-64-9	Dibenzofuran	440	U

AECOM056 S172

1D

EPA SAMPLE NO.

SB-15(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34569.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	440	U
534-52-1	4,6-Dinitro-2-methylphenol	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	400	J
120-12-7	Anthracene	100	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-butyl phthalate	440	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	300	J
85-68-7	Butyl benzyl phthalate	440	U
91-94-1	3,3´-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	150	J
218-01-9	Chrysene	110	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	91	J
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) Cannot be separated from Diphenylamine

AECOM056 S173

1C

EPA SAMPLE NO.

SB-18(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34572.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 23.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	430	U
100-52-7	Benzaldehyde	430	UJ
108-95-2	Phenol	430	U
111-44-4	Bis(2-chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2´-oxybis(1-chloropropane)	430	U
98-86-2	Acetophenone	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	Bis(2-chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	1500	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	500	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
92-52-4	1,1´-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	430	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	410	J
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	1300	
51-28-5	2,4-Dinitrophenol	430	U
100-02-7	4-Nitrophenol	430	U
132-64-9	Dibenzofuran	560	

AECOM056 S174

1D

EPA SAMPLE NO.

SB-18(12'-14')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910813-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34572.D

Level: (low/med) LOW Date Received: 10/02/09

% Moisture: 23.7 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	1400	
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	4600	
120-12-7	Anthracene	1500	
86-74-8	Carbazole	430	U
84-74-2	Di-n-butyl phthalate	430	U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	3000	
85-68-7	Butyl benzyl phthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	1900	
218-01-9	Chrysene	1900	
117-81-7	Bis(2-ethylhexyl)phthalate	420	J
117-84-0	Di-n-octyl phthalate	430	U
205-99-2	Benzo(b)fluoranthene	1100	
207-08-9	Benzo(k)fluoranthene	450	
50-32-8	Benzo(a)pyrene	1000	
193-39-5	Indeno(1,2,3-cd)pyrene	290	J
53-70-3	Dibenzo(a,h)anthracene	120	J
191-24-2	Benzo(g,h,i)perylene	300	J

(1) Cannot be separated from Diphenylamine

AECOM056 S175

1C

EPA SAMPLE NO.

SB-18(38'-40')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34570.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 17.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	UJ
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	400	U

AECOM056 S176

1D

EPA SAMPLE NO.

SB-18(38'-40')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34570.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 17.3 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

AECOM056 S177

1C

EPA SAMPLE NO.

SB-18(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34571.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 19.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM056 S178

1D

EPA SAMPLE NO.

SB-18(42'-44')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910860-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34571.D

Level: (low/med) LOW Date Received: 10/05/09

% Moisture: 19.5 Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM056 S179

1C

EPA SAMPLE NO.

TP-1(9')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34688.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /250X

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1800	
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	1500	J
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	760	
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	UJ
78-59-1	Isophorone	410	UJ
88-75-5	2-Nitrophenol	410	UJ
105-67-9	2,4-Dimethylphenol	410	UJ
111-91-1	Bis(2-chloroethoxy)methane	410	UJ
120-83-2	2,4-Dichlorophenol	410	UJ
91-20-3	Naphthalene	140000 ~~510000~~	~~E~~
106-47-8	4-Chloroaniline	410	UJ
87-68-3	Hexachlorobutadiene	410	UJ
105-60-2	Caprolactam	410	UJ
59-50-7	4-Chloro-3-methylphenol	410	UJ
91-57-6	2-Methylnaphthalene	110000 ~~120000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	31000 ~~20000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	32000 ~~20000~~	~~E~~ J
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	130000 ~~72000~~	~~E~~
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	140000 ~~73000~~	~~E~~

AECOM056 S180

1D

EPA SAMPLE NO.

TP-1(9')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34688.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	220000 ~~110000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	760000 ~~340000~~	~~E~~
120-12-7	Anthracene	200000 ~~75000~~	~~E~~
86-74-8	Carbazole	95000 ~~64000~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	~~110~~ 410	~~J~~ U
206-44-0	Fluoranthene	510000 ~~150000~~	~~E~~
129-00-0	Pyrene	320000 ~~280000~~	~~E~~
~~85-68-7~~	~~Butyl benzyl phthalate~~	~~410~~	~~U R~~
~~91-94-1~~	~~3,3'-Dichlorobenzidine~~	~~410~~	~~U R~~
56-55-3	Benzo(a)anthracene	190000 ~~160000~~	~~E~~
218-01-9	Chrysene	140000 ~~34000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	610	J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~410~~	~~U R~~
205-99-2	Benzo(b)fluoranthene	130000 ~~97000~~	~~E~~
207-08-9	Benzo(k)fluoranthene	61000 ~~15000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	120000 ~~67000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	48000 ~~22000~~	~~E~~ J
53-70-3	Dibenzo(a,h)anthracene	8900	~~E~~ J
191-24-2	Benzo(g,h,i)perylene	74000 ~~17000~~	~~E~~ J

(1) Cannot be separated from Diphenylamine

AECOM056 S181

1C

EPA SAMPLE NO.

TP-1(9')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34730.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 250.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	100000	U
100-52-7	Benzaldehyde	100000	U
108-95-2	Phenol	100000	U
111-44-4	Bis(2-chloroethyl)ether	100000	U
95-57-8	2-Chlorophenol	100000	U
95-48-7	2-Methylphenol	100000	U
108-60-1	2,2'-oxybis(1-chloropropane)	100000	U
98-86-2	Acetophenone	100000	U
621-64-7	N-Nitroso-di-n-propylamine	100000	U
67-72-1	Hexachloroethane	100000	U
98-95-3	Nitrobenzene	100000	U
78-59-1	Isophorone	100000	U
88-75-5	2-Nitrophenol	100000	U
105-67-9	2,4-Dimethylphenol	100000	U
111-91-1	Bis(2-chloroethoxy)methane	100000	U
120-83-2	2,4-Dichlorophenol	100000	U
91-20-3	Naphthalene	1400000	D
106-47-8	4-Chloroaniline	100000	U
87-68-3	Hexachlorobutadiene	100000	U
105-60-2	Caprolactam	100000	U
59-50-7	4-Chloro-3-methylphenol	100000	U
91-57-6	2-Methylnaphthalene	110000	D
77-47-4	Hexachlorocyclopentadiene	100000	U
88-06-2	2,4,6-Trichlorophenol	100000	U
95-95-4	2,4,5-Trichlorophenol	100000	U
92-52-4	1,1'-Biphenyl	31000	DJ
91-58-7	2-Chloronaphthalene	100000	U
88-74-4	2-Nitroaniline	100000	U
131-11-3	Dimethylphthalate	100000	U
606-20-2	2,6-Dinitrotoluene	100000	U
208-96-8	Acenaphthylene	32000	DJ
99-09-2	3-Nitroaniline	100000	U
83-32-9	Acenaphthene	130000	D
51-28-5	2,4-Dinitrophenol	100000	U
100-02-7	4-Nitrophenol	100000	U
132-64-9	Dibenzofuran	140000	D

AECOM056 S182

1D

EPA SAMPLE NO.

TP-1(9')DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911044-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34730.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 250.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	100000	U
84-66-2	Diethylphthalate	100000	U
86-73-7	Fluorene	220000	D
7005-72-3	4-Chlorophenyl-phenylether	100000	U
100-01-6	4-Nitroaniline	100000	U
534-52-1	4,6-Dinitro-2-methylphenol	100000	U
86-30-6	N-Nitrosodiphenylamine	100000	U
101-55-3	4-Bromophenyl-phenylether	100000	U
118-74-1	Hexachlorobenzene	100000	U
1912-24-9	Atrazine	100000	U
87-86-5	Pentachlorophenol	100000	U
85-01-8	Phenanthrene	700000	D
120-12-7	Anthracene	200000	D
86-74-8	Carbazole	95000	DJ
84-74-2	Di-n-butyl phthalate	100000	U
206-44-0	Fluoranthene	510000	D
129-00-0	Pyrene	320000	D
85-68-7	Butyl benzyl phthalate	100000	U
91-94-1	3,3'-Dichlorobenzidine	100000	U
56-55-3	Benzo(a)anthracene	190000	D
218-01-9	Chrysene	140000	D
117-81-7	Bis(2-ethylhexyl)phthalate	100000	U
117-84-0	Di-n-octyl phthalate	100000	U
205-99-2	Benzo(b)fluoranthene	130000	D
207-08-9	Benzo(k)fluoranthene	61000	DJ
50-32-8	Benzo(a)pyrene	120000	D
193-39-5	Indeno(1,2,3-cd)pyrene	48000	DJ
53-70-3	Dibenzo(a,h)anthracene	100000	U
191-24-2	Benzo(g,h,i)perylene	39000	DJ

(1) Cannot be separated from Diphenylamine

AECOM056 S183

1C

EPA SAMPLE NO.

TP-2(8.5)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34728.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	3900	U
100-52-7	Benzaldehyde	3900	UJ
108-95-2	Phenol	3900	U
111-44-4	Bis(2-chloroethyl)ether	3900	U
95-57-8	2-Chlorophenol	3900	U
95-48-7	2-Methylphenol	3900	U
108-60-1	2,2´-oxybis(1-chloropropane)	3900	U
98-86-2	Acetophenone	3900	U
621-64-7	N-Nitroso-di-n-propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
111-91-1	Bis(2-chloroethoxy)methane	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
91-20-3	Naphthalene	3900	U
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	3900	U
105-60-2	Caprolactam	3900	U
59-50-7	4-Chloro-3-methylphenol	3900	U
91-57-6	2-Methylnaphthalene	3900	U
77-47-4	Hexachlorocyclopentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	3900	U
92-52-4	1,1´-Biphenyl	3900	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethylphthalate	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
208-96-8	Acenaphthylene	3900	U
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	3100	J
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	1000	J

AECOM056 S184

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-2(8.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910975-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34728.D

Level: (low/med) LOW Date Received: 10/07/09

% Moisture: 15.9 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
86-73-7	Fluorene	4100	
7005-72-3	4-Chlorophenyl-phenylether	3900	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine	3900	U
101-55-3	4-Bromophenyl-phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
1912-24-9	Atrazine	3900	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	16000	
120-12-7	Anthracene	5600	
86-74-8	Carbazole	840	J
84-74-2	Di-n-butyl phthalate	3900	U
206-44-0	Fluoranthene	21000	
129-00-0	Pyrene	21000	
85-68-7	Butyl benzyl phthalate	3900	U
91-94-1	3,3´-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	8400	
218-01-9	Chrysene	7300	
117-81-7	Bis(2-ethylhexyl)phthalate	3900	U
117-84-0	Di-n-octyl phthalate	3900	U
205-99-2	Benzo(b)fluoranthene	5800	
207-08-9	Benzo(k)fluoranthene	2700	J
50-32-8	Benzo(a)pyrene	5800	
193-39-5	Indeno(1,2,3-cd)pyrene	2500	J
53-70-3	Dibenzo(a,h)anthracene	3900	U
191-24-2	Benzo(g,h,i)perylene	2300	J

(1) Cannot be separated from Diphenylamine

AECOM056 S185

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RB2-101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: 0911196-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00251.raw

% Moisture: Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) SEPF Date Extracted: 10/19/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/21/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00189.raw

% Moisture: 15 Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) PFEX Date Extracted: 10/15/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	39	U
11104-28-2	Aroclor 1221	79	U
11141-16-5	Aroclor 1232	39	U
53469-21-9	Aroclor 1242	39	U
12672-29-6	Aroclor 1248	39	U
11097-69-1	Aroclor 1254	39	U
11096-82-5	Aroclor 1260	39	U
37324-23-5	Aroclor 1262	39	U
11100-14-4	Aroclor 1268	39	U

AECOM056 P22

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0910783-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00036.raw

% Moisture: 21.9 Decanted: (Y/N) N Date Received: 09/30/09

Extraction: (Type) PFEX Date Extracted: 10/08/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/12/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	42	U~~J~~
11104-28-2	Aroclor 1221	86	U
11141-16-5	Aroclor 1232	42	U~~J~~
53469-21-9	Aroclor 1242	140	J
12672-29-6	Aroclor 1248	42	U~~J~~
11097-69-1	Aroclor 1254	150	~~J~~ J
11096-82-5	Aroclor 1260	69	
37324-23-5	Aroclor 1262	42	U~~J~~
11100-14-4	Aroclor 1268	42	U

11/2/09

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB-6 (6)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: 0911196-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00191.raw

% Moisture: 17.9 Decanted: (Y/N) N Date Received: 10/14/09

Extraction: (Type) PFEX Date Extracted: 10/15/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	40	U
53469-21-9	Aroclor 1242	40	U
12672-29-6	Aroclor 1248	40	U
11097-69-1	Aroclor 1254	40	U
11096-82-5	Aroclor 1260	77	J
37324-23-5	Aroclor 1262	40	U KJ
11100-14-4	Aroclor 1268	40	U

KJS 11/2/09

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-13 (0'-1')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910783-001

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 78.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4330			P
7440-36-0	Antimony	2.0	B	N J	P
7440-38-2	Arsenic	4.7		* J	P
7440-39-3	Barium	641			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	62200			P
7440-47-3	Chromium	27.5			P
7440-48-4	Cobalt	6.0	B	J	P
7440-50-8	Copper	53.3		* J	P
7439-89-6	Iron	22200			P
7439-92-1	Lead	533		*	P
7439-95-4	Magnesium	6290			P
7439-96-5	Manganese	~~187~~		N R	P
7439-97-6	Mercury	0.73		N J	CV
7440-02-0	Nickel	16.2			P
7440-09-7	Potassium	1500			P
7782-49-2	Selenium	0.55	B	N* J	P
7440-22-4	Silver	0.91	B	N J	P
7440-23-5	Sodium	722			P
7440-28-0	Thallium	0.84	B	J	P
7440-62-2	Vanadium	18.0			P
7440-66-6	Zinc	563		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-13 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910783-002

Level (low/med): LOW Date Received: 9/30/2009

% Solids: 72.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4480			P
7440-36-0	Antimony	5.0	B	N J	P
7440-38-2	Arsenic	7.2		* J	P
7440-39-3	Barium	93.7			P
7440-41-7	Beryllium	0.44	B	J	P
7440-43-9	Cadmium	0.29	B	J	P
7440-70-2	Calcium	30200			P
7440-47-3	Chromium	18.3			P
7440-48-4	Cobalt	4.3	B	J	P
7440-50-8	Copper	85.4		* J	P
7439-89-6	Iron	17400			P
7439-92-1	Lead	219		*	P
7439-95-4	Magnesium	5810			P
7439-96-5	Manganese	~~213~~		N R	P
7439-97-6	Mercury	4.8		N J	CV
7440-02-0	Nickel	11.1			P
7440-09-7	Potassium	685	B	J	P
7782-49-2	Selenium	1.3		N* J	P
7440-22-4	Silver	0.25	B	N J	P
7440-23-5	Sodium	532	B	J	P
7440-28-0	Thallium	0.85	B	J	P
7440-62-2	Vanadium	21.2			P
7440-66-6	Zinc	133		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12 (10'-12.2')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-002

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 69.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8250			P
7440-36-0	Antimony	4.7	B	N J	P
7440-38-2	Arsenic	30.0		* J	P
7440-39-3	Barium	401			P
7440-41-7	Beryllium	0.53	B	J	P
7440-43-9	Cadmium	2.1			P
7440-70-2	Calcium	10200			P
7440-47-3	Chromium	27.5			P
7440-48-4	Cobalt	12.4			P
7440-50-8	Copper	301		* J	P
7439-89-6	Iron	33000			P
7439-92-1	Lead	720		*	P
7439-95-4	Magnesium	2540			P
7439-96-5	Manganese	~~254~~		N R	P
7439-97-6	Mercury	1.7		N J	CV
7440-02-0	Nickel	25.8			P
7440-09-7	Potassium	1210			P
7782-49-2	Selenium	3.0		N* J	P
7440-22-4	Silver	1.2	B	N J	P
7440-23-5	Sodium	217	B	J	P
7440-28-0	Thallium	2.3			P
7440-62-2	Vanadium	30.5			P
7440-66-6	Zinc	1140		* J	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-003

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 78.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1620			P
7440-36-0	Antimony	1.1	B	N J	P
7440-38-2	Arsenic	6.1		N J	P
7440-39-3	Barium	51.6			P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.043	U		P
7440-70-2	Calcium	1110			P
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt	4.3	B	J	P
7440-50-8	Copper	81.6		N J	P
7439-89-6	Iron	15800			P
7439-92-1	Lead	393		N	P
7439-95-4	Magnesium	296	B	J	P
7439-96-5	Manganese	~~25.6~~		N R	P
7439-97-6	Mercury	0.069		N J	CV
7440-02-0	Nickel	11.7			P
7440-09-7	Potassium	188	B	J	P
7782-49-2	Selenium	16.7		N* J	P
7440-22-4	Silver	0.13	B	N J	P
7440-23-5	Sodium	153	B	J	P
7440-28-0	Thallium	0.98	B	J	P
7440-62-2	Vanadium	11.1			P
7440-66-6	Zinc	40.1		N J	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (38'-40')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-004

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8270			P
7440-36-0	Antimony	0.86	B	N J	P
7440-38-2	Arsenic	1.4		* J	P
7440-39-3	Barium	75.4			P
7440-41-7	Beryllium	0.45	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	9590			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	16.7		* J	P
7439-89-6	Iron	18600			P
7439-92-1	Lead	5.9		*	P
7439-95-4	Magnesium	8640			P
7439-96-5	Manganese	~~369~~		N R	P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	18.1			P
7440-09-7	Potassium	2910			P
7782-49-2	Selenium	0.30	U	N J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	530	B	J	P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	34.7			P
7440-66-6	Zinc	48.1		* J	P

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-15 (42'-44')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-005

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 74.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15600			P
7440-36-0	Antimony	1.3	B	N J	P
7440-38-2	Arsenic	2.3		* J	P
7440-39-3	Barium	157			P
7440-41-7	Beryllium	0.75			P
7440-43-9	Cadmium	0.046	U		P
7440-70-2	Calcium	11800			P
7440-47-3	Chromium	39.1			P
7440-48-4	Cobalt	16.1			P
7440-50-8	Copper	29.2		* J	P
7439-89-6	Iron	30900			P
7439-92-1	Lead	9.3		*	P
7439-95-4	Magnesium	13300			P
7439-96-5	Manganese	~~523~~		N R	P
7439-97-6	Mercury	0.022	U	N	CV
7440-02-0	Nickel	32.3			P
7440-09-7	Potassium	5820			P
7782-49-2	Selenium	0.33	U	N J	P
7440-22-4	Silver	0.11	U	N J	P
7440-23-5	Sodium	1630			P
7440-28-0	Thallium	1.1	B	J	P
7440-62-2	Vanadium	49.5			P
7440-66-6	Zinc	75.1		* J	P

Color Before: GREY Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (12'-14')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910813-006

Level (low/med): LOW Date Received: 10/2/2009

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1890			P
7440-36-0	Antimony	0.48	B	N J	P
7440-38-2	Arsenic	4.7		* J	P
7440-39-3	Barium	28.1			P
7440-41-7	Beryllium	0.20	B	J	P
7440-43-9	Cadmium	0.28	B	J	P
7440-70-2	Calcium	7210			P
7440-47-3	Chromium	5.3			P
7440-48-4	Cobalt	7.7			P
7440-50-8	Copper	112		* J	P
7439-89-6	Iron	7810			P
7439-92-1	Lead	29.0		*	P
7439-95-4	Magnesium	954			P
7439-96-5	Manganese	97.9		N R	P
7439-97-6	Mercury	0.15		N J	CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	443	B	J	P
7782-49-2	Selenium	0.47	B	N* J	P
7440-22-4	Silver	0.13	B	N J	P
7440-23-5	Sodium	138	B	J	P
7440-28-0	Thallium	0.42	U		P
7440-62-2	Vanadium	11.5			P
7440-66-6	Zinc	66.1		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (38'-40')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910860-001

Level (low/med): LOW Date Received: 10/5/2009

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6870			P
7440-36-0	Antimony	0.72	B	N J	P
7440-38-2	Arsenic	0.85	B	* J	P
7440-39-3	Barium	58.8			P
7440-41-7	Beryllium	0.36	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	10700			P
7440-47-3	Chromium	17.6			P
7440-48-4	Cobalt	8.5			P
7440-50-8	Copper	13.7		* J	P
7439-89-6	Iron	18100			P
7439-92-1	Lead	4.7		*	P
7439-95-4	Magnesium	8200			P
7439-96-5	Manganese	~~419~~		N R	P
7439-97-6	Mercury	0.020	U	N	CV
7440-02-0	Nickel	15.9			P
7440-09-7	Potassium	2310			P
7782-49-2	Selenium	0.30	U	N* J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	733			P
7440-28-0	Thallium	0.87	B	J	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	37.3		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-18 (42'-44')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910860-002

Level (low/med): LOW Date Received: 10/5/2009

% Solids: 80.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	1.0	B	N J	P
7440-38-2	Arsenic	1.6		* J	P
7440-39-3	Barium	101			P
7440-41-7	Beryllium	0.59	B	J	P
7440-43-9	Cadmium	0.082	B	J	P
7440-70-2	Calcium	12400			P
7440-47-3	Chromium	29.5			P
7440-48-4	Cobalt	12.9			P
7440-50-8	Copper	23.3		* J	P
7439-89-6	Iron	24500			P
7439-92-1	Lead	8.1		*	P
7439-95-4	Magnesium	11100			P
7439-96-5	Manganese	~~476~~		N R	P
7439-97-6	Mercury	0.021	U	N	CV
7440-02-0	Nickel	24.7			P
7440-09-7	Potassium	4140			P
7782-49-2	Selenium	0.31	U	N J	P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	1400			P
7440-28-0	Thallium	0.95	B	J	P
7440-62-2	Vanadium	40.0			P
7440-66-6	Zinc	60.2		* J	P

Color Before: BLACK Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (16'-18')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-001

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5240			P
7440-36-0	Antimony	1.8	B	N J	P
7440-38-2	Arsenic	6.9		* J	P
7440-39-3	Barium	39.7			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	0.041	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	12.5			P
7440-48-4	Cobalt	10.5			P
7440-50-8	Copper	38.0		* J	P
7439-89-6	Iron	44600			P
7439-92-1	Lead	88.5		*	P
7439-95-4	Magnesium	1710			P
7439-96-5	Manganese	~~333~~		N R	P
7439-97-6	Mercury	0.17		N J	CV
7440-02-0	Nickel	19.9			P
7440-09-7	Potassium	869			P
7782-49-2	Selenium	2.9		N* J	P
7440-22-4	Silver	0.17	B	N J	P
7440-23-5	Sodium	253	B	J	P
7440-28-0	Thallium	4.4			P
7440-62-2	Vanadium	22.9			P
7440-66-6	Zinc	133		* J	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (32'-32.5')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-002

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2470			P
7440-36-0	Antimony	0.46	B	N J	P
7440-38-2	Arsenic	1.8		* J	P
7440-39-3	Barium	12.2	B	J	P
7440-41-7	Beryllium	0.13	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	1150			P
7440-47-3	Chromium	6.6			P
7440-48-4	Cobalt	3.6	B	J	P
7440-50-8	Copper	4.1		* J	P
7439-89-6	Iron	7770			P
7439-92-1	Lead	1.8		J *	P
7439-95-4	Magnesium	1530			P
7439-96-5	Manganese	~~80.4~~		N R	P
7439-97-6	Mercury	0.019	U	N	CV
7440-02-0	Nickel	5.8			P
7440-09-7	Potassium	569	B	J	P
7782-49-2	Selenium	0.29	U	N* J	P
7440-22-4	Silver	0.096	U	N J	P
7440-23-5	Sodium	198	B	J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	9.0			P
7440-66-6	Zinc	15.8		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-11 (54'-56')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-003

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 69.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31600			P
7440-36-0	Antimony	2.7	B	N J	P
7440-38-2	Arsenic	3.2		J	P
7440-39-3	Barium	324			P
7440-41-7	Beryllium	1.3			P
7440-43-9	Cadmium	0.049	U		P
7440-70-2	Calcium	7020			P
7440-47-3	Chromium	77.3			P
7440-48-4	Cobalt	28.7			P
7440-50-8	Copper	44.7		J	P
7439-89-6	Iron	55200			P
7439-92-1	Lead	13.9			P
7439-95-4	Magnesium	20200			P
7439-96-5	Manganese	~~783~~		N R	P
7439-97-6	Mercury	0.024	U	N	CV
7440-02-0	Nickel	65.1			P
7440-09-7	Potassium	13500			P
7782-49-2	Selenium	0.36	U	N J	P
7440-22-4	Silver	0.12	U	N J	P
7440-23-5	Sodium	2160			P
7440-28-0	Thallium	2.9			P
7440-62-2	Vanadium	89.1			P
7440-66-6	Zinc	127		J	P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-2 (8.5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0910975-004

Level (low/med): LOW Date Received: 10/7/2009

% Solids: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7770			P
7440-36-0	Antimony	1.3	B	N J	P
7440-38-2	Arsenic	6.0		* J	P
7440-39-3	Barium	111			P
7440-41-7	Beryllium	0.43	B	J	P
7440-43-9	Cadmium	0.44	B	J	P
7440-70-2	Calcium	13300			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	34.5		* J	P
7439-89-6	Iron	16100			P
7439-92-1	Lead	475		*	P
7439-95-4	Magnesium	3530			P
7439-96-5	Manganese	~~257~~		N R	P
7439-97-6	Mercury	1.6		N J	CV
7440-02-0	Nickel	21.4			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	0.42	B	N* J	P
7440-22-4	Silver	5.4		N J	P
7440-23-5	Sodium	142	B	J	P
7440-28-0	Thallium	0.89	B	J	P
7440-62-2	Vanadium	23.9			P
7440-66-6	Zinc	159		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-1 (9')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911044-001

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4240			P
7440-36-0	Antimony	4.7	B	N J	P
7440-38-2	Arsenic	29.1		* J	P
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.47	B	J	P
7440-43-9	Cadmium	0.97			P
7440-70-2	Calcium	8200			P
7440-47-3	Chromium	20.3			P
7440-48-4	Cobalt	5.7	B	J	P
7440-50-8	Copper	209		* J	P
7439-89-6	Iron	18700			P
7439-92-1	Lead	352		*	P
7439-95-4	Magnesium	1490			P
7439-96-5	Manganese	~~175~~		N R	P
7439-97-6	Mercury	0.74		N J	CV
7440-02-0	Nickel	18.3			P
7440-09-7	Potassium	664			P
7782-49-2	Selenium	1.6		N* J	P
7440-22-4	Silver	1.7		N J	P
7440-23-5	Sodium	250	B	J	P
7440-28-0	Thallium	1.6			P
7440-62-2	Vanadium	27.0			P
7440-66-6	Zinc	385		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP-3

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911044-002

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4630			P
7440-36-0	Antimony	2.2	B	N J	P
7440-38-2	Arsenic	3.8		* J	P
7440-39-3	Barium	214		J	P
7440-41-7	Beryllium	0.29	B	J	P
7440-43-9	Cadmium	0.20	B	J	P
7440-70-2	Calcium	5500			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	4.8	B	J	P
7440-50-8	Copper	55.5		* J	P
7439-89-6	Iron	10600			P
7439-92-1	Lead	142		*	P
7439-95-4	Magnesium	2330			P
7439-96-5	Manganese	~~124~~		N R	P
7439-97-6	Mercury	0.23		N J	CV
7440-02-0	Nickel	11.5			P
7440-09-7	Potassium	871			P
7782-49-2	Selenium	0.30	U	N* J	P
7440-22-4	Silver	0.099	U	N J	P
7440-23-5	Sodium	128	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	170		* J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M20

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911196-001

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7750			P
7440-36-0	Antimony	0.98	B	N J	P
7440-38-2	Arsenic	57.9		* J	P
7440-39-3	Barium	455			P
7440-41-7	Beryllium	0.53	B	J	P
7440-43-9	Cadmium	0.93			P
7440-70-2	Calcium	42800			P
7440-47-3	Chromium	26.2			P
7440-48-4	Cobalt	7.2			P
7440-50-8	Copper	212		* J	P
7439-89-6	Iron	8910			P
7439-92-1	Lead	302		*	P
7439-95-4	Magnesium	2390			P
7439-96-5	Manganese	~~189~~		N R	P
7439-97-6	Mercury	0.49		N J	CV
7440-02-0	Nickel	26.3			P
7440-09-7	Potassium	1150			P
7782-49-2	Selenium	0.29	U	N* J	P
7440-22-4	Silver	0.41	B	N J	P
7440-23-5	Sodium	687			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	365		* J	P

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported: 10/29/09

AECOM056 M21

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (6)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Lab Sample ID: 0911196-002

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4860			P
7440-36-0	Antimony	5.6	B	N J	P
7440-38-2	Arsenic	28.6		J	P
7440-39-3	Barium	234			P
7440-41-7	Beryllium	0.48	B	J	P
7440-43-9	Cadmium	0.80			P
7440-70-2	Calcium	3430			P
7440-47-3	Chromium	27.2			P
7440-48-4	Cobalt	11.1			P
7440-50-8	Copper	234		J	P
7439-89-6	Iron	31800			P
7439-92-1	Lead	376			P
7439-95-4	Magnesium	942			P
7439-96-5	Manganese	~~238~~		N R	P
7439-97-6	Mercury	0.79		N J	CV
7440-02-0	Nickel	30.1			P
7440-09-7	Potassium	569	B	J	P
7782-49-2	Selenium	3.2		N J	P
7440-22-4	Silver	0.86	B	N J	P
7440-23-5	Sodium	325	B	J	P
7440-28-0	Thallium	3.3			P
7440-62-2	Vanadium	38.8			P
7440-66-6	Zinc	388		J	P

Color Before: BLACK Clarity Before: _____ Texture: COARSE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M22

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

RB2-101309

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): WATER Lab Sample ID: 0911196-003

Level (low/med): LOW Date Received: 10/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	3.0	U		P
7440-41-7	Beryllium	0.31	~~B~~	J	P
7440-43-9	Cadmium	0.44	~~B~~	J	P
7440-70-2	Calcium	85.0	~~B~~	J	P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	0.83	U		P
7439-89-6	Iron	168			P
7439-92-1	Lead	1.8	U	J	P
7439-95-4	Magnesium	17.6	~~B~~	J	P
7439-96-5	Manganese	2.2	~~B~~	J	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	56.8	~~B~~	J	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	60.8	~~B~~	J	P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	6.6	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported: 10/29/09

AECOM056 M23

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910783-001**

ClientSample ID. : **SB-13 (0'-1')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 9/27/2009 10:03:00 AM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		1	mg/Kg-dry	SW9014	10/09/2009 5:06 PM
Percent Moisture	21.9		1	wt%	D2216	10/05/2009 8:13 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W3

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910783-002

ClientSample ID. : SB-13 (12'-14')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected 9/28/2009 4:10:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To Original
CC

Report Reissued: 1/12/10

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	1.91		5	mg/Kg-dry	SW9014	10/09/2009 5:07 PM
Percent Moisture	27.6		1	wt%	D2216	10/05/2009 8:14 AM

REVISED
DATE: GAM 01/15/10

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910813-002

ClientSample ID. : SB-12 (10'-12.2')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/1/2009 4:30:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.72		1	mg/Kg-dry	SW9014	10/09/2009 5:08 PM
Percent Moisture	30.4		1	wt%	D2216	10/05/2009 8:25 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W5

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910813-003**

ClientSample ID. : **SB-15 (12'-14')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 9/30/2009 12:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		5	mg/Kg-dry	SW9014	10/14/2009 12:07 PM
Percent Moisture	21.6		1	wt%	D2216	10/05/2009 8:26 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W6

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910813-004**
ClientSample ID. : SB-15 (38'-40')

Sample Information...
Type : Soil

Origin:

Collected : 9/30/2009 12:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/15/2009 12:14 PM
Percent Moisture	17.5		1	wt%	D2216	10/05/2009 8:27 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W7

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910813-005

ClientSample ID. : SB-15 (42'-44')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :9/30/2009 12:00:00 PM
Received :10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.67		1	mg/Kg-dry	SW9014	10/15/2009 12:15 PM
Percent Moisture	25.8		1	wt%	D2216	10/05/2009 8:28 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W8

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910813-006**

ClientSample ID. : **SB-18 (12'-14')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/1/2009 5:00:00 PM
Received : 10/2/2009 2:32:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.66		1	mg/Kg-dry	SW9014	10/15/2009 12:16 PM
Percent Moisture	23.7		1	wt%	D2216	10/05/2009 8:29 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W9

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910860-001

ClientSample ID. : SB-18 (38'-40')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/2/2009 10:00:00 AM
Received : 10/5/2009 4:55:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/15/2009 12:17 PM
Percent Moisture	17.3		1	wt%	D2216	10/07/2009 11:45 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W10

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910860-002**

ClientSample ID. : **SB-18 (42'-44')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/2/2009 10:15:00 AM
Received : 10/5/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	10/15/2009 12:22 PM
Percent Moisture	19.5		1	wt%	D2216	10/07/2009 11:46 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W11

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910975-001**

ClientSample ID. : **SB-11 (16'-18')**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/6/2009 5:00:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/20/2009 4:33 PM
Percent Moisture	16.8		1	wt%	D2216	10/12/2009 8:04 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W12

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0910975-002**
ClientSample ID. : **SB-11 (32'-32.5')**

Sample Information...
Type : Soil

Origin:

Collected : 10/6/2009 4:45:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	10/16/2009 6:12 PM
Percent Moisture	14.1		1	wt%	D2216	10/12/2009 8:05 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W13

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0910975-003**

ClientSample ID. : **SB-11 (54'-56')**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/6/2009 4:40:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.72		1	mg/Kg-dry	SW9014	10/16/2009 6:13 PM
Percent Moisture	30.8		1	wt%	D2216	10/12/2009 8:06 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W14

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910975-004

ClientSample ID. : TP-2 (8.5)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/6/2009 1:45:00 PM
Received : 10/7/2009 5:38:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/16/2009 6:14 PM
Percent Moisture	15.9		1	wt%	D2216	10/12/2009 8:07 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W15

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911044-001
ClientSample ID. : TP-1 (9')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 12:50:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	10/20/2009 4:34 PM
Percent Moisture	18.9		1	wt%	D2216	10/12/2009 8:40 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W16

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911044-002**
ClientSample ID. : **DUP-3**

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	10/20/2009 11:16 AM
Percent Moisture	16.3		1	wt%	D2216	10/12/2009 8:41 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W17

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0911196-001**

ClientSample ID. : **SB-2B (5)**

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :10/13/2009 3:45:00 PM
Received :10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59		1	mg/Kg-dry	SW9014	10/16/2009 6:16 PM
Percent Moisture	15.0		1	wt%	D2216	10/19/2009 11:28 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W18

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911196-002**
ClientSample ID. : **SB-6 (6)**

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 2:45:00 PM
Received : 10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	10/16/2009 6:17 PM
Percent Moisture	17.9		1	wt%	D2216	10/19/2009 11:46 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W19

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911196-003

ClientSample ID. : RB2-101309

Sample Information...
Type : Blank

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/13/2009 2:30:00 PM
Received : 10/14/2009 5:07:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 10.0		1	µg/L	SW9014	10/26/2009 4:39 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W20

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3622.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.1 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	16	U B J
67-64-1	Acetone	~~21~~ 31	J U J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	1	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	4	J
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V41

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3622.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 18.1 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V42

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3620.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 19.4 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	19	~~B~~ UJ
67-64-1	Acetone	~~21~~ 31	~~J~~ UJ
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	1	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	3	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V47

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-4(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3620.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 19.4 Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1(12)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3623.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 20.5 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	18	~~B~~ U J
67-64-1	Acetone	~~19~~ 31	~~J~~ U J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V54

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1(12)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3623.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. 20.5 Date Analyzed: 10/15/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

J

AECOM057 V55

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB100909

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911045-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66897.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

R

R

AECOM057 V59

1B

EPA SAMPLE NO.

TB100909

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911045-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66897.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: not dec. Date Analyzed: 10/15/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

R

AECOM057 V60

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(14-16)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3664.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. 15.2 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	13	B U J
67-64-1	Acetone	28 29	B U J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	6	U
71-55-6	1,1,1-Trichloroethane	6	J
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	2500	E
110-82-7	Cyclohexane	9	
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

report DL

AECOM057 V64

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(14-16)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3664.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. 15.2 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	26		
108-88-3	Toluene	130		
108-90-7	Chlorobenzene	6	U	
100-41-4	Ethylbenzene	1800	E	report DL
100-42-5	Styrene	6	U	
108-38-3/106-42-3	m,p-Xylene	2300	E	report DL
95-47-6	o-Xylene	1600	E	report DL
106-93-4	1,2-Dibromoethane	6	U	
98-82-8	Isopropylbenzene	310	E	report DL
541-73-1	1,3-Dichlorobenzene	6	U	
106-46-7	1,4-Dichlorobenzene	6	U	
95-50-1	1,2-Dichlorobenzene	6	U	
96-12-8	1,2-Dibromo-3-chloropropane	6	U	
120-82-1	1,2,4-Trichlorobenzene	6	U	

AECOM057 V65

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(14-16)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67006.D

Level: (low/med) MED Date Received: 10/16/09

% Moisture: not dec. 15.2 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	1500	U
75-71-8	Dichlorodifluoromethane	1500	U
74-83-9	Bromomethane	1500	U
75-01-4	Vinyl chloride	1500	U
75-00-3	Chloroethane	1500	U
75-09-2	Methylene chloride	1500	U
67-64-1	Acetone	7400	U
75-69-4	Trichlorofluoromethane	1500	U
75-35-4	1,1-Dichloroethene	1500	U
75-15-0	Carbon disulfide	1500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1500	U
75-34-3	1,1-Dichloroethane	1500	U
67-66-3	Chloroform	1500	U
107-06-2	1,2-Dichloroethane	1500	U
79-20-9	Methyl Acetate	1500	U
78-93-3	2-Butanone	7400	U
71-55-6	1,1,1-Trichloroethane	1500	U
156-60-5	trans-1,2-Dichloroethene	1500	U
56-23-5	Carbon tetrachloride	1500	U
1634-04-4	Methyl tert-butyl ether	1500	U
75-27-4	Bromodichloromethane	1500	U
78-87-5	1,2-Dichloropropane	1500	U
156-59-2	cis-1,2-Dichloroethene	1500	U
10061-01-5	cis-1,3-Dichloropropene	1500	U
79-01-6	Trichloroethene	1500	U
124-48-1	Dibromochloromethane	1500	U
79-00-5	1,1,2-Trichloroethane	1500	U
71-43-2	Benzene	5400	U
110-82-7	Cyclohexane	1500	U
10061-02-6	trans-1,3-Dichloropropene	1500	U
75-25-2	Bromoform	1500	U
108-10-1	4-Methyl-2-pentanone	7400	U
591-78-6	2-Hexanone	7400	U
127-18-4	Tetrachloroethene	1500	U
79-34-5	1,1,2,2-Tetrachloroethane	1500	U

DNR

report DNR

DNR - do not report

AECOM057 V74

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(14-16)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67006.D

Level: (low/med) MED Date Received: 10/16/09

% Moisture: not dec. 15.2 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 2.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1500	U
108-88-3	Toluene	880	DJ
108-90-7	Chlorobenzene	1500	U
100-41-4	Ethylbenzene	25000	~~D~~
100-42-5	Styrene	1500	U
108-38-3/106-42-3	m,p-Xylene	67000	~~D~~
95-47-6	o-Xylene	29000	~~D~~
106-93-4	1,2-Dibromoethane	1500	U
98-82-8	Isopropylbenzene	6000	~~D~~
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
96-12-8	1,2-Dibromo-3-chloropropane	1500	U
120-82-1	1,2,4-Trichlorobenzene	1500	U

DNR report DNR report DNR report DNR

DNR - do not report

AECOM057 V75

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(37-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3665.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. 16.4 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	65	~~B~~ U J
67-64-1	Acetone	~~30~~ 150	~~BJ~~ U J
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	23	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	150	J
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	55	J
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	22000	E
110-82-7	Cyclohexane	55	J
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	34	J
79-34-5	1,1,2,2-Tetrachloroethane	30	U

upon DT

AECOM057 V8f

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(37-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3665.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. 16.4 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	210	J	
108-88-3	Toluene	30000	E	report DL
108-90-7	Chlorobenzene	30	U	
100-41-4	Ethylbenzene	23000	E	report DL
100-42-5	Styrene	1500	E J	
108-38-3/106-42-3	m,p-Xylene	23000	E	report DL
95-47-6	o-Xylene	14000	E	report DL
106-93-4	1,2-Dibromoethane	30	U	
98-82-8	Isopropylbenzene	2300	E J	
541-73-1	1,3-Dichlorobenzene	30	U	
106-46-7	1,4-Dichlorobenzene	30	U	
95-50-1	1,2-Dichlorobenzene	30	U	
96-12-8	1,2-Dibromo-3-chloropropane	30	U	
120-82-1	1,2,4-Trichlorobenzene	30	U	

AECOM057 V82

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(37-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67005.D

Level: (low/med) MED Date Received: 10/16/09

% Moisture: not dec. 16.4 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	15000	U
75-71-8	Dichlorodifluoromethane	15000	U
74-83-9	Bromomethane	15000	U
75-01-4	Vinyl chloride	15000	U
75-00-3	Chloroethane	15000	U
75-09-2	Methylene chloride	15000	U
67-64-1	Acetone	75000	U
75-69-4	Trichlorofluoromethane	15000	U
75-35-4	1,1-Dichloroethene	15000	U
75-15-0	Carbon disulfide	15000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15000	U
75-34-3	1,1-Dichloroethane	15000	U
67-66-3	Chloroform	15000	U
107-06-2	1,2-Dichloroethane	15000	U
79-20-9	Methyl Acetate	15000	U
78-93-3	2-Butanone	75000	U
71-55-6	1,1,1-Trichloroethane	15000	U
156-60-5	trans-1,2-Dichloroethene	15000	U
56-23-5	Carbon tetrachloride	15000	U
1634-04-4	Methyl tert-butyl ether	15000	U
75-27-4	Bromodichloromethane	15000	U
78-87-5	1,2-Dichloropropane	15000	U
156-59-2	cis-1,2-Dichloroethene	15000	U
10061-01-5	cis-1,3-Dichloropropene	15000	U
79-01-6	Trichloroethene	15000	U
124-48-1	Dibromochloromethane	15000	U
79-00-5	1,1,2-Trichloroethane	15000	U
71-43-2	Benzene	10000	EJ
110-82-7	Cyclohexane	15000	U
10061-02-6	trans-1,3-Dichloropropene	15000	U
75-25-2	Bromoform	15000	U
108-10-1	4-Methyl-2-pentanone	75000	U
591-78-6	2-Hexanone	75000	U
127-18-4	Tetrachloroethene	15000	U
79-34-5	1,1,2,2-Tetrachloroethane	15000	U

DNR

report DNR

DNR- do not report

AECOM057 V93

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(37-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67005.D

Level: (low/med) MED Date Received: 10/16/09

% Moisture: not dec. 16.4 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 20.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	15000	U	DNR
108-88-3	Toluene	64000	D	report
108-90-7	Chlorobenzene	15000	U	DNR
100-41-4	Ethylbenzene	100000	D	report
100-42-5	Styrene	15000	U	DNR
108-38-3/106-42-3	m,p-Xylene	130000	D	report
95-47-6	o-Xylene	66000	D	↓
106-93-4	1,2-Dibromoethane	15000	U	DNR
98-82-8	Isopropylbenzene	15000	U	
541-73-1	1,3-Dichlorobenzene	15000	U	
106-46-7	1,4-Dichlorobenzene	15000	U	
95-50-1	1,2-Dichlorobenzene	15000	U	
96-12-8	1,2-Dibromo-3-chloropropane	15000	U	
120-82-1	1,2,4-Trichlorobenzene	15000	U	

DNR- do not report

AECOM057 V94

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B(42-44)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3675.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. 25.6 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	13	~~B~~ U J
67-64-1	Acetone	12 34	~~B~~ U J
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	62	
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM057 V100

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB101609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911284-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66977.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V108

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB101609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911284-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66977.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM057 V109

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

HPA SAMPLE NO.

SB-1(5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3731.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 13.3 Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U J
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	13	B U J
67-64-1	Acetone	29	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V112

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1(5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3731.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 13.3 Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V113

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3668.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 64.3 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
75-71-8	Dichlorodifluoromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene chloride	29	U B
67-64-1	Acetone	790	~~B~~
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
75-15-0	Carbon disulfide	32	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
75-34-3	1,1-Dichloroethane	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
79-20-9	Methyl Acetate	14	U
78-93-3	2-Butanone	250	
71-55-6	1,1,1-Trichloroethane	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
56-23-5	Carbon tetrachloride	14	U
1634-04-4	Methyl tert-butyl ether	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	~~Benzene~~	~~14000~~	~~E~~
110-82-7	Cyclohexane	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	12	J
591-78-6	2-Hexanone	70	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U

J

report DL

AECOM057 V117

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3668.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 64.3 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	14	U	J
108-88-3	Toluene	13000	E	report DL
108-90-7	Chlorobenzene	14	U	J
100-41-4	Ethylbenzene	7600	E	report DL
100-42-5	Styrene	14	U	J
108-38-3/106-42-3	m,p-Xylene	6900	E	report DL
95-47-6	o-Xylene	4400	E	report DL
106-93-4	1,2-Dibromoethane	14	U	J
98-82-8	Isopropylbenzene	530		J
541-73-1	1,3-Dichlorobenzene	14	U	
106-46-7	1,4-Dichlorobenzene	14	U	
95-50-1	1,2-Dichlorobenzene	14	U	
96-12-8	1,2-Dibromo-3-chloropropane	14	U	
120-82-1	1,2,4-Trichlorobenzene	14	U	

AECOM057 V118

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(20-22)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67008.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 64.3 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	18000	U
75-71-8	Dichlorodifluoromethane	18000	U
74-83-9	Bromomethane	18000	U
75-01-4	Vinyl chloride	18000	U
75-00-3	Chloroethane	18000	U
75-09-2	Methylene chloride	18000	U
67-64-1	Acetone	88000	U
75-69-4	Trichlorofluoromethane	18000	U
75-35-4	1,1-Dichloroethene	18000	U
75-15-0	Carbon disulfide	18000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18000	U
75-34-3	1,1-Dichloroethane	18000	U
67-66-3	Chloroform	18000	U
107-06-2	1,2-Dichloroethane	18000	U
79-20-9	Methyl Acetate	18000	U
78-93-3	2-Butanone	88000	U
71-55-6	1,1,1-Trichloroethane	18000	U
156-60-5	trans-1,2-Dichloroethene	18000	U
56-23-5	Carbon tetrachloride	18000	U
1634-04-4	Methyl tert-butyl ether	18000	U
75-27-4	Bromodichloromethane	18000	U
78-87-5	1,2-Dichloropropane	18000	U
156-59-2	cis-1,2-Dichloroethene	18000	U
10061-01-5	cis-1,3-Dichloropropene	18000	U
79-01-6	Trichloroethene	18000	U
124-48-1	Dibromochloromethane	18000	U
79-00-5	1,1,2-Trichloroethane	18000	U
71-43-2	Benzene	18000	DJ
110-82-7	Cyclohexane	18000	U
10061-02-6	trans-1,3-Dichloropropene	18000	U
75-25-2	Bromoform	18000	U
108-10-1	4-Methyl-2-pentanone	88000	U
591-78-6	2-Hexanone	88000	U
127-18-4	Tetrachloroethene	18000	U
79-34-5	1,1,2,2-Tetrachloroethane	18000	U

DNR

DNR

report DNR

DNR do not report

AECOM057 V127

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(20-22)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67008.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 64.3 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	18000	U	DNR
108-88-3	Toluene	46000	~~D~~ J	report
108-90-7	Chlorobenzene	18000	U	DNR
100-41-4	Ethylbenzene	54000	~~D~~ J	report
100-42-5	Styrene	18000	U J	DNR
108-38-3/106-42-3	m,p-Xylene	48000	~~D~~ J	report
95-47-6	o-Xylene	23000	~~D~~ J	↓
106-93-4	1,2-Dibromoethane	18000	U	DNR
98-82-8	Isopropylbenzene	18000	U	
541-73-1	1,3-Dichlorobenzene	18000	U	
106-46-7	1,4-Dichlorobenzene	18000	U	
95-50-1	1,2-Dichlorobenzene	18000	U	
96-12-8	1,2-Dibromo-3-chloropropane	18000	U	
120-82-1	1,2,4-Trichlorobenzene	18000	U	

AECOM057 V128

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3677.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 13.1 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	29	U
75-71-8	Dichlorodifluoromethane	29	U
74-83-9	Bromomethane	29	U
75-01-4	Vinyl chloride	29	U
75-00-3	Chloroethane	29	U
75-09-2	Methylene chloride	69	U B
67-64-1	Acetone	37 140	B U
75-69-4	Trichlorofluoromethane	29	U
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon disulfide	21	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
75-34-3	1,1-Dichloroethane	29	U
67-66-3	Chloroform	29	U
107-06-2	1,2-Dichloroethane	29	U
79-20-9	Methyl Acetate	29	U
78-93-3	2-Butanone	140	U
71-55-6	1,1,1-Trichloroethane	29	U
156-60-5	trans-1,2-Dichloroethene	6	J
56-23-5	Carbon tetrachloride	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-27-4	Bromodichloromethane	29	U
78-87-5	1,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	94	
10061-01-5	cis-1,3-Dichloropropene	29	U
79-01-6	Trichloroethene	32	
124-48-1	Dibromochloromethane	29	U
79-00-5	1,1,2-Trichloroethane	29	U
71-43-2	Benzene	32000	E
110-82-7	Cyclohexane	210	
10061-02-6	trans-1,3-Dichloropropene	29	U
75-25-2	Bromoform	29	U
108-10-1	4-Methyl-2-pentanone	140	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U

report dil

AECOM057 V134

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3677.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not deo. 13.1 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	870	J
108-88-3	Toluene	63000	E
108-90-7	Chlorobenzene	29	U J
100-41-4	Ethylbenzene	54000	E
100-42-5	Styrene	16000	E
108-38-3/106-42-3	m,p-Xylene	36000	E
95-47-6	o-Xylene	23000	E
106-93-4	1,2-Dibromoethane	29	U J
98-82-8	Isopropylbenzene	5700	E J
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U

report DL

report DL

AECOM057 V135

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67009.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 13.1 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	36000	U
75-71-8	Dichlorodifluoromethane	36000	U
74-83-9	Bromomethane	36000	U
75-01-4	Vinyl chloride	36000	U
75-00-3	Chloroethane	36000	U
75-09-2	Methylene chloride	36000	U
67-64-1	Acetone	180000	U
75-69-4	Trichlorofluoromethane	36000	U
75-35-4	1,1-Dichloroethene	36000	U
75-15-0	Carbon disulfide	36000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	36000	U
75-34-3	1,1-Dichloroethane	36000	U
67-66-3	Chloroform	36000	U
107-06-2	1,2-Dichloroethane	36000	U
79-20-9	Methyl Acetate	36000	U
78-93-3	2-Butanone	180000	U
71-55-6	1,1,1-Trichloroethane	36000	U
156-60-5	trans-1,2-Dichloroethene	36000	U
56-23-5	Carbon tetrachloride	36000	U
1634-04-4	Methyl tert-butyl ether	36000	U
75-27-4	Bromodichloromethane	36000	U
78-87-5	1,2-Dichloropropane	36000	U
156-59-2	cis-1,2-Dichloroethene	36000	U
10061-01-5	cis-1,3-Dichloropropene	36000	U
79-01-6	Trichloroethene	36000	U
124-48-1	Dibromochloromethane	36000	U
79-00-5	1,1,2-Trichloroethane	36000	U
71-43-2	Benzene	74000	D
110-82-7	Cyclohexane	36000	U
10061-02-6	trans-1,3-Dichloropropene	36000	U
75-25-2	Bromoform	36000	U
108-10-1	4-Methyl-2-pentanone	180000	U
591-78-6	2-Hexanone	180000	U
127-18-4	Tetrachloroethene	36000	U
79-34-5	1,1,2,2-Tetrachloroethane	36000	U

DNR

report DNR

DNR - do not report

AECOM057 V147

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67009.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 13.1 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	36000	U
108-88-3	Toluene	270000	D
108-90-7	Chlorobenzene	36000	U
100-41-4	Ethylbenzene	260000	D
100-42-5	Styrene	180000	D
108-38-3/106-42-3	m,p-Xylene	370000	D
95-47-6	o-Xylene	170000	D
106-93-4	1,2-Dibromoethane	36000	U
98-82-8	Isopropylbenzene	36000	U
541-73-1	1,3-Dichlorobenzene	36000	U
106-46-7	1,4-Dichlorobenzene	36000	U
95-50-1	1,2-Dichlorobenzene	36000	U
96-12-8	1,2-Dibromo-3-chloropropane	36000	U
120-82-1	1,2,4-Trichlorobenzene	36000	U

DNR report DNR report DNR

DNR - do not report

AECOM057 V148

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(54-56)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3732.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 11.1 Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U J
75-71-8	Dichlorodifluoromethane	6	U J
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U J
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	13	B U J
67-64-1	Acetone	28	U
75-69-4	Trichlorofluoromethane	6	U J
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	28	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	28	U
591-78-6	2-Hexanone	28	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V154

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B(54-56)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3732.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 11.1 Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	11	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V155

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3678.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 16.5 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	30	U
75-71-8	Dichlorodifluoromethane	30	U
74-83-9	Bromomethane	30	U
75-01-4	Vinyl chloride	30	U
75-00-3	Chloroethane	30	U
75-09-2	Methylene chloride	57	~~B~~ U J
67-64-1	Acetone	150	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
75-15-0	Carbon disulfide	47	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
75-34-3	1,1-Dichloroethane	30	U
67-66-3	Chloroform	30	U
107-06-2	1,2-Dichloroethane	30	U
79-20-9	Methyl Acetate	30	U
78-93-3	2-Butanone	150	U
71-55-6	1,1,1-Trichloroethane	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
56-23-5	Carbon tetrachloride	30	U
1634-04-4	Methyl tert-butyl ether	30	U
75-27-4	Bromodichloromethane	30	U
78-87-5	1,2-Dichloropropane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-01-6	Trichloroethene	30	U
124-48-1	Dibromochloromethane	30	U
79-00-5	1,1,2-Trichloroethane	30	U
71-43-2	Benzene	6200	~~E~~ J
110-82-7	Cyclohexane	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
75-25-2	Bromoform	30	U
108-10-1	4-Methyl-2-pentanone	150	U
591-78-6	2-Hexanone	150	U
127-18-4	Tetrachloroethene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U

AECOM057 V159

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3678.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 16.5 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	35		
108-88-3	Toluene	1200	~~E~~	J
108-90-7	Chlorobenzene	30	U	
100-41-4	Ethylbenzene	~~12000~~	~~E~~	reprtDL
100-42-5	Styrene	30	U	
108-38-3/106-42-3	m,p-Xylene	~~11000~~	~~E~~	reprtDL
95-47-6	o-Xylene	~~8000~~	~~E~~	reprtDL
106-93-4	1,2-Dibromoethane	30	U	
98-82-8	Isopropylbenzene	~~3100~~	~~E~~	reprtDL
541-73-1	1,3-Dichlorobenzene	30	U	
106-46-7	1,4-Dichlorobenzene	30	U	
95-50-1	1,2-Dichlorobenzene	30	U	
96-12-8	1,2-Dibromo-3-chloropropane	30	U	
120-82-1	1,2,4-Trichlorobenzene	30	U	

AECOM057 V160

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(30-32)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67010.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 16.5 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	3700	U
75-71-8	Dichlorodifluoromethane	3700	U
74-83-9	Bromomethane	3700	U
75-01-4	Vinyl chloride	3700	U
75-00-3	Chloroethane	3700	U
75-09-2	Methylene chloride	3700	U
67-64-1	Acetone	19000	U
75-69-4	Trichlorofluoromethane	3700	U
75-35-4	1,1-Dichloroethene	3700	U
75-15-0	Carbon disulfide	3700	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3700	U
75-34-3	1,1-Dichloroethane	3700	U
67-66-3	Chloroform	3700	U
107-06-2	1,2-Dichloroethane	3700	U
79-20-9	Methyl Acetate	3700	U
78-93-3	2-Butanone	19000	U
71-55-6	1,1,1-Trichloroethane	3700	U
156-60-5	trans-1,2-Dichloroethene	3700	U
56-23-5	Carbon tetrachloride	3700	U
1634-04-4	Methyl tert-butyl ether	3700	U
75-27-4	Bromodichloromethane	3700	U
78-87-5	1,2-Dichloropropane	3700	U
156-59-2	cis-1,2-Dichloroethene	3700	U
10061-01-5	cis-1,3-Dichloropropene	3700	U
79-01-6	Trichloroethene	3700	U
124-48-1	Dibromochloromethane	3700	U
79-00-5	1,1,2-Trichloroethane	3700	U
71-43-2	Benzene	3700	U
110-82-7	Cyclohexane	3700	U
10061-02-6	trans-1,3-Dichloropropene	3700	U
75-25-2	Bromoform	3700	U
108-10-1	4-Methyl-2-pentanone	19000	U
591-78-6	2-Hexanone	19000	U
127-18-4	Tetrachloroethene	3700	U
79-34-5	1,1,2,2-Tetrachloroethane	3700	U

DNR

DNR- do not report

AECOM057 V168

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(30-32)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67010.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 16.5 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	3700	U
108-88-3	Toluene	3700	U
108-90-7	Chlorobenzene	3700	U
100-41-4	Ethylbenzene	13000	D
100-42-5	Styrene	3700	U
108-38-3/106-42-3	m,p-Xylene	12000	D
95-47-6	o-Xylene	7000	D
106-93-4	1,2-Dibromoethane	3700	U
98-82-8	Isopropylbenzene	2400	DJ
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
96-12-8	1,2-Dibromo-3-chloropropane	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U

DNR

↓

report DNR

report

report DNR

report DNR.

↓

DNR- do not report

AECOM057 V169

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3670.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 20.2 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	12	~~B~~ U J
67-64-1	Acetone	~~13~~ 31	~~BJ~~ U J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	110	
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V174

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3670.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 20.2 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	11	
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	74	
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	40	
95-47-6	o-Xylene	27	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	4	J
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V175

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3676.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. 41.5 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	9	U
75-71-8	Dichlorodifluoromethane	9	U
74-83-9	Bromomethane	9	U
75-01-4	Vinyl chloride	9	U
75-00-3	Chloroethane	9	U
75-09-2	Methylene chloride	16	~~B~~ U J
67-64-1	Acetone	150	~~B~~ J
75-69-4	Trichlorofluoromethane	9	U
75-35-4	1,1-Dichloroethene	9	U
75-15-0	Carbon disulfide	4	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9	U
75-34-3	1,1-Dichloroethane	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
79-20-9	Methyl Acetate	9	U
78-93-3	2-Butanone	46	
71-55-6	1,1,1-Trichloroethane	9	U
156-60-5	trans-1,2-Dichloroethene	9	U
56-23-5	Carbon tetrachloride	9	U
1634-04-4	Methyl tert-butyl ether	9	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
156-59-2	cis-1,2-Dichloroethene	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
110-82-7	Cyclohexane	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-pentanone	43	U
591-78-6	2-Hexanone	43	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U

AECOM057 V183

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3676.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. 41.5 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
108-38-3/106-42-3	m,p-Xylene	17	U
95-47-6	o-Xylene	9	U
106-93-4	1,2-Dibromoethane	9	U
98-82-8	Isopropylbenzene	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
95-50-1	1,2-Dichlorobenzene	9	U
96-12-8	1,2-Dibromo-3-chloropropane	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U

AECOM057 V184

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(26-28)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3673.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. 16.3 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	12	~~B~~ U-J
67-64-1	Acetone	~~B~~ 30	BU UJ
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	30	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V189

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(26-28)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3673.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. 16.3 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	4	J
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V190

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3672.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not deo. 14.1 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	11	B UJ
67-64-1	Acetone	12 29	BJ UJ
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	2	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	29	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	29	U
591-78-6	2-Hexanone	29	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V196

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6(30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3672.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. 14.1 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V197

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911495-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66991.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V202

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) WATER Lab Sample ID: 0911495-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66991.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM057 V203

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4035.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. 16 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	10	U B
67-64-1	Acetone	~~19~~ 30	U BJ
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	290	E
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

J

report DL

AECOM057 V206

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4035.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. 16 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	6	U	J report DL
108-88-3	Toluene	730	E	
108-90-7	Chlorobenzene	6	U	J
100-41-4	Ethylbenzene	1200	E	report DL
100-42-5	Styrene	110		J
108-38-3/106-42-3	m,p-Xylene	1100	E	report DL
95-47-6	o-Xylene	530	E	report DL
106-93-4	1,2-Dibromoethane	6	U	J
98-82-8	Isopropylbenzene	11		J
541-73-1	1,3-Dichlorobenzene	6	U	
106-46-7	1,4-Dichlorobenzene	6	U	
95-50-1	1,2-Dichlorobenzene	6	U	
96-12-8	1,2-Dibromo-3-chloropropane	6	U	
120-82-1	1,2,4-Trichlorobenzene	6	U	

AECOM057 V207

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4036.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. 16 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	60	U
75-71-8	Dichlorodifluoromethane	60	U
74-83-9	Bromomethane	60	U
75-01-4	Vinyl chloride	60	U
75-00-3	Chloroethane	60	U
75-09-2	Methylene chloride	80	DB
67-64-1	Acetone	43	DBJ
75-69-4	Trichlorofluoromethane	60	U
75-35-4	1,1-Dichloroethene	60	U
75-15-0	Carbon disulfide	60	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	60	U
75-34-3	1,1-Dichloroethane	60	U
67-66-3	Chloroform	60	U
107-06-2	1,2-Dichloroethane	60	U
79-20-9	Methyl Acetate	60	U
78-93-3	2-Butanone	300	U
71-55-6	1,1,1-Trichloroethane	60	U
156-60-5	trans-1,2-Dichloroethene	60	U
56-23-5	Carbon tetrachloride	60	U
1634-04-4	Methyl tert-butyl ether	60	U
75-27-4	Bromodichloromethane	60	U
78-87-5	1,2-Dichloropropane	60	U
156-59-2	cis-1,2-Dichloroethene	60	U
10061-01-5	cis-1,3-Dichloropropene	60	U
79-01-6	Trichloroethene	60	U
124-48-1	Dibromochloromethane	60	U
79-00-5	1,1,2-Trichloroethane	60	U
71-43-2	Benzene	530	~~U~~
110-82-7	Cyclohexane	60	U
10061-02-6	trans-1,3-Dichloropropene	60	U
75-25-2	Bromoform	60	U
108-10-1	4-Methyl-2-pentanone	300	U
591-78-6	2-Hexanone	300	U
127-18-4	Tetrachloroethene	60	U
79-34-5	1,1,2,2-Tetrachloroethane	60	U

DNR

report DNR

AECOM057 V215

DNR- do not report

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001ADL

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4036.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. 16 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	60	U	DNR
108-88-3	Toluene	1300	D	report
108-90-7	Chlorobenzene	60	U	DNR
100-41-4	Ethylbenzene	1800	D	report
100-42-5	Styrene	210	D	DNR
108-38-3/106-42-3	m,p-Xylene	1700	D	report
95-47-6	o-Xylene	820	D	↓
106-93-4	1,2-Dibromoethane	60	U	DNR
98-82-8	Isopropylbenzene	60	U	↓
541-73-1	1,3-Dichlorobenzene	60	U	
106-46-7	1,4-Dichlorobenzene	60	U	
95-50-1	1,2-Dichlorobenzene	60	U	
96-12-8	1,2-Dibromo-3-chloropropane	60	U	
120-82-1	1,2,4-Trichlorobenzene	60	U	

DNR - do not report

AECOM057 V216

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(48-50)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4034.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. 21.8 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	10	B UJ
67-64-1	Acetone	32	B UJ
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	32	U
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	32	U
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM057 V224

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B(48-50)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4034.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dac. 21.8 Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM057 V225

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-4 (36'-38')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34732.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	130	J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	99	J
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	150	J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	400	U

AECOM057 S123

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-4 (36'-38')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34732.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 18.1 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	~~83~~ 400	~~J~~ U
206-44-0	Fluoranthene	90	J
129-00-0	Pyrene	400	U
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3´-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~230~~ 400	~~J~~ U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

AECOM057 S124

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-4 (44'-46')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34733.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	570	J
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	120	J
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM057 S125

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-4 (44'-46')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34733.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM057 S126

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1 (12')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34735.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 20.5 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	2900	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	620	
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	170	J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	710	J
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	450	
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	600	

AECOM057 S127

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TP-1 (12')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911045-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34735.D

Level: (low/med) LOW Date Received: 10/09/09

% Moisture: 20.5 Decanted: (Y/N) N Date Extracted: 10/13/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/19/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	990	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	4100	
120-12-7	Anthracene	1300	J
86-74-8	Carbazole	390	J
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	6200	
129-00-0	Pyrene	4400	
85-68-7	Butyl benzyl phthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	2400	
218-01-9	Chrysene	2500	
117-81-7	Bis(2-ethylhexyl)phthalate	~~120~~ 420	~~J~~ U
117-84-0	Di-n-octyl phthalate	420	U
205-99-2	Benzo(b)fluoranthene	3200	J
207-08-9	Benzo(k)fluoranthene	930	
50-32-8	Benzo(a)pyrene	2800	J
193-39-5	Indeno(1,2,3-cd)pyrene	690	
53-70-3	Dibenzo(a,h)anthracene	290	J
191-24-2	Benzo(g,h,i)perylene	490	

(1) Cannot be separated from Diphenylamine

AECOM057 S128

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (14-16)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49910.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 15.2 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 100 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	U J
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U J
78-59-1	Isophorone	390	U J
88-75-5	2-Nitrophenol	390	U J
105-67-9	2,4-Dimethylphenol	390	U J
111-91-1	Bis(2-chloroethoxy)methane	390	U J
120-83-2	2,4-Dichlorophenol	390	U J
91-20-3	Naphthalene	310000 ~~220000~~	~~E~~
106-47-8	4-Chloroaniline	390	U J
87-68-3	Hexachlorobutadiene	390	U J
105-60-2	Caprolactam	390	U J
59-50-7	4-Chloro-3-methylphenol	390	U J
91-57-6	2-Methylnaphthalene	160000 ~~150000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	12000 ~~17000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	3800	
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	31000 ~~25000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	1700	

AECOM057 S129

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-2B (14-16)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49910.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 15.2 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	41000 ~~30000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	150000 ~~93000~~	~~E~~
120-12-7	Anthracene	44000 ~~25000~~	~~E~~
86-74-8	Carbazole	550	
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	51000 ~~27000~~	~~E~~
129-00-0	Pyrene	82000 ~~48000~~	~~E~~
85-68-7	Butyl benzyl phthalate	390	U J
91-94-1	3,3'-Dichlorobenzidine	390	U J
56-55-3	Benzo(a)anthracene	31000 ~~28000~~	~~E~~ J
218-01-9	Chrysene	29000 ~~16000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	390	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~390~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	9600	~~E~~ J
207-08-9	Benzo(k)fluoranthene	14000 ~~13000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	20000 ~~16000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2700	J
53-70-3	Dibenzo(a,h)anthracene	1700	J
191-24-2	Benzo(g,h,i)perylene	2600	J

(1) Cannot be separated from Diphenylamine

AECOM057 S130

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (14-16)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49965.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 15.2 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/26/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	39000	U
100-52-7	Benzaldehyde	39000	U
108-95-2	Phenol	39000	U
111-44-4	Bis(2-chloroethyl)ether	39000	U
95-57-8	2-Chlorophenol	39000	U
95-48-7	2-Methylphenol	39000	U
108-60-1	2,2´-oxybis(1-chloropropane)	39000	U
98-86-2	Acetophenone	39000	U
621-64-7	N-Nitroso-di-n-propylamine	39000	U
67-72-1	Hexachloroethane	39000	U
98-95-3	Nitrobenzene	39000	U
78-59-1	Isophorone	39000	U
88-75-5	2-Nitrophenol	39000	U
105-67-9	2,4-Dimethylphenol	39000	U
111-91-1	Bis(2-chloroethoxy)methane	39000	U
120-83-2	2,4-Dichlorophenol	39000	U
91-20-3	Naphthalene	310000	D
106-47-8	4-Chloroaniline	39000	U
87-68-3	Hexachlorobutadiene	39000	U
105-60-2	Caprolactam	39000	U
59-50-7	4-Chloro-3-methylphenol	39000	U
91-57-6	2-Methylnaphthalene	160000	D
77-47-4	Hexachlorocyclopentadiene	39000	U
88-06-2	2,4,6-Trichlorophenol	39000	U
95-95-4	2,4,5-Trichlorophenol	39000	U
92-52-4	1,1´-Biphenyl	22000	DJ
91-58-7	2-Chloronaphthalene	39000	U
88-74-4	2-Nitroaniline	39000	U
131-11-3	Dimethylphthalate	39000	U
606-20-2	2,6-Dinitrotoluene	39000	U
208-96-8	Acenaphthylene	39000	U
99-09-2	3-Nitroaniline	39000	U
83-32-9	Acenaphthene	37000	DJ
51-28-5	2,4-Dinitrophenol	39000	U
100-02-7	4-Nitrophenol	39000	U
132-64-9	Dibenzofuran	39000	U

AECOM057 S131

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (14-16)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49965.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 15.2 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (μL) Date Analyzed: 10/26/09

Injection Volume: 2 (μL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (μg/L or μg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	39000	U
84-66-2	Diethylphthalate	39000	U
86-73-7	Fluorene	41000	D
7005-72-3	4-Chlorophenyl-phenylether	39000	U
100-01-6	4-Nitroaniline	39000	U
534-52-1	4,6-Dinitro-2-methylphenol	39000	U
86-30-6	N-Nitrosodiphenylamine	39000	U
101-55-3	4-Bromophenyl-phenylether	39000	U
118-74-1	Hexachlorobenzene	39000	U
1912-24-9	Atrazine	39000	U
87-86-5	Pentachlorophenol	39000	U
85-01-8	Phenanthrene	150000	D
120-12-7	Anthracene	46000	D
86-74-8	Carbazole	39000	U
84-74-2	Di-n-butyl phthalate	39000	U
206-44-0	Fluoranthene	51000	D
129-00-0	Pyrene	82000	D
85-68-7	Butyl benzyl phthalate	39000	U
91-94-1	3,3'-Dichlorobenzidine	39000	U
56-55-3	Benzo(a)anthracene	31000	DJ
218-01-9	Chrysene	29000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	39000	U
117-84-0	Di-n-octyl phthalate	39000	U
205-99-2	Benzo(b)fluoranthene	39000	U
207-08-9	Benzo(k)fluoranthene	16000	DJ
50-32-8	Benzo(a)pyrene	20000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	39000	U
53-70-3	Dibenzo(a,h)anthracene	39000	U
191-24-2	Benzo(g,h,i)perylene	39000	U

Report original DO

(1) Cannot be separated from Diphenylamine

AECOM057 S132

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (37-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49911.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 16.4 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 200X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7900	U
100-52-7	Benzaldehyde	7900	U J
108-95-2	Phenol	7900	U
111-44-4	Bis(2-chloroethyl)ether	7900	U
95-57-8	2-Chlorophenol	7900	U
95-48-7	2-Methylphenol	7900	U
108-60-1	2,2'-oxybis(1-chloropropane)	7900	U
98-86-2	Acetophenone	7900	U
621-64-7	N-Nitroso-di-n-propylamine	7900	U
67-72-1	Hexachloroethane	7900	U
98-95-3	Nitrobenzene	7900	U
78-59-1	Isophorone	7900	U
88-75-5	2-Nitrophenol	7900	U
105-67-9	2,4-Dimethylphenol	7900	U
111-91-1	Bis(2-chloroethoxy)methane	7900	U
120-83-2	2,4-Dichlorophenol	7900	U
91-20-3	Naphthalene 1400000 ~~1200000~~		~~E~~
106-47-8	4-Chloroaniline	7900	U
87-68-3	Hexachlorobutadiene	7900	U
105-60-2	Caprolactam	7900	U
59-50-7	4-Chloro-3-methylphenol	7900	U
91-57-6	2-Methylnaphthalene 790000 ~~710000~~		~~E~~
77-47-4	Hexachlorocyclopentadiene	7900	U
88-06-2	2,4,6-Trichlorophenol	7900	U
95-95-4	2,4,5-Trichlorophenol	7900	U
92-52-4	1,1'-Biphenyl	78000	
91-58-7	2-Chloronaphthalene	7900	U
88-74-4	2-Nitroaniline	7900	U
131-11-3	Dimethylphthalate	7900	U
606-20-2	2,6-Dinitrotoluene	7900	U
208-96-8	Acenaphthylene 275000 ~~240000~~		~~E~~
99-09-2	3-Nitroaniline	7900	U
83-32-9	Acenaphthene	48000	
51-28-5	2,4-Dinitrophenol	7900	U
100-02-7	4-Nitrophenol	7900	U
132-64-9	Dibenzofuran	19000	

AECOM057 S133

1D

EPA SAMPLE NO.

SB-2B (37-38)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49911.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 16.4 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7900	U
84-66-2	Diethylphthalate	7900	U
86-73-7	Fluorene	180000 ~~180000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	7900	U
100-01-6	4-Nitroaniline	7900	U
534-52-1	4,6-Dinitro-2-methylphenol	7900	U
86-30-6	N-Nitrosodiphenylamine	7900	U
101-55-3	4-Bromophenyl-phenylether	7900	U
118-74-1	Hexachlorobenzene	7900	U
1912-24-9	Atrazine	7900	U
87-86-5	Pentachlorophenol	7900	U
85-01-8	Phenanthrene	620000 ~~560000~~	~~E~~
120-12-7	Anthracene	170000 ~~160000~~	~~E~~
86-74-8	Carbazole	5100	J
84-74-2	Di-n-butyl phthalate	7900	U
206-44-0	Fluoranthene	170000 ~~160000~~	~~E~~
129-00-0	Pyrene	300000 ~~280000~~	~~E~~
85-68-7	Butyl benzyl phthalate	7900	U
91-94-1	3,3'-Dichlorobenzidine	7900	U
56-55-3	Benzo(a)anthracene	110000	
218-01-9	Chrysene	110000	
117-81-7	Bis(2-ethylhexyl)phthalate	7900	U
117-84-0	Di-n-octyl phthalate	7900	U J
205-99-2	Benzo(b)fluoranthene	41000	J
207-08-9	Benzo(k)fluoranthene	47000	J
50-32-8	Benzo(a)pyrene	75000	J
193-39-5	Indeno(1,2,3-cd)pyrene	13000	J
53-70-3	Dibenzo(a,h)anthracene	7900	J
191-24-2	Benzo(g,h,i)perylene	12000	J

(1) Cannot be separated from Diphenylamine

AECOM057 S134

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (37-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49966.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 16.4 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/26/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	160000	U
100-52-7	Benzaldehyde	160000	U
108-95-2	Phenol	160000	U
111-44-4	Bis(2-chloroethyl)ether	160000	U
95-57-8	2-Chlorophenol	160000	U
95-48-7	2-Methylphenol	160000	U
108-60-1	2,2'-oxybis(1-chloropropane)	160000	U
98-86-2	Acetophenone	160000	U
621-64-7	N-Nitroso-di-n-propylamine	160000	U
67-72-1	Hexachloroethane	160000	U
98-95-3	Nitrobenzene	160000	U
78-59-1	Isophorone	160000	U
88-75-5	2-Nitrophenol	160000	U
105-67-9	2,4-Dimethylphenol	160000	U
111-91-1	Bis(2-chloroethoxy)methane	160000	U
120-83-2	2,4-Dichlorophenol	160000	U
91-20-3	Naphthalene	1400000	D
106-47-8	4-Chloroaniline	160000	U
87-68-3	Hexachlorobutadiene	160000	U
105-60-2	Caprolactam	160000	U
59-50-7	4-Chloro-3-methylphenol	160000	U
91-57-6	2-Methylnaphthalene	790000	D
77-47-4	Hexachlorocyclopentadiene	160000	U
88-06-2	2,4,6-Trichlorophenol	160000	U
95-95-4	2,4,5-Trichlorophenol	160000	U
92-52-4	1,1'-Biphenyl	78000	DJ
91-58-7	2-Chloronaphthalene	160000	U
88-74-4	2-Nitroaniline	160000	U
131-11-3	Dimethylphthalate	160000	U
606-20-2	2,6-Dinitrotoluene	160000	U
208-96-8	Acenaphthylene	270000	D
99-09-2	3-Nitroaniline	160000	U
83-32-9	Acenaphthene	47000	DJ
51-28-5	2,4-Dinitrophenol	160000	U
100-02-7	4-Nitrophenol	160000	U
132-64-9	Dibenzofuran	160000	U

AECOM057 S135

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-2B (37-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49966.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 16.4 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/26/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	160000	U
84-66-2	Diethylphthalate	160000	U
86-73-7	Fluorene	180000	D
7005-72-3	4-Chlorophenyl-phenylether	160000	U
100-01-6	4-Nitroaniline	160000	U
534-52-1	4,6-Dinitro-2-methylphenol	160000	U
86-30-6	N-Nitrosodiphenylamine	160000	U
101-55-3	4-Bromophenyl-phenylether	160000	U
118-74-1	Hexachlorobenzene	160000	U
1912-24-9	Atrazine	160000	U
87-86-5	Pentachlorophenol	160000	U
85-01-8	Phenanthrene	620000	D
120-12-7	Anthracene	170000	D
86-74-8	Carbazole	160000	U
84-74-2	Di-n-butyl phthalate	160000	U
206-44-0	Fluoranthene	170000	D
129-00-0	Pyrene	300000	D
85-68-7	Butyl benzyl phthalate	160000	U
91-94-1	3,3´-Dichlorobenzidine	160000	U
56-55-3	Benzo(a)anthracene	110000	DJ
218-01-9	Chrysene	120000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	160000	U
117-84-0	Di-n-octyl phthalate	160000	U
205-99-2	Benzo(b)fluoranthene	160000	U
207-08-9	Benzo(k)fluoranthene	68000	DJ
50-32-8	Benzo(a)pyrene	74000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	160000	U
53-70-3	Dibenzo(a,h)anthracene	160000	U
191-24-2	Benzo(g,h,i)perylene	160000	U

(1) Cannot be separated from Diphenylamine

AECOM057 S136

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (42-44)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49909.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 25.6 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	440	U
100-52-7	Benzaldehyde	440	U J
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2´-oxybis(1-chloropropane)	440	U
98-86-2	Acetophenone	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	4800	
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	460	
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
92-52-4	1,1´-Biphenyl	91	J
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	440	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	440	U
83-32-9	Acenaphthene	140	J
51-28-5	2,4-Dinitrophenol	440	U
100-02-7	4-Nitrophenol	440	U
132-64-9	Dibenzofuran	140	J

AECOM057 S137

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-2B (42-44)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911284-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C49909.D

Level: (low/med) LOW Date Received: 10/16/09

% Moisture: 25.6 Decanted: (Y/N) N Date Extracted: 10/20/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	170	J
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	440	U
534-52-1	4,6-Dinitro-2-methylphenol	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	360	J
120-12-7	Anthracene	110	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-butyl phthalate	440	U
206-44-0	Fluoranthene	290	J
129-00-0	Pyrene	270	J
85-68-7	Butyl benzyl phthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	220	J
218-01-9	Chrysene	220	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	210	J
50-32-8	Benzo(a)pyrene	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) Cannot be separated from Diphenylamine

AECOM057 S138

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1 (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50029.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	460	J
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	390	
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	470	
77-47-4	Hexachlorocyclopentadiene	380	UJ
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	130	J
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	110	J
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	78	J

AECOM057 S139

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1 (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50029.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	150	J
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	370	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	2200	
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	790	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	520	
53-70-3	Dibenzo(a,h)anthracene	270	J
191-24-2	Benzo(g,h,i)perylene	400	

(1) Cannot be separated from Diphenylamine

AECOM057 S140

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50030.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 50x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	2600	J
100-52-7	Benzaldehyde	920	U J
108-95-2	Phenol	550	J
111-44-4	Bis(2-chloroethyl)ether	920	U J
95-57-8	2-Chlorophenol	920	U J
95-48-7	2-Methylphenol	920	J
108-60-1	2,2'-oxybis(1-chloropropane)	920	U J
98-86-2	Acetophenone	920	U J
621-64-7	N-Nitroso-di-n-propylamine	920	U J
67-72-1	Hexachloroethane	920	U J
98-95-3	Nitrobenzene	920	U J
78-59-1	Isophorone	920	U J
88-75-5	2-Nitrophenol	920	U J
105-67-9	2,4-Dimethylphenol	2100	J
111-91-1	Bis(2-chloroethoxy)methane	920	U J
120-83-2	2,4-Dichlorophenol	920	U J
91-20-3	Naphthalene	440000 ~~310000~~	~~E~~ J
106-47-8	4-Chloroaniline	920	U J
87-68-3	Hexachlorobutadiene	920	U J
105-60-2	Caprolactam	920	U J
59-50-7	4-Chloro-3-methylphenol	920	U J
91-57-6	2-Methylnaphthalene	110000 ~~120000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	920	U J
88-06-2	2,4,6-Trichlorophenol	920	U J
95-95-4	2,4,5-Trichlorophenol	920	U J
92-52-4	1,1'-Biphenyl	7400	J
91-58-7	2-Chloronaphthalene	920	U J
88-74-4	2-Nitroaniline	920	U J
131-11-3	Dimethylphthalate	920	U J
606-20-2	2,6-Dinitrotoluene	920	U J
208-96-8	Acenaphthylene	810	J
99-09-2	3-Nitroaniline	920	U J
83-32-9	Acenaphthene	5200	J
51-28-5	2,4-Dinitrophenol	920	U J
100-02-7	4-Nitrophenol	920	U J
132-64-9	Dibenzofuran	1600	J

15, 50x

AECOM057 S141

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50030.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	920	U J
84-66-2	Diethylphthalate	920	U J
86-73-7	Fluorene	8300	J
7005-72-3	4-Chlorophenyl-phenylether	920	U J
100-01-6	4-Nitroaniline	920	U J
534-52-1	4,6-Dinitro-2-methylphenol	920	U J
86-30-6	N-Nitrosodiphenylamine	920	U J
101-55-3	4-Bromophenyl-phenylether	920	U J
118-74-1	Hexachlorobenzene	920	U J
1912-24-9	Atrazine	920	U J
87-86-5	Pentachlorophenol	920	U J
85-01-8	Phenanthrene	5900	J
120-12-7	Anthracene	1100	J
86-74-8	Carbazole	2300	J
84-74-2	Di-n-butyl phthalate	~~410~~ 920	U BJ
206-44-0	Fluoranthene	650	J
129-00-0	Pyrene	890	J
85-68-7	Butyl benzyl phthalate	920	U J
91-94-1	3,3´-Dichlorobenzidine	920	U J
56-55-3	Benzo(a)anthracene	390	J
218-01-9	Chrysene	430	J
117-81-7	Bis(2-ethylhexyl)phthalate	~~230~~ 920	~~J~~ UJ
117-84-0	Di-n-octyl phthalate	920	U J
205-99-2	Benzo(b)fluoranthene	920	U J
207-08-9	Benzo(k)fluoranthene	920	U J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	920	U J
53-70-3	Dibenzo(a,h)anthracene	920	U J
191-24-2	Benzo(g,h,i)perylene	920	U J

(1) Cannot be separated from Diphenylamine

AECOM057 S142

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50060.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	46000	U
100-52-7	Benzaldehyde	46000	U
108-95-2	Phenol	46000	U
111-44-4	Bis(2-chloroethyl)ether	46000	U
95-57-8	2-Chlorophenol	46000	U
95-48-7	2-Methylphenol	46000	U
108-60-1	2,2'-oxybis(1-chloropropane)	46000	U
98-86-2	Acetophenone	46000	U
621-64-7	N-Nitroso-di-n-propylamine	46000	U
67-72-1	Hexachloroethane	46000	U
98-95-3	Nitrobenzene	46000	U
78-59-1	Isophorone	46000	U
88-75-5	2-Nitrophenol	46000	U
105-67-9	2,4-Dimethylphenol	46000	U
111-91-1	Bis(2-chloroethoxy)methane	46000	U
120-83-2	2,4-Dichlorophenol	46000	U
91-20-3	Naphthalene	440000	D
106-47-8	4-Chloroaniline	46000	U
87-68-3	Hexachlorobutadiene	46000	U
105-60-2	Caprolactam	46000	U
59-50-7	4-Chloro-3-methylphenol	46000	U
91-57-6	2-Methylnaphthalene	110000	D
77-47-4	Hexachlorocyclopentadiene	46000	U
88-06-2	2,4,6-Trichlorophenol	46000	U
95-95-4	2,4,5-Trichlorophenol	46000	U
92-52-4	1,1'-Biphenyl	46000	U
91-58-7	2-Chloronaphthalene	46000	U
88-74-4	2-Nitroaniline	46000	U
131-11-3	Dimethylphthalate	46000	U
606-20-2	2,6-Dinitrotoluene	46000	U
208-96-8	Acenaphthylene	46000	U
99-09-2	3-Nitroaniline	46000	U
83-32-9	Acenaphthene	46000	U
51-28-5	2,4-Dinitrophenol	46000	U
100-02-7	4-Nitrophenol	46000	U
132-64-9	Dibenzofuran	46000	U

AECOM057 S143

1D

EPA SAMPLE NO.

SB-14B (20-22)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50060.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	46000	U
84-66-2	Diethylphthalate	46000	U
86-73-7	Fluorene	46000	U
7005-72-3	4-Chlorophenyl-phenylether	46000	U
100-01-6	4-Nitroaniline	46000	U
534-52-1	4,6-Dinitro-2-methylphenol	46000	U
86-30-6	N-Nitrosodiphenylamine	46000	U
101-55-3	4-Bromophenyl-phenylether	46000	U
118-74-1	Hexachlorobenzene	46000	U
1912-24-9	Atrazine	46000	U
87-86-5	Pentachlorophenol	46000	U
85-01-8	Phenanthrene	46000	U
120-12-7	Anthracene	46000	U
86-74-8	Carbazole	46000	U
84-74-2	Di-n-butyl phthalate	46000	U
206-44-0	Fluoranthene	46000	U
129-00-0	Pyrene	46000	U
85-68-7	Butyl benzyl phthalate	46000	U
91-94-1	3,3'-Dichlorobenzidine	46000	U
56-55-3	Benzo(a)anthracene	46000	U
218-01-9	Chrysene	46000	U
117-81-7	Bis(2-ethylhexyl)phthalate	46000	U
117-84-0	Di-n-octyl phthalate	46000	U
205-99-2	Benzo(b)fluoranthene	46000	U
207-08-9	Benzo(k)fluoranthene	46000	U
50-32-8	Benzo(a)pyrene	46000	U
193-39-5	Indeno(1,2,3-cd)pyrene	46000	U
53-70-3	Dibenzo(a,h)anthracene	46000	U
191-24-2	Benzo(g,h,i)perylene	46000	U

(1) Cannot be separated from Diphenylamine

AECOM057 S144

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50034.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 2000 x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7600	U
100-52-7	Benzaldehyde	7600	U J
108-95-2	Phenol	7600	U
111-44-4	Bis(2-chloroethyl)ether	7600	U
95-57-8	2-Chlorophenol	7600	U
95-48-7	2-Methylphenol	7600	U
108-60-1	2,2'-oxybis(1-chloropropane)	7600	U
98-86-2	Acetophenone	7600	U
621-64-7	N-Nitroso-di-n-propylamine	7600	U
67-72-1	Hexachloroethane	7600	U
98-95-3	Nitrobenzene	7600	U
78-59-1	Isophorone	7600	U
88-75-5	2-Nitrophenol	7600	U
105-67-9	2,4-Dimethylphenol	7600	U
111-91-1	Bis(2-chloroethoxy)methane	7600	U
120-83-2	2,4-Dichlorophenol	7600	U
91-20-3	Naphthalene 7400000 ~~5700000~~		~~E~~ J
106-47-8	4-Chloroaniline	7600	U
87-68-3	Hexachlorobutadiene	7600	U
105-60-2	Caprolactam	7600	U
59-50-7	4-Chloro-3-methylphenol	7600	U
91-57-6	2-Methylnaphthalene 3060000 ~~3500000~~		~~E~~ J
77-47-4	Hexachlorocyclopentadiene	7600	U J
88-06-2	2,4,6-Trichlorophenol	7600	U
95-95-4	2,4,5-Trichlorophenol	7600	U
92-52-4	1,1'-Biphenyl	280000	~~E~~ J
91-58-7	2-Chloronaphthalene	7600	U
88-74-4	2-Nitroaniline	7600	U
131-11-3	Dimethylphthalate	7600	U
606-20-2	2,6-Dinitrotoluene	7600	U
208-96-8	Acenaphthylene 1000000 ~~760000~~		~~E~~ J
99-09-2	3-Nitroaniline	7600	U
83-32-9	Acenaphthene	220000	~~E~~ J
51-28-5	2,4-Dinitrophenol	7600	U
100-02-7	4-Nitrophenol	7600	U
132-64-9	Dibenzofuran	62000	J

AECOM057 S145

1D

EPA SAMPLE NO.

SB-14B (38-40)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50034.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7600	U
84-66-2	Diethylphthalate	7600	U
86-73-7	Fluorene	520000 ~~510000~~	~~E~~ J
7005-72-3	4-Chlorophenyl-phenylether	7600	U
100-01-6	4-Nitroaniline	7600	U
534-52-1	4,6-Dinitro-2-methylphenol	7600	U
86-30-6	N-Nitrosodiphenylamine	7600	U
101-55-3	4-Bromophenyl-phenylether	7600	U
118-74-1	Hexachlorobenzene	7600	U
1912-24-9	Atrazine	7600	U
87-86-5	Pentachlorophenol	7600	U
85-01-8	Phenanthrene	1800000 ~~1300000~~	~~E~~ J
120-12-7	Anthracene	460000 ~~440000~~	~~E~~ J
86-74-8	Carbazole	15000	J
84-74-2	Di-n-butyl phthalate	7600	U
206-44-0	Fluoranthene	520000 ~~440000~~	~~E~~ J
129-00-0	Pyrene	870000 ~~780000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	7600	U J
91-94-1	3,3'-Dichlorobenzidine	7600	U J
56-55-3	Benzo(a)anthracene	320000 ~~310000~~	~~E~~ J
218-01-9	Chrysene	320000 ~~250000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	7600	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~7600~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	120000	J
207-08-9	Benzo(k)fluoranthene	160000	~~E~~ J
50-32-8	Benzo(a)pyrene	200000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	31000	J
53-70-3	Dibenzo(a,h)anthracene	20000	J
191-24-2	Benzo(g,h,i)perylene	27000	J

13 SUB

(1) Cannot be separated from Diphenylamine

AECOM057 S146

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50062.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1500000	U
100-52-7	Benzaldehyde	1500000	U
108-95-2	Phenol	1500000	U
111-44-4	Bis(2-chloroethyl)ether	1500000	U
95-57-8	2-Chlorophenol	1500000	U
95-48-7	2-Methylphenol	1500000	U
108-60-1	2,2'-oxybis(1-chloropropane)	1500000	U
98-86-2	Acetophenone	1500000	U
621-64-7	N-Nitroso-di-n-propylamine	1500000	U
67-72-1	Hexachloroethane	1500000	U
98-95-3	Nitrobenzene	1500000	U
78-59-1	Isophorone	1500000	U
88-75-5	2-Nitrophenol	1500000	U
105-67-9	2,4-Dimethylphenol	1500000	U
111-91-1	Bis(2-chloroethoxy)methane	1500000	U
120-83-2	2,4-Dichlorophenol	1500000	U
91-20-3	Naphthalene	7400000	D ✓
106-47-8	4-Chloroaniline	1500000	U
87-68-3	Hexachlorobutadiene	1500000	U
105-60-2	Caprolactam	1500000	U
59-50-7	4-Chloro-3-methylphenol	1500000	U
91-57-6	2-Methylnaphthalene	3000000	D ✓
77-47-4	Hexachlorocyclopentadiene	1500000	U
88-06-2	2,4,6-Trichlorophenol	1500000	U
95-95-4	2,4,5-Trichlorophenol	1500000	U
92-52-4	1,1'-Biphenyl	1500000	U — report orig DL
91-58-7	2-Chloronaphthalene	1500000	U
88-74-4	2-Nitroaniline	1500000	U
131-11-3	Dimethylphthalate	1500000	U
606-20-2	2,6-Dinitrotoluene	1500000	U
208-96-8	Acenaphthylene	1000000	DJ ✓
99-09-2	3-Nitroaniline	1500000	U
83-32-9	Acenaphthene	1500000	U — report orig DL
51-28-5	2,4-Dinitrophenol	1500000	U
100-02-7	4-Nitrophenol	1500000	U
132-64-9	Dibenzofuran	1500000	U

AECOM057 S147

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50062.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1500000	U
84-66-2	Diethylphthalate	1500000	U
86-73-7	Fluorene	520000	DJ
7005-72-3	4-Chlorophenyl-phenylether	1500000	U
100-01-6	4-Nitroaniline	1500000	U
534-52-1	4,6-Dinitro-2-methylphenol	1500000	U
86-30-6	N-Nitrosodiphenylamine	1500000	U
101-55-3	4-Bromophenyl-phenylether	1500000	U
118-74-1	Hexachlorobenzene	1500000	U
1912-24-9	Atrazine	1500000	U
87-86-5	Pentachlorophenol	1500000	U
85-01-8	Phenanthrene	1800000	D
120-12-7	Anthracene	460000	DJ
86-74-8	Carbazole	1500000	U
84-74-2	Di-n-butyl phthalate	1500000	U
206-44-0	Fluoranthene	520000	DJ
129-00-0	Pyrene	870000	DJ
85-68-7	Butyl benzyl phthalate	1500000	U
91-94-1	3,3'-Dichlorobenzidine	1500000	U
56-55-3	Benzo(a)anthracene	320000	DJ
218-01-9	Chrysene	320000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	1500000	U
117-84-0	Di-n-octyl phthalate	1500000	U
205-99-2	Benzo(b)fluoranthene	1500000	U
207-08-9	Benzo(k)fluoranthene	1500000	U
50-32-8	Benzo(a)pyrene	1500000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1500000	U
53-70-3	Dibenzo(a,h)anthracene	1500000	U
191-24-2	Benzo(g,h,i)perylene	1500000	U

report avg. DL

(1) Cannot be separated from Diphenylamine

AECOM057 S148

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (54-56)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50023.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 11.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	370	U
100-52-7	Benzaldehyde	370	UJ
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	860	
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	560	
77-47-4	Hexachlorocyclopentadiene	370	UJ
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1´-Biphenyl	120	J
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	88	J
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	300	J
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	370	U

AECOM057 S149

1D

EPA SAMPLE NO.

SB-14B (54-56)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50023.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 11.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	150	J
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	100	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butyl phthalate	~~220~~ 370	~~BJ~~ U
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	140	J
85-68-7	Butyl benzyl phthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~330~~ 370	~~J~~ U
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) Cannot be separated from Diphenylamine

AECOM057 S150

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50031.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /50x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	12000 ~~11000~~	~~E~~ J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	80000 ~~100000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	400	U J
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	24000 ~~20000~~	~~E~~
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	16000 ~~12000~~	~~E~~ J
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	45000 ~~55000~~	~~E~~
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	4200	

AECOM057 S151

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50031.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	62000 ~~40000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U J
86-30-6	N-Nitrosodiphenylamine	400	U J
101-55-3	4-Bromophenyl-phenylether	400	U J
118-74-1	Hexachlorobenzene	400	U J
1912-24-9	Atrazine	400	U J
87-86-5	Pentachlorophenol	400	U J
85-01-8	Phenanthrene	190000 ~~130000~~	~~E~~
120-12-7	Anthracene	37000 ~~34000~~	~~E~~
86-74-8	Carbazole	2000	J
84-74-2	Di-n-butyl phthalate	400	U J
206-44-0	Fluoranthene	62000 ~~38000~~	~~E~~
129-00-0	Pyrene	99000 ~~74000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	U J
91-94-1	3,3'-Dichlorobenzidine	400	U J
56-55-3	Benzo(a)anthracene	40000 ~~44000~~	~~E~~
218-01-9	Chrysene	40000 ~~23000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	400	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	400	U R 13
205-99-2	Benzo(b)fluoranthene	19000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	18000 ~~11000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	28000 ~~22000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	3900	J
53-70-3	Dibenzo(a,h)anthracene	2200	J
191-24-2	Benzo(g,h,i)perylene	3600	J

(1) Cannot be separated from Diphenylamine

AECOM057 S152

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50061.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	20000	U
100-52-7	Benzaldehyde	20000	U
108-95-2	Phenol	20000	U
111-44-4	Bis(2-chloroethyl)ether	20000	U
95-57-8	2-Chlorophenol	20000	U
95-48-7	2-Methylphenol	20000	U
108-60-1	2,2´-oxybis(1-chloropropane)	20000	U
98-86-2	Acetophenone	20000	U
621-64-7	N-Nitroso-di-n-propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
111-91-1	Bis(2-chloroethoxy)methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
91-20-3	Naphthalene	12000	DJ
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
105-60-2	Caprolactam	20000	U
59-50-7	4-Chloro-3-methylphenol	20000	U
91-57-6	2-Methylnaphthalene	180000	D
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	20000	U
92-52-4	1,1´-Biphenyl	24000	D
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethylphthalate	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U
208-96-8	Acenaphthylene	16000	DJ
99-09-2	3-Nitroaniline	20000	U
83-32-9	Acenaphthene	95000	D
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	5400	DJ

AECOM057 S153

1D

EPA SAMPLE NO.

SB-16B (30-32)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50061.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
86-73-7	Fluorene	62000	D
7005-72-3	4-Chlorophenyl-phenylether	20000	U
100-01-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
1912-24-9	Atrazine	20000	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	190000	D
120-12-7	Anthracene	51000	D
86-74-8	Carbazole	20000	U
84-74-2	Di-n-butyl phthalate	20000	U
206-44-0	Fluoranthene	62000	D
129-00-0	Pyrene	99000	D
85-68-7	Butyl benzyl phthalate	20000	U
91-94-1	3,3´-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)anthracene	40000	D
218-01-9	Chrysene	40000	D
117-81-7	Bis(2-ethylhexyl)phthalate	20000	U
117-84-0	Di-n-octyl phthalate	20000	U
205-99-2	Benzo(b)fluoranthene	13000	DJ
207-08-9	Benzo(k)fluoranthene	18000	DJ
50-32-8	Benzo(a)pyrene	28000	D
193-39-5	Indeno(1,2,3-cd)pyrene	8900	DJ
53-70-3	Dibenzo(a,h)anthracene	20000	U
191-24-2	Benzo(g,h,i)perylene	10000	DJ

repeat orig.

(1) Cannot be separated from Diphenylamine

AECOM057 S154

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50024.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 20.2 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	500	
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	410	UJ
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	200	J
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM057 S155

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-16B (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50024.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 20.2 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	~~250~~ 410	~~BJ~~ U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~260~~ 410	~~J~~ U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM057 S156

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50026.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	580	
100-52-7	Benzaldehyde	630	J
108-95-2	Phenol	560	U
111-44-4	Bis(2-chloroethyl)ether	560	U
95-57-8	2-Chlorophenol	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2´-oxybis(1-chloropropane)	560	U
98-86-2	Acetophenone	160	J
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	Bis(2-chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
91-20-3	Naphthalene	3700	
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
105-60-2	Caprolactam	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	860	
77-47-4	Hexachlorocyclopentadiene	560	UJ
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	560	U
92-52-4	1,1´-Biphenyl	560	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	560	U
131-11-3	Dimethylphthalate	560	U
606-20-2	2,6-Dinitrotoluene	560	U
208-96-8	Acenaphthylene	180	J
99-09-2	3-Nitroaniline	560	U
83-32-9	Acenaphthene	180	J
51-28-5	2,4-Dinitrophenol	560	U
100-02-7	4-Nitrophenol	560	U
132-64-9	Dibenzofuran	560	U

AECOM057 S157

1D

EPA SAMPLE NO.

SB-6 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50026.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
86-73-7	Fluorene	190	J
7005-72-3	4-Chlorophenyl-phenylether	560	U
100-01-6	4-Nitroaniline	560	U
534-52-1	4,6-Dinitro-2-methylphenol	560	U
86-30-6	N-Nitrosodiphenylamine	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
1912-24-9	Atrazine	560	U
87-86-5	Pentachlorophenol	560	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	380	J
86-74-8	Carbazole	560	U
84-74-2	Di-n-butyl phthalate	~~240~~ 560	~~BJ~~ U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	1800	
85-68-7	Butyl benzyl phthalate	560	U
91-94-1	3,3´-Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	960	
218-01-9	Chrysene	1100	
117-81-7	Bis(2-ethylhexyl)phthalate	~~400~~ 560	~~J~~ U
117-84-0	Di-n-octyl phthalate	560	U
205-99-2	Benzo(b)fluoranthene	320	J
207-08-9	Benzo(k)fluoranthene	600	
50-32-8	Benzo(a)pyrene	620	
193-39-5	Indeno(1,2,3-cd)pyrene	200	J
53-70-3	Dibenzo(a,h)anthracene	140	J
191-24-2	Benzo(g,h,i)perylene	190	J

(1) Cannot be separated from Diphenylamine

AECOM057 S158

1C

EPA SAMPLE NO.

SB-6 (26-28)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50027.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	86	J
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	270	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	UJ
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	390	U

AECOM057 S159

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-6 (26-28)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50027.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butyl phthalate	~~200~~ 390	~~BJ~~ U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~280~~ 390	~~J~~ U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) Cannot be separated from Diphenylamine

AECOM057 S160

1C

EPA SAMPLE NO.

SB-6 (30-32)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50028.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	380	UJ
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	110	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	UJ
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	380	U

AECOM057 S161

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-6 (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50028.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butyl phthalate	~~170~~ 380	~~BJ~~ U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~320~~ 380	~~J~~ U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) Cannot be separated from Diphenylamine

AECOM057 S162

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50488.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20 f

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	U J
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	85	J
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	30000 ~~34000~~	~~E~~
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	33000 ~~33000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	390	U J
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	5500	
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	19000 ~~18000~~	~~E~~
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	2100	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	1500	

AECOM057 S163

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50488.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	14000 ~~13000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	50000 ~~45000~~	~~E~~
120-12-7	Anthracene	13000 ~~11000~~	~~E~~
86-74-8	Carbazole	260	J
84-74-2	Di-n-butyl phthalate	~~160~~ 390	~~BJ~~ U
206-44-0	Fluoranthene	16000 ~~15000~~	~~E~~
129-00-0	Pyrene	23000 ~~23000~~	~~E~~
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	9300 ~~10000~~	~~E~~
218-01-9	Chrysene	8500 ~~8500~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	~~230~~ 390	~~J~~ U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	4800	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	6900 ~~6800~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	940	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) Cannot be separated from Diphenylamine

AECOM057 S164

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50501.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7900	U
100-52-7	Benzaldehyde	7900	U
108-95-2	Phenol	7900	U
111-44-4	Bis(2-chloroethyl)ether	7900	U
95-57-8	2-Chlorophenol	7900	U
95-48-7	2-Methylphenol	7900	U
108-60-1	2,2´-oxybis(1-chloropropane)	7900	U
98-86-2	Acetophenone	7900	U
621-64-7	N-Nitroso-di-n-propylamine	7900	U
67-72-1	Hexachloroethane	7900	U
98-95-3	Nitrobenzene	7900	U
78-59-1	Isophorone	7900	U
88-75-5	2-Nitrophenol	7900	U
105-67-9	2,4-Dimethylphenol	7900	U
111-91-1	Bis(2-chloroethoxy)methane	7900	U
120-83-2	2,4-Dichlorophenol	7900	U
91-20-3	Naphthalene	36000	D
106-47-8	4-Chloroaniline	7900	U
87-68-3	Hexachlorobutadiene	7900	U
105-60-2	Caprolactam	7900	U
59-50-7	4-Chloro-3-methylphenol	7900	U
91-57-6	2-Methylnaphthalene	33000	D
77-47-4	Hexachlorocyclopentadiene	7900	U
88-06-2	2,4,6-Trichlorophenol	7900	U
95-95-4	2,4,5-Trichlorophenol	7900	U
92-52-4	1,1´-Biphenyl	7900	U
91-58-7	2-Chloronaphthalene	7900	U
88-74-4	2-Nitroaniline	7900	U
131-11-3	Dimethylphthalate	7900	U
606-20-2	2,6-Dinitrotoluene	7900	U
208-96-8	Acenaphthylene	19000	D
99-09-2	3-Nitroaniline	7900	U
83-32-9	Acenaphthene	2300	DJ
51-28-5	2,4-Dinitrophenol	7900	U
100-02-7	4-Nitrophenol	7900	U
132-64-9	Dibenzofuran	7900	U

AECOM057 S165

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50501.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7900	U
84-66-2	Diethylphthalate	7900	U
86-73-7	Fluorene	14000	D
7005-72-3	4-Chlorophenyl-phenylether	7900	U
100-01-6	4-Nitroaniline	7900	U
534-52-1	4,6-Dinitro-2-methylphenol	7900	U
86-30-6	N-Nitrosodiphenylamine	7900	U
101-55-3	4-Bromophenyl-phenylether	7900	U
118-74-1	Hexachlorobenzene	7900	U
1912-24-9	Atrazine	7900	U
87-86-5	Pentachlorophenol	7900	U
85-01-8	Phenanthrene	50000	D
120-12-7	Anthracene	13000	D
86-74-8	Carbazole	7900	U
84-74-2	Di-n-butyl phthalate	7900	U
206-44-0	Fluoranthene	16000	D
129-00-0	Pyrene	23000	D
85-68-7	Butyl benzyl phthalate	7900	U
91-94-1	3,3´-Dichlorobenzidine	7900	U
56-55-3	Benzo(a)anthracene	9300	D
218-01-9	Chrysene	8800	D
117-81-7	Bis(2-ethylhexyl)phthalate	7900	U
117-84-0	Di-n-octyl phthalate	7900	U
205-99-2	Benzo(b)fluoranthene	3800	DJ
207-08-9	Benzo(k)fluoranthene	3400	DJ
50-32-8	Benzo(a)pyrene	6900	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	2100	DJ
53-70-3	Dibenzo(a,h)anthracene	7900	U
191-24-2	Benzo(g,h,i)perylene	2200	DJ

(1) Cannot be separated from Diphenylamine

AECOM057 S166

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-12B (48-50)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50485.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 21.8 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U J
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	420	U

AECOM057 S167

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-12B (48-50)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50485.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 21.8 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butyl phthalate	~~95~~ 420	~~BJ~~ U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butyl benzyl phthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~100~~ 420	~~J~~ U
117-84-0	Di-n-octyl phthalate	140	J
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be separated from Diphenylamine

AECOM057 S168

1C

EPA SAMPLE NO.

SB-6 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\B24215.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/30/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) mg/Kg	Q
	Alkylate 6	11	U
	DCL 100	11	U
	DCL 45	11	U
	DF 100	11	U
	Fuel Oil 2	11	U
	Diala A	11	U
	Fuel Oil 4	11	U
	Fuel Oil 6	11	U
	Gasoline	11	U
	High Viscosity Polybutene	11	U
	HYVOLT I	11	U
	HYVOLT II	11	U
	JP4 (Aviation Fuel)	11	U
	Kerosene	11	U
	Low Viscosity Polybutene	11	U
	Motor Oil	11	U
	Petroleum Base Transformer Oil	11	U
	DiChevrol Fluid 100 Cable Oil	11	U
	Sun 4 Cable Oil	11	U
	DiChevrol Fluid 500 Cable Oil	11	U
	Sun 6 Cable Oil	11	U
	Diesel Fuel Oil	11	U
	Total Petroleum Hydrocarbons	1000	X
	Silicone Base Transformer Oil	11	U
	Univolt 60 Transformer Oil	11	U

~~XT~~ Cannot be separated from Diphenylamine

CP 11.23.09

X = no match with targeted substances. Elutes slightly earlier than Sun 6 cable oil.

AECOM057 D16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-4 (36'-38')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-001

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3130			P
7440-36-0	Antimony	0.55	B	J N	P
7440-38-2	Arsenic	0.79	B	J	P
7440-39-3	Barium	24.9			P
7440-41-7	Beryllium	0.25	B	J	P
7440-43-9	Cadmium	0.16	B	J	P
7440-70-2	Calcium	5390			P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	4.0	B	J	P
7440-50-8	Copper	5.8			P
7439-89-6	Iron	10000			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	4470			P
7439-96-5	Manganese	154			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	892			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	578	B	J	P
7440-28-0	Thallium	0.73	B	J	P
7440-62-2	Vanadium	12.7			P
7440-66-6	Zinc	18.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-4 (44'-46')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-002

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900			P
7440-36-0	Antimony	1.2	B	J N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	136			P
7440-41-7	Beryllium	0.60	B	J	P
7440-43-9	Cadmium	0.24	B	J	P
7440-70-2	Calcium	11300			P
7440-47-3	Chromium	27.9			P
7440-48-4	Cobalt	12.0			P
7440-50-8	Copper	24.9			P
7439-89-6	Iron	24000			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	10300			P
7439-96-5	Manganese	476			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	24.8			P
7440-09-7	Potassium	3910			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	1720			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	36.5			P
7440-66-6	Zinc	57.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-1 (12')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-003

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6240			P
7440-36-0	Antimony	2.6	B	J N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	316		J	P
7440-41-7	Beryllium	0.42	B	J	P
7440-43-9	Cadmium	0.46	B	J	P
7440-70-2	Calcium	6970			P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	5.5	B	J	P
7440-50-8	Copper	57.0			P
	~~Free Cyanid~~	~~0~~	~~B~~	N	CA
7439-89-6	Iron	12300			P
7439-92-1	Lead	195			P
7439-95-4	Magnesium	2530			P
7439-96-5	Manganese	147			P
7439-97-6	Mercury	0.46		J	CV
7440-02-0	Nickel	13.3			P
7440-09-7	Potassium	992			P
7782-49-2	Selenium	0.33	B	J	P
7440-22-4	Silver	0.21	B	J	P
7440-23-5	Sodium	132	B	J	P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	21.8			P
7440-66-6	Zinc	282		J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (14-16)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-001

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7380			P
7440-36-0	Antimony	0.70	B	J N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	38.3			P
7440-41-7	Beryllium	0.44	B	J	P
7440-43-9	Cadmium	0.13	B	J	P
7440-70-2	Calcium	1250			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	14.4			P
7439-89-6	Iron	18300			P
7439-92-1	Lead	34.4			P
7439-95-4	Magnesium	1680			P
7439-96-5	Manganese	298			P
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel	9.8			P
7440-09-7	Potassium	765			P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.098	U		P
7440-23-5	Sodium	298	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	26.2			P
7440-66-6	Zinc	33.1			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (37-38)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-002

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 83.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3700			P
7440-36-0	Antimony	0.45	B	J N	P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	24.9			P
7440-41-7	Beryllium	0.24	B	J	P
7440-43-9	Cadmium	0.66			P
7440-70-2	Calcium	4840			P
7440-47-3	Chromium	12.2			P
7440-48-4	Cobalt	4.4	B	J	P
7440-50-8	Copper	12.2			P
7439-89-6	Iron	11600			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	4540			P
7439-96-5	Manganese	123			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	1260			P
7782-49-2	Selenium	0.75		J	P
7440-22-4	Silver	0.10	B	J	P
7440-23-5	Sodium	219	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	18.7			P
7440-66-6	Zinc	24.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (42-44)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-003

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 74.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18200			P
7440-36-0	Antimony	1.6	B	J N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	182			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	0.37	B	J	P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	44.7			P
7440-48-4	Cobalt	17.7			P
7440-50-8	Copper	34.0			P
7439-89-6	Iron	35700			P
7439-92-1	Lead	11.2			P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	593			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	37.7			P
7440-09-7	Potassium	6830			P
7782-49-2	Selenium	0.33	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	1940			P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	54.2			P
7440-66-6	Zinc	84.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1 (5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-001

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6500			P
7440-36-0	Antimony	2.9	B	J N	P
7440-38-2	Arsenic	11.9			P
7440-39-3	Barium	73.1			P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.89			P
7440-70-2	Calcium	5590			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	131			P
7439-89-6	Iron	28500			P
7439-92-1	Lead	75.3			P
7439-95-4	Magnesium	3400			P
7439-96-5	Manganese	351			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	43.8			P
7440-09-7	Potassium	925			P
7782-49-2	Selenium	0.57	B	J	P
7440-22-4	Silver	0.30	B	J	P
7440-23-5	Sodium	296	B	J	P
7440-28-0	Thallium	0.93	B	J	P
7440-62-2	Vanadium	28.0			P
7440-66-6	Zinc	402			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (20-22)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-002

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 35.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			P
7440-36-0	Antimony	0.60	U	J N	P
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium	35.3	B	J	P
7440-41-7	Beryllium	0.51	B	J	P
7440-43-9	Cadmium	0.28	B	J	P
7440-70-2	Calcium	4590			P
7440-47-3	Chromium	23.6			P
7440-48-4	Cobalt	6.5	B	J	P
7440-50-8	Copper	8.1			P
7439-89-6	Iron	14200			P
7439-92-1	Lead	14.0			P
7439-95-4	Magnesium	4160			P
7439-96-5	Manganese	146			P
7439-97-6	Mercury	0.047	U		CV
7440-02-0	Nickel	15.4			P
7440-09-7	Potassium	2440			P
7782-49-2	Selenium	1.2	B	J	P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	3430			P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	42.4			P
7440-66-6	Zinc	33.4			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (38-40)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-003

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1880			P
7440-36-0	Antimony	0.25	~~B~~	J N	P
7440-38-2	Arsenic	1.0	~~B~~	J	P
7440-39-3	Barium	13.7	~~B~~	J	P
7440-41-7	Beryllium	0.14	~~B~~	J	P
7440-43-9	Cadmium	0.049	~~B~~	J	P
7440-70-2	Calcium	708			P
7440-47-3	Chromium	6.7			P
7440-48-4	Cobalt	2.2	~~B~~	J	P
7440-50-8	Copper	3.9			P
7439-89-6	Iron	5540			P
7439-92-1	Lead	1.7			P
7439-95-4	Magnesium	1020			P
7439-96-5	Manganese	56.4			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	4.6	~~B~~	J	P
7440-09-7	Potassium	403	~~B~~	J	P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium	286	~~B~~	J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	11.4			P
7440-66-6	Zinc	12.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (54-56)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-004

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4980			P
7440-36-0	Antimony	0.82	B	J N	P
7440-38-2	Arsenic	1.1	B	J	P
7440-39-3	Barium	32.1			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	0.089	B	J	P
7440-70-2	Calcium	2900			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	5.5	B	J	P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	22500			P
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium	2720			P
7439-96-5	Manganese	266			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	881			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.10	B	J	P
7440-23-5	Sodium	165	B	J	P
7440-28-0	Thallium	0.78	B	J	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	21.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-16B (30-32)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-005

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3860			P
7440-36-0	Antimony	0.54	B	J N	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	21.7	B	J	P
7440-41-7	Beryllium	0.24	B	J	P
7440-43-9	Cadmium	0.12	B	J	P
7440-70-2	Calcium	4920			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	4.8	B	J	P
7440-50-8	Copper	8.6			P
7439-89-6	Iron	11000			P
7439-92-1	Lead	3.0			P
7439-95-4	Magnesium	4580			P
7439-96-5	Manganese	191			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	223	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	27.0			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-16B (44-46)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-006

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900			P
7440-36-0	Antimony	1.5	B	J N	P
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	155			P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.37	B	J	P
7440-70-2	Calcium	12200			P
7440-47-3	Chromium	37.9			P
7440-48-4	Cobalt	15.1			P
7440-50-8	Copper	28.6			P
7439-89-6	Iron	30400			P
7439-92-1	Lead	9.4			P
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	519			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	31.6			P
7440-09-7	Potassium	5680			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	1780			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	46.8			P
7440-66-6	Zinc	71.3			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (16-18)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-001

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 58.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4120			P
7440-36-0	Antimony	4.1	B	J N	P
7440-38-2	Arsenic	14.9			P
7440-39-3	Barium	963			P
7440-41-7	Beryllium	0.39	B	J	P
7440-43-9	Cadmium	0.058	U		P
7440-70-2	Calcium	31200			P
7440-47-3	Chromium	54.9			P
7440-48-4	Cobalt	6.4	B	J	P
7440-50-8	Copper	78.4			P
7439-89-6	Iron	79700			P
7439-92-1	Lead	1120			P
7439-95-4	Magnesium	2020			P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	4.9			CV
7440-02-0	Nickel	12.9			P
7440-09-7	Potassium	800	B	J	P
7782-49-2	Selenium	2.1		J	P
7440-22-4	Silver	0.80	B	J	P
7440-23-5	Sodium	2030			P
7440-28-0	Thallium	4.9			P
7440-62-2	Vanadium	18.6			P
7440-66-6	Zinc	582			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (26-28)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-002

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2600			P
7440-36-0	Antimony	0.42	B	J N	P
7440-38-2	Arsenic	0.30	B	J	P
7440-39-3	Barium	14.8	B	J	P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.050	B	J	P
7440-70-2	Calcium	620			P
7440-47-3	Chromium	7.5			P
7440-48-4	Cobalt	2.3	B	J	P
7440-50-8	Copper	5.1			P
7439-89-6	Iron	4740			P
7439-92-1	Lead	2.6			P
7439-95-4	Magnesium	1160			P
7439-96-5	Manganese	60.7			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	4.3	B	J	P
7440-09-7	Potassium	446	B	J	P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	564	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	9.2			P
7440-66-6	Zinc	13.5			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (30-32)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-003

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4690			P
7440-36-0	Antimony	0.98	B	J N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	37.3			P
7440-41-7	Beryllium	0.32	B	J	P
7440-43-9	Cadmium	0.15	B	J	P
7440-70-2	Calcium	829			P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	6.2			P
7440-50-8	Copper	10.5			P
7439-89-6	Iron	27300			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	2250			P
7439-96-5	Manganese	205			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	11.4			P
7440-09-7	Potassium	752			P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.096	U		P
7440-23-5	Sodium	407	B	J	P
7440-28-0	Thallium	1.0	B	J	P
7440-62-2	Vanadium	20.4			P
7440-66-6	Zinc	21.3			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12B (40-42)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0912042-001

Level (low/med): LOW Date Received: 11/4/2009

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7240			P
7440-36-0	Antimony	0.84	B	J N	P
7440-38-2	Arsenic	0.62	B	J	P
7440-39-3	Barium	60.1			P
7440-41-7	Beryllium	0.41	B	J	P
7440-43-9	Cadmium	0.26	B	J	P
7440-70-2	Calcium	9190			P
7440-47-3	Chromium	18.5			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	20400			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	8100			P
7439-96-5	Manganese	476			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	16.8			P
7440-09-7	Potassium	2570			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	980			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	26.4			P
7440-66-6	Zinc	41.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M20

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12B (48-50)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0912042-002

Level (low/med): LOW Date Received: 11/4/2009

% Solids: 78.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8720			P
7440-36-0	Antimony	0.86	B	J N	P
7440-38-2	Arsenic	1.7			P
7440-39-3	Barium	94.3			P
7440-41-7	Beryllium	0.47	B	J	P
7440-43-9	Cadmium	0.29	B	J	P
7440-70-2	Calcium	11600			P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	20.0			P
7439-89-6	Iron	20700			P
7439-92-1	Lead	6.4			P
7439-95-4	Magnesium	9170			P
7439-96-5	Manganese	366			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	19.4			P
7440-09-7	Potassium	3200			P
7782-49-2	Selenium	0.32	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	1580			P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	32.4			P
7440-66-6	Zinc	47.7			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M21

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911045-001
ClientSample ID. : SB-4 (36'-38')

Sample Information...
Type : Soil

Origin:

Collected : 10/7/2009 4:00:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99 057
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:17 AM
Percent Moisture	18.1		1	wt%	D2216	10/12/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S190

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911045-002**
ClientSample ID. : SB-4 (44'-46')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 10:00:00 AM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62	U J	1	mg/Kg-dry	SW9014	10/20/2009 11:18 AM
Percent Moisture	19.4		1	wt%	D2216	10/12/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S191

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911045-003**
ClientSample ID. : TP-1 (12')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 1:20:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	10/16/2009 6:15 PM
Percent Moisture	20.5		1	wt%	D2216	10/12/2009 8:44 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S192

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911284-001
ClientSample ID. : SB-2B (14-16)

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 12:00:00 PM
Received : 10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:19 AM
Percent Moisture	15.2		1	wt%	D2216	10/19/2009 12:01 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S193

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911284-002

ClientSample ID. : SB-2B (37-38)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :10/14/2009 4:00:00 PM
Received :10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60	U	1	mg/Kg-dry	SW9014	10/20/2009 11:22 AM
Percent Moisture	16.4		1	wt%	D2216	10/19/2009 12:02 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S194

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911284-003
ClientSample ID. : SB-2B (42-44)

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 4:30:00 PM
Received : 10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.67	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:23 AM
Percent Moisture	25.6		1	wt%	D2216	10/19/2009 12:03 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S195

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-001

ClientSample ID. : SB-1 (5)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/20/2009 10:45:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:13 PM
Percent Moisture	13.3		1	wt%	D2216	10/23/2009 8:39 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S196

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-002

ClientSample ID. : SB-14B (20-22)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 10:00:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 1.40	UJ	1	mg/Kg-dry	SW9014	11/03/2009 12:16 PM
Percent Moisture	64.3		1	wt%	D2216	10/23/2009 8:40 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S197

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911468-003**
ClientSample ID. : **SB-14B (38-40)**

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 11:30:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:17 PM
Percent Moisture	13.1		1	wt%	D2216	10/23/2009 8:41 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S198

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911468-004
ClientSample ID. : SB-14B (54-56)

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 2:00:00 PM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	11/03/2009 12:18 PM
Percent Moisture	11.1		1	wt%	D2216	10/23/2009 8:42 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S199

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911468-005**
ClientSample ID. : **SB-16B (30-32)**

Sample Information...
Type : Soil

Origin:

Collected : 10/19/2009 2:00:00 PM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To : Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/03/2009 12:19 PM
Percent Moisture	16.5		1	wt%	D2216	10/23/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S200

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-006

ClientSample ID. : SB-16B (44-46)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :10/19/2009 2:00:00 PM
Received :10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	11/03/2009 12:22 PM
Percent Moisture	20.2		1	wt%	D2216	10/23/2009 8:44 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S201

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911495-001**
ClientSample ID. : SB-6 (16-18)

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 10:30:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.86		1	mg/Kg-dry	SW9014	11/03/2009 12:27 PM
Percent Moisture	41.5		1	wt%	D2216	10/27/2009 9:30 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S202

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911495-002

ClientSample ID. : SB-6 (26-28)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 11:06:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/03/2009 12:26 PM
Percent Moisture	16.3		1	wt%	D2216	10/27/2009 9:31 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S203

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911495-003**
ClientSample ID. : **SB-6 (30-32)**

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 11:26:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
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Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:28 PM
Percent Moisture	14.1		1	wt%	D2216	10/27/2009 9:32 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S204

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912042-001

ClientSample ID. : SB-12B (40-42)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :11/3/2009 9:30:00 AM
Received :11/4/2009 4:25:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/10/2009 4:43 PM
Percent Moisture	16.0		1	wt%	D2216	11/09/2009 1:57 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S205

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912042-002

ClientSample ID. : SB-12B (48-50)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :11/3/2009 11:15:00 AM
Received :11/4/2009 4:25:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		1	mg/Kg-dry	SW9014	11/10/2009 4:44 PM
Percent Moisture	21.8		1	wt%	D2216	11/09/2009 1:58 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S206

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1 (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50029.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	460	J
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	390	
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	470	
77-47-4	Hexachlorocyclopentadiene	380	UJ
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	130	J
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	110	J
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	78	J

AECOM057 S139

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-1 (5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50029.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	150	J
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	370	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	2200	
129-00-0	Pyrene	2200	
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	790	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	520	
53-70-3	Dibenzo(a,h)anthracene	270	J
191-24-2	Benzo(g,h,i)perylene	400	

(1) Cannot be separated from Diphenylamine

AECOM057 S140

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50030.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 50x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	2600	J
100-52-7	Benzaldehyde	920	U J
108-95-2	Phenol	550	J
111-44-4	Bis(2-chloroethyl)ether	920	U J
95-57-8	2-Chlorophenol	920	U J
95-48-7	2-Methylphenol	920	J
108-60-1	2,2'-oxybis(1-chloropropane)	920	U J
98-86-2	Acetophenone	920	U J
621-64-7	N-Nitroso-di-n-propylamine	920	U J
67-72-1	Hexachloroethane	920	U J
98-95-3	Nitrobenzene	920	U J
78-59-1	Isophorone	920	U J
88-75-5	2-Nitrophenol	920	U J
105-67-9	2,4-Dimethylphenol	2100	J
111-91-1	Bis(2-chloroethoxy)methane	920	U J
120-83-2	2,4-Dichlorophenol	920	U J
91-20-3	Naphthalene	440000 ~~310000~~	~~E~~ J
106-47-8	4-Chloroaniline	920	U J
87-68-3	Hexachlorobutadiene	920	U J
105-60-2	Caprolactam	920	U J
59-50-7	4-Chloro-3-methylphenol	920	U J
91-57-6	2-Methylnaphthalene	110000 ~~120000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	920	U J
88-06-2	2,4,6-Trichlorophenol	920	U J
95-95-4	2,4,5-Trichlorophenol	920	U J
92-52-4	1,1'-Biphenyl	7400	J
91-58-7	2-Chloronaphthalene	920	U J
88-74-4	2-Nitroaniline	920	U J
131-11-3	Dimethylphthalate	920	U J
606-20-2	2,6-Dinitrotoluene	920	U J
208-96-8	Acenaphthylene	810	J
99-09-2	3-Nitroaniline	920	U J
83-32-9	Acenaphthene	5200	J
51-28-5	2,4-Dinitrophenol	920	U J
100-02-7	4-Nitrophenol	920	U J
132-64-9	Dibenzofuran	1600	J

15, 50x

AECOM057 S141

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50030.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	920	U J
84-66-2	Diethylphthalate	920	U J
86-73-7	Fluorene	8300	J
7005-72-3	4-Chlorophenyl-phenylether	920	U J
100-01-6	4-Nitroaniline	920	U J
534-52-1	4,6-Dinitro-2-methylphenol	920	U J
86-30-6	N-Nitrosodiphenylamine	920	U J
101-55-3	4-Bromophenyl-phenylether	920	U J
118-74-1	Hexachlorobenzene	920	U J
1912-24-9	Atrazine	920	U J
87-86-5	Pentachlorophenol	920	U J
85-01-8	Phenanthrene	5900	J
120-12-7	Anthracene	1100	J
86-74-8	Carbazole	2300	J
84-74-2	Di-n-butyl phthalate	~~410~~ 920	U BJ
206-44-0	Fluoranthene	650	J
129-00-0	Pyrene	890	J
85-68-7	Butyl benzyl phthalate	920	U J
91-94-1	3,3´-Dichlorobenzidine	920	U J
56-55-3	Benzo(a)anthracene	390	J
218-01-9	Chrysene	430	J
117-81-7	Bis(2-ethylhexyl)phthalate	~~230~~ 920	~~J~~ UJ
117-84-0	Di-n-octyl phthalate	920	U J
205-99-2	Benzo(b)fluoranthene	920	U J
207-08-9	Benzo(k)fluoranthene	920	U J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	920	U J
53-70-3	Dibenzo(a,h)anthracene	920	U J
191-24-2	Benzo(g,h,i)perylene	920	U J

(1) Cannot be separated from Diphenylamine

AECOM057 S142

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (20-22)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50060.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	46000	U
100-52-7	Benzaldehyde	46000	U
108-95-2	Phenol	46000	U
111-44-4	Bis(2-chloroethyl)ether	46000	U
95-57-8	2-Chlorophenol	46000	U
95-48-7	2-Methylphenol	46000	U
108-60-1	2,2'-oxybis(1-chloropropane)	46000	U
98-86-2	Acetophenone	46000	U
621-64-7	N-Nitroso-di-n-propylamine	46000	U
67-72-1	Hexachloroethane	46000	U
98-95-3	Nitrobenzene	46000	U
78-59-1	Isophorone	46000	U
88-75-5	2-Nitrophenol	46000	U
105-67-9	2,4-Dimethylphenol	46000	U
111-91-1	Bis(2-chloroethoxy)methane	46000	U
120-83-2	2,4-Dichlorophenol	46000	U
91-20-3	Naphthalene	440000	D
106-47-8	4-Chloroaniline	46000	U
87-68-3	Hexachlorobutadiene	46000	U
105-60-2	Caprolactam	46000	U
59-50-7	4-Chloro-3-methylphenol	46000	U
91-57-6	2-Methylnaphthalene	110000	D
77-47-4	Hexachlorocyclopentadiene	46000	U
88-06-2	2,4,6-Trichlorophenol	46000	U
95-95-4	2,4,5-Trichlorophenol	46000	U
92-52-4	1,1'-Biphenyl	46000	U
91-58-7	2-Chloronaphthalene	46000	U
88-74-4	2-Nitroaniline	46000	U
131-11-3	Dimethylphthalate	46000	U
606-20-2	2,6-Dinitrotoluene	46000	U
208-96-8	Acenaphthylene	46000	U
99-09-2	3-Nitroaniline	46000	U
83-32-9	Acenaphthene	46000	U
51-28-5	2,4-Dinitrophenol	46000	U
100-02-7	4-Nitrophenol	46000	U
132-64-9	Dibenzofuran	46000	U

AECOM057 S143

1D

EPA SAMPLE NO.

SB-14B (20-22)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50060.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 64.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	46000	U
84-66-2	Diethylphthalate	46000	U
86-73-7	Fluorene	46000	U
7005-72-3	4-Chlorophenyl-phenylether	46000	U
100-01-6	4-Nitroaniline	46000	U
534-52-1	4,6-Dinitro-2-methylphenol	46000	U
86-30-6	N-Nitrosodiphenylamine	46000	U
101-55-3	4-Bromophenyl-phenylether	46000	U
118-74-1	Hexachlorobenzene	46000	U
1912-24-9	Atrazine	46000	U
87-86-5	Pentachlorophenol	46000	U
85-01-8	Phenanthrene	46000	U
120-12-7	Anthracene	46000	U
86-74-8	Carbazole	46000	U
84-74-2	Di-n-butyl phthalate	46000	U
206-44-0	Fluoranthene	46000	U
129-00-0	Pyrene	46000	U
85-68-7	Butyl benzyl phthalate	46000	U
91-94-1	3,3'-Dichlorobenzidine	46000	U
56-55-3	Benzo(a)anthracene	46000	U
218-01-9	Chrysene	46000	U
117-81-7	Bis(2-ethylhexyl)phthalate	46000	U
117-84-0	Di-n-octyl phthalate	46000	U
205-99-2	Benzo(b)fluoranthene	46000	U
207-08-9	Benzo(k)fluoranthene	46000	U
50-32-8	Benzo(a)pyrene	46000	U
193-39-5	Indeno(1,2,3-cd)pyrene	46000	U
53-70-3	Dibenzo(a,h)anthracene	46000	U
191-24-2	Benzo(g,h,i)perylene	46000	U

(1) Cannot be separated from Diphenylamine

AECOM057 S144

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50034.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 2000 x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7600	U
100-52-7	Benzaldehyde	7600	U J
108-95-2	Phenol	7600	U
111-44-4	Bis(2-chloroethyl)ether	7600	U
95-57-8	2-Chlorophenol	7600	U
95-48-7	2-Methylphenol	7600	U
108-60-1	2,2'-oxybis(1-chloropropane)	7600	U
98-86-2	Acetophenone	7600	U
621-64-7	N-Nitroso-di-n-propylamine	7600	U
67-72-1	Hexachloroethane	7600	U
98-95-3	Nitrobenzene	7600	U
78-59-1	Isophorone	7600	U
88-75-5	2-Nitrophenol	7600	U
105-67-9	2,4-Dimethylphenol	7600	U
111-91-1	Bis(2-chloroethoxy)methane	7600	U
120-83-2	2,4-Dichlorophenol	7600	U
91-20-3	Naphthalene 7400000	~~5700000~~	~~E~~ J
106-47-8	4-Chloroaniline	7600	U
87-68-3	Hexachlorobutadiene	7600	U
105-60-2	Caprolactam	7600	U
59-50-7	4-Chloro-3-methylphenol	7600	U
91-57-6	2-Methylnaphthalene 3060000	~~3500000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	7600	U J
88-06-2	2,4,6-Trichlorophenol	7600	U
95-95-4	2,4,5-Trichlorophenol	7600	U
92-52-4	1,1'-Biphenyl	280000	~~E~~ J
91-58-7	2-Chloronaphthalene	7600	U
88-74-4	2-Nitroaniline	7600	U
131-11-3	Dimethylphthalate	7600	U
606-20-2	2,6-Dinitrotoluene	7600	U
208-96-8	Acenaphthylene 1000000	~~760000~~	~~E~~ J
99-09-2	3-Nitroaniline	7600	U
83-32-9	Acenaphthene	220000	~~E~~ J
51-28-5	2,4-Dinitrophenol	7600	U
100-02-7	4-Nitrophenol	7600	U
132-64-9	Dibenzofuran	62000	J

AECOM057 S145

1D

EPA SAMPLE NO.

SB-14B (38-40)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50034.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7600	U
84-66-2	Diethylphthalate	7600	U
86-73-7	Fluorene	520000 ~~510000~~	~~E~~ J
7005-72-3	4-Chlorophenyl-phenylether	7600	U
100-01-6	4-Nitroaniline	7600	U
534-52-1	4,6-Dinitro-2-methylphenol	7600	U
86-30-6	N-Nitrosodiphenylamine	7600	U
101-55-3	4-Bromophenyl-phenylether	7600	U
118-74-1	Hexachlorobenzene	7600	U
1912-24-9	Atrazine	7600	U
87-86-5	Pentachlorophenol	7600	U
85-01-8	Phenanthrene	1800000 ~~1300000~~	~~E~~ J
120-12-7	Anthracene	460000 ~~440000~~	~~E~~ J
86-74-8	Carbazole	15000	J
84-74-2	Di-n-butyl phthalate	7600	U
206-44-0	Fluoranthene	520000 ~~440000~~	~~E~~ J
129-00-0	Pyrene	870000 ~~780000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	7600	U J
91-94-1	3,3'-Dichlorobenzidine	7600	U J
56-55-3	Benzo(a)anthracene	320000 ~~310000~~	~~E~~ J
218-01-9	Chrysene	320000 ~~250000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	7600	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~7600~~	~~U~~ R
205-99-2	Benzo(b)fluoranthene	120000	J
207-08-9	Benzo(k)fluoranthene	160000	~~E~~ J
50-32-8	Benzo(a)pyrene	200000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	31000	J
53-70-3	Dibenzo(a,h)anthracene	20000	J
191-24-2	Benzo(g,h,i)perylene	27000	J

13 SUB

(1) Cannot be separated from Diphenylamine

AECOM057 S146

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50062.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1500000	U
100-52-7	Benzaldehyde	1500000	U
108-95-2	Phenol	1500000	U
111-44-4	Bis(2-chloroethyl)ether	1500000	U
95-57-8	2-Chlorophenol	1500000	U
95-48-7	2-Methylphenol	1500000	U
108-60-1	2,2'-oxybis(1-chloropropane)	1500000	U
98-86-2	Acetophenone	1500000	U
621-64-7	N-Nitroso-di-n-propylamine	1500000	U
67-72-1	Hexachloroethane	1500000	U
98-95-3	Nitrobenzene	1500000	U
78-59-1	Isophorone	1500000	U
88-75-5	2-Nitrophenol	1500000	U
105-67-9	2,4-Dimethylphenol	1500000	U
111-91-1	Bis(2-chloroethoxy)methane	1500000	U
120-83-2	2,4-Dichlorophenol	1500000	U
91-20-3	Naphthalene	7400000	D ✓
106-47-8	4-Chloroaniline	1500000	U
87-68-3	Hexachlorobutadiene	1500000	U
105-60-2	Caprolactam	1500000	U
59-50-7	4-Chloro-3-methylphenol	1500000	U
91-57-6	2-Methylnaphthalene	3000000	D ✓
77-47-4	Hexachlorocyclopentadiene	1500000	U
88-06-2	2,4,6-Trichlorophenol	1500000	U
95-95-4	2,4,5-Trichlorophenol	1500000	U
92-52-4	1,1'-Biphenyl	1500000	U — report orig DL
91-58-7	2-Chloronaphthalene	1500000	U
88-74-4	2-Nitroaniline	1500000	U
131-11-3	Dimethylphthalate	1500000	U
606-20-2	2,6-Dinitrotoluene	1500000	U
208-96-8	Acenaphthylene	1000000	DJ ✓
99-09-2	3-Nitroaniline	1500000	U
83-32-9	Acenaphthene	1500000	U — report orig DL
51-28-5	2,4-Dinitrophenol	1500000	U
100-02-7	4-Nitrophenol	1500000	U
132-64-9	Dibenzofuran	1500000	U

AECOM057 S147

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (38-40)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50062.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 13.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1500000	U
84-66-2	Diethylphthalate	1500000	U
86-73-7	Fluorene	520000	DJ
7005-72-3	4-Chlorophenyl-phenylether	1500000	U
100-01-6	4-Nitroaniline	1500000	U
534-52-1	4,6-Dinitro-2-methylphenol	1500000	U
86-30-6	N-Nitrosodiphenylamine	1500000	U
101-55-3	4-Bromophenyl-phenylether	1500000	U
118-74-1	Hexachlorobenzene	1500000	U
1912-24-9	Atrazine	1500000	U
87-86-5	Pentachlorophenol	1500000	U
85-01-8	Phenanthrene	1800000	D
120-12-7	Anthracene	460000	DJ
86-74-8	Carbazole	1500000	U
84-74-2	Di-n-butyl phthalate	1500000	U
206-44-0	Fluoranthene	520000	DJ
129-00-0	Pyrene	870000	DJ
85-68-7	Butyl benzyl phthalate	1500000	U
91-94-1	3,3'-Dichlorobenzidine	1500000	U
56-55-3	Benzo(a)anthracene	320000	DJ
218-01-9	Chrysene	320000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	1500000	U
117-84-0	Di-n-octyl phthalate	1500000	U
205-99-2	Benzo(b)fluoranthene	1500000	U
207-08-9	Benzo(k)fluoranthene	1500000	U
50-32-8	Benzo(a)pyrene	1500000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1500000	U
53-70-3	Dibenzo(a,h)anthracene	1500000	U
191-24-2	Benzo(g,h,i)perylene	1500000	U

report avg. DL

(1) Cannot be separated from Diphenylamine

AECOM057 S148

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-14B (54-56)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50023.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 11.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	370	U
100-52-7	Benzaldehyde	370	UJ
108-95-2	Phenol	370	U
111-44-4	Bis(2-chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2´-oxybis(1-chloropropane)	370	U
98-86-2	Acetophenone	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	Bis(2-chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
91-20-3	Naphthalene	860	
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
105-60-2	Caprolactam	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	560	
77-47-4	Hexachlorocyclopentadiene	370	UJ
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
92-52-4	1,1´-Biphenyl	120	J
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	88	J
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	300	J
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	370	U

AECOM057 S149

1D

EPA SAMPLE NO.

SB-14B (54-56)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-004B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50023.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 11.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	150	J
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
1912-24-9	Atrazine	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	100	J
86-74-8	Carbazole	370	U
84-74-2	Di-n-butyl phthalate	~~220~~ 370	~~BJ~~ U
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	140	J
85-68-7	Butyl benzyl phthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~330~~ 370	~~J~~ U
117-84-0	Di-n-octyl phthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) Cannot be separated from Diphenylamine

AECOM057 S150

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50031.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /50x

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	U J
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	12000 ~~11000~~	~~E~~ J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	80000 ~~100000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	400	U J
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	24000 ~~20000~~	~~E~~
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	16000 ~~12000~~	~~E~~ J
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	45000 ~~55000~~	~~E~~
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	4200	

AECOM057 S151

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50031.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	62000 ~~40000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U J
86-30-6	N-Nitrosodiphenylamine	400	U J
101-55-3	4-Bromophenyl-phenylether	400	U J
118-74-1	Hexachlorobenzene	400	U J
1912-24-9	Atrazine	400	U J
87-86-5	Pentachlorophenol	400	U J
85-01-8	Phenanthrene	190000 ~~130000~~	~~E~~
120-12-7	Anthracene	37000 ~~34000~~	~~E~~
86-74-8	Carbazole	2000	J
84-74-2	Di-n-butyl phthalate	400	U J
206-44-0	Fluoranthene	62000 ~~38000~~	~~E~~
129-00-0	Pyrene	99000 ~~74000~~	~~E~~
85-68-7	Butyl benzyl phthalate	400	U J
91-94-1	3,3'-Dichlorobenzidine	400	U J
56-55-3	Benzo(a)anthracene	40000 ~~44000~~	~~E~~
218-01-9	Chrysene	40000 ~~23000~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	400	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	400	U R 13
205-99-2	Benzo(b)fluoranthene	19000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	18000 ~~11000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	28000 ~~22000~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	3900	J
53-70-3	Dibenzo(a,h)anthracene	2200	J
191-24-2	Benzo(g,h,i)perylene	3600	J

(1) Cannot be separated from Diphenylamine

AECOM057 S152

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (30-32)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50061.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	20000	U
100-52-7	Benzaldehyde	20000	U
108-95-2	Phenol	20000	U
111-44-4	Bis(2-chloroethyl)ether	20000	U
95-57-8	2-Chlorophenol	20000	U
95-48-7	2-Methylphenol	20000	U
108-60-1	2,2´-oxybis(1-chloropropane)	20000	U
98-86-2	Acetophenone	20000	U
621-64-7	N-Nitroso-di-n-propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
111-91-1	Bis(2-chloroethoxy)methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
91-20-3	Naphthalene	12000	DJ
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
105-60-2	Caprolactam	20000	U
59-50-7	4-Chloro-3-methylphenol	20000	U
91-57-6	2-Methylnaphthalene	180000	D
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	20000	U
92-52-4	1,1´-Biphenyl	24000	D
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethylphthalate	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U
208-96-8	Acenaphthylene	16000	DJ
99-09-2	3-Nitroaniline	20000	U
83-32-9	Acenaphthene	95000	D
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	5400	DJ

AECOM057 S153

1D

EPA SAMPLE NO.

SB-16B (30-32)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-005BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50061.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 16.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
86-73-7	Fluorene	62000	D
7005-72-3	4-Chlorophenyl-phenylether	20000	U
100-01-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
1912-24-9	Atrazine	20000	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	190000	D
120-12-7	Anthracene	51000	D
86-74-8	Carbazole	20000	U
84-74-2	Di-n-butyl phthalate	20000	U
206-44-0	Fluoranthene	62000	D
129-00-0	Pyrene	99000	D
85-68-7	Butyl benzyl phthalate	20000	U
91-94-1	3,3´-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)anthracene	40000	D
218-01-9	Chrysene	40000	D
117-81-7	Bis(2-ethylhexyl)phthalate	20000	U
117-84-0	Di-n-octyl phthalate	20000	U
205-99-2	Benzo(b)fluoranthene	13000	DJ
207-08-9	Benzo(k)fluoranthene	18000	DJ
50-32-8	Benzo(a)pyrene	28000	D
193-39-5	Indeno(1,2,3-cd)pyrene	8900	DJ
53-70-3	Dibenzo(a,h)anthracene	20000	U
191-24-2	Benzo(g,h,i)perylene	10000	DJ

repeat orig.

(1) Cannot be separated from Diphenylamine

AECOM057 S154

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-16B (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50024.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 20.2 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	500	
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	410	UJ
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	200	J
51-28-5	2,4-Dinitrophenol	410	U
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM057 S155

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-16B (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911468-006B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50024.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 20.2 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	~~250~~ 410	~~BJ~~ U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3´-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~260~~ 410	~~J~~ U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM057 S156

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-6 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50026.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	580	
100-52-7	Benzaldehyde	630	J
108-95-2	Phenol	560	U
111-44-4	Bis(2-chloroethyl)ether	560	U
95-57-8	2-Chlorophenol	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2´-oxybis(1-chloropropane)	560	U
98-86-2	Acetophenone	160	J
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	Bis(2-chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
91-20-3	Naphthalene	3700	
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
105-60-2	Caprolactam	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	860	
77-47-4	Hexachlorocyclopentadiene	560	UJ
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	560	U
92-52-4	1,1´-Biphenyl	560	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	560	U
131-11-3	Dimethylphthalate	560	U
606-20-2	2,6-Dinitrotoluene	560	U
208-96-8	Acenaphthylene	180	J
99-09-2	3-Nitroaniline	560	U
83-32-9	Acenaphthene	180	J
51-28-5	2,4-Dinitrophenol	560	U
100-02-7	4-Nitrophenol	560	U
132-64-9	Dibenzofuran	560	U

AECOM057 S157

1D

EPA SAMPLE NO.

SB-6 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50026.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
86-73-7	Fluorene	190	J
7005-72-3	4-Chlorophenyl-phenylether	560	U
100-01-6	4-Nitroaniline	560	U
534-52-1	4,6-Dinitro-2-methylphenol	560	U
86-30-6	N-Nitrosodiphenylamine	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
1912-24-9	Atrazine	560	U
87-86-5	Pentachlorophenol	560	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	380	J
86-74-8	Carbazole	560	U
84-74-2	Di-n-butyl phthalate	~~240~~ 560	~~BJ~~ U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	1800	
85-68-7	Butyl benzyl phthalate	560	U
91-94-1	3,3´-Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	960	
218-01-9	Chrysene	1100	
117-81-7	Bis(2-ethylhexyl)phthalate	~~400~~ 560	~~J~~ U
117-84-0	Di-n-octyl phthalate	560	U
205-99-2	Benzo(b)fluoranthene	320	J
207-08-9	Benzo(k)fluoranthene	600	
50-32-8	Benzo(a)pyrene	620	
193-39-5	Indeno(1,2,3-cd)pyrene	200	J
53-70-3	Dibenzo(a,h)anthracene	140	J
191-24-2	Benzo(g,h,i)perylene	190	J

(1) Cannot be separated from Diphenylamine

AECOM057 S158

1C

EPA SAMPLE NO.

SB-6 (26-28)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50027.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	UJ
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	86	J
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	270	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	UJ
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	390	U

AECOM057 S159

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-6 (26-28)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50027.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 16.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butyl phthalate	~~200~~ 390	~~BJ~~ U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~280~~ 390	~~J~~ U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) Cannot be separated from Diphenylamine

AECOM057 S160

1C

EPA SAMPLE NO.

SB-6 (30-32)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50028.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	380	UJ
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	110	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	UJ
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	380	U

AECOM057 S161

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-6 (30-32)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50028.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 14.1 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butyl phthalate	~~170~~ 380	~~BJ~~ U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~320~~ 380	~~J~~ U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) Cannot be separated from Diphenylamine

AECOM057 S162

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50488.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 20 f

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	390	U
100-52-7	Benzaldehyde	390	U J
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2´-oxybis(1-chloropropane)	390	U
98-86-2	Acetophenone	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	85	J
111-91-1	Bis(2-chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	30000 ~~34000~~	~~E~~
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	33000 ~~33000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	390	U J
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
92-52-4	1,1´-Biphenyl	5500	
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	19000 ~~18000~~	~~E~~
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	2100	
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	1500	

AECOM057 S163

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50488.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	14000 ~~13000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	50000 ~~45000~~	~~E~~
120-12-7	Anthracene	13000 ~~11000~~	~~E~~
86-74-8	Carbazole	260	J
84-74-2	Di-n-butyl phthalate	~~160~~ 390	~~BJ~~ U
206-44-0	Fluoranthene	16000 ~~15000~~	~~E~~
129-00-0	Pyrene	23000 ~~23000~~	~~E~~
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3´-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	9300 ~~10000~~	~~E~~
218-01-9	Chrysene	8500 ~~8500~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	~~230~~ 390	~~J~~ U
117-84-0	Di-n-octyl phthalate	390	U
205-99-2	Benzo(b)fluoranthene	4800	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	6900 ~~6800~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	940	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) Cannot be separated from Diphenylamine

AECOM057 S164

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50501.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7900	U
100-52-7	Benzaldehyde	7900	U
108-95-2	Phenol	7900	U
111-44-4	Bis(2-chloroethyl)ether	7900	U
95-57-8	2-Chlorophenol	7900	U
95-48-7	2-Methylphenol	7900	U
108-60-1	2,2´-oxybis(1-chloropropane)	7900	U
98-86-2	Acetophenone	7900	U
621-64-7	N-Nitroso-di-n-propylamine	7900	U
67-72-1	Hexachloroethane	7900	U
98-95-3	Nitrobenzene	7900	U
78-59-1	Isophorone	7900	U
88-75-5	2-Nitrophenol	7900	U
105-67-9	2,4-Dimethylphenol	7900	U
111-91-1	Bis(2-chloroethoxy)methane	7900	U
120-83-2	2,4-Dichlorophenol	7900	U
91-20-3	Naphthalene	36000	D
106-47-8	4-Chloroaniline	7900	U
87-68-3	Hexachlorobutadiene	7900	U
105-60-2	Caprolactam	7900	U
59-50-7	4-Chloro-3-methylphenol	7900	U
91-57-6	2-Methylnaphthalene	33000	D
77-47-4	Hexachlorocyclopentadiene	7900	U
88-06-2	2,4,6-Trichlorophenol	7900	U
95-95-4	2,4,5-Trichlorophenol	7900	U
92-52-4	1,1´-Biphenyl	7900	U
91-58-7	2-Chloronaphthalene	7900	U
88-74-4	2-Nitroaniline	7900	U
131-11-3	Dimethylphthalate	7900	U
606-20-2	2,6-Dinitrotoluene	7900	U
208-96-8	Acenaphthylene	19000	D
99-09-2	3-Nitroaniline	7900	U
83-32-9	Acenaphthene	2300	DJ
51-28-5	2,4-Dinitrophenol	7900	U
100-02-7	4-Nitrophenol	7900	U
132-64-9	Dibenzofuran	7900	U

AECOM057 S165

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-12B (40-42)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50501.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7900	U
84-66-2	Diethylphthalate	7900	U
86-73-7	Fluorene	14000	D
7005-72-3	4-Chlorophenyl-phenylether	7900	U
100-01-6	4-Nitroaniline	7900	U
534-52-1	4,6-Dinitro-2-methylphenol	7900	U
86-30-6	N-Nitrosodiphenylamine	7900	U
101-55-3	4-Bromophenyl-phenylether	7900	U
118-74-1	Hexachlorobenzene	7900	U
1912-24-9	Atrazine	7900	U
87-86-5	Pentachlorophenol	7900	U
85-01-8	Phenanthrene	50000	D
120-12-7	Anthracene	13000	D
86-74-8	Carbazole	7900	U
84-74-2	Di-n-butyl phthalate	7900	U
206-44-0	Fluoranthene	16000	D
129-00-0	Pyrene	23000	D
85-68-7	Butyl benzyl phthalate	7900	U
91-94-1	3,3´-Dichlorobenzidine	7900	U
56-55-3	Benzo(a)anthracene	9300	D
218-01-9	Chrysene	8800	D
117-81-7	Bis(2-ethylhexyl)phthalate	7900	U
117-84-0	Di-n-octyl phthalate	7900	U
205-99-2	Benzo(b)fluoranthene	3800	DJ
207-08-9	Benzo(k)fluoranthene	3400	DJ
50-32-8	Benzo(a)pyrene	6900	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	2100	DJ
53-70-3	Dibenzo(a,h)anthracene	7900	U
191-24-2	Benzo(g,h,i)perylene	2200	DJ

(1) Cannot be separated from Diphenylamine

AECOM057 S166

1C

EPA SAMPLE NO.

SB-12B (48-50)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50485.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 21.8 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	U J
108-95-2	Phenol	420	U
111-44-4	Bis(2-chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U J
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	420	U

AECOM057 S167

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-12B (48-50)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0912042-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50485.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: 21.8 Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butyl phthalate	~~95~~ 420	~~BJ~~ U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butyl benzyl phthalate	420	U
91-94-1	3,3´-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	~~100~~ 420	~~J~~ U
117-84-0	Di-n-octyl phthalate	140	J
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be separated from Diphenylamine

AECOM057 S168

1C

EPA SAMPLE NO.

SB-6 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: 0911495-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\B24215.D

Level: (low/med) LOW Date Received: 10/22/09

% Moisture: 41.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/30/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) mg/Kg	Q
	Alkylate 6	11	U
	DCL 100	11	U
	DCL 45	11	U
	DF 100	11	U
	Fuel Oil 2	11	U
	Diala A	11	U
	Fuel Oil 4	11	U
	Fuel Oil 6	11	U
	Gasoline	11	U
	High Viscosity Polybutene	11	U
	HYVOLT I	11	U
	HYVOLT II	11	U
	JP4 (Aviation Fuel)	11	U
	Kerosene	11	U
	Low Viscosity Polybutene	11	U
	Motor Oil	11	U
	Petroleum Base Transformer Oil	11	U
	DiChevrol Fluid 100 Cable Oil	11	U
	Sun 4 Cable Oil	11	U
	DiChevrol Fluid 500 Cable Oil	11	U
	Sun 6 Cable Oil	11	U
	Diesel Fuel Oil	11	U
	Total Petroleum Hydrocarbons	1000	X
	Silicone Base Transformer Oil	11	U
	Univolt 60 Transformer Oil	11	U

~~XT~~ Cannot be separated from Diphenylamine

CP 11.23.09

X = no match with targeted substances. Elutes slightly earlier than Sun 6 cable oil.

AECOM057 D16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-4 (36'-38')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-001

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3130			P
7440-36-0	Antimony	0.55	B	J N	P
7440-38-2	Arsenic	0.79	B	J	P
7440-39-3	Barium	24.9			P
7440-41-7	Beryllium	0.25	B	J	P
7440-43-9	Cadmium	0.16	B	J	P
7440-70-2	Calcium	5390			P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	4.0	B	J	P
7440-50-8	Copper	5.8			P
7439-89-6	Iron	10000			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	4470			P
7439-96-5	Manganese	154			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	892			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	578	B	J	P
7440-28-0	Thallium	0.73	B	J	P
7440-62-2	Vanadium	12.7			P
7440-66-6	Zinc	18.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-4 (44'-46')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-002

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10900			P
7440-36-0	Antimony	1.2	B	J N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	136			P
7440-41-7	Beryllium	0.60	B	J	P
7440-43-9	Cadmium	0.24	B	J	P
7440-70-2	Calcium	11300			P
7440-47-3	Chromium	27.9			P
7440-48-4	Cobalt	12.0			P
7440-50-8	Copper	24.9			P
7439-89-6	Iron	24000			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	10300			P
7439-96-5	Manganese	476			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	24.8			P
7440-09-7	Potassium	3910			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	1720			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	36.5			P
7440-66-6	Zinc	57.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-1 (12')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911045-003

Level (low/med): LOW Date Received: 10/9/2009

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6240			P
7440-36-0	Antimony	2.6	B	J N	P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	316		J	P
7440-41-7	Beryllium	0.42	B	J	P
7440-43-9	Cadmium	0.46	B	J	P
7440-70-2	Calcium	6970			P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	5.5	B	J	P
7440-50-8	Copper	57.0			P
	~~Free Cyanid~~	~~0~~	~~B~~	N	CA
7439-89-6	Iron	12300			P
7439-92-1	Lead	195			P
7439-95-4	Magnesium	2530			P
7439-96-5	Manganese	147			P
7439-97-6	Mercury	0.46		J	CV
7440-02-0	Nickel	13.3			P
7440-09-7	Potassium	992			P
7782-49-2	Selenium	0.33	B	J	P
7440-22-4	Silver	0.21	B	J	P
7440-23-5	Sodium	132	B	J	P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	21.8			P
7440-66-6	Zinc	282		J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (14-16)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-001

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7380			P
7440-36-0	Antimony	0.70	B	J N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	38.3			P
7440-41-7	Beryllium	0.44	B	J	P
7440-43-9	Cadmium	0.13	B	J	P
7440-70-2	Calcium	1250			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	14.4			P
7439-89-6	Iron	18300			P
7439-92-1	Lead	34.4			P
7439-95-4	Magnesium	1680			P
7439-96-5	Manganese	298			P
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel	9.8			P
7440-09-7	Potassium	765			P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.098	U		P
7440-23-5	Sodium	298	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	26.2			P
7440-66-6	Zinc	33.1			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (37-38)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-002

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 83.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3700			P
7440-36-0	Antimony	0.45	B	J N	P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	24.9			P
7440-41-7	Beryllium	0.24	B	J	P
7440-43-9	Cadmium	0.66			P
7440-70-2	Calcium	4840			P
7440-47-3	Chromium	12.2			P
7440-48-4	Cobalt	4.4	B	J	P
7440-50-8	Copper	12.2			P
7439-89-6	Iron	11600			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	4540			P
7439-96-5	Manganese	123			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	8.7			P
7440-09-7	Potassium	1260			P
7782-49-2	Selenium	0.75		J	P
7440-22-4	Silver	0.10	B	J	P
7440-23-5	Sodium	219	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	18.7			P
7440-66-6	Zinc	24.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-2B (42-44)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911284-003

Level (low/med): LOW Date Received: 10/16/2009

% Solids: 74.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18200			P
7440-36-0	Antimony	1.6	B	J N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	182			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	0.37	B	J	P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	44.7			P
7440-48-4	Cobalt	17.7			P
7440-50-8	Copper	34.0			P
7439-89-6	Iron	35700			P
7439-92-1	Lead	11.2			P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	593			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	37.7			P
7440-09-7	Potassium	6830			P
7782-49-2	Selenium	0.33	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	1940			P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	54.2			P
7440-66-6	Zinc	84.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1 (5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-001

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6500			P
7440-36-0	Antimony	2.9	B	J N	P
7440-38-2	Arsenic	11.9			P
7440-39-3	Barium	73.1			P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.89			P
7440-70-2	Calcium	5590			P
7440-47-3	Chromium	22.8			P
7440-48-4	Cobalt	9.3			P
7440-50-8	Copper	131			P
7439-89-6	Iron	28500			P
7439-92-1	Lead	75.3			P
7439-95-4	Magnesium	3400			P
7439-96-5	Manganese	351			P
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	43.8			P
7440-09-7	Potassium	925			P
7782-49-2	Selenium	0.57	B	J	P
7440-22-4	Silver	0.30	B	J	P
7440-23-5	Sodium	296	B	J	P
7440-28-0	Thallium	0.93	B	J	P
7440-62-2	Vanadium	28.0			P
7440-66-6	Zinc	402			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (20-22)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-002

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 35.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			P
7440-36-0	Antimony	0.60	U	J N	P
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium	35.3	B	J	P
7440-41-7	Beryllium	0.51	B	J	P
7440-43-9	Cadmium	0.28	B	J	P
7440-70-2	Calcium	4590			P
7440-47-3	Chromium	23.6			P
7440-48-4	Cobalt	6.5	B	J	P
7440-50-8	Copper	8.1			P
7439-89-6	Iron	14200			P
7439-92-1	Lead	14.0			P
7439-95-4	Magnesium	4160			P
7439-96-5	Manganese	146			P
7439-97-6	Mercury	0.047	U		CV
7440-02-0	Nickel	15.4			P
7440-09-7	Potassium	2440			P
7782-49-2	Selenium	1.2	B	J	P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	3430			P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	42.4			P
7440-66-6	Zinc	33.4			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (38-40)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-003

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1880			P
7440-36-0	Antimony	0.25	~~B~~	J N	P
7440-38-2	Arsenic	1.0	~~B~~	J	P
7440-39-3	Barium	13.7	~~B~~	J	P
7440-41-7	Beryllium	0.14	~~B~~	J	P
7440-43-9	Cadmium	0.049	~~B~~	J	P
7440-70-2	Calcium	708			P
7440-47-3	Chromium	6.7			P
7440-48-4	Cobalt	2.2	~~B~~	J	P
7440-50-8	Copper	3.9			P
7439-89-6	Iron	5540			P
7439-92-1	Lead	1.7			P
7439-95-4	Magnesium	1020			P
7439-96-5	Manganese	56.4			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	4.6	~~B~~	J	P
7440-09-7	Potassium	403	~~B~~	J	P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium	286	~~B~~	J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	11.4			P
7440-66-6	Zinc	12.9			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-14B (54-56)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-004

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4980			P
7440-36-0	Antimony	0.82	B	J N	P
7440-38-2	Arsenic	1.1	B	J	P
7440-39-3	Barium	32.1			P
7440-41-7	Beryllium	0.31	B	J	P
7440-43-9	Cadmium	0.089	B	J	P
7440-70-2	Calcium	2900			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	5.5	B	J	P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	22500			P
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium	2720			P
7439-96-5	Manganese	266			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	881			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.10	B	J	P
7440-23-5	Sodium	165	B	J	P
7440-28-0	Thallium	0.78	B	J	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	21.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-16B (30-32)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-005

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3860			P
7440-36-0	Antimony	0.54	B	J N	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	21.7	B	J	P
7440-41-7	Beryllium	0.24	B	J	P
7440-43-9	Cadmium	0.12	B	J	P
7440-70-2	Calcium	4920			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	4.8	B	J	P
7440-50-8	Copper	8.6			P
7439-89-6	Iron	11000			P
7439-92-1	Lead	3.0			P
7439-95-4	Magnesium	4580			P
7439-96-5	Manganese	191			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	1300			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	223	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	27.0			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-16B (44-46)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911468-006

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900			P
7440-36-0	Antimony	1.5	B	J N	P
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	155			P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.37	B	J	P
7440-70-2	Calcium	12200			P
7440-47-3	Chromium	37.9			P
7440-48-4	Cobalt	15.1			P
7440-50-8	Copper	28.6			P
7439-89-6	Iron	30400			P
7439-92-1	Lead	9.4			P
7439-95-4	Magnesium	12900			P
7439-96-5	Manganese	519			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	31.6			P
7440-09-7	Potassium	5680			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	1780			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	46.8			P
7440-66-6	Zinc	71.3			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M16

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (16-18)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-001

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 58.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4120			P
7440-36-0	Antimony	4.1	B	J N	P
7440-38-2	Arsenic	14.9			P
7440-39-3	Barium	963			P
7440-41-7	Beryllium	0.39	B	J	P
7440-43-9	Cadmium	0.058	U		P
7440-70-2	Calcium	31200			P
7440-47-3	Chromium	54.9			P
7440-48-4	Cobalt	6.4	B	J	P
7440-50-8	Copper	78.4			P
7439-89-6	Iron	79700			P
7439-92-1	Lead	1120			P
7439-95-4	Magnesium	2020			P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	4.9			CV
7440-02-0	Nickel	12.9			P
7440-09-7	Potassium	800	B	J	P
7782-49-2	Selenium	2.1		J	P
7440-22-4	Silver	0.80	B	J	P
7440-23-5	Sodium	2030			P
7440-28-0	Thallium	4.9			P
7440-62-2	Vanadium	18.6			P
7440-66-6	Zinc	582			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M17

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (26-28)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-002

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2600			P
7440-36-0	Antimony	0.42	B	J N	P
7440-38-2	Arsenic	0.30	B	J	P
7440-39-3	Barium	14.8	B	J	P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.050	B	J	P
7440-70-2	Calcium	620			P
7440-47-3	Chromium	7.5			P
7440-48-4	Cobalt	2.3	B	J	P
7440-50-8	Copper	5.1			P
7439-89-6	Iron	4740			P
7439-92-1	Lead	2.6			P
7439-95-4	Magnesium	1160			P
7439-96-5	Manganese	60.7			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	4.3	B	J	P
7440-09-7	Potassium	446	B	J	P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	564	B	J	P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	9.2			P
7440-66-6	Zinc	13.5			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M18

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-6 (30-32)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0911495-003

Level (low/med): LOW Date Received: 10/22/2009

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4690			P
7440-36-0	Antimony	0.98	B	J N	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	37.3			P
7440-41-7	Beryllium	0.32	B	J	P
7440-43-9	Cadmium	0.15	B	J	P
7440-70-2	Calcium	829			P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	6.2			P
7440-50-8	Copper	10.5			P
7439-89-6	Iron	27300			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	2250			P
7439-96-5	Manganese	205			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	11.4			P
7440-09-7	Potassium	752			P
7782-49-2	Selenium	0.29	U		P
7440-22-4	Silver	0.096	U		P
7440-23-5	Sodium	407	B	J	P
7440-28-0	Thallium	1.0	B	J	P
7440-62-2	Vanadium	20.4			P
7440-66-6	Zinc	21.3			P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M19

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12B (40-42)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0912042-001

Level (low/med): LOW Date Received: 11/4/2009

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7240			P
7440-36-0	Antimony	0.84	B	J N	P
7440-38-2	Arsenic	0.62	B	J	P
7440-39-3	Barium	60.1			P
7440-41-7	Beryllium	0.41	B	J	P
7440-43-9	Cadmium	0.26	B	J	P
7440-70-2	Calcium	9190			P
7440-47-3	Chromium	18.5			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	15.9			P
7439-89-6	Iron	20400			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	8100			P
7439-96-5	Manganese	476			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	16.8			P
7440-09-7	Potassium	2570			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.099	U		P
7440-23-5	Sodium	980			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	26.4			P
7440-66-6	Zinc	41.5			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M20

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-12B (48-50)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Lab Sample ID: 0912042-002

Level (low/med): LOW Date Received: 11/4/2009

% Solids: 78.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8720			P
7440-36-0	Antimony	0.86	B	J N	P
7440-38-2	Arsenic	1.7			P
7440-39-3	Barium	94.3			P
7440-41-7	Beryllium	0.47	B	J	P
7440-43-9	Cadmium	0.29	B	J	P
7440-70-2	Calcium	11600			P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	20.0			P
7439-89-6	Iron	20700			P
7439-92-1	Lead	6.4			P
7439-95-4	Magnesium	9170			P
7439-96-5	Manganese	366			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	19.4			P
7440-09-7	Potassium	3200			P
7782-49-2	Selenium	0.32	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	1580			P
7440-28-0	Thallium	0.41	U		P
7440-62-2	Vanadium	32.4			P
7440-66-6	Zinc	47.7			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/16/2009

AECOM057 M21

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911045-001
ClientSample ID. : SB-4 (36'-38')

Sample Information...
Type : Soil

Origin:

Collected : 10/7/2009 4:00:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99 057
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:17 AM
Percent Moisture	18.1		1	wt%	D2216	10/12/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S190

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911045-002**
ClientSample ID. : SB-4 (44'-46')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 10:00:00 AM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62	U J	1	mg/Kg-dry	SW9014	10/20/2009 11:18 AM
Percent Moisture	19.4		1	wt%	D2216	10/12/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S191

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911045-003**
ClientSample ID. : TP-1 (12')

Sample Information...
Type : Soil

Origin:

Collected : 10/8/2009 1:20:00 PM
Received : 10/9/2009 3:15:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	10/16/2009 6:15 PM
Percent Moisture	20.5		1	wt%	D2216	10/12/2009 8:44 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S192

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911284-001
ClientSample ID. : SB-2B (14-16)

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 12:00:00 PM
Received : 10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.59	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:19 AM
Percent Moisture	15.2		1	wt%	D2216	10/19/2009 12:01 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S193

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911284-002

ClientSample ID. : SB-2B (37-38)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :10/14/2009 4:00:00 PM
Received :10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60	U	1	mg/Kg-dry	SW9014	10/20/2009 11:22 AM
Percent Moisture	16.4		1	wt%	D2216	10/19/2009 12:02 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S194

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911284-003
ClientSample ID. : SB-2B (42-44)

Sample Information...
Type : Soil

Origin:

Collected : 10/14/2009 4:30:00 PM
Received : 10/16/2009 3:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.67	UJ	1	mg/Kg-dry	SW9014	10/20/2009 11:23 AM
Percent Moisture	25.6		1	wt%	D2216	10/19/2009 12:03 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S195

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-001

ClientSample ID. : SB-1 (5)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 10/20/2009 10:45:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:13 PM
Percent Moisture	13.3		1	wt%	D2216	10/23/2009 8:39 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S196

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-002

ClientSample ID. : SB-14B (20-22)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 10:00:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 1.40	UJ	1	mg/Kg-dry	SW9014	11/03/2009 12:16 PM
Percent Moisture	64.3		1	wt%	D2216	10/23/2009 8:40 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S197

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911468-003**
ClientSample ID. : **SB-14B (38-40)**

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 11:30:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:17 PM
Percent Moisture	13.1		1	wt%	D2216	10/23/2009 8:41 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S198

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911468-004
ClientSample ID. : SB-14B (54-56)

Sample Information...
Type : Soil

Origin:

Collected : 10/17/2009 2:00:00 PM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	11/03/2009 12:18 PM
Percent Moisture	11.1		1	wt%	D2216	10/23/2009 8:42 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S199

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911468-005**
ClientSample ID. : **SB-16B (30-32)**

Sample Information...
Type : Soil

Origin:

Collected : 10/19/2009 2:00:00 PM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/03/2009 12:19 PM
Percent Moisture	16.5		1	wt%	D2216	10/23/2009 8:43 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S200

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911468-006

ClientSample ID. : SB-16B (44-46)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :10/19/2009 2:00:00 PM
Received :10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	11/03/2009 12:22 PM
Percent Moisture	20.2		1	wt%	D2216	10/23/2009 8:44 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S201

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911495-001**
ClientSample ID. : SB-6 (16-18)

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 10:30:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.86		1	mg/Kg-dry	SW9014	11/03/2009 12:27 PM
Percent Moisture	41.5		1	wt%	D2216	10/27/2009 9:30 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S202

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0911495-002

ClientSample ID. : SB-6 (26-28)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 11:06:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/03/2009 12:26 PM
Percent Moisture	16.3		1	wt%	D2216	10/27/2009 9:31 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S203

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911495-003**
ClientSample ID. : **SB-6 (30-32)**

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 11:26:00 AM
Received : 10/22/2009 4:40:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/03/2009 12:28 PM
Percent Moisture	14.1		1	wt%	D2216	10/27/2009 9:32 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S204

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912042-001

ClientSample ID. : SB-12B (40-42)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :11/3/2009 9:30:00 AM
Received :11/4/2009 4:25:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.60		1	mg/Kg-dry	SW9014	11/10/2009 4:43 PM
Percent Moisture	16.0		1	wt%	D2216	11/09/2009 1:57 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S205

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912042-002

ClientSample ID. : SB-12B (48-50)

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected :11/3/2009 11:15:00 AM
Received :11/4/2009 4:25:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.64		1	mg/Kg-dry	SW9014	11/10/2009 4:44 PM
Percent Moisture	21.8		1	wt%	D2216	11/09/2009 1:58 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM057 S206

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3679.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	56	U
75-71-8	Dichlorodifluoromethane	56	U
74-83-9	Bromomethane	56	U
75-01-4	Vinyl chloride	56	U
75-00-3	Chloroethane	56	U
75-09-2	Methylene chloride	130	~~E~~ U
67-64-1	Acetone	~~58~~ 280	~~BJ~~ U
75-69-4	Trichlorofluoromethane	56	U
75-35-4	1,1-Dichloroethene	56	U
75-15-0	Carbon disulfide	17	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	56	U
75-34-3	1,1-Dichloroethane	56	U
67-66-3	Chloroform	56	U
107-06-2	1,2-Dichloroethane	56	U
79-20-9	Methyl Acetate	56	U
78-93-3	2-Butanone	280	U
71-55-6	1,1,1-Trichloroethane	56	U
156-60-5	trans-1,2-Dichloroethene	56	U
56-23-5	Carbon tetrachloride	56	U
1634-04-4	Methyl tert-butyl ether	56	U
75-27-4	Bromodichloromethane	56	U
78-87-5	1,2-Dichloropropane	56	U
156-59-2	cis-1,2-Dichloroethene	11	J
10061-01-5	cis-1,3-Dichloropropene	56	U
79-01-6	Trichloroethene	56	U
124-48-1	Dibromochloromethane	56	U
79-00-5	1,1,2-Trichloroethane	56	U
71-43-2	Benzene	56	U
110-82-7	Cyclohexane	~~59000~~	~~E~~
10061-02-6	trans-1,3-Dichloropropene	370	
75-25-2	Bromoform	56	U
108-10-1	4-Methyl-2-pentanone	56	U
591-78-6	2-Hexanone	280	U
127-18-4	Tetrachloroethene	280	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
		56	U

J

report as J

AECOM058V41

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3679.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1100	J
108-88-3	Toluene	64000	E
108-90-7	Chlorobenzene	56	U
100-41-4	Ethylbenzene	38000	E
100-42-5	Styrene	7200	E
108-38-3/106-42-3	m,p-Xylene	32000	E
95-47-6	o-Xylene	18000	E
106-93-4	1,2-Dibromoethane	56	U
98-82-8	Isopropylbenzene	2300	E
541-73-1	1,3-Dichlorobenzene	56	U
106-46-7	1,4-Dichlorobenzene	56	U
95-50-1	1,2-Dichlorobenzene	56	U
96-12-8	1,2-Dibromo-3-chloropropane	56	U
120-82-1	1,2,4-Trichlorobenzene	56	U

report DL

report DL

AECOM058 V42

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-3(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3679.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 9 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene (7.82)	7.82	19000	J
2.		c3 substituted benzene (7.88)	7.88	9600	J
3.		c3 substituted benzene (8)	8.00	13000	J
4.		c3 substituted benzene (8.08)	8.08	15000	J
5.		c3 substituted benzene (8.14)	8.14	8500	J
6.		c3 substituted benzene (8.31)	8.31	9400	J
7.		c3 substituted benzene (8.41)	8.41	13000	J
8.		c4 substituted benzene	8.44	6500	J
9.		c3 substituted benzene (8.55)	8.55	27000	J

AECOM058 V43

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67011.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	35000	U
75-71-8	Dichlorodifluoromethane	35000	U
74-83-9	Bromomethane	35000	U
75-01-4	Vinyl chloride	35000	U
75-00-3	Chloroethane	35000	U
75-09-2	Methylene chloride	35000	U
67-64-1	Acetone	170000	U
75-69-4	Trichlorofluoromethane	35000	U
75-35-4	1,1-Dichloroethene	35000	U
75-15-0	Carbon disulfide	35000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	35000	U
75-34-3	1,1-Dichloroethane	35000	U
67-66-3	Chloroform	35000	U
107-06-2	1,2-Dichloroethane	35000	U
79-20-9	Methyl Acetate	35000	U
78-93-3	2-Butanone	170000	U
71-55-6	1,1,1-Trichloroethane	35000	U
156-60-5	trans-1,2-Dichloroethene	35000	U
56-23-5	Carbon tetrachloride	35000	U
1634-04-4	Methyl tert-butyl ether	35000	U
75-27-4	Bromodichloromethane	35000	U
78-87-5	1,2-Dichloropropane	35000	U
156-59-2	cis-1,2-Dichloroethene	35000	U
10061-01-5	cis-1,3-Dichloropropene	35000	U
79-01-6	Trichloroethene	35000	U
124-48-1	Dibromochloromethane	35000	U
79-00-5	1,1,2-Trichloroethane	35000	U
71-43-2	Benzene	650000	~~D~~
110-82-7	Cyclohexane	35000	U
10061-02-6	trans-1,3-Dichloropropene	35000	U
75-25-2	Bromoform	35000	U
108-10-1	4-Methyl-2-pentanone	170000	U
591-78-6	2-Hexanone	170000	U
127-18-4	Tetrachloroethene	35000	U
79-34-5	1,1,2,2-Tetrachloroethane	35000	U

DNR

report DNR

AECOM058 V65

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67011.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	35000	U
108-88-3	Toluene	960000	~~D~~
108-90-7	Chlorobenzene	35000	U
100-41-4	Ethylbenzene	740000	~~D~~
100-42-5	Styrene	81000	~~D~~
108-38-3/106-42-3	m,p-Xylene	680000	~~D~~
95-47-6	o-Xylene	300000	~~D~~
106-93-4	1,2-Dibromoethane	35000	U
98-82-8	Isopropylbenzene	35000	U
541-73-1	1,3-Dichlorobenzene	35000	U
106-46-7	1,4-Dichlorobenzene	35000	U
95-50-1	1,2-Dichlorobenzene	35000	U
96-12-8	1,2-Dibromo-3-chloropropane	35000	U
120-82-1	1,2,4-Trichlorobenzene	35000	U

DNR report DNR report DNR

DNR- do not report

AECOM058 V66

1F

EPA SAMPLE NO.

SB-3(36-38)DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67011.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 10.3 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (15.51)	15.51	450000	JD
2.	c3-subs_benzene (15.61)	15.61	490000	JD
3.	c3-subs_benzene (16.14)	16.14	260000	JD
4.	c3-subs_benzene (16.47)	16.47	210000	JD
5.	c3-subs_benzene (16.81)	16.81	2000000	JD
6.	c4-subs_benzene (18.54)	18.54	660000	JD
7.	c4-subs_benzene (18.74)	18.74	630000	JD
8. 000090-12-0	Naphthalene, 1-methyl-	22.25	560000	JND

DNR

DNR- do not report

AECOM058 V67

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3671.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 25.8 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U
75-71-8	Dichlorodifluoromethane	7	U
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	14	~~B~~ U J
67-64-1	Acetone	44	~~B~~ J
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U
78-93-3	2-Butanone	34	U
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	78	
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	34	U
591-78-6	2-Hexanone	34	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM058 V85

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3(46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3671.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 25.8 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	35	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	15	
100-42-5	Styrene	7	U
108-38-3/106-42-3	m,p-Xylene	13	
95-47-6	o-Xylene	7	
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM058 V86

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-3(46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3671.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not deo. 25.8 Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	2.68	22	J
2.	c3 substituted benzene (8.4)	8.40	12	J
3.	c3 substituted benzene (8.51)	8.51	25	J
4. 000090-12-0	Naphthalene, 1-methyl-	10.19	10	JN

AECOM058 V87

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3680.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	62	U
75-71-8	Dichlorodifluoromethane	62	U
74-83-9	Bromomethane	62	U
75-01-4	Vinyl chloride	62	U
75-00-3	Chloroethane	62	U
75-09-2	Methylene chloride	110	B U
67-64-1	Acetone	~~150~~ 310	B U
75-69-4	Trichlorofluoromethane	62	U
75-35-4	1,1-Dichloroethene	62	U
75-15-0	Carbon disulfide	53	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	62	U
75-34-3	1,1-Dichloroethane	62	U
67-66-3	Chloroform	62	U
107-06-2	1,2-Dichloroethane	62	U
79-20-9	Methyl Acetate	62	U
78-93-3	2-Butanone	310	U
71-55-6	1,1,1-Trichloroethane	62	U
156-60-5	trans-1,2-Dichloroethene	62	U
56-23-5	Carbon tetrachloride	62	U
1634-04-4	Methyl tert-butyl ether	62	U
75-27-4	Bromodichloromethane	62	U
78-87-5	1,2-Dichloropropane	62	U
156-59-2	cis-1,2-Dichloroethene	62	U
10061-01-5	cis-1,3-Dichloropropene	62	U
79-01-6	Trichloroethene	62	U
124-48-1	Dibromochloromethane	62	U
79-00-5	1,1,2-Trichloroethane	62	U
71-43-2	Benzene	75000	E
110-82-7	Cyclohexane	62	U
10061-02-6	trans-1,3-Dichloropropene	62	U
75-25-2	Bromoform	62	U
108-10-1	4-Methyl-2-pentanone	310	U
591-78-6	2-Hexanone	310	U
127-18-4	Tetrachloroethene	62	U
79-34-5	1,1,2,2-Tetrachloroethane	62	U

J

upstream

AECOM058 V102

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3680.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	68		
108-88-3	Toluene	70000	E	report
108-90-7	Chlorobenzene	62	U J	
100-41-4	Ethylbenzene	32000	E	report DL
100-42-5	Styrene	21000	E	↓
108-38-3/106-42-3	m,p-Xylene	35000	E	
95-47-6	o-Xylene	19000	E	
106-93-4	1,2-Dibromoethane	62	U J	
98-82-8	Isopropylbenzene	2700	E	report DL
541-73-1	1,3-Dichlorobenzene	62	U J	
106-46-7	1,4-Dichlorobenzene	62	U	
95-50-1	1,2-Dichlorobenzene	62	U	
96-12-8	1,2-Dibromo-3-chloropropane	62	U	
120-82-1	1,2,4-Trichlorobenzene	62	U	

AECOM058 V103

1F

EPA SAMPLE NO.

SB-8(24-26)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3680.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/24/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3 substituted benzene (7.83)	7.83	24000	J
2.	c3 substituted benzene (7.88)	7.88	13000	J
3.	c3 substituted benzene (8.01)	8.01	15000	J
4.	c3 substituted benzene (8.08)	8.08	21000	J
5.	c3 substituted benzene (8.14)	8.14	11000	J
6.	unknown	8.25	6600	J
7.	c3 substituted benzene (8.31)	8.31	12000	J
8.	c3 substituted benzene (8.41)	8.41	17000	J
9.	c3 substituted benzene (8.55)	8.55	36000	J

AECOM058 V104

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(24-26)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67012.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	39000	U
75-71-8	Dichlorodifluoromethane	39000	U
74-83-9	Bromomethane	39000	U
75-01-4	Vinyl chloride	39000	U
75-00-3	Chloroethane	39000	U
75-09-2	Methylene chloride	39000	U
67-64-1	Acetone	190000	U
75-69-4	Trichlorofluoromethane	39000	U
75-35-4	1,1-Dichloroethene	39000	U
75-15-0	Carbon disulfide	39000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	39000	U
75-34-3	1,1-Dichloroethane	39000	U
67-66-3	Chloroform	39000	U
107-06-2	1,2-Dichloroethane	39000	U
79-20-9	Methyl Acetate	39000	U
78-93-3	2-Butanone	190000	U
71-55-6	1,1,1-Trichloroethane	39000	U
156-60-5	trans-1,2-Dichloroethene	39000	U
56-23-5	Carbon tetrachloride	39000	U
1634-04-4	Methyl tert-butyl ether	39000	U
75-27-4	Bromodichloromethane	39000	U
78-87-5	1,2-Dichloropropane	39000	U
156-59-2	cis-1,2-Dichloroethene	39000	U
10061-01-5	cis-1,3-Dichloropropene	39000	U
79-01-6	Trichloroethene	39000	U
124-48-1	Dibromochloromethane	39000	U
79-00-5	1,1,2-Trichloroethane	39000	U
71-43-2	Benzene	680000	~~D~~
110-82-7	Cyclohexane	39000	U
10061-02-6	trans-1,3-Dichloropropene	39000	U
75-25-2	Bromoform	39000	U
108-10-1	4-Methyl-2-pentanone	190000	U
591-78-6	2-Hexanone	190000	U
127-18-4	Tetrachloroethene	39000	U
79-34-5	1,1,2,2-Tetrachloroethane	39000	U

DNR

report DNR

AECOM058 V125

DNR- do not report

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8(24-26)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67012.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	39000	U
108-88-3	Toluene	1300000	~~D~~
108-90-7	Chlorobenzene	39000	U
100-41-4	Ethylbenzene	610000	~~D~~
100-42-5	Styrene	880000	~~D~~
108-38-3/106-42-3	m,p-Xylene	1100000	~~D~~
95-47-6	o-Xylene	500000	~~D~~
106-93-4	1,2-Dibromoethane	39000	U
98-82-8	Isopropylbenzene	25000	DJ
541-73-1	1,3-Dichlorobenzene	39000	U
106-46-7	1,4-Dichlorobenzene	39000	U
95-50-1	1,2-Dichlorobenzene	39000	U
96-12-8	1,2-Dibromo-3-chloropropane	39000	U
120-82-1	1,2,4-Trichlorobenzene	39000	U

DNR report DNR report DNR. report DNR

DNR-do not report

AECOM058 V126

1F

EPA SAMPLE NO.

SB-8(24-26)DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67012.D

Level: (low/med) MED Date Received: 10/21/09

% Moisture: not dec. 19.8 Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (14.85)	14.85	590000	JD
2.		c3-subs_benzene (15.51)	15.51	910000	JD
3.		c3-subs_benzene (15.61)	15.61	1300000	JD
4.		c3-subs_benzene (16.47)	16.47	510000	JD
5.		c3-subs_benzene (16.81)	16.81	3900000	JD
6.		c4-subs_benzene (18.54)	18.54	1100000	JD
7.		c4-subs_benzene (18.74)	18.74	990000	JD
8.	000090-12-0	Naphthalene, 1-methyl-	22.25	690000	JND

DNR

DNR - do not report

AECOM058 V127

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911469-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66990.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V146

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911469-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66990.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM058 V147

1F

EPA SAMPLE NO.

TB102109

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911469-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66990.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 V148

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3736.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	31	U J
75-71-8	Dichlorodifluoromethane	31	U J
74-83-9	Bromomethane	31	U
75-01-4	Vinyl chloride	31	U J
75-00-3	Chloroethane	31	U
75-09-2	Methylene chloride	66	B U J
67-64-1	Acetone	290	J
75-69-4	Trichlorofluoromethane	31	U J
75-35-4	1,1-Dichloroethene	31	U
75-15-0	Carbon disulfide	20	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	31	U
75-34-3	1,1-Dichloroethane	31	U
67-66-3	Chloroform	31	U
107-06-2	1,2-Dichloroethane	31	U
79-20-9	Methyl Acetate	31	U
78-93-3	2-Butanone	63	J
71-55-6	1,1,1-Trichloroethane	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
56-23-5	Carbon tetrachloride	31	U
1634-04-4	Methyl tert-butyl ether	31	U
75-27-4	Bromodichloromethane	31	U
78-87-5	1,2-Dichloropropane	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-01-6	Trichloroethene	31	U
124-48-1	Dibromochloromethane	31	U
79-00-5	1,1,2-Trichloroethane	31	U
71-43-2	Benzene	730	J
110-82-7	Cyclohexane	360	J
10061-02-6	trans-1,3-Dichloropropene	31	U
75-25-2	Bromoform	31	U
108-10-1	4-Methyl-2-pentanone	160	U
591-78-6	2-Hexanone	160	U
127-18-4	Tetrachloroethene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U

AECOM058 V153

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3736.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	1100	J
108-88-3	Toluene	63	J
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	5500	E
100-42-5	Styrene	31	U
108-38-3/106-42-3	m,p-Xylene	1500	J
95-47-6	o-Xylene	1700	E
106-93-4	1,2-Dibromoethane	31	U
98-82-8	Isopropylbenzene	2000	E
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

AECOM058 V154

1F

EPA SAMPLE NO.

SB-17(16-18)

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3736.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	(DEL) Alkane: Cyclic	5.67	1700	J
2.	c3 substituted benzene (7.82)	7.82	1500	J
3.	c3 substituted benzene (7.98)	7.98	1400	J
4.	c3 substituted benzene (8.08)	8.08	1700	J
5.	c3 substituted benzene (8.29)	8.29	1300	J
6.	c3 substituted benzene (8.4)	8.40	4800	J
7.	c4 substituted benzene (8.66)	8.66	1300	J
8.	c4 substituted benzene (9.06)	9.06	1600	J
9.	c4 substituted benzene (9.12)	9.12	2000	J

AECOM058 V155

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(16-18)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67119.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	780	U
75-71-8	Dichlorodifluoromethane	780	U
74-83-9	Bromomethane	780	U
75-01-4	Vinyl chloride	780	U
75-00-3	Chloroethane	780	U
75-09-2	Methylene chloride	230	DJ
67-64-1	Acetone	3900	U
75-69-4	Trichlorofluoromethane	780	U
75-35-4	1,1-Dichloroethene	780	U
75-15-0	Carbon disulfide	780	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	780	U
75-34-3	1,1-Dichloroethane	780	U
67-66-3	Chloroform	780	U
107-06-2	1,2-Dichloroethane	780	U
79-20-9	Methyl Acetate	780	U
78-93-3	2-Butanone	510	DBJ
71-55-6	1,1,1-Trichloroethane	780	U
156-60-5	trans-1,2-Dichloroethene	780	U
56-23-5	Carbon tetrachloride	780	U
1634-04-4	Methyl tert-butyl ether	780	U
75-27-4	Bromodichloromethane	780	U
78-87-5	1,2-Dichloropropane	780	U
156-59-2	cis-1,2-Dichloroethene	780	U
10061-01-5	cis-1,3-Dichloropropene	780	U
79-01-6	Trichloroethene	780	U
124-48-1	Dibromochloromethane	780	U
79-00-5	1,1,2-Trichloroethane	780	U
71-43-2	Benzene	730	DJ
110-82-7	Cyclohexane	780	U
10061-02-6	trans-1,3-Dichloropropene	780	U
75-25-2	Bromoform	780	U
108-10-1	4-Methyl-2-pentanone	3900	U
591-78-6	2-Hexanone	3900	U
127-18-4	Tetrachloroethene	780	U
79-34-5	1,1,2,2-Tetrachloroethane	780	U

DNR

DNR- do not report

AECOM058 V177

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(16-18)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67119.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	2900	D
108-88-3	Toluene	780	U
108-90-7	Chlorobenzene	780	U
100-41-4	Ethylbenzene	18000	D
100-42-5	Styrene	780	U
108-38-3/106-42-3	m,p-Xylene	6700	D
95-47-6	o-Xylene	5700	D
106-93-4	1,2-Dibromoethane	780	U
98-82-8	Isopropylbenzene	6800	D
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
95-50-1	1,2-Dichlorobenzene	780	U
96-12-8	1,2-Dibromo-3-chloropropane	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U

DNR report DNR report DNR report DNR

DNR- do not report

AECOM058 V178

1F

EPA SAMPLE NO.

SB-17(16-18)DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67119.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 19.4 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (14.88)	14.88	26000	JD
2.	c3-subs_benzene (15.5)	15.50	35000	JD
3.	c3-subs_benzene (16.13)	16.13	21000	JD
4.	c3-subs_benzene (16.48)	16.48	67000	JD
5.	c4-subs_benzene (17.26)	17.26	21000	JD
6.	c4-subs_benzene (18.16)	18.16	21000	JD
7.	c4-subs_benzene (18.55)	18.55	28000	JD
8.	c4-subs_benzene (18.74)	18.74	38000	JD
9. 000090-12-0	Naphthalene, 1-methyl-	22.25	21000	JND

DNR

DNR - do not report

AECOM058 V179

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3734.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	29	U J
75-71-8	Dichlorodifluoromethane	29	U J
74-83-9	Bromomethane	29	U
75-01-4	Vinyl chloride	29	U J
75-00-3	Chloroethane	29	U
75-09-2	Methylene chloride	61	B U J
67-64-1	Acetone	61	J
75-69-4	Trichlorofluoromethane	29	U J
75-35-4	1,1-Dichloroethene	29	U
75-15-0	Carbon disulfide	29	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
75-34-3	1,1-Dichloroethane	29	U
67-66-3	Chloroform	29	U
107-06-2	1,2-Dichloroethane	29	U
79-20-9	Methyl Acetate	29	U
78-93-3	2-Butanone	140	U
71-55-6	1,1,1-Trichloroethane	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
56-23-5	Carbon tetrachloride	29	U
1634-04-4	Methyl tert-butyl ether	29	U
75-27-4	Bromodichloromethane	29	U
78-87-5	1,2-Dichloropropane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
79-01-6	Trichloroethene	29	U
124-48-1	Dibromochloromethane	29	U
79-00-5	1,1,2-Trichloroethane	29	U
71-43-2	Benzene	860	
110-82-7	Cyclohexane	29	U
10061-02-6	trans-1,3-Dichloropropene	29	U
75-25-2	Bromoform	29	U
108-10-1	4-Methyl-2-pentanone	140	U
591-78-6	2-Hexanone	140	U
127-18-4	Tetrachloroethene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U

AECOM058 V199

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3734.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
108-87-2	Methylcyclohexane	34		
108-88-3	Toluene	43		
108-90-7	Chlorobenzene	29	U	
100-41-4	Ethylbenzene	8700	E	report DL
100-42-5	Styrene	29	U	
108-38-3/106-42-3	m,p-Xylene	7700	E	report DL
95-47-6	o-Xylene	5000	E	report DL
106-93-4	1,2-Dibromoethane	29	U	
98-82-8	Isopropylbenzene	1400	E	report DL
541-73-1	1,3-Dichlorobenzene	29	U	
106-46-7	1,4-Dichlorobenzene	29	U	
95-50-1	1,2-Dichlorobenzene	29	U	
96-12-8	1,2-Dibromo-3-chloropropane	29	U	
120-82-1	1,2,4-Trichlorobenzene	29	U	

AECOM058 V200

1F

EPA SAMPLE NO.

SB-17(36-38)

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3734.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 10/31/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 5.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene (7.83)	7.83	9100	J
2.		c3 substituted benzene (8.08)	8.08	5600	J
3.		c3 substituted benzene (8.3)	8.30	2400	J
4.		c3 substituted benzene (8.42)	8.42	15000	J
5.		c4 substituted benzene (8.61)	8.61	2600	J
6.		c4 substituted benzene (8.96)	8.96	4700	J
7.		c4 substituted benzene (9.03)	9.03	2500	J
8.		c4 substituted benzene (9.09)	9.09	5000	J
9.		c4 substituted benzene (9.14)	9.14	6500	J

AECOM058 V201

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67120.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	710	U
75-71-8	Dichlorodifluoromethane	710	U
74-83-9	Bromomethane	710	U
75-01-4	Vinyl chloride	710	U
75-00-3	Chloroethane	710	U
75-09-2	Methylene chloride	710	U
67-64-1	Acetone	3600	U
75-69-4	Trichlorofluoromethane	710	U
75-35-4	1,1-Dichloroethene	710	U
75-15-0	Carbon disulfide	710	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	710	U
75-34-3	1,1-Dichloroethane	710	U
67-66-3	Chloroform	710	U
107-06-2	1,2-Dichloroethane	710	U
79-20-9	Methyl Acetate	710	U
78-93-3	2-Butanone	560	DBJ
71-55-6	1,1,1-Trichloroethane	710	U
156-60-5	trans-1,2-Dichloroethene	710	U
56-23-5	Carbon tetrachloride	710	U
1634-04-4	Methyl tert-butyl ether	710	U
75-27-4	Bromodichloromethane	710	U
78-87-5	1,2-Dichloropropane	710	U
156-59-2	cis-1,2-Dichloroethene	710	U
10061-01-5	cis-1,3-Dichloropropene	710	U
79-01-6	Trichloroethene	710	U
124-48-1	Dibromochloromethane	710	U
79-00-5	1,1,2-Trichloroethane	710	U
71-43-2	Benzene	710	U
110-82-7	Cyclohexane	710	U
10061-02-6	trans-1,3-Dichloropropene	710	U
75-25-2	Bromoform	710	U
108-10-1	4-Methyl-2-pentanone	3600	U
591-78-6	2-Hexanone	3600	U
127-18-4	Tetrachloroethene	710	U
79-34-5	1,1,2,2-Tetrachloroethane	710	U

DNR

DNR - do not report

AECOM058 V221

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67120.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	710	U
108-88-3	Toluene	710	U
108-90-7	Chlorobenzene	710	U
100-41-4	Ethylbenzene	4400	D
100-42-5	Styrene	710	U
108-38-3/106-42-3	m,p-Xylene	5500	D
95-47-6	o-Xylene	3600	D
106-93-4	1,2-Dibromoethane	710	U
98-82-8	Isopropylbenzene	1100	D
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
96-12-8	1,2-Dibromo-3-chloropropane	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U

DNR
↓
report DNR
report
↓
DNR
report DNR
↓

DNR - do not report

AECOM058 V222

1F

EPA SAMPLE NO.

SB-17(36-38)DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67120.D

Level: (low/med) MED Date Received: 10/26/09

% Moisture: not dec. 12.5 Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (14.85)	14.85	17000	JD
2.	c3-subs_benzene (15.51)	15.51	9300	JD
3.	c3-subs_benzene (16.14)	16.14	5900	JD
4.	c3-subs_benzene (16.47)	16.47	59000	JD
5.	c4-subs_benzene (18.16)	18.16	7600	JD
6.	c4-subs_benzene (18.55)	18.55	9800	JD
7.	c4-subs_benzene (18.74)	18.74	15000	JD
8. 000090-12-0	Naphthalene, 1-methyl-	22.26	27000	JND

DNR

DNR - do not report

AECOM058 V223

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3809.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 17.9 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	8	B U-J
67-64-1	Acetone	14	J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	30	U
591-78-6	2-Hexanone	30	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM058 V241

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17(40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3809.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. 17.9 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	12	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM058 V242

1F

EPA SAMPLE NO.

SB-17(40-42)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3809.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not deo. 17.9 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 V243

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911584-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67118.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V250

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB102209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911584-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67118.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM058 V251

1F

EPA SAMPLE NO.

TB102209

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0911584-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67118.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		unknown	3.37	11	BJ

AECOM058 V252

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3810.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not dec. 19 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	8	B U J
67-64-1	Acetone	12	J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	11	
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	31	U
591-78-6	2-Hexanone	31	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM058 V258

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3810.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not dec. 19 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	26	
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	5	J
95-47-6	o-Xylene	12	
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM058 V259

1F

EPA SAMPLE NO.

SB-7(36-40)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3810.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not deo. 19 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3 substituted benzene (8.07)	8.07	30	J
2.	c3 substituted benzene (8.4)	8.40	330	J
3.	unknown	8.58	20	J
4.	c4 substituted benzene (8.94)	8.94	24	J
5.	c4 substituted benzene (9.02)	9.02	27	J
6.	c4 substituted benzene (9.12)	9.12	27	J
7.	Benzothiophene isomer	9.45	18	J
8. 000090-12-0	Naphthalene, 1-methyl-	10.19	31	JN

AECOM058 V260

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB-7(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3811.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not dec. 20.7 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	6	U
75-71-8	Dichlorodifluoromethane	6	U
74-83-9	Bromomethane	6	U
75-01-4	Vinyl chloride	6	U
75-00-3	Chloroethane	6	U
75-09-2	Methylene chloride	7	BU J
67-64-1	Acetone	7	J
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
75-15-0	Carbon disulfide	6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6	U
75-34-3	1,1-Dichloroethane	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
79-20-9	Methyl Acetate	6	U
78-93-3	2-Butanone	2	J
71-55-6	1,1,1-Trichloroethane	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
56-23-5	Carbon tetrachloride	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	1	J
110-82-7	Cyclohexane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	32	U
591-78-6	2-Hexanone	32	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U

AECOM058 V279

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7(44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3811.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not dec. 20.7 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
108-38-3/106-42-3	m,p-Xylene	13	U
95-47-6	o-Xylene	6	U
106-93-4	1,2-Dibromoethane	6	U
98-82-8	Isopropylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U

AECOM058 V280

1F

EPA SAMPLE NO.

SB-7(44-46)

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3811.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: not deo. 20.7 Date Analyzed: 11/05/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 V281

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67270.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V289

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67270.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM058 V290

1F

EPA SAMPLE NO.

FB110409

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67270.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 V291

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67271.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V296

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67271.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM058 V297

1F

EPA SAMPLE NO.

TB110409

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67271.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 V298

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50033.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 2000 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	7400	U
100-52-7	Benzaldehyde	7400	U J
108-95-2	Phenol	7400	U
111-44-4	Bis(2-chloroethyl)ether	7400	U
95-57-8	2-Chlorophenol	7400	U
95-48-7	2-Methylphenol	7400	U
108-60-1	2,2'-oxybis(1-chloropropane)	7400	U
98-86-2	Acetophenone	7400	U
621-64-7	N-Nitroso-di-n-propylamine	7400	U
67-72-1	Hexachloroethane	7400	U
98-95-3	Nitrobenzene	7400	U J
78-59-1	Isophorone	7400	U J
88-75-5	2-Nitrophenol	7400	U J
105-67-9	2,4-Dimethylphenol	7400	U J
111-91-1	Bis(2-chloroethoxy)methane	7400	U J
120-83-2	2,4-Dichlorophenol	7400	U J
91-20-3	Naphthalene	7800000 ~~5500000~~	~~E~~ J
106-47-8	4-Chloroaniline	7400	U J
87-68-3	Hexachlorobutadiene	7400	U J
105-60-2	Caprolactam	7400	U J
59-50-7	4-Chloro-3-methylphenol	7400	U J
91-57-6	2-Methylnaphthalene	4300000 ~~4000000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	7400	U J
88-06-2	2,4,6-Trichlorophenol	7400	U
95-95-4	2,4,5-Trichlorophenol	7400	U
92-52-4	1,1'-Biphenyl	510000 ~~420000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	7400	U
88-74-4	2-Nitroaniline	7400	U
131-11-3	Dimethylphthalate	7400	U
606-20-2	2,6-Dinitrotoluene	7400	U
208-96-8	Acenaphthylene	1800000 ~~1000000~~	~~E~~ J
99-09-2	3-Nitroaniline	7400	U
83-32-9	Acenaphthene	340000 ~~280000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	7400	U
100-02-7	4-Nitrophenol	7400	U
132-64-9	Dibenzofuran	100000	J

AECOM058 S118

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50033.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	7400	U
84-66-2	Diethylphthalate	7400	U
86-73-7	Fluorene	1500000 ~~890000~~	~~E~~ J
7005-72-3	4-Chlorophenyl-phenylether	7400	U
100-01-6	4-Nitroaniline	7400	U
534-52-1	4,6-Dinitro-2-methylphenol	7400	U J
86-30-6	N-Nitrosodiphenylamine	7400	U J
101-55-3	4-Bromophenyl-phenylether	7400	U J
118-74-1	Hexachlorobenzene	7400	U J
1912-24-9	Atrazine	7400	U J
87-86-5	Pentachlorophenol	7400	U J
85-01-8	Phenanthrene	4500000 ~~2800000~~	~~E~~ J
120-12-7	Anthracene	1100000 ~~690000~~	~~E~~ J
86-74-8	Carbazole	43000	J
84-74-2	Di-n-butyl phthalate	7400	U J
206-44-0	Fluoranthene	1200000 ~~740000~~	~~E~~ J
129-00-0	Pyrene	2100000 ~~1400000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	7400	U J
91-94-1	3,3´-Dichlorobenzidine	7400	U J
56-55-3	Benzo(a)anthracene	810000 ~~790000~~	~~E~~ J
218-01-9	Chrysene	780000 ~~400000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	7400	U J
~~117-84-0~~	~~Di-n-octyl phthalate~~	~~7400~~	~~U~~
205-99-2	Benzo(b)fluoranthene	260000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	370000 ~~300000~~	~~E~~ J
50-32-8	Benzo(a)pyrene	500000 ~~410000~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	65000	J
53-70-3	Dibenzo(a,h)anthracene	42000	J
191-24-2	Benzo(g,h,i)perylene	71000	J

(1) Cannot be separated from Diphenylamine

AECOM058 S119

1G

EPA SAMPLE NO.

SB-3 (36-38)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50033.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted:(Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 10/28/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 21 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		substituted benzene	5.26	210000	JY
2.	000090-12-0	Naphthalene, 1-methyl-	8.09	13000	JNY
3.		ethyl naphthalene isomer	8.86	56000	JY
4.		dimethyl naphthalene isomer (9.03)	9.03	160000	JY
5.		dimethyl naphthalene isomer (9.23)	9.23	290000	JY
6.	000827-54-3	Naphthalene, 2-ethenyl-	9.31	80000	JNY
7.		dimethyl naphthalene isomer (9.42)	9.42	130000	JY
8.		unknown	10.42	87000	JY
9.		unknown PNA (10.69)	10.69	150000	JY
10.		unknown PNA (10.79)	10.79	63000	JY
11.		unknown PNA (11.1)	11.10	100000	JY
12.		unknown PNA (11.22)	11.22	110000	J
13.		unknown PNA (11.31)	11.31	110000	J
14.		methyl-9H-fluorene isomer (11.96)	11.96	110000	J
15.		methyl-9H-fluorene isomer (12.02)	12.02	76000	J
16.		methyl-9H-fluorene isomer (12.15)	12.15	88000	J
17.		methyl-9H-fluorene isomer (12.33)	12.33	82000	J
18.	000132-65-0	Dibenzothiophene	12.47	180000	JN
19.		methyldibenzothiophene isomer	13.17	87000	J
20.		substituted PNA (13.41)	13.41	160000	J
21.		substituted PNA (13.77)	13.77	100000	J

AECOM058 S120

1C

EPA SAMPLE NO.

SB-3 (36-38)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50063.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1500000	U
100-52-7	Benzaldehyde	1500000	U
108-95-2	Phenol	1500000	U
111-44-4	Bis(2-chloroethyl)ether	1500000	U
95-57-8	2-Chlorophenol	1500000	U
95-48-7	2-Methylphenol	1500000	U
108-60-1	2,2´-oxybis(1-chloropropane)	1500000	U
98-86-2	Acetophenone	1500000	U
621-64-7	N-Nitroso-di-n-propylamine	1500000	U
67-72-1	Hexachloroethane	1500000	U
98-95-3	Nitrobenzene	1500000	U
78-59-1	Isophorone	1500000	U
88-75-5	2-Nitrophenol	1500000	U
105-67-9	2,4-Dimethylphenol	1500000	U
111-91-1	Bis(2-chloroethoxy)methane	1500000	U
120-83-2	2,4-Dichlorophenol	1500000	U
91-20-3	Naphthalene	7800000	D
106-47-8	4-Chloroaniline	1500000	U
87-68-3	Hexachlorobutadiene	1500000	U
105-60-2	Caprolactam	1500000	U
59-50-7	4-Chloro-3-methylphenol	1500000	U
91-57-6	2-Methylnaphthalene	4300000	D
77-47-4	Hexachlorocyclopentadiene	1500000	U
88-06-2	2,4,6-Trichlorophenol	1500000	U
95-95-4	2,4,5-Trichlorophenol	1500000	U
92-52-4	1,1´-Biphenyl	510000	DJ
91-58-7	2-Chloronaphthalene	1500000	U
88-74-4	2-Nitroaniline	1500000	U
131-11-3	Dimethylphthalate	1500000	U
606-20-2	2,6-Dinitrotoluene	1500000	U
208-96-8	Acenaphthylene	1800000	D
99-09-2	3-Nitroaniline	1500000	U
83-32-9	Acenaphthene	340000	DJ
51-28-5	2,4-Dinitrophenol	1500000	U
100-02-7	4-Nitrophenol	1500000	U
132-64-9	Dibenzofuran	1500000	U

AECOM058 S121

1D

EPA SAMPLE NO.

SB-3 (36-38)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50063.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1500000	U
84-66-2	Diethylphthalate	1500000	U
86-73-7	Fluorene	1500000	D
7005-72-3	4-Chlorophenyl-phenylether	1500000	U
100-01-6	4-Nitroaniline	1500000	U
534-52-1	4,6-Dinitro-2-methylphenol	1500000	U
86-30-6	N-Nitrosodiphenylamine	1500000	U
101-55-3	4-Bromophenyl-phenylether	1500000	U
118-74-1	Hexachlorobenzene	1500000	U
1912-24-9	Atrazine	1500000	U
87-86-5	Pentachlorophenol	1500000	U
85-01-8	Phenanthrene	4500000	D
120-12-7	Anthracene	1100000	DJ
86-74-8	Carbazole	1500000	U
84-74-2	Di-n-butyl phthalate	1500000	U
206-44-0	Fluoranthene	1200000	DJ
129-00-0	Pyrene	2100000	D
85-68-7	Butyl benzyl phthalate	1500000	U
91-94-1	3,3'-Dichlorobenzidine	1500000	U
56-55-3	Benzo(a)anthracene	810000	DJ
218-01-9	Chrysene	780000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	1500000	U
117-84-0	Di-n-octyl phthalate	1500000	U
205-99-2	Benzo(b)fluoranthene	1500000	U
207-08-9	Benzo(k)fluoranthene	370000	DJ
50-32-8	Benzo(a)pyrene	500000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	1500000	U
53-70-3	Dibenzo(a,h)anthracene	1500000	U
191-24-2	Benzo(g,h,i)perylene	1500000	U

reporting DL

(1) Cannot be separated from Diphenylamine

AECOM058 S122

1G

EPA SAMPLE NO.

SB-3 (36-38)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50063.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 10.3 Decanted:(Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 10/29/09

Injection Volume: 2 (µl) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 13 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	substituted benzene	5.18	1500000	JD
2. 000090-12-0	Naphthalene, 1-methyl-	7.87	2800000	JND
3.	dimethyl naphthalene isomer (8.83)	8.83	1100000	JD
4.	dimethyl naphthalene isomer (8.99)	8.99	1500000	JD
5.	dimethyl naphthalene isomer (9.03)	9.03	620000	JD
6.	substituted PNA (13.23)	13.23	1100000	JD
7.	substituted PNA (13.26)	13.26	1000000	JD
8.	substituted PNA (13.38)	13.38	1400000	JD
9.	substituted PNA (13.4)	13.40	620000	JD
10.	substituted PNA (13.61)	13.61	590000	JD
11. 000781-43-1	9,10-Dimethylanthracene	13.91	710000	JND
12.	unknown PNA	14.15	620000	JD
13.	substituted PNA (14.61)	14.61	710000	JD

AECOM058 S123

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50025.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	440	U
100-52-7	Benzaldehyde	440	UJ
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2´-oxybis(1-chloropropane)	440	U
98-86-2	Acetophenone	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	1900	
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	370	J
77-47-4	Hexachlorocyclopentadiene	440	UJ
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
92-52-4	1,1´-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	440	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	440	U
83-32-9	Acenaphthene	120	J
51-28-5	2,4-Dinitrophenol	440	U
100-02-7	4-Nitrophenol	440	U
132-64-9	Dibenzofuran	440	U

AECOM058 S124

1D

EPA SAMPLE NO.

SB-3 (46-48)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50025.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 25.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	150	J
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	440	U
534-52-1	4,6-Dinitro-2-methylphenol	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	440	U
85-01-8	Phenanthrene	470	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	440	U
84-74-2	Di-n-butyl phthalate	~~160~~ 440	~~BJ~~ U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	220	J
85-68-7	Butyl benzyl phthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	96	J
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) Cannot be separated from Diphenylamine

AECOM058 S125

1G

EPA SAMPLE NO.

SB-3 (46-48)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50025.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 25.8 Decanted:(Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/28/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.67	8500	JNA
2. 000090-12-0	Naphthalene, 1-methyl-	7.92	260	JN
3.	substituted PNA	13.41	190	J
4. 000301-02-0	9-Octadecenamide, (Z)-	14.95	820	JN
5. 000112-84-5	Erucylamide	15.98	190	JN

AECOM058 S126

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50032.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 2000 X

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	9500	
100-52-7	Benzaldehyde	8200	U J
108-95-2	Phenol	8200	U
111-44-4	Bis(2-chloroethyl)ether	8200	U
95-57-8	2-Chlorophenol	8200	U
95-48-7	2-Methylphenol	5500	J
108-60-1	2,2´-oxybis(1-chloropropane)	8200	U
98-86-2	Acetophenone	8200	U
621-64-7	N-Nitroso-di-n-propylamine	8200	U
67-72-1	Hexachloroethane	8200	U
98-95-3	Nitrobenzene	8200	U J
78-59-1	Isophorone	8200	U J
88-75-5	2-Nitrophenol	8200	U J
105-67-9	2,4-Dimethylphenol	8200	U J
111-91-1	Bis(2-chloroethoxy)methane	8200	U J
120-83-2	2,4-Dichlorophenol	8200	U J
91-20-3	Naphthalene 11000000	~~8100000~~	~~E~~ J
106-47-8	4-Chloroaniline	8200	U J
87-68-3	Hexachlorobutadiene	8200	U J
105-60-2	Caprolactam	8200	U J
59-50-7	4-Chloro-3-methylphenol	8200	U J
91-57-6	2-Methylnaphthalene 4500000	~~4600000~~	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	8200	U J
88-06-2	2,4,6-Trichlorophenol	8200	U
95-95-4	2,4,5-Trichlorophenol	8200	U
92-52-4	1,1´-Biphenyl 440000	~~380000~~	~~E~~ J
91-58-7	2-Chloronaphthalene	8200	U
88-74-4	2-Nitroaniline	8200	U
131-11-3	Dimethylphthalate	8200	U
606-20-2	2,6-Dinitrotoluene	8200	U
208-96-8	Acenaphthylene 1400000	~~970000~~	~~E~~ J
99-09-2	3-Nitroaniline	8200	U
83-32-9	Acenaphthene 370000	~~320000~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	8200	U
100-02-7	4-Nitrophenol	8200	U
132-64-9	Dibenzofuran 190000	~~190000~~	~~E~~ J

15

AECOM058 S127

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50032.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	8200	U
84-66-2	Diethylphthalate	8200	U
86-73-7	Fluorene	990000 ~~800000~~	~~E~~ J
7005-72-3	4-Chlorophenyl-phenylether	8200	U
100-01-6	4-Nitroaniline	8200	U
534-52-1	4,6-Dinitro-2-methylphenol	8200	U
86-30-6	N-Nitrosodiphenylamine	8200	U
101-55-3	4-Bromophenyl-phenylether	8200	U
118-74-1	Hexachlorobenzene	8200	U
1912-24-9	Atrazine	8200	U
87-86-5	Pentachlorophenol	8200	U
85-01-8	Phenanthrene	2700000 ~~1800000~~	~~E~~ J
120-12-7	Anthracene	730000 ~~550000~~	~~E~~ J
86-74-8	Carbazole	82000	J
84-74-2	Di-n-butyl phthalate	8200	U
206-44-0	Fluoranthene	930000 ~~700000~~	~~E~~ J
129-00-0	Pyrene	1200000 ~~940000~~	~~E~~ J
85-68-7	Butyl benzyl phthalate	8200	U J
91-94-1	3,3'-Dichlorobenzidine	8200	U J
56-55-3	Benzo(a)anthracene	420000 ~~400000~~	~~E~~ J
218-01-9	Chrysene	450000 ~~330000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	8200	U J
117-84-0	Di-n-octyl phthalate	8200	U J
205-99-2	Benzo(b)fluoranthene	230000	~~E~~ J
207-08-9	Benzo(k)fluoranthene	200000	~~E~~ J
50-32-8	Benzo(a)pyrene	270000	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	48000	J
53-70-3	Dibenzo(a,h)anthracene	27000	J
191-24-2	Benzo(g,h,i)perylene	38000	J

(1) Cannot be separated from Diphenylamine

15

AECOM058 S128

1G

EPA SAMPLE NO.

SB-8 (24-26)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50032.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted:(Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 10/28/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 19 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3 substituted benzene	5.02	33000	JY
2.		c4 substituted benzene	5.56	36000	JY
3.	000090-12-0	Naphthalene, 1-methyl-	8.12	27000	JNY
4.		ethyl naphthalene isomer	8.84	62000	J
5.		dimethyl naphthalene isomer (9.01)	9.01	230000	J
6.		dimethyl naphthalene isomer (9.19)	9.19	230000	J
7.	000827-54-3	Naphthalene, 2-ethenyl-	9.27	110000	JN
8.		dimethyl naphthalene isomer (9.37)	9.37	140000	J
9.		trimethyl naphthalene isomer (10.18)	10.18	33000	J
10.		trimethyl naphthalene isomer (10.24)	10.24	39000	J
11.		methyl-1,1'-biphenyl isomer	10.36	54000	J
12.		trimethyl naphthalene isomer (10.41)	10.41	34000	J
13.		trimethyl naphthalene isomer (10.44)	10.44	33000	J
14.		unknown PNA (10.63)	10.63	110000	J
15.		unknown PNA (10.74)	10.74	61000	J
16.		unknown PNA (11.02)	11.02	76000	J
17.		unknown PNA (11.16)	11.16	69000	J
18.		unknown PNA (14.26)	14.26	28000	JY
19.		substituted PNA	14.71	29000	JY

AECOM058 S129

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50064.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 10/29/09

Injection Volume: 2 (µL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	1600000	U
100-52-7	Benzaldehyde	1600000	U
108-95-2	Phenol	1600000	U
111-44-4	Bis(2-chloroethyl)ether	1600000	U
95-57-8	2-Chlorophenol	1600000	U
95-48-7	2-Methylphenol	1600000	U
108-60-1	2,2´-oxybis(1-chloropropane)	1600000	U
98-86-2	Acetophenone	1600000	U
621-64-7	N-Nitroso-di-n-propylamine	1600000	U
67-72-1	Hexachloroethane	1600000	U
98-95-3	Nitrobenzene	1600000	U
78-59-1	Isophorone	1600000	U
88-75-5	2-Nitrophenol	1600000	U
105-67-9	2,4-Dimethylphenol	1600000	U
111-91-1	Bis(2-chloroethoxy)methane	1600000	U
120-83-2	2,4-Dichlorophenol	1600000	U
91-20-3	Naphthalene	11000000	D
106-47-8	4-Chloroaniline	1600000	U
87-68-3	Hexachlorobutadiene	1600000	U
105-60-2	Caprolactam	1600000	U
59-50-7	4-Chloro-3-methylphenol	1600000	U
91-57-6	2-Methylnaphthalene	4500000	D
77-47-4	Hexachlorocyclopentadiene	1600000	U
88-06-2	2,4,6-Trichlorophenol	1600000	U
95-95-4	2,4,5-Trichlorophenol	1600000	U
92-52-4	1,1´-Biphenyl	440000	DJ
91-58-7	2-Chloronaphthalene	1600000	U
88-74-4	2-Nitroaniline	1600000	U
131-11-3	Dimethylphthalate	1600000	U
606-20-2	2,6-Dinitrotoluene	1600000	U
208-96-8	Acenaphthylene	1400000	DJ
99-09-2	3-Nitroaniline	1600000	U
83-32-9	Acenaphthene	370000	DJ
51-28-5	2,4-Dinitrophenol	1600000	U
100-02-7	4-Nitrophenol	1600000	U
132-64-9	Dibenzofuran	1600000	U

Report as original DO

AECOM058 S130

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50064.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (μL) Date Analyzed: 10/29/09

Injection Volume: 2 (μL) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (μg/L or μg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	1600000	U
84-66-2	Diethylphthalate	1600000	U
86-73-7	Fluorene	990000	DJ
7005-72-3	4-Chlorophenyl-phenylether	1600000	U
100-01-6	4-Nitroaniline	1600000	U
534-52-1	4,6-Dinitro-2-methylphenol	1600000	U
86-30-6	N-Nitrosodiphenylamine	1600000	U
101-55-3	4-Bromophenyl-phenylether	1600000	U
118-74-1	Hexachlorobenzene	1600000	U
1912-24-9	Atrazine	1600000	U
87-86-5	Pentachlorophenol	1600000	U
85-01-8	Phenanthrene	2700000	D
120-12-7	Anthracene	730000	DJ
86-74-8	Carbazole	1600000	U
84-74-2	Di-n-butyl phthalate	1600000	U
206-44-0	Fluoranthene	930000	DJ
129-00-0	Pyrene	1200000	DJ
85-68-7	Butyl benzyl phthalate	1600000	U
91-94-1	3,3´-Dichlorobenzidine	1600000	U
56-55-3	Benzo(a)anthracene	420000	DJ
218-01-9	Chrysene	450000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	1600000	U
117-84-0	Di-n-octyl phthalate	1600000	U
205-99-2	Benzo(b)fluoranthene	1600000	U
207-08-9	Benzo(k)fluoranthene	1600000	U
50-32-8	Benzo(a)pyrene	1600000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1600000	U
53-70-3	Dibenzo(a,h)anthracene	1600000	U
191-24-2	Benzo(g,h,i)perylene	1600000	U

(1) Cannot be separated from Diphenylamine

— depart from — original — DO —

AECOM058 S131

1G

EPA SAMPLE NO.

SB-8 (24-26)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50064.D

Level: (low/med) LOW Date Received: 10/21/09

% Moisture: 19.8 Decanted:(Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 10/29/09

Injection Volume: 2 (µl) Dilution Factor: 2,000.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	**substituted benzene (4.72)**	**4.72**	**1100000**	**JD**
2.	**substituted benzene (5.18)**	**5.18**	**2500000**	**JD**
3.	**methyl-1H-indene isomer (6.16)**	**6.16**	**730000**	**JD**
4.	**methyl-1H-indene isomer (6.22)**	**6.22**	**700000**	**JD**
5. 000090-12-0	**Naphthalene, 1-methyl-**	**7.87**	**2800000**	**JND**
6.	**dimethyl naphthalene isomer (8.83)**	**8.83**	**930000**	**JD**
7.	**dimethyl naphthalene isomer (8.99)**	**8.99**	**960000**	**JD**
8.	**substituted PNA**	**13.37**	**700000**	**JD**

AECOM058 S132

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50226.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/05/09

Injection Volume: 2 (µL) Dilution Factor: 10.00 / 100 f

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	4100	U
100-52-7	Benzaldehyde	4100	U J
108-95-2	Phenol	4100	U
111-44-4	Bis(2-chloroethyl)ether	4100	U
95-57-8	2-Chlorophenol	4100	U
95-48-7	2-Methylphenol	4100	U
108-60-1	2,2´-oxybis(1-chloropropane)	4100	U
98-86-2	Acetophenone	4100	U
621-64-7	N-Nitroso-di-n-propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
111-91-1	Bis(2-chloroethoxy)methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
91-20-3	Naphthalene	85000 ~~78000~~	~~E~~
106-47-8	4-Chloroaniline	4100	U
87-68-3	Hexachlorobutadiene	4100	U
105-60-2	Caprolactam	4100	U
59-50-7	4-Chloro-3-methylphenol	4100	U
91-57-6	2-Methylnaphthalene	63000	
77-47-4	Hexachlorocyclopentadiene	4100	U J
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	4100	U
92-52-4	1,1´-Biphenyl	15000	
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	4100	U
131-11-3	Dimethylphthalate	4100	U
606-20-2	2,6-Dinitrotoluene	4100	U
208-96-8	Acenaphthylene	16000	
99-09-2	3-Nitroaniline	4100	U
83-32-9	Acenaphthene	120000 ~~110000~~	~~E~~
51-28-5	2,4-Dinitrophenol	4100	U
100-02-7	4-Nitrophenol	4100	U
132-64-9	Dibenzofuran	8900	

AECOM058 S133

1D

EPA SAMPLE NO.

SB-17 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50226.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/05/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethylphthalate	4100	U
86-73-7	Fluorene	77000 ~~67000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	4100	U
100-01-6	4-Nitroaniline	4100	U
534-52-1	4,6-Dinitro-2-methylphenol	4100	U
86-30-6	N-Nitrosodiphenylamine	4100	U
101-55-3	4-Bromophenyl-phenylether	4100	U
118-74-1	Hexachlorobenzene	4100	U
1912-24-9	Atrazine	4100	U
87-86-5	Pentachlorophenol	4100	U
85-01-8	Phenanthrene	320000 ~~260000~~	~~E~~
120-12-7	Anthracene	100000 ~~86000~~	~~E~~
86-74-8	Carbazole	3400	J
84-74-2	Di-n-butyl phthalate	4100	U
206-44-0	Fluoranthene	100000 ~~92000~~	~~E~~
129-00-0	Pyrene	170000 ~~130000~~	~~E~~
85-68-7	Butyl benzyl phthalate	4100	U
91-94-1	3,3'-Dichlorobenzidine	4100	U
56-55-3	Benzo(a)anthracene	65000	
218-01-9	Chrysene	64000	
117-81-7	Bis(2-ethylhexyl)phthalate	4100	U
117-84-0	Di-n-octyl phthalate	4100	U
205-99-2	Benzo(b)fluoranthene	29000	
207-08-9	Benzo(k)fluoranthene	18000	
50-32-8	Benzo(a)pyrene	41000	
193-39-5	Indeno(1,2,3-cd)pyrene	9300	
53-70-3	Dibenzo(a,h)anthracene	6400	
191-24-2	Benzo(g,h,i)perylene	8700	

(1) Cannot be separated from Diphenylamine

AECOM058 S134

1G

EPA SAMPLE NO.

SB-17 (16-18)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50226.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted:(Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/05/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 19 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	2.79	13000	J
2. 000090-12-0	Naphthalene, 1-methyl-	7.80	24000	JNY
3.	ethyl naphthalene isomer	8.62	17000	J
4.	dimethyl naphthalene isomer (8.76)	8.76	74000	J
5.	dimethyl naphthalene isomer (8.93)	8.93	100000	J
6.	dimethyl naphthalene isomer (8.96)	8.96	36000	J
7.	dimethyl naphthalene isomer (9.12)	9.12	41000	J
8.	dimethyl naphthalene isomer (9.16)	9.16	22000	J
9.	trimethyl naphthalene isomer (9.98)	9.98	20000	J
10.	trimethyl naphthalene isomer (10.04)	10.04	24000	J
11.	(DEL) Alkane: Cyclic	10.12	13000	J
12.	trimethyl naphthalene isomer (10.2)	10.20	28000	J
13.	trimethyl naphthalene isomer (10.23)	10.23	17000	J
14.	unknown PNA (10.4)	10.40	36000	J
15.	unknown PNA (10.54)	10.54	21000	J
16.	substituted PNA (10.72)	10.72	22000	J
17.	unknown PNA (10.8)	10.80	29000	J
18.	substituted PNA (10.84)	10.84	15000	J
19.	unknown PNA (10.94)	10.94	29000	J
20. 000192-97-2	Benzo(e)pyrene	16.40	12000	JN

AECOM058 S135

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (16-18)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50275.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	41000	U
100-52-7	Benzaldehyde	41000	U
108-95-2	Phenol	41000	U
111-44-4	Bis(2-chloroethyl)ether	41000	U
95-57-8	2-Chlorophenol	41000	U
95-48-7	2-Methylphenol	41000	U
108-60-1	2,2´-oxybis(1-chloropropane)	41000	U
98-86-2	Acetophenone	41000	U
621-64-7	N-Nitroso-di-n-propylamine	41000	U
67-72-1	Hexachloroethane	41000	U
98-95-3	Nitrobenzene	41000	U
78-59-1	Isophorone	41000	U
88-75-5	2-Nitrophenol	41000	U
105-67-9	2,4-Dimethylphenol	41000	U
111-91-1	Bis(2-chloroethoxy)methane	41000	U
120-83-2	2,4-Dichlorophenol	41000	U
91-20-3	Naphthalene	85000	D
106-47-8	4-Chloroaniline	41000	U
87-68-3	Hexachlorobutadiene	41000	U
105-60-2	Caprolactam	41000	U
59-50-7	4-Chloro-3-methylphenol	41000	U
91-57-6	2-Methylnaphthalene	64000	D
77-47-4	Hexachlorocyclopentadiene	41000	U
88-06-2	2,4,6-Trichlorophenol	41000	U
95-95-4	2,4,5-Trichlorophenol	41000	U
92-52-4	1,1´-Biphenyl	14000	DJ
91-58-7	2-Chloronaphthalene	41000	U
88-74-4	2-Nitroaniline	41000	U
131-11-3	Dimethylphthalate	41000	U
606-20-2	2,6-Dinitrotoluene	41000	U
208-96-8	Acenaphthylene	15000	DJ
99-09-2	3-Nitroaniline	41000	U
83-32-9	Acenaphthene	120000	D
51-28-5	2,4-Dinitrophenol	41000	U
100-02-7	4-Nitrophenol	41000	U
132-64-9	Dibenzofuran	9300	DJ

AECOM058 S136

1D

EPA SAMPLE NO.

SB-17 (16-18)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50275.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	41000	U
84-66-2	Diethylphthalate	41000	U
86-73-7	Fluorene	77000	D
7005-72-3	4-Chlorophenyl-phenylether	41000	U
100-01-6	4-Nitroaniline	41000	U
534-52-1	4,6-Dinitro-2-methylphenol	41000	U
86-30-6	N-Nitrosodiphenylamine	41000	U
101-55-3	4-Bromophenyl-phenylether	41000	U
118-74-1	Hexachlorobenzene	41000	U
1912-24-9	Atrazine	41000	U
87-86-5	Pentachlorophenol	41000	U
85-01-8	Phenanthrene	320000	D
120-12-7	Anthracene	100000	D
86-74-8	Carbazole	41000	U
84-74-2	Di-n-butyl phthalate	41000	U
206-44-0	Fluoranthene	100000	D
129-00-0	Pyrene	170000	D
85-68-7	Butyl benzyl phthalate	41000	U
91-94-1	3,3'-Dichlorobenzidine	41000	U
56-55-3	Benzo(a)anthracene	69000	D
218-01-9	Chrysene	68000	D
117-81-7	Bis(2-ethylhexyl)phthalate	41000	U
117-84-0	Di-n-octyl phthalate	41000	U
205-99-2	Benzo(b)fluoranthene	24000	DJ
207-08-9	Benzo(k)fluoranthene	26000	DJ
50-32-8	Benzo(a)pyrene	42000	D
193-39-5	Indeno(1,2,3-cd)pyrene	14000	DJ
53-70-3	Dibenzo(a,h)anthracene	41000	U
191-24-2	Benzo(g,h,i)perylene	15000	DJ

(1) Cannot be separated from Diphenylamine

AECOM058 S137

1G

EPA SAMPLE NO.

SB-17 (16-18)DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50275.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 19.4 Decanted:(Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/06/09

Injection Volume: 2 (µl) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 19 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000090-12-0	Naphthalene, 1-methyl-	7.74	140000	JND
2.	dimethyl naphthalene isomer (8.69)	8.69	76000	JD
3.	dimethyl naphthalene isomer (8.85)	8.85	93000	JD
4.	dimethyl naphthalene isomer (8.89)	8.89	43000	JD
5.	dimethyl naphthalene isomer (9.06)	9.06	37000	JD
6.	unknown PNA (10.73)	10.73	31000	JD
7.	unknown PNA + alkane	10.94	58000	JD
8.	(DEL) Alkane: Branched	11.47	46000	JD
9.	methyl-9H-fluorene isomer	11.62	36000	JD
10.	methyldibenzothiophene isomer	12.88	33000	JD
11.	substituted PNA (13.13)	13.13	77000	JD
12.	substituted PNA (13.16)	13.16	85000	JD
13.	substituted PNA (13.21)	13.21	43000	JD
14.	substituted PNA (13.27)	13.27	120000	JD
15.	substituted PNA (13.3)	13.30	48000	JD
16.	substituted PNA (13.51)	13.51	35000	JD
17.	substituted PNA (13.73)	13.73	36000	JD
18.	substituted PNA (13.82)	13.82	33000	JD
19.	unknown PNA (14.06)	14.06	37000	JD
20.	substituted PNA (14.52)	14.52	37000	JD

AECOM058 S138

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50227.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/05/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /50

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	380	U
100-52-7	Benzaldehyde	380	U J
108-95-2	Phenol	380	U
111-44-4	Bis(2-chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2´-oxybis(1-chloropropane)	380	U
98-86-2	Acetophenone	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	Bis(2-chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
91-20-3	Naphthalene	94000 ~~69000~~	~~E~~
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
105-60-2	Caprolactam	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	65000 ~~49000~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	380	U J
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
92-52-4	1,1´-Biphenyl	8200 ~~7600~~	~~E~~ J
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	4800	
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	34000 ~~25000~~	~~E~~
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	1700	

AECOM058 S139

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50227.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/05/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 | 50

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	25000 ~~20000~~	~~E~~
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
1912-24-9	Atrazine	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	91000 ~~65000~~	~~E~~
120-12-7	Anthracene	23000 ~~17000~~	~~E~~
86-74-8	Carbazole	540	
84-74-2	Di-n-butyl phthalate	380	U
206-44-0	Fluoranthene	31000 ~~21000~~	~~E~~
129-00-0	Pyrene	43000 ~~32000~~	~~E~~
85-68-7	Butyl benzyl phthalate	380	U
91-94-1	3,3´-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	18000 ~~17000~~	~~E~~ J
218-01-9	Chrysene	17000 ~~14000~~	~~E~~ J
117-81-7	Bis(2-ethylhexyl)phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
205-99-2	Benzo(b)fluoranthene	8200	~~E~~ J
207-08-9	Benzo(k)fluoranthene	5400	
50-32-8	Benzo(a)pyrene	12000 ~~11000~~	~~E~~ J
193-39-5	Indeno(1,2,3-cd)pyrene	1800	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1700	

(1) Cannot be separated from Diphenylamine

AECOM058 S140

1G

EPA SAMPLE NO.

SB-17 (36-38)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50227.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted:(Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/05/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000090-12-0	Naphthalene, 1-methyl-	7.87	970	JNY
2.	ethyl naphthalene isomer	8.66	1200	JY
3.	dimethyl naphthalene isomer (8.79)	8.79	1300	JY
4.	dimethyl naphthalene isomer (8.96)	8.96	1600	JY
5.	dimethyl naphthalene isomer (9.15)	9.15	750	JY
6.	unknown PNA (10.42)	10.42	840	JY
7.	unknown PNA (10.84)	10.84	710	JY
8.	unknown PNA (10.97)	10.97	570	JY
9.	unknown PNA (14.17)	14.17	1300	JY
10.	substituted PNA (14.62)	14.62	1400	JY
11.	substituted PNA (14.68)	14.68	760	JY
12.	substituted PNA (14.72)	14.72	530	JY
13.	substituted PNA (14.79)	14.79	880	JY
14.	substituted PNA (14.82)	14.82	600	JY
15.	substituted PNA (14.98)	14.98	590	JY
16.	substituted PNA (15.17)	15.17	620	JY
17.	substituted PNA (15.66)	15.66	550	JY
18.	unknown PNA (16.26)	16.26	2300	J
19. 000192-97-2	Benzo(e)pyrene	16.42	3800	JN
20.	substituted PNA (16.67)	16.67	3400	J

AECOM058 S141

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50222.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/04/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	19000	U
100-52-7	Benzaldehyde	19000	U
108-95-2	Phenol	19000	U
111-44-4	Bis(2-chloroethyl)ether	19000	U
95-57-8	2-Chlorophenol	19000	U
95-48-7	2-Methylphenol	19000	U
108-60-1	2,2´-oxybis(1-chloropropane)	19000	U
98-86-2	Acetophenone	19000	U
621-64-7	N-Nitroso-di-n-propylamine	19000	U
67-72-1	Hexachloroethane	19000	U
98-95-3	Nitrobenzene	19000	U
78-59-1	Isophorone	19000	U
88-75-5	2-Nitrophenol	19000	U
105-67-9	2,4-Dimethylphenol	19000	U
111-91-1	Bis(2-chloroethoxy)methane	19000	U
120-83-2	2,4-Dichlorophenol	19000	U
91-20-3	Naphthalene	94000	D
106-47-8	4-Chloroaniline	19000	U
87-68-3	Hexachlorobutadiene	19000	U
105-60-2	Caprolactam	19000	U
59-50-7	4-Chloro-3-methylphenol	19000	U
91-57-6	2-Methylnaphthalene	55000	D
77-47-4	Hexachlorocyclopentadiene	19000	U
88-06-2	2,4,6-Trichlorophenol	19000	U
95-95-4	2,4,5-Trichlorophenol	19000	U
92-52-4	1,1´-Biphenyl	8200	DJ
91-58-7	2-Chloronaphthalene	19000	U
88-74-4	2-Nitroaniline	19000	U
131-11-3	Dimethylphthalate	19000	U
606-20-2	2,6-Dinitrotoluene	19000	U
208-96-8	Acenaphthylene	4800	DJ
99-09-2	3-Nitroaniline	19000	U
83-32-9	Acenaphthene	34000	D
51-28-5	2,4-Dinitrophenol	19000	U
100-02-7	4-Nitrophenol	19000	U
132-64-9	Dibenzofuran	19000	U

AECOM058 S142

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50222.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/04/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	19000	U
84-66-2	Diethylphthalate	19000	U
86-73-7	Fluorene	25000	D
7005-72-3	4-Chlorophenyl-phenylether	19000	U
100-01-6	4-Nitroaniline	19000	U
534-52-1	4,6-Dinitro-2-methylphenol	19000	U
86-30-6	N-Nitrosodiphenylamine	19000	U
101-55-3	4-Bromophenyl-phenylether	19000	U
118-74-1	Hexachlorobenzene	19000	U
1912-24-9	Atrazine	19000	U
87-86-5	Pentachlorophenol	19000	U
85-01-8	Phenanthrene	91000	D
120-12-7	Anthracene	23000	D
86-74-8	Carbazole	19000	U
84-74-2	Di-n-butyl phthalate	19000	U
206-44-0	Fluoranthene	31000	D
129-00-0	Pyrene	43000	D
85-68-7	Butyl benzyl phthalate	19000	U
91-94-1	3,3´-Dichlorobenzidine	19000	U
56-55-3	Benzo(a)anthracene	18000	DJ
218-01-9	Chrysene	17000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	19000	U
117-84-0	Di-n-octyl phthalate	19000	U
205-99-2	Benzo(b)fluoranthene	19000	U
207-08-9	Benzo(k)fluoranthene	8500	DJ
50-32-8	Benzo(a)pyrene	12000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	3800	DJ
53-70-3	Dibenzo(a,h)anthracene	19000	U
191-24-2	Benzo(g,h,i)perylene	4000	DJ

(1) Cannot be separated from Diphenylamine

AECOM058 S143

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SB-17 (36-38)DL

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50222.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 12.5 Decanted:(Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/04/09

Injection Volume: 2 (µl) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 18 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000090-12-0	Naphthalene, 1-methyl-	7.76	35000	JND
2.	ethyl naphthalene isomer	8.60	10000	JD
3.	dimethyl naphthalene isomer (8.72)	8.72	13000	JD
4.	dimethyl naphthalene isomer (8.88)	8.88	17000	JD
5.	dimethyl naphthalene isomer (8.91)	8.91	8000	JD
6.	dimethyl naphthalene isomer (9.09)	9.09	7600	JD
7.	unknown PNA (10.96)	10.96	9100	JD
8.	methyl-9H-fluorene isomer	11.64	9100	JD
9.	substituted PNA (13.14)	13.14	20000	JD
10.	substituted PNA (13.18)	13.18	21000	JD
11.	substituted PNA (13.23)	13.23	8800	JD
12.	substituted PNA (13.29)	13.29	29000	JD
13.	substituted PNA (13.32)	13.32	11000	JD
14.	substituted PNA (13.54)	13.54	9500	JD
15. 000781-43-1	9,10-Dimethylanthracene	13.83	10000	JND
16.	substituted PNA (13.87)	13.87	10000	JD
17.	unknown PNA (14.08)	14.08	11000	JD
18.	substituted PNA (14.54)	14.54	13000	JD

Remove "0" prefix

AECOM058 S144

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50221.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/04/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	400	U
100-52-7	Benzaldehyde	400	UJ
108-95-2	Phenol	400	U
111-44-4	Bis(2-chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2´-oxybis(1-chloropropane)	400	U
98-86-2	Acetophenone	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	Bis(2-chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	91	J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	UJ
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	400	U
92-52-4	1,1´-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	400	U

AECOM058 S145

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50221.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 17.9 Decanted: (Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/04/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	82	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butyl phthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butyl benzyl phthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	Bis(2-ethylhexyl)phthalate	400	U
117-84-0	Di-n-octyl phthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) Cannot be separated from Diphenylamine

AECOM058 S146

1G

EPA SAMPLE NO.

SB-17 (40-42)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50221.D

Level: (low/med) LOW Date Received: 10/26/09

% Moisture: 17.9 Decanted:(Y/N) N Date Extracted: 10/29/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/04/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000301-02-0	9-Octadecenamide, (Z)-	14.86	3000	JN
2.	(DEL) Alkane: Straight-Chain (14.9)	14.90	270	J
3.	(DEL) Alkane: Straight-Chain (15.16)	15.16	290	J
4.	(DEL) Alkane: Straight-Chain (15.4)	15.40	280	J
5.	(DEL) Alkane: Straight-Chain (15.63)	15.63	240	J
6.	(DEL) Alkane: Straight-Chain (15.86)	15.86	360	J
7.	(DEL) Alkane: Straight-Chain (16.11)	16.11	300	J
8.	(DEL) Alkane: Straight-Chain (16.36)	16.36	320	J
9.	(DEL) Alkane: Straight-Chain (16.65)	16.65	380	J
10.	(DEL) Alkane: Straight-Chain (16.97)	16.97	320	J
11.	(DEL) Alkane: Straight-Chain (17.34)	17.34	280	J
12.	(DEL) Alkane: Straight-Chain (17.76)	17.76	210	J

AECOM058 S147

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50278.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	410	U
100-52-7	Benzaldehyde	410	UJ
108-95-2	Phenol	99	J
111-44-4	Bis(2-chloroethyl)ether	410	UJ
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2´-oxybis(1-chloropropane)	410	U
98-86-2	Acetophenone	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	3300	
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	410	UJ
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1´-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	410	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	410	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	410	UJ
100-02-7	4-Nitrophenol	410	U
132-64-9	Dibenzofuran	410	U

AECOM058 S148

1D

EPA SAMPLE NO.

SB-7 (38-40)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50278.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	410	U
534-52-1	4,6-Dinitro-2-methylphenol	410	UJ
86-30-6	N-Nitrosodiphenylamine	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	410	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butyl phthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butyl benzyl phthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	Bis(2-ethylhexyl)phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) Cannot be separated from Diphenylamine

AECOM058 S149

1G

EPA SAMPLE NO.

SB-7 (38-40)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50278.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 19 Decanted:(Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/06/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	3.26	210	JNA
2.		unknown	3.42	280	J
3.	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.58	12000	JNA
4.	000301-02-0	9-Octadecenamide, (Z)-	14.83	1300	JN
5.		(DEL) Alkane: Straight-Chain (15.38)	15.38	220	J
6.		(DEL) Alkane: Straight-Chain (15.61)	15.61	220	J
7.		(DEL) Alkane: Straight-Chain (15.84)	15.84	260	J
8.		(DEL) Alkane: Straight-Chain (16.08)	16.08	300	J
9.		(DEL) Alkane: Straight-Chain (16.34)	16.34	260	J
10.		(DEL) Alkane: Straight-Chain (16.62)	16.62	290	J
11.		(DEL) Alkane: Straight-Chain (16.94)	16.94	210	J

AECOM058 S150

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50279.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 20.7 Decanted: (Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	420	U
100-52-7	Benzaldehyde	420	UJ
108-95-2	Phenol	420	UJ
111-44-4	Bis(2-chloroethyl)ether	420	UJ
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2´-oxybis(1-chloropropane)	420	U
98-86-2	Acetophenone	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	Bis(2-chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	UJ
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
92-52-4	1,1´-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	420	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	420	UJ
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	420	U

AECOM058 S151

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SB-7 (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50279.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 20.7 Decanted: (Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/06/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	UJ
86-30-6	N-Nitrosodiphenylamine	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butyl phthalate	420	U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butyl benzyl phthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	Bis(2-ethylhexyl)phthalate	420	U
117-84-0	Di-n-octyl phthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

(1) Cannot be separated from Diphenylamine

AECOM058 S152

1G

EPA SAMPLE NO.

SB-7 (44-46)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50279.D

Level: (low/med) LOW Date Received: 10/28/09

% Moisture: 20.7 Decanted:(Y/N) N Date Extracted: 11/03/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 11/06/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	3.26	260	JNA
2.		unknown	3.41	270	J
3.	000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.58	11000	JNA
4.	000301-02-0	9-Octadecenamide, (Z)-	14.83	530	JN
5.		(DEL) Alkane: Straight-Chain (15.38)	15.38	200	J
6.		(DEL) Alkane: Straight-Chain (15.61)	15.61	230	J
7.		(DEL) Alkane: Straight-Chain (15.84)	15.84	490	J
8.		(DEL) Alkane: Straight-Chain (16.08)	16.08	300	J
9.		(DEL) Alkane: Straight-Chain (16.34)	16.34	260	J
10.		(DEL) Alkane: Straight-Chain (16.62)	16.62	310	J
11.		(DEL) Alkane: Straight-Chain (16.94)	16.94	240	J
12.		(DEL) Alkane: Straight-Chain (17.31)	17.31	180	J
13.		(DEL) Alkane: Straight-Chain (17.72)	17.72	180	J

AECOM058 S153

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C50365.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: Decanted: (Y/N) N Date Extracted: 11/09/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM058 S154

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB-110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C50365.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: Decanted: (Y/N) N Date Extracted: 11/09/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM058 S155

1G

EPA SAMPLE NO.

FB-110409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C50365.D

Level: (low/med) LOW Date Received: 11/04/09

% Moisture: Decanted:(Y/N) N Date Extracted: 11/09/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 11/10/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM058 S156

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00408.raw

% Moisture: Decanted: (Y/N) N Date Received: 11/04/09

Extraction: (Type) SEPF Date Extracted: 11/09/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/17/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

AECOM058 PE19

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00108.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	47	U
319-85-7	beta-BHC	~~41~~ 47	~~PJ~~ U
319-86-8	delta-BHC	47	U
58-89-9	gamma-BHC	47	U
76-44-8	Heptachlor	47	U
309-00-2	Aldrin	47	U
1024-57-3	Heptachlor epoxide	47	U
959-98-8	Endosulfan I	47	U
60-57-1	Dieldrin	92	U
72-55-9	4,4´-DDE	~~60~~ 92	~~PJ~~ U
72-20-8	Endrin	92	U
33213-65-9	Endosulfan II	610	
72-54-8	4,4´-DDD	150	~~P~~ NJ
1031-07-8	Endosulfan sulfate	1200	~~P~~ NJ
50-29-3	4,4´-DDT	1500	
72-43-5	Methoxychlor	380	J
53494-70-5	Endrin ketone	92	U
7421-93-4	Endrin aldehyde	92	U
5103-71-9	alpha-Chlordane	200	P NJ
5103-74-2	gamma-Chlordane	110	P NJ
8001-35-2	Toxaphene	4700	U

AECOM058 PE24

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00281.raw

% Moisture: 25.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4´-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4´-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4´-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U

AECOM058 PE39

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00110.raw

% Moisture: 19.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 25.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	53	U
319-85-7	beta-BHC	53	U
319-86-8	delta-BHC	53	U
58-89-9	gamma-BHC	53	U
76-44-8	Heptachlor	53	U
309-00-2	Aldrin	53	U
1024-57-3	Heptachlor epoxide	53	U
959-98-8	Endosulfan I	53	U
60-57-1	Dieldrin	100	U
72-55-9	4,4´-DDE	100	U
72-20-8	Endrin	100	U
33213-65-9	Endosulfan II	450	P
72-54-8	4,4´-DDD	100	U
1031-07-8	Endosulfan sulfate	220	P NJ
50-29-3	4,4´-DDT	1600	
72-43-5	Methoxychlor	~~300~~ 530	~~PJ~~ U
53494-70-5	Endrin ketone	~~53~~ 100	~~PJ~~ U
7421-93-4	Endrin aldehyde	150	P J
5103-71-9	alpha-Chlordane	150	P NJ
5103-74-2	gamma-Chlordane	100	P NJ
8001-35-2	Toxaphene	5300	U

AECOM058 PE47

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00287.raw

% Moisture: 19.4 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	4.5	P NJ
319-86-8	delta-BHC	~~1.9~~ 2.1	~~PJ~~ U
58-89-9	gamma-BHC	~~1.1~~ 2.1	~~PJ~~ U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	1.5 2.1	~~PJ~~ U
1024-57-3	Heptachlor epoxide	1.9 2.1	~~PJ~~ U
959-98-8	Endosulfan I	1.7 2.1	~~PJ~~ U
60-57-1	Dieldrin	5.0	P J
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
~~33213-65-9~~	~~Endosulfan II~~	~~100~~	~~EP~~
72-54-8	4,4'-DDD	37	P J
~~1031-07-8~~	~~Endosulfan sulfate~~	~~67~~	~~E~~
~~50-29-3~~	~~4,4'-DDT~~	~~67~~	~~E~~
~~72-43-5~~	~~Methoxychlor~~	~~88~~	~~P NJ~~
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	5.1	P NJ
5103-71-9	alpha-Chlordane	25	P NJ
5103-74-2	gamma-Chlordane	16	P NJ
8001-35-2	Toxaphene	2100	U

Do not report compounds with "*" from this run. Use dilution.

WOB 3/16/10

AECOM058 PE62

1E

EPA SAMPLE NO.

SB-17 (16-18)DL

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: a00106.raw

% Moisture: 19.4 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	18	DPJ
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC	14	DPJ
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	41	U
72-55-9	4,4'-DDE	22	DPJ
72-20-8	Endrin	41	U
* 33213-65-9	Endosulfan II	97	DPJ
72-54-8	4,4'-DDD	51	DP
* 1031-07-8	Endosulfan sulfate	350	DPJ
* 50-29-3	4,4'-DDT	390	DPJ
* 72-43-5	Methoxychlor	260	DPJ
53494-70-5	Endrin ketone	41	U
7421-93-4	Endrin aldehyde	41	U
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	79	DP
8001-35-2	Toxaphene	2100	U

Report only compounds with "*" from this run.

WB 3/6/10

AECOM058 PE73

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00289.raw

% Moisture: 12.5 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	4.7	J
72-55-9	4,4'-DDE	4.5	P J
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	16	J
72-54-8	4,4'-DDD	~~2.7~~ 3.8	BD U
1031-07-8	Endosulfan sulfate	5.4	P NJ
50-29-3	4,4'-DDT	36	J
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	4.3	P J
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	5.1	P NJ
5103-74-2	gamma-Chlordane	4.4	P NJ
8001-35-2	Toxaphene	380	U

AECOM058 PE84

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00280.raw

% Moisture: 17.9 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/28/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4´-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4´-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4´-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

AECOM058 PE95

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00100.raw

% Moisture: 19 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) PFEX Date Extracted: 11/03/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4´-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4´-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4´-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

AECOM058 PE103

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00101.raw

% Moisture: 20.7 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) PFEX Date Extracted: 11/03/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/05/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4´-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4´-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4´-DDT	4.2	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

AECOM058 PE110

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00282.raw

% Moisture: Decanted: (Y/N) N Date Received: 11/04/09

Extraction: (Type) SEPF Date Extracted: 11/09/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/11/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00372.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	1800	U
11104-28-2	Aroclor 1221	3700	U
11141-16-5	Aroclor 1232	1800	U
53469-21-9	Aroclor 1242	1800	U
12672-29-6	Aroclor 1248	1800	U
11097-69-1	Aroclor 1254	1800	U
11096-82-5	Aroclor 1260	1800	U
37324-23-5	Aroclor 1262	1800	U
11100-14-4	Aroclor 1268	1800	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00361.raw

% Moisture: 25.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	44	U
11104-28-2	Aroclor 1221	90	U
11141-16-5	Aroclor 1232	44	U
53469-21-9	Aroclor 1242	44	U
12672-29-6	Aroclor 1248	44	U
11097-69-1	Aroclor 1254	44	U
11096-82-5	Aroclor 1260	44	U
37324-23-5	Aroclor 1262	44	U
11100-14-4	Aroolor 1268	44	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00270.raw

% Moisture: 19 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) PFEX Date Extracted: 11/03/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/11/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	41	U
11104-28-2	Aroclor 1221	83	U
11141-16-5	Aroclor 1232	41	U
53469-21-9	Aroclor 1242	41	U
12672-29-6	Aroclor 1248	41	U
11097-69-1	Aroclor 1254	41	U
11096-82-5	Aroclor 1260	41	U
37324-23-5	Aroclor 1262	41	U
11100-14-4	Aroclor 1268	41	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00271.raw

% Moisture: 20.7 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) PFEX Date Extracted: 11/03/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/11/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	42	U
11104-28-2	Aroclor 1221	84	U
11141-16-5	Aroclor 1232	42	U
53469-21-9	Aroclor 1242	42	U
12672-29-6	Aroclor 1248	42	U
11097-69-1	Aroclor 1254	42	U
11096-82-5	Aroclor 1260	42	U
37324-23-5	Aroclor 1262	42	U
11100-14-4	Aroclor 1268	42	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00369.raw

% Moisture: 19.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	330	U
11104-28-2	Aroclor 1221	670	U
11141-16-5	Aroclor 1232	330	U
53469-21-9	Aroclor 1242	330	U
12672-29-6	Aroclor 1248	330	U
11097-69-1	Aroclor 1254	330	U
11096-82-5	Aroclor 1260	330	U
37324-23-5	Aroclor 1262	330	U
11100-14-4	Aroclor 1268	330	U

AECOM058 P55

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00367.raw

% Moisture: 19.4 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	330	U
11104-28-2	Aroclor 1221	670	U
11141-16-5	Aroclor 1232	330	U
53469-21-9	Aroclor 1242	330	U
12672-29-6	Aroclor 1248	330	U
11097-69-1	Aroclor 1254	330	U
11096-82-5	Aroclor 1260	330	U
37324-23-5	Aroclor 1262	330	U
11100-14-4	Aroclor 1268	330	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00363.raw

% Moisture: 12.5 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	38	U
11104-28-2	Aroclor 1221	77	U
11141-16-5	Aroclor 1232	38	U
53469-21-9	Aroclor 1242	38	U
12672-29-6	Aroclor 1248	38	U
11097-69-1	Aroclor 1254	38	U
11096-82-5	Aroclor 1260	38	U
37324-23-5	Aroclor 1262	38	U
11100-14-4	Aroclor 1268	38	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: a00362.raw

% Moisture: 17.9 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) PFEX Date Extracted: 10/27/09

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	40	U
11104-28-2	Aroclor 1221	82	U
11141-16-5	Aroclor 1232	40	U
53469-21-9	Aroclor 1242	40	U
12672-29-6	Aroclor 1248	40	U
11097-69-1	Aroclor 1254	40	U
11096-82-5	Aroclor 1260	40	U
37324-23-5	Aroclor 1262	40	U
11100-14-4	Aroclor 1268	40	U

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00575.raw

% Moisture: 10.3 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U J
93-72-1	2,4,5-TP (Silvex)	5.6	U J
93-76-5	2,4,5-T	11	U J
94-82-6	2,4-DB	45	U J

AECOM058 H23

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-3 (46-48)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00584.raw

% Moisture: 25.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	13	U
93-72-1	2,4,5-TP (Silvex)	6.7	U
93-76-5	2,4,5-T	6.7	U
94-82-6	2,4-DB	13	U

AECOM058 H30

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911469-003B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00605.raw

% Moisture: 19.8 Decanted: (Y/N) N Date Received: 10/21/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	12	
93-72-1	2,4,5-TP (Silvex)	6.2	U
93-76-5	2,4,5-T	7.7	
94-82-6	2,4-DB	12	U

AECOM058 H36

1E

EPA SAMPLE NO.

SB-17 (16-18)

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00590.raw

% Moisture: 19.4 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	12	U
93-72-1	2,4,5-TP (Silvex)	6.2	U
93-76-5	2,4,5-T	5.2	~~PJ~~ J
94-82-6	2,4-DB	12	U

AECOM058 H48

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00592.raw

% Moisture: 12.5 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	11	U
93-72-1	2,4,5-TP (Silvex)	5.7	U
93-76-5	2,4,5-T	5.7	U
94-82-6	2,4-DB	11	U

AECOM058 H56

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911584-003B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00594.raw

% Moisture: 17.9 Decanted: (Y/N) N Date Received: 10/26/09

Extraction: (Type) TUMB/SEPF Date Extracted: 10/26/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	12	U
93-72-1	2,4,5-TP (Silvex)	6.1	U
93-76-5	2,4,5-T	6.1	U
94-82-6	~~2,4-DB~~	~~10~~	~~U~~ R

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (38-40)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-001B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00036.raw

% Moisture: 19 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 11/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	12	U
93-72-1	2,4,5-TP (Silvex)	6.2	U
93-76-5	2,4,5-T	6.2	U
94-82-6	2,4-DB	12	U

AECOM058 H72

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB-7 (44-46)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: 0911725-002B

Sample wt/vol: 50 (g/mL) G Lab File ID: a00037.raw

% Moisture: 20.7 Decanted: (Y/N) N Date Received: 10/28/09

Extraction: (Type) TUMB/SEPF Date Extracted: 11/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/02/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/Kg	Q
94-75-7	2,4-D	13	U
93-72-1	2,4,5-TP (Silvex)	6.3	U
93-76-5	2,4,5-T	6.3	U
94-82-6	2,4-DB	13	U

AECOM058 H79

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: 0912043-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00262.raw

% Moisture: Decanted: (Y/N) N Date Received: 11/04/09

Extraction: (Type) SEPF Date Extracted: 11/07/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/10/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

AECOM058 H86

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-3 (36-38)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911469-001

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1880		J	P
7440-36-0	Antimony	0.66	B	J	P
7440-38-2	Arsenic	10.7			P
7440-39-3	Barium	11.1	B	J	P
7440-41-7	Beryllium	0.19	B	J	P
7440-43-9	Cadmium	0.091	B	J	P
7440-70-2	Calcium	2260		J	P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	4.0	B	J	P
7440-50-8	Copper	6.8			P
7439-89-6	Iron	18600			P
7439-92-1	Lead	2.7			P
7439-95-4	Magnesium	2140		J	P
7439-96-5	Manganese	143			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	6.5			P
7440-09-7	Potassium	594			P
7782-49-2	Selenium	0.59		J	P
7440-22-4	Silver	0.092	U	J,N	P
7440-23-5	Sodium	228	B	J	P
7440-28-0	Thallium	0.73	B	J	P
7440-62-2	Vanadium	11.4			P
7440-66-6	Zinc	14.1			P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported 11/18/2009

AECOM058 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-3 (46-48)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911469-002

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 74.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16300		*	P
7440-36-0	Antimony	1.4	B	J	P
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	158			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.27	B	J	P
7440-70-2	Calcium	12700		*	P
7440-47-3	Chromium	41.6			P
7440-48-4	Cobalt	16.8			P
7440-50-8	Copper	30.9			P
7439-89-6	Iron	33400			P
7439-92-1	Lead	10.2			P
7439-95-4	Magnesium	13800		*	P
7439-96-5	Manganese	549			P
7439-97-6	Mercury	0.022	U		CV
7440-02-0	Nickel	34.5			P
7440-09-7	Potassium	6220			P
7782-49-2	Selenium	0.33	U		P
7440-22-4	Silver	0.11	U	J N	P
7440-23-5	Sodium	2310			P
7440-28-0	Thallium	0.95	B	J	P
7440-62-2	Vanadium	51.8			P
7440-66-6	Zinc	78.4			P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/18/2009

AECOM058 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-8 (24-26)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911469-003

Level (low/med): LOW Date Received: 10/21/2009

% Solids: 80.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1520		J	P
7440-36-0	Antimony	5.2	B	J	P
7440-38-2	Arsenic	57.4			P
7440-39-3	Barium	33.1			P
7440-41-7	Beryllium	0.58	B	J	P
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium	6420		J	P
7440-47-3	Chromium	7.7			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	66.8			P
7439-89-6	Iron	30700			P
7439-92-1	Lead	334			P
7439-95-4	Magnesium	318	B	J	P
7439-96-5	Manganese	85.9			P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	20.2			P
7440-09-7	Potassium	256	B	J	P
7782-49-2	Selenium	5.9			P
7440-22-4	Silver	0.74	B	NJ	P
7440-23-5	Sodium	201	B	J	P
7440-28-0	Thallium	3.8			P
7440-62-2	Vanadium	12.8			P
7440-66-6	Zinc	179			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/18/2009

AECOM058 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-17 (16-18)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911584-001

Level (low/med): LOW Date Received: 10/26/2009

% Solids: 80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1840		J	P
7440-36-0	Antimony	0.83	B	J	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	44.1			P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.29	B	J	P
7440-70-2	Calcium	7540		J	P
7440-47-3	Chromium	4.6			P
7440-48-4	Cobalt	3.6	B	J	P
7440-50-8	Copper	31.5			P
7439-89-6	Iron	5630			P
7439-92-1	Lead	161			P
7439-95-4	Magnesium	791		J	P
7439-96-5	Manganese	70.1			P
7439-97-6	Mercury	0.17			CV
7440-02-0	Nickel	9.4			P
7440-09-7	Potassium	274	B	J	P
7782-49-2	Selenium	1.1		J	P
7440-22-4	Silver	0.12	B	NJ	P
7440-23-5	Sodium	149	B	J	P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	106			P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported 11/18/2009

AECOM058 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-17 (36-38)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911584-002

Level (low/med): LOW Date Received: 10/26/2009

% Solids: 87.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340		*	P
7440-36-0	Antimony	0.31	B	J	P
7440-38-2	Arsenic	0.79	B	J	P
7440-39-3	Barium	16.3	B	J	P
7440-41-7	Beryllium	0.20	B	J	P
7440-43-9	Cadmium	0.065	B	J	P
7440-70-2	Calcium	3710		*	P
7440-47-3	Chromium	18.0			P
7440-48-4	Cobalt	4.8	B	J	P
7440-50-8	Copper	7.7			P
7439-89-6	Iron	9860			P
7439-92-1	Lead	2.9			P
7439-95-4	Magnesium	5160		*	P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	20.8			P
7440-09-7	Potassium	886			P
7782-49-2	Selenium	0.28	U		P
7440-22-4	Silver	0.095	U	NJ	P
7440-23-5	Sodium	263	B	J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	15.3			P
7440-66-6	Zinc	20.6			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/18/2009

AECOM058 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-17 (40-42)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911584-003

Level (low/med): LOW Date Received: 10/26/2009

% Solids: 82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7100		*	P
7440-36-0	Antimony	0.76	B	J	P
7440-38-2	Arsenic	0.89	B	J	P
7440-39-3	Barium	69.7			P
7440-41-7	Beryllium	0.41	B	J	P
7440-43-9	Cadmium	0.18	B	J	P
7440-70-2	Calcium	10800		*	P
7440-47-3	Chromium	19.1			P
7440-48-4	Cobalt	8.7			P
7440-50-8	Copper	14.2			P
7439-89-6	Iron	17400			P
7439-92-1	Lead	5.1			P
7439-95-4	Magnesium	8200		*	P
7439-96-5	Manganese	372			P
7439-97-6	Mercury	0.020	U		CV
7440-02-0	Nickel	17.0			P
7440-09-7	Potassium	2540			P
7782-49-2	Selenium	0.30	U		P
7440-22-4	Silver	0.10	U	J N	P
7440-23-5	Sodium	945			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	27.3			P
7440-66-6	Zinc	40.0			P

Color Before: GREY Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported 11/18/2009

AECOM058 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-7 (38-40)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911725-001

Level (low/med): LOW Date Received: 10/28/2009

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7340			P
7440-36-0	Antimony	0.75	B	J	P
7440-38-2	Arsenic	1.4			P
7440-39-3	Barium	74.1			P
7440-41-7	Beryllium	0.41	B	J	P
7440-43-9	Cadmium	0.35	B	J	P
7440-70-2	Calcium	11700			P
7440-47-3	Chromium	19.5			P
7440-48-4	Cobalt	8.7			P
7440-50-8	Copper	14.2			P
7439-89-6	Iron	17500			P
7439-92-1	Lead	12.3			P
7439-95-4	Magnesium	8620			P
7439-96-5	Manganese	418			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	16.8			P
7440-09-7	Potassium	2450			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U	N J	P
7440-23-5	Sodium	762			P
7440-28-0	Thallium	0.40	U		P
7440-62-2	Vanadium	26.3			P
7440-66-6	Zinc	40.7			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 11/18/2009

AECOM058 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-7 (44-46)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Lab Sample ID: 0911725-002

Level (low/med): LOW Date Received: 10/28/2009

% Solids: 79.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200		J	P
7440-36-0	Antimony	0.83	B	J	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	73.6			P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.19	B	J	P
7440-70-2	Calcium	13200		J	P
7440-47-3	Chromium	31.7			P
7440-48-4	Cobalt	14.0			P
7440-50-8	Copper	25.0			P
7439-89-6	Iron	27100			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	11900		J	P
7439-96-5	Manganese	500			P
7439-97-6	Mercury	0.021	U		CV
7440-02-0	Nickel	26.8			P
7440-09-7	Potassium	4460			P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U	NJ	P
7440-23-5	Sodium	1860			P
7440-28-0	Thallium	0.66	B	J	P
7440-62-2	Vanadium	41.8			P
7440-66-6	Zinc	62.0			P

Color Before: GREY Clarity Before: _____ Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments:

Date Reported 11/18/2009

AECOM058 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

FB-110409

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): WATER Lab Sample ID: 0912043-001

Level (low/med): LOW Date Received: 11/4/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	3.3	B	J	P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	3.0	U		P
7440-41-7	Beryllium	0.33	B	J	P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	61.3	B	J	P
7440-47-3	Chromium	0.54	B	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	0.83	U		P
7439-89-6	Iron	25.4	B	J	P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	6.5	U		P
7439-96-5	Manganese	0.70	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	38.8	B	J	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	9.2	U		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	2.7	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 11/18/2009

AECOM058 M13

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911469-001
ClientSample ID. : SB-3 (36-38)

Sample Information...
Type : Soil

Origin:

Collected : 10/20/2009 4:00:00 PM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99 058
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.56		1	mg/Kg-dry	SW9014	11/03/2009 12:23 PM
Percent Moisture	10.3		1	wt%	D2216	10/23/2009 8:45 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S200

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911469-002**
ClientSample ID. : SB-3 (46-48)

Sample Information...
Type : Soil

Origin:

Collected : 10/21/2009 9:30:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.67		1	mg/Kg-dry	SW9014	11/03/2009 12:24 PM
Percent Moisture	25.8		1	wt%	D2216	10/23/2009 8:46 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S201

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911469-003**
ClientSample ID. : SB-8 (24-26)

Sample Information...
Type : Soil

Origin:

Collected : 10/18/2009 11:30:00 AM
Received : 10/21/2009 5:32:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	0.75		2	mg/Kg-dry	SW9014	11/05/2009 11:13 AM
Percent Moisture	19.8		1	wt%	D2216	10/23/2009 8:47 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S202

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911584-001**
ClientSample ID. : **SB-17 (16-18)**

Sample Information...
Type : Soil

Origin:

Collected : 10/22/2009 10:00:00 AM
Received : 10/26/2009 4:30:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	11/04/2009 3:58 PM
Percent Moisture	19.4		1	wt%	D2216	10/29/2009 10:38 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S203

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911584-002
ClientSample ID. : SB-17 (36-38)

Sample Information...
Type : Soil

Origin:

Collected : 10/22/2009 10:30:00 AM
Received : 10/26/2009 4:30:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.57		1	mg/Kg-dry	SW9014	11/04/2009 3:59 PM
Percent Moisture	12.5		1	wt%	D2216	10/29/2009 10:44 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S204

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911584-003**
ClientSample ID. : **SB-17 (40-42)**

Sample Information...
Type : Soil

Origin:

Collected : 10/22/2009 11:00:00 AM
Received : 10/26/2009 4:30:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.61		1	mg/Kg-dry	SW9014	11/04/2009 4:00 PM
Percent Moisture	17.9		1	wt%	D2216	10/29/2009 10:45 AM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S205

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0911725-001**
ClientSample ID. : SB-7 (38-40)

Sample Information...
Type : Soil

Origin:

Collected : 10/27/2009 5:15:00 PM
Received : 10/28/2009 6:28:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.62		1	mg/Kg-dry	SW9014	11/04/2009 4:01 PM
Percent Moisture	19.0		1	wt%	D2216	11/02/2009 5:43 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S206

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0911725-002
ClientSample ID. : SB-7 (44-46)

Sample Information...
Type : Soil

Origin:

Collected : 10/27/2009 5:25:00 PM
Received : 10/28/2009 6:28:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.63		1	mg/Kg-dry	SW9014	11/04/2009 4:02 PM
Percent Moisture	20.7		1	wt%	D2216	11/02/2009 5:45 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S207

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0912043-001
ClientSample ID. : FB-110409

Sample Information...
Type : Field Blank

Origin:

Collected : 11/4/2009 8:00:00 AM
Received : 11/4/2009 4:25:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
Cyanide	< 10.0		1	µg/L	200	SW9014	11/10/2009 4:33 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/24/2009

AECOM058 S208

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C(23-25)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4478.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. 35.5 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	8	U J
75-71-8	Dichlorodifluoromethane	8	U J
74-83-9	Bromomethane	8	U
75-01-4	Vinyl chloride	8	U J
75-00-3	Chloroethane	8	U
75-09-2	Methylene chloride	10	B U J
67-64-1	Acetone	70	J
75-69-4	Trichlorofluoromethane	8	U
75-35-4	1,1-Dichloroethene	8	U J
75-15-0	Carbon disulfide	5	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8	U
75-34-3	1,1-Dichloroethane	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
79-20-9	Methyl Acetate	8	U J
78-93-3	2-Butanone	39	U J
71-55-6	1,1,1-Trichloroethane	8	U
156-60-5	trans-1,2-Dichloroethene	8	U
56-23-5	Carbon tetrachloride	8	U
1634-04-4	Methyl tert-butyl ether	8	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
156-59-2	cis-1,2-Dichloroethene	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U J
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U J
110-82-7	Cyclohexane	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-pentanone	39	U J
591-78-6	2-Hexanone	39	U J
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U

AECOM062 V25

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C(23-25)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4478.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. 35.5 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	8	U
108-88-3	Toluene	8	U J
108-90-7	Chlorobenzene	8	U J
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
108-38-3/106-42-3	m,p-Xylene	16	U
95-47-6	o-Xylene	8	U
106-93-4	1,2-Dibromoethane	8	U
98-82-8	Isopropylbenzene	8	U
541-73-1	1,3-Dichlorobenzene	8	U
106-46-7	1,4-Dichlorobenzene	8	U
95-50-1	1,2-Dichlorobenzene	8	U
96-12-8	1,2-Dibromo-3-chloropropane	8	U
120-82-1	1,2,4-Trichlorobenzene	8	U

AECOM062 V26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C(80-81.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4482.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. 13 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	57	U J
75-71-8	Dichlorodifluoromethane	57	U J
74-83-9	Bromomethane	57	U
75-01-4	Vinyl chloride	57	U J
75-00-3	Chloroethane	57	U
75-09-2	Methylene chloride	~~56~~ 57	B U J
67-64-1	Acetone	290	U J
75-69-4	Trichlorofluoromethane	57	U
75-35-4	1,1-Dichloroethene	57	U
75-15-0	Carbon disulfide	57	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	57	U
75-34-3	1,1-Dichloroethane	57	U
67-66-3	Chloroform	57	U
107-06-2	1,2-Dichloroethane	57	U
79-20-9	Methyl Acetate	57	U J
78-93-3	2-Butanone	290	U J
71-55-6	1,1,1-Trichloroethane	57	U
156-60-5	trans-1,2-Dichloroethene	57	U
56-23-5	Carbon tetrachloride	57	U
1634-04-4	Methyl tert-butyl ether	57	U
75-27-4	Bromodichloromethane	57	U
78-87-5	1,2-Dichloropropane	57	U
156-59-2	cis-1,2-Dichloroethene	57	U
10061-01-5	cis-1,3-Dichloropropene	57	U
79-01-6	Trichloroethene	57	U
124-48-1	Dibromochloromethane	57	U
79-00-5	1,1,2-Trichloroethane	57	U
71-43-2	Benzene	57	U
110-82-7	Cyclohexane	57	U
10061-02-6	trans-1,3-Dichloropropene	57	U
75-25-2	Bromoform	57	U
108-10-1	4-Methyl-2-pentanone	290	U J
591-78-6	2-Hexanone	290	U J
127-18-4	Tetrachloroethene	57	U
79-34-5	1,1,2,2-Tetrachloroethane	57	U

AECOM062 V31

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C(80-81.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4482.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. 13 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	57	U
108-88-3	Toluene	300	J
108-90-7	Chlorobenzene	57	U
100-41-4	Ethylbenzene	1200	
100-42-5	Styrene	5100	E
108-38-3/106-42-3	m,p-Xylene	5200	E
95-47-6	o-Xylene	3500	E
106-93-4	1,2-Dibromoethane	57	U
98-82-8	Isopropylbenzene	100	
541-73-1	1,3-Dichlorobenzene	57	U
106-46-7	1,4-Dichlorobenzene	57	U
95-50-1	1,2-Dichlorobenzene	57	U
96-12-8	1,2-Dibromo-3-chloropropane	57	U
120-82-1	1,2,4-Trichlorobenzene	57	U

upgrade

AECOM062 V32

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

1C(80-81.5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67486.D

Level: (low/med) MED Date Received: 11/20/09

% Moisture: not dec. 13 Date Analyzed: 11/30/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	720	U
75-71-8	Dichlorodifluoromethane	720	U
74-83-9	Bromomethane	720	U
75-01-4	Vinyl chloride	720	U
75-00-3	Chloroethane	720	U
75-09-2	Methylene chloride	720	U
67-64-1	Acetone	3600	U
75-69-4	Trichlorofluoromethane	720	U
75-35-4	1,1-Dichloroethene	720	U
75-15-0	Carbon disulfide	720	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	720	U
75-34-3	1,1-Dichloroethane	720	U
67-66-3	Chloroform	720	U
107-06-2	1,2-Dichloroethane	720	U
79-20-9	Methyl Acetate	720	U
78-93-3	2-Butanone	3600	U
71-55-6	1,1,1-Trichloroethane	720	U
156-60-5	trans-1,2-Dichloroethene	720	U
56-23-5	Carbon tetrachloride	720	U
1634-04-4	Methyl tert-butyl ether	720	U
75-27-4	Bromodichloromethane	720	U
78-87-5	1,2-Dichloropropane	720	U
156-59-2	cis-1,2-Dichloroethene	720	U
10061-01-5	cis-1,3-Dichloropropene	720	U
79-01-6	Trichloroethene	720	U
124-48-1	Dibromochloromethane	720	U
79-00-5	1,1,2-Trichloroethane	720	U
71-43-2	Benzene	720	U
110-82-7	Cyclohexane	720	U
10061-02-6	trans-1,3-Dichloropropene	720	U
75-25-2	Bromoform	720	U
108-10-1	4-Methyl-2-pentanone	3600	U
591-78-6	2-Hexanone	3600	U
127-18-4	Tetrachloroethene	720	U
79-34-5	1,1,2,2-Tetrachloroethane	720	U

DNR

DNR- do not report

AECOM062 V39

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C(80-81.5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67486.D

Level: (low/med) MED Date Received: 11/20/09

% Moisture: not dec. 13 Date Analyzed: 11/30/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-87-2	Methylcyclohexane	720	U
108-88-3	Toluene	920	D
108-90-7	Chlorobenzene	720	U
100-41-4	Ethylbenzene	3000	D
100-42-5	Styrene	16000	D
108-38-3/106-42-3	m,p-Xylene	16000	D
95-47-6	o-Xylene	9700	D
106-93-4	1,2-Dibromoethane	720	U
98-82-8	Isopropylbenzene	280	DJ
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
95-50-1	1,2-Dichlorobenzene	720	U
96-12-8	1,2-Dibromo-3-chloropropane	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U

DNR
report
DNR

DNR- do not report

AECOM062 V40

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1CDUP01 (112009)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4484.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not deo. 14.4 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	58	U J
75-71-8	Dichlorodifluoromethane	58	U J
74-83-9	Bromomethane	58	U
75-01-4	Vinyl chloride	58	U J
75-00-3	Chloroethane	58	U
75-09-2	Methylene chloride	~~57~~ 58	~~B~~ U J
67-64-1	Acetone	290	U J
75-69-4	Trichlorofluoromethane	58	U
75-35-4	1,1-Dichloroethene	58	U
75-15-0	Carbon disulfide	58	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58	U
75-34-3	1,1-Dichloroethane	58	U
67-66-3	Chloroform	58	U
107-06-2	1,2-Dichloroethane	58	U
79-20-9	Methyl Acetate	58	U J
78-93-3	2-Butanone	290	U J
71-55-6	1,1,1-Trichloroethane	58	U
156-60-5	trans-1,2-Dichloroethene	58	U
56-23-5	Carbon tetrachloride	58	U
1634-04-4	Methyl tert-butyl ether	58	U
75-27-4	Bromodichloromethane	58	U
78-87-5	1,2-Dichloropropane	58	U
156-59-2	cis-1,2-Dichloroethene	58	U
10061-01-5	cis-1,3-Dichloropropene	58	U
79-01-6	Trichloroethene	58	U
124-48-1	Dibromochloromethane	58	U
79-00-5	1,1,2-Trichloroethane	58	U
71-43-2	Benzene	58	U
110-82-7	Cyclohexane	58	U
10061-02-6	trans-1,3-Dichloropropene	58	U
75-25-2	Bromoform	58	U
108-10-1	4-Methyl-2-pentanone	290	U J
591-78-6	2-Hexanone	290	U J
127-18-4	Tetrachloroethene	58	U
79-34-5	1,1,2,2-Tetrachloroethane	58	U

AECOM062 V47

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1CDUP01 (112009)

Lab Name: H2M LABS, INC. Contraot: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4484.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. 14.4 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extraot Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	58	U
108-88-3	Toluene	120	J
108-90-7	Chlorobenzene	58	U
100-41-4	Ethylbenzene	670	J
100-42-5	Styrene	3800	E
108-38-3/106-42-3	m,p-Xylene	3300	
95-47-6	o-Xylene	2400	E
106-93-4	1,2-Dibromoethane	58	U
98-82-8	Isopropylbenzene	61	
541-73-1	1,3-Dichlorobenzene	58	U
106-46-7	1,4-Dichlorobenzene	58	U
95-50-1	1,2-Dichlorobenzene	58	U
96-12-8	1,2-Dibromo-3-chloropropane	58	U
120-82-1	1,2,4-Trichlorobenzene	58	U

report DL

AECOM062 V48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1CDUP01(112009)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67487.D

Level: (low/med) MED Date Received: 11/20/09

% Moisture: not dec. 14.4 Date Analyzed: 11/30/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	730	U
75-71-8	Dichlorodifluoromethane	730	U
74-83-9	Bromomethane	730	U
75-01-4	Vinyl chloride	730	U
75-00-3	Chloroethane	730	U
75-09-2	Methylene chloride	730	U
67-64-1	Acetone	3700	U
75-69-4	Trichlorofluoromethane	730	U
75-35-4	1,1-Dichloroethene	730	U
75-15-0	Carbon disulfide	730	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	730	U
75-34-3	1,1-Dichloroethane	730	U
67-66-3	Chloroform	730	U
107-06-2	1,2-Dichloroethane	730	U
79-20-9	Methyl Acetate	870	DB
78-93-3	2-Butanone	3700	U
71-55-6	1,1,1-Trichloroethane	730	U
156-60-5	trans-1,2-Dichloroethene	730	U
56-23-5	Carbon tetrachloride	730	U
1634-04-4	Methyl tert-butyl ether	730	U
75-27-4	Bromodichloromethane	730	U
78-87-5	1,2-Dichloropropane	730	U
156-59-2	cis-1,2-Dichloroethene	730	U
10061-01-5	cis-1,3-Dichloropropene	730	U
79-01-6	Trichloroethene	730	U
124-48-1	Dibromochloromethane	730	U
79-00-5	1,1,2-Trichloroethane	730	U
71-43-2	Benzene	730	U
110-82-7	Cyclohexane	730	U
10061-02-6	trans-1,3-Dichloropropene	730	U
75-25-2	Bromoform	730	U
108-10-1	4-Methyl-2-pentanone	3700	U
591-78-6	2-Hexanone	3700	U
127-18-4	Tetrachloroethene	730	U
79-34-5	1,1,2,2-Tetrachloroethane	730	U

DNR

DNR - do not report

AECOM062 V55

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1CDUP01(112009)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003ADL

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67487.D

Level: (low/med) MED Date Received: 11/20/09

% Moisture: not dec. 14.4 Date Analyzed: 11/30/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-87-2	Methylcyclohexane	730	U
108-88-3	Toluene	540	DJ
108-90-7	Chlorobenzene	730	U
100-41-4	Ethylbenzene	2300	D
100-42-5	Styrene	14000	~~D~~
108-38-3/106-42-3	m,p-Xylene	12000	~~D~~
95-47-6	o-Xylene	8500	~~D~~
106-93-4	1,2-Dibromoethane	730	U
98-82-8	Isopropylbenzene	730	U
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
96-12-8	1,2-Dibromo-3-chloropropane	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U

DNR, report DNR

DNR- do not report

AECOM062 V56

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C (98-100')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912704-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4481.D

Level: (low/med) LOW Date Received: 11/24/09

% Moisture: not dec. 28.6 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	7	U J
75-71-8	Dichlorodifluoromethane	7	U J
74-83-9	Bromomethane	7	U
75-01-4	Vinyl chloride	7	U J
75-00-3	Chloroethane	7	U
75-09-2	Methylene chloride	8	B U J
67-64-1	Acetone	60	J
75-69-4	Trichlorofluoromethane	7	U
75-35-4	1,1-Dichloroethene	7	U
75-15-0	Carbon disulfide	9	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7	U
75-34-3	1,1-Dichloroethane	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
79-20-9	Methyl Acetate	7	U J
78-93-3	2-Butanone	35	U J
71-55-6	1,1,1-Trichloroethane	7	U
156-60-5	trans-1,2-Dichloroethene	7	U
56-23-5	Carbon tetrachloride	7	U
1634-04-4	Methyl tert-butyl ether	7	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
156-59-2	cis-1,2-Dichloroethene	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	32	
110-82-7	Cyclohexane	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-pentanone	35	U
591-78-6	2-Hexanone	35	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U

AECOM062 V63

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1C (98-100')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912704-001A

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4481.D

Level: (low/med) LOW Date Received: 11/24/09

% Moisture: not dec. 28.6 Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
108-38-3/106-42-3	m,p-Xylene	14	U
95-47-6	o-Xylene	7	U
106-93-4	1,2-Dibromoethane	7	U
98-82-8	Isopropylbenzene	7	U
541-73-1	1,3-Dichlorobenzene	7	U
106-46-7	1,4-Dichlorobenzene	7	U
95-50-1	1,2-Dichlorobenzene	7	U
96-12-8	1,2-Dibromo-3-chloropropane	7	U
120-82-1	1,2,4-Trichlorobenzene	7	U

AECOM062 V64

1D

EPA SAMPLE NO.

(23-25)

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50855.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 35.5 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	510	U
100-52-7	Benzaldehyde	510	U
108-95-2	Phenol	510	U
111-44-4	Bis(2-chloroethyl)ether	510	U
95-57-8	2-Chlorophenol	510	U
95-48-7	2-Methylphenol	510	U
108-60-1	2,2´-oxybis(1-chloropropane)	510	U
98-86-2	Acetophenone	110	J
621-64-7	N-Nitroso-di-n-propylamine	510	U
67-72-1	Hexachloroethane	510	U
98-95-3	Nitrobenzene	510	U
78-59-1	Isophorone	510	U
88-75-5	2-Nitrophenol	510	U
105-67-9	2,4-Dimethylphenol	510	U
111-91-1	Bis(2-chloroethoxy)methane	510	U
120-83-2	2,4-Dichlorophenol	510	U
91-20-3	Naphthalene	330	J
106-47-8	4-Chloroaniline	510	U
87-68-3	Hexachlorobutadiene	510	U
105-60-2	Caprolactam	510	U
59-50-7	4-Chloro-3-methylphenol	510	U
91-57-6	2-Methylnaphthalene	200	J
77-47-4	Hexachlorocyclopentadiene	510	U
88-06-2	2,4,6-Trichlorophenol	510	U
95-95-4	2,4,5-Trichlorophenol	510	U
92-52-4	1,1´-Biphenyl	510	U
91-58-7	2-Chloronaphthalene	510	U
88-74-4	2-Nitroaniline	510	U
131-11-3	Dimethylphthalate	510	U
606-20-2	2,6-Dinitrotoluene	510	U
208-96-8	Acenaphthylene	510	U
99-09-2	3-Nitroaniline	510	U
83-32-9	Acenaphthene	510	U
51-28-5	2,4-Dinitrophenol	510	U
100-02-7	4-Nitrophenol	510	U
132-64-9	Dibenzofuran	510	U

AECOM062 B24

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(23-25)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50855.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 35.5 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	510	U
84-66-2	Diethylphthalate	510	U
86-73-7	Fluorene	510	U
7005-72-3	4-Chlorophenyl-phenylether	510	U
100-01-6	4-Nitroaniline	510	U
534-52-1	4,6-Dinitro-2-methylphenol	510	U
86-30-6	N-Nitrosodiphenylamine	510	U
101-55-3	4-Bromophenyl-phenylether	510	U
118-74-1	Hexachlorobenzene	510	U
1912-24-9	Atrazine	510	U
87-86-5	Pentachlorophenol	510	U
85-01-8	Phenanthrene	510	U
120-12-7	Anthracene	510	U
86-74-8	Carbazole	510	U
84-74-2	Di-n-butyl phthalate	510	U
206-44-0	Fluoranthene	510	U
129-00-0	Pyrene	510	U
85-68-7	Butyl benzyl phthalate	510	U
91-94-1	3,3'-Dichlorobenzidine	510	U
56-55-3	Benzo(a)anthracene	510	U
218-01-9	Chrysene	510	U
117-81-7	Bis(2-ethylhexyl)phthalate	510	U
117-84-0	Di-n-octyl phthalate	510	U
205-99-2	Benzo(b)fluoranthene	510	U
207-08-9	Benzo(k)fluoranthene	510	U
50-32-8	Benzo(a)pyrene	510	U
193-39-5	Indeno(1,2,3-cd)pyrene	510	U
53-70-3	Dibenzo(a,h)anthracene	510	U
191-24-2	Benzo(g,h,i)perylene	510	U

(1) Cannot be separated from Diphenylamine

AECOM062 B25

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(80-81.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50858.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 13 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	3800	U
100-52-7	Benzaldehyde	3800	U
108-95-2	Phenol	3800	U
111-44-4	Bis(2-chloroethyl)ether	3800	U
95-57-8	2-Chlorophenol	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	Bis(2-chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
91-20-3	Naphthalene	400000	E report 02
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	3800	U
91-57-6	2-Methylnaphthalene	250000	E report DX
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	3800	U
92-52-4	1,1'-Biphenyl	25000	
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethylphthalate	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
208-96-8	Acenaphthylene	60000	
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	8200	
51-28-5	2,4-Dinitrophenol	3800	U J
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	6100	

AECOM062 B30

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(80-81.5)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50858.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 13 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
86-73-7	Fluorene	46000	
7005-72-3	4-Chlorophenyl-phenylether	3800	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	100000	E
120-12-7	Anthracene	33000	
86-74-8	Carbazole	1000	J
84-74-2	Di-n-butyl phthalate	3800	U
206-44-0	Fluoranthene	32000	
129-00-0	Pyrene	45000	
85-68-7	Butyl benzyl phthalate	3800	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	20000	
218-01-9	Chrysene	19000	
117-81-7	Bis(2-ethylhexyl)phthalate	3800	U
117-84-0	Di-n-octyl phthalate	3800	U
205-99-2	Benzo(b)fluoranthene	9600	
207-08-9	Benzo(k)fluoranthene	7200	
50-32-8	Benzo(a)pyrene	15000	
193-39-5	Indeno(1,2,3-cd)pyrene	5200	
53-70-3	Dibenzo(a,h)anthracene	3200	J
191-24-2	Benzo(g,h,i)perylene	4400	

(1) Cannot be separated from Diphenylamine

report DL

AECOM062 B31

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

(80-81.5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50860.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 13 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	38000	U
100-52-7	Benzaldehyde	38000	U
108-95-2	Phenol	38000	U
111-44-4	Bis(2-chloroethyl)ether	38000	U
95-57-8	2-Chlorophenol	38000	U
95-48-7	2-Methylphenol	38000	U
108-60-1	2,2'-oxybis(1-chloropropane)	38000	U
98-86-2	Acetophenone	38000	U
621-64-7	N-Nitroso-di-n-propylamine	38000	U
67-72-1	Hexachloroethane	38000	U
98-95-3	Nitrobenzene	38000	U
78-59-1	Isophorone	38000	U
88-75-5	2-Nitrophenol	38000	U
105-67-9	2,4-Dimethylphenol	38000	U
111-91-1	Bis(2-chloroethoxy)methane	38000	U
120-83-2	2,4-Dichlorophenol	38000	U
91-20-3	Naphthalene	550000	~~U~~
106-47-8	4-Chloroaniline	38000	U
87-68-3	Hexachlorobutadiene	38000	U
105-60-2	Caprolactam	38000	U
59-50-7	4-Chloro-3-methylphenol	38000	U
91-57-6	2-Methylnaphthalene	310000	~~D~~
77-47-4	Hexachlorocyclopentadiene	38000	U
88-06-2	2,4,6-Trichlorophenol	38000	U
95-95-4	2,4,5-Trichlorophenol	38000	U
92-52-4	1,1'-Biphenyl	29000	DJ
91-58-7	2-Chloronaphthalene	38000	U
88-74-4	2-Nitroaniline	38000	U
131-11-3	Dimethylphthalate	38000	U
606-20-2	2,6-Dinitrotoluene	38000	U
208-96-8	Acenaphthylene	75000	D
99-09-2	3-Nitroaniline	38000	U
83-32-9	Acenaphthene	9200	DJ
51-28-5	2,4-Dinitrophenol	38000	U
100-02-7	4-Nitrophenol	38000	U
132-64-9	Dibenzofuran	38000	U

DNR

report DNR

report DNR

AECOM062-B46

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(80-81.5)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-002BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50860.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 13 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	38000	U
84-66-2	Diethylphthalate	38000	U
86-73-7	Fluorene	53000	D
7005-72-3	4-Chlorophenyl-phenylether	38000	U
100-01-6	4-Nitroaniline	38000	U
534-52-1	4,6-Dinitro-2-methylphenol	38000	U
86-30-6	N-Nitrosodiphenylamine	38000	U
101-55-3	4-Bromophenyl-phenylether	38000	U
118-74-1	Hexachlorobenzene	38000	U
1912-24-9	Atrazine	38000	U
87-86-5	Pentachlorophenol	38000	U
85-01-8	Phenanthrene	150000	D
120-12-7	Anthracene	41000	D
86-74-8	Carbazole	38000	U
84-74-2	Di-n-butyl phthalate	38000	U
206-44-0	Fluoranthene	44000	D
129-00-0	Pyrene	66000	D
85-68-7	Butyl benzyl phthalate	38000	U
91-94-1	3,3'-Dichlorobenzidine	38000	U
56-55-3	Benzo(a)anthracene	25000	DJ
218-01-9	Chrysene	24000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	38000	U
117-84-0	Di-n-octyl phthalate	38000	U
205-99-2	Benzo(b)fluoranthene	38000	U
207-08-9	Benzo(k)fluoranthene	38000	U
50-32-8	Benzo(a)pyrene	18000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	38000	U
53-70-3	Dibenzo(a,h)anthracene	38000	U
191-24-2	Benzo(g,h,i)perylene	38000	U

DNR, report DNR,

(1) Cannot be separated from Diphenylamine

AECOM062 B47

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP01 (112009)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50859.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 14.4 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFBX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q	
12-03-3	3-Methylphenol/4-Methylphenol	3900	U	
100-52-7	Benzaldehyde	3900	U	
108-95-2	Phenol	3900	U	
111-44-4	Bis(2-chloroethyl)ether	3900	U	
95-57-8	2-Chlorophenol	3900	U	
95-48-7	2-Methylphenol	3900	U	
108-60-1	2,2'-oxybis(1-chloropropane)	3900	U	
98-86-2	Acetophenone	3900	U	
621-64-7	N-Nitroso-di-n-propylamine	3900	U	
67-72-1	Hexachloroethane	3900	U	
98-95-3	Nitrobenzene	3900	U	
78-59-1	Isophorone	3900	U	
88-75-5	2-Nitrophenol	3900	U	
105-67-9	2,4-Dimethylphenol	3900	U	
111-91-1	Bis(2-chloroethoxy)methane	3900	U	
120-83-2	2,4-Dichlorophenol	3900	U	
91-20-3	Naphthalene	380000	E	report DL
106-47-8	4-Chloroaniline	3900	U	
87-68-3	Hexachlorobutadiene	3900	U	
105-60-2	Caprolactam	3900	U	
59-50-7	4-Chloro-3-methylphenol	3900	U	
91-57-6	2-Methylnaphthalene	230000	E	report DL
77-47-4	Hexachlorocyclopentadiene	3900	U	
88-06-2	2,4,6-Trichlorophenol	3900	U	
95-95-4	2,4,5-Trichlorophenol	3900	U	
92-52-4	1,1'-Biphenyl	22000		
91-58-7	2-Chloronaphthalene	3900	U	
88-74-4	2-Nitroaniline	3900	U	
131-11-3	Dimethylphthalate	3900	U	
606-20-2	2,6-Dinitrotoluene	3900	U	
208-96-8	Acenaphthylene	55000		
99-09-2	3-Nitroaniline	3900	U	
83-32-9	Acenaphthene	7600		
51-28-5	2,4-Dinitrophenol	3900	U	J
100-02-7	4-Nitrophenol	3900	U	
132-64-9	Dibenzofuran	5700		

AECOM062 B58

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

DUP01 (112009)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50859.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 14.4 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
86-73-7	Fluorene	40000	
7005-72-3	4-Chlorophenyl-phenylether	3900	U
100-01-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine	3900	U
101-55-3	4-Bromophenyl-phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
1912-24-9	Atrazine	3900	U
87-86-5	Pentachlorophenol	3900	U
85-01-8	Phenanthrene	93000	E report DL
120-12-7	Anthracene	30000	
86-74-8	Carbazole	920	J
84-74-2	Di-n-butyl phthalate	3900	U
206-44-0	Fluoranthene	30000	
129-00-0	Pyrene	39000	
85-68-7	Butyl benzyl phthalate	3900	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	18000	
218-01-9	Chrysene	17000	
117-81-7	Bis(2-ethylhexyl)phthalate	3900	U
117-84-0	Di-n-octyl phthalate	3900	U
205-99-2	Benzo(b)fluoranthene	8600	
207-08-9	Benzo(k)fluoranthene	6300	
50-32-8	Benzo(a)pyrene	13000	
193-39-5	Indeno(1,2,3-cd)pyrene	4000	
53-70-3	Dibenzo(a,h)anthracene	2300	J
191-24-2	Benzo(g,h,i)perylene	3300	J

(1) Cannot be separated from Diphenylamine

AECOM062 B59

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP01 (112009)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50861.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 14.4 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	39000	U
100-52-7	Benzaldehyde	39000	U
108-95-2	Phenol	39000	U
111-44-4	Bis(2-chloroethyl)ether	39000	U
95-57-8	2-Chlorophenol	39000	U
95-48-7	2-Methylphenol	39000	U
108-60-1	2,2'-oxybis(1-chloropropane)	39000	U
98-86-2	Acetophenone	39000	U
621-64-7	N-Nitroso-di-n-propylamine	39000	U
67-72-1	Hexachloroethane	39000	U
98-95-3	Nitrobenzene	39000	U
78-59-1	Isophorone	39000	U
88-75-5	2-Nitrophenol	39000	U
105-67-9	2,4-Dimethylphenol	39000	U
111-91-1	Bis(2-chloroethoxy)methane	39000	U
120-83-2	2,4-Dichlorophenol	39000	U
91-20-3	Naphthalene	520000	~~D~~
106-47-8	4-Chloroaniline	39000	U
87-68-3	Hexachlorobutadiene	39000	U
105-60-2	Caprolactam	39000	U
59-50-7	4-Chloro-3-methylphenol	39000	U
91-57-6	2-Methylnaphthalene	270000	~~D~~
77-47-4	Hexachlorocyclopentadiene	39000	U
88-06-2	2,4,6-Trichlorophenol	39000	U
95-95-4	2,4,5-Trichlorophenol	39000	U
92-52-4	1,1'-Biphenyl	25000	DJ
91-58-7	2-Chloronaphthalene	39000	U
88-74-4	2-Nitroaniline	39000	U
131-11-3	Dimethylphthalate	39000	U
606-20-2	2,6-Dinitrotoluene	39000	U
208-96-8	Acenaphthylene	65000	D
99-09-2	3-Nitroaniline	39000	U
83-32-9	Acenaphthene	8200	DJ
51-28-5	2,4-Dinitrophenol	39000	U
100-02-7	4-Nitrophenol	39000	U
132-64-9	Dibenzofuran	39000	U

DNR

report DNR

report DNR,

DNR - do not report

AECOM062 B74

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP01 (112009)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912584-003BDL

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50861.D

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: 14.4 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	39000	U
84-66-2	Diethylphthalate	39000	U
86-73-7	Fluorene	46000	D
7005-72-3	4-Chlorophenyl-phenylether	39000	U
100-01-6	4-Nitroaniline	39000	U
534-52-1	4,6-Dinitro-2-methylphenol	39000	U
86-30-6	N-Nitrosodiphenylamine	39000	U
101-55-3	4-Bromophenyl-phenylether	39000	U
118-74-1	Hexachlorobenzene	39000	U
1912-24-9	Atrazine	39000	U
87-86-5	Pentachlorophenol	39000	U
85-01-8	Phenanthrene	120000	D
120-12-7	Anthracene	34000	DJ
86-74-8	Carbazole	39000	U
84-74-2	Di-n-butyl phthalate	39000	U
206-44-0	Fluoranthene	37000	DJ
129-00-0	Pyrene	54000	D
85-68-7	Butyl benzyl phthalate	39000	U
91-94-1	3,3'-Dichlorobenzidine	39000	U
56-55-3	Benzo(a)anthracene	20000	DJ
218-01-9	Chrysene	18000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	39000	U
117-84-0	Di-n-octyl phthalate	39000	U
205-99-2	Benzo(b)fluoranthene	39000	U
207-08-9	Benzo(k)fluoranthene	10000	DJ
50-32-8	Benzo(a)pyrene	15000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	39000	U
53-70-3	Dibenzo(a,h)anthracene	39000	U
191-24-2	Benzo(g,h,i)perylene	39000	U

DNR

report DNR

(1) Cannot be separated from Diphenylamine

DNR - do not report

AECOM062 B75

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

(98-100')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912704-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50854.D

Level: (low/med) LOW Date Received: 11/24/09

% Moisture: 28.6 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	460	U
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	Bis(2-chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-chloropropane)	460	U
98-86-2	Acetophenone	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	Bis(2-chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	350	J
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	130	J
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	460	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	460	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	460	U
83-32-9	Acenaphthene	460	U
51-28-5	2,4-Dinitrophenol	460	U
100-02-7	4-Nitrophenol	460	U
132-64-9	Dibenzofuran	460	U

AECOM062 B85

1D

EPA SAMPLE NO.

(98-100')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: 0912704-001B

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50854.D

Level: (low/med) LOW Date Received: 11/24/09

% Moisture: 28.6 Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	460	U
534-52-1	4,6-Dinitro-2-methylphenol	460	U
86-30-6	N-Nitrosodiphenylamine	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	460	U
85-01-8	Phenanthrene	95	J
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butyl phthalate	460	U
206-44-0	Fluoranthene	460	U
129-00-0	Pyrene	460	U
85-68-7	Butyl benzyl phthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	Bis(2-ethylhexyl)phthalate	460	U
117-84-0	Di-n-octyl phthalate	460	U
205-99-2	Benzo(b)fluoranthene	460	U
207-08-9	Benzo(k)fluoranthene	460	U
50-32-8	Benzo(a)pyrene	460	U
193-39-5	Indeno(1,2,3-cd)pyrene	460	U
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) Cannot be separated from Diphenylamine

AECOM062 B86

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1C (23-25)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Lab Sample ID: 0912584-001

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 64.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2760		*E J	P
7440-36-0	Antimony	0.75	B	N J	P
7440-38-2	Arsenic	1.2	B	J	P
7440-39-3	Barium	10.0	B	J	P
7440-41-7	Beryllium	0.26	B	J	P
7440-43-9	Cadmium	0.064	B	J	P
7440-70-2	Calcium	2030		E J	P
7440-47-3	Chromium	7.3		*E J	P
7440-48-4	Cobalt	2.3	B	J	P
7440-50-8	Copper	7.6		E J	P
7439-89-6	Iron	4630		E J	P
7439-92-1	Lead	2.5			P
7439-95-4	Magnesium	1680		E J	P
7439-96-5	Manganese	77.2		N*E J	P
7439-97-6	Mercury	0.029	B	J	CV
7440-02-0	Nickel	5.5	B	J	P
7440-09-7	Potassium	595	B	E J	P
7782-49-2	Selenium	0.51	B	N J	P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	1350		E J	P
7440-28-0	Thallium	0.50	U		P
7440-62-2	Vanadium	11.3		E J	P
7440-66-6	Zinc	13.9		E J	P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: BLACK Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 12/16/2009

AECOM062 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1C (80-81.5)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Lab Sample ID: 0912584-002

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2660		*E J	P
7440-36-0	Antimony	0.25	U	N J	P
7440-38-2	Arsenic	0.26	U		P
7440-39-3	Barium	10.8	B	J	P
7440-41-7	Beryllium	0.14	B	J	P
7440-43-9	Cadmium	0.039	U		P
7440-70-2	Calcium	592		E J	P
7440-47-3	Chromium	4.7		*E J	P
7440-48-4	Cobalt	2.9	B	J	P
7440-50-8	Copper	7.1		E J	P
7439-89-6	Iron	6810		E J	P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	1320		E J	P
7439-96-5	Manganese	143		N*E J	P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	405	B	E J	P
7782-49-2	Selenium	0.29	U	N J	P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium	105	B	E J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	6.2		E J	P
7440-66-6	Zinc	14.0		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 12/16/2009

AECOM062 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1C DUP01 (112009)

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Lab Sample ID: 0912584-003

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2910		*E J	P
7440-36-0	Antimony	0.27	B	N J	P
7440-38-2	Arsenic	0.27	U		P
7440-39-3	Barium	17.8	B	J	P
7440-41-7	Beryllium	0.16	B	J	P
7440-43-9	Cadmium	0.040	U		P
7440-70-2	Calcium	773		E J	P
7440-47-3	Chromium	5.4		*E J	P
7440-48-4	Cobalt	3.0	B	J	P
7440-50-8	Copper	7.7		E J	P
7439-89-6	Iron	5960		E J	P
7439-92-1	Lead	2.1			P
7439-95-4	Magnesium	1420		E J	P
7439-96-5	Manganese	146		N*E J	P
7439-97-6	Mercury	0.019	U		CV
7440-02-0	Nickel	5.7			P
7440-09-7	Potassium	490	B	E J	P
7782-49-2	Selenium	0.29	U	N J	P
7440-22-4	Silver	0.097	U		P
7440-23-5	Sodium	138	B	E J	P
7440-28-0	Thallium	0.37	U		P
7440-62-2	Vanadium	6.1		E J	P
7440-66-6	Zinc	15.6		E J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 12/16/2009

AECOM062 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SB-1C (98-100')

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Lab Sample ID: 0912704-001

Level (low/med): LOW Date Received: 11/24/2009

% Solids: 71.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900		*E J	P
7440-36-0	Antimony	1.3	B	N J	P
7440-38-2	Arsenic	10.5			P
7440-39-3	Barium	40.7			P
7440-41-7	Beryllium	0.95			P
7440-43-9	Cadmium	0.047	U		P
7440-70-2	Calcium	4390		E J	P
7440-47-3	Chromium	38.5		*E J	P
7440-48-4	Cobalt	12.2			P
7440-50-8	Copper	18.1		E J	P
7439-89-6	Iron	37800		E J	P
7439-92-1	Lead	12.0			P
7439-95-4	Magnesium	7850		E J	P
7439-96-5	Manganese	395		N*E J	P
7439-97-6	Mercury	0.023	U		CV
7440-02-0	Nickel	22.8			P
7440-09-7	Potassium	4370		E J	P
7782-49-2	Selenium	0.35	U	N J	P
7440-22-4	Silver	0.13	B	J	P
7440-23-5	Sodium	1310		E J	P
7440-28-0	Thallium	1.4			P
7440-62-2	Vanadium	47.4		E J	P
7440-66-6	Zinc	75.8		E J	P

Color Before: BLACK Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: CLOUDY Artifacts:

Comments:

Date Reported 12/16/2009

AECOM062 M8

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0912584-001
ClientSample ID. : SB-1C (23-25)

Sample Information...
Type : Soil

Origin:

Collected : 11/18/2009 11:30:00 AM
Received : 11/20/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.78		1	mg/Kg-dry	SW9014	11/30/2009 4:43 PM
Percent Moisture	35.5		1	wt%	D2216	11/24/2009 2:48 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S70

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912584-002

ClientSample ID. : SB-1C (80-81.5)

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :11/20/2009 11:45:00 AM
Received :11/20/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/30/2009 4:46 PM
Percent Moisture	13.0		1	wt%	D2216	11/24/2009 2:50 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S71

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : **0912584-003**
ClientSample ID. : **SB-1C DUP01 (112009)**

Sample Information...
Type : Soil

Origin:

Collected :11/20/2009
Received :11/20/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/30/2009 4:47 PM
Percent Moisture	14.4		1	wt%	D2216	11/24/2009 2:51 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S72

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0912704-001
ClientSample ID. : SB-1C (98-100')

Sample Information...
Type : Soil

Origin:

Collected : 11/23/2009 10:50:00 AM
Received : 11/24/2009 4:05:00 PM
Collected By AECOM99
Copies To : Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.70		1	mg/Kg-dry	SW9014	11/30/2009 4:48 PM
Percent Moisture	28.6		1	wt%	D2216	11/25/2009 12:44 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S73

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67818.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V24

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67818.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V25

1F

EPA SAMPLE NO.

MW1A121409

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67818.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM063 V26

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67819.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	3	J
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	34	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	25	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	8	
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	120	
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V31

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67819.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	7	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	6	J
95-47-6	o-Xylene	6	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V32

1F

EPA SAMPLE NO.

MW1B121409

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67819.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene	16.84	25	J

AECOM063 V33

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67820.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	10	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	8	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	49	
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V46

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67820.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	8	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	13	
100-42-5	Styrene	19	
108-38-3/106-42-3	m,p-Xylene	67	
95-47-6	o-Xylene	32	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V47

1F

EPA SAMPLE NO.

MW1C121409

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67820.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (15.54)	15.54	66	J
2.		c3-subs_benzene (15.64)	15.64	74	J
3.		c3-subs_benzene (15.71)	15.71	21	J
4.		c3-subs_benzene (16.17)	16.17	33	J
5.		c3-subs_benzene (16.84)	16.84	250	J
6.		c4-subs_benzene (18.57)	18.57	41	J
7.		c4-subs_benzene (18.77)	18.77	72	J
8.	000090-12-0	Naphthalene, 1-methyl-	22.30	40	JN

AECOM063 V48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67816.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V67

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67816.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V68

1F

EPA SAMPLE NO.

TB121409

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67816.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM063 V69

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67817.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V74

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67817.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V75

1F

EPA SAMPLE NO.

SB121409

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67817.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not deo. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM063 V76

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67823.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	8	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	10	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	25	
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	9	
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	79	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	53	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	3000	E
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	110	
79-34-5	1,1,2,2-Tetrachloroethane	5	U

report DL

AECOM063 V8I

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67823.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q	
108-87-2	Methylcyclohexane	5	U	
108-88-3	Toluene	1100	E	report DL
108-90-7	Chlorobenzene	4	J	
100-41-4	Ethylbenzene	1200	E	report DL
100-42-5	Styrene	130		
108-38-3/106-42-3	m,p-Xylene	590	E	report DL
95-47-6	o-Xylene	510	E	report DL
106-93-4	1,2-Dibromoethane	5	U	
98-82-8	Isopropylbenzene	29		
541-73-1	1,3-Dichlorobenzene	5	U	
106-46-7	1,4-Dichlorobenzene	5	U	
95-50-1	1,2-Dichlorobenzene	5	U	
96-12-8	1,2-Dibromo-3-chloropropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	U	

AECOM063 V82

1F

EPA SAMPLE NO.

MW3C121509

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67823.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (14.87)	14.87	120	J
2.		c3-subs_benzene (14.91)	14.91	110	J
3.		c3-subs_benzene (15.53)	15.53	280	J
4.		c3-subs_benzene (15.64)	15.64	140	J
5.		c3-subs_benzene (16.16)	16.16	170	J
6.		c3-subs_benzene (16.51)	16.51	770	J
7.		c3-subs_benzene (16.84)	16.84	1700	J
8.		c4-subs_benzene (18.58)	18.58	170	J
9.		c4-subs_benzene (18.76)	18.76	210	J

AECOM063 V83

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67875.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene chloride	250	U
67-64-1	Acetone	1200	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
75-15-0	Carbon disulfide	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
75-34-3	1,1-Dichloroethane	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
79-20-9	Methyl Acetate	250	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
56-23-5	Carbon tetrachloride	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
156-59-2	cis-1,2-Dichloroethene	79	DJ
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	8900	~~D~~
110-82-7	Cyclohexane	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	170	DBJ
79-34-5	1,1,2,2-Tetrachloroethane	250	U

DNR

report DNR

DNR - do not report

AECOM063 V106

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67875.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-87-2	Methylcyclohexane	250	U	DNR
108-88-3	Toluene	2200	~~D~~	report
108-90-7	Chlorobenzene	250	U	DNR
100-41-4	Ethylbenzene	2200	~~D~~	report
100-42-5	Styrene	170	DJ	DNR
108-38-3/106-42-3	m,p-Xylene	830	~~D~~	report
95-47-6	o-Xylene	740	~~D~~	↓
106-93-4	1,2-Dibromoethane	250	U	DNR
98-82-8	Isopropylbenzene	250	U	
541-73-1	1,3-Dichlorobenzene	250	U	
106-46-7	1,4-Dichlorobenzene	250	U	
95-50-1	1,2-Dichlorobenzene	250	U	
96-12-8	1,2-Dibromo-3-chloropropane	250	U	
120-82-1	1,2,4-Trichlorobenzene	250	U	

DNR- do not report

AECOM063 V107

1F

EPA SAMPLE NO.

MW3C121509DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67875.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not deo. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (15.5)	15.50	340	JD
2.		c3-subs_benzene (16.47)	16.47	1100	JD
3.		c3-subs_benzene (16.8)	16.80	3800	JD
4.		c4-subs_benzene	18.74	260	JD

DNR

DNR - do not report

AECOM063 V108

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67840.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U J
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	120	
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

4

AECOM063 V122

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67840.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	3	J
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	69	
100-42-5	Styrene	1	J
108-38-3/106-42-3	m,p-Xylene	38	
95-47-6	o-Xylene	27	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	6	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V123

1F

EPA SAMPLE NO.

MW3A121609

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67840.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (14.85)	14.85	44	J
2.	c3-subs_benzene (15.51)	15.51	39	J
3.	c3-subs_benzene (16.14)	16.14	24	J
4.	c3-subs_benzene (16.48)	16.48	150	J
5.	c3-subs_benzene (16.81)	16.81	18	J
6.	c4-subs_benzene (18.56)	18.56	19	J
7.	c4-subs_benzene (18.74)	18.74	40	J
8. 000090-12-0	Naphthalene, 1-methyl-	22.26	52	JN

AECOM063 V124

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67833.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	54	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	13	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2300	E reported
110-82-7	Cyclohexane	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V142

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67833.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	960	E
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	52	
100-42-5	Styrene	160	
108-38-3/106-42-3	m,p-Xylene	430	E
95-47-6	o-Xylene	170	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

report DL

report DL

AECOM063 V143

1F

EPA SAMPLE NO.

MW4A121609

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67833.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		c3-subs_benzene (15.53)	15.53	110	J
2.	000271-89-6	Benzofuran	16.01	520	JN
3.		unknown nitrile	16.33	81	J
4.		c3-subs_benzene (16.84)	16.84	2100	J
5.		Benzofuran,methyl(isomer) (17.65)	17.65	91	J
6.		Benzofuran,methyl(isomer) (17.8)	17.80	160	J
7.		c4-subs_benzene	18.76	93	J
8.		Benzothiophene(isomer)	19.89	220	J

AECOM063 V144

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67870.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene chloride	250	U
67-64-1	Acetone	110	DJ
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
75-15-0	Carbon disulfide	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
75-34-3	1,1-Dichloroethane	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
79-20-9	Methyl Acetate	250	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
56-23-5	Carbon tetrachloride	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	5700	~~U~~
110-82-7	Cyclohexane	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U

DNR

report DNR

DNR - do not report

AECOM063 V164

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67870.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	250	U
108-88-3	Toluene	1900	~~D~~
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	54	DJ
100-42-5	Styrene	170	DJ
108-38-3/106-42-3	m,p-Xylene	510	~~D~~
95-47-6	o-Xylene	200	DJ
106-93-4	1,2-Dibromoethane	250	U
98-82-8	Isopropylbenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U

DNR report DNR report DNR

DNR- do not report

AECOM063 V165

1F

EPA SAMPLE NO.

MW4A121609DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67870.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	007446-09-5	Sulfur dioxide	3.37	340	BJND
2.	000271-89-6	Benzofuran	15.99	670	JND
3.		c3-subs_benzene	16.81	5700	JD
4.		Benzothiophene(isomer)	19.85	370	JD

DNR

DNR-do not report

AECOM063 V166

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67832.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	57	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	13	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2300	E report 10
110-82-7	Cyclohexane	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V179

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67832.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
108-87-2	Methylcyclohexane	5	U	
108-88-3	Toluene	960	E	report DL
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	49		
100-42-5	Styrene	160		
108-38-3/106-42-3	m,p-Xylene	420	E	report DL
95-47-6	o-Xylene	170		
106-93-4	1,2-Dibromoethane	5	U	
98-82-8	Isopropylbenzene	5	U	
541-73-1	1,3-Dichlorobenzene	5	U	
106-46-7	1,4-Dichlorobenzene	5	U	
95-50-1	1,2-Dichlorobenzene	5	U	
96-12-8	1,2-Dibromo-3-chloropropane	5	U	
120-82-1	1,2,4-Trichlorobenzene	5	U	

AECOM063 V180

1F

EPA SAMPLE NO.

MW4A121609D

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67832.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 9 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	c3-subs_benzene (15.52)	15.52	110	J
2. 000271-89-6	Benzofuran	16.01	540	JN
3.	unknown nitrile	16.32	88	J
4.	c3-subs_benzene (16.84)	16.64	2100	J
5.	Benzofuran,methyl(isomer) (17.65)	17.65	93	J
6.	Benzofuran,methyl(isomer) (17.81)	17.81	170	J
7.	c4-subs_benzene (18.57)	18.57	80	J
8.	c4-subs_benzene (18.77)	18.77	96	J
9.	Benzothiophene(isomer)	19.89	210	J

AECOM063 V181

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW4A121609DDL

Lab Name: H2M LABS, INC. Contraot: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67869.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Faotor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene chloride	250	U
67-64-1	Acetone	110	DJ
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
75-15-0	Carbon disulfide	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
75-34-3	1,1-Dichloroethane	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
79-20-9	Methyl Acetate	250	U
78-93-3	2-Butanone	92	DJ
71-55-6	1,1,1-Trichloroethane	250	U
156-60-5	trans-1,2-Diohloroethene	250	U
56-23-5	Carbon tetrachloride	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	5700	D
110-82-7	Cyclohexane	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U

DNR

report DNR

DNR - do not report

AECOM063 V202

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67869.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	250	U
108-88-3	Toluene	1900	~~D~~
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	56	DJ
100-42-5	Styrene	180	DJ
108-38-3/106-42-3	m,p-Xylene	500	~~D~~
95-47-6	o-Xylene	200	DJ
106-93-4	1,2-Dibromoethane	250	U
98-82-8	Isopropylbenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U

DNR report DNR ↓ report DNR ↓

DNR - do not report

AECOM063 V203

1F

EPA SAMPLE NO.

MW4A121609DDL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67869.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not deo. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	007446-09-5	Sulfur dioxide	3.37	520	BJND
2.	000271-89-6	Benzofuran	15.99	660	JND
3.		c3-subs_benzene	16.80	5700	JD
4.		Benzothiophene(isomer)	19.86	360	JD
5.	000090-12-0	Naphthalene, 1-methyl-	22.25	410	JND

DNR

DNR - do not report

AECOM063 V204

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67848.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U J
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V219

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67848.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM063 V220

1F

EPA SAMPLE NO.

TB121609

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67848.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	007446-09-5	Sulfur dioxide	3.38	20	BJN

AECOM063 V221

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51409.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U J
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U J
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM063 B48

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51409.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Deoanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM063 B49

1G

EPA SAMPLE NO.

MW1A121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51409.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/17/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (3.63)	3.63	3	J
2.	unknown (5.85)	5.85	4	J
3.	unknown (6.32)	6.32	3	J
4.	unknown (6.59)	6.59	5	J
5.	dimethylnitrobenzenamine isomer	11.25	10	J
6.	unknown (11.9)	11.90	2	J
7. 000301-02-0	9-Octadecenamide, (Z)-	14.48	5	BJN
8. 000112-84-5	Erucylamide	15.50	6	BJN

UJN
UJN

AECOM063 B50

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51410.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	2	J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM063 B64

1D

EPA SAMPLE NO.

MW1B121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51410.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	1	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM063 B65

1G

EPA SAMPLE NO.

MW1B121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51410.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/17/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 7 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q	
1.		C3 substituted benzene	4.57	5	J	
2.		C4 substituted benzene	5.62	2	J	
3.	056631-57-3	1H-Indenol	6.08	4	JN	
4.	000090-12-0	Naphthalene, 1-methyl-	7.08	3	JN	
5.		dimethylnitrobenzenamine isomer	11.24	7	J	
6.	000301-02-0	9-Octadecenamide, (Z)-	14.47	4	BdN	UJN
7.	000112-84-5	Erucylamide	15.49	6	BdN	UJN

AECOM063 B66

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51411.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
12-03-3	3-Methylphenol/4-Methylphenol	10	U	
100-52-7	Benzaldehyde	10	U J	
108-95-2	Phenol	10	U	
111-44-4	Bis(2-chloroethyl)ether	10	U	
95-57-8	2-Chlorophenol	10	U	
95-48-7	2-Methylphenol	10	U	
108-60-1	2,2'-oxybis(1-chloropropane)	10	U	
98-86-2	Acetophenone	10	U	
621-64-7	N-Nitroso-di-n-propylamine	10	U	
67-72-1	Hexachloroethane	10	U	
98-95-3	Nitrobenzene	10	U	
78-59-1	Isophorone	10	U	
88-75-5	2-Nitrophenol	10	U	
105-67-9	2,4-Dimethylphenol	10	U	
111-91-1	Bis(2-chloroethoxy)methane	10	U	
120-83-2	2,4-Dichlorophenol	10	U	
91-20-3	Naphthalene	320	E	report DL
106-47-8	4-Chloroaniline	10	U	
87-68-3	Hexachlorobutadiene	10	U	
105-60-2	Caprolactam	10	U J	
59-50-7	4-Chloro-3-methylphenol	10	U	
91-57-6	2-Methylnaphthalene	90	E	report DL
77-47-4	Hexachlorocyclopentadiene	10	U J	
88-06-2	2,4,6-Trichlorophenol	10	U	
95-95-4	2,4,5-Trichlorophenol	10	U	
92-52-4	1,1'-Biphenyl	7	J	
91-58-7	2-Chloronaphthalene	10	U	
88-74-4	2-Nitroaniline	10	U	
131-11-3	Dimethylphthalate	10	U	
606-20-2	2,6-Dinitrotoluene	10	U	
208-96-8	Acenaphthylene	33		
99-09-2	3-Nitroaniline	10	U	
83-32-9	Acenaphthene	7	J	
51-28-5	2,4-Dinitrophenol	10	U	
100-02-7	4-Nitrophenol	10	U	
132-64-9	Dibenzofuran	2	J	

AECOM063 B85

1D

EPA SAMPLE NO.

MW1C121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10479 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51411.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	7	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	2	J
86-74-8	Carbazole	5	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	2	J
129-00-0	Pyrene	2	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM063 B86

1G

EPA SAMPLE NO.

MW1C121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51411.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/17/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 15 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	C3 substituted benzene (3.97)	3.97	6	J
2.	C3 substituted benzene (4.01)	4.01	8	J
3.	C3 substituted benzene (4.39)	4.39	14	J
4.	C3 substituted benzene (4.57)	4.57	100	J
5.	C4 substituted benzene (5.47)	5.47	40	J
6.	C4 substituted benzene (5.53)	5.53	42	J
7. 000090-12-0	Naphthalene, 1-methyl-	7.11	5	JNY
8.	dimethyl naphthalene isomer (8.03)	8.03	8	J
9.	dimethyl naphthalene isomer (8.18)	8.18	11	J
10.	dimethyl naphthalene isomer (8.22)	8.22	5	J
11. 000827-54-3	Naphthalene, 2-ethenyl-	8.28	4	JN
12.	dimethyl naphthalene isomer (8.39)	8.39	4	J
13.	dimethylnitrobenzenamine isomer	11.25	10	J
14. 000301-02-0	9-Octadecenamide, (Z)-	14.47	8	BJN
15. 000112-84-5	Erucylamide	15.50	9	BJN

report DL

UJN
UJN

AECOM063 B87

1C

EPA SAMPLE NO.

MW1C121409DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51438.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/18/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	100	U
100-52-7	Benzaldehyde	100	U
108-95-2	Phenol	100	U
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2´-oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	510	~~D~~
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	100	~~D~~
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1´-Biphenyl	100	U
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	37	DJ
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	100	U

DNR

report DNR

report DNR

DNR- do not report

AECOM063 B119

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW1C121409DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51438.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/18/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	100	U
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	100	U
120-12-7	Anthracene	100	U
86-74-8	Carbazole	100	U
84-74-2	Di-n-butyl phthalate	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
85-68-7	Butyl benzyl phthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octyl phthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U

DNR

(1) Cannot be separated from Diphenylamine

DNR- donot report

AECOM063 B120

1G

EPA SAMPLE NO.

MW1C121409DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C61438.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/18/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		C3 substituted benzene	4.55	140	JD
2.	000090-12-0	Naphthalene, 1-methyl-	7.07	26	JND

DNR report

DNR - do not report

AECOM063 B121

1C

EPA SAMPLE NO.

MW3A121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51471.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/21/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	2	J
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	1	J
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	68	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	40	
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	6	J
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	28	J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	2	J

AECOM063 B132

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW3A121509

Lab Name: H2M LABS, INC. Contraot: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51471.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/21/09

Injection Volume: 2 (µL) Dilution Faotor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	22	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	33	
120-12-7	Anthracene	12	
86-74-8	Carbazole	1	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	7	J
129-00-0	Pyrene	7	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM063 B133

1G

EPA SAMPLE NO.

MW3A121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51471.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/21/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPE

CONCENTRATION UNITS:

Number TICs found: 17 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	C3 substituted benzene (3.95)	3.95	10	J
2.	C3 substituted benzene (3.99)	3.99	6	J
3.	C3 substituted benzene (4.37)	4.37	10	J
4. 000095-13-6	Indene	4.55	9	JN
5. 000090-12-0	Naphthalene, 1-methyl-	7.08	71	JN
6.	ethyl naphthalene isomer	7.88	5	J
7.	dimethyl naphthalene isomer (8)	8.00	15	J
8.	dimethyl naphthalene isomer (8.17)	8.17	20	J
9.	dimethyl naphthalene isomer (8.19)	8.19	6	J
10.	dimethyl naphthalene isomer (8.36)	8.36	7	J
11.	dimethyl naphthalene isomer (8.52)	8.52	5	J
12.	unknown PNA	9.62	5	J
13. 1000128-38-	Acenaphthenone	10.54	7	JN
14.	methyl-9H-fluorene isomer	10.88	5	J
15.	substituted PNA (12.55)	12.55	5	J
16.	substituted PNA (12.6)	12.60	5	J
17.	substituted PNA (12.72)	12.72	10	J

AECOM063 B134

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW3C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51474.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	44	J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	7	J
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	1800	E — report DL
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	260	E report DL
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	10	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	39	
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	20	
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	1	J

AECOM063 B167

1D

EPA SAMPLE NO.

MW3C121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51474.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	7	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	8	J
120-12-7	Anthracene	1	J
86-74-8	Carbazole	5	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM063 B168

1G

EPA SAMPLE NO.

MW3C121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51474.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/22/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 12 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000107-92-6	Butanoic acid	3.22	22	JN
2.	C3 substituted benzene (3.73)	3.73	57	J
3.	C3 substituted benzene (3.97)	3.97	140	J
4.	C3 substituted benzene (4.4)	4.40	140	J
5.	C3 substituted benzene (4.66)	4.66	1200	J
6.	~~methyl-1H-indene isomer (5.47)~~ C4 subst. benzene	5.47	270	J
7.	~~methyl-1H-indene isomer~~ (5.54) C4 subst. benzene	5.54	300	J
8. 000090-12-0	Naphthalene, 1-methyl-	7.11	260	JN
9. 000501-52-0	Benzenepropanoic acid	7.38	10	JN
10.	dimethyl naphthalene isomer (8.01)	8.01	9	J
11.	dimethyl naphthalene isomer (8.16)	8.16	11	J
12.	unknown (9.62)	9.62	9	J

1/6/09

AECOM063 B169

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3C121509DL

Lab Name: H2M LABS, INC. Contraot: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51483.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extraot Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Faotor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraotion: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	500	U
100-52-7	Benzaldehyde	500	U
108-95-2	Phenol	500	U
111-44-4	Bis(2-chloroethyl)ether	500	U
95-57-8	2-Chlorophenol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-chloropropane)	500	U
98-86-2	Acetophenone	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	Bis(2-chloroethoxy)methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
91-20-3	Naphthalene	2600	~~D~~
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
105-60-2	Caprolactam	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	160	~~D~~J
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	500	U
92-52-4	1,1'-Biphenyl	500	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethylphthalate	500	U
606-20-2	2,6-Dinitrotoluene	500	U
208-96-8	Acenaphthylene	500	U
99-09-2	3-Nitroaniline	500	U
83-32-9	Acenaphthene	500	U
51-28-5	2,4-Dinitrophenol	500	U
100-02-7	4-Nitrophenol	500	U
132-64-9	Dibenzofuran	500	U

DNR

report DNR

report DNR

DNR - do not report

AECOM063 B197

1D

EPA SAMPLE NO.

MW3C121509DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51483.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
86-73-7	Fluorene	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
100-01-6	4-Nitroaniline	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
86-30-6	N-Nitrosodiphenylamine	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
1912-24-9	Atrazine	500	U
87-86-5	Pentachlorophenol	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
86-74-8	Carbazole	500	U
84-74-2	Di-n-butyl phthalate	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
85-68-7	Butyl benzyl phthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
117-81-7	Bis(2-ethylhexyl)phthalate	500	U
117-84-0	Di-n-octyl phthalate	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

DNR

(1) Cannot be separated from Diphenylamine

DNR- do not report

AECOM063 B198

1G

EPA SAMPLE NO.

MW3C121509DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51483.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/22/09

Injection Volume: 2 (µl) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000107-92-6	Butanoic acid	2.90	330	JND
2.	C3 substituted benzene (4.13)	4.13	370	JD
3.	C3 substituted benzene	4.45	730	JD
4.	C3 substituted benzene (4.52)	4.52	2700	JD

DNR

LMS 1/6/09

DNR-do not report

AECOM063 B199

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51506.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q	
12-03-3	3-Methylphenol/4-Methylphenol	18000	E	report DL
100-52-7	Benzaldehyde	100	U J	
108-95-2	Phenol	24000	E	report DL
111-44-4	Bis(2-chloroethyl)ether	100	U	
95-57-8	2-Chlorophenol	100	U	
95-48-7	2-Methylphenol	13000	E	report DL
108-60-1	2,2'-oxybis(1-chloropropane)	100	U	
98-86-2	Acetophenone	100	U	
621-64-7	N-Nitroso-di-n-propylamine	100	U	
67-72-1	Hexachloroethane	100	U	
98-95-3	Nitrobenzene	100	U	
78-59-1	Isophorone	100	U	
88-75-5	2-Nitrophenol	100	U	
105-67-9	2,4-Dimethylphenol	6300	E	report DL
111-91-1	Bis(2-chloroethoxy)methane	100	U	
120-83-2	2,4-Dichlorophenol	100	U	
91-20-3	Naphthalene	11000	E	
106-47-8	4-Chloroaniline	100	U	
87-68-3	Hexachlorobutadiene	100	U	
105-60-2	Caprolactam	100	U J	
59-50-7	4-Chloro-3-methylphenol	100	U	
91-57-6	2-Methylnaphthalene	760		
77-47-4	Hexachlorocyclopentadiene	100	U J	
88-06-2	2,4,6-Trichlorophenol	100	U	
95-95-4	2,4,5-Trichlorophenol	100	U	
92-52-4	1,1'-Biphenyl	100	U	
91-58-7	2-Chloronaphthalene	100	U	
88-74-4	2-Nitroaniline	100	U	
131-11-3	Dimethylphthalate	100	U	
606-20-2	2,6-Dinitrotoluene	100	U	
208-96-8	Acenaphthylene	200		
99-09-2	3-Nitroaniline	100	U	
83-32-9	Acenaphthene	16	J	
51-28-5	2,4-Dinitrophenol	100	U	
100-02-7	4-Nitrophenol	100	U	
132-64-9	Dibenzofuran	120		

AECOM063 B213

EPA SAMPLE NO.

MW4A121609

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51506.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	120	
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	130	
120-12-7	Anthracene	39	J
86-74-8	Carbazole	650	
84-74-2	Di-n-butyl phthalate	100	U
206-44-0	Fluoranthene	30	J
129-00-0	Pyrene	18	J
85-68-7	Butyl benzyl phthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octyl phthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U

(1) Cannot be separated from Diphenylamine

AECOM063 B214

1G

EPA SAMPLE NO.

MW4A121609

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51506.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/23/09

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 16 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-86-1	Pyridine	2.39	2100	JNY
2.	methyl pyridine isomer (2.98)	2.98	1000	JY
3.	methyl pyridine isomer (3.32)	3.32	570	JY
4.	dimethyl pyridine isomer (3.45)	3.45	350	JY
5.	methyl pyridine isomer (3.68)	3.68	190	JY
6.	dimethyl pyridine isomer (3.72)	3.72	290	JY
7.	methyl pyridine isomer (4.06)	4.06	3000	JY
8.	C3 substituted benzene	4.55	860	JY
9.	methyl phenol isomer	4.84	260	JY
10.	unknown (5.98)	5.98	22	J Y
11.	Quinoline isomer (6.46)	6.46	200	JY
12.	Quinoline isomer (6.68)	6.68	56	JY
13.	unknown (6.98)	6.98	93	JY
14.	methyl quinoline isomer	7.10	45	JY
15.	unknown (8.91)	8.91	100	JY
16.	unknown (9.18)	9.18	110	JY
17.	Quinolinol isomer	11.39	200	JY

DNR

DNR - do not report

AECOM063 B215

1C

EPA SAMPLE NO.

MW4A121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51515.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/28/09

Injection Volume: 2 (µL) Dilution Factor: 1,000.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	23000	~~D~~
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	24000	~~D~~
111-44-4	Bis(2-chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	9200	~~DJ~~
108-60-1	2,2'-oxybis(1-chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	3700	~~DJ~~
111-91-1	Bis(2-chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	16000	~~D~~
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	10000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	10000	U
83-32-9	Acenaphthene	10000	U
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	10000	U

report DNR
report DNR
report DNR
report DNR
report DNR

DNR - do not report

AECOM063 B250

1D

EPA SAMPLE NO.

MW4A121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51515.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/28/09

Injection Volume: 2 (µL) Dilution Factor: 1,000.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butyl phthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butyl benzyl phthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	Bis(2-ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octyl phthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenzo(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

DNR

(1) Cannot be separated from Diphenylamine

DNR-donot report

AECOM063 B251

1G

EPA SAMPLE NO.

MW4A121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51515.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted:(Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/28/09

Injection Volume: 2 (µl) Dilution Factor: 1,000.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 11 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000110-86-1	Pyridine	2.37	18000	JND
2.		unknown	2.54	2200	JD
3.		methyl pyridine isomer (2.97)	2.97	14000	JD
4.		methyl pyridine isomer (3.32)	3.32	8400	JD
5.		dimethyl pyridine isomer (3.45)	3.45	4700	JD
6.		dimethyl pyridine isomer (3.75)	3.75	5100	JD
7.		trimethyl pyridine isomer	4.14	2600	JD
8.	000095-13-6	C3 substituted benzene	4.52	4000	JD
9.		dimethyl phenol isomer	5.54	3100	JD
10.	000091-22-5	Quinoline	6.27	5700	JND
11.	000120-72-9	unknown (6.82)	6.82	2800	JND
12.		Quinolinol isomer	10.82	2200	JD

report

AECOM063 B252

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00078.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U J
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U J
76-44-8	Heptachlor	0.050	U J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U J
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U J
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

AECOM063 PE17

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00079.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

AECOM063 PE23

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00080.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/16/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U J
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U J
76-44-8	Heptachlor	0.050	U J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	U J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U J
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U J
72-43-5	Methoxychlor	0.50	U J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

AECOM063 PE28

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00144.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/15/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	UJ
5103-74-2	gamma-chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	U

AECOM063 PE35

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW3C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00145.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/15/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U J
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U J
1024-57-3	Heptachlor epoxide	0.050	U J
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U J
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-chlordane	0.050	U J
5103-74-2	gamma-chlordane	0.050	U J
8001-35-2	Toxaphene	5.0	U

AECOM063 PE43

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00151.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.12	~~P~~ NJ
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	~~0.048~~ 0.05	~~PJ~~ UJ
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.24	~~P~~
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.18	~~P~~ NJ
1031-07-8	Endosulfan sulfate	0.093	J
50-29-3	4,4'-DDT	0.071	J
72-43-5	Methoxychlor	0.46	~~PJ~~ J
53494-70-5	Endrin ketone	~~0.068~~ 0.1	~~PJ~~ U
7421-93-4	Endrin aldehyde	~~0.064~~ 0.1	~~PJ~~ UJ
5103-71-9	alpha-chlordane	0.050	U
5103-74-2	gamma-chlordane	0.050	UJ
8001-35-2	Toxaphene	10	U

AECOM063 PE50

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00153.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/29/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.12	~~P~~ JN
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC	0.050	U
76-44-8	Heptachlor	~~0.048~~ 0.05	~~PJ~~ U
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4´-DDE	0.23	J
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4´-DDD	0.22	J J
1031-07-8	Endosulfan sulfate	~~0.096~~ 0.10	~~PJ~~ U
50-29-3	4,4´-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.093	~~PJ~~ J
7421-93-4	Endrin aldehyde	~~0.072~~ 0.1	~~PJ~~ U
5103-71-9	alpha-chlordane	0.050	UJ
5103-74-2	gamma-chlordane	0.050	UJ
8001-35-2	Toxaphene	10	U

AECOM063 PE59

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00243.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/17/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00244.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/17/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00245.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/15/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/17/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00260.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/15/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

AECOM063 P35

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

MW3C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00261.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/15/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/18/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00372.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00373.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/28/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U
37324-23-5	Aroclor 1262	1.0	U
11100-14-4	Aroclor 1268	1.0	U

1E

EPA SAMPLE NO.

HERBICIDE ORGANICS ANALYSIS DATA SHEET

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00045.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

AECOM063 H13

1E

EPA SAMPLE NO.

HERBICIDE ORGANICS ANALYSIS DATA SHEET

MW1B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00046.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW1C121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00047.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW3A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913450-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00048.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/15/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

AECOM063 H34

1E

EPA SAMPLE NO.

HERBICIDE ORGANICS ANALYSIS DATA SHEET

MW1A121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913341-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00045.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/14/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.50	U

1E

EPA SAMPLE NO.

HERBICIDE ORGANICS ANALYSIS DATA SHEET

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00052.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.50	U
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
~~94-82-6~~	~~2,4-DB~~	~~0.98~~	~~P~~

RSB 1/7/10

AECOM063 H49

1E

HERBICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: 0913485-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: a00053.raw

% Moisture: Decanted: (Y/N) N Date Received: 12/16/09

Extraction: (Type) SEPF Date Extracted: 12/18/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/06/10

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) µg/L	Q
94-75-7	2,4-D	0.67	~~J~~
93-72-1	2,4,5-TP (Silvex)	0.25	U
93-76-5	2,4,5-T	0.25	U
94-82-6	2,4-DB	0.94	~~J~~N

JB 1/7/10

AECOM063 H58

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW1A121409

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913341-001

Level (low/med): LOW Date Received: 12/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	422			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	6.1	B	J	P
7440-39-3	Barium	147	B	J	P
7440-41-7	Beryllium	0.28	B	J	P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	317000			P
7440-47-3	Chromium	1.4	B	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	11.2	B	J	P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	2570			P
7439-92-1	Lead	10			P
7439-95-4	Magnesium	21400			P
7439-96-5	Manganese	285			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.8	B	J	P
7440-09-7	Potassium	56900		J E	P
7782-49-2	Selenium	4.3	B	J N	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	245000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	6.6	B	J	P
7440-66-6	Zinc	54.1			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW1B121409

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913341-002

Level (low/med): LOW Date Received: 12/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.5	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	56.5	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	64500			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	2.2	B	J	P
7440-50-8	Copper	3.4	B	J	P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	2300			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	34200			P
7439-96-5	Manganese	2050			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	20.4	B	J	P
7440-09-7	Potassium	7780		J E	P
7782-49-2	Selenium	2.5	U	N	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	253000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	34.6			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW1C121409

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913341-003

Level (low/med): LOW Date Received: 12/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	81.7	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	67.8	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	98100			P
7440-47-3	Chromium	1.0	B	J	P
7440-48-4	Cobalt	2.8	B	J	P
7440-50-8	Copper	2.8	B	J	P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	4950			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	27400			P
7439-96-5	Manganese	8630			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.8	B	J	P
7440-09-7	Potassium	9390		J E	P
7782-49-2	Selenium	2.9	B	J N	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	178000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	16.0	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW3A121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913450-001

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	49.3			P
7440-39-3	Barium	144	~~B~~	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	283000			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.0	~~B~~	J	P
57-12-5	Cyanide	107			CA
7439-89-6	Iron	9620			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	58100			P
7439-96-5	Manganese	1080			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.1	~~B~~	J	P
7440-09-7	Potassium	34900		J,E	P
7782-49-2	Selenium	2.5	U	N	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	89900			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	14.1	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M8

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW3C121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913450-002

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	74.7	~~B~~	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	200			P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	113000			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.6	~~B~~	J	P
57-12-5	Cyanide	47.0			CA
7439-89-6	Iron	11000			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	56000			P
7439-96-5	Manganese	1350			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.8	~~B~~	J	P
7440-09-7	Potassium	17500		J ~~B~~	P
7782-49-2	Selenium	2.5	U	~~N~~	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	393000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	10.3	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW4A121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Lab Sample ID: 0913485-002

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	170	~~B~~	J	P
7440-36-0	Antimony	2.5	~~B~~	J	P
7440-38-2	Arsenic	65.1			P
7440-39-3	Barium	93.4	~~B~~	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	253000			P
7440-47-3	Chromium	0.73	~~B~~	J	P
7440-48-4	Cobalt	2.2	~~B~~	J	P
7440-50-8	Copper	4.6	~~B~~	J	P
57-12-5	Cyanide	408			CA
7439-89-6	Iron	718			P
7439-92-1	Lead	5.1			P
7439-95-4	Magnesium	90900			P
7439-96-5	Manganese	86.1			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.2	~~B~~	J	P
7440-09-7	Potassium	97500		J E	P
7782-49-2	Selenium	5.8		J N	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	192000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	4.7	~~B~~	J	P
7440-66-6	Zinc	22.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM063 M10

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : **0912584-002**

ClientSample ID. : **SB-1C (80-81.5)**

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected :11/20/2009 11:45:00 AM
Received :11/20/2009 4:55:00 PM
Collected By AECOM99 062 063
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/30/2009 4:46 PM
Percent Moisture	13.0		1	wt%	D2216	11/24/2009 2:50 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S71

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Lab No. : 0912584-003
ClientSample ID. : SB-1C DUP01 (112009)

Sample Information...
Type : Soil

Origin:

Collected : 11/20/2009
Received : 11/20/2009 4:55:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.58		1	mg/Kg-dry	SW9014	11/30/2009 4:47 PM
Percent Moisture	14.4		1	wt%	D2216	11/24/2009 2:51 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S72

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0912704-001

ClientSample ID. : SB-1C (98-100')

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Sample Information...
Type : Soil

Origin:

Collected : 11/23/2009 10:50:00 AM
Received : 11/24/2009 4:05:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 0.70		1	mg/Kg-dry	SW9014	11/30/2009 4:48 PM
Percent Moisture	28.6		1	wt%	D2216	11/25/2009 12:44 PM

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 12/15/2009

AECOM062 S73

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67824.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 / 200 *

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	190	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	6	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	26	
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	4700 ~~2300~~	~~E~~
110-82-7	Cyclohexane	3	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	3	J
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S52

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67824.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	2	J
108-88-3	Toluene	140	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	190	
100-42-5	Styrene	18	
108-38-3/106-42-3	m,p-Xylene	82	
95-47-6	o-Xylene	61	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	7	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S53

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4B121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67853.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 200.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	1000	U
75-71-8	Dichlorodifluoromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene chloride	1000	U
67-64-1	Acetone	5000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-15-0	Carbon disulfide	1000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U
75-34-3	1,1-Dichloroethane	1000	U
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
79-20-9	Methyl Acetate	1000	U
78-93-3	2-Butanone	5000	U
71-55-6	1,1,1-Trichloroethane	1000	U
156-60-5	trans-1,2-Dichloroethene	1000	U
56-23-5	Carbon tetrachloride	1000	U
1634-04-4	Methyl tert-butyl ether	1000	U
75-27-4	Bromodichloromethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
79-01-6	Trichloroethene	1000	U
124-48-1	Dibromochloromethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
71-43-2	Benzene	4700	D
110-82-7	Cyclohexane	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-pentanone	5000	U
591-78-6	2-Hexanone	5000	U
127-18-4	Tetrachloroethene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U

AECOM064 S54

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4B121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67853.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 200.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	1000	U
108-88-3	Toluene	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U
100-42-5	Styrene	1000	U
108-38-3/106-42-3	m,p-Xylene	2000	U
95-47-6	o-Xylene	1000	U
106-93-4	1,2-Dibromoethane	1000	U
98-82-8	Isopropylbenzene	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-Trichlorobenzene	1000	U

AECOM064 S55

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67825.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 /10X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	1500 ~~1100~~	~~E~~
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	850 ~~200~~ ~~690~~	~~E~~
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	63	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	190	
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S56

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67825.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	39	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	170	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	33	
95-47-6	o-Xylene	19	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	45	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S57

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67854.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene chloride	50	U
67-64-1	Acetone	250	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon disulfide	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
79-20-9	Methyl Acetate	50	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	50	U
156-60-5	trans-1,2-Dichloroethene	1500	D
56-23-5	Carbon tetrachloride	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	850	D
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	61	D
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	200	D
110-82-7	Cyclohexane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U

CLM 1/30/10

AECOM064 S58

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67854.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	50	U
108-88-3	Toluene	40	DJ
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	180	D
100-42-5	Styrene	50	U
108-38-3/106-42-3	m,p-Xylene	34	DJ
95-47-6	o-Xylene	19	DJ
106-93-4	1,2-Dibromoethane	50	U
98-82-8	Isopropylbenzene	42	DJ
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

AECOM064 S59

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67826.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 / 10X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	1400 ~~1000~~	~~E~~
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	830 ~~660~~	~~E~~
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	58	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	190	
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S60

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67826.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	42	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	160	
100-42-5	Styrene	3	J
108-38-3/106-42-3	m,p-Xylene	34	
95-47-6	o-Xylene	18	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	42	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S61

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67855.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene chloride	50	U
67-64-1	Acetone	250	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon disulfide	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
79-20-9	Methyl Acetate	50	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	50	U
156-60-5	trans-1,2-Dichloroethene	1400	D
56-23-5	Carbon tetrachloride	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	830	D
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	53	D
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	200	D
110-82-7	Cyclohexane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U

AECOM064 S62

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67855.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	50	U
108-88-3	Toluene	44	DJ
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	170	D
100-42-5	Styrene	50	U
108-38-3/106-42-3	m,p-Xylene	35	DJ
95-47-6	o-Xylene	19	DJ
106-93-4	1,2-Dibromoethane	50	U
98-82-8	Isopropylbenzene	38	DJ
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

AECOM064 S63

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67827.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	3	J
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	1	J
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S64

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67827.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S65

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67828.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	~~3~~ 5	~~J~~ U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	70	
110-82-7	Cyclohexane	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S66

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67828.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	6	
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	3	J
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S67

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67829.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 /100X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5 ~~3~~	~~J~~ U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	4	J
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	6	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	4700 ~~3300~~	~~E~~
110-82-7	Cyclohexane	2	J
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S68

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67829.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	2	J
108-88-3	Toluene	35	
108-90-7	Chlorobenzene	4	J
100-41-4	Ethylbenzene	1800 ~~1100~~	~~E~~
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	930 ~~630~~	~~E~~ J
95-47-6	o-Xylene	750 ~~520~~	~~E~~
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	54	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S69

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7B121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67865.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl chloride	500	U
75-00-3	Chloroethane	500	U
75-09-2	Methylene chloride	500	U
67-64-1	Acetone	2500	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	500	U
75-15-0	Carbon disulfide	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
79-20-9	Methyl Acetate	500	U
78-93-3	2-Butanone	2500	U
71-55-6	1,1,1-Trichloroethane	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
56-23-5	Carbon tetrachloride	500	U
1634-04-4	Methyl tert-butyl ether	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
156-59-2	cis-1,2-Dichloroethene	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	9700	D
110-82-7	Cyclohexane	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-pentanone	2500	U
591-78-6	2-Hexanone	2500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

AECOM064 S70

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7B121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67865.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	500	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	1800	D
100-42-5	Styrene	500	U
108-38-3/106-42-3	m,p-Xylene	930	DJ
95-47-6	o-Xylene	750	D
106-93-4	1,2-Dibromoethane	500	U
98-82-8	Isopropylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U

AECOM064 S71

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67849.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	UJ
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S72

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-007A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67849.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S73

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67841.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	UJ
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	83	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	63	
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	5	J
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S74

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67841.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	21	
108-90-7	Chlorobenzene	3	J
100-41-4	Ethylbenzene	62	
100-42-5	Styrene	5	
108-38-3/106-42-3	m,p-Xylene	180	
95-47-6	o-Xylene	110	
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	4	J
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S75

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67842.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 /50X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	UJ
75-01-4	Vinyl chloride	28	
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	4	J
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	89	
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	1600 ~~1100~~	~~E~~
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	18	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	4000 ~~1500~~	~~E~~
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	6	
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S76

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67842.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	730 ~~480~~	~~E~~
108-90-7	Chlorobenzene	1	J
100-41-4	Ethylbenzene	990 ~~650~~	~~E~~
100-42-5	Styrene	13	
108-38-3/106-42-3	m,p-Xylene	650 ~~440~~	~~E~~
95-47-6	o-Xylene	430 ~~310~~	~~E~~
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	60	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S77

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67864.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene chloride	250	U
67-64-1	Acetone	1200	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
75-15-0	Carbon disulfide	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
75-34-3	1,1-Dichloroethane	250	U
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
79-20-9	Methyl Acetate	250	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	250	U
156-60-5	trans-1,2-Dichloroethene	95	DJ
56-23-5	Carbon tetrachloride	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
156-59-2	cis-1,2-Dichloroethene	1600	D
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	250	U
124-48-1	Dibromochloromethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
71-43-2	Benzene	4000	D
110-82-7	Cyclohexane	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	82	DBJ
79-34-5	1,1,2,2-Tetrachloroethane	250	U

AECOM064 S78

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67864.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 50.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	250	U
108-88-3	Toluene	730	D
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	990	D
100-42-5	Styrene	250	U
108-38-3/106-42-3	m,p-Xylene	650	D
95-47-6	o-Xylene	430	D
106-93-4	1,2-Dibromoethane	250	U
98-82-8	Isopropylbenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U

AECOM064 S79

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67843.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 /10X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	~~2~~	~~J~~ U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U J
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	240 ~~220~~	~~E~~
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S80

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67843.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	16	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	760 ~~540~~	~~E~~
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	390	
95-47-6	o-Xylene	340 ~~260~~	~~E~~
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	46	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S81

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5A121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67866.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene chloride	50	U
67-64-1	Acetone	250	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon disulfide	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
79-20-9	Methyl Acetate	50	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	50	U
156-60-5	trans-1,2-Dichloroethene	50	U
56-23-5	Carbon tetrachloride	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	260	D
110-82-7	Cyclohexane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U

AECOM064 S82

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5A121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67866.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	50	U
108-88-3	Toluene	16	DJ
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	760	D
100-42-5	Styrene	50	U
108-38-3/106-42-3	m,p-Xylene	530	D
95-47-6	o-Xylene	340	D
106-93-4	1,2-Dibromoethane	50	U
98-82-8	Isopropylbenzene	55	D
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

AECOM064 S83

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67844.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 / 100X

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5 ~~2~~	~~J~~ U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U J
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	21	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	3	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	1900 D ~~4200~~	~~E~~
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S84

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67844.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	9000 ~~2200~~	~~E~~
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1300 ~~780~~	~~E~~
100-42-5	Styrene	1900 ~~790~~	~~E~~
108-38-3/106-42-3	m,p-Xylene	2600 ~~1200~~	~~E~~
95-47-6	o-Xylene	1300 ~~600~~	~~E~~
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	14	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S85

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67867.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	500	U
75-71-8	Dichlorodifluoromethane	500	U
74-83-9	Bromomethane	500	U
75-01-4	Vinyl chloride	500	U
75-00-3	Chloroethane	500	U
75-09-2	Methylene chloride	500	U
67-64-1	Acetone	2500	U
75-69-4	Trichlorofluoromethane	500	U
75-35-4	1,1-Dichloroethene	500	U
75-15-0	Carbon disulfide	500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
75-34-3	1,1-Dichloroethane	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
79-20-9	Methyl Acetate	500	U
78-93-3	2-Butanone	2500	U
71-55-6	1,1,1-Trichloroethane	500	U
156-60-5	trans-1,2-Dichloroethene	500	U
56-23-5	Carbon tetrachloride	500	U
1634-04-4	Methyl tert-butyl ether	500	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
156-59-2	cis-1,2-Dichloroethene	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	19000	D
110-82-7	Cyclohexane	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-pentanone	2500	U
591-78-6	2-Hexanone	2500	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U

AECOM064 S86

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67867.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 100.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	500	U
108-88-3	Toluene	9000	D
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	1300	D
100-42-5	Styrene	1900	D
108-38-3/106-42-3	m,p-Xylene	2600	D
95-47-6	o-Xylene	1300	D
106-93-4	1,2-Dibromoethane	500	U
98-82-8	Isopropylbenzene	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
96-12-8	1,2-Dibromo-3-chloropropane	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U

AECOM064 S87

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW1121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67845.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00 / 10 ✗

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5 ~~2~~	~~J~~ U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U J
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	54	
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	79	
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	410 ~~300~~	~~E~~
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	950 ~~610~~	~~E~~
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	340 ~~230~~	~~E~~
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S88

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW1121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67845.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	930 ~~550~~	~~E~~
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	550 ~~400~~	~~E~~
100-42-5	Styrene	710 ~~400~~	~~E~~
108-38-3/106-42-3	m,p-Xylene	910 ~~570~~	~~E~~
95-47-6	o-Xylene	640 ~~380~~	~~E~~
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	43	
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S89

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW1121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67868.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
75-71-8	Dichlorodifluoromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene chloride	50	U
67-64-1	Acetone	250	U
75-69-4	Trichlorofluoromethane	50	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon disulfide	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U
75-34-3	1,1-Dichloroethane	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
79-20-9	Methyl Acetate	50	U
78-93-3	2-Butanone	97	DJ
71-55-6	1,1,1-Trichloroethane	50	U
156-60-5	trans-1,2-Dichloroethene	65	D
56-23-5	Carbon tetrachloride	50	U
1634-04-4	Methyl tert-butyl ether	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	88	D
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	410	D
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	950	D
110-82-7	Cyclohexane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	340	DB
79-34-5	1,1,2,2-Tetrachloroethane	50	U

AECOM064 S90

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW1121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005ADL

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67868.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	50	U
108-88-3	Toluene	930	D
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	550	D
100-42-5	Styrene	710	D
108-38-3/106-42-3	m,p-Xylene	910	D
95-47-6	o-Xylene	640	D
106-93-4	1,2-Dibromoethane	50	U
98-82-8	Isopropylbenzene	55	D
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U

AECOM064 S91

1C

EPA SAMPLE NO.

MW6B121409

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51412.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	UJ
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	UJ
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM064 S93

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW6B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51412.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/17/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S94

1C

EPA SAMPLE NO.

MW4B121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51475.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 100

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	1300 ~~530~~	~~E~~ J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	810 ~~550~~	~~E~~
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	600 ~~460~~	~~E~~ J
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	600 ~~500~~	~~E~~
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	4100 ~~2300~~	~~E~~
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	220	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	18	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	60	
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	38	

AECOM064 S95

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51475.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	46	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	61	
120-12-7	Anthracene	15	
86-74-8	Carbazole	170 ~~150~~	~~E~~ J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	11	
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	3	J
218-01-9	Chrysene	2	J
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	2	J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	2	J
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S96

1C

EPA SAMPLE NO.

MW4B121509DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51484.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	1300	D
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	810	DJ
111-44-4	Bis(2-chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	600	DJ
108-60-1	2,2'-oxybis(1-chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	600	DJ
111-91-1	Bis(2-chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	4100	D
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1000	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	1000	U

report original

AECOM064 S97

1D

EPA SAMPLE NO.

MW4B121509DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-001BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51484.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	1000	U
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	170	DJ
84-74-2	Di-n-butyl phthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butyl benzyl phthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	Bis(2-ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octyl phthalate	1000	U
205-99-2	Benzo(b)fluoranthene	1000	U
207-08-9	Benzo(k)fluoranthene	1000	U
50-32-8	Benzo(a)pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000	U
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	1000	U

(1) Cannot be separated from Diphenylamine

AECOM064 S98

1C

EPA SAMPLE NO.

MW4C121509

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51476.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 /50

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	19	J
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	21	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	16	
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	UJ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	UJ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	1900 ~~1200~~	~~E~~ J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	UJ
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	150	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	15	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	UJ
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	58	
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	130 ~~110~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	36	

AECOM064 S99

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4C121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51476.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	44	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	66	
120-12-7	Anthracene	13	
86-74-8	Carbazole	72	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	8	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S100

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51485.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	500	U
100-52-7	Benzaldehyde	500	U
108-95-2	Phenol	500	U
111-44-4	Bis(2-chloroethyl)ether	500	U
95-57-8	2-Chlorophenol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2´-oxybis(1-chloropropane)	500	U
98-86-2	Acetophenone	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	Bis(2-chloroethoxy)methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
91-20-3	Naphthalene	1900	D
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
105-60-2	Caprolactam	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	95	DJ
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	500	U
92-52-4	1,1´-Biphenyl	500	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethylphthalate	500	U
606-20-2	2,6-Dinitrotoluene	500	U
208-96-8	Acenaphthylene	59	DJ
99-09-2	3-Nitroaniline	500	U
83-32-9	Acenaphthene	120	DJ
51-28-5	2,4-Dinitrophenol	500	U
100-02-7	4-Nitrophenol	500	U
132-64-9	Dibenzofuran	500	U

report original

AECOM064 S101

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4C121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51485.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
86-73-7	Fluorene	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
100-01-6	4-Nitroaniline	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
86-30-6	N-Nitrosodiphenylamine	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
1912-24-9	Atrazine	500	U
87-86-5	Pentachlorophenol	500	U
85-01-8	Phenanthrene	81	DJ
120-12-7	Anthracene	500	U
86-74-8	Carbazole	74	DJ
84-74-2	Di-n-butyl phthalate	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
85-68-7	Butyl benzyl phthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
117-81-7	Bis(2-ethylhexyl)phthalate	500	U
117-84-0	Di-n-octyl phthalate	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) Cannot be separated from Diphenylamine

AECOM064 S102

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4C121509D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51477.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	29	J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	27	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	19	
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	1300 ~~830~~	~~E~~ J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	120	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	14	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	55	
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	120 ~~97~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	36	

AECOM064 S103

1D

EPA SAMPLE NO.

MW4C121509D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51477.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	43	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	65	
120-12-7	Anthracene	13	
86-74-8	Carbazole	75	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	8	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S104

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW4C121509DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51486.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	200	U
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	28	DJ
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	1300	D
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	99	DJ
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	200	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	63	DJ
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	120	DJ
51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U
132-64-9	Dibenzofuran	41	DJ

repeat original

AECOM064 S105

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW4C121509DDL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51486.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	51	DJ
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
86-30-6	N-Nitrosodiphenylamine	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	78	DJ
120-12-7	Anthracene	200	U
86-74-8	Carbazole	84	DJ
84-74-2	Di-n-butyl phthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butyl benzyl phthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	U
117-84-0	Di-n-octyl phthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U

(1) Cannot be separated from Diphenylamine

AECOM064 S106

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51478.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	UJ
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	UJ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	UJ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	UJ
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	UJ
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM064 S107

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW6A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51478.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S108

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW7A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51479.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	16	
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	4	J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	1	J
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	13	
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	2	J

AECOM064 S109

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW7A121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51479.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	4	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	6	J
120-12-7	Anthracene	2	J
86-74-8	Carbazole	3	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	2	J
129-00-0	Pyrene	2	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S110

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51480.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 200X

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	9	J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	68	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	680 D ~~4200~~	~~E~~
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	1000	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	38	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	2	J
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	120	~~E~~ J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	7	J

AECOM064 S111

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW7B121509

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51480.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	40	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	53	
120-12-7	Anthracene	8	J
86-74-8	Carbazole	22	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	4	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S112

1C

EPA SAMPLE NO.

MW7B121509DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51487.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	2000	U
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	6800	D
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	660	DJ
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	2000	U

report original

report original

AECOM064 S113

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW7B121509DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913464-006BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51487.D

Level: (low/med) LOW Date Received: 12/15/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butyl phthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butyl benzyl phthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octyl phthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U

(1) Cannot be separated from Diphenylamine

AECOM064 S114

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW2A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51491.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	3	J
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U J
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	1	J
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	4	J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM064 S115

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW2A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-001B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51491.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	13	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	4	J
120-12-7	Anthracene	4	J
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	4	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S116

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51492.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 50 X

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	6	J
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U J
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	2200 ~~1400~~	~~E~~
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	330	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	29	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	7	J
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	140 ~~110~~	~~E~~ J
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	7	J

AECOM064 S117

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW2B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51492.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	42	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	53	
120-12-7	Anthracene	8	J
86-74-8	Carbazole	15	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	6	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S118

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW2B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51508.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	500	U
100-52-7	Benzaldehyde	500	U
108-95-2	Phenol	500	U
111-44-4	Bis(2-chloroethyl)ether	500	U
95-57-8	2-Chlorophenol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2´-oxybis(1-chloropropane)	500	U
98-86-2	Acetophenone	500	U
621-64-7	N-Nitroso-di-n-propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	Bis(2-chloroethoxy)methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
91-20-3	Naphthalene	2200	D
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
105-60-2	Caprolactam	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	230	DJ
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	500	U
92-52-4	1,1´-Biphenyl	500	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethylphthalate	500	U
606-20-2	2,6-Dinitrotoluene	500	U
208-96-8	Acenaphthylene	500	U
99-09-2	3-Nitroaniline	500	U
83-32-9	Acenaphthene	140	DJ
51-28-5	2,4-Dinitrophenol	500	U
100-02-7	4-Nitrophenol	500	U
132-64-9	Dibenzofuran	500	U

repeat original

AECOM064 S119

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW2B121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-002BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51508.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
86-73-7	Fluorene	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
100-01-6	4-Nitroaniline	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
86-30-6	N-Nitrosodiphenylamine	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
1912-24-9	Atrazine	500	U
87-86-5	Pentachlorophenol	500	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
86-74-8	Carbazole	500	U
84-74-2	Di-n-butyl phthalate	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
85-68-7	Butyl benzyl phthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	500	U
218-01-9	Chrysene	500	U
117-81-7	Bis(2-ethylhexyl)phthalate	500	U
117-84-0	Di-n-octyl phthalate	500	U
205-99-2	Benzo(b)fluoranthene	500	U
207-08-9	Benzo(k)fluoranthene	500	U
50-32-8	Benzo(a)pyrene	500	U
193-39-5	Indeno(1,2,3-cd)pyrene	500	U
53-70-3	Dibenzo(a,h)anthracene	500	U
191-24-2	Benzo(g,h,i)perylene	500	U

(1) Cannot be separated from Diphenylamine

AECOM064 S120

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW5A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51493.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 10X

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	UJ
100-52-7	Benzaldehyde	10	UJ
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2´-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	UJ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	UJ
78-59-1	Isophorone	10	UJ
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	380 ~~240~~	~~E~~
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	UJ
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	220 ~~170~~	~~E~~
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1´-Biphenyl	21	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	UJ
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	5	J
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	140 ~~95~~	~~E~~
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

AECOM064 S121

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW5A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51493.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	46	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	58	
120-12-7	Anthracene	13	
86-74-8	Carbazole	14	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	5	J
129-00-0	Pyrene	7	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3´-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S122

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5A121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51512.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	100	U
100-52-7	Benzaldehyde	100	U
108-95-2	Phenol	100	U
111-44-4	Bis(2-chloroethyl)ether	100	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	100	U
108-60-1	2,2'-oxybis(1-chloropropane)	100	U
98-86-2	Acetophenone	100	U
621-64-7	N-Nitroso-di-n-propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	100	U
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	380	D
106-47-8	4-Chloroaniline	100	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	220	D
77-47-4	Hexachlorocyclopentadiene	100	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	26	DJ
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	100	U
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	140	D
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	100	U

AECOM064 S123

1D

EPA SAMPLE NO.

MW5A121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-003BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51512.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
86-73-7	Fluorene	64	DJ
7005-72-3	4-Chlorophenyl-phenylether	100	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine	100	U
101-55-3	4-Bromophenyl-phenylether	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	100	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	67	DJ
120-12-7	Anthracene	14	DJ
86-74-8	Carbazole	16	DJ
84-74-2	Di-n-butyl phthalate	100	U
206-44-0	Fluoranthene	100	U
129-00-0	Pyrene	100	U
85-68-7	Butyl benzyl phthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	100	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octyl phthalate	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U

(1) Cannot be separated from Diphenylamine

AECOM064 S124

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW5B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51494.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00 / 200

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	28	J
100-52-7	Benzaldehyde	2100	~~E~~ J
108-95-2	Phenol	45	
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	11	
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U J
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	Bis(2-chloroethoxy)methane	10	U J
120-83-2	2,4-Dichlorophenol	10	U J
91-20-3	Naphthalene	8500 ~~5400~~	~~E~~
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U J
91-57-6	2-Methylnaphthalene	1200	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	46	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	91	~~E~~ J
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	28	
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	10	U

LCS, CCV, ICAL

15 minutes

AECOM064 S125

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW5B121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51494.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	52	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	88	~~E~~ J
120-12-7	Anthracene	21	
86-74-8	Carbazole	20	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	26	
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	
218-01-9	Chrysene	9	J
117-81-7	Bis(2-ethylhexyl)phthalate	1	J
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	5	J
207-08-9	Benzo(k)fluoranthene	4	J
50-32-8	Benzo(a)pyrene	8	J
193-39-5	Indeno(1,2,3-cd)pyrene	2	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	2	J

(1) Cannot be separated from Diphenylamine

AECOM064 S126

1C

EPA SAMPLE NO.

MW5B121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51510.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	2000	U
100-52-7	Benzaldehyde	2000	U
108-95-2	Phenol	2000	U
111-44-4	Bis(2-chloroethyl)ether	2000	U
95-57-8	2-Chlorophenol	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-chloropropane)	2000	U
98-86-2	Acetophenone	2000	U
621-64-7	N-Nitroso-di-n-propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	Bis(2-chloroethoxy)methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
91-20-3	Naphthalene	8500	D
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
105-60-2	Caprolactam	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-57-6	2-Methylnaphthalene	900	DJ
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	2000	U
92-52-4	1,1'-Biphenyl	2000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethylphthalate	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
208-96-8	Acenaphthylene	2000	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
100-02-7	4-Nitrophenol	2000	U
132-64-9	Dibenzofuran	2000	U

repeat original

repeat original

repeat original

AECOM064 S127

1D

EPA SAMPLE NO.

MW5B121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-004BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51510.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 200.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
86-73-7	Fluorene	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
100-01-6	4-Nitroaniline	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
86-30-6	N-Nitrosodiphenylamine	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
1912-24-9	Atrazine	2000	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	2000	U
120-12-7	Anthracene	2000	U
86-74-8	Carbazole	2000	U
84-74-2	Di-n-butyl phthalate	2000	U
206-44-0	Fluoranthene	2000	U
129-00-0	Pyrene	2000	U
85-68-7	Butyl benzyl phthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	2000	U
218-01-9	Chrysene	2000	U
117-81-7	Bis(2-ethylhexyl)phthalate	2000	U
117-84-0	Di-n-octyl phthalate	2000	U
205-99-2	Benzo(b)fluoranthene	2000	U
207-08-9	Benzo(k)fluoranthene	2000	U
50-32-8	Benzo(a)pyrene	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
53-70-3	Dibenzo(a,h)anthracene	2000	U
191-24-2	Benzo(g,h,i)perylene	2000	U

reject original

(1) Cannot be separated from Diphenylamine

AECOM064 S128

1C

EPA SAMPLE NO.

PW1121609

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51490.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	10	U J
100-52-7	Benzaldehyde	10	U J
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U J
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U J
78-59-1	Isophorone	10	U J
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	Bis(2-chloroethoxy)methane	10	U J
120-83-2	2,4-Dichlorophenol	10	U J
91-20-3	Naphthalene	3200 ~~2100~~	~~E~~
106-47-8	4-Chloroaniline	10	U J
87-68-3	Hexachlorobutadiene	10	U J
105-60-2	Caprolactam	10	U J
59-50-7	4-Chloro-3-methylphenol	10	U J
91-57-6	2-Methylnaphthalene	430	~~E~~ J
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
92-52-4	1,1'-Biphenyl	33	
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U J
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	88	~~E~~ J
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	67	
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	6	J

AECOM064 S129

1D

EPA SAMPLE NO.

PW1121609

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51490.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/22/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	36	
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	46	
120-12-7	Anthracene	9	J
86-74-8	Carbazole	8	J
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	4	J
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be separated from Diphenylamine

AECOM064 S130

1C

EPA SAMPLE NO.

PW1121609DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51507.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
12-03-3	3-Methylphenol/4-Methylphenol	1000	U
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	1000	U
111-44-4	Bis(2-chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2´-oxybis(1-chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	Bis(2-chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	3200	D
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	290	DJ
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1´-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1000	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	1000	U

report original

report original

AECOM064 S131

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PW1121609DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913486-005BDL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51507.D

Level: (low/med) LOW Date Received: 12/16/09

% Moisture: Decanted: (Y/N) N Date Extracted: 12/21/09

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 12/23/09

Injection Volume: 2 (µL) Dilution Factor: 100.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	1000	U
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	U
84-74-2	Di-n-butyl phthalate	1000	U
206-44-0	Fluoranthene	1000	U
129-00-0	Pyrene	1000	U
85-68-7	Butyl benzyl phthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	1000	U
218-01-9	Chrysene	1000	U
117-81-7	Bis(2-ethylhexyl)phthalate	1000	U
117-84-0	Di-n-octyl phthalate	1000	U
205-99-2	Benzo(b)fluoranthene	1000	U
207-08-9	Benzo(k)fluoranthene	1000	U
50-32-8	Benzo(a)pyrene	1000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000	U
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	1000	U

(1) Cannot be separated from Diphenylamine

AECOM064 S132

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67821.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	8	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S48

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW6B121409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67821.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	5	J
95-47-6	o-Xylene	3	J
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S49

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB121409-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67822.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	2	J
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 S50

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB121409-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: 0913342-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67822.D

Level: (low/med) LOW Date Received: 12/14/09

% Moisture: not dec. Date Analyzed: 12/21/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

AECOM064 S51

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW6B121409

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913342-001

Level (low/med): LOW Date Received: 12/14/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1070			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	159	B	J	P
7440-41-7	Beryllium	0.95	B	J	P
7440-43-9	Cadmium	0.77	B	J	P
7440-70-2	Calcium	22400			P
7440-47-3	Chromium	7.4	B	J	P
7440-48-4	Cobalt	2.6	B	J	P
7440-50-8	Copper	11.4	B	J	P
57-12-5	Cyanide	34.3			CA
7439-89-6	Iron	2470			P
7439-92-1	Lead	11.1			P
7439-95-4	Magnesium	33500			P
7439-96-5	Manganese	93.0			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.7	B	J	P
7440-09-7	Potassium	55800		J E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	699000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	11.4	B	J	P
7440-66-6	Zinc	52.0			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M5

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW4B121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-001

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	932			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	50.0			P
7440-39-3	Barium	276			P
7440-41-7	Beryllium	0.30	~~B~~	J	P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	55600			P
7440-47-3	Chromium	4.1	~~B~~	J	P
7440-48-4	Cobalt	2.0	~~B~~	J	P
7440-50-8	Copper	247			P
57-12-5	Cyanide	72.4			CA
7439-89-6	Iron	1030			P
7439-92-1	Lead	21.6			P
7439-95-4	Magnesium	61400			P
7439-96-5	Manganese	74.0			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	39.5	~~B~~	J	P
7440-09-7	Potassium	229000		J	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	1180000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	18.0	~~B~~	J	P
7440-66-6	Zinc	166			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M6

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW4C121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-002

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	80.5	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	136	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	62800			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.5	B	J	P
57-12-5	Cyanide	10.6			CA
7439-89-6	Iron	2160			P
7439-92-1	Lead	2.3	B	J	P
7439-95-4	Magnesium	36100			P
7439-96-5	Manganese	668			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.7	B	J	P
7440-09-7	Potassium	10300		J E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	137000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	13.6	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M7

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW4C121509D

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-003

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	93.2	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	151	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	69700			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.6	B	J	P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	2440			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	40200			P
7439-96-5	Manganese	748			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.1	B	J	P
7440-09-7	Potassium	11300		J B	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	150000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	14.7	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M8

U.S. EPA - CLP

I

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW6A121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-004

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3740			P
7440-36-0	Antimony	3.9	B	J	P
7440-38-2	Arsenic	14.4			P
7440-39-3	Barium	498			P
7440-41-7	Beryllium	0.33	B	J	P
7440-43-9	Cadmium	0.83	B	J	P
7440-70-2	Calcium	204000			P
7440-47-3	Chromium	15.4			P
7440-48-4	Cobalt	4.2	B	J	P
7440-50-8	Copper	67.7			P
57-12-5	Cyanide	56.9			CA
7439-89-6	Iron	39300			P
7439-92-1	Lead	479			P
7439-95-4	Magnesium	22600			P
7439-96-5	Manganese	1180			P
7439-97-6	Mercury	1.8			CV
7440-02-0	Nickel	8.1	B	J	P
7440-09-7	Potassium	26900		J E	P
7782-49-2	Selenium	2.9	B	J	P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	191000			P
7440-28-0	Thallium	3.9	B	J	P
7440-62-2	Vanadium	12.8	B	J	P
7440-66-6	Zinc	387			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM064 M9

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW7A121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-005

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	70.0	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	188	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	298000			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.5	B	J	P
7440-50-8	Copper	2.7	B	J	P
57-12-5	Cyanide	266			CA
7439-89-6	Iron	460			P
7439-92-1	Lead	3.3			P
7439-95-4	Magnesium	64600			P
7439-96-5	Manganese	573			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.1	B	J	P
7440-09-7	Potassium	53500		J E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	188000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	4.9	B	J	P
7440-66-6	Zinc	16.7	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M10

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW7B121509

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913464-006

Level (low/med): LOW Date Received: 12/15/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	69.2	~~B~~	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	197	~~B~~	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	147000			P
7440-47-3	Chromium	1.8	~~B~~	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.3	~~B~~	J	P
57-12-5	Cyanide	18.0			CA
7439-89-6	Iron	3420			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	79200			P
7439-96-5	Manganese	368			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.9	~~B~~	J	P
7440-09-7	Potassium	59400		J ~~E~~	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	497000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	15.6	~~B~~	J	P
7440-66-6	Zinc	11.7	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM064 M11

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW2A121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913486-001

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	50.0	B	J	P
7440-36-0	Antimony	6.0	B	J	P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	53.0	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	566000			P
7440-47-3	Chromium	0.81	B	J	P
7440-48-4	Cobalt	3.5	B	J	P
7440-50-8	Copper	16.6	B	J	P
57-12-5	Cyanide	109			CA
7439-89-6	Iron	17400			P
7439-92-1	Lead	10.5			P
7439-95-4	Magnesium	56900			P
7439-96-5	Manganese	761			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	18.0	B	J	P
7440-09-7	Potassium	79900		J E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	151000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	2.2	B	J	P
7440-66-6	Zinc	181			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM064 M12

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW2B121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913486-002

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	240			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	118	~~B~~	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	42400			P
7440-47-3	Chromium	3.8	~~B~~	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	4.2	~~B~~	J	P
57-12-5	Cyanide	11.4		J	CA
7439-89-6	Iron	603			P
7439-92-1	Lead	2.7	~~B~~	J	P
7439-95-4	Magnesium	53900			P
7439-96-5	Manganese	87.4			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.8	~~B~~	J	P
7440-09-7	Potassium	59500		J ~~B~~	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	458000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	7.1	~~B~~	J	P
7440-66-6	Zinc	17.4	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM064 M13

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW5A121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913486-003

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	94.2	B	J	P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	8.4	B	J	P
7440-39-3	Barium	670			P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	200000			P
7440-47-3	Chromium	0.82	B	J	P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	2.4	B	J	P
57-12-5	Cyanide	64.8			CA
7439-89-6	Iron	4440			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	116000			P
7439-96-5	Manganese	215			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	U		P
7440-09-7	Potassium	93900		J E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	175000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	4.3	B	J	P
7440-66-6	Zinc	14.2	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Date Reported 12/30/2009

AECOM064 M14

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MW5B121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913486-004

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	605			P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	6.7	~~B~~	J	P
7440-39-3	Barium	127	~~B~~	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	4.0	~~B~~	J	P
7440-48-4	Cobalt	2.4	~~B~~	J	P
7440-50-8	Copper	4.4	~~B~~	J	P
57-12-5	Cyanide	202			CA
7439-89-6	Iron	1960			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	126000			P
7439-96-5	Manganese	198			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.4	~~B~~	J	P
7440-09-7	Potassium	125000		J ~~B~~	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	1040000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	9.9	~~B~~	J	P
7440-66-6	Zinc	17.6	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M15

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

PW1121609

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Lab Sample ID: 0913486-005

Level (low/med): LOW Date Received: 12/16/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17.7	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	154	B	J	P
7440-41-7	Beryllium	0.26	U		P
7440-43-9	Cadmium	0.34	U		P
7440-70-2	Calcium	70300			P
7440-47-3	Chromium	0.44	U		P
7440-48-4	Cobalt	1.2	U		P
7440-50-8	Copper	23.4	B	J	P
57-12-5	Cyanide	10.0	U		CA
7439-89-6	Iron	6310			P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	32700			P
7439-96-5	Manganese	5160			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.2	B	J	P
7440-09-7	Potassium	11700		J-E	P
7782-49-2	Selenium	2.5	U		P
7440-22-4	Silver	0.83	U		P
7440-23-5	Sodium	166000			P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	1.4	U		P
7440-66-6	Zinc	11.8	B	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 12/30/2009

AECOM064 M16

Appendix C

Support Documentation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM049

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
SS-3	0910491-002	X	X	X	X	X
SS-4	0910491-003	X	X	X	X	X
TB-092109	0910491-004				X	
SS-5	0910571-001	X	X	X	X	X
DUP-1	0910681-001	X	X	X	X	X
SB-3 (4'-5')	0910681-002	X	X	X	X	X
SB-17 (1'-2')	0910681-003	X	X	X	X	X
SS-2	0910681-004	X	X	X	X	X
SB-5 (16'-18')	0910781-001	X	X	X	X	X
SB-5 (28'-30')	0910781-002	X	X	X	X	X
SB-5 (52'-54')	0910781-003	X	X	X	X	X
SB-8 (2'-3')	0910781-004	X	X	X	X	X
TB093009	0910781-005				X	
RB100509	0910859-001	X	X	X	X	X
SB-7 (6'-8')	0910973-001	X	X	X	X	X

CLP (Non-CLP) (Please indicate year of protocol) ASP B 2000

MTM 10/29/09

AECOM049 A3

H2M LABS, INC.

23130

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: | **H2M SDG NO:** AECOM 049/050

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: VIPUL MEHRA

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	ANALYSIS REQUESTED: ORGANICS: TCL VOA	ORGANICS: TCL BNA	ORGANICS: TCL PEST/PCB	ORGANICS: ABNs				INORG.: TAL Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
9/23/09	7:15	S	SS-3	3	2 oz GLASS	X	X	X					X	X	0910491-002 ABCD	TCLP
9/23/09	13:20	S	SB-15 (3'-4')	3	8 oz GLASS	X	X	X	X	9/24/09			X	X	0910529-001 ABCD	
9/23/09	14:15	S	SS-4	3	8 oz GLASS	X	X	X					X	X	0910491-003 ABCD	
9/24/09		W	TB	2	4 oz GLASS	X									0910491-004 A	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipul Mehra	9/23/09	15:46	S. Wall	9-23-09	15.46
S. Wall	9.23.09	17.34	Matt M-	9/23/09	17:34

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled, Temp 4.1°C on ICE
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

AECOM049 A24

H2M LABS, INC.

Sample Receipt Checklist

AECOM 049

Client Name AECOM

Date and Time Received: 9/23/2009 5:34:00 PM

Work Order Number 0910491

Received by MJMa

Checklist completed by Signature 9/23/09 Date

Reviewed by Initials 9/25/09 Date

Matrix:

Carrier name: Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

AECOM049 A25

H2M LABS, INC.

23731

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM 049/050

PROJECT NAME/NUMBER: EQUITY SITE

SAMPLERS: (signature)/Client

DELIVERABLES: B0-70

TURNAROUND TIME: STD

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOC	VOC	TCL SVOC/PCB/HERB/PEST	TAL Metals/Free CN	SVOC/PCB					LAB I.D. NO.	REMARKS:
					ORGANIC							INORG.			
					VOA	BNA	Pest/PCB					Metal	CN		
9/24/09	14:15	S	SB-16 (2'-3')	3		X		X	X					0910572-001	AECOM050
9/25/09	8:30	S	SS-5	3	X		X	X						0910571-001	AECOM 049
9/25/09	11:01	S	SB-18 (4'-5')	3		X		X	X					0910572-002	AECOM050
9/21/09			TB	2		X								0910572-003	AECOM 050

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipul Mehta	9/25/09	15:55	S. Wat	9-25-09	15:55
S. Wat	9-25-09	17:58	Matt M	9/25/09	17:58

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled, Temp 4.5°C ON ICE
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM049 A33

H2M LABS, INC.

Sample Receipt Checklist

AECOM 049

Client Name AECOM

Date and Time Received: 9/25/2009 5:58:00 PM

Work Order Number 0910571

Received by MJMa

Checklist completed by _____ (Signature) 9/25/09 (Date)

Reviewed by SA (Initials) 9/29/09 (Date)

Matrix:

Carrier name: Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

AECOM049 A34

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23735

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: AECOM049/051

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: VM | JM

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

Sample Container Description →

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	TCL VOC	TCL SVOC	TCL HERB/PEST		INORG. TAL Metal	INORG. PEST CN	LAB I.D. NO.	REMARKS:
9/28/09	9:45	S	SS-2	3				X	X	X		X	X	0910681-004	AECOM 049
9/28/09		S	DUP-1	3				X	X	X		X	X	-001	
9/28/09	13:13	S	SB-3 (4'-5')	3				X	X	X		X	X	-002	
9/25/09	16:00	S	SB-17 (1'-2')	3				X	X	X		X	X	-003 (9/29 DAC T)	
9/28/09		S	MS/MSD-1 (SB-3 4'-5')	3				X	X	X		X	X	0910681-002	
9/28/09		W	TB	2	X									0910683-002	AECOM 051

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/28/09	15:12	[signature]	9/28/09	1512
[signature]	9/28/09	15:50	[signature]	9/28/09	16:45
		DAC T 9/28/09			

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp 5.2°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM049

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 9/28/2009 4:45:00 PM

Work Order Number 0910681 | Received by dmc

Checklist completed by _____ (Signature) 9/29/09 (Date) | Reviewed by JSA (Initials) 10/5/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 9/28/09 Person contacted VIPUL MEHRA

Contacted by: JEN ARACRI Regarding _____

Comments: FOR SAMPLE DUP-1, THE 2OZ JAR WAS LABELED SS-2. FOR MS/MSD SAMPLE, PARENT SAMPLE WAS NOT NAMED ON COC OR BOTTLE LABELS.

Corrective Action FOR SAMPLE DUP-1, USED COLLECTION TIME TO IDENTIFY SAMPLE.

AECOM049 A43

H2M LABS, INC.

23619

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: AECOM049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: ABCOM

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: PETE COX

Phone Number:

PIS/Quote #

Sample Container Description →

Total No. of Containers ↓

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: PCB	ORGANIC: TCL VOC	ORGANIC: TCL SVOC	ORGANIC: TCL Pest/Herb	INORG.: TAL Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
9/25/09	16:25	S	SB-10 (16'-18')		X	X					X	X	0910782-002	AECOM050
9/28/09	16:00	S	SB-10 (40'-41.5')		X	X					X	X	↓ -003	↓
9/28/09	16:10	S	SB-13 (12'-14')		X	X					X	X	0910783-002	AECOM056
9/28/09	16:30	S	SB-5 (52'-54')				X	X	X	X	X	X	0910781-003	AECOM049
9/27/09	10:03	S	SB-13 (0'-1')		X	X	X				X	X	0910783-001	AECOM056
9/27/09	15:46	S	SB-8 (2'-3')				X	X	X	X	X	X	0910781-004	AECOM049
9/28/09	16:20	S	SB-5 (16'-18')				X	X	X	X	X	X	↓ -001	↓
9/28/09	16:40	S	SB-5 (28'-30')				X	X	X	X	X	X	↓ -002	↓
9/25/09	14:30	S	SB-12 (4'-5')		X	X	X				X	X	0910782-004	AECOM050
9/24/09	9:45	S	SB-4 (1'-2')		X	X	X				X	X	↓ -001	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
S. Wad	9/30/09	1508	S. Wad	9-30-09	15.12
S. Wad	9-30-09	16.53		9/30/09	16:53

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp _____
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM049 A31

AECOM049

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 9/30/2009 4:53:00 PM

Work Order Number 0910781 | Received by dmc

Checklist completed by [signature] Signature 10/1/09 Date | Reviewed by FA Initials 10/8/09 Date

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: TRIP BLANK NOT ON COC.

Corrective Action _____

AECOM049 A52

H2M LABS, INC.

23738

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: AECOM 049

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER PO

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENNIFER PFIFFER

Phone Number: 212 798 8549

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	ORGANIC	ORGANIC	ORGANIC	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
			Sample Container Description →		VOC	SVOC	PEST/HER PCB	TAL						
10/5/09	15:15	W	RB100509	9	X	X	X	X			X	X	0910859-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipul	10/5/09	15:30	S.Weil	10-5-09	15.30
S.Weil	10.5.09	16.55		10/5/09	16:55
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 5.3°C ON ICE
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM049 A60

AECOM049

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/5/2009 4:55:00 PM

Work Order Number 0910859

Received by dmc

Checklist completed by [signature] Signature 10/5/09 Date

Reviewed by JRA Initials 10/9/09 Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM049 A61

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23140

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: AECOM049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN

Phone Number: 914-227-3779

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB				INORG.: TAL Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
			Sample Container Description →		VOC	SVOC	TCL VOC	TCL SVOC	PCB	TCL Pest + Herb				
10/6/09	16:40	S	SB-11 (54'-56')	3	X	X					X	X	0910975-003	AECOM 056
10/6/09	16:45	S	SB-11 (32'-32.5')	2	X	X					X	X	-002	
10/6/09	17:00	S	SB-11 (16'-18')	3	X	X					X	X	-001	
10/5/09	16:05	S	SB-7 (6'-8')	2			X	X	X	X	X	X	0910973-001	AECOM 049
10/6/09	13:45	S	TP-2 (8.5')	3	X	X					X	X	0910975-004	AECOM056
10/7/09	12:50	S	TP-3 (7.5) MS/MSD 2	3	X	X					X	X	0910974-003	AECOM 050
10/7/09	12:45	S	TP-3 (7.0)	3	X	X					X	X	-002	
10/7/09	12:50	S	TP-3 (7.5)	3	X	X					X	X	-003	
10/7/09		S	DUP-2	3	X	X					X	X	-001	
10/2/09			TB	2	X								0910975-005	AECOM056

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10/7/09	15:55	S. Wall	10-7-09	15.53
S. Wall	10-7-09	17.38	M. Wall	10.7.09	17:38

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or Chilled, Temp 4.3°C
3. Received in good condition Y or N
4. Properly preserved Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM 049

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/7/2009 5:38:00 PM

Work Order Number 0910973 | Received by MCW

Checklist completed by M. Wat (Signature) 10.8.09 (Date) | Reviewed by JSA (Initials) 10/9/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM049 A70

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3467.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 V437

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3467.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 V438

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3558.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 V472

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3558.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 V473

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7624.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	1	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM049 V446

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) WATER Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7624.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

AECOM049 V447

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2	
Chloromethane	3.9530302	3.9524610	4.6319223	4.5359106	3.9705922	3.7443876					4.131	8.8		
Dichlorodifluoromethane	2.5265557	2.7299738	1.9783901	2.1865041	2.6096983	2.4376444					2.411	11.6		
Bromomethane *	0.8880219	0.8976113	1.1740105	1.2996166	1.2489609	1.3522305					1.143	17.7	*	
Vinyl chloride *	3.3203291	3.4778529	4.0292199	4.0115006	3.4855196	3.2681062					3.599	9.4	*	
Chloroethane	1.8818803	2.156261	2.4674965	2.4918941	2.0931397	1.9769313					2.178	11.6		
Methylene chloride	5.3571015	3.9804136	3.6467208	3.3675581	2.8007598	2.6293847					3.630	27.2		
Acetone	1.551238	0.9931975	0.8966764	0.7762228	0.7105922	0.6987351					0.938	34.3		
Trichlorofluoromethane	3.3925605	3.5273076	4.2479810	4.2795714	3.7478436	3.5347371					3.788	10.2		
1,1-Dichloroethene *	2.3183591	2.3446968	2.7471601	2.7629209	2.3856536	2.2609153					2.470	9.1	*	
Carbon disulfide	8.6735679	9.2665859	10.960352	10.908780	9.4190391	8.8316586					9.677	10.5		
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378					2.650	11.7		
1,1-Dichloroethane *	5.1508363	5.2998554	6.2041844	6.3247887	5.5281564	5.2294899					5.623	9.1	*	
1,2-Dichloroethene (total)	2.7975202	2.8322061	3.4375555	3.4130525	2.9474413	2.8066864					3.039	10.0		
Chloroform *	4.7927691	4.8256382	5.6070288	5.7064801	5.0334525	4.7711600					5.123	8.3	*	
Freon-113	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378					2.650	11.7		
1,2-Dichloroethane *	3.1295145	3.0910122	3.6247559	3.790818	3.316514	3.2260957					3.363	8.4	*	
Methyl Acetate	1.9135540	1.6699245	1.9758387	2.0329315	1.7825251	1.8158427					1.865	7.2		
2-Butanone	1.5245857	1.1790922	1.3325346	1.3240959	1.2522235	1.293651					1.318	8.8		
1,1,1-Trichloroethane *	0.5947949	0.5556078	0.7081902	0.7311147	0.6453866	0.6382190					0.646	10.3	*	
trans-1,2-Dichloroethene	2.6594306	2.6940068	3.2357118	3.2617893	2.8203352	2.6814749					2.892	9.8		
Carbon tetrachloride *	0.4909602	0.4542288	0.5913246	0.6013965	0.5338987	0.5258556					0.533	10.6	*	
Methyl tert-butyl ether	7.1126733	6.4707377	7.7352902	8.2204517	7.1659665	7.1360082					7.307	8.2		
Bromodichloromethane *	0.5844967	0.5157695	0.6632225	0.7008252	0.6161716	0.6125207					0.616	10.4	*	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
1,2-Dichloropropane	0.4614063	0.4137269	0.5306183	0.5566970	0.4860794	0.4798372					0.488	10.4	
cis-1,2-Dichloroethene	2.9209317	2.9623910	3.5888135	3.5338322	3.0664581	2.9346319					3.168	9.8	
cis-1,3-Dichloropropene *	0.7205665	0.6376344	0.8196529	0.8671991	0.7463528	0.7530152					0.757	10.5	*
Trichloroethene *	0.3793257	0.3593743	0.473251	0.4959530	0.4242505	0.4288393					0.427	12.3	*
Dibromochloromethane *	0.3773757	0.3239870	0.4257832	0.4444213	0.3976976	0.4034818					0.395	10.6	*
1,1,2-Trichloroethane *	0.3225335	0.2715420	0.3578452	0.3730312	0.3272656	0.3342970					0.331	10.6	*
Benzene *	1.679514	1.5450690	1.9409917	2.0289776	1.744119	1.7252218					1.777	10.0	*
Cyclohexane	0.7466470	0.7071095	1.1209529	0.8983274	0.7940967	0.7997716					0.844	17.7	
trans-1,3-Dichloropropene *	0.6477481	0.5515991	0.7145662	0.7628596	0.6578134	0.6639687					0.666	10.7	*
Bromoform *	0.2280829	0.1813598	0.2370030	0.2588915	0.2347312	0.2423545					0.230	11.4	*
4-Methyl-2-pentanone	0.466452	0.3718865	0.4819145	0.523166	0.4420776	0.4776439					0.461	11.0	
2-Hexanone	0.3426181	0.2627634	0.3444027	0.3808426	0.3267687	0.3518264					0.335	11.8	
Tetrachloroethene *	0.2747585	0.2600019	0.378854	0.3551123	0.3049207	0.3075137					0.314	14.6	*
1,1,2,2-Tetrachloroethane *	0.4682447	0.3762563	0.4836746	0.5137895	0.4559886	0.4636831					0.460	10.0	*
Methylcyclohexane	0.4873040	0.4932930	1.0621426	0.6712095	0.5952410	0.6228470					0.655	32.4	
Toluene *	1.7209256	1.5685084	1.9960653	2.0729512	1.7600727	1.7349439					1.809	10.4	*
Chlorobenzene *	1.0554762	1.0078717	1.2751188	1.3267703	1.1286878	1.1361798					1.155	10.7	*
Ethylbenzene *	0.5415491	0.5166052	0.7495306	0.6923446	0.5933363	0.5976279					0.615	14.5	*
Styrene *	1.1883404	1.0999102	1.4854201	1.5033195	1.3027191	1.3121081					1.315	12.1	*
Xylene (total) *	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	*
m,p-Xylene *	0.6659473	0.6354541	0.9189634	0.8548094	0.7420208	0.7434688					0.760	14.3	*
o-Xylene	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
1,2-Dibromoethane	0.3790047	0.3031535	0.3967855	0.4257351	0.3646191	0.3722741					0.374	10.9	
Isopropylbenzene	1.6323495	1.5799488	2.8354186	2.1180168	1.8644723	1.9154044					1.991	23.0	
1,3-Dichlorobenzene	0.674546	0.6515828	1.0489762	0.8719695	0.7704939	0.7899846					0.801	18.2	
1,4-Dichlorobenzene	0.7299226	0.6655419	1.0310446	0.8939871	0.7904521	0.8091043					0.820	15.7	
1,2-Dichlorobenzene	0.6228877	0.5875534	0.8996201	0.8060822	0.7073352	0.7257586					0.725	15.9	
1,2-Dibromo-3-chloropropane	0.0804754	0.0605700	0.0791701	0.0851439	0.0757192	0.0806988					0.077	11.2	
1,2,4-Trichlorobenzene	0.3999203	0.3738590	0.7226333	0.5110835	0.4504	0.4769516					0.489	25.5	
1,2-Dichloroethane-d4	3.9209703	3.2321436	3.33056	3.3021569	2.8383240	2.7234855					3.225	13.2	
Toluene-d8	1.6353375	1.3970553	1.7034587	1.753528	1.4748422	1.4843545					1.575	9.1	
4-Bromofluorobenzene *	0.7542910	0.5763558	0.6957910	0.6862955	0.5924373	0.5837967					0.648	11.4	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Date: 10/02/09 Time: 12:34

Lab File ID: 09\G3466.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	4.131	3.228		-21.9	
Dichlorodifluoromethane	2.411	1.887		-21.7	
Bromomethane	1.143	1.120	0.100	-2.0	25.0
Vinyl chloride	3.599	2.315	0.100	-35.7	25.0
Chloroethane	2.178	1.691		-22.4	
Methylene chloride	3.630	4.090		12.7	
Acetone	0.938	1.042		11.1	
Trichlorofluoromethane	3.788	2.497		-34.1	
1,1-Dichloroethene	2.470	2.681	0.100	8.5	25.0
Carbon disulfide	9.677	10.018		3.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.650	2.889		9.0	
1,1-Dichloroethane	5.623	6.131	0.200	9.0	25.0
Chloroform	5.123	5.291	0.200	3.3	25.0
1,2-Dichloroethane	3.363	3.765	0.100	11.9	25.0
Methyl Acetate	1.865	2.220		19.0	
2-Butanone	1.318	1.660		26.0	
1,1,1-Trichloroethane	0.646	0.752	0.100	16.5	25.0
trans-1,2-Dichloroethene	2.892	3.195		10.5	
Carbon tetrachloride	0.533	0.564	0.100	5.8	25.0
Methyl tert-butyl ether	7.307	8.169		11.8	
Bromodichloromethane	0.616	0.656	0.200	6.6	25.0
1,2-Dichloropropane	0.488	0.550		12.7	
cis-1,2-Dichloroethene	3.168	3.397		7.2	
cis-1,3-Dichloropropene	0.757	0.873	0.200	15.3	25.0
Trichloroethene	0.427	0.554	0.300	29.8	25.0
Dibromochloromethane	0.395	0.463	0.100	17.1	25.0
1,1,2-Trichloroethane	0.331	0.409	0.100	23.5	25.0
Benzene	1.777	1.776	0.500	-0.1	25.0
Cyclohexane	0.844	0.890		5.4	
trans-1,3-Dichloropropene	0.666	0.788	0.100	18.2	25.0
Bromoform	0.230	0.287	0.100	24.6	25.0
4-Methyl-2-pentanone	0.461	0.586		27.2	
2-Hexanone	0.335	0.462		38.0	
Tetrachloroethene	0.314	0.359	0.200	14.5	25.0
1,1,2,2-Tetrachloroethane	0.460	0.378	0.300	-17.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM049 V392

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Date: 10/02/09 Time: 12:34

Lab File ID: 09\G3466.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.655	0.730		11.4	
Toluene	1.809	1.861	0.400	2.9	25.0
Chlorobenzene	1.155	1.267	0.500	9.7	25.0
Ethylbenzene	0.615	0.609	0.100	-1.0	25.0
Styrene	1.315	1.331	0.300	1.2	25.0
m,p-Xylene	0.760	0.757	0.300	-0.4	25.0
o-Xylene	0.738	0.728		-1.4	
1,2-Dibromoethane	0.374	0.463		23.9	
Isopropylbenzene	1.991	2.026		1.8	
1,3-Dichlorobenzene	0.801	0.889		11.0	
1,4-Dichlorobenzene	0.820	0.907		10.6	
1,2-Dichlorobenzene	0.725	0.809		11.6	
1,2-Dibromo-3-chloropropane	0.077	0.094		22.1	
1,2,4-Trichlorobenzene	0.489	0.550		12.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 V393

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
Chloromethane	2.9866490	2.8574809	2.8758224	2.6556806	2.7426660	2.3733170					2.749	7.9	
Dichlorodifluoromethane	1.8671908	1.8342235	1.8225512	1.6733094	1.7407128	1.5781005					1.753	6.3	
Bromomethane *	1.196528	1.2928470	1.2563962	1.2915723	1.4240252	1.2917412					1.292	5.8	*
Vinyl chloride *	2.2245144	2.3668109	2.1874086	2.1138209	2.2399388	1.9137812					2.174	7.0	*
Chloroethane	1.4051613	1.5955649	1.4784357	1.4654914	1.5158104	1.3046849					1.461	6.8	
Methylene chloride	9.3231093	6.1958285	4.0524488	2.8797338	2.6439891	2.2020925					4.550	60.3	
Acetone	1.3308162	0.8914205	0.7254203	0.6568651	0.6876612	0.6374649					0.822	32.3	
Trichlorofluoromethane	1.8909346	2.3669799	2.2991594	2.2628297	2.3767045	2.0646915					2.210	8.7	
1,1-Dichloroethene *	1.9345296	2.0443175	1.8991228	1.8849598	1.9759343	1.7187033					1.910	5.8	*
Carbon disulfide	6.9366704	7.4068690	7.0022844	6.8984775	7.2073782	6.2595778					6.952	5.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497					1.755	6.9	
1,1-Dichloroethane *	4.4054338	4.6665202	4.3943713	4.3201059	4.5457913	4.0543474					4.398	4.8	*
1,2-Dichloroethene (total)	2.3669768	2.5645663	2.3941886	2.383392	2.4954117	2.2345705					2.407	4.7	
Chloroform *	3.8729516	4.0908323	3.9502924	3.8599101	4.0162158	3.6371456					3.905	4.0	*
Freon-113	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497					1.755	6.9	
1,2-Dichloroethane *	2.5257872	2.8694814	2.7324561	2.6977668	2.8222525	2.631627					2.713	4.6	*
Methyl Acetate	1.8126971	1.9488202	1.8125	1.7032714	1.8156372	1.6971941					1.798	5.1	
2-Butanone	1.5277724	1.3739774	1.2682749	1.1467791	1.2589187	1.1650126					1.290	11.0	
1,1,1-Trichloroethane *	0.550347	0.6198278	0.5877442	0.580825	0.6120924	0.5503538					0.584	5.1	*
trans-1,2-Dichloroethene	2.1665175	2.4420256	2.2755848	2.2518900	2.3721162	2.1147426					2.270	5.4	
Carbon tetrachloride *	0.4062679	0.4541976	0.4444585	0.4441292	0.4773440	0.4336803					0.443	5.3	*
Methyl tert-butyl ether	5.1204702	6.1819688	5.5594846	5.6635543	6.0415715	5.5813843					5.691	6.7	
Bromodichloromethane *	0.4835894	0.5289404	0.5084348	0.5089978	0.5417726	0.505834					0.513	3.9	*

AECOM049 V365

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
1,2-Dichloropropane	0.4151444	0.4402655	0.4303561	0.4214283	0.4444649	0.4147279					0.428	3.0	
cis-1,2-Dichloroethene	2.5678253	2.686769	2.5129751	2.5103648	2.6136581	2.3427865					2.539	4.6	
cis-1,3-Dichloropropene *	0.6530510	0.7145121	0.6793932	0.6800273	0.7096687	0.6745413					0.685	3.4	*
Trichloroethene *	0.3890283	0.4077673	0.4027666	0.3969397	0.4097774	0.3837453					0.398	2.6	*
Dibromochloromethane *	0.3772907	0.3995755	0.4013198	0.4012974	0.4322845	0.4127649					0.404	4.5	*
1,1,2-Trichloroethane *	0.3593175	0.3585267	0.3517951	0.3440579	0.3629611	0.339439					0.353	2.6	*
Benzene *	1.3683848	1.4656482	1.3994638	1.3747540	1.4173315	1.304794					1.388	3.9	*
Cyclohexane	0.5376557	0.5989297	0.6134046	0.5807567	0.6207077	0.5656308					0.586	5.3	
trans-1,3-Dichloropropene *	0.6223865	0.6473631	0.6456339	0.6276793	0.6582099	0.6248359					0.638	2.3	*
Bromoform *	0.2589609	0.2530495	0.2558555	0.2541730	0.2825475	0.2763306					0.263	4.8	*
4-Methyl-2-pentanone	0.4712582	0.5166171	0.464067	0.4437591	0.4705707	0.4478431					0.469	5.5	
2-Hexanone	0.3885886	0.4011205	0.3717278	0.3521645	0.3747639	0.3512189					0.373	5.3	
Tetrachloroethene *	0.2422317	0.2949927	0.2785926	0.2773405	0.2869985	0.2637909					0.274	6.8	*
1,1,2,2-Tetrachloroethane *	0.5180264	0.53852	0.5215673	0.4997023	0.5278686	0.4961028					0.517	3.2	*
Methylcyclohexane	0.3723755	0.4142849	0.4131106	0.399311	0.4114661	0.394102					0.401	4.0	
Toluene *	1.4238848	1.5943850	1.4715158	1.4784978	1.5123719	1.3737697					1.476	5.1	*
Chlorobenzene *	1.0512524	1.1330632	1.076212	1.0614061	1.0918782	1.0059365					1.070	4.0	*
Ethylbenzene *	0.4842570	0.5159207	0.4965178	0.4916632	0.5016645	0.4565964					0.491	4.1	*
Styrene *	1.1498095	1.1594607	1.1241091	1.1137052	1.1397146	1.0533605					1.123	3.4	*
Xylene (total) *	0.6086053	0.6312591	0.6088085	0.5987598	0.6177038	0.5634955					0.605	3.8	*
m,p-Xylene *	0.6066108	0.6443312	0.6231624	0.6077439	0.6193416	0.5679363					0.612	4.1	*
o-Xylene	0.6086053	0.6312591	0.6088085	0.5987598	0.6177038	0.5634955					0.605	3.8	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
1,2-Dibromoethane	0.3791662	0.4336899	0.4033657	0.3934018	0.4123652	0.3898946					0.402	4.8	
Isopropylbenzene	1.4707905	1.5484586	1.5146537	1.4719928	1.5148670	1.3957745					1.486	3.6	
1,3-Dichlorobenzene	0.7606707	0.7309616	0.7259092	0.7104844	0.7291882	0.6828254					0.723	3.6	
1,4-Dichlorobenzene	0.7647285	0.7706527	0.7495698	0.7250803	0.7506531	0.7022498					0.744	3.5	
1,2-Dichlorobenzene	0.7038611	0.7022536	0.6853965	0.6758104	0.6928193	0.6497866					0.685	2.9	
1,2-Dibromo-3-chloropropane	0.0901663	0.0883712	0.0889010	0.0849795	0.0913892	0.0864958					0.088	2.7	
1,2,4-Trichlorobenzene	0.3886573	0.3883649	0.3888678	0.378793	0.3853239	0.3617369					0.382	2.8	
1,2-Dichloroethane-d4	2.549531	2.5934690	2.3639437	2.3334146	2.4386379	2.2777758					2.426	5.1	
Toluene-d8	1.3473363	1.4851554	1.3626125	1.3491547	1.3869482	1.2790534					1.368	4.9	
4-Bromofluorobenzene *	0.670642	0.6121415	0.5802023	0.5560014	0.5661330	0.5272937					0.585	8.6	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Date: 10/12/09 Time: 10:38

Lab File ID: 09\G3557.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.369		22.6	
Dichlorodifluoromethane	1.753	2.158		23.1	
Bromomethane	1.292	1.751	0.100	35.5	25.0
Vinyl chloride	2.174	2.575	0.100	18.4	25.0
Chloroethane	1.461	1.732		18.6	
Methylene chloride	4.550	3.631		-20.2	
Acetone	0.822	0.784		-4.6	
Trichlorofluoromethane	2.210	2.751		24.5	
1,1-Dichloroethene	1.910	1.982	0.100	3.8	25.0
Carbon disulfide	6.952	7.078		1.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	2.184		24.4	
1,1-Dichloroethane	4.398	4.755	0.200	8.1	25.0
Chloroform	3.905	4.327	0.200	10.8	25.0
1,2-Dichloroethane	2.713	3.118	0.100	14.9	25.0
Methyl Acetate	1.798	2.032		13.0	
2-Butanone	1.290	1.406		9.0	
1,1,1-Trichloroethane	0.584	0.609	0.100	4.4	25.0
trans-1,2-Dichloroethene	2.270	2.426		6.8	
Carbon tetrachloride	0.443	0.455	0.100	2.6	25.0
Methyl tert-butyl ether	5.691	6.578		15.6	
Bromodichloromethane	0.513	0.545	0.200	6.3	25.0
1,2-Dichloropropane	0.428	0.468		9.4	
cis-1,2-Dichloroethene	2.539	2.782		9.6	
cis-1,3-Dichloropropene	0.685	0.750	0.200	9.5	25.0
Trichloroethene	0.398	0.419	0.300	5.2	25.0
Dibromochloromethane	0.404	0.431	0.100	6.7	25.0
1,1,2-Trichloroethane	0.353	0.372	0.100	5.5	25.0
Benzene	1.388	1.476	0.500	6.3	25.0
Cyclohexane	0.586	0.723		23.3	
trans-1,3-Dichloropropene	0.638	0.682	0.100	6.9	25.0
Bromoform	0.263	0.278	0.100	5.5	25.0
4-Methyl-2-pentanone	0.469	0.485		3.4	
2-Hexanone	0.373	0.386		3.4	
Tetrachloroethene	0.274	0.286	0.200	4.4	25.0
1,1,2,2-Tetrachloroethane	0.517	0.540	0.300	4.5	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM049 V420

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5972-2 Calibration Date: 10/12/09 Time: 10:38

Lab File ID: 09\G3557.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.575		43.5	
Toluene	1.476	1.454	0.400	-1.5	25.0
Chlorobenzene	1.070	1.074	0.500	0.4	25.0
Ethylbenzene	0.491	0.508	0.100	3.4	25.0
Styrene	1.123	1.154	0.300	2.7	25.0
m,p-Xylene	0.612	0.637	0.300	4.2	25.0
o-Xylene	0.605	0.628		3.8	
1,2-Dibromoethane	0.402	0.419		4.2	
Isopropylbenzene	1.486	1.725		16.1	
1,3-Dichlorobenzene	0.723	0.800		10.6	
1,4-Dichlorobenzene	0.744	0.815		9.6	
1,2-Dichlorobenzene	0.685	0.748		9.2	
1,2-Dibromo-3-chloropropane	0.088	0.095		7.5	
1,2,4-Trichlorobenzene	0.382	0.501		31.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 V421

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5971 Calibration Date: 10/08/09 Time: 10:06

Lab File ID: A\A66779.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.527	0.707		34.2	
Toluene	1.913	2.234	0.400	16.8	25.0
Chlorobenzene	1.297	1.478	0.500	14.0	25.0
Ethylbenzene	0.627	0.734	0.100	17.0	25.0
Styrene	1.331	1.543	0.300	15.9	25.0
m,p-Xylene	0.763	0.883	0.300	15.7	25.0
o-Xylene	0.787	0.922		17.1	
1,2-Dibromoethane	0.522	0.570		9.2	
Isopropylbenzene	1.760	2.171		23.3	
1,3-Dichlorobenzene	0.945	1.146		21.2	
1,4-Dichlorobenzene	0.986	1.155		17.1	
1,2-Dichlorobenzene	0.916	1.079		17.8	
1,2-Dibromo-3-chloropropane	0.087	0.100		15.1	
1,2,4-Trichlorobenzene	0.543	0.661		21.8	

Not reported.

All other compounds must meet a minimum RRF of 0.010.

AECOM049 V407

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix Spike - EPA Sample No.: SB-3 (4'-5') Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	55	0	27	49*	59-172
Trichloroethene	55	0	30	53*	62-137
Benzene	55	0	41	73	66-142
Toluene	55	0	42	76	59-139
Chlorobenzene	55	0	39	70	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	55	26	47*	4	22	59-172
Trichloroethene	55	28	51*	4	24	62-137
Benzene	55	40	71	3	21	66-142
Toluene	55	40	72	5	21	59-139
Chlorobenzene	55	37	67	4	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 4 out of 10 outside limits

COMMENTS: _____

AECOM049 V6

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-33167

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1´-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM049 B757

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-33167

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	72	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM049 B758

1G

EPA SAMPLE NO.

MB-33167

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted:(Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µl) Date Analyzed: 10/12/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM049 B759

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/12/09

Lab File ID (Standard): 9\N34565.D Time Analyzed: 17:01

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	213143	4.33	742887	5.85	445003	8.88
	UPPER LIMIT	426286	4.83	1485774	6.35	890006	9.38
	LOWER LIMIT	106572	3.83	371444	5.35	222502	8.38
	EPA SAMPLE NO.						
01	MB-33167	181572	4.33	662330	5.84	400275	8.87
02	LFB-33167	210691	4.33	767274	5.84	464759	8.87
03	SB-5(52'-54')	228638	4.33	831674	5.84	512487	8.87
04	SB-3(4'-5')MSD	246490	4.33	875355	5.84	521269	8.87
05	SB-17(1'-2')	238900	4.33	910049	5.87	494643	8.88
06	SB-5(28'-30')	225965	4.33	841492	5.89	496046	8.89
07	SB-8(2'-3')	197030	4.33	727909	5.84	433423	8.87
08	SB-5(16'-18')	121981	4.34	323517*	5.93	444257	8.98

-43.5%

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM049 B40

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/12/09

Lab File ID (Standard): 9\N34565.D Time Analyzed: 17:01

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	730217	11.76	831830	14.91	667613	16.00
	UPPER LIMIT	1460434	12.26	1663660	15.41	1335226	16.50
	LOWER LIMIT	365109	11.26	415915	14.41	333807	15.50
	EPA SAMPLE NO.						
01	MB-33167	655540	11.75	688844	14.91	595122	16.00
02	LFB-33167	766938	11.75	864909	14.91	709747	16.01
03	SB-5(52'-54')	824964	11.74	860141	14.91	751045	16.00
04	SB-3(4'-5')MSD	849336	11.75	858446	14.90	668500	15.99
05	SB-17(1'-2')	783804	11.86	434597	15.01	258929* 38.8%	16.07
06	SB-5(28'-30')	819755	11.80	809528	14.93	368711	16.00
07	SB-8(2'-3')	700176	11.75	684275	14.91	349265	16.00
08	SB-5(16'-18')	581655	11.94	214212* 25.8%	15.03	144601* 21.6%	16.04

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM049 B41

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/16/09

Lab File ID (Standard): 9\N34667.D Time Analyzed: 16:57

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	852767	11.60	961744	14.83	827717	15.90
	UPPER LIMIT	1705534	12.10	1923488	15.33	1655434	16.40
	LOWER LIMIT	426384	11.10	480872	14.33	413859	15.40
	EPA SAMPLE NO.						
01	MB-33232	721995	11.59	738720	14.82	651378	15.90
02	LFB-33232	928501	11.60	1028370	14.83	862939	15.90
03	SB-7(6'-8')	809831	11.68	602848	14.88	323645*	15.93

39.1%

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM049 B45

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/02/09 15:33

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1100	68	37-137
Benzaldehyde	1700	0	430	26*	40-140
Phenol	1700	0	1200	73	25-131
Bis(2-chloroethyl)ether	1700	0	1400	82	39-111
2-Chlorophenol	1700	0	1300	79	48-116
2-Methylphenol	1700	0	1200	75	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	75	28-146
Acetophenone	1700	0	1300	77	60-140
N-Nitroso-di-n-propylamine	1700	0	1100	68	40-124
Hexachloroethane	1700	0	1200	73	41-119
Nitrobenzene	1700	0	1200	74	48-126
Isophorone	1700	0	1200	73	33-131
2-Nitrophenol	1700	0	1300	77	41-121
2,4-Dimethylphenol	1700	0	970	58	39-135
Bis(2-chloroethoxy)methane	1700	0	1300	76	20-148
2,4-Dichlorophenol	1700	0	1300	77	46-130
Naphthalene	1700	0	1200	72	47-117
4-Chloroaniline	1700	0	1100	65	25-133
Hexachlorobutadiene	1700	0	1200	71	11-135
Caprolactam	1700	0	1300	76	40-140
4-Chloro-3-methylphenol	1700	0	1300	77	45-135
2-Methylnaphthalene	1700	0	1200	74	60-140
Hexachlorocyclopentadiene	1700	0	930	56	13-119
2,4,6-Trichlorophenol	1700	0	1300	79	53-131
2,4,5-Trichlorophenol	1700	0	1300	81	48-132
1,1'-Biphenyl	1700	0	1300	78	40-140
2-Chloronaphthalene	1700	0	1100	65	47-123
2-Nitroaniline	1700	0	1300	80	41-131
Dimethylphthalate	1700	0	1300	78	10-162
2,6-Dinitrotoluene	1700	0	1300	76	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/02/09 15:33

Acenaphthylene	1700	0	1200	72	61-135
3-Nitroaniline	1700	0	1300	78	11-167
Acenaphthene	1700	0	1300	76	36-132
2,4-Dinitrophenol	1700	0	1400	83	11-101
4-Nitrophenol	1700	0	1400	84	22-156
Dibenzofuran	1700	0	1300	77	24-156
2,4-Dinitrotoluene	1700	0	1300	77	48-134
Diethylphthalate	1700	0	1300	77	24-156
Fluorene	1700	0	1300	76	55-129
4-Chlorophenyl-phenylether	1700	0	1300	76	50-130
4-Nitroaniline	1700	0	1300	76	14-136
4,6-Dinitro-2-methylphenol	1700	0	1500	87	47-107
N-Nitrosodiphenylamine	1700	0	1000	61	27-135
4-Bromophenyl-phenylether	1700	0	1200	74	50-142
Hexachlorobenzene	1700	0	1200	75	56-154
Atrazine	1700	0	1400	86	40-140
Pentachlorophenol	1700	0	1300	78	12-124
Phenanthrene	1700	0	1300	77	57-135
Anthracene	1700	0	1200	74	61-135
Carbazole	1700	0	1200	73	47-143
Di-n-butyl phthalate	1700	0	1400	84	44-144
Fluoranthene	1700	0	1400	82	61-135
Pyrene	1700	0	1300	81	58-136
Butyl benzyl phthalate	1700	0	1500	87	49-135
3,3'-Dichlorobenzidine	1700	0	1200	69	20-132
Benzo(a)anthracene	1700	0	1400	82	56-136
Chrysene	1700	0	1300	80	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	91	33-193
Di-n-octyl phthalate	1700	0	1500	89	45-155
Benzo(b)fluoranthene	1700	0	1300	78	43-147
Benzo(k)fluoranthene	1700	0	1300	80	53-159
Benzo(a)pyrene	1700	0	1400	84	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	87	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B6

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/02/09 15:33

Dibenzo(a,h)anthracene	1700	0	1400	86	15-185
Benzo(g,h,i)perylene	1700	0	1300	76	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B7

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33079 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/09/09 13:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	77	37-137
Benzaldehyde	1700	0	200	12*	40-140
Phenol	1700	0	1300	77	25-131
Bis(2-chloroethyl)ether	1700	0	1400	86	39-111
2-Chlorophenol	1700	0	1400	83	48-116
2-Methylphenol	1700	0	1400	82	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1400	82	28-146
Acetophenone	1700	0	1500	93	60-140
N-Nitroso-di-n-propylamine	1700	0	1600	94	40-124
Hexachloroethane	1700	0	1300	79	41-119
Nitrobenzene	1700	0	1300	79	48-126
Isophorone	1700	0	1300	77	33-131
2-Nitrophenol	1700	0	1400	82	41-121
2,4-Dimethylphenol	1700	0	1200	73	39-135
Bis(2-chloroethoxy)methane	1700	0	1300	80	20-148
2,4-Dichlorophenol	1700	0	1400	83	46-130
Naphthalene	1700	0	1300	77	47-117
4-Chloroaniline	1700	0	1600	95	25-133
Hexachlorobutadiene	1700	0	1300	76	11-135
Caprolactam	1700	0	1500	91	40-140
4-Chloro-3-methylphenol	1700	0	1400	83	45-135
2-Methylnaphthalene	1700	0	1300	79	60-140
Hexachlorocyclopentadiene	1700	0	970	58	13-119
2,4,6-Trichlorophenol	1700	0	1400	82	53-131
2,4,5-Trichlorophenol	1700	0	1400	82	48-132
1,1'-Biphenyl	1700	0	1500	89	40-140
2-Chloronaphthalene	1700	0	1100	66	47-123
2-Nitroaniline	1700	0	1400	84	41-131
Dimethylphthalate	1700	0	1400	82	10-162
2,6-Dinitrotoluene	1700	0	1300	78	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B9

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33079 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/09/09 13:59

Acenaphthylene	1700	0	1300	76	61-135
3-Nitroaniline	1700	0	1300	80	11-167
Acenaphthene	1700	0	1300	79	36-132
2,4-Dinitrophenol	1700	0	1200	73	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1300	79	24-156
2,4-Dinitrotoluene	1700	0	1300	79	48-134
Diethylphthalate	1700	0	1300	81	24-156
Fluorene	1700	0	1300	79	55-129
4-Chlorophenyl-phenylether	1700	0	1300	80	50-130
4-Nitroaniline	1700	0	1400	82	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	78	47-107
N-Nitrosodiphenylamine	1700	0	1100	65	27-135
4-Bromophenyl-phenylether	1700	0	1300	80	50-142
Hexachlorobenzene	1700	0	1300	79	56-154
Atrazine	1700	0	1700	102	40-140
Pentachlorophenol	1700	0	1300	75	12-124
Phenanthrene	1700	0	1400	82	57-135
Anthracene	1700	0	1300	80	61-135
Carbazole	1700	0	1400	81	47-143
Di-n-butyl phthalate	1700	0	1400	84	44-144
Fluoranthene	1700	0	1400	83	61-135
Pyrene	1700	0	1400	83	58-136
Butyl benzyl phthalate	1700	0	1500	88	49-135
3,3'-Dichlorobenzidine	1700	0	1800	106	20-132
Benzo(a)anthracene	1700	0	1400	83	56-136
Chrysene	1700	0	1400	81	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	92	33-193
Di-n-octyl phthalate	1700	0	1500	90	45-155
Benzo(b)fluoranthene	1700	0	1100	66	43-147
Benzo(k)fluoranthene	1700	0	1700	100	53-159
Benzo(a)pyrene	1700	0	1500	88	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	87	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33079 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/09/09 13:59

Dibenzo(a,h)anthracene	1700	0	1400	87	15-185
Benzo(g,h,i)perylene	1700	0	1300	80	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/12/09 18:06

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1000	62	37-137
Benzaldehyde	1700	0	400	24*	40-140
Phenol	1700	0	1100	63	25-131
Bis(2-chloroethyl)ether	1700	0	1100	67	39-111
2-Chlorophenol	1700	0	1100	69	48-116
2-Methylphenol	1700	0	1200	71	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1100	67	28-146
Acetophenone	1700	0	1300	77	60-140
N-Nitroso-di-n-propylamine	1700	0	1100	65	40-124
Hexachloroethane	1700	0	1100	65	41-119
Nitrobenzene	1700	0	1100	66	48-126
Isophorone	1700	0	1100	64	33-131
2-Nitrophenol	1700	0	1100	68	41-121
2,4-Dimethylphenol	1700	0	1000	62	39-135
Bis(2-chloroethoxy)methane	1700	0	1100	68	20-148
2,4-Dichlorophenol	1700	0	1200	70	46-130
Naphthalene	1700	0	1100	65	47-117
4-Chloroaniline	1700	0	920	55	25-133
Hexachlorobutadiene	1700	0	1000	63	11-135
Caprolactam	1700	0	1400	82	40-140
4-Chloro-3-methylphenol	1700	0	1200	72	45-135
2-Methylnaphthalene	1700	0	1100	68	60-140
Hexachlorocyclopentadiene	1700	0	820	49	13-119
2,4,6-Trichlorophenol	1700	0	1200	72	53-131
2,4,5-Trichlorophenol	1700	0	1200	72	48-132
1,1'-Biphenyl	1700	0	1300	76	40-140
2-Chloronaphthalene	1700	0	1000	63	47-123
2-Nitroaniline	1700	0	1200	74	41-131
Dimethylphthalate	1700	0	1200	75	10-162
2,6-Dinitrotoluene	1700	0	1200	71	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B12

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/12/09 18:06

Acenaphthylene	1700	0	1100	66	61-135
3-Nitroaniline	1700	0	1200	71	11-167
Acenaphthene	1700	0	1200	70	36-132
2,4-Dinitrophenol	1700	0	1100	67	11-101
4-Nitrophenol	1700	0	1200	69	22-156
Dibenzofuran	1700	0	1200	72	24-156
2,4-Dinitrotoluene	1700	0	1200	73	48-134
Diethylphthalate	1700	0	1200	74	24-156
Fluorene	1700	0	1200	70	55-129
4-Chlorophenyl-phenylether	1700	0	1200	70	50-130
4-Nitroaniline	1700	0	1200	73	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	77	47-107
N-Nitrosodiphenylamine	1700	0	990	59	27-135
4-Bromophenyl-phenylether	1700	0	1200	73	50-142
Hexachlorobenzene	1700	0	1200	72	56-154
Atrazine	1700	0	1600	94	40-140
Pentachlorophenol	1700	0	1200	73	12-124
Phenanthrene	1700	0	1300	76	57-135
Anthracene	1700	0	1200	74	61-135
Carbazole	1700	0	1300	76	47-143
Di-n-butyl phthalate	1700	72	1400	82	44-144
Fluoranthene	1700	0	1300	80	61-135
Pyrene	1700	0	1300	78	58-136
Butyl benzyl phthalate	1700	0	1400	86	49-135
3,3'-Dichlorobenzidine	1700	0	1400	82	20-132
Benzo(a)anthracene	1700	0	1300	81	56-136
Chrysene	1700	0	1300	78	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	93	33-193
Di-n-octyl phthalate	1700	0	1500	87	45-155
Benzo(b)fluoranthene	1700	0	1200	71	43-147
Benzo(k)fluoranthene	1700	0	1500	87	53-159
Benzo(a)pyrene	1700	0	1400	85	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	85	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B13

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/12/09 18:06

Dibenzo(a,h)anthracene	1700	0	1400	86	15-185
Benzo(g,h,i)perylene	1700	0	1300	79	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM049 B14

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/16/09 21:24

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	78	37-137
Benzaldehyde	1700	0	540	32*	40-140
Phenol	1700	0	1300	76	25-131
Bis(2-chloroethyl)ether	1700	0	1300	80	39-111
2-Chlorophenol	1700	0	1400	84	48-116
2-Methylphenol	1700	0	1400	86	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1400	85	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	76	40-124
Hexachloroethane	1700	0	1300	78	41-119
Nitrobenzene	1700	0	1400	82	48-126
Isophorone	1700	0	1300	79	33-131
2-Nitrophenol	1700	0	1400	86	41-121
2,4-Dimethylphenol	1700	0	1300	76	39-135
Bis(2-chloroethoxy)methane	1700	0	1400	82	20-148
2,4-Dichlorophenol	1700	0	1500	88	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	70	25-133
Hexachlorobutadiene	1700	0	1300	78	11-135
Caprolactam	1700	0	1200	71	40-140
4-Chloro-3-methylphenol	1700	0	1500	89	45-135
2-Methylnaphthalene	1700	0	1400	85	60-140
Hexachlorocyclopentadiene	1700	0	1100	66	13-119
2,4,6-Trichlorophenol	1700	0	1500	92	53-131
2,4,5-Trichlorophenol	1700	0	1600	94	48-132
1,1'-Biphenyl	1700	0	1500	88	40-140
2-Chloronaphthalene	1700	0	1300	76	47-123
2-Nitroaniline	1700	0	1500	92	41-131
Dimethylphthalate	1700	0	1500	91	10-162
2,6-Dinitrotoluene	1700	0	1500	88	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM049 B15

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/16/09 21:24

Acenaphthylene	1700	0	1400	83	61-135
3-Nitroaniline	1700	0	1400	85	11-167
Acenaphthene	1700	0	1400	86	36-132
2,4-Dinitrophenol	1700	0	1700	103*	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1500	88	24-156
2,4-Dinitrotoluene	1700	0	1500	90	48-134
Diethylphthalate	1700	0	1500	90	24-156
Fluorene	1700	0	1500	88	55-129
4-Chlorophenyl-phenylether	1700	0	1500	90	50-130
4-Nitroaniline	1700	0	1500	87	14-136
4,6-Dinitro-2-methylphenol	1700	0	1800	108*	47-107
N-Nitrosodiphenylamine	1700	0	1200	75	27-135
4-Bromophenyl-phenylether	1700	0	1500	88	50-142
Hexachlorobenzene	1700	0	1500	92	56-154
Atrazine	1700	0	1700	104	40-140
Pentachlorophenol	1700	0	1700	100	12-124
Phenanthrene	1700	0	1600	95	57-135
Anthracene	1700	0	1500	92	61-135
Carbazole	1700	0	1500	90	47-143
Di-n-butyl phthalate	1700	0	1600	97	44-144
Fluoranthene	1700	0	1600	95	61-135
Pyrene	1700	0	1600	95	58-136
Butyl benzyl phthalate	1700	0	1700	100	49-135
3,3'-Dichlorobenzidine	1700	0	1500	89	20-132
Benzo(a)anthracene	1700	0	1600	95	56-136
Chrysene	1700	0	1500	91	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1800	106	33-193
Di-n-octyl phthalate	1700	0	1700	104	45-155
Benzo(b)fluoranthene	1700	0	1400	81	43-147
Benzo(k)fluoranthene	1700	0	1800	108	53-159
Benzo(a)pyrene	1700	0	1700	100	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	92	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM049 B16

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM049

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N

Analysis Date: 10/16/09 21:24

Dibenzo(a,h)anthracene	1700	0	1500	92	15-185
Benzo(g,h,i)perylene	1700	0	1200	74	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM049 B17

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP #	S2 NBZ #	S3 PD5 #	S4 TBP #	S5 FBP #	S6 TPH #	S7 2CP #	S8 DCB #	TOT OUT
01	MB-33027	70	69	75	72	77	90	70	70	0
02	LFB-33027	70	74	78	76	78	80	72	73	0
03	SS-3	78	71	74	84	84	93	71	71	0
04	SS-4	63	57	60	68	68	77	58	57	0
05	SS-5	65	63	72	89	80	101	66	66	0
06	SS-3DL	93	91	97	103	102	100	88	89	0
07	SS-4DL	74	73	76	81	81	76	72	70	0
08	MB-33079	74	78	82	78	81	96	76	76	0
09	LCS-33079	78	83	89	88	88	99	82	77	0
10	LFB-33079	78	84	90	89	87	87	82	83	0
11	DUP-1	63	69	73	84	78	96	66	64	0
12	SS-2	56	64	70	91	83	99	59	56	0
13	SB-3(4'-5')	56	65	69	91	82	101	60	57	0
14	SB-3(4'-5')MS	53	63	68	89	75	99	59	54	0
15	MB-33167	67	71	72	74	74	99	68	67	0
16	LFB-33167	64	69	73	77	74	82	67	67	0
17	SB-5(52'-54')	61	62	67	62	62	87	61	60	0
18	SB-3(4'-5')MSD	57	66	71	89	81	100	62	57	0
19	SB-17(1'-2')	45	58	63	92	81	216 *	53	48	1
20	SB-5(28'-30')	48	55	56	83	73	99	50	48	0
21	SB-8(2'-3')	61	58	65	80	67	99	60	56	0
22	SB-5(16'-18')	53	43	81	70	78	208 *	70	77	1
23	SB-5(16'-18')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
24	SB-5(28'-30')DL	51	53	55	79	84	103	51	75	0
25	SB-17(1'-2')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
26	SB-8(2'-3')DL	61	42	63	74	63	91	60	72	0
27	MB-33232	82	88	92	92	93	109	85	84	0
28	LFB-33232	73	81	83	90	87	93	77	78	0
29	SB-7(6'-8')	87	82	83	102	95	144 *	88	83	1

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(25-121)	
S 2	NBZ	= Nitrobenzene-d5	(23-120)	
S 3	PD5	= Phenol-d5	(24-113)	
S 4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S 5	FBP	= 2-Fluorobiphenyl	(30-115)	
S 6	TPH	= 4-Terphenyl-d14	(18-137)	
S 7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM049 B656

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP #	S2 NBZ #	S3 PD5 #	S4 TBP #	S5 FBP #	S6 TPH #	S7 2CP #	S8 DCB #	TOT OUT
31	SB-7(6'-8')DL	85	85	62	100	105	104	84	98	0

				QC LIMITS	
S 1	2FP	=	2-Fluorophenol	(25-121)	
S 2	NBZ	=	Nitrobenzene-d5	(23-120)	
S 3	PD5	=	Phenol-d5	(24-113)	
S 4	TBP	=	2,4,6-Tribromophenol	(19-122)	
S 5	FBP	=	2-Fluorobiphenyl	(30-115)	
S 6	TPH	=	4-Terphenyl-d14	(18-137)	
S 7	2CP	=	2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	=	1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM049 B657

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date(s): 10/01/09 10/01/09

Calibration Times: 13:28 15:59

LAB FILE ID: SSTD005 N34361.D SSTD010 N34362.D
SSTD025 N34360.D SSTD040 N34363.D SSTD080 N34365.D

COMPOUND		SSTD005	SSTD010	SSTD025	SSTD040	SSTD080	RRF	% RSD	
3-Methylphenol/4-Methylphenol		1.171	1.298	1.342	1.489	1.569	1.374	11.5	
Aniline		1.818	1.937	1.953	2.150	2.265	2.025	8.9	
Benzidine		0.335	0.358	0.415	0.418	0.401	0.385	9.5	
Benzyl alcohol		0.583	0.707	0.720	0.859	0.978	0.769	19.8	
Pyridine		1.330	1.413	1.408	1.425	1.444	1.404	3.1	
Benzaldehyde		0.733	0.882	0.710	0.653	0.359	0.667	28.8	
N-Nitrosodimethylamine		0.659	0.718	0.720	0.747	0.746	0.718	5.0	
Phenol	*	1.711	1.740	1.749	1.912	2.023	1.827	7.4	*
Bis(2-chloroethyl)ether	*	1.154	1.246	1.134	1.272	1.298	1.221	6.0	*
2-Chlorophenol	*	1.228	1.319	1.303	1.417	1.487	1.351	7.5	*
2-Methylphenol	*	1.145	1.206	1.172	1.243	1.264	1.206	4.0	*
2,2'-oxybis(1-chloropropane)		1.821	1.918	1.840	1.956	1.972	1.901	3.6	
Acetophenone		1.388	1.752	1.636	1.854	1.839	1.694	11.3	
N-Nitroso-di-n-propylamine	*	0.894	0.977	0.966	1.052	1.046	0.987	6.6	*
Hexachloroethane	*	0.558	0.599	0.589	0.630	0.641	0.603	5.5	*
Nitrobenzene	*	0.379	0.403	0.397	0.425	0.440	0.409	5.9	*
Isophorone	*	0.666	0.718	0.704	0.747	0.766	0.720	5.4	*
2-Nitrophenol	*	0.183	0.196	0.199	0.220	0.230	0.206	9.1	*
2,4-Dimethylphenol	*	0.321	0.344	0.362	0.392	0.411	0.366	9.9	*
Bis(2-chloroethoxy)methane	*	0.378	0.399	0.400	0.426	0.439	0.408	5.9	*
2,4-Dichlorophenol	*	0.283	0.308	0.308	0.337	0.364	0.320	9.7	*
Naphthalene	*	1.007	1.065	1.064	1.169	1.246	1.110	8.6	*
4-Chloroaniline		0.428	0.461	0.470	0.528	0.560	0.489	10.9	
Hexachlorobutadiene		0.217	0.225	0.223	0.243	0.257	0.233	7.2	
Caprolactam		0.088	0.109	0.109	0.116	0.118	0.108	11.0	
4-Chloro-3-methylphenol	*	0.259	0.293	0.291	0.320	0.334	0.299	9.7	*
2-Methylnaphthalene	*	0.655	0.711	0.704	0.776	0.828	0.735	9.2	*
Hexachlorocyclopentadiene		0.230	0.309	0.356	0.411	0.455	0.352	25.0	
2,4,6-Trichlorophenol	*	0.327	0.364	0.373	0.404	0.441	0.382	11.3	*
2,4,5-Trichlorophenol	*		0.358	0.387	0.418	0.459	0.405	10.7	*
1,1'-Biphenyl		1.260	1.516	1.478	1.720	1.825	1.560	14.1	
2-Chloronaphthalene	*	1.259	1.357	1.371	1.499	1.536	1.404	8.0	*
2-Nitroaniline			0.327	0.333	0.354	0.362	0.344	4.8	
Dimethylphthalate		1.174	1.265	1.238	1.329	1.391	1.279	6.5	
2,6-Dinitrotoluene	*	0.268	0.290	0.297	0.327	0.360	0.308	11.6	*
Acenaphthylene	*	1.643	1.771	1.768	1.953	2.140	1.855	10.4	*
3-Nitroaniline			0.308	0.314	0.331	0.344	0.324	5.0	
Acenaphthene	*	1.082	1.137	1.137	1.248	1.347	1.190	8.9	*
2,4-Dinitrophenol			0.099	0.140	0.172	0.210	0.155	30.5	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B629

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date(s): 10/01/09 10/01/09

Calibration Times: 13:28 15:59

LAB FILE ID: SSTD005 N34361.D SSTD010 N34362.D
SSTD025 N34360.D SSTD040 N34363.D SSTD080 N34365.D

COMPOUND		SSTD005	SSTD010	SSTD025	SSTD040	SSTD080	RRF	% RSD	
4-Nitrophenol			0.175	0.161	0.201	0.204	0.185	11.1	
Dibenzofuran	*	1.451	1.547	1.524	1.658	1.783	1.593	8.1	*
2,4-Dinitrotoluene	*	0.338	0.363	0.371	0.399	0.427	0.380	9.1	*
Diethylphthalate		1.145	1.256	1.225	1.314	1.371	1.262	6.8	
1,2,4,5-Tetrachlorobenzene		0.509	0.602	0.573	0.656	0.708	0.610	12.6	
Fluorene	*	1.179	1.264	1.269	1.411	1.519	1.328	10.2	*
4-Chlorophenyl-phenylether	*	0.592	0.630	0.616	0.683	0.718	0.648	7.9	*
4-Nitroaniline			0.291	0.291	0.319	0.330	0.308	6.4	
4,6-Dinitro-2-methylphenol			0.113	0.131	0.153	0.171	0.142	17.7	
N-Nitrosodiphenylamine		0.599	0.663	0.675	0.736	0.793	0.693	10.7	
1,2-Diphenylhydrazine		0.770	0.824	0.827	0.886	0.903	0.842	6.3	
4-Bromophenyl-phenylether	*	0.234	0.245	0.248	0.273	0.287	0.257	8.7	*
Hexachlorobenzene	*	0.270	0.282	0.284	0.316	0.328	0.296	8.3	*
Atrazine		0.197	0.234	0.217	0.235	0.222	0.221	7.1	
Pentachlorophenol	*		0.132	0.161	0.193	0.214	0.175	20.6	*
Phenanthrene	*	1.051	1.123	1.128	1.241	1.295	1.167	8.4	*
Anthracene	*	1.025	1.131	1.194	1.343	1.418	1.222	13.0	*
Carbazole		0.879	1.023	1.043	1.156	1.202	1.060	11.9	
Di-n-butyl phthalate		1.165	1.312	1.327	1.442	1.468	1.343	9.0	
Fluoranthene	*	1.078	1.208	1.224	1.358	1.394	1.252	10.1	*
Pyrene	*	1.136	1.169	1.175	1.243	1.268	1.198	4.6	*
Butyl benzyl phthalate		0.498	0.513	0.502	0.538	0.545	0.519	4.1	
3,3'-Dichlorobenzidine		0.342	0.355	0.415	0.403	0.401	0.383	8.4	
Benzo(a)anthracene	*	1.011	1.087	1.099	1.190	1.151	1.107	6.2	*
Chrysene	*	0.896	0.971	0.989	1.052	1.071	0.996	7.0	*
Bis(2-ethylhexyl)phthalate		0.654	0.676	0.683	0.731	0.752	0.699	5.8	
Di-n-octyl phthalate		1.267	1.357	1.412	1.569	1.675	1.456	11.3	
Benzo(b)fluoranthene	*	1.113	1.350	1.411	1.641	1.665	1.436	15.8	*
2,3,4,6-Tetrachlorophenol		0.276	0.328	0.329	0.363	0.399	0.339	13.5	
Benzo(k)fluoranthene	*	1.122	1.090	1.148	1.256	1.099	1.143	5.9	*
Benzo(a)pyrene	*	0.913	1.046	1.112	1.247	1.335	1.131	14.7	*
Indeno(1,2,3-cd)pyrene	*	0.939	1.088	1.158	1.315	1.397	1.179	15.4	*
Dibenzo(a,h)anthracene	*	0.749	0.882	0.966	1.116	1.201	0.983	18.4	*
Benzo(g,h,i)perylene	*	0.805	0.926	0.948	1.063	1.137	0.976	13.2	*

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B630

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date(s): 10/01/09 10/01/09

Calibration Times: 13:28 15:59

LAB FILE ID: SSTD005 N34361.D SSTD010 N34362.D
SSTD025 N34360.D SSTD040 N34363.D SSTD080 N34365.D

COMPOUND		SSTD005	SSTD010	SSTD025	SSTD040	SSTD080	RRF	% RSD	
2-Fluorophenol	*	1.105	1.157	1.177	1.142	1.250	1.166	4.6	*
Nitrobenzene-d5	*	0.397	0.340	0.406	0.418	0.409	0.394	7.9	*
Phenol-d5	*	1.374	1.444	1.502	1.508	1.686	1.503	7.7	*
2,4,6-Tribromophenol		0.192	0.219	0.235	0.237	0.265	0.229	11.7	
2-Fluorobiphenyl	*	1.295	1.111	1.277	1.356	1.414	1.291	8.8	*
4-Terphenyl-d14	*	0.803	0.693	0.814	0.837	0.824	0.794	7.3	*
2-Chlorophenol-d4	*	1.217	1.279	1.323	1.343	1.510	1.334	8.2	*
1,2-Dichlorobenzene-d4	*	0.908	0.788	0.919	1.017	1.014	0.929	10.1	*

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B631

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date: 10/9/200 Time: 10:59

Lab File ID: 9\N34537.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.280		-6.8	
Benzaldehyde	0.667	0.480		-28.1	
Phenol	1.827	1.647	0.800	-9.9	25.0
Bis(2-chloroethyl)ether	1.221	1.071	0.700	-12.3	25.0
2-Chlorophenol	1.351	1.286	0.800	-4.8	25.0
2-Methylphenol	1.206	1.093	0.700	-9.4	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.632		-14.2	
Acetophenone	1.694	1.569		-7.4	
N-Nitroso-di-n-propylamine	0.987	0.909	0.500	-7.9	25.0
Hexachloroethane	0.603	0.569	0.300	-5.7	25.0
Nitrobenzene	0.409	0.370	0.200	-9.5	25.0
Isophorone	0.720	0.655	0.400	-9.0	25.0
2-Nitrophenol	0.206	0.198	0.100	-3.7	25.0
2,4-Dimethylphenol	0.366	0.345	0.200	-5.7	25.0
Bis(2-chloroethoxy)methane	0.408	0.375	0.300	-8.1	25.0
2,4-Dichlorophenol	0.320	0.307	0.200	-4.0	25.0
Naphthalene	1.110	1.062	0.700	-4.3	25.0
4-Chloroaniline	0.489	0.472		-3.5	
Hexachlorobutadiene	0.233	0.221		-5.1	
Caprolactam	0.108	0.099		-8.4	
4-Chloro-3-methylphenol	0.299	0.284	0.200	-5.1	25.0
2-Methylnaphthalene	0.735	0.715	0.400	-2.7	25.0
Hexachlorocyclopentadiene	0.352	0.354		0.5	
2,4,6-Trichlorophenol	0.382	0.367	0.200	-3.9	25.0
2,4,5-Trichlorophenol	0.405	0.392	0.200	-3.2	25.0
1,1'-Biphenyl	1.560	1.489		-4.6	
2-Chloronaphthalene	1.404	1.392	0.800	-0.9	25.0
2-Nitroaniline	0.344	0.307		-10.7	
Dimethylphthalate	1.279	1.202		-6.1	
2,6-Dinitrotoluene	0.308	0.304	0.200	-1.4	25.0
Acenaphthylene	1.855	1.795	1.300	-3.2	25.0
3-Nitroaniline	0.324	0.308		-5.0	
Acenaphthene	1.190	1.129	0.800	-5.1	25.0
2,4-Dinitrophenol	0.155	0.133		-14.4	
4-Nitrophenol	0.185	0.177		-4.5	
Dibenzofuran	1.593	1.561	0.800	-2.0	25.0
2,4-Dinitrotoluene	0.380	0.374	0.200	-1.5	25.0
Diethylphthalate	1.262	1.199		-5.0	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B682

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date: 10/12/20 Time: 17:01

Lab File ID: 9\N34565.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.356		-1.3	
Benzaldehyde	0.667	0.457		-31.5	
Phenol	1.827	1.704	0.800	-6.7	25.0
Bis(2-chloroethyl)ether	1.221	1.164	0.700	-4.6	25.0
2-Chlorophenol	1.351	1.303	0.800	-3.5	25.0
2-Methylphenol	1.206	1.105	0.700	-8.4	25.0
2,2´-oxybis(1-chloropropane)	1.901	1.697		-10.8	
Acetophenone	1.694	1.621		-4.3	
N-Nitroso-di-n-propylamine	0.987	1.131	0.500	14.6	25.0
Hexachloroethane	0.603	0.576	0.300	-4.5	25.0
Nitrobenzene	0.409	0.372	0.200	-9.0	25.0
Isophorone	0.720	0.678	0.400	-5.8	25.0
2-Nitrophenol	0.206	0.200	0.100	-2.7	25.0
2,4-Dimethylphenol	0.366	0.351	0.200	-4.1	25.0
Bis(2-chloroethoxy)methane	0.408	0.371	0.300	-9.1	25.0
2,4-Dichlorophenol	0.320	0.306	0.200	-4.3	25.0
Naphthalene	1.110	1.063	0.700	-4.3	25.0
4-Chloroaniline	0.489	0.465		-4.9	
Hexachlorobutadiene	0.233	0.218		-6.4	
Caprolactam	0.108	0.100		-7.5	
4-Chloro-3-methylphenol	0.299	0.290	0.200	-3.1	25.0
2-Methylnaphthalene	0.735	0.715	0.400	-2.7	25.0
Hexachlorocyclopentadiene	0.352	0.355		0.8	
2,4,6-Trichlorophenol	0.382	0.378	0.200	-1.0	25.0
2,4,5-Trichlorophenol	0.405	0.403	0.200	-0.5	25.0
1,1´-Biphenyl	1.560	1.509		-3.3	
2-Chloronaphthalene	1.404	1.289	0.800	-8.2	25.0
2-Nitroaniline	0.344	0.318		-7.5	
Dimethylphthalate	1.279	1.231		-3.8	
2,6-Dinitrotoluene	0.308	0.309	0.200	0.2	25.0
Acenaphthylene	1.855	1.834	1.300	-1.1	25.0
3-Nitroaniline	0.324	0.316		-2.6	
Acenaphthene	1.190	1.149	0.800	-3.4	25.0
2,4-Dinitrophenol	0.155	0.122		-21.5	
4-Nitrophenol	0.185	0.214		15.4	
Dibenzofuran	1.593	1.579	0.800	-0.9	25.0
2,4-Dinitrotoluene	0.380	0.380	0.200	0.1	25.0
Diethylphthalate	1.262	1.233		-2.3	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B690

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Instrument ID: HP5973N Calibration Date: 10/16/20 Time: 16:57

Lab File ID: 9\N34667.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.330		-3.2	
Benzaldehyde	0.667	0.355		-46.8	
Phenol	1.827	1.717	0.800	-6.0	25.0
Bis(2-chloroethyl)ether	1.221	1.166	0.700	-4.5	25.0
2-Chlorophenol	1.351	1.303	0.800	-3.5	25.0
2-Methylphenol	1.206	1.100	0.700	-8.8	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.690		-11.1	
Acetophenone	1.694	1.576		-7.0	
N-Nitroso-di-n-propylamine	0.987	0.920	0.500	-6.8	25.0
Hexachloroethane	0.603	0.564	0.300	-6.5	25.0
Nitrobenzene	0.409	0.367	0.200	-10.2	25.0
Isophorone	0.720	0.670	0.400	-6.9	25.0
2-Nitrophenol	0.206	0.198	0.100	-3.7	25.0
2,4-Dimethylphenol	0.366	0.350	0.200	-4.3	25.0
Bis(2-chloroethoxy)methane	0.408	0.384	0.300	-5.9	25.0
2,4-Dichlorophenol	0.320	0.306	0.200	-4.3	25.0
Naphthalene	1.110	1.064	0.700	-4.2	25.0
4-Chloroaniline	0.489	0.476		-2.7	
Hexachlorobutadiene	0.233	0.219		-6.0	
Caprolactam	0.108	0.099		-8.4	
4-Chloro-3-methylphenol	0.299	0.289	0.200	-3.5	25.0
2-Methylnaphthalene	0.735	0.718	0.400	-2.3	25.0
Hexachlorocyclopentadiene	0.352	0.317		-10.0	
2,4,6-Trichlorophenol	0.382	0.377	0.200	-1.2	25.0
2,4,5-Trichlorophenol	0.405	0.400	0.200	-1.3	25.0
1,1'-Biphenyl	1.560	1.487		-4.7	
2-Chloronaphthalene	1.404	1.311	0.800	-6.6	25.0
2-Nitroaniline	0.344	0.309		-10.1	
Dimethylphthalate	1.279	1.249		-2.4	
2,6-Dinitrotoluene	0.308	0.307	0.200	-0.5	25.0
Acenaphthylene	1.855	1.821	1.300	-1.8	25.0
3-Nitroaniline	0.324	0.305		-6.0	
Acenaphthene	1.190	1.146	0.800	-3.7	25.0
2,4-Dinitrophenol	0.155	0.141		-9.2	
4-Nitrophenol	0.185	0.202		9.0	
Dibenzofuran	1.593	1.588	0.800	-0.3	25.0
2,4-Dinitrotoluene	0.380	0.382	0.200	0.6	25.0
Diethylphthalate	1.262	1.280		1.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM049 B707

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-32987	86	80	100	98			0
02	LFB1-32987	88	79	100	98			0
03	LFB3-32987	63	64	88	81			0
04	SS-3	87	81	491 *	547 *			2
05	SS-4	79	56	552 *	693 *			2
06	MB-33041	87	94	96	93			0
07	LFB1-33041	78	81	88	87			0
08	LFB3-33041	76	69	83	80			0
09	LCS-33041	89	95	109	108			0
10	SS-4DL	91	79	536 D	659 D			0
11	SS-5	80	64	1020 *	1680 *			2
12	DUP-1	96	86	396 *	586 *			2
13	SB-3 (4'-5')	71	64	240 *	248 *			2
14	SB-3 (4'-5')MS	83	73	247 *	287 *			2
15	SB-3 (4'-5')MSD	82	72	349 *	394 *			2
16	SS-2	87	64	311 *	421 *			2
17	SB-17 (1'-2')	106	103	203 *	203 *			2
18	MB-33132	76	75	88	87			0
19	LFB1-33132	83	81	109	107			0
20	LFB3-33132	65	63	83	78			0
21	SB-5 (52'-54')	93	88	114	107			0
22	SB-8 (2'-3')	78	91	164 *	488 *			2
23	SB-5 (28'-30')	68	109	171 *	490 *			2
24	SB-5 (16'-18')	116	55	644 *	103			1

QC Limits

TCX = Tetrachloro-m-xylene (30-150)

DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

AECOM049 PE3

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
25	SB-17 (1'-2')DL	64	21 *	1120 *	4680 *			0
26	SB-5 (28'-30')DL	94	139	397 D *	932 D *			0
27	SB-5 (16'-18')DL	0 D	0 D	0 D	0 D			0
28	MB-33270	86	101	104	115			0
29	LFB1-33270	92	105	104	115			0
30	LFB3-33270	91	95	118	130			0
31	SB-7 (6'-8')	1110 *	33	1020 *	1210 *			3

SB 2/27/09

QC Limits

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

AECOM049 PE4

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910491-002B Date(s) Analyzed: 09/30/09 09/30/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Aldrin	1	4.94	4.84	4.94	2.4		
	2	4.84	4.79	4.89	1.1	118.2	74.3 - U@SQL
Heptachlor epoxide	1	5.78	5.73	5.87	4.0		
	2	5.70	5.64	5.78	4.1	2.5	2.5 - OK
Dieldrin	1	6.70	6.63	6.77	11		
	2	6.68	6.61	6.75	2.0	450.0	139 - U@SQL
4,4´-DDE	1	6.30	6.23	6.37	34		
	2	6.48	6.41	6.55	12	183.3	95.65 - NJ
Endrin	1	6.92	6.91	7.05	5.3		
	2	7.06	6.97	7.11	2.7	96.3	65 - U@SQL
4,4´-DDD	1	7.04	6.98	7.12	110		
	2	7.17	7.10	7.24	25	340.0	126 - NJ
Endosulfan sulfate	1	8.06	8.00	8.14	(2.1)		
	2	7.87	7.80	7.94	6.7	219.0	105 - U@SQL
4,4´-DDT	1	7.35	7.28	7.42	31		
	2	7.50	7.43	7.57	37	19.4	17.65 - OK
Endrin ketone	1	8.30	8.25	8.39	8.6		
	2	8.35	8.26	8.40	6.9	24.6	21.94 - OK

AECOM049 PE276

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910491-002B Date(s) Analyzed: 09/30/09 09/30/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

Endrin aldehyde	1	7.66	7.60	7.74	5.2		
	2	7.60	7.54	7.68	9.6	84.6	59.46 - J
alpha-Chlordane	1	6.19	6.12	6.26	22		
	2	6.23	6.16	6.30	16	37.5	31.58 - OK
gamma-Chlordane	1	5.99	5.92	6.06	21		
	2	6.01	5.94	6.08	17	23.5	21.05 - OK

AECOM049 PE277

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910491-003B Date(s) Analyzed: 09/30/09 09/30/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
delta-BHC	1	4.22	4.14	4.24	4.8		
	2	4.30	4.24	4.34	5.6	16.7	15.38-OK
Heptachlor	1	4.47	4.42	4.52	3.0		
	2	4.39	4.34	4.44	2.1	42.9	35.29-OK
Heptachlor epoxide	1	5.79	5.73	5.87	15		
	2	5.71	5.64	5.78	4.1	265.9	114-NJ
Dieldrin	1	6.70	6.63	6.77	15		
	2	6.67	6.61	6.75	8.4	78.6	56.41-J
4,4´-DDE	1	6.30	6.23	6.37	25		
	2	6.48	6.41	6.55	18	38.9	32.56-OK
Endosulfan sulfate	1	8.07	8.00	8.14	17	↓ harr.	[illegible] 10/25/09
	2	7.87	7.80	7.94	9.0	88.9	61.54-J
4,4´-DDT	1	7.35	7.28	7.42	31		
	2	7.50	7.43	7.57	33	6.5	6.25-OK
Endrin ketone	1	8.30	8.25	8.39	10		
	2	8.35	8.26	8.40	7.2	38.9	32.56-OK
alpha-Chlordane	1	6.19	6.12	6.26	38		
	2	6.23	6.16	6.30	30	26.7	23.53 - Do not use overcal

page 1 of 2

FORM X PEST- 1 OLM04.2

AECOM049 PE278

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910491-003B Date(s) Analyzed: 09/30/09 09/30/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

RPD

gamma-Chlordane	1	5.99	5.92	6.06	43	
	2	6.01	5.94	6.08	31	38.7

32.43 - Do not use. Overcal.

AECOM049 PE279

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-4DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910491-003BDL Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
delta-BHC	1	4.17	4.10	4.20	5.3	
	2	4.26	4.20	4.30	7.0	32.1
Heptachlor epoxide	1	5.73	5.67	5.81	11	
	2	5.66	5.59	5.73	5.8	89.7
Dieldrin	1	6.65	6.58	6.72	13	
	2	6.63	6.57	6.71	12	8.3
4,4'-DDE	1	6.24	6.17	6.31	28	
	2	6.44	6.37	6.51	16	75.0
4,4'-DDT	1	7.31	7.24	7.38	32	
	2	7.47	7.40	7.54	36	12.5
alpha-Chlordane	1	6.13	6.07	6.21	39	
	2	6.19	6.12	6.26	37	5.4
gamma-Chlordane	1	5.93	5.86	6.00	41	
	2	5.97	5.89	6.03	38	7.9

RPD

Reporting from undiluted run.

5.26

7.59

AECOM049 PE280

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910571-001B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
delta-BHC	1	4.17	4.10	4.20	3.0		
	2	4.26	4.20	4.30	1.5	100.0	66.7 - U@SQL
Heptachlor	1	4.42	4.37	4.47	2.0		
	2	4.36	4.31	4.41	1.7	17.6	16.22 - OK
Heptachlor epoxide	1	5.74	5.67	5.81	3.9		
	2	5.66	5.59	5.73	4.5	15.4	14.29 - OK
Endosulfan I	1	6.34	6.27	6.41	4.1		
	2	6.27	6.20	6.34	1.6	156.2	87.8 - U@SQL
Dieldrin	1	6.65	6.58	6.72	12		
	2	6.63	6.57	6.71	7.1	69.0	51.3 - J
4,4´-DDE	1	6.25	6.17	6.31	22		
	2	6.47	6.37	6.51	46	109.1	70.6 - NJ
Endrin	1	6.96	6.87	7.01	31		
	2	7.02	6.93	7.07	3.9	694.9	187 - NJ
Endosulfan II	1	7.19	7.12	7.26	2.2		
	2	7.24	7.16	7.30	22	900.0	164 - ~~NJ~~ U@SQL
4,4´-DDD	1	6.99	6.94	7.08	73		
	2	7.14	7.07	7.21	8.5	758.8	158 - NJ

AECOM049 PE281

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910571-001B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

Endosulfan sulfate	1	8.07	7.96	8.10	160		
	2	7.84	7.77	7.91	7.8	999.9	181 - NJ
4,4'-DDT	1	7.32	7.24	7.38	78		
	2	7.47	7.40	7.54	55	43.2	34.5 - OK
Endrin ketone	1	8.26	8.21	8.35	41		
	2	8.28	8.23	8.37	28	46.4	37.68 - OK
alpha-Chlordane	1	6.13	6.07	6.21	34		
	2	6.19	6.12	6.26	28	21.4	19.35 - OK
gamma-Chlordane	1	5.94	5.86	6.00	37		
	2	5.97	5.89	6.03	29	27.6	24.24 - OK

AECOM049 PE282

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
DUP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-001B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Aldrin	1	4.87	4.78	4.88	1.5		
	2	4.81	4.75	4.85	4.6	206.7	101.64 - U@SQL
Heptachlor epoxide	1	5.73	5.67	5.81	3.0		
	2	5.65	5.59	5.73	3.8	26.7	23.53 - OK
Dieldrin	1	6.64	6.58	6.72	6.1		
	2	6.62	6.57	6.71	8.6	41.0	34.01 - OK
4,4´-DDE	1	6.24	6.17	6.31	10		
	2	6.44	6.37	6.51	2.9	244.8	110 - U@SQL
Endosulfan sulfate	1	8.03	7.96	8.10	11		
	2	7.84	7.77	7.91	2.6	323.1	123 - U@SQL
4,4´-DDT	1	7.31	7.24	7.38	24		
	2	7.47	7.40	7.54	30	25.0	22.22 - OK
Endrin ketone	1	8.26	8.21	8.35	7.5		
	2	8.32	8.23	8.37	7.1	5.6	5.48 - OK
alpha-Chlordane	1	6.13	6.07	6.21	9.5		
	2	6.19	6.12	6.26	7.9	20.3	18.39 - OK
gamma-Chlordane	1	5.93	5.86	6.00	10		
	2	5.96	5.89	6.03	11	10.0	9.52 - OK

AECOM049 PE283

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-003B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
delta-BHC	1	4.16	4.10	4.20	2.7		
	2	4.28	4.20	4.30	12	344.4	127 - NJ
gamma-BHC	1	3.87	3.79	3.89	1.6		
	2	3.79	3.75	3.85	130	999.9	195 - U@SQL
Heptachlor	1	4.45	4.37	4.47	3.6		123
	2	4.39	4.31	4.41	15	316.7	~~89.9~~ - NJ
Aldrin	1	4.87	4.78	4.88	53		
	2	4.78	4.75	4.85	18	194.4	98.59 - NJ
Heptachlor epoxide	1	5.77	5.67	5.81	38		
	2	5.68	5.59	5.73	100	176.9	89.9 - Over range
Dieldrin	1	6.66	6.58	6.72	71		
	2	6.63	6.57	6.71	29	144.8	84 - NJ
4,4'-DDE	1	6.22	6.17	6.31	28		
	2	6.44	6.37	6.51	77	175.0	93 - Use dilution better precision
Endrin	1	6.92	6.87	7.01	76		
	2	6.97	6.93	7.07	190	150.0	85.7 - Over range
Endosulfan II	1	7.19	7.12	7.26	32		
	2	7.27	7.16	7.30	140	337.5	126 - ~~NJ~~ Use dilution both results in range

AECOM049 PE284

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-003B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

RPD

4,4'-DDD	1	7.00	6.94	7.08	420	793.6	160 - Use dilution both results in range
	2	7.16	7.07	7.21	47		
Endosulfan sulfate	1	8.03	7.96	8.10	270	831.0	161 - Use dilution too much interference
	2	7.87	7.77	7.91	29		
4,4'-DDT	1	7.31	7.24	7.38	480	999.9	157 - Overrange
	2	7.47	7.40	7.54	58		
Methoxychlor	1	7.81	7.72	7.86	180	61.1	46.8 - J
	2	8.10	8.03	8.17	290		
Endrin ketone	1	8.27	8.21	8.35	83	186.2	96.4 - NJ
	2	8.27	8.23	8.37	29		
Endrin aldehyde	1	7.60	7.55	7.69	320	190.9	97.7 - Overrange
	2	7.59	7.51	7.65	110		
alpha-Chlordane	1	6.09	6.07	6.21	15	900.0	164 - NJ
	2	6.23	6.12	6.26	150		
gamma-Chlordane	1	5.94	5.86	6.00	20	900.0	164 - Use diluted run. Better precision
	2	5.93	5.89	6.03	200		

AECOM049 PE285

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SB-17 (1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-003BDL Date(s) Analyzed: /13/2009 /13/2009

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Heptachlor epoxide	1	5.66	5.60	5.74	9.7		
	2	5.59	5.52	5.66	39	287.8	120.33 - NJ
Dieldrin	1	6.59	6.53	6.67	26		
	2	6.56	6.52	6.66	84	223.1	105 - use undiluted
4,4'-DDE	1	6.18	6.12	6.26	47		
	2	6.41	6.32	6.46	78	62.5	49.6 - J
Endrin	1	6.90	6.82	6.96	12		
	2	6.97	6.93	7.07	14	15.1	15.4 - OK
Endosulfan II	1	7.13	7.07	7.21	14		
	2	7.20	7.12	7.26	38	163.9	92.3 - NJ
4,4'-DDD	1	6.94	6.89	7.03	120		
	2	7.10	7.03	7.17	11	999.9	169 - NJ
4,4'-DDT	1	7.24	7.20	7.34	170		
	2	7.43	7.35	7.49	110	57.4	42.9 - J
Endrin ketone	1	8.22	8.17	8.31	19		
	2	8.24	8.19	8.33	71	272.3	116 - use undiluted
Endrin aldehyde	1	7.61	7.51	7.65	20		
	2	7.53	7.47	7.61	44	152.9	75 - ~~UQ SQL~~ NJ

FORM X PEST- 1 SW8081/8082

AECOM049 PE286 Revised CLG 27-Jan-10

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

SB-17 (1'-2')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-003BDL Date(s) Analyzed: /13/2009 /13/2009

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

RPD

gamma-Chlordane	1	5.85	5.79	5.93	32	
	2	5.89	5.83	5.97	41	25.0

25-OK

AECOM049 PE287 Revised CLG 27-Jan-10

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SS-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-004B Date(s) Analyzed: 10/05/09 10/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Heptachlor	1	4.41	4.37	4.47	1.4		
	2	4.38	4.31	4.41	1.5	7.1	6.9 - OK
Heptachlor epoxide	1	5.74	5.67	5.81	2.2		
	2	5.66	5.59	5.73	2.5	13.6	12.77 - OK
Dieldrin	1	6.65	6.58	6.72	4.6		
	2	6.64	6.57	6.71	3.1	48.4	38.96 - OK
4,4´-DDE	1	6.24	6.17	6.31	8.4		
	2	6.45	6.37	6.51	3.6	133.3	80 - NJ
Endosulfan sulfate	1	8.02	7.96	8.10	1.9		
	2	7.84	7.77	7.91	5.2	173.7	93 - U@SQL
4,4´-DDT	1	7.31	7.24	7.38	22		
	2	7.47	7.40	7.54	19	15.8	14.63 - OK
Endrin ketone	1	8.26	8.21	8.35	4.6		
	2	8.28	8.23	8.37	5.6	21.7	19.61 - OK
alpha-Chlordane	1	6.13	6.07	6.21	14		
	2	6.19	6.12	6.26	9.9	41.4	34.31 - OK
gamma-Chlordane	1	5.93	5.86	6.00	13		
	2	5.97	5.89	6.03	11	18.2	16.7 - OK

AECOM049 PE288

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-001B Date(s) Analyzed: 10/10/09 10/10/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
delta-BHC	1	4.11	4.05	4.15	3.3	
	2	4.22	4.15	4.25	2.1	57.1
Heptachlor epoxide	1	5.66	5.60	5.74	19	
	2	5.57	5.52	5.66	3.8	400.0
Dieldrin	1	6.60	6.53	6.67	4.8	
	2	6.56	6.52	6.66	17	254.2
4,4'-DDE	1	0.00	0.00	0.00	16	
	2	6.37	6.32	6.46	30	84.0
Endrin	1	6.87	6.82	6.96	29	
	2	6.92	6.88	7.02	10	190.0
Endosulfan II	1	7.13	7.07	7.21	110	
	2	7.20	7.12	7.26	78	41.0
4,4'-DDD	1	6.96	6.89	7.03	65	
	2	7.10	7.03	7.17	7.4	778.4
Endosulfan sulfate	1	8.01	7.92	8.06	* 73	
	2	7.79	7.73	7.87	140	91.8
4,4'-DDT	1	7.27	7.20	7.34	310	
	2	0.00	0.00	0.00	* 73	321.8

RPD

44.44 - J

133 - NJ

112 - NJ

use dilution
61 - better precision

97 - NJ

34 - over range

Do not use
use dilution

over range
use
dilution

* saturated → default value = highest cal. level. is reported. Use other column

AECOM049 PE289

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-5 (16'-18')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-001B Date(s) Analyzed: 10/10/09 10/10/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

Methoxychlor	1	7.78	7.68	7.82	210		
	2	8.07	7.99	8.13	90	133.3	80 – NS
Endrin ketone	1	8.26	8.17	8.31	87		
	2	8.25	8.19	8.33	140	60.9	over range use dilution
Endrin aldehyde	1	7.58	7.51	7.65	55		
	2	7.54	7.47	7.61	7.4	643.2	153 – NS
alpha-Chlordane	1	6.05	6.00	6.14	120		
	2	6.13	6.06	6.20	20	500.0	143 – NS

RPD

AECOM049 PE290

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-5 (16'-18')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-001BDL Date(s) Analyzed: 10/13/09 10/13/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Heptachlor epoxide	1	5.68	5.60	5.74	72		135 - Use undiluted
	2	5.62	5.52	5.66	14	414.3	
4,4'-DDE	1	6.20	6.12	6.26	83		38.9 - OK
	2	6.41	6.32	6.46	56	48.2	
Endosulfan II	1	7.12	7.07	7.21	180		69.7 - J
	2	7.18	7.12	7.26	87	106.9	
4,4'-DDD	1	6.94	6.89	7.03	110		16.7 - OK
	2	7.10	7.03	7.17	130	18.2	
Endosulfan sulfate	1	7.99	7.92	8.06	870		105 - NJ
	2	7.78	7.73	7.87	270	222.2	
4,4'-DDT	1	7.26	7.20	7.34	590		31.4 - OK SB 1/20/10
	2	7.40	7.35	7.49	~~590~~ 430	37.2	
Endrin ketone	1	8.25	8.17	8.31	130		63.1 - J
	2	8.24	8.19	8.33	250	92.3	
Endrin aldehyde	1	7.57	7.51	7.65	130		127 - Report from undiluted
	2	7.53	7.47	7.61	29	348.3	

AECOM049
PE291

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-002B Date(s) Analyzed: 10/10/09 10/10/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
gamma-BHC	1	3.80	3.73	3.83	1.6		
	2	3.73	3.70	3.80	2.2	37.5	31.6 -OK
Endosulfan I	1	6.26	6.21	6.35	2.5		
	2	6.18	6.14	6.28	2.4	4.2	4.08 -OK
4,4´-DDE	1	6.17	6.12	6.26	2.3		
	2	6.42	6.32	6.46	17	639.1	152- Use dilution better precision
Endrin	1	6.89	6.82	6.96	5.2		
	2	6.95	6.88	7.02	3.5	48.6	39 -OK
Endosulfan II	1	7.12	7.07	7.21	64		
	2	7.18	7.12	7.26	39	64.1	48.5 -J
4,4´-DDD	1	6.94	6.89	7.03	16		
	2	7.10	7.03	7.17	20	25.0	22.22 -OK
Endosulfan sulfate	1	7.99	7.92	8.06	180		
	2	7.78	7.73	7.87	140	28.6	25 } over range do not use
4,4´-DDT	1	7.26	7.20	7.34	200		
	2	7.40	7.35	7.49	150	33.3	28.57 } over range do not use
Methoxychlor	1	7.77	7.68	7.82	74		
	2	8.06	7.99	8.13	50	48.0	38.7 -OK

AECOM049 PE292

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-5 (28'-30')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-002B Date(s) Analyzed: 10/10/09 10/10/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

RPD

Endrin ketone	1	8.26	8.17	8.31	68		
	2	8.24	8.19	8.33	97	42.6	35.2 - overrange
Endrin aldehyde	1	7.57	7.51	7.65	43		
	2	7.52	7.47	7.61	2.5	999.9	178 - U@SQL
gamma-Chlordane	1	5.85	5.79	5.93	7.6		
	2	5.88	5.83	5.97	2.7	181.5	95.15 - NJ

AECOM049 PE293

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-5 (28'-30')DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-002BDL Date(s) Analyzed: 10/13/09 10/13/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
4,4'-DDE	1	6.20	6.12	6.26	14		
	2	6.41	6.32	6.46	22	57.1	44.44 - J
Endosulfan II	1	7.12	7.07	7.21	72		
	2	7.18	7.12	7.26	46	56.5	44.1 - Use undiluted
4,4'-DDD	1	6.94	6.89	7.03	21		
	2	7.10	7.03	7.17	25	19.0	17.4 - use undiluted
Endosulfan sulfate	1	7.99	7.92	8.06	190		
	2	7.77	7.73	7.87	160	18.8	17.1 - OK
4,4'-DDT	1	7.25	7.20	7.34	220		
	2	7.40	7.35	7.49	190	15.8	14.6 - OK
Methoxychlor	1	7.77	7.68	7.82	81		
	2	8.05	7.99	8.13	61	32.8	28.17 - Use undiluted
Endrin ketone	1	8.25	8.17	8.31	81		
	2	8.23	8.19	8.33	92	13.6	12.7 - OK

AECOM049 PE294

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-004B Date(s) Analyzed: 10/10/09 10/10/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.88	3.82	3.92	1.7		
	2	3.85	3.79	3.89	3.1	82.4	58.33 U@SQL
delta-BHC	1	4.10	4.05	4.15	4.9		
	2	4.21	4.15	4.25	1.9	157.9	88.24 - U@SQL
Heptachlor	1	4.35	4.31	4.41	3.8		
	2	4.33	4.25	4.35	1.9	100.0	67 - U@SQL
4,4'-DDE	1	6.19	6.12	6.26	75		
	2	6.39	6.32	6.46	7.3	927.4	164 - NJ
4,4'-DDD	1	6.96	6.89	7.03	19		
	2	7.10	7.03	7.17	14	35.7	30.3 - OK
4,4'-DDT	1	7.27	7.20	7.34	8.7		
	2	7.43	7.35	7.49	7.6	14.5	13.5 - OK
Endrin ketone	1	8.22	8.17	8.31	9.6		
	2	8.24	8.19	8.33	5.7	68.4	50.98 - J
alpha-Chlordane	1	6.07	6.00	6.14	3.8		
	2	6.13	6.06	6.20	6.6	73.7	53.85 - J
gamma-Chlordane	1	5.86	5.79	5.93	9.0		
	2	5.90	5.83	5.97	7.1	26.8	23.6 - OK

AECOM049 PE295

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910973-001B Date(s) Analyzed: 10/19/09 10/19/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Heptachlor epoxide	1	5.67	5.60	5.74	3.7		
	2	5.59	5.52	5.66	15	305.4	121 - NJ
Endosulfan I	1	6.28	6.21	6.35	1.9		
	2	6.22	6.14	6.28	1.8	5.6	5.4 - OK
Dieldrin	1	6.59	6.53	6.67	19		
	2	6.56	6.52	6.66	31	63.2	48 - ~~OK~~ J
4,4'-DDE	1	6.18	6.12	6.26	34		
	2	6.41	6.32	6.46	62	82.4	58.33 - J
Endosulfan II	1	7.13	7.07	7.21	7.2		
	2	7.20	7.12	7.26	22	205.6	101 - NJ
4,4'-DDD	1	6.94	6.89	7.03	110		
	2	7.10	7.03	7.17	24	358.3	128 - NJ
Endosulfan sulfate	1	8.01	7.92	8.06	52		
	2	7.80	7.73	7.87	16	225.0	106 - NJ
4,4'-DDT	1	7.24	7.20	7.34	59		
	2	7.43	7.35	7.49	80	35.6	30.2 - OK
Methoxychlor	1	7.75	7.68	7.82	120		
	2	8.04	7.99	8.13	310	158.3	88.37 - NJ

AECOM049 PE296

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910973-001B Date(s) Analyzed: 10/19/09 10/19/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

RPD

Endrin ketone	1	8.22	8.17	8.31	18	
	2	8.24	8.19	8.33	18	0.0
Endrin aldehyde	1	7.60	7.51	7.65	5.1	
	2	7.57	7.47	7.61	65	999.9

OK

171-NJ

AECOM049 PE297

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-32987	92	119	101	132			0
02	LFB2-32987	90	109	97	127			0
03	SS-3	95	114	109	383 *			1
04	SS-4	80	85	94	485 *			1
05	MB-33041	101	125	109	142			0
06	LFB2-33041	100	124	107	139			0
07	SS-5	86	91	112	319 *			1
08	DUP-1	97	95	108	239 *			1
09	SB-3 (4'-5')	78	96	109	158 *			1
10	SB-17 (1'-2')	118	140	117	191 *			1
11	SS-2	88	91	111	232 *			1
12	MB-33132	92	113	99	125			0
13	LFB2-33132	93	114	97	121			0
14	SB-5 (16'-18')	121	78	89	500 *			1
15	SB-5 (28'-30')	91	98	98	542 *			1
16	SB-5 (52'-54')	91	110	98	132			0
17	SB-8 (2'-3')	95	93	100	488 *			1
18	MB-33270	84	90	87	90			0
19	LFB2-33270	95	92	102	104			0
20	SB-7 (6'-8')	69	74	103	583 *			1
21	SB-7 (6'-8')DL	61	66	102	548 D			0
22	SB-17 (1'-2')DL	0 D	0 D	0 D	0 D			0

QC Limits

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

OD Surrogate diluted out
D Sample diluted MMR 10/22/09

AECOM049 P3

7

CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

GC Column: CLP ID: .32 (mm) Init. Calib. Dates 10/15/2009 10/15/2009

EPA Sample No.(PIBLK): piblk 05 Date Analyzed: 10/19/2009

Lab Sample ID(PIBLK): piblk 05 Time Analyzed: 14:36

EPA Sample No.(INDAM): ccv8151+09 Date Analyzed: 10/19/2009

Lab Sample ID(INDA): ccv8151+09 Time Analyzed: 14:51

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
2,4-D	4.75	4.72	4.78	0.084	0.10	-16.0
2,4,5-TP (Silvex)	5.13	5.11	5.17	0.043	0.050	-14.0
2,4,5-T	5.26	5.24	5.30	0.042	0.050	-16.0
2,4-DB	5.49	5.46	5.52	0.083	0.10	-17.0
DCAA	4.17	4.15	4.21	0.43	0.50	-14.0

AECOM049 H153

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910571-001B Date(s) Analyzed: 10/02/09 10/02/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
2,4,5-T	1	5.31	5.31	5.37	18		
	2	5.20	5.18	5.24	23	27.8	24.4 ✓
2,4-DB	1	5.58	5.53	5.59	24		
	2	5.43	5.40	5.46	56	133.3	80 JN

AECOM049 H165

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (1'-2')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910681-003B Date(s) Analyzed: 10/02/09 10/02/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
2,4,5-T	1	5.31	5.31	5.37	7.2		
	2	5.20	5.18	5.24	9.5	31.9	27.5 ✓
2,4-DB	1	5.59	5.53	5.59	7.5		
	2	5.43	5.40	5.46	12	60.0	46.2 J

AECOM049 H168

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-5 (52'-54')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-003B Date(s) Analyzed: 10/16/09 10/16/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
2,4-DB	1	5.52	5.46	5.52	23	
	2	5.36	5.34	5.40	7.8	194.9

RPD

98.7 R

AECOM049 H171

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-8 (2'-3')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910781-004B Date(s) Analyzed: 10/19/09 10/19/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	
2,4,5-T	1	5.25	5.24	5.30	6.8		RPD
	2	5.14	5.13	5.19	11	61.8	47.2 J
2,4-DB	1	5.50	5.46	5.52	22		
	2	5.38	5.34	5.40	42	90.9	62.5 JN

AECOM049 H172

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-7 (6'-8')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM049

Lab Sample ID: 0910973-001B Date(s) Analyzed: 10/19/09 10/19/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
2,4-D	1	4.76	4.72	4.78	40	
	2	4.64	4.59	4.65	8.0	400.0
2,4,5-T	1	5.26	5.24	5.30	87	
	2	5.15	5.13	5.19	120	37.9
2,4-DB	1	5.48	5.46	5.52	83	
	2	5.39	5.34	5.40	280	237.3

RPD

133 R

31.9 ✓

108 R

AECOM049 H173

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Antimony				120.0	113.37	94.5	115.86	96.6
Arsenic				20.0	19.30	96.5	21.94	109.7
Beryllium				10.0	9.81	98.1	10.01	100.1
Cadmium				10.0	9.61	96.1	9.79	97.9
Chromium				20.0	19.05	95.3	19.93	99.6
Cobalt				100.0	97.55	97.5	101.40	101.4
Copper				50.0	48.45	96.9	49.72	99.4
Lead				6.0	4.61	76.9	5.12	85.4
Manganese				30.0	28.85	96.2	30.09	100.3
Nickel				80.0	78.83	98.5	81.13	101.4
Selenium				10.0	8.81	88.1	8.55	85.5
Silver				20.0	18.98	94.9	19.48	97.4
Thallium				20.0	19.74	98.7	19.44	97.2
Vanadium				100.0	95.61	95.6	99.28	99.3
Zinc				40.0	42.65	106.6	44.90	112.3

AECOM049 M32

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Antimony				120.0	117.92	98.3	120.74	100.6
Arsenic				20.0	23.12	115.6	21.21	106.1
Beryllium				10.0	9.89	98.9	10.03	100.3
Cadmium				10.0	10.14	101.4	10.22	102.2
Chromium				20.0	19.44	97.2	19.58	97.9
Cobalt				100.0	98.94	98.9	101.51	101.5
Copper				50.0	49.30	98.6	49.33	98.7
Lead				6.0	4.57	76.1	4.13	68.8
Manganese				30.0	29.00	96.7	29.05	96.8
Nickel				80.0	79.49	99.4	80.17	100.2
Selenium				10.0	12.61	126.1	13.10	131.0
Silver				20.0	19.93	99.6	19.45	97.3
Thallium				20.0	22.98	114.9	21.47	107.3
Vanadium				100.0	97.34	97.3	100.11	100.1
Zinc				40.0	41.12	102.8	42.19	105.5

AECOM049 M33

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
SB-3 (4'-5')S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 90.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	51.8231		0.9854	B	55.48	91.6		P
Arsenic	75-125	8.0973		4.1564		4.44	88.8		P
Barium	75-125	298.1447		85.9254		221.93	95.6		P
Beryllium	75-125	5.6835		0.3695	B	5.55	95.8		P
Cadmium	75-125	5.2430		0.2818	B	5.55	89.4		P
Chromium	75-125	39.3653		15.3151		22.19	108.4		P
Cobalt	75-125	58.5331		5.9210		55.48	94.8		P
Copper	75-125	72.6387		52.9250		27.74	71.1	N	P
Iron		15891.4625		13957.0340		110.96	1743.3		P
Lead		145.1983		129.9924		2.22	685.2		P
Manganese		315.6591		275.1820		55.48	73.0		P
Mercury	75-125	0.5308		0.2423		0.18	156.0	N	CV
Nickel	75-125	65.5426		13.0360		55.48	94.6		P
Selenium	75-125	1.0542		0.2754	U	1.11	95.0		P
Silver	75-125	3.6717		0.1525	B	5.55	63.4	N	P
Thallium	75-125	6.1058		0.9048	B	5.55	93.7		P
Vanadium	75-125	78.5597		23.6673		55.48	98.9		P
Zinc		253.9470		227.1494		55.48	48.3		P

Comments:

AECOM049 M43

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
SB-3 (4'-5')A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper		556.07		476.96		50.0	158.2		P
Silver		21.31	B	1.37	B	20.0	99.7		P

Comments:

FORM V (Part 2) - IN ILM04.1

AECOM049 M44

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

SB-3 (4'-5')

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM049

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	55152.14		60746.65		10.1		P
Antimony	8.88	B	18.03	B	103.1		P
Arsenic	37.46		43.10	B	15.1		P
Barium	774.36		853.15	B	10.2		P
Beryllium	3.33	B	3.85	B	15.6		P
Cadmium	2.54	B	2.10	B	17.3		P
Calcium	147455.59		164038.65		11.2	E	P
Chromium	138.02		154.65		12.0	E	P
Cobalt	53.36		59.40	B	11.3		P
Copper	476.96		512.35		7.4		P
Iron	125780.79		136974.45		8.9		P
Lead	1171.49		1327.61		13.3	E	P
Magnesium	23125.99		26006.60		12.5	E	P
Manganese	2479.94		2774.40		11.9	E	P
Nickel	117.48		132.15	B	12.5	E	P
Potassium	8519.05		8990.65	B	5.5		P
Selenium	2.48	U	12.41	U			P
Silver	1.37	B	5.68	B	313.5		P
Sodium	1389.44	B	1475.25	B	6.2		P
Thallium	8.15	B	16.02	U	100.0		P
Vanadium	213.29		238.20	B	11.7	E	P
Zinc	2047.07		2335.25		14.1	E	P

AECOM049 M50

SS-2 and DUP-1

Analyte	CRDL (mg/Kg)	5xCRDL (mg/Kg)	Original Result (mg/Kg)	Duplicate Result (mg/Kg)	RPD	Actions
Aluminum	20	100	5070	5600	10	OK; <35
Antimony	6	30	1	2.2	75	OK; difference ± 2xCRDL
Arsenic	1	5	4.9	7.3	39	J both
Barium	20	100	93	137	38	J both
Beryllium	0.5	2.5	0.31	0.35	12	OK; <35
Cadmium	0.5	2.5	0.35	0.41	16	OK; <35
Calcium	500	2500	47700	28800	49	J both
Chromium	1	5	18.4	18.5	1	OK; <35
Cobalt	5	25	5.6	7.3	26	OK; <35
Copper	2.5	12.5	63.1	94.6	40	J both
Iron	10	50	13100	19400	39	J both
Lead	0.3	1.5	184	183	1	OK; <35
Magnesium	500	2500	6900	3990	53	J both
Manganese	1.5	7.5	235	237	1	OK; <35
Mercury	0.033	0.165	0.14	0.22	44	J both
Nickel	4	20	15.7	18.7	17	OK; <35
Potassium	500	2500	866	903	4	OK; <35
Selenium	0.5	2.5	0.27 U	0.28 U	Not calculable	OK; both ND
Silver	1	5	0.21	0.34	47	OK; difference ± 2xCRDL
Sodium	500	2500	428	343	22	OK; <35
Thallium	1	5	0.85	1.3	42	OK; difference ± 2xCRDL
Vanadium	5	25	20.8	24.6	17	OK; <35
Zinc	2	10	275	425	43	J both

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM050

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
SB-15 (3-4)	0910529-001	X	X	X	X	X
SB-16 (2-3)	0910572-001	X	X	X	X	X
SB-18 (4-5)	0910572-002	X	X	X	X	X
TB-092109	0910572-003				X	
SB-9 (4'-5')	0910682-001	X	X	X	X	X
SB-9 (20'-21.5')	0910682-002		X	X	X	X
SB-9 (36'-38')	0910682-003		X	X	X	X
SB-9 (40'-42')	0910682-004		X	X	X	X
SB-10 (3'-4')	0910682-005	X	X	X	X	X
SB-10 (48'-50')	0910682-006		X	X	X	X
SB-13 (18'-24')	0910682-007		X	X	X	X
SB-14 (1'-2')	0910682-008	X	X	X	X	X
SB-14B (11'-13')	0910682-009		X	X	X	X
SB-4 (1'-2')	0910782-001	X	X	X	X	X
SB-10 (16'-18')	0910782-002		X	X	X	X
SB-10 (40'-41.5')	0910782-003		X	X	X	X
SB-12 (4'-5')	0910782-004	X	X	X	X	X
DUP-2	0910974-001		X	X	X	X
TP-3 (7.0)	0910974-002		X	X	X	X
TP-3 (7.5)	0910974-003		X	X	X	X

CLP (Non-CLP) (Please indicate year of protocol) ASP B 2000 mrm 10/29/09

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

25750

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: AECOM 049/050

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: VIPUL MEHRA

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

Sample Container Description → 2 OZ GLASS, 8 OZ GLASS, 8 OZ GLASS, 4 OZ GLASS, 4 OZ GLASS

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: TCL VOA	ORGANIC: TCL BNA	ORGANIC: TCL PCB	ORGANIC: PCBS	ORGANIC:	INORG.: TAL Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
9/23/09	7:15	S	SS-3	3	X	X	X		9/23/09	X	X	0910491-002ABCD	TCL8
9/23/09	13:20	S	SB-15 (3'-4')	3	X	X	X	X		X	X	0910529-001 ABCD	
9/23/09	14:15	S	SS-4	3	X	X	X			X	X	0910491-003 ABCD	
9/24/09		W	TB	2	X							-004 A	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipul Mehra	9/23/09	15:46	S.W[illegible]	9-23-09	15.46
S.W[illegible]	9.23.09	17.34	Matt M[illegible]	9/23/09	17:34

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled, Temp 4.1°C ON ICE
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

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H2M LABS, INC.

Sample Receipt Checklist

AECOM 050

Client Name AECOM

Date and Time Received: 9/23/2009 5:34:00 PM

Work Order Number 0910529

Received by MJMa

Checklist completed by Matt M 9/23/09 (Signature / Date)

Reviewed by JSA 9/25/09 (Initials / Date)

Matrix:

Carrier name: Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

H2M LABS, INC.

23131

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM | **H2M SDG NO:** AECOM 049/050

PROJECT NAME/NUMBER: EQUITY SITE

SAMPLERS: (signature)/Client

DELIVERABLES: B0-70

TURNAROUND TIME: STD

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	TCL VOC	VOC	TCL SVOC/PCB/HERB/PEST	TAL Metals/Free CN	SVOC / PCB				LAB I.D. NO.	REMARKS:
						ANALYSIS REQUESTED									
						ORGANIC							INORG.		
						VOA	BNA	Pest/PCB					Metals CN		
9/24/09	14:15	S	SB-16 (2'-3')	3			X		X	X				0910572-001	AECOM050
9/25/09	8:30	S	SS-5	3		X		X	X					0910571-001	AECOM 049
9/25/09	11:01	S	SB-18 (4'-5')	3			X		X	X				0910572-002	AECOM050
9/24/09			TB	2			X							0910572-003	AECOM 050

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Virgil Mehn	9/25/09	15:55	S. Weed	9-25-09	15:55
S. Weed	9.25-09	17.58	Matt Li	9/25/09	17:58

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled, Temp 4.5°C on ICE
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

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H2M LABS, INC.

Sample Receipt Checklist

AECOM 050

Client Name AECOM

Date and Time Received: 9/25/2009 5:58:00 PM

Work Order Number 0910572

Received by MJMa

Checklist completed by Signature 9/25/09 Date

Reviewed by Initials 9/29/09 Date

Matrix:

Carrier name: Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

H2M LABS, INC.

23732

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: | **H2M SDG NO:** AECOM 050/051

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client
VIPUL MEHRA
JOSH MILLARD

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	ORGANIC TCL VOC	ORGANIC TCL SVOC	ORGANIC TCL Pest/Herb/PCB	ORGANIC TOTAL CN	INORG. TAL Metal	INORG. TOTAL CN	LAB I.D. NO.	REMARKS:
9/27/09	11:41	S	SB-9 (4'-5')	3		X	X	X					X	X	0910682-001	AECOM 050
9/28/09	13:25	S	SB-14 (1'-2')	3		X	X	X					X	X	-008	
9/28/09	13:48	S	SB-10 (3'-4')	3		X	X	X					X	X	-006	
9/28/09	15:30	S	SB-9 (40'-42')	3		X	X						X	X	-004	
9/27/09	16:50	W	GW-1	6		X	X					X	X		0910683-001	AECOM 051
9/28/09	14:00	S	SB-13 (18'-24')			X	X						X	X	0910682-007	AECOM 050
9/28/09	14:15	S	SB-10 (48'-50')			X	X						X	X	-006	
9/28/09	15:30	S	SB-9 (36'-38')			X	X						X	X	-003	
9/28/09	15:00	S	SB-9 (20'-21.5')			X	X						X	X	-002	
9/27/09	14:30	S	SB-14B (11'-13')			X	X						X	X	-009	

9/24/09

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/28/09	15:12		9/28	1512
	9/28	15:45		9/28/09	16:45
	Date	Time		Date	Time
	Date	Time		Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp 5.7°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM050

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 9/28/2009 4:45:00 PM

Work Order Number 0910682 | Received by dmc

Checklist completed by [signature] 9/29/09 (Signature / Date) | Reviewed by JSA 10/5/09 (Initials / Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 9/28/09 Person contacted VIPUL MEHRA

Contacted by: JON ARNDT Regarding _____

Comments: FOR THE FOLLOWING SAMPLES, COLLECTION DATE ON COC WAS 9/27/09, COLLECTION DATE ON BOTTLE LABELS WAS 9/26/09: SB-9 (45'), (36-38'), (40-42'), SB-10 (3'-4'), (48'-50'), SB-13 (18-24'), SB-14 (1'-2').

Corrective Action DATE IS 9/27/09 COC IS CORRECT

H2M LABS, INC.

23619

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: AECOM049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: ABCOM

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: PETE COX

Phone Number:

PIS/Quote #

Sample Container Description →

Total No. of Containers ↓

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	ORGANICS: VOA	BNA	Pest/PCB	TCL VOC	TCLP VOC	TCLP Pest/Herb	INORG.: TAL Metal	PCB/Pest	CN	LAB I.D. NO.	REMARKS:
9/25/09	16:25	S	SB-10 (16'-18')	X	X					X	X		0910782-002	AECOM050
9/28/09	16:00	S	SB-10 (40'-41.5')	X	X					X	X		↓ -003	↓
9/28/09	16:10	S	SB-13 (12'-14')	X	X					X	X		0910783-002	AECOM056
9/28/09	16:30	S	SB-5 (52'-54')			X	X	X	X	X	X		0910781-003	AECOM049
9/27/09	10:03	S	SB-13 (0'-1')	X	X	X				X	X		0910783-001	AECOM056
9/27/09	15:46	S	SB-8 (2'-3')			X	X	X	X	X	X		0910781-004	AECOM049
9/28/09	16:20	S	SB-5 (16'-18')			X	X	X	X	X	X		-001	↓
9/28/09	16:40	S	SB-5 (28'-30')			X	X	X	X	X	X		↓ -002	↓
9/25/09	14:30	S	SB-12 (4'-5')	X	X	X				X	X		0910782-004	AECOM050
9/24/09	09:45	S	SB-4 (1'-2')	X	X	X				X	X		↓ -001	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/30/09	1508	S. Wood	9-30-09	15.12
S. Wood	9-30-09	16.53		9/30/09	16:53

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp ___
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM050

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 9/30/2009 4:53:00 PM

Work Order Number 0910782

Received by dmc

Checklist completed by [signature] 10/1/09 (Signature / Date)

Reviewed by JA 10/8/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23140

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: AECom049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN

Phone Number: 914-227-3779

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	TCL VOC	TCL SVOC	PCB	TCL Pest & Metals	INORG. TAL Metal	INORG. CN/F/E	LAB I.D. NO.	REMARKS:
10/6/09	16:40	S	SB-11 (54'-56')	3	X	X						X	X	0910975-003	AECom 056
10/6/09	16:45	S	SB-11 (32'-32.5')	2	X	X						X	X	-002	
10/6/09	17:00	S	SB-11 (16'-18')	3	X	X						X	X	-001	
10/5/09	16:05	S	SB-7 (6'-8')	2			X	X	X	X		X	X	0910973-001	AECom 049
10/6/09	13:45	S	TP-2 (8.5')	3	X	X						X	X	0910975-004	AECOM056
10/7/09	12:50	S	TP-3 (7.5) MS/MSD 2	3	X	X						X	X	0910974-003	AECOM 050
10/7/09	12:45	S	TP-3 (7.0)	3	X	X						X	X	-002	
10/7/09	12:50	S	TP-3 (7.5)	3	X	X						X	X	-003	
10/7/09		S	DUP-2	3	X	X						X	X	-001	
10/2/09			TB	2	X									0910975-005	AECOM056

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/7/09	15:55	S. Wall	10-7-09	15.53
S. Wall	10-7-09	17.38	M. Wall	10.7.09	17:38

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or Chilled, Temp 4.3°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM 050

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/7/2009 5:38:00 PM

Work Order Number 0910974 | Received by MCW

Checklist completed by M. Watt (Signature) 10.8.09 (Date) | Reviewed by BA (Initials) 10/9/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 10/8/09 Person contacted VIPUL MEHRA

Contacted by: JENARAEURI Regarding _____

Comments: For the MS/MSD, the time of collection on the chain of custody said 12:50, and on the bottle it said 12:00.

Corrective Action AS PER VIPUL TIME IS 12:50.

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100209	102	99	101		0
02	SB-15(3-4)	102	99	103		0
03	SB-16(2-3)	102	99	103		0
04	SB-18(4-5)	101	102	99		0
05	VBLK100609	100	100	99		0
06	SB-9(4'-5')	104	102	144 *		1
07	SB-9(20'-21.5')	85	102	96		0
08	SB-9(40'-42')	103	100	100		0
09	SB-10(3'-4')	100	101	101		0
10	SB-10(48'-50')	101	96	101		0
11	SB-14(1'-2')	101	93	123 *		1
12	SB-12(4'-5')	101	99	99		0
13	SB-4(1'-2')	47 *	100	97		1
14	SB-9(36'-38')	91	96	94		0
15	SB-13(18'-24')	31 *	80 *	116 *		3
16	SB-14B(11-13)	94	91	97		0
17	SB-10(16'-18')	68 *	96	104		1
18	SB-10(40'-41.5')	65 *	101	102		1
19	VBLK100809	99	100	102		0
20	SB-9(4'-5')RE	100	103	148 *		1
21	SB-9(40'-42')RE	105	100	101		0
22	SB-10(3'-4')DL	102	99	103		0
23	SB-14(1'-2')DL	101	97	111		0
24	VBLK101209	113	94	99		0
25	DUP-2	109	98	98		0
26	TP-3(7.0)	112	95	100		0
27	VBLK101309	107	96	105		0
28	LFB101309	105	98	101		0
29	MSB101309	100	100	99		0

→ Not reported

			QC Limit
SMC 1	DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC 2	TOL	= Toluene-d8	(84-138)
SMC 3	BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
31	TP-3(7.5)	102	102	97		0
32	TP-3(7.5)MS	103	99	99		0
33	TP-3(7.5)MSD	104	102	99		0

			QC Limit
SMC 1	DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC 2	TOL	= Toluene-d8	(84-138)
SMC 3	BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100809	99	100	99		0
02	LFB100809	97	100	100		0
03	SB-9(20'-21.5')DL	98	100	100		0
04	SB-13(18'-24')DL	128 *	133	137 *		2
05	SB-14B(11-13)DL	100	101	101		0
06	SB-4(1'-2')DL	98	101	102		0
07	SB-10(16'-18')DL	95	102	102		0
08	SB-10(40'-41.5')DL	100	101	103		0

tmo
10-18-09

	QC Limit
SMC1 DCA = 1,2-Dichloroethane-d4	(70-121)
SMC2 TOL = Toluene-d8	(84-138)
SMC3 BFB = 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

AECOM050 V5

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100209	107	103	90		0
02	TB-092109	107	103	89		0

			QC Limit
SMC1	DCA	= 1,2-Dichloroethane-d4	(76-114)
SMC2	TOL	= Toluene-d8	(88-110)
SMC3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

AECOM050 V6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3467.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM050 V493

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100609

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3491.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/06/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	15	
67-64-1	Acetone	5	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM050 V499

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100809

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3516.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM050 V505

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3558.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM050 V516

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101309

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3581.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/13/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	11	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM050 V522

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D
VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	R ²
Chloromethane	3.9530302	3.9524610	4.6319223	4.5359106	3.9705922	3.7443876	4.131	8.8	
Dichlorodifluoromethane	2.5265557	2.7299738	1.9783901	2.1865041	2.6096983	2.4376444	2.411	11.6	
Bromomethane *	0.8880219	0.8976113	1.1740105	1.2996166	1.2489609	1.3522305	1.143	17.7	*
Vinyl chloride *	3.3203291	3.4778529	4.0292199	4.0115006	3.4855196	3.2681062	3.599	9.4	*
Chloroethane	1.8818803	2.156261	2.4674965	2.4918941	2.0931397	1.9769313	2.178	11.6	
Methylene chloride	5.3571015	3.9804136	3.6467208	3.3675581	2.8007598	2.6293847	3.630	27.2	
Acetone	1.551238	0.9931975	0.8966764	0.7762228	0.7105922	0.6987351	0.938	34.3	
Trichlorofluoromethane	3.3925605	3.5273076	4.2479810	4.2795714	3.7478436	3.5347371	3.788	10.2	
1,1-Dichloroethene *	2.3183591	2.3446968	2.7471601	2.7629209	2.3856536	2.2609153	2.470	9.1	*
Carbon disulfide	8.6735679	9.2665859	10.960352	10.908780	9.4190391	8.8316586	9.677	10.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378	2.650	11.7	
1,1-Dichloroethane *	5.1508363	5.2998554	6.2041844	6.3247887	5.5281564	5.2294899	5.623	9.1	*
1,2-Dichloroethene (total)	2.7975202	2.8322061	3.4375555	3.4130525	2.9474413	2.8066864	3.039	10.0	
Chloroform *	4.7927691	4.8256382	5.6070288	5.7064801	5.0334525	4.7711600	5.123	8.3	*
Freon-113	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378	2.650	11.7	
1,2-Dichloroethane *	3.1295145	3.0910122	3.6247559	3.790818	3.316514	3.2260957	3.363	8.4	*
Methyl Acetate	1.9135540	1.6699245	1.9758387	2.0329315	1.7825251	1.8158427	1.865	7.2	
2-Butanone	1.5245857	1.1790922	1.3325346	1.3240959	1.2522235	1.293651	1.318	8.8	
1,1,1-Trichloroethane *	0.5947949	0.5556078	0.7081902	0.7311147	0.6453866	0.6382190	0.646	10.3	*
trans-1,2-Dichloroethene	2.6594306	2.6940068	3.2357118	3.2617893	2.8203352	2.6814749	2.892	9.8	
Carbon tetrachloride *	0.4909602	0.4542288	0.5913246	0.6013965	0.5338987	0.5258556	0.533	10.6	*
Methyl tert-butyl ether	7.1126733	6.4707377	7.7352902	8.2204517	7.1659665	7.1360082	7.307	8.2	
Bromodichloromethane *	0.5844967	0.5157695	0.6632225	0.7008252	0.6161716	0.6125207	0.616	10.4	*

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D

VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R [1]
1,2-Dichloropropane	0.4614063	0.4137269	0.5306183	0.5566970	0.4860794	0.4798372					0.488	10.4	
cis-1,2-Dichloroethene	2.9209317	2.9623910	3.5888135	3.5338322	3.0664581	2.9346319					3.168	9.8	
cis-1,3-Dichloropropene *	0.7205665	0.6376344	0.8196529	0.8671991	0.7463528	0.7530152					0.757	10.5	*
Trichloroethene *	0.3793257	0.3593743	0.473251	0.4959530	0.4242505	0.4288393					0.427	12.3	*
Dibromochloromethane *	0.3773757	0.3239870	0.4257832	0.4444213	0.3976976	0.4034818					0.395	10.6	*
1,1,2-Trichloroethane *	0.3225335	0.2715420	0.3578452	0.3730312	0.3272656	0.3342970					0.331	10.6	*
Benzene *	1.679514	1.5450690	1.9409917	2.0289776	1.744119	1.7252218					1.777	10.0	*
Cyclohexane	0.7466470	0.7071095	1.1209529	0.8983274	0.7940967	0.7997716					0.844	17.7	
trans-1,3-Dichloropropene *	0.6477481	0.5515991	0.7145662	0.7628596	0.6578134	0.6639687					0.666	10.7	*
Bromoform *	0.2280829	0.1813598	0.2370030	0.2588915	0.2347312	0.2423545					0.230	11.4	*
4-Methyl-2-pentanone	0.466452	0.3718865	0.4819145	0.523166	0.4420776	0.4776439					0.461	11.0	
2-Hexanone	0.3426181	0.2627634	0.3444027	0.3808426	0.3267687	0.3518264					0.335	11.8	
Tetrachloroethene *	0.2747585	0.2600019	0.378854	0.3551123	0.3049207	0.3075137					0.314	14.6	*
1,1,2,2-Tetrachloroethane *	0.4682447	0.3762563	0.4836746	0.5137895	0.4559886	0.4636831					0.460	10.0	*
Methylcyclohexane	0.4873040	0.4932930	1.0621426	0.6712095	0.5952410	0.6228470					0.655	32.4	
Toluene *	1.7209256	1.5685084	1.9960653	2.0729512	1.7600727	1.7349439					1.809	10.4	*
Chlorobenzene *	1.0554762	1.0078717	1.2751188	1.3267703	1.1286878	1.1361798					1.155	10.7	*
Ethylbenzene *	0.5415491	0.5166052	0.7495306	0.6923446	0.5933363	0.5976279					0.615	14.5	*
Styrene *	1.1883404	1.0999102	1.4854201	1.5033195	1.3027191	1.3121081					1.315	12.1	*
Xylene (total) *	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	*
m,p-Xylene *	0.6659473	0.6354541	0.9189634	0.8548094	0.7420208	0.7434688					0.760	14.3	*
o-Xylene	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
1,2-Dibromoethane	0.3790047	0.3031535	0.3967855	0.4257351	0.3646191	0.3722741					0.374	10.9	
Isopropylbenzene	1.6323495	1.5799488	2.8354186	2.1180168	1.8644723	1.9154044					1.991	23.0	
1,3-Dichlorobenzene	0.674546	0.6515828	1.0489762	0.8719695	0.7704939	0.7899846					0.801	18.2	
1,4-Dichlorobenzene	0.7299226	0.6655419	1.0310446	0.8939871	0.7904521	0.8091043					0.820	15.7	
1,2-Dichlorobenzene	0.6228877	0.5875534	0.8996201	0.8060822	0.7073352	0.7257586					0.725	15.9	
1,2-Dibromo-3-chloropropane	0.0804754	0.0605700	0.0791701	0.0851439	0.0757192	0.0806988					0.077	11.2	
1,2,4-Trichlorobenzene	0.3999203	0.3738590	0.7226333	0.5110835	0.4504	0.4769516					0.489	25.5	
1,2-Dichloroethane-d4	3.9209703	3.2321436	3.33056	3.3021569	2.8383240	2.7234855					3.225	13.2	
Toluene-d8	1.6353375	1.3970553	1.7034587	1.753528	1.4748422	1.4843545					1.575	9.1	
4-Bromofluorobenzene *	0.7542910	0.5763558	0.6957910	0.6862955	0.5924373	0.5837967					0.648	11.4	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	R ²
Chloromethane	2.9866490	2.8574809	2.8758224	2.6556806	2.7426660	2.3733170	2.749	7.9	
Dichlorodifluoromethane	1.8671908	1.8342235	1.8225512	1.6733094	1.7407128	1.5781005	1.753	6.3	
Bromomethane *	1.196528	1.2928470	1.2563962	1.2915723	1.4240252	1.2917412	1.292	5.8	*
Vinyl chloride *	2.2245144	2.3668109	2.1874086	2.1138209	2.2399388	1.9137812	2.174	7.0	*
Chloroethane	1.4051613	1.5955649	1.4784357	1.4654914	1.5158104	1.3046849	1.461	6.8	
Methylene chloride	9.3231093	6.1958285	4.0524488	2.8797338	2.6439891	2.2020925	4.550	60.3	
Acetone	1.3308162	0.8914205	0.7254203	0.6568651	0.6876612	0.6374649	0.822	32.3	
Trichlorofluoromethane	1.8909346	2.3669799	2.2991594	2.2628297	2.3767045	2.0646915	2.210	8.7	
1,1-Dichloroethene *	1.9345296	2.0443175	1.8991228	1.8849598	1.9759343	1.7187033	1.910	5.8	*
Carbon disulfide	6.9366704	7.4068690	7.0022844	6.8984775	7.2073782	6.2595778	6.952	5.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,1-Dichloroethane *	4.4054338	4.6665202	4.3943713	4.3201059	4.5457913	4.0543474	4.398	4.8	*
1,2-Dichloroethene (total)	2.3669768	2.5645663	2.3941886	2.383392	2.4954117	2.2345705	2.407	4.7	
Chloroform *	3.8729516	4.0908323	3.9502924	3.8599101	4.0162158	3.6371456	3.905	4.0	*
Freon-113	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,2-Dichloroethane *	2.5257872	2.8694814	2.7324561	2.6977668	2.8222525	2.631627	2.713	4.6	*
Methyl Acetate	1.8126971	1.9488202	1.8125	1.7032714	1.8156372	1.6971941	1.798	5.1	
2-Butanone	1.5277724	1.3739774	1.2682749	1.1467791	1.2589187	1.1650126	1.290	11.0	
1,1,1-Trichloroethane *	0.550347	0.6198278	0.5877442	0.580825	0.6120924	0.5503538	0.584	5.1	*
trans-1,2-Dichloroethene	2.1665175	2.4420256	2.2755848	2.2518900	2.3721162	2.1147426	2.270	5.4	
Carbon tetrachloride *	0.4062679	0.4541976	0.4444585	0.4441292	0.4773440	0.4336803	0.443	5.3	*
Methyl tert-butyl ether	5.1204702	6.1819688	5.5594846	5.6635543	6.0415715	5.5813843	5.691	6.7	
Bromodichloromethane *	0.4835894	0.5289404	0.5084348	0.5089978	0.5417726	0.505834	0.513	3.9	*

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
1,2-Dichloropropane	0.4151444	0.4402655	0.4303561	0.4214283	0.4444649	0.4147279					0.428	3.0	
cis-1,2-Dichloroethene	2.5678253	2.686769	2.5129751	2.5103648	2.6136581	2.3427865					2.539	4.6	
cis-1,3-Dichloropropene *	0.6530510	0.7145121	0.6793932	0.6800273	0.7096687	0.6745413					0.685	3.4	*
Trichloroethene *	0.3890283	0.4077673	0.4027666	0.3969397	0.4097774	0.3837453					0.398	2.6	*
Dibromochloromethane *	0.3772907	0.3995755	0.4013198	0.4012974	0.4322845	0.4127649					0.404	4.5	*
1,1,2-Trichloroethane *	0.3593175	0.3585267	0.3517951	0.3440579	0.3629611	0.339439					0.353	2.6	*
Benzene *	1.3683848	1.4656482	1.3994638	1.3747540	1.4173315	1.304794					1.388	3.9	*
Cyclohexane	0.5376557	0.5989297	0.6134046	0.5807567	0.6207077	0.5656308					0.586	5.3	
trans-1,3-Dichloropropene *	0.6223865	0.6473631	0.6456339	0.6276793	0.6582099	0.6248359					0.638	2.3	*
Bromoform *	0.2589609	0.2530495	0.2558555	0.2541730	0.2825475	0.2763306					0.263	4.8	*
4-Methyl-2-pentanone	0.4712582	0.5166171	0.464067	0.4437591	0.4705707	0.4478431					0.469	5.5	
2-Hexanone	0.3885886	0.4011205	0.3717278	0.3521645	0.3747639	0.3512189					0.373	5.3	
Tetrachloroethene *	0.2422317	0.2949927	0.2785926	0.2773405	0.2869985	0.2637909					0.274	6.8	*
1,1,2,2-Tetrachloroethane *	0.5180264	0.53852	0.5215673	0.4997023	0.5278686	0.4961028					0.517	3.2	*
Methylcyclohexane	0.3723755	0.4142849	0.4131106	0.399311	0.4114661	0.394102					0.401	4.0	
Toluene *	1.4238848	1.5943850	1.4715158	1.4784978	1.5123719	1.3737697					1.476	5.1	*
Chlorobenzene *	1.0512524	1.1330632	1.076212	1.0614061	1.0918782	1.0059365					1.070	4.0	*
Ethylbenzene *	0.4842570	0.5159207	0.4965178	0.4916632	0.5016645	0.4565964					0.491	4.1	*
Styrene *	1.1498095	1.1594607	1.1241091	1.1137052	1.1397146	1.0533605					1.123	3.4	*
Xylene (total) *	0.6086053	0.6312591	0.6088085	0.5987598	0.6177038	0.5634955					0.605	3.8	*
m,p-Xylene *	0.6066108	0.6443312	0.6231624	0.6077439	0.6193416	0.5679363					0.612	4.1	*
o-Xylene	0.6086053	0.6312591	0.6088085	0.5987598	0.6177038	0.5634955					0.605	3.8	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
1,2-Dibromoethane	0.3791662	0.4336899	0.4033657	0.3934018	0.4123652	0.3898946					0.402	4.8	
Isopropylbenzene	1.4707905	1.5484586	1.5146537	1.4719928	1.5148670	1.3957745					1.486	3.6	
1,3-Dichlorobenzene	0.7606707	0.7309616	0.7259092	0.7104844	0.7291882	0.6828254					0.723	3.6	
1,4-Dichlorobenzene	0.7647285	0.7706527	0.7495698	0.7250803	0.7506531	0.7022498					0.744	3.5	
1,2-Dichlorobenzene	0.7038611	0.7022536	0.6853965	0.6758104	0.6928193	0.6497866					0.685	2.9	
1,2-Dibromo-3-chloropropane	0.0901663	0.0883712	0.0889010	0.0849795	0.0913892	0.0864958					0.088	2.7	
1,2,4-Trichlorobenzene	0.3886573	0.3883649	0.3888678	0.378793	0.3853239	0.3617369					0.382	2.8	
1,2-Dichloroethane-d4	2.549531	2.5934690	2.3639437	2.3334146	2.4386379	2.2777758					2.426	5.1	
Toluene-d8	1.3473363	1.4851554	1.3626125	1.3491547	1.3869482	1.2790534					1.368	4.9	
4-Bromofluorobenzene *	0.670642	0.6121415	0.5802023	0.5560014	0.5661330	0.5272937					0.585	8.6	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/02/09 Time: 12:34

Lab File ID: 09\G3466.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	4.131	3.228		-21.9	
Dichlorodifluoromethane	2.411	1.887		-21.7	
Bromomethane	1.143	1.120	0.100	-2.0	25.0
Vinyl chloride	3.599	2.315	0.100	-35.7	25.0
Chloroethane	2.178	1.691		-22.4	
Methylene chloride	3.630	4.090		12.7	
Acetone	0.938	1.042		11.1	
Trichlorofluoromethane	3.788	2.497		-34.1	
1,1-Dichloroethene	2.470	2.681	0.100	8.5	25.0
Carbon disulfide	9.677	10.018		3.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.650	2.889		9.0	
1,1-Dichloroethane	5.623	6.131	0.200	9.0	25.0
Chloroform	5.123	5.291	0.200	3.3	25.0
1,2-Dichloroethane	3.363	3.765	0.100	11.9	25.0
Methyl Acetate	1.865	2.220		19.0	
2-Butanone	1.318	1.660		26.0	
1,1,1-Trichloroethane	0.646	0.752	0.100	16.5	25.0
trans-1,2-Dichloroethene	2.892	3.195		10.5	
Carbon tetrachloride	0.533	0.564	0.100	5.8	25.0
Methyl tert-butyl ether	7.307	8.169		11.8	
Bromodichloromethane	0.616	0.656	0.200	6.6	25.0
1,2-Dichloropropane	0.488	0.550		12.7	
cis-1,2-Dichloroethene	3.168	3.397		7.2	
cis-1,3-Dichloropropene	0.757	0.873	0.200	15.3	25.0
Trichloroethene	0.427	0.554	0.300	29.8	25.0
Dibromochloromethane	0.395	0.463	0.100	17.1	25.0
1,1,2-Trichloroethane	0.331	0.409	0.100	23.5	25.0
Benzene	1.777	1.776	0.500	-0.1	25.0
Cyclohexane	0.844	0.890		5.4	
trans-1,3-Dichloropropene	0.666	0.788	0.100	18.2	25.0
Bromoform	0.230	0.287	0.100	24.6	25.0
4-Methyl-2-pentanone	0.461	0.586		27.2	
2-Hexanone	0.335	0.462		38.0	
Tetrachloroethene	0.314	0.359	0.200	14.5	25.0
1,1,2,2-Tetrachloroethane	0.460	0.378	0.300	-17.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V433

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/02/09 Time: 12:34

Lab File ID: 09\G3466.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.655	0.730		11.4	
Toluene	1.809	1.861	0.400	2.9	25.0
Chlorobenzene	1.155	1.267	0.500	9.7	25.0
Ethylbenzene	0.615	0.609	0.100	-1.0	25.0
Styrene	1.315	1.331	0.300	1.2	25.0
m,p-Xylene	0.760	0.757	0.300	-0.4	25.0
o-Xylene	0.738	0.728		-1.4	
1,2-Dibromoethane	0.374	0.463		23.9	
Isopropylbenzene	1.991	2.026		1.8	
1,3-Dichlorobenzene	0.801	0.889		11.0	
1,4-Dichlorobenzene	0.820	0.907		10.6	
1,2-Dichlorobenzene	0.725	0.809		11.6	
1,2-Dibromo-3-chloropropane	0.077	0.094		22.1	
1,2,4-Trichlorobenzene	0.489	0.550		12.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V434

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/02/09 Time: 12:34

Lab File ID: 09\G3466.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	3.225	2.232		-30.8	
Toluene-d8	1.575	1.262		-19.9	
4-Bromofluorobenzene	0.648	0.503	0.200	-22.4	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V435

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5973I Calibration Date: 10/02/09 Time: 14:17

Lab File ID: 09\E7623.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	3.305	3.005		-9.1	
Dichlorodifluoromethane	4.588	3.777		-17.7	
Bromomethane	2.413	1.951	0.100	-19.2	25.0
Vinyl chloride	3.677	3.174	0.100	-13.7	25.0
Chloroethane	1.931	1.849		-4.2	
Methylene chloride	2.203	2.114		-4.0	
Acetone	1.044	1.157		10.8	
Trichlorofluoromethane	5.206	4.562		-12.4	
1,1-Dichloroethene	1.560	1.391	0.100	-10.8	25.0
Carbon disulfide	4.953	4.089		-17.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.646	1.718		4.4	
1,1-Dichloroethane	4.191	4.139	0.200	-1.2	25.0
Chloroform	4.738	4.734	0.200	-0.1	25.0
1,2-Dichloroethane	4.759	4.974	0.100	4.5	25.0
Methyl Acetate	2.059	2.382		15.7	
2-Butanone	1.264	1.464		15.9	
1,1,1-Trichloroethane	0.654	0.623	0.100	-4.8	25.0
trans-1,2-Dichloroethene	1.846	1.602		-13.2	
Carbon tetrachloride	0.537	0.546	0.100	1.7	25.0
Methyl tert-butyl ether	7.737	8.460		9.3	
Bromodichloromethane	0.557	0.597	0.200	7.2	25.0
1,2-Dichloropropane	0.314	0.337		7.2	
cis-1,2-Dichloroethene	2.161	2.074		-4.0	
cis-1,3-Dichloropropene	0.544	0.588	0.200	8.1	25.0
Trichloroethene	0.413	0.396	0.300	-4.1	25.0
Dibromochloromethane	0.422	0.475	0.100	12.6	25.0
1,1,2-Trichloroethane	0.299	0.336	0.100	12.4	25.0
Benzene	1.243	1.252	0.500	0.7	25.0
Cyclohexane	0.400	0.445		11.1	
trans-1,3-Dichloropropene	0.579	0.645	0.100	11.5	25.0
Bromoform	0.311	0.359	0.100	15.6	25.0
4-Methyl-2-pentanone	0.479	0.611		27.6	
2-Hexanone	0.312	0.399		27.8	
Tetrachloroethene	0.319	0.312	0.200	-2.1	25.0
1,1,2,2-Tetrachloroethane	0.323	0.419	0.300	29.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V439

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5973I Calibration Date: 10/02/09 Time: 14:17

Lab File ID: 09\E7623.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.325	0.436		34.3	
Toluene	0.886	0.958	0.400	8.2	25.0
Chlorobenzene	1.052	1.127	0.500	7.1	25.0
Ethylbenzene	0.547	0.602	0.100	10.0	25.0
Styrene	1.061	1.214	0.300	14.4	25.0
m,p-Xylene	0.710	0.775	0.300	9.1	25.0
o-Xylene	0.713	0.793		11.2	
1,2-Dibromoethane	0.378	0.426		12.8	
Isopropylbenzene	1.821	2.097		15.2	
1,3-Dichlorobenzene	0.812	0.864		6.4	
1,4-Dichlorobenzene	0.835	0.918		10.0	
1,2-Dichlorobenzene	0.794	0.884		11.3	
1,2-Dibromo-3-chloropropane	0.112	0.141		25.8	
1,2,4-Trichlorobenzene	0.408	0.486		19.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V440

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5973I Calibration Date: 10/02/09 Time: 14:17

Lab File ID: 09\E7623.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	4.056	3.533		-12.9	
Toluene-d8	1.464	1.501		2.5	
4-Bromofluorobenzene	0.558	0.600	0.200	7.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V441

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/06/09 Time: 22:18

Lab File ID: 09\G3490.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	4.131	2.491		-39.7	
Dichlorodifluoromethane	2.411	1.610		-33.2	
Bromomethane	1.143	1.365	0.100	19.4	25.0
Vinyl chloride	3.599	2.308	0.100	-35.9	25.0
Chloroethane	2.178	1.502		-31.0	
Methylene chloride	3.630	3.839		5.7	
Acetone	0.938	0.761		-18.9	
Trichlorofluoromethane	3.788	2.665		-29.7	
1,1-Dichloroethene	2.470	2.186	0.100	-11.5	25.0
Carbon disulfide	9.677	8.786		-9.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.650	2.212		-16.5	
1,1-Dichloroethane	5.623	5.261	0.200	-6.4	25.0
Chloroform	5.123	4.911	0.200	-4.1	25.0
1,2-Dichloroethane	3.363	3.551	0.100	5.6	25.0
Methyl Acetate	1.865	2.210		18.5	
2-Butanone	1.318	1.446		9.7	
1,1,1-Trichloroethane	0.646	0.556	0.100	-13.9	25.0
trans-1,2-Dichloroethene	2.892	2.674		-7.5	
Carbon tetrachloride	0.533	0.446	0.100	-16.3	25.0
Methyl tert-butyl ether	7.307	7.614		4.2	
Bromodichloromethane	0.616	0.585	0.200	-5.0	25.0
1,2-Dichloropropane	0.488	0.448		-8.2	
cis-1,2-Dichloroethene	3.168	3.004		-5.2	
cis-1,3-Dichloropropene	0.757	0.731	0.200	-3.5	25.0
Trichloroethene	0.427	0.386	0.300	-9.6	25.0
Dibromochloromethane	0.395	0.403	0.100	1.9	25.0
1,1,2-Trichloroethane	0.331	0.351	0.100	6.0	25.0
Benzene	1.777	1.555	0.500	-12.5	25.0
Cyclohexane	0.844	0.608		-28.0	
trans-1,3-Dichloropropene	0.666	0.687	0.100	3.1	25.0
Bromoform	0.230	0.255	0.100	10.7	25.0
4-Methyl-2-pentanone	0.461	0.458		-0.5	
2-Hexanone	0.335	0.343		2.4	
Tetrachloroethene	0.314	0.255	0.200	-18.7	25.0
1,1,2,2-Tetrachloroethane	0.460	0.462	0.300	0.4	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V445

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/06/09 Time: 22:18

Lab File ID: 09\G3490.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.655	0.362		-44.8	
Toluene	1.809	1.491	0.400	-17.6	25.0
Chlorobenzene	1.155	0.995	0.500	-13.9	25.0
Ethylbenzene	0.615	0.497	0.100	-19.2	25.0
Styrene	1.315	1.152	0.300	-12.4	25.0
m,p-Xylene	0.760	0.618	0.300	-18.7	25.0
o-Xylene	0.738	0.612		-17.1	
1,2-Dibromoethane	0.374	0.361		-3.4	
Isopropylbenzene	1.991	1.437		-27.8	
1,3-Dichlorobenzene	0.801	0.669		-16.5	
1,4-Dichlorobenzene	0.820	0.698		-14.9	
1,2-Dichlorobenzene	0.725	0.632		-12.8	
1,2-Dibromo-3-chloropropane	0.077	0.083		7.8	
1,2,4-Trichlorobenzene	0.489	0.363		-25.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V446

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/06/09 Time: 22:18

Lab File ID: 09\G3490.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	3.225	2.400		-25.6	
Toluene-d8	1.575	1.156		-26.6	
4-Bromofluorobenzene	0.648	0.521	0.200	-19.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V447

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/12/09 Time: 10:38

Lab File ID: 09\G3557.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.369		22.6	
Dichlorodifluoromethane	1.753	2.158		23.1	
Bromomethane	1.292	1.751	0.100	35.5	25.0
Vinyl chloride	2.174	2.575	0.100	18.4	25.0
Chloroethane	1.461	1.732		18.6	
Methylene chloride	4.550	3.631		-20.2	
Acetone	0.822	0.784		-4.6	
Trichlorofluoromethane	2.210	2.751		24.5	
1,1-Dichloroethene	1.910	1.982	0.100	3.8	25.0
Carbon disulfide	6.952	7.078		1.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	2.184		24.4	
1,1-Dichloroethane	4.398	4.755	0.200	8.1	25.0
Chloroform	3.905	4.327	0.200	10.8	25.0
1,2-Dichloroethane	2.713	3.118	0.100	14.9	25.0
Methyl Acetate	1.798	2.032		13.0	
2-Butanone	1.290	1.406		9.0	
1,1,1-Trichloroethane	0.584	0.609	0.100	4.4	25.0
trans-1,2-Dichloroethene	2.270	2.426		6.8	
Carbon tetrachloride	0.443	0.455	0.100	2.6	25.0
Methyl tert-butyl ether	5.691	6.578		15.6	
Bromodichloromethane	0.513	0.545	0.200	6.3	25.0
1,2-Dichloropropane	0.428	0.468		9.4	
cis-1,2-Dichloroethene	2.539	2.782		9.6	
cis-1,3-Dichloropropene	0.685	0.750	0.200	9.5	25.0
Trichloroethene	0.398	0.419	0.300	5.2	25.0
Dibromochloromethane	0.404	0.431	0.100	6.7	25.0
1,1,2-Trichloroethane	0.353	0.372	0.100	5.5	25.0
Benzene	1.388	1.476	0.500	6.3	25.0
Cyclohexane	0.586	0.723		23.3	
trans-1,3-Dichloropropene	0.638	0.682	0.100	6.9	25.0
Bromoform	0.263	0.278	0.100	5.5	25.0
4-Methyl-2-pentanone	0.469	0.485		3.4	
2-Hexanone	0.373	0.386		3.4	
Tetrachloroethene	0.274	0.286	0.200	4.4	25.0
1,1,2,2-Tetrachloroethane	0.517	0.540	0.300	4.5	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V463

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/12/09 Time: 10:38

Lab File ID: 09\G3557.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.575		43.5	
Toluene	1.476	1.454	0.400	-1.5	25.0
Chlorobenzene	1.070	1.074	0.500	0.4	25.0
Ethylbenzene	0.491	0.508	0.100	3.4	25.0
Styrene	1.123	1.154	0.300	2.7	25.0
m,p-Xylene	0.612	0.637	0.300	4.2	25.0
o-Xylene	0.605	0.628		3.8	
1,2-Dibromoethane	0.402	0.419		4.2	
Isopropylbenzene	1.486	1.725		16.1	
1,3-Dichlorobenzene	0.723	0.800		10.6	
1,4-Dichlorobenzene	0.744	0.815		9.6	
1,2-Dichlorobenzene	0.685	0.748		9.2	
1,2-Dibromo-3-chloropropane	0.088	0.095		7.5	
1,2,4-Trichlorobenzene	0.382	0.501		31.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V464

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/12/09 Time: 10:38

Lab File ID: 09\G3557.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	2.426	2.259		-6.9	
Toluene-d8	1.368	1.218		-11.0	
4-Bromofluorobenzene	0.585	0.527	0.200	-10.0	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V465

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/13/09 Time: 10:45

Lab File ID: 09\G3580.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No. (VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.485		26.8	
Dichlorodifluoromethane	1.753	1.993		13.7	
Bromomethane	1.292	1.723	0.100	33.3	25.0
Vinyl chloride	2.174	2.433	0.100	11.9	25.0
Chloroethane	1.461	1.643		12.5	
Methylene chloride	4.550	3.158		-30.6	
Acetone	0.822	0.734		-10.7	
Trichlorofluoromethane	2.210	2.595		17.4	
1,1-Dichloroethene	1.910	1.847	0.100	-3.3	25.0
Carbon disulfide	6.952	6.699		-3.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.830		4.3	
1,1-Dichloroethane	4.398	4.731	0.200	7.6	25.0
Chloroform	3.905	4.315	0.200	10.5	25.0
1,2-Dichloroethane	2.713	3.059	0.100	12.7	25.0
Methyl Acetate	1.798	1.884		4.8	
2-Butanone	1.290	1.308		1.4	
1,1,1-Trichloroethane	0.584	0.544	0.100	-6.8	25.0
trans-1,2-Dichloroethene	2.270	2.343		3.2	
Carbon tetrachloride	0.443	0.411	0.100	-7.3	25.0
Methyl tert-butyl ether	5.691	6.265		10.1	
Bromodichloromethane	0.513	0.515	0.200	0.4	25.0
1,2-Dichloropropane	0.428	0.455		6.4	
cis-1,2-Dichloroethene	2.539	2.723		7.2	
cis-1,3-Dichloropropene	0.685	0.719	0.200	4.9	25.0
Trichloroethene	0.398	0.393	0.300	-1.3	25.0
Dibromochloromethane	0.404	0.405	0.100	0.2	25.0
1,1,2-Trichloroethane	0.353	0.366	0.100	3.8	25.0
Benzene	1.388	1.403	0.500	1.1	25.0
Cyclohexane	0.586	0.632		7.8	
trans-1,3-Dichloropropene	0.638	0.657	0.100	3.0	25.0
Bromoform	0.263	0.251	0.100	-4.7	25.0
4-Methyl-2-pentanone	0.469	0.427		-9.0	
2-Hexanone	0.373	0.338		-9.4	
Tetrachloroethene	0.274	0.257	0.200	-6.2	25.0
1,1,2,2-Tetrachloroethane	0.517	0.520	0.300	0.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V469

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/13/09 Time: 10:45

Lab File ID: 09\G3580.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.497		24.0	
Toluene	1.476	1.344	0.400	-8.9	25.0
Chlorobenzene	1.070	1.013	0.500	-5.3	25.0
Ethylbenzene	0.491	0.475	0.100	-3.3	25.0
Styrene	1.123	1.105	0.300	-1.6	25.0
m,p-Xylene	0.612	0.602	0.300	-1.6	25.0
o-Xylene	0.605	0.600		-0.8	
1,2-Dibromoethane	0.402	0.387		-3.7	
Isopropylbenzene	1.486	1.627		9.5	
1,3-Dichlorobenzene	0.723	0.768		6.2	
1,4-Dichlorobenzene	0.744	0.783		5.3	
1,2-Dichlorobenzene	0.685	0.709		3.5	
1,2-Dibromo-3-chloropropane	0.088	0.083		-6.1	
1,2,4-Trichlorobenzene	0.382	0.465		21.7	

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V470

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP5972-2 Calibration Date: 10/13/09 Time: 10:45

Lab File ID: 09\G3580.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	2.426	2.238		-7.8	
Toluene-d8	1.368	1.192		-12.9	
4-Bromofluorobenzene	0.585	0.540	0.200	-7.8	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM050 V471

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix Spike - EPA Sample No.: TP-3(7.5) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	63	0	60	95	59-172
Trichloroethene	63	0	45	71	62-137
Benzene	63	0	62	97	66-142
Toluene	63	0	55	87	59-139
Chlorobenzene	63	0	47	74	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	63	47	74	25*	22	59-172
Trichloroethene	63	40	63	12	24	62-137
Benzene	63	57	90	7	21	66-142
Toluene	63	50	79	10	21	59-139
Chlorobenzene	63	42	66	11	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

AECOM050 V7

1D

EPA SAMPLE NO.

MB-33167

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	72	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM050 B625

1C

EPA SAMPLE NO.

MB-33167

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1´-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM050 B624

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/02/09

Lab File ID (Standard): 9\N34403.D Time Analyzed: 12:51

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	1048086	11.97	1283558	15.04	1063771	16.15
	UPPER LIMIT	2096172	12.47	2567116	15.54	2127542	16.65
	LOWER LIMIT	524043	11.47	641779	14.54	531886	15.65
	EPA SAMPLE NO.						
01	MB-33027	1093497	11.95	1257715	15.02	1137925	16.13
02	LFB-33027	1168697	11.96	1433384	15.03	1211891	16.13
03	SB-15 (3-4)	1188469	11.98	1242640	15.06	637889	16.16
04	SB-16 (2-3)	1168342	11.97	1287310	15.05	665102	16.15
05	SB-18 (4-5)	1247620	12.00	777214	15.09	494896* 46.5/	16.19

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM050 B33

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/12/09

Lab File ID (Standard): 9\N34565.D Time Analyzed: 17:01

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	213143	4.33	742887	5.85	445003	8.88
	UPPER LIMIT	426286	4.83	1485774	6.35	890006	9.38
	LOWER LIMIT	106572	3.83	371444	5.35	222502	8.38
	EPA SAMPLE NO.						
01	MB-33167	181572	4.33	662330	5.84	400275	8.87
02	LFB-33167	210691	4.33	767274	5.84	464759	8.87
03	SB-14 (1'-2')	249524	4.33	893772	5.84	529668	8.87
04	SB-14B (11'-13')	235084	4.33	892493	5.90	533481	8.93
05	SB-9 (36'-38')	263817	4.33	989981	5.86	574740	8.90
06	SB-9 (4'-5')	212955	4.33	765781	5.85	444073	8.88
07	SB-10 (3'-4')	239438	4.33	859755	5.84	505344	8.88
08	SB-10 (16'-18')	101978*	4.35	349445* 47.0	6.21	351468	9.10

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/12/09

Lab File ID (Standard): 9\N34565.D Time Analyzed: 17:01

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #	
	12 HOUR STD	730217	11.76	831830	14.91	667613	16.00	
	UPPER LIMIT	1460434	12.26	1663660	15.41	1335226	16.50	
	LOWER LIMIT	365109	11.26	415915	14.41	333807	15.50	
	EPA SAMPLE NO.							
01	MB-33167	655540	11.75	688844	14.91	595122	16.00	
02	LFB-33167	766938	11.75	864909	14.91	709747	16.01	
03	SB-14 (1'-2')	852097	11.75	920746	14.92	697082	16.00	
04	SB-14B (11'-13')	877890	11.85	912434	14.95	586464	16.01	
05	SB-9 (36'-38')	942156	11.85	870702	14.96	402263	16.04	
06	SB-9 (4'-5')	708754	11.76	618267	14.94	249058* 37.3	16.03	1X
07	SB-10 (3'-4')	796880	11.76	732883	14.93	322457* 48.3	16.02	1X
08	SB-10 (16'-18')	514408	11.91	241423* 29.0	15.02	130843* 19.6	16.04	1Y

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM050 B39

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/13/09

Lab File ID (Standard): 9\N34594.D Time Analyzed: 17:33

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	276899	4.34	954068	5.85	579512	8.88
	UPPER LIMIT	553798	4.84	1908136	6.35	1159024	9.38
	LOWER LIMIT	138450	3.84	477034	5.35	289756	8.38
	EPA SAMPLE NO.						
01	SB-9 (4'-5')DL	218672	4.33	780691	5.84	481687	8.87
02	SB-9 (36'-38')DL	224618	4.33	836703	5.84	512599	8.87
03	SB-10 (3'-4')DL	261333	4.33	913661	5.84	560334	8.87
04	SB-14B (11'-13')DL	237291	4.33	876027	5.84	537553	8.87
05	SB-10 (16'-18')DL	213609	4.33	783311	5.84	480278	8.87
06	SB-4 (1'-2')DL	209340	4.33	764996	5.84	470886	8.87
07	SB-10 (40'-41.5')D	220521	4.33	796174	5.84	483537	8.87
08	SB-12 (4'-5')	266719	4.33	1072865	5.88	603600	8.89
09	SB-4 (1'-2')	242483	4.33	369782* 38.8	6.21	519458	8.95
10	SB-10 (40'-41.5')	255862	4.35	322000* 33.7	5.91	565672	9.06

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/13/09

Lab File ID (Standard): 9\N34594.D Time Analyzed: 17:33

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	936167	11.76	967438	14.91	716180	15.99
	UPPER LIMIT	1872334	12.26	1934876	15.41	1432360	16.49
	LOWER LIMIT	468084	11.26	483719	14.41	358090	15.49
	EPA SAMPLE NO.						
01	SB-9 (4'-5')DL	777989	11.75	823887	14.91	673267	16.00
02	SB-9 (36'-38')DL	821656	11.75	868513	14.91	685310	16.00
03	SB-10 (3'-4')DL	906804	11.75	955722	14.91	753457	16.00
04	SB-14B (11'-13')DL	863677	11.75	888227	14.91	697912	16.00
05	SB-10 (16'-18')DL	770761	11.74	803484	14.91	646080	16.00
06	SB-4 (1'-2')DL	763935	11.74	811655	14.91	646155	16.00
07	SB-10 (40'-41.5')D	774356	11.74	796421	14.91	630763	16.00
08	SB-12 (4'-5')	941772	11.86	683039	14.99	441412	16.05
09	SB-4 (1'-2')	509270	11.90	216407* 22.4	15.03	130298* 13.2	16.06
10	SB-10 (40'-41.5')	584138	11.94	345810* 35.7	15.00	145386* 20.3	16.04

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM050 B41

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/16/09

Lab File ID (Standard): 9\N34667.D Time Analyzed: 16:57

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	852767	11.60	961744	14.83	827717	15.90
	UPPER LIMIT	1705534	12.10	1923488	15.33	1655434	16.40
	LOWER LIMIT	426384	11.10	480872	14.33	413859	15.40
	EPA SAMPLE NO.						
01	SB-12 (4'-5')DL	744323	11.59	828523	14.82	751850	15.89
02	SB-13 (18'-24')DL	807108	11.59	893532	14.82	812866	15.89
03	MB-33232	721995	11.59	738720	14.82	651378	15.90
04	LCS-33232	760880	11.59	791017	14.82	688395	15.90
05	LFB-33232	928501	11.60	1028370	14.83	862939	15.90
06	DUP-2	713137	11.60	846546	14.84	559933	15.91
07	TP-3 (7.0)	746382	11.59	861652	14.83	606236	15.91
08	TP-3 (7.5)	794246	11.59	877680	14.83	672839	15.91
09	TP-3 (7.5)MS	757833	11.59	855261	14.83	637346	15.92
10	TP-3 (7.5)MSD	803253	11.59	857911	14.83	558490	15.91
11	SB-13 (18'-24')	796132	11.68	804039	14.86	402904* 48.1	15.91

17

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM050 B43

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/02/09 15:33 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1100	68	37-137
Benzaldehyde	1700	0	430	26*	40-140
Phenol	1700	0	1200	73	25-131
Bis(2-chloroethyl)ether	1700	0	1400	82	39-111
2-Chlorophenol	1700	0	1300	79	48-116
2-Methylphenol	1700	0	1200	75	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	75	28-146
Acetophenone	1700	0	1300	77	60-140
N-Nitroso-di-n-propylamine	1700	0	1100	68	40-124
Hexachloroethane	1700	0	1200	73	41-119
Nitrobenzene	1700	0	1200	74	48-126
Isophorone	1700	0	1200	73	33-131
2-Nitrophenol	1700	0	1300	77	41-121
2,4-Dimethylphenol	1700	0	970	58	39-135
Bis(2-chloroethoxy)methane	1700	0	1300	76	20-148
2,4-Dichlorophenol	1700	0	1300	77	46-130
Naphthalene	1700	0	1200	72	47-117
4-Chloroaniline	1700	0	1100	65	25-133
Hexachlorobutadiene	1700	0	1200	71	11-135
Caprolactam	1700	0	1300	76	40-140
4-Chloro-3-methylphenol	1700	0	1300	77	45-135
2-Methylnaphthalene	1700	0	1200	74	60-140
Hexachlorocyclopentadiene	1700	0	930	56	13-119
2,4,6-Trichlorophenol	1700	0	1300	79	53-131
2,4,5-Trichlorophenol	1700	0	1300	81	48-132
1,1'-Biphenyl	1700	0	1300	78	40-140
2-Chloronaphthalene	1700	0	1100	65	47-123
2-Nitroaniline	1700	0	1300	80	41-131
Dimethylphthalate	1700	0	1300	78	10-162
2,6-Dinitrotoluene	1700	0	1300	76	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B7

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/02/09 15:33 10/01/09 15:59

Acenaphthylene	1700	0	1200	72	61-135
3-Nitroaniline	1700	0	1300	78	11-167
Acenaphthene	1700	0	1300	76	36-132
2,4-Dinitrophenol	1700	0	1400	83	11-101
4-Nitrophenol	1700	0	1400	84	22-156
Dibenzofuran	1700	0	1300	77	24-156
2,4-Dinitrotoluene	1700	0	1300	77	48-134
Diethylphthalate	1700	0	1300	77	24-156
Fluorene	1700	0	1300	76	55-129
4-Chlorophenyl-phenylether	1700	0	1300	76	50-130
4-Nitroaniline	1700	0	1300	76	14-136
4,6-Dinitro-2-methylphenol	1700	0	1500	87	47-107
N-Nitrosodiphenylamine	1700	0	1000	61	27-135
4-Bromophenyl-phenylether	1700	0	1200	74	50-142
Hexachlorobenzene	1700	0	1200	75	56-154
Atrazine	1700	0	1400	86	40-140
Pentachlorophenol	1700	0	1300	78	12-124
Phenanthrene	1700	0	1300	77	57-135
Anthracene	1700	0	1200	74	61-135
Carbazole	1700	0	1200	73	47-143
Di-n-butyl phthalate	1700	0	1400	84	44-144
Fluoranthene	1700	0	1400	82	61-135
Pyrene	1700	0	1300	81	58-136
Butyl benzyl phthalate	1700	0	1500	87	49-135
3,3'-Dichlorobenzidine	1700	0	1200	69	20-132
Benzo(a)anthracene	1700	0	1400	82	56-136
Chrysene	1700	0	1300	80	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	91	33-193
Di-n-octyl phthalate	1700	0	1500	89	45-155
Benzo(b)fluoranthene	1700	0	1300	78	43-147
Benzo(k)fluoranthene	1700	0	1300	80	53-159
Benzo(a)pyrene	1700	0	1400	84	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	87	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B8

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33027 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/02/09 15:33 10/01/09 15:59

Dibenzo(a,h)anthracene	1700	0	1400	86	15-185
Benzo(g,h,i)perylene	1700	0	1300	76	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B9

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33079 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/09/09 13:59 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	77	37-137
Benzaldehyde	1700	0	200	12*	40-140
Phenol	1700	0	1300	77	25-131
Bis(2-chloroethyl)ether	1700	0	1400	86	39-111
2-Chlorophenol	1700	0	1400	83	48-116
2-Methylphenol	1700	0	1400	82	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1400	82	28-146
Acetophenone	1700	0	1500	93	60-140
N-Nitroso-di-n-propylamine	1700	0	1600	94	40-124
Hexachloroethane	1700	0	1300	79	41-119
Nitrobenzene	1700	0	1300	79	48-126
Isophorone	1700	0	1300	77	33-131
2-Nitrophenol	1700	0	1400	82	41-121
2,4-Dimethylphenol	1700	0	1200	73	39-135
Bis(2-chloroethoxy)methane	1700	0	1300	80	20-148
2,4-Dichlorophenol	1700	0	1400	83	46-130
Naphthalene	1700	0	1300	77	47-117
4-Chloroaniline	1700	0	1600	95	25-133
Hexachlorobutadiene	1700	0	1300	76	11-135
Caprolactam	1700	0	1500	91	40-140
4-Chloro-3-methylphenol	1700	0	1400	83	45-135
2-Methylnaphthalene	1700	0	1300	79	60-140
Hexachlorocyclopentadiene	1700	0	970	58	13-119
2,4,6-Trichlorophenol	1700	0	1400	82	53-131
2,4,5-Trichlorophenol	1700	0	1400	82	48-132
1,1'-Biphenyl	1700	0	1500	89	40-140
2-Chloronaphthalene	1700	0	1100	66	47-123
2-Nitroaniline	1700	0	1400	84	41-131
Dimethylphthalate	1700	0	1400	82	10-162
2,6-Dinitrotoluene	1700	0	1300	78	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33079 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/09/09 13:59 10/01/09 15:59

Acenaphthylene	1700	0	1300	76	61-135
3-Nitroaniline	1700	0	1300	80	11-167
Acenaphthene	1700	0	1300	79	36-132
2,4-Dinitrophenol	1700	0	1200	73	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1300	79	24-156
2,4-Dinitrotoluene	1700	0	1300	79	48-134
Diethylphthalate	1700	0	1300	81	24-156
Fluorene	1700	0	1300	79	55-129
4-Chlorophenyl-phenylether	1700	0	1300	80	50-130
4-Nitroaniline	1700	0	1400	82	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	78	47-107
N-Nitrosodiphenylamine	1700	0	1100	65	27-135
4-Bromophenyl-phenylether	1700	0	1300	80	50-142
Hexachlorobenzene	1700	0	1300	79	56-154
Atrazine	1700	0	1700	102	40-140
Pentachlorophenol	1700	0	1300	75	12-124
Phenanthrene	1700	0	1400	82	57-135
Anthracene	1700	0	1300	80	61-135
Carbazole	1700	0	1400	81	47-143
Di-n-butyl phthalate	1700	0	1400	84	44-144
Fluoranthene	1700	0	1400	83	61-135
Pyrene	1700	0	1400	83	58-136
Butyl benzyl phthalate	1700	0	1500	88	49-135
3,3'-Dichlorobenzidine	1700	0	1800	106	20-132
Benzo(a)anthracene	1700	0	1400	83	56-136
Chrysene	1700	0	1400	81	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	92	33-193
Di-n-octyl phthalate	1700	0	1500	90	45-155
Benzo(b)fluoranthene	1700	0	1100	66	43-147
Benzo(k)fluoranthene	1700	0	1700	100	53-159
Benzo(a)pyrene	1700	0	1500	88	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	87	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33079 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/09/09 13:59 10/01/09 15:59

Dibenzo(a,h)anthracene	1700	0	1400	87	15-185
Benzo(g,h,i)perylene	1700	0	1300	80	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B12

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1000	62	37-137
Benzaldehyde	1700	0	400	24*	40-140
Phenol	1700	0	1100	63	25-131
Bis(2-chloroethyl)ether	1700	0	1100	67	39-111
2-Chlorophenol	1700	0	1100	69	48-116
2-Methylphenol	1700	0	1200	71	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1100	67	28-146
Acetophenone	1700	0	1300	77	60-140
N-Nitroso-di-n-propylamine	1700	0	1100	65	40-124
Hexachloroethane	1700	0	1100	65	41-119
Nitrobenzene	1700	0	1100	66	48-126
Isophorone	1700	0	1100	64	33-131
2-Nitrophenol	1700	0	1100	68	41-121
2,4-Dimethylphenol	1700	0	1000	62	39-135
Bis(2-chloroethoxy)methane	1700	0	1100	68	20-148
2,4-Dichlorophenol	1700	0	1200	70	46-130
Naphthalene	1700	0	1100	65	47-117
4-Chloroaniline	1700	0	920	55	25-133
Hexachlorobutadiene	1700	0	1000	63	11-135
Caprolactam	1700	0	1400	82	40-140
4-Chloro-3-methylphenol	1700	0	1200	72	45-135
2-Methylnaphthalene	1700	0	1100	68	60-140
Hexachlorocyclopentadiene	1700	0	820	49	13-119
2,4,6-Trichlorophenol	1700	0	1200	72	53-131
2,4,5-Trichlorophenol	1700	0	1200	72	48-132
1,1'-Biphenyl	1700	0	1300	76	40-140
2-Chloronaphthalene	1700	0	1000	63	47-123
2-Nitroaniline	1700	0	1200	74	41-131
Dimethylphthalate	1700	0	1200	75	10-162
2,6-Dinitrotoluene	1700	0	1200	71	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B13

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 15:59

Acenaphthylene	1700	0	1100	66	61-135
3-Nitroaniline	1700	0	1200	71	11-167
Acenaphthene	1700	0	1200	70	36-132
2,4-Dinitrophenol	1700	0	1100	67	11-101
4-Nitrophenol	1700	0	1200	69	22-156
Dibenzofuran	1700	0	1200	72	24-156
2,4-Dinitrotoluene	1700	0	1200	73	48-134
Diethylphthalate	1700	0	1200	74	24-156
Fluorene	1700	0	1200	70	55-129
4-Chlorophenyl-phenylether	1700	0	1200	70	50-130
4-Nitroaniline	1700	0	1200	73	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	77	47-107
N-Nitrosodiphenylamine	1700	0	990	59	27-135
4-Bromophenyl-phenylether	1700	0	1200	73	50-142
Hexachlorobenzene	1700	0	1200	72	56-154
Atrazine	1700	0	1600	94	40-140
Pentachlorophenol	1700	0	1200	73	12-124
Phenanthrene	1700	0	1300	76	57-135
Anthracene	1700	0	1200	74	61-135
Carbazole	1700	0	1300	76	47-143
Di-n-butyl phthalate	1700	72	1400	82	44-144
Fluoranthene	1700	0	1300	80	61-135
Pyrene	1700	0	1300	78	58-136
Butyl benzyl phthalate	1700	0	1400	86	49-135
3,3'-Dichlorobenzidine	1700	0	1400	82	20-132
Benzo(a)anthracene	1700	0	1300	81	56-136
Chrysene	1700	0	1300	78	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	93	33-193
Di-n-octyl phthalate	1700	0	1500	87	45-155
Benzo(b)fluoranthene	1700	0	1200	71	43-147
Benzo(k)fluoranthene	1700	0	1500	87	53-159
Benzo(a)pyrene	1700	0	1400	85	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	85	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B14

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 15:59

Dibenzo(a,h)anthracene	1700	0	1400	86	15-185
Benzo(g,h,i)perylene	1700	0	1300	79	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM050 B15

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	78	37-137
Benzaldehyde	1700	0	540	32*	40-140
Phenol	1700	0	1300	76	25-131
Bis(2-chloroethyl)ether	1700	0	1300	80	39-111
2-Chlorophenol	1700	0	1400	84	48-116
2-Methylphenol	1700	0	1400	86	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1400	85	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	76	40-124
Hexachloroethane	1700	0	1300	78	41-119
Nitrobenzene	1700	0	1400	82	48-126
Isophorone	1700	0	1300	79	33-131
2-Nitrophenol	1700	0	1400	86	41-121
2,4-Dimethylphenol	1700	0	1300	76	39-135
Bis(2-chloroethoxy)methane	1700	0	1400	82	20-148
2,4-Dichlorophenol	1700	0	1500	88	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	70	25-133
Hexachlorobutadiene	1700	0	1300	78	11-135
Caprolactam	1700	0	1200	71	40-140
4-Chloro-3-methylphenol	1700	0	1500	89	45-135
2-Methylnaphthalene	1700	0	1400	85	60-140
Hexachlorocyclopentadiene	1700	0	1100	66	13-119
2,4,6-Trichlorophenol	1700	0	1500	92	53-131
2,4,5-Trichlorophenol	1700	0	1600	94	48-132
1,1'-Biphenyl	1700	0	1500	88	40-140
2-Chloronaphthalene	1700	0	1300	76	47-123
2-Nitroaniline	1700	0	1500	92	41-131
Dimethylphthalate	1700	0	1500	91	10-162
2,6-Dinitrotoluene	1700	0	1500	88	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM050 B16

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Sample ID LFB-33232 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

Acenaphthylene	1700	0	1400	83	61-135
3-Nitroaniline	1700	0	1400	85	11-167
Acenaphthene	1700	0	1400	86	36-132
2,4-Dinitrophenol	1700	0	1700	103*	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1500	88	24-156
2,4-Dinitrotoluene	1700	0	1500	90	48-134
Diethylphthalate	1700	0	1500	90	24-156
Fluorene	1700	0	1500	88	55-129
4-Chlorophenyl-phenylether	1700	0	1500	90	50-130
4-Nitroaniline	1700	0	1500	87	14-136
4,6-Dinitro-2-methylphenol	1700	0	1800	108*	47-107
N-Nitrosodiphenylamine	1700	0	1200	75	27-135
4-Bromophenyl-phenylether	1700	0	1500	88	50-142
Hexachlorobenzene	1700	0	1500	92	56-154
Atrazine	1700	0	1700	104	40-140
Pentachlorophenol	1700	0	1700	100	12-124
Phenanthrene	1700	0	1600	95	57-135
Anthracene	1700	0	1500	92	61-135
Carbazole	1700	0	1500	90	47-143
Di-n-butyl phthalate	1700	0	1600	97	44-144
Fluoranthene	1700	0	1600	95	61-135
Pyrene	1700	0	1600	95	58-136
Butyl benzyl phthalate	1700	0	1700	100	49-135
3,3'-Dichlorobenzidine	1700	0	1500	89	20-132
Benzo(a)anthracene	1700	0	1600	95	56-136
Chrysene	1700	0	1500	91	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1800	106	33-193
Di-n-octyl phthalate	1700	0	1700	104	45-155
Benzo(b)fluoranthene	1700	0	1400	81	43-147
Benzo(k)fluoranthene	1700	0	1800	108	53-159
Benzo(a)pyrene	1700	0	1700	100	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	92	26-156

ok [illegible] 12/10/09

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS: _____

AECOM050 B17

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM050

Sample ID LFB-33232 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

Dibenzo(a,h)anthracene	1700	0	1500	92	15-185
Benzo(g,h,i)perylene	1700	0	1200	74	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM050 B18

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-33027	70	69	75	72	77	90	70	70	0
02	LFB-33027	70	74	78	76	78	80	72	73	0
03	SB-15 (3-4)	89	81	86	93	96	105	82	80	0
04	SB-16 (2-3)	61	61	67	90	77	102	62	61	0
05	SB-18 (4-5)	36	45	50	91	69	178 *	41	37	1
06	SB-16 (2-3)DL	80	89	92	119	105	122	86	88	0
07	SB-18 (4-5)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
08	MB-33079	74	78	82	78	81	96	76	76	0
09	LCS-33079	78	83	89	88	88	99	82	77	0
10	LFB-33079	78	84	90	89	87	87	82	83	0
11	SB-9 (20'-21.5')	68	73	78	80	77	93	70	69	0
12	SB-9 (40'-42')	67	74	76	80	77	93	70	70	0
13	SB-10 (48'-50')	71	76	81	86	82	94	73	71	0
14	MB-33167	67	71	72	74	74	99	68	67	0
15	LFB-33167	64	69	73	77	74	82	67	67	0
16	SB-14 (1'-2')	66	72	76	90	85	96	67	63	0
17	SB-14B (11'-13')	56	67	69	88	83	100	59	56	0
18	SB-9 (36'-38')	53	62	64	83	77	111	56	55	0
19	SB-9 (4'-5')	76	85	79	93	86	126	71	68	0
20	SB-10 (3'-4')	65	71	74	88	84	112	68	66	0
21	SB-10 (16'-18')	105	39	67	74	88	260 *	50	47	1
22	SB-9 (4'-5')DL	90	81	81	101	98	110	75	78	0
23	SB-9 (36'-38')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
24	SB-10 (3'-4')DL	71	73	79	93	89	101	72	76	0
25	SB-14B (11'-13')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
26	SB-10 (16'-18')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
27	SB-4 (1'-2')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
28	SB-10 (40'-41.5')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
29	SB-12 (4'-5')	47	54	63	91	73	136	53	48	0

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(25-121)	
S 2	NBZ	= Nitrobenzene-d5	(23-120)	
S 3	PD5	= Phenol-d5	(24-113)	
S 4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S 5	FBP	= 2-Fluorobiphenyl	(30-115)	
S 6	TPH	= 4-Terphenyl-d14	(18-137)	
S 7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

AECOM050 B3

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM050

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
31	SB-4 (1'-2')	56	69	73	88	83	257 *	58	53	1
32	SB-10 (40'-41.5')	63	88	62	91	85	280 *	28	55	1
33	SB-12 (4'-5')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
34	SB-13 (18'-24')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
35	MB-33232	82	88	92	92	93	109	85	84	0
36	LCS-33232	75	81	86	86	86	100	79	76	0
37	LFB-33232	73	81	83	90	87	93	77	78	0
38	DUP-2	93	87	87	102	94	95	92	84	0
39	TP-3 (7.0)	90	84	83	101	90	95	90	81	0
40	TP-3 (7.5)	93	87	86	101	91	98	93	86	0
41	TP-3 (7.5)MS	96	91	92	106	97	100	99	88	0
42	TP-3 (7.5)MSD	90	86	86	95	89	98	92	82	0
43	SB-13 (18'-24')	27	70	60	55	66	66	45	60	0
44	DUP-2DL	83	79	68	94	90	90	81	84	0
45	SB-15 (3-4)DL	85	86	86	87	99	95	84	85	0

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(25-121)	
S 2	NBZ	= Nitrobenzene-d5	(23-120)	
S 3	PD5	= Phenol-d5	(24-113)	
S 4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S 5	FBP	= 2-Fluorobiphenyl	(30-115)	
S 6	TPH	= 4-Terphenyl-d14	(18-137)	
S 7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM050 B4

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-32987	92	119	101	132			0
02	LFB2-32987	90	109	97	127			0
03	SB-15 (3-4)	74	94	112	610 *			1
04	SB-15 (3-4)DL	74	110	117	543 D			0
05	MB-33041	101	125	109	142			0
06	LFB2-33041	100	124	107	139			0
07	SB-16 (2-3)	76	113	116	245 *			1
08	SB-18 (4-5)	51	537 *	122	297 *			2
09	SB-9 (4'-5')	88	98	194 *	352 *			2
10	SB-10 (3'-4')	73	134	163 *	217 *			2
11	SB-14 (1'-2')	59	151 *	115	215 *			2
12	MB-33174	93	118	91	119			0
13	LFB-33174	91	110	92	121			0
14	SB-4 (1'-2')	63	43	85	460 *			1
15	SB-12 (4'-5')	99	82	96	0 * 1.)			1
16	SB-16 (2-3)DL	666 D	453 D	112	194 D			0
17	SB-18 (4-5)DL	65	72	116	153 D			0
18	SB-9 (4'-5')DL	134	92	186 D	269 D			0
19	SB-10 (3'-4')DL	48	62	149	175 D			0

1.) surrogate masked due to matrix interference.

		QC Limits
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

D Sample diluted MMR 10/23/09

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK18 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK18 Time Analyzed: 10:16

EPA Sample No.(PEM): AR166021 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR166021 Time Analyzed: 10:33

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.18	3.12	3.26	0.19	0.20	-5.0
AROCLOR-1016-2	3.65	3.58	3.72	0.17	0.20	-15
AROCLOR-1016-3	3.67	3.61	3.75	0.17	0.20	-15
AROCLOR-1016-4	3.90	3.83	3.97	0.18	0.20	-10
AROCLOR-1016-5	4.31	4.24	4.38	0.19	0.20	-5.0
mean:				0.18	0.2	-10
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.24	0.20	20
AROCLOR-1016-2	3.69	3.63	3.77	0.22	0.20	10
AROCLOR-1016-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1016-4	3.98	3.92	4.06	0.23	0.20	15
AROCLOR-1016-5	4.43	4.37	4.51	0.25	0.20	25
mean:				0.236	0.2	18
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.96	6.89	7.03	0.19	0.20	-5.0
AROCLOR-1260-2	7.23	7.16	7.30	0.19	0.20	-5.0
AROCLOR-1260-3	7.54	7.47	7.61	0.19	0.20	-5.0
AROCLOR-1260-4	7.80	7.73	7.87	0.18	0.20	-10
AROCLOR-1260-5	8.33	8.26	8.40	0.19	0.20	-5.0
mean:				0.188	0.2	-6
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.26	0.20	30
AROCLOR-1260-2	7.41	7.35	7.49	0.25	0.20	25
AROCLOR-1260-3	7.66	7.59	7.73	0.24	0.20	20
AROCLOR-1260-4	7.97	7.91	8.05	0.24	0.20	20
AROCLOR-1260-5	8.45	8.38	8.52	0.25	0.20	25
mean:				0.248	0.2	24

AECOM050 P182

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK19 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK19 Time Analyzed: 12:30

EPA Sample No.(PEM): AR166022 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR166022 Time Analyzed: 12:47

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.18	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.19	0.20	-5.0
AROCLOR-1016-3	3.67	3.61	3.75	0.19	0.20	-5.0
AROCLOR-1016-4	3.89	3.83	3.97	0.20	0.20	0
AROCLOR-1016-5	4.31	4.24	4.38	0.20	0.20	0
mean:				0.196	0.2	-2
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.24	0.20	20
AROCLOR-1016-2	3.69	3.63	3.77	0.24	0.20	20
AROCLOR-1016-3	3.71	3.65	3.79	0.25	0.20	25
AROCLOR-1016-4	3.98	3.92	4.06	0.26	0.20	30
AROCLOR-1016-5	4.43	4.37	4.51	0.26	0.20	30
mean:				0.25	0.2	25
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.96	6.89	7.03	0.18	0.20	-10
AROCLOR-1260-2	7.23	7.16	7.30	0.20	0.20	0
AROCLOR-1260-3	7.54	7.47	7.61	0.19	0.20	-5.0
AROCLOR-1260-4	7.80	7.73	7.87	0.19	0.20	-5.0
AROCLOR-1260-5	8.33	8.26	8.40	0.21	0.20	5.0
mean:				0.194	0.2	-3
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.24	0.20	20
AROCLOR-1260-2	7.42	7.35	7.49	0.23	0.20	15
AROCLOR-1260-3	7.66	7.59	7.73	0.23	0.20	15
AROCLOR-1260-4	7.98	7.91	8.05	0.23	0.20	15
AROCLOR-1260-5	8.45	8.38	8.52	0.23	0.20	15
mean:				0.232	0.2	16

AECOM050 P183

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK19 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK19 Time Analyzed: 12:30

EPA Sample No.(PEM): AR125402 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR125402 Time Analyzed: 13:20

Column(1): RTX_CLP.32 ID: .32 (mm) Column(2): RTX_CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1254						
Column 1						
AROCLOR-1254-1	4.81	4.74	4.88	0.21	0.20	5.0
AROCLOR-1254-2	5.19	5.12	5.26	0.21	0.20	5.0
AROCLOR-1254-3	5.61	5.55	5.69	0.21	0.20	5.0
AROCLOR-1254-4	5.81	5.74	5.88	0.20	0.20	0
AROCLOR-1254-5	6.24	6.17	6.31	0.20	0.20	0
mean:				0.206	0.2	3
Column 2						
AROCLOR-1254-1	5.01	4.95	5.09	0.23	0.20	15
AROCLOR-1254-2	5.30	5.24	5.38	0.24	0.20	20
AROCLOR-1254-3	5.85	5.79	5.93	0.24	0.20	20
AROCLOR-1254-4	6.04	5.98	6.12	0.24	0.20	20
AROCLOR-1254-5	6.38	6.31	6.45	0.24	0.20	20
mean:				0.238	0.2	19

AECOM050 P184

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK19 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK19 Time Analyzed: 12:30

EPA Sample No.(PEM): AR124202 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR124202 Time Analyzed: 15:57

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1242						
Column 1						
AROCLOR-1242-1	3.18	3.12	3.26	0.21	0.20	5.0
AROCLOR-1242-2	3.65	3.58	3.72	0.20	0.20	0
AROCLOR-1242-3	3.67	3.61	3.75	0.21	0.20	5.0
AROCLOR-1242-4	4.31	4.24	4.38	0.21	0.20	5.0
AROCLOR-1242-5	4.93	4.86	5.00	0.21	0.20	5.0
mean:				0.208	0.2	4
Column 2						
AROCLOR-1242-1	3.23	3.16	3.30	0.25	0.20	25
AROCLOR-1242-2	3.69	3.62	3.76	0.23	0.20	15
AROCLOR-1242-3	3.71	3.65	3.79	0.25	0.20	25
AROCLOR-1242-4	4.43	4.37	4.51	0.24	0.20	20
AROCLOR-1242-5	4.96	4.97	5.11	0.24	0.20	20
mean:				0.242	0.2	21

AECOM050 P185

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK20 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK20 Time Analyzed: 16:13

EPA Sample No.(PEM): AR166023 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR166023 Time Analyzed: 16:30

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.18	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.18	0.20	-10
AROCLOR-1016-3	3.67	3.61	3.75	0.19	0.20	-5.0
AROCLOR-1016-4	3.89	3.83	3.97	0.20	0.20	0
AROCLOR-1016-5	4.31	4.24	4.38	0.21	0.20	5.0
mean:				0.196	0.2	-2
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.26	0.20	30
AROCLOR-1016-2	3.69	3.63	3.77	0.23	0.20	15
AROCLOR-1016-3	3.71	3.65	3.79	0.27	0.20	35
AROCLOR-1016-4	3.98	3.92	4.06	0.26	0.20	30
AROCLOR-1016-5	4.43	4.37	4.51	0.27	0.20	35
mean:				0.258	0.2	29
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.96	6.89	7.03	0.20	0.20	0
AROCLOR-1260-2	7.23	7.16	7.30	0.20	0.20	0
AROCLOR-1260-3	7.54	7.47	7.61	0.20	0.20	0
AROCLOR-1260-4	7.80	7.73	7.87	0.19	0.20	-5.0
AROCLOR-1260-5	8.33	8.26	8.40	0.20	0.20	0
mean:				0.198	0.2	-1
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.26	0.20	30
AROCLOR-1260-2	7.41	7.35	7.49	0.25	0.20	25
AROCLOR-1260-3	7.66	7.59	7.73	0.25	0.20	25
AROCLOR-1260-4	7.98	7.91	8.05	0.24	0.20	20
AROCLOR-1260-5	8.45	8.38	8.52	0.25	0.20	25
mean:				0.25	0.2	25

AECOM050 P186

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK21 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK21 Time Analyzed: 21:48

EPA Sample No.(PEM): AR166024 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR166024 Time Analyzed: 22:05

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.18	3.12	3.26	0.21	0.20	5.0
AROCLOR-1016-2	3.65	3.58	3.72	0.21	0.20	5.0
AROCLOR-1016-3	3.67	3.61	3.75	0.20	0.20	0
AROCLOR-1016-4	3.89	3.83	3.97	0.21	0.20	5.0
AROCLOR-1016-5	4.31	4.24	4.38	0.21	0.20	5.0
mean:				0.208	0.2	4
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.25	0.20	25
AROCLOR-1016-2	3.69	3.63	3.77	0.25	0.20	25
AROCLOR-1016-3	3.71	3.65	3.79	0.25	0.20	25
AROCLOR-1016-4	3.98	3.92	4.06	0.25	0.20	25
AROCLOR-1016-5	4.43	4.37	4.51	0.25	0.20	25
mean:				0.25	0.2	25
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.96	6.89	7.03	0.18	0.20	-10
AROCLOR-1260-2	7.23	7.16	7.30	0.19	0.20	-5.0
AROCLOR-1260-3	7.54	7.47	7.61	0.19	0.20	-5.0
AROCLOR-1260-4	7.80	7.73	7.87	0.19	0.20	-5.0
AROCLOR-1260-5	8.33	8.26	8.40	0.18	0.20	-10
mean:				0.186	0.2	-7
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.21	0.20	5.0
AROCLOR-1260-2	7.42	7.35	7.49	0.21	0.20	5.0
AROCLOR-1260-3	7.66	7.59	7.73	0.21	0.20	5.0
AROCLOR-1260-4	7.98	7.91	8.05	0.21	0.20	5.0
AROCLOR-1260-5	8.45	8.38	8.52	0.21	0.20	5.0
mean:				0.21	0.2	5

AECOM050 P187

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK21 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK21 Time Analyzed: 21:48

EPA Sample No.(PEM): AR124203 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR124203 Time Analyzed: 22:21

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Arcolor 1242 Column 1						
AROCLOR-1242-1	3.18	3.12	3.26	0.26	0.20	30
AROCLOR-1242-2	3.65	3.58	3.72	0.23	0.20	15
AROCLOR-1242-3	3.67	3.61	3.75	0.21	0.20	5.0
AROCLOR-1242-4	4.31	4.24	4.38	0.22	0.20	10
AROCLOR-1242-5	4.92	4.86	5.00	0.22	0.20	10
mean:				0.228	0.2	14
Column 2						
AROCLOR-1242-1	3.23	3.16	3.30	0.25	0.20	25
AROCLOR-1242-2	3.69	3.62	3.76	0.24	0.20	20
AROCLOR-1242-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1242-4	4.43	4.37	4.51	0.24	0.20	20
AROCLOR-1242-5	4.96	4.97	5.11	0.24	0.20	20
mean:				0.242	0.2	21

AECOM050 P188

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK21 Date Analyzed: 10/05/09

Lab Sample ID(PIBLK): PIBLK21 Time Analyzed: 21:48

EPA Sample No.(PEM): AR125403 Date Analyzed: 10/05/09

Lab Sample ID(PEM): AR125403 Time Analyzed: 22:38

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1254						
Column 1						
AROCLOR-1254-1	4.81	4.74	4.88	0.22	0.20	10
AROCLOR-1254-2	5.19	5.12	5.26	0.22	0.20	10
AROCLOR-1254-3	5.61	5.55	5.69	0.22	0.20	10
AROCLOR-1254-4	5.81	5.74	5.88	0.22	0.20	10
AROCLOR-1254-5	6.24	6.17	6.31	0.22	0.20	10
mean:				0.22	0.2	10
Column 2						
AROCLOR-1254-1	5.01	4.95	5.09	0.23	0.20	15
AROCLOR-1254-2	5.30	5.24	5.38	0.25	0.20	25
AROCLOR-1254-3	5.85	5.79	5.93	0.24	0.20	20
AROCLOR-1254-4	6.04	5.98	6.12	0.24	0.20	20
AROCLOR-1254-5	6.38	6.31	6.45	0.24	0.20	20
mean:				0.24	0.2	20

AECOM050 P189

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK38 Date Analyzed: 10/12/09

Lab Sample ID(PIBLK): PIBLK38 Time Analyzed: 12:21

EPA Sample No.(PEM): AR166040 Date Analyzed: 10/12/09

Lab Sample ID(PEM): AR166040 Time Analyzed: 12:38

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.19	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.18	0.20	-10
AROCLOR-1016-3	3.68	3.61	3.75	0.19	0.20	-5.0
AROCLOR-1016-4	3.90	3.83	3.97	0.19	0.20	-5.0
AROCLOR-1016-5	4.31	4.24	4.38	0.20	0.20	0
mean:				0.192	0.2	-4
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.24	0.20	20
AROCLOR-1016-2	3.69	3.63	3.77	0.23	0.20	15
AROCLOR-1016-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1016-4	3.98	3.92	4.06	0.24	0.20	20
AROCLOR-1016-5	4.43	4.37	4.51	0.25	0.20	25
mean:				0.24	0.2	20
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.97	6.89	7.03	0.19	0.20	-5.0
AROCLOR-1260-2	7.23	7.16	7.30	0.19	0.20	-5.0
AROCLOR-1260-3	7.55	7.47	7.61	0.19	0.20	-5.0
AROCLOR-1260-4	7.81	7.73	7.87	0.18	0.20	-10
AROCLOR-1260-5	8.33	8.26	8.40	0.19	0.20	-5.0
mean:				0.188	0.2	-6
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.23	0.20	15
AROCLOR-1260-2	7.42	7.35	7.49	0.23	0.20	15
AROCLOR-1260-3	7.66	7.59	7.73	0.23	0.20	15
AROCLOR-1260-4	7.98	7.91	8.05	0.23	0.20	15
AROCLOR-1260-5	8.45	8.38	8.52	0.24	0.20	20
mean:				0.232	0.2	16

AECOM050 P190

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM050

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK39 Date Analyzed: 10/12/09

Lab Sample ID(PIBLK): PIBLK39 Time Analyzed: 18:13

EPA Sample No.(PEM): AR166041 Date Analyzed: 10/12/09

Lab Sample ID(PEM): AR166041 Time Analyzed: 18:46

Column(1): RTX_CLP.32 ID: .32 (mm) Column(2): RTX_CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.19	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.19	0.20	-5.0
AROCLOR-1016-3	3.68	3.61	3.75	0.21	0.20	5.0
AROCLOR-1016-4	3.90	3.83	3.97	0.21	0.20	5.0
AROCLOR-1016-5	4.31	4.24	4.38	0.20	0.20	0
mean:				0.202	0.2	1
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.25	0.20	25
AROCLOR-1016-2	3.69	3.63	3.77	0.26	0.20	30
AROCLOR-1016-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1016-4	3.98	3.92	4.06	0.24	0.20	20
AROCLOR-1016-5	4.43	4.37	4.51	0.23	0.20	15
mean:				0.244	0.2	22
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.97	6.89	7.03	0.16	0.20	-20
AROCLOR-1260-2	7.23	7.16	7.30	0.22	0.20	10
AROCLOR-1260-3	7.54	7.47	7.61	0.20	0.20	0
AROCLOR-1260-4	7.81	7.73	7.87	0.20	0.20	0
AROCLOR-1260-5	8.33	8.26	8.40	0.20	0.20	0
mean:				0.196	0.2	-2
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.22	0.20	10
AROCLOR-1260-2	7.42	7.35	7.49	0.23	0.20	15
AROCLOR-1260-3	7.66	7.59	7.73	0.23	0.20	15
AROCLOR-1260-4	7.98	7.91	8.05	0.21	0.20	5.0
AROCLOR-1260-5	8.46	8.38	8.52	0.29	0.20	45
mean:				0.236	0.2	18

AECOM050 P191

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	23.12	115.6	21.21	106.1
Beryllium				10.0	9.89	98.9	10.03	100.3
Cadmium				10.0	10.14	101.4	10.22	102.2
Chromium				20.0	19.44	97.2	19.58	97.9
Cobalt				100.0	98.94	98.9	101.51	101.5
Copper				50.0	49.30	98.6	49.33	98.7
Lead				6.0	4.57	76.1	4.13	68.8
Manganese				30.0	29.00	96.7	29.05	96.8
Nickel				80.0	79.49	99.4	80.17	100.2
Selenium				10.0	12.61	126.1	13.10	131.0
Silver				20.0	19.93	99.6	19.45	97.3
Thallium				20.0	22.98	114.9	21.47	107.3
Vanadium				100.0	97.34	97.3	100.11	100.1
Zinc				40.0	41.12	102.8	42.19	105.5

AECOM050 M40

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0			20.94	104.7
Beryllium				10.0			9.88	98.8
Cadmium				10.0			9.72	97.2
Chromium				20.0			18.91	94.5
Cobalt				100.0			99.82	99.8
Copper				50.0			52.65	105.3
Lead				6.0			3.81	63.5
Manganese				30.0			28.57	95.2
Nickel				80.0			75.98	95.0
Selenium				10.0			11.48	114.8
Silver				20.0			19.69	98.5
Thallium				20.0			20.26	101.3
Vanadium				100.0			99.94	99.9
Zinc				40.0			41.80	104.5

AECOM050 M41

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
TP-3 (7.5)S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	36.1308		1.9868	B	63.29	53.9	N	P
Arsenic	75-125	10.6288		5.9898		5.06	91.6		P
Barium	75-125	360.0975		95.4380		253.16	104.5		P
Beryllium	75-125	6.7038		0.7266		6.33	94.4		P
Cadmium	75-125	6.0468		0.0428	U	6.33	95.5		P
Chromium	75-125	40.6962		19.7228		25.32	82.8		P
Cobalt	75-125	68.2886		8.0076		63.29	95.2		P
Copper	75-125	123.2899		91.4886		31.65	100.5		P
Iron		16420.6278		34773.1114		126.58	-14498.5		P
Lead		351.1810		217.6178		2.53	5275.7		P
Manganese		284.1570		324.1316		63.29	-63.2		P
Mercury	75-125	0.7489		0.4156		0.21	158.0	N	CV
Nickel	75-125	73.4620		15.8658		63.29	91.0		P
Selenium	75-125	2.2094		0.9387		1.27	100.4		P
Silver	75-125	4.1392		0.2370	B	6.33	61.7	N	P
Thallium	75-125	7.7956		4.5466		6.33	51.3	N	P
Vanadium	75-125	84.5127		29.1924		63.29	87.4		P
Zinc		360.9506		349.5646		63.29	18.0		P

Comments:

AECOM050 M55

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
TP-3 (7.5)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.0 % Solids for Duplicate: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6664.2620		6707.5684		0.6		P
Antimony	7.5949	1.9868	B	2.2100	B	10.6		P
Arsenic	1.2658	5.9898		5.0204		17.6		P
Barium	25.3165	95.4380		99.4608		4.1		P
Beryllium	0.6329	0.7266		0.3899	B	60.3		P
Cadmium		0.0428	U	0.0428	U			P
Calcium		5790.0620		5219.9456		10.4		P
Chromium		19.7228		13.9899		34.0	*	P
Cobalt	6.3291	8.0076		8.2696		3.2		P
Copper		91.4886		89.0190		2.7		P
Iron		34773.1114		16897.3367		69.2	*	P
Lead		217.6178		220.1713		1.2		P
Magnesium	632.9114	2438.7873		2505.4987		2.7		P
Manganese		324.1316		295.3443		9.3		P
Mercury		0.4156		0.2996		32.4	*	CV
Nickel	5.0633	15.8658		11.5241		31.7		P
Potassium	632.9114	754.0975		711.4861		5.8		P
Selenium	0.6329	0.9387		0.7189		26.5		P
Silver	1.2658	0.2370	B	0.1489	B	45.7		P
Sodium	632.9114	110.1101	B	104.5051	B	5.2		P
Thallium	1.2658	4.5466		2.0810		74.4	*	P
Vanadium	6.3291	29.1924		22.1873		27.3	*	P
Zinc		349.5646		299.3937		15.5		P

AECOM050 M57

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

TP-3 (7.5)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM050

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	52647.67		57343.95		8.9		P
Antimony	15.70	B	28.92	B	84.2		P
Arsenic	47.32		61.79		30.6		P
Barium	753.96		818.35	B	8.5		P
Beryllium	5.74		6.10	B	6.3		P
Cadmium	0.34	U	1.69	U			P
Calcium	45741.49		49741.70		8.7		P
Chromium	155.81		170.95		9.7		P
Cobalt	63.26		70.75	B	11.8	E	P
Copper	722.76		769.20		6.4		P
Iron	274707.58		279886.35		1.9		P
Lead	1719.18		1866.81		8.6		P
Magnesium	19266.42		21148.90	B	9.8		P
Manganese	2560.64		2792.55		9.1		P
Nickel	125.34		136.55	B	8.9		P
Potassium	5957.37		5926.70	B	0.5		P
Selenium	7.42		12.41	U	100.0		P
Silver	1.87	B	4.14	U	100.0		P
Sodium	869.87	B	830.55	B	4.5		P
Thallium	35.92		41.08	B	14.4		P
Vanadium	230.62		250.35		8.6		P
Zinc	2761.56		3066.25		11.0	E	P

AECOM050 M62

TP-3(7.0) and DUP-2

Analyte	CRDL (mg/Kg)	5xCRDL (mg/Kg)	Original Result (mg/Kg)	Duplicate Result (mg/Kg)	RPD	Actions
Aluminum	20	100	4470	7140	46	J both
Antimony	6	30	2.1	2.2	5	OK; <35
Arsenic	1	5	7.3	7.1	3	OK; <35
Barium	20	100	92.7	127	31	OK; <35
Beryllium	0.5	2.5	0.38	0.51	29	OK; <35
Cadmium	0.5	2.5	0.14	0.040 U	Not calculable	OK; 1 ND and 1 <CRDL
Calcium	500	2500	5790	3820	41	J both
Chromium	1	5	12.6	20.5	48	J both
Cobalt	5	25	5.8	7.7	28	OK; <35
Copper	2.5	12.5	141	109	26	OK; <35
Iron	10	50	17100	26300	42	J both
Lead	0.3	1.5	199	280	34	OK; <35
Magnesium	500	2500	3400	2370	36	J both
Manganese	1.5	7.5	323	339	5	OK; <35
Mercury	0.2	1	0.26	0.34	27	OK; <35
Nickel	4	20	11.7	17.5	40	OK; difference ± 2xCRDL
Potassium	500	2500	671	817	20	OK; <35
Selenium	0.5	2.5	0.86	0.94	9	OK; <35
Silver	1	5	0.27	0.26	4	OK; <35
Sodium	500	2500	148	111	29	OK; <35
Thallium	1	5	2	3.1	43	OK; difference ± 2xCRDL
Vanadium	5	25	22	29.1	28	OK; <35
Zinc	2	10	338	298	13	OK; <35

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM051 **Analytical Requirements**

Customer Sample Code	Laboratory Sample Code	ME	MSSEMI	MSVOA	WC
GW-1	0910683-001	X	X	X	X
TB-092809	0910683-002			X	
SB-092809	0910683-003			X	

CLP, Non-CLP (Please indicate year of protocol) ASP B 2000

CG 10/22/09

AECOM051 A3

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23732

EXTERNAL CHAIN OF CUSTODY

CLIENT: | **H2M SDG NO:** AECOM 050/051

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client
VIPUL MEHRA
JOSH MILLARD

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

Sample Container Description →

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: PCB	ORGANIC: TCL VOC	ORGANIC: TCL SVOC	ORGANIC: TCL PEST HERB	ORGANIC: TOTAL CN	INORG.: TAL Metal	INORG.: HEXAVALENT CR	LAB I.D. NO.	REMARKS:
9/27/09	11:41	S	SB-9 (4'-5')	3	X	X	X					X	X	0910682-001	AECOM 050
9/27/09	13:25	S	SB-14 (1'-2')	3	X	X	X					X	X	-008	
9/27/09	13:48	S	SB-10 (3'-4')	3	X	X	X					X	X	-006	
9/27/09	15:30	S	SB-9 (40'-42')	3	X	X						X	X	-004	
9/27/09	16:50	W	GW-1	6	X	X					X	X		0910683-001	AECOM 051
9/28/09	14:00	S	SB-13 (18'-24')		X	X						X	X	0910682-007	AECOM 050
9/28/09	14:15	S	SB-10 (48'-50')		X	X						X	X	-006	
9/28/09	15:30	S	SB-9 (36'-38')		X	X						X	X	-003	
9/28/09	15:00	S	SB-9 (20'-21.5')		X	X						X	X	-002	
9/27/09	14:30	S	SB-14B (11'-13')		X	X						X	X	-009	

9/29/09

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/28/09	15:12		9/28	1512
	9/28	1745		9/28/09	16:45
	Date	Time		Date	Time
	Date	Time		Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or (chilled), Temp 5.7°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

ABOVE COPY 2 ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

H2M LABS, INC.

23735

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: H2M SDG NO: AECOM049/051

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: VM | JM

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	ORGANIC: TCL VOC	ORGANIC: TCL SVOC	ORGANIC: TCL PEST/HERB	INORG.: TAL Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
9/24/09	9:45	S	SS-2	3				X	X	X	X	X	0910681-004	AECOM 049
9/24/09		S	DUP-1	3				X	X	X	X	X	-001	
9/28/09	13:13	S	SB-3 (4'-5')	3				X	X	X	X	X	-002	
9/25/09	16:00	S	SB-17 (1'-2')	3				X	X	X	X	X	-003	
9/28/09		S	MS/MSD-1 (SB-3 4'-5')	3				X	X	X	X	X	0910683-002	
9/28/09		W	TB	2	X								0910683-002	AECOM 051

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/28/09	15:24		9/28/09	15:12
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/28/09	17:50		9/29/09	16:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
		DIC. 9/28/09			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ____
2. Ambient or chilled, Temp 5.2°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM051

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 9/28/2009 4:45:00 PM

Work Order Number 0910683

Received by dmc

Checklist completed by [signature] (Signature) 9/29/09 (Date)

Reviewed by JSA (Initials) 10/5/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 9/28/09 Person contacted VIPUL MEHRA

Contacted by: JENARACRI Regarding _____

Comments: SAMPLE GW-1; SMALL HEADSPACE BUBBLES (3mm-4mm DIA.) IN BOTH VIALS. COLLECTION DATE FOR THIS SAMPLE WAS 9/27/09 ON COC AND 9/26/09 ON BOTTLE LABELS. FOR TB; SMALL HEADSPACE BUBBLE (4mm DIA.) IN ONE VIAL.

Corrective Action _____

AECOM051 A14

AECOM051

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 9/28/2009 4:45:00 PM

Work Order Number 0910683 | Received by dmc

Checklist completed by [signature] 9/29/09 (Signature / Date) | Reviewed by JSA 10/5/09 (Initials / Date)

Matrix: | Carrier name | Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted YES Date contacted: 9/28/09 Person contacted VIPUL MEHRA

Contacted by: JENNIFER Regarding _____

Comments: SAMPLE GW-1; SMALL HEADSPACE BUBBLES (3mm-4mm DIA.) IN BOTH VIALS. COLLECTION DATE FOR THIS SAMPLE WAS 9/27/09 ON COC AND 9/26/09 ON BOTTLE LABELS. FOR TB; SMALL HEADSPACE BUBBLE (4mm DIA.) IN ONE VIAL.

Corrective Action _____

AECOM051 A14

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

	EPA SAMPLE NO.	SMC1 DCA#	SMC2 TOL#	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100209	107	103	90		0
02	LFB100209	100	98	99		0
03	GW-1	112	88	117 *		1
04	VBLK100809	108	101	90		0
05	TB-092809	109	102	90		0
06	SB-092809	110	100	90		0
07	GW-1DL	110	99	100		0

			QC Limit
SMC1	DCA	= 1,2-Dichloroethane-d4	(76-114)
SMC2	TOL	= Toluene-d8	(88-110)
SMC3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

AECOM051 V3

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Instrument ID: HP5973I Calibration Date: 10/02/09 Time: 14:17

Lab File ID: 09\E7623.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	3.305	3.005		-9.1	
Dichlorodifluoromethane	4.588	3.777		-17.7	
Bromomethane	2.413	1.951	0.100	-19.2	25.0
Vinyl chloride	3.677	3.174	0.100	-13.7	25.0
Chloroethane	1.931	1.849		-4.2	
Methylene chloride	2.203	2.114		-4.0	
Acetone	1.044	1.157		10.8	
Trichlorofluoromethane	5.206	4.562		-12.4	
1,1-Dichloroethene	1.560	1.391	0.100	-10.8	25.0
Carbon disulfide	4.953	4.089		-17.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.646	1.718		4.4	
1,1-Dichloroethane	4.191	4.139	0.200	-1.2	25.0
Chloroform	4.738	4.734	0.200	-0.1	25.0
1,2-Dichloroethane	4.759	4.974	0.100	4.5	25.0
Methyl Acetate	2.059	2.382		15.7	
2-Butanone	1.264	1.464		15.9	
1,1,1-Trichloroethane	0.654	0.623	0.100	-4.8	25.0
trans-1,2-Dichloroethene	1.846	1.602		-13.2	
Carbon tetrachloride	0.537	0.546	0.100	1.7	25.0
Methyl tert-butyl ether	7.737	8.460		9.3	
Bromodichloromethane	0.557	0.597	0.200	7.2	25.0
1,2-Dichloropropane	0.314	0.337		7.2	
cis-1,2-Dichloroethene	2.161	2.074		-4.0	
cis-1,3-Dichloropropene	0.544	0.588	0.200	8.1	25.0
Trichloroethene	0.413	0.396	0.300	-4.1	25.0
Dibromochloromethane	0.422	0.475	0.100	12.6	25.0
1,1,2-Trichloroethane	0.299	0.336	0.100	12.4	25.0
Benzene	1.243	1.252	0.500	0.7	25.0
Cyclohexane	0.400	0.445		11.1	
trans-1,3-Dichloropropene	0.579	0.645	0.100	11.5	25.0
Bromoform	0.311	0.359	0.100	15.6	25.0
4-Methyl-2-pentanone	0.479	0.611		27.6	
2-Hexanone	0.312	0.399		27.8	
Tetrachloroethene	0.319	0.312	0.200	-2.1	25.0
1,1,2,2-Tetrachloroethane	0.323	0.419	0.300	29.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM051 V74

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Instrument ID: HP5973I Calibration Date: 10/02/09 Time: 14:17

Lab File ID: 09\E7623.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.325	0.436		34.3	
Toluene	0.886	0.958	0.400	8.2	25.0
Chlorobenzene	1.052	1.127	0.500	7.1	25.0
Ethylbenzene	0.547	0.602	0.100	10.0	25.0
Styrene	1.061	1.214	0.300	14.4	25.0
m,p-Xylene	0.710	0.775	0.300	9.1	25.0
o-Xylene	0.713	0.793		11.2	
1,2-Dibromoethane	0.378	0.426		12.8	
Isopropylbenzene	1.821	2.097		15.2	
1,3-Dichlorobenzene	0.812	0.864		8.4	
1,4-Dichlorobenzene	0.835	0.918		10.0	
1,2-Dichlorobenzene	0.794	0.884		11.3	
1,2-Dibromo-3-chloropropane	0.112	0.141		25.8	
1,2,4-Trichlorobenzene	0.408	0.486		19.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM051 V75

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Instrument ID: HP5973I Calibration Date: 10/08/09 Time: 6:33

Lab File ID: 09\E7684.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	3.305	3.153		-4.6	
Dichlorodifluoromethane	4.588	5.101		11.2	
Bromomethane	2.413	2.064	0.100	-14.5	25.0
Vinyl chloride	3.677	3.682	0.100	0.1	25.0
Chloroethane	1.931	1.899		-1.6	
Methylene chloride	2.203	2.252		2.2	
Acetone	1.044	1.082		3.6	
Trichlorofluoromethane	5.208	5.242		0.7	
1,1-Dichloroethene	1.560	1.777	0.100	13.9	25.0
Carbon disulfide	4.953	5.482		10.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.646	2.176		32.2	
1,1-Dichloroethane	4.191	4.657	0.200	11.1	25.0
Chloroform	4.738	5.129	0.200	8.3	25.0
1,2-Dichloroethane	4.759	5.126	0.100	7.7	25.0
Methyl Acetate	2.059	2.175		5.6	
2-Butanone	1.264	1.289		2.0	
1,1,1-Trichloroethane	0.654	0.711	0.100	8.7	25.0
trans-1,2-Dichloroethene	1.846	1.891		2.4	
Carbon tetrachloride	0.537	0.647	0.100	20.5	25.0
Methyl tert-butyl ether	7.737	8.291		7.2	
Bromodichloromethane	0.557	0.600	0.200	7.7	25.0
1,2-Dichloropropane	0.314	0.345		9.8	
cis-1,2-Dichloroethene	2.161	2.238		3.6	
cis-1,3-Dichloropropene	0.544	0.559	0.200	2.7	25.0
Trichloroethene	0.413	0.402	0.300	-2.6	25.0
Dibromochloromethane	0.422	0.449	0.100	6.4	25.0
1,1,2-Trichloroethane	0.299	0.321	0.100	7.4	25.0
Benzene	1.243	1.354	0.500	8.9	25.0
Cyclohexane	0.400	0.573		43.1	
trans-1,3-Dichloropropene	0.579	0.606	0.100	4.7	25.0
Bromoform	0.311	0.321	0.100	3.4	25.0
4-Methyl-2-pentanone	0.479	0.504		5.3	
2-Hexanone	0.312	0.355		13.7	
Tetrachloroethene	0.319	0.338	0.200	6.0	25.0
1,1,2,2-Tetrachloroethane	0.323	0.418	0.300	29.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM051 V80

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Instrument ID: HP5973I Calibration Date: 10/08/09 Time: 6:33

Lab File ID: 09\E7684.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 13:32 18:23

Heated Purge: (Y/N) N

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.325	0.531		63.6	
Toluene	0.886	1.028	0.400	16.1	25.0
Chlorobenzene	1.052	1.148	0.500	9.1	25.0
Ethylbenzene	0.547	0.634	0.100	15.9	25.0
Styrene	1.061	1.180	0.300	11.2	25.0
m,p-Xylene	0.710	0.810	0.300	14.0	25.0
o-Xylene	0.713	0.830		16.4	
1,2-Dibromoethane	0.378	0.398		5.3	
Isopropylbenzene	1.821	2.237		22.9	
1,3-Dichlorobenzene	0.812	0.823		1.3	
1,4-Dichlorobenzene	0.835	0.886		6.2	
1,2-Dichlorobenzene	0.794	0.842		6.0	
1,2-Dibromo-3-chloropropane	0.112	0.126		12.4	
1,2,4-Trichlorobenzene	0.408	0.404		-0.9	

All other compounds must meet a minimum RRF of 0.010.

AECOM051 V81

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK100209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: VBLK100209

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7624.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/02/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	1	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM051 V90

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100809

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM051

Matrix: (soil/water) WATER Lab Sample ID: VBLK100809

Sample wt/vol: 5 (g/mL) ML Lab File ID: 09\E7686.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/08/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	(1	J)

AECOM051 V98

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM051

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-33044	49	68	30	88	68	95	75	51	0
02	LFB-33044	53	79	34	93	82	81	83	76	0
03	GW-1	54	82	38	80	75	74	73	43	0
04	GW-1DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0

				QC LIMITS	
S1	2FP	=	2-Fluorophenol	(21-110)	
S2	NBZ	=	Nitrobenzene-d5	(35-114)	
S3	PD5	=	Phenol-d5	(10-110)	
S4	TBP	=	2,4,6-Tribromophenol	(10-123)	
S5	FBP	=	2-Fluorobiphenyl	(43-116)	
S6	TPH	=	4-Terphenyl-d14	(33-141)	
S7	2CP	=	2-Chlorophenol-d4	(33-110)	(advisory)
S8	DCB	=	1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM051 B3

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM051

Sample ID LFB-33044 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/02/09 14:04 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	35	69	60-140
Benzaldehyde	50	0	44	89	40-140
Phenol	50	0	18	37	25-131
Bis(2-chloroethyl)ether	50	0	43	86	39-111
2-Chlorophenol	50	0	42	85	48-116
2-Methylphenol	50	0	39	78	41-131
2,2'-oxybis(1-chloropropane)	50	0	39	79	28-146
Acetophenone	50	0	43	86	60-140
N-Nitroso-di-n-propylamine	50	0	38	75	40-124
Hexachloroethane	50	0	25	49	41-119
Nitrobenzene	50	0	40	81	48-126
Isophorone	50	0	40	80	33-131
2-Nitrophenol	50	0	43	86	41-121
2,4-Dimethylphenol	50	0	42	84	39-135
Bis(2-chloroethoxy)methane	50	0	42	85	20-148
2,4-Dichlorophenol	50	0	44	88	46-130
Naphthalene	50	0	36	72	47-117
4-Chloroaniline	50	0	40	80	25-133
Hexachlorobutadiene	50	0	24	49	11-136
Caprolactam	50	0	14	28*	40-140
4-Chloro-3-methylphenol	50	0	44	88	45-135
2-Methylnaphthalene	50	0	37	73	60-140
Hexachlorocyclopentadiene	50	0	21	43	13-119
2,4,6-Trichlorophenol	50	0	48	95	53-131
2,4,5-Trichlorophenol	50	0	48	96	48-132
1,1'-Biphenyl	50	0	41	83	40-140
2-Chloronaphthalene	50	0	32	64	47-123
2-Nitroaniline	50	0	45	90	41-131
Dimethylphthalate	50	0	45	91	10-162
2,6-Dinitrotoluene	50	0	47	94	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM051 B4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM051

Sample ID LFB-33044 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/02/09 14:04 10/01/09 15:59

Acenaphthylene	50	0	40	80	61-135
3-Nitroaniline	50	0	43	87	11-167
Acenaphthene	50	0	39	78	36-132
2,4-Dinitrophenol	50	0	65	130*	11-101
4-Nitrophenol	50	0	23	46	22-156
Dibenzofuran	50	0	40	80	24-158
2,4-Dinitrotoluene	50	0	44	88	48-134
Diethylphthalate	50	0	45	91	24-156
Fluorene	50	0	40	80	55-129
4-Chlorophenyl-phenylether	50	0	38	75	50-130
4-Nitroaniline	50	0	44	89	14-138
4,6-Dinitro-2-methylphenol	50	0	59	117*	47-107
N-Nitrosodiphenylamine	50	0	36	72	27-135
4-Bromophenyl-phenylether	50	0	39	77	50-142
Hexachlorobenzene	50	0	40	81	56-154
Atrazine	50	0	52	104	40-140
Pentachlorophenol	50	0	54	107	12-124
Phenanthrene	50	0	44	87	57-135
Anthracene	50	0	44	87	61-135
Carbazole	50	0	44	89	10-135
Di-n-butyl phthalate	50	0	45	91	44-144
Fluoranthene	50	0	46	93	61-135
Pyrene	50	0	45	89	58-136
Butyl benzyl phthalate	50	0	45	90	49-135
3,3'-Dichlorobenzidine	50	0	34	67	20-132
Benzo(a)anthracene	50	0	42	84	58-136
Chrysene	50	0	42	84	38-170
Bis(2-ethylhexyl)phthalate	50	0	46	92	33-193
Di-n-octyl phthalate	50	0	45	90	45-155
Benzo(b)fluoranthene	50	0	43	85	43-147
Benzo(k)fluoranthene	50	0	40	80	53-159
Benzo(a)pyrene	50	0	45	90	47-141
Indeno(1,2,3-cd)pyrene	50	0	46	92	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM051 B5

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM051

Instrument ID: HP5973N Calibration Dates: 10/1/09 10/1/09

Heated Purge: (Y/N) N Calibration Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= N34361.D SSTD010= N34362.D SSTD025= N34360.D SSTD040= N34363.D SSTD080= N34365.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R^2
4-Chloroaniline		0.4277234	0.4605583	0.4700293	0.5275421	0.5599247						0.489	10.9	
Hexachlorobutadiene		0.2166034	0.2248035	0.2227976	0.2429760	0.2572017						0.233	7.2	
Caprolactam		0.0883034	0.1090001	0.1085583	0.1163193	0.1183507						0.108	11.0	
4-Chloro-3-methylphenol	*	0.2587119	0.2931853	0.2914551	0.3199477	0.3335679						0.299	9.7	*
2-Methylnaphthalene	*	0.6547228	0.7108647	0.7043453	0.7758959	0.8280939						0.735	9.2	*
Hexachlorocyclopentadiene		0.2295034	0.3089598	0.356313	0.4105019	0.4550679						0.352	25.0	
2,4,6-Trichlorophenol	*	0.3269268	0.3635579	0.3729700	0.4039728	0.4410933						0.382	11.3	*
2,4,5-Trichlorophenol	*	0	0.3576903	0.3866299	0.4176687	0.4586599						0.405	10.7	*
1,1'-Biphenyl		1.2598685	1.5163471	1.4783243	1.7204512	1.8254495						1.560	14.1	
2-Chloronaphthalene	*	1.2586935	1.3566077	1.3709817	1.4987367	1.5360227						1.404	8.0	*
2-Nitroaniline		0	0.326793	0.3330310	0.3535847	0.3620163						0.344	4.8	
Dimethylphthalate		1.1740831	1.2652492	1.2381945	1.3285785	1.3909167						1.279	6.5	
2,6-Dinitrotoluene	*	0.2682557	0.2902496	0.2965014	0.3266749	0.3603244						0.308	11.6	*
Acenaphthylene	*	1.6426913	1.7714953	1.7680600	1.9527664	2.1396066						1.855	10.4	*
3-Nitroaniline		0	0.3083314	0.3139338	0.3311595	0.3438203						0.324	5.0	
Acenaphthene	*	1.0815387	1.1373202	1.1369382	1.2477750	1.3465227						1.190	8.9	*
2,4-Dinitrophenol		0	0.0986590	0.1403976	0.1721928	0.210223						0.155	30.5	
4-Nitrophenol		0	0.1754073	0.1612066	0.2013523	0.2035402						0.185	11.1	
Dibenzofuran	*	1.4513359	1.5466523	1.5243536	1.6582027	1.7828913						1.593	8.1	*
2,4-Dinitrotoluene	*	0.3378934	0.3630742	0.3708073	0.3988492	0.4271589						0.380	9.1	*
Diethylphthalate		1.1449993	1.256145	1.2248489	1.3135377	1.3706813						1.262	6.8	
1,2,4,5-Tetrachlorobenzene		0.5087928	0.6016143	0.5726364	0.6563449	0.7082197						0.610	12.6	
Fluorene	*	1.1793202	1.2638705	1.2687461	1.4105377	1.519311						1.328	10.2	*

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM051

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Antimony				120.0	118.87	99.1	118.65	98.9
Arsenic				20.0	21.04	105.2	18.38	91.9
Beryllium				10.0	10.06	100.6	9.95	99.5
Cadmium				10.0	10.07	100.7	9.80	98.0
Chromium				20.0	19.69	98.5	19.59	98.0
Cobalt				100.0	100.13	100.1	101.35	101.4
Copper				50.0	50.02	100.0	50.94	101.9
Lead				6.0	5.23	87.1	5.76	95.9
Manganese				30.0	29.52	98.4	29.55	98.5
Nickel				80.0	80.76	101.0	80.17	100.2
Selenium				10.0	10.91	109.1	7.78	77.8
Silver				20.0	19.85	99.3	19.19	95.9
Thallium				20.0	20.47	102.4	18.76	93.8
Vanadium				100.0	97.68	97.7	99.83	99.8
Zinc				40.0	43.56	108.9	43.87	109.7

AECOM051 M16

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
GW-1S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM051

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		95053.5200		89839.4300		2000.00	260.7		P
Antimony	75-125	288.5840		11.3122	B	500.00	65.5	N	P
Arsenic	75-125	80.1905		42.0513		40.00	95.3		P
Barium	75-125	2726.3100		815.7100		2000.00	95.5		P
Beryllium	75-125	52.0200		4.6200	B	50.00	94.8		P
Cadmium	75-125	46.4800		1.4900	B	50.00	90.0		P
Chromium	75-125	439.4800		254.3800		200.00	92.6		P
Cobalt	75-125	543.8300		77.2900		500.00	93.3		P
Copper	75-125	533.0700		290.9100		250.00	96.9		P
Iron		180192.1000		184382.6200		1000.00	-419.1		P
Lead		749.4897		762.2177		20.00	-63.6		P
Manganese		4506.6900		4186.7100		500.00	64.0		P
Mercury	75-125	3.2000		1.6400		1.00	156.0	N	CV
Nickel	75-125	612.0900		155.4500		500.00	91.3		P
Selenium	75-125	22.1227		14.0295		10.00	80.9		P
Silver	75-125	38.0584		1.6241	B	50.00	72.9	N	P
Thallium	75-125	52.9306		7.0752	B	50.00	91.7		P
Vanadium	75-125	752.3300		281.4700		500.00	94.2		P
Zinc	75-125	1271.2800		814.6000		500.00	91.3		P

Comments:

AECOM051 M25

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

GW-1

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM051

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	89839.43		95211.65		6.0		P
Antimony	11.31	B	10.99	B	2.8		P
Arsenic	42.05		43.95	B	4.5		P
Barium	815.71		887.15	B	8.8		P
Beryllium	4.62	B	5.00	B	8.2		P
Cadmium	1.49	B	1.70	U	100.0		P
Calcium	307880.67		336425.10		9.3		P
Chromium	254.38		281.70		10.7	E	P
Cobalt	77.29		86.30	B	11.7	E	P
Copper	290.91		305.20		4.9		P
Iron	184382.62		197932.85		7.3		P
Lead	762.22		850.24		11.5	E	P
Magnesium	124721.26		138005.35		10.7	E	P
Manganese	4186.71		4674.25		11.6	E	P
Nickel	155.45		178.15	B	14.6	E	P
Potassium	65023.32		58750.50		9.6		P
Selenium	14.03		12.40	U	100.0		P
Silver	1.62	B	4.10	U	100.0		P
Sodium	326976.34		345541.60		5.7		P
Thallium	7.08	B	16.00	U	100.0		P
Vanadium	281.47		310.20		10.2		P
Zinc	814.60		906.40		11.3	E	P

AECOM051 M32

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM056

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
SB-13 (0'-1')	0910783-001	X	X	X	X	X
SB-13 (12'-14')	0910783-002		X	X	X	X
SB-12 (10'-12.2')	0910813-002		X	X	X	X
SB-15 (12'-14')	0910813-003		X	X	X	X
SB-15 (38'-40')	0910813-004		X	X	X	X
SB-15 (42'-44')	0910813-005		X	X	X	X
SB-18 (12'-14')	0910813-006		X	X	X	X
TB-100209	0910813-007				X	
SB-18 (38'-40')	0910860-001		X	X	X	X
SB-18 (42'-44')	0910860-002		X	X	X	X
TB-100509	0910860-003				X	
SB-11 (16'-18')	0910975-001		X	X	X	X
SB-11 (32'-32.5')	0910975-002		X	X	X	X
SB-11 (54'-56')	0910975-003		X	X	X	X
TP-2 (8.5)	0910975-004		X	X	X	X
TB-100709	0910975-005				X	
TP-1 (9')	0911044-001		X	X	X	X
DUP-3	0911044-002		X	X	X	X
SB-2B (5)	0911196-001	X	X	X	X	X
SB-6 (6)	0911196-002	X	X	X	X	X
RB2-101309	0911196-003	X	X	X	X	X
TB 101209	0911196-004				X	

CLP, Non-CLP (Please indicate year of protocol) ASP B 2000

CG 11/5/09

AECOM056 S3

H2M LABS, INC.

23619

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: | **H2M SDG NO:** AECOM049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: PETE COX

Phone Number:

PIS/Quote #:

Sample Container Description →

Total No. of Containers ↓

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	ORGANICS: VOA	BNA	Pest/PCB	TCL VOC	TCL SVOC	TCL Pest/PCB	INORG.: TAL Metal	CN	LAB I.D. NO.	REMARKS:
9/25/09	16:25	S	SB-10 (16'-18')	X	X					X	X	0910782-002	AECOM050
9/28/09	16:00	S	SB-10 (40'-41.5')	X	X					X	X	↓ -003	↓
9/28/09	16:10	S	SB-13 (12'-14')	X	X					X	X	0910783-002	AECOM056
9/28/09	16:30	S	SB-5 (52'-54')			X	X	X	X	X	X	0910781-003	AECOM049
9/27/09	10:03	S	SB-13 (0'-1')	X	X	X				X	X	0910783-001	AECOM056
9/27/09	15:46	S	SB-8 (2'-3')			X	X	X	X	X	X	0910781-004	AECOM049
9/28/09	16:20	S	SB-5 (16'-18')			X	X	X	X	X	X	-001	↓
9/28/09	16:40	S	SB-5 (28'-30')			X	X	X	X	X	X	↓ -002	↓
9/25/09	14:30	S	SB-12 (4'-5')	X	X	X				X	X	0910782-004	AECOM050
9/27/09	9:45	S	SB-4 (1'-2')	X	X	X				X	X	↓ -001	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/30/09	1508	S. Wad	9-30-09	15.12
S. Wad	9-30-09	16.53	[signature]	9/30/09	16:53

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp _____
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S11

AECOM056

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 9/30/2009 4:53:00 PM

Work Order Number 0910783

Received by dmc

Checklist completed by _____ 10/1/09
Signature Date

Reviewed by JBA 10/8/09
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: No 8oz JAR RECEIVED FOR SAMPLE SB-13(12'-14').

Corrective Action _____

AECOM056 S12

H2M LABS, INC.

23737

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: [signature] AECOM

DELIVERABLES: AS per PO

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JPFEIFFER

Phone Number: (212)978.8549

PIS/Quote #

Sample Container Description → ~~TCL~~ VOC, SVOC, TAL METALS, Free CYANIDE

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOC	ORGANIC: SVOC	ORGANIC: Metals	ORGANIC: Free CN				INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
9-30-09	1200	SOIL	SB-15 (12-14)	3	X	X	X	X						0910813-003	
9/30/09	1200	SOIL	SB-15 (38-40)	3	X	X	X	X						-004	
9/30/09	1200	SOIL	SB-15 (42-44)	3	X	X	X	X						-005	
9/30/09	1300	SOIL	SB-2 (8"-1')	3	X	X	X	X						-001	on hold
10/01/09	16:30	SOIL	SB-12 (10-12.2)	3	X	X	X	X						-002	
10/1/09	17:00	SOIL	SB-18 (12-14)	2	X	X	X	X						-006	
10/2/05			TRIP BLANK	2	X									-007	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10/2/09	1257 ~~1245~~	S. Watt	10-2-09	12.57
S. Watt	10-2-09	14.32	[signature]	10/2/09	14:32

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp_____
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S20

H2M LABS, INC.

AECOM056

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/2/2009 2:32:00 PM

Work Order Number 0910813

Received by dmc

Checklist completed by _____ 10/7/09
Signature Date

Reviewed by BA 10/8/09
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM056 S21

H2M LABS, INC.

23739

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: [signature] /AECOM

DELIVERABLES: AS PER PO

TURNAROUND TIME: STANDARD.

NOTES:

Project Contact: Jennifer Pfeiffer

Phone Number: 212-798-8549

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description →	VOC	SVOC	TAL metals	free cyanide					ORGANIC					INORG.		LAB I.D. NO.	REMARKS:
				↓										VOA	BNA	Pest-PCB			Metal	CN		
10/2/09	1000	SOIL	SB18 (38-40)	3		X	X	X	X												0910860-001	
10/2/09	1015	SOIL	SB18 (42-44)	3		X	X	X	X												-002	
10/2/09	—	water	TRIP BLANK	2		X															-003	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10/5/09	15:01	[signature]	10.5.09	15.01
[signature]	10-5-09	16.55	[signature]	10/5/09	16:55

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 1.9°C ON ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S29

H2M LABS, INC.

AECOM056

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/5/2009 4:55:00 PM

Work Order Number 0910860

Received by dmc

Checklist completed by [signature] 10/5/09 (Signature / Date)

Reviewed by SA 10/9/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: SMALL HEADSPACE BUBBLES (6-8mm DIA.) IN BOTH TB VIALS.

Corrective Action _____

AECOM056 S30

H2M LABS, INC.

23140

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM049/050/056

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN

Phone Number: 914-227-3779

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	ORGANIC	ORGANIC	ORGANIC	ORGANIC	INORG. TAL Metal	INORG. CN/F	LAB I.D. NO.	REMARKS:
10/6/09	16:40	S	SB-11 (54'-56')	3	X	X						X	X	0910975-003	AECOM 056
10/6/09	16:45	S	SB-11 (32'-32.5')	2	X	X						X	X	-002	
10/6/09	17:00	S	SB-11 (16'-18')	3	X	X						X	X	-001	
10/5/09	16:05	S	SB-7 (6'-8')	2			X	X	X	X		X	X	0910973-001	AECOM 049
10/6/09	13:45	S	TP-2 (8.5')	3	X	X						X	X	0910975-004	AECOM056
10/7/09	12:50	S	TP-3 (7.5) MS/MSD 2	3	X	X						X	X	0910974-003	AECOM 050
10/7/09	12:45	S	TP-3 (7.0)	3	X	X						X	X	-002	
10/7/09	12:50	S	TP-3 (7.5)	3	X	X						X	X	-003	
10/7/09		S	DUP-2	3	X	X						X	X	-001	
10/2/09			TB	2	X									0910975-005	AECOM056

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/7/09	15:55	S. Wall	10-7-09	15.53
S. Wall	10-7-09	17.38	M. Wall	10.7.09	17:38

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or Chilled, Temp 4.3°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S38

AECOM 056

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/7/2009 5:38:00 PM

Work Order Number 0910975 | Received by MCW

Checklist completed by M. Wat (Signature) 10.8.09 (Date) | Reviewed by PA (Initials) 10/12/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Trip Blank vials had head space bubbles ranging in diameter from 1cm to 1.2cm

Corrective Action _____

AECOM056 S39

H2M LABS, INC.

23617

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: AECOM056/057

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN. P.

Phone Number:

PIS/Quote #

Sample Container Description → VOC, SVOC

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: Pest/PCB	INORG.: TAL Metal	INORG.: FREE CN	LAB I.D. NO.	REMARKS:
10/8/09	12:50	S	TP-1 (9')	3	X	X		X	X	0911044-001	AECOM 056
10/8/09	~~13:05~~ 12:50	S	TP-1 (9') MS/MSD	3	X	X		X	X	↓ -001	↓
10/8/09	13:20	S	TP-1 (12')	3	X	X		X	X	0911045-003	AECOM 057
10/8/09		S	DUP-3	3	X	X		X	X	0911044-002	AECOM 056
10/7/09	16:00	S	SB-4 (36'-38')	3	X	X		X	X	0911045-001	AECOM 057
10/8/09	10:00	S	SB-4 (44'-46')	3	X	X		X	X	↓ -002	↓
9/28/09		W	TB	2	X					↓ -004	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipin	10/9/09	11:30	S. Watt	10-9-09	11.30
S. Watt	10-9-09	15.15	M. Watt	10-9-09	15:15

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ___ Airbill# ___
2. Ambient or chilled, Temp 1.9°C on ice
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S47

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23617

EXTERNAL CHAIN OF CUSTODY

CLIENT: | **H2M SDG NO:** AECOM056/057

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN. P.

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. TAL Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/8/09	12:50	S	TP-2 (9')	3	X	X		X	X	0911044-001	AECOM 056
10/8/09	~~12:50~~ 13:05	S MS/MSD	TP-1 (9') MS/MSD	3	X	X		X	X	↓ -001	↓
10/8/09	13:20	S	TP-1 (12')	3	X	X		X	X	0911045-003	AECOM 057
10/8/09		S	DUP-3	3	X	X		X	X	0911044-002	AECOM 056
10/7/09	16:00	S	SB-4 (36'-38')	3	X	X		X	X	0911045-001	AECOM 057
10/8/09	10:00	S	SB-4 (44'-46')	3	X	X		X	X	↓ -002	↓
9/8/09		W	TB	2	X					↓ -004	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
VIPIN	10/9/09	11:30	S. Wat	10-9-09	11.30
S. Wat	10-9-09	15.15	M. Wat	10.9.09	15:15

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ___ Airbill# ___
2. Ambient or ~~Chilled~~, Temp 1.9°C onice
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

AECOM056 S47

AECOM 056

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/9/2009 3:15:00 PM

Work Order Number 0911044 | Received by MCW

Checklist completed by M. Watt (Signature) 10-9-09 (Date) | Reviewed by JA (Initials) 10/12/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: MS/MSD had 2 times of collection.

Corrective Action Time of the parent sample was used.

AECOM056 S48

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23741

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM (Stat Req)

H2M SDG NO: AECOM056

PROJECT NAME/NUMBER: Equity

SAMPLERS: (signature)/Client: J. Millard, M. Stepanova

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact: Pete Cox

Phone Number: 978 589-3000

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	VOCs	SVOCs	PCB (Aroclors)	TAL Metals	Free Cn	TCL Pesticides & Herbicides	TCL VOCs	TCL SVOCs	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10-13-09	1430	W	RB2-101309	6	X	X	X	X	X									091196-003	
10-13-09	1515	S	SB-2B (5)	3	X	X	X	X	X							JSR 10/20/09 CU		-001	
			TB-10-12-09	1	X													-004	
10-14-09	1445	S	SB-6 (6)	3	X	X	X	X	X									-002	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Joshua Millard	10-14-09	1530	S. Wood	10.14.09	1530
S. Wood	10-14-09	17.07		10/14/09	17:07

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 5.6°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM056 S36

AECOM056

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/14/2009 5:07:00 PM

Work Order Number 0911196

Received by dmc

Checklist completed by _____ 10/15/09 (Signature / Date)

Reviewed by JSA (Initials) 10/16/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM056 S57

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK100609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100609

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3491.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/06/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	15	
67-64-1	Acetone	5	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V420

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK100909

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: VBLK100909

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3534.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/09/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	19	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V429

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101209

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101209

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3558.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/12/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V438

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101409

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3603.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V447

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) WATER Lab Sample ID: VBLK101609

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A66914.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/16/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	2	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V457

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101909

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101909

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3627.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/19/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	5	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM056 V462

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100609	100	100	99		0
02	LFB100609	97	100	99		0
03	SB-13 (0'-1')	92	97	99		0
04	SB-13 (12'-14')	68 D	104	111		0 1
05	VBLK100909	101	97	101		0
06	SB-18 (38'-40')	98	98	99		0
07	SB-18 (42'-44')	100	100	98		0
08	SB-15 (42'-44')	101	98	99		0
09	SB-12 (10'-12.2'	97	101	102		0
10	SB-15 (12'-14')	107	102	96		0
11	SB-15 (38'-40')	104	104	96		0
12	SB-18 (12'-14')	103	101	138 *		1
13	VBLK101209	113	94	99		0
14	SB-18 (12'-14')RE	109	94	142 *		1
15	VBLK101409	93	105	101		0
16	MSB101409	94	98	105		0
17	TP-1 (9')	95	97	102		0
18	TP-1 (9')MS	92	99	101		0
19	TP-1 (9')MSD	93	100	101		0
20	DUP-3	91	98	106		0
21	SB-11 (16'-18')	92	98	111		0
22	SB-11 (32'-32.5'	94	111	97		0
23	SB-11 (54'-56')	91	98	105		0
24	TP-2 (8.5)	94	96	127 *		1
25	TP-2 (8.5)RE	92	107	189 *		1
26	VBLK101909	103	97	102		0
27	SB-2B (5)	99	101	100		0
28	SB-6 (6)	100	98	104		0

11/6/09

		QC Limit
SMC 1 DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC 2 TOL	= Toluene-d8	(84-138)
SMC 3 BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK100809	99	100	99		0
02	SB-13 (12'-14')D	99	101	101		0
03	VBLK101209M	101	101	100		0
04	SB-15 (12'-14')D	105	98	96		0
05	SB-15 (38'-40')D	101	99	99		0
06	VBLK101509M	104	102	100		0
07	LFB101409M	102	100	100		0
08	SB-11 (32'-32.5'	107	108	118 *		1

11/6/09

		QC Limit
SMC1 DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC2 TOL	= Toluene-d8	(84-138)
SMC3 BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D
VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	R^2
Chloromethane	3.9530302	3.9524610	4.6319223	4.5359106	3.9705922	3.7443876	4.131	8.8	
Dichlorodifluoromethane	2.5265557	2.7299738	1.9783901	2.1865041	2.6096983	2.4376444	2.411	11.6	
Bromomethane *	0.8880219	0.8976113	1.1740105	1.2996166	1.2489609	1.3522305	1.143	17.7	*
Vinyl chloride *	3.3203291	3.4778529	4.0292199	4.0115006	3.4855196	3.2681062	3.599	9.4	*
Chloroethane	1.8818803	2.156261	2.4674965	2.4918941	2.0931397	1.9769313	2.178	11.6	
Methylene chloride	5.3571015	3.9804136	3.6467208	3.3675581	2.8007598	2.6293847	3.630	27.2	
Acetone	1.551238	0.9931975	0.8966764	0.7762228	0.7105922	0.6987351	0.938	34.3	
Trichlorofluoromethane	3.3925605	3.5273076	4.2479810	4.2795714	3.7478436	3.5347371	3.788	10.2	
1,1-Dichloroethene *	2.3183591	2.3446968	2.7471601	2.7629209	2.3856536	2.2609153	2.470	9.1	*
Carbon disulfide	8.6735679	9.2665859	10.960352	10.908780	9.4190391	8.8316586	9.677	10.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378	2.650	11.7	
1,1-Dichloroethane *	5.1508363	5.2998554	6.2041844	6.3247887	5.5281564	5.2294899	5.623	9.1	*
1,2-Dichloroethene (total)	2.7975202	2.8322061	3.4375555	3.4130525	2.9474413	2.8066864	3.039	10.0	
Chloroform *	4.7927691	4.8256382	5.6070288	5.7064801	5.0334525	4.7711600	5.123	8.3	*
Freon-113	2.3048399	2.4201493	3.0626553	2.9868828	2.6322458	2.4911378	2.650	11.7	
1,2-Dichloroethane *	3.1295145	3.0910122	3.6247559	3.790818	3.316514	3.2260957	3.363	8.4	*
Methyl Acetate	1.9135540	1.6699245	1.9758387	2.0329315	1.7825251	1.8158427	1.865	7.2	
2-Butanone	1.5245857	1.1790922	1.3325346	1.3240959	1.2522235	1.293651	1.318	8.8	
1,1,1-Trichloroethane *	0.5947949	0.5556078	0.7081902	0.7311147	0.6453866	0.6382190	0.646	10.3	*
trans-1,2-Dichloroethene	2.6594306	2.6940068	3.2357118	3.2617893	2.8203352	2.6814749	2.892	9.8	
Carbon tetrachloride *	0.4909602	0.4542288	0.5913246	0.6013965	0.5338987	0.5258556	0.533	10.6	*
Methyl tert-butyl ether	7.1126733	6.4707377	7.7352902	8.2204517	7.1659665	7.1360082	7.307	8.2	
Bromodichloromethane *	0.5844967	0.5157695	0.6632225	0.7008252	0.6161716	0.6125207	0.616	10.4	*

AECOM056 V286

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Dates: 9/24/2009 9/24/2009

Heated Purge: (Y/N) Y Calibration Times: 18:43 21:47

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3395.D VSTD010= G3396.D VSTD020= G3397.D VSTD050= G3399.D VSTD100= G3400.D VSTD200= G3401.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
1,2-Dichloropropane	0.4614063	0.4137269	0.5306183	0.5566970	0.4860794	0.4798372					0.488	10.4	
cis-1,2-Dichloroethene	2.9209317	2.9623910	3.5888135	3.5338322	3.0664581	2.9346319					3.168	9.8	
cis-1,3-Dichloropropene *	0.7205665	0.6376344	0.8196529	0.8671991	0.7463528	0.7530152					0.757	10.5	*
Trichloroethene *	0.3793257	0.3593743	0.473251	0.4959530	0.4242505	0.4288393					0.427	12.3	*
Dibromochloromethane *	0.3773757	0.3239870	0.4257832	0.4444213	0.3976976	0.4034818					0.395	10.6	*
1,1,2-Trichloroethane *	0.3225335	0.2715420	0.3578452	0.3730312	0.3272656	0.3342970					0.331	10.6	*
Benzene *	1.679514	1.5450690	1.9409917	2.0289776	1.744119	1.7252218					1.777	10.0	*
Cyclohexane	0.7466470	0.7071095	1.1209529	0.8983274	0.7940967	0.7997716					0.844	17.7	
trans-1,3-Dichloropropene *	0.6477481	0.5515991	0.7145662	0.7628596	0.6578134	0.6639687					0.666	10.7	*
Bromoform *	0.2280829	0.1813598	0.2370030	0.2588915	0.2347312	0.2423545					0.230	11.4	*
4-Methyl-2-pentanone	0.466452	0.3718865	0.4819145	0.523166	0.4420776	0.4776439					0.461	11.0	
2-Hexanone	0.3426181	0.2627634	0.3444027	0.3808426	0.3267687	0.3518264					0.335	11.8	
Tetrachloroethene *	0.2747585	0.2600019	0.378854	0.3551123	0.3049207	0.3075137					0.314	14.6	*
1,1,2,2-Tetrachloroethane *	0.4682447	0.3762563	0.4836746	0.5137895	0.4559886	0.4636831					0.460	10.0	*
Methylcyclohexane	0.4873040	0.4932930	1.0621426	0.6712095	0.5952410	0.6228470					0.655	32.4	
Toluene *	1.7209256	1.5685084	1.9960653	2.0729512	1.7600727	1.7349439					1.809	10.4	*
Chlorobenzene *	1.0554762	1.0078717	1.2751188	1.3267703	1.1286878	1.1361798					1.155	10.7	*
Ethylbenzene *	0.5415491	0.5166052	0.7495306	0.6923446	0.5933363	0.5976279					0.615	14.5	*
Styrene *	1.1883404	1.0999102	1.4854201	1.5033195	1.3027191	1.3121081					1.315	12.1	*
Xylene (total) *	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	*
m,p-Xylene *	0.6659473	0.6354541	0.9189634	0.8548094	0.7420208	0.7434688					0.760	14.3	*
o-Xylene	0.6591415	0.623331	0.8658105	0.8342668	0.7218002	0.7245478					0.738	12.9	

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	R ²
Chloromethane	2.9866490	2.8574809	2.8758224	2.6556806	2.7426660	2.3733170	2.749	7.9	
Dichlorodifluoromethane	1.8671908	1.8342235	1.8225512	1.6733094	1.7407128	1.5781005	1.753	6.3	
Bromomethane *	1.196528	1.2928470	1.2563962	1.2915723	1.4240252	1.2917412	1.292	5.8	*
Vinyl chloride *	2.2245144	2.3668109	2.1874086	2.1138209	2.2399388	1.9137812	2.174	7.0	*
Chloroethane	1.4051613	1.5955649	1.4784357	1.4654914	1.5158104	1.3046849	1.461	6.8	
Methylene chloride	9.3231093	6.1958285	4.0524488	2.8797338	2.6439891	2.2020925	4.550	60.3	
Acetone	1.3308162	0.8914205	0.7254203	0.6568651	0.6876612	0.6374649	0.822	32.3	
Trichlorofluoromethane	1.8909346	2.3669799	2.2991594	2.2628297	2.3767045	2.0646915	2.210	8.7	
1,1-Dichloroethene *	1.9345296	2.0443175	1.8991228	1.8849598	1.9759343	1.7187033	1.910	5.8	*
Carbon disulfide	6.9366704	7.4068690	7.0022844	6.8984775	7.2073782	6.2595778	6.952	5.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,1-Dichloroethane *	4.4054338	4.6665202	4.3943713	4.3201059	4.5457913	4.0543474	4.398	4.8	*
1,2-Dichloroethene (total)	2.3669768	2.5645663	2.3941886	2.383392	2.4954117	2.2345705	2.407	4.7	
Chloroform *	3.8729516	4.0908323	3.9502924	3.8599101	4.0162158	3.6371456	3.905	4.0	*
Freon-113	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,2-Dichloroethane *	2.5257872	2.8694814	2.7324561	2.6977668	2.8222525	2.631627	2.713	4.6	*
Methyl Acetate	1.8126971	1.9488202	1.8125	1.7032714	1.8156372	1.6971941	1.798	5.1	
2-Butanone	1.5277724	1.3739774	1.2682749	1.1467791	1.2589187	1.1650126	1.290	11.0	
1,1,1-Trichloroethane *	0.550347	0.6198278	0.5877442	0.580825	0.6120924	0.5503538	0.584	5.1	*
trans-1,2-Dichloroethene	2.1665175	2.4420256	2.2755848	2.2518900	2.3721162	2.1147426	2.270	5.4	
Carbon tetrachloride *	0.4062679	0.4541976	0.4444585	0.4441292	0.4773440	0.4336803	0.443	5.3	*
Methyl tert-butyl ether	5.1204702	6.1819688	5.5594846	5.6635543	6.0415715	5.5813843	5.691	6.7	
Bromodichloromethane *	0.4835894	0.5289404	0.5084348	0.5089978	0.5417726	0.505834	0.513	3.9	*

AECOM056 V313

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/06/09 Time: 22:18

Lab File ID: 09\G3490.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	4.131	2.491		-39.7	
Dichlorodifluoromethane	2.411	1.610		-33.2	
Bromomethane	1.143	1.365	0.100	19.4	25.0
Vinyl chloride	3.599	2.308	0.100	-35.9	25.0
Chloroethane	2.178	1.502		-31.0	
Methylene chloride	3.630	3.839		5.7	
Acetone	0.938	0.761		-18.9	
Trichlorofluoromethane	3.788	2.665		-29.7	
1,1-Dichloroethene	2.470	2.186	0.100	-11.5	25.0
Carbon disulfide	9.677	8.786		-9.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.650	2.212		-16.5	
1,1-Dichloroethane	5.623	5.261	0.200	-6.4	25.0
1,2-Dichloroethene (total)	3.039	2.840		-6.6	
Chloroform	5.123	4.911	0.200	-4.1	25.0
1,2-Dichloroethane	3.363	3.551	0.100	5.6	25.0
Methyl Acetate	1.865	2.210		18.5	
2-Butanone	1.318	1.446		9.7	
1,1,1-Trichloroethane	0.646	0.556	0.100	-13.9	25.0
trans-1,2-Dichloroethene	2.892	2.674		-7.5	
Carbon tetrachloride	0.533	0.446	0.100	-16.3	25.0
Methyl tert-butyl ether	7.307	7.614		4.2	
Bromodichloromethane	0.616	0.585	0.200	-5.0	25.0
1,2-Dichloropropane	0.488	0.448		-8.2	
cis-1,2-Dichloroethene	3.168	3.004		-5.2	
cis-1,3-Dichloropropene	0.757	0.731	0.200	-3.5	25.0
Trichloroethene	0.427	0.386	0.300	-9.6	25.0
Dibromochloromethane	0.395	0.403	0.100	1.9	25.0
1,1,2-Trichloroethane	0.331	0.351	0.100	6.0	25.0
Benzene	1.777	1.555	0.500	-12.5	25.0
Cyclohexane	0.844	0.608		-28.0	
trans-1,3-Dichloropropene	0.666	0.687	0.100	3.1	25.0
Bromoform	0.230	0.255	0.100	10.7	25.0
4-Methyl-2-pentanone	0.461	0.458		-0.5	
2-Hexanone	0.335	0.343		2.4	
Tetrachloroethene	0.314	0.255	0.200	-18.7	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V347

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/06/09 Time: 22:18

Lab File ID: 09\G3490.D Init. Calib. Date(s): 09/24/09 09/24/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:43 21:47

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	0.460	0.462	0.300	0.4	25.0
Methylcyclohexane	0.655	0.362		-44.8	
Toluene	1.809	1.491	0.400	-17.6	25.0
Chlorobenzene	1.155	0.995	0.500	-13.9	25.0
Ethylbenzene	0.615	0.497	0.100	-19.2	25.0
Styrene	1.315	1.152	0.300	-12.4	25.0
Xylene (total)	0.738	0.612	0.300	-17.1	25.0
m,p-Xylene	0.760	0.618	0.300	-18.7	25.0
o-Xylene	0.738	0.612		-17.1	
1,2-Dibromoethane	0.374	0.361		-3.4	
Isopropylbenzene	1.991	1.437		-27.8	
1,3-Dichlorobenzene	0.801	0.669		-16.5	
1,4-Dichlorobenzene	0.820	0.698		-14.9	
1,2-Dichlorobenzene	0.725	0.632		-12.8	
1,2-Dibromo-3-chloropropane	0.077	0.083		7.8	
1,2,4-Trichlorobenzene	0.489	0.363		-25.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V348

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/09/09 Time: 17:56

Lab File ID: 09\G3533.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	2.830		3.0	
Dichlorodifluoromethane	1.753	1.961		11.9	
Bromomethane	1.292	1.207	0.100	-6.6	25.0
Vinyl chloride	2.174	2.309	0.100	6.2	25.0
Chloroethane	1.461	1.529		4.7	
Methylene chloride	4.550	2.978		-34.5	
Acetone	0.822	0.695		-15.4	
Trichlorofluoromethane	2.210	2.536		14.7	
1,1-Dichloroethene	1.910	1.791	0.100	-6.2	25.0
Carbon disulfide	6.952	6.527		-6.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.792		2.1	
1,1-Dichloroethane	4.398	4.203	0.200	-4.4	25.0
1,2-Dichloroethene (total)	2.407	2.287		-5.0	
Chloroform	3.905	3.680	0.200	-5.8	25.0
1,2-Dichloroethane	2.713	2.585	0.100	-4.7	25.0
Methyl Acetate	1.798	1.725		-4.1	
2-Butanone	1.290	1.148		-11.0	
1,1,1-Trichloroethane	0.584	0.545	0.100	-6.6	25.0
trans-1,2-Dichloroethene	2.270	2.125		-6.4	
Carbon tetrachloride	0.443	0.412	0.100	-7.1	25.0
Methyl tert-butyl ether	5.691	5.367		-5.7	
Bromodichloromethane	0.513	0.492	0.200	-4.1	25.0
1,2-Dichloropropane	0.428	0.413		-3.4	
cis-1,2-Dichloroethene	2.539	2.446		-3.7	
cis-1,3-Dichloropropene	0.685	0.673	0.200	-1.8	25.0
Trichloroethene	0.398	0.370	0.300	-7.1	25.0
Dibromochloromethane	0.404	0.384	0.100	-5.0	25.0
1,1,2-Trichloroethane	0.353	0.342	0.100	-3.0	25.0
Benzene	1.388	1.320	0.500	-4.9	25.0
Cyclohexane	0.586	0.666		13.6	
trans-1,3-Dichloropropene	0.638	0.628	0.100	-1.5	25.0
Bromoform	0.263	0.246	0.100	-6.6	25.0
4-Methyl-2-pentanone	0.469	0.454		-3.2	
2-Hexanone	0.373	0.357		-4.4	
Tetrachloroethene	0.274	0.278	0.200	1.5	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V354

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/09/09 Time: 17:56

Lab File ID: 09\G3533.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	0.517	0.519	0.300	0.4	25.0
Methylcyclohexane	0.401	0.561		40.0	
Toluene	1.476	1.385	0.400	-6.1	25.0
Chlorobenzene	1.070	1.037	0.500	-3.1	25.0
Ethylbenzene	0.491	0.495	0.100	0.8	25.0
Styrene	1.123	1.111	0.300	-1.1	25.0
Xylene (total)	0.605	0.610	0.300	0.9	25.0
m,p-Xylene	0.612	0.624	0.300	2.0	25.0
o-Xylene	0.605	0.610		0.9	
1,2-Dibromoethane	0.402	0.387		-3.7	
Isopropylbenzene	1.486	1.684		13.3	
1,3-Dichlorobenzene	0.723	0.785		8.5	
1,4-Dichlorobenzene	0.744	0.802		7.8	
1,2-Dichlorobenzene	0.685	0.719		5.0	
1,2-Dibromo-3-chloropropane	0.088	0.086		-2.7	
1,2,4-Trichlorobenzene	0.382	0.502		31.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V355

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/14/09 Time: 13:57

Lab File ID: 09\G3602.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.071		11.7	
Dichlorodifluoromethane	1.753	1.664		-5.1	
Bromomethane	1.292	1.399	0.100	8.3	25.0
Vinyl chloride	2.174	2.122	0.100	-2.4	25.0
Chloroethane	1.461	1.449		-0.8	
Methylene chloride	4.550	3.195		-29.8	
Acetone	0.822	0.788		-4.1	
Trichlorofluoromethane	2.210	2.188		-1.0	
1,1-Dichloroethene	1.910	1.576	0.100	-17.5	25.0
Carbon disulfide	6.952	5.596		-19.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.510		-14.0	
1,1-Dichloroethane	4.398	4.377	0.200	-0.5	25.0
1,2-Dichloroethene (total)	2.407	2.339		-2.8	
Chloroform	3.905	4.127	0.200	5.7	25.0
1,2-Dichloroethane	2.713	3.200	0.100	17.9	25.0
Methyl Acetate	1.798	1.888		5.0	
2-Butanone	1.290	1.404		8.8	
1,1,1-Trichloroethane	0.584	0.487	0.100	-16.5	25.0
trans-1,2-Dichloroethene	2.270	2.109		-7.1	
Carbon tetrachloride	0.443	0.357	0.100	-19.5	25.0
Methyl tert-butyl ether	5.691	6.220		9.3	
Bromodichloromethane	0.513	0.514	0.200	0.2	25.0
1,2-Dichloropropane	0.428	0.430		0.5	
cis-1,2-Dichloroethene	2.539	2.558		0.7	
cis-1,3-Dichloropropene	0.685	0.686	0.200	0.1	25.0
Trichloroethene	0.398	0.359	0.300	-9.9	25.0
Dibromochloromethane	0.404	0.425	0.100	5.2	25.0
1,1,2-Trichloroethane	0.353	0.374	0.100	6.0	25.0
Benzene	1.388	1.299	0.500	-6.4	25.0
Cyclohexane	0.586	0.490		-16.4	
trans-1,3-Dichloropropene	0.638	0.657	0.100	3.0	25.0
Bromoform	0.263	0.289	0.100	9.7	25.0
4-Methyl-2-pentanone	0.469	0.382		-18.6	
2-Hexanone	0.373	0.312		-16.4	
Tetrachloroethene	0.274	0.209	0.200	-23.7	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V388

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/14/09 Time: 13:57

Lab File ID: 09\G3602.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No. (VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	0.517	0.518	0.300	0.2	25.0
Methylcyclohexane	0.401	0.385		-3.9	
Toluene	1.476	1.099	0.400	-25.5	25.0
Chlorobenzene	1.070	0.882	0.500	-17.6	25.0
Ethylbenzene	0.491	0.406	0.100	-17.3	25.0
Styrene	1.123	0.971	0.300	-13.6	25.0
Xylene (total)	0.605	0.518	0.300	-14.3	25.0
m,p-Xylene	0.612	0.515	0.300	-15.8	25.0
o-Xylene	0.605	0.518		-14.3	
1,2-Dibromoethane	0.402	0.361		-10.2	
Isopropylbenzene	1.486	1.368		-7.9	
1,3-Dichlorobenzene	0.723	0.696		-3.8	
1,4-Dichlorobenzene	0.744	0.714		-4.0	
1,2-Dichlorobenzene	0.685	0.663		-3.2	
1,2-Dibromo-3-chloropropane	0.088	0.081		-8.4	
1,2,4-Trichlorobenzene	0.382	0.431		12.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V389

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/19/09 Time: 14:35

Lab File ID: 09\G3626.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	2.796		1.7	
Dichlorodifluoromethane	1.753	1.842		5.1	
Bromomethane	1.292	1.417	0.100	9.7	25.0
Vinyl chloride	2.174	1.814	0.100	-16.6	25.0
Chloroethane	1.461	1.194		-18.3	
Methylene chloride	4.550	2.369		-47.9	
Acetone	0.822	0.811		-1.3	
Trichlorofluoromethane	2.210	2.282		3.2	
1,1-Dichloroethene	1.910	1.517	0.100	-20.6	25.0
Carbon disulfide	6.952	5.186		-25.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.504		-14.3	
1,1-Dichloroethane	4.398	3.756	0.200	-14.6	25.0
1,2-Dichloroethene (total)	2.407	1.980		-17.7	
Chloroform	3.905	3.499	0.200	-10.4	25.0
1,2-Dichloroethane	2.713	2.668	0.100	-1.7	25.0
Methyl Acetate	1.798	1.786		-0.7	
2-Butanone	1.290	1.379		6.9	
1,1,1-Trichloroethane	0.584	0.463	0.100	-20.7	25.0
trans-1,2-Dichloroethene	2.270	1.823		-19.7	
Carbon tetrachloride	0.443	0.371	0.100	-16.3	25.0
Methyl tert-butyl ether	5.691	4.617		-18.9	
Bromodichloromethane	0.513	0.470	0.200	-8.4	25.0
1,2-Dichloropropane	0.428	0.407		-4.8	
cis-1,2-Dichloroethene	2.539	2.131		-16.1	
cis-1,3-Dichloropropene	0.685	0.687	0.200	0.3	25.0
Trichloroethene	0.398	0.371	0.300	-6.9	25.0
Dibromochloromethane	0.404	0.445	0.100	10.1	25.0
1,1,2-Trichloroethane	0.353	0.368	0.100	4.3	25.0
Benzene	1.388	1.240	0.500	-10.7	25.0
Cyclohexane	0.586	0.605		3.2	
trans-1,3-Dichloropropene	0.638	0.679	0.100	6.5	25.0
Bromoform	0.263	0.333	0.100	26.4	25.0
4-Methyl-2-pentanone	0.469	0.439		-6.4	
2-Hexanone	0.373	0.370		-0.9	
Tetrachloroethene	0.274	0.249	0.200	-9.1	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V401

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5972-2 Calibration Date: 10/19/09 Time: 14:35

Lab File ID: 09\G3626.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,1,2,2-Tetrachloroethane	0.517	0.540	0.300	4.5	25.0
Methylcyclohexane	0.401	0.526		31.2	
Toluene	1.476	1.182	0.400	-19.9	25.0
Chlorobenzene	1.070	0.958	0.500	-10.5	25.0
Ethylbenzene	0.491	0.447	0.100	-9.0	25.0
Styrene	1.123	1.071	0.300	-4.7	25.0
Xylene (total)	0.605	0.570	0.300	-5.7	25.0
m,p-Xylene	0.612	0.577	0.300	-5.6	25.0
o-Xylene	0.605	0.570		-5.7	
1,2-Dibromoethane	0.402	0.382		-5.0	
Isopropylbenzene	1.486	1.604		7.9	
1,3-Dichlorobenzene	0.723	0.802		10.9	
1,4-Dichlorobenzene	0.744	0.829		11.5	
1,2-Dichlorobenzene	0.685	0.749		9.3	
1,2-Dibromo-3-chloropropane	0.088	0.099		12.0	
1,2,4-Trichlorobenzene	0.382	0.519		35.9	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 V402

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-33167

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1´-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM056 B455

1D

EPA SAMPLE NO.

MB-33167

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix: (soil/water) SOIL Lab Sample ID: MB-33167

Sample wt/vol: 15 (g/mL) G Lab File ID: 9\N34566.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/07/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/12/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	72	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM056 B456

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/13/09

Lab File ID (Standard): 9\N34594.D Time Analyzed: 17:33

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	936167	11.76	967438	14.91	716180	15.99
	UPPER LIMIT	1872334	12.26	1934876	15.41	1432360	16.49
	LOWER LIMIT	468084	11.26	483719	14.41	358090	15.49
	EPA SAMPLE NO.						
01	SB-12(10'-12.2')	823884	11.75	805204	14.92	597586	16.00
02	SB-13(0'-1')	995617	11.79	978241	14.95	553958	16.03
03	SB-15(12'-14')	557051	11.91	346239* 35.8%	14.99	139683* 19.5%	16.03
04	SB-15(38'-40')	492244	11.95	352002* 36.4%	15.01	135512* 18.9	16.04

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM056 B30

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/16/09

Lab File ID (Standard): 9\N34667.D Time Analyzed: 16:57

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	240942	4.23	825779	5.72	507682	8.74
	UPPER LIMIT	481884	4.73	1651558	6.22	1015364	9.24
	LOWER LIMIT	120471	3.73	412890	5.22	253841	8.24
	EPA SAMPLE NO.						
01	SB-13(0'-1')DL	242461	4.23	869645	5.71	518938	8.73
02	SB-13(12'-14')	236404	4.24	435333	5.77	514729	8.73
03	SB-15(12'-14')DL	214379	4.23	773555	5.71	459652	8.73
04	SB-15(38'-40')DL	215910	4.23	785778	5.71	468735	8.73
05	MB-33232	203312	4.24	740271	5.71	443028	8.72
06	LCS-33232	215321	4.23	761914	5.71	458335	8.73
07	LFB-33232	266663	4.24	927625	5.72	564539	8.73
08	SB-11(54'-56')	244271	4.24	863691	5.71	519283	8.73
09	SB-11(16'-18')	185510	4.24	673567	5.73	420719	8.78
10	TP-1(9')	194842	4.24	374298* 45.3%	5.83	420310	8.78
11	TP-1(9')MS	176827	4.24	512996	5.84	370629	8.74
12	TP-1(9')MSD	207971	4.25	466722	5.84	436599	8.75

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/16/09

Lab File ID (Standard): 9\N34667.D Time Analyzed: 16:57

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	852767	11.60	961744	14.83	827717	15.90
	UPPER LIMIT	1705534	12.10	1923488	15.33	1655434	16.40
	LOWER LIMIT	426384	11.10	480872	14.33	413859	15.40
	EPA SAMPLE NO.						
01	SB-13(0'-1')DL	833572	11.59	965028	14.83	871615	15.90
02	SB-13(12'-14')	829487	11.60	983750	14.83	864818	15.91
03	SB-15(12'-14')DL	739122	11.59	827818	14.82	758785	15.90
04	SB-15(38'-40')DL	751234	11.59	828424	14.82	746873	15.90
05	MB-33232	721995	11.59	738720	14.82	651378	15.90
06	LCS-33232	760880	11.59	791017	14.82	688395	15.90
07	LFB-33232	928501	11.60	1028370	14.83	862939	15.90
08	SB-11(54'-56')	815123	11.59	826586	14.82	602022	15.90
09	SB-11(16'-18')	619058	11.68	441616* 45.9%	14.88	226939* 27.4%	15.93
10	TP-1(9')	493427	11.82	201784* 21.7%	14.93	95126* 11.5%	15.95
11	TP-1(9')MS	598271	11.69	335489*	14.87	133351*	15.92
12	TP-1(9')MSD	666512	11.70	345666*	14.88	144251*	15.93

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM056 B32

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/22/09

Lab File ID (Standard): 9\N34789.D Time Analyzed: 16:22

Instrument ID: HP5973N GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	772100	11.28	745604	14.65	553373	15.71
	UPPER LIMIT	1544200	11.78	1491208	15.15	1106746	16.21
	LOWER LIMIT	386050	10.78	372802	14.15	276687	15.21
	EPA SAMPLE NO.						
01	MB-33364	581733	11.26	510528	14.63	385798	15.68
02	LFB-33364	715405	11.27	749247	14.64	523382	15.70
03	SB-6(6)	580633	11.26	595107	14.64	452116	15.70
04	SB-2B(5)	600364	11.33	490877	14.70	252185* 45.6	15.74
05	SB-11(32'-32.5')	666874	11.39	664982	14.69	308352	15.72
06	SB-11(32'-32.5')DL	564592	11.26	592900	14.64	390790	15.70
07	SB-2B(5)DL	539094	11.26	570090	14.64	376351	15.69

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

AECOM056 B36

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 16:29

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1000	62	37-137
Benzaldehyde	1700	0	400	24*	40-140
Phenol	1700	0	1100	63	25-131
Bis(2-chloroethyl)ether	1700	0	1100	67	39-111
2-Chlorophenol	1700	0	1100	69	48-116
2-Methylphenol	1700	0	1200	71	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1100	67	28-146
Acetophenone	1700	0	1300	77	60-140
N-Nitroso-di-n-propylamine	1700	0	1100	65	40-124
Hexachloroethane	1700	0	1100	65	41-119
Nitrobenzene	1700	0	1100	66	48-126
Isophorone	1700	0	1100	64	33-131
2-Nitrophenol	1700	0	1100	68	41-121
2,4-Dimethylphenol	1700	0	1000	62	39-135
Bis(2-chloroethoxy)methane	1700	0	1100	68	20-148
2,4-Dichlorophenol	1700	0	1200	70	46-130
Naphthalene	1700	0	1100	65	47-117
4-Chloroaniline	1700	0	920	55	25-133
Hexachlorobutadiene	1700	0	1000	63	11-135
Caprolactam	1700	0	1400	82	40-140
4-Chloro-3-methylphenol	1700	0	1200	72	45-135
2-Methylnaphthalene	1700	0	1100	68	60-140
Hexachlorocyclopentadiene	1700	0	820	49	13-119
2,4,6-Trichlorophenol	1700	0	1200	72	53-131
2,4,5-Trichlorophenol	1700	0	1200	72	48-132
1,1'-Biphenyl	1700	0	1300	76	40-140
2-Chloronaphthalene	1700	0	1000	63	47-123
2-Nitroaniline	1700	0	1200	74	41-131
Dimethylphthalate	1700	0	1200	75	10-162
2,6-Dinitrotoluene	1700	0	1200	71	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B7

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 16:29

Acenaphthylene	1700	0	1100	66	61-135
3-Nitroaniline	1700	0	1200	71	11-167
Acenaphthene	1700	0	1200	70	36-132
2,4-Dinitrophenol	1700	0	1100	67	11-101
4-Nitrophenol	1700	0	1200	69	22-156
Dibenzofuran	1700	0	1200	72	24-156
2,4-Dinitrotoluene	1700	0	1200	73	48-134
Diethylphthalate	1700	0	1200	74	24-156
Fluorene	1700	0	1200	70	55-129
4-Chlorophenyl-phenylether	1700	0	1200	70	50-130
4-Nitroaniline	1700	0	1200	73	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	77	47-107
N-Nitrosodiphenylamine	1700	0	990	59	27-135
4-Bromophenyl-phenylether	1700	0	1200	73	50-142
Hexachlorobenzene	1700	0	1200	72	56-154
Atrazine	1700	0	1600	94	40-140
Pentachlorophenol	1700	0	1200	73	12-124
Phenanthrene	1700	0	1300	76	57-135
Anthracene	1700	0	1200	74	61-135
Carbazole	1700	0	1300	76	47-143
Di-n-butyl phthalate	1700	72	1400	82	44-144
Fluoranthene	1700	0	1300	80	61-135
Pyrene	1700	0	1300	78	58-136
Butyl benzyl phthalate	1700	0	1400	86	49-135
3,3'-Dichlorobenzidine	1700	0	1400	82	20-132
Benzo(a)anthracene	1700	0	1300	81	56-136
Chrysene	1700	0	1300	78	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1500	93	33-193
Di-n-octyl phthalate	1700	0	1500	87	45-155
Benzo(b)fluoranthene	1700	0	1200	71	43-147
Benzo(k)fluoranthene	1700	0	1500	87	53-159
Benzo(a)pyrene	1700	0	1400	85	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	85	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B8

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33167 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/12/09 18:06 10/01/09 16:29

Dibenzo(a,h)anthracene	1700	0	1400	86	15-185
Benzo(g,h,i)perylene	1700	0	1300	79	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B9

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LCS-33232 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 20:54 10/01/09 16:29

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Phenol	2500	0	1800	72	12-110
2-Chlorophenol	2500	0	2200	87	27-123
N-Nitroso-di-n-propylamine	1700	0	1300	77	41-116
4-Chloro-3-methylphenol	2500	0	2200	89	23-97
Acenaphthene	1700	0	1400	84	46-118
4-Nitrophenol	2500	0	1800	71	10-80
2,4-Dinitrotoluene	1700	0	1500	89	24-96
Pentachlorophenol	2500	0	2100	85	9-103
Pyrene	1700	0	1800	106	26-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

AECOM056 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 16:29

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	78	37-137
Benzaldehyde	1700	0	540	32*	40-140
Phenol	1700	0	1300	76	25-131
Bis(2-chloroethyl)ether	1700	0	1300	80	39-111
2-Chlorophenol	1700	0	1400	84	48-116
2-Methylphenol	1700	0	1400	86	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1400	85	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	76	40-124
Hexachloroethane	1700	0	1300	78	41-119
Nitrobenzene	1700	0	1400	82	48-126
Isophorone	1700	0	1300	79	33-131
2-Nitrophenol	1700	0	1400	86	41-121
2,4-Dimethylphenol	1700	0	1300	76	39-135
Bis(2-chloroethoxy)methane	1700	0	1400	82	20-148
2,4-Dichlorophenol	1700	0	1500	88	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	70	25-133
Hexachlorobutadiene	1700	0	1300	78	11-135
Caprolactam	1700	0	1200	71	40-140
4-Chloro-3-methylphenol	1700	0	1500	89	45-135
2-Methylnaphthalene	1700	0	1400	85	60-140
Hexachlorocyclopentadiene	1700	0	1100	66	13-119
2,4,6-Trichlorophenol	1700	0	1500	92	53-131
2,4,5-Trichlorophenol	1700	0	1600	94	48-132
1,1'-Biphenyl	1700	0	1500	88	40-140
2-Chloronaphthalene	1700	0	1300	76	47-123
2-Nitroaniline	1700	0	1500	92	41-131
Dimethylphthalate	1700	0	1500	91	10-162
2,6-Dinitrotoluene	1700	0	1500	88	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM056 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 16:29

Acenaphthylene	1700	0	1400	83	61-135
3-Nitroaniline	1700	0	1400	85	11-167
Acenaphthene	1700	0	1400	86	36-132
2,4-Dinitrophenol	1700	0	1700	103*	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1500	88	24-156
2,4-Dinitrotoluene	1700	0	1500	90	48-134
Diethylphthalate	1700	0	1500	90	24-156
Fluorene	1700	0	1500	88	55-129
4-Chlorophenyl-phenylether	1700	0	1500	90	50-130
4-Nitroaniline	1700	0	1500	87	14-136
4,6-Dinitro-2-methylphenol	1700	0	1800	108*	47-107
N-Nitrosodiphenylamine	1700	0	1200	75	27-135
4-Bromophenyl-phenylether	1700	0	1500	88	50-142
Hexachlorobenzene	1700	0	1500	92	56-154
Atrazine	1700	0	1700	104	40-140
Pentachlorophenol	1700	0	1700	100	12-124
Phenanthrene	1700	0	1600	95	57-135
Anthracene	1700	0	1500	92	61-135
Carbazole	1700	0	1500	90	47-143
Di-n-butyl phthalate	1700	0	1600	97	44-144
Fluoranthene	1700	0	1600	95	61-135
Pyrene	1700	0	1600	95	58-136
Butyl benzyl phthalate	1700	0	1700	100	49-135
3,3'-Dichlorobenzidine	1700	0	1500	89	20-132
Benzo(a)anthracene	1700	0	1600	95	56-136
Chrysene	1700	0	1500	91	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1800	106	33-193
Di-n-octyl phthalate	1700	0	1700	104	45-155
Benzo(b)fluoranthene	1700	0	1400	81	43-147
Benzo(k)fluoranthene	1700	0	1800	108	53-159
Benzo(a)pyrene	1700	0	1700	100	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	92	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM056 B12

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 16:29

Dibenzo(a,h)anthracene	1700	0	1500	92	15-185
Benzo(g,h,i)perylene	1700	0	1200	74	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM056 B13

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/22/09 17:21 10/01/09 16:29

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1200	70	37-137
Benzaldehyde	1700	0	300	18*	40-140
Phenol	1700	0	1200	69	25-131
Bis(2-chloroethyl)ether	1700	0	1300	79	39-111
2-Chlorophenol	1700	0	1300	80	48-116
2-Methylphenol	1700	0	1400	85	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	77	28-146
Acetophenone	1700	0	1300	75	60-140
N-Nitroso-di-n-propylamine	1700	0	1200	71	40-124
Hexachloroethane	1700	0	1200	72	41-119
Nitrobenzene	1700	0	1300	76	48-126
Isophorone	1700	0	1300	76	33-131
2-Nitrophenol	1700	0	1400	82	41-121
2,4-Dimethylphenol	1700	0	1200	74	39-135
Bis(2-chloroethoxy)methane	1700	0	1300	80	20-148
2,4-Dichlorophenol	1700	0	1400	83	46-130
Naphthalene	1700	0	1300	76	47-117
4-Chloroaniline	1700	0	980	59	25-133
Hexachlorobutadiene	1700	0	1300	76	11-135
Caprolactam	1700	0	1400	81	40-140
4-Chloro-3-methylphenol	1700	0	1400	82	45-135
2-Methylnaphthalene	1700	0	1300	81	60-140
Hexachlorocyclopentadiene	1700	0	1100	65	13-119
2,4,6-Trichlorophenol	1700	0	1400	86	53-131
2,4,5-Trichlorophenol	1700	0	1500	89	48-132
1,1'-Biphenyl	1700	0	1300	77	40-140
2-Chloronaphthalene	1700	0	880	53	47-123
2-Nitroaniline	1700	0	1400	85	41-131
Dimethylphthalate	1700	0	1400	85	10-162
2,6-Dinitrotoluene	1700	0	1400	82	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B14

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/22/09 17:21 10/01/09 16:29

Acenaphthylene	1700	0	1300	75	61-135
3-Nitroaniline	1700	0	1100	68	11-167
Acenaphthene	1700	0	1300	79	36-132
2,4-Dinitrophenol	1700	0	1200	74	11-101
4-Nitrophenol	1700	0	1200	73	22-156
Dibenzofuran	1700	0	1400	81	24-156
2,4-Dinitrotoluene	1700	0	1400	83	48-134
Diethylphthalate	1700	0	1400	86	24-156
Fluorene	1700	0	1300	80	55-129
4-Chlorophenyl-phenylether	1700	0	1400	85	50-130
4-Nitroaniline	1700	0	1300	79	14-136
4,6-Dinitro-2-methylphenol	1700	0	1600	96	47-107
N-Nitrosodiphenylamine	1700	0	1200	74	27-135
4-Bromophenyl-phenylether	1700	0	1500	87	50-142
Hexachlorobenzene	1700	0	1500	90	56-154
Atrazine	1700	0	1700	102	40-140
Pentachlorophenol	1700	0	1400	82	12-124
Phenanthrene	1700	0	1500	91	57-135
Anthracene	1700	0	1500	91	61-135
Carbazole	1700	0	1200	71	47-143
Di-n-butyl phthalate	1700	0	1600	97	44-144
Fluoranthene	1700	0	1600	96	61-135
Pyrene	1700	0	1400	85	58-136
Butyl benzyl phthalate	1700	0	1600	96	49-135
3,3'-Dichlorobenzidine	1700	0	990	60	20-132
Benzo(a)anthracene	1700	0	1400	87	56-136
Chrysene	1700	0	1400	85	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1600	98	33-193
Di-n-octyl phthalate	1700	0	1700	105	45-155
Benzo(b)fluoranthene	1700	0	1200	74	43-147
Benzo(k)fluoranthene	1700	0	1400	86	53-159
Benzo(a)pyrene	1700	0	1600	94	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	83	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B15

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM056

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

10/01/09 16:29

Analysis Date: 10/22/09 17:21

Dibenzo(a,h)anthracene	1700	0	1400	83	15-185
Benzo(g,h,i)perylene	1700	0	1300	76	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM056 B16

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-33167	67	71	72	74	74	99	68	67	0
02	LFB-33167	64	69	73	77	74	82	67	67	0
03	SB-15(42'-44')	52	58	61	66	61	105	54	52	0
04	SB-18(38'-40')	67	72	76	79	76	107	69	66	0
05	SB-18(42'-44')	64	69	72	75	71	106	65	63	0
06	SB-18(12'-14')	65	77	71	51	90	84	66	68	0
07	SB-12(10'-12.2')	63	65	72	90	77	105	64	63	0
08	SB-13(0'-1')	61	62	69	85	75	90	62	61	0
09	SB-15(12'-14')	61	83	74	79	93	147 *	65	64	1
10	SB-15(38'-40')	44	94	60	90	88	181 *	51	54	1
11	SB-13(0'-1')DL	65	76	77	93	88	97	71	76	0
12	SB-13(12'-14')	46	158 *	64	95	93	105	59	69	1
13	SB-15(12'-14')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
14	SB-15(38'-40')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
15	MB-33232	82	88	92	92	93	109	85	84	0
16	LCS-33232	75	81	86	86	86	100	79	76	0
17	LFB-33232	73	81	83	90	87	93	77	78	0
18	SB-11(54'-56')	89	88	89	88	94	103	84	84	0
19	SB-11(16'-18')	93	82	87	86	98	139 *	93	88	1
20	TP-1(9')	77	96	51	67	88	266 *	82	63	1
21	TP-1(9')MS	89	99	87	98	94	175 *	92	82	1
22	TP-1(9')MSD	94	100	89	95	95	192 *	93	82	1
23	SB-11(16'-18')DL	84	76	65	99	94	100	80	88	0
24	TP-2(8.5)	72	66	66	87	91	104	73	77	0
25	TP-1(9')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
26	SB-13(12'-14')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
27	DUP-3	87	86	85	101	96	100	83	83	0
28	MB-33364	70	78	75	71	80	98	73	72	0
29	LFB-33364	69	76	76	83	80	81	72	74	0

				QC LIMITS	
S 1	2FP	=	2-Fluorophenol	(25-121)	
S 2	NBZ	=	Nitrobenzene-d5	(23-120)	
S 3	PD5	=	Phenol-d5	(24-113)	
S 4	TBP	=	2,4,6-Tribromophenol	(19-122)	
S 5	FBP	=	2-Fluorobiphenyl	(30-115)	
S 6	TPH	=	4-Terphenyl-d14	(18-137)	
S 7	2CP	=	2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	=	1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM056 B4

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP #	S2 NBZ #	S3 PD5 #	S4 TBP #	S5 FBP #	S6 TPH #	S7 2CP #	S8 DCB #	TOT OUT
31	SB-6(6)	88	84	86	92	89	91	83	79	0
32	SB-2B(5)	79	78	75	86	85	87	75	72	0
33	SB-11(32'-32.5')	104	94	85	105	118 *	103	96	98	1
34	SB-11(32'-32.5')DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
35	SB-2B(5)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(25-121)	
S 2	NBZ	= Nitrobenzene-d5	(23-120)	
S 3	PD5	= Phenol-d5	(24-113)	
S 4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S 5	FBP	= 2-Fluorobiphenyl	(30-115)	
S 6	TPH	= 4-Terphenyl-d14	(18-137)	
S 7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM056 B5

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date(s): 10/01/09 10/01/09

Calibration Times: 13:28 15:59

LAB FILE ID: SSTD005 N34361.D SSTD010 N34362.D
SSTD025 N34360.D SSTD040 N34363.D SSTD080 N34365.D

		COMPOUND	SSTD005	SSTD010	SSTD025	SSTD040	SSTD080	RRF	% RSD	
		3-Methylphenol/4-Methylphenol	1.171	1.298	1.342	1.489	1.569	1.374	11.5	
		Aniline	1.818	1.937	1.953	2.150	2.265	2.025	8.9	
		Benzidine	0.335	0.358	0.415	0.418	0.401	0.385	9.5	
		Benzyl alcohol	0.583	0.707	0.720	0.859	0.978	0.769	19.8	
		Pyridine	1.330	1.413	1.408	1.425	1.444	1.404	3.1	
		Benzaldehyde	0.733	0.882	0.710	0.653	0.359	0.667	28.8	
		N-Nitrosodimethylamine	0.659	0.718	0.720	0.747	0.746	0.718	5.0	
	*	Phenol	1.711	1.740	1.749	1.912	2.023	1.827	7.4	*
	*	Bis(2-chloroethyl)ether	1.154	1.246	1.134	1.272	1.298	1.221	6.0	*
	*	2-Chlorophenol	1.228	1.319	1.303	1.417	1.487	1.351	7.5	*
	*	2-Methylphenol	1.145	1.206	1.172	1.243	1.264	1.206	4.0	*
		2,2´-oxybis(1-chloropropane)	1.821	1.918	1.840	1.956	1.972	1.901	3.6	
		Acetophenone	1.388	1.752	1.636	1.854	1.839	1.694	11.3	
	*	N-Nitroso-di-n-propylamine	0.894	0.977	0.966	1.052	1.046	0.987	6.6	*
	*	Hexachloroethane	0.558	0.599	0.589	0.630	0.641	0.603	5.5	*
	*	Nitrobenzene	0.379	0.403	0.397	0.425	0.440	0.409	5.9	*
	*	Isophorone	0.666	0.718	0.704	0.747	0.766	0.720	5.4	*
	*	2-Nitrophenol	0.183	0.196	0.199	0.220	0.230	0.206	9.1	*
	*	2,4-Dimethylphenol	0.321	0.344	0.362	0.392	0.411	0.366	9.9	*
	*	Bis(2-chloroethoxy)methane	0.378	0.399	0.400	0.426	0.439	0.408	5.9	*
	*	2,4-Dichlorophenol	0.283	0.308	0.308	0.337	0.364	0.320	9.7	*
	*	Naphthalene	1.007	1.065	1.064	1.169	1.246	1.110	8.6	*
		4-Chloroaniline	0.428	0.461	0.470	0.528	0.560	0.489	10.9	
		Hexachlorobutadiene	0.217	0.225	0.223	0.243	0.257	0.233	7.2	
		Caprolactam	0.088	0.109	0.109	0.116	0.118	0.108	11.0	
	*	4-Chloro-3-methylphenol	0.259	0.293	0.291	0.320	0.334	0.299	9.7	*
	*	2-Methylnaphthalene	0.655	0.711	0.704	0.776	0.828	0.735	9.2	*
		Hexachlorocyclopentadiene	0.230	0.309	0.356	0.411	0.455	0.352	25.0	
	*	2,4,6-Trichlorophenol	0.327	0.364	0.373	0.404	0.441	0.382	11.3	*
	*	2,4,5-Trichlorophenol		0.358	0.387	0.418	0.459	0.405	10.7	*
		1,1´-Biphenyl	1.260	1.516	1.478	1.720	1.825	1.560	14.1	
	*	2-Chloronaphthalene	1.259	1.357	1.371	1.499	1.536	1.404	8.0	*
		2-Nitroaniline		0.327	0.333	0.354	0.362	0.344	4.8	
		Dimethylphthalate	1.174	1.265	1.238	1.329	1.391	1.279	6.5	
	*	2,6-Dinitrotoluene	0.268	0.290	0.297	0.327	0.360	0.308	11.6	*
	*	Acenaphthylene	1.643	1.771	1.768	1.953	2.140	1.855	10.4	*
		3-Nitroaniline		0.308	0.314	0.331	0.344	0.324	5.0	
	*	Acenaphthene	1.082	1.137	1.137	1.248	1.347	1.190	8.9	*
		2,4-Dinitrophenol		0.099	0.140	0.172	0.210	0.155	30.5	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B375

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date: 10/12/20 Time: 17:01

Lab File ID: 9\N34565.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.356		-1.3	
Benzaldehyde	0.667	0.457		-31.5	
Phenol	1.827	1.704	0.800	-6.7	25.0
Bis(2-chloroethyl)ether	1.221	1.164	0.700	-4.6	25.0
2-Chlorophenol	1.351	1.303	0.800	-3.5	25.0
2-Methylphenol	1.206	1.105	0.700	-8.4	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.697		-10.8	
Acetophenone	1.694	1.621		-4.3	
N-Nitroso-di-n-propylamine	0.987	1.131	0.500	14.6	25.0
Hexachloroethane	0.603	0.576	0.300	-4.5	25.0
Nitrobenzene	0.409	0.372	0.200	-9.0	25.0
Isophorone	0.720	0.678	0.400	-5.8	25.0
2-Nitrophenol	0.206	0.200	0.100	-2.7	25.0
2,4-Dimethylphenol	0.366	0.351	0.200	-4.1	25.0
Bis(2-chloroethoxy)methane	0.408	0.371	0.300	-9.1	25.0
2,4-Dichlorophenol	0.320	0.306	0.200	-4.3	25.0
Naphthalene	1.110	1.063	0.700	-4.3	25.0
4-Chloroaniline	0.489	0.465		-4.9	
Hexachlorobutadiene	0.233	0.218		-6.4	
Caprolactam	0.108	0.100		-7.5	
4-Chloro-3-methylphenol	0.299	0.290	0.200	-3.1	25.0
2-Methylnaphthalene	0.735	0.715	0.400	-2.7	25.0
Hexachlorocyclopentadiene	0.352	0.355		0.8	
2,4,6-Trichlorophenol	0.382	0.378	0.200	-1.0	25.0
2,4,5-Trichlorophenol	0.405	0.403	0.200	-0.5	25.0
1,1'-Biphenyl	1.560	1.509		-3.3	
2-Chloronaphthalene	1.404	1.289	0.800	-8.2	25.0
2-Nitroaniline	0.344	0.318		-7.5	
Dimethylphthalate	1.279	1.231		-3.8	
2,6-Dinitrotoluene	0.308	0.309	0.200	0.2	25.0
Acenaphthylene	1.855	1.834	1.300	-1.1	25.0
3-Nitroaniline	0.324	0.316		-2.6	
Acenaphthene	1.190	1.149	0.800	-3.4	25.0
2,4-Dinitrophenol	0.155	0.122		-21.5	
4-Nitrophenol	0.185	0.214		15.4	
Dibenzofuran	1.593	1.579	0.800	-0.9	25.0
2,4-Dinitrotoluene	0.380	0.380	0.200	0.1	25.0
Diethylphthalate	1.262	1.233		-2.3	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B402

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date: 10/13/20 Time: 17:33

Lab File ID: 9\N34594.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.302		-5.2	
Benzaldehyde	0.667	0.418		-37.4	
Phenol	1.827	1.636	0.800	-10.5	25.0
Bis(2-chloroethyl)ether	1.221	1.151	0.700	-5.7	25.0
2-Chlorophenol	1.351	1.283	0.800	-5.0	25.0
2-Methylphenol	1.206	1.101	0.700	-8.7	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.622		-14.7	
Acetophenone	1.694	1.569		-7.4	
N-Nitroso-di-n-propylamine	0.987	0.879	0.500	-10.9	25.0
Hexachloroethane	0.603	0.561	0.300	-7.0	25.0
Nitrobenzene	0.409	0.358	0.200	-12.4	25.0
Isophorone	0.720	1.048	0.400	45.6	25.0
2-Nitrophenol	0.206	0.203	0.100	-1.3	25.0
2,4-Dimethylphenol	0.366	0.345	0.200	-5.7	25.0
Bis(2-chloroethoxy)methane	0.408	0.380	0.300	-6.9	25.0
2,4-Dichlorophenol	0.320	0.307	0.200	-4.0	25.0
Naphthalene	1.110	1.067	0.700	-3.9	25.0
4-Chloroaniline	0.489	0.468		-4.3	
Hexachlorobutadiene	0.233	0.218		-6.4	
Caprolactam	0.108	0.100		-7.5	
4-Chloro-3-methylphenol	0.299	0.283	0.200	-5.5	25.0
2-Methylnaphthalene	0.735	0.717	0.400	-2.4	25.0
Hexachlorocyclopentadiene	0.352	0.327		-7.1	
2,4,6-Trichlorophenol	0.382	0.374	0.200	-2.0	25.0
2,4,5-Trichlorophenol	0.405	0.396	0.200	-2.3	25.0
1,1'-Biphenyl	1.560	1.469		-5.8	
2-Chloronaphthalene	1.404	1.222	0.800	-13.0	25.0
2-Nitroaniline	0.344	0.305		-11.3	
Dimethylphthalate	1.279	1.213		-5.2	
2,6-Dinitrotoluene	0.308	0.302	0.200	-2.1	25.0
Acenaphthylene	1.855	1.815	1.300	-2.2	25.0
3-Nitroaniline	0.324	0.311		-4.1	
Acenaphthene	1.190	1.136	0.800	-4.5	25.0
2,4-Dinitrophenol	0.155	0.110		-29.2	
4-Nitrophenol	0.185	0.190		2.5	
Dibenzofuran	1.593	1.567	0.800	-1.6	25.0
2,4-Dinitrotoluene	0.380	0.378	0.200	-0.4	25.0
Diethylphthalate	1.262	1.221		-3.3	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B411

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date: 10/16/20 Time: 16:57

Lab File ID: 9\N34667.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.330		-3.2	
Benzaldehyde	0.667	0.355		-46.8	
Phenol	1.827	1.717	0.800	-6.0	25.0
Bis(2-chloroethyl)ether	1.221	1.166	0.700	-4.5	25.0
2-Chlorophenol	1.351	1.303	0.800	-3.5	25.0
2-Methylphenol	1.206	1.100	0.700	-8.8	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.690		-11.1	
Acetophenone	1.694	1.576		-7.0	
N-Nitroso-di-n-propylamine	0.987	0.920	0.500	-6.8	25.0
Hexachloroethane	0.603	0.564	0.300	-6.5	25.0
Nitrobenzene	0.409	0.367	0.200	-10.2	25.0
Isophorone	0.720	0.670	0.400	-6.9	25.0
2-Nitrophenol	0.206	0.198	0.100	-3.7	25.0
2,4-Dimethylphenol	0.366	0.350	0.200	-4.3	25.0
Bis(2-chloroethoxy)methane	0.408	0.384	0.300	-5.9	25.0
2,4-Dichlorophenol	0.320	0.306	0.200	-4.3	25.0
Naphthalene	1.110	1.064	0.700	-4.2	25.0
4-Chloroaniline	0.489	0.476		-2.7	
Hexachlorobutadiene	0.233	0.219		-6.0	
Caprolactam	0.108	0.099		-8.4	
4-Chloro-3-methylphenol	0.299	0.289	0.200	-3.5	25.0
2-Methylnaphthalene	0.735	0.718	0.400	-2.3	25.0
Hexachlorocyclopentadiene	0.352	0.317		-10.0	
2,4,6-Trichlorophenol	0.382	0.377	0.200	-1.2	25.0
2,4,5-Trichlorophenol	0.405	0.400	0.200	-1.3	25.0
1,1'-Biphenyl	1.560	1.487		-4.7	
2-Chloronaphthalene	1.404	1.311	0.800	-6.6	25.0
2-Nitroaniline	0.344	0.309		-10.1	
Dimethylphthalate	1.279	1.249		-2.4	
2,6-Dinitrotoluene	0.308	0.307	0.200	-0.5	25.0
Acenaphthylene	1.855	1.821	1.300	-1.8	25.0
3-Nitroaniline	0.324	0.305		-6.0	
Acenaphthene	1.190	1.146	0.800	-3.7	25.0
2,4-Dinitrophenol	0.155	0.141		-9.2	
4-Nitrophenol	0.185	0.202		9.0	
Dibenzofuran	1.593	1.588	0.800	-0.3	25.0
2,4-Dinitrotoluene	0.380	0.382	0.200	0.6	25.0
Diethylphthalate	1.262	1.280		1.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B419

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date: 10/19/20 Time: 14:33

Lab File ID: 9\N34722.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.667	0.302		-54.7	
Phenol	1.827	1.612	0.800	-11.8	25.0
Bis(2-chloroethyl)ether	1.221	1.150	0.700	-5.8	25.0
2-Chlorophenol	1.351	1.273	0.800	-5.8	25.0
2-Methylphenol	1.206	1.065	0.700	-11.7	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.541		-19.0	
Acetophenone	1.694	1.562		-7.8	
N-Nitroso-di-n-propylamine	0.987	0.863	0.500	-12.6	25.0
Hexachloroethane	0.603	0.597	0.300	-1.1	25.0
Nitrobenzene	0.409	0.356	0.200	-12.9	25.0
Isophorone	0.720	1.032	0.400	43.3	25.0
2-Nitrophenol	0.206	0.196	0.100	-4.7	25.0
2,4-Dimethylphenol	0.366	0.348	0.200	-4.9	25.0
Bis(2-chloroethoxy)methane	0.408	0.375	0.300	-8.1	25.0
2,4-Dichlorophenol	0.320	0.288	0.200	-10.0	25.0
Naphthalene	1.110	1.064	0.700	-4.2	25.0
4-Chloroaniline	0.489	0.438		-10.5	
Hexachlorobutadiene	0.233	0.226		-3.0	
Caprolactam	0.108	0.095		-12.1	
4-Chloro-3-methylphenol	0.299	0.278	0.200	-7.1	25.0
2-Methylnaphthalene	0.735	0.711	0.400	-3.2	25.0
Hexachlorocyclopentadiene	0.352	0.372		5.7	
2,4,6-Trichlorophenol	0.382	0.358	0.200	-6.2	25.0
2,4,5-Trichlorophenol	0.405	0.366	0.200	-9.7	25.0
1,1'-Biphenyl	1.560	1.465		-6.1	
2-Chloronaphthalene	1.404	1.283	0.800	-8.6	25.0
2-Nitroaniline	0.344	0.288		-16.2	
Dimethylphthalate	1.279	1.228		-4.0	
2,6-Dinitrotoluene	0.308	0.296	0.200	-4.0	25.0
Acenaphthylene	1.855	1.760	1.300	-5.1	25.0
3-Nitroaniline	0.324	0.311		-4.1	
Acenaphthene	1.190	1.149	0.800	-3.4	25.0
2,4-Dinitrophenol	0.155	0.166		6.8	
4-Nitrophenol	0.185	0.174		-6.1	
Dibenzofuran	1.593	1.566	0.800	-1.7	25.0
2,4-Dinitrotoluene	0.380	0.374	0.200	-1.5	25.0
Diethylphthalate	1.262	1.292		2.4	
Fluorene	1.328	1.328	0.900	0.0	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B428

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP5973N Calibration Date: 10/22/20 Time: 16:22

Lab File ID: 9\N34789.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.265		-7.9	
Benzaldehyde	0.667	0.300		-55.0	
Phenol	1.827	1.691	0.800	-7.4	25.0
Bis(2-chloroethyl)ether	1.221	1.142	0.700	-6.4	25.0
2-Chlorophenol	1.351	1.293	0.800	-4.3	25.0
2-Methylphenol	1.206	1.081	0.700	-10.4	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.598		-16.0	
Acetophenone	1.694	1.539		-9.1	
N-Nitroso-di-n-propylamine	0.987	0.912	0.500	-7.6	25.0
Hexachloroethane	0.603	0.592	0.300	-1.9	25.0
Nitrobenzene	0.409	0.351	0.200	-14.1	25.0
Isophorone	0.720	0.662	0.400	-8.1	25.0
2-Nitrophenol	0.206	0.184	0.100	-10.5	25.0
2,4-Dimethylphenol	0.366	0.349	0.200	-4.6	25.0
Bis(2-chloroethoxy)methane	0.408	0.368	0.300	-9.9	25.0
2,4-Dichlorophenol	0.320	0.301	0.200	-5.9	25.0
Naphthalene	1.110	1.049	0.700	-5.5	25.0
4-Chloroaniline	0.489	0.436		-10.9	
Hexachlorobutadiene	0.233	0.230		-1.2	
Caprolactam	0.108	0.094		-13.0	
4-Chloro-3-methylphenol	0.299	0.293	0.200	-2.1	25.0
2-Methylnaphthalene	0.735	0.711	0.400	-3.2	25.0
Hexachlorocyclopentadiene	0.352	0.285		-19.0	
2,4,6-Trichlorophenol	0.382	0.363	0.200	-4.9	25.0
2,4,5-Trichlorophenol	0.405	0.371	0.200	-8.4	25.0
1,1'-Biphenyl	1.560	1.475		-5.5	
2-Chloronaphthalene	1.404	1.693	0.800	20.6	25.0
2-Nitroaniline	0.344	0.276		-19.7	
Dimethylphthalate	1.279	1.254		-2.0	
2,6-Dinitrotoluene	0.308	0.290	0.200	-6.0	25.0
Acenaphthylene	1.855	1.765	1.300	-4.8	25.0
3-Nitroaniline	0.324	0.265		-18.3	
Acenaphthene	1.190	1.156	0.800	-2.9	25.0
2,4-Dinitrophenol	0.155	0.120		-22.8	
4-Nitrophenol	0.185	0.186		0.3	
Dibenzofuran	1.593	1.544	0.800	-3.1	25.0
2,4-Dinitrotoluene	0.380	0.359	0.200	-5.4	25.0
Diethylphthalate	1.262	1.363		8.0	

All other compounds must meet a minimum RRF of 0.010.

AECOM056 B436

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Matrix Spike - EPA Sample No.: TP-1 (9') Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3100	1500	2800	42	26-90
2-Chlorophenol	3100	0	2900	93	25-102
N-Nitroso-di-n-propylamine	2100	0	1600	80	41-126
4-Chloro-3-methylphenol	3100	0	3500	114*	26-103
Acenaphthene	2100	72000	21000	-2460*	31-137
4-Nitrophenol	3100	0	2800	90	11-114
2,4-Dinitrotoluene	2100	0	1600	79	28-116
Pentachlorophenol	3100	0	2900	96	17-109
Pyrene	2100	280000	58000	-10700*	35-142

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3100	2300	25*	51*	35	26-90
2-Chlorophenol	3100	2500	81	14	50	25-102
N-Nitroso-di-n-propylamine	2100	1500	73	9	38	41-126
4-Chloro-3-methylphenol	3100	3500	113*	1	33	26-103
Acenaphthene	2100	26000	-2230*	-10	19	31-137
4-Nitrophenol	3100	2700	87	3	50	11-114
2,4-Dinitrotoluene	2100	1300	65	19	47	28-116
Pentachlorophenol	3100	2600	83	15	47	17-109
Pyrene	2100	76000	-9820*	-9	36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 9 outside limits

Spike Recovery: 7 out of 18 outside limits

COMMENTS: _____

AECOM056 B6

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-33174	93	118	91	119			0
02	LFB-33174	91	110	92	121			0
03	SB-13 (0'-1')	87	92	112	900 *			1
04	MB-33278	92	94	94	99			0
05	LFB-33278	88	84	92	101			0
06	SB-2B (5)	74	62	75	428 *			1
07	SB-6 (6)	82	85	143	164 *			1

		QC Limits
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

AECOM056 P3

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK38 Date Analyzed: 10/12/09

Lab Sample ID(PIBLK): PIBLK38 Time Analyzed: 12:21

EPA Sample No.(PEM): AR166040 Date Analyzed: 10/12/09

Lab Sample ID(PEM): AR166040 Time Analyzed: 12:38

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.19	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.18	0.20	-10
AROCLOR-1016-3	3.68	3.61	3.75	0.19	0.20	-5.0
AROCLOR-1016-4	3.90	3.83	3.97	0.19	0.20	-5.0
AROCLOR-1016-5	4.31	4.24	4.38	0.20	0.20	0
mean:				0.192	0.2	-4
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.24	0.20	20
AROCLOR-1016-2	3.69	3.63	3.77	0.23	0.20	15
AROCLOR-1016-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1016-4	3.98	3.92	4.06	0.24	0.20	20
AROCLOR-1016-5	4.43	4.37	4.51	0.25	0.20	25
mean:				0.24	0.2	20
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.97	6.89	7.03	0.19	0.20	-5.0
AROCLOR-1260-2	7.23	7.16	7.30	0.19	0.20	-5.0
AROCLOR-1260-3	7.55	7.47	7.61	0.19	0.20	-5.0
AROCLOR-1260-4	7.81	7.73	7.87	0.18	0.20	-10
AROCLOR-1260-5	8.33	8.26	8.40	0.19	0.20	-5.0
mean:				0.188	0.2	-6
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.23	0.20	15
AROCLOR-1260-2	7.42	7.35	7.49	0.23	0.20	15
AROCLOR-1260-3	7.66	7.59	7.73	0.23	0.20	15
AROCLOR-1260-4	7.98	7.91	8.05	0.23	0.20	15
AROCLOR-1260-5	8.45	8.38	8.52	0.24	0.20	20
mean:				0.232	0.2	16

AECOM056 P76

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK39 Date Analyzed: 10/12/09

Lab Sample ID(PIBLK): PIBLK39 Time Analyzed: 18:13

EPA Sample No.(PEM): AR166041 Date Analyzed: 10/12/09

Lab Sample ID(PEM): AR166041 Time Analyzed: 18:46

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1016						
Column 1						
AROCLOR-1016-1	3.19	3.12	3.26	0.20	0.20	0
AROCLOR-1016-2	3.65	3.58	3.72	0.19	0.20	-5.0
AROCLOR-1016-3	3.68	3.61	3.75	0.21	0.20	5.0
AROCLOR-1016-4	3.90	3.83	3.97	0.21	0.20	5.0
AROCLOR-1016-5	4.31	4.24	4.38	0.20	0.20	0
mean:				0.202	0.2	1
Column 2						
AROCLOR-1016-1	3.23	3.16	3.30	0.25	0.20	25
AROCLOR-1016-2	3.69	3.63	3.77	0.26	0.20	30
AROCLOR-1016-3	3.71	3.65	3.79	0.24	0.20	20
AROCLOR-1016-4	3.98	3.92	4.06	0.24	0.20	20
AROCLOR-1016-5	4.43	4.37	4.51	0.23	0.20	15
mean:				0.244	0.2	22
Aroclor 1260						
Column 1						
AROCLOR-1260-1	6.97	6.89	7.03	0.16	0.20	-20
AROCLOR-1260-2	7.23	7.16	7.30	0.22	0.20	10
AROCLOR-1260-3	7.54	7.47	7.61	0.20	0.20	0
AROCLOR-1260-4	7.81	7.73	7.87	0.20	0.20	0
AROCLOR-1260-5	8.33	8.26	8.40	0.20	0.20	0
mean:				0.196	0.2	-2
Column 2						
AROCLOR-1260-1	7.12	7.05	7.19	0.22	0.20	10
AROCLOR-1260-2	7.42	7.35	7.49	0.23	0.20	15
AROCLOR-1260-3	7.66	7.59	7.73	0.23	0.20	15
AROCLOR-1260-4	7.98	7.91	8.05	0.21	0.20	5.0
AROCLOR-1260-5	8.46	8.38	8.52	0.29	0.20	45
mean:				0.236	0.2	18

AECOM056 P77

7EM

MULTICOMPONENT CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Instrument ID: HP6890-3 Init. Calib. Dates: 09/23/09 09/23/09

EPA Sample No.(PIBLK): PIBLK39 Date Analyzed: 10/12/09

Lab Sample ID(PIBLK): PIBLK39 Time Analyzed: 18:13

EPA Sample No.(PEM): AR124207 Date Analyzed: 10/13/09

Lab Sample ID(PEM): AR124207 Time Analyzed: 11:08

Column(1): RTX CLP.32 ID: .32 (mm) Column(2): RTX CLP2.32 ID: .32 (mm)

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor 1242						
Column 1						
AROCLOR-1242-1	3.19	3.12	3.26	0.26	0.20	30
AROCLOR-1242-2	3.65	3.58	3.72	0.21	0.20	5.0
AROCLOR-1242-3	3.68	3.61	3.75	0.23	0.20	15
AROCLOR-1242-4	4.31	4.24	4.38	0.22	0.20	10
AROCLOR-1242-5	4.93	4.86	5.00	0.23	0.20	15
mean:				0.23	0.2	15
Column 2						
AROCLOR-1242-1	3.23	3.16	3.30	0.26	0.20	30
AROCLOR-1242-2	3.69	3.62	3.76	0.23	0.20	15
AROCLOR-1242-3	3.71	3.65	3.79	0.26	0.20	30
AROCLOR-1242-4	4.43	4.37	4.51	0.25	0.20	25
AROCLOR-1242-5	4.97	4.97	5.11	0.25	0.20	25
mean:				0.25	0.2	25

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

SB-13 (0'-1')

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM056

Lab Sample ID: 0910783-001B Date(s) Analyzed: 10/12/09 10/12/09

Instrument ID (1): HP6890-3 Instrument ID (2): HP6890-3

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	3.18	3.12	3.26	82		
Aroclor 1242	2	3.66	3.58	3.72	150		
COLUMN 1	3	3.67	3.61	3.75	150		
	4	4.31	4.24	4.38	150		
	5					140	
	1	3.23	3.16	3.30	110		
	2	3.69	3.62	3.76	240		
COLUMN 2	3	3.71	3.65	3.79	73		
	4						
	5					140	0.0
	1						
Aroclor 1254	2	5.21	5.12	5.26	270		
COLUMN 1	3						
	4	5.83	5.74	5.88	350		
	5	6.25	6.17	6.31	140	250	
	1	5.02	4.95	5.09	170		
	2						
COLUMN 2	3						
	4	6.05	5.98	6.12	150		
	5	6.39	6.31	6.45	120	150	66.7
	1	6.97	6.89	7.03	82		
Aroclor 1260	2	7.23	7.16	7.30	85		
COLUMN 1	3	7.55	7.47	7.61	60		
	4	7.81	7.73	7.87	65		
	5	8.34	8.26	8.40	71	72	
	1	7.13	7.05	7.19	86		
	2	7.42	7.35	7.49	51		
COLUMN 2	3	7.67	7.59	7.73	62		
	4	7.98	7.91	8.05	67		
	5	8.46	8.38	8.52	79	69	4.3

RPD

50% 4

FORM XB SW8082

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Antimony				120.0	114.35	95.3	114.67	95.6
Arsenic				20.0	19.22	96.1	19.40	97.0
Beryllium				10.0	9.79	97.9	9.88	98.8
Cadmium				10.0	9.82	98.2	10.03	100.3
Chromium				20.0	17.49	87.5	17.80	89.0
Cobalt				100.0	97.74	97.7	100.73	100.7
Copper				50.0	49.62	99.2	50.19	100.4
Lead				6.0	4.51	75.2	3.73	62.1
Manganese				30.0	28.64	95.5	28.96	96.5
Nickel				80.0	76.03	95.0	77.01	96.3
Selenium				10.0	11.12	111.2	9.63	96.3
Silver				20.0	19.49	97.4	18.57	92.9
Thallium				20.0	17.58	87.9	19.13	95.6
Vanadium				100.0	96.85	96.9	100.11	100.1
Zinc				40.0	44.15	110.4	44.65	111.6

AECOM056 M34

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
TP-1 (9')S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	44.2617		4.7180	B	61.65	64.1	N	P
Arsenic		24.9229		29.1338		4.93	-85.4		P
Barium	75-125	393.4538		168.9581		246.61	91.0		P
Beryllium	75-125	6.6498		0.4673	B	6.17	100.3		P
Cadmium	75-125	6.9877		0.9655		6.17	97.7		P
Chromium	75-125	41.6609		20.2528		24.66	86.8		P
Cobalt	75-125	67.2367		5.6634	B	61.65	99.9		P
Copper		227.0974		209.2762		30.83	57.8		P
Iron		17604.6263		18692.7348		123.30	-882.5		P
Lead		334.6613		351.8582		2.47	-697.3		P
Manganese	75-125	304.2959		174.9630		61.65	209.8	N	P
Mercury	75-125	1.1241		0.7378		0.21	188.0	N	CV
Nickel	75-125	76.3847		18.3206		61.65	94.2		P
Selenium	75-125	2.3433		1.6454		1.23	56.6	N	P
Silver	75-125	5.2478		1.6589		6.17	58.2	N	P
Thallium	75-125	7.0184		1.5971		6.17	87.9		P
Vanadium	75-125	88.5018		26.9753		61.65	99.8		P
Zinc		359.5228		385.2182		61.65	-41.7		P

Comments:

AECOM056 M41

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
TP-1 (9')A

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony		154.13	B	38.26	B	120.0	96.6		P
Manganese		1486.21		1418.95		30.0	224.2		P
Selenium		22.78	B	13.34		10.0	94.4		P
Silver		34.08	B	13.45		20.0	103.1		P

Comments:

AECOM056 M42

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
TP-1 (9')

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM056

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.1 % Solids for Duplicate: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4237.0333		4537.7003		6.9		P
Antimony	7.3983	4.7180	B	4.6819	B	0.8		P
Arsenic		29.1338		16.8079		53.7	*	P
Barium		168.9581		145.1578		15.2		P
Beryllium	0.6165	0.4673	B	0.4538	B	2.9		P
Cadmium	0.6165	0.9655		0.6400		40.6		P
Calcium		8196.2009		6898.1035		17.2		P
Chromium		20.2528		18.1554		10.9		P
Cobalt	6.1652	5.6634	B	4.9359	B	13.7		P
Copper		209.2762		145.0099		36.3	*	P
Iron		18692.7348		16000.6473		15.5		P
Lead		351.8582		275.5074		24.3	*	P
Magnesium	616.5228	1488.4710		1247.8718		17.6		P
Manganese		174.9630		145.2072		18.6		P
Mercury		0.7378		0.8159		10.1		CV
Nickel	4.9322	18.3206		14.5820		22.7		P
Potassium	616.5228	663.5869		638.9420		3.8		P
Selenium	0.6165	1.6454		1.0287		46.1	*	P
Silver	1.2330	1.6589		0.7251	B	78.3		P
Sodium	616.5228	249.6387	B	227.9507	B	9.1		P
Thallium	1.2330	1.5971		1.2007	B	28.3		P
Vanadium	6.1652	26.9753		22.1492		19.6		P
Zinc		385.2182		259.2429		39.1	*	P

AECOM056 M43

TP-1(12') and DUP-3

Analyte	CRDL (mg/Kg)	5xCRDL (mg/Kg)	Original Result (mg/Kg)	Duplicate Result (mg/Kg)	RPD	Actions
Aluminum	20	100	6240	4630	30	OK; <35
Antimony	6	30	2.6	2.2	17	OK; <35
Arsenic	1	5	5.3	3.8	33	OK; <35
Barium	20	100	316	214	38	J both
Beryllium	0.5	2.5	0.42	0.29	37	OK; difference ± 2xCRDL
Cadmium	0.5	2.5	0.46	0.2	79	OK; difference ± 2xCRDL
Calcium	500	2500	6970	5500	24	OK; <35
Chromium	1	5	15.2	11.3	29	OK; <35
Cobalt	5	25	5.5	4.8	14	OK; <35
Copper	2.5	12.5	57	55.5	3	OK; <35
Iron	10	50	12300	10600	15	OK; <35
Lead	0.3	1.5	195	142	31	OK; <35
Magnesium	500	2500	2530	2330	8	OK; <35
Manganese	1.5	7.5	147	124	17	OK; <35
Mercury	0.033	0.165	0.46	0.23	67	J both
Nickel	4	20	13.3	11.5	15	OK; <35
Potassium	500	2500	992	871	13	OK; <35
Selenium	0.5	2.5	0.33	0.30 U	Not calculable	OK; difference ± 2xCRDL
Silver	1	5	0.21	0.099 U	Not calculable	OK; difference ± 2xCRDL
Sodium	500	2500	132	128	3	OK; <35
Thallium	1	5	0.40 U	0.038 U	Not calculable	OK; both ND
Vanadium	5	25	21.8	17	25	OK; <35
Zinc	2	10	282	170	50	J both

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

For the submitted sample

Lab No. : 0910783-002

ClientSample ID. : SB-13 (12'-14')

Sample Information...
Type : Soil

Origin:

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Shail Pandya

Collected : 9/28/2009 4:10:00 PM
Received : 9/30/2009 4:53:00 PM
Collected By AECOM99
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Free Cyanide	< 3.45		5	mg/Kg-dry	SW9014	10/09/2009 5:07 PM
Percent Moisture	27.6		1	wt%	D2216	10/05/2009 8:14 AM

Incorrect data entry.

Qualifiers:

E - Value above quantitation range
D - Results for Dilution
D.F. = Dilution Factor
H = Sample received/analyzed outside of analytical holding time
# = ELAP / NELAP does not offer certification for this analyte

Joann M. Slavin

Laboratory Manager

Date Reported : 11/4/2009

AECOM056 W4

H2M LABS, INC. AECOM049, 050, 056

FRCN

**All samples prepped with 20g of sample into 100mL of H_2O. Tumbled and filtered for a 1:5 dilution. -EM 10/9/09

CAL STD	ABS.	CONC (ug/L)
0	0.000	<10
10	0.023	10.0
50	0.114	49.7
100	0.230	100.4
200	0.458	199.9

$r^2 = 1.000$

Check Std
Lot #: 905702
TV: 75

Date: 10.09.09

Analyst: Erik Mendez Erik Mendez 10/9/09

CLIENT ID	LAB #	ABS.	CONV. / DIL. FACTOR	FRCN (ug/L)	Free CN (mg/kg)	COMMENTS	%TS
MB-100909		0.000		<10			
LCS-100909		0.171		74.6	0.373	TV: 0.375 99.5%	
SB-5 (16-18)	0910781-001D	0.056	x5	24.4	~~0.77~~ <0.68		73.3
SB (2-3)	-004D	0.000	x5	<10	~~<0.077~~ <0.71		70.7
	MS	0.255	x5	111.3	0.79	TV: 0.71 112%	
	DUP	0.000	x5	<10	~~<0.077~~ <0.71	RPD=N/C	
SB-13 (0-1)	0910783-001D	0.013	x5	<10	~~<0.064~~ <0.64	EM 10/9/09	~~85.4~~ 78.1
(12-14)	-002D	0.127	x5 x5	277.1	1.91		~~69.6~~ 72.4
SB-2 (10-12.2)	0910813-002D	0.071	x5	31.0	~~<0.77~~ <0.71		69.6
CCV		0.170		74.2		TV: 75 98.9%	
CCB		0.000		<10			

EM 10.09.09

AECOM056 W24

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM057

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	MSSEMI	MSVOA	WC
SB-4 (36'-38')	0911045-001	X	X	X	X
SB-4 (44'-46')	0911045-002	X	X	X	X
TP-1 (12')	0911045-003	X	X	X	X
TB-100909	0911045-004			X	
SB-2B (14-16)	0911284-001	X	X	X	X
SB-2B (37-38)	0911284-002	X	X	X	X
SB-2B (42-44)	0911284-003	X	X	X	X
TB-101609	0911284-004			X	
SB-1 (5)	0911468-001	X	X	X	X
SB-14B (20-22)	0911468-002	X	X	X	X
SB-14B (38-40)	0911468-003	X	X	X	X
SB-14B (54-56)	0911468-004	X	X	X	X
SB-16B (30-32)	0911468-005	X	X	X	X
SB-16B (44-46)	0911468-006	X	X	X	X
SB-6 (16-18)	0911495-001	X	X	X	X
SB-6 (26-28)	0911495-002	X	X	X	X
SB-6 (30-32)	0911495-003	X	X	X	X
TB-102209	0911495-004			X	
SB-12B (40-42)	0912042-001	X	X	X	X
SB-12B (48-50)	0912042-002	X	X	X	X

CLP, (Non-CLP) (Please indicate year of protocol) ASP B 2000

MTM 11/30/09

AECOM057 A3

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23617

EXTERNAL CHAIN OF CUSTODY

CLIENT:

H2M SDG NO: AECOM 056/057

PROJECT NAME/NUMBER: EQUITY

SAMPLERS: (signature)/Client: AECOM

DELIVERABLES: AS PER QUOTE

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: JENN. P.

Phone Number:

PIS/Quote #

Sample Container Description → VOC, SVOC

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. TAL Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/8/09	12:50	S	TP-1 (9')	3	X	X		X	X	0911044-001	AECOM 056
10/8/09	13:05	S	TP-1 (9') MS/MSD	3	X	X		X	X	↓ -001	↓
10/8/09	13:20	S	TP-1 (12')	3	X	X		X	X	0911045-003	AECOM 057
10/8/09		S	DUP-3	3	X	X		X	X	0911044-002	AECOM 056
10/7/09	16:00	S	SB-4 (36'-38')	3	X	X		X	X	0911045-001	AECOM 057
10/8/09	10:00	S	SB-4 (44'-46')	3	X	X		X	X	↓ -002	↓
9/28/09		W	TB	2	X					↓ -004	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Vipin	10/9/09	11:30	S. Watt	10-9-09	11.30
S. Watt	10-9-09	15.15	M. Watt	10-9-09	15:15

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill#_____
2. Ambient or chilled, Temp 1.9°C on ice
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM057 A18

AECOM057

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/9/2009 3:15:00 PM

Work Order Number 0911045

Received by MCW

Checklist completed by M. Watt (Signature) 10.9.09 (Date)

Reviewed by JSA (Initials) 10/12/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted NO Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Trip blank vials had headspace bubbles measuring 6mm and 7mm in diameter.

Corrective Action _____

AECOM057 A19

H2M LABS, INC.

23615

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: | **H2M SDG NO:** AECOM057

PROJECT NAME/NUMBER: Equity

SAMPLERS: (signature)/Client: Josh Millard, Maria Stepanova

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact: Pete Cox

Phone Number: 978-589-3000

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
101409	1200	S	SB-2B (14-16)	3	X	X		X	X	0911284-001	
101409	1600	S	SB-2B (37-38)	2	X	X		X	X	-002	
101409	1630	S	SB-2B (42-44)	3	X	X		X	X	-003	
10/16/09		W	TB-101609	2	X					-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Joshua Millard	101609	1350	S.W.A.	10-16-09	13.50
S.W.A.	10.16.09	15.55		10/16/09	15:55

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 2.1°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM057 A29

AECOM057

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/16/2009 3:55:00 PM

Work Order Number 0911284 | Received by dmc

Checklist completed by [signature] Signature 10/16/09 Date | Reviewed by JSA Initials 10/19/09 Date

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted NA Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: TB HAD SMALL HEADSPACE BUBBLE (4mm DIA.) IN ONE VIAL.

Corrective Action USE AS SPARE ONLY

AECOM057 A30

H2M LABS, INC.

23614

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM057/058

PROJECT NAME/NUMBER
EQUITY FORMER MGP
~~04090-180~~
04940-181

SAMPLERS: (signature)/Client
J. Millard / AECOM
J. Peiffer / AECOM

DELIVERABLES:
AS PER PO

TURNAROUND TIME:
STANDARD.

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

Sample Container Description →

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers ↓	TCL VOC	TCL SVOC	TAL METALS	FREE CN	PCBs (as Alcolors)	TCL PEST. + HERB.	VOC	SVOC		LAB I.D. NO.	REMARKS:
					~~ORGANIC~~							~~INORG.~~			
					~~VOA~~	~~BNA~~	~~Reach PCB~~					Metal	~~CN~~		
10/17/09	10:00	SOIL	SB-14B (20-22)	3			X	X			X	X		0911468-002	AECOM 057
10/17/09	11:30	SOIL	SB-14B (38-40)	3			X	X			X	X		↓ -003	↓
10/17/09	14:00	SOIL	SB-14B (54-56)	3			X	X			X	X		↓ -004	↓
10/18/09	1130	SOIL	SB-8 (24-26)	2	X	X	X	X	X	X				0911469-003	AECOM 058
			TRIP BLANK	2							X			↓ -004	↓
10/19/09	1400	Soil	SB-16B (30-32)	3			X	X			X	X		0911468-005	AECOM 057
10/19/09	1400	Soil	SB-16B (44-46)	2			X	X			X	X		↓ -006	↓
10/21/09	930	Soil	SB-3 (46-48)	2	X	X	X	X	X	X				0911469-002	AECOM 058
10/20/09	1600	Soil	SB-3 (36-38)	2	X	X	X	X	X	X				↓ -001	↓
10/20/09	1045	Soil	SB-1 (5)	3			X	X			X	X		0911468-001	AECOM 057

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10/21/09	15:42	S. West	10-21-09	15:41
S. West	10-21-09	17:32	[signature]	10/21/09	17:32

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 5.5°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM057-A58

H2M LABS, INC.

AECOM057

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/21/2009 5:32:00 PM

Work Order Number 0911468

Received by dmc

Checklist completed by [signature] 10/22/09 (Signature / Date)

Reviewed by JSA 10/28/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM057 A39

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23611

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM057

PROJECT NAME/NUMBER: EQUITY FORMER M&P 04944-187

SAMPLERS: (signature)/Client: Jennifer Pfeiffer / AECOM

DELIVERABLES: As Per PO.

TURNAROUND TIME: STANDARD.

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	VOC	SVOC	TAL Metals	Free CN	PCB (as Aroclors)	TCL Pest + Herb	Petroleum Fingerprint		Metal	CN	LAB I.D. NO.	REMARKS:
			Sample Container Description →		VOC	SVOC	TAL Metals	Free CN	PCB (as Aroclors)	TCL Pest + Herb	Petroleum Fingerprint					
					ANALYSIS REQUESTED											
					ORGANIC								INORG.			
					VOA	BNA	Pest/PCB									
10/21/09	1030	SOIL	SB6 (16-18)		X	X	X	X			X				09I1495-001	AECOM057
10/21/09	1106	SOIL	SB6 (26-28)		X	X	X	X							-002	↓
10/21/09	1126	SOIL	SB6 (30-32)		X	X	X	X							-003	
			TRIP BLANK		X										-004	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/22/09	1258		10/22/09	1258
	10/22/09	1440		10/22/09	16:40

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ____
2. Ambient or chilled Temp 3.1
3. Received in good condition: (Y) or N
4. Properly preserved (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM057 A47

H2M LABS, INC.

AECOM057

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/22/2009 4:40:00 PM

Work Order Number 0911495 | Received by dmc

Checklist completed by [signature] Signature 10/22/09 Date | Reviewed by JSA Initials 10/28/09 Date

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM057 A48

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23609

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM057/058

PROJECT NAME/NUMBER
EQUITY FORMER MGP
04940-181-300

SAMPLERS: (signature)/Client
JPFEIFFER/AECOM

DELIVERABLES:
AS PER PO

TURNAROUND TIME:
STANDARD

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: PEST/PCB	Free CN	Total CN	TCL VOC/VOC	TCL SVOC/PCBs/TCL PEST/TCL Herb	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
11/3/09	0930	SOIL	SB-12B (40-42)	3	X	X	X	X						0912042-001	
11/3/09	1115	SOIL	SB-12B (48-50)	3	X	X	X	X						↓ -002	
~~11/4/09~~ 11/3/09	-	WATER	TRIP BLANK	3	X									0912043-002	
														↓	
11/4/09	0800	WATER	FB-110409	11		X	X		X	X	X			↓ -001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/4/09	0934	S.Wad	11-4-09	14.36
S.Wad	11-4-09	16.25		11/4/09	16:25

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 8.6°C ON ICE
3. Received in good condition (Y) or N
4. Properly preserved (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM057/A56

H2M LABS, INC.

AECOM057

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 11/4/2009

Work Order Number 0912042

Received by dmc

Checklist completed by _____ 11/6/09 (Signature / Date)

Reviewed by _____ 11/11/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: SAMPLES RECEIVED AT 8.6°C ON ICE.

Corrective Action _____

AECOM057 A57

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

SDG: AECOM057

Laboratory Samp ID	Client Sample ID	Matrix	Analytical Protocol	Date Collected	DateRecd at Lab	Date Extracted	Date Analyzed	Extraction Method	DF	Level	Aux Cleanup
0911045-001A	SB-4(36-38)	Soil	ASPB 8260	07-Oct-09	09-Oct-09		15-Oct-09		1	LOW	
0911045-002A	SB-4(44-46)	Soil	ASPB 8260	08-Oct-09	09-Oct-09		14-Oct-09		1	LOW	
0911045-003A	TP-1(12)	Soil	ASPB 8260	08-Oct-09	09-Oct-09		15-Oct-09		1	LOW	
0911045-004A	TB100909	Aqueous	ASPB 8260	28-Sep-09	09-Oct-09		15-Oct-09		1	LOW	
0911284-001A	SB-2B(14-16)	Soil	ASPB 8260	14-Oct-09	16-Oct-09		23-Oct-09		1	LOW	
0911284-001ADL	SB-2B(14-16)DL	Soil	ASPB 8260	14-Oct-09	16-Oct-09		26-Oct-09		2	MED	
0911284-002A	SB-2B(37-38)	Soil	ASPB 8260	14-Oct-09	16-Oct-09		23-Oct-09		5	LOW	
0911284-002ADL	SB-2B(37-38)DL	Soil	ASPB 8260	14-Oct-09	16-Oct-09		26-Oct-09		20	MED	
0911284-003A	SB-2B(42-44)	Soil	ASPB 8260	14-Oct-09	16-Oct-09		23-Oct-09		1	LOW	
0911284-004A	TB101609	Aqueous	ASPB 8260	12-Oct-09	16-Oct-09		23-Oct-09		1	LOW	
0911468-001A	SB-1(5)	Soil	ASPB 8260	20-Oct-09	21-Oct-09		30-Oct-09		1	LOW	
0911468-002A	SB-14B(20-22)	Soil	ASPB 8260	17-Oct-09	21-Oct-09		23-Oct-09		1	LOW	
0911468-002ADL	SB-14B(20-22)DL	Soil	ASPB 8260	17-Oct-09	21-Oct-09		26-Oct-09		10	MED	
0911468-003A	SB-14B(38-40)	Soil	ASPB 8260	17-Oct-09	21-Oct-09		24-Oct-09		5	LOW	
0911468-003ADL	SB-14B(38-40)DL	Soil	ASPB 8260	17-Oct-09	21-Oct-09		26-Oct-09		50	MED	
0911468-004A	SB-14B(54-56)	Soil	ASPB 8260	17-Oct-09	21-Oct-09		30-Oct-09		1	LOW	
0911468-005A	SB-16B(30-32)	Soil	ASPB 8260	19-Oct-09	21-Oct-09		24-Oct-09		5	LOW	
0911468-005ADL	SB-16B(30-32)DL	Soil	ASPB 8260	19-Oct-09	21-Oct-09		26-Oct-09		5	MED	
0911468-006A	SB-16B(44-46)	Soil	ASPB 8260	19-Oct-09	21-Oct-09		23-Oct-09		1	LOW	
0911495-001A	SB-6(16-18)	Soil	ASPB 8260	21-Oct-09	22-Oct-09		24-Oct-09		1	LOW	
0911495-002A	SB-6(26-28)	Soil	ASPB 8260	21-Oct-09	22-Oct-09		23-Oct-09		1	LOW	
0911495-003A	SB-6(30-32)	Soil	ASPB 8260	21-Oct-09	22-Oct-09		23-Oct-09		1	LOW	
0911495-004A	TB102209	Aqueous	ASPB 8260	21-Oct-09	22-Oct-09		23-Oct-09		1	LOW	
0912042-001A	SB-12B(40-42)	Soil	ASPB 8260	03-Nov-09	04-Nov-09		11-Nov-09		1	LOW	
0912042-001ADL	SB-12B(40-42)DL	Soil	ASPB 8260	03-Nov-09	04-Nov-09		11-Nov-09		10	LOW	
0912042-002A	SB-12B(48-50)	Soil	ASPB 8260	03-Nov-09	04-Nov-09		11-Nov-09		1	LOW	

AECOM057

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 10/9/2009 3:15:00 PM

Work Order Number 0911045 | Received by MCW

Checklist completed by M. Watt (Signature) 10.9.09 (Date) | Reviewed by JSA (Initials) 10/2/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted NO Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Trip blank vials had headspace bubbles measuring 6mm and 7mm in diameter.

Corrective Action _____

AECOM057 A19

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK101409	93	105	101		0
02	LFB101409	91	98	106		0
03	SB-4(44-46)	90	102	103		0
04	SB-4(36-38)	94	98	104		0
05	TP-1(12)	92	99	105		0
06	VBLK102309	97	100	102		0
07	SB-2B(14-16)	103	100	97		0
08	SB-2B(37-38)	72	110	156 *		1
09	SB-14B(20-22)	46 *	118	81		1
10	SB-16B(44-46)	98	95	103		0
11	SB-6(30-32)	97	96	103		0
12	SB-6(26-28)	95	96	105		0
13	SB-2B(42-44)	98	98	101		0
14	SB-6(16-18)	99	98	102		0
15	SB-14B(38-40)	42 *	80 *	101		2
16	SB-16B(30-32)	104	97	92		0
17	VBLK103009	97	87	111		0
18	SB-1(5)	101	86	110		0
19	SB-14B(54-56)	100	86	114 *		1
20	VBLK111109	107	100	101		0
21	SB-12B(48-50)	105	101	100		0
22	SB-12B(40-42)	110	103	94		0
23	SB-12B(40-42)DL	101	95	96		0

			QC Limit
SMC1	DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC2	TOL	= Toluene-d8	(84-138)
SMC3	BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB101409 Level: (low/med) LOW

Column ID Rtx-624 Column Diam .18

Inst. ID HP5972-2 Init. Calib. Date(s): 10/09/09 12:30

Analysis Date: 10/14/09 14:58 10/09/09 15:01

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	61	122	33-149
Dichlorodifluoromethane	50	0	55	110	50-150
Bromomethane	50	0	57	114	58-144
Vinyl chloride	50	0	53	105	20-164
Chloroethane	50	0	52	104	33-153
Methylene chloride	50	13 CB 11/25/09	51	103	46-157
Acetone	50	0	68	136	50-187
Trichlorofluoromethane	50	0	53	105	65-145
1,1-Dichloroethene	50	0	52	104	65-142
Carbon disulfide	50	0	53	106	52-143
1,1,2-Trichloro-1,2,2-trifluoroethane	50	0	46	93	32-186
1,1-Dichloroethane	50	0	57	114	67-141
Chloroform	50	0	57	115	66-140
1,2-Dichloroethane	50	0	58	117	65-147
Methyl Acetate	50	0	63	126	60-140
2-Butanone	50	0	68	135	30-226
1,1,1-Trichloroethane	50	0	55	109	78-127
trans-1,2-Dichloroethene	50	0	55	110	57-150
Carbon tetrachloride	50	0	53	106	70-136
Methyl tert-butyl ether	50	0	52	104	78-140
Bromodichloromethane	50	0	62	123	78-137
1,2-Dichloropropane	50	0	59	118	81-132
cis-1,2-Dichloroethene	50	0	56	112	57-150
cis-1,3-Dichloropropene	50	0	61	123	78-131
Trichloroethene	50	0	60	121	72-145
Dibromochloromethane	50	0	69	137*	82-136
1,1,2-Trichloroethane	50	0	66	131	80-139
Benzene	50	0	57	114	71-142
Cyclohexane	50	0	50	99	60-140
trans-1,3-Dichloropropene	50	0	65	129	59-147

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 49 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB101409 Level: (low/med) LOW

Column ID Rtx-624 Column Diam .18

Inst. ID HP5972-2 Init. Calib. Date(s): 10/09/09 12:30

Analysis Date: 10/14/09 14:58 10/09/09 15:01

Bromoform	50	0	73	146*	81-142
4-Methyl-2-pentanone	50	0	66	132	64-170
2-Hexanone	50	0	69	138	59-163
Tetrachloroethene	50	0	56	113	67-144
1,1,2,2-Tetrachloroethane	50	0	64	129	72-152
Methylcyclohexane	50	0	54	107	60-140
Toluene	50	0	57	115	83-129
Chlorobenzene	50	0	60	121	85-128
Ethylbenzene	50	0	59	119	80-129
Styrene	50	0	63	126	85-128
m,p-Xylene	100	0	120	121	79-133
o-Xylene	50	0	62	125	79-133
1,2-Dibromoethane	50	0	62	124*	75-120
Isopropylbenzene	50	0	62	123	60-140
1,3-Dichlorobenzene	50	0	65	129	57-162
1,4-Dichlorobenzene	50	0	65	131	57-179
1,2-Dichlorobenzene	50	0	65	130	55-172
1,2-Dibromo-3-chloropropane	50	0	73	146*	58-120
1,2,4-Trichlorobenzene	50	0	66	133	60-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 49 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB102609M Level: (low/med) MED

Column ID ZB-624 Column Diam .18

Inst. ID HP5971

Analysis Date: 10/26/09 17:50

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	6300	0	5600	90	33-149
Dichlorodifluoromethane	6300	0	4700	75	50-150
Bromomethane	6300	0	5700	92	58-144
Vinyl chloride	6300	0	5900	94	20-164
Chloroethane	6300	0	6000	96	33-153
Methylene chloride	6300	~~230~~	7200	115	46-157
Acetone	6300	0	6800	108	50-187
Trichlorofluoromethane	6300	0	6100	98	65-145
1,1-Dichloroethene	6300	0	7400	119	65-142
Carbon disulfide	6300	0	6700	107	52-143
1,1,2-Trichloro-1,2,2-trifluoroethane	6300	0	6000	96	32-186
1,1-Dichloroethane	6300	0	7200	115	67-141
Chloroform	6300	0	7000	112	68-140
1,2-Dichloroethane	6300	0	6700	108	65-147
Methyl Acetate	6300	0	5700	91	60-140
2-Butanone	6300	~~440~~	6600	106	30-226
1,1,1-Trichloroethane	6300	0	8000	128*	78-127
trans-1,2-Dichloroethene	6300	0	7300	116	57-150
Carbon tetrachloride	6300	0	7200	115	70-136
Methyl tert-butyl ether	6300	0	6600	106	78-140
Bromodichloromethane	6300	0	6800	109	78-137
1,2-Dichloropropane	6300	0	7000	112	81-132
cis-1,2-Dichloroethene	6300	0	7400	118	57-150
cis-1,3-Dichloropropene	6300	0	6800	109	78-131
Trichloroethene	6300	0	8100	129	72-145
Dibromochloromethane	6300	0	7400	119	82-136
1,1,2-Trichloroethane	6300	0	7200	115	80-139
Benzene	6300	0	6500	104	71-142
Cyclohexane	6300	0	5300	85	60-140
trans-1,3-Dichloropropene	6300	0	6700	108	59-147

11/25/09

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Lab File ID (Standard): 09\G4029.D Date Analyzed: 11/11/09

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 8:28

Instrument ID: HP5972-2 Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	38713	3.96	219097	4.69	253863	6.86
	UPPER LIMIT	77426	4.46	438194	5.19	507726	7.36
	LOWER LIMIT	19357	3.46	109549	4.19	126932	6.36
	EPA SAMPLE						
01	VBLK111109	37621	3.95	222491	4.69	257723	6.86
02	SB-12B(48-50)	39474	3.95	230236	4.68	261367	6.85
03	SB-12B(40-42)	14648*	3.95	76871*	4.68	86623*	6.86
04	SB-12B(40-42)DL	39400	3.95	212503	4.68	263749	6.85

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	R ²
Chloromethane	2.9866490	2.8574809	2.8758224	2.6556806	2.7426660	2.3733170	2.749	7.9	
Dichlorodifluoromethane	1.8671908	1.8342235	1.8225512	1.6733094	1.7407128	1.5781005	1.753	6.3	
Bromomethane *	1.196528	1.2928470	1.2563962	1.2915723	1.4240252	1.2917412	1.292	5.8	*
Vinyl chloride *	2.2245144	2.3668109	2.1874086	2.1138209	2.2399388	1.9137812	2.174	7.0	*
Chloroethane	1.4051613	1.5955649	1.4784357	1.4654914	1.5158104	1.3046849	1.461	6.8	
Methylene chloride	9.3231093	6.1958285	4.0524488	2.8797338	2.6439891	2.2020925	4.550	60.3	
Acetone	1.3308162	0.8914205	0.7254203	0.6568651	0.6876612	0.6374649	0.822	32.3	
Trichlorofluoromethane	1.8909346	2.3669799	2.2991594	2.2628297	2.3767045	2.0646915	2.210	8.7	
1,1-Dichloroethene *	1.9345296	2.0443175	1.8991228	1.8849598	1.9759343	1.7187033	1.910	5.8	*
Carbon disulfide	6.9366704	7.4068690	7.0022844	6.8984775	7.2073782	6.2595778	6.952	5.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,1-Dichloroethane *	4.4054338	4.6665202	4.3943713	4.3201059	4.5457913	4.0543474	4.398	4.8	*
1,2-Dichloroethene (total)	2.3669768	2.5645663	2.3941886	2.383392	2.4954117	2.2345705	2.407	4.7	
Chloroform *	3.8729516	4.0908323	3.9502924	3.8599101	4.0162158	3.6371456	3.905	4.0	*
Freon-113	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497	1.755	6.9	
1,2-Dichloroethane *	2.5257872	2.8694814	2.7324561	2.6977668	2.8222525	2.631627	2.713	4.6	*
Methyl Acetate	1.8126971	1.9488202	1.8125	1.7032714	1.8156372	1.6971941	1.798	5.1	
2-Butanone	1.5277724	1.3739774	1.2682749	1.1467791	1.2589187	1.1650126	1.290	11.0	
1,1,1-Trichloroethane *	0.550347	0.6198278	0.5877442	0.580825	0.6120924	0.5503538	0.584	5.1	*
trans-1,2-Dichloroethene	2.1665175	2.4420256	2.2755848	2.2518900	2.3721162	2.1147426	2.270	5.4	
Carbon tetrachloride *	0.4062679	0.4541976	0.4444585	0.4441292	0.4773440	0.4336803	0.443	5.3	*
Methyl tert-butyl ether	5.1204702	6.1819688	5.5594846	5.6635543	6.0415715	5.5813843	5.691	6.7	
Bromodichloromethane *	0.4835894	0.5289404	0.5084348	0.5089978	0.5417726	0.505834	0.513	3.9	*

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Dates: 11/4/2009 11/4/2009

Heated Purge: (Y/N) Y Calibration Times: 18:26 21:04

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3798.D VSTD010= G3799.D VSTD020= G3800.D VSTD050= G3801.D VSTD100= G3802.D

VSTD200= G3803.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
Bromochloromethane	1	1	1	1	1	1					1.000	0.0	
Chloromethane	3.6662266	3.05436	3.1887477	2.6970434	2.927075	2.7011931					3.039	12.0	
Dichlorodifluoromethane	2.3291531	2.0866070	2.2817283	1.9704101	2.0778671	1.893857					2.107	8.1	
Bromomethane *	1.3373274	1.5105554	1.5566949	1.3817835	1.5052495	1.4057720					1.450	6.0	*
Vinyl chloride *	2.2400487	2.4028148	2.453745	2.1362423	2.2864507	2.1027086					2.270	6.2	*
Chloroethane	1.4926889	1.5786477	1.6022688	1.3880544	1.5030149	1.3599453					1.487	6.6	
Methylene chloride	6.4112002	4.464485	3.9485188	2.6814974	2.5148144	2.1623002					3.697	43.3	
Acetone	1.345197	0.8361231	0.8303611	0.6039580	0.6861669	0.5942063					0.816	34.3	
Trichlorofluoromethane	2.7117181	2.8101159	2.9184005	2.6838102	2.9674155	2.7590702					2.808	4.0	
1,1-Dichloroethene *	2.2418258	2.1507139	2.2301481	1.9684311	2.1281154	1.9505062					2.112	6.0	*
Carbon disulfide	7.6688160	7.6033340	7.9105984	6.9796614	7.6273942	7.0011088					7.465	5.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7452782	1.9470064	2.1062441	1.8664044	2.1081934	1.9451139					1.953	7.2	
1,1-Dichloroethane *	4.2643176	4.2254788	4.3700773	3.8744158	4.2722984	3.9339398					4.157	4.9	*
1,2-Dichloroethene (total)	2.6095400	2.6055544	2.7090454	2.4062351	2.5797115	2.3823475					2.549	5.0	
Chloroform *	4.2155768	4.0905468	4.2072249	3.8357415	4.1554505	3.8110681					4.053	4.5	*
1,2-Dichloroethane *	2.8163079	2.814329	2.9485560	2.7234621	2.8925041	2.6588170					2.809	3.8	*
Methyl Acetate	2.6535845	2.3432625	2.463157	2.2692179	2.3989714	2.0598944					2.365	8.4	
2-Butanone	1.7384240	1.1224978	1.2418264	1.0951359	1.1673682	1.0118718					1.230	21.2	
1,1,1-Trichloroethane *	0.5997159	0.5412165	0.6272894	0.5738284	0.6227184	0.5707159					0.589	5.7	*
trans-1,2-Dichloroethene	2.3969334	2.4425543	2.5257592	2.2787077	2.4515961	2.2766209					2.395	4.2	
Carbon tetrachloride *	0.4921295	0.4665281	0.5545943	0.5168456	0.5539228	0.5150517					0.517	6.7	*
Methyl tert-butyl ether	5.5308184	5.7630207	5.9970526	5.5044111	5.9326791	5.4150693					5.691	4.3	
Bromodichloromethane *	0.6198753	0.5345827	0.6087507	0.5603188	0.5974769	0.5463936					0.578	6.1	*

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 10/14/09 Time: 13:57

Lab File ID: 09\G3602.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.071		11.7	
Dichlorodifluoromethane	1.753	1.664		-5.1	
Bromomethane	1.292	1.399	0.100	8.3	25.0
Vinyl chloride	2.174	2.122	0.100	-2.4	25.0
Chloroethane	1.461	1.449		-0.8	
Methylene chloride	4.650	3.196		-29.8	
Acetone	0.822	0.788		-4.1	
Trichlorofluoromethane	2.210	2.188		-1.0	
1,1-Dichloroethene	1.910	1.676	0.100	-17.5	25.0
Carbon disulfide	6.952	5.596		-19.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.510		-14.0	
1,1-Dichloroethane	4.398	4.377	0.200	-0.5	25.0
Chloroform	3.905	4.127	0.200	5.7	25.0
1,2-Dichloroethane	2.713	3.200	0.100	17.9	25.0
Methyl Acetate	1.798	1.888		5.0	
2-Butanone	1.290	1.404		8.8	
1,1,1-Trichloroethane	0.684	0.487	0.100	-16.5	25.0
trans-1,2-Dichloroethene	2.270	2.109		-7.1	
Carbon tetrachloride	0.443	0.357	0.100	-19.5	25.0
Methyl tert-butyl ether	5.691	6.220		9.3	
Bromodichloromethane	0.513	0.514	0.200	0.2	25.0
1,2-Dichloropropane	0.428	0.430		0.5	
cis-1,2-Dichloroethene	2.539	2.558		0.7	
cis-1,3-Dichloropropene	0.685	0.686	0.200	0.1	25.0
Trichloroethene	0.398	0.359	0.300	-9.9	25.0
Dibromochloromethane	0.404	0.425	0.100	5.2	25.0
1,1,2-Trichloroethane	0.353	0.374	0.100	6.0	25.0
Benzene	1.388	1.299	0.500	-6.4	25.0
Cyclohexane	0.586	0.490		-16.4	
trans-1,3-Dichloropropene	0.638	0.657	0.100	3.0	25.0
Bromoform	0.263	0.289	0.100	9.7	25.0
4-Methyl-2-pentanone	0.469	0.382		-18.6	
2-Hexanone	0.373	0.312		-16.4	
Tetrachloroethene	0.274	0.209	0.200	-23.7	25.0
1,1,2,2-Tetrachloroethane	0.517	0.618	0.500	0.2	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V305

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 10/14/09 Time: 13:57

Lab File ID: 09\G3602.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.385		-3.9	
Toluene	1.476	1.099	0.400	-25.5	25.0
Chlorobenzene	1.070	0.882	0.500	-17.6	25.0
Ethylbenzene	0.491	0.406	0.100	-17.3	25.0
Styrene	1.123	0.971	0.300	-13.6	25.0
m,p-Xylene	0.612	0.515	0.300	-15.8	25.0
o-Xylene	0.605	0.518	0.300	-14.3	25.0
1,2-Dibromoethane	0.402	0.361		-10.2	
Isopropylbenzene	1.486	1.368		-7.9	
1,3-Dichlorobenzene	0.723	0.696		-3.8	
1,4-Dichlorobenzene	0.744	0.714		-4.0	
1,2-Dichlorobenzene	0.685	0.663		-3.2	
1,2-Dibromo-3-chloropropane	0.088	0.081		-8.4	
1,2,4-Trichlorobenzene	0.382	0.431		12.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V306

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5971 Calibration Date: 10/15/09 Time: 8:55

Lab File ID: A\A66889.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	2.986		0.4	
Dichlorodifluoromethane	2.062	1.402		-32.0	
Bromomethane	1.121	0.777	0.100	-30.7	25.0
Vinyl chloride	2.606	2.168	0.100	-16.8	25.0
Chloroethane	1.329	1.214		-8.7	
Methylene chloride	2.687	2.882		7.2	
Acetone	0.698	0.591		-15.3	
Trichlorofluoromethane	2.198	2.041		-7.1	
1,1-Dichloroethene	1.934	1.946	0.100	0.6	25.0
Carbon disulfide	8.200	7.808		-4.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	1.785		-7.6	
1,1-Dichloroethane	4.669	5.190	0.200	11.2	25.0
Chloroform	4.180	4.542	0.200	8.7	25.0
1,2-Dichloroethane	3.142	3.345	0.100	6.4	25.0
Methyl Acetate	2.540	2.177		-14.3	
2-Butanone	1.371	1.216		-11.3	
1,1,1-Trichloroethane	0.561	0.586	0.100	4.4	25.0
trans-1,2-Dichloroethene	2.382	2.512		5.5	
Carbon tetrachloride	0.444	0.408	0.100	-8.1	25.0
Methyl tert-butyl ether	6.769	6.848		1.2	
Bromodichloromethane	0.611	0.610	0.200	-0.1	25.0
1,2-Dichloropropane	0.516	0.533		3.4	
cis-1,2-Dichloroethene	2.757	3.023		9.7	
cis-1,3-Dichloropropene	0.811	0.846	0.200	4.3	25.0
Trichloroethene	0.460	0.472	0.300	-1.7	25.0
Dibromochloromethane	0.504	0.540	0.100	7.2	25.0
1,1,2-Trichloroethane	0.439	0.431	0.100	-1.8	25.0
Benzene	1.856	1.688	0.500	-9.0	25.0
Cyclohexane	0.721	0.638		-11.5	
trans-1,3-Dichloropropene	0.732	0.752	0.100	2.8	25.0
Bromoform	0.360	0.370	0.100	2.9	25.0
4-Methyl-2-pentanone	0.650	0.530		-18.4	
2-Hexanone	0.401	0.342		-14.8	
Tetrachloroethene	0.384	0.373	0.200	-2.9	25.0
1,1,2,2-Tetrachloroethane	0.607	0.588	0.500	-3.1	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V311

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 10/23/09 Time: 16:37

Lab File ID: 09\G3661.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.004		9.3	
Dichlorodifluoromethane	1.753	1.708		-2.5	
Bromomethane	1.292	1.439	0.100	11.4	25.0
Vinyl chloride	2.174	1.792	0.100	-17.6	25.0
Chloroethane	1.461	1.206		-17.4	
Methylene chloride	4.650	2.552		43.9	
Acetone	0.822	0.968		17.8	
Trichlorofluoromethane	2.210	2.192		-0.8	
1,1-Dichloroethene	1.910	1.661	0.100	-13.0	25.0
Carbon disulfide	6.952	5.612		-19.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.433		-18.4	
1,1-Dichloroethane	4.398	4.108	0.200	-6.6	25.0
Chloroform	3.906	3.844	0.200	-1.6	25.0
1,2-Dichloroethane	2.713	2.913	0.100	7.4	25.0
Methyl Acetate	1.798	2.196		22.1	
2-Butanone	1.290	1.548		20.0	
1,1,1-Trichloroethane	0.584	0.480	0.100	-17.7	25.0
trans-1,2-Dichloroethene	2.270	2.002		-11.8	
Carbon tetrachloride	0.443	0.373	0.100	-15.9	25.0
Methyl tert-butyl ether	5.691	5.179		-9.0	
Bromodichloromethane	0.513	0.505	0.200	-1.5	25.0
1,2-Dichloropropane	0.428	0.415		-3.0	
cis-1,2-Dichloroethene	2.539	2.385		-6.1	
cis-1,3-Dichloropropene	0.685	0.705	0.200	2.9	25.0
Trichloroethene	0.398	0.367	0.300	-7.9	25.0
Dibromochloromethane	0.404	0.471	0.100	16.6	25.0
1,1,2-Trichloroethane	0.353	0.397	0.100	12.6	25.0
Benzene	1.388	1.286	0.500	-7.4	25.0
Cyclohexane	0.586	0.590		0.7	
trans-1,3-Dichloropropene	0.638	0.698	0.100	9.5	25.0
Bromoform	0.263	0.359	0.100	36.3	25.0
4-Methyl-2-pentanone	0.469	0.482		2.8	
2-Hexanone	0.373	0.400		7.2	
Tetrachloroethene	0.274	0.231	0.200	-15.7	25.0
1,1,2,2-Tetrachloroethane	0.517	0.560	0.500	8.3	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V323

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 10/30/09 Time: 19:54

Lab File ID: 09\G3725.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	1.753		-36.2	
Dichlorodifluoromethane	1.753	1.095		-37.5	
Bromomethane	1.292	1.185	0.100	-8.3	25.0
Vinyl chloride	2.174	1.462	0.100	-32.8	25.0
Chloroethane	1.461	1.151		-21.2	
Methylene chloride	4.550	2.311		-49.2	
Acetone	0.822	0.688		-16.3	
Trichlorofluoromethane	2.210	1.630		-26.3	
1,1-Dichloroethene	1.910	1.467	0.100	-23.2	25.0
Carbon disulfide	6.952	5.169		-25.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.444		-17.7	
1,1-Dichloroethane	4.398	3.533	0.200	-19.7	25.0
Chloroform	3.905	3.393	0.200	-13.1	25.0
1,2-Dichloroethane	2.713	2.836	0.100	4.6	25.0
Methyl Acetate	1.798	2.020		12.3	
2-Butanone	1.290	1.243		-3.7	
1,1,1-Trichloroethane	0.584	0.493	0.100	-15.5	25.0
trans-1,2-Dichloroethene	2.270	1.879		-17.2	
Carbon tetrachloride	0.443	0.376	0.100	-15.2	25.0
Methyl tert-butyl ether	5.691	6.591		15.8	
Bromodichloromethane	0.513	0.501	0.200	-2.3	25.0
1,2-Dichloropropane	0.428	0.387		-9.5	
cis-1,2-Dichloroethene	2.539	2.259		-11.0	
cis-1,3-Dichloropropene	0.685	0.649	0.200	-5.3	25.0
Trichloroethene	0.398	0.343	0.300	-13.9	25.0
Dibromochloromethane	0.404	0.445	0.100	10.1	25.0
1,1,2-Trichloroethane	0.353	0.376	0.100	6.6	25.0
Benzene	1.388	1.230	0.500	-11.4	25.0
Cyclohexane	0.586	0.452		-22.9	
trans-1,3-Dichloropropene	0.638	0.643	0.100	0.8	25.0
Bromoform	0.263	0.312	0.100	18.4	25.0
4-Methyl-2-pentanone	0.469	0.545		16.2	
2-Hexanone	0.373	0.403		8.0	
Tetrachloroethene	0.274	0.261	0.200	-4.7	25.0
1,1,2,2-Tetrachloroethane	0.517	0.606	0.500	17.2	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V335

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 10/30/09 Time: 19:54

Lab File ID: 09\G3725.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.383		-4.4	
Toluene	1.476	1.361	0.400	-7.8	25.0
Chlorobenzene	1.070	1.014	0.500	-5.2	25.0
Ethylbenzene	0.491	0.443	0.100	-9.8	25.0
Styrene	1.123	1.025	0.300	-8.8	25.0
m,p-Xylene	0.612	0.550	0.300	-10.1	25.0
o-Xylene	0.605	0.557	0.300	-7.9	25.0
1,2-Dibromoethane	0.402	0.479		19.2	
Isopropylbenzene	1.486	1.410		-5.1	
1,3-Dichlorobenzene	0.723	0.745		3.0	
1,4-Dichlorobenzene	0.744	0.768		3.3	
1,2-Dichlorobenzene	0.685	0.734		7.2	
1,2-Dibromo-3-chloropropane	0.088	0.105		18.8	
1,2,4-Trichlorobenzene	0.382	0.484		(26.7)	

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V336

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972-2 Calibration Date: 11/11/09 Time: 8:28

Lab File ID: 09\G4029.D Init. Calib. Date(s): 11/04/09 11/04/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:26 21:04

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	3.039	3.301		8.8	
Dichlorodifluoromethane	2.107	1.874		-11.0	
Bromomethane	1.450	1.705	0.100	17.6	25.0
Vinyl chloride	2.270	2.373	0.100	4.5	25.0
Chloroethane	1.487	1.684		13.2	
Methylene chloride	3.697	3.103		-16.1	
Acetone	0.816	0.855		4.8	
Trichlorofluoromethane	2.808	2.839		1.1	
1,1-Dichloroethene	2.112	2.587	0.100	22.5	25.0
Carbon disulfide	7.465	8.973		20.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.953	1.807		-7.5	
1,1-Dichloroethane	4.157	4.671	0.200	12.4	25.0
Chloroform	4.053	4.602	0.200	13.6	25.0
1,2-Dichloroethane	2.809	3.007	0.100	7.0	25.0
Methyl Acetate	2.365	1.882		-20.4	
2-Butanone	1.230	1.425		15.9	
1,1,1-Trichloroethane	0.589	0.635	0.100	7.8	25.0
trans-1,2-Dichloroethene	2.395	3.039		26.9	
Carbon tetrachloride	0.517	0.550	0.100	6.5	25.0
Methyl tert-butyl ether	5.691	6.149		8.1	
Bromodichloromethane	0.578	0.620	0.200	7.3	25.0
1,2-Dichloropropane	0.424	0.456		7.6	
cis-1,2-Dichloroethene	2.692	3.352		24.5	
cis-1,3-Dichloropropene	0.696	0.778	0.200	11.8	25.0
Trichloroethene	0.438	0.536	0.300	22.5	25.0
Dibromochloromethane	0.448	0.516	0.100	15.2	25.0
1,1,2-Trichloroethane	0.362	0.401	0.100	10.8	25.0
Benzene	1.617	1.830	0.500	13.2	25.0
Cyclohexane	0.713	0.600		-15.9	
trans-1,3-Dichloropropene	0.667	0.736	0.100	10.3	25.0
Bromoform	0.326	0.387	0.100	18.6	25.0
4-Methyl-2-pentanone	0.446	0.439		-1.6	
2-Hexanone	0.346	0.362		4.8	
Tetrachloroethene	0.342	0.355	0.200	3.8	25.0
1,1,2,2-Tetrachloroethane	0.529	0.501	0.500	-5.4	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 V341

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK101409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: VBLK101409

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3603.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/14/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	13	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V358

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102309

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3662.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	5	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V367

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK102609M

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102609M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67003.D

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	620	U
75-71-8	Dichlorodifluoromethane	620	U
74-83-9	Bromomethane	620	U
75-01-4	Vinyl chloride	620	U
75-00-3	Chloroethane	620	U
75-09-2	Methylene chloride	230	J
67-64-1	Acetone	3100	U
75-69-4	Trichlorofluoromethane	620	U
75-35-4	1,1-Dichloroethene	620	U
75-15-0	Carbon disulfide	620	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	620	U
75-34-3	1,1-Dichloroethane	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
79-20-9	Methyl Acetate	620	U
78-93-3	2-Butanone	410	J
71-55-6	1,1,1-Trichloroethane	620	U
156-60-5	trans-1,2-Dichloroethene	620	U
56-23-5	Carbon tetrachloride	620	U
1634-04-4	Methyl tert-butyl ether	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
156-59-2	cis-1,2-Dichloroethene	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
110-82-7	Cyclohexane	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	3100	U
591-78-6	2-Hexanone	3100	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U

AECOM057 V376

1A

EPA SAMPLE NO.

VBLK103009

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: VBLK103009

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3729.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

(µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V381

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111109

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: VBLK111109

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4030.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/11/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	8	
67-64-1	Acetone	4	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM057 V386

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-33723

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: MB-33723

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50483.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1´-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM057 B500

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-33723

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: MB-33723

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50483.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 11/10/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 11/13/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	120	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3´-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM057 B501

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-33426

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: MB-33426

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50021.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2´-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1´-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM057 B495

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-33426

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Matrix: (soil/water) SOIL Lab Sample ID: MB-33426

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50021.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	~~100~~ 130	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

NC 11/23/09

(1) Cannot be separated from Diphenylamine

AECOM057 B496

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/22/09

Lab File ID (Standard): A\C49893.D Time Analyzed: 15:11

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	88509	4.97	297810	6.63	161064	9.78
	UPPER LIMIT	177018	5.47	595620	7.13	322128	10.28
	LOWER LIMIT	44255	4.47	148905	6.13	80532	9.28
	EPA SAMPLE NO.						
01	MB-33364	70159	4.96	238805	6.62	123550	9.76
02	LFB-33364	71719	4.96	240866	6.63	125851	9.77
03	SB-2B (42-44)	71075	4.96	245500	6.63	129926	9.76
04	SB-2B (14-16)	76235	4.98	120337* 40.4	6.71	126383	9.82
05	SB-2B (37-38)	61688	4.98	176501	6.70	111323	9.79

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM057 B35

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/22/09

Lab File ID (Standard): A\C49893.D Time Analyzed: 15:11

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	222159	12.59	179669	15.45	157446	16.65
	UPPER LIMIT	444318	13.09	359338	15.95	314892	17.15
	LOWER LIMIT	111080	12.09	89835	14.95	78723	16.15
	EPA SAMPLE NO.						
01	MB-33364	167245	12.58	116914	15.43	95369	16.64
02	LFB-33364	173156	12.58	125154	15.44	103351	16.65
03	SB-2B (42-44)	177748	12.58	130396	15.44	112114	16.64
04	SB-2B (14-16)	122828	12.69	71844* 40	15.52	35262* 23.4	16.70
05	SB-2B (37-38)	143433	12.60	98210	15.47	65088* 41.3	16.68

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM057 B36

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/28/09

Lab File ID (Standard): A\C50011.D Time Analyzed: 12:38

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	86287	4.92	290002	6.58	157051	9.71
	UPPER LIMIT	172574	5.42	580004	7.08	314102	10.21
	LOWER LIMIT	43144	4.42	145001	6.08	78526	9.21
	EPA SAMPLE NO.						
01	MB-33426	66695	4.91	221262	6.56	114069	9.70
02	LFB-33426	63243	4.91	213951	6.57	109919	9.69
03	SB-14B (54-56)	64188	4.92	213351	6.56	112479	9.69
04	SB-16B (44-46)	65424	4.91	224293	6.56	118676	9.69
05	SB-6 (16-18)	64384	4.91	218998	6.56	117303	9.69
06	SB-6 (26-28)	61439	4.91	209931	6.56	108657	9.69
07	SB-6 (30-32)	62034	4.91	213738	6.56	114269	9.69
08	SB-1 (5)	69813	4.91	242880	6.56	127976	9.68
09	SB-14B (20-22)	62664	4.91	142891* 49.3	6.64	108528	9.69
10	SB-16B (30-32)	62035	4.91	206696	6.58	109648	9.75
11	SB-14B (38-40)	49255	4.91	91894* 31.7	6.64	88873	9.73

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM057 B39

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/28/09

Lab File ID (Standard): A\C50011.D Time Analyzed: 12:38

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	215194	12.54	181989	15.41	165933	16.60
	UPPER LIMIT	430388	13.04	363978	15.91	331866	17.10
	LOWER LIMIT	107597	12.04	90995	14.91	82967	16.10
	EPA SAMPLE NO.						
01	MB-33426	159521	12.51	121462	15.39	113959	16.59
02	LFB-33426	158867	12.52	123177	15.40	119694	16.59
03	SB-14B (54-56)	156488	12.51	125230	15.39	121351	16.59
04	SB-16B (44-46)	165790	12.51	128018	15.39	122054	16.59
05	SB-6 (16-18)	160946	12.51	123938	15.42	103264	16.62
06	SB-6 (26-28)	152405	12.50	122671	15.39	116799	16.58
07	SB-6 (30-32)	156661	12.51	123054	15.39	118081	16.58
08	SB-1 (5)	179573	12.51	141462	15.40	120425	16.61
09	SB-14B (20-22)	154039	12.51	127136	15.39	109656	16.59
10	SB-16B (30-32)	107523* 49.9	12.57	61964* 34	15.49	32937* 19.8	16.65
11	SB-14B (38-40)	117648	12.54	76726* 42.1	15.44	31693* 19.1	16.61

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM057 B40

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	78	37-137
Benzaldehyde	1700	0	540	32*	40-140
Phenol	1700	0	1300	76	25-131
Bis(2-chloroethyl)ether	1700	0	1300	80	39-111
2-Chlorophenol	1700	0	1400	84	48-116
2-Methylphenol	1700	0	1400	86	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1400	85	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	76	40-124
Hexachloroethane	1700	0	1300	78	41-119
Nitrobenzene	1700	0	1400	82	48-126
Isophorone	1700	0	1300	79	33-131
2-Nitrophenol	1700	0	1400	86	41-121
2,4-Dimethylphenol	1700	0	1300	76	39-135
Bis(2-chloroethoxy)methane	1700	0	1400	82	20-148
2,4-Dichlorophenol	1700	0	1500	88	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	70	25-133
Hexachlorobutadiene	1700	0	1300	78	11-135
Caprolactam	1700	0	1200	71	40-140
4-Chloro-3-methylphenol	1700	0	1500	89	45-135
2-Methylnaphthalene	1700	0	1400	85	60-140
Hexachlorocyclopentadiene	1700	0	1100	66	13-119
2,4,6-Trichlorophenol	1700	0	1500	92	53-131
2,4,5-Trichlorophenol	1700	0	1600	94	48-132
1,1'-Biphenyl	1700	0	1500	88	40-140
2-Chloronaphthalene	1700	0	1300	76	47-123
2-Nitroaniline	1700	0	1500	92	41-131
Dimethylphthalate	1700	0	1500	91	10-162
2,6-Dinitrotoluene	1700	0	1500	88	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM057 B5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33232 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

Acenaphthylene	1700	0	1400	83	61-135
3-Nitroaniline	1700	0	1400	85	11-167
Acenaphthene	1700	0	1400	86	36-132
2,4-Dinitrophenol	1700	0	1700	103*	11-101
4-Nitrophenol	1700	0	1400	86	22-156
Dibenzofuran	1700	0	1500	88	24-156
2,4-Dinitrotoluene	1700	0	1500	90	48-134
Diethylphthalate	1700	0	1500	90	24-156
Fluorene	1700	0	1500	88	55-129
4-Chlorophenyl-phenylether	1700	0	1500	90	50-130
4-Nitroaniline	1700	0	1500	87	14-136
4,6-Dinitro-2-methylphenol	1700	0	1800	108*	47-107
N-Nitrosodiphenylamine	1700	0	1200	75	27-135
4-Bromophenyl-phenylether	1700	0	1500	88	50-142
Hexachlorobenzene	1700	0	1500	92	56-154
Atrazine	1700	0	1700	104	40-140
Pentachlorophenol	1700	0	1700	100	12-124
Phenanthrene	1700	0	1600	95	57-135
Anthracene	1700	0	1500	92	61-135
Carbazole	1700	0	1500	90	47-143
Di-n-butyl phthalate	1700	0	1600	97	44-144
Fluoranthene	1700	0	1600	95	61-135
Pyrene	1700	0	1600	95	58-136
Butyl benzyl phthalate	1700	0	1700	100	49-135
3,3'-Dichlorobenzidine	1700	0	1500	89	20-132
Benzo(a)anthracene	1700	0	1600	95	56-136
Chrysene	1700	0	1500	91	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1800	106	33-193
Di-n-octyl phthalate	1700	0	1700	104	45-155
Benzo(b)fluoranthene	1700	0	1400	81	43-147
Benzo(k)fluoranthene	1700	0	1800	108	53-159
Benzo(a)pyrene	1700	0	1700	100	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	92	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM057 B6

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33232 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5973N Init. Calib. Date(s): 10/01/09 13:28

Analysis Date: 10/16/09 21:24 10/01/09 15:59

Dibenzo(a,h)anthracene	1700	0	1500	92	15-185
Benzo(g,h,i)perylene	1700	0	1200	74	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 3 out of 65 outside limits

COMMENTS:

AECOM057 B7

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/22/09 22:45 10/06/09 20:26

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	76	37-137
Benzaldehyde	1700	0	300	16*	40-140
Phenol	1700	0	1300	78	25-131
Bis(2-chloroethyl)ether	1700	0	1300	76	39-111
2-Chlorophenol	1700	0	1300	80	48-116
2-Methylphenol	1700	0	1300	79	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	77	28-146
Acetophenone	1700	0	1300	76	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	76	40-124
Hexachloroethane	1700	0	1200	73	41-119
Nitrobenzene	1700	0	1300	77	48-126
Isophorone	1700	0	1300	75	33-131
2-Nitrophenol	1700	0	1300	80	41-121
2,4-Dimethylphenol	1700	0	1200	72	39-135
Bis(2-chloroethoxy)methane	1700	0	1000	63	20-148
2,4-Dichlorophenol	1700	0	1300	80	46-130
Naphthalene	1700	0	1300	78	47-117
4-Chloroaniline	1700	0	1200	69	25-133
Hexachlorobutadiene	1700	0	1200	74	11-135
Caprolactam	1700	0	1400	82	40-140
4-Chloro-3-methylphenol	1700	0	1400	86	45-135
2-Methylnaphthalene	1700	0	1300	79	60-140
Hexachlorocyclopentadiene	1700	0	1100	67	13-119
2,4,6-Trichlorophenol	1700	0	1400	86	53-131
2,4,5-Trichlorophenol	1700	0	1500	89	48-132
1,1'-Biphenyl	1700	0	1400	82	40-140
2-Chloronaphthalene	1700	0	1300	79	47-123
2-Nitroaniline	1700	0	1400	87	41-131
Dimethylphthalate	1700	0	1400	86	10-162
2,6-Dinitrotoluene	1700	0	1400	84	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B8

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/22/09 22:45 10/06/09 20:26

Acenaphthylene	1700	0	1300	78	61-135
3-Nitroaniline	1700	0	1300	79	11-167
Acenaphthene	1700	0	1400	84	36-132
2,4-Dinitrophenol	1700	0	1100	65	11-101
4-Nitrophenol	1700	0	1200	71	22-156
Dibenzofuran	1700	0	1400	85	24-156
2,4-Dinitrotoluene	1700	0	1400	86	48-134
Diethylphthalate	1700	0	1400	85	24-156
Fluorene	1700	0	1400	83	55-129
4-Chlorophenyl-phenylether	1700	0	1400	84	50-130
4-Nitroaniline	1700	0	1400	82	14-136
4,6-Dinitro-2-methylphenol	1700	0	1500	87	47-107
N-Nitrosodiphenylamine	1700	0	1200	69	27-135
4-Bromophenyl-phenylether	1700	0	1400	81	50-142
Hexachlorobenzene	1700	0	1400	84	56-154
Atrazine	1700	0	1700	103	40-140
Pentachlorophenol	1700	0	1400	83	12-124
Phenanthrene	1700	0	1500	88	57-135
Anthracene	1700	0	1400	87	61-135
Carbazole	1700	0	1300	81	47-143
Di-n-butyl phthalate	1700	0	1500	89	44-144
Fluoranthene	1700	0	1500	89	61-135
Pyrene	1700	0	1600	97	58-136
Butyl benzyl phthalate	1700	0	1700	102	49-135
3,3'-Dichlorobenzidine	1700	0	1400	83	20-132
Benzo(a)anthracene	1700	0	1500	91	56-136
Chrysene	1700	0	1500	87	38-170
Bis(2-ethylhexyl)phthalate	1700	0	1800	110	33-193
Di-n-octyl phthalate	1700	0	1800	107	45-155
Benzo(b)fluoranthene	1700	0	1300	77	43-147
Benzo(k)fluoranthene	1700	0	2000	118	53-159
Benzo(a)pyrene	1700	0	1500	93	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1400	84	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B9

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33364 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/22/09 22:45 10/06/09 20:26

Dibenzo(a,h)anthracene	1700	0	1400	85	15-185
Benzo(g,h,i)perylene	1700	0	1300	76	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33426 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/28/09 18:17 10/06/09 20:26

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1200	74	37-137
Benzaldehyde	1700	0	350	21*	40-140
Phenol	1700	0	1300	78	25-131
Bis(2-chloroethyl)ether	1700	0	1200	74	39-111
2-Chlorophenol	1700	0	1300	80	48-116
2-Methylphenol	1700	0	1300	77	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1300	76	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	80	40-124
Hexachloroethane	1700	0	1200	74	41-119
Nitrobenzene	1700	0	1300	78	48-126
Isophorone	1700	0	1200	75	33-131
2-Nitrophenol	1700	0	1300	78	41-121
2,4-Dimethylphenol	1700	0	1100	65	39-135
Bis(2-chloroethoxy)methane	1700	0	1000	61	20-148
2,4-Dichlorophenol	1700	0	1400	84	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	71	25-133
Hexachlorobutadiene	1700	0	1300	77	11-135
Caprolactam	1700	0	1300	76	40-140
4-Chloro-3-methylphenol	1700	0	1400	83	45-135
2-Methylnaphthalene	1700	0	1300	81	60-140
Hexachlorocyclopentadiene	1700	0	1200	75	13-119
2,4,6-Trichlorophenol	1700	0	1400	86	53-131
2,4,5-Trichlorophenol	1700	0	1500	88	48-132
1,1'-Biphenyl	1700	0	1400	84	40-140
2-Chloronaphthalene	1700	0	1300	77	47-123
2-Nitroaniline	1700	0	1400	87	41-131
Dimethylphthalate	1700	0	1300	77	10-162
2,6-Dinitrotoluene	1700	0	1400	84	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33426 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/28/09 18:17 10/06/09 20:26

Acenaphthylene	1700	0	1400	81	61-135
3-Nitroaniline	1700	0	1400	82	11-167
Acenaphthene	1700	0	1400	85	36-132
2,4-Dinitrophenol	1700	0	910	55	11-101
4-Nitrophenol	1700	0	1200	71	22-156
Dibenzofuran	1700	0	1400	86	24-156
2,4-Dinitrotoluene	1700	0	1400	86	48-134
Diethylphthalate	1700	0	1500	88	24-156
Fluorene	1700	0	1400	86	55-129
4-Chlorophenyl-phenylether	1700	0	1400	86	50-130
4-Nitroaniline	1700	0	1500	90	14-136
4,6-Dinitro-2-methylphenol	1700	0	1300	78	47-107
N-Nitrosodiphenylamine	1700	0	1100	69	27-135
4-Bromophenyl-phenylether	1700	0	1300	79	50-142
Hexachlorobenzene	1700	0	1400	85	56-154
Atrazine	1700	0	1600	98	40-140
Pentachlorophenol	1700	0	1500	91	12-124
Phenanthrene	1700	0	1400	86	57-135
Anthracene	1700	0	1500	90	61-135
Carbazole	1700	0	1400	83	47-143
Di-n-butyl phthalate	1700	0	1600	98	44-144
Fluoranthene	1700	0	1500	91	61-135
Pyrene	1700	0	1600	97	58-136
Butyl benzyl phthalate	1700	0	1700	102	49-135
3,3'-Dichlorobenzidine	1700	0	1400	81	20-132
Benzo(a)anthracene	1700	0	1500	93	56-136
Chrysene	1700	0	1500	92	38-170
Bis(2-ethylhexyl)phthalate	1700	0	2000	120	33-193
Di-n-octyl phthalate	1700	0	1800	108	45-155
Benzo(b)fluoranthene	1700	0	1300	75	43-147
Benzo(k)fluoranthene	1700	0	1800	107	53-159
Benzo(a)pyrene	1700	0	1500	90	47-141
Indeno(1,2,3-cd)pyrene	1700	0	1500	92	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B12

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Sample ID LFB-33426 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/28/09 18:17 10/06/09 20:26

Dibenzo(a,h)anthracene	1700	0	1500	92	15-185
Benzo(g,h,i)perylene	1700	0	1400	83	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM057 B13

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Instrument ID: HP5973N Calibration Dates: 10/1/09 10/1/09

Heated Purge: (Y/N) N Calibration Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= N34361.D SSTD010= N34362.D SSTD025= N34360.D SSTD040= N34363.D SSTD080= N34365.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R^2
4-Chloroaniline	0.4277234	0.4605583	0.4700293	0.5275421	0.5599247						0.489	10.9	
Hexachlorobutadiene	0.2166034	0.2248035	0.2227976	0.2429760	0.2572017						0.233	7.2	
Caprolactam	0.0883034	0.1090001	0.1085583	0.1163193	0.1183507						0.108	11.0	
4-Chloro-3-methylphenol *	0.2587119	0.2931853	0.2914551	0.3199477	0.3335679						0.299	9.7	*
2-Methylnaphthalene *	0.6547228	0.7108647	0.7043453	0.7758959	0.8280939						0.735	9.2	*
Hexachlorocyclopentadiene	0.2295034	0.3089598	0.356313	0.4105019	0.4550679						0.352	25.0	
2,4,6-Trichlorophenol *	0.3269268	0.3635579	0.3729700	0.4039728	0.4410933						0.382	11.3	*
2,4,5-Trichlorophenol *	0	0.3576903	0.3866299	0.4176687	0.4586599						0.405	10.7	*
1,1'-Biphenyl	1.2598685	1.5163471	1.4783243	1.7204512	1.8254495						1.560	14.1	
2-Chloronaphthalene *	1.2586935	1.3566077	1.3709817	1.4987367	1.5360227						1.404	8.0	*
2-Nitroaniline	0	0.326793	0.3330310	0.3535847	0.3620163						0.344	4.8	
Dimethylphthalate	1.1740831	1.2652492	1.2381945	1.3285785	1.3909167						1.279	6.5	
2,6-Dinitrotoluene *	0.2682557	0.2902496	0.2965014	0.3266749	0.3603244						0.308	11.6	*
Acenaphthylene *	1.6426913	1.7714953	1.7680600	1.9527664	2.1396066						1.855	10.4	*
3-Nitroaniline	0	0.3083314	0.3139338	0.3311595	0.3438203						0.324	5.0	
Acenaphthene *	1.0815387	1.1373202	1.1369382	1.2477750	1.3465227						1.190	8.9	*
2,4-Dinitrophenol	0	0.0986590	0.1403976	0.1721928	0.210223						0.155	30.5	
4-Nitrophenol	0	0.1754073	0.1612066	0.2013523	0.2035402						0.185	11.1	
Dibenzofuran *	1.4513359	1.5466523	1.5243536	1.6582027	1.7828913						1.593	8.1	*
2,4-Dinitrotoluene *	0.3378934	0.3630742	0.3708073	0.3988492	0.4271589						0.380	9.1	*
Diethylphthalate	1.1449993	1.256145	1.2248489	1.3135377	1.3706813						1.262	6.8	
1,2,4,5-Tetrachlorobenzene	0.5087928	0.6016143	0.5726364	0.6563449	0.7082197						0.610	12.6	
Fluorene *	1.1793202	1.2638705	1.2687461	1.4105377	1.519311						1.328	10.2	*

All ND
No quals.

AECOM057 B331

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5973N Calibration Date: 10/19/20 Time: 14:33

Lab File ID: 9\N34722.D Init. Calib. Date(s): 10/01/09 10/01/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 13:28 15:59

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.374	1.199		-12.7	
Benzaldehyde	0.667	0.302		-54.7	
Phenol	1.827	1.612	0.800	-11.8	25.0
Bis(2-chloroethyl)ether	1.221	1.150	0.700	-5.8	25.0
2-Chlorophenol	1.351	1.273	0.800	-5.8	25.0
2-Methylphenol	1.206	1.065	0.700	-11.7	25.0
2,2'-oxybis(1-chloropropane)	1.901	1.541		-19.0	
Acetophenone	1.694	1.562		-7.8	
N-Nitroso-di-n-propylamine	0.987	0.863	0.500	-12.6	25.0
Hexachloroethane	0.603	0.597	0.300	-1.1	25.0
Nitrobenzene	0.409	0.356	0.200	-12.9	25.0
Isophorone	0.720	0.641	0.400	-11.0	25.0
2-Nitrophenol	0.206	0.196	0.100	-4.7	25.0
2,4-Dimethylphenol	0.366	0.348	0.200	-4.9	25.0
Bis(2-chloroethoxy)methane	0.408	0.375	0.300	-8.1	25.0
2,4-Dichlorophenol	0.320	0.288	0.200	-10.0	25.0
Naphthalene	1.110	1.064	0.700	-4.2	25.0
4-Chloroaniline	0.489	0.438		-10.5	
Hexachlorobutadiene	0.233	0.226		-3.0	
Caprolactam	0.108	0.095		-12.1	
4-Chloro-3-methylphenol	0.299	0.278	0.200	-7.1	25.0
2-Methylnaphthalene	0.735	0.711	0.400	-3.2	25.0
Hexachlorocyclopentadiene	0.352	0.372		5.7	
2,4,6-Trichlorophenol	0.382	0.358	0.200	-6.2	25.0
2,4,5-Trichlorophenol	0.405	0.366	0.200	-9.7	25.0
1,1'-Biphenyl	1.560	1.465		-6.1	
2-Chloronaphthalene	1.404	1.283	0.800	-8.6	25.0
2-Nitroaniline	0.344	0.288		-16.2	
Dimethylphthalate	1.279	1.228		-4.0	
2,6-Dinitrotoluene	0.308	0.296	0.200	-4.0	25.0
Acenaphthylene	1.855	1.760	1.300	-5.1	25.0
3-Nitroaniline	0.324	0.311		-4.1	
Acenaphthene	1.190	1.149	0.800	-3.4	25.0
2,4-Dinitrophenol	0.155	0.166		6.8	
4-Nitrophenol	0.185	0.174		-6.1	
Dibenzofuran	1.593	1.566	0.800	-1.7	25.0
2,4-Dinitrotoluene	0.380	0.374	0.200	-1.5	25.0
Diethylphthalate	1.262	1.292		2.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B405

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM057

Instrument ID: HP5972 Calibration Dates: 10/6/09 10/6/09

Heated Purge: (Y/N) N Calibration Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C49495.D SSTD010= C49494.D SSTD025= C49493.D SSTD040= C49492.D SSTD080= C49490.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R^2	
3-Methylphenol/4-Methylphenol	1.4829164	1.5687206	1.4918488	1.4659627	1.2956223						1.461	6.9		
Aniline	2.0882545	2.1356807	2.0115845	2.1008987	2.0942669						2.086	2.2		
Benzidine	0.3137687	0.4206642	0.4848849	0.4004424	0.3530618						0.395	16.6		
Benzoic acid	0	0.0777999	0.1614543	0.1944469	0.1535314						0.147	33.6		
Benzyl alcohol	0.8431757	0.9697714	0.9470340	0.9618931	0.9216553						0.929	5.5		
Octachlorocyclopentene	0.1217956	0.1231964	0.1368229	0.1356654	0.1505415						0.134	8.8		
Pyridine	1.8586255	2.0561174	1.9503466	2.0308351	2.1362303						2.006	5.3		
Benzaldehyde	0.8526913	0.8894985	0.5831984	0.3899251	0.0586582						0.555	62.1		
N-Nitrosodimethylamine	0.9246856	1.0708427	0.9780274	1.1525122	1.2307695						1.071	11.6		
Phenol *	2.2225708	2.3630160	2.2633839	2.2991091	2.301919						2.290	2.3	*	
Bis(2-chloroethyl)ether *	1.7627376	1.9620880	1.9115072	1.9911108	1.9665798						1.919	4.8	*	
2-Chlorophenol *	1.4660288	1.5214739	1.4846864	1.5294981	1.5744476						1.515	2.8	*	
2-Methylphenol *	1.3099103	1.4103037	1.3298173	1.3922012	1.4375128						1.376	3.9	*	
2,2'-oxybis(1-chloropropane)	4.3420385	4.5085773	4.2117554	4.230839	4.2609903						4.311	2.8		
Acetophenone	1.5842940	1.8842989	1.7120145	1.7757741	1.8146758						1.754	6.5		
4-Methylphenol *	1.4829164	1.5687206	1.4918488	1.4659627	1.2956223						1.461	6.9	*	
N-Nitroso-di-n-propylamine *	1.12467	1.1714227	1.0822719	1.0452091	0.9529891						1.075	7.7	*	
Hexachloroethane *	0.6079000	0.641665	0.6260747	0.6402121	0.5628412						0.616	5.3	*	
Nitrobenzene *	0.3980658	0.4002757	0.4031717	0.419815	0.4035429						0.405	2.1	*	
Isophorone *	0.8572097	0.8654117	0.913568	0.93717	0.9085248						0.896	3.8	*	
2-Nitrophenol *	0.2254612	0.2374589	0.2525809	0.2692455	0.2659509						0.250	7.5	*	
2,4-Dimethylphenol *	0.370073	0.3698597	0.3710535	0.3866946	0.3720445						0.374	1.9	*	
Bis(2-chloroethoxy)methane *	0.5917609	0.6304175	0.6408542	0.6406414	0.5937057						0.619	4.0	*	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972 Calibration Date: 10/22/09 Time: 15:11

Lab File ID: A\C49893.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.493		2.2	
Benzaldehyde	0.555	0.290		-47.7	
Phenol	2.290	2.187	0.800	-4.5	25.0
Bis(2-chloroethyl)ether	1.919	1.783	0.700	-7.1	25.0
2-Chlorophenol	1.515	1.470	0.800	-3.0	25.0
2-Methylphenol	1.376	1.417	0.700	3.0	25.0
2,2'-oxybis(1-chloropropane)	4.311	4.075		-5.5	
Acetophenone	1.754	1.724		-1.7	
4-Methylphenol	1.461	1.493	0.600	2.2	25.0
N-Nitroso-di-n-propylamine	1.075	1.044	0.500	-2.9	25.0
Hexachloroethane	0.616	0.624	0.300	1.3	25.0
Nitrobenzene	0.405	0.412	0.200	1.7	25.0
Isophorone	0.896	0.886	0.400	-1.2	25.0
2-Nitrophenol	0.250	0.258	0.100	3.1	25.0
2,4-Dimethylphenol	0.374	0.366	0.200	-2.1	25.0
Bis(2-chloroethoxy)methane	0.619	0.653	0.300	5.4	25.0
2,4-Dichlorophenol	0.309	0.323	0.200	4.4	25.0
Naphthalene	1.076	1.081	0.700	0.4	25.0
4-Chloroaniline	0.488	0.500		2.5	
Hexachlorobutadiene	0.151	0.150		-0.4	
Caprolactam	0.134	0.124		-7.4	
4-Chloro-3-methylphenol	0.314	0.300	0.200	-4.4	25.0
2-Methylnaphthalene	0.674	0.675	0.400	0.2	25.0
Hexachlorocyclopentadiene	0.271	0.230		-15.1	
2,4,6-Trichlorophenol	0.365	0.364	0.200	-0.2	25.0
2,4,5-Trichlorophenol	0.399	0.384	0.200	-3.7	25.0
1,1'-Biphenyl	1.410	1.305		-7.4	
2-Chloronaphthalene	1.267	1.175	0.800	-7.2	25.0
2-Nitroaniline	0.433	0.405		-6.5	
Dimethylphthalate	1.398	1.351		-3.3	
2,6-Dinitrotoluene	0.361	0.360	0.200	-0.3	25.0
Acenaphthylene	1.922	1.828	1.300	-4.9	25.0
3-Nitroaniline	0.410	0.396		-3.4	
Acenaphthene	1.174	1.098	0.800	-6.4	25.0
2,4-Dinitrophenol	0.184	0.184		0.2	
4-Nitrophenol	0.151	0.149		-1.3	
Dibenzofuran	1.585	1.542	0.800	-2.7	25.0
2,4-Dinitrotoluene	0.453	0.450	0.200	-0.7	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B414

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972 Calibration Date: 10/26/09 Time: 16:10

Lab File ID: A\C49960.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.598		9.4	
Benzaldehyde	0.555	0.294		-47.0	
Phenol	2.290	2.233	0.800	-2.5	25.0
Bis(2-chloroethyl)ether	1.919	1.788	0.700	-6.8	25.0
2-Chlorophenol	1.515	1.507	0.800	-0.5	25.0
2-Methylphenol	1.376	1.642	0.700	19.3	25.0
2,2'-oxybis(1-chloropropane)	4.311	4.137		-4.0	
Acetophenone	1.754	1.771		1.0	
N-Nitroso-di-n-propylamine	1.075	1.066	0.500	-0.9	25.0
Hexachloroethane	0.616	0.636	0.300	3.3	25.0
Nitrobenzene	0.405	0.401	0.200	-1.0	25.0
Isophorone	0.896	0.877	0.400	-2.2	25.0
2-Nitrophenol	0.250	0.257	0.100	2.7	25.0
2,4-Dimethylphenol	0.374	0.371	0.200	-0.8	25.0
Bis(2-chloroethoxy)methane	0.619	0.639	0.300	3.2	25.0
2,4-Dichlorophenol	0.309	0.313	0.200	1.2	25.0
Naphthalene	1.076	1.089	0.700	1.2	25.0
4-Chloroaniline	0.488	0.494		1.2	
Hexachlorobutadiene	0.151	0.140		-7.0	
Caprolactam	0.134	0.128		-4.4	
4-Chloro-3-methylphenol	0.314	0.310	0.200	-1.2	25.0
2-Methylnaphthalene	0.674	0.661	0.400	-1.9	25.0
Hexachlorocyclopentadiene	0.271	0.196		-27.7	
2,4,6-Trichlorophenol	0.365	0.365	0.200	0.1	25.0
2,4,5-Trichlorophenol	0.399	0.410	0.200	2.8	25.0
1,1'-Biphenyl	1.410	1.330		-5.6	
2-Chloronaphthalene	1.267	1.245	0.800	-1.7	25.0
2-Nitroaniline	0.433	0.424		-2.1	
Dimethylphthalate	1.398	1.529		9.4	
2,6-Dinitrotoluene	0.361	0.366	0.200	1.4	25.0
Acenaphthylene	1.922	1.875	1.300	-2.4	25.0
3-Nitroaniline	0.410	0.415		1.2	
Acenaphthene	1.174	1.115	0.800	-5.0	25.0
2,4-Dinitrophenol	0.184	0.204		11.1	
4-Nitrophenol	0.151	0.168		11.3	
Dibenzofuran	1.585	1.571	0.800	-0.9	25.0
2,4-Dinitrotoluene	0.453	0.458	0.200	1.0	25.0
Diethylphthalate	1.311	1.317		0.5	

Not used.

Not used.

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B423

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972 Calibration Date: 10/26/09 Time: 16:10

Lab File ID: A\C49960.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.243	1.218	0.900	-2.0	25.0
4-Chlorophenyl-phenylether	0.546	0.524	0.400	-4.1	25.0
4-Nitroaniline	0.401	0.401		-0.1	
4,6-Dinitro-2-methylphenol	0.181	0.188		3.7	
N-Nitrosodiphenylamine	0.782	0.747		-4.4	
4-Bromophenyl-phenylether	0.229	0.194	0.100	-15.3	25.0
Hexachlorobenzene	0.267	0.222	0.100	-16.9	25.0
Atrazine	0.162	0.160		-1.0	
Pentachlorophenol	0.153	0.148	0.050	-3.4	25.0
Phenanthrene	1.143	1.099	0.700	-3.8	25.0
Anthracene	1.165	1.144	0.700	-1.8	25.0
Carbazole	1.130	1.144		1.2	
Di-n-butyl phthalate	1.641	1.623		-1.1	
Fluoranthene	1.079	1.014	0.600	-6.0	25.0
Pyrene	1.320	1.333	0.600	1.0	25.0
Butyl benzyl phthalate	0.812	0.897		10.5	
3,3'-Dichlorobenzidine	0.356	0.400		12.4	
Benzo(a)anthracene	1.096	1.103	0.800	0.6	25.0
Chrysene	1.066	1.017	0.700	-4.6	25.0
Bis(2-ethylhexyl)phthalate	1.072	1.092		1.9	
Di-n-octyl phthalate	2.216	2.386		7.7	
Benzo(b)fluoranthene	1.372	1.577	0.700	15.0	25.0
Benzo(k)fluoranthene	1.027	0.756	0.700	-26.4	25.0
Benzo(a)pyrene	1.118	1.134	0.700	1.4	25.0
Indeno(1,2,3-cd)pyrene	1.289	1.248	0.500	-3.2	25.0
Dibenzo(a,h)anthracene	1.058	1.013	0.400	-4.3	25.0
Benzo(g,h,i)perylene	1.099	1.032	0.500	-6.1	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B424

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972 Calibration Date: 10/28/09 Time: 12:38

Lab File ID: A\C50011.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.491		2.1	
Benzaldehyde	0.555	0.273		-50.8	
Phenol	2.290	2.205	0.800	-3.7	25.0
Bis(2-chloroethyl)ether	1.919	1.761	0.700	-8.2	25.0
2-Chlorophenol	1.515	1.467	0.800	-3.2	25.0
2-Methylphenol	1.376	1.401	0.700	1.8	25.0
2,2'-oxybis(1-chloropropane)	4.311	3.983		-7.6	
Acetophenone	1.754	1.691		-3.6	
N-Nitroso-di-n-propylamine	1.075	1.024	0.500	-4.8	25.0
Hexachloroethane	0.616	0.619	0.300	0.5	25.0
Nitrobenzene	0.405	0.404	0.200	-0.2	25.0
Isophorone	0.896	0.874	0.400	-2.5	25.0
2-Nitrophenol	0.250	0.256	0.100	2.3	25.0
2,4-Dimethylphenol	0.374	0.372	0.200	-0.5	25.0
Bis(2-chloroethoxy)methane	0.619	0.653	0.300	5.4	25.0
2,4-Dichlorophenol	0.309	0.317	0.200	2.5	25.0
Naphthalene	1.076	1.072	0.700	-0.4	25.0
4-Chloroaniline	0.488	0.497		1.9	
Hexachlorobutadiene	0.151	0.142		-5.7	
Caprolactam	0.134	0.129		-3.7	
4-Chloro-3-methylphenol	0.314	0.309	0.200	-1.5	25.0
2-Methylnaphthalene	0.674	0.669	0.400	-0.7	25.0
Hexachlorocyclopentadiene	0.271	0.201		-25.8	
2,4,6-Trichlorophenol	0.365	0.368	0.200	0.9	25.0
2,4,5-Trichlorophenol	0.399	0.387	0.200	-2.9	25.0
1,1'-Biphenyl	1.410	1.283		-9.0	
2-Chloronaphthalene	1.267	1.203	0.800	-5.0	25.0
2-Nitroaniline	0.433	0.411		-5.1	
Dimethylphthalate	1.398	1.500		7.3	
2,6-Dinitrotoluene	0.361	0.363	0.200	0.5	25.0
Acenaphthylene	1.922	1.824	1.300	-5.1	25.0
3-Nitroaniline	0.410	0.400		-2.4	
Acenaphthene	1.174	1.102	0.800	-6.1	25.0
2,4-Dinitrophenol	0.184	0.201		9.4	
4-Nitrophenol	0.151	0.147		-2.6	
Dibenzofuran	1.585	1.541	0.800	-2.8	25.0
2,4-Dinitrotoluene	0.453	0.457	0.200	0.8	25.0
Diethylphthalate	1.311	1.265		-3.5	

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B432

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Instrument ID: HP5972 Calibration Date: 11/12/09 Time: 20:09

Lab File ID: A\C50465.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.384		-5.3	
Benzaldehyde	0.555	0.217		-60.9	
Phenol	2.290	1.894	0.800	-17.3	25.0
Bis(2-chloroethyl)ether	1.919	1.488	0.700	-22.5	25.0
2-Chlorophenol	1.515	1.365	0.800	-9.9	25.0
2-Methylphenol	1.376	1.134	0.700	-17.6	25.0
2,2'-oxybis(1-chloropropane)	4.311	3.652		-15.3	
Acetophenone	1.754	1.478		-15.7	
N-Nitroso-di-n-propylamine	1.075	1.020	0.500	-5.1	25.0
Hexachloroethane	0.616	0.598	0.300	-2.9	25.0
Nitrobenzene	0.405	0.358	0.200	-11.6	25.0
Isophorone	0.896	0.759	0.400	-15.3	25.0
2-Nitrophenol	0.250	0.239	0.100	-4.5	25.0
2,4-Dimethylphenol	0.374	0.334	0.200	-10.7	25.0
Bis(2-chloroethoxy)methane	0.619	0.563	0.300	-9.1	25.0
2,4-Dichlorophenol	0.309	0.310	0.200	0.2	25.0
Naphthalene	1.076	1.060	0.700	-1.5	25.0
4-Chloroaniline	0.488	0.483		-1.0	
Hexachlorobutadiene	0.151	0.147		-2.4	
Caprolactam	0.134	0.112		-16.4	
4-Chloro-3-methylphenol	0.314	0.285	0.200	-9.2	25.0
2-Methylnaphthalene	0.674	0.665	0.400	-1.3	25.0
Hexachlorocyclopentadiene	0.271	0.165		-39.1	
2,4,6-Trichlorophenol	0.365	0.351	0.200	-3.8	25.0
2,4,5-Trichlorophenol	0.399	0.365	0.200	-8.5	25.0
1,1'-Biphenyl	1.410	1.400		-0.7	
2-Chloronaphthalene	1.267	1.152	0.800	-9.1	25.0
2-Nitroaniline	0.433	0.371		-14.4	
Dimethylphthalate	1.398	1.328		-5.0	
2,6-Dinitrotoluene	0.361	0.357	0.200	-1.1	25.0
Acenaphthylene	1.922	1.843	1.300	-4.1	25.0
3-Nitroaniline	0.410	0.371		-9.5	
Acenaphthene	1.174	1.125	0.800	-4.1	25.0
2,4-Dinitrophenol	0.184	0.163		-11.3	
4-Nitrophenol	0.151	0.140		-7.3	
Dibenzofuran	1.585	1.558	0.800	-1.7	25.0
2,4-Dinitrotoluene	0.453	0.452	0.200	-0.3	25.0
Diethylphthalate	1.311	1.288		-1.7	

All other compounds must meet a minimum RRF of 0.010.

AECOM057 B451

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM057

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-33232	82	88	92	92	93	109	85	84	0
02	LFB-33232	73	81	83	90	87	93	77	78	0
03	SB-4 (36'-38')	90	93	88	95	99	106	87	89	0
04	SB-4 (44'-46')	88	89	86	96	94	104	85	88	0
05	TP-1 (12')	88	89	88	100	97	99	85	85	0
06	MB-33364	70	77	84	81	82	95	73	77	0
07	LFB-33364	69	77	81	85	83	90	71	74	0
08	SB-2B (42-44)	84	85	93	89	88	92	81	84	0
09	SB-2B (14-16)	82	169 *	89	87	87	132	69	65	1
10	SB-2B (37-38)	59	115	85	88	106	128	71	90	0
11	SB-2B (14-16)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
12	SB-2B (37-38)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
13	MB-33426	73	83	85	84	89	96	75	81	0
14	LFB-33426	69	77	80	88	84	89	72	76	0
15	SB-14B (54-56)	85	87	92	95	93	99	81	86	0
16	SB-16B (44-46)	89	92	99	99	100	101	88	90	0
17	SB-6 (16-18)	90	92	100	104	99	105	89	92	0
18	SB-6 (26-28)	91	91	96	104	104	101	89	92	0
19	SB-6 (30-32)	90	90	97	96	95	102	88	92	0
20	SB-1 (5)	93	89	101	103	99	102	89	94	0
21	SB-14B (20-22)	87	131 *	95	104	96	95	85	87	1
22	SB-16B (30-32)	75	86	90	99	98	162 *	77	71	1
23	SB-14B (38-40)	98	242 *	107	95	154 *	200 *	84	98	3
24	SB-14B (20-22)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
25	SB-16B (30-32)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
26	SB-14B (38-40)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
27	MB-33723	71	83	80	79	89	93	73	77	0
28	LFB-33723	70	78	79	91	87	88	73	72	0
29	SB-12B (48-50)	68	78	79	89	90	92	71	74	0

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(25-121)	
S 2	NBZ	= Nitrobenzene-d5	(23-120)	
S 3	PD5	= Phenol-d5	(24-113)	
S 4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S 5	FBP	= 2-Fluorobiphenyl	(30-115)	
S 6	TPH	= 4-Terphenyl-d14	(18-137)	
S 7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM057 B3

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

AA CRDL Standard Source:

ICP CRDL Standard Source: MV Labs/High Purity

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Antimony				120.0	113.16	94.3	115.37	96.1
Arsenic				20.0	21.35	106.8	20.77	103.8
Beryllium				10.0	10.11	101.1	10.16	101.6
Cadmium				10.0	10.30	103.0	10.00	100.0
Chromium				20.0	19.99	100.0	19.86	99.3
Cobalt				100.0	99.95	100.0	100.97	101.0
Copper				50.0	48.91	97.8	49.44	98.9
Lead				6.0	5.22	87.0	5.12	85.3
Manganese				30.0	29.80	99.3	29.88	99.6
Nickel				80.0	81.33	101.7	82.11	102.6
Selenium				10.0	12.11	121.1	11.65	116.5
Silver				20.0	19.85	99.3	19.77	98.9
Thallium				20.0	19.70	98.5	20.60	103.0
Vanadium				100.0	97.40	97.4	97.80	97.8
Zinc				40.0	41.87	104.7	42.48	106.2

AECOM057 M34

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

AA CRDL Standard Source: MV Labs/High Purity

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.22	109.0					
Mercury	0.2	0.23	113.5					
Mercury	0.2	0.21	106.0					
Mercury	0.2	0.18	91.5					
Mercury	0.2	0.20	99.5					
Mercury	0.2	0.15	75.5					

4/24/09

AECOM057 M35

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
SB-4 (36'-38')S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM057

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	39.2084		0.5547	B	61.05	63.3	N	P
Arsenic	75-125	5.2556		0.7934	B	4.88	91.4		P
Barium	75-125	271.1026		24.8828		244.20	100.8		P
Beryllium	75-125	6.4029		0.2491	B	6.11	100.8		P
Cadmium	75-125	6.1954		0.1575	B	6.11	98.9		P
Chromium	75-125	33.2063		8.6300		24.42	100.6		P
Cobalt	75-125	64.4212		4.0476	B	61.05	98.9		P
Copper	75-125	36.7521		5.7875		30.53	101.4		P
Iron		9509.0355		10022.4506		122.10	-420.5		P
Lead	75-125	5.0088		2.8345		2.44	89.0		P
Manganese	75-125	199.8767		153.9951		61.05	75.2		P
Mercury	75-125	0.1943		0.0204	U	0.20	95.5		CV
Nickel	75-125	69.1209		8.6813		61.05	99.0		P
Selenium	75-125	1.2156		0.3031	U	1.22	99.6		P
Silver	75-125	4.5648		0.1012	U	6.11	74.8		P
Thallium	75-125	5.8733		0.7295	B	6.11	84.3		P
Vanadium	75-125	73.4127		12.6886		61.05	99.5		P
Zinc	75-125	81.5971		18.8718		61.05	102.7		P

Comments:

AECOM057 M43

TP-1(12') and DUP-3

Analyte	CRDL (mg/Kg)	5xCRDL (mg/Kg)	Original Result (mg/Kg)	Duplicate Result (mg/Kg)	RPD	Actions
Aluminum	20	100	6240	4630	30	OK; <35
Antimony	6	30	2.6	2.2	17	OK; <35
Arsenic	1	5	5.3	3.8	33	OK; <35
Barium	20	100	316	214	38	J both
Beryllium	0.5	2.5	0.42	0.29	37	OK; difference ± 2xCRDL
Cadmium	0.5	2.5	0.46	0.2	79	OK; difference ± 2xCRDL
Calcium	500	2500	6970	5500	24	OK; <35
Chromium	1	5	15.2	11.3	29	OK; <35
Cobalt	5	25	5.5	4.8	14	OK; <35
Copper	2.5	12.5	57	55.5	3	OK; <35
Iron	10	50	12300	10600	15	OK; <35
Lead	0.3	1.5	195	142	31	OK; <35
Magnesium	500	2500	2530	2330	8	OK; <35
Manganese	1.5	7.5	147	124	17	OK; <35
Mercury	0.033	0.165	0.46	0.23	67	J both
Nickel	4	20	13.3	11.5	15	OK; <35
Potassium	500	2500	992	871	13	OK; <35
Selenium	0.5	2.5	0.33	0.30 U	Not calculable	OK; difference ± 2xCRDL
Silver	1	5	0.21	0.099 U	Not calculable	OK; difference ± 2xCRDL
Sodium	500	2500	132	128	3	OK; <35
Thallium	1	5	0.40 U	0.038 U	Not calculable	OK; both ND
Vanadium	5	25	21.8	17	25	OK; <35
Zinc	2	10	282	170	50	J both

H2M LABS, INC.

CALIBRATION DATA					CORR. COEFF:	0.9999
TIME DEVELOPED	1100	1101	1102	1103	1104	
STANDARD	0	10	50	100	200	
ABS.	0.000	0.019	0.085	0.165	0.326	
CONC. (ug/L)	<10	10.4	51.1	100.3	199.5	
MLS. DIST	50	50	—	50	—	

AECOM 056, 057

CN, UG/L = $\frac{A \times D \times F}{B}$

CN, MG/KG = $\frac{A \times D \times F}{W \times E} \times 100$

Analyst: Erik Méndez

Date: 10.20.09

Erik Méndez 10/20/09

#122 P 64

CLIENT ID#	H2M LAB#	B (L) SAMPLE DISTILLED	F (L) OF ABS SOLUTION	W GRAMS USED	ABS	A UG/L	D DF	CN UG/L	MG/KG	E %TS	TIME DEV.	NOTES CALCULATIONS
ICV - 33327		0.05	0.05		0.112	67.7		67.7			11 05	Tv:75 90.2%
ICB		—			0.000	<10		<10			06	
CRI		0.05			0.013	6.7		6.7			07	Tv:10 66.9%
CCV1		0.05			0.151	91.7		91.7			08	Tv:100 91.7%
CCB1		—			0.000	<10		<10			09	
MB- 33327		0.05			0.000	<10		<10			10	
MB(10mL)- 33329				1.0 g	0.000	<10		<10			11	
LC(10mL)- 33328					0.241	147.2	x5	735.8	36.8		12	Tv:34.4 106.95%
TP-1 (9)	0911044-001D				0.019	10.4		10.4	0.641	81.1	13	
↓	↓ MS				8.166	101.0	x5	504.8	31.1	81.1	14	Tv:20 98.9%
↓	↓ DUP				0.016	~~8.0~~ <10 EM 10/20/09		<10 EM 10/20/09	<0.597 *	81.1	15	RPD: ~~19.0%~~ N/C EM 10/20/09
DUP-3	↓ -002D				0.000	<10		< 10 EM 10/20/09	<0.597	83.7	16	
SB-4 (36-38)	0911045-001D				0.000	<10		<10	<0.611	81.9	17	
↓ (44-46)	↓ -002D				0.000	<10		<10	<0.62	80.6	18	
↓ -28 (14-16)	0911284-001D			↓	0.014	7.3 <10	EM 10/24/09	~~7.3~~ <10	<0.59	84.2	19	
CCV2		0.05			0.151	91.7		91.7			20	Tv:100 91.7
CCB2		—			0.000	<10		<10	~~<0.597~~ EM 10/20/09 *		21	
SB-28 (37-38)	0911284-002D			1.0 g	0.000	<10		<10	<0.548	83.6	22	
↓ (42-44)	↓ -003D		↓	↓	0.000	<10		<10	<0.672	74.4	↓ 23	
CRI		0.05	0.05		0.014	7.3		7.3			11 24	Tv:10 73.1
CCV3		↓	↓		0.151	91.7		91.7			25	Tv:100 91.7
CCB3		—			0.000	<10		<10			↓ 26	

11/24/09 EM

AECOM057 W25

* PQL of sample is 0.617. ~~Sample's~~ The sample's actual value used only to calculate an ~~RPD~~ RPD. Will do a free CN test on this sample. - EM 11/20/09

H2M LABS, INC.

AECOM 057, 058

CALIBRATION DATA						CORR. COEFF: 0.9996
TIME DEVELOPED	1200	1201	1202	1203	1204	
STANDARD	0	10	50	100	200	
ABS.	0.000	0.016	0.073	0.142	0.300	
CONC. (ug/L)	<10	11.6	49.8	96.0	201.9	
MLS. DIST	50	50	—	50	—	

CN, UG/L = $\frac{A \times D \times F}{B}$

CN, MG/KG = $\frac{A \times D \times F}{W \times E} \times 100$

Analyst: Erik Méndez

Date: 11.03.09

Erik Méndez 11/3/09

#122 P 84

CLIENT ID#	H2M LAB#	B (L) SAMPLE DISTILLED	F (L) OF ABS SOLUTION	W GRAMS USED	ABS	A UG/L	D DF	CN UG/L	MG/KG	E %TS	TIME DEV.	NOTES CALCULATIONS
ICV - 33575		0.05	0.05		0.109	73.9		73.9			1205	TV: 75 98.5%
ICB		—			0.000	<10		<10			06	
CRI		0.05			0.011	8.2		8.2			07	TV: 10 82.0%
CCV1		0.05			0.146	98.7		98.7			08	TV: 100 98.7%
CCB1		—			0.000	<10		<10			09	
MB- 33575		0.05			0.000	<10		<10			10	
MB(JOIL)-33576				1.0 g	0.000	<10		<10	<0.5		11	
LCS(JOIL)-33576					*0.222	~~148.6~~ 149.6 *	x5	748.0	37.4		12	TV: 34.4 108.7%
SB - 1 (5)	0911468-001D				0.000	<10		<10	<0.577	86.7	13	
↓	↓ MS				0.155	104.7	x5	523.5	30.2	86.7	14	TV: 25 104.5%
↓	↓ Dup				0.000	<10		<10	<0.577	86.7	15	RPD = N/C
-14B (20-22)	-002D				0.000	<10		<10	<1.4	35.7	16	
↓ (38-40)	-003D				0.000	<10		<10	<0.575	86.9	17	
↓ (54-56)	-004D				0.000	<10		<10	<0.562	88.9	18	
↓ -16B (30-32)	↓ -005D			↓	0.000	<10		<10	<0.599	83.5	19	
CCV2		0.05			0.142	96.0		96.0			20	TV: 100 96.0%
CCB2		—			0.000	<10		<10			21	
SB - 16B (44-46)	0911468-006D			1.0 g	0.000	<		<10	<0.627	79.8	22	
↓ - 3 (36-38)	0911469-001D				0.000	<		<10	<0.557	89.7	23	
↓ (46-48)	↓ -002D				0.000	<		<10	<0.674	74.2	24	
-8 (24-26)	↓ -003D				0.103	69.9	x25	1746.4	109.0	80.2	25	
-6 (16-18)	0911495-001D				0.012	<10	**	<10 *	~~<0.597~~ <0.855	~~85.5~~	26	
↓ (26-28)	↓ -002D				0.000	<10		<10	<0.547	83.7	27	
↓ ↓ (30-32)	↓ -003D		↓	↓	0.000	<10		<10	<0.582	85.9	↓ 28	
CRI		0.05	0.05		0.011	8.2		8.2			12 29	TV: 10 82.0%
CCV3		0.05	↓		0.142	96.0		96.0			↓ 30	TV: 100 96.0%
CCB3		—	↓		0.000	<10		<10			↓ 31	

* Value is 149.6 ug/L

** Value is <0.855 mg/kg

AECOM057 W27

H2M LABS INC.

Friday, February 05, 2010

Percent moisture Determination

Analyst

StartDate 2/5/2010 10:47:4

Client SampID	*Lab SampID*	*Type*	*Tare (g)*	*Initial (g)*	*Final (g)*	*Moist (%)*	*Solids (%)*	*AnalDate*
Client :								
	0911468-002c	Samp	1.299	10.503	4.478	65.46	34.54	02/05/10 15:23
	0911468-002cDup	Dup	1.313	10.928	4.509	66.76	33.24	02/05/10 15:23

Moist

RERUN 65.46 %

ORIGINAL 64.3 %

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM058

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
SB-3 (36-38)	0911469-001	X	X	X	X	X
SB-3 (46-48)	0911469-002	X	X	X	X	X
SB-8 (24-26)	0911469-003	X	X	X	X	X
TB-102109	0911469-004				X	
SB-17 (16-18)	0911584-001	X	X	X	X	X
SB-17 (36-38)	0911584-002	X	X	X	X	X
SB-17 (40-42)	0911584-003	X	X	X	X	X
TB-102209	0911584-004				X	
SB-7 (38-40)	0911725-001	X	X	X	X	X
SB-7 (44-46)	0911725-002	X	X	X	X	X
FB-110409	0912043-001	X	X	X	X	X
TB-110409	0912043-002				X	

CLP, (Non-CLP (Please indicate year of protocol)

ASP B 2000
mtm 11/30/09

AECOM058 S4

H2M LABS, INC.

AECOM058

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/21/2009 5:32:00 PM

Work Order Number 0911469

Received by dmc

Checklist completed by _____ 10/22/09 (Signature / Date)

Reviewed by BA (Initials) 10/28/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM058 S14

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23610

EXTERNAL CHAIN OF CUSTODY

Aecom058

CLIENT: AECOM

H2M SDG NO:

PROJECT NAME/NUMBER: EQUITY FORMER MGP 04940-181

SAMPLERS: (signature)/Client: J. Mitard / AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: STANDARD

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description →	TCL VOC	TCL SVOC	TAL Metals	Free cyanide	PCBs (as Aroclors)	TCL Pest + Herb	VOC			LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED	ORGANIC							INORG.			
						VOA	BNA	Pest/PCB					Metal	CN		
10/22/09	1000	SOIL	SB-17 (16-18)	3		X	X	X	X	X	X				0911584-001	
10/22/09	1030	SOIL	SB-17 (36-38)	3		X	X	X	X	X	X				-002	
10/22/09	1100	SOIL	SB-17 (40-42)	2		X	X	X	X	X	X				-003	
		water	TRIP BLANK	2								X			-004	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-26-09	15.12	S. Wad	10-26-09	15.12
S. Wad	10-26-09	16.30		10/26/09	16:30

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp _____
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

AECOM058

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/26/2009 4:30:00 PM

Work Order Number 0911584

Received by dmc

Checklist completed by _____ 10/27/09 (Signature / Date)

Reviewed by SA (Initials) 10/29/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM058 S24

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23613

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM058

PROJECT NAME/NUMBER: Equity former MGP 04940-181

SAMPLERS: (signature)/Client: J. De Boer, K. Kachel & J. Millard/AECOM

DELIVERABLES:

TURNAROUND TIME:

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA (TCL VOC)	ORGANIC BNA (TCL SVOC)	ORGANIC Pest/PCB (TAL Metals)	ORGANIC (Free Cn)	ORGANIC (PCBs Cas Aroclors)	ORGANIC (TCL Pest & Herb)	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
10/27/09	1715	soil	SB-7 (38-40)	3	X	X	X	X	X	X			0911725-001	
10/27/09	1725	soil	SB-7 (44-46)	3	X	X	X	X	X	X			0911725-002	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-28-09	1615	S. Jed	10-28-09	16.15
S. Jed	10-28-09	18.28		10/28/09	18:28

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 4.8°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM058 S33

AECOM058

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 10/28/2009 6:28:00 PM

Work Order Number 0911725

Received by dmc

Checklist completed by _____ 10/29/09
Signature Date

Reviewed by JSA 11/5/09
Initials Date

Matrix: Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM058 S34

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23609

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM057/058

PROJECT NAME/NUMBER
EQUITY FORMER MGP
04940-181-300

SAMPLERS: (signature)/Client
JPFEIFFER/AECOM

DELIVERABLES:
AS PER PO

TURNAROUND TIME:
STANDARD

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB					INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
					→	VOC	SVOC	TAL METALS	FREE CYANIDE	Total CN/Free CN	TCL VOC/VOC	TCL SVOC/PCBs/TCL Pest/TCL Herb				
11/3/09	0930	SOIL	SB-12B (40-42)	3		X	X	X	X						0912042-001	
11/3/09	1115	SOIL	SB-12B (48-50)	3		X	X	X	X						↓ -002	
~~11/2/09~~ 11/3/09	-	WATER	TRIP BLANK	3		X									0912043-002	
															↓	
11/4/09	0800	WATER	FB-110409	11			X	X		X	X	X			↓ -001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/4/09	0934	S.Wal	11-4-09	14.36
S.Wal	11-4-09	16.25		11/4/09	16:25

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or chilled, Temp 8.6°C ON ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM058 S43

AECOM058

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 11/4/2009

Work Order Number 0912043

Received by dmc

Checklist completed by _____ (Signature) 11/6/09 (Date)

Reviewed by JSA (Initials) 11/11/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

AECOM058 S44

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 DCA #	SMC2 TOL #	SMC3 BFB #	OTHER	TOT OUT
01	VBLK102309	97	100	102		0
02	LFB102309	100	100	100		0
03	SB-3(46-48)	93	97	103		0
04	SB-3(36-38)	43 *	107	92		1
05	SB-8(24-26)	38 *	105	102		1
06	VBLK103009	97	87	111		0
07	SB-17(36-38)	107	88	102		0
08	SB-17(16-18)	109	98	174 *		1
09	VBLK110409	97	98	104		0
10	SB-17(40-42)	99	98	101		0
11	SB-7(38-40)	102	98	101		0
12	SB-7(44-46)	101	97	104		0

			QC Limit
SMC1	DCA	= 1,2-Dichloroethane-d4	(70-121)
SMC2	TOL	= Toluene-d8	(84-138)
SMC3	BFB	= 4-Bromofluorobenzene	(59-113)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Sample ID LFB102609M Level: (low/med) MED

Column ID ZB-624 Column Diam .18

Inst. ID HP5971

Analysis Date: 10/26/09 17:50

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	6300	0	5600	90	33-149
Dichlorodifluoromethane	6300	0	4700	75	50-150
Bromomethane	6300	0	5700	92	58-144
Vinyl chloride	6300	0	5900	94	20-164
Chloroethane	6300	0	6000	96	33-153
Methylene chloride	6300	230	7200	115	46-157
Acetone	6300	0	6800	108	50-187
Trichlorofluoromethane	6300	0	6100	98	65-145
1,1-Dichloroethene	6300	0	7400	119	65-142
Carbon disulfide	6300	0	6700	107	52-143
1,1,2-Trichloro-1,2,2-trifluoroethane	6300	0	6000	96	32-186
1,1-Dichloroethane	6300	0	7200	115	67-141
Chloroform	6300	0	7000	112	68-140
1,2-Dichloroethane	6300	0	6700	108	65-147
Methyl Acetate	6300	0	5700	91	60-140
2-Butanone	6300	410	6600	106	30-226
1,1,1-Trichloroethane	6300	0	8000	128*	78-127
trans-1,2-Dichloroethene	6300	0	7300	~~116~~	57-150
Carbon tetrachloride	6300	0	7200	115	70-136
Methyl tert-butyl ether	6300	0	6600	106	78-140
Bromodichloromethane	6300	0	6800	109	78-137
1,2-Dichloropropane	6300	0	7000	112	81-132
cis-1,2-Dichloroethene	6300	0	7400	118	57-150
cis-1,3-Dichloropropene	6300	0	6800	109	78-131
Trichloroethene	6300	0	8100	129	72-145
Dibromochloromethane	6300	0	7400	119	82-136
1,1,2-Trichloroethane	6300	0	7200	115	80-139
Benzene	6300	0	6500	104	71-142
Cyclohexane	6300	0	5300	85	60-140
trans-1,3-Dichloropropene	6300	0	6700	108	59-147

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

AECOM058 V8

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Dates: 10/9/2009 10/9/2009

Heated Purge: (Y/N) Y Calibration Times: 12:30 15:01

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3523.D VSTD010= G3524.D VSTD020= G3525.D VSTD050= G3526.D VSTD100= G3527.D
VSTD200= G3528.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
Chloromethane	2.9866490	2.8574809	2.8758224	2.6556806	2.7426660	2.3733170					2.749	7.9	
Dichlorodifluoromethane	1.8671908	1.8342235	1.8225512	1.6733094	1.7407128	1.5781005					1.753	6.3	
Bromomethane *	1.196528	1.2928470	1.2563962	1.2915723	1.4240252	1.2917412					1.292	5.8	*
Vinyl chloride *	2.2245144	2.3668109	2.1874086	2.1138209	2.2399388	1.9137812					2.174	7.0	*
Chloroethane	1.4051613	1.5955649	1.4784357	1.4654914	1.5158104	1.3046849					1.461	6.8	
Methylene chloride	9.3231093	6.1958285	4.0524488	2.8797338	2.6439891	2.2020925					4.550	60.3	
Acetone	1.3308162	0.8914205	0.7254203	0.6568651	0.6876612	0.6374649					0.822	32.3	
Trichlorofluoromethane	1.8909346	2.3669799	2.2991594	2.2628297	2.3767045	2.0646915					2.210	8.7	
1,1-Dichloroethene *	1.9345296	2.0443175	1.8991228	1.8849598	1.9759343	1.7187033					1.910	5.8	*
Carbon disulfide	6.9366704	7.4068690	7.0022844	6.8984775	7.2073782	6.2595778					6.952	5.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497					1.755	6.9	
1,1-Dichloroethane *	4.4054338	4.6665202	4.3943713	4.3201059	4.5457913	4.0543474					4.398	4.8	*
1,2-Dichloroethene (total)	2.3669768	2.5645663	2.3941886	2.383392	2.4954117	2.2345705					2.407	4.7	
Chloroform *	3.8729516	4.0908323	3.9502924	3.8599101	4.0162158	3.6371456					3.905	4.0	*
Freon-113	1.5480129	1.8773240	1.7805190	1.7984183	1.8423196	1.6840497					1.755	6.9	
1,2-Dichloroethane *	2.5257872	2.8694814	2.7324561	2.6977668	2.8222525	2.631627					2.713	4.6	*
Methyl Acetate	1.8126971	1.9488202	1.8125	1.7032714	1.8156372	1.6971941					1.798	5.1	
2-Butanone	1.5277724	1.3739774	1.2682749	1.1467791	1.2589187	1.1650126					1.290	11.0	
1,1,1-Trichloroethane *	0.550347	0.6198278	0.5877442	0.580825	0.6120924	0.5503538					0.584	5.1	*
trans-1,2-Dichloroethene	2.1665175	2.4420256	2.2755848	2.2518900	2.3721162	2.1147426					2.270	5.4	
Carbon tetrachloride *	0.4062679	0.4541976	0.4444585	0.4441292	0.4773440	0.4336803					0.443	5.3	*
Methyl tert-butyl ether	5.1204702	6.1819688	5.5594846	5.6635543	6.0415715	5.5813843					5.691	6.7	
Bromodichloromethane *	0.4835894	0.5289404	0.5084348	0.5089978	0.5417726	0.505834					0.513	3.9	*

AECOM058 V325

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Dates: 11/4/2009 11/4/2009

Heated Purge: (Y/N) Y Calibration Times: 18:26 21:04

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3798.D VSTD010= G3799.D VSTD020= G3800.D VSTD050= G3801.D VSTD100= G3802.D
VSTD200= G3803.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2	
Bromochloromethane	1	1	1	1	1	1					1.000	0.0		
Chloromethane	3.6662266	3.05436	3.1887477	2.6970434	2.927075	2.7011931					3.039	12.0		
Dichlorodifluoromethane	2.3291531	2.0866070	2.2817283	1.9704101	2.0778671	1.893857					2.107	8.1		
Bromomethane *	1.3373274	1.5105554	1.5566949	1.3817835	1.5052495	1.4057720					1.450	6.0		*
Vinyl chloride *	2.2400487	2.4028148	2.453745	2.1362423	2.2864507	2.1027086					2.270	6.2		*
Chloroethane	1.4926889	1.5786477	1.6022688	1.3880544	1.5030149	1.3599453					1.487	6.6		
Methylene chloride	6.4112002	4.464485	3.9485188	2.6814974	2.5148144	2.1623002					3.697	43.3		
Acetone	1.345197	0.8361231	0.8303611	0.6039580	0.6861669	0.5942063					0.816	34.3		
Trichlorofluoromethane	2.7117181	2.8101159	2.9184005	2.6838102	2.9674155	2.7590702					2.808	4.0		
1,1-Dichloroethene *	2.2418258	2.1507139	2.2301481	1.9684311	2.1281154	1.9505062					2.112	6.0		*
Carbon disulfide	7.6688160	7.6033340	7.9105984	6.9796614	7.6273942	7.0011088					7.465	5.1		
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7452782	1.9470064	2.1062441	1.8664044	2.1081934	1.9451139					1.953	7.2		
1,1-Dichloroethane *	4.2643176	4.2254788	4.3700773	3.8744158	4.2722984	3.9339398					4.157	4.9		*
1,2-Dichloroethene (total)	2.6095400	2.6055544	2.7090454	2.4062351	2.5797115	2.3823475					2.549	5.0		
Chloroform *	4.2155768	4.0905468	4.2072249	3.8357415	4.1554505	3.8110681					4.053	4.5		*
1,2-Dichloroethane *	2.8163079	2.814329	2.9485560	2.7234621	2.8925041	2.6588170					2.809	3.8		*
Methyl Acetate	2.6535845	2.3432625	2.463157	2.2692179	2.3989714	2.0598944					2.365	8.4		
2-Butanone	1.7384240	1.1224978	1.2418264	1.0951359	1.1673682	1.0118718					1.230	21.2		
1,1,1-Trichloroethane *	0.5997159	0.5412165	0.6272894	0.5738284	0.6227184	0.5707159					0.589	5.7		*
trans-1,2-Dichloroethene	2.3969334	2.4425543	2.5257592	2.2787077	2.4515961	2.2766209					2.395	4.2		
Carbon tetrachloride *	0.4921295	0.4665281	0.5545943	0.5168456	0.5539228	0.5150517					0.517	6.7		*
Methyl tert-butyl ether	5.5308184	5.7630207	5.9970526	5.5044111	5.9326791	5.4150693					5.691	4.3		
Bromodichloromethane *	0.6198753	0.5345827	0.6087507	0.5603188	0.5974769	0.5463936					0.578	6.1		*

AECOM058 V352

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Date: 10/23/09 Time: 16:37

Lab File ID: 09\G3661.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	3.004		9.3	
Dichlorodifluoromethane	1.753	1.708		-2.5	
Bromomethane	1.292	1.439	0.100	11.4	25.0
Vinyl chloride	2.174	1.792	0.100	-17.6	25.0
Chloroethane	1.461	1.206		-17.4	
Methylene chloride	4.550	2.552		43.9	
Acetone	0.822	0.968		17.8	
Trichlorofluoromethane	2.210	2.192		-0.8	
1,1-Dichloroethene	1.910	1.661	0.100	-13.0	25.0
Carbon disulfide	6.952	5.612		-19.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.433		-18.4	
1,1-Dichloroethane	4.398	4.108	0.200	-6.6	25.0
Chloroform	3.905	3.844	0.200	-1.6	25.0
1,2-Dichloroethane	2.713	2.913	0.100	7.4	25.0
Methyl Acetate	1.798	2.196		22.1	
2-Butanone	1.290	1.548		20.0	
1,1,1-Trichloroethane	0.584	0.480	0.100	-17.7	25.0
trans-1,2-Dichloroethene	2.270	2.002		-11.8	
Carbon tetrachloride	0.443	0.373	0.100	-15.9	25.0
Methyl tert-butyl ether	5.691	5.179		-9.0	
Bromodichloromethane	0.513	0.505	0.200	-1.5	25.0
1,2-Dichloropropane	0.428	0.415		-3.0	
cis-1,2-Dichloroethene	2.539	2.385		-6.1	
cis-1,3-Dichloropropene	0.685	0.705	0.200	2.9	25.0
Trichloroethene	0.398	0.367	0.300	-7.9	25.0
Dibromochloromethane	0.404	0.471	0.100	16.6	25.0
1,1,2-Trichloroethane	0.353	0.397	0.100	12.6	25.0
Benzene	1.388	1.286	0.500	-7.4	25.0
Cyclohexane	0.586	0.590		0.7	
trans-1,3-Dichloropropene	0.636	0.698	0.100	9.5	25.0
Bromoform	0.263	0.359	0.100	36.3	25.0
4-Methyl-2-pentanone	0.469	0.482		2.8	
2-Hexanone	0.373	0.400		7.2	
Tetrachloroethene	0.274	0.231	0.200	-15.7	25.0
1,1,2,2-Tetrachloroethane	0.517	0.560	0.500	8.3	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM058 V379

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Date: 10/30/09 Time: 19:54

Lab File ID: 09\G3725.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.749	1.753		-36.2	
Dichlorodifluoromethane	1.753	1.095		-37.5	
Bromomethane	1.292	1.185	0.100	-8.3	25.0
Vinyl chloride	2.174	1.462	0.100	-32.8	25.0
Chloroethane	1.461	1.151		-21.2	
Methylene chloride	4.550	2.311		-49.2	
Acetone	0.822	0.688		-16.3	
Trichlorofluoromethane	2.210	1.630		-26.3	
1,1-Dichloroethene	1.910	1.467	0.100	-23.2	25.0
Carbon disulfide	6.952	5.169		-25.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.755	1.444		-17.7	
1,1-Dichloroethane	4.398	3.533	0.200	-19.7	25.0
Chloroform	3.905	3.393	0.200	-13.1	25.0
1,2-Dichloroethane	2.713	2.836	0.100	4.5	25.0
Methyl Acetate	1.798	2.020		12.3	
2-Butanone	1.290	1.243		-3.7	
1,1,1-Trichloroethane	0.584	0.493	0.100	-15.5	25.0
trans-1,2-Dichloroethene	2.270	1.879		-17.2	
Carbon tetrachloride	0.443	0.376	0.100	-15.2	25.0
Methyl tert-butyl ether	5.691	6.591		15.8	
Bromodichloromethane	0.513	0.501	0.200	-2.3	25.0
1,2-Dichloropropane	0.428	0.387		-9.5	
cis-1,2-Dichloroethene	2.539	2.259		-11.0	
cis-1,3-Dichloropropene	0.685	0.649	0.200	-5.3	25.0
Trichloroethene	0.398	0.343	0.300	-13.9	25.0
Dibromochloromethane	0.404	0.445	0.100	10.1	25.0
1,1,2-Trichloroethane	0.353	0.376	0.100	6.6	25.0
Benzene	1.388	1.230	0.500	-11.4	25.0
Cyclohexane	0.586	0.452		-22.9	
trans-1,3-Dichloropropene	0.638	0.643	0.100	0.8	25.0
Bromoform	0.263	0.312	0.100	18.4	25.0
4-Methyl-2-pentanone	0.469	0.545		16.2	
2-Hexanone	0.373	0.403		8.0	
Tetrachloroethene	0.274	0.261	0.200	-4.7	25.0
1,1,2,2-Tetrachloroethane	0.517	0.606	0.500	17.2	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM058 V397

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Date: 10/30/09 Time: 19:54

Lab File ID: 09\G3725.D Init. Calib. Date(s): 10/09/09 10/09/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:30 15:01

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.401	0.383		-4.4	
Toluene	1.476	1.361	0.400	-7.8	25.0
Chlorobenzene	1.070	1.014	0.500	-5.2	25.0
Ethylbenzene	0.491	0.443	0.100	-9.8	25.0
Styrene	1.123	1.025	0.300	-8.8	25.0
m,p-Xylene	0.612	0.550	0.300	-10.1	25.0
o-Xylene	0.605	0.557	0.300	-7.9	25.0
1,2-Dibromoethane	0.402	0.479		19.2	
Isopropylbenzene	1.486	1.410		-5.1	
1,3-Dichlorobenzene	0.723	0.745		3.0	
1,4-Dichlorobenzene	0.744	0.768		3.3	
1,2-Dichlorobenzene	0.685	0.734		7.2	
1,2-Dibromo-3-chloropropane	0.088	0.105		18.8	
1,2,4-Trichlorobenzene	0.382	0.484		26.7	

All other compounds must meet a minimum RRF of 0.010.

AECOM058 V398

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972-2 Calibration Date: 11/04/09 Time: 23:16

Lab File ID: 09\G3806.D Init. Calib. Date(s): 11/04/09 11/04/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 18:26 21:04

Heated Purge: (Y/N) Y

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	3.039	3.070		1.0	
Dichlorodifluoromethane	2.107	1.895		-10.0	
Bromomethane	1.450	1.580	0.100	9.0	25.0
Vinyl chloride	2.270	2.275	0.100	0.2	25.0
Chloroethane	1.487	1.537		3.3	
Methylene chloride	3.697	2.592		-29.9	
Acetone	0.816	0.723		-11.4	
Trichlorofluoromethane	2.808	2.744		-2.3	
1,1-Dichloroethene	2.112	2.047	0.100	-3.1	25.0
Carbon disulfide	7.465	7.336		-1.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.953	1.695		-13.2	
1,1-Dichloroethane	4.157	4.137	0.200	-0.5	25.0
Chloroform	4.053	4.059	0.200	0.2	25.0
1,2-Dichloroethane	2.809	2.854	0.100	1.6	25.0
Methyl Acetate	2.365	1.824		-22.9	
2-Butanone	1.230	1.126		-8.4	
1,1,1-Trichloroethane	0.589	0.588	0.100	-0.2	25.0
trans-1,2-Dichloroethene	2.395	2.438		1.8	
Carbon tetrachloride	0.517	0.497	0.100	-3.8	25.0
Methyl tert-butyl ether	5.691	5.893		3.6	
Bromodichloromethane	0.578	0.593	0.200	2.6	25.0
1,2-Dichloropropane	0.424	0.438		3.3	
cis-1,2-Dichloroethene	2.692	2.702		0.4	
cis-1,3-Dichloropropene	0.696	0.715	0.200	2.8	25.0
Trichloroethene	0.438	0.445	0.300	1.7	25.0
Dibromochloromethane	0.448	0.456	0.100	1.6	25.0
1,1,2-Trichloroethane	0.362	0.369	0.100	2.0	25.0
Benzene	1.617	1.659	0.500	2.6	25.0
Cyclohexane	0.713	0.611		-14.3	
trans-1,3-Dichloropropene	0.667	0.689	0.100	3.2	25.0
Bromoform	0.326	0.333	0.100	2.0	25.0
4-Methyl-2-pentanone	0.446	0.434		-2.7	
2-Hexanone	0.346	0.340		-1.6	
Tetrachloroethene	0.342	0.326	0.200	-4.7	25.0
1,1,2,2-Tetrachloroethane	0.529	0.534	0.500	0.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM058 V403

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5971 Calibration Date: 11/11/09 Time: 11:31

Lab File ID: A\A67267.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	2.684		-9.7	
Dichlorodifluoromethane	2.062	1.296		-37.2	
Bromomethane	1.121	0.963	0.100	-14.1	25.0
Vinyl chloride	2.606	2.180	0.100	-16.3	25.0
Chloroethane	1.329	1.253		-5.8	
Methylene chloride	2.687	2.586		-3.8	
Acetone	0.698	0.610		-12.6	
Trichlorofluoromethane	2.198	2.196		-0.1	
1,1-Dichloroethene	1.934	1.815	0.100	-6.2	25.0
Carbon disulfide	8.200	7.599		-7.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	1.876		-2.9	
1,1-Dichloroethane	4.669	4.660	0.200	-0.2	25.0
Chloroform	4.180	4.269	0.200	2.1	25.0
1,2-Dichloroethane	3.142	3.107	0.100	-1.1	25.0
Methyl Acetate	2.540	2.149		-15.4	
2-Butanone	1.371	1.286		-6.2	
1,1,1-Trichloroethane	0.561	0.549	0.100	-2.2	25.0
trans-1,2-Dichloroethene	2.382	2.312		-2.9	
Carbon tetrachloride	0.444	0.416	0.100	-6.3	25.0
Methyl tert-butyl ether	6.769	6.433		-5.0	
Bromodichloromethane	0.611	0.607	0.200	-0.6	25.0
1,2-Dichloropropane	0.516	0.494		-4.2	
cis-1,2-Dichloroethene	2.757	2.830		2.7	
cis-1,3-Dichloropropene	0.811	0.790	0.200	-2.6	25.0
Trichloroethene	0.480	0.467	0.300	-2.8	25.0
Dibromochloromethane	0.504	0.497	0.100	-1.3	25.0
1,1,2-Trichloroethane	0.439	0.417	0.100	-5.0	25.0
Benzene	1.856	1.778	0.500	-4.2	25.0
Cyclohexane	0.721	0.688		-4.5	
trans-1,3-Dichloropropene	0.732	0.699	0.100	-4.5	25.0
Bromoform	0.360	0.361	0.100	0.4	25.0
4-Methyl-2-pentanone	0.650	0.592		-8.9	
2-Hexanone	0.401	0.369		-8.0	
Tetrachloroethene	0.384	0.387	0.200	0.7	25.0
1,1,2,2-Tetrachloroethane	0.607	0.583	0.500	-3.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM058 V415

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102309

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3662.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	5	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V431

1F

EPA SAMPLE NO.

VBLK102309

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102309

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3662.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/23/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.		(DEL) Alkane: Straight-Chain	3.12	22	J

AECOM058 V433

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK102609M

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102609M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67003.D

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	620	U
75-71-8	Dichlorodifluoromethane	620	U
74-83-9	Bromomethane	620	U
75-01-4	Vinyl chloride	620	U
75-00-3	Chloroethane	620	U
75-09-2	Methylene chloride	230	J
67-64-1	Acetone	3100	U
75-69-4	Trichlorofluoromethane	620	U
75-35-4	1,1-Dichloroethene	620	U
75-15-0	Carbon disulfide	620	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	620	U
75-34-3	1,1-Dichloroethane	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
79-20-9	Methyl Acetate	620	U
78-93-3	2-Butanone	410	J
71-55-6	1,1,1-Trichloroethane	620	U
156-60-5	trans-1,2-Dichloroethene	620	U
56-23-5	Carbon tetrachloride	620	U
1634-04-4	Methyl tert-butyl ether	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
156-59-2	cis-1,2-Dichloroethene	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
110-82-7	Cyclohexane	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	3100	U
591-78-6	2-Hexanone	3100	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U

AECOM058 V447

1F

EPA SAMPLE NO.

VBLK102609M

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK102609M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67003.D

Level: (low/med) MED Date Received:

% Moisture: not deo. Date Analyzed: 10/26/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	14.25	1000	JNX
2. 003789-85-3	Benzoic acid, 2-((trimethylsilyl)ox	16.81	1200	JNX
3.	unknown	19.58	1500	JX

AECOM058 V449

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK103009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK103009

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3729.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 10/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	12	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V458

1F

EPA SAMPLE NO.

VBLK110309

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) WATER Lab Sample ID: VBLK110309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67114.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	3.36	9	J
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	14.25	6	JNX

AECOM058 V469

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110309M

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK110309M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67115.D

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	620	U
75-71-8	Dichlorodifluoromethane	620	U
74-83-9	Bromomethane	620	U
75-01-4	Vinyl chloride	620	U
75-00-3	Chloroethane	620	U
75-09-2	Methylene chloride	620	U
67-64-1	Acetone	3100	U
75-69-4	Trichlorofluoromethane	620	U
75-35-4	1,1-Dichloroethene	620	U
75-15-0	Carbon disulfide	620	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	620	U
75-34-3	1,1-Dichloroethane	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
79-20-9	Methyl Acetate	620	U
78-93-3	2-Butanone	300	J
71-55-6	1,1,1-Trichloroethane	620	U
156-60-5	trans-1,2-Dichloroethene	620	U
56-23-5	Carbon tetrachloride	620	U
1634-04-4	Methyl tert-butyl ether	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
156-59-2	cis-1,2-Dichloroethene	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
110-82-7	Cyclohexane	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	3100	U
591-78-6	2-Hexanone	3100	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U

AECOM058 V476

1F

EPA SAMPLE NO.

VBLK110309M

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK110309M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67115.D

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	3.36	1100	J

AECOM058 V478

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK110409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: VBLK110409

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G3807.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/04/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	6	
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM058 V485

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-33426

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: MB-33426

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50021.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
12-03-3	3-Methylphenol/4-Methylphenol	330	U
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	Bis(2-chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-chloropropane)	330	U
98-86-2	Acetophenone	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	Bis(2-chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	330	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	330	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	330	U
100-02-7	4-Nitrophenol	330	U
132-64-9	Dibenzofuran	330	U

AECOM058 B514

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-33426

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Matrix: (soil/water) SOIL Lab Sample ID: MB-33426

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50021.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 10/26/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 10/28/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	330	U
534-52-1	4,6-Dinitro-2-methylphenol	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	330	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	130	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM058 B515

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/28/09

Lab File ID (Standard): A\C50011.D Time Analyzed: 12:38

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	86287	4.92	290002	6.58	157051	9.71
	UPPER LIMIT	172574	5.42	580004	7.08	314102	10.21
	LOWER LIMIT	43144	4.42	145001	6.08	78526	9.21
	EPA SAMPLE NO.						
01	MB-33426	66695	4.91	221262	6.56	114069	9.70
02	LFB-33426	63243	4.91	213951	6.57	109919	9.69
03	SB-3 (46-48)	65813	4.91	225091	6.56	118449	9.69
04	SB-8 (24-26)	56308	4.91	89325* 30.3	6.65	96769	9.75
05	SB-3 (36-38)	56449	4.91	99758* 34.4	6.64	103019	9.78

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 10/28/09

Lab File ID (Standard): A\C50011.D Time Analyzed: 12:38

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
	12 HOUR STD	215194	12.54	181989	15.41	165933	16.60
	UPPER LIMIT	430388	13.04	363978	15.91	331866	17.10
	LOWER LIMIT	107597	12.04	90995	14.91	82967	16.10
	EPA SAMPLE NO.						
01	MB-33426	159521	12.51	121462	15.39	113959	16.59
02	LFB-33426	158867	12.52	123177	15.40	119694	16.59
03	SB-3 (46-48)	163519	12.51	130326	15.39	124558	16.59
04	SB-8 (24-26)	122160	12.61	89433* 40.1	15.45	43965* 26.5	16.63
05	SB-3 (36-38)	94833* 44.1	12.59	56513* 31.0	15.49	25465* 15.3	16.64

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

AECOM058 B25

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Sample ID LFB-33426 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 10/28/09 18:17 10/06/09 20:26

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1200	74	37-137
Benzaldehyde	1700	0	350	21*	40-140
Phenol	1700	0	1300	76	25-131
Bis(2-chloroethyl)ether	1700	0	1200	74	39-111
2-Chlorophenol	1700	0	1300	80	48-116
2-Methylphenol	1700	0	1300	77	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1300	79	28-146
Acetophenone	1700	0	1300	76	60-140
N-Nitroso-di-n-propylamine	1700	0	1300	80	40-124
Hexachloroethane	1700	0	1200	74	41-119
Nitrobenzene	1700	0	1300	78	48-126
Isophorone	1700	0	1200	75	33-131
2-Nitrophenol	1700	0	1300	78	41-121
2,4-Dimethylphenol	1700	0	1100	65	39-135
Bis(2-chloroethoxy)methane	1700	0	1000	61	20-148
2,4-Dichlorophenol	1700	0	1400	84	46-130
Naphthalene	1700	0	1300	80	47-117
4-Chloroaniline	1700	0	1200	71	26-133
Hexachlorobutadiene	1700	0	1300	77	11-135
Caprolactam	1700	0	1300	76	40-140
4-Chloro-3-methylphenol	1700	0	1400	83	45-135
2-Methylnaphthalene	1700	0	1300	81	60-140
Hexachlorocyclopentadiene	1700	0	1200	75	13-119
2,4,6-Trichlorophenol	1700	0	1400	86	53-131
2,4,5-Trichlorophenol	1700	0	1500	88	48-132
1,1'-Biphenyl	1700	0	1400	84	40-140
2-Chloronaphthalene	1700	0	1300	77	47-123
2-Nitroaniline	1700	0	1400	87	41-131
Dimethylphthalate	1700	0	1300	77	10-162
2,6-Dinitrotoluene	1700	0	1400	84	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM058 B5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Sample ID LFB-33511 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 11/04/09 21:34 10/06/09 20:26

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1100	65	37-137
Benzaldehyde	1700	0	350	21*	40-140
Phenol	1700	0	1100	66	26-131
Bis(2-chloroethyl)ether	1700	0	1000	63	39-111
2-Chlorophenol	1700	0	1300	76	48-116
2-Methylphenol	1700	0	1200	75	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1200	74	28-146
Acetophenone	1700	0	1400	86	60-140
N-Nitroso-di-n-propylamine	1700	0	1200	69	40-124
Hexachloroethane	1700	0	1200	72	41-119
Nitrobenzene	1700	0	1200	73	48-126
Isophorone	1700	0	1100	68	33-131
2-Nitrophenol	1700	0	1300	80	41-121
2,4-Dimethylphenol	1700	0	970	58	39-135
Bis(2-chloroethoxy)methane	1700	0	910	55	20-148
2,4-Dichlorophenol	1700	0	1400	81	46-130
Naphthalene	1700	0	1300	79	47-117
4-Chloroaniline	1700	0	1000	61	25-133
Hexachlorobutadiene	1700	0	1400	85	11-135
Caprolactam	1700	0	1500	91	40-140
4-Chloro-3-methylphenol	1700	0	1200	74	45-135
2-Methylnaphthalene	1700	0	1400	86	60-140
Hexachlorocyclopentadiene	1700	0	1400	83	13-119
2,4,6-Trichlorophenol	1700	0	1300	75	53-131
2,4,5-Trichlorophenol	1700	0	1400	86	48-132
1,1'-Biphenyl	1700	0	1700	101	40-140
2-Chloronaphthalene	1700	0	1300	81	47-123
2-Nitroaniline	1700	0	1200	72	41-131
Dimethylphthalate	1700	0	1400	83	10-162
2,6-Dinitrotoluene	1700	0	1300	80	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS:

AECOM058 B8

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Sample ID LFB-33599 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 10/06/09 17:53

Analysis Date: 11/06/09 8:42 10/06/09 20:26

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	1700	0	1300	79	37-137
Benzaldehyde	1700	0	2900	173*	40-140
Phenol	1700	0	1500	93	25-131
Bis(2-chloroethyl)ether	1700	0	1500	87	39-111
2-Chlorophenol	1700	0	1400	83	48-116
2-Methylphenol	1700	0	1400	84	41-131
2,2'-oxybis(1-chloropropane)	1700	0	1500	90	28-146
Acetophenone	1700	0	1600	93	60-140
N-Nitroso-di-n-propylamine	1700	0	1500	89	40-124
Hexachloroethane	1700	0	1300	77	41-119
Nitrobenzene	1700	0	1600	98	48-126
Isophorone	1700	0	1600	96	33-131
2-Nitrophenol	1700	0	1400	82	41-121
2,4-Dimethylphenol	1700	0	1300	78	39-135
Bis(2-chloroethoxy)methane	1700	0	1200	75	20-148
2,4-Dichlorophenol	1700	0	1400	86	46-130
Naphthalene	1700	0	1300	78	47-117
4-Chloroaniline	1700	0	1200	74	25-133
Hexachlorobutadiene	1700	0	1200	73	11-135
Caprolactam	1700	0	1500	92	40-140
4-Chloro-3-methylphenol	1700	0	1600	96	45-135
2-Methylnaphthalene	1700	0	1300	78	60-140
Hexachlorocyclopentadiene	1700	0	1100	65	13-119
2,4,6-Trichlorophenol	1700	0	1400	85	53-131
2,4,5-Trichlorophenol	1700	0	1400	86	48-132
1,1'-Biphenyl	1700	0	1300	81	40-140
2-Chloronaphthalene	1700	0	1200	74	47-123
2-Nitroaniline	1700	0	1600	98	41-131
Dimethylphthalate	1700	0	1400	84	10-162
2,6-Dinitrotoluene	1700	0	1400	82	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 65 outside limits

COMMENTS: _____

AECOM058 B11

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM058

Instrument ID: HP5972 Calibration Dates: 10/6/09 10/6/09

Heated Purge: (Y/N) N Calibration Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C49495.D SSTD010= C49494.D SSTD025= C49493.D SSTD040= C49492.D SSTD080= C49490.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R^2	
3-Methylphenol/4-Methylphenol	1.4829164	1.5687206	1.4918488	1.4659627	1.2956223						1.461	6.9		
Aniline	2.0882545	2.1356807	2.0115845	2.1008987	2.0942669						2.086	2.2		
Benzidine	0.3137687	0.4206642	0.4848849	0.4004424	0.3530618						0.395	16.6		
Benzoic acid	0	0.0777999	0.1614543	0.1944469	0.1535314						0.147	33.6		
Benzyl alcohol	0.8431757	0.9697714	0.9470340	0.9618931	0.9216553						0.929	5.5		
Octachlorocyclopentene	0.1217956	0.1231964	0.1368229	0.1356654	0.1505415						0.134	8.8		
Pyridine	1.8586255	2.0561174	1.9503466	2.0308351	2.1362303						2.006	5.3		
Benzaldehyde	0.8526913	0.8894985	0.5831984	0.3899251	0.0586582						0.555	62.1		
N-Nitrosodimethylamine	0.9246856	1.0708427	0.9780274	1.1525122	1.2307695						1.071	11.6		
Phenol *	2.2225708	2.3630160	2.2633839	2.2991091	2.301919						2.290	2.3	*	
Bis(2-chloroethyl)ether *	1.7627376	1.9620880	1.9115072	1.9911108	1.9665798						1.919	4.8	*	
2-Chlorophenol *	1.4660288	1.5214739	1.4846864	1.5294981	1.5744476						1.515	2.8	*	
2-Methylphenol *	1.3099103	1.4103037	1.3298173	1.3922012	1.4375128						1.376	3.9	*	
2,2'-oxybis(1-chloropropane)	4.3420385	4.5085773	4.2117554	4.230839	4.2609903						4.311	2.8		
Acetophenone	1.5842940	1.8842989	1.7120145	1.7757741	1.8146758						1.754	6.5		
4-Methylphenol *	1.4829164	1.5687206	1.4918488	1.4659627	1.2956223						1.461	6.9	*	
N-Nitroso-di-n-propylamine *	1.12467	1.1714227	1.0822719	1.0452091	0.9529891						1.075	7.7	*	
Hexachloroethane *	0.6079000	0.641665	0.6260747	0.6402121	0.5628412						0.616	5.3	*	
Nitrobenzene *	0.3980658	0.4002757	0.4031717	0.419815	0.4035429						0.405	2.1	*	
Isophorone *	0.8572097	0.8654117	0.913568	0.93717	0.9085248						0.896	3.8	*	
2-Nitrophenol *	0.2254612	0.2374589	0.2525809	0.2692455	0.2659509						0.250	7.5	*	
2,4-Dimethylphenol *	0.370073	0.3698597	0.3710535	0.3866946	0.3720445						0.374	1.9	*	
Bis(2-chloroethoxy)methane *	0.5917609	0.6304175	0.6408542	0.6406414	0.5937057						0.619	4.0	*	

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 10/28/09 Time: 12:38

Lab File ID: A\C50011.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.491		2.1	
Benzaldehyde	0.555	0.273		-50.8	
Phenol	2.290	2.205	0.800	-3.7	25.0
Bis(2-chloroethyl)ether	1.919	1.761	0.700	-8.2	25.0
2-Chlorophenol	1.515	1.467	0.800	-3.2	25.0
2-Methylphenol	1.376	1.401	0.700	1.8	25.0
2,2'-oxybis(1-chloropropane)	4.311	3.983		-7.6	
Acetophenone	1.754	1.691		-3.6	
N-Nitroso-di-n-propylamine	1.075	1.024	0.500	-4.8	25.0
Hexachloroethane	0.616	0.619	0.300	0.5	25.0
Nitrobenzene	0.405	0.404	0.200	-0.2	25.0
Isophorone	0.896	0.874	0.400	-2.5	25.0
2-Nitrophenol	0.250	0.256	0.100	2.3	25.0
2,4-Dimethylphenol	0.374	0.372	0.200	-0.5	25.0
Bis(2-chloroethoxy)methane	0.619	0.653	0.300	5.4	25.0
2,4-Dichlorophenol	0.309	0.317	0.200	2.5	25.0
Naphthalene	1.076	1.072	0.700	-0.4	25.0
4-Chloroaniline	0.488	0.497		1.9	
Hexachlorobutadiene	0.151	0.142		-5.7	
Caprolactam	0.134	0.129		-3.7	
4-Chloro-3-methylphenol	0.314	0.309	0.200	-1.5	25.0
2-Methylnaphthalene	0.674	0.669	0.400	-0.7	25.0
Hexachlorocyclopentadiene	0.271	0.201		-25.8	
2,4,6-Trichlorophenol	0.365	0.368	0.200	0.9	25.0
2,4,5-Trichlorophenol	0.399	0.387	0.200	-2.9	25.0
1,1'-Biphenyl	1.410	1.283		-9.0	
2-Chloronaphthalene	1.267	1.203	0.800	-5.0	25.0
2-Nitroaniline	0.433	0.411		-5.1	
Dimethylphthalate	1.398	1.500		7.3	
2,6-Dinitrotoluene	0.361	0.363	0.200	0.5	25.0
Acenaphthylene	1.922	1.824	1.300	-5.1	25.0
3-Nitroaniline	0.410	0.400		-2.4	
Acenaphthene	1.174	1.102	0.800	-6.1	25.0
2,4-Dinitrophenol	0.184	0.201		9.4	
4-Nitrophenol	0.151	0.147		-2.6	
Dibenzofuran	1.585	1.541	0.800	-2.8	25.0
2,4-Dinitrotoluene	0.453	0.457	0.200	0.8	25.0
Diethylphthalate	1.311	1.265		-3.5	

All other compounds must meet a minimum RRF of 0.010.

AECOM058 B456

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 10/29/09 Time: 16:29

Lab File ID: A\C50054.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.472		0.8	
Benzaldehyde	0.555	0.249		-55.1	
Phenol	2.290	2.280	0.800	-0.4	25.0
Bis(2-chloroethyl)ether	1.919	1.812	0.700	-5.6	25.0
2-Chlorophenol	1.515	1.507	0.800	-0.5	25.0
2-Methylphenol	1.376	1.509	0.700	9.7	25.0
2,2'-oxybis(1-chloropropane)	4.311	4.228		-1.9	
Acetophenone	1.754	1.765		0.6	
N-Nitroso-di-n-propylamine	1.075	1.114	0.500	3.6	25.0
Hexachloroethane	0.616	0.638	0.300	3.6	25.0
Nitrobenzene	0.405	0.416	0.200	2.7	25.0
Isophorone	0.896	0.906	0.400	1.1	25.0
2-Nitrophenol	0.250	0.254	0.100	1.5	25.0
2,4-Dimethylphenol	0.374	0.372	0.200	-0.5	25.0
Bis(2-chloroethoxy)methane	0.619	0.653	0.300	5.4	25.0
2,4-Dichlorophenol	0.309	0.322	0.200	4.1	25.0
Naphthalene	1.076	1.080	0.700	0.4	25.0
4-Chloroaniline	0.488	0.504		3.3	
Hexachlorobutadiene	0.151	0.149		-1.0	
Caprolactam	0.134	0.126		-5.9	
4-Chloro-3-methylphenol	0.314	0.306	0.200	-2.5	25.0
2-Methylnaphthalene	0.674	0.690	0.400	2.4	25.0
Hexachlorocyclopentadiene	0.271	0.201		-25.8	
2,4,6-Trichlorophenol	0.365	0.349	0.200	-4.3	25.0
2,4,5-Trichlorophenol	0.399	0.388	0.200	-2.7	25.0
1,1'-Biphenyl	1.410	1.298		-7.9	
2-Chloronaphthalene	1.267	1.213	0.800	-4.2	25.0
2-Nitroaniline	0.433	0.413		-4.7	
Dimethylphthalate	1.398	1.491		6.7	
2,6-Dinitrotoluene	0.361	0.352	0.200	-2.5	25.0
Acenaphthylene	1.922	1.803	1.300	-6.2	25.0
3-Nitroaniline	0.410	0.387		-5.6	
Acenaphthene	1.174	1.082	0.800	-7.8	25.0
2,4-Dinitrophenol	0.184	0.218		18.7	
4-Nitrophenol	0.151	0.152		0.7	
Dibenzofuran	1.585	1.515	0.800	-4.4	25.0
2,4-Dinitrotoluene	0.453	0.454	0.200	0.1	25.0
Diethylphthalate	1.311	1.287		-1.8	

Not used.

Not used.

All other compounds must meet a minimum RRF of 0.010.

AECOM058 B465

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 11/4/09 Time: 15:31

Lab File ID: A\C50208.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.507		3.1	
Benzaldehyde	0.555	0.235		-57.6	
Phenol	2.290	2.291	0.800	0.0	25.0
Bis(2-chloroethyl)ether	1.919	1.945	0.700	1.4	25.0
2-Chlorophenol	1.515	1.477	0.800	-2.5	25.0
2-Methylphenol	1.376	1.399	0.700	1.7	25.0
2,2'-oxybis(1-chloropropane)	4.311	4.297		-0.3	
Acetophenone	1.754	1.759		0.3	
N-Nitroso-di-n-propylamine	1.075	1.100	0.500	2.3	25.0
Hexachloroethane	0.616	0.633	0.300	2.8	25.0
Nitrobenzene	0.405	0.419	0.200	3.5	25.0
Isophorone	0.896	0.930	0.400	3.8	25.0
2-Nitrophenol	0.250	0.248	0.100	-0.9	25.0
2,4-Dimethylphenol	0.374	0.376	0.200	0.5	25.0
Bis(2-chloroethoxy)methane	0.619	0.684	0.300	10.4	25.0
2,4-Dichlorophenol	0.309	0.312	0.200	0.9	25.0
Naphthalene	1.076	1.089	0.700	1.2	25.0
4-Chloroaniline	0.488	0.486		-0.4	
Hexachlorobutadiene	0.151	0.143		-5.0	
Caprolactam	0.134	0.128		-4.4	
4-Chloro-3-methylphenol	0.314	0.312	0.200	-0.6	25.0
2-Methylnaphthalene	0.674	0.669	0.400	-0.7	25.0
Hexachlorocyclopentadiene	0.271	0.169		-37.6	
2,4,6-Trichlorophenol	0.365	0.361	0.200	-1.0	25.0
2,4,5-Trichlorophenol	0.399	0.366	0.200	-8.2	25.0
1,1'-Biphenyl	1.410	1.312		-6.9	
2-Chloronaphthalene	1.267	1.095	0.800	-13.6	25.0
2-Nitroaniline	0.433	0.434		0.2	
Dimethylphthalate	1.398	1.308		-6.4	
2,6-Dinitrotoluene	0.361	0.359	0.200	-0.6	25.0
Acenaphthylene	1.922	1.824	1.300	-5.1	25.0
3-Nitroaniline	0.410	0.387		-5.6	
Acenaphthene	1.174	1.112	0.800	-5.2	25.0
2,4-Dinitrophenol	0.184	0.203		10.5	
4-Nitrophenol	0.151	0.152		0.7	
Dibenzofuran	1.585	1.539	0.800	-2.9	25.0
2,4-Dinitrotoluene	0.453	0.455	0.200	0.4	25.0
Diethylphthalate	1.311	1.303		-0.6	

All other compounds must meet a minimum RRF of 0.010.

AECOM058 B475

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 11/5/09 Time: 22:14

Lab File ID: A\C50256.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.243		-14.9	
Benzaldehyde	0.555	0.247		-55.5	
Phenol	2.290	1.652	0.800	-27.9	25.0
Bis(2-chloroethyl)ether	1.919	1.385	0.700	-27.8	25.0
2-Chlorophenol	1.515	1.361	0.800	-10.2	25.0
2-Methylphenol	1.376	1.166	0.700	-15.3	25.0
2,2'-oxybis(1-chloropropane)	4.311	4.258		-1.2	
Acetophenone	1.754	1.354		-22.8	
N-Nitroso-di-n-propylamine	1.075	0.949	0.500	-11.7	25.0
Hexachloroethane	0.616	0.581	0.300	-5.6	25.0
Nitrobenzene	0.405	0.323	0.200	-20.2	25.0
Isophorone	0.896	0.680	0.400	-24.1	25.0
2-Nitrophenol	0.250	0.233	0.100	-6.9	25.0
2,4-Dimethylphenol	0.374	0.299	0.200	-20.0	25.0
Bis(2-chloroethoxy)methane	0.619	0.510	0.300	-17.7	25.0
2,4-Dichlorophenol	0.309	0.297	0.200	-4.0	25.0
Naphthalene	1.076	1.031	0.700	-4.2	25.0
4-Chloroaniline	0.488	0.470		-3.7	
Hexachlorobutadiene	0.151	0.153		1.6	
Caprolactam	0.134	0.102		-23.9	
4-Chloro-3-methylphenol	0.314	0.247	0.200	-21.3	25.0
2-Methylnaphthalene	0.674	0.678	0.400	0.7	25.0
Hexachlorocyclopentadiene	0.271	0.192		-29.2	
2,4,6-Trichlorophenol	0.365	0.338	0.200	-7.4	25.0
2,4,5-Trichlorophenol	0.399	0.360	0.200	-9.7	25.0
1,1'-Biphenyl	1.410	1.400		-0.7	
2-Chloronaphthalene	1.267	1.195	0.800	-5.7	25.0
2-Nitroaniline	0.433	0.373		-13.9	
Dimethylphthalate	1.398	1.302		-6.8	
2,6-Dinitrotoluene	0.361	0.354	0.200	-2.0	25.0
Acenaphthylene	1.922	1.816	1.300	-5.5	25.0
3-Nitroaniline	0.410	0.376		-8.3	
Acenaphthene	1.174	1.130	0.800	-3.7	25.0
2,4-Dinitrophenol	0.184	0.094		-48.8	
4-Nitrophenol	0.151	0.133		-11.9	
Dibenzofuran	1.585	1.511	0.800	-4.7	25.0
2,4-Dinitrotoluene	0.453	0.441	0.200	-2.7	25.0
Diethylphthalate	1.311	1.306		-0.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM058 B486

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 11/5/09 Time: 22:14

Lab File ID: A\C50256.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.243	1.198	0.900	-3.6	25.0
4-Chlorophenyl-phenylether	0.546	0.526	0.400	-3.7	25.0
4-Nitroaniline	0.401	0.342		-14.8	
4,6-Dinitro-2-methylphenol	0.181	0.108		-40.4	
N-Nitrosodiphenylamine	0.782	0.721		-7.8	
4-Bromophenyl-phenylether	0.229	0.231	0.100	0.9	25.0
Hexachlorobenzene	0.267	0.262	0.100	-1.9	25.0
Atrazine	0.162	0.163		0.9	
Pentachlorophenol	0.153	0.146	0.050	-4.7	25.0
Phenanthrene	1.143	1.082	0.700	-5.3	25.0
Anthracene	1.165	1.112	0.700	-4.5	25.0
Carbazole	1.130	1.066		-5.7	
Di-n-butyl phthalate	1.641	1.627		-0.9	
Fluoranthene	1.079	1.034	0.600	-4.2	25.0
Pyrene	1.320	1.188	0.600	-10.0	25.0
Butyl benzyl phthalate	0.812	0.808		-0.5	
3,3'-Dichlorobenzidine	0.356	0.369		3.7	
Benzo(a)anthracene	1.096	1.075	0.800	-1.9	25.0
Chrysene	1.066	0.981	0.700	-7.9	25.0
Bis(2-ethylhexyl)phthalate	1.072	1.100		2.6	
Di-n-octyl phthalate	2.216	2.159		-2.6	
Benzo(b)fluoranthene	1.372	1.236	0.700	-9.9	25.0
Benzo(k)fluoranthene	1.027	1.077	0.700	4.9	25.0
Benzo(a)pyrene	1.118	1.124	0.700	0.5	25.0
Indeno(1,2,3-cd)pyrene	1.289	1.205	0.500	-6.5	25.0
Dibenzo(a,h)anthracene	1.058	0.971	0.400	-8.2	25.0
Benzo(g,h,i)perylene	1.099	0.990	0.500	-9.9	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM058 B487

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Instrument ID: HP5972 Calibration Date: 11/9/09 Time: 17:17

Lab File ID: A\C50344.D Init. Calib. Date(s): 10/06/09 10/06/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 17:53 20:26

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.461	1.357		-7.1	
Benzaldehyde	0.555	0.255		-54.0	
Phenol	2.290	1.892	0.800	-17.4	25.0
Bis(2-chloroethyl)ether	1.919	1.542	0.700	-19.6	25.0
2-Chlorophenol	1.515	1.395	0.800	-7.9	25.0
2-Methylphenol	1.376	1.188	0.700	-13.7	25.0
2,2'-oxybis(1-chloropropane)	4.311	3.550		-17.6	
Acetophenone	1.754	1.483		-15.5	
N-Nitroso-di-n-propylamine	1.075	1.034	0.500	-3.8	25.0
Hexachloroethane	0.616	0.609	0.300	-1.1	25.0
Nitrobenzene	0.405	0.357	0.200	-11.8	25.0
Isophorone	0.896	0.753	0.400	-16.0	25.0
2-Nitrophenol	0.250	0.244	0.100	-2.5	25.0
2,4-Dimethylphenol	0.374	0.326	0.200	-12.8	25.0
Bis(2-chloroethoxy)methane	0.619	0.567	0.300	-8.5	25.0
2,4-Dichlorophenol	0.309	0.309	0.200	-0.1	25.0
Naphthalene	1.076	1.040	0.700	-3.4	25.0
4-Chloroaniline	0.488	0.475		-2.7	
Hexachlorobutadiene	0.151	0.156		3.6	
Caprolactam	0.134	0.108		-19.4	
4-Chloro-3-methylphenol	0.314	0.276	0.200	-12.0	25.0
2-Methylnaphthalene	0.674	0.656	0.400	-2.6	25.0
Hexachlorocyclopentadiene	0.271	0.173		-36.2	
2,4,6-Trichlorophenol	0.365	0.367	0.200	0.6	25.0
2,4,5-Trichlorophenol	0.399	0.373	0.200	-6.5	25.0
1,1'-Biphenyl	1.410	1.345		-4.6	
2-Chloronaphthalene	1.267	1.177	0.800	-7.1	25.0
2-Nitroaniline	0.433	0.348		-19.7	
Dimethylphthalate	1.398	1.445		3.4	
2,6-Dinitrotoluene	0.361	0.354	0.200	-2.0	25.0
Acenaphthylene	1.922	1.786	1.300	-7.1	25.0
3-Nitroaniline	0.410	0.354		-13.6	
Acenaphthene	1.174	1.138	0.800	-3.0	25.0
2,4-Dinitrophenol	0.184	0.192		4.5	
4-Nitrophenol	0.151	0.122		-19.2	
Dibenzofuran	1.585	1.534	0.800	-3.2	25.0
2,4-Dinitrotoluene	0.453	0.436	0.200	-3.8	25.0
Diethylphthalate	1.311	1.250		-4.6	

All other compounds must meet a minimum RRF of 0.010.

Field blank only

AECOM058 B495

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-33426	73	83	85	84	89	96	75	81	0
02	LFB-33426	69	77	80	88	84	89	72	76	0
03	SB-3 (46-48)	90	91	99	99	100	100	88	88	0
04	SB-8 (24-26)	105	69	99	107	141 *	194 *	75	99	2
05	SB-3 (36-38)	76	150 *	89	75	162 *	342 *	72	75	3
06	SB-3 (36-38)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
07	SB-8 (24-26)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
08	MB-33511	67	79	79	89	95	94	77	85	0
09	LFB-33511	69	80	79	94	93	89	78	86	0
10	SB-17 (40-42)	63	73	75	91	86	91	73	80	0
11	SB-17 (36-38)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
12	SB-17 (16-18)	34	71	56	88	97	111	49	70	0
13	SB-17 (36-38)	43	77	55	92	81	115	52	57	0
14	SB-17 (16-18)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
15	MB-33599	82	106	102	77	91	97	78	84	0
16	LFB-33599	84	102	102	84	89	90	79	82	0
17	SB-7 (38-40)	102	111	115 *	92	96	95	89	91	1
18	SB-7 (44-46)	103	115	116 *	93	100	98	91	93	1

			QC LIMITS	
S1	2FP	= 2-Fluorophenol	(25-121)	
S2	NBZ	= Nitrobenzene-d5	(23-120)	
S3	PD5	= Phenol-d5	(24-113)	
S4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S5	FBP	= 2-Fluorobiphenyl	(30-115)	
S6	TPH	= 4-Terphenyl-d14	(18-137)	
S7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM058 B3

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-33453	79	77	102	102			0
02	LFB1-33453	77	72	92	91			0
03	LFB3-33453	77	71	97	99			0
04	SB-17 (40-42)	83	77	112	104			0
05	SB-3 (46-48)	78	72	117	111			0
06	SB-17 (16-18)	41	64	291 *	403 *			2
07	SB-17 (36-38)	81	65	158 *	906 *			2
08	MB-33603	74	76	92	88			0
09	LFB1-33603	95	93	110	108			0
10	LFB3-33603	76	78	104	107			0
11	SB-7 (38-40)	101	86	107	107			0
12	SB-7 (44-46)	92	91	111	109			0
13	SB-17 (16-18)DL	0 D	0 D	0 D	0 D			0
14	SB-3 (36-38)	0 D	0 D	0 D	0 D			0
15	SB-8 (24-26)	0 D	0 D	0 D	0 D			0

QC Limits

TCX = Tetrachloro-m-xylene (30-150)

DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

AECOM058 PE3

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911469-001B Date(s) Analyzed: 11/05/09 11/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.77	3.71	3.81	41		
	2	3.75	3.68	3.78	87	112.2	72 - U@SQL
4,4´-DDE	1	6.07	5.98	6.12	190		
	2	6.30	6.19	6.33	60	216.7	104 - U@SQL
Endosulfan II	1	7.02	6.96	7.10	650		
	2	7.09	7.01	7.15	610	6.6	6.3 - OK
4,4´-DDD	1	6.85	6.78	6.92	150		
	2	7.01	6.92	7.06	550	266.7	114 - NJ
Endosulfan sulfate	1	7.91	7.83	7.97	4600		
	2	7.72	7.64	7.78	1200	283.3	117 - NJ
4,4´-DDT	1	7.16	7.10	7.24	1500		
	2	7.31	7.26	7.40	1500	0.0	0 - OK
Methoxychlor	1	7.65	7.59	7.73	380		
	2	7.98	7.91	8.05	470	23.7	21 - OK
alpha-Chlordane	1	5.89	5.86	6.00	560		
	2	5.97	5.92	6.06	200	180.0	94.7 - NJ
gamma-Chlordane	1	5.71	5.64	5.78	380		
	2	5.74	5.68	5.82	110	245.5	110 - NJ

AECOM058 PE181

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-8 (24-26)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911469-003B Date(s) Analyzed: 11/05/09 11/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Endosulfan II	1	7.02	6.96	7.10	640		
	2	7.08	7.01	7.15	450	42.2	35-OK
Endosulfan sulfate	1	7.90	7.83	7.97	4000		
	2	7.72	7.64	7.78	220	999.9	179 - NJ
4,4'-DDT	1	7.16	7.10	7.24	1600		
	2	7.31	7.26	7.40	1600	0.0	0 - OK
Methoxychlor	1	7.65	7.59	7.73	790		
	2	7.97	7.91	8.05	380	107.9	70.1 U@SQL
Endrin ketone	1	8.15	8.08	8.22	230		
	2	8.20	8.11	8.25	53	334.0	125 U@SQL
Endrin aldehyde	1	7.48	7.41	7.55	310		
	2	7.44	7.37	7.51	150	106.7	69.6 - J
alpha-Chlordane	1	5.88	5.86	6.00	850		
	2	6.00	5.92	6.06	150	466.7	140 - NJ
gamma-Chlordane	1	5.71	5.64	5.78	460		
	2	5.73	5.68	5.82	100	360.0	129 - NJ

AECOM058 PE182

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911584-001B Date(s) Analyzed: 10/28/09 10/28/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.85	3.76	3.86	4.5		
	2	3.81	3.72	3.82	20	344.4	126 - NJ
delta-BHC	1	3.98	3.98	4.08	30		
	2	4.13	4.08	4.18	1.9	999.9	176 - U@SQL
gamma-BHC	1	3.71	3.67	3.77	1.1		
	2	3.68	3.64	3.74	3.6	227.3	106 - U@SQL
Aldrin	1	4.72	4.64	4.74	6.1		
	2	4.65	4.62	4.72	1.5	306.7	121 - U@SQL
Heptachlor epoxide	1	5.57	5.51	5.65	6.1		
	2	5.49	5.44	5.58	1.9	221.1	105 - U@SQL
Endosulfan I	1	6.15	6.13	6.27	29		
	2	6.14	6.06	6.20	1.7	999.9	178 - U@SQL
Dieldrin	1	6.53	6.46	6.60	5.0		
	2	6.49	6.45	6.59	8.2	64.0	48.5 - J
Endosulfan II	1	7.08	7.01	7.15	150		
	2	7.14	7.06	7.20	100	50.0	40 - OK Do not use over range
4,4'-DDD	1	6.90	6.83	6.97	37		
	2	7.06	6.97	7.11	69	86.5	60.4 - J

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (16-18)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911584-001B Date(s) Analyzed: 10/28/09 10/28/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

~~Endosulfan sulfate~~	1	7.95	7.87	8.01	67 1.)		Do not use RPD
	2	7.73	7.68	7.82	67 1.)	0.0	
~~4,4'-DDT~~	1	~~7.21~~	~~7.14~~	~~7.28~~	~~67~~ 1.)		
	2	7.35	7.30	7.44	67 1.)	0.0	
Methoxychlor	1	7.69	7.63	7.77	88		116 - NJ Dont use. Diluted run is better.
	2	7.97	7.94	8.08	330	275.0	
Endrin aldehyde	1	7.53	7.45	7.59	77		175 - NJ
	2	7.49	7.41	7.55	5.1	999.9	
alpha-Chlordane	1	5.97	5.92	6.06	92		115 - NJ
	2	6.05	5.98	6.12	25	268.0	
gamma-Chlordane	1	5.80	5.70	5.84	58		114 - NJ
	2	5.83	5.74	5.88	16	262.5	

1.) Default value; saturated
LMS 11/23/09

AECOM058 PE184

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (16-18)DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911584-001BDL Date(s) Analyzed: 11/05/09 11/05/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.78	3.71	3.81	18		
	2	3.74	3.68	3.78	62	244.4	110 - Not using
gamma-BHC	1	3.65	3.63	3.73	14		
	2	3.66	3.60	3.70	19	35.7	30.3 - OK
4,4'-DDE	1	6.07	5.98	6.12	31		
	2	6.29	6.19	6.33	22	40.9	34 - OK
Endosulfan II	1	7.02	6.96	7.10	170		
	2	7.08	7.01	7.15	97	75.3	54.7 - J.
4,4'-DDD	1	6.83	6.78	6.92	51		
	2	7.00	6.92	7.06	96	88.2	61.2 - Not using
Endosulfan sulfate	1	7.90	7.83	7.97	350		
	2	7.72	7.64	7.78	360	2.9	2.8 - OK
4,4'-DDT	1	7.16	7.10	7.24	390		
	2	7.31	7.26	7.40	430	10.3	9.8 - OK
Methoxychlor	1	7.68	7.59	7.73	320		
	2	7.97	7.91	8.05	260	23.1	20.7 - OK
gamma-Chlordane	1	5.70	5.64	5.78	79		
	2	5.70	5.68	5.82	120	51.9	41.2 - J Not using

AECOM058 PE185

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB-17 (36-38)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911584-002B Date(s) Analyzed: 10/29/09 10/29/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
Dieldrin	1	6.52	6.46	6.60	5.3		
	2	6.47	6.45	6.59	4.7	12.8	12-OK
4,4'-DDE	1	6.13	6.04	6.18	6.2		
	2	6.34	6.25	6.39	4.5	37.8	31.8-OK
Endosulfan II	1	7.06	7.01	7.15	18		
	2	7.12	7.06	7.20	16	12.5	11.8-OK
4,4'-DDD	1	6.88	6.83	6.97	2.7		
	2	7.04	6.97	7.11	9.9	266.7	114-U@SQL
Endosulfan sulfate	1	7.94	7.87	8.01	160		
	2	7.75	7.68	7.82	5.4	999.9	187-NJ
4,4'-DDT	1	7.20	7.14	7.28	36		
	2	7.35	7.30	7.44	37	2.8	2.7-OK
Endrin ketone	1	8.19	8.12	8.26	7.2		
	2	8.19	8.14	8.28	4.3	67.4	50.4-J
alpha-Chlordane	1	5.95	5.92	6.06	16		
	2	6.02	5.98	6.12	5.1	213.7	103-NJ
gamma-Chlordane	1	5.77	5.70	5.84	12		
	2	5.79	5.74	5.88	4.4	172.7	93-NJ

AECOM058 PE186

2F

SOIL HERBICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	DCAA 1 %REC #	DCAA 2 %REC #	1 %REC #	%REC #	Other (1)	Other (2)	TOT OUT
01	mb-33428	84	86					0
02	lfb-33428	85	87					0
03	SB-3 (36-38)	205 *	0 * h					2
04	SB-3 (46-48)	80	86					0
05	SB-17 (16-18)	84	102					0
06	SB-17 (36-38)	74	93					0
07	SB-17 (40-42)	76	88					0
08	lsb-33428	30	31					0
09	lfb-33428(s)	34	34					0
10	SB-8 (24-26)	44	50					0
11	mb-33562	79	87					0
12	lfb-33562	84	90					0
13	SB-7 (38-40)	98	99					0
14	SB-7 (44-46)	102	104					0

US

QC Limits

DCAA = DCAA (29-136)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

1.) Masked by interference
11/24/09

AECOM058 H4

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB-17 (40-42)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM058

Lab Sample ID: 0911584-003B Date(s) Analyzed: 10/29/09 10/29/09

Instrument ID (1): HP6890-1 Instrument ID (2): HP6890-1

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
2,4-DB	1	5.68	5.66	5.72	10	630.0
	2	5.33	5.30	5.36	73	

RPD

152 R

AECOM058 H130

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

AA CRDL Standard Source: MV Labs/High Purity

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.22	109.0					
Mercury	0.2	0.23	113.5					
Mercury	0.2	0.21	106.0					
Mercury	0.2	0.20	99.5					
Mercury	0.2	0.15	75.5*					
Mercury	0.2	0.18	91.5					

11/24/09

AECOM058 M37

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
SB-3 (36-38)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM058

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.7 % Solids for Duplicate: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1882.3824		2498.2363		28.1	*	P
Antimony	6.6890	0.6597	B	0.6602	B	0.1		P
Arsenic		10.7433		10.5408		1.9		P
Barium	22.2965	11.1483	B	14.5663	B	26.6		P
Beryllium	0.5574	0.1940	B	0.1460	B	28.2		P
Cadmium	0.5574	0.0914	B	0.1271	B	32.7		P
Calcium	557.4136	2263.8027		3152.3668		32.8	*	P
Chromium		6.3523		7.5563		17.3		P
Cobalt	5.5741	3.9889	B	3.9777	B	0.3		P
Copper	2.7871	6.7860		6.9030		1.7		P
Iron		18562.8049		17945.0535		3.4		P
Lead		2.7023		3.1977		16.8		P
Magnesium	557.4136	2142.9643		2900.8495		30.1	*	P
Manganese		143.4894		159.6945		10.7		P
Mercury		0.0186	U	0.0186	U			CV
Nickel	4.4593	6.5385		7.4861		13.5		P
Potassium	557.4136	594.3411		854.8952		36.0		P
Selenium	0.5574	0.5879		0.2767	U	200.0		P
Silver		0.0924	U	0.0924	U			P
Sodium	557.4136	228.4883	B	295.6644	B	25.6		P
Thallium	1.1148	0.7259	B	0.4968	B	37.5		P
Vanadium	5.5741	11.3946		13.0123		13.3		P
Zinc		14.0892		16.2285		14.1		P

AECOM058 M52

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM062

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	ME	MSSEMI	MSVOA	WC
SB-1C (23-25)	0912584-001	X	X	X	X
SB-1C (80-81.5)	0912584-002	X	X	X	X
SB-1C DUP01 (112009)	0912584-003	X	X	X	X
SB-1C (98-100')	0912704-001	X	X	X	X

CLP, (Non-CLP) (Please indicate year of protocol)

ASP B 2000

mtm 12/17/09

AECOM062 S3

H2M LABS, INC.

23750

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM062

PROJECT NAME/NUMBER: EQUITY BROOKLYN, NY

SAMPLERS: (signature)/Client: Josh Millard / Ron Kantor

DELIVERABLES:

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: PETE COX

Phone Number:

PIS/Quote #

Sample Container Description → TCL VOC | TCL SVOC | TAL METALS | FREE CN | PESTICIDES (JSA 11/25/09) | NO PESTICIDES ASPLR JOSH MILLARD ON 11/25/09

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC: VOA	ORGANIC: BNA	ORGANIC: PEST/PCB	ORGANIC:	ORGANIC:	INORG.: Metal	INORG.: CN	LAB I.D. NO.	REMARKS:
11/20/09	1130	S	SB-1C (23-25)	6	X	X	X	X	X			0912584-001	MS/MSD DMC CC 11/23/09
11/20/09	1145	S	SB-1C (80-81.5)	2 ~~6~~	X	X	X	X	X			-002	
11/20/09		S	SB-1C DUP01 (112009)	2	↓	↓	↓	↓	↓			-003	

DMC CC 11/23/09

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/20/09	14:45	S. West	11/20/09	14:45
S. West	11/20/09	16:55	[signature]	11/20/09	16:55

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp 4.8°C
3. Received in good condition: Y or N
4. Properly preserved Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM062 S9

H2M LABS, INC.

AECOM062

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 11/20/2009 4:55:00 PM

Work Order Number 0912584

Received by dmc

Checklist completed by  11/23/09 (Signature / Date)

Reviewed by BA (Initials) 11/24/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ✓	No	Not Applicable
Custody seals intact on shippping container/cooler?	Yes	No	Not Applicable ✓
Custody seals intact on sample bottles?	Yes	No	Not Applicable ✓
Chain of custody present?	Yes ✓	No	
Chain of custody signed when relinquished and received?	Yes ✓	No	
Chain of custody agrees with sample labels?	Yes	No ✓	
Samples in proper container/bottle?	Yes ✓	No	
Sample containers intact?	Yes ✓	No	
Sufficient sample volume for indicated test?	Yes ✓	No	
All samples received within holding time?	Yes ✓	No	
Container/Temp Blank temperature in compliance?	Yes ✓	No	
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes	No
Water - pH acceptable upon receipt?	Yes ✓	No	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: FOR SAMPLE SB-1C (23-25); COLLECTION DATE ON COC (11/20/09) DID NOT AGREE WITH BOTTLE LABELS (11/18/09). FOR SB-1C (80-81.5); WRONG NUMBER OF BOTTLES ON COC. SAMPLE SB-1C DUP01(112009) AND MS/MSD NOT ON COC.

Corrective Action FOR SB-1C (23-25); USE COLLECTION DATE FROM BOTTLES. MADE CORRECTIONS TO COC PER CLIENT EMAIL.

AECOM062 S10

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23606

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM 062

PROJECT NAME/NUMBER: EQUITY - NATIONAL GRID

SAMPLERS: (signature)/Client: R. Kantor / AECOM

DELIVERABLES: B0-70

TURNAROUND TIME: STANDARD

NOTES:

Project Contact: PETE COX

Phone Number: 978-589-3012

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC TCL VOC	TCL SVOC	TAL METALS	FREE CN	PESTICIDES	NO PESTICIDES AS PER JOSH MILLARD ON 11/5/09 JSA	INORG. Metal	CN	LAB I.D. NO.	REMARKS:
11/23/09	1050	S	SB-1C (98-100')	6	✓	✓	✓	✓	✓				0912704-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/24/09	1410	S. Wad	11-24-09	14.10
S. Wad	11-24-09	16.05		11/24/09	1605

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp 3.0°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

H2M LABS, INC.

AECOM062

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 11/24/2009 4:05:00 PM

Work Order Number 0912704

Received by dmc

Checklist completed by _____ (Signature) 11/24/09 (Date)

Reviewed by RA (Initials) 11/30/09 (Date)

Matrix:

Carrier name: Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

AECOM062 S20

SYSTEM MONITORING SPIKE/DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix Spike - Sample No.: SB-1C (23-25) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	78	0	28	36*	59-172
Trichloroethene	78	0	23	30*	62-137
Benzene	78	0	30	38*	66-142
Toluene	78	0	27	35*	59-139
Chlorobenzene	78	0	22	28*	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	78	29	37*	3	22	59-172
Trichloroethene	78	25	32*	6	24	62-137
Benzene	78	31	40*	5	21	66-142
Toluene	78	30	38*	8	21	59-139
Chlorobenzene	78	23	30*	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 10 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM062

Sample ID LFB113009M Level: (low/med) MED

Column ID ZB-624 Column Diam .18

Inst. ID HP5971

Analysis Date: 11/30/09 18:59

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	SPIKE CONCENTRATION (µg/Kg)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	6300	0	3800	61	33-149
Dichlorodifluoromethane	6300	0	3800	62	50-150
Bromomethane	6300	0	1900	30*	58-144
Vinyl chloride	6300	0	4000	63	20-164
Chloroethane	6300	0	3900	63	33-153
Methylene chloride	6300	0	5700	91	46-157
Acetone	6300	0	6100	98	50-187
Trichlorofluoromethane	6300	0	4100	66	65-145
1,1-Dichloroethene	6300	0	4600	74	65-142
Carbon disulfide	6300	0	4500	71	52-143
1,1,2-Trichloro-1,2,2-trifluoroethane	6300	0	4100	66	32-186
1,1-Dichloroethane	6300	0	5300	85	67-141
Chloroform	6300	0	5500	88	68-140
1,2-Dichloroethane	6300	0	5800	93	65-147
Methyl Acetate	6300	0	6600	106	60-140
2-Butanone	6300	0	6400	102	30-226
1,1,1-Trichloroethane	6300	0	5000	79	78-127
trans-1,2-Dichloroethene	6300	0	5100	82	57-150
Carbon tetrachloride	6300	0	4700	74	70-136
Methyl tert-butyl ether	6300	0	6200	100	78-140
Bromodichloromethane	6300	0	5800	92	78-137
1,2-Dichloropropane	6300	0	5700	91	81-132
cis-1,2-Dichloroethene	6300	0	5400	87	57-150
cis-1,3-Dichloropropene	6300	0	5600	90	78-131
Trichloroethene	6300	0	5200	82	72-145
Dibromochloromethane	6300	0	5900	95	82-136
1,1,2-Trichloroethane	6300	0	6000	96	80-139
Benzene	6300	0	5400	87	71-142
Cyclohexane	6300	0	4200	68	60-140
trans-1,3-Dichloropropene	6300	0	5800	93	59-147

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

Form 6

ASPB5 8260B(VOA IN SOIL BY GC/MS) INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM062

Instrument ID: HP5972-2 Calibration Dates: 11/4/2009 11/4/2009

Heated Purge: (Y/N) Y Calibration Times: 18:26 21:04

GC Column: Rtx-624 ID: .18 (mm)

LAB FILE ID: VSTD005= G3798.D VSTD010= G3799.D VSTD020= G3800.D VSTD050= G3801.D VSTD100= G3802.D
VSTD200= G3803.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2
Bromochloromethane	1	1	1	1	1	1					1.000	0.0	
Chloromethane	3.6662266	3.05436	3.1887477	2.6970434	2.927075	2.7011931					3.039	12.0	
Dichlorodifluoromethane	2.3291531	2.0866070	2.2817283	1.9704101	2.0778671	1.893857					2.107	8.1	
Bromomethane *	1.3373274	1.5105554	1.5566949	1.3817835	1.5052495	1.4057720					1.450	6.0	*
Vinyl chloride *	2.2400487	2.4028148	2.453745	2.1362423	2.2864507	2.1027086					2.270	6.2	*
Chloroethane	1.4926889	1.5786477	1.6022688	1.3880544	1.5030149	1.3599453					1.487	6.6	
Methylene chloride	6.4112002	4.464485	3.9485188	2.6814974	2.5148144	2.1623002					3.697	43.3	
Acetone	1.345197	0.8361231	0.8303611	0.6039580	0.6861669	0.5942063					0.816	34.3	
Trichlorofluoromethane	2.7117181	2.8101159	2.9184005	2.6838102	2.9674155	2.7590702					2.808	4.0	
1,1-Dichloroethene *	2.2418258	2.1507139	2.2301481	1.9684311	2.1281154	1.9505062					2.112	6.0	*
Carbon disulfide	7.6688160	7.6033340	7.9105984	6.9796614	7.6273942	7.0011088					7.465	5.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7452782	1.9470064	2.1062441	1.8664044	2.1081934	1.9451139					1.953	7.2	
1,1-Dichloroethane *	4.2643176	4.2254788	4.3700773	3.8744158	4.2722984	3.9339398					4.157	4.9	*
1,2-Dichloroethene (total)	2.6095400	2.6055544	2.7090454	2.4062351	2.5797115	2.3823475					2.549	5.0	
Chloroform *	4.2155768	4.0905468	4.2072249	3.8357415	4.1554505	3.8110681					4.053	4.5	*
1,2-Dichloroethane *	2.8163079	2.814329	2.9485560	2.7234621	2.8925041	2.6588170					2.809	3.8	*
Methyl Acetate	2.6535845	2.3432625	2.463157	2.2692179	2.3989714	2.0598944					2.365	8.4	
2-Butanone	1.7384240	1.1224978	1.2418264	1.0951359	1.1673682	1.0118718					1.230	21.2	
1,1,1-Trichloroethane *	0.5997159	0.5412165	0.6272894	0.5738284	0.6227184	0.5707159					0.589	5.7	*
trans-1,2-Dichloroethene	2.3969334	2.4425543	2.5257592	2.2787077	2.4515961	2.2766209					2.395	4.2	
Carbon tetrachloride *	0.4921295	0.4665281	0.5545943	0.5168456	0.5539228	0.5150517					0.517	6.7	*
Methyl tert-butyl ether	5.5308184	5.7630207	5.9970526	5.5044111	5.9326791	5.4150693					5.691	4.3	
Bromodichloromethane *	0.6198753	0.5345827	0.6087507	0.5603188	0.5974769	0.5463936					0.578	6.1	*

CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Instrument ID: HP5972-2 Calibration Date: 11/30/2009 Time: 12:51

Lab File ID: 09\G4474.D Init. Calib. Date(s): 11/4/2009 11/4/2009

Heated Purge: (Y/N) Y Init. Calib. Times: 18:26 21:04

GC Column: Rtx-624 ID: .18 (mm)

COMPOUND	CURVE TYPE	RRF	RRF50	MIN RRF	%D	MAX %D	THEO CONC	RCVR CONC	%D²	MAX %D²	
Chloromethane	AVRG	3.039	2.1220		-30.2						
Dichlorodifluoromethane	AVRG	2.107	1.1630		-44.8						
Bromomethane	AVRG	1.450	1.2060	0.1	-16.8	25.0					*
Vinyl chloride	AVRG	2.270	1.5120	0.1	-33.4	25.0					*
Chloroethane	AVRG	1.487	1.1700		-21.3						
Methylene chloride	AVRG	3.697	2.5250		-31.7						
Acetone	AVRG	0.816	0.50300		-38.4						
Trichlorofluoromethane	AVRG	2.808	2.3450		-16.5						
1,1-Dichloroethene	AVRG	2.112	2.0090	0.1	-5.0	25.0					*
Carbon disulfide	AVRG	7.465	6.8940		-7.7						
1,1,2-Trichloro-1,2,2-triflu	AVRG	1.953	1.7690		-9.4						
1,1-Dichloroethane	AVRG	4.157	3.5400	0.2	-14.8	25.0					*
Chloroform	AVRG	4.053	3.6970	0.2	-8.8	25.0					*
1,2-Dichloroethane	AVRG	2.809	2.2270	0.1	-20.7	25.0					*
Methyl Acetate	AVRG	2.365	1.3170		-44.3						
2-Butanone	AVRG	1.230	0.81400		-33.8						
1,1,1-Trichloroethane	AVRG	0.589	0.53500	0.1	-9.2	25.0					*
trans-1,2-Dichloroethene	AVRG	2.395	2.3980		0.1						
Carbon tetrachloride	AVRG	0.517	0.50000	0.1	-3.2	25.0					*
Methyl tert-butyl ether	AVRG	5.691	4.9020		-13.9						
Bromodichloromethane	AVRG	0.578	0.59500	0.2	3.0	25.0					*
1,2-Dichloropropane	AVRG	0.424	0.40800		-3.8						
cis-1,2-Dichloroethene	AVRG	2.692	2.7730		3.0						
cis-1,3-Dichloropropene	AVRG	0.696	0.74100	0.2	6.5	25.0					*
Trichloroethene	AVRG	0.438	0.52500	0.3	20.0	25.0					*
Dibromochloromethane	AVRG	0.448	0.51600	0.1	15.2	25.0					*
1,1,2-Trichloroethane	AVRG	0.362	0.38900	0.1	7.5	25.0					*
Benzene	AVRG	1.617	1.7310	0.5	7.0	25.0					*
Cyclohexane	AVRG	0.713	0.62100		-12.9						
trans-1,3-Dichloropropene	AVRG	0.667	0.71000	0.1	6.4	25.0					*
Bromoform	AVRG	0.326	0.36000	0.1	10.3	25.0					*

AECOM062 V124

CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Instrument ID: HP5971 Calibration Date: 11/30/2009 Time: 13:37

Lab File ID: A\A67476.D Init. Calib. Date(s): 10/7/2009 10/7/2009

Heated Purge: (Y/N) N Init. Calib. Times: 14:53 17:33

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	CURVE TYPE	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	THEO CONC	RCVR CONC	%D²	MAX %D²	
Chloromethane	AVRG	2.973	1.5830		-46.8						
Dichlorodifluoromethane	AVRG	2.062	0.96200		-53.4						
Bromomethane	AVRG	1.121	1.0640	0.1	-5.0	25.0					*
Vinyl chloride	AVRG	2.606	2.2410	0.1	-14.0	25.0					*
Chloroethane	AVRG	1.329	1.3920		4.7						
Methylene chloride	AVRG	2.687	2.9830		11.0						
Acetone	AVRG	0.698	0.86100		23.4						
Trichlorofluoromethane	AVRG	2.198	2.7350		24.4						
1,1-Dichloroethene	AVRG	1.934	2.1560	0.1	11.5	25.0					*
Carbon disulfide	AVRG	8.200	8.7120		6.2						
1,1,2-Trichloro-1,2,2-triflu	AVRG	1.932	2.3900		23.7						
1,1-Dichloroethane	AVRG	4.669	5.6340	0.2	20.7	25.0					*
Chloroform	AVRG	4.180	5.1780	0.2	23.9	25.0					*
1,2-Dichloroethane	AVRG	3.142	3.7890	0.1	20.6	25.0					*
Methyl Acetate	AVRG	2.540	2.9060		14.4						
2-Butanone	AVRG	1.371	1.7010		24.1						
1,1,1-Trichloroethane	AVRG	0.561	0.57100	0.1	1.8	25.0					*
trans-1,2-Dichloroethene	AVRG	2.382	2.7400		15.0						
Carbon tetrachloride	AVRG	0.444	0.43900	0.1	-1.1	25.0					*
Methyl tert-butyl ether	AVRG	6.769	7.5460		11.5						
Bromodichloromethane	AVRG	0.611	0.64000	0.2	4.8	25.0					*
1,2-Dichloropropane	AVRG	0.516	0.53600		4.0						
cis-1,2-Dichloroethene	AVRG	2.757	3.3750		22.4						
cis-1,3-Dichloropropene	AVRG	0.811	0.82300	0.2	1.5	25.0					*
Trichloroethene	AVRG	0.480	0.49700	0.3	3.5	25.0					*
Dibromochloromethane	AVRG	0.504	0.54200	0.1	7.6	25.0					*
1,1,2-Trichloroethane	AVRG	0.439	0.46000	0.1	4.8	25.0					*
Benzene	AVRG	1.856	1.8820	0.5	1.4	25.0					*
Cyclohexane	AVRG	0.721	0.78100		8.4						
trans-1,3-Dichloropropene	AVRG	0.732	0.74000	0.1	1.1	25.0					*
Bromoform	AVRG	0.360	0.39500	0.1	9.8	25.0					*

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK113009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: VBLK113009

Sample wt/vol: 5 (g/mL) G Lab File ID: 09\G4475.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rtx-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	4	J
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM062 V141

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK113009M

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: VBLK113009M

Sample wt/vol: 4 (g/mL) G Lab File ID: A\A67484.D

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
74-87-3	Chloromethane	620	U
75-71-8	Dichlorodifluoromethane	620	U
74-83-9	Bromomethane	620	U
75-01-4	Vinyl chloride	620	U
75-00-3	Chloroethane	620	U
75-09-2	Methylene chloride	200	J
67-64-1	Acetone	3100	U
75-69-4	Trichlorofluoromethane	620	U
75-35-4	1,1-Dichloroethene	620	U
75-15-0	Carbon disulfide	620	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	620	U
75-34-3	1,1-Dichloroethane	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
79-20-9	Methyl Acetate	300	J
78-93-3	2-Butanone	3100	U
71-55-6	1,1,1-Trichloroethane	620	U
156-60-5	trans-1,2-Dichloroethene	620	U
56-23-5	Carbon tetrachloride	620	U
1634-04-4	Methyl tert-butyl ether	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
156-59-2	cis-1,2-Dichloroethene	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
110-82-7	Cyclohexane	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	3100	U
591-78-6	2-Hexanone	3100	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U

AECOM062 V146

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: AECOM SAS No.: ____ SDG No.: AECOM062

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-34009	64	75	80	81	79	79	69	73	0
02	LFB-34009	68	75	83	83	81	77	72	74	0
03	LCS-34009	65	73	80	79	77	74	69	72	0
04	(98-100')	80	87	96	95	97	82	78	84	0
05	(23-25)	80	86	97	98	95	83	80	84	0
06	(23-25)MS	79	80	92	98	92	78	75	81	0
07	(23-25)MSD	72	77	85	87	84	73	69	74	0
08	(80-81.5)	67	121 *	89	92	100	99	71	78	1
09	DUP01 (112009)	75	116	99	87	100	87	80	88	0
10	(80-81.5)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
11	DUP01 (112009)DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0

			QC LIMITS	
S1	2FP	= 2-Fluorophenol	(25-121)	
S2	NBZ	= Nitrobenzene-d5	(23-120)	
S3	PD5	= Phenol-d5	(24-113)	
S4	TBP	= 2,4,6-Tribromophenol	(19-122)	
S5	FBP	= 2-Fluorobiphenyl	(30-115)	
S6	TPH	= 4-Terphenyl-d14	(18-137)	
S7	2CP	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8	DCB	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM062 B3

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. **Contract:** _____

Lab Code: 10478 **Case No.:** AECOM **SAS No.:** _____ **SDG No.:** AECOM062

Matrix Spike - EPA Sample No.: SB-1C (23-25) **Level: (low/med)** LOW

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3900	0	2900	74	26-90
2-Chlorophenol	3900	0	3000	79	25-102
N-Nitroso-di-n-propylamine	2600	0	2700	106	41-126
4-Chloro-3-methylphenol	3900	0	3700	95	26-103
Acenaphthene	2600	0	2400	94	31-137
4-Nitrophenol	3900	0	3200	83	11-114
2,4-Dinitrotoluene	2600	0	2500	96	28-116
Pentachlorophenol	3900	0	4300	110*	17-109
Pyrene	2600	0	2500	96	35-142

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3900	2600	67	10	35	26-90
2-Chlorophenol	3900	2700	70	12	50	25-102
N-Nitroso-di-n-propylamine	2600	2500	95	11	38	41-126
4-Chloro-3-methylphenol	3900	3300	85	11	33	26-103
Acenaphthene	2600	2100	83	12	19	31-137
4-Nitrophenol	3900	2700	70	17	50	11-114
2,4-Dinitrotoluene	2600	2200	85	12	47	28-116
Pentachlorophenol	3900	3800	99	11	47	17-109
Pyrene	2600	2300	88	9	36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 1 out of 18 outside limits

COMMENTS: _____

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM062

Instrument ID: HP5972 Calibration Dates: 11/23/09 11/23/09

Heated Purge: (Y/N) N Calibration Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C50672.D SSTD010= C50671.D SSTD025= C50667.D SSTD040= C50670.D SSTD080= C50668.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R^2
3-Methylphenol/4-Methylphenol	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4	
Aniline	2.3299992	2.192548	2.1896844	2.0846719	1.9617151						2.152	6.4	
Benzidine	0.3378259	0.4196295	0.5230085	0.4582029	0.4644512						0.441	15.5	
Benzoic acid	0	0.1044604	0.1475046	0.2250032	0.2002993						0.169	31.9	
Benzyl alcohol	1.0142167	0.9647712	0.976626	0.8842058	0.8803784						0.944	6.3	
Octachlorocyclopentene	0.1133567	0.1320144	0.1345018	0.1238927	0.1290382						0.127	6.6	
Pyridine	2.1754021	2.0439563	2.2721028	2.1678152	2.2781359						2.187	4.4	
Benzaldehyde	1.1553706	1.0258754	0.7930752	0.6422056	0.3573700						0.795	39.7	
N-Nitrosodimethylamine	1.0835667	1.0450546	1.2607889	1.2181572	1.3525146						1.192	10.7	
Phenol *	2.3342135	2.3221494	2.2970407	2.1718997	2.0352705						2.232	5.7	*
Bis(2-chloroethyt)ether *	1.9777013	1.8753351	1.9013794	1.7990328	1.8585185						1.882	3.5	*
2-Chlorophenol *	1.6999813	1.6604901	1.7302338	1.608709	1.582146						1.656	3.7	*
2-Methylphenol *	1.4448801	1.3607795	1.4292368	1.3889543	1.4963673						1.424	3.7	*
2,2'-oxybis(1-chloropropane)	3.0061615	2.7089224	2.6713647	2.542361	2.5540631						2.697	7.0	
Acetophenone	1.905524	1.9221494	1.9351539	1.8901884	1.8659748						1.904	1.4	
4-Methylphenol *	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4	*
N-Nitroso-di-n-propylamine *	1.2926836	1.1923472	0.9885321	0.7692322	0.7084146						0.990	25.8	*
Hexachloroethane *	0.7147849	0.6879480	0.7071837	0.5448292	0.5098027						0.633	15.4	*
Nitrobenzene *	0.4225769	0.4218591	0.404346	0.3970329	0.3753863						0.404	4.8	*
Isophorone *	0.8842647	0.8763021	0.8576811	0.8354437	1.2591485						0.943	18.9	*
2-Nitrophenol *	0.2316633	0.2456960	0.2438852	0.2540493	0.2556100						0.246	3.9	*
2,4-Dimethylphenol *	0.3664307	0.363812	0.3537482	0.3387329	0.3385024						0.352	3.8	*
Bis(2-chloroethoxy)methane *	0.627744	0.6413451	0.612021	0.5761073	0.5469651						0.601	6.4	*

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Instrument ID: HP5972 Calibration Date: 12/3/09 Time: 11:01

Lab File ID: A\C50851.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.492		11.4	
Benzaldehyde	0.795	0.719		-9.5	
Phenol	2.232	2.565	0.800	14.9	25.0
Bis(2-chloroethyl)ether	1.882	2.157	0.700	14.6	25.0
2-Chlorophenol	1.656	1.734	0.800	4.7	25.0
2-Methylphenol	1.424	1.513	0.700	6.2	25.0
2,2'-oxybis(1-chloropropane)	2.697	3.329		23.5	
Acetophenone	1.904	2.014		5.8	
N-Nitroso-di-n-propylamine	0.990	1.102	0.500	11.3	25.0
Hexachloroethane	0.633	0.701	0.300	10.8	25.0
Nitrobenzene	0.404	0.480	0.200	18.7	25.0
Isophorone	0.943	1.000	0.400	6.1	25.0
2-Nitrophenol	0.246	0.264	0.100	3.2	25.0
2,4-Dimethylphenol	0.352	0.369	0.200	4.8	25.0
Bis(2-chloroethoxy)methane	0.601	0.697	0.300	16.0	25.0
2,4-Dichlorophenol	0.275	0.278	0.200	1.0	25.0
Naphthalene	1.036	1.071	0.700	3.4	25.0
4-Chloroaniline	0.456	0.474		3.9	
Hexachlorobutadiene	0.139	0.123		-11.7	
Caprolactam	0.123	0.123		0.2	
4-Chloro-3-methylphenol	0.288	0.293	0.200	1.7	25.0
2-Methylnaphthalene	0.643	0.653	0.400	1.5	25.0
Hexachlorocyclopentadiene	0.237	0.229		-3.6	
2,4,6-Trichlorophenol	0.394	0.362	0.200	-8.1	25.0
2,4,5-Trichlorophenol	0.390	0.378	0.200	-3.0	25.0
1,1'-Biphenyl	1.419	1.529		7.7	
2-Chloronaphthalene	1.263	1.301	0.800	3.0	25.0
2-Nitroaniline	0.443	0.517		16.8	
Dimethylphthalate	1.348	1.288		-4.4	
2,6-Dinitrotoluene	0.349	0.359	0.200	3.0	25.0
Acenaphthylene	1.900	1.917	1.300	0.9	25.0
3-Nitroaniline	0.438	0.447		2.0	
Acenaphthene	1.180	1.212	0.800	2.7	25.0
2,4-Dinitrophenol	0.171	0.115		-32.8	
4-Nitrophenol	0.199	0.194		-2.7	
Dibenzofuran	1.581	1.561	0.800	-1.3	25.0
2,4-Dinitrotoluene	0.425	0.438	0.200	3.1	25.0
Diethylphthalate	1.460	1.463		0.9	

All other compounds must meet a minimum RRF of 0.010.

AECOM062 B151

1D

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MB-34009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM062

Matrix: (soil/water) SOIL Lab Sample ID: MB-34009

Sample wt/vol: 15 (g/mL) G Lab File ID: A\C50847.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted: (Y/N) N Date Extracted: 11/30/09

Concentrated Extract Volume: 500 (µL) Date Analyzed: 12/03/09

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: Extraction: (Type) PFEX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butyl phthalate	100	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butyl benzyl phthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	Bis(2-ethylhexyl)phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) Cannot be separated from Diphenylamine

AECOM062 B167

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
SB-1C (23-25)S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 64.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	46.5658		0.7451	B	77.52	59.1	N	P
Arsenic	75-125	6.5240		1.1541	B	6.20	86.6		P
Barium	75-125	292.9752		10.0341	B	310.08	91.2		P
Beryllium	75-125	7.3240		0.2589	B	7.75	91.1		P
Cadmium	75-125	6.8775		0.0636	B	7.75	87.9		P
Chromium	75-125	39.1798		7.2977		31.01	102.8		P
Cobalt	75-125	72.4868		2.3101	B	77.52	90.5		P
Copper	75-125	43.9349		7.5612		38.76	93.8		P
Iron		7290.2109		4633.5070		155.04	1713.6		P
Lead	75-125	6.0689		2.5103		3.10	114.8		P
Manganese	75-125	188.9504		77.1736		77.52	144.2	N	P
Mercury	75-125	0.3204		0.0292	B	0.26	112.7		CV
Nickel	75-125	76.2853		5.4636	B	77.52	91.4		P
Selenium	75-125	1.4118		0.5107	B	1.55	58.1	N	P
Silver	75-125	6.6951		0.1285	U	7.75	86.4		P
Thallium	75-125	6.4913		0.4966	U	7.75	83.7		P
Vanadium	75-125	87.6744		11.3116		77.52	98.5		P
Zinc	75-125	90.4078		13.9209		77.52	98.7		P

Comments:

AECOM062 M31

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
SB-1C (23-25)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 64.5 % Solids for Duplicate: 57.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		2756.8899		3597.4512		26.5	*	P
Antimony	9.3023	0.7451	B	0.3516	B	71.8		P
Arsenic	1.5504	1.1541	B	0.7232	B	45.9		P
Barium	31.0078	10.0341	B	25.8016	B	88.0		P
Beryllium	0.7752	0.2589	B	0.2667	B	2.9		P
Cadmium	0.7752	0.0636	B	0.0524	U	200.0		P
Calcium	775.1938	2026.8186		2722.7643		29.3		P
Chromium	1.5504	7.2977		9.7070		28.3	*	P
Cobalt	7.7519	2.3101	B	2.7814	B	18.5		P
Copper	3.8760	7.5612		8.8000		15.1		P
Iron		4633.5070		5644.4946		19.7		P
Lead		2.5103		3.0427		19.2		P
Magnesium	775.1938	1678.6279		2102.6822		22.4		P
Manganese		77.1736		94.4140		20.1	*	P
Mercury	0.0517	0.0292	B	0.0346	B	17.0		CV
Nickel	6.2016	5.4636	B	6.6744		20.0		P
Potassium	775.1938	594.6357	B	720.7457	B	19.2		P
Selenium	0.7752	0.5107	B	0.3848	U	200.0		P
Silver		0.1285	U	0.1285	U			P
Sodium	775.1938	1349.3054		1929.2388		35.4		P
Thallium		0.4966	U	0.4966	U			P
Vanadium	7.7519	11.3116		16.2512		35.8		P
Zinc	3.1008	13.9209		15.5721		11.2		P

AECOM062 M33

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

SB-1C (23-25)

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM062

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	17781.94		26645.00		49.8	E	P
Antimony	4.81	B	10.69	U	100.0		P
Arsenic	7.44	B	11.46	U	100.0		P
Barium	64.72	B	98.70	B	52.5		P
Beryllium	1.67	B	1.80	B	7.8		P
Cadmium	0.41	B	1.69	U	100.0		P
Calcium	13072.98		19334.40	B	47.9	E	P
Chromium	47.07		68.90		46.4	E	P
Cobalt	14.90	B	21.10	B	41.6		P
Copper	48.77		68.30	B	40.0	E	P
Iron	29886.12		42851.30		43.4	E	P
Lead	16.19		19.14		18.2		P
Magnesium	10827.15		16004.45	B	47.8	E	P
Manganese	497.77		734.30		47.5	E	P
Nickel	35.24	B	51.85	B	47.1		P
Potassium	3835.40	B	5382.70	B	40.3	E	P
Selenium	3.29	B	12.41	U	100.0		P
Silver	0.83	U	4.14	U			P
Sodium	8703.02		11905.00	B	36.8	E	P
Thallium	3.20	U	16.02	U			P
Vanadium	72.96		108.20	B	48.3	E	P
Zinc	89.79		126.95		41.4	E	P

AECOM062 M37

SB-1C (80-81.5) and SB-1C DUP01 (112009)

Analyte	CRDL (mg/Kg)	5xCRDL (mg/Kg)	Original Result (mg/Kg)	Duplicate Result (mg/Kg)	RPD	Actions
Aluminum	20	100	2660	2910	9	OK; <35
Antimony	6	30	0.25 U	0.27	Not calculable	OK; 1 ND and 1 <CRDL
Arsenic	1	5	0.26 U	0.27 U	Not calculable	OK; both ND
Barium	20	100	10.8	17.8	49	OK; difference ± 2xCRDL
Beryllium	0.5	2.5	0.14	0.16	13	OK; <35
Cadmium	0.5	2.5	0.039 U	0.040 U	Not calculable	OK; both ND
Calcium	500	2500	592	773	27	OK; <35
Chromium	1	5	4.7	5.4	14	OK; <35
Cobalt	5	25	2.9	3	3	OK; <35
Copper	2.5	12.5	7.1	7.7	8	OK; <35
Iron	10	50	6810	5960	13	OK; <35
Lead	0.3	1.5	2	2.1	5	OK; <35
Magnesium	500	2500	1320	1420	7	OK; <35
Manganese	1.5	7.5	143	146	2	OK; <35
Mercury	0.2	1	0.019 U	0.019 U	Not calculable	OK; both ND
Nickel	4	20	5	5.7	13	OK; <35
Potassium	500	2500	405	490	19	OK; <35
Selenium	0.5	2.5	0.29 U	0.29 U	Not calculable	OK; both ND
Silver	1	5	0.095 U	0.097 U	Not calculable	OK; both ND
Sodium	500	2500	105	138	27	OK; <35
Thallium	1	5	0.37 U	0.37 U	Not calculable	OK; both ND
Vanadium	5	25	6.2	6.1	2	OK; <35
Zinc	2	10	14	15.6	11	OK; <35

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM063

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
MW1A121409	0913341-001	X	X	X	X	X
MW1B121409	0913341-002	X	X	X	X	X
MW1C121409	0913341-003	X	X	X	X	X
TB121409	0913341-004				X	
SB121409	0913341-005				X	
MW3A121509	0913450-001	X	X	X		X
MW3C121509	0913450-002	X	X	X	X	X
MW3A121609	0913485-001				X	
MW4A121609	0913485-002	X	X	X	X	X
MW4A121609D	0913485-003	X			X	
TB121609	0913485-004				X	

CLP, Non-CLP (Please indicate year of protocol)

ASP B 2000
CG 1/8/10

AECOM063 S3

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23743

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: [signature] /AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest+Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED: ORGANIC							INORG.			
					VOA	BN	Pest Pest					Metal	TCN		
12/14/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/14/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/14/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/14/09	1438	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/14/09	1516	S. Wood	12.14.09	15.16
S. Wood	12-14-09	16.52	[signature]	12/14/09	16:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or (chilled) Temp 10°-11°C on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM063 SFF

H2M LABS, INC.

AECOM063

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/14/2009 4:52:00 PM

Work Order Number 0913341

Received by dmc

Checklist completed by _____ 12/14/09
Signature Date

Reviewed by SA 12/15/09
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

AECOM063 S12

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23744

EXTERNAL CHAIN OF CUSTODY

CLIENT: | **H2M SDG NO:** AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: [signature] / AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest Herb	VOCs	SVOCs	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
12/15/08	0900	GW	MW6A121509	7			X	X					X	X			0913464-004	
12/15/08	1008	GW	MW3C121509	9	X	X	X	X	X								0913450-002	MW3C121509
12/15/08	1105	GW	MW7B121509	7			X	X					X	X			0913464-006	
12/15/08	1135	GW	MW3A121509	27	X	X	X	X	X								0913450-001	MS/MSD
12/15/08	1320	GW	MW7A121509	7			X	X					X	X			0913464-005	
12/15/08	1450	GW	MW4C121509	7			X	X					X	X			-002	
12/15/08	1455	GW	MW4C121509D	7			X	X					X	X			-003	
12/15/08	1505	GW	MW4B121509	7			X	X					X	X			-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/15/08	317	[signature]	12/15/08	317
[signature]	12/15/08	5:30	[signature]	12/16/08	17:30

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled Temp 2.6 - 4.9°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

AECOM063 S21

H2M LABS, INC.

AECOM063

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/15/2009 5:30:00 PM

Work Order Number 0913450

Received by dmc

Checklist completed by _____ 12/15/09
Signature Date

Reviewed by JSA 12/21/09
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☐	No ☑	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted ND Date contacted: _____ Person contacted /

Contacted by: _____ Regarding _____

Comments: FOR SAMPLE MW3A121509; VOA ANALYSIS REQUESTED ON COC, BUT NO VOA (Dup of MW3A) VIALS SUBMITTED FOR THIS SAMPLE. FOR MW3C121509, SAMPLE HAD 12 BOTTLES. ONLY 9 LISTED ON COC.

Corrective Action CLIENT SAMPLED VOA VIALS FOR SAMPLE MW3A121509 ON 12/16/09.

AECOM063 S22

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

30163

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / Nat Grid 601373762

SAMPLERS: (signature)/Client: [signature] / AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	SVOCs	VOCs	Tot CN	TAL Metals	TCL Pest/Herb/PCB			LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED									
					ORGANIC							INORG		
12/14/09	0820	GW	MW3A121609	9	X								0913485-001	MS/MSD
12/16/09	1115	GW	MW4A121609	10	X	X		X	X	X			-002	
12/16/09	1120	GW	MW4A121609D	7	X					X			-003	
12/14/09	1350	GW	MW2A121609	7		X	X	X	X				0913486-001	
	1345	GW	MW2B121609	7		X	X	X	X				-002	
	1025	GW	MW5A121609	7		X	X	X	X				-004	
	0920	GW	MW3B121609	7		X	X	X	X				-004	
	1140	GW	FW121609	7		X	X	X	X				-005	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/16/09	1426	[signature]	12/16/09	1426
[signature]	12/16/09	1630	[signature]	12/16/09	16:30

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# _____
2. Ambient or Chilled, Temp. 3.8 - 5.7°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM063 S31

H2M LABS, INC.

AECOM063

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/16/2009 4:30:00 PM

Work Order Number 0913485

Received by dmc

Checklist completed by _____ 12/16/09 (Signature / Date)

Reviewed by JSA 12/21/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

AECOM063 S32

H2M LABS, INC.

23743

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: [signature] /AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #:

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest+Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
			Sample Container Description →		ANALYSIS REQUESTED										
					Organic								Inorg.		
					VOA	BNA							Metal		
12/4/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/4/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/4/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/4/09	1438	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/4/09	1516	S. Ward	12.14.09	15.16
S. Ward	12-14-09	16.52	[signature]	12/14/09	16:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled. Temp. 10°-11°C on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

SYSTEM MONITORING SPIKE/DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix Spike - Sample No.: MW3A121609 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	60	120	61-145
Trichloroethene	50	0	48	96	71-120
Benzene	50	120	140	41*	76-127
Toluene	50	3	50	93	76-125
Chlorobenzene	50	0	46	91	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	60	120	0	14	61-145
Trichloroethene	50	48	95	1	14	71-120
Benzene	50	140	41*	0	11	76-127
Toluene	50	51	94	1	13	76-125
Chlorobenzene	50	46	93	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

AECOM063 V4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB122109 Level: (low/med) LOW

Column ID ZB-624 Column Diam .18

Inst. ID HP5971

Analysis Date: 12/21/09 12:27

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	41	82	70-114
Dichlorodifluoromethane	50	0	42	84	50-150
Bromomethane	50	0	51	102	50-136
Vinyl chloride	50	0	42	84	66-117
Chloroethane	50	0	44	88	71-116
Methylene chloride	50	0	48	95	80-112
Acetone	50	0	63	126*	71-125
Trichlorofluoromethane	50	0	41	83	10-144
1,1-Dichloroethene	50	0	41	82	67-120
Carbon disulfide	50	0	42	83	61-126
1,1,2-Trichloro-1,2,2-trifluoroethane	50	0	40	80	53-122
1,1-Dichloroethane	50	0	45	90	77-114
Chloroform	50	0	46	92	75-119
1,2-Dichloroethane	50	0	51	102	76-120
Methyl Acetate	50	0	59	118	45-175
2-Butanone	50	0	58	116	74-121
1,1,1-Trichloroethane	50	0	44	88	66-126
trans-1,2-Dichloroethene	50	0	43	87	74-115
Carbon tetrachloride	50	0	43	85	64-126
Methyl tert-butyl ether	50	0	52	104	61-138
Bromodichloromethane	50	0	49	97	78-118
1,2-Dichloropropane	50	0	47	94	81-116
cis-1,2-Dichloroethene	50	0	46	92	78-116
cis-1,3-Dichloropropene	50	0	47	94	79-116
Trichloroethene	50	0	43	87	72-121
Dibromochloromethane	50	0	50	99	75-125
1,1,2-Trichloroethane	50	0	52	104	82-116
Benzene	50	0	46	91	77-116
Cyclohexane	50	0	41	82	33-152
trans-1,3-Dichloropropene	50	0	50	100	77-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5971 Calibration Date: 12/21/09 Time: 11:28

Lab File ID: A\A67813.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	3.270		10.0	
Dichlorodifluoromethane	2.062	2.295		11.3	
Bromomethane	1.121	1.115	0.100	-0.5	25.0
Vinyl chloride	2.606	2.651	0.100	1.7	25.0
Chloroethane	1.329	1.452		9.2	
Methylene chloride	2.687	2.793		3.9	
Acetone	0.698	0.702		0.6	
Trichlorofluoromethane	2.198	3.248		47.8	
1,1-Dichloroethene	1.934	1.973	0.100	2.0	25.0
Carbon disulfide	8.200	7.998		-2.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	2.174		12.6	
1,1-Dichloroethane	4.669	5.018	0.200	7.5	25.0
Chloroform	4.180	4.894	0.200	17.1	25.0
1,2-Dichloroethane	3.142	3.922	0.100	24.8	25.0
Methyl Acetate	2.540	2.173		-14.5	
2-Butanone	1.371	1.348		-1.7	
1,1,1-Trichloroethane	0.561	0.578	0.100	3.0	25.0
trans-1,2-Dichloroethene	2.382	2.403		0.9	
Carbon tetrachloride	0.444	0.488	0.100	10.0	25.0
Methyl tert-butyl ether	6.769	7.442		9.9	
Bromodichloromethane	0.611	0.613	0.200	0.3	25.0
1,2-Dichloropropane	0.516	0.443		-14.1	
cis-1,2-Dichloroethene	2.757	2.928		6.2	
cis-1,3-Dichloropropene	0.811	0.734	0.200	-9.5	25.0
Trichloroethene	0.480	0.412	0.300	-14.2	25.0
Dibromochloromethane	0.504	0.496	0.100	-1.5	25.0
1,1,2-Trichloroethane	0.439	0.375	0.100	-14.6	25.0
Benzene	1.856	1.574	0.500	-15.2	25.0
Cyclohexane	0.721	0.616		-14.5	
trans-1,3-Dichloropropene	0.732	0.656	0.100	-10.3	25.0
Bromoform	0.360	0.348	0.100	-3.2	25.0
4-Methyl-2-pentanone	0.650	0.531		-18.3	
2-Hexanone	0.401	0.349		-13.0	
Tetrachloroethene	0.384	0.338	0.200	-12.0	25.0
1,1,2,2-Tetrachloroethane	0.607	0.506	0.500	-16.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM063 V255

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5971 Calibration Date: 12/23/09 Time: 11:07

Lab File ID: A\A67861.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	2.707		-9.0	
Dichlorodifluoromethane	2.062	1.972		-4.4	
Bromomethane	1.121	0.845	0.100	-24.6	25.0
Vinyl chloride	2.606	2.259	0.100	-13.3	25.0
Chloroethane	1.329	1.304		-1.9	
Methylene chloride	2.687	2.853		6.2	
Acetone	0.698	0.852		22.1	
Trichlorofluoromethane	2.198	2.898		31.8	
1,1-Dichloroethene	1.934	1.904	0.100	-1.6	25.0
Carbon disulfide	8.200	7.925		-3.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	1.727		-10.6	
1,1-Dichloroethane	4.669	5.116	0.200	9.6	25.0
Chloroform	4.180	4.973	0.200	19.0	25.0
1,2-Dichloroethane	3.142	4.009	0.100	27.6	25.0
Methyl Acetate	2.540	2.573		1.3	
2-Butanone	1.371	1.587		15.8	
1,1,1-Trichloroethane	0.561	0.564	0.100	0.5	25.0
trans-1,2-Dichloroethene	2.382	2.421		1.6	
Carbon tetrachloride	0.444	0.469	0.100	5.7	25.0
Methyl tert-butyl ether	6.769	7.808		15.3	
Bromodichloromethane	0.611	0.642	0.200	5.1	25.0
1,2-Dichloropropane	0.516	0.465		-9.8	
cis-1,2-Dichloroethene	2.757	3.052		10.7	
cis-1,3-Dichloropropene	0.811	0.776	0.200	-4.3	25.0
Trichloroethene	0.480	0.434	0.300	-9.6	25.0
Dibromochloromethane	0.504	0.540	0.100	7.2	25.0
1,1,2-Trichloroethane	0.439	0.414	0.100	-5.7	25.0
Benzene	1.856	1.674	0.500	-9.8	25.0
Cyclohexane	0.721	0.506		-29.8	
trans-1,3-Dichloropropene	0.732	0.707	0.100	-3.4	25.0
Bromoform	0.360	0.395	0.100	9.8	25.0
4-Methyl-2-pentanone	0.650	0.616		-5.2	
2-Hexanone	0.401	0.402		0.2	
Tetrachloroethene	0.384	0.340	0.200	-11.5	25.0
1,1,2,2-Tetrachloroethane	0.607	0.553	0.500	-8.8	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM063 V269

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5971 Calibration Date: 12/23/09 Time: 11:07

Lab File ID: A\A67861.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.527	0.374		-29.0	
Toluene	1.913	1.760	0.400	-8.0	25.0
Chlorobenzene	1.297	1.215	0.500	-6.3	25.0
Ethylbenzene	0.627	0.575	0.100	-8.3	25.0
Styrene	1.331	1.265	0.300	-5.0	25.0
m,p-Xylene	0.763	0.700	0.300	-8.3	25.0
o-Xylene	0.787	0.722	0.300	-8.3	25.0
1,2-Dibromoethane	0.522	0.490		-6.1	
Isopropylbenzene	1.760	1.647		-6.4	
1,3-Dichlorobenzene	0.945	0.901		-4.7	
1,4-Dichlorobenzene	0.986	0.912		-7.5	
1,2-Dichlorobenzene	0.916	0.869		-5.1	
1,2-Dibromo-3-chloropropane	0.087	0.088		1.3	
1,2,4-Trichlorobenzene	0.543	0.576		6.1	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 V270

1F

EPA SAMPLE NO.

VBLK122209

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: VBLK122209

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67838.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/22/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	007446-09-5	Sulfur dioxide	3.39	8	JN

AECOM063 V290

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK122309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: VBLK122309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67862.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM063 V296

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK122309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: VBLK122309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67862.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	1	J

AECOM063 V297

1F

EPA SAMPLE NO.

VBLK122309

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: VBLK122309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67862.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 007446-09-5	Sulfur dioxide	3.37	14	JN

AECOM063 V298

H2M LABS, INC.

23743

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER
Equity / National Grid
60137362

SAMPLERS: (signature)/Client
[signature] /AECOM

DELIVERABLES:
AS per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest+Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
				ANALYSIS REQUESTED											
12/11/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/14/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/14/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/14/09	1430	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/14/09	1516	S. Weed	12-14-09	15.16
S. Weed	12-14-09	16.52	[signature]	12/14/09	16:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled. Temp 10°-11°C on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5#	S4 TBP#	S5 FBP#	S6 TPH#	S7 2CP#	S8 DCB#	TOT OUT
01	MB-34277	43	66	31	91	65	85	65	53	0
02	LFB-34277	49	80	35	98	82	93	74	69	0
03	MW1A121409	52	84	39	101	83	83	78	73	0
04	MW1B121409	45	73	34	95	72	84	68	62	0
05	MW1C121409	45	87	33	99	77	81	67	65	0
06	MW1C121409DL	46	79	32	96	88	100	77	79	0
07	MB-34334	52	79	36	93	77	85	79	64	0
08	LFB-34334	44	70	30	88	74	90	67	63	0
09	LCS-34334	53	79	35	88	78	82	79	70	0
10	MW3A121509	50	79	34	90	76	80	76	72	0
11	MW3A121509MS	49	76	31	94	74	77	71	69	0
12	MW3A121509MSD	45	75	30	97	78	78	72	68	0
13	MW3C121509	45	159 *	31	92	76	75	66	57	1
14	MW3C121509DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
15	MB-34371	41	73	29	89	61	79	68	49	0
16	LFB-34371	49	77	33	93	75	88	73	67	0
17	MW4A121609	108	98	45	94	88	91	117 *	137 *	2
18	MW4A121609DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0

				QC LIMITS	
S 1	2FP	=	2-Fluorophenol	(21-110)	
S 2	NBZ	=	Nitrobenzene-d5	(35-114)	
S 3	PD5	=	Phenol-d5	(10-110)	
S 4	TBP	=	2,4,6-Tribromophenol	(10-123)	
S 5	FBP	=	2-Fluorobiphenyl	(43-116)	
S 6	TPH	=	4-Terphenyl-d14	(33-141)	
S 7	2CP	=	2-Chlorophenol-d4	(33-110)	(advisory)
S 6	DCB	=	1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM063 B3

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix Spike - EPA Sample No.: MW3A121509

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	2	29	36	12-110
2-Chlorophenol	75	0	52	69	27-123
N-Nitroso-di-n-propylamine	50	0	47	94	41-116
4-Chloro-3-methylphenol	75	0	62	82	23-97
Acenaphthene	50	28	55	53	46-118
4-Nitrophenol	75	0	44	59	10-80
2,4-Dinitrotoluene	50	0	48	95	24-96
Pentachlorophenol	75	0	90	120*	9-103
Pyrene	50	7	47	78	26-127

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	24	30	18	42	12-110
2-Chlorophenol	75	52	70	1	40	27-123
N-Nitroso-di-n-propylamine	50	49	98	4	38	41-116
4-Chloro-3-methylphenol	75	62	82	0	42	23-97
Acenaphthene	50	66	75	34*	31	46-118
4-Nitrophenol	75	42	57	3	50	10-80
2,4-Dinitrotoluene	50	48	96	1	38	24-96
Pentachlorophenol	75	90	120*	0	50	9-103
Pyrene	50	48	82	5	31	26-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 9 outside limits

Spike Recovery: 2 out of 18 outside limits

COMMENTS: _____

AECOM063 B4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB-34277 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/17/09 11:49 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	32	63	60-140
Benzaldehyde	50	0	120	249*	40-140
Phenol	50	0	19	38	25-131
Bis(2-chloroethyl)ether	50	0	39	78	39-111
2-Chlorophenol	50	0	37	74	48-116
2-Methylphenol	50	0	35	70	41-131
2,2'-oxybis(1-chloropropane)	50	0	37	75	28-146
Acetophenone	50	0	40	80	60-140
N-Nitroso-di-n-propylamine	50	0	48	97	40-124
Hexachloroethane	50	0	26	51	41-119
Nitrobenzene	50	0	42	84	48-126
Isophorone	50	0	43	87	33-131
2-Nitrophenol	50	0	42	84	41-121
2,4-Dimethylphenol	50	0	39	78	39-135
Bis(2-chloroethoxy)methane	50	0	35	70	20-148
2,4-Dichlorophenol	50	0	44	87	46-130
Naphthalene	50	0	36	72	47-117
4-Chloroaniline	50	0	42	85	25-133
Hexachlorobutadiene	50	0	27	54	11-136
Caprolactam	50	0	13	27*	40-140
4-Chloro-3-methylphenol	50	0	44	88	45-135
2-Methylnaphthalene	50	0	36	72	60-140
Hexachlorocyclopentadiene	50	0	30	61	13-119
2,4,6-Trichlorophenol	50	0	44	88	53-131
2,4,5-Trichlorophenol	50	0	46	92	48-132
1,1'-Biphenyl	50	0	36	73	40-140
2-Chloronaphthalene	50	0	32	63	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	46	92	10-162
2,6-Dinitrotoluene	50	0	46	96	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

AECOM063 B7

3A
SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB-34334 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/21/09 22:30 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	28	56*	60-140
Benzaldehyde	50	0	180	364*	40-140
Phenol	50	0	17	35	25-131
Bis(2-chloroethyl)ether	50	0	34	67	39-111
2-Chlorophenol	50	0	33	65	48-116
2-Methylphenol	50	0	31	63	41-131
2,2'-oxybis(1-chloropropane)	50	0	33	66	28-146
Acetophenone	50	0	36	71	60-140
N-Nitroso-di-n-propylamine	50	0	41	82	40-124
Hexachloroethane	50	0	24	48	41-119
Nitrobenzene	50	0	35	70	48-126
Isophorone	50	0	39	77	33-131
2-Nitrophenol	50	0	38	76	41-121
2,4-Dimethylphenol	50	0	35	70	39-135
Bis(2-chloroethoxy)methane	50	0	30	59	20-148
2,4-Dichlorophenol	50	0	37	74	46-130
Naphthalene	50	0	32	63	47-117
4-Chloroaniline	50	0	36	72	25-133
Hexachlorobutadiene	50	0	22	45	11-135
Caprolactam	50	0	16	31*	40-140
4-Chloro-3-methylphenol	50	0	40	79	45-135
2-Methylnaphthalene	50	0	33	67	60-140
Hexachlorocyclopentadiene	50	0	40	80	13-119
2,4,6-Trichlorophenol	50	0	42	84	53-131
2,4,5-Trichlorophenol	50	0	41	83	48-132
1,1'-Biphenyl	50	0	34	69	40-140
2-Chloronaphthalene	50	0	37	74	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	47	94	10-162
2,6-Dinitrotoluene	50	0	47	95	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS:

AECOM063 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB-34334 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/21/09 22:30 11/23/09 16:57

Acenaphthylene	50	0	38	75	61-135
3-Nitroaniline	50	0	47	95	11-167
Acenaphthene	50	0	38	76	36-132
2,4-Dinitrophenol	50	0	56	113*	11-101
4-Nitrophenol	50	0	16	33	22-156
Dibenzofuran	50	0	39	77	24-156
2,4-Dinitrotoluene	50	0	49	98	48-134
Diethylphthalate	50	0	44	88	24-166
Fluorene	50	0	40	79	55-129
4-Chlorophenyl-phenylether	50	0	36	73	50-130
4-Nitroaniline	50	0	47	93	14-136
4,6-Dinitro-2-methylphenol	50	0	51	102	47-107
N-Nitrosodiphenylamine	50	0	37	73	27-135
4-Bromophenyl-phenylether	50	0	42	84	50-142
Hexachlorobenzene	50	0	43	85	56-154
Atrazine	50	0	49	98	40-140
Pentachlorophenol	50	0	53	106	12-124
Phenanthrene	50	0	45	89	57-135
Anthracene	50	0	44	88	61-135
Carbazole	50	0	43	86	10-135
Di-n-butyl phthalate	50	0	46	92	44-144
Fluoranthene	50	0	45	90	61-135
Pyrene	50	0	48	96	58-136
Butyl benzyl phthalate	50	0	52	103	49-135
3,3'-Dichlorobenzidine	50	0	45	90	20-132
Benzo(a)anthracene	50	0	47	95	56-136
Chrysene	50	0	49	98	38-170
Bis(2-ethylhexyl)phthalate	50	0	49	99	33-193
Di-n-octyl phthalate	50	0	44	87	45-155
Benzo(b)fluoranthene	50	0	42	83	43-147
Benzo(k)fluoranthene	50	0	45	91	53-159
Benzo(a)pyrene	50	0	46	92	47-141
Indeno(1,2,3-cd)pyrene	50	0	46	91	26-166

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS:

AECOM063 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB-34371 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/22/09 14:30 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	28	56*	60-140
Benzaldehyde	50	0	230	458*	40-140
Phenol	50	0	18	37	25-131
Bis(2-chloroethyl)ether	50	0	35	69	39-111
2-Chlorophenol	50	0	36	72	48-116
2-Methylphenol	50	0	34	68	41-131
2,2'-oxybis(1-chloropropane)	50	0	34	67	28-146
Acetophenone	50	0	40	79	60-140
N-Nitroso-di-n-propylamine	50	0	42	85	40-124
Hexachloroethane	50	0	22	43	41-119
Nitrobenzene	50	0	40	79	48-126
Isophorone	50	0	42	83	33-131
2-Nitrophenol	50	0	39	79	41-121
2,4-Dimethylphenol	50	0	38	76	39-135
Bis(2-chloroethoxy)methane	50	0	32	64	20-148
2,4-Dichlorophenol	50	0	40	80	46-130
Naphthalene	50	0	32	64	47-117
4-Chloroaniline	50	0	40	79	25-133
Hexachlorobutadiene	50	0	23	47	11-135
Caprolactam	50	0	15	29*	40-140
4-Chloro-3-methylphenol	50	0	41	83	45-135
2-Methylnaphthalene	50	0	31	63	60-140
Hexachlorocyclopentadiene	50	0	34	69	13-119
2,4,6-Trichlorophenol	50	0	42	83	53-131
2,4,5-Trichlorophenol	50	0	43	85	48-132
1,1'-Biphenyl	50	0	34	68	40-140
2-Chloronaphthalene	50	0	28	56	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	46	92	10-162
2,6-Dinitrotoluene	50	0	45	89	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

AECOM063-B13

3A
SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LFB-34371 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/22/09 14:30 11/23/09 16:57

Acenaphthylene	50	0	34	69	61-135
3-Nitroaniline	50	0	48	96	11-167
Acenaphthene	50	0	35	70	36-132
2,4-Dinitrophenol	50	0	65	131*	11-101
4-Nitrophenol	50	0	23	45	22-156
Dibenzofuran	50	0	35	70	24-156
2,4-Dinitrotoluene	50	0	46	93	48-134
Diethylphthalate	50	0	44	89	24-156
Fluorene	50	0	37	74	55-129
4-Chlorophenyl-phenylether	50	0	33	65	50-130
4-Nitroaniline	50	0	50	99	14-136
4,6-Dinitro-2-methylphenol	50	0	54	108*	47-107
N-Nitrosodiphenylamine	50	0	35	71	27-135
4-Bromophenyl-phenylether	50	0	38	76	50-142
Hexachlorobenzene	50	0	41	82	56-154
Atrazine	50	0	51	102	40-140
Pentachlorophenol	50	0	54	108	12-124
Phenanthrene	50	0	41	83	57-135
Anthracene	50	0	43	85	61-135
Carbazole	50	0	45	90	10-135
Di-n-butyl phthalate	50	0	46	91	44-144
Fluoranthene	50	0	43	86	61-135
Pyrene	50	0	49	98	58-136
Butyl benzyl phthalate	50	0	49	98	49-135
3,3'-Dichlorobenzidine	50	0	50	99	20-132
Benzo(a)anthracene	50	0	46	92	56-136
Chrysene	50	0	49	97	38-170
Bis(2-ethylhexyl)phthalate	50	0	49	98	33-193
Di-n-octyl phthalate	50	0	45	90	45-155
Benzo(b)fluoranthene	50	0	46	92	43-147
Benzo(k)fluoranthene	50	0	47	95	53-159
Benzo(a)pyrene	50	0	47	95	47-141
Indeno(1,2,3-cd)pyrene	50	0	49	97	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

AECOM063 B14

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Instrument ID: HP5972 Calibration Dates: 11/23/2009 11/23/2009

Heated Purge: (Y/N) N Calibration Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C50672.D SSTD010= C50671.D SSTD025= C50667.D SSTD040= C50670.D SSTD080= C50668.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						RRF	% RSD	R ²
3-Methylphenol/4-Methylphenol	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4	
Aniline	2.3299992	2.192548	2.1896844	2.0846719	1.9617151						2.152	6.4	
Benzidine	0.3378259	0.4196295	0.5230085	0.4582029	0.4644512						0.441	15.5	
Benzoic acid	0	0.1044604	0.1475046	0.2250032	0.2002993						0.169	31.9	
Benzyl alcohol	1.0142167	0.9647712	0.976626	0.8842058	0.8803784						0.944	6.3	
Pyridine	2.1754021	2.0439563	2.2721028	2.1678152	2.2781359						2.187	4.4	
Benzaldehyde	1.1553706	1.0258754	0.7930752	0.6422056	0.3573700						0.795	39.7	
N-Nitrosodimethylamine	1.0835667	1.0450546	1.2607889	1.2181572	1.3525146						1.192	10.7	
Phenol *	2.3342135	2.3221494	2.2970407	2.1718997	2.0352705						2.232	5.7	*
Bis(2-chloroethyl)ether *	1.9777013	1.8753351	1.9013794	1.7990328	1.8585185						1.882	3.5	*
2-Chlorophenol *	1.6999813	1.6604901	1.7302338	1.608709	1.582146						1.656	3.7	*
2-Methylphenol *	1.4448801	1.3607795	1.4292368	1.3889543	1.4963673						1.424	3.7	*
2,2'-oxybis(1-chloropropane)	3.0061615	2.7089224	2.6713647	2.542361	2.5540631						2.697	7.0	
Acetophenone	1.905524	1.9221494	1.9351539	1.8901884	1.8659748						1.904	1.4	
4-Methylphenol *	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4	*
N-Nitroso-di-n-propylamine *	1.2926836	1.1923472	0.9885321	0.7692322	0.7084146						0.990	25.8	*
Hexachloroethane *	0.7147849	0.6879480	0.7071837	0.5448292	0.5098027						0.633	15.4	*
Nitrobenzene *	0.4225769	0.4218591	0.404346	0.3970329	0.3753863						0.404	4.8	*
Isophorone *	0.8842647	0.8763021	0.8576811	0.8354437	1.2591485						0.943	18.9	*
2-Nitrophenol *	0.2316633	0.2456960	0.2438852	0.2540493	0.2556100						0.246	3.9	*
2,4-Dimethylphenol *	0.3664307	0.363812	0.3537482	0.3387329	0.3385024						0.352	3.8	*
Bis(2-chloroethoxy)methane *	0.627744	0.6413451	0.612021	0.5761073	0.5469651						0.601	6.4	*

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/17/20 Time: 17:42

Lab File ID: A\C51408.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.395		4.2	
Benzaldehyde	0.795	0.201		-74.7	
Phenol	2.232	2.294	0.800	2.8	25.0
Bis(2-chloroethyl)ether	1.882	1.864	0.700	-1.0	25.0
2-Chlorophenol	1.656	1.468	0.800	-11.4	25.0
2-Methylphenol	1.424	1.388	0.700	-2.5	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.487		-7.8	
Acetophenone	1.904	1.754		-7.9	
N-Nitroso-di-n-propylamine	0.990	0.902	0.500	-8.9	25.0
Hexachloroethane	0.633	0.599	0.300	-5.4	25.0
Nitrobenzene	0.404	0.429	0.200	6.1	25.0
Isophorone	0.943	0.911	0.400	-3.3	25.0
2-Nitrophenol	0.246	0.251	0.100	2.0	25.0
2,4-Dimethylphenol	0.352	0.364	0.200	3.3	25.0
Bis(2-chloroethoxy)methane	0.601	0.682	0.300	13.5	25.0
2,4-Dichlorophenol	0.275	0.298	0.200	8.3	25.0
Naphthalene	1.036	1.008	0.700	-2.7	25.0
4-Chloroaniline	0.456	0.456		-0.1	
Hexachlorobutadiene	0.139	0.152		9.1	
Caprolactam	0.123	0.110		-10.4	
4-Chloro-3-methylphenol	0.288	0.295	0.200	2.4	25.0
2-Methylnaphthalene	0.643	0.653	0.400	1.5	25.0
Hexachlorocyclopentadiene	0.237	0.148		-37.7	
2,4,6-Trichlorophenol	0.394	0.358	0.200	-9.1	25.0
2,4,5-Trichlorophenol	0.390	0.378	0.200	-3.0	25.0
1,1'-Biphenyl	1.419	1.392		-1.9	
2-Chloronaphthalene	1.263	1.187	0.800	-6.0	25.0
2-Nitroaniline	0.443	0.410		-7.4	
Dimethylphthalate	1.348	1.332		-1.2	
2,6-Dinitrotoluene	0.349	0.349	0.200	0.1	25.0
Acenaphthylene	1.900	1.908	1.300	0.4	25.0
3-Nitroaniline	0.438	0.427		-2.6	
Acenaphthene	1.180	1.147	0.800	-2.8	25.0
2,4-Dinitrophenol	0.171	0.183		6.9	
4-Nitrophenol	0.199	0.178		-10.7	
Dibenzofuran	1.581	1.520	0.800	-3.9	25.0
2,4-Dinitrotoluene	0.426	0.428	0.200	0.8	25.0
Diethylphthalate	1.450	1.387		-4.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B333

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/18/20 Time: 10:08

Lab File ID: A\C51434.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.390		3.8	
Benzaldehyde	0.795	0.201		-74.7	
Phenol	2.232	2.333	0.800	4.5	25.0
Bis(2-chloroethyl)ether	1.882	1.917	0.700	1.8	25.0
2-Chlorophenol	1.656	1.501	0.800	-9.4	25.0
2-Methylphenol	1.424	1.405	0.700	-1.3	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.529		-6.2	
Acetophenone	1.904	1.690		-11.2	
N-Nitroso-di-n-propylamine	0.990	0.960	0.500	-3.1	25.0
Hexachloroethane	0.633	0.612	0.300	-3.3	25.0
Nitrobenzene	0.404	0.439	0.200	8.6	25.0
Isophorone	0.943	0.931	0.400	-1.2	25.0
2-Nitrophenol	0.246	0.247	0.100	0.3	25.0
2,4-Dimethylphenol	0.352	0.355	0.200	0.8	25.0
Bis(2-chloroethoxy)methane	0.601	0.663	0.300	10.3	25.0
2,4-Dichlorophenol	0.275	0.288	0.200	4.6	25.0
Naphthalene	1.036	1.018	0.700	-1.7	25.0
4-Chloroaniline	0.456	0.457		0.1	
Hexachlorobutadiene	0.139	0.149		7.0	
Caprolactam	0.123	0.115		-6.3	
4-Chloro-3-methylphenol	0.288	0.294	0.200	2.0	25.0
2-Methylnaphthalene	0.643	0.647	0.400	0.6	25.0
Hexachlorocyclopentadiene	0.237	0.143		-39.8	
2,4,6-Trichlorophenol	0.394	0.358	0.200	-9.1	25.0
2,4,5-Trichlorophenol	0.390	0.383	0.200	-1.7	25.0
1,1'-Biphenyl	1.419	1.389		-2.1	
2-Chloronaphthalene	1.263	1.265	0.800	0.2	25.0
2-Nitroaniline	0.443	0.403		-9.0	
Dimethylphthalate	1.348	1.298		-3.7	
2,6-Dinitrotoluene	0.349	0.342	0.200	-1.9	25.0
Acenaphthylene	1.900	1.878	1.300	-1.2	25.0
3-Nitroaniline	0.438	0.407		-7.1	
Acenaphthene	1.180	1.123	0.800	-4.8	25.0
2,4-Dinitrophenol	0.171	0.143		-16.5	
4-Nitrophenol	0.199	0.162		-18.7	
Dibenzofuran	1.581	1.494	0.800	-5.5	25.0
2,4-Dinitrotoluene	0.425	0.421	0.200	-0.9	25.0
Diethylphthalate	1.450	1.340		-7.6	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B344

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/18/20 Time: 10:08

Lab File ID: A\C51434.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.159	0.900	-5.0	25.0
4-Chlorophenyl-phenylether	0.544	0.507	0.400	-6.8	25.0
4-Nitroaniline	0.448	0.377		-15.8	
4,6-Dinitro-2-methylphenol	0.166	0.151		-9.1	
N-Nitrosodiphenylamine	0.728	0.770		5.8	
4-Bromophenyl-phenylether	0.210	0.240	0.100	14.4	25.0
Hexachlorobenzene	0.243	0.268	0.100	10.2	25.0
Atrazine	0.181	0.180		-0.8	
Pentachlorophenol	0.138	0.148	0.050	6.9	25.0
Phenanthrene	1.120	1.092	0.700	-2.5	25.0
Anthracene	1.162	1.152	0.700	-0.8	25.0
Carbazole	1.151	1.113		-3.3	
Di-n-butyl phthalate	1.789	1.810		1.2	
Fluoranthene	1.102	1.058	0.600	-4.0	25.0
Pyrene	1.495	1.308	0.600	-12.5	25.0
Butyl benzyl phthalate	0.990	0.905		-8.5	
3,3'-Dichlorobenzidine	0.318	0.387		21.7	
Benzo(a)anthracene	1.108	1.159	0.800	4.6	25.0
Chrysene	1.054	1.073	0.700	1.8	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.232		-4.5	
Di-n-octyl phthalate	2.401	2.340		-2.5	
Benzo(b)fluoranthene	1.193	1.227	0.700	2.9	25.0
Benzo(k)fluoranthene	0.937	1.180	0.700	25.9	25.0
Benzo(a)pyrene	1.086	1.216	0.700	11.9	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.337	0.500	13.6	25.0
Dibenzo(a,h)anthracene	0.947	1.041	0.400	9.9	25.0
Benzo(g,h,i)perylene	1.042	1.130	0.500	8.4	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B345

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/21/20 Time: 17:55

Lab File ID: A\C51460.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.381		3.1	
Benzaldehyde	0.795	0.133		-83.3	
Phenol	2.232	2.018	0.800	-9.6	25.0
Bis(2-chloroethyl)ether	1.882	1.615	0.700	-14.2	25.0
2-Chlorophenol	1.656	1.604	0.800	-3.2	25.0
2-Methylphenol	1.424	1.392	0.700	-2.3	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.651		-1.7	
Acetophenone	1.904	1.694		-11.0	
N-Nitroso-di-n-propylamine	0.990	0.666	0.500	-32.7	25.0
Hexachloroethane	0.633	0.615	0.300	-2.8	25.0
Nitrobenzene	0.404	0.327	0.200	-19.1	25.0
Isophorone	0.943	0.703	0.400	-25.4	25.0
2-Nitrophenol	0.246	0.246	0.100	-0.1	25.0
2,4-Dimethylphenol	0.352	0.379	0.200	7.6	25.0
Bis(2-chloroethoxy)methane	0.601	0.584	0.300	-2.8	25.0
2,4-Dichlorophenol	0.275	0.296	0.200	7.5	25.0
Naphthalene	1.036	1.115	0.700	7.7	25.0
4-Chloroaniline	0.456	0.517		13.3	
Hexachlorobutadiene	0.139	0.187		34.2	
Caprolactam	0.123	0.115		-6.3	
4-Chloro-3-methylphenol	0.288	0.315	0.200	9.3	25.0
2-Methylnaphthalene	0.643	0.649	0.400	0.9	25.0
Hexachlorocyclopentadiene	0.237	0.164		-30.9	
2,4,6-Trichlorophenol	0.394	0.413	0.200	4.9	25.0
2,4,5-Trichlorophenol	0.390	0.446	0.200	14.4	25.0
1,1'-Biphenyl	1.419	1.416		-0.2	
2-Chloronaphthalene	1.263	1.098	0.800	-13.1	25.0
2-Nitroaniline	0.443	0.325		-28.6	
Dimethylphthalate	1.348	1.336		-0.9	
2,6-Dinitrotoluene	0.349	0.362	0.200	3.8	25.0
Acenaphthylene	1.900	1.928	1.300	1.5	25.0
3-Nitroaniline	0.438	0.430		-1.9	
Acenaphthene	1.180	1.158	0.800	-1.9	25.0
2,4-Dinitrophenol	0.171	0.191		11.6	
4-Nitrophenol	0.199	0.173		-13.2	
Dibenzofuran	1.581	1.588	0.800	0.4	25.0
2,4-Dinitrotoluene	0.425	0.455	0.200	7.1	25.0
Diethylphthalate	1.460	1.403		-3.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B355

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/22/20 Time: 10:59

Lab File ID: A\C51482.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.414		5.6	
Benzaldehyde	0.795	0.131		-83.5	
Phenol	2.232	2.040	0.800	-8.6	25.0
Bis(2-chloroethyl)ether	1.882	1.624	0.700	-13.7	25.0
2-Chlorophenol	1.656	1.634	0.800	-1.3	25.0
2-Methylphenol	1.424	1.423	0.700	-0.1	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.754		2.1	
Acetophenone	1.904	1.714		-10.0	
N-Nitroso-di-n-propylamine	0.990	0.675	0.500	-31.8	25.0
Hexachloroethane	0.633	0.610	0.300	-3.6	25.0
Nitrobenzene	0.404	0.299	0.200	-26.0	25.0
Isophorone	0.943	0.673	0.400	-28.6	25.0
2-Nitrophenol	0.246	0.256	0.100	4.0	25.0
2,4-Dimethylphenol	0.352	0.359	0.200	1.9	25.0
Bis(2-chloroethoxy)methane	0.601	0.562	0.300	-6.5	25.0
2,4-Dichlorophenol	0.275	0.292	0.200	6.1	25.0
Naphthalene	1.036	1.077	0.700	4.0	25.0
4-Chloroaniline	0.456	0.497		8.9	
Hexachlorobutadiene	0.139	0.175		25.6	
Caprolactam	0.123	0.119		-3.1	
4-Chloro-3-methylphenol	0.288	0.306	0.200	6.2	25.0
2-Methylnaphthalene	0.643	0.645	0.400	0.3	25.0
Hexachlorocyclopentadiene	0.237	0.171		-28.0	
2,4,6-Trichlorophenol	0.394	0.420	0.200	6.7	25.0
2,4,5-Trichlorophenol	0.390	0.435	0.200	11.6	25.0
1,1'-Biphenyl	1.419	1.399		-1.4	
2-Chloronaphthalene	1.263	1.312	0.800	3.9	25.0
2-Nitroaniline	0.443	0.315		-28.8	
Dimethylphthalate	1.348	1.370		1.7	
2,6-Dinitrotoluene	0.349	0.365	0.200	4.7	25.0
Acenaphthylene	1.900	1.960	1.300	3.1	25.0
3-Nitroaniline	0.438	0.425		-3.0	
Acenaphthene	1.180	1.171	0.800	-0.8	25.0
2,4-Dinitrophenol	0.171	0.151		-11.8	
4-Nitrophenol	0.199	0.151		-24.3	
Dibenzofuran	1.581	1.639	0.800	3.7	25.0
2,4-Dinitrotoluene	0.425	0.468	0.200	10.2	25.0
Diethylphthalate	1.450	1.409		-2.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B365

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/23/20 Time: 15:16

Lab File ID: A\C51505.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.551		15.8	
Benzaldehyde	0.795	0.148		-81.4	
Phenol	2.232	2.253	0.800	0.9	25.0
Bis(2-chloroethyl)ether	1.882	1.977	0.700	5.0	25.0
2-Chlorophenol	1.656	1.584	0.800	-4.4	25.0
2-Methylphenol	1.424	1.450	0.700	1.8	25.0
2,2'-oxybis(1-chloropropane)	2.697	3.437		27.6	
Acetophenone	1.904	1.710		-10.2	
N-Nitroso-di-n-propylamine	0.990	1.089	0.500	10.0	25.0
Hexachloroethane	0.633	0.745	0.300	17.7	25.0
Nitrobenzene	0.404	0.381	0.200	-5.7	25.0
Isophorone	0.943	0.741	0.400	-21.4	25.0
2-Nitrophenol	0.246	0.239	0.100	-2.9	25.0
2,4-Dimethylphenol	0.352	0.343	0.200	-2.6	25.0
Bis(2-chloroethoxy)methane	0.601	0.662	0.300	10.2	25.0
2,4-Dichlorophenol	0.275	0.259	0.200	-5.9	25.0
Naphthalene	1.036	1.092	0.700	5.4	25.0
4-Chloroaniline	0.456	0.532		16.6	
Hexachlorobutadiene	0.139	0.135		-3.1	
Caprolactam	0.123	0.119		-3.1	
4-Chloro-3-methylphenol	0.288	0.277	0.200	-3.9	25.0
2-Methylnaphthalene	0.643	0.605	0.400	-5.9	25.0
Hexachlorocyclopentadiene	0.237	0.129		45.7	
2,4,6-Trichlorophenol	0.394	0.365	0.200	-7.3	25.0
2,4,5-Trichlorophenol	0.390	0.392	0.200	0.6	25.0
1,1'-Biphenyl	1.419	1.465		3.2	
2-Chloronaphthalene	1.263	1.140	0.800	-9.7	25.0
2-Nitroaniline	0.443	0.465		5.0	
Dimethylphthalate	1.348	1.387		2.9	
2,6-Dinitrotoluene	0.349	0.361	0.200	3.6	25.0
Acenaphthylene	1.900	2.154	1.300	13.3	25.0
3-Nitroaniline	0.438	0.465		6.1	
Acenaphthene	1.180	1.225	0.800	3.8	25.0
2,4-Dinitrophenol	0.171	0.196		14.5	
4-Nitrophenol	0.199	0.168		-20.7	
Dibenzofuran	1.581	1.657	0.800	4.8	25.0
2,4-Dinitrotoluene	0.425	0.445	0.200	4.8	25.0
Diethylphthalate	1.450	1.576		8.7	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B377

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/23/20 Time: 15:16

Lab File ID: A\C51505.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.226	0.900	0.5	25.0
4-Chlorophenyl-phenylether	0.544	0.577	0.400	6.1	25.0
4-Nitroaniline	0.448	0.395		-11.8	
4,6-Dinitro-2-methylphenol	0.166	0.161		-3.1	
N-Nitrosodiphenylamine	0.728	0.707		-2.9	
4-Bromophenyl-phenylether	0.210	0.199	0.100	-5.2	25.0
Hexachlorobenzene	0.243	0.234	0.100	-3.8	25.0
Atrazine	0.181	0.151		-16.8	
Pentachlorophenol	0.138	0.111	0.050	-19.8	25.0
Phenanthrene	1.120	1.100	0.700	-1.8	25.0
Anthracene	1.162	1.080	0.700	-7.0	25.0
Carbazole	1.151	1.023		-11.1	
Di-n-butyl phthalate	1.789	1.818		1.6	
Fluoranthene	1.102	1.038	0.600	-5.8	25.0
Pyrene	1.495	1.515	0.600	1.3	25.0
Butyl benzyl phthalate	0.990	1.078		8.9	
3,3'-Dichlorobenzidine	0.318	0.325		2.2	
Benzo(a)anthracene	1.108	1.094	0.800	-1.2	25.0
Chrysene	1.054	1.086	0.700	3.0	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.446		12.0	
Di-n-octyl phthalate	2.401	3.111		29.6	
Benzo(b)fluoranthene	1.193	1.449	0.700	21.5	25.0
Benzo(k)fluoranthene	0.937	1.086	0.700	15.9	25.0
Benzo(a)pyrene	1.086	1.188	0.700	9.4	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.254	0.500	6.6	25.0
Dibenzo(a,h)anthracene	0.947	0.987	0.400	4.2	25.0
Benzo(g,h,i)perylene	1.042	1.080	0.500	3.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B378

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Instrument ID: HP5972 Calibration Date: 12/28/20 Time: 10:36

Lab File ID: A\C51514.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.685		25.8	
Benzaldehyde	0.795	0.148		-81.4	
Phenol	2.232	2.367	0.800	6.0	25.0
Bis(2-chloroethyl)ether	1.882	2.064	0.700	9.6	25.0
2-Chlorophenol	1.656	1.530	0.800	-7.6	25.0
2-Methylphenol	1.424	1.454	0.700	2.1	25.0
2,2'-oxybis(1-chloropropane)	2.697	3.737		38.6	
Acetophenone	1.904	1.758		-7.7	
N-Nitroso-di-n-propylamine	0.990	1.254	0.500	26.6	25.0
Hexachloroethane	0.633	0.886	0.300	40.0	25.0
Nitrobenzene	0.404	0.415	0.200	2.7	25.0
Isophorone	0.943	0.825	0.400	-12.5	25.0
2-Nitrophenol	0.246	0.238	0.100	-3.3	25.0
2,4-Dimethylphenol	0.352	0.354	0.200	0.5	25.0
Bis(2-chloroethoxy)methane	0.601	0.780	0.300	29.8	25.0
2,4-Dichlorophenol	0.275	0.293	0.200	6.4	25.0
Naphthalene	1.036	1.112	0.700	7.4	25.0
4-Chloroaniline	0.456	0.566		24.0	
Hexachlorobutadiene	0.139	0.141		1.2	
Caprolactam	0.123	0.122		-0.6	
4-Chloro-3-methylphenol	0.288	0.282	0.200	-2.2	25.0
2-Methylnaphthalene	0.643	0.609	0.400	-5.3	25.0
Hexachlorocyclopentadiene	0.237	0.111		-53.3	
2,4,6-Trichlorophenol	0.394	0.359	0.200	-8.8	25.0
2,4,5-Trichlorophenol	0.390	0.377	0.200	-3.3	25.0
1,1'-Biphenyl	1.419	1.468		3.4	
2-Chloronaphthalene	1.263	1.333	0.800	5.6	25.0
2-Nitroaniline	0.443	0.417		-5.8	
Dimethylphthalate	1.346	1.401		4.0	
2,6-Dinitrotoluene	0.349	0.343	0.200	-1.6	25.0
Acenaphthylene	1.900	2.029	1.300	6.8	25.0
3-Nitroaniline	0.438	0.431		-1.7	
Acenaphthene	1.180	1.174	0.800	-0.5	25.0
2,4-Dinitrophenol	0.171	0.194		13.3	
4-Nitrophenol	0.199	0.165		-17.2	
Dibenzofuran	1.561	1.676	0.800	6.0	25.0
2,4-Dinitrotoluene	0.425	0.450	0.200	5.9	25.0
Diethylphthalate	1.450	1.561		7.6	

All other compounds must meet a minimum RRF of 0.010.

AECOM063 B388

1G

EPA SAMPLE NO.

MB-34277

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: MB-34277

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51394.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted:(Y/N) N Date Extracted: 12/16/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/17/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	(DEL) Alkane: Branched	3.93	2	J
2. 000301-02-0	9-Octadecenamide, (Z) -	14.47	7	JN
3. 000112-84-5	Erucylamide	15.49	6	JN
4.	unknown	17.27	4	J

AECOM063 B409

1G

EPA SAMPLE NO.

MB-34334

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Matrix: (soil/water) WATER Lab Sample ID: MB-34334

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A\C51468.D

Level: (low/med) LOW Date Received:

% Moisture: Decanted:(Y/N) N Date Extracted: 12/18/09

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 12/21/09

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) SEPF

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown	6.87	4	J

AECOM063 B422

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT	
01	MB-34270	112	104	117	114			0	
02	LFB-34270	121	109	127	124			0	
03	LFB3-34270	105	95	113	106			0	
04	MW1A121409	101	77	111	106			0	
05	MW1B121409	92	64	110	104			0	
06	MW1C121409	95	52	109	105			0	
07	MB-34337	131	131	129	133			0	
08	LFB1-34337	92	87	90	93			0	
09	LFB3-34337	102	94	106	106			0	
10	LCS-34337	76	66	90	89			0	
11	MW3A121509	79	59	91	84			0	
12	MW3C121509	62	40	95	94			0	
13	MW3A121509MS	76	64	99	92			0	
14	MW3A121509MSD	69	61	93	89			0	
15	MW4A121609	1160 *	97	140	94			1	J pos. cal 1
16	MW4A121609D	1210 *	108	168 *	147			2	J pos cal 1

QC Limits

TCX = Tetrachloro-m-xylene (30-150)

DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

AECOM063 PE3

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM063

Sample ID LCS-34337 Level: (low/med) LOW

Column ID CLP Column Diam .32

Inst. ID HP6890-2

Analysis Date: 12/29/09 10:12

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
gamma-BHC	0.5	0	0.31	62	56-123
Heptachlor	0.5	0	0.26	53	40-131
Aldrin	0.5	0	0.36	72	40-120
Dieldrin	1	0	0.7	70	52-126
Endrin	1	0	0.43	43*	56-121
4,4'-DDT	1	0	0.57	57	38-127

J/UJ

Associated with

MW3A121509
MW3C121509
MW4A121609
MW4A121609D

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM III SW8081/8082

AECOM063 PE9

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Lab Sample ID: 0913485-002B Date(s) Analyzed: 12/29/09 12/29/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.60	3.55	3.65	0.12		
	2	3.54	3.52	3.62	2.1	999.9	178 NJ
Heptachlor	1	4.10	4.01	4.11	0.18		
	2	4.00	3.95	4.05	0.048	275.0	116 U@SQL
4,4'-DDE	1	5.82	5.75	5.89	0.24		
	2	6.08	5.99	6.13	0.32	33.3	28.6 -OK
4,4'-DDD	1	6.69	6.61	6.75	0.59		
	2	6.79	6.77	6.91	0.18	227.8	106.5 NJ
Endosulfan sulfate	1	7.75	7.68	7.82	0.093		
	2	7.55	7.50	7.64	0.11	18.3	16.7 -OK
4,4'-DDT	1	7.03	6.94	7.08	0.084		
	2	7.19	7.12	7.26	0.071	18.3	16.8 -OK
Methoxychlor	1	7.55	7.45	7.59	0.68		
	2	7.89	7.78	7.92	0.46	47.8	38.6 -OK
Endrin ketone	1	7.98	7.94	8.08	0.26		
	2	8.03	7.97	8.11	0.068	282.4	117.1 -U@SQL
Endrin aldehyde	1	7.29	7.26	7.40	0.12		
	2	7.30	7.22	7.36	0.064	87.5	60.9 -U@SQL

AECOM063 PE11K

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Lab Sample ID: 0913485-003B Date(s) Analyzed: 12/29/09 12/29/09

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
beta-BHC	1	3.60	3.55	3.65	0.12		
	2	3.54	3.52	3.62	2.0	999.9	177 JN
Heptachlor	1	4.01	4.01	4.11	0.45		
	2	4.00	3.95	4.05	0.048	837.5	161 U@SQL
4,4'-DDE	1	5.82	5.75	5.89	0.23		
	2	6.08	5.99	6.13	0.34	47.8	38.6 -OK
4,4'-DDD	1	6.69	6.61	6.75	0.32		
	2	6.79	6.77	6.91	0.22	45.5	37.0 -OK
Endosulfan sulfate	1	7.75	7.68	7.82	0.096		
	2	7.55	7.50	7.64	0.19	97.9	65.7 U@SQL
Endrin ketone	1	7.99	7.94	8.08	0.15		
	2	8.03	7.97	8.11	0.093	61.3	46.9 J
Endrin aldehyde	1	7.29	7.26	7.40	0.37		
	2	7.30	7.22	7.36	0.072	413.9	135 U@SQL

AECOM063 PE112

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

GC Column: CLP ID: .32 (mm) Init. Calib. Date(s): 12/16/2009 12/16/2009

EPA Sample No.(PIBLK##): PIBLK02 Date Analyzed: 12/16/09

Lab Sample ID(PIBLK): PIBLK02 Time Analyzed: 19:22

EPA Sample No.(INDAM##): indam02 Date Analyzed: 12/16/09

Lab Sample ID(INDA): indam02 Time Analyzed: 19:36

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	3.23	3.18	3.28	0.012	0.010	20.0
gamma-BHC	3.56	3.51	3.61	0.012	0.010	20.0
Heptachlor	4.11	4.06	4.16	0.012	0.010	20.0
Endosulfan I	5.98	5.91	6.05	0.011	0.010	10.0
Dieldrin	6.34	6.27	6.41	0.023	0.020	15.0
Endrin	6.64	6.57	6.71	0.024	0.020	20.0
4,4´-DDD	6.73	6.66	6.80	0.024	0.020	20.0
4,4´-DDT	7.06	6.99	7.13	0.025	0.020	25.0
Methoxychlor	7.56	7.49	7.63	0.13	0.10	30.0
Tetrachloro-m-xylene	2.71	2.67	2.77	0.012	0.010	20.0
Decachlorobiphenyl	8.93	8.83	9.03	0.023	0.020	15.0

5/05

5/05

EPA Sample No.(INDBM##) INDBM02 Date Analyzed: 12/16/09

Lab Sample ID (INDB): INDBM02 Time Analyzed: 19:51

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	3.65	3.60	3.70	0.011	0.010	10.0
delta-BHC	3.86	3.81	3.91	0.011	0.010	10.0
Aldrin	4.50	4.45	4.55	0.011	0.010	10.0
Heptachlor epoxide	5.36	5.29	5.43	0.011	0.010	10.0
4,4´-DDE	5.89	5.82	5.96	0.021	0.020	5.0
Endosulfan II	6.91	6.84	6.98	0.021	0.020	5.0
Endosulfan sulfate	7.80	7.73	7.87	0.022	0.020	10.0
Endrin ketone	8.05	7.98	8.12	0.022	0.020	10.0
Endrin aldehyde	7.37	7.30	7.44	0.021	0.020	5.0
alpha-chlordane	5.76	5.69	5.83	0.011	0.010	10.0
gamma-chlordane	5.55	5.48	5.62	0.011	0.010	10.0
Tetrachloro-m-xylene	2.71	2.67	2.77	0.012	0.010	20.0
Decachlorobiphenyl	8.93	8.83	9.03	0.023	0.020	15.0

5/05
No surrogate

AECOM063 PE103

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

GC Column: CLP2 ID: .32 (mm) Init. Calib. Date(s): 12/16/2009 12/16/2009

EPA Sample No.(PIBLK##): PIBLK02 Date Analyzed: 12/16/09

Lab Sample ID(PIBLK): PIBLK02 Time Analyzed: 19:22

EPA Sample No.(INDAM##): indam02 Date Analyzed: 12/16/09

Lab Sample ID(INDA): indam02 Time Analyzed: 19:36

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	3.17	3.12	3.22	0.011	0.010	10.0
gamma-BHC	3.54	3.49	3.59	0.011	0.010	10.0
Heptachlor	4.06	4.01	4.11	0.011	0.010	10.0
Endosulfan I	5.92	5.85	5.99	0.011	0.010	10.0
Dieldrin	6.33	6.26	6.40	0.021	0.020	5.0
Endrin	6.72	6.65	6.79	0.021	0.020	5.0
4,4´-DDD	6.89	6.82	6.96	0.022	0.020	10.0
4,4´-DDT	7.23	7.16	7.30	0.023	0.020	15.0
Methoxychlor	7.89	7.82	7.96	0.12	0.10	20.0
Tetrachloro-m-xylene	2.62	2.57	2.67	0.011	0.010	10.0
Decachlorobiphenyl	9.21	9.11	9.31	0.021	0.020	5.0

EPA Sample No.(INDBM##) INDBM02 Date Analyzed: 12/16/09

Lab Sample ID (INDB): INDBM02 Time Analyzed: 19:51

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	3.62	3.57	3.67	0.0098	0.010	-2.0
delta-BHC	3.96	3.92	4.02	0.0099	0.010	-1.0
Aldrin	4.48	4.43	4.53	0.0096	0.010	-4.0
Heptachlor epoxide	5.30	5.23	5.37	0.0098	0.010	-2.0
4,4´-DDE	6.12	6.05	6.19	0.019	0.020	-5.0
Endosulfan II	6.97	6.90	7.04	0.020	0.020	0.0
Endosulfan sulfate	7.61	7.54	7.68	0.020	0.020	0.0
Endrin ketone	8.08	8.01	8.15	0.020	0.020	0.0
Endrin aldehyde	7.34	7.27	7.41	0.020	0.020	0.0
alpha-chlordane	5.83	5.76	5.90	0.0097	0.010	-3.0
gamma-chlordane	5.59	5.52	5.66	0.0097	0.010	-3.0
Tetrachloro-m-xylene	2.62	2.57	2.67	0.011	0.010	10.0
Decachlorobiphenyl	9.21	9.11	9.31	0.022	0.020	10.0

AECOM063 PE104

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

GC Column: CLP ID: .32 (mm) Init. Calib. Date(s): 12/23/2009 12/23/2009

EPA Sample No.(PIBLK##): PIBLK04 Date Analyzed: 12/29/09

Lab Sample ID(PIBLK): PIBLK04 Time Analyzed: 12:31

EPA Sample No.(INDAM##): indam03 Date Analyzed: 12/29/09

Lab Sample ID(INDA): indam03 Time Analyzed: 12:46

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	3.19	3.14	3.24	0.011	0.010	10.0
gamma-BHC	3.51	3.46	3.56	0.010	0.010	0.0
Heptachlor	4.06	4.01	4.11	0.010	0.010	0.0
Endosulfan I	5.92	5.84	5.98	0.011	0.010	10.0
Dieldrin	6.28	6.21	6.35	0.021	0.020	5.0
Endrin	6.59	6.52	6.66	0.020	0.020	0.0
4,4´-DDD	6.68	6.61	6.75	0.021	0.020	5.0
4,4´-DDT	7.01	6.94	7.08	0.019	0.020	-5.0
Methoxychlor	7.52	7.45	7.59	0.094	0.10	-6.0
Tetrachloro-m-xylene	2.67	2.62	2.72	0.011	0.010	10.0
Decachlorobiphenyl	8.88	8.78	8.98	0.021	0.020	5.0

EPA Sample No.(INDBM##) INDBM03 Date Analyzed: 12/29/09

Lab Sample ID (INDB): INDBM03 Time Analyzed: 13:01

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	3.60	3.55	3.65	0.012	0.010	20.0
delta-BHC	3.81	3.76	3.86	0.011	0.010	10.0
Aldrin	4.44	4.39	4.49	0.012	0.010	20.0
Heptachlor epoxide	5.30	5.23	5.37	0.012	0.010	20.0
4,4´-DDE	5.82	5.75	5.89	0.023	0.020	15.0
Endosulfan II	6.86	6.79	6.93	0.023	0.020	15.0
Endosulfan sulfate	7.76	7.68	7.82	0.023	0.020	15.0
Endrin ketone	8.01	7.94	8.08	0.023	0.020	15.0
Endrin aldehyde	7.33	7.26	7.40	0.023	0.020	15.0
alpha-chlordane	5.69	5.62	5.76	0.012	0.010	20.0
gamma-chlordane	5.49	5.42	5.56	0.012	0.010	20.0
Tetrachloro-m-xylene	2.67	2.62	2.72	0.011	0.010	10.0
Decachlorobiphenyl	8.88	8.78	8.98	0.021	0.020	5.0

AECOM063 PE105

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

GC Column: CLP2 ID: .32 (mm) Init. Calib. Date(s): 12/23/2009 12/23/2009

EPA Sample No.(PIBLK##): PIBLK04 Date Analyzed: 12/29/09

Lab Sample ID(PIBLK): PIBLK04 Time Analyzed: 12:31

EPA Sample No.(INDAM##): indam03 Date Analyzed: 12/29/09

Lab Sample ID(INDA): indam03 Time Analyzed: 12:46

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	3.12	3.07	3.17	0.0099	0.010	-1.0
gamma-BHC	3.49	3.44	3.54	0.0099	0.010	-1.0
Heptachlor	4.00	3.95	4.05	0.0092	0.010	-8.0
Endosulfan I	5.85	5.78	5.92	0.010	0.010	0.0
Dieldrin	6.27	6.20	6.34	0.020	0.020	0.0
Endrin	6.67	6.60	6.74	0.018	0.020	-10.0
4,4´-DDD	6.84	6.77	6.91	0.019	0.020	-5.0
4,4´-DDT	7.19	7.12	7.26	0.017	0.020	-15.0
Methoxychlor	7.85	7.78	7.92	0.086	0.10	-14.0
Tetrachloro-m-xylene	2.58	2.53	2.63	0.010	0.010	0.0
Decachlorobiphenyl	9.16	9.06	9.26	0.021	0.020	5.0

EPA Sample No.(INDBM##) INDBM03 Date Analyzed: 12/29/09

Lab Sample ID (INDB): INDBM03 Time Analyzed: 13:01

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	3.57	3.52	3.62	0.011	0.010	10.0
delta-BHC	3.91	3.86	3.96	0.011	0.010	10.0
Aldrin	4.42	4.37	4.47	0.011	0.010	10.0
Heptachlor epoxide	5.23	5.16	5.30	0.011	0.010	10.0
4,4´-DDE	6.06	5.99	6.13	0.022	0.020	10.0
Endosulfan II	6.93	6.86	7.00	0.022	0.020	10.0
Endosulfan sulfate	7.57	7.50	7.64	0.022	0.020	10.0
Endrin ketone	8.04	7.97	8.11	0.021	0.020	5.0
Endrin aldehyde	7.29	7.22	7.36	0.022	0.020	10.0
alpha-chlordane	5.76	5.69	5.83	0.011	0.010	10.0
gamma-chlordane	5.53	5.46	5.60	0.011	0.010	10.0
Tetrachloro-m-xylene	2.58	2.53	2.63	0.010	0.010	0.0
Decachlorobiphenyl	9.16	9.06	9.26	0.021	0.020	5.0

AECOM063 PE106

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

MW4A121609

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Lab Sample ID: 0913485-002B Date(s) Analyzed: 1/6/2010 1/6/2010

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
2,4-DB	1	4.95	4.92	4.98	0.98	
	2	4.75	4.70	4.76	7.2	640.2

RPD

160% R

page 4 of 6

FORM X PEST- 1 SW8151

AECOM063 H81

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

MW4A121609D

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM063

Lab Sample ID: 0913485-003B Date(s) Analyzed: 1/6/2010 1/6/2010

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
2,4-D	1	3.72	3.69	3.75	1.1	
	2	3.53	3.52	3.58	.67	58.1
2,4-DB	1	4.95	4.92	4.98	0.94	
	2	4.70	4.70	4.76	2.0	112.8

RPD

48.6 J

72 JN

FORM X PEST- 1 SW8151

AECOM063 H82

H2M LABS, INC.

23743

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: [signature] /AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest+Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
				Sample Container Description →	ANALYSIS REQUESTED										
12/14/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/14/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/14/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/14/09	1438	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/14/09	15:16	S. Ward	12.14.09	15.16
S. Ward	12-14-09	16.52	[signature]	12/14/09	16:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered: X Airbill# ___
2. Ambient or chilled, Temp 10°-11°C on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL — YELLOW COPY - CLIENT — PINK COPY - LABORATORY

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
MW3A121509S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2193.5100		17.6661	U	2000.00	109.7		P
Antimony	75-125	528.9391		2.1382	U	500.00	105.8		P
Arsenic	75-125	87.3183		49.3264		40.00	95.0		P
Barium	75-125	2114.3500		143.6100	B	2000.00	98.5		P
Beryllium	75-125	48.8500		0.2601	U	50.00	97.7		P
Cadmium	75-125	47.8500		0.3382	U	50.00	95.7		P
Chromium	75-125	194.3000		0.4357	U	200.00	97.2		P
Cobalt	75-125	483.5200		1.1589	U	500.00	96.7		P
Copper	75-125	261.0800		1.9700	B	250.00	103.6		P
Cyanide	75-125	204.2409		106.9840		100.00	97.3		CA
Iron		10213.4900		9620.7800		1000.00	59.3		P
Lead	75-125	21.0638		1.8457	U	20.00	105.3		P
Manganese	75-125	1506.7100		1075.7000		500.00	86.2		P
Mercury	75-125	0.9700		0.1000	U	1.00	97.0		CV
Nickel	75-125	480.8900		4.0900	B	500.00	95.4		P
Selenium	75-125	13.9884		2.4823	U	10.00	139.9	N	P
Silver	75-125	49.2711		0.8289	U	50.00	98.5		P
Thallium	75-125	48.1256		3.2034	U	50.00	96.3		P
Vanadium	75-125	491.8000		1.4003	U	500.00	98.4		P
Zinc	75-125	531.9500		14.1200	B	500.00	103.6		P

Comments:

AECOM063 M34

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

MW3A121509

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM063

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	17.70	U	88.30	U			P
Antimony	2.10	U	10.70	U			P
Arsenic	49.33		41.14	B	16.6		P
Barium	143.61	B	147.50	B	2.7		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.34	U	1.70	U			P
Calcium	282657.22		285670.20		1.1		P
Chromium	0.44	U	2.20	U			P
Cobalt	1.20	U	5.80	U			P
Copper	1.97	B	4.10	U	100.0		P
Iron	9620.78		9716.10		1.0		P
Lead	1.80	U	9.20	U			P
Magnesium	58133.68		58407.95		0.5		P
Manganese	1075.70		1107.15		2.9		P
Nickel	4.09	B	7.10	U	100.0		P
Potassium	34936.82		28403.25		18.7	E	P
Selenium	2.50	U	12.40	U			P
Silver	0.83	U	4.10	U			P
Sodium	89914.04		83313.95		7.3		P
Thallium	3.20	U	16.00	U			P
Vanadium	1.40	U	7.00	U			P
Zinc	14.12	B	23.30	B	65.0		P

AECOM063 M39

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: AECOM064

Customer Sample Code	Laboratory Sample Code	Analytical Requirements ME	MSSEMI	MSVOA	WC
MW6B121409	0913342-001	X	X	X	X
SB121409-2	0913342-002			X	
MW4B121509	0913464-001	X	X	X	X
MW4C121509	0913464-002	X	X	X	X
MW4C121509D	0913464-003	X	X	X	X
MW6A121509	0913464-004	X	X	X	X
MW7A121509	0913464-005	X	X	X	X
MW7B121509	0913464-006	X	X	X	X
TB121509	0913464-007			X	
MW2A121609	0913486-001	X	X	X	X
MW2B121609	0913486-002	X	X	X	X
MW5A121609	0913486-003	X	X	X	X
MW5B121609	0913486-004	X	X	X	X
PW1121609	0913486-005	X	X	X	X

CLP, Non-CLP (Please indicate year of protocol)

ASP B 2000
OG 1/8/10

AECOM064 A3

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23743

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: [signature] / AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest +Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED: ORGANIC							INORG.			
					VOA	BNA	PEST PCB					METAL	WET		
12/14/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/14/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/14/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/14/09	1438	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/14/09	1516	S. Wed	12-14-09	15.16
S. Wed	12-14-09	16.52	[signature]	12/14/09	16:52

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled Temp 10°-11°C on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

AECOM064 A12

H2M LABS, INC.

AECOM064

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/14/2009 4:52:00 PM

Work Order Number 0913342

Received by dmc

Checklist completed by _____ 12/14/09
Signature Date

Reviewed by JSA 12/15/09
Initials Date

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No	
Sufficient sample volume for indicated test?	Yes ☑	No	
All samples received within holding time?	Yes ☑	No	
Container/Temp Blank temperature in compliance?	Yes ☑	No	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

AECOM064 A13

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

23144

EXTERNAL CHAIN OF CUSTODY

CLIENT: | **H2M SDG NO:** AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: M. Sands / AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest Herb	VOCs	SVOCs	Metal	CN	LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED										
					ORGANIC							INORG.			
					VOA	BNA	Pest/PCB								
12/15/08	0900	GW	MW6A121509	7			X	X		X	X			0913464-004	
12/15/08	1008	GW	MW3C121509	9	X	X	X	X	X					0913450-002	MW3C121509
12/15/08	1105	GW	MW7B121509	7			X	X		X	X			0913464-006	
12/15/08	1135	GW	MW3A121509	27	X	X	X	X	X					0913450-001	MS/MSD
12/15/08	1320	GW	MW7A121509	7			X	X		X	X			0913464-005	
12/15/08	1450	GW	MW4C121509	7			X	X		X	X			-002	
12/15/08	1455	GW	MW4C121509D	7			X	X		X	X			-003	
12/15/08	1505	GW	MW4B121509	7			X	X		X	X			-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/15/08	3:17		12/15/08	3:17
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/15/08	5:30		12/16/08	17:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ____
2. Ambient or chilled Temp 2.4° - 4.9°C
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM064 A22

H2M LABS, INC.

AECOM064

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/15/2009 5:30:00 PM

Work Order Number 0913464

Received by dmc

Checklist completed by _____ 12/16/09 (Signature / Date)

Reviewed by JSA 12/21/09 (Initials / Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

_____

_____

Corrective Action _____

_____

_____

AECOM064 A23

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

EXTERNAL CHAIN OF CUSTODY

CLIENT: AECOM **H2M SDG NO:** AECOM063/064

PROJECT NAME/NUMBER: Equity / Nat Grid 601373762

SAMPLERS: (signature)/Client: [signature] /AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PIS/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description →	TCL VOCs	SVOCs	VOCs	Tot CN	TAL Metals	TCL Pest/Herb/PCB			ORG	LAB I.D. NO.	REMARKS:
					ANALYSIS REQUESTED	ORGANIC										
12/16/09	0820	GW	MW3A121609	9		X									0913485-001	MS/MSD
12/16/09	1115	GW	MW4A121609	10		X	X		X	X	X				-002	
12/16/09	1120	GW	MW4A121609D	7		X					X				-003	
12/16/09	1350	GW	MW2A121609	7			X	X	X	X					0913486-001	
	1345	GW	MW2B121609	7			X	X	X	X					-002	
	1025	GW	MW5A121609	7			X	X	X	X					-004	
	0920	GW	MW5B121609	7			X	X	X	X					-004	
	1140	GW	PW1121609	7			X	X	X	X					-005	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/16/09	1426	[signature]	12/16/09	1426
[signature]	12/16/09	1630	[signature]	12/16/09	16:30

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled, Temp 3.8 - 5.7°C
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM064 A32

H2M LABS, INC.

AECOM064

Sample Receipt Checklist

Client Name AECOM

Date and Time Received: 12/16/2009 4:30:00 PM

Work Order Number 0913486

Received by dmc

Checklist completed by (Signature) 12/16/09 (Date)

Reviewed by (Initials) 12/21/09 (Date)

Matrix:

Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

AECOM064 A33

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK122309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: VBLK122309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67862.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-71-8	Dichlorodifluoromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl chloride	5	U
75-00-3	Chloroethane	5	U
75-09-2	Methylene chloride	5	U
67-64-1	Acetone	25	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-15-0	Carbon disulfide	5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
79-20-9	Methyl Acetate	5	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
56-23-5	Carbon tetrachloride	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
110-82-7	Cyclohexane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U

AECOM064 V286

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK122309

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Matrix: (soil/water) WATER Lab Sample ID: VBLK122309

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A67862.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 12/23/09

GC Column: ZB-624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
108-87-2	Methylcyclohexane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
108-38-3/106-42-3	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U
106-93-4	1,2-Dibromoethane	5	U
98-82-8	Isopropylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	1	J

AECOM064 V287

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB122109 Level: (low/med) LOW

Column ID ZB-624 Column Diam .18

Inst. ID HP5971 Init. Calib. Date(s): 10/07/09 14:53

Analysis Date: 12/21/09 12:27 10/07/09 17:33

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	41	82	70-114
Dichlorodifluoromethane	50	0	42	84	50-150
Bromomethane	50	0	51	102	50-136
Vinyl chloride	50	0	42	84	66-117
Chloroethane	50	0	44	88	71-116
Methylene chloride	50	0	48	95	80-112
Acetone	50	0	63	126*	71-125
Trichlorofluoromethane	50	0	41	83	10-144
1,1-Dichloroethene	50	0	41	82	67-120
Carbon disulfide	50	0	42	83	61-126
1,1,2-Trichloro-1,2,2-trifluoroethane	50	0	40	80	53-122
1,1-Dichloroethane	50	0	45	90	77-114
Chloroform	50	0	46	92	75-119
1,2-Dichloroethane	50	0	51	102	76-120
Methyl Acetate	50	0	59	118	45-175
2-Butanone	50	0	58	116	74-121
1,1,1-Trichloroethane	50	0	44	88	66-126
trans-1,2-Dichloroethene	50	0	43	87	74-115
Carbon tetrachloride	50	0	43	85	64-126
Methyl tert-butyl ether	50	0	52	104	61-138
Bromodichloromethane	50	0	49	97	78-118
1,2-Dichloropropane	50	0	47	94	81-115
cis-1,2-Dichloroethene	50	0	46	92	78-116
cis-1,3-Dichloropropene	50	0	47	94	79-116
Trichloroethene	50	0	43	87	72-121
Dibromochloromethane	50	0	50	99	75-125
1,1,2-Trichloroethane	50	0	52	104	82-116
Benzene	50	0	46	91	77-116
Cyclohexane	50	0	41	82	33-152
trans-1,3-Dichloropropene	50	0	50	100	77-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

AECOM064 V4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB122109 Level: (low/med) LOW

Column ID ZB-624 Column Diam .18

Inst. ID HP5971 Init. Calib. Date(s): 10/07/09 14:53

Analysis Date: 12/21/09 12:27 10/07/09 17:33

Bromoform	50	0	54	107	75-121
4-Methyl-2-pentanone	50	0	58	117	79-121
2-Hexanone	50	0	58	117	76-119
Tetrachloroethene	50	0	43	87	59-133
1,1,2,2-Tetrachloroethane	50	0	55	111	77-120
Methylcyclohexane	50	0	41	82	22-171
Toluene	50	0	45	89	70-125
Chlorobenzene	50	0	46	91	72-124
Ethylbenzene	50	0	44	88	68-128
Styrene	50	0	44	89	72-124
m,p-Xylene	100	0	88	88	70-125
o-Xylene	50	0	44	89	70-125
1,2-Dibromoethane	50	0	52	104	55-109
Isopropylbenzene	50	0	43	85	58-131
1,3-Dichlorobenzene	50	0	44	88	61-133
1,4-Dichlorobenzene	50	0	44	88	59-134
1,2-Dichlorobenzene	50	0	46	92	60-134
1,2-Dibromo-3-chloropropane	50	0	56	112	33-137
1,2,4-Trichlorobenzene	50	0	47	93	10-175

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 49 outside limits

COMMENTS:

AECOM064 V5

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/21/09 Time: 11:28

Lab File ID: A\A67813.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	3.270		10.0	
Dichlorodifluoromethane	2.062	2.295		11.3	
Bromomethane	1.121	1.115	0.100	-0.5	25.0
Vinyl chloride	2.606	2.651	0.100	1.7	25.0
Chloroethane	1.329	1.452		9.2	
Methylene chloride	2.687	2.793		3.9	
Acetone	0.698	0.702		0.6	
Trichlorofluoromethane	2.198	3.248		47.8	
1,1-Dichloroethene	1.934	1.973	0.100	2.0	25.0
Carbon disulfide	8.200	7.998		-2.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	2.174		12.6	
1,1-Dichloroethane	4.669	5.018	0.200	7.5	25.0
Chloroform	4.180	4.894	0.200	17.1	25.0
1,2-Dichloroethane	3.142	3.922	0.100	24.8	25.0
Methyl Acetate	2.540	2.173		-14.5	
2-Butanone	1.371	1.348		-1.7	
1,1,1-Trichloroethane	0.561	0.578	0.100	3.0	25.0
trans-1,2-Dichloroethene	2.382	2.403		0.9	
Carbon tetrachloride	0.444	0.488	0.100	10.0	25.0
Methyl tert-butyl ether	6.769	7.442		9.9	
Bromodichloromethane	0.611	0.613	0.200	0.3	25.0
1,2-Dichloropropane	0.516	0.443		-14.1	
cis-1,2-Dichloroethene	2.757	2.928		6.2	
cis-1,3-Dichloropropene	0.811	0.734	0.200	-9.5	25.0
Trichloroethene	0.480	0.412	0.300	-14.2	25.0
Dibromochloromethane	0.504	0.496	0.100	-1.5	25.0
1,1,2-Trichloroethane	0.439	0.375	0.100	-14.6	25.0
Benzene	1.856	1.574	0.500	-15.2	25.0
Cyclohexane	0.721	0.616		-14.5	
trans-1,3-Dichloropropene	0.732	0.656	0.100	-10.3	25.0
Bromoform	0.360	0.348	0.100	-3.2	25.0
4-Methyl-2-pentanone	0.650	0.531		-18.3	
2-Hexanone	0.401	0.349		-13.0	
Tetrachloroethene	0.384	0.338	0.200	-12.0	25.0
1,1,2,2-Tetrachloroethane	0.607	0.506	0.500	-16.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V247

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/21/09 Time: 11:28

Lab File ID: A\A67813.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.527	0.463		-12.1	
Toluene	1.913	1.702	0.400	-11.0	25.0
Chlorobenzene	1.297	1.176	0.500	-9.3	25.0
Ethylbenzene	0.627	0.559	0.100	-10.9	25.0
Styrene	1.331	1.211	0.300	-9.0	25.0
m,p-Xylene	0.763	0.682	0.300	-10.7	25.0
o-Xylene	0.787	0.715	0.300	-9.2	25.0
1,2-Dibromoethane	0.522	0.445		-14.8	
Isopropylbenzene	1.760	1.629		-7.4	
1,3-Dichlorobenzene	0.945	0.850		-10.1	
1,4-Dichlorobenzene	0.986	0.848		-14.0	
1,2-Dichlorobenzene	0.916	0.822		-10.2	
1,2-Dibromo-3-chloropropane	0.087	0.081		-6.8	
1,2,4-Trichlorobenzene	0.543	0.533		-1.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V248

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/22/09 Time: 9:50

Lab File ID: A\A67837.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	2.930		-1.5	
Dichlorodifluoromethane	2.062	2.130		3.3	
Bromomethane	1.121	0.791	0.100	-29.4	25.0
Vinyl chloride	2.606	2.421	0.100	-7.1	25.0
Chloroethane	1.329	1.321		-0.6	
Methylene chloride	2.687	2.828		5.2	
Acetone	0.698	0.814		16.7	
Trichlorofluoromethane	2.198	3.086		40.4	
1,1-Dichloroethene	1.934	1.950	0.100	0.8	25.0
Carbon disulfide	8.200	8.198		0.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	1.842		-4.6	
1,1-Dichloroethane	4.669	5.183	0.200	11.0	25.0
Chloroform	4.180	5.001	0.200	19.6	25.0
1,2-Dichloroethane	3.142	3.899	0.100	24.1	25.0
Methyl Acetate	2.540	2.399		-5.6	
2-Butanone	1.371	1.502		9.6	
1,1,1-Trichloroethane	0.561	0.635	0.100	13.2	25.0
trans-1,2-Dichloroethene	2.382	2.511		5.4	
Carbon tetrachloride	0.444	0.527	0.100	18.8	25.0
Methyl tert-butyl ether	6.769	7.598		12.2	
Bromodichloromethane	0.611	0.681	0.200	11.5	25.0
1,2-Dichloropropane	0.516	0.487		-5.5	
cis-1,2-Dichloroethene	2.757	3.120		13.2	
cis-1,3-Dichloropropene	0.811	0.841	0.200	3.7	25.0
Trichloroethene	0.480	0.481	0.300	0.1	25.0
Dibromochloromethane	0.504	0.557	0.100	10.6	25.0
1,1,2-Trichloroethane	0.439	0.427	0.100	-2.7	25.0
Benzene	1.856	1.804	0.500	-2.8	25.0
Cyclohexane	0.721	0.583		-19.1	
trans-1,3-Dichloropropene	0.732	0.753	0.100	2.9	25.0
Bromoform	0.360	0.399	0.100	10.9	25.0
4-Methyl-2-pentanone	0.650	0.611		-6.0	
2-Hexanone	0.401	0.399		-0.6	
Tetrachloroethene	0.384	0.378	0.200	-1.6	25.0
1,1,2,2-Tetrachloroethane	0.607	0.561	0.500	-7.5	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V254

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/22/09 Time: 9:50

Lab File ID: A\A67837.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.527	0.419		-20.5	
Toluene	1.913	1.902	0.400	-0.6	25.0
Chlorobenzene	1.297	1.305	0.500	0.6	25.0
Ethylbenzene	0.627	0.621	0.100	-1.0	25.0
Styrene	1.331	1.349	0.300	1.3	25.0
m,p-Xylene	0.763	0.765	0.300	0.2	25.0
o-Xylene	0.787	0.781	0.300	-0.8	25.0
1,2-Dibromoethane	0.522	0.497		-4.8	
Isopropylbenzene	1.760	1.813		3.0	
1,3-Dichlorobenzene	0.945	0.954		0.9	
1,4-Dichlorobenzene	0.986	0.965		-2.2	
1,2-Dichlorobenzene	0.916	0.901		-1.6	
1,2-Dibromo-3-chloropropane	0.087	0.091		4.8	
1,2,4-Trichlorobenzene	0.543	0.604		11.3	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V255

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/23/09 Time: 11:07

Lab File ID: A\A67861.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	2.973	2.707		-9.0	
Dichlorodifluoromethane	2.062	1.972		-4.4	
Bromomethane	1.121	0.845	0.100	-24.6	25.0
Vinyl chloride	2.606	2.259	0.100	-13.3	25.0
Chloroethane	1.329	1.304		-1.9	
Methylene chloride	2.687	2.853		6.2	
Acetone	0.698	0.852		22.1	
Trichlorofluoromethane	2.198	2.898		31.8	
1,1-Dichloroethene	1.934	1.904	0.100	-1.6	25.0
Carbon disulfide	8.200	7.925		-3.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.932	1.727		-10.6	
1,1-Dichloroethane	4.669	5.116	0.200	9.6	25.0
Chloroform	4.180	4.973	0.200	19.0	25.0
1,2-Dichloroethane	3.142	4.009	0.100	27.6	25.0
Methyl Acetate	2.540	2.573		1.3	
2-Butanone	1.371	1.587		15.8	
1,1,1-Trichloroethane	0.561	0.564	0.100	0.5	25.0
trans-1,2-Dichloroethene	2.382	2.421		1.6	
Carbon tetrachloride	0.444	0.469	0.100	5.7	25.0
Methyl tert-butyl ether	6.769	7.808		15.3	
Bromodichloromethane	0.611	0.642	0.200	5.1	25.0
1,2-Dichloropropane	0.516	0.465		-9.8	
cis-1,2-Dichloroethene	2.757	3.052		10.7	
cis-1,3-Dichloropropene	0.811	0.776	0.200	-4.3	25.0
Trichloroethene	0.480	0.434	0.300	-9.6	25.0
Dibromochloromethane	0.504	0.540	0.100	7.2	25.0
1,1,2-Trichloroethane	0.439	0.414	0.100	-5.7	25.0
Benzene	1.856	1.674	0.500	-9.8	25.0
Cyclohexane	0.721	0.506		-29.8	
trans-1,3-Dichloropropene	0.732	0.707	0.100	-3.4	25.0
Bromoform	0.360	0.395	0.100	9.8	25.0
4-Methyl-2-pentanone	0.650	0.616		-5.2	
2-Hexanone	0.401	0.402		0.2	
Tetrachloroethene	0.384	0.340	0.200	-11.5	25.0
1,1,2,2-Tetrachloroethane	0.607	0.553	0.500	-8.8	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V261

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5971 Calibration Date: 12/23/09 Time: 11:07

Lab File ID: A\A67861.D Init. Calib. Date(s): 10/07/09 10/07/09

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 14:53 17:33

Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methylcyclohexane	0.527	0.374		-29.0	
Toluene	1.913	1.760	0.400	-8.0	25.0
Chlorobenzene	1.297	1.215	0.500	-6.3	25.0
Ethylbenzene	0.627	0.575	0.100	-8.3	25.0
Styrene	1.331	1.265	0.300	-5.0	25.0
m,p-Xylene	0.763	0.700	0.300	-8.3	25.0
o-Xylene	0.787	0.722	0.300	-8.3	25.0
1,2-Dibromoethane	0.522	0.490		-6.1	
Isopropylbenzene	1.760	1.647		-6.4	
1,3-Dichlorobenzene	0.945	0.901		-4.7	
1,4-Dichlorobenzene	0.986	0.912		-7.5	
1,2-Dichlorobenzene	0.916	0.869		-5.1	
1,2-Dibromo-3-chloropropane	0.087	0.088		1.3	
1,2,4-Trichlorobenzene	0.543	0.576		6.1	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 V262

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 12/22/09

Lab File ID (Standard): A\C51482.D Time Analyzed: 10:59

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	37648	4.26	135142	5.74	62933	8.74
	UPPER LIMIT	75296	4.76	270284	6.24	125866	9.24
	LOWER LIMIT	18824	3.76	67571	5.24	31467	8.24
	EPA SAMPLE NO.						
01	MW4B121509DL	38536	4.26	136304	5.73	63432	8.73
02	MW4C121509DL	39266	4.26	138041	5.73	64832	8.73
03	MW4C121509DDL	42711	4.26	146237	5.73	67015	8.73
04	MW7B121509DL	38701	4.26	136371	5.73	63406	8.73
05	MB-34371	40979	4.26	142869	5.73	66194	8.73
06	LFB-34371	44338	4.26	159469	5.74	74833	8.74
07	PW1121609	46717	4.27	67268* 49.8	5.80	74802	8.74
08	MW2A121609	44735	4.26	158671	5.73	75890	8.73
09	MW2B121609	44275	4.26	79423	5.79	72814	8.74
10	MW5A121609	41907	4.26	132979	5.75	85990	8.75
11	MW5B121609	44123	4.28	49801* 36.8	6.04	71029	8.77

Nitrobenzene → 2-Methylnaphthalene

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34277 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/17/09 11:49 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	32	63	60-140
Benzaldehyde	50	0	120	249*	40-140
Phenol	50	0	19	38	25-131
Bis(2-chloroethyl)ether	50	0	39	78	39-111
2-Chlorophenol	50	0	37	74	48-116
2-Methylphenol	50	0	35	70	41-131
2,2´-oxybis(1-chloropropane)	50	0	37	75	28-146
Acetophenone	50	0	40	80	60-140
N-Nitroso-di-n-propylamine	50	0	48	97	40-124
Hexachloroethane	50	0	26	51	41-119
Nitrobenzene	50	0	42	84	48-126
Isophorone	50	0	43	87	33-131
2-Nitrophenol	50	0	42	84	41-121
2,4-Dimethylphenol	50	0	39	78	39-135
Bis(2-chloroethoxy)methane	50	0	35	70	20-148
2,4-Dichlorophenol	50	0	44	87	46-130
Naphthalene	50	0	36	72	47-117
4-Chloroaniline	50	0	42	85	25-133
Hexachlorobutadiene	50	0	27	54	11-135
Caprolactam	50	0	13	27*	40-140
4-Chloro-3-methylphenol	50	0	44	88	45-135
2-Methylnaphthalene	50	0	36	72	60-140
Hexachlorocyclopentadiene	50	0	30	61	13-119
2,4,6-Trichlorophenol	50	0	44	88	53-131
2,4,5-Trichlorophenol	50	0	46	92	48-132
1,1´-Biphenyl	50	0	36	73	40-140
2-Chloronaphthalene	50	0	32	63	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	46	92	10-162
2,6-Dinitrotoluene	50	0	48	96	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

AECOM064 B4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34277 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/17/09 11:49 11/23/09 16:57

Acenaphthylene	50	0	39	78	61-135
3-Nitroaniline	50	0	47	94	11-167
Acenaphthene	50	0	40	79	36-132
2,4-Dinitrophenol	50	0	49	98	11-101
4-Nitrophenol	50	0	20	40	22-156
Dibenzofuran	50	0	42	84	24-156
2,4-Dinitrotoluene	50	0	50	99	48-134
Diethylphthalate	50	0	46	92	24-156
Fluorene	50	0	41	83	55-129
4-Chlorophenyl-phenylether	50	0	39	79	50-130
4-Nitroaniline	50	0	52	104	14-136
4,6-Dinitro-2-methylphenol	50	0	51	102	47-107
N-Nitrosodiphenylamine	50	0	40	79	27-135
4-Bromophenyl-phenylether	50	0	43	86	50-142
Hexachlorobenzene	50	0	47	94	56-154
Atrazine	50	0	56	113	40-140
Pentachlorophenol	50	0	53	106	12-124
Phenanthrene	50	0	48	95	57-135
Anthracene	50	0	48	97	61-135
Carbazole	50	0	49	97	10-135
Di-n-butyl phthalate	50	0	49	98	44-144
Fluoranthene	50	0	49	99	61-135
Pyrene	50	0	54	108	58-136
Butyl benzyl phthalate	50	0	53	107	49-135
3,3'-Dichlorobenzidine	50	0	54	107	20-132
Benzo(a)anthracene	50	0	50	100	56-136
Chrysene	50	0	55	110	38-170
Bis(2-ethylhexyl)phthalate	50	0	52	105	33-193
Di-n-octyl phthalate	50	0	53	105	45-155
Benzo(b)fluoranthene	50	0	48	95	43-147
Benzo(k)fluoranthene	50	0	54	108	53-159
Benzo(a)pyrene	50	0	53	106	47-141
Indeno(1,2,3-cd)pyrene	50	0	54	107	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

AECOM064 B5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34277 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/17/09 11:49 11/23/09 16:57

Dibenzo(a,h)anthracene	50	0	52	103	15-185
Benzo(g,h,i)perylene	50	0	52	105	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 65 outside limits

COMMENTS:

AECOM064 B6

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34334 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/21/09 22:30 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	28	56*	60-140
Benzaldehyde	50	0	180	364*	40-140
Phenol	50	0	17	35	25-131
Bis(2-chloroethyl)ether	50	0	34	67	39-111
2-Chlorophenol	50	0	33	65	48-116
2-Methylphenol	50	0	31	63	41-131
2,2'-oxybis(1-chloropropane)	50	0	33	66	28-146
Acetophenone	50	0	36	71	60-140
N-Nitroso-di-n-propylamine	50	0	41	82	40-124
Hexachloroethane	50	0	24	48	41-119
Nitrobenzene	50	0	35	70	48-126
Isophorone	50	0	39	77	33-131
2-Nitrophenol	50	0	38	76	41-121
2,4-Dimethylphenol	50	0	35	70	39-135
Bis(2-chloroethoxy)methane	50	0	30	59	20-148
2,4-Dichlorophenol	50	0	37	74	46-130
Naphthalene	50	0	32	63	47-117
4-Chloroaniline	50	0	36	72	25-133
Hexachlorobutadiene	50	0	22	45	11-135
Caprolactam	50	0	16	31*	40-140
4-Chloro-3-methylphenol	50	0	40	79	45-135
2-Methylnaphthalene	50	0	33	67	60-140
Hexachlorocyclopentadiene	50	0	40	80	13-119
2,4,6-Trichlorophenol	50	0	42	84	53-131
2,4,5-Trichlorophenol	50	0	41	83	48-132
1,1'-Biphenyl	50	0	34	69	40-140
2-Chloronaphthalene	50	0	37	74	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	47	94	10-162
2,6-Dinitrotoluene	50	0	47	95	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS:

AECOM064 B7

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34334 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/21/09 22:30 11/23/09 16:57

Acenaphthylene	50	0	38	75	61-135
3-Nitroaniline	50	0	47	95	11-167
Acenaphthene	50	0	38	76	36-132
2,4-Dinitrophenol	50	0	56	113*	11-101
4-Nitrophenol	50	0	16	33	22-156
Dibenzofuran	50	0	39	77	24-156
2,4-Dinitrotoluene	50	0	49	98	48-134
Diethylphthalate	50	0	44	88	24-156
Fluorene	50	0	40	79	55-129
4-Chlorophenyl-phenylether	50	0	36	73	50-130
4-Nitroaniline	50	0	47	93	14-136
4,6-Dinitro-2-methylphenol	50	0	51	102	47-107
N-Nitrosodiphenylamine	50	0	37	73	27-135
4-Bromophenyl-phenylether	50	0	42	84	50-142
Hexachlorobenzene	50	0	43	85	56-154
Atrazine	50	0	49	98	40-140
Pentachlorophenol	50	0	53	106	12-124
Phenanthrene	50	0	45	89	57-135
Anthracene	50	0	44	88	61-135
Carbazole	50	0	43	86	10-135
Di-n-butyl phthalate	50	0	46	92	44-144
Fluoranthene	50	0	45	90	61-135
Pyrene	50	0	48	96	58-136
Butyl benzyl phthalate	50	0	52	103	49-135
3,3'-Dichlorobenzidine	50	0	45	90	20-132
Benzo(a)anthracene	50	0	47	95	56-136
Chrysene	50	0	49	98	38-170
Bis(2-ethylhexyl)phthalate	50	0	49	99	33-193
Di-n-octyl phthalate	50	0	44	87	45-155
Benzo(b)fluoranthene	50	0	42	83	43-147
Benzo(k)fluoranthene	50	0	45	91	53-159
Benzo(a)pyrene	50	0	46	92	47-141
Indeno(1,2,3-cd)pyrene	50	0	46	91	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS:

AECOM064 B8

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34334 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/21/09 22:30 11/23/09 16:57

Dibenzo(a,h)anthracene	50	0	44	89	15-185
Benzo(g,h,i)perylene	50	0	45	90	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 65 outside limits

COMMENTS:

AECOM064 B9

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34371 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/22/09 14:30 11/23/09 16:57

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
3-Methylphenol/4-Methylphenol	50	0	28	56*	60-140
Benzaldehyde	50	0	230	458*	40-140
Phenol	50	0	18	37	25-131
Bis(2-chloroethyl)ether	50	0	35	69	39-111
2-Chlorophenol	50	0	36	72	48-116
2-Methylphenol	50	0	34	68	41-131
2,2'-oxybis(1-chloropropane)	50	0	34	67	28-146
Acetophenone	50	0	40	79	60-140
N-Nitroso-di-n-propylamine	50	0	42	85	40-124
Hexachloroethane	50	0	22	43	41-119
Nitrobenzene	50	0	40	79	48-126
Isophorone	50	0	42	83	33-131
2-Nitrophenol	50	0	39	79	41-121
2,4-Dimethylphenol	50	0	38	76	39-135
Bis(2-chloroethoxy)methane	50	0	32	64	20-148
2,4-Dichlorophenol	50	0	40	80	46-130
Naphthalene	50	0	32	64	47-117
4-Chloroaniline	50	0	40	79	25-133
Hexachlorobutadiene	50	0	23	47	11-135
Caprolactam	50	0	15	29*	40-140
4-Chloro-3-methylphenol	50	0	41	83	45-135
2-Methylnaphthalene	50	0	31	63	60-140
Hexachlorocyclopentadiene	50	0	34	69	13-119
2,4,6-Trichlorophenol	50	0	42	83	53-131
2,4,5-Trichlorophenol	50	0	43	85	48-132
1,1'-Biphenyl	50	0	34	68	40-140
2-Chloronaphthalene	50	0	28	56	47-123
2-Nitroaniline	50	0	46	92	41-131
Dimethylphthalate	50	0	46	92	10-162
2,6-Dinitrotoluene	50	0	45	89	47-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

AECOM064 B10

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34371 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/22/09 14:30 11/23/09 16:57

Acenaphthylene	50	0	34	69	61-135
3-Nitroaniline	50	0	48	96	11-167
Acenaphthene	50	0	35	70	36-132
2,4-Dinitrophenol	50	0	65	131*	11-101
4-Nitrophenol	50	0	23	45	22-156
Dibenzofuran	50	0	35	70	24-156
2,4-Dinitrotoluene	50	0	46	93	48-134
Diethylphthalate	50	0	44	89	24-156
Fluorene	50	0	37	74	55-129
4-Chlorophenyl-phenylether	50	0	33	65	50-130
4-Nitroaniline	50	0	50	99	14-136
4,6-Dinitro-2-methylphenol	50	0	54	108*	47-107
N-Nitrosodiphenylamine	50	0	35	71	27-135
4-Bromophenyl-phenylether	50	0	38	76	50-142
Hexachlorobenzene	50	0	41	82	56-154
Atrazine	50	0	51	102	40-140
Pentachlorophenol	50	0	54	108	12-124
Phenanthrene	50	0	41	83	57-135
Anthracene	50	0	43	85	61-135
Carbazole	50	0	45	90	10-135
Di-n-butyl phthalate	50	0	46	91	44-144
Fluoranthene	50	0	43	86	61-135
Pyrene	50	0	49	98	58-136
Butyl benzyl phthalate	50	0	49	98	49-135
3,3'-Dichlorobenzidine	50	0	50	99	20-132
Benzo(a)anthracene	50	0	46	92	56-136
Chrysene	50	0	49	97	38-170
Bis(2-ethylhexyl)phthalate	50	0	49	98	33-193
Di-n-octyl phthalate	50	0	45	90	45-155
Benzo(b)fluoranthene	50	0	46	92	43-147
Benzo(k)fluoranthene	50	0	47	95	53-159
Benzo(a)pyrene	50	0	47	95	47-141
Indeno(1,2,3-cd)pyrene	50	0	49	97	26-156

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

AECOM064 B11

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Sample ID LFB-34371 Level: (low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 11/23/09 14:22

Analysis Date: 12/22/09 14:30 11/23/09 16:57

Dibenzo(a,h)anthracene	50	0	48	97	15-185
Benzo(g,h,i)perylene	50	0	49	98	25-153

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 5 out of 65 outside limits

COMMENTS:

AECOM064 B12

Form 6

OLM COMPOUND LIST BY METHOD 8270 INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM064

Instrument ID: HP5972 Calibration Dates: 11/23/2009 11/23/2009

Heated Purge: (Y/N) N Calibration Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

LAB FILE ID: SSTD005= C50672.D SSTD010= C50671.D SSTD025= C50667.D SSTD040= C50670.D SSTD080= C50668.D

COMPOUND	Level 1	Level 2	Level 3	Level 4	Level 5						$\overline{RRF}$	% RSD	R^2	
3-Methylphenol/4-Methylphenol	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4		
Aniline	2.3299992	2.192548	2.1896844	2.0846719	1.9617151						2.152	6.4		
Benzidine	0.3378259	0.4196295	0.5230085	0.4582029	0.4644512						0.441	15.5		
Benzoic acid	0	0.1044604	0.1475046	0.2250032	0.2002993						0.169	31.9		
Benzyl alcohol	1.0142167	0.9647712	0.976626	0.8842058	0.8803784						0.944	6.3		
Pyridine	2.1754021	2.0439563	2.2721028	2.1678152	2.2781359						2.187	4.4		
Benzaldehyde	1.1553706	1.0258754	0.7930752	0.6422056	0.3573700						0.795	39.7		
N-Nitrosodimethylamine	1.0835667	1.0450546	1.2607889	1.2181572	1.3525146						1.192	10.7		
Phenol *	2.3342135	2.3221494	2.2970407	2.1718997	2.0352705						2.232	5.7	*	
Bis(2-chloroethyl)ether *	1.9777013	1.8753351	1.9013794	1.7990328	1.8585185						1.882	3.5	*	
2-Chlorophenol *	1.6999813	1.6604901	1.7302338	1.608709	1.582146						1.656	3.7	*	
2-Methylphenol *	1.4448801	1.3607795	1.4292368	1.3889543	1.4963673						1.424	3.7	*	
2,2'-oxybis(1-chloropropane)	3.0061615	2.7089224	2.6713647	2.542361	2.5540631						2.697	7.0		
Acetophenone	1.905524	1.9221494	1.9351539	1.8901884	1.8659748						1.904	1.4		
4-Methylphenol *	1.570777	1.5117331	1.3953772	1.0909427	1.1277740						1.339	16.4	*	
N-Nitroso-di-n-propylamine *	1.2926836	1.1923472	0.9885321	0.7692322	0.7084146						0.990	25.8	*	
Hexachloroethane *	0.7147849	0.6879480	0.7071837	0.5448292	0.5098027						0.633	15.4	*	
Nitrobenzene *	0.4225769	0.4218591	0.404346	0.3970329	0.3753863						0.404	4.8	*	
Isophorone *	0.8842647	0.8763021	0.8576811	0.8354437	1.2591485						0.943	18.9	*	
2-Nitrophenol *	0.2316633	0.2456960	0.2438852	0.2540493	0.2556100						0.246	3.9	*	
2,4-Dimethylphenol *	0.3664307	0.363812	0.3537482	0.3387329	0.3385024						0.352	3.8	*	
Bis(2-chloroethoxy)methane *	0.627744	0.6413451	0.612021	0.5761073	0.5469651						0.601	6.4	*	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/17/20 Time: 17:42

Lab File ID: A\C51408.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.395		4.2	
Benzaldehyde	0.795	0.201		-74.7	
Phenol	2.232	2.294	0.800	2.8	25.0
Bis(2-chloroethyl)ether	1.882	1.864	0.700	-1.0	25.0
2-Chlorophenol	1.656	1.468	0.800	-11.4	25.0
2-Methylphenol	1.424	1.388	0.700	-2.5	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.487		-7.8	
Acetophenone	1.904	1.754		-7.9	
N-Nitroso-di-n-propylamine	0.990	0.902	0.500	-8.9	25.0
Hexachloroethane	0.633	0.599	0.300	-5.4	25.0
Nitrobenzene	0.404	0.429	0.200	6.1	25.0
Isophorone	0.943	0.911	0.400	-3.3	25.0
2-Nitrophenol	0.246	0.251	0.100	2.0	25.0
2,4-Dimethylphenol	0.352	0.364	0.200	3.3	25.0
Bis(2-chloroethoxy)methane	0.601	0.682	0.300	13.5	25.0
2,4-Dichlorophenol	0.275	0.298	0.200	8.3	25.0
Naphthalene	1.036	1.008	0.700	-2.7	25.0
4-Chloroaniline	0.456	0.456		-0.1	
Hexachlorobutadiene	0.139	0.152		9.1	
Caprolactam	0.123	0.110		-10.4	
4-Chloro-3-methylphenol	0.288	0.295	0.200	2.4	25.0
2-Methylnaphthalene	0.643	0.653	0.400	1.5	25.0
Hexachlorocyclopentadiene	0.237	0.148		-37.7	
2,4,6-Trichlorophenol	0.394	0.358	0.200	-9.1	25.0
2,4,5-Trichlorophenol	0.390	0.378	0.200	-3.0	25.0
1,1'-Biphenyl	1.419	1.392		-1.9	
2-Chloronaphthalene	1.263	1.187	0.800	-6.0	25.0
2-Nitroaniline	0.443	0.410		-7.4	
Dimethylphthalate	1.348	1.332		-1.2	
2,6-Dinitrotoluene	0.349	0.349	0.200	0.1	25.0
Acenaphthylene	1.900	1.908	1.300	0.4	25.0
3-Nitroaniline	0.438	0.427		-2.6	
Acenaphthene	1.180	1.147	0.800	-2.8	25.0
2,4-Dinitrophenol	0.171	0.183		6.9	
4-Nitrophenol	0.199	0.178		-10.7	
Dibenzofuran	1.581	1.520	0.800	-3.9	25.0
2,4-Dinitrotoluene	0.425	0.428	0.200	0.8	25.0
Diethylphthalate	1.450	1.387		-4.4	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B288

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/17/20 Time: 17:42

Lab File ID: A\C51408.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.197	0.900	-1.9	25.0
4-Chlorophenyl-phenylether	0.544	0.509	0.400	-6.4	25.0
4-Nitroaniline	0.448	0.432		-3.5	
4,6-Dinitro-2-methylphenol	0.166	0.191		14.9	
N-Nitrosodiphenylamine	0.728	0.764		5.0	
4-Bromophenyl-phenylether	0.210	0.245	0.100	16.8	25.0
Hexachlorobenzene	0.243	0.270	0.100	11.0	25.0
Atrazine	0.181	0.183		0.9	
Pentachlorophenol	0.138	0.148	0.050	6.9	25.0
Phenanthrene	1.120	1.111	0.700	-0.8	25.0
Anthracene	1.162	1.145	0.700	-1.4	25.0
Carbazole	1.151	1.188		3.2	
Di-n-butyl phthalate	1.789	1.816		1.5	
Fluoranthene	1.102	1.058	0.600	-4.0	25.0
Pyrene	1.495	1.245	0.600	-16.7	25.0
Butyl benzyl phthalate	0.990	0.872		-11.9	
3,3'-Dichlorobenzidine	0.318	0.364		14.4	
Benzo(a)anthracene	1.108	1.110	0.800	0.2	25.0
Chrysene	1.054	1.035	0.700	-1.8	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.197		-7.3	
Di-n-octyl phthalate	2.401	2.315		-3.6	
Benzo(b)fluoranthene	1.193	1.364	0.700	14.4	25.0
Benzo(k)fluoranthene	0.937	1.018	0.700	8.6	25.0
Benzo(a)pyrene	1.086	1.181	0.700	8.7	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.274	0.500	8.3	25.0
Dibenzo(a,h)anthracene	0.947	1.041	0.400	9.9	25.0
Benzo(g,h,i)perylene	1.042	1.085	0.500	4.1	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B289

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/17/20 Time: 17:42

Lab File ID: A\C51408.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2-Fluorophenol	1.598	1.445	0.600	-9.6	25.0
Nitrobenzene-d5	0.424	0.446	0.200	5.1	25.0
Phenol-d5	1.798	1.816	0.800	1.0	25.0
2,4,6-Tribromophenol	0.198	0.215		8.5	
2-Fluorobiphenyl	1.290	1.166	0.700	-9.6	25.0
4-Terphenyl-d14	0.841	0.829	0.500	-1.4	25.0
2-Chlorophenol-d4	1.696	1.518	0.800	-10.5	25.0
1,2-Dichlorobenzene-d4	0.974	0.899	0.400	-7.7	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B290

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/21/20 Time: 17:55

Lab File ID: A\C51460.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.381		3.1	
Benzaldehyde	0.795	0.133		-83.3	
Phenol	2.232	2.018	0.800	-9.6	25.0
Bis(2-chloroethyl)ether	1.882	1.615	0.700	-14.2	25.0
2-Chlorophenol	1.656	1.604	0.800	-3.2	25.0
2-Methylphenol	1.424	1.392	0.700	-2.3	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.651		-1.7	
Acetophenone	1.904	1.694		-11.0	
N-Nitroso-di-n-propylamine	0.990	0.666	0.500	-32.7	25.0
Hexachloroethane	0.633	0.615	0.300	-2.8	25.0
Nitrobenzene	0.404	0.327	0.200	-19.1	25.0
Isophorone	0.943	0.703	0.400	-25.4	25.0
2-Nitrophenol	0.246	0.246	0.100	-0.1	25.0
2,4-Dimethylphenol	0.352	0.379	0.200	7.6	25.0
Bis(2-chloroethoxy)methane	0.601	0.584	0.300	-2.8	25.0
2,4-Dichlorophenol	0.275	0.296	0.200	7.5	25.0
Naphthalene	1.036	1.115	0.700	7.7	25.0
4-Chloroaniline	0.456	0.517		13.3	
Hexachlorobutadiene	0.139	0.187		34.2	
Caprolactam	0.123	0.115		-6.3	
4-Chloro-3-methylphenol	0.288	0.315	0.200	9.3	25.0
2-Methylnaphthalene	0.643	0.649	0.400	0.9	25.0
Hexachlorocyclopentadiene	0.237	0.164		-30.9	
2,4,6-Trichlorophenol	0.394	0.413	0.200	4.9	25.0
2,4,5-Trichlorophenol	0.390	0.446	0.200	14.4	25.0
1,1'-Biphenyl	1.419	1.416		-0.2	
2-Chloronaphthalene	1.263	1.098	0.800	-13.1	25.0
2-Nitroaniline	0.443	0.325		-26.6	
Dimethylphthalate	1.348	1.336		-0.9	
2,6-Dinitrotoluene	0.349	0.362	0.200	3.8	25.0
Acenaphthylene	1.900	1.928	1.300	1.5	25.0
3-Nitroaniline	0.438	0.430		-1.9	
Acenaphthene	1.180	1.158	0.800	-1.9	25.0
2,4-Dinitrophenol	0.171	0.191		11.6	
4-Nitrophenol	0.199	0.173		-13.2	
Dibenzofuran	1.581	1.588	0.800	0.4	25.0
2,4-Dinitrotoluene	0.425	0.455	0.200	7.1	25.0
Diethylphthalate	1.450	1.403		-3.2	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B299

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/21/20 Time: 17:55

Lab File ID: A\C51460.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.259	0.900	3.2	25.0
4-Chlorophenyl-phenylether	0.544	0.613	0.400	12.7	25.0
4-Nitroaniline	0.448	0.401		-10.4	
4,6-Dinitro-2-methylphenol	0.166	0.174		4.7	
N-Nitrosodiphenylamine	0.728	0.676		-7.1	
4-Bromophenyl-phenylether	0.210	0.225	0.100	7.2	25.0
Hexachlorobenzene	0.243	0.230	0.100	-5.4	25.0
Atrazine	0.181	0.189		4.2	
Pentachlorophenol	0.138	0.139	0.050	0.4	25.0
Phenanthrene	1.120	1.037	0.700	-7.4	25.0
Anthracene	1.162	1.114	0.700	-4.1	25.0
Carbazole	1.151	1.053		-8.5	
Di-n-butyl phthalate	1.789	1.588		-11.2	
Fluoranthene	1.102	1.078	0.600	-2.2	25.0
Pyrene	1.495	1.355	0.600	-9.4	25.0
Butyl benzyl phthalate	0.990	0.815		-17.6	
3,3'-Dichlorobenzidine	0.318	0.365		14.8	
Benzo(a)anthracene	1.108	1.172	0.800	5.8	25.0
Chrysene	1.054	1.099	0.700	4.3	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.090		-15.5	
Di-n-octyl phthalate	2.401	2.283		-4.9	
Benzo(b)fluoranthene	1.193	1.412	0.700	18.4	25.0
Benzo(k)fluoranthene	0.937	1.044	0.700	11.4	25.0
Benzo(a)pyrene	1.086	1.210	0.700	11.4	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.270	0.500	7.9	25.0
Dibenzo(a,h)anthracene	0.947	1.008	0.400	6.4	25.0
Benzo(g,h,i)perylene	1.042	1.091	0.500	4.7	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B300

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/21/20 Time: 17:55

Lab File ID: A\C51460.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2-Fluorophenol	1.598	1.536	0.600	-3.9	25.0
Nitrobenzene-d5	0.424	0.347	0.200	-18.2	25.0
Phenol-d5	1.798	1.827	0.800	1.6	25.0
2,4,6-Tribromophenol	0.198	0.203		2.4	
2-Fluorobiphenyl	1.290	1.281	0.700	-0.7	25.0
4-Terphenyl-d14	0.841	0.843	0.500	0.3	25.0
2-Chlorophenol-d4	1.696	1.603	0.800	-5.5	25.0
1,2-Dichlorobenzene-d4	0.974	0.877	0.400	-10.0	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B301

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/22/20 Time: 10:59

Lab File ID: A\C51482.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.414		5.6	
Benzaldehyde	0.795	0.131		-83.5	
Phenol	2.232	2.040	0.800	-8.6	25.0
Bis(2-chloroethyl)ether	1.882	1.624	0.700	-13.7	25.0
2-Chlorophenol	1.656	1.634	0.800	-1.3	25.0
2-Methylphenol	1.424	1.423	0.700	-0.1	25.0
2,2'-oxybis(1-chloropropane)	2.697	2.754		2.1	
Acetophenone	1.904	1.714		-10.0	
N-Nitroso-di-n-propylamine	0.990	0.675	0.500	-31.8	25.0
Hexachloroethane	0.633	0.610	0.300	-3.6	25.0
Nitrobenzene	0.404	0.299	0.200	-26.0	25.0
Isophorone	0.943	0.673	0.400	-28.6	25.0
2-Nitrophenol	0.246	0.256	0.100	4.0	25.0
2,4-Dimethylphenol	0.352	0.359	0.200	1.9	25.0
Bis(2-chloroethoxy)methane	0.601	0.562	0.300	-6.5	25.0
2,4-Dichlorophenol	0.275	0.292	0.200	6.1	25.0
Naphthalene	1.036	1.077	0.700	4.0	25.0
4-Chloroaniline	0.456	0.497		8.9	
Hexachlorobutadiene	0.139	0.175		25.6	
Caprolactam	0.123	0.119		-3.1	
4-Chloro-3-methylphenol	0.288	0.306	0.200	6.2	25.0
2-Methylnaphthalene	0.643	0.645	0.400	0.3	25.0
Hexachlorocyclopentadiene	0.237	0.171		-28.0	
2,4,6-Trichlorophenol	0.394	0.420	0.200	6.7	25.0
2,4,5-Trichlorophenol	0.390	0.435	0.200	11.6	25.0
1,1'-Biphenyl	1.419	1.399		-1.4	
2-Chloronaphthalene	1.263	1.312	0.800	3.9	25.0
2-Nitroaniline	0.443	0.315		-28.8	
Dimethylphthalate	1.348	1.370		1.7	
2,6-Dinitrotoluene	0.349	0.365	0.200	4.7	25.0
Acenaphthylene	1.900	1.960	1.300	3.1	25.0
3-Nitroaniline	0.438	0.425		-3.0	
Acenaphthene	1.180	1.171	0.800	-0.8	25.0
2,4-Dinitrophenol	0.171	0.151		-11.8	
4-Nitrophenol	0.199	0.151		-24.3	
Dibenzofuran	1.581	1.639	0.800	3.7	25.0
2,4-Dinitrotoluene	0.425	0.468	0.200	10.2	25.0
Diethylphthalate	1.450	1.409		-2.8	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B309

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/22/20 Time: 10:59

Lab File ID: A\C51482.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.247	0.900	2.2	25.0
4-Chlorophenyl-phenylether	0.544	0.608	0.400	11.8	25.0
4-Nitroaniline	0.448	0.386		-13.8	
4,6-Dinitro-2-methylphenol	0.166	0.151		-9.1	
N-Nitrosodiphenylamine	0.728	0.679		-6.7	
4-Bromophenyl-phenylether	0.210	0.225	0.100	7.2	25.0
Hexachlorobenzene	0.243	0.228	0.100	-6.2	25.0
Atrazine	0.181	0.184		1.4	
Pentachlorophenol	0.138	0.131	0.050	-5.4	25.0
Phenanthrene	1.120	1.054	0.700	-5.9	25.0
Anthracene	1.162	1.090	0.700	-6.2	25.0
Carbazole	1.151	1.025		-10.9	
Di-n-butyl phthalate	1.789	1.549		-13.4	
Fluoranthene	1.102	1.074	0.600	-2.5	25.0
Pyrene	1.495	1.321	0.600	-11.7	25.0
Butyl benzyl phthalate	0.990	0.809		-18.3	
3,3'-Dichlorobenzidine	0.318	0.333		4.7	
Benzo(a)anthracene	1.108	1.191	0.800	7.5	25.0
Chrysene	1.054	1.101	0.700	4.5	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.084		-16.0	
Di-n-octyl phthalate	2.401	2.275		-5.3	
Benzo(b)fluoranthene	1.193	1.481	0.700	24.2	25.0
Benzo(k)fluoranthene	0.937	0.913	0.700	-2.6	25.0
Benzo(a)pyrene	1.086	1.186	0.700	9.2	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.213	0.500	3.1	25.0
Dibenzo(a,h)anthracene	0.947	0.964	0.400	1.8	25.0
Benzo(g,h,i)perylene	1.042	1.039	0.500	-0.3	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B310

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/22/20 Time: 10:59

Lab File ID: A\C51482.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
2-Fluorophenol	1.598	1.599	0.600	0.0	25.0
Nitrobenzene-d5	0.424	0.329	0.200	-22.4	25.0
Phenol-d5	1.798	1.826	0.800	1.6	25.0
2,4,6-Tribromophenol	0.198	0.187		-5.6	
2-Fluorobiphenyl	1.290	1.297	0.700	0.5	25.0
4-Terphenyl-d14	0.841	0.836	0.500	-0.6	25.0
2-Chlorophenol-d4	1.696	1.659	0.800	-2.2	25.0
1,2-Dichlorobenzene-d4	0.974	0.931	0.400	-4.5	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B311

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/23/20 Time: 15:16

Lab File ID: A\C51505.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Methylphenol/4-Methylphenol	1.339	1.551		15.8	
Benzaldehyde	0.795	0.148		-81.4	
Phenol	2.232	2.253	0.800	0.9	25.0
Bis(2-chloroethyl)ether	1.882	1.977	0.700	5.0	25.0
2-Chlorophenol	1.656	1.584	0.800	-4.4	25.0
2-Methylphenol	1.424	1.450	0.700	1.8	25.0
2,2'-oxybis(1-chloropropane)	2.697	3.437		27.5	
Acetophenone	1.904	1.710		-10.2	
N-Nitroso-di-n-propylamine	0.990	1.089	0.500	10.0	25.0
Hexachloroethane	0.633	0.745	0.300	17.7	25.0
Nitrobenzene	0.404	0.381	0.200	-5.7	25.0
Isophorone	0.943	0.741	0.400	-21.4	25.0
2-Nitrophenol	0.246	0.239	0.100	-2.9	25.0
2,4-Dimethylphenol	0.352	0.343	0.200	-2.6	25.0
Bis(2-chloroethoxy)methane	0.601	0.662	0.300	10.2	25.0
2,4-Dichlorophenol	0.275	0.259	0.200	-5.9	25.0
Naphthalene	1.036	1.092	0.700	5.4	25.0
4-Chloroaniline	0.456	0.532		16.6	
Hexachlorobutadiene	0.139	0.135		-3.1	
Caprolactam	0.123	0.119		-3.1	
4-Chloro-3-methylphenol	0.288	0.277	0.200	-3.9	25.0
2-Methylnaphthalene	0.643	0.605	0.400	-5.9	25.0
Hexachlorocyclopentadiene	0.237	0.129		-45.7	
2,4,6-Trichlorophenol	0.394	0.365	0.200	-7.3	25.0
2,4,5-Trichlorophenol	0.390	0.392	0.200	0.6	25.0
1,1'-Biphenyl	1.419	1.465		3.2	
2-Chloronaphthalene	1.263	1.140	0.800	-9.7	25.0
2-Nitroaniline	0.443	0.465		5.0	
Dimethylphthalate	1.348	1.387		2.9	
2,6-Dinitrotoluene	0.349	0.361	0.200	3.6	25.0
Acenaphthylene	1.900	2.154	1.300	13.3	25.0
3-Nitroaniline	0.438	0.465		6.1	
Acenaphthene	1.180	1.225	0.800	3.8	25.0
2,4-Dinitrophenol	0.171	0.196		14.5	
4-Nitrophenol	0.199	0.158		-20.7	
Dibenzofuran	1.581	1.657	0.800	4.8	25.0
2,4-Dinitrotoluene	0.425	0.445	0.200	4.8	25.0
Diethylphthalate	1.450	1.576		8.7	

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B321

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/23/20 Time: 15:16

Lab File ID: A\C51505.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Fluorene	1.220	1.226	0.900	0.5	25.0
4-Chlorophenyl-phenylether	0.544	0.577	0.400	6.1	25.0
4-Nitroaniline	0.448	0.395		-11.8	
4,6-Dinitro-2-methylphenol	0.166	0.161		-3.1	
N-Nitrosodiphenylamine	0.728	0.707		-2.9	
4-Bromophenyl-phenylether	0.210	0.199	0.100	-5.2	25.0
Hexachlorobenzene	0.243	0.234	0.100	-3.8	25.0
Atrazine	0.181	0.151		-16.8	
Pentachlorophenol	0.138	0.111	0.050	-19.8	25.0
Phenanthrene	1.120	1.100	0.700	-1.8	25.0
Anthracene	1.162	1.080	0.700	-7.0	25.0
Carbazole	1.151	1.023		-11.1	
Di-n-butyl phthalate	1.789	1.818		1.6	
Fluoranthene	1.102	1.038	0.600	-5.8	25.0
Pyrene	1.495	1.515	0.600	1.3	25.0
Butyl benzyl phthalate	0.990	1.078		8.9	
3,3'-Dichlorobenzidine	0.318	0.325		2.2	
Benzo(a)anthracene	1.108	1.094	0.800	-1.2	25.0
Chrysene	1.054	1.086	0.700	3.0	25.0
Bis(2-ethylhexyl)phthalate	1.291	1.446		12.0	
Di-n-octyl phthalate	2.401	3.111		29.6	
Benzo(b)fluoranthene	1.193	1.449	0.700	21.5	25.0
Benzo(k)fluoranthene	0.937	1.086	0.700	15.9	25.0
Benzo(a)pyrene	1.086	1.188	0.700	9.4	25.0
Indeno(1,2,3-cd)pyrene	1.177	1.254	0.500	6.6	25.0
Dibenzo(a,h)anthracene	0.947	0.987	0.400	4.2	25.0
Benzo(g,h,i)perylene	1.042	1.080	0.500	3.6	25.0

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B322

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

Instrument ID: HP5972 Calibration Date: 12/23/20 Time: 15:16

Lab File ID: A\C51505.D Init. Calib. Date(s): 11/23/09 11/23/09

EPA Sample No.(SSTD050##): SSTD025 Init. Calib. Times: 14:22 16:57

GC Column: R-5SILMS ID: .25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2-Fluorophenol	1.598	1.488	0.600	-6.9	25.0
Nitrobenzene-d5	0.424	0.350	0.200	-17.5	25.0
Phenol-d5	1.798	1.885	0.800	4.8	25.0
2,4,6-Tribromophenol	0.198	0.192		-3.1	
2-Fluorobiphenyl	1.290	1.309	0.700	1.5	25.0
4-Terphenyl-d14	0.841	0.788	0.500	-6.3	25.0
2-Chlorophenol-d4	1.696	1.732	0.800	2.1	25.0
1,2-Dichlorobenzene-d4	0.974	0.927	0.400	-4.9	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

AECOM064 B323

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM064

	EPA SAMPLE NO.	S1 2FP#	S2 NBZ#	S3 PD5 #	S4 TBP#	S5 FBP #	S6 TPH #	S7 2CP #	S8 DCB #	TOT OUT
01	MB-34277	43	66	31	91	65	85	65	53	0
02	LFB-34277	49	80	35	98	82	93	74	69	0
03	MW6B121409	40	74	38	95	78	80	64	63	0
04	MB-34334	52	79	36	93	77	85	79	64	0
05	LFB-34334	44	70	30	88	74	90	67	63	0
06	MW4B121509	50	87	24	87	75	69	57	67	0
07	MW4C121509	48	139 *	32	94	80	79	75	77	1
08	MW4C121509D	48	118 *	34	92	80	77	75	77	1
09	MW6A121509	60	91	41	109	96	92	95	94	0
10	MW7A121509	51	78	36	98	85	83	77	76	0
11	MW7B121509	44	258 *	34	84	77	75	72	44	1
12	MW4B121509DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
13	MW4C121509DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
14	MW4C121509DDL	46	85	36	98	97	98	79	82	0
15	MW7B121509DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
16	MB-34371	41	73	29	89	61	79	68	49	0
17	LFB-34371	49	77	33	93	75	88	73	67	0
18	PW1121609	35	159 *	24	91	67	77	48	57	1
19	MW2A121609	46	77	35	98	73	79	71	69	0
20	MW2B121609	37	139 *	29	98	69	75	59	50	1
21	MW5A121609	35	73	28	79	56	78	59	43	0
22	MW5B121609	43	243 *	27	94	74	73	47	58	1
23	PW1121609DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
24	MW2B121609DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
25	MW5B121609DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0
26	MW5A121609DL	43	73	30	81	70	90	69	64	0

			QC LIMITS	
S 1	2FP	= 2-Fluorophenol	(21-110)	
S 2	NBZ	= Nitrobenzene-d5	(35-114)	
S 3	PD5	= Phenol-d5	(10-110)	
S 4	TBP	= 2,4,6-Tribromophenol	(10-123)	
S 5	FBP	= 2-Fluorobiphenyl	(43-116)	
S 6	TPH	= 4-Terphenyl-d14	(33-141)	
S 7	2CP	= 2-Chlorophenol-d4	(33-110)	(advisory)
S 8	DCB	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

AECOM064 B3

H2M LABS, INC.

23743

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT: AECOM

H2M SDG NO: AECOM063/064

PROJECT NAME/NUMBER: Equity / National Grid 60137362

SAMPLERS: (signature)/Client: /AECOM

DELIVERABLES: As per PO

TURNAROUND TIME: Standard

NOTES:

Project Contact:

Phone Number:

PO/Quote #

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	TCL VOCs	TCL SVOCs	TAL Metals	Tot CN	PCB/TCL Pest+Herb	VOCs	SVOCs			LAB I.D. NO.	REMARKS:
				Sample Container Description →											
				ANALYSIS REQUESTED	Organic								Inorg.		
					VOA	BNA	Pest/PCB						Metal		
12/14/09	1135	GW	MW1C121409		X	X	X	X	X					0913341-003	
12/14/09	1130	GW	MW1B121409		X	X	X	X	X					-002	
12/14/09	1320	GW	MW1A121409		X	X	X	X	X					-001	
12/14/09	1438	GW	MW6B121409				X	X		X	X			0913342-001	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/14/09	1516	S. Weed	12-14-09	15.16
S. Weed	12-14-09	16.52		12/14/09	16:52
	Date	Time		Date	Time
	Date	Time		Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped ___ or Hand Delivered X Airbill# ___
2. Ambient or chilled. Temp 10°-11° on ICE
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL

YELLOW COPY - CLIENT

PINK COPY - LABORATORY

AECOM064 A12

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

MW2A121609

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	49.98	B	88.30	U	100.0		P
Antimony	5.98	B	10.70	U	100.0		P
Arsenic	2.30	U	11.50	U			P
Barium	52.95	B	56.45	B	6.6		P
Beryllium	0.26	U	1.30	U			P
Cadmium	0.34	U	1.70	U			P
Calcium	566459.47		591264.05		4.4		P
Chromium	0.81	B	2.20	U	100.0		P
Cobalt	3.48	B	5.80	U	100.0		P
Copper	16.63	B	16.55	B	0.5		P
Iron	17390.80		17701.65		1.8		P
Lead	10.53		11.43	B	8.5		P
Magnesium	56930.52		59332.35		4.2		P
Manganese	761.05		806.95		6.0		P
Nickel	17.96	B	17.15	B	4.5		P
Potassium	79893.85		65849.30		17.6	E	P
Selenium	2.50	U	12.40	U			P
Silver	0.83	U	4.10	U			P
Sodium	151254.39		140796.65		6.9		P
Thallium	3.20	U	16.00	U			P
Vanadium	2.21	B	7.00	U	100.0		P
Zinc	181.13		198.85		9.8		P

AECOM064 M58

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

AA CRDL Standard Source: MV Labs/High Purity

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Cyanide	10.0	13.90	139.0					
Cyanide	10.0	11.37	113.7					

#2
#1

1/9/10

AECOM064 M41

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: AECOM064

Instrument ID Number: SPEC20D+ CN Method: CA

Start Date: 12/23/2009 End Date: 12/23/2009

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1510																								X
S10	1.00	1511																								X
S50	1.00	1512																								X
S100	1.00	1513																								X
S200	1.00	1514																								X
ICV	1.00	1515																								X
ICB	1.00	1516																								X
CRI	1.00	1517	139%																							X
CCV	1.00	1518																								X
CCB	1.00	1519																								X
PBW	1.00	1520																								X
ZZZZZZ	1.00	1521																								
ZZZZZZ	1.00	1522																								
ZZZZZZ	1.00	1523																								
ZZZZZZ	1.00	1524																								
MW2A121609	1.00	1525	109 mg/L																							X
MW2B121609	1.00	1526	11.4 mg/L																							X
MW5A121609	1.00	1527	64.8																							X
MW5B121609	1.00	1528	202																							X
PW1121609	1.00	1529	10.04																							X
CCV	1.00	1530																								X
CCB	1.00	1531																								X
PW1121609S	1.00	1532																								X
PW1121609D	1.00	1533																								X
CRI	1.00	1534	103.7%																							X
CCV	1.00	1535																								X
CCB	1.00	1536																								X

AECOM064 M81

H2M LABS, INC.

CALIBRATION DATA					CORR. COEFF:	0.9995
TIME DEVELOPED	1510	1511	1512	1513	1514	
STANDARD	0	10	50	100	200	
ABS.	0.000	0.012	0.074	0.147	0.314	
CONC. (ug/L)	<10	10.1	49.5	95.9	202.00	
MLS. DIST	50	50	—	50	—	

AECOM Ø64

CN, UG/L = $\frac{A \times D \times F}{B}$

CN, MG/KG = $\frac{A \times D \times F}{W \times E} \times 100$

Analyst: [signature]

Date: 12.23.09

[signature] 12/23/09

#122 P 116

CLIENT ID#	H2M LAB#	B (L) SAMPLE DISTILLED	F (L) OF ABS SOLUTION	W GRAMS USED	ABS	A UG/L	D DF	CN UG/L	MG/KG	E %TS	TIME DEV.	NOTES CALCULATIONS
ICV - 34400		0.05	0.05		0.116	76.2		76.2			15 15	TV: 75 Rec 101.6
ICB		—			0.000	<10		<10			16	
CRI		0.05			0.014	11.4		11.4			17	TV: 10 113.7 %
CCV1		0.05			0.134	87.6		87.6			18	TV: 100 87.6 %
CCB1		—			0.000	<10		<10			19	
MB- 34400		0.05			0.000	<10		<10			20	
	IDC1				0.160	104.2		104.2			21	TV: 100 104.2 %
	2				0.149	97.2		97.2			22	TV: 100 97.2 %
	3				0.142	92.7		92.7			23	TV: 100 92.7 %
	4				0.153	99.7		99.7			24	TV: 100 99.7 %
MW2A 121609	0913486-001D				0.168	109.2		109.2			25	
2B	002D				0.014	11.4		11.4			26	
5A	003D				0.098	64.8		64.8			27	
5B	004D				0.314	202.0		202.1			28	
PW1121609	005D				0.009	~~8.2~~ <10		<10			29	
CCV2				12/23/09 @ T	~~0.123~~	0.134	87.6 ug/L	87.6			30	TV: 100 87.6 %
CCB2		—			0.000	<10		<10			31	
PW1121609	0913486-005DMS	0.05			0.161	104.8		104.8			32	TV: 100 96.6 %
	005DDup				0.009	<10		<10			33	RD= 0
CRI		0.05	0.05	@ 12/23/09 T	~~0.134~~	0.018	13.9	13.9			15 34	TV: 10 139.1 %
CCV3		0.05	0.05		0.134	87.6		87.6			35	TV: 100 87.6 %
CCB3					0.000	<10		<10			36	

AECOM064 M281

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
December 2009

Data Usability Summary Report
National Grid/Equity Former MGP Site
H2M SDG: AECOM061
Final

AECOM Environment

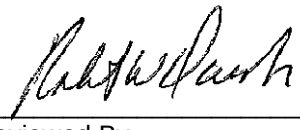
Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
December 2009

Data Usability Summary Report
National Grid/Equity Former MGP Site
H2M SDG: AECOM061
Final



Prepared By
Gregory Malzone, Project Chemist
AECOM
Four Gateway Center
444 Liberty Avenue, Suite 700
Pittsburgh, PA 15222-1220



Reviewed By
Robert Davis, Data Validator/Database Technician
AECOM
1360 Peachtree Street NE, Suite 500
Atlanta, GA 30309

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Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM - Pittsburgh on one data report for the air and soil vapor samples collected at the Equity Former MGP Site in Brooklyn, NY. The samples were analyzed by H2M Labs, Inc., 575 Broad Hollow Road, Melville, NY 10281 for volatile organic compounds using USEPA Compendium Method TO-15 and NJDEP – SRWM Low Level USEPA TO-15 Method (NJDEP-LL-TO15-3/2007).

The following samples were collected on November 17, 2009 and submitted to H2M on November 18, 2009. The samples were assigned to H2M sample delivery group (SDG) AECOM061.

Table 1
Sample Submittals – Equity SVI

Field ID	H2M ID	Matrix	Date Sampled	Canister ID	COC Number	H2M SDG
AMB-1	0912538-001	Ambient Air	11/17/2009	3393	0283	AECOM061
IA-1	0912538-002	Indoor Air	11/17/2009	3413	0283	AECOM061
IA-2	0912538-003	Indoor Air	11/17/2009	3421	0283	AECOM061
SV-1	0912538-004	Soil Vapor	11/17/2009	3394	0283	AECOM061
SV-2	0912538-005	Soil Vapor	11/17/2009	3418	0283	AECOM061

The validation was based on "USEPA *Compendium Method TO-15, Determination of VOCs in Air Collected in Specially Prepared-Canisters and Analyzed by Gas Chromatography / Mass Spectrometry (GC/MS)"*, January 1999 and NJDEP – SRWM Low Level USEPA TO-15 Method (NJDEP-LL-TO15-3/2007). The data qualifiers were applied according to the general guidelines in the New Jersey Department of Environmental Protection Standard Operating Procedures (SOPs) Revision No. 3, SOP No. BEMQA 5.A.13. "*Standard Operating Procedures for the Quality Assurance Data Validation of Analytical Deliverables- TCL- Organics (based on the USEPA SOW OLM04.2 with Revisions)*."

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air and soil vapor) with some qualifications. Several data points were qualified as estimates because of method and/or instrument bias. The results for sample SV-2 required revision to account for dilution. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable. The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

AECOM061

a. Blank Contamination (pp. V94-V96): Methylene chloride was detected in the method blank, VBLK113009, at a concentration of 0.25 ppbv (0.868 µg/m3). The methylene chloride results for samples AMB-1, IA-1, IA-2, SV-1, and SV-2 were greater than five times the blank level and the "B" flags were removed as unnecessary.

b. Calibrations (pp. V285-V287): The continuing calibration standard percent differences for 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, naphthalene, 2-methylnaphthalene were greater than the quality control limit of 30% on 11/30/09 at 11:32 on instrument HP5973I. Sensitivity increased with respect to the initial calibration average relative response factors. All samples were affected. The positive 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, naphthalene, 2-methylnaphthalene results were qualified "J," as estimated concentrations. The associated non-detect results did not require qualification in response to the high instrument bias.

c. Laboratory Control Sample Recoveries and RPDs (pp. V4-V6): The LCS (LFB113009) recovery for o-xylene was greater than the upper control limit. All samples were affected. The o-xylene results for samples AMB-1, IA-1, IA-2, SV-1, and SV-2 were positive and were qualified "J," as estimated concentrations, because of high method bias.

d. Report Revision Required (Sample SV-2): Sample SV-2 was analyzed at an initial 10-fold to bring the target compound concentrations into the calibration range and minimize matrix interference. The 10-fold dilution was not taken into account when the data were reported. The data summary report for sample SV-2 was revised with the correct results.

e. Dilutions: Sample IA-2 required analysis at a 10-fold dilution to bring the ethanol and isopentane concentrations into the calibration range. The results for both analytical runs were reported as required. The surrogate recoveries for the initial and diluted analyses were acceptable. No data qualifications were required.

   Sample SV-1 required analysis at a two-fold dilution to bring the naphthalene concentration into the calibration range. The results for both analytical runs were reported as required. The surrogate recoveries for the initial and diluted analyses were acceptable. No data qualifications were required.

   Sample SV-2 was analyzed at an initial 10-fold to bring the target compound concentrations into the calibration range and minimize matrix interference. The results for both analytical runs were reported as required. The surrogate recoveries for the diluted analysis were acceptable. No data qualifications were required.

.

2.0 Notes

The results for sample SV-2 required revision to account for the 10-fold dilution.

Positive volatile organic compound results less than the reporting limit (i.e., practical quantitation limit), but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. These “J” qualifiers were maintained in this data validation.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **0912538-001A**

Client Sample ID. : **AMB-1**

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:52:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	0.23	ppbv	J	1	0.943	µg/m³	11/30/2009 2:06 PM
2-Methylpentane	1.10	ppbv		1	3.88	µg/m³	11/30/2009 2:06 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	11/30/2009 2:06 PM
Isopentane	13.1	ppbv		1	38.7	µg/m³	11/30/2009 2:06 PM
Propylene	0.79	ppbv	J	1	1.36	µg/m³	11/30/2009 2:06 PM
Dichlorodifluoromethane	1.56	ppbv		1	7.71	µg/m³	11/30/2009 2:06 PM
Chloromethane	0.610	ppbv		1	1.26	µg/m³	11/30/2009 2:06 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	11/30/2009 2:06 PM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	11/30/2009 2:06 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	11/30/2009 2:06 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	11/30/2009 2:06 PM
Ethanol	35.0	ppbv		1	65.9	µg/m³	11/30/2009 2:06 PM
Isopropanol	5.43	ppbv		1	13.3	µg/m³	11/30/2009 2:06 PM
Methylene chloride	3.96	ppbv	B	1	13.8	µg/m³	11/30/2009 2:06 PM
Acetone	15.0	ppbv		1	35.6	µg/m³	11/30/2009 2:06 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	11/30/2009 2:06 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 2:06 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 2:06 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	11/30/2009 2:06 PM
Trichlorofluoromethane	1.11	ppbv		1	6.24	µg/m³	11/30/2009 2:06 PM
n-Hexane	1.24	ppbv		1	4.37	µg/m³	11/30/2009 2:06 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 2:06 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	11/30/2009 2:06 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 2:06 PM
Tetrahydrofuran	0.39	ppbv	J	1	1.15	µg/m³	11/30/2009 2:06 PM
Methyl ethyl ketone	1.98	ppbv		1	5.84	µg/m³	11/30/2009 2:06 PM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	11/30/2009 2:06 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.635	µg/m³	11/30/2009 2:06 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 2:06 PM
Cyclohexane	0.79	ppbv	J	1	2.72	µg/m³	11/30/2009 2:06 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	11/30/2009 2:06 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	11/30/2009 2:06 PM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	11/30/2009 2:06 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	11/30/2009 2:06 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 2:06 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S17

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-001A

Client Sample ID. : AMB-1

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:52:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,2,4-Trimethylpentane	< 0.800	ppbv		1	< 3.74	µg/m³	11/30/2009 2:06 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 2:06 PM
Trichloroethene	< 0.160	ppbv		1	< 0.860	µg/m³	11/30/2009 2:06 PM
Benzene	0.380	ppbv		1	1.21	µg/m³	11/30/2009 2:06 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	11/30/2009 2:06 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 2:06 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 2:06 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	11/30/2009 2:06 PM
n-Heptane	0.58	ppbv	J	1	2.38	µg/m³	11/30/2009 2:06 PM
Methyl isobutyl ketone	0.820	ppbv		1	3.36	µg/m³	11/30/2009 2:06 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 2:06 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 2:06 PM
Tetrachloroethene	0.360	ppbv		1	2.44	µg/m³	11/30/2009 2:06 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	11/30/2009 2:06 PM
Toluene	20.3	ppbv		1	76.5	µg/m³	11/30/2009 2:06 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	11/30/2009 2:06 PM
Ethylbenzene	0.920	ppbv		1	4.00	µg/m³	11/30/2009 2:06 PM
Styrene	0.710	ppbv		1	3.02	µg/m³	11/30/2009 2:06 PM
Xylenes (m&p)	3.12	ppbv		1	13.6	µg/m³	11/30/2009 2:06 PM
Xylenes (o)	1.05	ppbv	J	1	4.56	µg/m³	11/30/2009 2:06 PM
2-Chlorotoluene	< 0.160	ppbv		1	< 0.828	µg/m³	11/30/2009 2:06 PM
4-Ethyltoluene	0.49	ppbv	J	1	2.41	µg/m³	11/30/2009 2:06 PM
1,3,5-Trimethylbenzene	0.450	ppbv		1	2.21	µg/m³	11/30/2009 2:06 PM
1,2,4-Trimethylbenzene	1.56	ppbv		1	7.67	µg/m³	11/30/2009 2:06 PM
1,2,3-Trimethylbenzene	0.53	ppbv	J	1	2.61	µg/m³	11/30/2009 2:06 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 2:06 PM
1,4-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 2:06 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 2:06 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	11/30/2009 2:06 PM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	11/30/2009 2:06 PM
Indan	0.27	ppbv	J	1	1.31	µg/m³	11/30/2009 2:06 PM
Indene	0.22	ppbv	J	1	1.05	µg/m³	11/30/2009 2:06 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv		1	< 4.39	µg/m³	11/30/2009 2:06 PM
Naphthalene	0.57	ppbv	J	1	2.99	µg/m³	11/30/2009 2:06 PM
2-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	11/30/2009 2:06 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S18

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-001A

Client Sample ID. :AMB-1

Sample Information...
Type : Air

Origin:

Collected :11/17/2009 4:52:00 PM
Received :11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	11/30/2009 2:06 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S19

1F

EPA SAMPLE NO.

AMB-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-001A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6081.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Alkane:Straight-Chain (3.14)	3.14	3.40	J
2. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.01	3.20	JN
3.	Alkane:Branched (4.51)	4.51	3.80	J
4. 000124-38-9	Carbon dioxide	5.46	18.8	JN
5.	Alkane:Straight-Chain (5.81)	5.81	1.40	J
6.	Alkane:Straight-Chain (11.79)	11.79	1.30	J
7. 000123-86-4	Acetic acid, butyl ester	21.84	1.60	JN
8.	Alkane:Straight-Chain (24.22)	24.22	1.50	J
9.	Alkane+Alkene:~~Branched~~ (24.94)	24.94	1.10	J
10.	Pinene(isomer)	25.05	1.60	J
11.	Alkane:Straight-Chain (26.08)	26.08	2.90	J
12.	~~Alkane:Straight-Chain~~ (26.84) Unkn.	26.84	1.10	J
13.	Alkane:Branched (27.2)	27.20	1.20	J

Br.

MS 12/9/09

AECOM061 S20

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **0912538-002A**

Client Sample ID. : **IA-1**

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:55:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : **Original**
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	0.24	ppbv	J	1	0.984	µg/m³	11/30/2009 6:18 PM
2-Methylpentane	0.67	ppbv	J	1	2.36	µg/m³	11/30/2009 6:18 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	11/30/2009 6:18 PM
Isopentane	7.87	ppbv		1	23.2	µg/m³	11/30/2009 6:18 PM
Propylene	0.50	ppbv	J	1	0.861	µg/m³	11/30/2009 6:18 PM
Dichlorodifluoromethane	1.75	ppbv		1	8.65	µg/m³	11/30/2009 6:18 PM
Chloromethane	0.560	ppbv		1	1.16	µg/m³	11/30/2009 6:18 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	11/30/2009 6:18 PM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	11/30/2009 6:18 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	11/30/2009 6:18 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	11/30/2009 6:18 PM
Ethanol	36.3	ppbv		1	68.4	µg/m³	11/30/2009 6:18 PM
Isopropanol	5.36	ppbv		1	13.2	µg/m³	11/30/2009 6:18 PM
Methylene chloride	3.42	ppbv	B	1	11.9	µg/m³	11/30/2009 6:18 PM
Acetone	16.2	ppbv		1	38.5	µg/m³	11/30/2009 6:18 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	11/30/2009 6:18 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 6:18 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 6:18 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	11/30/2009 6:18 PM
Trichlorofluoromethane	0.870	ppbv		1	4.89	µg/m³	11/30/2009 6:18 PM
n-Hexane	0.810	ppbv		1	2.85	µg/m³	11/30/2009 6:18 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 6:18 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	11/30/2009 6:18 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 6:18 PM
Tetrahydrofuran	0.920	ppbv		1	2.71	µg/m³	11/30/2009 6:18 PM
Methyl ethyl ketone	2.69	ppbv		1	7.93	µg/m³	11/30/2009 6:18 PM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	11/30/2009 6:18 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.635	µg/m³	11/30/2009 6:18 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 6:18 PM
Cyclohexane	0.45	ppbv	J	1	1.55	µg/m³	11/30/2009 6:18 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	11/30/2009 6:18 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	11/30/2009 6:18 PM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	11/30/2009 6:18 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	11/30/2009 6:18 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 6:18 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S21

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-002A

Client Sample ID. : IA-1

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:55:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,2,4-Trimethylpentane	< 0.800	ppbv		1	< 3.74	µg/m³	11/30/2009 6:18 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 6:18 PM
Trichloroethene	0.260	ppbv		1	1.40	µg/m³	11/30/2009 6:18 PM
Benzene	0.600	ppbv		1	1.92	µg/m³	11/30/2009 6:18 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	11/30/2009 6:18 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 6:18 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 6:18 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	11/30/2009 6:18 PM
n-Heptane	0.62	ppbv	J	1	2.54	µg/m³	11/30/2009 6:18 PM
Methyl isobutyl ketone	0.930	ppbv		1	3.81	µg/m³	11/30/2009 6:18 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 6:18 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 6:18 PM
Tetrachloroethene	0.590	ppbv		1	4.00	µg/m³	11/30/2009 6:18 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	11/30/2009 6:18 PM
Toluene	28.4	ppbv		1	107	µg/m³	11/30/2009 6:18 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	11/30/2009 6:18 PM
Ethylbenzene	2.19	ppbv		1	9.51	µg/m³	11/30/2009 6:18 PM
Styrene	0.960	ppbv		1	4.09	µg/m³	11/30/2009 6:18 PM
Xylenes (m&p)	5.16	ppbv		1	22.4	µg/m³	11/30/2009 6:18 PM
Xylenes (o)	1.86	ppbv	J	1	8.08	µg/m³	11/30/2009 6:18 PM
2-Chlorotoluene	< 0.160	ppbv		1	< 0.828	µg/m³	11/30/2009 6:18 PM
4-Ethyltoluene	0.66	ppbv	J	1	3.24	µg/m³	11/30/2009 6:18 PM
1,3,5-Trimethylbenzene	0.380	ppbv		1	1.87	µg/m³	11/30/2009 6:18 PM
1,2,4-Trimethylbenzene	1.77	ppbv		1	8.70	µg/m³	11/30/2009 6:18 PM
1,2,3-Trimethylbenzene	0.65	ppbv	J	1	3.20	µg/m³	11/30/2009 6:18 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 6:18 PM
1,4-Dichlorobenzene	0.190	ppbv		1	1.14	µg/m³	11/30/2009 6:18 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 6:18 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	11/30/2009 6:18 PM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	11/30/2009 6:18 PM
Indan	0.49	ppbv	J	1	2.37	µg/m³	11/30/2009 6:18 PM
Indene	1.09	ppbv		1	5.18	µg/m³	11/30/2009 6:18 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv		1	< 4.39	µg/m³	11/30/2009 6:18 PM
Naphthalene	5.18	ppbv	J	1	27.2	µg/m³	11/30/2009 6:18 PM
2-Methylnaphthalene	0.17	ppbv	J	1	0.989	µg/m³	11/30/2009 6:18 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S22

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-002A

Client Sample ID. :IA-1

Collected : 11/17/2009 4:55:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Sample Information...
Type : Air

Origin:

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	0.20	ppbv	J	1	1.16	µg/m³	11/30/2009 6:18 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S23

1F

EPA SAMPLE NO.

IA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-002A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6086.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 5 CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000075-37-6	Ethane, 1,1-difluoro-	2.84	14.2	JN
2.	Alkane:Straight-Chain (3.13)	3.13	3.50	J
3. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.01	12.0	JN
4.	Alkane:Branched (4.5)	4.50	1.50	J
5. 000124-38-9	Carbon dioxide	5.45	23.7	JN
6.	Alkane:Straight-Chain (11.79)	11.79	1.30	J
7. 000123-86-4	Acetic acid, butyl ester	21.84	1.80	JN
8.	Alkane:Straight-Chain (24.22)	24.22	1.60	J
9.	Alkane+Alkene:~~Branched~~ (24.94)	24.94	1.10	J
10.	Pinene(isomer)	25.05	1.10	J
11.	Alkane:Straight-Chain (26.08)	26.08	3.00	J
12.	Unknown (26.84)	26.84	1.30	J
13.	Alkane:Branched (27.13)	27.13	1.10	J
14.	Alkane:Branched (27.19)	27.19	1.20	J
15.	Alkane:Straight-Chain (27.61)	27.61	2.30	J

12/9/09

AECOM061 S24

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-003A

Client Sample ID. : IA-2

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:50:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Report original (1x) analysis for all analytes except ethanol and isopentane. CAM 12/11/09

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	0.62	ppbv	J	1	2.54	µg/m³	11/30/2009 3:46 PM
2,3-Dimethylpentane	< 8.00	ppbv	D	10	< 32.8	µg/m³	11/30/2009 7:09 PM
2-Methylpentane	5.98	ppbv		1	21.1	µg/m³	11/30/2009 3:46 PM
2-Methylpentane	4.7	ppbv	JD	10	16.6	µg/m³	11/30/2009 7:09 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	11/30/2009 3:46 PM
Freon-114	< 1.60	ppbv	D	10	< 11.2	µg/m³	11/30/2009 7:09 PM
Isopentane	82.4	ppbv	E	1	243	µg/m³	11/30/2009 3:46 PM
Isopentane	68.7	ppbv	D	10	203	µg/m³	11/30/2009 7:09 PM
Propylene	1.08	ppbv		1	1.86	µg/m³	11/30/2009 3:46 PM
Propylene	< 8.00	ppbv	D	10	< 13.8	µg/m³	11/30/2009 7:09 PM
Dichlorodifluoromethane	0.580	ppbv		1	2.87	µg/m³	11/30/2009 3:46 PM
Dichlorodifluoromethane	< 1.60	ppbv	D	10	< 7.91	µg/m³	11/30/2009 7:09 PM
Chloromethane	0.480	ppbv		1	0.991	µg/m³	11/30/2009 3:46 PM
Chloromethane	< 1.60	ppbv	D	10	< 3.30	µg/m³	11/30/2009 7:09 PM
1,3-Butadiene	0.19	ppbv	J	1	0.420	µg/m³	11/30/2009 3:46 PM
1,3-Butadiene	< 8.00	ppbv	D	10	< 17.7	µg/m³	11/30/2009 7:09 PM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	11/30/2009 3:46 PM
Bromomethane	< 1.60	ppbv	D	10	< 6.21	µg/m³	11/30/2009 7:09 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	11/30/2009 3:46 PM
Vinyl chloride	< 1.60	ppbv	D	10	< 4.09	µg/m³	11/30/2009 7:09 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	11/30/2009 3:46 PM
Chloroethane	< 1.60	ppbv	D	10	< 4.22	µg/m³	11/30/2009 7:09 PM
Ethanol	160	ppbv	E	1	301	µg/m³	11/30/2009 3:46 PM
Ethanol	160	ppbv	D	10	301	µg/m³	11/30/2009 7:09 PM
Isopropanol	7.08	ppbv		1	17.4	µg/m³	11/30/2009 3:46 PM
Isopropanol	6.6	ppbv	JD	10	16.2	µg/m³	11/30/2009 7:09 PM
Methylene chloride	1.50	ppbv	B	1	5.21	µg/m³	11/30/2009 3:46 PM
Methylene chloride	5.10	ppbv	D	10	17.7	µg/m³	11/30/2009 7:09 PM
Acetone	7.72	ppbv		1	18.3	µg/m³	11/30/2009 3:46 PM
Acetone	7.2	ppbv	JD	10	17.1	µg/m³	11/30/2009 7:09 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	11/30/2009 3:46 PM
Carbon disulfide	< 8.00	ppbv	D	10	< 24.9	µg/m³	11/30/2009 7:09 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 3:46 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	11/30/2009 7:09 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 3:46 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S25

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **0912538-003A**

Client Sample ID. : **IA-2**

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:50:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : **Original**
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1-Dichloroethene	< 1.60	ppbv	D	10	< 6.34	µg/m³	11/30/2009 7:09 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	11/30/2009 3:46 PM
1,1-Dichloroethane	< 1.60	ppbv	D	10	< 6.48	µg/m³	11/30/2009 7:09 PM
Trichlorofluoromethane	0.320	ppbv		1	1.80	µg/m³	11/30/2009 3:46 PM
Trichlorofluoromethane	< 1.60	ppbv	D	10	< 8.99	µg/m³	11/30/2009 7:09 PM
n-Hexane	3.08	ppbv		1	10.9	µg/m³	11/30/2009 3:46 PM
n-Hexane	2.5	ppbv	JD	10	8.81	µg/m³	11/30/2009 7:09 PM
Methyl tert-butyl ether	0.33	ppbv	J	1	1.19	µg/m³	11/30/2009 3:46 PM
Methyl tert-butyl ether	< 8.00	ppbv	D	10	< 28.8	µg/m³	11/30/2009 7:09 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	11/30/2009 3:46 PM
1,2-Dichloroethene (trans)	< 8.00	ppbv	D	10	< 31.7	µg/m³	11/30/2009 7:09 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 3:46 PM
1,2-Dichloroethene (cis)	< 1.60	ppbv	D	10	< 6.34	µg/m³	11/30/2009 7:09 PM
Tetrahydrofuran	0.32	ppbv	J	1	0.944	µg/m³	11/30/2009 3:46 PM
Tetrahydrofuran	< 8.00	ppbv	D	10	< 23.6	µg/m³	11/30/2009 7:09 PM
Methyl ethyl ketone	1.51	ppbv		1	4.45	µg/m³	11/30/2009 3:46 PM
Methyl ethyl ketone	1.6	ppbv	JD	10	4.72	µg/m³	11/30/2009 7:09 PM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	11/30/2009 3:46 PM
Chloroform	< 1.60	ppbv	D	10	< 7.81	µg/m³	11/30/2009 7:09 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.635	µg/m³	11/30/2009 3:46 PM
1,2-Dichloroethane	< 1.60	ppbv	D	10	< 6.35	µg/m³	11/30/2009 7:09 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 3:46 PM
1,1,1-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	11/30/2009 7:09 PM
Cyclohexane	0.810	ppbv		1	2.79	µg/m³	11/30/2009 3:46 PM
Cyclohexane	< 8.00	ppbv	D	10	< 27.5	µg/m³	11/30/2009 7:09 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	11/30/2009 3:46 PM
Thiophene	< 8.00	ppbv	D	10	< 27.5	µg/m³	11/30/2009 7:09 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	11/30/2009 3:46 PM
Carbon tetrachloride	< 1.60	ppbv	D	10	< 10.1	µg/m³	11/30/2009 7:09 PM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	11/30/2009 3:46 PM
Bromodichloromethane	< 8.00	ppbv	D	10	< 53.6	µg/m³	11/30/2009 7:09 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	11/30/2009 3:46 PM
1,2-Dichloropropane	< 1.60	ppbv	D	10	< 7.39	µg/m³	11/30/2009 7:09 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 3:46 PM
1,4-Dioxane	< 8.00	ppbv	D	10	< 28.8	µg/m³	11/30/2009 7:09 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S26

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-003A

Sample Information...
Type : Air

Origin:

Client Sample ID. : IA-2

Collected : 11/17/2009 4:50:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,2,4-Trimethylpentane	0.990	ppbv		1	4.62	µg/m³	11/30/2009 3:46 PM
2,2,4-Trimethylpentane	< 8.00	ppbv	D	10	< 37.4	µg/m³	11/30/2009 7:09 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 3:46 PM
1,3-Dichloropropene (cis)	< 1.60	ppbv	D	10	< 7.26	µg/m³	11/30/2009 7:09 PM
Trichloroethene	< 0.160	ppbv		1	< 0.860	µg/m³	11/30/2009 3:46 PM
Trichloroethene	< 1.60	ppbv	D	10	< 8.60	µg/m³	11/30/2009 7:09 PM
Benzene	1.55	ppbv		1	4.95	µg/m³	11/30/2009 3:46 PM
Benzene	< 1.60	ppbv	D	10	< 5.11	µg/m³	11/30/2009 7:09 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	11/30/2009 3:46 PM
Dibromochloromethane	< 8.00	ppbv	D	10	< 68.2	µg/m³	11/30/2009 7:09 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 3:46 PM
1,3-Dichloropropene (trans)	< 1.60	ppbv	D	10	< 7.26	µg/m³	11/30/2009 7:09 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 3:46 PM
1,1,2-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	11/30/2009 7:09 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	11/30/2009 3:46 PM
Bromoform	< 8.00	ppbv	D	10	< 82.7	µg/m³	11/30/2009 7:09 PM
n-Heptane	0.900	ppbv		1	3.69	µg/m³	11/30/2009 3:46 PM
n-Heptane	< 8.00	ppbv	D	10	< 32.8	µg/m³	11/30/2009 7:09 PM
Methyl isobutyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 3:46 PM
Methyl isobutyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	11/30/2009 7:09 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 3:46 PM
Methyl butyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	11/30/2009 7:09 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 3:46 PM
1,2-Dibromoethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	11/30/2009 7:09 PM
Tetrachloroethene	< 0.160	ppbv		1	< 1.08	µg/m³	11/30/2009 3:46 PM
Tetrachloroethene	< 1.60	ppbv	D	10	< 10.8	µg/m³	11/30/2009 7:09 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	11/30/2009 3:46 PM
1,1,2,2-Tetrachloroethane	< 1.60	ppbv	D	10	< 11.0	µg/m³	11/30/2009 7:09 PM
Toluene	6.01	ppbv		1	22.6	µg/m³	11/30/2009 3:46 PM
Toluene	2.90	ppbv	D	10	10.9	µg/m³	11/30/2009 7:09 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	11/30/2009 3:46 PM
Chlorobenzene	< 1.60	ppbv	D	10	< 7.37	µg/m³	11/30/2009 7:09 PM
Ethylbenzene	0.720	ppbv		1	3.13	µg/m³	11/30/2009 3:46 PM
Ethylbenzene	< 1.60	ppbv	D	10	< 6.95	µg/m³	11/30/2009 7:09 PM
Styrene	< 0.160	ppbv		1	< 0.681	µg/m³	11/30/2009 3:46 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S27

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-003A

Client Sample ID. : IA-2

Sample Information...
Type : Air

Origin:

Collected :11/17/2009 4:50:00 PM
Received :11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Styrene	< 1.60	ppbv	D	10	< 6.81	µg/m³	11/30/2009 7:09 PM
Xylenes (m&p)	2.54	ppbv		1	11.0	µg/m³	11/30/2009 3:46 PM
Xylenes (m&p)	< 1.60	ppbv	D	10	< 6.95	µg/m³	11/30/2009 7:09 PM
Xylenes (o)	0.950	ppbv	J	1	4.13	µg/m³	11/30/2009 3:46 PM
Xylenes (o)	< 1.60	ppbv	D	10	< 6.95	µg/m³	11/30/2009 7:09 PM
2-Chlorotoluene	< 0.160	ppbv		1	< 0.828	µg/m³	11/30/2009 3:46 PM
2-Chlorotoluene	< 1.60	ppbv	D	10	< 8.28	µg/m³	11/30/2009 7:09 PM
4-Ethyltoluene	0.29	ppbv	J	1	1.43	µg/m³	11/30/2009 3:46 PM
4-Ethyltoluene	< 8.00	ppbv	D	10	< 39.3	µg/m³	11/30/2009 7:09 PM
1,3,5-Trimethylbenzene	0.270	ppbv		1	1.33	µg/m³	11/30/2009 3:46 PM
1,3,5-Trimethylbenzene	< 1.60	ppbv	D	10	< 7.87	µg/m³	11/30/2009 7:09 PM
1,2,4-Trimethylbenzene	1.10	ppbv		1	5.41	µg/m³	11/30/2009 3:46 PM
1,2,4-Trimethylbenzene	< 1.60	ppbv	D	10	< 7.87	µg/m³	11/30/2009 7:09 PM
1,2,3-Trimethylbenzene	0.29	ppbv	J	1	1.43	µg/m³	11/30/2009 3:46 PM
1,2,3-Trimethylbenzene	< 8.00	ppbv	D	10	< 39.3	µg/m³	11/30/2009 7:09 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 3:46 PM
1,3-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	11/30/2009 7:09 PM
1,4-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 3:46 PM
1,4-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	11/30/2009 7:09 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 3:46 PM
1,2-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	11/30/2009 7:09 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	11/30/2009 3:46 PM
1,3-Hexachlorobutadiene	< 8.00	ppbv	D	10	< 85.3	µg/m³	11/30/2009 7:09 PM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	11/30/2009 3:46 PM
1,2,4-Trichlorobenzene	< 8.00	ppbv	D	10	< 59.4	µg/m³	11/30/2009 7:09 PM
Indan	0.27	ppbv	J	1	1.31	µg/m³	11/30/2009 3:46 PM
Indan	< 8.00	ppbv	D	10	< 38.7	µg/m³	11/30/2009 7:09 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	11/30/2009 3:46 PM
Indene	< 8.00	ppbv	D	10	< 38.0	µg/m³	11/30/2009 7:09 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv		1	< 4.39	µg/m³	11/30/2009 3:46 PM
1,2,4,5-Tetramethylbenzene	< 8.00	ppbv	D	10	< 43.9	µg/m³	11/30/2009 7:09 PM
Naphthalene	0.26	ppbv	J	1	1.36	µg/m³	11/30/2009 3:46 PM
Naphthalene	< 8.00	ppbv	D	10	< 41.9	µg/m³	11/30/2009 7:09 PM
2-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	11/30/2009 3:46 PM
2-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	11/30/2009 7:09 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S28

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-003A

Client Sample ID. : IA-2

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:50:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	11/30/2009 3:46 PM
1-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	11/30/2009 7:09 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S29

1F

EPA SAMPLE NO.

IA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-003A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6083.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Alkane:Straight-Chain (3.14)	3.14	2.50	J
2.	Alkane:Branched (4.51)	4.51	4.40	J
3. 000124-38-9	Carbon dioxide	5.45	16.3	JN
4.	Alkane:Straight-Chain (5.8)	5.80	5.80	J
5.	Alkane:Straight-Chain (11.8)	11.80	5.30	J
6.	Alkane:Branched (15.53)	15.53	2.30	J
7.	Alkane:Cyclic	17.06	2.80	J
8.	unknown siloxane (22.42)	22.42	1.10	JX
9.	unknown siloxane (28.32)	28.32	1.20	JX

AECOM061 S30

1F

EPA SAMPLE NO.

IA-2DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-003ADL

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6087.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

AECOM061 S31

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **0912538-004A**

Client Sample ID. : **SV-1**

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:56:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : **Original**
CC

Report original (1x) analysis for all analytes except those listed below.

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 8:00 PM
2,3-Dimethylpentane	< 1.60	ppbv	D	2	< 6.56	µg/m³	12/01/2009 9:01 AM
2-Methylpentane	0.17	ppbv	J	1	0.599	µg/m³	11/30/2009 8:00 PM
2-Methylpentane	< 1.60	ppbv	D	2	< 5.64	µg/m³	12/01/2009 9:01 AM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	11/30/2009 8:00 PM
Freon-114	< 0.320	ppbv	D	2	< 2.24	µg/m³	12/01/2009 9:01 AM
Isopentane	0.36	ppbv	J	1	1.06	µg/m³	11/30/2009 8:00 PM
Isopentane	0.34	ppbv	JD	2	1.00	µg/m³	12/01/2009 9:01 AM
Propylene	< 0.800	ppbv		1	< 1.38	µg/m³	11/30/2009 8:00 PM
Propylene	< 1.60	ppbv	D	2	< 2.75	µg/m³	12/01/2009 9:01 AM
Dichlorodifluoromethane	8.42	ppbv		1	41.6	µg/m³	11/30/2009 8:00 PM
Dichlorodifluoromethane	8.12	ppbv	D	2	40.2	µg/m³	12/01/2009 9:01 AM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	11/30/2009 8:00 PM
Chloromethane	< 0.320	ppbv	D	2	< 0.661	µg/m³	12/01/2009 9:01 AM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	11/30/2009 8:00 PM
1,3-Butadiene	< 1.60	ppbv	D	2	< 3.54	µg/m³	12/01/2009 9:01 AM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	11/30/2009 8:00 PM
Bromomethane	< 0.320	ppbv	D	2	< 1.24	µg/m³	12/01/2009 9:01 AM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	11/30/2009 8:00 PM
Vinyl chloride	< 0.320	ppbv	D	2	< 0.818	µg/m³	12/01/2009 9:01 AM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	11/30/2009 8:00 PM
Chloroethane	< 0.320	ppbv	D	2	< 0.844	µg/m³	12/01/2009 9:01 AM
Ethanol	0.830	ppbv		1	1.56	µg/m³	11/30/2009 8:00 PM
Ethanol	1.3	ppbv	JD	2	2.45	µg/m³	12/01/2009 9:01 AM
Isopropanol	2.98	ppbv		1	7.33	µg/m³	11/30/2009 8:00 PM
Isopropanol	2.92	ppbv	D	2	7.18	µg/m³	12/01/2009 9:01 AM
Methylene chloride	0.960	ppbv	B	1	3.34	µg/m³	11/30/2009 8:00 PM
Methylene chloride	2.38	ppbv	D	2	8.27	µg/m³	12/01/2009 9:01 AM
Acetone	4.10	ppbv		1	9.74	µg/m³	11/30/2009 8:00 PM
Acetone	4.48	ppbv	D	2	10.6	µg/m³	12/01/2009 9:01 AM
Carbon disulfide	0.64	ppbv	J	1	1.99	µg/m³	11/30/2009 8:00 PM
Carbon disulfide	0.74	ppbv	JD	2	2.30	µg/m³	12/01/2009 9:01 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 8:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.320	ppbv	D	2	< 2.45	µg/m³	12/01/2009 9:01 AM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 8:00 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported :

AECOM061 S32

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-004A

Client Sample ID. : SV-1

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:56:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1-Dichloroethene	< 0.320	ppbv	D	2	< 1.27	µg/m³	12/01/2009 9:01 AM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	11/30/2009 8:00 PM
1,1-Dichloroethane	< 0.320	ppbv	D	2	< 1.30	µg/m³	12/01/2009 9:01 AM
Trichlorofluoromethane	2.82	ppbv		1	15.8	µg/m³	11/30/2009 8:00 PM
Trichlorofluoromethane	2.68	ppbv	D	2	15.1	µg/m³	12/01/2009 9:01 AM
n-Hexane	< 0.800	ppbv		1	< 2.82	µg/m³	11/30/2009 8:00 PM
n-Hexane	< 1.60	ppbv	D	2	< 5.64	µg/m³	12/01/2009 9:01 AM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 8:00 PM
Methyl tert-butyl ether	< 1.60	ppbv	D	2	< 5.77	µg/m³	12/01/2009 9:01 AM
1,2-Dichloroethene (trans)	0.22	ppbv	J	1	0.872	µg/m³	11/30/2009 8:00 PM
1,2-Dichloroethene (trans)	< 1.60	ppbv	D	2	< 6.34	µg/m³	12/01/2009 9:01 AM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	11/30/2009 8:00 PM
1,2-Dichloroethene (cis)	< 0.320	ppbv	D	2	< 1.27	µg/m³	12/01/2009 9:01 AM
Tetrahydrofuran	< 0.800	ppbv		1	< 2.36	µg/m³	11/30/2009 8:00 PM
Tetrahydrofuran	< 1.60	ppbv	D	2	< 4.72	µg/m³	12/01/2009 9:01 AM
Methyl ethyl ketone	0.50	ppbv	J	1	1.47	µg/m³	11/30/2009 8:00 PM
Methyl ethyl ketone	0.52	ppbv	JD	2	1.53	µg/m³	12/01/2009 9:01 AM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	11/30/2009 8:00 PM
Chloroform	< 0.320	ppbv	D	2	< 1.56	µg/m³	12/01/2009 9:01 AM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.635	µg/m³	11/30/2009 8:00 PM
1,2-Dichloroethane	< 0.320	ppbv	D	2	< 1.27	µg/m³	12/01/2009 9:01 AM
1,1,1-Trichloroethane	0.720	ppbv		1	3.93	µg/m³	11/30/2009 8:00 PM
1,1,1-Trichloroethane	0.680	ppbv	D	2	3.71	µg/m³	12/01/2009 9:01 AM
Cyclohexane	< 0.800	ppbv		1	< 2.75	µg/m³	11/30/2009 8:00 PM
Cyclohexane	< 1.60	ppbv	D	2	< 5.51	µg/m³	12/01/2009 9:01 AM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	11/30/2009 8:00 PM
Thiophene	< 1.60	ppbv	D	2	< 5.51	µg/m³	12/01/2009 9:01 AM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	11/30/2009 8:00 PM
Carbon tetrachloride	< 0.320	ppbv	D	2	< 2.01	µg/m³	12/01/2009 9:01 AM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	11/30/2009 8:00 PM
Bromodichloromethane	< 1.60	ppbv	D	2	< 10.7	µg/m³	12/01/2009 9:01 AM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	11/30/2009 8:00 PM
1,2-Dichloropropane	< 0.320	ppbv	D	2	< 1.48	µg/m³	12/01/2009 9:01 AM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	11/30/2009 8:00 PM
1,4-Dioxane	< 1.60	ppbv	D	2	< 5.77	µg/m³	12/01/2009 9:01 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S33

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-004A

Client Sample ID. :SV-1

Sample Information...
Type : Air

Origin:

Collected :11/17/2009 4:56:00 PM
Received :11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,2,4-Trimethylpentane	< 0.800	ppbv		1	< 3.74	µg/m³	11/30/2009 8:00 PM
2,2,4-Trimethylpentane	< 1.60	ppbv	D	2	< 7.47	µg/m³	12/01/2009 9:01 AM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 8:00 PM
1,3-Dichloropropene (cis)	< 0.320	ppbv	D	2	< 1.45	µg/m³	12/01/2009 9:01 AM
Trichloroethene	0.800	ppbv		1	4.30	µg/m³	11/30/2009 8:00 PM
Trichloroethene	0.740	ppbv	D	2	3.98	µg/m³	12/01/2009 9:01 AM
Benzene	1.16	ppbv		1	3.71	µg/m³	11/30/2009 8:00 PM
Benzene	1.10	ppbv	D	2	3.51	µg/m³	12/01/2009 9:01 AM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	11/30/2009 8:00 PM
Dibromochloromethane	< 1.60	ppbv	D	2	< 13.6	µg/m³	12/01/2009 9:01 AM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	11/30/2009 8:00 PM
1,3-Dichloropropene (trans)	< 0.320	ppbv	D	2	< 1.45	µg/m³	12/01/2009 9:01 AM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	11/30/2009 8:00 PM
1,1,2-Trichloroethane	< 0.320	ppbv	D	2	< 1.75	µg/m³	12/01/2009 9:01 AM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	11/30/2009 8:00 PM
Bromoform	< 1.60	ppbv	D	2	< 16.5	µg/m³	12/01/2009 9:01 AM
n-Heptane	0.24	ppbv	J	1	0.984	µg/m³	11/30/2009 8:00 PM
n-Heptane	< 1.60	ppbv	D	2	< 6.56	µg/m³	12/01/2009 9:01 AM
Methyl isobutyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	11/30/2009 8:00 PM
Methyl isobutyl ketone	< 1.60	ppbv	D	2	< 6.56	µg/m³	12/01/2009 9:01 AM
Methyl butyl ketone	0.44	ppbv	J	1	1.80	µg/m³	11/30/2009 8:00 PM
Methyl butyl ketone	0.40	ppbv	JD	2	1.64	µg/m³	12/01/2009 9:01 AM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	11/30/2009 8:00 PM
1,2-Dibromoethane	< 0.320	ppbv	D	2	< 2.46	µg/m³	12/01/2009 9:01 AM
Tetrachloroethene	9.74	ppbv		1	66.0	µg/m³	11/30/2009 8:00 PM
Tetrachloroethene	8.84	ppbv	D	2	59.9	µg/m³	12/01/2009 9:01 AM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	11/30/2009 8:00 PM
1,1,2,2-Tetrachloroethane	< 0.320	ppbv	D	2	< 2.20	µg/m³	12/01/2009 9:01 AM
Toluene	15.3	ppbv		1	57.7	µg/m³	11/30/2009 8:00 PM
Toluene	13.8	ppbv	D	2	52.0	µg/m³	12/01/2009 9:01 AM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	11/30/2009 8:00 PM
Chlorobenzene	< 0.320	ppbv	D	2	< 1.47	µg/m³	12/01/2009 9:01 AM
Ethylbenzene	13.0	ppbv		1	56.5	µg/m³	11/30/2009 8:00 PM
Ethylbenzene	11.3	ppbv	D	2	49.1	µg/m³	12/01/2009 9:01 AM
Styrene	6.20	ppbv		1	26.4	µg/m³	11/30/2009 8:00 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S34

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-004A

Client Sample ID. :SV-1

Sample Information...
Type : Air

Origin:

Collected :11/17/2009 4:56:00 PM
Received :11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Styrene	5.28	ppbv	D	2	22.5	µg/m³	12/01/2009 9:01 AM
Xylenes (m&p)	31.3	ppbv		1	136	µg/m³	11/30/2009 8:00 PM
Xylenes (m&p)	27.7	ppbv	D	2	120	µg/m³	12/01/2009 9:01 AM
Xylenes (o)	15.9	ppbv	J	1	69.1	µg/m³	11/30/2009 8:00 PM
Xylenes (o)	14.3	ppbv	D	2	62.1	µg/m³	12/01/2009 9:01 AM
2-Chlorotoluene	< 0.160	ppbv		1	< 0.828	µg/m³	11/30/2009 8:00 PM
2-Chlorotoluene	< 0.320	ppbv	D	2	< 1.66	µg/m³	12/01/2009 9:01 AM
4-Ethyltoluene	5.06	ppbv		1	24.9	µg/m³	11/30/2009 8:00 PM
4-Ethyltoluene	4.66	ppbv	D	2	22.9	µg/m³	12/01/2009 9:01 AM
1,3,5-Trimethylbenzene	4.77	ppbv		1	23.5	µg/m³	11/30/2009 8:00 PM
1,3,5-Trimethylbenzene	4.18	ppbv	D	2	20.5	µg/m³	12/01/2009 9:01 AM
1,2,4-Trimethylbenzene	18.9	ppbv		1	92.9	µg/m³	11/30/2009 8:00 PM
1,2,4-Trimethylbenzene	17.1	ppbv	D	2	84.1	µg/m³	12/01/2009 9:01 AM
1,2,3-Trimethylbenzene	5.32	ppbv		1	26.2	µg/m³	11/30/2009 8:00 PM
1,2,3-Trimethylbenzene	4.88	ppbv	D	2	24.0	µg/m³	12/01/2009 9:01 AM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 8:00 PM
1,3-Dichlorobenzene	< 0.320	ppbv	D	2	< 1.92	µg/m³	12/01/2009 9:01 AM
1,4-Dichlorobenzene	0.170	ppbv		1	1.02	µg/m³	11/30/2009 8:00 PM
1,4-Dichlorobenzene	< 0.320	ppbv	D	2	< 1.92	µg/m³	12/01/2009 9:01 AM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	11/30/2009 8:00 PM
1,2-Dichlorobenzene	< 0.320	ppbv	D	2	< 1.92	µg/m³	12/01/2009 9:01 AM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	11/30/2009 8:00 PM
1,3-Hexachlorobutadiene	< 1.60	ppbv	D	2	< 17.1	µg/m³	12/01/2009 9:01 AM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	11/30/2009 8:00 PM
1,2,4-Trichlorobenzene	< 1.60	ppbv	D	2	< 11.9	µg/m³	12/01/2009 9:01 AM
Indan	13.0	ppbv		1	62.8	µg/m³	11/30/2009 8:00 PM
Indan	12.3	ppbv	D	2	59.5	µg/m³	12/01/2009 9:01 AM
Indene	35.2	ppbv		1	167	µg/m³	11/30/2009 8:00 PM
Indene	31.9	ppbv	D	2	152	µg/m³	12/01/2009 9:01 AM
1,2,4,5-Tetramethylbenzene	0.56	ppbv	J	1	3.07	µg/m³	11/30/2009 8:00 PM
1,2,4,5-Tetramethylbenzene	0.52	ppbv	JD	2	2.85	µg/m³	12/01/2009 9:01 AM
Naphthalene	45.1	ppbv	E	1	236	µg/m³	11/30/2009 8:00 PM
Naphthalene	53.4	ppbv	D J	2	280	µg/m³	12/01/2009 9:01 AM
2-Methylnaphthalene	1.45	ppbv	J	1	8.43	µg/m³	11/30/2009 8:00 PM
2-Methylnaphthalene	4.22	ppbv	D	2	24.5	µg/m³	12/01/2009 9:01 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S35

H2M LABS, INC.
575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-004A

Client Sample ID. : SV-1

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 4:56:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	0.53	ppbv	J	1	3.08	µg/m³	11/30/2009 8:00 PM
1-Methylnaphthalene	1.62	ppbv	D	2	9.42	µg/m³	12/01/2009 9:01 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM061 S36

1F

EPA SAMPLE NO.

SV-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-004A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6088.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 8 (µg/L or µg/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.00	6.70	JN
2.	000124-38-9	Carbon dioxide	5.46	25.6	JN
3.		c3 subst_benzene	25.88	4.60	J
4.		Alkane:Branched (26.58)	26.58	5.70	J
5.		Alkane:Branched (26.85)	26.85	20.1	J
6.		Alkane:Branched (27.08)	27.08	5.30	J
7.		Alkane:Branched (27.15)	27.15	15.9	J
8.		Alkane:Branched (27.2)	27.20	14.3	J
9.		Alkane:Branched (27.43)	27.43	11.1	J
10.		unknown (27.56)	27.56	3.70	J
11.		Alkane:Branched (27.62)	27.62	6.70	J
12.		Alkane:Branched (27.7)	27.70	6.50	J
13.		Methyldecahydronaphthalene(isomer) (2	28.31	4.50	J
14.		Methyldecahydronaphthalene(isomer)(28	28.58	4.80	J
15.		Alkane:Straight-Chain (28.91)	28.91	5.50	J
16.		Unknown (28.98)	28.98	5.40	J
17.		Alkane:Branched (29.11)	29.11	3.90	J
18.		Alkane:Branched (29.23)	29.23	3.50	J
19.		unknown (29.55)	29.55	4.20	J

AECOM061 S37

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SV-1DL

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-004ADL

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6098.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 12/01/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 2.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 7 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.01	6.60	JND
2. 000124-38-9	Carbon dioxide	5.46	36.2	JND
3.	c3 subst_benzene	25.87	4.60	JD
4.	Alkane:Straight-Chain (26.09)	26.09	3.60	JD
5.	Alkane:Branched (26.58)	26.58	6.00	JD
6.	Alkane:Branched (26.84)	26.84	18.8	JD
7.	Alkane:Straight-Chain (27.07)	27.07	4.40	JD
8.	Alkane:Branched (27.14)	27.14	15.0	JD
9.	Alkane:Branched (27.2)	27.20	12.0	JD
10.	Alkane:Branched (27.42)	27.42	10.2	JD
11.	Alkane:Branched (27.61)	27.61	6.60	JD
12.	Alkane:Branched (27.7)	27.70	6.40	JD
13.	Methyldecahydronaphthalene(isomer) (2	28.30	5.20	JD
14.	Methyldecahydronaphthalene(isomer) (2	28.58	4.20	JD
15.	Alkane:Straight-Chain (28.91)	28.91	4.40	JD
16.	unknown (28.98)	28.98	3.80	JD
17.	Alkane:Branched (29.11)	29.11	5.60	JD
18.	unknown (29.55)	29.55	6.60	JD
19.	Alkane:Branched (29.71)	29.71	5.40	JD

AECOM061 S38

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-005A

Client Sample ID. :SV-2

Sample Information...
Type : Air

Origin:

Collected :11/17/2009 6:00:00 PM
Received :11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

REVISED
DATE: 12/11/09

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	< 8.00	ppbv		10	< 32.8	µg/m³	11/30/2009 5:28 PM
2-Methylpentane	< 8.00	ppbv		10	< 28.2	µg/m³	11/30/2009 5:28 PM
Freon-114	< 1.60	ppbv		10	< 11.2	µg/m³	11/30/2009 5:28 PM
Isopentane	2.8	ppbv	J	10	8.26	µg/m³	11/30/2009 5:28 PM
Propylene	3.4	ppbv	J	10	5.85	µg/m³	11/30/2009 5:28 PM
Dichlorodifluoromethane	< 1.60	ppbv		10	< 7.91	µg/m³	11/30/2009 5:28 PM
Chloromethane	< 1.60	ppbv		10	< 3.30	µg/m³	11/30/2009 5:28 PM
1,3-Butadiene	< 8.00	ppbv		10	< 17.7	µg/m³	11/30/2009 5:28 PM
Bromomethane	< 1.60	ppbv		10	< 6.21	µg/m³	11/30/2009 5:28 PM
Vinyl chloride	< 1.60	ppbv		10	< 4.09	µg/m³	11/30/2009 5:28 PM
Chloroethane	< 1.60	ppbv		10	< 4.22	µg/m³	11/30/2009 5:28 PM
Ethanol	< 8.00	ppbv		10	< 15.1	µg/m³	11/30/2009 5:28 PM
Isopropanol	2.9	ppbv	J	10	7.13	µg/m³	11/30/2009 5:28 PM
Methylene chloride	2.80	ppbv	~~B~~	10	9.73	µg/m³	11/30/2009 5:28 PM
Acetone	58.5	ppbv		10	139	µg/m³	11/30/2009 5:28 PM
Carbon disulfide	8.80	ppbv		10	27.4	µg/m³	11/30/2009 5:28 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 1.60	ppbv		10	< 12.3	µg/m³	11/30/2009 5:28 PM
1,1-Dichloroethene	< 1.60	ppbv		10	< 6.34	µg/m³	11/30/2009 5:28 PM
1,1-Dichloroethane	< 1.60	ppbv		10	< 6.48	µg/m³	11/30/2009 5:28 PM
Trichlorofluoromethane	3.80	ppbv		10	21.4	µg/m³	11/30/2009 5:28 PM
n-Hexane	< 8.00	ppbv		10	< 28.2	µg/m³	11/30/2009 5:28 PM
Methyl tert-butyl ether	< 8.00	ppbv		10	< 28.8	µg/m³	11/30/2009 5:28 PM
1,2-Dichloroethene (trans)	< 8.00	ppbv		10	< 31.7	µg/m³	11/30/2009 5:28 PM
1,2-Dichloroethene (cis)	< 1.60	ppbv		10	< 6.34	µg/m³	11/30/2009 5:28 PM
Tetrahydrofuran	1.9	ppbv	J	10	5.60	µg/m³	11/30/2009 5:28 PM
Methyl ethyl ketone	5.2	ppbv	J	10	15.3	µg/m³	11/30/2009 5:28 PM
Chloroform	5.10	ppbv		10	24.9	µg/m³	11/30/2009 5:28 PM
1,2-Dichloroethane	< 1.60	ppbv		10	< 6.35	µg/m³	11/30/2009 5:28 PM
1,1,1-Trichloroethane	< 1.60	ppbv		10	< 8.73	µg/m³	11/30/2009 5:28 PM
Cyclohexane	< 8.00	ppbv		10	< 27.5	µg/m³	11/30/2009 5:28 PM
Thiophene	< 8.00	ppbv		10	< 27.5	µg/m³	11/30/2009 5:28 PM
Carbon tetrachloride	< 1.60	ppbv		10	< 10.1	µg/m³	11/30/2009 5:28 PM
Bromodichloromethane	< 8.00	ppbv		10	< 53.6	µg/m³	11/30/2009 5:28 PM
1,2-Dichloropropane	< 1.60	ppbv		10	< 7.39	µg/m³	11/30/2009 5:28 PM
1,4-Dioxane	< 8.00	ppbv		10	< 28.8	µg/m³	11/30/2009 5:28 PM

JV 12/11/09

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported :

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 0912538-005A

Client Sample ID. : SV-2

Sample Information...
Type : Air

Origin:

Collected : 11/17/2009 6:00:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

REVISED
DATE: 12/11/09

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,2,4-Trimethylpentane	< 8.00	ppbv		10	< 37.4	µg/m³	11/30/2009 5:28 PM
1,3-Dichloropropene (cis)	< 1.60	ppbv		10	< 7.26	µg/m³	11/30/2009 5:28 PM
Trichloroethene	334	ppbv		10	1790	µg/m³	11/30/2009 5:28 PM
Benzene	2.60	ppbv		10	8.31	µg/m³	11/30/2009 5:28 PM
Dibromochloromethane	< 8.00	ppbv		10	< 68.2	µg/m³	11/30/2009 5:28 PM
1,3-Dichloropropene (trans)	< 1.60	ppbv		10	< 7.26	µg/m³	11/30/2009 5:28 PM
1,1,2-Trichloroethane	< 1.60	ppbv		10	< 8.73	µg/m³	11/30/2009 5:28 PM
Bromoform	< 8.00	ppbv		10	< 82.7	µg/m³	11/30/2009 5:28 PM
n-Heptane	< 8.00	ppbv		10	< 32.8	µg/m³	11/30/2009 5:28 PM
Methyl isobutyl ketone	< 8.00	ppbv		10	< 32.8	µg/m³	11/30/2009 5:28 PM
Methyl butyl ketone	< 8.00	ppbv		10	< 32.8	µg/m³	11/30/2009 5:28 PM
1,2-Dibromoethane	< 1.60	ppbv		10	< 12.3	µg/m³	11/30/2009 5:28 PM
Tetrachloroethene	276	ppbv		10	1870	µg/m³	11/30/2009 5:28 PM
1,1,2,2-Tetrachloroethane	< 1.60	ppbv		10	< 11.0	µg/m³	11/30/2009 5:28 PM
Toluene	19.5	ppbv		10	73.5	µg/m³	11/30/2009 5:28 PM
Chlorobenzene	< 1.60	ppbv		10	< 7.37	µg/m³	11/30/2009 5:28 PM
Ethylbenzene	11.0	ppbv		10	47.8	µg/m³	11/30/2009 5:28 PM
Styrene	4.10	ppbv		10	17.5	µg/m³	11/30/2009 5:28 PM
Xylenes (m&p)	28.4	ppbv		10	123	µg/m³	11/30/2009 5:28 PM
Xylenes (o)	10.3	ppbv	J	10	44.7	µg/m³	11/30/2009 5:28 PM
2-Chlorotoluene	< 1.60	ppbv		10	< 8.28	µg/m³	11/30/2009 5:28 PM
4-Ethyltoluene	2.7	ppbv	J	10	13.3	µg/m³	11/30/2009 5:28 PM
1,3,5-Trimethylbenzene	1.80	ppbv		10	8.85	µg/m³	11/30/2009 5:28 PM
1,2,4-Trimethylbenzene	7.20	ppbv		10	35.4	µg/m³	11/30/2009 5:28 PM
1,2,3-Trimethylbenzene	1.7	ppbv	J	10	8.36	µg/m³	11/30/2009 5:28 PM
1,3-Dichlorobenzene	< 1.60	ppbv		10	< 9.62	µg/m³	11/30/2009 5:28 PM
1,4-Dichlorobenzene	< 1.60	ppbv		10	< 9.62	µg/m³	11/30/2009 5:28 PM
1,2-Dichlorobenzene	< 1.60	ppbv		10	< 9.62	µg/m³	11/30/2009 5:28 PM
1,3-Hexachlorobutadiene	< 8.00	ppbv		10	< 85.3	µg/m³	11/30/2009 5:28 PM
1,2,4-Trichlorobenzene	< 8.00	ppbv		10	< 59.4	µg/m³	11/30/2009 5:28 PM
Indan	6.5	ppbv	J	10	31.4	µg/m³	11/30/2009 5:28 PM
Indene	16.2	ppbv		10	77.0	µg/m³	11/30/2009 5:28 PM
1,2,4,5-Tetramethylbenzene	< 8.00	ppbv		10	< 43.9	µg/m³	11/30/2009 5:28 PM
Naphthalene	15.7	ppbv	J	10	82.3	µg/m³	11/30/2009 5:28 PM
2-Methylnaphthalene	< 8.00	ppbv		10	< 46.5	µg/m³	11/30/2009 5:28 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin
Laboratory Manager

Date Reported :

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. :0912538-005A

Client Sample ID. :SV-2

Collected : 11/17/2009 6:00:00 PM
Received : 11/18/2009 4:34:00 PM
Collected By : JL99
Copy : Original
CC

Sample Information...
Type : Air

Origin:

REVISED
DATE: 12/11/09

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	< 8.00	ppbv		10	< 46.5	µg/m³	11/30/2009 5:28 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

1F

EPA SAMPLE NO.

SV-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: 0912538-005A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6085.D

Level: (low/med) LOW Date Received: 11/18/09

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 10.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000124-38-9	Carbon dioxide	5.45	110	JN
2.	Alkane:Branched (26.83)	26.83	14	J
3.	Alkane:Branched (27.12)	27.12	10	J

REVISED

DATE: 12/11/09

Appendix C

Support Documentation

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILE ANALYSES
SAMPLES RECEIVED: 11/18/09
SDG #: AECOM061

For Samples:

AMB-1	SV-1
IA-1	SV-2
IA-2	

The above air samples were analyzed for a specific list of volatile organic analytes according to the requirements of EPA method TO-15. They are reported with NYSDEC ASP 2000 category B deliverables.

All quality control and calibration requirements were met, unless discussed below, and no problems were encountered with sample analyses.

No matrix spike/ matrix spike duplicate was requested, but a lab-fortified blank was analyzed. All recoveries met the Q. C. limits with the exception of a result for o-xylene slightly above the high limit.

A low level of methylene chloride was present in the method blank. Methylene chloride results are flagged with the qualifier "B" if found in the samples.

As requested, some analytes are reported to a low PQL of 0.16 ppbv. No estimated values below this level (with the qualifier "J") are reported, and no values are reported below the equivalent levels in the dilutions.

Please note that the PQLs in the method blank for the low analytes are 0.16 ppbv. Since the reporting data system is set up for higher PQLs, the value is rounded to one decimal and is reported as 0.2 ppbv (rounded) in the report for the blank due to the reporting format.

TICs suspected to be column bleed from the analytical column were flagged with the qualifier "X".

%D for the analytes 1,2,4,5-tetramethylbenzene, naphthalene and 2-methyl naphthalene exceeded 30% in the continuous calibration check (CCV). Results for these compounds therefore may be outside the expected accuracy limits. It should be noted, that in spite of the deviation for the CCV, the results for the lab fortified blank (LFB) for these compounds met the acceptance limits.

Sample results are reported in both ppbv and ug/m3 units.

H2M LABS, INC.

0283

575 Broad Hollow Rd., Melville, NY 11747
Tel: (631) 694-3040 Fax:(631) 420-8436

AIR CANISTER CHAIN OF CUSTODY

Client Contact Information	Project Manager: PETE COX	CLIENT: AECOM	H2M SDG NO.: AECOM061
Company: AECOM	Phone: 978-589-3012	Samplers Name(s) Jesse Lloyd	CO #207 Guage #1
Address: 200 LIBERTY STREET	Site Contact: J. Pfeiffer		
City/State/Zip MANHATTAN, NY			
Phone: 212-798-8500			
FAX: 212-798-8501			
Project Name: EQUITY FORMER MGP	Analysis Turnaround Time		
Site: EQUITY - 222+252 PARCEL	Standard (Specify) STANDARD.		
PO #	Rush (Specify)		

Sample Identification	Date Collected	Time Collected	Temp. (F)	Canister Pressure FIELD Initial("Hg) (Start)	FIELD ("Hg) / PSI (Stop)	LAB Outgoing ("Hg) (Lab)	LAB Incoming ("Hg) (Lab)	Flow Controller ID	Canister ID	Can Size (L)	LAB ID No.	Analysis: TO-15	~~OTHER~~ NAPHTHALENE	*INDICATOR Cmpds	Matrix: Indoor / Ambient Air	Soil Gas	Source Level
IA-1	11/17/09	0916 1655		-31	-5	-30	-5	1908	3393	6.0	3413	✓	✓	0912	538	-	002
SV-1	11/17/09	0916 1656		-29	-6	-30	-6	1075	3394	6.0	3394	✓	✓		↓	-	004
IA-2	11/17/09	0915 1650		-30	-6	-30	-6	1023	3396	6.0	3421	✓	✓		↓	-	003
SV-2	11/17/09	0914 1800		-27	-4.5	-30	-4.5	914	3413	6.0	3418	✓	✓		↓	-	005
AMB-1	11/17/09	0920 1652		-30	-4	-30	-4	911	3418	6.0	3393	✓	✓	0912	538	-	001
						-30			3421	6.0							

	Pressure Ambient	Pressure Maximum	Pressure Minimum	Temperature (Fahrenheit) Ambient	Temperature Maximum	Temperature Minimum
Start						
Stop						

Special Instructions/QC Requirements & Comments: CANISTER 3396 NOT USED; ADD HELIUM TO SV-1 AND SV-2

Samples Relinquished by: [signature]	Date/Time: 11/18/09 / 1501	Received by: S. Watt	Date/Time: 11-18-09 15:01
Relinquished by: S. Watt	Date/Time: 11/18/09 16:34	Received by: M. Watt	Date/Time: 11-18-09 16:34

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

* Notify lab if equipment is damaged upon receipt. Client is responsible for damage to equipement

AECOM061 S6

AECOM 061

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 11/18/2009 4:34:00 PM

Work Order Number 0912538 | Received by MCW

Checklist completed by M. Watt (Signature) 11.20.09 (Date) | Reviewed by JSA (Initials) 11/20/09 (Date)

Matrix: | Carrier name Pickup

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? | Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted NO | Date contacted: | Person contacted

Contacted by: | Regarding

Comments: Flow Controller IDs were not assigned to samples on C.O.C. Used sample tags to find the information.

Corrective Action

AECOM061 S7

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK113009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: VBLK113009

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6079.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
565-59-3	2,3-Dimethylpentane	0.8	U
107-83-5	2-Methylpentane	0.8	U
76-14-2	Freon-114	0.2	U
78-78-4	Isopentane	0.8	U
115-07-1	Propylene	0.8	U
75-71-8	Dichlorodifluoromethane	0.2	U
74-87-3	Chloromethane	0.2	U
106-99-0	1,3-Butadiene	0.8	U
74-83-9	Bromomethane	0.2	U
75-01-4	Vinyl chloride	0.2	U
75-00-3	Chloroethane	0.2	U
64-17-5	Ethanol	0.8	U
67-63-0	Isopropanol	0.8	U
75-09-2	Methylene chloride	0.250	
67-64-1	Acetone	0.8	U
75-15-0	Carbon disulfide	0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	U
75-35-4	1,1-Dichloroethene	0.2	U
75-34-3	1,1-Dichloroethane	0.2	U
75-69-4	Trichlorofluoromethane	0.2	U
110-54-3	n-Hexane	0.8	U
1634-04-4	Methyl tert-butyl ether	0.8	U
156-60-5	1,2-Dichloroethene (trans)	0.8	U
156-59-2	1,2-Dichloroethene (cis)	0.2	U
109-99-9	Tetrahydrofuran	0.8	U
78-93-3	Methyl ethyl ketone	0.8	U
67-66-3	Chloroform	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-55-6	1,1,1-Trichloroethane	0.2	U
110-82-7	Cyclohexane	0.8	U
110-02-1	Thiophene	0.8	U
56-23-5	Carbon tetrachloride	0.2	U
75-27-4	Bromodichloromethane	0.8	U
78-87-5	1,2-Dichloropropane	0.2	U
123-91-1	1,4-Dioxane	0.8	U

AECOM061 V294

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK113009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: VBLK113009

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6079.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
540-84-1	2,2,4-Trimethylpentane	0.8	U
10061-01-5	1,3-Dichloropropene (cis)	0.2	U
79-01-6	Trichloroethene	0.2	U
71-43-2	Benzene	0.2	U
124-48-1	Dibromochloromethane	0.8	U
10061-02-6	1,3-Dichloropropene (trans)	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
75-25-2	Bromoform	0.8	U
142-82-5	n-Heptane	0.8	U
108-10-1	Methyl isobutyl ketone	0.8	U
591-78-6	Methyl butyl ketone	0.8	U
106-93-4	1,2-Dibromoethane	0.2	U
127-18-4	Tetrachloroethene	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
108-88-3	Toluene	0.2	U
108-90-7	Chlorobenzene	0.2	U
100-41-4	Ethylbenzene	0.2	U
100-42-5	Styrene	0.2	U
108-38-3/106-42-3	Xylenes (m&p)	0.2	U
95-47-6	Xylenes (o)	0.2	U
95-49-8	2-Chlorotoluene	0.2	U
622-96-8	4-Ethyltoluene	0.8	U
108-67-8	1,3,5-Trimethylbenzene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	U
526-73-8	1,2,3-Trimethylbenzene	0.8	U
541-73-1	1,3-Dichlorobenzene	0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	U
87-68-3	1,3-Hexachlorobutadiene	0.8	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U

AECOM061 V295

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK113009

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Matrix: (soil/water) AIR Lab Sample ID: VBLK113009

Sample wt/vol: 400 (g/mL) ML Lab File ID: 09\I6079.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/30/09

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
496-11-7	Indan	0.8	U
95-13-6	Indene	0.8	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.8	U
91-20-3	Naphthalene	0.8	U
91-57-6	2-Methylnaphthalene	0.8	U
90-12-0	1-Methylnaphthalene	0.8	U

AECOM061 V296

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

SDG: AECOM061

Laboratory Samp ID	Client Sample ID	Matrix	Analytical Protocol	Date Collected	DateRecd at Lab	Date Extracted	Date Analyzed	Extraction Method	DF	Level	Aux Cleanup
0912538-001A	AMB-1	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		1	LOW	
0912538-002A	IA-1	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		1	LOW	
0912538-003A	IA-2	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		1	LOW	
0912538-003ADL	IA-2DL	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		10	LOW	
0912538-004A	SV-1	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		1	LOW	
0912538-004ADL	SV-1DL	Air	ETO-15	17-Nov-09	18-Nov-09		01-Dec-09		2	LOW	
0912538-005A	SV-2	Air	ETO-15	17-Nov-09	18-Nov-09		30-Nov-09		1	LOW	

CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Instrument ID: HP5973I Calibration Date: 11/30/2009 Time: 11:32

Lab File ID: 09\I6078.D Init. Calib. Date(s): 11/24/2009 11/25/2009

Heated Purge: (Y/N) N Init. Calib. Times: 21:07 11:27

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	CURVE TYPE	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	THEO CONC	RCVR CONC	%D²	MAX %D²	
Freon-114	AVRG	1.828	1.9386		6.1	30.0					*
Propylene	AVRG	0.536	0.60402		12.7	30.0					*
Dichlorodifluoromethane	AVRG	2.063	2.1860		5.9	30.0					*
Chloromethane	AVRG	0.534	0.59990		12.3	30.0					*
1,3-Butadiene	AVRG	0.541	0.63202		16.7	30.0					*
Bromomethane	AVRG	0.535	0.58510		9.3	30.0					*
Vinyl chloride	AVRG	0.578	0.66882		15.6	30.0					*
Chloroethane	AVRG	0.281	0.31206		11.0	30.0					*
Ethanol	AVRG	0.154	0.17355		12.6	30.0					*
Isopropanol	AVRG	1.031	1.1351		10.1	30.0					*
Methylene chloride	AVRG	0.801	0.83839		4.7	30.0					*
Acetone	AVRG	1.082	1.1108		2.7	30.0					*
Carbon disulfide	AVRG	1.944	1.9398		-0.2	30.0					*
1,1,2-Trichloro-1,2,2-triflu	AVRG	1.555	1.5402		-0.9	30.0					*
1,1-Dichloroethene	AVRG	0.595	0.62350		4.7	30.0					*
1,1-Dichloroethane	AVRG	1.448	1.4933		3.1	30.0					*
Trichlorofluoromethane	AVRG	2.067	2.0822		0.7	30.0					*
n-Hexane	AVRG	1.296	1.3445		3.7	30.0					*
Methyl tert-butyl ether	AVRG	1.994	2.0056		0.6	30.0					*
1,2-Dichloroethene (trans)	AVRG	0.729	0.75243		3.2	30.0					*
1,2-Dichloroethene (cis)	AVRG	0.978	1.0111		3.4	30.0					*
Tetrahydrofuran	AVRG	0.857	0.90358		5.5	30.0					*
Methyl ethyl ketone	AVRG	1.503	1.4763		-1.8	30.0					*
Chloroform	AVRG	2.325	2.3930		2.9	30.0					*
1,2-Dichloroethane	AVRG	1.090	1.1330		4.0	30.0					*
1,1,1-Trichloroethane	AVRG	0.532	0.53494		0.5	30.0					*
Cyclohexane	AVRG	0.264	0.29817		12.8	30.0					*
Thiophene	AVRG	0.122	0.13608		11.9	30.0					*
Carbon tetrachloride	AVRG	0.634	0.63489		0.1	30.0					*
Bromodichloromethane	AVRG	0.536	0.54641		1.9	30.0					*
1,2-Dichloropropane	AVRG	0.201	0.21169		5.6	30.0					*

AECOM061 V285

CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Instrument ID: HP5973I Calibration Date: 11/30/2009 Time: 11:32

Lab File ID: 09\I6078.D Init. Calib. Date(s): 11/24/2009 11/25/2009

Heated Purge: (Y/N) N Init. Calib. Times: 21:07 11:27

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	CURVE TYPE	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	THEO CONC	RCVR CONC	%D²	MAX %D²	
1,4-Dioxane	AVRG	0.108	0.11571		6.8	30.0					*
2,2,4-Trimethylpentane	AVRG	0.933	1.0445		12.0	30.0					*
1,3-Dichloropropene (cis)	AVRG	0.333	0.37224		11.7	30.0					*
Trichloroethene	AVRG	0.318	0.32602		2.6	30.0					*
Benzene	AVRG	0.543	0.57176		5.3	30.0					*
Dibromochloromethane	AVRG	0.573	0.58770		2.6	30.0					*
1,3-Dichloropropene (trans)	AVRG	0.337	0.37353		11.0	30.0					*
1,1,2-Trichloroethane	AVRG	0.248	0.25432		2.4	30.0					*
Bromoform	AVRG	0.654	0.66491		1.6	30.0					*
n-Heptane	AVRG	0.395	0.45329		14.8	30.0					*
Methyl isobutyl ketone	AVRG	0.501	0.55692		11.2	30.0					*
Methyl butyl ketone	AVRG	0.495	0.55595		12.3	30.0					*
1,2-Dibromoethane	AVRG	0.434	0.45918		5.8	30.0					*
Tetrachloroethene	AVRG	0.484	0.49880		3.1	30.0					*
1,1,2,2-Tetrachloroethane	AVRG	0.606	0.63129		4.2	30.0					*
Toluene	AVRG	0.453	0.50528		11.6	30.0					*
Chlorobenzene	AVRG	0.769	0.78545		2.2	30.0					*
Ethylbenzene	AVRG	1.044	1.2115		16.1	30.0					*
Styrene	AVRG	0.613	0.69519		13.5	30.0					*
Xylenes (m&p)	AVRG	0.985	1.0967		11.3	30.0					*
Xylenes (o)	AVRG	0.921	1.0652		15.7	30.0					*
2-Chlorotoluene	AVRG	1.003	1.1810		17.8	30.0					*
4-Ethyltoluene	AVRG	1.342	1.6226		20.9	30.0					*
1,3,5-Trimethylbenzene	AVRG	1.131	1.3221		16.9	30.0					*
1,2,4-Trimethylbenzene	AVRG	1.093	1.3020		19.1	30.0					*
1,2,3-Trimethylbenzene	AVRG	0.797	0.95961		20.5	30.0					*
1,3-Dichlorobenzene	AVRG	0.930	0.96972		4.3	30.0					*
1,4-Dichlorobenzene	AVRG	0.898	0.94842		5.7	30.0					*
1,2-Dichlorobenzene	AVRG	0.836	0.88461		5.8	30.0					*
1,3-Hexachlorobutadiene	AVRG	0.715	0.86076		20.4	30.0					*
1,2,4-Trichlorobenzene	AVRG	0.524	0.69393		32.5	30.0					*

AECOM061 V286

7

CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM061

Instrument ID: HP5973I Calibration Date: 11/30/2009 Time: 11:32

Lab File ID: 09\I6078.D Init. Calib. Date(s): 11/24/2009 11/25/2009

Heated Purge: (Y/N) N Init. Calib. Times: 21:07 11:27

GC Column: Rxi-1MS ID: .32 (mm)

COMPOUND	CURVE TYPE	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	THEO CONC	RCVR CONC	%D²	MAX %D²	
Indan	AVRG	0.492	0.57798		17.5	30.0					*
Indene	AVRG	0.720	0.83740		16.3	30.0					*
1,2,4,5-Tetramethylbenzene	AVRG	0.954	1.2631		32.4	30.0					*
Naphthalene	AVRG	1.188	1.6958		42.7	30.0					*
2-Methylnaphthalene	AVRG	0.269	0.35758		32.7	30.0					*
1-Methylnaphthalene	AVRG	0.264	0.31826		20.3	30.0					*
4-Bromofluorobenzene	AVRG	0.772	0.79389		2.9	30.0					*

AECOM061 V287

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM061

Sample ID LFB113009 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 11/30/09 13:15

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ppbv)	SPIKE CONCENTRATION (ppbv)	SPIKE % REC #	QC. LIMITS REC.
2,3-Dimethylpentane	10	0	10.4	104	70-130
2-Methylpentane	10	0	9.32	93	70-130
Freon-114	10	0	10.9	109	70-130
Isopentane	10	0	8.01	80	70-130
Propylene	10	0	9.6	96	70-130
Dichlorodifluoromethane	10	0	11.3	113	70-130
Chloromethane	10	0	10.4	105	70-130
1,3-Butadiene	10	0	10.1	101	70-130
Bromomethane	10	0	10.5	105	70-130
Vinyl chloride	10	0	10.5	105	70-130
Chloroethane	10	0	10.6	106	70-130
Ethanol	10	0	9.01	90	70-130
Isopropanol	10	0	9.19	92	70-130
Methylene chloride	10	0	10.4	104	70-130
Acetone	10	0	10.4	104	70-130
Carbon disulfide	10	0	9.8	98	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	10	0	10.4	104	70-130
1,1-Dichloroethene	10	0	10.1	101	70-130
1,1-Dichloroethane	10	0	10.8	108	70-130
Trichlorofluoromethane	10	0	11.7	117	70-130
n-Hexane	10	0	10.9	109	70-130
Methyl tert-butyl ether	10	0	11.5	115	70-130
1,2-Dichloroethene (trans)	10	0	10.2	102	70-130
1,2-Dichloroethene (cis)	10	0	11.2	112	70-130
Tetrahydrofuran	10	0	11.5	115	70-130
Methyl ethyl ketone	10	0	10.9	109	70-130
Chloroform	10	0	11	111	70-130
1,2-Dichloroethane	10	0	11.4	114	70-130
1,1,1-Trichloroethane	10	0	11	110	70-130
Cyclohexane	10	0	12	121	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 71 outside limits

COMMENTS:

AECOM061 V4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM061

Sample ID LFB113009 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 11/30/09 13:15

Thiophene	10	0	10.5	105	70-130
Carbon tetrachloride	10	0	11	110	70-130
Bromodichloromethane	10	0	10.4	104	70-130
1,2-Dichloropropane	10	0	11.9	119	70-130
1,4-Dioxane	10	0	11.8	119	70-130
2,2,4-Trimethylpentane	10	0	11.7	117	70-130
1,3-Dichloropropene (cis)	10	0	12.3	123	70-130
Trichloroethene	10	0	11	110	70-130
Benzene	10	0	11.3	113	70-130
Dibromochloromethane	10	0	10.5	105	70-130
1,3-Dichloropropene (trans)	10	0	12.1	121	70-130
1,1,2-Trichloroethane	10	0	11.5	115	70-130
Bromoform	10	0	10.3	103	70-130
n-Heptane	10	0	12	120	70-130
Methyl isobutyl ketone	10	0	12.2	122	70-130
Methyl butyl ketone	10	0	11.8	118	70-130
1,2-Dibromoethane	10	0	11.4	114	70-130
Tetrachloroethene	10	0	11	110	70-130
1,1,2,2-Tetrachloroethane	10	0	11.5	115	70-130
Toluene	10	0	12.4	124	70-130
Chlorobenzene	10	0	10.9	109	70-130
Ethylbenzene	10	0	12.9	129	70-130
Styrene	10	0	12	120	70-130
Xylenes (m&p)	20	0	24.4	122	70-130
Xylenes (o)	10	0	13.2	132*	70-130
2-Chlorotoluene	10	0	11.7	117	70-130
4-Ethyltoluene	10	0	12.9	129	70-130
1,3,5-Trimethylbenzene	10	0	12.7	127	70-130
1,2,4-Trimethylbenzene	10	0	12.9	129	70-130
1,2,3-Trimethylbenzene	10	0	11.6	116	70-130
1,3-Dichlorobenzene	10	0	11.2	112	70-130
1,4-Dichlorobenzene	10	0	11.2	112	70-130
1,2-Dichlorobenzene	10	0	11	110	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 71 outside limits

COMMENTS:

AECOM061 V5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM061

Sample ID LFB113009 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 11/30/09 13:15

1,3-Hexachlorobutadiene	10	0	11.2	112	70-130
1,2,4-Trichlorobenzene	10	0	12.4	124	70-130
Indan	10	0	11.4	114	70-130
Indene	10	0	11.1	111	70-130
1,2,4,5-Tetramethylbenzene	10	0	12.1	121	70-130
Naphthalene	10	0	12.1	121	70-130
2-Methylnaphthalene	10	0	10.6	106	70-130
1-Methylnaphthalene	10	0	10.1	101	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 71 outside limits

COMMENTS:

AECOM061 V6

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
October 2015

Data Usability Summary Report
National Grid/Equity Former MGP Site
H2M Labs, Inc.: AECOM111
August 2010 Sampling Event
Final

AECOM Environment

Submitted to:
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60137362-400
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Data Usability Summary Report
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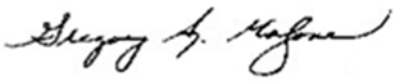
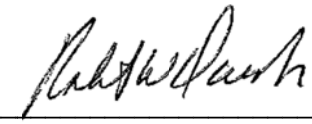
Final



Prepared By
Gregory Malzone, Project Chemist
AECOM
Four Gateway Center
444 Liberty Avenue, Suite 700
Pittsburgh, PA 15222-1220



Reviewed By
Robert Davis, Data Validator/Database Technician
AECOM
1360 Peachtree Street NE, Suite 500
Atlanta, GA 30309

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Appendix C Support Documentation

Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM - Pittsburgh on one data report for the August 2010 air and soil vapor samples collected at the Equity Former MGP Site in Brooklyn, NY. The samples were analyzed by H2M LABS, INC. at 575 Broad Hollow Road, Melville, NY 11747 for volatile organic compounds using USEPA Compendium Method TO-15 and helium using ASTM Method D-1946-03.

The following samples were collected on August 28, 2010 and submitted to ATL on August 29, 2010. The samples were assigned to H2M sample delivery group (SDG) AECOM111.

Table 1
Sample Submittals – August 2010 Equity SVI

Field ID	ATL ID	Matrix	Date Sampled	Canister ID
AMB-1	1010186-001A	Ambient Air	8/28/2010	3415
IA-1	1010186-002A	Indoor Air	8/28/2010	1601
SV-1	1010186-003A	Soil Vapor	8/28/2010	1617

The data were evaluated for conformance to method specifications and qualifiers were applied using the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999, as they apply to the analytical methods employed.

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air and soil vapor) with some qualifications. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable. The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

1010186

Surrogate Recovery/Dilutions (p. V3): Sample IA-1 required analysis at a 20-fold dilution to bring the ethanol and isopropanol concentrations into the calibration range. The ethanol and isopropanol results for sample IA-1 were reported from the 20-fold dilution analysis. All other target compounds for sample IA-1 were reported from the undiluted analysis. The surrogate recoveries for the undiluted and 20-fold dilution analyses were within the quality control limits. No data qualifications were required.

Calibrations (pp. V185, V188): The relative standard deviations for methylene chloride and 2-methylnaphthalene were greater than the method limit of 30% in the September 2, 2010 initial calibration of instrument HP5973I. The positive and non-detect results for associated samples AMB-1, IA-1 and SV-1 were qualified "J/UJ," as estimates, because of the calibration nonconformance.

2.0 Helium

1010186

No data quality issues were noted. No data qualifications were required.

3.0 Notes

The analyte list for this project contained the “non-routine” compounds: isopentane, 2-methyl pentane, 2,3-dimethyl pentane, thiophene, 1,2,3-trimethyl pentane, indan, indene, 1,2,4,5-tetramethyl benzene, naphthalene and 2-methylnaphtalene. An independently-traceable source was not available for these compounds, so they were not spiked into the LCS as an independent (i.e., second source) check of method accuracy.

Tentatively Identified Compounds (TICs) were identified by the laboratory and are included on the Form 1s.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-001A

Sample Information...
Type : Air

Origin:

Client Sample ID. :AMB-1

Collected : 8/28/2010 2:15:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	09/02/2010 2:59 PM
Propylene	0.66	ppbv	J	1	1.14	µg/m³	09/02/2010 2:59 PM
Dichlorodifluoromethane	0.480	ppbv		1	2.37	µg/m³	09/02/2010 2:59 PM
Chloromethane	0.420	ppbv		1	0.867	µg/m³	09/02/2010 2:59 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	09/02/2010 2:59 PM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	09/02/2010 2:59 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	09/02/2010 2:59 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	09/02/2010 2:59 PM
Ethanol	37.5	ppbv		1	70.7	µg/m³	09/02/2010 2:59 PM
Isopropanol	3.82	ppbv		1	9.39	µg/m³	09/02/2010 2:59 PM
Methylene chloride	2.52	ppbv	J	1	8.75	µg/m³	09/02/2010 2:59 PM
Acetone	21.1	ppbv		1	50.1	µg/m³	09/02/2010 2:59 PM
Isopentane	11.5	ppbv		1	33.9	µg/m³	09/02/2010 2:59 PM
Carbon disulfide	0.21	ppbv	J	1	0.654	µg/m³	09/02/2010 2:59 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 2:59 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 2:59 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 2:59 PM
Trichlorofluoromethane	0.500	ppbv		1	2.81	µg/m³	09/02/2010 2:59 PM
n-Hexane	0.63	ppbv	J	1	2.22	µg/m³	09/02/2010 2:59 PM
2-Methylpentane	0.63	ppbv	J	1	2.22	µg/m³	09/02/2010 2:59 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 2:59 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	09/02/2010 2:59 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 2:59 PM
Tetrahydrofuran	0.16	ppbv	J	1	0.472	µg/m³	09/02/2010 2:59 PM
Methyl ethyl ketone	2.83	ppbv		1	8.35	µg/m³	09/02/2010 2:59 PM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	09/02/2010 2:59 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 2:59 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	09/02/2010 2:59 PM
Cyclohexane	0.20	ppbv	J	1	0.688	µg/m³	09/02/2010 2:59 PM
2,3-Dimethylpentane	0.22	ppbv	J	1	0.902	µg/m³	09/02/2010 2:59 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	09/02/2010 2:59 PM
Carbon tetrachloride	11.5	ppbv		1	72.3	µg/m³	09/02/2010 2:59 PM
2,2,4-Trimethylpentane	0.18	ppbv	J	1	0.841	µg/m³	09/02/2010 2:59 PM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	09/02/2010 2:59 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	09/02/2010 2:59 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V22

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-001A

Client Sample ID. :AMB-1

Sample Information...
Type : Air

Origin:

Collected : 8/28/2010 2:15:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 2:59 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 2:59 PM
Trichloroethene	1.18	ppbv		1	6.34	µg/m³	09/02/2010 2:59 PM
Benzene	0.220	ppbv		1	0.703	µg/m³	09/02/2010 2:59 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	09/02/2010 2:59 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 2:59 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	09/02/2010 2:59 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	09/02/2010 2:59 PM
n-Heptane	0.970	ppbv		1	3.98	µg/m³	09/02/2010 2:59 PM
Methyl isobutyl ketone	1.11	ppbv		1	4.55	µg/m³	09/02/2010 2:59 PM
Methyl butyl ketone	0.16	ppbv	J	1	0.655	µg/m³	09/02/2010 2:59 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 2:59 PM
Tetrachloroethene	< 0.160	ppbv		1	< 1.08	µg/m³	09/02/2010 2:59 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	09/02/2010 2:59 PM
Toluene	13.5	ppbv		1	50.9	µg/m³	09/02/2010 2:59 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	09/02/2010 2:59 PM
Ethylbenzene	1.56	ppbv		1	6.78	µg/m³	09/02/2010 2:59 PM
Styrene	1.02	ppbv		1	4.34	µg/m³	09/02/2010 2:59 PM
Xylenes (m&p)	5.05	ppbv		1	21.9	µg/m³	09/02/2010 2:59 PM
Xylenes (o)	1.54	ppbv		1	6.69	µg/m³	09/02/2010 2:59 PM
4-Ethyltoluene	0.66	ppbv	J	1	3.24	µg/m³	09/02/2010 2:59 PM
1,3,5-Trimethylbenzene	0.790	ppbv		1	3.88	µg/m³	09/02/2010 2:59 PM
1,2,4-Trimethylbenzene	2.34	ppbv		1	11.5	µg/m³	09/02/2010 2:59 PM
1,2,3-Trimethylbenzene	0.820	ppbv		1	4.03	µg/m³	09/02/2010 2:59 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 2:59 PM
1,4-Dichlorobenzene	0.620	ppbv		1	3.73	µg/m³	09/02/2010 2:59 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 2:59 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	09/02/2010 2:59 PM
Indan	0.30	ppbv	J	1	1.45	µg/m³	09/02/2010 2:59 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	09/02/2010 2:59 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv		1	< 4.39	µg/m³	09/02/2010 2:59 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	09/02/2010 2:59 PM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	09/02/2010 2:59 PM
Naphthalene	0.19	ppbv	J	1	0.996	µg/m³	09/02/2010 2:59 PM
2-Methylnaphthalene	< 0.800	ppbv	UJ	1	< 4.65	µg/m³	09/02/2010 2:59 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V23

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-001A

Client Sample ID. :AMB-1

Collected :8/28/2010 2:15:00 PM
Received :8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Sample Information...
Type : Air

Origin:

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	09/02/2010 2:59 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V24

1F

EPA SAMPLE NO.

AMB-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Matrix: (soil/water) AIR Lab Sample ID: 1010186-001A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 10\I6706.D

Level: (low/med) LOW Date Received: 08/31/10

% Moisture: not dec. Date Analyzed: 09/02/10

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	(DEL) Alkane: Branched (3.15)	3.15	2.50	J
2. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.01	6.10	JN
3.	(DEL) Alkane: Straight-Chain (11.78)	11.78	7.80	J
4.	(DEL) Alkane: Straight-Chain (24.21)	24.21	6.20	J
5.	unknown (24.76)	24.76	2.00	J
6.	unknown hydrocarbon	24.93	5.40	J
7.	Pinene (isomer)	25.04	4.00	J
8.	(DEL) Alkane: Cyclic (25.54)	25.54	3.00	J
9.	unknown (25.82)	25.82	2.20	J
10.	(DEL) Alkane: Straight-Chain (26.07)	26.07	12.9	J
11.	(DEL) Alkane: Branched (26.48)	26.48	3.30	J
12.	(DEL) Alkane: Branched (26.57)	26.57	3.80	J
13.	(DEL) Alkane: Cyclic (26.73)	26.73	3.80	J
14.	(DEL) Alkane: Branched (26.83)	26.83	4.00	J
15.	(DEL) Alkane: Branched (27.12)	27.12	3.70	J
16.	(DEL) Alkane: Branched (27.19)	27.19	5.00	J
17.	(DEL) Alkane: Branched (27.41)	27.41	3.50	J
18.	(DEL) Alkane: Straight-Chain (27.6)	27.60	8.60	J

AECOM111 V25

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. : 1010186-002A

Sample Information...
Type : Air

Origin:

Client Sample ID. : IA-1

Collected : 8/28/2010 2:13:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	09/02/2010 3:47 PM
Freon-114	< 3.20	ppbv	D	20	< 22.4	µg/m³	09/03/2010 8:56 AM
Propylene	0.930	ppbv		1	1.60	µg/m³	09/02/2010 3:47 PM
Propylene	< 16.0	ppbv	D	20	< 27.5	µg/m³	09/03/2010 8:56 AM
Dichlorodifluoromethane	0.630	ppbv		1	3.12	µg/m³	09/02/2010 3:47 PM
Dichlorodifluoromethane	< 3.20	ppbv	D	20	< 15.8	µg/m³	09/03/2010 8:56 AM
Chloromethane	0.720	ppbv		1	1.49	µg/m³	09/02/2010 3:47 PM
Chloromethane	< 3.20	ppbv	D	20	< 6.61	µg/m³	09/03/2010 8:56 AM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	09/02/2010 3:47 PM
1,3-Butadiene	< 16.0	ppbv	D	20	< 35.4	µg/m³	09/03/2010 8:56 AM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	09/02/2010 3:47 PM
Bromomethane	< 3.20	ppbv	D	20	< 12.4	µg/m³	09/03/2010 8:56 AM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	09/02/2010 3:47 PM
Vinyl chloride	< 3.20	ppbv	D	20	< 8.18	µg/m³	09/03/2010 8:56 AM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	09/02/2010 3:47 PM
Chloroethane	< 3.20	ppbv	D	20	< 8.44	µg/m³	09/03/2010 8:56 AM
Ethanol	489	ppbv	E	1	921	µg/m³	09/02/2010 3:47 PM
Ethanol	663	ppbv	D	20	1250	µg/m³	09/03/2010 8:56 AM
Isopropanol	41.4	ppbv	E	1	102	µg/m³	09/02/2010 3:47 PM
Isopropanol	55.6	ppbv	D	20	137	µg/m³	09/03/2010 8:56 AM
Methylene chloride	2.51	ppbv	J	1	8.72	µg/m³	09/02/2010 3:47 PM
Methylene chloride	6.40	ppbv	D	20	22.2	µg/m³	09/03/2010 8:56 AM
Acetone	38.1	ppbv		1	90.5	µg/m³	09/02/2010 3:47 PM
Acetone	47.6	ppbv	D	20	113	µg/m³	09/03/2010 8:56 AM
Isopentane	15.8	ppbv		1	46.6	µg/m³	09/02/2010 3:47 PM
Isopentane	21.8	ppbv	D	20	64.3	µg/m³	09/03/2010 8:56 AM
Carbon disulfide	0.46	ppbv	J	1	1.43	µg/m³	09/02/2010 3:47 PM
Carbon disulfide	< 16.0	ppbv	D	20	< 49.8	µg/m³	09/03/2010 8:56 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 3:47 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 3.20	ppbv	D	20	< 24.5	µg/m³	09/03/2010 8:56 AM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 3:47 PM
1,1-Dichloroethene	< 3.20	ppbv	D	20	< 12.7	µg/m³	09/03/2010 8:56 AM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 3:47 PM
1,1-Dichloroethane	< 3.20	ppbv	D	20	< 13.0	µg/m³	09/03/2010 8:56 AM
Trichlorofluoromethane	0.930	ppbv		1	5.23	µg/m³	09/02/2010 3:47 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V68

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-002A

Sample Information...
Type : Air

Origin:

Client Sample ID. :IA-1

Collected :8/28/2010 2:13:00 PM
Received :8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Trichlorofluoromethane	< 3.20	ppbv	D	20	< 18.0	µg/m³	09/03/2010 8:56 AM
n-Hexane	0.73	ppbv	J	1	2.57	µg/m³	09/02/2010 3:47 PM
n-Hexane	< 16.0	ppbv	D	20	< 56.4	µg/m³	09/03/2010 8:56 AM
2-Methylpentane	0.67	ppbv	J	1	2.36	µg/m³	09/02/2010 3:47 PM
2-Methylpentane	< 16.0	ppbv	D	20	< 56.4	µg/m³	09/03/2010 8:56 AM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 3:47 PM
Methyl tert-butyl ether	< 16.0	ppbv	D	20	< 57.7	µg/m³	09/03/2010 8:56 AM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	09/02/2010 3:47 PM
1,2-Dichloroethene (trans)	< 16.0	ppbv	D	20	< 63.4	µg/m³	09/03/2010 8:56 AM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 3:47 PM
1,2-Dichloroethene (cis)	< 3.20	ppbv	D	20	< 12.7	µg/m³	09/03/2010 8:56 AM
Tetrahydrofuran	0.69	ppbv	J	1	2.04	µg/m³	09/02/2010 3:47 PM
Tetrahydrofuran	< 16.0	ppbv	D	20	< 47.2	µg/m³	09/03/2010 8:56 AM
Methyl ethyl ketone	5.10	ppbv		1	15.0	µg/m³	09/02/2010 3:47 PM
Methyl ethyl ketone	6.6	ppbv	JD	20	19.5	µg/m³	09/03/2010 8:56 AM
Chloroform	0.430	ppbv		1	2.10	µg/m³	09/02/2010 3:47 PM
Chloroform	< 3.20	ppbv	D	20	< 15.6	µg/m³	09/03/2010 8:56 AM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 3:47 PM
1,2-Dichloroethane	< 3.20	ppbv	D	20	< 13.0	µg/m³	09/03/2010 8:56 AM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	09/02/2010 3:47 PM
1,1,1-Trichloroethane	< 3.20	ppbv	D	20	< 17.5	µg/m³	09/03/2010 8:56 AM
Cyclohexane	0.940	ppbv		1	3.24	µg/m³	09/02/2010 3:47 PM
Cyclohexane	< 16.0	ppbv	D	20	< 55.1	µg/m³	09/03/2010 8:56 AM
2,3-Dimethylpentane	0.25	ppbv	J	1	1.02	µg/m³	09/02/2010 3:47 PM
2,3-Dimethylpentane	< 16.0	ppbv	D	20	< 65.6	µg/m³	09/03/2010 8:56 AM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	09/02/2010 3:47 PM
Thiophene	< 16.0	ppbv	D	20	< 55.1	µg/m³	09/03/2010 8:56 AM
Carbon tetrachloride	6.85	ppbv		1	43.1	µg/m³	09/02/2010 3:47 PM
Carbon tetrachloride	9.60	ppbv	D	20	60.4	µg/m³	09/03/2010 8:56 AM
2,2,4-Trimethylpentane	0.31	ppbv	J	1	1.45	µg/m³	09/02/2010 3:47 PM
2,2,4-Trimethylpentane	< 16.0	ppbv	D	20	< 74.7	µg/m³	09/03/2010 8:56 AM
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	09/02/2010 3:47 PM
Bromodichloromethane	< 16.0	ppbv	D	20	< 107	µg/m³	09/03/2010 8:56 AM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	09/02/2010 3:47 PM
1,2-Dichloropropane	< 3.20	ppbv	D	20	< 14.8	µg/m³	09/03/2010 8:56 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V69

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-002A

Client Sample ID. :IA-1

Sample Information...
Type : Air

Origin:

Collected : 8/28/2010 2:13:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 3:47 PM
1,4-Dioxane	< 16.0	ppbv	D	20	< 57.7	µg/m³	09/03/2010 8:56 AM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 3:47 PM
1,3-Dichloropropene (cis)	< 3.20	ppbv	D	20	< 14.5	µg/m³	09/03/2010 8:56 AM
Trichloroethene	1.10	ppbv		1	5.91	µg/m³	09/02/2010 3:47 PM
Trichloroethene	< 3.20	ppbv	D	20	< 17.2	µg/m³	09/03/2010 8:56 AM
Benzene	0.350	ppbv		1	1.12	µg/m³	09/02/2010 3:47 PM
Benzene	< 3.20	ppbv	D	20	< 10.2	µg/m³	09/03/2010 8:56 AM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	09/02/2010 3:47 PM
Dibromochloromethane	< 16.0	ppbv	D	20	< 136	µg/m³	09/03/2010 8:56 AM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 3:47 PM
1,3-Dichloropropene (trans)	< 3.20	ppbv	D	20	< 14.5	µg/m³	09/03/2010 8:56 AM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	09/02/2010 3:47 PM
1,1,2-Trichloroethane	< 3.20	ppbv	D	20	< 17.5	µg/m³	09/03/2010 8:56 AM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	09/02/2010 3:47 PM
Bromoform	< 16.0	ppbv	D	20	< 165	µg/m³	09/03/2010 8:56 AM
n-Heptane	0.970	ppbv		1	3.98	µg/m³	09/02/2010 3:47 PM
n-Heptane	< 16.0	ppbv	D	20	< 65.6	µg/m³	09/03/2010 8:56 AM
Methyl isobutyl ketone	1.08	ppbv		1	4.43	µg/m³	09/02/2010 3:47 PM
Methyl isobutyl ketone	< 16.0	ppbv	D	20	< 65.6	µg/m³	09/03/2010 8:56 AM
Methyl butyl ketone	0.21	ppbv	J	1	0.860	µg/m³	09/02/2010 3:47 PM
Methyl butyl ketone	< 16.0	ppbv	D	20	< 65.5	µg/m³	09/03/2010 8:56 AM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 3:47 PM
1,2-Dibromoethane	< 3.20	ppbv	D	20	< 24.6	µg/m³	09/03/2010 8:56 AM
Tetrachloroethene	0.510	ppbv		1	3.46	µg/m³	09/02/2010 3:47 PM
Tetrachloroethene	< 3.20	ppbv	D	20	< 21.7	µg/m³	09/03/2010 8:56 AM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	09/02/2010 3:47 PM
1,1,2,2-Tetrachloroethane	< 3.20	ppbv	D	20	< 22.0	µg/m³	09/03/2010 8:56 AM
Toluene	14.2	ppbv		1	53.5	µg/m³	09/02/2010 3:47 PM
Toluene	18.6	ppbv	D	20	70.1	µg/m³	09/03/2010 8:56 AM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	09/02/2010 3:47 PM
Chlorobenzene	< 3.20	ppbv	D	20	< 14.7	µg/m³	09/03/2010 8:56 AM
Ethylbenzene	2.71	ppbv		1	11.8	µg/m³	09/02/2010 3:47 PM
Ethylbenzene	3.80	ppbv	D	20	16.5	µg/m³	09/03/2010 8:56 AM
Styrene	1.28	ppbv		1	5.45	µg/m³	09/02/2010 3:47 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V70

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-002A

Client Sample ID. :IA-1

Sample Information...
Type : Air

Origin:

Collected : 8/28/2010 2:13:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Styrene	< 3.20	ppbv	D	20	< 13.6	µg/m³	09/03/2010 8:56 AM
Xylenes (m&p)	9.18	ppbv		1	39.9	µg/m³	09/02/2010 3:47 PM
Xylenes (m&p)	12.2	ppbv	D	20	53.0	µg/m³	09/03/2010 8:56 AM
Xylenes (o)	3.19	ppbv		1	13.9	µg/m³	09/02/2010 3:47 PM
Xylenes (o)	4.40	ppbv	D	20	19.1	µg/m³	09/03/2010 8:56 AM
4-Ethyltoluene	4.59	ppbv		1	22.6	µg/m³	09/02/2010 3:47 PM
4-Ethyltoluene	6.4	ppbv	JD	20	31.5	µg/m³	09/03/2010 8:56 AM
1,3,5-Trimethylbenzene	6.42	ppbv		1	31.6	µg/m³	09/02/2010 3:47 PM
1,3,5-Trimethylbenzene	8.20	ppbv	D	20	40.3	µg/m³	09/03/2010 8:56 AM
1,2,4-Trimethylbenzene	19.7	ppbv		1	96.8	µg/m³	09/02/2010 3:47 PM
1,2,4-Trimethylbenzene	22.6	ppbv	D	20	111	µg/m³	09/03/2010 8:56 AM
1,2,3-Trimethylbenzene	4.46	ppbv		1	21.9	µg/m³	09/02/2010 3:47 PM
1,2,3-Trimethylbenzene	4.6	ppbv	JD	20	22.6	µg/m³	09/03/2010 8:56 AM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 3:47 PM
1,3-Dichlorobenzene	< 3.20	ppbv	D	20	< 19.2	µg/m³	09/03/2010 8:56 AM
1,4-Dichlorobenzene	0.720	ppbv		1	4.33	µg/m³	09/02/2010 3:47 PM
1,4-Dichlorobenzene	< 3.20	ppbv	D	20	< 19.2	µg/m³	09/03/2010 8:56 AM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 3:47 PM
1,2-Dichlorobenzene	< 3.20	ppbv	D	20	< 19.2	µg/m³	09/03/2010 8:56 AM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	09/02/2010 3:47 PM
Benzyl chloride	< 3.20	ppbv	D	20	< 16.6	µg/m³	09/03/2010 8:56 AM
Indan	2.61	ppbv		1	12.6	µg/m³	09/02/2010 3:47 PM
Indan	< 16.0	ppbv	D	20	< 77.3	µg/m³	09/03/2010 8:56 AM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	09/02/2010 3:47 PM
Indene	< 16.0	ppbv	D	20	< 76.0	µg/m³	09/03/2010 8:56 AM
1,2,4,5-Tetramethylbenzene	0.22	ppbv	J	1	1.21	µg/m³	09/02/2010 3:47 PM
1,2,4,5-Tetramethylbenzene	< 16.0	ppbv	D	20	< 87.8	µg/m³	09/03/2010 8:56 AM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	09/02/2010 3:47 PM
1,3-Hexachlorobutadiene	< 16.0	ppbv	D	20	< 171	µg/m³	09/03/2010 8:56 AM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	09/02/2010 3:47 PM
1,2,4-Trichlorobenzene	< 16.0	ppbv	D	20	< 119	µg/m³	09/03/2010 8:56 AM
Naphthalene	0.56	ppbv	J	1	2.94	µg/m³	09/02/2010 3:47 PM
Naphthalene	< 16.0	ppbv	D	20	< 83.9	µg/m³	09/03/2010 8:56 AM
2-Methylnaphthalene	2.18	ppbv	J	1	12.7	µg/m³	09/02/2010 3:47 PM
2-Methylnaphthalene	< 16.0	ppbv	D	20	< 93.1	µg/m³	09/03/2010 8:56 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V71

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. : 1010186-002A

Sample Information...
Type : Air

Origin:

Client Sample ID. : IA-1

Collected : 8/28/2010 2:13:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	1.45	ppbv		1	8.43	µg/m³	09/02/2010 3:47 PM
1-Methylnaphthalene	< 16.0	ppbv	D	20	< 93.1	µg/m³	09/03/2010 8:56 AM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V72

1F

EPA SAMPLE NO.

IA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Matrix: (soil/water) AIR Lab Sample ID: 1010186-002A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 10\I6707.D

Level: (low/med) LOW Date Received: 08/31/10

% Moisture: not dec. Date Analyzed: 09/02/10

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 6 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000075-37-6	Ethane, 1,1-difluoro-	2.86	16.9	JN
2. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.03	28.7	JN
3.	(DEL) Alkane: Branched (4.51)	4.51	11.2	J
4.	(DEL) Alkane: Straight-Chain (11.79)	11.79	17.9	J
5.	(DEL) Alkane: Straight-Chain (24.22)	24.22	5.70	J
6.	unknown hydrocarbon	24.94	5.50	J
7.	Pinene (isomer) (25.04)	25.04	6.60	J
8.	(DEL) Alkane: Branched (25.52)	25.52	5.00	J
9.	c3-subs_benzene	25.66	6.00	J
10.	Pinene (isomer) (25.82)	25.82	4.90	J
11.	(DEL) Alkane: Straight-Chain (26.08)	26.08	14.0	J
12.	(DEL) Alkane: Cyclic	26.74	5.40	J
13.	(DEL) Alkane: Branched (26.83)	26.83	8.70	J
14.	c4-subs_benzene	26.93	4.00	J
15.	(DEL) Alkane: Branched (27.13)	27.13	7.00	J
16.	(DEL) Alkane: Branched (27.19)	27.19	9.30	J
17.	(DEL) Alkane: Branched (27.41)	27.41	6.20	J
18.	(DEL) Alkane: Straight-Chain (27.61)	27.61	10.3	J

AECOM111 V73

1F

EPA SAMPLE NO.

IA-1DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Matrix: (soil/water) AIR Lab Sample ID: 1010186-002ADL

Sample wt/vol: 400 (g/mL) ML Lab File ID: 10\I6717.D

Level: (low/med) LOW Date Received: 08/31/10

% Moisture: not dec. Date Analyzed: 09/03/10

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 20.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000075-37-6	Ethane, 1,1-difluoro-	2.88	28.0	JND
2.	000075-68-3	Ethane, 1-chloro-1,1-difluoro-	4.05	40.0	JND
3.		(DEL) Alkane: Straight-Chain	11.81	28.0	JD
4.		Limonene(isomer)	26.62	60.0	JD

AECOM111 V74

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. : 1010186-003A

Sample Information...
Type : Air

Origin:

Client Sample ID. : SV-1

Collected : 8/28/2010 2:14:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	09/02/2010 4:36 PM
Propylene	0.53	ppbv	J	1	0.912	µg/m³	09/02/2010 4:36 PM
Dichlorodifluoromethane	2.12	ppbv		1	10.5	µg/m³	09/02/2010 4:36 PM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	09/02/2010 4:36 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	09/02/2010 4:36 PM
Bromomethane	< 0.160	ppbv		1	< 0.621	µg/m³	09/02/2010 4:36 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	09/02/2010 4:36 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	09/02/2010 4:36 PM
Ethanol	35.2	ppbv		1	66.3	µg/m³	09/02/2010 4:36 PM
Isopropanol	4.04	ppbv		1	9.93	µg/m³	09/02/2010 4:36 PM
Methylene chloride	1.84	ppbv	J	1	6.39	µg/m³	09/02/2010 4:36 PM
Acetone	7.22	ppbv		1	17.2	µg/m³	09/02/2010 4:36 PM
Isopentane	3.83	ppbv		1	11.3	µg/m³	09/02/2010 4:36 PM
Carbon disulfide	2.42	ppbv		1	7.54	µg/m³	09/02/2010 4:36 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 4:36 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 4:36 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 4:36 PM
Trichlorofluoromethane	4.50	ppbv		1	25.3	µg/m³	09/02/2010 4:36 PM
n-Hexane	0.27	ppbv	J	1	0.952	µg/m³	09/02/2010 4:36 PM
2-Methylpentane	0.16	ppbv	J	1	0.564	µg/m³	09/02/2010 4:36 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 4:36 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	09/02/2010 4:36 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	09/02/2010 4:36 PM
Tetrahydrofuran	0.16	ppbv	J	1	0.472	µg/m³	09/02/2010 4:36 PM
Methyl ethyl ketone	1.61	ppbv		1	4.75	µg/m³	09/02/2010 4:36 PM
Chloroform	4.82	ppbv		1	23.5	µg/m³	09/02/2010 4:36 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	09/02/2010 4:36 PM
1,1,1-Trichloroethane	1.42	ppbv		1	7.75	µg/m³	09/02/2010 4:36 PM
Cyclohexane	0.15	ppbv	J	1	0.516	µg/m³	09/02/2010 4:36 PM
2,3-Dimethylpentane	< 0.800	ppbv		1	< 3.28	µg/m³	09/02/2010 4:36 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	09/02/2010 4:36 PM
Carbon tetrachloride	2.46	ppbv		1	15.5	µg/m³	09/02/2010 4:36 PM
2,2,4-Trimethylpentane	< 0.800	ppbv		1	< 3.74	µg/m³	09/02/2010 4:36 PM
Bromodichloromethane	0.48	ppbv	J	1	3.22	µg/m³	09/02/2010 4:36 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	09/02/2010 4:36 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V137

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-003A

Sample Information...
Type : Air

Origin:

Client Sample ID. : SV-1

Collected : 8/28/2010 2:14:00 PM
Received : 8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	09/02/2010 4:36 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 4:36 PM
Trichloroethene	0.600	ppbv		1	3.22	µg/m³	09/02/2010 4:36 PM
Benzene	< 0.160	ppbv		1	< 0.511	µg/m³	09/02/2010 4:36 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.82	µg/m³	09/02/2010 4:36 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	09/02/2010 4:36 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	09/02/2010 4:36 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	09/02/2010 4:36 PM
n-Heptane	0.25	ppbv	J	1	1.02	µg/m³	09/02/2010 4:36 PM
Methyl isobutyl ketone	0.27	ppbv	J	1	1.11	µg/m³	09/02/2010 4:36 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	09/02/2010 4:36 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	09/02/2010 4:36 PM
Tetrachloroethene	20.4	ppbv		1	138	µg/m³	09/02/2010 4:36 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	09/02/2010 4:36 PM
Toluene	3.98	ppbv		1	15.0	µg/m³	09/02/2010 4:36 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	09/02/2010 4:36 PM
Ethylbenzene	0.700	ppbv		1	3.04	µg/m³	09/02/2010 4:36 PM
Styrene	0.230	ppbv		1	0.979	µg/m³	09/02/2010 4:36 PM
Xylenes (m&p)	1.79	ppbv		1	7.77	µg/m³	09/02/2010 4:36 PM
Xylenes (o)	0.780	ppbv		1	3.39	µg/m³	09/02/2010 4:36 PM
4-Ethyltoluene	0.57	ppbv	J	1	2.80	µg/m³	09/02/2010 4:36 PM
1,3,5-Trimethylbenzene	0.720	ppbv		1	3.54	µg/m³	09/02/2010 4:36 PM
1,2,4-Trimethylbenzene	2.38	ppbv		1	11.7	µg/m³	09/02/2010 4:36 PM
1,2,3-Trimethylbenzene	1.08	ppbv		1	5.31	µg/m³	09/02/2010 4:36 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 4:36 PM
1,4-Dichlorobenzene	0.220	ppbv		1	1.32	µg/m³	09/02/2010 4:36 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	09/02/2010 4:36 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	09/02/2010 4:36 PM
Indan	0.40	ppbv	J	1	1.93	µg/m³	09/02/2010 4:36 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	09/02/2010 4:36 PM
1,2,4,5-Tetramethylbenzene	0.16	ppbv	J	1	0.878	µg/m³	09/02/2010 4:36 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	09/02/2010 4:36 PM
1,2,4-Trichlorobenzene	< 0.800	ppbv		1	< 5.94	µg/m³	09/02/2010 4:36 PM
Naphthalene	0.22	ppbv	J	1	1.15	µg/m³	09/02/2010 4:36 PM
2-Methylnaphthalene	0.30	ppbv	J	1	1.74	µg/m³	09/02/2010 4:36 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V138

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

AECOM-Mass
2 Technology Park Drive
Westford, MA 018863140
Attn To : Jennifer Pfeiffer

Lab No. :1010186-003A

Client Sample ID. :SV-1

Sample Information...
Type : Air

Origin:

Collected :8/28/2010 2:14:00 PM
Received :8/31/2010 9:45:00 AM
Collected By : AECOM99
Copy : Original
CC

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1-Methylnaphthalene	0.27	ppbv	J	1	1.57	µg/m³	09/02/2010 4:36 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding time

Joann M. Slavin

Laboratory Manager

Date Reported :

AECOM111 V139

1F

EPA SAMPLE NO.

SV-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Matrix: (soil/water) AIR Lab Sample ID: 1010186-003A

Sample wt/vol: 400 (g/mL) ML Lab File ID: 10\I6708.D

Level: (low/med) LOW Date Received: 08/31/10

% Moisture: not dec. Date Analyzed: 09/02/10

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) ppbv

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000382-24-1	Propane, 1,1,1,3,3,3-hexafluoro-2-t	2.86	21.8	JN
2. 000075-68-3	Ethane, 1-chloro-1,1-difluoro-	3.99	10.9	JN
3. 000335-57-9	Heptane, hexadecafluoro-	7.17	13.6	JN
4.	unknown freon (7.63)	7.63	7.4	J
5.	unknown freon (8.64)	8.64	35.7	J
6.	unknown freon (8.81)	8.81	18.4	J
7.	unknown	10.52	15.4	J
8. 001717-00-6	1,1-Dichloro-1-fluoroethane	11.14	5.30	JN
9.	(DEL) Alkane: Straight-Chain	11.79	3.90	J
10.	(DEL) Alkane: Branched (26.09)	26.09	3.80	J
11.	(DEL) Alkane: Branched (26.57)	26.57	4.20	J
12.	(DEL) Alkane: Branched (26.84)	26.84	14.6	J
13.	(DEL) Alkane: Branched (27.07)	27.07	3.20	J
14.	(DEL) Alkane: Branched (27.14)	27.14	11.1	J
15.	(DEL) Alkane: Branched (27.2)	27.20	9.30	J
16.	(DEL) Alkane: Branched (27.42)	27.42	8.20	J
17.	(DEL) Alkane: Branched (27.61)	27.61	5.40	J
18.	(DEL) Alkane: Branched (27.69)	27.69	4.00	J

AECOM111 V140

Form 1

CLIENT SAMPLE NO.

SV-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Matrix: (soil/water) Air Lab Sample ID: 1010186-003A

Sample wt/vol: (g/mL) ML Lab File ID: a00004.raw

Level: (low/med) LOW Date Received: 8/31/2010

GC Column: RT-MSIEVE5A ID: 0.53 (mm) Date Analyzed: 9/9/2010

Dilution Factor: 2.00

Inj. Vol: 1000 uL

JSB 9/15/10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	%	Q
	Helium	0.2	U

Appendix C

Support Documentation

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE(S) RECEIVED: 8/31/10
SDG #: AECOM111

For Sample(s):

AMB-1
IA-1
SV-1

The above air sample(s) were was/were analyzed for a select list of volatile organic analytes by EPA method TO-15 according to the requirements of the NYSDEC ASP with category B deliverables.

All QC data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis.

No matrix spike/matrix spike duplicate was requested. Two lab fortified blanks (LFB) were analyzed and indicates good method efficiency for all 59 analytes included in the spike with the exception of a low recovery for 1,2,4-trichlorobenzene in LFB090210. This LFB was analyzed with the dilution of sample 1A-1, and 1,2,4-trichlorobenzene was not an analyte that required dilution. No recoveries were reportable for the LFB analyses for the following analytes, because the mix used did not contain these compounds: Isopentane, 2-methyl pentane, 2,3-dimethyl pentane, thiophene, 1,2,3-trimethyl pentane, indan, indene, 1,2,4,5-tetramethyul benzene, naphthalene, 2-methylnaphtalene. Method efficiency (accuracy) result can be taken from the continuous calibration check (CCV) data on form 7, because the procedure of analysis is the same. All analytes above showed a recovery between 70 and 130%.

Sample 1A-1 was reanalyzed at a dilution because a targeted analyte exceeded the calibration range. Both sets of data are reported.

%RPD for two analytes in the initial calibration exceeded 30% but were below 40%. One of the analytes, 2-methylnaphthalene was not found, and results for methylene chloride below the second calibration level of 1.8 ppv are regarded estimated. (The calibration at the low level of 0.18 was affected by contribution of contamination.)

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: September 20, 2010

****
* *
* *
****
Ursula Middel
Technical Manager

AECOM111 A4

H2M LABS, INC.

SDG NARRATIVE FOR HELIUM ANALYSES
SAMPLE(S) RECEIVED: 8/31/10
SDG #: AECOM111

For Sample(s):

SV-1

The above sample(s) were was/were analyzed for helium by GC-TCD with nitrogen as carrier gas according to method ASTM-D1945-03.

The sample was collected in a canister for TO-15 analysis. The canister was pressurized, which resulted in a 1:2 "dilution".

No matrix spike/matrix spike duplicate was analyzed. Results for a lab fortified blank indicate good method efficiency.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: September 15, 2010

****
* *
* *
****

Ursula Middel
Technical Manager
+

AECOM111 A3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Level: (low/med) LOW

	EPA SAMPLE NO.	1 BFB#			OTHER	TOT OUT
01	VBLK0901010	101				0
02	LFB0901010	106				0
03	AMB-1	109				0
04	IA-1	105				0
05	SV-1	98				0
06	VBLK0902010	97				0
07	IA-1DL	99				0
08	LFB090210	100				0

QC Limit

1 BFB = 4-Bromofluorobenzene (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

H2M LABS, INC.

735 Broad Hollow Rd., Melville, NY 11747
Tel: (631) 694-3040 Fax:(631) 420-8436

0349

AIR CANISTER CHAIN OF CUSTODY

Client Contact Information	Project Manager: Pete Cox	CLIENT:	H2M SDG NO.: AECOM111
Company: AECOM Environment	Phone: 978-764-4257	Samplers Name(s) Jesse Lloyd	C.O.# 244
Address: 1 World Financial Center	Site Contact: Jesse Lloyd		1 gauge
City/State/Zip New York/NY/10281	607-351-9543		
Phone: 1914 227 3729			
FAX:			
Project Name: Equity, SVI	Analysis Turnaround Time		
Client Site: National Grid, Brooklyn, NY	Standard (Specify) Standard		
PO #	Rush (Specify)		

Sample Identification	Date Collected	Time Collected	Temp. (F)	Canister Pressure FIELD Initial("Hg) (Start)	FIELD ("Hg) / PSI (Stop)	LAB Outgoing ("Hg) (Lab)	LAB Incoming ("Hg) (Lab)	Flow Controller ID	Canister ID	Can Size (L)	LAB ID No.	TO-15	OTHER	MGP indicator HELIUM	Indoor / Ambient Air	Soil Gas	Source Level
IA-1	8-28-10	1413	80	-30	-8/2215	<30	-8	00908	1601	6	1010186-002	X		X			
						<30			1612								
SV-1	8-28-10	1414	80	-30	-8/2215	<30	-8	20905	1617		-003	X		X	X		
AMB-1	8-28-10	1415	79	-30	-8/2235	<30	-8	01023	3415		-001	X		X			

Samples were: FEDEX # 8673 6890 1637/1638
Shipped X or Hand Delivered Airbill# 4
✓ 2. Ambient or Chilled Temp
COC Tape was:
✓ Present on outer package Y N X
✓ Unbroken on outer package: Y N

Pressure	Ambient	Maximum	Minimum
Start			
Stop			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum
Start			
Stop			

Special Instructions/QC Requirements & Comments:
See past sampling events from this site For specific compound analyses Please call Jen Pfiffer (AECOM) 914-227-3

Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Jesse Lloyd	8-29-10 / 1200		8/31/10 9:45
Relinquished by:	Date/Time:	Received by:	Date/Time:

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

AECOM111 A6

*Notify lab if equipment is damaged upon receipt. Client is responsible for damage to equipement

AECOM 111

H2M LABS, INC.

Sample Receipt Checklist

Client Name AECOM | Date and Time Received: 8/31/2010 9:45:00 AM

Work Order Number 1010186 | Received by dmc

Checklist completed by [signature] 8/31/10 (Signature / Date) | Reviewed by JSA 8/31/10 (Initials / Date)

Matrix: | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☐	No ☑	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: FLOW CONTROLLER #905 WAS RECEIVED BROKEN.

Corrective Action _____

AECOM111 A7

Form 6

TO-15 Volatiles in Air INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM111

Instrument ID: HP5973I Calibration Dates: 9/2/2010 9/2/2010

Heated Purge: (Y/N) N Calibration Times: 0:16 4:20

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: VSTD0.16 I6701.D VSTD002= I6700.D VSTD005= I6699.D VSTD010= I6698.D VSTD020= I6697.D

VSTD040= I6696.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R ²
Freon-114	*	3.9647739	2.9696255	4.7195959	3.0650319	2.9795903	3.4078764					3.518	19.9	*
Propylene	*	1.0258392	0.7481694	1.2012179	0.7369709	0.7814287	0.8728863					0.894	20.7	*
Dichlorodifluoromethane	*	3.939737	2.9977469	4.7077516	2.9221899	3.0561639	3.6110433					3.539	19.7	*
1,2-Dichlorotetrafluoroethane	*	3.9647739	2.9696255	4.7195959	3.0650319	2.9795903	3.4078764					3.518	19.9	*
Chloromethane	*	1.1231451	0.9634088	1.5037046	0.9173106	0.933336	1.0564966					1.083	20.4	*
1,3-Butadiene	*	0.978878	0.7850005	1.2731138	0.8397478	0.8238032	0.9611086					0.944	19.0	*
Bromomethane	*	1.384071	1.0716282	1.7116748	1.1157283	1.0690993	1.1955369					1.258	20.0	*
Vinyl chloride	*	1.3208695	1.0826432	1.7129120	1.0781059	1.0782686	1.1836637					1.243	20.1	*
Chloroethane	*	0.7206588	0.5544487	0.8615903	0.5788297	0.5563028	0.6016509					0.646	19.0	*
Ethanol	*	0.4321246	0.2377595	0.3340903	0.235123	0.2309096	0.2747977					0.291	27.3	*
Isopropanol	*	2.0865949	1.2816418	2.0233944	1.4520454	1.4779084	1.7962248					1.686	19.6	*
Methylene chloride	*	2.7975096	1.2456451	1.8353003	1.2123475	1.1813714	1.2962276					1.595	40.0	*
Allyl Chloride	*	0.5050702	0.5022843	0.7837581	0.5366345	0.5318798	0.5751649					0.572	18.7	*
tert-Butyl Alcohol	*	2.1516910	1.7704183	2.7224411	1.9622213	1.9561012	2.3943436					2.160	16.1	*
Vinyl bromide	*	1.2287064	0.9895379	1.6079537	1.0792661	1.0356667	1.1236486					1.177	19.2	*
Acrolein	*	0.3740659	0.2856577	0.4653124	0.3281921	0.3391892	0.3675179					0.360	16.8	*
Acetone	*	2.8770866	1.4383123	2.0958303	1.4624864	1.5311887	1.8890992					1.882	29.4	*
Isopentane		0.4062756	0.3291541	0.55567	0.3905319	0.3778861	0.4056962					0.411	18.6	
Carbon disulfide	*	3.6124969	2.9727130	4.8421131	3.1949035	3.1189623	3.414503					3.526	19.4	*
1,1,2-Trichloro-1,2,2-trifluoroethane	*	2.9455661	2.2358924	3.6116412	2.4170307	2.3830859	2.6771193					2.712	18.7	*
1,1-Dichloroethene	*	1.0856573	0.9777094	1.6533279	1.1167701	1.0947121	1.2021176					1.188	20.1	*
1,1-Dichloroethane	*	2.6104767	2.0101700	3.0996971	2.0873383	2.070907	2.3031248					2.364	17.9	*

Form 6

TO-15 Volatiles in Air INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: H2M LABS, INC.

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM111

Instrument ID: HP5973I Calibration Dates: 9/2/2010 9/2/2010

Heated Purge: (Y/N) N Calibration Times: 0:16 4:20

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: VSTD0.16 I6701.D VSTD002= I6700.D VSTD005= I6699.D VSTD010= I6698.D VSTD020= I6697.D
VSTD040= I6696.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					$\overline{RRF}$	% RSD	R^2
1,3,5-Trimethylbenzene	*	1.5513006	1.2119503	1.7112915	1.1891778	1.1941078	1.3925581					1.375	15.9	*
1,2,4-Trimethylbenzene	*	1.2774981	1.1712107	1.6891942	1.1812863	1.1922484	1.4067516					1.320	15.3	*
1,2,3-Trimethylbenzene	*	0.9049422	0.9374783	1.3491014	0.9476398	0.95427	1.1584877					1.042	16.9	*
Isopropylbenzene	*	1.8368875	1.4363873	2.1287769	1.4499677	1.4532423	1.6661189					1.662	16.8	*
1,3-Dichlorobenzene	*	1.3875982	0.9359903	1.3982273	0.9670376	0.9754373	1.1854056					1.142	18.7	*
1,4-Dichlorobenzene	*	1.3899888	0.9311098	1.4006989	0.9690201	0.9872196	1.2070081					1.148	18.7	*
1,2-Dichlorobenzene	*	1.315949	0.8591431	1.2605895	0.8725169	0.889554	1.0947830					1.049	19.6	*
Benzyl chloride	*	0.2510081	0.2138814	0.3296115	0.2362153	0.2418085	0.2992604					0.262	16.6	*
Indan	*	0.6060557	0.5966164	0.8908155	0.6189961	0.6294946	0.765802					0.685	17.3	*
Indene	*	0.7670645	0.8107669	1.2255449	0.8673879	0.8855126	1.0790536					0.939	18.8	*
1,2,4,5-Tetramethylbenzene	*	0.9123159	1.1590040	1.7041368	1.2419969	1.2195767	1.5097519					1.291	21.5	*
1,3-Hexachlorobutadiene	*	0.9266255	0.624311	0.9678314	0.6901555	0.7224623	0.9032160					0.806	17.9	*
1,2,4-Trichlorobenzene	*	0.9704299	0.6987412	1.0297228	0.7651302	0.7927661	1.0459481					0.884	16.9	*
Naphthalene	*	1.6027817	1.7274678	2.5135138	1.8499631	1.8117834	2.1278541					1.939	17.1	*
2-Methylnaphthalene	*	0.522117	0.8889339	1.3546818	1.0615124	0.9953328	1.3550226					1.030	30.4	*
1-Methylnaphthalene	*	0.4742723	0.7240343	1.0463209	0.8079977	0.7264235	0.9650664					0.791	25.6	*
4-Bromofluorobenzene	*	0.6594182	0.6573447	0.6767366	0.689573	0.6864687	0.7307915					0.683	3.9	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: AECOM SAS No.: SDG No.: AECOM111

Sample ID LFB090210 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 09/03/10 10:39

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ppbv)	SPIKE CONCENTRATION (ppbv)	SPIKE % REC #	QC. LIMITS REC.
Propylene	10	0	8.01	80	70-130
Dichlorodifluoromethane	10	0	8.27	83	70-130
Chloromethane	10	0	8.35	84	70-130
1,3-Butadiene	10	0	8.63	86	70-130
Bromomethane	10	0	8.46	85	70-130
Vinyl chloride	10	0	8.47	85	70-130
Chloroethane	10	0	8.66	87	70-130
Ethanol	10	0	9.63	96	70-130
Isopropanol	10	0	10	101	70-130
Methylene chloride	10	0	7.57	76	70-130
Acetone	10	0	8.45	85	70-130
Carbon disulfide	10	0	8.92	89	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	10	0	8.64	86	70-130
1,1-Dichloroethene	10	0	9.22	92	70-130
1,1-Dichloroethane	10	0	8.87	89	70-130
Trichlorofluoromethane	10	0	8.57	86	70-130
n-Hexane	10	0	9.06	91	70-130
Methyl tert-butyl ether	10	0	9.77	98	70-130
1,2-Dichloroethene (trans)	10	0	9.03	90	70-130
1,2-Dichloroethene (cis)	10	0	8.93	89	70-130
Tetrahydrofuran	10	0	9.54	95	70-130
Methyl ethyl ketone	10	0	9.36	94	70-130
Chloroform	10	0	8.55	86	70-130
1,2-Dichloroethane	10	0	8.46	85	70-130
1,1,1-Trichloroethane	10	0	8.94	89	70-130
Cyclohexane	10	0	9.55	96	70-130
Carbon tetrachloride	10	0	8.88	89	70-130
2,2,4-Trimethylpentane	10	0	9.3	93	70-130
Bromodichloromethane	10	0	9.03	90	70-130
1,2-Dichloropropane	10	0	9.05	91	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 59 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: AECOM SAS No.: _____ SDG No.: AECOM111

Sample ID LFB090210 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 09/03/10 10:39

1,4-Dioxane	10	0	9.91	99	70-130
1,3-Dichloropropene (cis)	10	0	9.37	94	70-130
Trichloroethene	10	0	8.96	90	70-130
Benzene	10	0	9.11	91	70-130
Dibromochloromethane	10	0	9.13	91	70-130
1,3-Dichloropropene (trans)	10	0	9.3	93	70-130
1,1,2-Trichloroethane	10	0	8.82	88	70-130
Bromoform	10	0	9.09	91	70-130
n-Heptane	10	0	9.36	94	70-130
Methyl isobutyl ketone	10	0	9.79	98	70-130
Methyl butyl ketone	10	0	9.79	98	70-130
1,2-Dibromoethane	10	0	8.81	88	70-130
Tetrachloroethene	10	0	8.63	86	70-130
1,1,2,2-Tetrachloroethane	10	0	8.79	88	70-130
Toluene	10	0	9.08	91	70-130
Chlorobenzene	10	0	8.43	84	70-130
Ethylbenzene	10	0	9.13	91	70-130
Styrene	10	0	10.1	101	70-130
Xylenes (m&p)	20	0	18.4	92	70-130
Xylenes (o)	10	0	9.16	92	70-130
4-Ethyltoluene	10	0	9.24	92	70-130
1,3,5-Trimethylbenzene	10	0	8.94	89	70-130
1,2,4-Trimethylbenzene	10	0	9.07	91	70-130
1,3-Dichlorobenzene	10	0	7.54	75	70-130
1,4-Dichlorobenzene	10	0	7.45	75	70-130
1,2-Dichlorobenzene	10	0	7.52	75	70-130
Benzyl chloride	10	0	8.83	88	70-130
1,3-Hexachlorobutadiene	10	0	7.03	70	70-130
1,2,4-Trichlorobenzene	10	0	5.44	54*	70-130

Not used.
GAM 10/21/15

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 59 outside limits

COMMENTS: _____

AECOM111 S39

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
April 2010

Data Usability Summary Report
National Grid/Equity Former MGP Site
ATL Work Orders: 1003359A, 1003552A/B
Final

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
April 2010

Data Usability Summary Report
National Grid/Equity Former MGP Site
ATL Work Orders: 1003359A, 1003552A/B
Final



Prepared By
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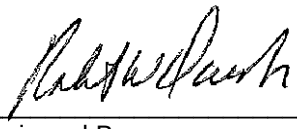
Pittsburgh, PA 15222-1220



Reviewed By
Robert Davis, Data Validator/Database Technician
AECOM
1360 Peachtree Street NE, Suite 500
Atlanta, GA 30309

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Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM - Pittsburgh on two data reports for the air and soil vapor samples collected at the Equity Former MGP Site in Brooklyn, NY. The samples were analyzed by Air Toxics, Ltd. (ATL), 180 Blue Ravine Road, Suite B, Folsom, CA, 95630-1020 for volatile organic compounds using USEPA Compendium Method TO-15 and helium using ASTM Method D-1946.

The following samples were collected on March 14, 2010 and submitted to ATL on March 16, 2010. The samples were assigned to ATL work orders: 1003359A and 1003352A/B.

Table 1
Sample Submittals – 2010 Equity SVI

Field ID	ATL ID	Matrix	Date Sampled	Canister ID
IA2	1003359A-01	Indoor Air	3/14/2010	35273
IA1	1003359A-02	Indoor Air	3/14/2010	02327
IA1 Dup	1003359A-03	Indoor Air (QC)	3/14/2010	21073
AMB1	1003359A-06	Ambient Air	3/14/2010	5755
SV2	1003552A/B-01	Soil Vapor	3/14/2010	33581
SV1	1003552A/B-02	Soil Vapor	3/14/2010	33888

The data were evaluated for conformance to method specifications and qualifiers were applied using the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999, as they apply to the analytical methods employed.

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air and soil vapor) with some qualifications. The methylene chloride results were qualified as estimates because of low method bias. Two chloromethane results were qualified as estimates because of field sampling and/or laboratory imprecision and/or sample heterogeneity. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable. The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

1003359A

Laboratory Control Sample Recovery (pp. 325-326): The LCS (1003359A-09A) recovery for methylene chloride was less than the lower quality control limit. All samples were affected. The methylene chloride results for samples AMB1, IA1, IA1 Dup, and IA2 were non-detect and were qualified "UJ," as estimates, because of low method bias.

1003552A

Laboratory Control Sample Recovery (pp. 325-326): The LCS (1003552A-05A) recovery for methylene chloride was less than the lower quality control limit. All samples were affected. The methylene chloride results for samples SV1 and SV2 were non-detect and were qualified "UJ," as estimates, because of low method bias.

2.0 Helium

1003552B

No data quality issues were noted. No data qualifications were required.

3.0 Field Duplicate Precision

A field duplicate sample was collected for sample IA1. The results for the parent and field duplicate samples were non-detects, with exception to those listed in the table below. The advisory limit for RPD is 25% for air/soil gas, or the difference between the primary and field duplicate results must be less than or equal to the reporting limit for results less than five times the reporting limit. The primary and field duplicate results for chloromethane required qualification (i.e., "J") as estimated concentrations, because of field sampling and/or laboratory imprecision and/or sample heterogeneity. See Table 2 below for details.

Table 2
Field Duplicate Precision – 2010 Equity SVI

Parameter	IA1		IA1 Dup		RPD (%)
Freon 11	0.23	ppbV	0.22	ppbV	4
Freon 12	0.44	ppbV	0.42	ppbV	5
Chloromethane	**0.39 J**	**ppbV**	**0.58 J**	**ppbV**	**39**
Benzene	0.32	ppbV	0.30	ppbV	6
Toluene	1.8	ppbV	1.7	ppbV	6
Ethylbenzene	0.51	ppbV	0.50	ppbV	2
m,p-Xylene	1.6	ppbV	1.5	ppbV	6
o-Xylene	0.68	ppbV	0.64	ppbV	6
Styrene	0.40	ppbV	0.36	ppbV	11
Acetone	9.8	ppbV	8.4	ppbV	15
Ethanol	60	ppbV	56	ppbV	7
4-Ethyltoluene	0.70	ppbV	0.64	ppbV	9
Isopentane	1.6	ppbV	1.3	ppbV	21
2-Propanol	5.3	ppbV	4.8	ppbV	10
Hexane	0.43	ppbV	0.42	ppbV	2
2-Butanone	2.5	ppbV	2.3	ppbV	8
4-Methyl-2-pentanone	0.17	ppbV	0.17	ppbV	0
Tetrahydrofuran	1.7	ppbV	1.7	ppbV	0
1,2,4-Trimethylbenzene	1.1	ppbV	1.0	ppbV	10
1,3,5-Trimethylbenzene	0.30	ppbV	0.27	ppbV	11
Tetrachloroethene	0.29	ppbV	0.29	ppbV	0
Indene	1.4	ppbV	1.2	ppbV	15
Naphthalene	4.3	ppbV	4.2	ppbV	2

4.0 Notes

The analyte list for this project contained the “non-routine” compounds: 2-methylpentane, 2,3-dimethylpentane, indene, indan, and thiophene. An independently-traceable source was not available for these compounds, so they were not spiked into the LCS as an independent (i.e., second source) check of method accuracy.

Tentatively Identified Compounds (TICs) were identified by the laboratory and are included on the Form 1s.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA2

Lab ID#: 1003359A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032513	**Date of Collection:**	3/14/10 4:30:00 PM
Dil. Factor:	1.58	**Date of Analysis:**	3/25/10 04:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.45	0.78	2.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.41	0.33	0.85
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.16	Not Detected	0.61	Not Detected
Chloroethane	0.16	Not Detected	0.42	Not Detected
Freon 11	0.16	0.17	0.89	0.96
Ethanol	0.79	4.5	1.5	8.5
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Acetone	0.79	7.1	1.9	17
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32 UJ	Not Detected	1.1 UJ	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Hexane	0.16	0.56	0.56	2.0
1,1-Dichloroethane	0.16	Not Detected	0.64	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	0.58	0.46	1.7
cis-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.77	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.86	Not Detected
Cyclohexane	0.16	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Benzene	0.16	0.37	0.50	1.2
1,2-Dichloroethane	0.16	Not Detected	0.64	Not Detected
Heptane	0.16	0.24	0.65	0.99
Trichloroethene	0.16	0.27	0.85	1.5
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
Toluene	0.16	0.96	0.60	3.6
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.86	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA2

Lab ID#: 1003359A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032513	Date of Collection:	3/14/10 4:30:00 PM
Dil. Factor:	1.58	Date of Analysis:	3/25/10 04:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.33	1.1	2.2
2-Hexanone	0.79	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Ethyl Benzene	0.16	0.20	0.69	0.88
m,p-Xylene	0.16	0.70	0.69	3.0
o-Xylene	0.16	0.24	0.69	1.0
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	0.28	0.78	1.4
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	0.33	0.78	1.6
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Thiophene	0.79	Not Detected	2.7	Not Detected
2,3-Dimethylpentane	0.79	Not Detected	3.2	Not Detected
Indene	0.79	Not Detected	3.8	Not Detected
Indan	0.79	Not Detected	3.8	Not Detected
Isopentane	0.79	2.3	2.3	6.8
2-Methylpentane	0.79	0.89	2.8	3.1
Naphthalene	0.79	Not Detected	4.1	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Butane	106-97-8	64%	1.6 NJ
Acetaldehyde	75-07-0	80%	1.9 NJ
Pentane	109-66-0	90%	1.9 NJ

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA2

Lab ID#: 1003359A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032513**	**Date of Collection: 3/14/10 4:30:00 PM**
Dil. Factor:	**1.58**	**Date of Analysis: 3/25/10 04:44 PM**

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1

Lab ID#: 1003359A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032514**	**Date of Collection: 3/14/10 4:05:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 3/25/10 05:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.44	0.81	2.2
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.39 J	0.34	0.80 J
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	Not Detected	0.64	Not Detected
Chloroethane	0.16	Not Detected	0.43	Not Detected
Freon 11	0.16	0.23	0.92	1.3
Ethanol	0.82	60	1.5	110
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	9.8	1.9	23
2-Propanol	0.82	5.3	2.0	13
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33 UJ	Not Detected	1.1 UJ	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	0.43	0.58	1.5
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	2.5	0.48	7.3
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	1.7	2.4	5.1
Chloroform	0.16	Not Detected	0.80	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	0.32	0.52	1.0
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	0.17	0.67	0.69
Toluene	0.16	1.8	0.62	6.6
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1

Lab ID#: 1003359A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032514	Date of Collection:	3/14/10 4:05:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 05:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.29	1.1	2.0
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Ethyl Benzene	0.16	0.51	0.71	2.2
m,p-Xylene	0.16	1.6	0.71	7.2
o-Xylene	0.16	0.68	0.71	3.0
Styrene	0.16	0.40	0.70	1.7
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	0.70	0.81	3.4
1,3,5-Trimethylbenzene	0.16	0.30	0.81	1.5
1,2,4-Trimethylbenzene	0.16	1.1	0.81	5.3
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Thiophene	0.82	Not Detected	2.8	Not Detected
2,3-Dimethylpentane	0.82	Not Detected	3.4	Not Detected
Indene	0.82	1.4	3.9	6.4
Indan	0.82	Not Detected	4.0	Not Detected
Isopentane	0.82	1.6	2.4	4.8
2-Methylpentane	0.82	Not Detected	2.9	Not Detected
Naphthalene	0.82	4.3	4.3	23

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Ethane, 1-chloro-1,1-difluoro-	75-68-3	83%	18 NJ
Butane	106-97-8	72%	1.8 NJ
Acetaldehyde	75-07-0	9.0%	2.0 NJ
Pentane	109-66-0	90%	2.6 NJ
Decane	124-18-5	91%	1.8 NJ

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1

Lab ID#: 1003359A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032514	Date of Collection:	3/14/10 4:05:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 05:30 PM

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Undecane	1120-21-4	87%	2.4 NJ
Dodecane	112-40-3	94%	1.7 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1 Dup

Lab ID#: 1003359A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032515	**Date of Collection:**	3/14/10 4:05:00 PM
Dil. Factor:	1.64	**Date of Analysis:**	3/25/10 06:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.81	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	0.58 J	0.34	1.2 J
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	Not Detected	0.64	Not Detected
Chloroethane	0.16	Not Detected	0.43	Not Detected
Freon 11	0.16	0.22	0.92	1.3
Ethanol	0.82	56	1.5	100
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	8.4	1.9	20
2-Propanol	0.82	4.8	2.0	12
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33 UJ	Not Detected	1.1 UJ	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	0.42	0.58	1.5
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	2.3	0.48	6.9
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	1.7	2.4	4.9
Chloroform	0.16	Not Detected	0.80	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	0.30	0.52	0.94
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	0.17	0.67	0.70
Toluene	0.16	1.7	0.62	6.4
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1 Dup

Lab ID#: 1003359A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032515	**Date of Collection:**	3/14/10 4:05:00 PM
Dil. Factor:	1.64	**Date of Analysis:**	3/25/10 06:15 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	0.29	1.1	2.0
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Ethyl Benzene	0.16	0.50	0.71	2.2
m,p-Xylene	0.16	1.5	0.71	6.6
o-Xylene	0.16	0.64	0.71	2.8
Styrene	0.16	0.36	0.70	1.5
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	0.64	0.81	3.2
1,3,5-Trimethylbenzene	0.16	0.27	0.81	1.3
1,2,4-Trimethylbenzene	0.16	1.0	0.81	5.0
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Thiophene	0.82	Not Detected	2.8	Not Detected
2,3-Dimethylpentane	0.82	Not Detected	3.4	Not Detected
Indene	0.82	1.2	3.9	5.8
Indan	0.82	Not Detected	4.0	Not Detected
Isopentane	0.82	1.3	2.4	3.9
2-Methylpentane	0.82	Not Detected	2.9	Not Detected
Naphthalene	0.82	4.2	4.3	22

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Propane, 2-methyl-	75-28-5	9.0%	1.7 NJ
Ethane, 1-chloro-1,1-difluoro-	75-68-3	83%	18 NJ
Butane	106-97-8	64%	1.7 NJ
Acetaldehyde	75-07-0	9.0%	1.8 NJ
Pentane	109-66-0	90%	2.5 NJ

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: IA1 Dup

Lab ID#: 1003359A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032515	Date of Collection:	3/14/10 4:05:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 06:15 PM

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
.alpha.-Pinene	80-56-8	90%	1.7 NJ
Pentadecane	629-62-9	78%	1.9 NJ
Tetradecane, 1-iodo-	19218-94-1	22%	1.9 NJ
Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethy	464-17-5	89%	2.5 NJ
Decane, 6-ethyl-2-methyl-	62108-21-8	90%	3.9 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AMB1

Lab ID#: 1003359A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032517	Date of Collection:	3/14/10 4:21:00 PM
Dil. Factor:	1.87	Date of Analysis:	3/25/10 08:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.19	0.51	0.92	2.5
Freon 114	0.19	Not Detected	1.3	Not Detected
Chloromethane	0.19	0.59	0.39	1.2
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,3-Butadiene	0.19	Not Detected	0.41	Not Detected
Bromomethane	0.19	0.25	0.73	0.98
Chloroethane	0.19	Not Detected	0.49	Not Detected
Freon 11	0.19	0.24	1.0	1.3
Ethanol	0.94	4.3	1.8	8.1
Freon 113	0.19	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Acetone	0.94	14	2.2	33
2-Propanol	0.94	Not Detected	2.3	Not Detected
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
Methylene Chloride	0.37 UJ	Not Detected	1.3 UJ	Not Detected
Methyl tert-butyl ether	0.19	Not Detected	0.67	Not Detected
trans-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Hexane	0.19	Not Detected	0.66	Not Detected
1,1-Dichloroethane	0.19	Not Detected	0.76	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.19	0.83	0.55	2.4
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
Chloroform	0.19	Not Detected	0.91	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Cyclohexane	0.19	Not Detected	0.64	Not Detected
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Benzene	0.19	Not Detected	0.60	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Heptane	0.19	Not Detected	0.77	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,2-Dichloropropane	0.19	Not Detected	0.86	Not Detected
1,4-Dioxane	0.19	Not Detected	0.67	Not Detected
Bromodichloromethane	0.19	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
4-Methyl-2-pentanone	0.19	0.22	0.77	0.89
Toluene	0.19	0.54	0.70	2.0
trans-1,3-Dichloropropene	0.19	Not Detected	0.85	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AMB1

Lab ID#: 1003359A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032517**	**Date of Collection: 3/14/10 4:21:00 PM**	
Dil. Factor:	**1.87**	**Date of Analysis: 3/25/10 08:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.19	4.2	1.3	28
2-Hexanone	0.94	Not Detected	3.8	Not Detected
Dibromochloromethane	0.19	Not Detected	1.6	Not Detected
1,2-Dibromoethane (EDB)	0.19	Not Detected	1.4	Not Detected
Chlorobenzene	0.19	Not Detected	0.86	Not Detected
Ethyl Benzene	0.19	Not Detected	0.81	Not Detected
m,p-Xylene	0.19	0.26	0.81	1.1
o-Xylene	0.19	Not Detected	0.81	Not Detected
Styrene	0.19	Not Detected	0.80	Not Detected
Bromoform	0.19	Not Detected	1.9	Not Detected
Cumene	0.19	Not Detected	0.92	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Propylbenzene	0.19	Not Detected	0.92	Not Detected
4-Ethyltoluene	0.19	Not Detected	0.92	Not Detected
1,3,5-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.92	Not Detected
1,3-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.19	Not Detected	0.97	Not Detected
1,2-Dichlorobenzene	0.19	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.94	Not Detected	6.9	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected
3-Chloropropene	0.94	Not Detected	2.9	Not Detected
Thiophene	0.94	Not Detected	3.2	Not Detected
2,3-Dimethylpentane	0.94	Not Detected	3.8	Not Detected
Indene	0.94	Not Detected	4.4	Not Detected
Indan	0.94	Not Detected	4.5	Not Detected
Isopentane	0.94	Not Detected	2.8	Not Detected
2-Methylpentane	0.94	Not Detected	3.3	Not Detected
Naphthalene	0.94	Not Detected	4.9	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Acetaldehyde	75-07-0	9.0%	2.2 NJ
2-Pentanone	107-87-9	45%	2.8 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AMB1

Lab ID#: 1003359A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032517	Date of Collection:	3/14/10 4:21:00 PM
Dil. Factor:	1.87	Date of Analysis:	3/25/10 08:40 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV2

Lab ID#: 1003552A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032518	Date of Collection:	3/14/10 4:41:00 PM
Dil. Factor:	8.20	Date of Analysis:	3/25/10 09:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	1.4	4.0	7.1
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	1.7	4.6	9.5
Ethanol	4.1	Not Detected	7.7	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Acetone	4.1	Not Detected	9.7	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
Methylene Chloride	1.6 UJ	Not Detected	5.7 UJ	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Tetrahydrofuran	4.1	Not Detected	12	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
2,2,4-Trimethylpentane	4.1	Not Detected	19	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
Trichloroethene	0.82	150	4.4	810
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	0.82	Not Detected	3.0	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
Toluene	0.82	0.97	3.1	3.6
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV2

Lab ID#: 1003552A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032518**	**Date of Collection:**	**3/14/10 4:41:00 PM**
Dil. Factor:	**8.20**	**Date of Analysis:**	**3/25/10 09:22 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.82	160	5.6	1100
2-Hexanone	4.1	Not Detected	17	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	1.7	3.6	7.6
m,p-Xylene	0.82	4.2	3.6	18
o-Xylene	0.82	2.9	3.6	13
Styrene	0.82	Not Detected	3.5	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
Propylbenzene	0.82	0.83	4.0	4.1
4-Ethyltoluene	0.82	3.5	4.0	17
1,3,5-Trimethylbenzene	0.82	1.4	4.0	6.9
1,2,4-Trimethylbenzene	0.82	3.4	4.0	17
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Thiophene	4.1	Not Detected	14	Not Detected
2,3-Dimethylpentane	4.1	Not Detected	17	Not Detected
Indene	4.1	Not Detected	19	Not Detected
Indan	4.1	Not Detected	20	Not Detected
Isopentane	4.1	Not Detected	12	Not Detected
2-Methylpentane	4.1	Not Detected	14	Not Detected
Naphthalene	4.1	5.4	21	28

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Decane, 2,2-dimethyl-	17302-37-3	64%	8.4 NJ
3-Pentanol, 3-(1,1-dimethylethyl)-2,2,4,	41902-42-5	12%	13 NJ
Heptadecane, 8-methyl-	13287-23-5	72%	15 NJ

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV2

Lab ID#: 1003552A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032518	Date of Collection:	3/14/10 4:41:00 PM
Dil. Factor:	8.20	Date of Analysis:	3/25/10 09:22 PM

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethy	464-17-5	95%	12 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	72%	25 NJ
Heptane, 2,4-dimethyl-	2213-23-2	53%	10 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV1

Lab ID#: 1003552A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032519	Date of Collection:	3/14/10 3:58:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 10:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	2.7	0.81	13
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.16	Not Detected	0.34	Not Detected
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	Not Detected	0.64	Not Detected
Chloroethane	0.16	Not Detected	0.43	Not Detected
Freon 11	0.16	2.3	0.92	13
Ethanol	0.82	4.2	1.5	7.8
Freon 113	0.16	Not Detected	1.2	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Acetone	0.82	1.8	1.9	4.3
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33 UJ	Not Detected	1.1 UJ	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Hexane	0.16	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	0.30	0.48	0.88
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	0.24	0.80	1.2
1,1,1-Trichloroethane	0.16	0.30	0.89	1.7
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Benzene	0.16	Not Detected	0.52	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
Trichloroethene	0.16	0.43	0.88	2.3
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
Toluene	0.16	0.69	0.62	2.6
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV1

Lab ID#: 1003552A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032519**	**Date of Collection: 3/14/10 3:58:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 3/25/10 10:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.16	4.4	1.1	30
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Ethyl Benzene	0.16	0.59	0.71	2.6
m,p-Xylene	0.16	1.6	0.71	7.0
o-Xylene	0.16	1.4	0.71	6.1
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	0.18	0.81	0.89
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Propylbenzene	0.16	0.26	0.81	1.3
4-Ethyltoluene	0.16	1.7	0.81	8.3
1,3,5-Trimethylbenzene	0.16	1.0	0.81	4.9
1,2,4-Trimethylbenzene	0.16	3.4	0.81	17
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Thiophene	0.82	Not Detected	2.8	Not Detected
2,3-Dimethylpentane	0.82	Not Detected	3.4	Not Detected
Indene	0.82	2.3	3.9	11
Indan	0.82	1.2	4.0	5.9
Isopentane	0.82	Not Detected	2.4	Not Detected
2-Methylpentane	0.82	Not Detected	2.9	Not Detected
Naphthalene	0.82	8.1	4.3	42

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
Heptane, hexadecafluoro-	335-57-9	64%	16 NJ
Butane, 1,1,1,2,3,3,4,4,4-nonafluoro-2-(	594-91-2	40%	68 NJ
Butanoic acid, heptafluoro-, ethyl ester	356-27-4	40%	300 NJ

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV1

Lab ID#: 1003552A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032519	Date of Collection:	3/14/10 3:58:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 10:05 PM

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ((ppbv))
[2,2,3,3,4,4-Hexafluoro-4-(fluoroformyl)	91940-19-1	9.0%	94 NJ
Perfluoro-1,1-dimethylcyclopentane	20471-99-2	32%	40 NJ
Heptane, 4-ethyl-2,2,6,6-tetramethyl-	62108-31-0	72%	20 NJ
Tricyclo[3.3.1.13,7]decane, 1-nitro-	7575-82-8	43%	9.4 NJ
Undecane, 2,6-dimethyl-	17301-23-4	58%	10 NJ
Octadecane, 5-methyl-	25117-35-5	27%	9.1 NJ
2-Undecene, 5-methyl-	56851-34-4	52%	14 NJ

NJ =The identification is based on presumptive evidence; estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV2

Lab ID#: 1003552B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9032514	Date of Collection:	3/14/10 4:41:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 05:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.082	0.82

Container Type: 6 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV1

Lab ID#: 1003552B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9032515	Date of Collection:	3/14/10 3:58:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/25/10 06:10 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.082	0.76

Container Type: 6 Liter Summa Canister (100% Certified)

Appendix C

Support Documentation

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1003359A

Work Order Summary

CLIENT:	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281	**BILL TO:**	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281
PHONE:	212-798-8500	**P.O. #**	6183ACM
FAX:	845-348-1190	**PROJECT #**	60137362 Equity former MGP
DATE RECEIVED:	03/16/2010	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/29/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IA2	Modified TO-15/TICs	4.5 "Hg	5 psi
02A	IA1	Modified TO-15/TICs	5.5 "Hg	5 psi
03A	IA1 Dup	Modified TO-15/TICs	5.5 "Hg	5 psi
06A	AMB1	Modified TO-15/TICs	8.5 "Hg	5 psi
07A	Lab Blank	Modified TO-15/TICs	NA	NA
08A	CCV	Modified TO-15/TICs	NA	NA
09A	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: _____ DATE: 03/29/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Peter Coy / Jon Pfeiffer

Collected by: (Print and Sign) Jesse Lioyd

Company AECOM NY Email jennifer.pfeiffer@aecom.com

Address 200 Liberty Street 25Fl City Manhattan State NY Zip 10281

Phone 212.798.8500 Fax 212.798.8501

Project Info:
P.O. #
Project # 60137362
Project Name Equity former MGP

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	IA2	35273	3-14-10	0807/1630	TO15LL + MGP indicators	-31	-5.5		
02A	IA1	01327		0802/1605	TO15LL + MGP indicators	-30	-7		
03A	IA1 Dup	21073		0802/1605	TO15LL + MGP indicators	-32	-7		
04A	SV2	33681		0806/1641	TO15LL + MGP indicators + He	-33	-7		
05A	SV1	33888		0803/1558	TO15LL + MGP indicators + He	-29.0	-6		
06A	AMB1	5255		0805/1631	TO15LL + MGP indicators	-28	-6		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	3-14-10 1700	Monica Gregson, ATL	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time 3/16/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: He on SV1 & SV2

MGP indicators = naphthalene, 123trimethylbenzene, 1methylnaphthalene, 2methylnaphthalene tetramethylbenzene, indan, indene thiophene, 2methylpentane, isopentane 2-3dimethylpentane / call before diluting samples

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No None	1003359

Form 1269 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1003359A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	e032508	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/25/10 12:56 PM	

Compound	%Recovery
Freon 12	88
Freon 114	87
Chloromethane	76
Vinyl Chloride	88
1,3-Butadiene	90
Bromomethane	102
Chloroethane	87
Freon 11	86
Ethanol	78
Freon 113	78
1,1-Dichloroethene	77
Acetone	93
2-Propanol	83
Carbon Disulfide	87
Methylene Chloride	64 Q
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	87
Hexane	84
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	85
Tetrahydrofuran	86
Chloroform	84
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	88
Benzene	83
1,2-Dichloroethane	84
Heptane	86
Trichloroethene	87
1,2-Dichloropropane	88
1,4-Dioxane	78
Bromodichloromethane	91
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	82
Toluene	80
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	88

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1003359A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/10 12:56 PM**	

Compound	%Recovery
Tetrachloroethene	87
2-Hexanone	84
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	94
Chlorobenzene	84
Ethyl Benzene	87
m,p-Xylene	86
o-Xylene	86
Styrene	86
Bromoform	72
Cumene	97
1,1,2,2-Tetrachloroethane	88
Propylbenzene	82
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	110
3-Chloropropene	90
Thiophene	Not Spiked
2,3-Dimethylpentane	Not Spiked
Indene	Not Spiked
Indan	Not Spiked
Isopentane	90
2-Methylpentane	Not Spiked
Naphthalene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1003552A

Work Order Summary

CLIENT:	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281	**BILL TO:**	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281
PHONE:	212-798-8500	**P.O. #**	6183ACM
FAX:	845-348-1190	**PROJECT #**	60137362 Equity former MGP
DATE RECEIVED:	03/16/2010	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/29/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV2	Modified TO-15/TICs	5.5 "Hg	5 psi
01AA	SV2 Lab Duplicate	Modified TO-15/TICs	5.5 "Hg	5 psi
02A	SV1	Modified TO-15/TICs	5.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15/TICs	NA	NA
04A	CCV	Modified TO-15/TICs	NA	NA
05A	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: _____ DATE: 03/29/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1003552B

Work Order Summary

CLIENT:	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281	**BILL TO:**	Ms. Jennifer Pfeiffer AECOM Environment One World Financial Center 200 Liberty Street, 25th Floor New York, NY 10281
PHONE:	212-798-8500	**P.O. #**	6183ACM
FAX:	845-348-1190	**PROJECT #**	60137362 Equity former MGP
DATE RECEIVED:	03/16/2010	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/29/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV2	Modified ASTM D-1946	5.5 "Hg	5 psi
02A	SV1	Modified ASTM D-1946	5.5 "Hg	5 psi
02AA	SV1 Lab Duplicate	Modified ASTM D-1946	5.5 "Hg	5 psi
03A	Lab Blank	Modified ASTM D-1946	NA	NA
04A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Kristie A. Freimark DATE: 03/29/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Peter Coy / Ben Pfeiffer
Collected by: (Print and Sign) Jesse Lloyd
Company: AECOM NY Email: ben.pfeiffer@aecom.com
Address: 200 Liberty Street 25F City: Manhattan State: NY Zip: 10281
Phone: 212.798.8500 Fax: 212.798.8501

Project Info:
P.O. #:
Project #: 60137362
Project Name: Equity former MGP

Turn Around Time:
☒ Normal
☐ Rush
(specify)

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psig)
	IA2	35273	3-14-10	0807/1630	TO15SIM + MGP indicators	-31	-5.5		
	IA1	02327		0802/1605	TO15SIM + MGP indicators	-30	-7		
	IA1 Dup	21073		0702/1605	TO15SIM + MGP indicators	-32	-7		
	SV2	33581		0804/1641	TO15SIM modified + He	-33	-7		
	SV1	33888		0803/1558	TO15SIM modified + He	-29.0	-6		
	AmB1	5765		0805/1631	TO15SIM + MGP indicators	-28	-6		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Jesse Lloyd	3-14-10 1700	Monica Troppoli, ATL	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time 3/16/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: He on SV1 & SV2
MGP indicators = naphthalene, 1,3,5-trimethylbenzene, 1-methylnaphthalene, 2-methylnaphthalene, tetramethylbenzene, indan, indene, thiophene, 2-methylpentane, isopentane, 2,3-dimethylpentane. Call before diluting samples

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No (None)	1003350 AC
						1003552

Form 1295 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1003552A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/10 12:56 PM**	

Compound	%Recovery
Freon 12	88
Freon 114	87
Chloromethane	76
Vinyl Chloride	88
1,3-Butadiene	90
Bromomethane	102
Chloroethane	87
Freon 11	86
Ethanol	78
Freon 113	78
1,1-Dichloroethene	77
Acetone	93
2-Propanol	83
Carbon Disulfide	87
Methylene Chloride	64 Q
Methyl tert-butyl ether	85
trans-1,2-Dichloroethene	87
Hexane	84
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	85
Tetrahydrofuran	86
Chloroform	84
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	88
Benzene	83
1,2-Dichloroethane	84
Heptane	86
Trichloroethene	87
1,2-Dichloropropane	88
1,4-Dioxane	78
Bromodichloromethane	91
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	82
Toluene	80
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	88

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1003552A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**e032508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/10 12:56 PM**	

Compound	%Recovery
Tetrachloroethene	87
2-Hexanone	84
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	94
Chlorobenzene	84
Ethyl Benzene	87
m,p-Xylene	86
o-Xylene	86
Styrene	86
Bromoform	72
Cumene	97
1,1,2,2-Tetrachloroethane	88
Propylbenzene	82
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	86
alpha-Chlorotoluene	86
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	110
3-Chloropropene	90
Thiophene	Not Spiked
2,3-Dimethylpentane	Not Spiked
Indene	Not Spiked
Indan	Not Spiked
Isopentane	90
2-Methylpentane	Not Spiked
Naphthalene	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
November 2011

Data Usability Summary Report
National Grid/Equity Site
2011 Addendum RI Sampling Event
Final

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
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Data Usability Summary Report
National Grid/Equity Site
2011 Addendum RI Sampling Event
Final

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Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on eight data packages from H2M Laboratories, Inc., 575 Broad Hollow Road, Melville, NY 11747-8436 (H2M) and for the analysis of groundwater samples collected on September 9-November 6, 2011 at the Equity Site.

The following analytical methods were requested on the chain-of-custody (COC) records:

- Volatile Organic Compounds by USEPA SW-846 Method 8260B,
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270C,
- Trace Metals by USEPA SW-846 Methods 6010B and 7470A/7471A,
- Total Cyanide by USEPA SW-846 Method 9012A,
- Weak Acid Dissociable (WAD) Cyanide by USEPA SW-846 9012B;
- Available Cyanide by USEPA OIA 1677, and
- Percent Solids for Dry Weight Corrections by Method SM2540 G mod.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, EPA-540-R-10-011, October 2010, as they apply to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The samples were processed and the results were reported under eight sample delivery groups (SDGs). Table 1 provides a sample submittal list.

Table 1 - Sample Submittals
National Grid / Equity Addendum RI Samples

Field ID	Laboratory ID	Matrix	Date Sampled
TP-4 (3-4)	K1658-14/K2279-03	Soil	9/9/2011
TP-4 (7-7.5)	K1658-15/K2279-04	Soil	9/9/2011
SB-22 (0-5)	460-31578-1	Soil	9/19/2011
SB-21 (0-5)	460-31578-2	Soil	9/22/2011
SB-29 (98)	460-31578-3	Soil	9/23/2011
SB-29 (98-100)	460-31578-4	Soil	9/23/2011
SB-29 (0-5)	460-31578-5	Soil	9/23/2011
SB-20 (1-2)	460-31629-1	Soil	9/24/2011
SB-20 (72.5-75)	460-31629-2	Soil	9/25/2011
SB-20 (108-110)	460-31629-3	Soil	9/25/2011

Field ID	Laboratory ID	Matrix	Date Sampled
SB-23 (89-90)	460-31654-1	Soil	9/27/2011
SB-23 (90-92.5)	460-31654-2	Soil	9/27/2011
SB-22 (84-85)	460-32732-1	Soil	10/20/2011
SB-22 (107.5-110)	460-32732-2	Soil	10/20/2011
SB-16C (92.5-95)	460-32830-1	Soil	10/22/2011
SB-16C (102.5-105)	460-32830-2	Soil	10/22/2011
SB-24 (98.5-99)	460-32830-3	Soil	10/22/2011
SB-24 (108-110)	460-32830-4	Soil	10/22/2011
SB-30 (78-79)	460-33095-1	Soil	10/29/2011
Dup-1	460-33095-2	Soil	10/29/2011
SB-30 (92-94)	460-33095-3	Soil	10/29/2011
SB-30 (92-94)MS	460-33095-3MS	Soil	10/29/2011
SB-30 (92-94)MSD	460-33095-3MSD	Soil	10/29/2011
SB-30 (3-5)	460-33095-4	Soil	10/29/2011
SB-19 (2-5)	460-33095-5	Soil	10/30/2011
SB-19 (70-75)	460-33471-1	Soil	11/6/2011
SB-19 (85-87.5)	460-33471-2	Soil	11/6/2011

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

Ninety-six non-detect volatiles results were rejected because the holding time was grossly exceeded for samples TP-4 (3-4) and TP-4 (7-7.5). All other data, not rejected, have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Completeness of 89.9% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

K2279

Holding Times (p. 7-8, 16): Samples TP-4 (3-4) and TP-4 (7-7.5) were analyzed 31 days and 28 days, respectively, outside the USEPA 14-day holding time because of a laboratory oversight. The holding time was grossly exceeded for both samples (i.e., > 28 days from sample collection). The positive and non-detect volatile results for samples TP-4 (3-4) and TP-4 (7-7.5) were qualified "J" and "R," as estimated concentrations, and rejected, respectively, because of low bias due to the holding time being grossly exceeded.

460-31578-1

Dilutions: Sample SB-29 (98) required analysis at an initial 100-fold dilution, using the medium-level soil (MLS) methanol extract, to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

460-31629-1

Dilutions: Samples SB-20 (1-2) and SB-20 (72.5-75) required analysis at an initial 50-fold dilution using the MLS methanol extract, to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilutions elevated the reporting limits and MDLs for non-detect results.

460-31654-1

No data quality issues were noted. No data qualifications were required.

460-32732-1

Dilutions: Sample SB-22 (107.5-110) required analysis using the MLS methanol extract, to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Matrix Spike Recoveries and RPDs (pp. 59-60): The SB-22 (107.5-110) MS/MSD recoveries for benzene, toluene, and total xylenes were less than the lower advisory limits. The MS/MSD recoveries for benzene and toluene were less than 10%. The benzene, toluene, and total xylenes results for sample SB-22 (107.5-110) were positive and were qualified "J," as estimated concentrations, because of low bias, attributable to matrix effects.

460-32830-1

Dilutions: Sample SB-24 (98.5-99) required analysis using the MLS methanol extract to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

460-33095-1

Dilutions: Samples SB-30 (78-79), Dup-1, and SB-19 (2-5) required analysis using the MLS methanol extract, to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Matrix Spike Recoveries and RPDs (pp. 93-96): The SB-30 (92-94) MS/MSD recoveries for benzene, toluene, ethylbenzene, total xylenes, and styrene were less than the lower advisory limits but greater than 10%. The positive and non-detect benzene, toluene, ethylbenzene, total xylenes, and styrene results for sample SB-19 (92-94) were qualified "J" and "UJ," as estimates, because of low bias, attributable to matrix effects.

The styrene spike added to SB-30 (78-79) MS/MSD was less than 25% of the original sample result. The styrene spike recoveries and RPD could not be calculated. No data qualifications were required.

460-33471-1

No data quality issues were noted. No data qualifications were required.

2.0 Semivolatile Organic Compounds

K1658/K2279

Calibrations (K2279 pp.1304-1307, 1341-1342): The initial calibration relative standard deviations (RSDs) for benzaldehyde, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, and hexachlorocyclopentadiene were greater than 15% on 09/27/11 on instrument S3. The benzaldehyde, 2,4-dinirophenol, 4,6-dinitro-2-methylphenol, and hexachlorocyclopentadiene results for associated samples TP-4 (3-4) and TP-4 (7-7.5) were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

Surrogate Recoveries/Dilutions (K1658 p. 724): Sample TP-4 (7-7.5) required analysis at an initial five-fold dilution and a subsequent 25-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out in the 25-fold dilution analysis and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in-control. No data qualifications were required. The initial dilution elevated the reporting limits and MDLs for non-detect results.

460-31578-1

Calibrations (pp.571-573): The continuing calibration percent differences (%Ds) for indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene were greater than the upper quality control limit of 20% on 09/27/11 at 13:04 on instrument BNAMS4. Sensitivity increased with respect to the initial calibration average relative response factors. The positive indeno(1,2,3-cd)pyrene and benzo(g,h,i)perylene results for associated samples SB-21 (0-5) and SB-29 (0-5) were qualified "J," as estimated concentrations, because of high instrument bias.

Surrogate Recoveries/Dilutions (p. 336): Sample SB-29 (98) required analysis at an initial 10-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in-control. No data qualifications were required.

Samples SB-21 (0-5), SB-22 (0-5), and SB-29 (0-5) required analysis at an initial two to five-fold dilution to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilutions elevated the reporting limits and MDLs for non-detect results.

460-31629-1

Laboratory Control Sample Recoveries (p.311): The LCS 460-87462/2-A recoveries for benzo(b)fluoranthene and benzo(a)pyrene were greater than the upper quality control limits. The positive benzo(b)fluoranthene and benzo(a)pyrene results for associated samples SB-20 (1-2), SB-20 (72.5-75), and SB-20 (108-110) were qualified "J," as estimated concentrations, because of high method bias.

Surrogate Recoveries/Dilutions: Samples SB-20 (1-2) and SB-20 (72.5-75) required analysis at an initial two to five-fold dilution to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilutions elevated the reporting limits and MDLs for non-detect results.

460-31654-1

No data quality issues were noted. No data qualifications were required.

460-32732-1

No data quality issues were noted. No data qualifications were required.

460-32830-1

Surrogate Recoveries/Dilutions (p. 292): Sample SB-24 (98.5-99) required analysis at an initial 10-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in-control. The initial dilution elevated the MDLs and RLs for non-detect results. No data qualifications were required.

460-33095-1

Surrogate Recoveries/Dilutions (p. 348): Sample SB-19 (2-5) required analysis at an initial 10-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in-control. The initial dilution elevated the MDLs and RLs for non-detect results. No data qualifications were required.

Samples SB-30 (78-79), Dup-1, and SB-30 (2-5) required analysis at an initial two to five-fold dilution to bring the target compound concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilutions elevated the reporting limits and MDLs for non-detect results.

Matrix Spike Recoveries and RPDs (pp. 350-351): The SB-30 (92-94) MS and/or MSD recoveries for phenanthrene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene were greater than the upper advisory limits. No data qualifications were required because phenanthrene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene were not detected in sample SB-30 (92-94).

460-33471-1

No data quality issues were noted. No data qualifications were required.

3.0 Trace Metals

K1658

Blank Contamination (p. 2521): Antimony was detected ion the initial calibration blank analyzed on 09/22/11 at 08:05 on instrument Optima3 at a concentration estimated below the reporting limit. The antimony result for associated sample TP-4 (3-4) was less than five times the blank level and was qualified "U," as undetected, because of laboratory contamination.

Laboratory Duplicate RPDs (p. 2528): The laboratory duplicate relative percent difference for sample TP-4 (7-7.5) was greater than the maximum quality control limit of 35%. The mercury results for associated samples TP-4 (3-4) and TP-4 (7-7.5) were positive and were qualified "J," as estimated concentrations, because of method imprecision and/or matrix effects.

Matrix Spike Recovery (p. 2527): The TP (7-7.5) MS recovery for mercury was less than the lower advisory limit at 69%. The mercury results for associated samples TP-4 (3-4) and TP-4 (7-7.5) were positive and were qualified "J," as estimated concentrations, because of low bias, attributable to matrix effects.

460-31578-1

No data quality issues were noted. No data qualifications were required.

460-31629-1

No data quality issues were noted. No data qualifications were required.

460-31654-1

No data quality issues were noted. No data qualifications were required.

460-32732-1

No data quality issues were noted. No data qualifications were required.

460-32830-1

No data quality issues were noted. No data qualifications were required.

460-33095-1

Blank Contamination: Lead was detected ion the initial calibration blank analyzed on 11/06/11 at 09:41 on instrument ICP2 at a concentration estimated below the reporting limit. The lead result for associated sample SB-30 (92-94) was greater than five times the blank level. No data qualifications were required.

460-33471-1

No data quality issues were noted. No data qualifications were required.

4.0 Cyanide

K1658

No data quality issues were noted. No data qualifications were required.

460-31578-1

No data quality issues were noted. No data qualifications were required.

460-31629-1

No data quality issues were noted. No data qualifications were required.

460-31654-1

No data quality issues were noted. No data qualifications were required.

460-32732-1

No data quality issues were noted. No data qualifications were required.

460-32830-1

No data quality issues were noted. No data qualifications were required.

460-33095-1

No data quality issues were noted. No data qualifications were required.

460-33471-1

No data quality issues were noted. No data qualifications were required.

5.0 Field Duplicate Comparisons

A field duplicate sample was collected for soil sample SB-30 (78-79). Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments, or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 35% for soil/sediments, or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate sample were non-detects, with exception to those listed in Table 2 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all analytes/compounds except for those in bold text below. The nonconforming resuts were qualified "J," as estimated concentrations, because of field sampling/laboratory imprecision and sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

*: The difference between the parent and field duplicate results was less than the reporting limit (twice the reporting limit for metals) for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/kg: micrograms per kilogram (ppb)

mg/kg: milligrams per kilogram (ppm)

Table 2 – Field Precision
National Grid / Equity Addendum RI Samples

Parameter	SB-30 (78-79)		Dup-1		RPD (%)
Benzene	**190 J**	**µg/kg**	**1800 J**	**µg/kg**	**162**
Toluene	**3600 J**	**µg/kg**	**17000 J**	**µg/kg**	**130**
Ethylbenzene	**3700 J**	**µg/kg**	**11000 J**	**µg/kg**	**99**
Xylenes, total	**17000 J**	**µg/kg**	**52000 J**	**µg/kg**	**101**
Styrene	**9100 J**	**µg/kg**	**28000 J**	**µg/kg**	**102**
Naphthalene	**570 J**	**µg/kg**	**2000 J**	**µg/kg**	**111**
Acenaphthylene	4200	µg/kg	4100	µg/kg	2
Acenaphthene	530 J	µg/kg	540 J	µg/kg	2
Fluorene	4800	µg/kg	4300	µg/kg	11
Phenanthrene	19000	µg/kg	16000	µg/kg	17
Anthracene	4100	µg/kg	3600	µg/kg	13
Fluoranthene	5600	µg/kg	4600	µg/kg	20
Pyrene	8600	µg/kg	6900	µg/kg	22
Benzo(a)anthracene	3800	µg/kg	2800	µg/kg	30
Chrysene	3400	µg/kg	3100	µg/kg	9
Benzo(b)fluoranthene	1700	µg/kg	1500	µg/kg	13
Benzo(k)fluoranthene	590	µg/kg	500	µg/kg	17
Benzo(a)pyrene	2200	µg/kg	2000	µg/kg	10
Indeno(1,2,3-cd)pyrene	910	µg/kg	730	µg/kg	22
Dibenz(a,h)anthracene	240	µg/kg	220	µg/kg	9
Benzo(g,h,i)perylene	1000 J	µg/kg	840 J	µg/kg	17
Arsenic	2.9	mg/kg	1.8	mg/kg	47*
Barium	14.1 J	mg/kg	11.4 J	mg/kg	21
Chromium	13.4	mg/kg	10.5	mg/kg	24
Lead	2.2	mg/kg	1.7	mg/kg	26

6.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit. The "J" qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-03A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A7399.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/03/2011

% Moisture: not dec. 17 Date Analyzed: 11/07/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.6	U R HT
74-87-3	Chloromethane	5.6	U
75-01-4	Vinyl chloride	5.6	U
74-83-9	Bromomethane	5.6	U
75-00-3	Chloroethane	5.6	U
75-69-4	Trichlorofluoromethane	5.6	U
75-35-4	1,1-Dichloroethene	5.6	U
67-64-1	Acetone	5.6	U
75-15-0	Carbon disulfide	5.6	U
75-09-2	Methylene chloride	5.6	U
156-60-5	trans-1,2-Dichloroethene	5.6	U
1634-04-4	Methyl tert-butyl ether	5.6	U
75-34-3	1,1-Dichloroethane	5.6	U
78-93-3	2-Butanone	5.6	U
156-59-2	cis-1,2-Dichloroethene	5.6	U
67-66-3	Chloroform	5.6	U
71-55-6	1,1,1-Trichloroethane	5.6	U
56-23-5	Carbon tetrachloride	5.6	U
107-06-2	1,2-Dichloroethane	5.6	U
71-43-2	Benzene	5.6	U
79-01-6	Trichloroethene	5.6	U
78-87-5	1,2-Dichloropropane	5.6	U
75-27-4	Bromodichloromethane	5.6	U
10061-01-5	cis-1,3-Dichloropropene	5.6	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	5.6	U
10061-02-6	trans-1,3-Dichloropropene	5.6	U
79-00-5	1,1,2-Trichloroethane	5.6	U
127-18-4	Tetrachloroethene	5.6	U
591-78-6	2-Hexanone	5.6	U
124-48-1	Dibromochloromethane	5.6	U
106-93-4	1,2-Dibromoethane	5.6	U
108-90-7	Chlorobenzene	5.6	U
100-41-4	Ethylbenzene	5.6	U
1330-20-7	m,p-Xylene	5.6	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-03A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A7399.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/03/2011

% Moisture: not dec. 17 Date Analyzed: 11/07/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-47-6	o-Xylene	5.6	U R
100-42-5	Styrene	5.6	U
75-25-2	Bromoform	5.6	U
98-82-8	Isopropylbenzene	5.6	U
79-34-5	1,1,2,2-Tetrachloroethane	5.6	U
541-73-1	1,3-Dichlorobenzene	5.6	U
106-46-7	1,4-Dichlorobenzene	5.6	U
95-50-1	1,2-Dichlorobenzene	5.6	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U
110-82-7	Cyclohexane	5.6	U
79-20-9	Methyl acetate	5.6	U
108-87-2	Methylcyclohexane	5.6	U

HT

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-03A

Sample wt/vol: 5.40 (g/mL) G Lab File ID: V8A7399.D

Level: (TRACE or LOW/MED) LOW Date Received: 11/03/2011

% Moisture: not dec. 17 Date Analyzed: 11/07/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

[1]EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-04A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4232.D

Level: (TRACE/LOW/MED) MED Date Received: 11/03/2011

% Moisture: not dec. 25 Date Analyzed: 11/04/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	390	U R
74-87-3	Chloromethane	390	U
75-01-4	Vinyl chloride	390	U
74-83-9	Bromomethane	390	U
75-00-3	Chloroethane	390	U
75-69-4	Trichlorofluoromethane	390	U
75-35-4	1,1-Dichloroethene	390	U
67-64-1	Acetone	390	U
75-15-0	Carbon disulfide	390	U
75-09-2	Methylene chloride	390	U
156-60-5	trans-1,2-Dichloroethene	390	U
1634-04-4	Methyl tert-butyl ether	390	U
75-34-3	1,1-Dichloroethane	390	U
78-93-3	2-Butanone	390	U
156-59-2	cis-1,2-Dichloroethene	390	U
67-66-3	Chloroform	390	U
71-55-6	1,1,1-Trichloroethane	390	U
56-23-5	Carbon tetrachloride	390	U
107-06-2	1,2-Dichloroethane	390	U
71-43-2	Benzene	390	U
79-01-6	Trichloroethene	390	U
78-87-5	1,2-Dichloropropane	390	U
75-27-4	Bromodichloromethane	390	U
10061-01-5	cis-1,3-Dichloropropene	390	U
108-10-1	4-Methyl-2-pentanone	390	U
108-88-3	Toluene	390	U
10061-02-6	trans-1,3-Dichloropropene	390	U
79-00-5	1,1,2-Trichloroethane	390	U
127-18-4	Tetrachloroethene	390	U
591-78-6	2-Hexanone	390	U
124-48-1	Dibromochloromethane	390	U
106-93-4	1,2-Dibromoethane	390	U
108-90-7	Chlorobenzene	390	U
100-41-4	Ethylbenzene	390	U
1330-20-7	m,p-Xylene	390	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-04A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4232.D

Level: (TRACE/LOW/MED) MED Date Received: 11/03/2011

% Moisture: not dec. 25 Date Analyzed: 11/04/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
95-47-6	o-Xylene	390	U R
100-42-5	Styrene	390	U
75-25-2	Bromoform	390	U
98-82-8	Isopropylbenzene	190	J
79-34-5	1,1,2,2-Tetrachloroethane	390	U R
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
96-12-8	1,2-Dibromo-3-chloropropane	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	390	U
110-82-7	Cyclohexane	390	U
79-20-9	Methyl acetate	390	U
108-87-2	Methylcyclohexane	410	J

HT

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K2279 Mod. Ref No.: SDG No.: SK2279

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K2279-04A

Sample wt/vol: 5.50 (g/mL) G Lab File ID: V1M4232.D

Level: (TRACE or LOW/MED) MED Date Received: 11/03/2011

% Moisture: not dec. 25 Date Analyzed: 11/04/2011

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	767-58-8	Indan, 1-methyl-	13.910	6400	NJ
02		Unknown (14.07697)	14.077	5000	J
03		Unknown (14.22472)	14.225	5000	J
04	2958-76-1	Naphthalene, decahydro-2-met	14.313	4800	NJ
05		Unknown (14.74675)	14.747	5900	J
06		Unknown (14.93388)	14.934	8200	J
07	1559-81-5	Naphthalene, 1,2,3,4-tetrahy	15.091	4700	NJ
08		Unknown (15.15058)	15.151	5700	J
09		Unknown (15.26877)	15.269	5000	J
10		Unknown (15.62335)	15.623	6300	J
11		Unknown (16.01733)	16.017	6100	J

[1]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H5969.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	J
106-47-8	4-Chloroaniline	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	200	UJ
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	400	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	200	U
208-96-8	Acenaphthylene	570	
606-20-2	2,6-Dinitrotoluene	200	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	390	
51-28-5	2,4-Dinitrophenol	400	UJ
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	250	
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
86-73-7	Fluorene	530	
100-01-6	4-Nitroaniline	400	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H5969.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	400	UJ
86-30-6	N-Nitrosodiphenylamine	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	5900 ~~4600~~	~~E~~
120-12-7	Anthracene	1400	
86-74-8	Carbazole	330	
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	8600 ~~6100~~	~~E~~
129-00-0	Pyrene	8000 ~~6300~~	~~E~~
85-68-7	Butylbenzylphthalate	250	
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	4500 ~~3900~~	~~E~~
218-01-9	Chrysene	4500 ~~3700~~	~~E~~
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	5000 ~~3800~~	~~E~~
207-08-9	Benzo(k)fluoranthene	2000	
50-32-8	Benzo(a)pyrene	3700 ~~3200~~	~~E~~
193-39-5	Indeno(1,2,3-cd)pyrene	2000	
53-70-3	Dibenzo(a,h)anthracene	690	
191-24-2	Benzo(g,h,i)perylene	2300	
92-52-4	1,1'-Biphenyl	200	U
111-11-1	3-Methylphenol + 4-Methylphenol	200	U
98-86-2	Acetophenone	200	U
1912-24-9	Atrazine	200	U
100-52-7	Benzaldehyde	200	UJ
105-60-2	Caprolactam	40	J

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (3-4)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H5969.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	19870-75-8	Cedrane, 8-propoxy-	7.720	1100	NJ
02		Unknown (8.82092)	8.821	1100	J
03	2531-84-2	Phenanthrene, 2-methyl-	8.842	900	NJ
04	203-64-5	4H-Cyclopenta[def]phenanthre	8.912	1800	NJ
05	612-94-2	Naphthalene, 2-phenyl-	9.067	590	NJ
06	84-65-1	9,10-Anthracenedione	9.083	720	NJ
07	781-43-1	9,10-Dimethylanthracene	9.280	1000	NJ
08	5737-13-3	Cyclopenta(def)phenanthrenon	9.350	630	NJ
09	33543-31-6	Fluoranthene, 2-methyl- (9.7	9.788	250	NJ
10	33543-31-6	Fluoranthene, 2-methyl- (9.8	9.879	370	NJ
11	243-17-4	11H-Benzo[b]fluorene	9.932	200	NJ
12	2381-21-7	Pyrene, 1-methyl-	9.964	270	NJ
13	479-79-8	11H-Benzo[a]fluoren-11-one (	10.301	190	NJ
14		Unknown (10.39685)	10.397	180	J
15	195-19-7	Benzo[c]phenanthrene	10.424	200	NJ
16		Unknown (10.44493)	10.445	210	J
17	479-79-8	11H-Benzo[a]fluoren-11-one (	10.482	180	NJ
18	1705-84-6	Triphenylene, 2-methyl-	10.947	270	NJ

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14ADL

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H6039.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	790	U
111-44-4	Bis(2-chloroethyl)ether	790	U
95-57-8	2-Chlorophenol	790	U
95-48-7	2-Methylphenol	790	U
108-60-1	2,2'-oxybis(1-Chloropropane)	790	U
621-64-7	N-Nitroso-di-n-propylamine	790	U
67-72-1	Hexachloroethane	790	U
98-95-3	Nitrobenzene	790	U
78-59-1	Isophorone	790	U
88-75-5	2-Nitrophenol	790	U
105-67-9	2,4-Dimethylphenol	790	U
120-83-2	2,4-Dichlorophenol	790	U
91-20-3	Naphthalene	210	DJ
106-47-8	4-Chloroaniline	790	U
111-91-1	Bis(2-chloroethoxy)methane	790	U
87-68-3	Hexachlorobutadiene	790	U
59-50-7	4-Chloro-3-methylphenol	790	U
91-57-6	2-Methylnaphthalene	790	U
77-47-4	Hexachlorocyclopentadiene	790	U
88-06-2	2,4,6-Trichlorophenol	790	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	790	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	790	U
208-96-8	Acenaphthylene	640	DJ
606-20-2	2,6-Dinitrotoluene	790	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	440	DJ
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	270	DJ
121-14-2	2,4-Dinitrotoluene	790	U
84-66-2	Diethylphthalate	790	U
7005-72-3	4-Chlorophenyl-phenylether	790	U
86-73-7	Fluorene	570	DJ
100-01-6	4-Nitroaniline	1600	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (3-4)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14ADL

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H6039.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine	790	U
101-55-3	4-Bromophenyl-phenylether	790	U
118-74-1	Hexachlorobenzene	790	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	5900	D
120-12-7	Anthracene	1500	D
86-74-8	Carbazole	370	DJ
84-74-2	Di-n-butylphthalate	790	U
206-44-0	Fluoranthene	8600	D
129-00-0	Pyrene	8000	D
85-68-7	Butylbenzylphthalate	280	DJ
91-94-1	3,3'-Dichlorobenzidine	790	U
56-55-3	Benzo(a)anthracene	4500	D
218-01-9	Chrysene	4500	D
117-81-7	Bis(2-ethylhexyl)phthalate	240	DJ
117-84-0	Di-n-octylphthalate	790	U
205-99-2	Benzo(b)fluoranthene	5000	D
207-08-9	Benzo(k)fluoranthene	1800	D
50-32-8	Benzo(a)pyrene	3700	D
193-39-5	Indeno(1,2,3-cd)pyrene	2100	D
53-70-3	Dibenzo(a,h)anthracene	720	DJ
191-24-2	Benzo(g,h,i)perylene	2500	D
92-52-4	1,1'-Biphenyl	790	U
111-11-1	3-Methylphenol + 4-Methylphenol	790	U
98-86-2	Acetophenone	790	U
1912-24-9	Atrazine	790	U
100-52-7	Benzaldehyde	790	U
105-60-2	Caprolactam	790	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (3-4)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-14ADL

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S3H6039.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/20/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 4.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown (7.48257)	7.483	1400	DJ
02	779-02-2	Anthracene, 9-methyl-	8.551	1100	DNJ
03	2531-84-2	Phenanthrene, 2-methyl- (8.5	8.572	1400	DNJ
04		Unknown (8.60977)	8.610	1100	DJ
05	203-64-5	4H-Cyclopenta[def]phenanthre	8.642	1800	DNJ
06	2531-84-2	Phenanthrene, 2-methyl- (8.6	8.658	890	DNJ
07	612-94-2	Naphthalene, 2-phenyl-	8.797	890	DNJ
08	781-43-1	9,10-Dimethylanthracene	9.010	1100	DNJ
09	5737-13-3	Cyclopenta(def)phenanthrenon	9.075	720	DNJ
10	33543-31-6	Fluoranthene, 2-methyl-	9.598	770	DNJ
11	192-97-2	Benzo[e]pyrene (11.27548)	11.275	770	DNJ
12	192-97-2	Benzo[e]pyrene (11.40903)	11.409	2200	DNJ

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H5972.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	U
111-44-4	Bis(2-chloroethyl)ether	1100	U
95-57-8	2-Chlorophenol	1100	U
95-48-7	2-Methylphenol	1100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	U
621-64-7	N-Nitroso-di-n-propylamine	1100	U
67-72-1	Hexachloroethane	1100	U
98-95-3	Nitrobenzene	1100	U
78-59-1	Isophorone	1100	U
88-75-5	2-Nitrophenol	1100	U
105-67-9	2,4-Dimethylphenol	1100	U
120-83-2	2,4-Dichlorophenol	1100	U
91-20-3	Naphthalene	1100	U
106-47-8	4-Chloroaniline	1100	U
111-91-1	Bis(2-chloroethoxy)methane	1100	U
87-68-3	Hexachlorobutadiene	1100	U
59-50-7	4-Chloro-3-methylphenol	1100	U
91-57-6	2-Methylnaphthalene	1100	U
77-47-4	Hexachlorocyclopentadiene	1100	U
88-06-2	2,4,6-Trichlorophenol	1100	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	1100	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	1100	U
208-96-8	Acenaphthylene	7500	
606-20-2	2,6-Dinitrotoluene	1100	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	33000 ~~26000~~	~~E~~
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	1100	U
121-14-2	2,4-Dinitrotoluene	1100	U
84-66-2	Diethylphthalate	1100	U
7005-72-3	4-Chlorophenyl-phenylether	1100	U
86-73-7	Fluorene	15000	
100-01-6	4-Nitroaniline	2200	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H5972.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine	1100	U
101-55-3	4-Bromophenyl-phenylether	1100	U
118-74-1	Hexachlorobenzene	1100	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	43000 ~~30000~~	~~E~~
120-12-7	Anthracene	15000	
86-74-8	Carbazole	1100	U
84-74-2	Di-n-butylphthalate	1100	U
206-44-0	Fluoranthene	34000 ~~24000~~	~~E~~
129-00-0	Pyrene	49000 ~~35000~~	~~E~~
85-68-7	Butylbenzylphthalate	1100	U
91-94-1	3,3´-Dichlorobenzidine	1100	U
56-55-3	Benzo(a)anthracene	15000	
218-01-9	Chrysene	16000	
117-81-7	Bis(2-ethylhexyl)phthalate	1100	U
117-84-0	Di-n-octylphthalate	1100	U
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k)fluoranthene	6200	
50-32-8	Benzo(a)pyrene	12000	
193-39-5	Indeno(1,2,3-cd)pyrene	5700	
53-70-3	Dibenzo(a,h)anthracene	2000	
191-24-2	Benzo(g,h,i)perylene	7400	
92-52-4	1,1´-Biphenyl	1100	U
111-11-1	3-Methylphenol + 4-Methylphenol	1100	U
98-86-2	Acetophenone	1100	U
1912-24-9	Atrazine	1100	U
100-52-7	Benzaldehyde	1100	U
105-60-2	Caprolactam	1100	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (7-7.5)

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H5972.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/16/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	17301-23-4	Undecane, 2,6-dimethyl-	5.696	10000	NJ
02		Unknown (5.88845)	5.888	4700	J
03		Unknown (6.02733)	6.027	14000	J
04		Unknown (6.07008)	6.070	4300	J
05		Unknown (6.11815)	6.118	7100	J
06		Unknown (6.18227)	6.182	6800	J
07		Unknown (6.26238)	6.262	7200	J
08	5617-41-4	Heptylcyclohexane	6.444	4900	NJ
09	638-36-8	Hexadecane, 2,6,10,14-tetram	6.562	15000	NJ
10		Unknown (6.68442)	6.684	4300	J
11	581-42-0	Naphthalene, 2,6-dimethyl-	6.807	9500	NJ
12	571-58-4	Naphthalene, 1,4-dimethyl-	6.877	8100	NJ
13		Unknown (6.95687)	6.957	10000	J
14		Unknown (7.40562)	7.406	7000	J
15	829-26-5	Naphthalene, 2,3,6-trimethyl	7.443	5700	NJ
16		Unknown (7.51245)	7.512	8800	J
17	55045-11-9	Tridecane, 5-propyl-	7.742	11000	NJ
18	1921-70-6	Pentadecane, 2,6,10,14-tetra	7.967	10000	NJ
19	638-36-8	Hexadecane, 2,6,10,14-tetram	8.351	11000	NJ
20		Unknown (8.94415)	8.944	11000	J

[2]EPA-designated Registry Number.

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15ADL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H6042.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/21/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5400	U
111-44-4	Bis(2-chloroethyl)ether	5400	U
95-57-8	2-Chlorophenol	5400	U
95-48-7	2-Methylphenol	5400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5400	U
621-64-7	N-Nitroso-di-n-propylamine	5400	U
67-72-1	Hexachloroethane	5400	U
98-95-3	Nitrobenzene	5400	U
78-59-1	Isophorone	5400	U
88-75-5	2-Nitrophenol	5400	U
105-67-9	2,4-Dimethylphenol	5400	U
120-83-2	2,4-Dichlorophenol	5400	U
91-20-3	Naphthalene	5400	U
106-47-8	4-Chloroaniline	5400	U
111-91-1	Bis(2-chloroethoxy)methane	5400	U
87-68-3	Hexachlorobutadiene	5400	U
59-50-7	4-Chloro-3-methylphenol	5400	U
91-57-6	2-Methylnaphthalene	5400	U
77-47-4	Hexachlorocyclopentadiene	5400	U
88-06-2	2,4,6-Trichlorophenol	5400	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	5400	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	5400	U
208-96-8	Acenaphthylene	7800	D
606-20-2	2,6-Dinitrotoluene	5400	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	33000	D
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	5400	U
121-14-2	2,4-Dinitrotoluene	5400	U
84-66-2	Diethylphthalate	5400	U
7005-72-3	4-Chlorophenyl-phenylether	5400	U
86-73-7	Fluorene	18000	D
100-01-6	4-Nitroaniline	11000	U

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TP-4 (7-7.5)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15ADL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H6042.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/21/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine	5400	U
101-55-3	4-Bromophenyl-phenylether	5400	U
118-74-1	Hexachlorobenzene	5400	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	43000	D
120-12-7	Anthracene	20000	D
86-74-8	Carbazole	5400	U
84-74-2	Di-n-butylphthalate	5400	U
206-44-0	Fluoranthene	34000	D
129-00-0	Pyrene	49000	D
85-68-7	Butylbenzylphthalate	5400	U
91-94-1	3,3´-Dichlorobenzidine	5400	U
56-55-3	Benzo(a)anthracene	18000	D
218-01-9	Chrysene	20000	D
117-81-7	Bis(2-ethylhexyl)phthalate	5400	U
117-84-0	Di-n-octylphthalate	5400	U
205-99-2	Benzo(b)fluoranthene	14000	D
207-08-9	Benzo(k)fluoranthene	7000	D
50-32-8	Benzo(a)pyrene	14000	D
193-39-5	Indeno(1,2,3-cd)pyrene	5900	D
53-70-3	Dibenzo(a,h)anthracene	2200	DJ
191-24-2	Benzo(g,h,i)perylene	8300	D
92-52-4	1,1´-Biphenyl	5400	U
111-11-1	3-Methylphenol + 4-Methylphenol	5400	U
98-86-2	Acetophenone	5400	U
1912-24-9	Atrazine	5400	U
100-52-7	Benzaldehyde	5400	U
105-60-2	Caprolactam	5400	U

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TP-4 (7-7.5)DL

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: K1658-15ADL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3H6042.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 09/14/2011

Concentrated Extract Volume: 1000 (uL) Date Extracted: 09/15/2011

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 09/21/2011

GPC Cleanup: (Y/N) N pH: Dilution Factor: 25.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	17301-23-4	Undecane, 2,6-dimethyl-	5.439	23000	DNJ
02		Unknown (5.77060)	5.771	32000	DJ
03	13287-21-3	Tridecane, 6-methyl-	6.011	14000	DNJ
04	90-12-0	Naphthalene, 1-methyl-	6.070	22000	DNJ
05		Unknown (6.42768)	6.428	11000	DJ
06	571-58-4	Naphthalene, 1,4-dimethyl-	6.609	12000	DNJ
07	17312-82-2	Undecane, 4,6-dimethyl-	6.700	37000	DNJ
08	2131-42-2	Naphthalene, 1,4,6-trimethyl	6.989	16000	DNJ
09	829-26-5	Naphthalene, 2,3,6-trimethyl	7.074	17000	DNJ
10	829-26-5	Naphthalene, 2,3,6-trimethyl	7.106	22000	DNJ
11		Unknown (7.14353)	7.144	18000	DJ
12	829-26-5	Naphthalene, 2,3,6-trimethyl	7.170	14000	DNJ
13		Unknown (7.24503)	7.245	20000	DJ
14	55045-11-9	Tridecane, 5-propyl-	7.480	25000	DNJ
15	1921-70-6	Pentadecane, 2,6,10,14-tetra	7.704	41000	DNJ
16	638-36-8	Hexadecane, 2,6,10,14-tetram	8.089	41000	DNJ
17		Unknown (8.55920)	8.559	16000	DJ
18	613-12-7	Anthracene, 2-methyl-	8.581	24000	DNJ
19	203-64-5	4H-Cyclopenta[def]phenanthre	8.650	33000	DNJ
20	3674-66-6	Phenanthrene, 2,5-dimethyl-	9.024	19000	DNJ

[2]EPA-designated Registry Number.

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

TP-4 (3-4)

Lab Name: Spectrum Analytical, Inc. Contract: 60137362-62

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK1658

Matrix (soil/water): SOIL Lab Sample ID: K1658-14

Level (low/med): MED Date Received: 09/14/2011

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4960			P	
7440-36-0	Antimony	2.8		U	P	ccb
7440-38-2	Arsenic	23.9			P	
7440-39-3	Barium	174			P	
7440-41-7	Beryllium	0.37			P	
7440-43-9	Cadmium	3.7			P	
7440-70-2	Calcium	2160			P	
7440-47-3	Chromium	21.5			P	
7440-48-4	Cobalt	10.3			P	
7440-50-8	Copper	225			P	
7439-89-6	Iron	33700			P	
7439-92-1	Lead	467			P	
7439-95-4	Magnesium	1320			P	
7439-96-5	Manganese	262			P	
7439-97-6	Mercury	0.65		~~N~~ J	CV	RPD, ms.
7440-02-0	Nickel	25.3			P	
7440-09-7	Potassium	600			P	
7782-49-2	Selenium	0.56	U		P	
7440-22-4	Silver	0.056	U		P	
7440-23-5	Sodium	75.8			P	
7440-28-0	Thallium	0.51	~~B~~	J	P	
7440-62-2	Vanadium	28.0			P	
7440-66-6	Zinc	1040			P	

Comments:

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

TP-4 (7-7.5)

Lab Name: Spectrum Analytical, Inc. Contract: 60137362-62

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK1658

Matrix (soil/water): SOIL Lab Sample ID: K1658-15

Level (low/med): MED Date Received: 09/14/2011

% Solids: 74.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6620			P
7440-36-0	Antimony	31.0			P
7440-38-2	Arsenic	25.3			P
7440-39-3	Barium	388			P
7440-41-7	Beryllium	0.31	~~B~~	J	P
7440-43-9	Cadmium	1.0			P
7440-70-2	Calcium	10700			P
7440-47-3	Chromium	34.5			P
7440-48-4	Cobalt	3.9			P
7440-50-8	Copper	286			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	1530			P
7439-95-4	Magnesium	2030			P
7439-96-5	Manganese	196			P
7439-97-6	Mercury	1.5		~~N~~ J	CV
7440-02-0	Nickel	17.2			P
7440-09-7	Potassium	914			P
7782-49-2	Selenium	0.88	~~B~~	J	P
7440-22-4	Silver	0.20	~~B~~	J	P
7440-23-5	Sodium	453			P
7440-28-0	Thallium	0.28	U		P
7440-62-2	Vanadium	21.0			P
7440-66-6	Zinc	620			P

RPD, ms.

Comments:

Sample Identification
TP-2B-1
SB35508-01

Client Project #	Matrix	Collection Date/Time	Received
K1658	Soil	09-Sep-11 08:55	15-Sep-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	80.4		%			1	SM2540 G Mod.	20-Sep-11	20-Sep-11	DT	1119054	
57-12-5	Cyanide (weak acid dissociable)	0.461	J	mg/kg dry	1.22	0.254	1	SW846 9012B	20-Sep-11	20-Sep-11	eemon	1119000	

Sample Identification
TP-2B-2 (7-7.5')
SB35508-02

Client Project #	Matrix	Collection Date/Time	Received
K1658	Soil	09-Sep-11 08:55	15-Sep-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	87.2		%			1	SM2540 G Mod.	20-Sep-11	20-Sep-11	DT	1119054	
57-12-5	Cyanide (weak acid dissociable)	0.525	J	mg/kg dry	1.18	0.245	1	SW846 9012B	20-Sep-11	20-Sep-11	eemon	1119000	

Sample Identification
TP-4 (3-4)
SB35508-03

Client Project #	Matrix	Collection Date/Time	Received
K1658	Soil	09-Sep-11 14:30	15-Sep-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	82.7		%			1	SM2540 G Mod.	20-Sep-11	20-Sep-11	DT	1119054	
57-12-5	Cyanide (weak acid dissociable)	0.492	J	mg/kg dry	1.11	0.230	1	SW846 9012B	20-Sep-11	20-Sep-11	eemon	1119000	

Sample Identification
TP-4 (7-7.5')
SB35508-04

Client Project #	Matrix	Collection Date/Time	Received
K1658	Soil	09-Sep-11 14:10	15-Sep-11

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	68.2		%			1	SM2540 G Mod.	20-Sep-11	20-Sep-11	DT	1119054	
57-12-5	Cyanide (weak acid dissociable)	0.853	J	mg/kg dry	1.51	0.314	1	SW846 9012B	20-Sep-11	20-Sep-11	eemon	1119000	

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-22 (0'-5')**

Lab Sample ID: 460-31578-1
Client Matrix: Solid
% Moisture: 13.0

Date Sampled: 09/19/2011 1600
Date Received: 09/23/2011 1430

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87507	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87461	Lab File ID:	o52126.d
Dilution:	1.0			Initial Weight/Volume:	5.22 g
Analysis Date:	09/28/2011 0525			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 1613				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.1	U	0.82	1.1
Toluene		1.1	U	0.33	1.1
Ethylbenzene		1.1	U	0.21	1.1
Xylenes, Total		3.3	U	0.87	3.3
Styrene		1.1	U	0.38	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 138
Bromofluorobenzene	103		72 - 132
Toluene-d8 (Surr)	112		66 - 126

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-21 (0'-5')**

Lab Sample ID: 460-31578-2
Client Matrix: Solid
% Moisture: 22.7

Date Sampled: 09/22/2011 0800
Date Received: 09/23/2011 1430

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87552	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87461	Lab File ID:	o52147.d
Dilution:	1.0			Initial Weight/Volume:	5.82 g
Analysis Date:	09/28/2011 1424			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 1616				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.1	U	0.82	1.1
Toluene		1.1	U	0.33	1.1
Ethylbenzene		1.1	U	0.21	1.1
Xylenes, Total		3.3	U	0.87	3.3
Styrene		1.1	U	0.38	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 138
Bromofluorobenzene	107		72 - 132
Toluene-d8 (Surr)	113		66 - 126

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (98)**

Lab Sample ID: 460-31578-3
Client Matrix: Solid
% Moisture: 48.4

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87959	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-87451	Lab File ID:	j04186.d
Dilution:	100			Initial Weight/Volume:	5.96 g
Analysis Date:	10/01/2011 1200			Final Weight/Volume:	10 mL
Prep Date:	09/27/2011 1526				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		120000		39	330
Toluene		90000		31	330
Ethylbenzene		48000		80	330
Xylenes, Total		44000		140	980
Styrene		2500		45	330

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81		57 - 135
Bromofluorobenzene	70		50 - 124
Toluene-d8 (Surr)	73		46 - 130

Client: AECOM, Inc. Job Number: 460-31578-1

Client Sample ID: **SB-29 (98-100)**

Lab Sample ID: 460-31578-4 Date Sampled: 09/23/2011 1430
Client Matrix: Solid % Moisture: 17.5 Date Received: 09/23/2011 1430

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87507	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87461	Lab File ID:	o52124.d
Dilution:	1.0			Initial Weight/Volume:	5.54 g
Analysis Date:	09/28/2011 0434			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 1618				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		0.88	J	0.81	1.1
Toluene		1.5		0.33	1.1
Ethylbenzene		0.94	J	0.21	1.1
Xylenes, Total		1.6	J	0.86	3.3
Styrene		1.1	U	0.38	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 138
Bromofluorobenzene	100		72 - 132
Toluene-d8 (Surr)	112		66 - 126

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (0-5)**

Lab Sample ID: 460-31578-5
Client Matrix: Solid
% Moisture: 13.3

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87507	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87461	Lab File ID:	o52125.d
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Analysis Date:	09/28/2011 0459			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 1620				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		42		0.85	1.1
Toluene		49		0.34	1.1
Ethylbenzene		19		0.22	1.1
Xylenes, Total		34		0.90	3.4
Styrene		10		0.40	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	126		70 - 138
Bromofluorobenzene	108		72 - 132
Toluene-d8 (Surr)	97		66 - 126

Client: AECOM, Inc. Job Number: 460-31578-1

Client Sample ID: **SB-22 (0'-5')**

Lab Sample ID: 460-31578-1 Date Sampled: 09/19/2011 1600
Client Matrix: Solid % Moisture: 13.0 Date Received: 09/23/2011 1430

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87781	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-87330	Lab File ID:	p19692.d
Dilution:	2.0			Initial Weight/Volume:	15.00 g
Analysis Date:	09/28/2011 2124			Final Weight/Volume:	1 mL
Prep Date:	09/26/2011 1613			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		810		110	760
Acenaphthylene		360	J	110	760
Acenaphthene		760		110	760
Fluorene		790		130	760
Phenanthrene		8300		130	760
Anthracene		1900		130	760
Fluoranthene		11000		130	760
Pyrene		9300		130	760
Benzo[a]anthracene		4800		14	76
Chrysene		4800		110	760
Benzo[b]fluoranthene		4900		11	76
Benzo[k]fluoranthene		1800		11	76
Benzo[a]pyrene		4400		9.4	76
Indeno[1,2,3-cd]pyrene		3800		12	76
Dibenz(a,h)anthracene		930		9.2	76
Benzo[g,h,i]perylene		3600		80	760

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		38 - 105
Terphenyl-d14	69		16 - 151
2-Fluorobiphenyl	71		40 - 109

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-21 (0'-5')**

Lab Sample ID: 460-31578-2
Client Matrix: Solid
% Moisture: 22.7

Date Sampled: 09/22/2011 0800
Date Received: 09/23/2011 1430

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87541	Instrument ID:	BNAMS4
Prep Method:	3541	Prep Batch:	460-87330	Lab File ID:	u70469.d
Dilution:	5.0			Initial Weight/Volume:	15.02 g
Analysis Date:	09/27/2011 2047			Final Weight/Volume:	1 mL
Prep Date:	09/26/2011 1613			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		320	J	310	2100
Acenaphthylene		2100	U	310	2100
Acenaphthene		1600	J	300	2100
Fluorene		1900	J	360	2100
Phenanthrene		16000		370	2100
Anthracene		5600		380	2100
Fluoranthene		11000		360	2100
Pyrene		19000		370	2100
Benzo[a]anthracene		8300		40	210
Chrysene		9800		310	2100
Benzo[b]fluoranthene		7300		32	210
Benzo[k]fluoranthene		3700		30	210
Benzo[a]pyrene		7600		26	210
Indeno[1,2,3-cd]pyrene		4700 J	cc✓	34	210
Dibenz(a,h)anthracene		1400		26	210
Benzo[g,h,i]perylene		6200 J	cc✓	230	2100

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		38 - 105
Terphenyl-d14	76		16 - 151
2-Fluorobiphenyl	89		40 - 109

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (98)**

Lab Sample ID: 460-31578-3
Client Matrix: Solid

% Moisture: 48.4

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87722	Instrument ID:	BNAMS4
Prep Method:	3541	Prep Batch:	460-87330	Lab File ID:	u70496.d
Dilution:	10			Initial Weight/Volume:	15.01 g
Analysis Date:	09/28/2011 0741	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	09/26/2011 1613			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		99000	D	940	6400
Acenaphthylene		10000	D	920	6400
Acenaphthene		1300	J D	910	6400
Fluorene		6500	D	1100	6400
Phenanthrene		18000	D	1100	6400
Anthracene		4800	J D	1100	6400
Fluoranthene		2900	J D	1100	6400
Pyrene		9000	D	1100	6400
Benzo[a]anthracene		2200	D	120	640
Chrysene		2700	J D	930	6400
Benzo[b]fluoranthene		1100	D	95	640
Benzo[k]fluoranthene		640	D	90	640
Benzo[a]pyrene		1800	D	79	640
Indeno[1,2,3-cd]pyrene		480	J D	100	640
Dibenz(a,h)anthracene		640	U	77	640
Benzo[g,h,i]perylene		680	J D	680	6400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	D	38 - 105
Terphenyl-d14	0	D	16 - 151
2-Fluorobiphenyl	0	D	40 - 109

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (98-100)**

Lab Sample ID: 460-31578-4
Client Matrix: Solid
% Moisture: 17.5

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87541	Instrument ID:	BNAMS4
Prep Method:	3541	Prep Batch:	460-87330	Lab File ID:	u70454.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Analysis Date:	09/27/2011 1455			Final Weight/Volume:	1 mL
Prep Date:	09/26/2011 1613			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		400	U	59	400
Acenaphthylene		400	U	57	400
Acenaphthene		400	U	57	400
Fluorene		81	J	68	400
Phenanthrene		410		70	400
Anthracene		400	U	71	400
Fluoranthene		130	J	67	400
Pyrene		380	J	69	400
Benzo[a]anthracene		85		7.4	40
Chrysene		110	J	58	400
Benzo[b]fluoranthene		59		6.0	40
Benzo[k]fluoranthene		40	U	5.6	40
Benzo[a]pyrene		64		4.9	40
Indeno[1,2,3-cd]pyrene		40	U	6.4	40
Dibenz(a,h)anthracene		40	U	4.8	40
Benzo[g,h,i]perylene		400	U	42	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Terphenyl-d14	79		16 - 151
2-Fluorobiphenyl	76		40 - 109

Client: AECOM, Inc. Job Number: 460-31578-1

Client Sample ID: **SB-29 (0-5)**

Lab Sample ID: 460-31578-5 Date Sampled: 09/23/2011 1430
Client Matrix: Solid % Moisture: 13.3 Date Received: 09/23/2011 1430

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87541	Instrument ID:	BNAMS4
Prep Method:	3541	Prep Batch:	460-87330	Lab File ID:	u70473.d
Dilution:	2.0			Initial Weight/Volume:	15.01 g
Analysis Date:	09/27/2011 2203			Final Weight/Volume:	1 mL
Prep Date:	09/26/2011 1613			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		3200		110	760
Acenaphthylene		180	J	110	760
Acenaphthene		1200		110	760
Fluorene		1200		130	760
Phenanthrene		9300		130	760
Anthracene		2700		130	760
Fluoranthene		5500		130	760
Pyrene		7300		130	760
Benzo[a]anthracene		4000		14	76
Chrysene		4000		110	760
Benzo[b]fluoranthene		3600		11	76
Benzo[k]fluoranthene		1600		11	76
Benzo[a]pyrene		3200		9.4	76
Indeno[1,2,3-cd]pyrene		1400 J ccv		12	76
Dibenz(a,h)anthracene		490		9.2	76
Benzo[g,h,i]perylene		1300 J ccv		80	760

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		38 - 105
Terphenyl-d14	61		16 - 151
2-Fluorobiphenyl	92		40 - 109

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-22 (0'-5')**

Lab Sample ID: 460-31578-1
Client Matrix: Solid
% Moisture: 13.0

Date Sampled: 09/19/2011 1600
Date Received: 09/23/2011 1430

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87592	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87475	Lab File ID:	09282011.asc
Dilution:	4.0			Initial Weight/Volume:	1.04 g
Analysis Date:	09/28/2011 1218			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		31.6		0.77	1.1
Lead		576		0.55	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	10			Initial Weight/Volume:	0.63 g
Analysis Date:	09/30/2011 2226			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		9.2		0.24	0.36

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-21 (0'-5')**

Lab Sample ID: 460-31578-2
Client Matrix: Solid

% Moisture: 22.7

Date Sampled: 09/22/2011 0800
Date Received: 09/23/2011 1430

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87592	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87475	Lab File ID:	09282011.asc
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/28/2011 1221			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.6		0.86	1.2
Lead		329		0.62	1.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	09/30/2011 2228			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.042	U	0.028	0.042

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (98)**

Lab Sample ID: 460-31578-3
Client Matrix: Solid

% Moisture: 48.4

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87592	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87475	Lab File ID:	09282011.asc
Dilution:	4.0			Initial Weight/Volume:	1.00 g
Analysis Date:	09/28/2011 1232			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		10.9		1.3	1.9
Lead		8.3		0.97	1.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	09/30/2011 2145			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.057	U	0.038	0.057

Client: AECOM, Inc.

Job Number: 460-31578-1

Client Sample ID: **SB-29 (98-100)**

Lab Sample ID: 460-31578-4
Client Matrix: Solid

% Moisture: 17.5

Date Sampled: 09/23/2011 1430
Date Received: 09/23/2011 1430

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87592	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87475	Lab File ID:	09282011.asc
Dilution:	4.0			Initial Weight/Volume:	1.07 g
Analysis Date:	09/28/2011 1236			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.1		0.79	1.1
Lead		10.0		0.57	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	09/30/2011 2136			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.040	U	0.027	0.040

Client: AECOM, Inc. Job Number: 460-31578-1

Client Sample ID: **SB-29 (0-5)**

Lab Sample ID: 460-31578-5 Date Sampled: 09/23/2011 1430
Client Matrix: Solid % Moisture: 13.3 Date Received: 09/23/2011 1430

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87592	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87475	Lab File ID:	09282011.asc
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/28/2011 1240			Final Weight/Volume:	50 mL
Prep Date:	09/27/2011 1830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.5		0.76	1.1
Lead		274		0.55	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	09/30/2011 2147			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.037	U	0.025	0.037

General Chemistry

Client Sample ID: SB-22 (0'-5')

Lab Sample ID: 460-31578-1 Date Sampled: 09/19/2011 1600
Client Matrix: Solid % Moisture: 13.0 Date Received: 09/23/2011 1430

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.44	J	mg/Kg	0.13	0.57	1.0	9012A
Analysis Batch: 460-87908	Analysis Date: 09/30/2011 1418						DryWt Corrected: Y
Prep Batch: 460-87844	Prep Date: 09/30/2011 0900						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.0		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N
Percent Solids	87.0		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-21 (0'-5')**

Lab Sample ID: 460-31578-2 Date Sampled: 09/22/2011 0800
Client Matrix: Solid % Moisture: 22.7 Date Received: 09/23/2011 1430

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.27	J	mg/Kg	0.14	0.65	1.0	9012A
Analysis Batch: 460-87908	Analysis Date: 09/30/2011 1420						DryWt Corrected: Y
Prep Batch: 460-87844	Prep Date: 09/30/2011 0900						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N
Percent Solids	77.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N

General Chemistry

Client Sample ID: SB-29 (98)

Lab Sample ID: 460-31578-3 Date Sampled: 09/23/2011 1430

Client Matrix: Solid % Moisture: 48.4 Date Received: 09/23/2011 1430

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.97	U	mg/Kg	0.22	0.97	1.0	9012A
Analysis Batch: 460-87908	Analysis Date: 09/30/2011 1421						DryWt Corrected: Y
Prep Batch: 460-87844	Prep Date: 09/30/2011 0900						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	48.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N
Percent Solids	51.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-29 (98-100)**

Lab Sample ID: 460-31578-4 Date Sampled: 09/23/2011 1430

Client Matrix: Solid % Moisture: 17.5 Date Received: 09/23/2011 1430

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.61	U	mg/Kg	0.13	0.61	1.0	9012A
Analysis Batch: 460-87908	Analysis Date: 09/30/2011 1422						DryWt Corrected: Y
Prep Batch: 460-87844	Prep Date: 09/30/2011 0900						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N
Percent Solids	82.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-29 (0-5)**

Lab Sample ID: 460-31578-5 Date Sampled: 09/23/2011 1430
Client Matrix: Solid % Moisture: 13.3 Date Received: 09/23/2011 1430

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.16	J	mg/Kg	0.13	0.58	1.0	9012A
Analysis Batch: 460-87908	Analysis Date: 09/30/2011 1426						DryWt Corrected: Y
Prep Batch: 460-87844	Prep Date: 09/30/2011 0900						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N
Percent Solids	86.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87302	Analysis Date: 09/26/2011 1633						DryWt Corrected: N

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (1-2)**

Lab Sample ID: 460-31629-1 Date Sampled: 09/24/2011 1530
Client Matrix: Solid % Moisture: 14.3 Date Received: 09/26/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87791	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-87478	Lab File ID:	j04115.d
Dilution:	50			Initial Weight/Volume:	5.70 g
Analysis Date:	09/30/2011 0229			Final Weight/Volume:	10 mL
Prep Date:	09/27/2011 1857				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		18	J	12	100
Toluene		83	J	9.7	100
Ethylbenzene		110		25	100
Xylenes, Total		390		44	310
Styrene		100	U	14	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		57 - 135
Bromofluorobenzene	102		50 - 124
Toluene-d8 (Surr)	97		46 - 130

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (72.5-75)**

Lab Sample ID: 460-31629-2 Date Sampled: 09/25/2011 1330
Client Matrix: Solid % Moisture: 15.0 Date Received: 09/26/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87924	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-87478	Lab File ID:	j04152.d
Dilution:	50			Initial Weight/Volume:	5.60 g
Analysis Date:	09/30/2011 1948			Final Weight/Volume:	10 mL
Prep Date:	09/27/2011 1858				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		65	J	12	110
Toluene		99	J	9.9	110
Ethylbenzene		270		26	110
Xylenes, Total		430		46	320
Styrene		160		15	110

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		57 - 135
Bromofluorobenzene	110		50 - 124
Toluene-d8 (Surr)	104		46 - 130

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (108-110)**

Lab Sample ID: 460-31629-3 Date Sampled: 09/25/2011 1530
Client Matrix: Solid % Moisture: 24.3 Date Received: 09/26/2011 1310

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87949	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87483	Lab File ID:	o52278.d
Dilution:	1.0			Initial Weight/Volume:	5.25 g
Analysis Date:	10/01/2011 0208			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 1914				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		26		0.93	1.3
Toluene		18		0.38	1.3
Ethylbenzene		6.3		0.24	1.3
Xylenes, Total		20		0.99	3.8
Styrene		4.4		0.44	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 138
Bromofluorobenzene	102		72 - 132
Toluene-d8 (Surr)	106		66 - 126

Client: AECOM, Inc.

Job Number: 460-31629-1

Client Sample ID: **SB-20 (1-2)**

Lab Sample ID: 460-31629-1
Client Matrix: Solid
% Moisture: 14.3

Date Sampled: 09/24/2011 1530
Date Received: 09/26/2011 1310

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87781	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-87462	Lab File ID:	p19693.d
Dilution:	5.0			Initial Weight/Volume:	15.02 g
Analysis Date:	09/28/2011 2150			Final Weight/Volume:	1 mL
Prep Date:	09/27/2011 1627			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		610	J	280	1900
Acenaphthylene		1900	U	280	1900
Acenaphthene		770	J	270	1900
Fluorene		1700	J	330	1900
Phenanthrene		4500		340	1900
Anthracene		950	J	340	1900
Fluoranthene		3400		320	1900
Pyrene		3800		330	1900
Benzo[a]anthracene		1800		36	190
Chrysene		1700	J	280	1900
Benzo[b]fluoranthene		1800J LCS	*	29	190
Benzo[k]fluoranthene		780		27	190
Benzo[a]pyrene		1600J LCS	*	24	190
Indeno[1,2,3-cd]pyrene		1500		31	190
Dibenz(a,h)anthracene		400		23	190
Benzo[g,h,i]perylene		1400	J	200	1900

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		38 - 105
Terphenyl-d14	72		16 - 151
2-Fluorobiphenyl	69		40 - 109

Client: AECOM, Inc.

Job Number: 460-31629-1

Client Sample ID: **SB-20 (72.5-75)**

Lab Sample ID: 460-31629-2
Client Matrix: Solid

% Moisture: 15.0

Date Sampled: 09/25/2011 1330
Date Received: 09/26/2011 1310

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87781	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-87462	Lab File ID:	p19687.d
Dilution:	2.0			Initial Weight/Volume:	15.02 g
Analysis Date:	09/28/2011 1914			Final Weight/Volume:	1 mL
Prep Date:	09/27/2011 1627			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)		Qualifier	MDL	RL
Naphthalene		2900			110	780
Acenaphthylene		2400			110	780
Acenaphthene		290		J	110	780
Fluorene		2000			130	780
Phenanthrene		9200			140	780
Anthracene		2400			140	780
Fluoranthene		2800			130	780
Pyrene		4800			130	780
Benzo[a]anthracene		2000			14	78
Chrysene		2100			110	780
Benzo[b]fluoranthene		1000 J	LCS	*	12	78
Benzo[k]fluoranthene		460			11	78
Benzo[a]pyrene		1400 J	LCS	*	9.6	78
Indeno[1,2,3-cd]pyrene		490			12	78
Dibenz(a,h)anthracene		110			9.4	78
Benzo[g,h,i]perylene		500		J	82	780

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	64		38 - 105
Terphenyl-d14	74		16 - 151
2-Fluorobiphenyl	69		40 - 109

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (108-110)**

Lab Sample ID: 460-31629-3 Date Sampled: 09/25/2011 1530
Client Matrix: Solid % Moisture: 24.3 Date Received: 09/26/2011 1310

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-87722	Instrument ID:	BNAMS4
Prep Method:	3541	Prep Batch:	460-87462	Lab File ID:	u70493.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Analysis Date:	09/28/2011 0643			Final Weight/Volume:	1 mL
Prep Date:	09/27/2011 1627			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)		Qualifier	MDL	RL
Naphthalene		1000			64	440
Acenaphthylene		200		J	62	440
Acenaphthene		440		U	62	440
Fluorene		140		J	74	440
Phenanthrene		420		J	76	440
Anthracene		110		J	77	440
Fluoranthene		79		J	73	440
Pyrene		310		J	75	440
Benzo[a]anthracene		96			8.1	44
Chrysene		97		J	63	440
Benzo[b]fluoranthene		44 J	LCS	*	6.5	44
Benzo[k]fluoranthene		21		J	6.1	44
Benzo[a]pyrene		56 J	LCS	*	5.4	44
Indeno[1,2,3-cd]pyrene		44		U	7.0	44
Dibenz(a,h)anthracene		44		U	5.3	44
Benzo[g,h,i]perylene		440		U	46	440

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	54		38 - 105
Terphenyl-d14	99		16 - 151
2-Fluorobiphenyl	71		40 - 109

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (1-2)**

Lab Sample ID: 460-31629-1 Date Sampled: 09/24/2011 1530
Client Matrix: Solid % Moisture: 14.3 Date Received: 09/26/2011 1310

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87983	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87829	Lab File ID:	09302011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.02 g
Analysis Date:	09/30/2011 1952			Final Weight/Volume:	50 mL
Prep Date:	09/30/2011 0707				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		16.5		0.80	1.1
Lead		260		0.57	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	09/30/2011 2149			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.40		0.023	0.035

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (72.5-75)**

Lab Sample ID: 460-31629-2 Date Sampled: 09/25/2011 1330
Client Matrix: Solid % Moisture: 15.0 Date Received: 09/26/2011 1310

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87983	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87829	Lab File ID:	09302011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	09/30/2011 2003			Final Weight/Volume:	50 mL
Prep Date:	09/30/2011 0707				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		5.7		0.78	1.1
Lead		2.0		0.56	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	09/30/2011 2155			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.039	U	0.026	0.039

Client: AECOM, Inc. Job Number: 460-31629-1

Client Sample ID: **SB-20 (108-110)**

Lab Sample ID: 460-31629-3 Date Sampled: 09/25/2011 1530
Client Matrix: Solid % Moisture: 24.3 Date Received: 09/26/2011 1310

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-87983	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-87829	Lab File ID:	09302011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.03 g
Analysis Date:	09/30/2011 2007			Final Weight/Volume:	50 mL
Prep Date:	09/30/2011 0707				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.9		0.89	1.3
Lead		12.3		0.64	1.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-87946	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-87926	Lab File ID:	093011.PRN
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	09/30/2011 2157			Final Weight/Volume:	100 mL
Prep Date:	09/30/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.040	U	0.026	0.040

General Chemistry

Client Sample ID: **SB-20 (1-2)**

Lab Sample ID: 460-31629-1 Date Sampled: 09/24/2011 1530
Client Matrix: Solid % Moisture: 14.3 Date Received: 09/26/2011 1310

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.80		mg/Kg	0.13	0.58	1.0	9012A
Analysis Batch: 460-88078	Analysis Date: 10/03/2011 1515						DryWt Corrected: Y
Prep Batch: 460-88031	Prep Date: 10/03/2011 0945						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N
Percent Solids	85.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-20 (72.5-75)**

Lab Sample ID: 460-31629-2 Date Sampled: 09/25/2011 1330
Client Matrix: Solid % Moisture: 15.0 Date Received: 09/26/2011 1310

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.59	U	mg/Kg	0.13	0.59	1.0	9012A
Analysis Batch: 460-88078	Analysis Date: 10/03/2011 1516						DryWt Corrected: Y
Prep Batch: 460-88031	Prep Date: 10/03/2011 0945						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	15.0		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N
Percent Solids	85.0		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-20 (108-110)**

Lab Sample ID: 460-31629-3 Date Sampled: 09/25/2011 1530
Client Matrix: Solid % Moisture: 24.3 Date Received: 09/26/2011 1310

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.66	U	mg/Kg	0.15	0.66	1.0	9012A
Analysis Batch: 460-88078	Analysis Date: 10/03/2011 1517						DryWt Corrected: Y
Prep Batch: 460-88031	Prep Date: 10/03/2011 0945						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	24.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N
Percent Solids	75.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87429	Analysis Date: 09/27/2011 1601						DryWt Corrected: N

Client: AECOM, Inc. Job Number: 460-31654-1

Client Sample ID: **SB-23 (89-90)**

Lab Sample ID: 460-31654-1 Date Sampled: 09/27/2011 1030
Client Matrix: Solid % Moisture: 16.6 Date Received: 09/27/2011 1420

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87957	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87495	Lab File ID:	o52294.d
Dilution:	1.0			Initial Weight/Volume:	5.29 g
Analysis Date:	10/01/2011 0901			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 2221				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.1	U	0.84	1.1
Toluene		1.1	U	0.34	1.1
Ethylbenzene		1.1	U	0.22	1.1
Xylenes, Total		3.4	U	0.89	3.4
Styrene		1.1	U	0.39	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 138
Bromofluorobenzene	83		72 - 132
Toluene-d8 (Surr)	85		66 - 126

Client: AECOM, Inc.

Job Number: 460-31654-1

Client Sample ID: **Sb-23 (90-92.5)**

Lab Sample ID: 460-31654-2
Client Matrix: Solid
% Moisture: 26.2

Date Sampled: 09/27/2011 1030
Date Received: 09/27/2011 1420

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-87949	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-87495	Lab File ID:	o52282.d
Dilution:	1.0			Initial Weight/Volume:	5.79 g
Analysis Date:	10/01/2011 0348			Final Weight/Volume:	5 mL
Prep Date:	09/27/2011 2222				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.2	U	0.87	1.2
Toluene		1.2	U	0.35	1.2
Ethylbenzene		1.2	U	0.22	1.2
Xylenes, Total		3.5	U	0.92	3.5
Styrene		1.2	U	0.40	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	126		70 - 138
Bromofluorobenzene	103		72 - 132
Toluene-d8 (Surr)	106		66 - 126

Client: AECOM, Inc. Job Number: 460-31654-1

Client Sample ID: **SB-23 (89-90)**

Lab Sample ID: 460-31654-1 Date Sampled: 09/27/2011 1030
Client Matrix: Solid % Moisture: 16.6 Date Received: 09/27/2011 1420

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-88037	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-87990	Lab File ID:	p19829.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Analysis Date:	10/03/2011 0249			Final Weight/Volume:	1 mL
Prep Date:	10/02/2011 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		400	U	58	400
Acenaphthylene		400	U	57	400
Acenaphthene		400	U	56	400
Fluorene		400	U	67	400
Phenanthrene		400	U	69	400
Anthracene		400	U	70	400
Fluoranthene		400	U	66	400
Pyrene		400	U	69	400
Benzo[a]anthracene		40	U	7.3	40
Chrysene		400	U	58	400
Benzo[b]fluoranthene		40	U	5.9	40
Benzo[k]fluoranthene		40	U	5.6	40
Benzo[a]pyrene		40	U	4.9	40
Indeno[1,2,3-cd]pyrene		40	U	6.3	40
Dibenz(a,h)anthracene		40	U	4.8	40
Benzo[g,h,i]perylene		400	U	42	400

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		38 - 105
Terphenyl-d14	102		16 - 151
2-Fluorobiphenyl	79		40 - 109

Client: AECOM, Inc. Job Number: 460-31654-1

Client Sample ID: **Sb-23 (90-92.5)**

Lab Sample ID: 460-31654-2 Date Sampled: 09/27/2011 1030
Client Matrix: Solid % Moisture: 26.2 Date Received: 09/27/2011 1420

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-88037	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-87990	Lab File ID:	p19830.d
Dilution:	1.0			Initial Weight/Volume:	15.05 g
Analysis Date:	10/03/2011 0316			Final Weight/Volume:	1 mL
Prep Date:	10/02/2011 1300			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		450	U	65	450
Acenaphthylene		450	U	64	450
Acenaphthene		450	U	64	450
Fluorene		450	U	76	450
Phenanthrene		450	U	78	450
Anthracene		450	U	79	450
Fluoranthene		450	U	74	450
Pyrene		450	U	77	450
Benzo[a]anthracene		45	U	8.3	45
Chrysene		450	U	65	450
Benzo[b]fluoranthene		45	U	6.6	45
Benzo[k]fluoranthene		45	U	6.3	45
Benzo[a]pyrene		45	U	5.5	45
Indeno[1,2,3-cd]pyrene		45	U	7.1	45
Dibenz(a,h)anthracene		45	U	5.4	45
Benzo[g,h,i]perylene		450	U	47	450

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		38 - 105
Terphenyl-d14	94		16 - 151
2-Fluorobiphenyl	72		40 - 109

Client: AECOM, Inc.

Job Number: 460-31654-1

Client Sample ID: **SB-23 (89-90)**

Lab Sample ID: 460-31654-1
Client Matrix: Solid

% Moisture: 16.6

Date Sampled: 09/27/2011 1030
Date Received: 09/27/2011 1420

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-88083	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-88001	Lab File ID:	10032011.asc
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	10/03/2011 1423			Final Weight/Volume:	50 mL
Prep Date:	10/03/2011 0714				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.3		0.79	1.1
Lead		2.6		0.57	1.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-88109	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-88100	Lab File ID:	100311.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	10/03/2011 2135			Final Weight/Volume:	100 mL
Prep Date:	10/03/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.039	U	0.026	0.039

Client: AECOM, Inc.

Job Number: 460-31654-1

Client Sample ID: **Sb-23 (90-92.5)**

Lab Sample ID: 460-31654-2
Client Matrix: Solid

% Moisture: 26.2

Date Sampled: 09/27/2011 1030
Date Received: 09/27/2011 1420

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-88083	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-88001	Lab File ID:	10032011.asc
Dilution:	4.0			Initial Weight/Volume:	1.09 g
Analysis Date:	10/03/2011 1427			Final Weight/Volume:	50 mL
Prep Date:	10/03/2011 0714				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		10.9		0.87	1.2
Lead		12.1		0.62	1.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-88109	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-88100	Lab File ID:	100311.PRN
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	10/03/2011 2140			Final Weight/Volume:	100 mL
Prep Date:	10/03/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.041	U	0.027	0.041

General Chemistry

Client Sample ID: **SB-23 (89-90)**

Lab Sample ID: 460-31654-1 Date Sampled: 09/27/2011 1030
Client Matrix: Solid % Moisture: 16.6 Date Received: 09/27/2011 1420

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.60	U	mg/Kg	0.13	0.60	1.0	9012A
Analysis Batch: 460-88317	Analysis Date: 10/05/2011 1030						DryWt Corrected: Y
Prep Batch: 460-88302	Prep Date: 10/05/2011 0800						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87577	Analysis Date: 09/28/2011 1438						DryWt Corrected: N
Percent Solids	83.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87577	Analysis Date: 09/28/2011 1438						DryWt Corrected: N

General Chemistry

Client Sample ID: **Sb-23 (90-92.5)**

Lab Sample ID: 460-31654-2 Date Sampled: 09/27/2011 1030
Client Matrix: Solid % Moisture: 26.2 Date Received: 09/27/2011 1420

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Total	0.68	U	mg/Kg	0.15	0.68	1.0	9012A
Analysis Batch: 460-88317	Analysis Date: 10/05/2011 1031						DryWt Corrected: Y
Prep Batch: 460-88302	Prep Date: 10/05/2011 0800						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	26.2		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87577	Analysis Date: 09/28/2011 1438						DryWt Corrected: N
Percent Solids	73.8		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-87577	Analysis Date: 09/28/2011 1438						DryWt Corrected: N

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (84-85)**

Lab Sample ID: 460-32732-1 Date Sampled: 10/20/2011 1620
Client Matrix: Solid % Moisture: 12.3 Date Received: 10/21/2011 1856

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-90927	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-90731	Lab File ID:	o53097.d
Dilution:	1.0			Initial Weight/Volume:	5.87 g
Analysis Date:	10/27/2011 1717			Final Weight/Volume:	5 mL
Prep Date:	10/25/2011 2014				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		12		0.72	0.97
Toluene		3.7		0.29	0.97
Ethylbenzene		6.6		0.19	0.97
Xylenes, Total		11		0.76	2.9
Styrene		7.0		0.34	0.97

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 138
Bromofluorobenzene	82		72 - 132
Toluene-d8 (Surr)	86		66 - 126

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (107.5-110)**

Lab Sample ID: 460-32732-2 Date Sampled: 10/20/2011 1700
Client Matrix: Solid % Moisture: 19.5 Date Received: 10/21/2011 1856

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-90898	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-90718	Lab File ID:	j04939.d
Dilution:	50			Initial Weight/Volume:	5.64 g
Analysis Date:	10/27/2011 0327			Final Weight/Volume:	10 mL
Prep Date:	10/25/2011 1819				

Analyte	DryWt Corrected: Y	Result (ug/Kg)		Qualifier	MDL	RL
Benzene		490 J	MS		13	110
Toluene		1300 J	MS		10	110
Ethylbenzene		150			27	110
Xylenes, Total		1200 J	MS		48	330
Styrene		66		J	15	110

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		57 - 135
Bromofluorobenzene	104		50 - 124
Toluene-d8 (Surr)	106		46 - 130

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (84-85)**

Lab Sample ID: 460-32732-1 Date Sampled: 10/20/2011 1620
Client Matrix: Solid % Moisture: 12.3 Date Received: 10/21/2011 1856

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-90793	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-90567	Lab File ID:	p20609.d
Dilution:	1.0			Initial Weight/Volume:	15.05 g
Analysis Date:	10/26/2011 0501			Final Weight/Volume:	1 mL
Prep Date:	10/24/2011 1200			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		200	J	55	380
Acenaphthylene		380	U	54	380
Acenaphthene		380	U	54	380
Fluorene		380	U	64	380
Phenanthrene		380	U	66	380
Anthracene		380	U	66	380
Fluoranthene		380	U	63	380
Pyrene		380	U	65	380
Benzo[a]anthracene		38	U	7.0	38
Chrysene		380	U	55	380
Benzo[b]fluoranthene		38	U	5.6	38
Benzo[k]fluoranthene		38	U	5.3	38
Benzo[a]pyrene		38	U	4.6	38
Indeno[1,2,3-cd]pyrene		38	U	6.0	38
Dibenz(a,h)anthracene		38	U	4.5	38
Benzo[g,h,i]perylene		380	U	40	380

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	52		38 - 105
Terphenyl-d14	102		16 - 151
2-Fluorobiphenyl	55		40 - 109

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (107.5-110)**

Lab Sample ID: 460-32732-2 Date Sampled: 10/20/2011 1700
Client Matrix: Solid % Moisture: 19.5 Date Received: 10/21/2011 1856

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-90793	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-90567	Lab File ID:	p20611.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Analysis Date:	10/26/2011 0553			Final Weight/Volume:	1 mL
Prep Date:	10/24/2011 1200			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		1900		60	410
Acenaphthylene		410	U	59	410
Acenaphthene		410	U	58	410
Fluorene		410	U	70	410
Phenanthrene		410	U	72	410
Anthracene		410	U	73	410
Fluoranthene		410	U	68	410
Pyrene		410	U	71	410
Benzo[a]anthracene		41	U	7.6	41
Chrysene		410	U	60	410
Benzo[b]fluoranthene		41	U	6.1	41
Benzo[k]fluoranthene		41	U	5.8	41
Benzo[a]pyrene		41	U	5.1	41
Indeno[1,2,3-cd]pyrene		41	U	6.6	41
Dibenz(a,h)anthracene		41	U	4.9	41
Benzo[g,h,i]perylene		410	U	43	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	65		38 - 105
Terphenyl-d14	98		16 - 151
2-Fluorobiphenyl	68		40 - 109

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (84-85)**

Lab Sample ID: 460-32732-1 Date Sampled: 10/20/2011 1620
Client Matrix: Solid % Moisture: 12.3 Date Received: 10/21/2011 1856

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-90910	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-90757	Lab File ID:	10262011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	10/26/2011 2154			Final Weight/Volume:	50 mL
Prep Date:	10/26/2011 0739				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.1	U	0.76	1.1
Barium		20.3	J	1.3	43.4
Cadmium		1.1	U	0.17	1.1
Chromium		8.4		1.3	2.2
Lead		2.4		0.54	1.1
Selenium		2.2	U	1.0	2.2
Silver		2.2	U	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-90738	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-90733	Lab File ID:	102511.PRN
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	10/25/2011 2151			Final Weight/Volume:	100 mL
Prep Date:	10/25/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.036	U	0.024	0.036

Client: AECOM, Inc. Job Number: 460-32732-1

Client Sample ID: **SB-22 (107.5-110)**

Lab Sample ID: 460-32732-2 Date Sampled: 10/20/2011 1700
Client Matrix: Solid % Moisture: 19.5 Date Received: 10/21/2011 1856

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-90910	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-90757	Lab File ID:	10262011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.08 g
Analysis Date:	10/26/2011 2157			Final Weight/Volume:	50 mL
Prep Date:	10/26/2011 0739				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		8.4		0.80	1.1
Barium		50.4		1.4	46.0
Cadmium		1.1	U	0.18	1.1
Chromium		22.0		1.4	2.3
Lead		11.0		0.57	1.1
Selenium		2.3	U	1.1	2.3
Silver		2.3	U	0.17	2.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-90738	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-90733	Lab File ID:	102511.PRN
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	10/25/2011 2154			Final Weight/Volume:	100 mL
Prep Date:	10/25/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.037	U	0.024	0.037

General Chemistry

Client Sample ID: **SB-22 (84-85)**

Lab Sample ID: 460-32732-1 Date Sampled: 10/20/2011 1620
Client Matrix: Solid Date Received: 10/21/2011 1856

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.040	U	mg/Kg	0.0060	0.040	1.0	1677
Analysis Batch: 180-18682	Analysis Date: 10/26/2011 1605						DryWt Corrected: N
Cyanide, Total	0.57	U	mg/Kg	0.13	0.57	1.0	9012A
Analysis Batch: 460-90687	Analysis Date: 10/25/2011 1204						DryWt Corrected: Y
Prep Batch: 460-90512	Prep Date: 10/24/2011 1045						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90537	Analysis Date: 10/24/2011 1433						DryWt Corrected: N
Percent Solids	87.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90537	Analysis Date: 10/24/2011 1433						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-22 (107.5-110)**

Lab Sample ID: 460-32732-2 Date Sampled: 10/20/2011 1700
Client Matrix: Solid Date Received: 10/21/2011 1856

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.12		mg/Kg	0.0060	0.040	1.0	1677
Analysis Batch: 180-18682	Analysis Date: 10/26/2011 1607						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90537	Analysis Date: 10/24/2011 1433						DryWt Corrected: N
Percent Solids	80.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90537	Analysis Date: 10/24/2011 1433						DryWt Corrected: N

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-16c (92.5-95)**

Lab Sample ID: 460-32830-1 Date Sampled: 10/22/2011 1550
Client Matrix: Solid % Moisture: 13.7 Date Received: 10/25/2011 1952

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91303	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-90870	Lab File ID:	o53243.d
Dilution:	1.0			Initial Weight/Volume:	4.96 g
Analysis Date:	10/31/2011 1154			Final Weight/Volume:	5 mL
Prep Date:	10/26/2011 1752				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		110		0.86	1.2
Toluene		200		0.35	1.2
Ethylbenzene		27		0.22	1.2
Xylenes, Total		230		0.92	3.5
Styrene		100		0.40	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 138
Bromofluorobenzene	94		72 - 132
Toluene-d8 (Surr)	99		66 - 126

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-16c (102.5-105)**

Lab Sample ID: 460-32830-2 Date Sampled: 10/22/2011 1645
Client Matrix: Solid % Moisture: 20.5 Date Received: 10/25/2011 1952

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91303	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-90870	Lab File ID:	o53244.d
Dilution:	1.0			Initial Weight/Volume:	5.73 g
Analysis Date:	10/31/2011 1219			Final Weight/Volume:	5 mL
Prep Date:	10/26/2011 1754				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		3.4		0.81	1.1
Toluene		4.4		0.33	1.1
Ethylbenzene		1.9		0.21	1.1
Xylenes, Total		5.2		0.86	3.3
Styrene		0.40	J	0.38	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 138
Bromofluorobenzene	100		72 - 132
Toluene-d8 (Surr)	101		66 - 126

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-24 (98.5-99)**

Lab Sample ID: 460-32830-3 Date Sampled: 10/25/2011 1140
Client Matrix: Solid % Moisture: 8.9 Date Received: 10/25/2011 1952

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91036	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-90866	Lab File ID:	j04977.d
Dilution:	50			Initial Weight/Volume:	5.40 g
Analysis Date:	10/27/2011 2303			Final Weight/Volume:	10 mL
Prep Date:	10/26/2011 1731				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		15	J	12	100
Toluene		520		9.6	100
Ethylbenzene		1300		25	100
Xylenes, Total		8200		44	300
Styrene		2500		14	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		57 - 135
Bromofluorobenzene	108		50 - 124
Toluene-d8 (Surr)	105		46 - 130

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-24 (108-110)**

Lab Sample ID: 460-32830-4 Date Sampled: 10/25/2011 1205
Client Matrix: Solid % Moisture: 24.2 Date Received: 10/25/2011 1952

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91303	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-90870	Lab File ID:	o53245.d
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Analysis Date:	10/31/2011 1244			Final Weight/Volume:	5 mL
Prep Date:	10/26/2011 1756				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		2.4		0.95	1.3
Toluene		1.3	U	0.38	1.3
Ethylbenzene		1.3	U	0.25	1.3
Xylenes, Total		3.8	U	1.0	3.8
Styrene		1.3	U	0.44	1.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 138
Bromofluorobenzene	99		72 - 132
Toluene-d8 (Surr)	102		66 - 126

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-16c (92.5-95)**

Lab Sample ID: 460-32830-1 Date Sampled: 10/22/2011 1550
Client Matrix: Solid % Moisture: 13.7 Date Received: 10/25/2011 1952

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-91464	Instrument ID:	BNAMS5
Prep Method:	3541	Prep Batch:	460-91059	Lab File ID:	x19191.d
Dilution:	1.0			Initial Weight/Volume:	15.03 g
Analysis Date:	11/01/2011 0210			Final Weight/Volume:	1 mL
Prep Date:	10/28/2011 0453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		2700		56	380
Acenaphthylene		270	J	55	380
Acenaphthene		380	U	54	380
Fluorene		190	J	65	380
Phenanthrene		530		67	380
Anthracene		130	J	68	380
Fluoranthene		150	J	64	380
Pyrene		220	J	66	380
Benzo[a]anthracene		95		7.1	38
Chrysene		83	J	56	380
Benzo[b]fluoranthene		48		5.7	38
Benzo[k]fluoranthene		23	J	5.4	38
Benzo[a]pyrene		74		4.7	38
Indeno[1,2,3-cd]pyrene		22	J	6.1	38
Dibenz(a,h)anthracene		38	U	4.6	38
Benzo[g,h,i]perylene		380	U	40	380

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	56		38 - 105
Terphenyl-d14	71		16 - 151
2-Fluorobiphenyl	59		40 - 109

Client: AECOM, Inc.

Job Number: 460-32830-1

Client Sample ID: **SB-16c (102.5-105)**

Lab Sample ID: 460-32830-2
Client Matrix: Solid

% Moisture: 20.5

Date Sampled: 10/22/2011 1645
Date Received: 10/25/2011 1952

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-91465	Instrument ID:	BNAMS5
Prep Method:	3541	Prep Batch:	460-91059	Lab File ID:	x19200.d
Dilution:	1.0			Initial Weight/Volume:	15.02 g
Analysis Date:	11/01/2011 1247			Final Weight/Volume:	1 mL
Prep Date:	10/28/2011 0453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		62	J	61	410
Acenaphthylene		410	U	59	410
Acenaphthene		410	U	59	410
Fluorene		410	U	70	410
Phenanthrene		410	U	73	410
Anthracene		410	U	73	410
Fluoranthene		410	U	69	410
Pyrene		410	U	72	410
Benzo[a]anthracene		41	U	7.7	41
Chrysene		410	U	60	410
Benzo[b]fluoranthene		41	U	6.2	41
Benzo[k]fluoranthene		41	U	5.8	41
Benzo[a]pyrene		41	U	5.1	41
Indeno[1,2,3-cd]pyrene		41	U	6.6	41
Dibenz(a,h)anthracene		41	U	5.0	41
Benzo[g,h,i]perylene		410	U	44	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	61		38 - 105
Terphenyl-d14	87		16 - 151
2-Fluorobiphenyl	65		40 - 109

Client: AECOM, Inc.

Job Number: 460-32830-1

Client Sample ID: **SB-24 (98.5-99)**

Lab Sample ID: 460-32830-3
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 10/25/2011 1140
Date Received: 10/25/2011 1952

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-91464	Instrument ID:	BNAMS5
Prep Method:	3541	Prep Batch:	460-91059	Lab File ID:	x19189.d
Dilution:	10			Initial Weight/Volume:	15.01 g
Analysis Date:	11/01/2011 0124	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	10/28/2011 0453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		54000	D	530	3600
Acenaphthylene		13000	D	520	3600
Acenaphthene		1500	J D	520	3600
Fluorene		8000	D	610	3600
Phenanthrene		25000	D	630	3600
Anthracene		6300	D	640	3600
Fluoranthene		6800	D	600	3600
Pyrene		11000	D	630	3600
Benzo[a]anthracene		4800	D	67	360
Chrysene		4700	D	530	3600
Benzo[b]fluoranthene		2300	D	54	360
Benzo[k]fluoranthene		850	D	51	360
Benzo[a]pyrene		3300	D	45	360
Indeno[1,2,3-cd]pyrene		800	D	58	360
Dibenz(a,h)anthracene		210	J D	44	360
Benzo[g,h,i]perylene		1000	J D	380	3600

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	D	38 - 105
Terphenyl-d14	0	D	16 - 151
2-Fluorobiphenyl	0	D	40 - 109

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-24 (108-110)**

Lab Sample ID: 460-32830-4 Date Sampled: 10/25/2011 1205
Client Matrix: Solid % Moisture: 24.2 Date Received: 10/25/2011 1952

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-91464	Instrument ID:	BNAMS5
Prep Method:	3541	Prep Batch:	460-91059	Lab File ID:	x19190.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Analysis Date:	11/01/2011 0148			Final Weight/Volume:	1 mL
Prep Date:	10/28/2011 0453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		440	U	64	440
Acenaphthylene		440	U	62	440
Acenaphthene		440	U	62	440
Fluorene		440	U	74	440
Phenanthrene		440	U	76	440
Anthracene		440	U	77	440
Fluoranthene		440	U	73	440
Pyrene		440	U	75	440
Benzo[a]anthracene		44	U	8.1	44
Chrysene		440	U	63	440
Benzo[b]fluoranthene		44	U	6.5	44
Benzo[k]fluoranthene		44	U	6.1	44
Benzo[a]pyrene		44	U	5.4	44
Indeno[1,2,3-cd]pyrene		44	U	7.0	44
Dibenz(a,h)anthracene		44	U	5.2	44
Benzo[g,h,i]perylene		440	U	46	440

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	38		38 - 105
Terphenyl-d14	57		16 - 151
2-Fluorobiphenyl	42		40 - 109

Client: AECOM, Inc. Job Number: 460-32830-1

Client Sample ID: **SB-16c (92.5-95)**

Lab Sample ID: 460-32830-1 Date Sampled: 10/22/2011 1550
Client Matrix: Solid % Moisture: 13.7 Date Received: 10/25/2011 1952

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-91145	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-91072	Lab File ID:	10282011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.11 g
Analysis Date:	10/28/2011 1708			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 0735				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.5		0.73	1.0
Barium		14.7	J	1.3	41.7
Cadmium		1.0	U	0.16	1.0
Chromium		12.6		1.2	2.1
Lead		4.0		0.52	1.0
Selenium		2.1	U	0.98	2.1
Silver		2.1	U	0.16	2.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91185	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91157	Lab File ID:	102811.PRN
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	10/28/2011 2157			Final Weight/Volume:	100 mL
Prep Date:	10/28/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.035	U	0.023	0.035

Client: AECOM, Inc.

Job Number: 460-32830-1

Client Sample ID: **SB-16c (102.5-105)**

Lab Sample ID: 460-32830-2
Client Matrix: Solid
% Moisture: 20.5

Date Sampled: 10/22/2011 1645
Date Received: 10/25/2011 1952

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-91145	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-91072	Lab File ID:	10282011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.06 g
Analysis Date:	10/28/2011 1711			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 0735				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		5.4		0.83	1.2
Barium		27.1	J	1.4	47.5
Cadmium		1.2	U	0.19	1.2
Chromium		16.5		1.4	2.4
Lead		7.7		0.59	1.2
Selenium		2.4	U	1.1	2.4
Silver		2.4	U	0.18	2.4

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91185	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91157	Lab File ID:	102811.PRN
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	10/28/2011 2159			Final Weight/Volume:	100 mL
Prep Date:	10/28/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.040	U	0.026	0.040

Client: AECOM, Inc.

Job Number: 460-32830-1

Client Sample ID: **SB-24 (98.5-99)**

Lab Sample ID: 460-32830-3
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 10/25/2011 1140
Date Received: 10/25/2011 1952

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-91145	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-91072	Lab File ID:	10282011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.00 g
Analysis Date:	10/28/2011 1715			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 0735				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.2		0.76	1.1
Barium		20.9	J	1.3	43.9
Cadmium		1.1	U	0.17	1.1
Chromium		10.7		1.3	2.2
Lead		1.8		0.55	1.1
Selenium		2.2	U	1.0	2.2
Silver		2.2	U	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91185	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91157	Lab File ID:	102811.PRN
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	10/28/2011 2202			Final Weight/Volume:	100 mL
Prep Date:	10/28/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.033	U	0.022	0.033

Client: AECOM, Inc.

Job Number: 460-32830-1

Client Sample ID: **SB-24 (108-110)**

Lab Sample ID: 460-32830-4
Client Matrix: Solid

% Moisture: 24.2

Date Sampled: 10/25/2011 1205
Date Received: 10/25/2011 1952

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-91145	Instrument ID:	ICP4
Prep Method:	3050B	Prep Batch:	460-91072	Lab File ID:	10282011A.asc
Dilution:	4.0			Initial Weight/Volume:	1.09 g
Analysis Date:	10/28/2011 1718			Final Weight/Volume:	50 mL
Prep Date:	10/28/2011 0735				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		10.3		0.84	1.2
Barium		46.7	J	1.5	48.4
Cadmium		1.2	U	0.19	1.2
Chromium		26.3		1.4	2.4
Lead		10.4		0.60	1.2
Selenium		1.2	J	1.1	2.4
Silver		2.4	U	0.18	2.4

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91185	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91157	Lab File ID:	102811.PRN
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	10/28/2011 2203			Final Weight/Volume:	100 mL
Prep Date:	10/28/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.042	U	0.028	0.042

General Chemistry

Client Sample ID: **SB-16c (92.5-95)**

Lab Sample ID: 460-32830-1 Date Sampled: 10/22/2011 1550
Client Matrix: Solid % Moisture: 13.7 Date Received: 10/25/2011 1952

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.093		mg/Kg	0.0069	0.046	1.0	1677
Analysis Batch: 180-19170	Analysis Date: 10/31/2011 1252						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.7		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N
Percent Solids	86.3		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N

General Chemistry

Client Sample ID: SB-16c (102.5-105)

Lab Sample ID: 460-32830-2 Date Sampled: 10/22/2011 1645
Client Matrix: Solid % Moisture: 20.5 Date Received: 10/25/2011 1952

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.050	U	mg/Kg	0.0076	0.050	1.0	1677
Analysis Batch: 180-19170	Analysis Date: 10/31/2011 1254						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N
Percent Solids	79.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-24 (98.5-99)**

Lab Sample ID: 460-32830-3 Date Sampled: 10/25/2011 1140
Client Matrix: Solid % Moisture: 8.9 Date Received: 10/25/2011 1952

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.044	U	mg/Kg	0.0066	0.044	1.0	1677
Analysis Batch: 180-19170	Analysis Date: 10/31/2011 1255						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.9		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N
Percent Solids	91.1		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-24 (108-110)**

Lab Sample ID: 460-32830-4 Date Sampled: 10/25/2011 1205
Client Matrix: Solid % Moisture: 24.2 Date Received: 10/25/2011 1952

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.11		mg/Kg	0.0079	0.053	1.0	1677
Analysis Batch: 180-19170	Analysis Date: 10/31/2011 1257						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	24.2		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N
Percent Solids	75.8		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-90833	Analysis Date: 10/26/2011 1617						DryWt Corrected: N

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **SB-30 (78-79)**

Lab Sample ID: 460-33095-1 Date Sampled: 10/29/2011 1505
Client Matrix: Solid % Moisture: 10.2 Date Received: 11/01/2011 1727

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91998	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-91825	Lab File ID:	j05246.d
Dilution:	50			Initial Weight/Volume:	5.23 g
Analysis Date:	11/05/2011 0948			Final Weight/Volume:	10 mL
Prep Date:	11/03/2011 2224				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		190 J		13	110
Toluene		3600 J		10	110
Ethylbenzene		3700 J		26	110
Xylenes, Total		17000 J		46	320
Styrene		9100 J		15	110

FD

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		57 - 135
Bromofluorobenzene	104		50 - 124
Toluene-d8 (Surr)	97		46 - 130

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **Dup-1**

Lab Sample ID: 460-33095-2
Client Matrix: Solid

% Moisture: 12.5

Date Sampled: 10/29/2011 0700
Date Received: 11/01/2011 1727

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91998	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-91825	Lab File ID:	j05247.d
Dilution:	50			Initial Weight/Volume:	5.60 g
Analysis Date:	11/05/2011 1016			Final Weight/Volume:	10 mL
Prep Date:	11/03/2011 2226				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL	
Benzene		1800 J		12	100	
Toluene		17000 J		9.7	100	
Ethylbenzene		11000 J		25	100	FD
Xylenes, Total		52000 J		44	310	
Styrene		28000 J		14	100	

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		57 - 135
Bromofluorobenzene	96		50 - 124
Toluene-d8 (Surr)	96		46 - 130

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (92-94)**

Lab Sample ID: 460-33095-3
Client Matrix: Solid

% Moisture: 29.4

Date Sampled: 10/29/2011 1620
Date Received: 11/01/2011 1727

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91976	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-91828	Lab File ID:	o53478.d
Dilution:	1.0			Initial Weight/Volume:	5.48 g
Analysis Date:	11/05/2011 0251			Final Weight/Volume:	5 mL
Prep Date:	11/03/2011 2314				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL	
Benzene		1.3	UJ	0.96	1.3	ms
Toluene		0.50	J	0.39	1.3	
Ethylbenzene		1.3	UJ	0.25	1.3	
Xylenes, Total		3.9	UJ	1.0	3.9	
Styrene		1.3	UJ	0.45	1.3	

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 138
Bromofluorobenzene	101		72 - 132
Toluene-d8 (Surr)	102		66 - 126

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (3-5)**

Lab Sample ID: 460-33095-4
Client Matrix: Solid

% Moisture: 14.9

Date Sampled: 10/23/2011 1100
Date Received: 11/01/2011 1727

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91976	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-91828	Lab File ID:	o53479.d
Dilution:	1.0			Initial Weight/Volume:	5.21 g
Analysis Date:	11/05/2011 0316			Final Weight/Volume:	5 mL
Prep Date:	11/03/2011 2319				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.1		0.83	1.1
Toluene		9.1		0.34	1.1
Ethylbenzene		6.5		0.22	1.1
Xylenes, Total		20		0.89	3.4
Styrene		5.1		0.39	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 138
Bromofluorobenzene	112		72 - 132
Toluene-d8 (Surr)	104		66 - 126

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **SB-19 (2-5)**

Lab Sample ID: 460-33095-5 Date Sampled: 10/30/2011 1040
Client Matrix: Solid % Moisture: 26.6 Date Received: 11/01/2011 1727

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-91998	Instrument ID:	VOAMS8
Prep Method:	5035	Prep Batch:	460-91825	Lab File ID:	j05245.d
Dilution:	50			Initial Weight/Volume:	5.66 g
Analysis Date:	11/05/2011 0923			Final Weight/Volume:	10 mL
Prep Date:	11/03/2011 2234				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		120		14	120
Toluene		220		11	120
Ethylbenzene		770		30	120
Xylenes, Total		1000		52	360
Styrene		41	J	17	120

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		57 - 135
Bromofluorobenzene	94		50 - 124
Toluene-d8 (Surr)	89		46 - 130

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (78-79)**

Lab Sample ID: 460-33095-1
Client Matrix: Solid
% Moisture: 10.2

Date Sampled: 10/29/2011 1505
Date Received: 11/01/2011 1727

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-92693	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-91661	Lab File ID:	p21331.d
Dilution:	5.0			Initial Weight/Volume:	15.01 g
Analysis Date:	11/09/2011 1952			Final Weight/Volume:	1 mL
Prep Date:	11/02/2011 1500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL	
Naphthalene		570	J	270	1800	2 PQL, FD.
Acenaphthylene		4200		260	1800	
Acenaphthene		530	J	260	1800	
Fluorene		4800		310	1800	
Phenanthrene		19000		320	1800	
Anthracene		4100		320	1800	
Fluoranthene		5600		310	1800	
Pyrene		8600		320	1800	
Benzo[a]anthracene		3800		34	180	
Chrysene		3400		270	1800	
Benzo[b]fluoranthene		1700		27	180	
Benzo[k]fluoranthene		590		26	180	
Benzo[a]pyrene		2200		23	180	
Indeno[1,2,3-cd]pyrene		910		29	180	
Dibenz(a,h)anthracene		240		22	180	
Benzo[g,h,i]perylene		1000	J	190	1800	

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		38 - 105
Terphenyl-d14	84		16 - 151
2-Fluorobiphenyl	74		40 - 109

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **Dup-1**

Lab Sample ID: 460-33095-2 Date Sampled: 10/29/2011 0700
Client Matrix: Solid % Moisture: 12.5 Date Received: 11/01/2011 1727

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-92693	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-91661	Lab File ID:	p21332.d
Dilution:	5.0			Initial Weight/Volume:	15.00 g
Analysis Date:	11/09/2011 2018			Final Weight/Volume:	1 mL
Prep Date:	11/02/2011 1500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL	
Naphthalene		2000 J		280	1900	FD
Acenaphthylene		4100		270	1900	
Acenaphthene		540	J	270	1900	
Fluorene		4300		320	1900	
Phenanthrene		16000		330	1900	
Anthracene		3600		330	1900	
Fluoranthene		4600		310	1900	
Pyrene		6900		330	1900	
Benzo[a]anthracene		2800		35	190	
Chrysene		3100		270	1900	
Benzo[b]fluoranthene		1500		28	190	
Benzo[k]fluoranthene		500		26	190	
Benzo[a]pyrene		2000		23	190	
Indeno[1,2,3-cd]pyrene		730		30	190	
Dibenz(a,h)anthracene		220		23	190	
Benzo[g,h,i]perylene		840	J	200	1900	

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	65		38 - 105
Terphenyl-d14	80		16 - 151
2-Fluorobiphenyl	75		40 - 109

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (92-94)**

Lab Sample ID: 460-33095-3
Client Matrix: Solid

% Moisture: 29.4

Date Sampled: 10/29/2011 1620
Date Received: 11/01/2011 1727

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-92693	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-91661	Lab File ID:	p21327.d
Dilution:	1.0			Initial Weight/Volume:	15.05 g
Analysis Date:	11/09/2011 1810			Final Weight/Volume:	1 mL
Prep Date:	11/02/2011 1500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		470	U	68	470
Acenaphthylene		470	U	67	470
Acenaphthene		470	U	67	470
Fluorene		470	U	79	470
Phenanthrene		470	U	82	470
Anthracene		470	U	82	470
Fluoranthene		470	U	78	470
Pyrene		470	U	81	470
Benzo[a]anthracene		47	U	8.6	47
Chrysene		470	U	68	470
Benzo[b]fluoranthene		47	U	7.0	47
Benzo[k]fluoranthene		47	U	6.5	47
Benzo[a]pyrene		47	U	5.7	47
Indeno[1,2,3-cd]pyrene		47	U	7.5	47
Dibenz(a,h)anthracene		47	U	5.6	47
Benzo[g,h,i]perylene		470	U	49	470

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		38 - 105
Terphenyl-d14	93		16 - 151
2-Fluorobiphenyl	92		40 - 109

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (3-5)**

Lab Sample ID: 460-33095-4
Client Matrix: Solid % Moisture: 14.9

Date Sampled: 10/23/2011 1100
Date Received: 11/01/2011 1727

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-92693	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-91661	Lab File ID:	p21334.d
Dilution:	2.0			Initial Weight/Volume:	15.03 g
Analysis Date:	11/09/2011 2109			Final Weight/Volume:	1 mL
Prep Date:	11/02/2011 1500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		250	J	110	770
Acenaphthylene		1100		110	770
Acenaphthene		770	U	110	770
Fluorene		770	U	130	770
Phenanthrene		1000		140	770
Anthracene		450	J	140	770
Fluoranthene		2600		130	770
Pyrene		2800		130	770
Benzo[a]anthracene		3000		14	77
Chrysene		4200		110	770
Benzo[b]fluoranthene		5000		12	77
Benzo[k]fluoranthene		1500		11	77
Benzo[a]pyrene		2900		9.5	77
Indeno[1,2,3-cd]pyrene		3400		12	77
Dibenz(a,h)anthracene		910		9.3	77
Benzo[g,h,i]perylene		4100		82	770

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		38 - 105
Terphenyl-d14	75		16 - 151
2-Fluorobiphenyl	96		40 - 109

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **SB-19 (2-5)**

Lab Sample ID: 460-33095-5 Date Sampled: 10/30/2011 1040
Client Matrix: Solid % Moisture: 26.6 Date Received: 11/01/2011 1727

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-92693	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-91661	Lab File ID:	p21330.d
Dilution:	10			Initial Weight/Volume:	15.01 g
Analysis Date:	11/09/2011 1927	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	11/02/2011 1500			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		5100	D	660	4500
Acenaphthylene		3300	J D	640	4500
Acenaphthene		3900	J D	640	4500
Fluorene		12000	D	760	4500
Phenanthrene		37000	D	790	4500
Anthracene		15000	D	800	4500
Fluoranthene		53000	D	750	4500
Pyrene		40000	D	780	4500
Benzo[a]anthracene		22000	D	83	450
Chrysene		20000	D	660	4500
Benzo[b]fluoranthene		20000	D	67	450
Benzo[k]fluoranthene		7600	D	63	450
Benzo[a]pyrene		16000	D	55	450
Indeno[1,2,3-cd]pyrene		10000	D	72	450
Dibenz(a,h)anthracene		3000	D	54	450
Benzo[g,h,i]perylene		9800	D	480	4500

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	D	38 - 105
Terphenyl-d14	0	D	16 - 151
2-Fluorobiphenyl	0	D	40 - 109

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **SB-30 (78-79)**

Lab Sample ID: 460-33095-1 Date Sampled: 10/29/2011 1505
Client Matrix: Solid % Moisture: 10.2 Date Received: 11/01/2011 1727

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92018	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-91847	Lab File ID:	91958V1
Dilution:	4.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/06/2011 0244			Final Weight/Volume:	50 mL
Prep Date:	11/04/2011 0747				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.9		0.75	1.1
Barium		14.1	J	1.3	43.2
Cadmium		1.1	U	0.17	1.1
Chromium		13.4		1.3	2.2
Lead		2.2		0.54	1.1
Selenium		2.2	U	1.0	2.2
Silver		2.2	U	0.16	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91827	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91816	Lab File ID:	110311.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	11/03/2011 2209			Final Weight/Volume:	100 mL
Prep Date:	11/03/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.037	U	0.024	0.037

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **Dup-1**

Lab Sample ID: 460-33095-2
Client Matrix: Solid

% Moisture: 12.5

Date Sampled: 10/29/2011 0700
Date Received: 11/01/2011 1727

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92018	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-91847	Lab File ID:	91958V1
Dilution:	4.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/06/2011 0251			Final Weight/Volume:	50 mL
Prep Date:	11/04/2011 0747				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.8		0.77	1.1
Barium		11.4	J	1.3	44.0
Cadmium		1.1	U	0.17	1.1
Chromium		10.5		1.3	2.2
Lead		1.7		0.55	1.1
Selenium		2.2	U	1.0	2.2
Silver		2.2	U	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91831	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91816	Lab File ID:	110311(B).PRN
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	11/03/2011 2258			Final Weight/Volume:	100 mL
Prep Date:	11/03/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.034	U	0.023	0.034

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-30 (92-94)**

Lab Sample ID: 460-33095-3
Client Matrix: Solid
% Moisture: 29.4

Date Sampled: 10/29/2011 1620
Date Received: 11/01/2011 1727

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92027	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-91847	Lab File ID:	91888V1
Dilution:	4.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/06/2011 1125			Final Weight/Volume:	50 mL
Prep Date:	11/04/2011 0747				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		17.5		0.93	1.3
Barium		51.1	J	1.6	53.5
Cadmium		1.3	U	0.21	1.3
Chromium		20.4		1.6	2.7
Lead		14.7		0.67	1.3
Selenium		2.7	U	1.3	2.7
Silver		0.24	J	0.20	2.7

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91827	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91816	Lab File ID:	110311.PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	11/03/2011 2156			Final Weight/Volume:	100 mL
Prep Date:	11/03/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.047	U	0.031	0.047

Client: AECOM, Inc. Job Number: 460-33095-1

Client Sample ID: **SB-30 (3-5)**

Lab Sample ID: 460-33095-4 Date Sampled: 10/23/2011 1100
Client Matrix: Solid % Moisture: 14.9 Date Received: 11/01/2011 1727

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92018	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-91847	Lab File ID:	91958V1
Dilution:	4.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/06/2011 0309			Final Weight/Volume:	50 mL
Prep Date:	11/04/2011 0747				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		21.3		0.76	1.1
Barium		125		1.3	43.9
Cadmium		1.1	U	0.17	1.1
Chromium		13.5		1.3	2.2
Lead		269		0.55	1.1
Selenium		1.0	J	1.0	2.2
Silver		0.56	J	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91831	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91816	Lab File ID:	110311(B).PRN
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	11/03/2011 2259			Final Weight/Volume:	100 mL
Prep Date:	11/03/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		1.2		0.025	0.038

Client: AECOM, Inc.

Job Number: 460-33095-1

Client Sample ID: **SB-19 (2-5)**

Lab Sample ID: 460-33095-5
Client Matrix: Solid

% Moisture: 26.6

Date Sampled: 10/30/2011 1040
Date Received: 11/01/2011 1727

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92018	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-91847	Lab File ID:	91958V1
Dilution:	4.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/06/2011 0315			Final Weight/Volume:	50 mL
Prep Date:	11/04/2011 0747				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		68.8		0.87	1.3
Barium		172		1.5	50.0
Cadmium		3.9		0.20	1.3
Chromium		24.1		1.5	2.5
Lead		451		0.63	1.3
Selenium		9.0		1.2	2.5
Silver		0.50	J	0.19	2.5

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-91831	Instrument ID:	LEEMAN5
Prep Method:	7471A	Prep Batch:	460-91816	Lab File ID:	110311(B).PRN
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	11/03/2011 2301			Final Weight/Volume:	100 mL
Prep Date:	11/03/2011 1900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.045	U	0.030	0.045

General Chemistry

Client Sample ID: **SB-30 (78-79)**

Lab Sample ID: 460-33095-1 Date Sampled: 10/29/2011 1505
Client Matrix: Solid % Moisture: 10.2 Date Received: 11/01/2011 1727

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.044	U	mg/Kg	0.0067	0.044	1.0	1677
Analysis Batch: 180-19705	Analysis Date: 11/04/2011 0857						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.2		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N
Percent Solids	89.8		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N

General Chemistry

Client Sample ID: **Dup-1**

Lab Sample ID: 460-33095-2
Client Matrix: Solid
% Moisture: 12.5
Date Sampled: 10/29/2011 0700
Date Received: 11/01/2011 1727

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.045	U	mg/Kg	0.0068	0.045	1.0	1677
Analysis Batch: 180-19705	Analysis Date: 11/04/2011 0859						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N
Percent Solids	87.5		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-30 (92-94)**

Lab Sample ID: 460-33095-3 Date Sampled: 10/29/2011 1620
Client Matrix: Solid % Moisture: 29.4 Date Received: 11/01/2011 1727

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.057	U	mg/Kg	0.0085	0.057	1.0	1677
Analysis Batch: 180-19705	Analysis Date: 11/04/2011 0900						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	29.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N
Percent Solids	70.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-30 (3-5)**

Lab Sample ID: 460-33095-4 Date Sampled: 10/23/2011 1100
Client Matrix: Solid % Moisture: 14.9 Date Received: 11/01/2011 1727

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.047	U	mg/Kg	0.0071	0.047	1.0	1677
Analysis Batch: 180-19705	Analysis Date: 11/04/2011 0905						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	14.9		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N
Percent Solids	85.1		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N

General Chemistry

Client Sample ID: SB-19 (2-5)

Lab Sample ID: 460-33095-5 Date Sampled: 10/30/2011 1040
Client Matrix: Solid % Moisture: 26.6 Date Received: 11/01/2011 1727

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.055		mg/Kg	0.0082	0.055	1.0	1677
Analysis Batch: 180-19705	Analysis Date: 11/04/2011 0906						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	26.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N
Percent Solids	73.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-91631	Analysis Date: 11/03/2011 0130						DryWt Corrected: N

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: **SB-19(70-75)**

Lab Sample ID: 460-33471-1
Client Matrix: Solid
% Moisture: 18.8

Date Sampled: 11/06/2011 0805
Date Received: 11/09/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-92785	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-92541	Lab File ID:	o53770.d
Dilution:	1.0			Initial Weight/Volume:	5.30 g
Analysis Date:	11/12/2011 1040			Final Weight/Volume:	5 mL
Prep Date:	11/10/2011 1305				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.2	U	0.86	1.2
Toluene		0.55	J	0.35	1.2
Ethylbenzene		63		0.22	1.2
Xylenes, Total		73		0.91	3.5
Styrene		9.0		0.40	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 138
Bromofluorobenzene	103		72 - 132
Toluene-d8 (Surr)	101		66 - 126

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: **SB-19(85-87.5)**

Lab Sample ID: 460-33471-2
Client Matrix: Solid
% Moisture: 16.4

Date Sampled: 11/06/2011 0930
Date Received: 11/09/2011 0915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	460-92785	Instrument ID:	VOAMS12
Prep Method:	5035	Prep Batch:	460-92541	Lab File ID:	o53769.d
Dilution:	1.0			Initial Weight/Volume:	5.22 g
Analysis Date:	11/12/2011 1014			Final Weight/Volume:	5 mL
Prep Date:	11/10/2011 1307				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		1.1	U	0.85	1.1
Toluene		0.50	J	0.34	1.1
Ethylbenzene		0.25	J	0.22	1.1
Xylenes, Total		3.4	U	0.90	3.4
Styrene		1.1	U	0.40	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 138
Bromofluorobenzene	102		72 - 132
Toluene-d8 (Surr)	106		66 - 126

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: **SB-19(70-75)**

Lab Sample ID: 460-33471-1
Client Matrix: Solid
% Moisture: 18.8

Date Sampled: 11/06/2011 0805
Date Received: 11/09/2011 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-93035	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-92511	Lab File ID:	p21485.d
Dilution:	1.0			Initial Weight/Volume:	15.00 g
Analysis Date:	11/15/2011 0641			Final Weight/Volume:	1 mL
Prep Date:	11/10/2011 1000			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		410	U	60	410
Acenaphthylene		270	J	58	410
Acenaphthene		270	J	58	410
Fluorene		630		69	410
Phenanthrene		3600		71	410
Anthracene		600		72	410
Fluoranthene		1300		68	410
Pyrene		1600		70	410
Benzo[a]anthracene		680		7.5	41
Chrysene		630		59	410
Benzo[b]fluoranthene		380		6.1	41
Benzo[k]fluoranthene		160		5.7	41
Benzo[a]pyrene		450		5.0	41
Indeno[1,2,3-cd]pyrene		170		6.5	41
Dibenz(a,h)anthracene		41	U	4.9	41
Benzo[g,h,i]perylene		230	J	43	410

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	68		38 - 105
Terphenyl-d14	87		16 - 151
2-Fluorobiphenyl	78		40 - 109

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: **SB-19(85-87.5)**

Lab Sample ID: 460-33471-2
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 11/06/2011 0930
Date Received: 11/09/2011 0915

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	460-93035	Instrument ID:	BNAMS10
Prep Method:	3541	Prep Batch:	460-92511	Lab File ID:	p21482.d
Dilution:	1.0			Initial Weight/Volume:	15.01 g
Analysis Date:	11/15/2011 0521			Final Weight/Volume:	1 mL
Prep Date:	11/10/2011 1000			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Naphthalene		390	U	58	390
Acenaphthylene		390	U	57	390
Acenaphthene		390	U	56	390
Fluorene		390	U	67	390
Phenanthrene		390	U	69	390
Anthracene		390	U	70	390
Fluoranthene		390	U	66	390
Pyrene		390	U	68	390
Benzo[a]anthracene		39	U	7.3	39
Chrysene		390	U	57	390
Benzo[b]fluoranthene		39	U	5.9	39
Benzo[k]fluoranthene		39	U	5.5	39
Benzo[a]pyrene		39	U	4.9	39
Indeno[1,2,3-cd]pyrene		39	U	6.3	39
Dibenz(a,h)anthracene		39	U	4.8	39
Benzo[g,h,i]perylene		390	U	42	390

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	67		38 - 105
Terphenyl-d14	84		16 - 151
2-Fluorobiphenyl	72		40 - 109

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: **SB-19(70-75)**

Lab Sample ID: 460-33471-1
Client Matrix: Solid

% Moisture: 18.8

Date Sampled: 11/06/2011 0805
Date Received: 11/09/2011 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92870	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-92749	Lab File ID:	92759V1
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/14/2011 0507			Final Weight/Volume:	50 mL
Prep Date:	11/11/2011 1726				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.0	J	0.82	1.2
Barium		25.5	J	1.4	46.9
Cadmium		1.2	U	0.18	1.2
Chromium		24.7		1.4	2.3
Lead		4.7		0.59	1.2
Selenium		2.3	U	1.1	2.3
Silver		2.3	U	0.18	2.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-93052	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-92986	Lab File ID:	92986hg1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	11/15/2011 1346			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0935				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.038	U	0.025	0.038

Client: AECOM, Inc.

Job Number: 460-33471-1

Client Sample ID: SB-19(85-87.5)

Lab Sample ID: 460-33471-2
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 11/06/2011 0930
Date Received: 11/09/2011 0915

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	460-92870	Instrument ID:	ICP2
Prep Method:	3050B	Prep Batch:	460-92749	Lab File ID:	92759V1
Dilution:	4.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/14/2011 0514			Final Weight/Volume:	50 mL
Prep Date:	11/11/2011 1726				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.5		0.79	1.1
Barium		9.0	J	1.4	45.6
Cadmium		1.1	U	0.18	1.1
Chromium		10.1		1.4	2.3
Lead		1.9		0.57	1.1
Selenium		2.3	U	1.1	2.3
Silver		2.3	U	0.17	2.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	460-93052	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	460-92986	Lab File ID:	92986hg1.PRN
Dilution:	1.0			Initial Weight/Volume:	0.70 g
Analysis Date:	11/15/2011 1333			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0935				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.034	U	0.023	0.034

General Chemistry

Client Sample ID: SB-19(70-75)

Lab Sample ID: 460-33471-1 Date Sampled: 11/06/2011 0805
Client Matrix: Solid % Moisture: 18.8 Date Received: 11/09/2011 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.049	U	mg/Kg	0.0074	0.049	1.0	1677
Analysis Batch: 180-20800	Analysis Date: 11/15/2011 1151						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.8		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Moisture	18.8		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Solids	81.2		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Solids	81.2		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N

General Chemistry

Client Sample ID: **SB-19(85-87.5)**

Lab Sample ID: 460-33471-2 Date Sampled: 11/06/2011 0930
Client Matrix: Solid % Moisture: 16.4 Date Received: 11/09/2011 0915

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Available cyanide	0.048	U	mg/Kg	0.0071	0.048	1.0	1677
Analysis Batch: 180-20800	Analysis Date: 11/15/2011 1153						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Moisture	16.4		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Solids	83.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N
Percent Solids	83.6		%	1.0	1.0	1.0	Moisture
Analysis Batch: 460-92552	Analysis Date: 11/10/2011 1441						DryWt Corrected: N

Appendix C

Support Documentation

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM
JENNIFER PFEIFFER
100 LIBERTY ST, 25TH FLOOR
NEW YORK, NY
Telephone #:
Project Mgr.:

Invoice To: AECOM
JENNIFER PFEIFFER
100 LIBERTY ST, 25TH FLOOR
NEW YORK, NY 10281
P.O. No.: _____ RQN: _____

Project No.: 60137362
Site Name: EQUITY COUNCIL MGP SITE
Location: 254 MASPETH AVE, BROOKLYN State: NY
Sampler(s): C. BATTENHOUSE, J. EHLEN

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10= ICE 11= _____

List preservative code below: 10 | 10 | 10 | 10

QA/QC Reporting Notes:
*additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

MA DEP MCP CAM Report: Yes ☐ No ☑
CT DPH RCP Report: Yes ☐ No ☑

QA/QC Reporting Level
☑ Standard ☐ No QC ☐ DQA* ☐ NY ASP A* ☐ NY ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ TIER II* ☐ TIER V*
☐ Other _____
State-specific reporting standards:

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: VOCs	SVOCs	TAL METALS	FREE CN
R1658													
14 (K2279-03)	TP-4 (3-4)	9.9.11	1430	G	SO		6			✓	✓	✓	✓
15 (K2279-04)	TP-4 (7-7.5)	9.9.11	1410	G	SO		6			✓	✓	✓	✓

Relinquished by:	Received by:	Date:	Time:	Temp°C
Jessica Ehlen		9-13-11	0930	
	Sub out Fridge	9-13-11	1830	
courier	[illegible]	9-14-11	10:30	4°C

☑ EDD Format _____
☑ E-mail to JENNIFER.PFEIFFER@AECOM.COM

☐ Ambient ☑ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

Revised July 2010

Shirley Ng [Warwick]

re-log to K2279

From: Malzone, Greg [greg.malzone@aecom.com]
Sent: Thursday, November 03, 2011 10:33 AM
To: Shirley Ng [Warwick]
Cc: Pfeiffer, Jennifer; Edward Lawler [Warwick]; Jim Stadelmaier [Warwick]; Yihai Ding [Warwick]
Subject: RE: New report posted on Mitkem website. SDG K1658 for project AECOM_NAT_EQUITY_PDI National Grid Equity Site, PDI Analytical/ -

Shirley:

We request that the 8260B volatiles analyses be performed from the refrigerated, unopened jars for samples TP-2B-1, TP-2B-2, TP-4 (3-4) and TP-4 (7-7.5).
(01) (02) (03) (04)
The analysis of these samples will be grossly beyond the USEPA holding time. The non-detect results will be rejected, and the positive results will be qualified as estimates. We also request a cost concession on these volatiles analyses because they were missed and the results will now be of limited use.

Gregory A. Malzone
Project Chemist
Environment
D 412.261.2910 Ext.221 F 412.765.1421
greg.malzone@aecom.com

AECOM
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Please consider the environment before printing this e-mail.

From: Shirley Ng [Warwick] [mailto:sng@mitkem.com]
Sent: Thursday, November 03, 2011 9:08 AM
To: Malzone, Greg
Cc: Pfeiffer, Jennifer; Edward Lawler [Warwick]; Jim Stadelmaier [Warwick]; Yihai Ding [Warwick]
Subject: RE: New report posted on Mitkem website. SDG K1658 for project AECOM_NAT_EQUITY_PDI National Grid Equity Site, PDI Analytical/ -
Importance: High

Greg,

The Free CN data for TP-4s are attached, I also noticed TOX data was missing in the data report too. I'm very sorry VOC was not analyzed for TP-2B-1, TP-2B-2, and both TP-4 (3-4) and TP-4 (7-7.5). We're very sorry for the oversight. We should still have unopened portion of these samples, would you like us analysis them for VOC ?

Again, we sincerely apologize for the inconvenience,

Shirley Ng
Project Manager
Mitkem Laboratories
A division of Spectrum Analytical. Inc,
Featuring Hanibal technology
(p) 401-732-3400 x314
(f) 401-732-3499
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From: Malzone, Greg [mailto:greg.malzone@aecom.com]
Sent: Thu 11/3/2011 8:49 AM
To: Shirley Ng [Warwick]
Cc: Pfeiffer, Jennifer
Subject: FW: New report posted on Mitkem website. SDG K1658 for project AECOM_NAT_EQUITY_PDI National Grid Equity Site, PDI Analytical/ -

Hi Shirley:

We received the final data report for SDG K1658. The Equity TP-4 samples were analyzed for SVOCs and TAL metals. VOAs and cyanide were requested for the TP-4 samples but not done/delivered as indicated on the chain-of custody. Have these analyses been done and not reported?

Could you please check on this for us?

Gregory A. Malzone
Project Chemist
Environment
D 412.261.2910 Ext.221 F 412.765.1421
greg.malzone@aecom.com

AECOM
Four Gateway Center, 444 Liberty Avenue, Suite 700, Pittsburgh, PA 15222
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www.aecom.com

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REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : AECOM

Project: National Grid Equity Site, PDI Analytical

Laboratory Workorder / SDG #: K2279

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

Please note these samples were analyzed out of holding time due to oversight. Please see e-mail attached.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times with the following exceptions:

TB-2B-1 (7-7.5) (K2279-01A) exceed by-45 Days
TB-2B-2 (7-7.5) (K2279-02A) exceed by-45 Days
TP-4 (3-4) (K2279-03A) exceed by-45 Days
TP-4 (7-7.5) (K2279-04A) exceed by-42 Days

B. Sample Analysis:

All samples were analyzed outside the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035
Soil Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA
Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

Date: 11/15/11

2K - FORM II SV-4

SOIL SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: K1658 Mod. Ref No.: SDG No.: SK1658

Level: (LOW/MED) LOW

	CLIENT SAMPLE NO.	SDMC1 (NBZ) #	SDMC2 (FBP) #	SDMC3 (TPH) #	SDMC4 (PHL) #	SDMC5 (2FP) #	SDMC6 (TBP) #			TOT OUT
01	MB-61483	80	85	82	92	97	84			0
02	LCS-61483	82	87	90	102 *	103	95			1
03	LCSD-61483	84	88	86	96	101	90			0
04	TP-8 (6.4-6.7)	69	76	77	84	83	78			0
05	TP-16 (5-6)	0 D	0 D	0 D	0 D	0 D	0 D			6
06	TP-16 (5-6)DL	0 D	0 D	0 D	0 D	0 D	0 D			6
07	TP-2B-1 (7-7.5)	74	80	84	91	91	88			0
08	TP-12A (4-5)	78	82	90	98	98	91			0
09	TB-2B-2 (7-7.5)	72	77	80	89	88	85			0
10	TP-4 (3-4)	65	72	83	78	78	80			0
11	TP-12 (4-5)	83	87	128 D	90	82	97			1
12	TP-17 (6-6.67)	70	77	96	82	81	79			0
13	TP-4 (7-7.5)	130 D	93	100	77	71	93			1
14	MB-61557	86	88	87	98	102	91			0
15	LCS-61557	83	86	93	100 *	102	90			1
16	LCSD-61557	83	83	90	103 *	105	89			1
17	TP-4 (3-4)DL	69	77	90	92	84	78			0
18	TP-17 (6-6.67)DL	76	82	94	90	81	63			0
19	TP-4 (7-7.5)DL	77	100	110	90	73	71			0
20	TP-12 (4-5)DL	0 D	0 D	0 D	0 D	0 D	0 D			6

			QC LIMITS
SDMC1	(NBZ)	= Nitrobenzene-d5	(35-100)
SDMC2	(FBP)	= 2-Fluorobiphenyl	(45-105)
SDMC3	(TPH)	= Terphenyl-d14	(30-125)
SDMC4	(PHL)	= Phenol-d5	(40-100)
SDMC5	(2FP)	= 2-Fluorophenol	(35-105)
SDMC6	(TBP)	= 2,4,6-Tribromophenol	(35-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

som11.09.21.A

SW846

U.S. EPA - CLP

3

BLANKS

Lab Name: Spectrum Analytical, Inc. Contract: 60137362-620

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK1658

Preparation Blank Matrix (soil/water): SOIL Method Blank ID: **MB-61674**

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

OPTIMA3_110922A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	66.0	U	66.0	U	66.0	U	66.0	U	5.161	B	P
Antimony	11.3	B	9.3	U	9.3	U			0.532	B	P
Arsenic	4.3	U	4.3	U	4.3	U			0.410	U	P
Barium	2.8	B	2.0	B	2.0	B			0.031	U	P
Beryllium	0.3	U	0.3	U	0.3	U			0.004	B	P
Cadmium	0.9	U	0.9	U	0.9	U			0.015	U	P
Calcium	110.0	U	110.0	U	110.0	U			6.100	U	P
Chromium	0.6	U	0.6	U	0.6	U			0.020	B	P
Cobalt	0.7	U	0.7	U	0.7	U			0.044	U	P
Copper	3.6	U	3.6	U	3.6	U			0.110	U	P
Iron	31.0	U	31.0	U	31.0	U	31.0	U	3.009	B	P
Lead	4.2	U	4.2	U	4.2	U			0.170	U	P
Magnesium	76.0	U	76.0	U	76.0	U			5.757	B	P
Manganese	10.0	U	10.0	U	10.0	U			0.130	U	P
Nickel	0.9	U	0.8	U	0.8	U			0.043	U	P
Potassium	76.0	U	76.0	U	76.0	U			3.400	U	P
Selenium	12.0	U	12.0	U	12.0	U			0.640	U	P
Silver	6.9	U	6.9	U	6.9	U			0.064	U	P
Sodium	29.0	U	29.0	U	37.3	B			1.282	B	P
Thallium	6.2	U	6.2	U	6.2	U			0.220	U	P
Vanadium	1.1	U	1.1	U	1.1	U			0.060	U	P
Zinc	4.9	U	5.4	B	4.9	U			0.180	U	P

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

TP-4 (7-7.5)S

Lab Name: Spectrum Analytical, Inc. Contract: 60137362-62

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK1658

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 74.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	2.2		1.5		1.2	69	N	CV

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

TP-4 (7-7.5)D

Lab Name: Spectrum Analytical, Inc. Contract: 60137362-62

Lab Code: MITKEM Case No.: SAS No.: SDG No.: SK1658

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 74.5 % Solids for Duplicate: 74.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		1.4509		1.0146		35.4	*	CV

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 460-31578-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-31578-1	SB-22 (0'-5')	Solid	09/19/2011 1600	09/23/2011 1430
460-31578-2	SB-21 (0'-5')	Solid	09/22/2011 0800	09/23/2011 1430
460-31578-3	SB-29 (98)	Solid	09/23/2011 1430	09/23/2011 1430
460-31578-4	SB-29 (98-100)	Solid	09/23/2011 1430	09/23/2011 1430
460-31578-5	SB-29 (0-5)	Solid	09/23/2011 1430	09/23/2011 1430

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page ___ of ___

Name (for report and invoice) Pete Cox	Samplers Name (Printed) Luis Ferreira	Site/Project Identification Equity - NY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☐ Other:
Address 250 Apollo Drive	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City Chelmsford State MA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone 978-905-2168 Fax		Job No: 31578

Sample Identification	Date	Time	Matrix	No. of Cont.	8260B	8270C	9014A	6010B	7470A	Sample Numbers
SB-22 (0'-5')	9/19/11	1600	Soil	4	X	X	X	X	X	1
SB-21 (0'-5')	9/22/11	0800	Soil	4	X	X	X	X	X	2
SB-29 (98)	9/23/11	1430	Soil	4	X	X	X	X	X	3
SB-29 (98-100)	9/23/11	1430	Soil	4	X	X	X	X	X	4
SB-29 (0-5)	9/23/11	1430	Soil	4	X	X	X	X	X	6

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil:
6 = Other _____, 7 = Other _____ Water:

Special Instructions

Water Metals Filtered (Yes/No)? _____

	Company	Date / Time		Company
Relinquished by 1) Luis Ferreira	AECOM	9/23/11	13:00 Received by 1)	TAL NY
Relinquished by 2)	TAL NY	9/23/11	14:30 Received by 2)	
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 3.6°C IR450

10/07/2011

Page 1061 of 1062

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-31578-1

Login Number: 31578
List Number: 1
Creator: Smith, Anthony G

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6° C IR 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-31578-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ	#	FBP	#	TPH	#
SB-22 (0'-5')	460-31578-1	81		71		69	
SB-21 (0'-5')	460-31578-2	81		89		76	
SB-29 (98) DL	460-31578-3 DL	0	D	0	D	0	D
SB-29 (98-100)	460-31578-4	71		76		79	
SB-29 (0-5)	460-31578-5	79		92		61	
	MB 460-87330/1-A	78		82		71	
	LCS 460-87330/2-A	86		77		89	
	460-31504-F-5-E MS	74		75		78	
	460-31504-F-5-F MSD	77		73		84	

	QC LIMITS
NBZ = Nitrobenzene-d5	38-105
FBP = 2-Fluorobiphenyl	40-109
TPH = Terphenyl-d14	16-151

Column to be used to flag recovery values

FORM II 8270C

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-31578-1

SDG No.:

Lab Sample ID: CCVIS 460-87541/2 Calibration Date: 09/27/2011 13:04

Instrument ID: BNAMS4 Calib Start Date: 09/23/2011 13:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 09/23/2011 15:09

Lab File ID: u70449.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5715	0.4866		42600	50000	-14.9	20.0
N-Nitrosodimethylamine	Ave	1.055	1.119		53000	50000	6.1	20.0
Pyridine	Ave	1.561	1.655		53000	50000	6.0	20.0
Benzaldehyde	Ave	0.8179	0.4336		26500	50000	-47.0*	20.0
Aniline	Ave	2.770	2.922		52700	50000	5.5	20.0
Phenol	Ave	2.206	2.147		48700	50000	-2.7	20.0
Bis(2-chloroethyl)ether	Ave	1.720	1.790		52000	50000	4.0	20.0
2-Chlorophenol	Ave	1.308	1.313		50200	50000	0.4	20.0
Decane	QuaF	1.915	1.766		46700	50000	-6.5	20.0
1,3-Dichlorobenzene	Ave	1.540	1.480		48100	50000	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.440	1.339		46500	50000	-7.0	20.0
1,2-Dichlorobenzene	Ave	1.502	1.486		49500	50000	-1.0	20.0
Benzyl alcohol	Ave	0.999	1.050		52600	50000	5.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.170	3.197		50400	50000	0.9	20.0
2-Methylphenol	Ave	1.410	1.491		52900	50000	5.7	20.0
o-Toluidine	Ave	1.773	1.797		50700	50000	1.3	20.0
Acetophenone	Ave	2.258	2.245		49700	50000	-0.6	20.0
N-Nitrosodi-n-propylamine	Ave	1.356	1.390	0.0500	51200	50000	2.5	20.0
3 & 4 Methylphenol	Ave	1.485	1.533		51600	50000	3.3	20.0
4-Methylphenol	Ave	1.465	1.488		50800	50000	1.6	20.0
Hexachloroethane	Ave	0.6434	0.6694		52000	50000	4.0	20.0
n,n'-Dimethylaniline	Ave	1.723	1.699		49300	50000	-1.4	20.0
Nitrobenzene	Ave	0.7600	0.6905		45400	50000	-9.1	20.0
Isophorone	Ave	1.219	1.228		50400	50000	0.8	20.0
2-Nitrophenol	Ave	0.2680	0.2540		47400	50000	-5.2	20.0
2,4-Dimethylphenol	Ave	0.3649	0.4014		55000	50000	10.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.6448	0.6249		48500	50000	-3.1	20.0
2,4-Dichlorophenol	Ave	0.3919	0.3975		50700	50000	1.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3664	0.3488		47600	50000	-4.8	20.0
Benzoic acid	QuaF	0.1705	0.1592		43900	50000	-12.3	20.0
Naphthalene	Ave	1.003	0.9855		49100	50000	-1.8	20.0
4-Chloroaniline	Ave	0.4410	0.4579		51900	50000	3.8	20.0
Hexachlorobutadiene	Ave	0.2487	0.2373		47700	50000	-4.6	20.0
Caprolactam	LinF	0.1283	0.1262		42300	50000	-15.5	20.0
4-Chloro-3-methylphenol	Ave	0.4959	0.4801		48400	50000	-3.2	20.0
2-Methylnaphthalene	Ave	0.7736	0.7411		47900	50000	-4.2	20.0
1-Methylnaphthalene	Ave	0.7970	0.7793		48900	50000	-2.2	20.0
Hexachlorocyclopentadiene	LinF	0.2255	0.2637	0.0500	52700	50000	5.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5882	0.5566		47300	50000	-5.4	20.0
2-tertbutyl-4-methylphenol	Ave	0.5868	0.5898		50300	50000	0.5	20.0
2,4,6-Trichlorophenol	Ave	0.3707	0.3420		46100	50000	-7.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-31578-1

SDG No.:

Lab Sample ID: CCVIS 460-87541/2 Calibration Date: 09/27/2011 13:04

Instrument ID: BNAMS4 Calib Start Date: 09/23/2011 13:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 09/23/2011 15:09

Lab File ID: u70449.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.4016	0.3791		47200	50000	-5.6	20.0
Diphenyl	Ave	1.311	1.304		49700	50000	-0.6	20.0
2-Chloronaphthalene	Ave	1.049	1.007		48000	50000	-4.0	20.0
Diphenyl ether	Ave	0.7146	0.7017		49100	50000	-1.8	20.0
2-Nitroaniline	Ave	0.5034	0.4511		44800	50000	-10.4	20.0
Dimethylnaphthalene, total	Ave	0.8732	0.8411		48200	50000	-3.7	20.0
Dimethyl phthalate	Ave	1.358	1.256		46300	50000	-7.5	20.0
Coumarin	Ave	0.3187	0.3102		48700	50000	-2.7	20.0
2,6-Dinitrotoluene	Ave	0.3176	0.2912		45800	50000	-8.3	20.0
Acenaphthylene	Ave	1.636	1.477		45100	50000	-9.7	20.0
3-Nitroaniline	Ave	0.3524	0.3207		45500	50000	-9.0	20.0
Acenaphthene	Ave	0.9629	0.9170		47600	50000	-4.8	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	0.8106	0.7882		48600	50000	-2.8	20.0
2,4-Dinitrophenol	Ave	0.1923	0.1473	0.0500	38300	50000	-23.4*	20.0
Dibenzofuran	Ave	1.503	1.381		46000	50000	-8.1	20.0
4-Nitrophenol	Ave	0.3536	0.2962	0.0500	41900	50000	-16.2	20.0
2,4-Dinitrotoluene	Ave	0.4280	0.3636		42500	50000	-15.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3485	0.3340		47900	50000	-4.1	20.0
2-Naphthylamine	Ave	1.030	0.8422		40900	50000	-18.3	20.0
Diethyl phthalate	Ave	1.426	1.283		45000	50000	-10.0	20.0
Fluorene	Ave	1.238	1.126		45500	50000	-9.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.5544	0.5276		47600	50000	-4.8	20.0
4-Nitroaniline	Ave	0.3594	0.2894		40300	50000	-19.5	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1793	0.1482		41300	50000	-17.3	20.0
N-Nitrosodiphenylamine	Ave	0.5720	0.5945		52000	50000	3.9	20.0
1,2-Diphenylhydrazine	Ave	1.376	1.269		46100	50000	-7.8	20.0
4-Bromophenyl phenyl ether	Ave	0.3024	0.2941		48600	50000	-2.7	20.0
Hexachlorobenzene	Ave	0.3153	0.2902		46000	50000	-8.0	20.0
Atrazine	Ave	0.2613	0.2420		46300	50000	-7.4	20.0
Pentachlorophenol	LinF	0.1986	0.1818		41000	50000	-18.1	20.0
n-Octadecane	Ave	0.6722	0.6119		45500	50000	-9.0	20.0
Phenanthrene	Ave	1.039	0.9767		47000	50000	-6.0	20.0
Anthracene	Ave	1.081	0.9942		46000	50000	-8.0	20.0
Carbazole	Ave	1.148	1.000		43500	50000	-12.9	20.0
Di-n-butyl phthalate	Ave	1.725	1.539		44600	50000	-10.8	20.0
Fluoranthene	Ave	1.438	1.201		41800	50000	-16.4	20.0
Benzidine	Ave	0.3276	0.1858		28300	50000	-43.3*	20.0
Pyrene	QuaF	1.449	1.381		53700	50000	7.4	20.0
Butyl benzyl phthalate	Ave	0.8037	0.7770		48300	50000	-3.3	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1614	0.1345		417	500	-16.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-31578-1

SDG No.:

Lab Sample ID: CCVIS 460-87541/2 Calibration Date: 09/27/2011 13:04

Instrument ID: BNAMS4 Calib Start Date: 09/23/2011 13:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 09/23/2011 15:09

Lab File ID: u70449.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbamazepine	Ave	0.4830	0.4895		50700	50000	1.4	20.0
3,3'-Dichlorobenzidine	Ave	0.4293	0.4477		52100	50000	4.3	20.0
Benzo[a]anthracene	Ave	1.188	1.147		48300	50000	-3.5	20.0
Chrysene	Ave	0.9628	0.9794		50900	50000	1.7	20.0
Bis(2-ethylhexyl) phthalate	QuaF	0.8483	0.7152		50000	50000	0.0	20.0
Di-n-octyl phthalate	Ave	2.046	1.720		42000	50000	-15.9	20.0
Benzo[b]fluoranthene	Ave	1.431	1.539		53800	50000	7.6	20.0
Benzo[k]fluoranthene	Ave	1.275	1.137		44600	50000	-10.8	20.0
Benzo[a]pyrene	Ave	1.101	1.213		55100	50000	10.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.045	1.380		66000	50000	32.1*	20.0
Dibenz(a,h)anthracene	Ave	0.8580	0.9941		57900	50000	15.9	20.0
Benzo[g,h,i]perylene	Ave	0.8110	1.021		62900	50000	25.8*	20.0
2-Fluorophenol	Ave	1.477	1.528		51700	50000	3.5	20.0
Phenol-d5	Ave	2.292	2.333		50900	50000	1.8	20.0
Nitrobenzene-d5	Ave	0.6259	0.6167		49300	50000	-1.5	20.0
2-Fluorobiphenyl	Ave	1.116	1.080		48400	50000	-3.2	20.0
2,4,6-Tribromophenol	Ave	0.2585	0.2633		50900	50000	1.8	20.0
Terphenyl-d14	Ave	1.114	1.078		48400	50000	-3.2	20.0

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-31629-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-31629-1	SB-20 (1-2)	Solid	09/24/2011 1530	09/26/2011 1310
460-31629-2	SB-20 (72.5-75)	Solid	09/25/2011 1330	09/26/2011 1310
460-31629-3	SB-20 (108-110)	Solid	09/25/2011 1530	09/26/2011 1310

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) Jennifer Pfeiffer	Samplers Name (Printed) Luis Ferreira / Jessica Ehlen	Site/Project Identification Equity
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
Address One World Financial Center 200 Liberty St., 25th floor	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No: 31629
Phone 212-798-8500 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	8260B	8270C	6010B & 7470A	9014A	Sample Numbers
SB-20 (1-2)	9/24/11	1530	Soil	4	X	X	X	X	
SB-20 (72.5-75)	9/25/11	1330	Soil	4	X	X	X	X	
SB-20 (108-110)	9/25/11	1530	Soil	4	X	X	X	X	
Soil:					1	1	1	1	
Water:									

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Special Instructions

Water Metals Filtered (Yes/No)? _____

	Company	Date / Time		Company
Relinquished by 1) Jessica Ehlen	AECOM	9/26/11 12:00	Received by 1)	TAL NY
Relinquished by 2)	TAL NY	9/26/11 13:10	Received by 2)	
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 3.9°C IR#50

10/05/2011

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-31629-1

Login Number: 31629
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9 C IR# 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-31629-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: u70480.d

Lab ID: LCS 460-87462/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Naphthalene	3330	2640	79	53-94	
Acenaphthylene	3330	2570	77	51-103	
Acenaphthene	3330	2630	79	46-100	
Fluorene	3330	2810	84	51-108	
Phenanthrene	3330	2920	88	48-108	
Anthracene	3330	2820	85	50-107	
Fluoranthene	3330	2540	76	49-108	
Pyrene	3330	3290	99	49-116	
Benzo[a]anthracene	3330	2810	84	46-112	
Chrysene	3330	2860	86	45-114	
Benzo[b]fluoranthene	3330	3220	97	33-96	*
Benzo[k]fluoranthene	3330	3030	91	35-115	
Benzo[a]pyrene	3330	3100	93	36-89	*
Indeno[1,2,3-cd]pyrene	3330	2410	72	43-109	
Dibenz(a,h)anthracene	3330	2380	71	43-107	
Benzo[g,h,i]perylene	3330	2590	78	43-106	

Column to be used to flag recovery and RPD values

FORM III 8270C

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-31654-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-31654-1	SB-23 (89-90)	Solid	09/27/2011 1030	09/27/2011 1420
460-31654-2	Sb-23 (90-92.5)	Solid	09/27/2011 1030	09/27/2011 1420

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10/06/2011

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) Jennifer Pfeiffer	Samplers Name (Printed) Jessica Ehlen / Luis Fererria	Site/Project Identification Equity
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
Address One World Financial Center 200 Liberty St., 25th floor	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-798-8500 Fax		

ANALYSIS REQUESTED (ENTER 'X' BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 31659

Sample Identification	Date	Time	Matrix	No. of Cont.	8260B	8270C	6010B	7470A	9014A								Sample Numbers
SB-23 (89-90)	9/27/11	1030	Soil	4	X	X	X	X	X								
SB-23 (90-92.5)	9/27/11	1030	Soil	4	X	X	X	X	X								

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:	1	1	1	1	1											
Water:																

Special Instructions

Water Metals Filtered (Yes/No)?

	Company	Date / Time		Company
1) Relinquished by: Jessica Ehlen	AECOM	9/27/11 13:10	1) Received by:	TALNJ
2) Relinquished by:	TALNJ	9/27/11 14:20	2) Received by:	Company
3) Relinquished by:	Company	Date / Time	3) Received by:	Company
4) Relinquished by:	Company	Date / Time	4) Received by:	Company

3.6°C IR#50

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-31654-1

Login Number: 31654
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6 IR# 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 460-32732-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-32732-1	SB-22 (84-85)	Solid	10/20/2011 1620	10/21/2011 1856
460-32732-2	SB-22 (107.5-110)	Solid	10/20/2011 1700	10/21/2011 1856

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CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Jennifer Pfeiffer	Samplers Name (Printed) L. Ferreira / J. Ehler	Site/Project Identification Equity
Company AECOM	P. O. #	State (location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program:
Address 200 Liberty St. 25th floor	Analysis Turnaround Time: Standard ☑	
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-798-8500 Fax 212-798-8501		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs 8260	SVOCs 8270	RCRA8 Metals	Free Cyanide							LAB USE ONLY Project No:
															Job No: 32732
SB-22 (84-85)	10/20/11	1620	Soil	4	X	X	X	X							Sample Numbers
SB-22 (107.5-110)	10/20/11	1700	Soil	4	X	X	X	X							1 2
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____				Soil:	1	1	1	1							
				Water:											

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by 1) Jessica Ehler	Company AECOM	Date / Time 10/21/11 12:04	Received by 1)	Company TAL NJ
Relinquished by 2)	Company TAL NJ	Date / Time 10/21/11 1856	Received by 2)	Company TA. 10/21 1856
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) Packed in 1 Cooler.

2.1°C / #50

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-32732-1

Login Number: 32732
List Number: 1
Creator: Smith, Anthony G

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 IR# 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-32732-1

Login Number: 32732
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 10/25/11 12:54 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-32732-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: j04934.d

Lab ID: 460-32732-2 MS Client ID: SB-22 (107.5-110) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Benzene	2200	490	2510	4	71-118	F
Toluene	2200	1300	3430	-141	79-136	F
Ethylbenzene	2200	150	2530	80	78-124	
Xylenes, Total	6610	1200	8000	30	78-126	F
Styrene	2200	66 J	2350	92	73-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-32732-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: j04935.d

Lab ID: 460-32732-2 MSD Client ID: SB-22 (107.5-110) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	2200	2650	10	6	30	71-118	F
Toluene	2200	3580	-134	4	30	79-136	F
Ethylbenzene	2200	2560	82	1	30	78-124	
Xylenes, Total	6610	8090	31	1	30	78-126	F
Styrene	2200	2430	95	3	30	73-126	

Column to be used to flag recovery and RPD values

FORM III 8260B

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-32830-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-32830-1	SB-16 (92.5-95)	Solid	10/22/2011 1550	10/25/2011 1952
460-32830-2	SB-16 (102.5-105)	Solid	10/22/2011 1645	10/25/2011 1952
460-32830-3	SB-24 (98.5-99)	Solid	10/25/2011 1140	10/25/2011 1952
460-32830-4	SB-24 (108-110)	Solid	10/25/2011 1205	10/25/2011 1952

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) Jennifer Pfeiffer	Samplers Name (Printed) Jessica Ehlen	Site/Project Identification Equity
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
Address 200 Liberty St., 25th floor	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone 212-798-8500 Fax 212-798-8501		Job No: 32830

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs	SVOCs	RCRA 8 Metals	Free Cn	Sample Numbers
SB-16C (92.5-95)	10/22/11	1550	Soil	4	X	X	X	X	1
SB-16C (102.5-105)	10/22/11	1645	Soil	4	X	X	X	X	2
SB-24 (98.5-99)	10/25/11	1140	Soil	4	X	X	X	X	3
SB-24 (108-110)	10/25/11	1205	Soil	4	X	X	X	X	4
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____			Soil:		1	1	1	1	
			Water:						

Special Instructions

Water Metals Filtered (Yes/No)? _____

Relinquished by 1) Jessica Ehlen	Company AECOM	Date / Time 10/25/11 1600	Received by 1)	Company TRC
Relinquished by 2)	Company TRC	Date / Time 10/25/11 1952	Received by 2)	Company TRC 10/25 1952
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578)

PACKED IN ONE COOLER.

2.3°C IR#58

11/07/2011

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-32830-1

Login Number: 32830
List Number: 1
Creator: Smith, Anthony G

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3°C IR#-50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-32830-1

Login Number: 32830
List Number: 1
Creator: Stoudnour, Erin F

List Source: TestAmerica Pittsburgh
List Creation: 10/27/11 12:12 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-32830-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ	#	FBP	#	TPH	#
SB-16c (92.5-95)	460-32830-1	56		59		71	
SB-16c (102.5-105)	460-32830-2	61		65		87	
SB-24 (98.5-99) DL	460-32830-3 DL	0	D	0	D	0	D
SB-24 (108-110)	460-32830-4	38		42		57	
	MB 460-91059/1-A	81		85		106	
	LCS 460-91059/2-A	85		95		95	
	460-32876-A-10-H MS	69		75		82	
	460-32876-A-10-I MSD	64		69		75	

	QC LIMITS
NBZ = Nitrobenzene-d5	38-105
FBP = 2-Fluorobiphenyl	40-109
TPH = Terphenyl-d14	16-151

Column to be used to flag recovery values

FORM II 8270C

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-33095-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-33095-1	SB-30 (78-79)	Solid	10/29/2011 1505	11/01/2011 1727
460-33095-2	Dup-1	Solid	10/29/2011 0700	11/01/2011 1727
460-33095-3	SB-30 (92-94)	Solid	10/29/2011 1620	11/01/2011 1727
460-33095-3MS	SB-30 (92-94)	Solid	10/29/2011 1620	11/01/2011 1727
460-33095-3MSD	SB-30 (92-94)	Solid	10/29/2011 1620	11/01/2011 1727
460-33095-4	SB-30 (3-5)	Solid	10/23/2011 1100	11/01/2011 1727
460-33095-5	SB-19 (2-5)	Solid	10/30/2011 1040	11/01/2011 1727
460-33095-6	WC-1	Water	11/01/2011 1500	11/01/2011 1727

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11/16/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 2

Name (for report and invoice) Jennifer Pfeiffer	Samplers Name (Printed) Jessica Ehler	Site/Project Identification Equity
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program:
Address 200 Liberty St., 25th floor	Analysis Turnaround Time: Standard ☑	
City New York State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-798-8500 Fax 212-798-8501		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs	SVOCs	RCRA 8 metals	Free CN								LAB USE ONLY Project No: / Job No: 460-33095 / Sample Numbers
SB-30 (78-79)	10/29/11	1505	Soil	4	X	X	X	X								1
Dup-1	10/29/11	0700	Soil	4	X	X	X	X								2
SB-30 (92-94)	10/29/11	1620	Soil	4	X	X	X	X								3
SB-30 (92-94) MS/MSD	10/29/11	1620	Soil	4	X	X	X	X								3MS/MSD
SB-30 (3-5)	10/23/11	1100	Soil	4	X	X	X	X								4
SB-19 (2-5)	10/30/11	1040	Soil	4	X	X	X	X								5
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____				Soil:	1	1	1	1								
				Water:												

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Special Instructions Water Metals Filtered (Yes/No)? _____

Relinquished by Jessica Ehler	Company AECOM	Date / Time 11/1/11 15:28	Received by 1)	Company TAL NJ
Relinquished by 2)	Company TAL NJ	Date / Time 11/01/11 17:27	Received by 2)	Company TAL 11/1/11 1727
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0408)

PACKED in One COOLER

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33095-1

Login Number: 33095
List Number: 1
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No present.
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9°C IR#50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33095-1

Login Number: 33095
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 11/03/11 12:27 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33095-1

Login Number: 33095
List Number: 2
Creator: Reagle, Carl

List Source: TestAmerica Pittsburgh
List Creation: 11/03/11 01:24 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33095-1

Login Number: 33095
List Number: 1
Creator: Howard, Brandon L

List Source: TestAmerica Savannah
List Creation: 11/04/11 02:20 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-33095-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ	#	FBP	#	TPH	#
SB-30 (78-79)	460-33095-1	73		74		84	
Dup-1	460-33095-2	65		75		80	
SB-30 (92-94)	460-33095-3	86		92		93	
SB-30 (3-5)	460-33095-4	84		96		75	
SB-19 (2-5) DL	460-33095-5 DL	0	D	0	D	0	D
	MB 460-91661/1-A	90		88		94	
	LCS 460-91661/2-A	85		87		82	
SB-30 (92-94) MS	460-33095-3 MS	85		88		85	
SB-30 (92-94) MSD	460-33095-3 MSD	86		91		83	

	QC LIMITS
NBZ = Nitrobenzene-d5	38-105
FBP = 2-Fluorobiphenyl	40-109
TPH = Terphenyl-d14	16-151

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-33095-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p21328.d

Lab ID: 460-33095-3 MS Client ID: SB-30 (92-94) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Naphthalene	4720	470 U	4080	86	53-94	
Acenaphthylene	4720	470 U	4470	95	51-103	
Acenaphthene	4720	470 U	4570	97	46-100	
Fluorene	4720	470 U	4790	101	51-108	
Phenanthrene	4720	470 U	5220	111	48-108	F
Anthracene	4720	470 U	4850	103	50-107	
Fluoranthene	4720	470 U	5150	109	49-108	F
Pyrene	4720	470 U	3990	84	49-116	
Benzo[a]anthracene	4720	47 U	4330	92	46-112	
Chrysene	4720	470 U	4690	99	45-114	
Benzo[b]fluoranthene	4720	47 U	4580	97	33-96	F
Benzo[k]fluoranthene	4720	47 U	4360	92	35-115	
Benzo[a]pyrene	4720	47 U	4350	92	36-89	F
Indeno[1,2,3-cd]pyrene	4720	47 U	5130	109	43-109	
Dibenz(a,h)anthracene	4720	47 U	5010	106	43-107	
Benzo[g,h,i]perylene	4720	470 U	5090	108	43-106	F

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-33095-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p21329.d

Lab ID: 460-33095-3 MSD Client ID: SB-30 (92-94) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	4720	4100	87	1	30	53-94	
Acenaphthylene	4720	4600	98	3	30	51-103	
Acenaphthene	4720	4660	99	2	30	46-100	
Fluorene	4720	4920	104	3	30	51-108	
Phenanthrene	4720	5260	111	1	30	48-108	F
Anthracene	4720	5000	106	3	30	50-107	
Fluoranthene	4720	5380	114	4	30	49-108	F
Pyrene	4720	3890	82	3	30	49-116	
Benzo[a]anthracene	4720	4250	90	2	30	46-112	
Chrysene	4720	4620	98	1	30	45-114	
Benzo[b]fluoranthene	4720	4670	99	2	30	33-96	F
Benzo[k]fluoranthene	4720	4320	92	1	30	35-115	
Benzo[a]pyrene	4720	4330	92	0	30	36-89	F
Indeno[1,2,3-cd]pyrene	4720	4910	104	4	30	43-109	
Dibenz(a,h)anthracene	4720	5130	109	2	30	43-107	F
Benzo[g,h,i]perylene	4720	5200	110	2	30	43-106	F

Column to be used to flag recovery and RPD values

FORM III 8270C

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-33471-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-33471-1	SB-19(70-75)	Solid	11/06/2011 0805	11/09/2011 0915
460-33471-2	SB-19(85-87.5)	Solid	11/06/2011 0930	11/09/2011 0915

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Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

11/21/2011

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) Pete Cox	Samplers Name (Printed) Joshua Millard	Site/Project Identification EQUITY R
Company AECOM	P.O.#	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 250 Apollo Dr.	Analysis Turnaround Time: Standard ☒	Regulatory Program: NYSDEC
City Chelmsford State MA	Rush (Charges Authorized For): 2 Week ☐ 1 Week ☐ Other ☐	
Phone 978 905 2100 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs	SVOCs	RCRA 8 Metals	Free CN	Sample Numbers
SB-19 (70-75)	11-6-11	845	S	4	X	X	X	X	1
SB-19 (85-87.5)	11-6-11	930	S	4	X	X	X	X	2
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	1	1	1	1	
6 = Other _____ 7 = Other _____				Water:					

LAB USE ONLY
Project No:
Job No: 33497

Special Instructions:

Water Metals Filtered (Yes/No)?

	Company	Date / Time	Received by	Company
Relinquished by 1)	AECOM	11/8/11 14:51	1)	TAL NY
Relinquished by 2)	Fed Ex	11/8/11 15:45	2)	
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company 11/9/2011 9:15

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0408)

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33471-1

Login Number: 33471
List Number: 1
Creator: McClain, Mark A

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4 C IR# 50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-33471-1

Login Number: 33471
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 11/11/11 02:56 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
March 2011

Data Usability Summary Report
National Grid/Equity Former MGP Site
H2M SDG No.: AECOM126
Final

AECOM Environment

Submitted to:
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60137362-400
March 2011

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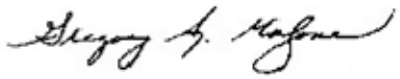
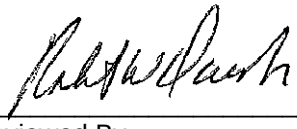
Final



Prepared By
Gregory Malzone, Project Chemist
AECOM
Four Gateway Center
444 Liberty Avenue, Suite 700
Pittsburgh, PA 15222-1220



Reviewed By
Robert Davis, Data Validator/Database Technician
AECOM
1360 Peachtree Street NE, Suite 500
Atlanta, GA 30309

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Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM - Pittsburgh on one data report for the air and soil vapor samples collected at the Equity Former MGP Site in Brooklyn, NY. The samples were analyzed by H2M Labs, 575 Broad Hollow, Melville, NY 11747 for volatile organic compounds using USEPA Compendium Method TO-15 and helium using ASTM Method D-1946.

The following samples were collected on February 12, 2011 and submitted to H2M on February 15, 2011. The samples were assigned to H2M sample delivery group (SDG) No. AECOM126.

Table 1
Sample Submittals – 2011 Equity SVI

Field ID	H2M ID	Matrix	Date Sampled	Canister ID
AMB1	1102485-001	Ambient Air	2/12/2011	3395
IA1	1102485-002	Indoor Air	2/12/2011	3404
IA1 DUP	1102485-003	Indoor Air (QC)	2/12/2011	1622
SS1	1102485-004	Soil Vapor	2/12/2011	3406

The data were evaluated for conformance to method specifications and qualifiers were applied using the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999, as they apply to the analytical methods employed.

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air and soil vapor) with some qualifications. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable. The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

AECOM126

Blank Contamiantion (pp. V131-133): Methylene chloride was detected in method blank VBLK022111 at a concentration estimated below the reporting limit. The positive methylene chloride results for samples AMB1, IA1, IA1 DUP, and SS1 were greater than ten times the blank level. Based on professional judgment, the positive methylene chloride results for samples AMB1, IA1, IA1 DUP, and SS1 were qualified "J," as estimated concentrations, because of high bias due to laboratory contamination.

Systematic Contamination (Form Is): Acetone was detected in samples AMB1, IA1, IA1 DUP, and SS1 within this SDG. In the *National Functional* Guidelines, the USEPA identifies acetone as a common laboratory solvent and contaminant. Although acetone was not detected in the associated method blank, it was strongly suspected that the acetone results for samples AMB1, IA1, IA1 DUP, and SS1 were caused by laboratory contamination.

Laboratory Control Sample Recovery (pp. V4-V6): The LCS (LFB022111) recoveries for 1,1,2-trichloro-1,2,2,-trifluoroethane, chloroform, 1,2-dichloroethane, and bromoform were greater than the upper quality control limit of 130%. All samples were affected. The positive chloroform results for samples IA1, IA1 DUP, and SS1, and the positive 1,1,2-trichloro-1,2,2,-trifluoroethane result for sample SS1 were qualified "J," as estimated concentrations, because of high method bias. Non-detect results were not qualified on this basis.

Calibrations (pp. V99-V102): The 02/18-19/11 initial calibration relative standard deviations for naphthalene, 1,2,4-trichlorobenzene, 1,2,4,5-tetramethylbenzene, and 2-methylnaphthalene were greater than the method specification limit of 30% on instrument HP5973I. All samples were affected. The naphthalene, 1,2,4-trichlorobenzene, 1,2,4,5-tetramethylbenzene, and 2-methylnaphthalene results for samples AMB1, IA1, IA1 DUP, and SS1 were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

Elevated Reporting Limits (V116-V117): An elevated response was observed at the lowest initial calibration level (i.e., 0.16 ppbv) for methylene chloride, acetone, isopropanol, ethanol, and propylene. The reporting limit was elevated to 2.0 ppbv. Methylene chloride, acetone, isopropanol, ethanol, and propylene results that were less than 2.0 ppbv were qualified "J," as estimated concentrations, because of the greater uncertainty below the reporting limit. The methylene chloride, acetone, isopropanol, and ethanol results for AMB1, IA1, IA1 DUP, and SS1 were positive. The results for propylene for AMB1, IA1, IA1 DUP, and SS1 were non-detect at the elevated reporting limit. Based on professional judgment, the non-detect propylene results were qualified "UJ," as estimates, because of interference with compound qualtitation.

Dilutions (Form Is): Samples IA1 and IA1 DUP required analysis at a ten-fold dilution to bring the ethanol concentration into the calibration range. Both sets of data were reported for review. The results of the ten-fold dilution analyses must be reported for ethanol and the results for undiluted analyses must be reported for all other target compounds. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits for the initial and ten-fold dilution analyses. No data qualifications were required.

2.0 Helium

AECOM126

No data quality issues were noted. No data qualifications were required.

3.0 Field Duplicate Precision

A field duplicate sample was collected for sample IA1. The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 2 below. The advisory limit for RPD is 25% for air/soil gas, or the difference between the primary and field duplicate results must be less than or equal to the reporting limit for results less than five times the reporting limit. The primary and field duplicate results for acetone, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and tetrachloroethene required qualification (i.e., "J") as estimated concentrations, because of field sampling and/or laboratory imprecision and/or sample heterogeneity. See Table 2 below for details.

Table 2
Field Duplicate Precision – 2011 Equity SVI

Parameter	IA1		IA1 DUP		RPD (%)
2,3-Dimethylpentane	0.800 U	ppbv	0.200 J	ppbv	NC*
2-Methylpentane	0.280 J	ppbv	0.330 J	ppbv	16
Methylene chloride	3.69	ppbv	3.32	ppbv	11
Trichlorofluoromethane	0.360	ppbv	0.340	ppbv	6
Chloroform	0.230	ppbv	0.240	ppbv	4
Cyclohexane	0.088 U	ppbv	0.180 J	ppbv	NC*
2,2,4-Trimethylpentane	0.640 J	ppbv	1.05	ppbv	49*
Benzene	0.350	ppbv	0.420	ppbv	18
Toluene	13.9	ppbv	12.0	ppbv	15
Ethylbenzene	0.880	ppbv	0.900	ppbv	2
m,p-Xylene	2.98	ppbv	3.35	ppbv	12
o-Xylene	1.05	ppbv	1.19	ppbv	13
Styrene	0.160	ppbv	0.240	ppbv	40*
Acetone	**16.0 J**	**ppbv**	**28.1 J**	**ppbv**	**55**
Ethanol	205	ppbv	205	ppbv	0
4-Ethyltoluene	0.440 J	ppbv	0.520 J	ppbv	17
Isopentane	3.85	ppbv	3.24	ppbv	17
Isopropanol	8.24	ppbv	8.61	ppbv	4
Hexane	0.510 J	ppbv	0.440 J	ppbv	15
Heptane	0.440 J	ppbv	0.410 J	ppbv	7
Methyl ethyl ketone	1.62	ppbv	1.42	ppbv	13
Methyl isobutyl ketone	0.580 J	ppbv	0.690 J	ppbv	17
1,2,3-Trimethylbenzene	0.350 J	ppbv	0.530	ppbv	41*
1,2,4-Trimethylbenzene	**1.43 J**	**ppbv**	**2.04 J**	**ppbv**	**35**
1,3,5-Trimethylbenzene	**0.430 J**	**ppbv**	**0.670 J**	**ppbv**	**44**
Tetrachloroethene	**0.740 J**	**ppbv**	**0.330 J**	**ppbv**	**77**
1,4-Dichlorobenzene	0.240	ppbv	0.250	ppbv	4
Indan	0.220 J	ppbv	0.310 J	ppbv	34*

RPD: Relative percent difference;

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit for results less than five times the reporting limit. Variation of this magnitude is acceptable.

4.0 Notes

Positive results less than the reporting limit (i.e., practical quantitation limit or PQL), but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. These data qualifications were retained in this data validation.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-001**
Client Sample ID: AMB 1

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 3:49:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 9:00 PM
2-Methylpentane	0.280	ppbv	J	1	0.987	µg/m³	02/21/2011 9:00 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	02/21/2011 9:00 PM
Isopentane	3.36	ppbv		1	9.92	µg/m³	02/21/2011 9:00 PM
Propylene	< 2.00	ppbv	UJ	1	< 3.44	µg/m³	02/21/2011 9:00 PM
Dichlorodifluoromethane	< 0.160	ppbv		1	< 0.791	µg/m³	02/21/2011 9:00 PM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	02/21/2011 9:00 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	02/21/2011 9:00 PM
Bromomethane	< 0.160	ppbv		1	< 0.622	µg/m³	02/21/2011 9:00 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	02/21/2011 9:00 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	02/21/2011 9:00 PM
Ethanol	22.9	ppbv		1	43.2	µg/m³	02/21/2011 9:00 PM
Isopropanol	2.87	ppbv		1	7.05	µg/m³	02/21/2011 9:00 PM
JV 2/28/11 Methylene chloride	1.79	ppbv	J ~~B~~	1	6.95	µg/m³	02/21/2011 9:00 PM
Acetone	8.07	ppbv		1	19.2	µg/m³	02/21/2011 9:00 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	02/21/2011 9:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 9:00 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 9:00 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 9:00 PM
Trichlorofluoromethane	0.310	ppbv		1	1.74	µg/m³	02/21/2011 9:00 PM
n-Hexane	0.490	ppbv	J	1	1.73	µg/m³	02/21/2011 9:00 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 9:00 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	02/21/2011 9:00 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 9:00 PM
Tetrahydrofuran	< 0.800	ppbv		1	< 2.36	µg/m³	02/21/2011 9:00 PM
Methyl ethyl ketone	0.690	ppbv	J	1	2.04	µg/m³	02/21/2011 9:00 PM
Chloroform	< 0.160	ppbv		1	< 0.781	µg/m³	02/21/2011 9:00 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 9:00 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 9:00 PM
Cyclohexane	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 9:00 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 9:00 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	02/21/2011 9:00 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin

Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V31

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-001**
Client Sample ID: AMB 1

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 3:49:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	02/21/2011 9:00 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	02/21/2011 9:00 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 9:00 PM
2,2,4-Trimethylpentane	< 0.800	ppbv		1	< 3.74	µg/m³	02/21/2011 9:00 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 9:00 PM
Trichloroethene	< 0.160	ppbv		1	< 0.860	µg/m³	02/21/2011 9:00 PM
Benzene	0.330	ppbv		1	1.05	µg/m³	02/21/2011 9:00 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.81	µg/m³	02/21/2011 9:00 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 9:00 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 9:00 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	02/21/2011 9:00 PM
n-Heptane	0.280	ppbv	J	1	1.15	µg/m³	02/21/2011 9:00 PM
Methyl isobutyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 9:00 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 9:00 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 9:00 PM
Tetrachloroethene	< 0.160	ppbv		1	< 1.09	µg/m³	02/21/2011 9:00 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	02/21/2011 9:00 PM
Toluene	6.95	ppbv		1	26.2	µg/m³	02/21/2011 9:00 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	02/21/2011 9:00 PM
Ethylbenzene	0.240	ppbv		1	1.04	µg/m³	02/21/2011 9:00 PM
Styrene	< 0.160	ppbv		1	< 0.682	µg/m³	02/21/2011 9:00 PM
Xylenes (m&p)	0.790	ppbv		1	3.43	µg/m³	02/21/2011 9:00 PM
Xylenes (o)	0.250	ppbv		1	1.09	µg/m³	02/21/2011 9:00 PM
4-Ethyltoluene	< 0.800	ppbv		1	< 3.93	µg/m³	02/21/2011 9:00 PM
1,3,5-Trimethylbenzene	< 0.160	ppbv		1	< 0.787	µg/m³	02/21/2011 9:00 PM
1,2,4-Trimethylbenzene	0.300	ppbv		1	1.47	µg/m³	02/21/2011 9:00 PM
1,2,3-Trimethylbenzene	< 0.800	ppbv		1	< 3.93	µg/m³	02/21/2011 9:00 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 9:00 PM
1,4-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 9:00 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 9:00 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	02/21/2011 9:00 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	02/21/2011 9:00 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V32

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-001**
Client Sample ID: AMB 1

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 3:49:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,2,4-Trichlorobenzene	< 0.800	ppbv	UJ	1	< 5.94	µg/m³	02/21/2011 9:00 PM
Indan	< 0.800	ppbv		1	< 3.87	µg/m³	02/21/2011 9:00 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	02/21/2011 9:00 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv	UJ	1	< 4.39	µg/m³	02/21/2011 9:00 PM
Naphthalene	< 0.800	ppbv	UJ	1	< 4.19	µg/m³	02/21/2011 9:00 PM
2-Methylnaphthalene	< 0.800	ppbv	UJ	1	< 4.65	µg/m³	02/21/2011 9:00 PM
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	02/21/2011 9:00 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V33

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 1102485-002
Client Sample ID:IA1

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 4:32:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 10:45 PM
2,3-Dimethylpentane	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 9:53 PM
2-Methylpentane	0.280	ppbv	J	1	0.987	µg/m³	02/21/2011 10:45 PM
2-Methylpentane	< 8.00	ppbv	D	10	< 28.2	µg/m³	02/21/2011 9:53 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	02/21/2011 10:45 PM
Freon-114	< 1.60	ppbv	D	10	< 11.2	µg/m³	02/21/2011 9:53 PM
Isopentane	3.85	ppbv		1	11.4	µg/m³	02/21/2011 10:45 PM
Isopentane	3.80	ppbv	JD	10	11.2	µg/m³	02/21/2011 9:53 PM
Propylene	< 2.00	ppbv	UJ	1	< 3.44	µg/m³	02/21/2011 10:45 PM
Propylene	< 20.0	ppbv	D	10	< 34.4	µg/m³	02/21/2011 9:53 PM
Dichlorodifluoromethane	< 0.160	ppbv		1	< 0.791	µg/m³	02/21/2011 10:45 PM
Dichlorodifluoromethane	< 1.60	ppbv	D	10	< 7.91	µg/m³	02/21/2011 9:53 PM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	02/21/2011 10:45 PM
Chloromethane	< 1.60	ppbv	D	10	< 3.30	µg/m³	02/21/2011 9:53 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	02/21/2011 10:45 PM
1,3-Butadiene	< 8.00	ppbv	D	10	< 17.7	µg/m³	02/21/2011 9:53 PM
Bromomethane	< 0.160	ppbv		1	< 0.622	µg/m³	02/21/2011 10:45 PM
Bromomethane	< 1.60	ppbv	D	10	< 6.22	µg/m³	02/21/2011 9:53 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	02/21/2011 10:45 PM
Vinyl chloride	< 1.60	ppbv	D	10	< 4.09	µg/m³	02/21/2011 9:53 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	02/21/2011 10:45 PM
Chloroethane	< 1.60	ppbv	D	10	< 4.22	µg/m³	02/21/2011 9:53 PM
Ethanol	200	ppbv	E	1	377	µg/m³	02/21/2011 10:45 PM
Ethanol	205	ppbv	D Repeat	10	386	µg/m³	02/21/2011 9:53 PM
Isopropanol	8.24	ppbv		1	20.3	µg/m³	02/21/2011 10:45 PM
Isopropanol	7.80	ppbv	JD	10	19.2	µg/m³	02/21/2011 9:53 PM
Methylene chloride	3.69	ppbv	B J	1	14.3	µg/m³	02/21/2011 10:45 PM
Methylene chloride	5.30	ppbv	JDB	10	20.6	µg/m³	02/21/2011 9:53 PM
Acetone	16.0	ppbv	J	1	38.1	µg/m³	02/21/2011 10:45 PM
Acetone	16.4	ppbv	JD	10	39.0	µg/m³	02/21/2011 9:53 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	02/21/2011 10:45 PM
Carbon disulfide	< 8.00	ppbv	D	10	< 24.9	µg/m³	02/21/2011 9:53 PM

JV 4/28/11

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V44

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-002**
Client Sample ID: IA1

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 4:32:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 10:45 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	02/21/2011 9:53 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 10:45 PM
1,1-Dichloroethene	< 1.60	ppbv	D	10	< 6.34	µg/m³	02/21/2011 9:53 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 10:45 PM
1,1-Dichloroethane	< 1.60	ppbv	D	10	< 6.48	µg/m³	02/21/2011 9:53 PM
Trichlorofluoromethane	0.360	ppbv		1	2.02	µg/m³	02/21/2011 10:45 PM
Trichlorofluoromethane	< 1.60	ppbv	D	10	< 8.99	µg/m³	02/21/2011 9:53 PM
n-Hexane	0.510	ppbv	J	1	1.80	µg/m³	02/21/2011 10:45 PM
n-Hexane	< 8.00	ppbv	D	10	< 28.2	µg/m³	02/21/2011 9:53 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 10:45 PM
Methyl tert-butyl ether	< 8.00	ppbv	D	10	< 28.8	µg/m³	02/21/2011 9:53 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	02/21/2011 10:45 PM
1,2-Dichloroethene (trans)	< 8.00	ppbv	D	10	< 31.7	µg/m³	02/21/2011 9:53 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 10:45 PM
1,2-Dichloroethene (cis)	< 1.60	ppbv	D	10	< 6.34	µg/m³	02/21/2011 9:53 PM
Tetrahydrofuran	< 0.800	ppbv		1	< 2.36	µg/m³	02/21/2011 10:45 PM
Tetrahydrofuran	< 8.00	ppbv	D	10	< 23.6	µg/m³	02/21/2011 9:53 PM
Methyl ethyl ketone	1.62	ppbv		1	4.78	µg/m³	02/21/2011 10:45 PM
Methyl ethyl ketone	< 8.00	ppbv	D	10	< 23.6	µg/m³	02/21/2011 9:53 PM
Chloroform	0.230	ppbv	J	1	1.12	µg/m³	02/21/2011 10:45 PM
Chloroform	< 1.60	ppbv	D	10	< 7.81	µg/m³	02/21/2011 9:53 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 10:45 PM
1,2-Dichloroethane	< 1.60	ppbv	D	10	< 6.48	µg/m³	02/21/2011 9:53 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 10:45 PM
1,1,1-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	02/21/2011 9:53 PM
Cyclohexane	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 10:45 PM
Cyclohexane	< 8.00	ppbv	D	10	< 27.5	µg/m³	02/21/2011 9:53 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 10:45 PM
Thiophene	< 8.00	ppbv	D	10	< 27.5	µg/m³	02/21/2011 9:53 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	02/21/2011 10:45 PM
Carbon tetrachloride	< 1.60	ppbv	D	10	< 10.1	µg/m³	02/21/2011 9:53 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V45

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-002**
Client Sample ID: IA1

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 4:32:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	02/21/2011 10:45 PM
Bromodichloromethane	< 8.00	ppbv	D	10	< 53.6	µg/m³	02/21/2011 9:53 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	02/21/2011 10:45 PM
1,2-Dichloropropane	< 1.60	ppbv	D	10	< 7.39	µg/m³	02/21/2011 9:53 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 10:45 PM
1,4-Dioxane	< 8.00	ppbv	D	10	< 28.8	µg/m³	02/21/2011 9:53 PM
2,2,4-Trimethylpentane	0.640	ppbv	J	1	2.99	µg/m³	02/21/2011 10:45 PM
2,2,4-Trimethylpentane	< 8.00	ppbv	D	10	< 37.4	µg/m³	02/21/2011 9:53 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 10:45 PM
1,3-Dichloropropene (cis)	< 1.60	ppbv	D	10	< 7.26	µg/m³	02/21/2011 9:53 PM
Trichloroethene	< 0.160	ppbv		1	< 0.860	µg/m³	02/21/2011 10:45 PM
Trichloroethene	< 1.60	ppbv	D	10	< 8.60	µg/m³	02/21/2011 9:53 PM
Benzene	0.350	ppbv		1	1.12	µg/m³	02/21/2011 10:45 PM
Benzene	< 1.60	ppbv	D	10	< 5.11	µg/m³	02/21/2011 9:53 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.81	µg/m³	02/21/2011 10:45 PM
Dibromochloromethane	< 8.00	ppbv	D	10	< 68.1	µg/m³	02/21/2011 9:53 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 10:45 PM
1,3-Dichloropropene (trans)	< 1.60	ppbv	D	10	< 7.26	µg/m³	02/21/2011 9:53 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 10:45 PM
1,1,2-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	02/21/2011 9:53 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	02/21/2011 10:45 PM
Bromoform	< 8.00	ppbv	D	10	< 82.7	µg/m³	02/21/2011 9:53 PM
n-Heptane	0.440	ppbv	J	1	1.80	µg/m³	02/21/2011 10:45 PM
n-Heptane	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 9:53 PM
Methyl isobutyl ketone	0.580	ppbv	J	1	2.38	µg/m³	02/21/2011 10:45 PM
Methyl isobutyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 9:53 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 10:45 PM
Methyl butyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 9:53 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 10:45 PM
1,2-Dibromoethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	02/21/2011 9:53 PM
Tetrachloroethene	0.740	ppbv	J	1	5.02	µg/m³	02/21/2011 10:45 PM
Tetrachloroethene	< 1.60	ppbv	D	10	< 10.9	µg/m³	02/21/2011 9:53 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V46

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : 1102485-002
Client Sample ID: IA1

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 4:32:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	02/21/2011 10:45 PM
1,1,2,2-Tetrachloroethane	< 1.60	ppbv	D	10	< 11.0	µg/m³	02/21/2011 9:53 PM
Toluene	13.9	ppbv		1	52.4	µg/m³	02/21/2011 10:45 PM
Toluene	11.7	ppbv	D	10	44.1	µg/m³	02/21/2011 9:53 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	02/21/2011 10:45 PM
Chlorobenzene	< 1.60	ppbv	D	10	< 7.37	µg/m³	02/21/2011 9:53 PM
Ethylbenzene	0.880	ppbv		1	3.82	µg/m³	02/21/2011 10:45 PM
Ethylbenzene	< 1.60	ppbv	D	10	< 6.95	µg/m³	02/21/2011 9:53 PM
Styrene	0.160	ppbv		1	0.682	µg/m³	02/21/2011 10:45 PM
Styrene	< 1.60	ppbv	D	10	< 6.82	µg/m³	02/21/2011 9:53 PM
Xylenes (m&p)	2.98	ppbv		1	12.9	µg/m³	02/21/2011 10:45 PM
Xylenes (m&p)	1.90	ppbv	D	10	8.25	µg/m³	02/21/2011 9:53 PM
Xylenes (o)	1.05	ppbv		1	4.56	µg/m³	02/21/2011 10:45 PM
Xylenes (o)	< 1.60	ppbv	D	10	< 6.95	µg/m³	02/21/2011 9:53 PM
4-Ethyltoluene	0.440	ppbv	J	1	2.16	µg/m³	02/21/2011 10:45 PM
4-Ethyltoluene	< 8.00	ppbv	D	10	< 39.3	µg/m³	02/21/2011 9:53 PM
1,3,5-Trimethylbenzene	0.430	ppbv	J	1	2.11	µg/m³	02/21/2011 10:45 PM
1,3,5-Trimethylbenzene	< 1.60	ppbv	D	10	< 7.87	µg/m³	02/21/2011 9:53 PM
1,2,4-Trimethylbenzene	1.43	ppbv	J	1	7.03	µg/m³	02/21/2011 10:45 PM
1,2,4-Trimethylbenzene	< 1.60	ppbv	D	10	< 7.87	µg/m³	02/21/2011 9:53 PM
1,2,3-Trimethylbenzene	0.350	ppbv	J	1	1.72	µg/m³	02/21/2011 10:45 PM
1,2,3-Trimethylbenzene	< 8.00	ppbv	D	10	< 39.3	µg/m³	02/21/2011 9:53 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 10:45 PM
1,3-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 9:53 PM
1,4-Dichlorobenzene	0.240	ppbv		1	1.44	µg/m³	02/21/2011 10:45 PM
1,4-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 9:53 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 10:45 PM
1,2-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 9:53 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	02/21/2011 10:45 PM
Benzyl chloride	< 1.60	ppbv	D	10	< 8.28	µg/m³	02/21/2011 9:53 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	02/21/2011 10:45 PM
1,3-Hexachlorobutadiene	< 8.00	ppbv	D	10	< 85.3	µg/m³	02/21/2011 9:53 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V47

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-002**
Client Sample ID: IA1

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 4:32:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,2,4-Trichlorobenzene	< 0.800	ppbv	UJ	1	< 5.94	µg/m³	02/21/2011 10:45 PM
1,2,4-Trichlorobenzene	< 8.00	ppbv	D	10	< 59.4	µg/m³	02/21/2011 9:53 PM
Indan	0.220	ppbv	J	1	1.06	µg/m³	02/21/2011 10:45 PM
Indan	< 8.00	ppbv	D	10	< 38.7	µg/m³	02/21/2011 9:53 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	02/21/2011 10:45 PM
Indene	< 8.00	ppbv	D	10	< 38.0	µg/m³	02/21/2011 9:53 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv	UJ	1	< 4.39	µg/m³	02/21/2011 10:45 PM
1,2,4,5-Tetramethylbenzene	< 8.00	ppbv	D	10	< 43.9	µg/m³	02/21/2011 9:53 PM
Naphthalene	< 0.800	ppbv	UJ	1	< 4.19	µg/m³	02/21/2011 10:45 PM
Naphthalene	< 8.00	ppbv	D	10	< 41.9	µg/m³	02/21/2011 9:53 PM
2-Methylnaphthalene	< 0.800	ppbv	UJ	1	< 4.65	µg/m³	02/21/2011 10:45 PM
2-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	02/21/2011 9:53 PM
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	02/21/2011 10:45 PM
1-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	02/21/2011 9:53 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin

Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V48

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-003**
Client Sample ID: IA1 DUP

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 5:05:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	0.200	ppbv	J	1	0.820	µg/m³	02/21/2011 11:37 PM
2,3-Dimethylpentane	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 7:16 PM
2-Methylpentane	0.330	ppbv	J	1	1.16	µg/m³	02/21/2011 11:37 PM
2-Methylpentane	< 8.00	ppbv	D	10	< 28.2	µg/m³	02/21/2011 7:16 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	02/21/2011 11:37 PM
Freon-114	< 1.60	ppbv	D	10	< 11.2	µg/m³	02/21/2011 7:16 PM
Isopentane	3.24	ppbv		1	9.56	µg/m³	02/21/2011 11:37 PM
Isopentane	3.20	ppbv	JD	10	9.44	µg/m³	02/21/2011 7:16 PM
Propylene	< 2.00	ppbv	UJ	1	< 3.44	µg/m³	02/21/2011 11:37 PM
Propylene	< 20.0	ppbv	D	10	< 34.4	µg/m³	02/21/2011 7:16 PM
Dichlorodifluoromethane	< 0.160	ppbv		1	< 0.791	µg/m³	02/21/2011 11:37 PM
Dichlorodifluoromethane	2.20	ppbv	D	10	10.9	µg/m³	02/21/2011 7:16 PM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	02/21/2011 11:37 PM
Chloromethane	< 1.60	ppbv	D	10	< 3.30	µg/m³	02/21/2011 7:16 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	02/21/2011 11:37 PM
1,3-Butadiene	< 8.00	ppbv	D	10	< 17.7	µg/m³	02/21/2011 7:16 PM
Bromomethane	< 0.160	ppbv		1	< 0.622	µg/m³	02/21/2011 11:37 PM
Bromomethane	< 1.60	ppbv	D	10	< 6.22	µg/m³	02/21/2011 7:16 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	02/21/2011 11:37 PM
Vinyl chloride	< 1.60	ppbv	D	10	< 4.09	µg/m³	02/21/2011 7:16 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	02/21/2011 11:37 PM
Chloroethane	< 1.60	ppbv	D	10	< 4.22	µg/m³	02/21/2011 7:16 PM
Ethanol	241	ppbv	E	1	455	µg/m³	02/21/2011 11:37 PM
Ethanol	205	ppbv	D repeat	10	386	µg/m³	02/21/2011 7:16 PM
Isopropanol	8.61	ppbv		1	21.2	µg/m³	02/21/2011 11:37 PM
Isopropanol	9.50	ppbv	JD	10	23.3	µg/m³	02/21/2011 7:16 PM
Methylene chloride	3.32	ppbv	B J	1	12.9	µg/m³	02/21/2011 11:37 PM
Methylene chloride	4.90	ppbv	JDB	10	19.0	µg/m³	02/21/2011 7:16 PM
Acetone	28.1	ppbv	J	1	66.7	µg/m³	02/21/2011 11:37 PM
Acetone	27.8	ppbv	D	10	66.0	µg/m³	02/21/2011 7:16 PM
Carbon disulfide	< 0.800	ppbv		1	< 2.49	µg/m³	02/21/2011 11:37 PM
Carbon disulfide	< 8.00	ppbv	D	10	< 24.9	µg/m³	02/21/2011 7:16 PM

JV 2/28/11

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V70

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-003**
Client Sample ID: IA1 DUP

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 5:05:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 11:37 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	02/21/2011 7:16 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 11:37 PM
1,1-Dichloroethene	< 1.60	ppbv	D	10	< 6.34	µg/m³	02/21/2011 7:16 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 11:37 PM
1,1-Dichloroethane	< 1.60	ppbv	D	10	< 6.48	µg/m³	02/21/2011 7:16 PM
Trichlorofluoromethane	0.340	ppbv		1	1.91	µg/m³	02/21/2011 11:37 PM
Trichlorofluoromethane	< 1.60	ppbv	D	10	< 8.99	µg/m³	02/21/2011 7:16 PM
n-Hexane	0.440	ppbv	J	1	1.55	µg/m³	02/21/2011 11:37 PM
n-Hexane	< 8.00	ppbv	D	10	< 28.2	µg/m³	02/21/2011 7:16 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 11:37 PM
Methyl tert-butyl ether	< 8.00	ppbv	D	10	< 28.8	µg/m³	02/21/2011 7:16 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	02/21/2011 11:37 PM
1,2-Dichloroethene (trans)	< 8.00	ppbv	D	10	< 31.7	µg/m³	02/21/2011 7:16 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 11:37 PM
1,2-Dichloroethene (cis)	< 1.60	ppbv	D	10	< 6.34	µg/m³	02/21/2011 7:16 PM
Tetrahydrofuran	< 0.800	ppbv		1	< 2.36	µg/m³	02/21/2011 11:37 PM
Tetrahydrofuran	< 8.00	ppbv	D	10	< 23.6	µg/m³	02/21/2011 7:16 PM
Methyl ethyl ketone	1.42	ppbv		1	4.19	µg/m³	02/21/2011 11:37 PM
Methyl ethyl ketone	< 8.00	ppbv	D	10	< 23.6	µg/m³	02/21/2011 7:16 PM
Chloroform	0.240	ppbv	J	1	1.17	µg/m³	02/21/2011 11:37 PM
Chloroform	< 1.60	ppbv	D	10	< 7.81	µg/m³	02/21/2011 7:16 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 11:37 PM
1,2-Dichloroethane	< 1.60	ppbv	D	10	< 6.48	µg/m³	02/21/2011 7:16 PM
1,1,1-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 11:37 PM
1,1,1-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	02/21/2011 7:16 PM
Cyclohexane	0.180	ppbv	J	1	0.620	µg/m³	02/21/2011 11:37 PM
Cyclohexane	< 8.00	ppbv	D	10	< 27.5	µg/m³	02/21/2011 7:16 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 11:37 PM
Thiophene	< 8.00	ppbv	D	10	< 27.5	µg/m³	02/21/2011 7:16 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	02/21/2011 11:37 PM
Carbon tetrachloride	< 1.60	ppbv	D	10	< 10.1	µg/m³	02/21/2011 7:16 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V71

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-003**
Client Sample ID: IA1 DUP

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 5:05:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	02/21/2011 11:37 PM
Bromodichloromethane	< 8.00	ppbv	D	10	< 53.6	µg/m³	02/21/2011 7:16 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	02/21/2011 11:37 PM
1,2-Dichloropropane	< 1.60	ppbv	D	10	< 7.39	µg/m³	02/21/2011 7:16 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 11:37 PM
1,4-Dioxane	< 8.00	ppbv	D	10	< 28.8	µg/m³	02/21/2011 7:16 PM
2,2,4-Trimethylpentane	1.05	ppbv		1	4.91	µg/m³	02/21/2011 11:37 PM
2,2,4-Trimethylpentane	< 8.00	ppbv	D	10	< 37.4	µg/m³	02/21/2011 7:16 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 11:37 PM
1,3-Dichloropropene (cis)	< 1.60	ppbv	D	10	< 7.26	µg/m³	02/21/2011 7:16 PM
Trichloroethene	< 0.160	ppbv		1	< 0.860	µg/m³	02/21/2011 11:37 PM
Trichloroethene	< 1.60	ppbv	D	10	< 8.60	µg/m³	02/21/2011 7:16 PM
Benzene	0.420	ppbv		1	1.34	µg/m³	02/21/2011 11:37 PM
Benzene	< 1.60	ppbv	D	10	< 5.11	µg/m³	02/21/2011 7:16 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.81	µg/m³	02/21/2011 11:37 PM
Dibromochloromethane	< 8.00	ppbv	D	10	< 68.1	µg/m³	02/21/2011 7:16 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 11:37 PM
1,3-Dichloropropene (trans)	< 1.60	ppbv	D	10	< 7.26	µg/m³	02/21/2011 7:16 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 11:37 PM
1,1,2-Trichloroethane	< 1.60	ppbv	D	10	< 8.73	µg/m³	02/21/2011 7:16 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	02/21/2011 11:37 PM
Bromoform	< 8.00	ppbv	D	10	< 82.7	µg/m³	02/21/2011 7:16 PM
n-Heptane	0.410	ppbv	J	1	1.68	µg/m³	02/21/2011 11:37 PM
n-Heptane	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 7:16 PM
Methyl isobutyl ketone	0.690	ppbv	J	1	2.83	µg/m³	02/21/2011 11:37 PM
Methyl isobutyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 7:16 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 11:37 PM
Methyl butyl ketone	< 8.00	ppbv	D	10	< 32.8	µg/m³	02/21/2011 7:16 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 11:37 PM
1,2-Dibromoethane	< 1.60	ppbv	D	10	< 12.3	µg/m³	02/21/2011 7:16 PM
Tetrachloroethene	0.330	ppbv	J	1	2.24	µg/m³	02/21/2011 11:37 PM
Tetrachloroethene	< 1.60	ppbv	D	10	< 10.9	µg/m³	02/21/2011 7:16 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V72

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-003**
Client Sample ID: IA1 DUP

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 5:05:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	02/21/2011 11:37 PM
1,1,2,2-Tetrachloroethane	< 1.60	ppbv	D	10	< 11.0	µg/m³	02/21/2011 7:16 PM
Toluene	12.0	ppbv		1	45.2	µg/m³	02/21/2011 11:37 PM
Toluene	7.90	ppbv	D	10	29.8	µg/m³	02/21/2011 7:16 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	02/21/2011 11:37 PM
Chlorobenzene	< 1.60	ppbv	D	10	< 7.37	µg/m³	02/21/2011 7:16 PM
Ethylbenzene	0.900	ppbv		1	3.91	µg/m³	02/21/2011 11:37 PM
Ethylbenzene	< 1.60	ppbv	D	10	< 6.95	µg/m³	02/21/2011 7:16 PM
Styrene	0.240	ppbv		1	1.02	µg/m³	02/21/2011 11:37 PM
Styrene	< 1.60	ppbv	D	10	< 6.82	µg/m³	02/21/2011 7:16 PM
Xylenes (m&p)	3.35	ppbv		1	14.6	µg/m³	02/21/2011 11:37 PM
Xylenes (m&p)	2.00	ppbv	D	10	8.69	µg/m³	02/21/2011 7:16 PM
Xylenes (o)	1.19	ppbv		1	5.17	µg/m³	02/21/2011 11:37 PM
Xylenes (o)	< 1.60	ppbv	D	10	< 6.95	µg/m³	02/21/2011 7:16 PM
4-Ethyltoluene	0.520	ppbv	J	1	2.56	µg/m³	02/21/2011 11:37 PM
4-Ethyltoluene	< 8.00	ppbv	D	10	< 39.3	µg/m³	02/21/2011 7:16 PM
1,3,5-Trimethylbenzene	0.670	ppbv	J	1	3.29	µg/m³	02/21/2011 11:37 PM
1,3,5-Trimethylbenzene	< 1.60	ppbv	D	10	< 7.87	µg/m³	02/21/2011 7:16 PM
1,2,4-Trimethylbenzene	2.04	ppbv	J	1	10.0	µg/m³	02/21/2011 11:37 PM
1,2,4-Trimethylbenzene	1.60	ppbv	D	10	7.87	µg/m³	02/21/2011 7:16 PM
1,2,3-Trimethylbenzene	0.530	ppbv	J	1	2.61	µg/m³	02/21/2011 11:37 PM
1,2,3-Trimethylbenzene	< 8.00	ppbv	D	10	< 39.3	µg/m³	02/21/2011 7:16 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 11:37 PM
1,3-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 7:16 PM
1,4-Dichlorobenzene	0.250	ppbv		1	1.50	µg/m³	02/21/2011 11:37 PM
1,4-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 7:16 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 11:37 PM
1,2-Dichlorobenzene	< 1.60	ppbv	D	10	< 9.62	µg/m³	02/21/2011 7:16 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	02/21/2011 11:37 PM
Benzyl chloride	< 1.60	ppbv	D	10	< 8.28	µg/m³	02/21/2011 7:16 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	02/21/2011 11:37 PM
1,3-Hexachlorobutadiene	< 8.00	ppbv	D	10	< 85.3	µg/m³	02/21/2011 7:16 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V73

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-003**
Client Sample ID:IA1 DUP

Sample Information...
Type : Air

Origin:

Collected :2/12/2011 5:05:00 PM
Received :2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,2,4-Trichlorobenzene	< 0.800	ppbv	UJ	1	< 5.94	µg/m³	02/21/2011 11:37 PM
1,2,4-Trichlorobenzene	< 8.00	ppbv	D	10	< 59.4	µg/m³	02/21/2011 7:16 PM
Indan	0.310	ppbv	J	1	1.50	µg/m³	02/21/2011 11:37 PM
Indan	< 8.00	ppbv	D	10	< 38.7	µg/m³	02/21/2011 7:16 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	02/21/2011 11:37 PM
Indene	< 8.00	ppbv	D	10	< 38.0	µg/m³	02/21/2011 7:16 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv	UJ	1	< 4.39	µg/m³	02/21/2011 11:37 PM
1,2,4,5-Tetramethylbenzene	< 8.00	ppbv	D	10	< 43.9	µg/m³	02/21/2011 7:16 PM
Naphthalene	< 0.800	ppbv	UJ	1	< 4.19	µg/m³	02/21/2011 11:37 PM
Naphthalene	< 8.00	ppbv	D	10	< 41.9	µg/m³	02/21/2011 7:16 PM
2-Methylnaphthalene	< 0.800	ppbv	UJ	1	< 4.65	µg/m³	02/21/2011 11:37 PM
2-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	02/21/2011 7:16 PM
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	02/21/2011 11:37 PM
1-Methylnaphthalene	< 8.00	ppbv	D	10	< 46.5	µg/m³	02/21/2011 7:16 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V74

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-004**
Client Sample ID: SSI

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 5:30:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
2,3-Dimethylpentane	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 8:08 PM
2-Methylpentane	< 0.800	ppbv		1	< 2.82	µg/m³	02/21/2011 8:08 PM
Freon-114	< 0.160	ppbv		1	< 1.12	µg/m³	02/21/2011 8:08 PM
Isopentane	< 0.800	ppbv		1	< 2.36	µg/m³	02/21/2011 8:08 PM
Propylene	< 2.00	ppbv	UJ	1	< 3.44	µg/m³	02/21/2011 8:08 PM
Dichlorodifluoromethane	3.57	ppbv		1	17.7	µg/m³	02/21/2011 8:08 PM
Chloromethane	< 0.160	ppbv		1	< 0.330	µg/m³	02/21/2011 8:08 PM
1,3-Butadiene	< 0.800	ppbv		1	< 1.77	µg/m³	02/21/2011 8:08 PM
Bromomethane	< 0.160	ppbv		1	< 0.622	µg/m³	02/21/2011 8:08 PM
Vinyl chloride	< 0.160	ppbv		1	< 0.409	µg/m³	02/21/2011 8:08 PM
Chloroethane	< 0.160	ppbv		1	< 0.422	µg/m³	02/21/2011 8:08 PM
Ethanol	3.89	ppbv		1	7.33	µg/m³	02/21/2011 8:08 PM
Isopropanol	0.600	ppbv	J	1	1.47	µg/m³	02/21/2011 8:08 PM
Methylene chloride	1.47	ppbv	J B	1	5.71	µg/m³	02/21/2011 8:08 PM
Acetone	1.77	ppbv	J	1	4.20	µg/m³	02/21/2011 8:08 PM
Carbon disulfide	0.330	ppbv	J	1	1.03	µg/m³	02/21/2011 8:08 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	0.200	ppbv	J	1	1.53	µg/m³	02/21/2011 8:08 PM
1,1-Dichloroethene	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 8:08 PM
1,1-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 8:08 PM
Trichlorofluoromethane	4.05	ppbv		1	22.8	µg/m³	02/21/2011 8:08 PM
n-Hexane	< 0.800	ppbv		1	< 2.82	µg/m³	02/21/2011 8:08 PM
Methyl tert-butyl ether	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 8:08 PM
1,2-Dichloroethene (trans)	< 0.800	ppbv		1	< 3.17	µg/m³	02/21/2011 8:08 PM
1,2-Dichloroethene (cis)	< 0.160	ppbv		1	< 0.634	µg/m³	02/21/2011 8:08 PM
Tetrahydrofuran	< 0.800	ppbv		1	< 2.36	µg/m³	02/21/2011 8:08 PM
Methyl ethyl ketone	0.160	ppbv	J	1	0.472	µg/m³	02/21/2011 8:08 PM
Chloroform	1.03	ppbv	J	1	5.03	µg/m³	02/21/2011 8:08 PM
1,2-Dichloroethane	< 0.160	ppbv		1	< 0.648	µg/m³	02/21/2011 8:08 PM
1,1,1-Trichloroethane	0.510	ppbv		1	2.78	µg/m³	02/21/2011 8:08 PM
Cyclohexane	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 8:08 PM
Thiophene	< 0.800	ppbv		1	< 2.75	µg/m³	02/21/2011 8:08 PM
Carbon tetrachloride	< 0.160	ppbv		1	< 1.01	µg/m³	02/21/2011 8:08 PM

JV 2/28/11

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V18

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-004**
Client Sample ID: SSI

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 5:30:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
Bromodichloromethane	< 0.800	ppbv		1	< 5.36	µg/m³	02/21/2011 8:08 PM
1,2-Dichloropropane	< 0.160	ppbv		1	< 0.739	µg/m³	02/21/2011 8:08 PM
1,4-Dioxane	< 0.800	ppbv		1	< 2.88	µg/m³	02/21/2011 8:08 PM
2,2,4-Trimethylpentane	0.540	ppbv	J	1	2.52	µg/m³	02/21/2011 8:08 PM
1,3-Dichloropropene (cis)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 8:08 PM
Trichloroethene	0.750	ppbv		1	4.03	µg/m³	02/21/2011 8:08 PM
Benzene	< 0.160	ppbv		1	< 0.511	µg/m³	02/21/2011 8:08 PM
Dibromochloromethane	< 0.800	ppbv		1	< 6.81	µg/m³	02/21/2011 8:08 PM
1,3-Dichloropropene (trans)	< 0.160	ppbv		1	< 0.726	µg/m³	02/21/2011 8:08 PM
1,1,2-Trichloroethane	< 0.160	ppbv		1	< 0.873	µg/m³	02/21/2011 8:08 PM
Bromoform	< 0.800	ppbv		1	< 8.27	µg/m³	02/21/2011 8:08 PM
n-Heptane	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 8:08 PM
Methyl isobutyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 8:08 PM
Methyl butyl ketone	< 0.800	ppbv		1	< 3.28	µg/m³	02/21/2011 8:08 PM
1,2-Dibromoethane	< 0.160	ppbv		1	< 1.23	µg/m³	02/21/2011 8:08 PM
Tetrachloroethene	6.43	ppbv		1	43.6	µg/m³	02/21/2011 8:08 PM
1,1,2,2-Tetrachloroethane	< 0.160	ppbv		1	< 1.10	µg/m³	02/21/2011 8:08 PM
Toluene	0.200	ppbv		1	0.753	µg/m³	02/21/2011 8:08 PM
Chlorobenzene	< 0.160	ppbv		1	< 0.737	µg/m³	02/21/2011 8:08 PM
Ethylbenzene	< 0.160	ppbv		1	< 0.695	µg/m³	02/21/2011 8:08 PM
Styrene	< 0.160	ppbv		1	< 0.682	µg/m³	02/21/2011 8:08 PM
Xylenes (m&p)	< 0.160	ppbv		1	< 0.695	µg/m³	02/21/2011 8:08 PM
Xylenes (o)	< 0.160	ppbv		1	< 0.695	µg/m³	02/21/2011 8:08 PM
4-Ethyltoluene	< 0.800	ppbv		1	< 3.93	µg/m³	02/21/2011 8:08 PM
1,3,5-Trimethylbenzene	< 0.160	ppbv		1	< 0.787	µg/m³	02/21/2011 8:08 PM
1,2,4-Trimethylbenzene	< 0.160	ppbv		1	< 0.787	µg/m³	02/21/2011 8:08 PM
1,2,3-Trimethylbenzene	< 0.800	ppbv		1	< 3.93	µg/m³	02/21/2011 8:08 PM
1,3-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 8:08 PM
1,4-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 8:08 PM
1,2-Dichlorobenzene	< 0.160	ppbv		1	< 0.962	µg/m³	02/21/2011 8:08 PM
Benzyl chloride	< 0.160	ppbv		1	< 0.828	µg/m³	02/21/2011 8:08 PM
1,3-Hexachlorobutadiene	< 0.800	ppbv		1	< 8.53	µg/m³	02/21/2011 8:08 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V19

H 2 M labs
575 Broad Hollow Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436 NYSDOH ID#10478

LABORATORY RESULTS

For the submitted sample

AECOM
1 World Financial Center
New York, New York 10281
Attn To : Jennifer Pfeiffer

Lab No. : **1102485-004**
Client Sample ID: SSI

Sample Information...
Type : Air

Origin:

Collected : 2/12/2011 5:30:00 PM
Received : 2/15/2011 10:00:00 AM
Collected By JL99
Copies To :
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed	Prep Date

Method: ETO-15

Parameter(s)	Result (ppbv)	Units	Qualifier	D.F.	Result (µg/m³)	Units	Date Analyzed
1,2,4-Trichlorobenzene	< 0.800	ppbv	UJ	1	< 5.94	µg/m³	02/21/2011 8:08 PM
Indan	< 0.800	ppbv		1	< 3.87	µg/m³	02/21/2011 8:08 PM
Indene	< 0.800	ppbv		1	< 3.80	µg/m³	02/21/2011 8:08 PM
1,2,4,5-Tetramethylbenzene	< 0.800	ppbv	UJ	1	< 4.39	µg/m³	02/21/2011 8:08 PM
Naphthalene	< 0.800	ppbv	UJ	1	< 4.19	µg/m³	02/21/2011 8:08 PM
2-Methylnaphthalene	< 0.800	ppbv	UJ	1	< 4.65	µg/m³	02/21/2011 8:08 PM
1-Methylnaphthalene	< 0.800	ppbv		1	< 4.65	µg/m³	02/21/2011 8:08 PM

Qualifiers:

D - Results for Dilution
D.F. = Dilution Factor
H = Sample recieved/analyzed outside of analytical holding ti

Joann M. Slavin
Laboratory Manager

Date Reported : 2/28/2011

AECOM126 V20

Form 1

CLIENT SAMPLE NO.

SSI

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: AECOM SAS No.: _____ SDG No.: AECOM126

Matrix: (soil/water) Air Lab Sample ID: 1102485-004A

Sample wt/vol: (g/mL) ML Lab File ID: B00027.raw

Level: (low/med) LOW Date Received: 2/15/2011

GC Column: RT-Msieve5A ID: .53 (mm) Date Analyzed: 2/23/2011

Dilution Factor: 1.50

Inj. Vol.: 1500 uL SB 2/23/11

CONCENTRATION UNITS:

CAS NO.	COMPOUND	%	Q
	Helium	0.01	U

FORM I VOA NA

AECOM126 HE9

Appendix C

Support Documentation

H2M LABS, INC.

575 Broad Hollow Rd., Melville, NY 11747
Tel: (631) 694-3040 Fax:(631) 420-8436

0367

AIR CANISTER CHAIN OF CUSTODY

Client Contact Information	Project Manager: Pete Cox	CLIENT: AECOM	H2M SDG NO.: AECOM 126
Company: AECOM	Phone: 1-978-764-4257	Samplers Name(s) Jesse Lloyd	gauge returned 2/15/11 [illegible]
Address: 200 Liberty St	Site Contact: Jen Pfeiffer	Note* - All samples will be analyzed for National Grids additional MGP Indicator Compounds	
City/State/Zip One World Financial Center	Office - 212-798-8549		
~~Phone:~~ Manhattan, NY 10281	Cell - 914-227-3779		
FAX:			
Project Name: Equity MGP Site	Analysis Turnaround Time		
~~Site~~ ~~Ar~~ location - Brooklyn, NY	Standard (Specify) Standard TAT		
PO #	Rush (Specify)		

Sample Identification	Date Collected	Time Collected	Temp. (F)	Canister Pressure FIELD Initial("Hg) (Start)	FIELD ("Hg) / PSI (Stop)	LAB Outgoing ("Hg) (Lab)	LAB Incoming ("Hg) (Lab)	Flow Controller ID	Canister ID	Can Size (L)	LAB ID No.	Analysis: TO-15	Analysis: OTHER - Nat. Grid ind. Comp.	Analysis: Helium		Matrix: Indoor / Ambient Air	Matrix: Soil Gas	Matrix: Source Level	Matrix: Helium
IA1 Dup	2-12-11	0920 / 1705	62	-30	-5.5		-5.5	02123	1622	6	1102485 003	X	X			X			
SS1	↓	0920 / 1730	↓	-31	-4.0		-4.0	00908	3406	6	004	X	X	X			X		
IA1	↓	0920 / 1632	↓	-30	-4.0		-4.0	01023	3404	6	002	X	X			X			
Amb1	↓	0912 / 1549	↓	-27	-3.0		-3.0	01028	3395	6	001	X	X			X			

Pressure	Ambient	Maximum	Minimum	Temperature (Fahrenheit)	Ambient	Maximum	Minimum
Start				Start			
Stop				Stop			

Special Instructions/QC Requirements & Comments: Note - cap on can #3406 (SS1) did not fit on snug, it is very loose.

Samples Relinquished by: [signature]	Date/Time: 2-13-11 / 1100	Received by: [signature]	Date/Time: 2/15/11 10:00
Relinquished by:	Date/Time:	Received by:	Date/Time:

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

* Notify lab if equipment is damaged upon receipt. Client is responsible for damage to equipement

AECOM126 A6

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

AECOM 126

Sample Receipt Checklist

Client Name: AECOM

Date and Time Received: 2/15/2011 10:00:00 AM

Work Order Number 1102485 RcptNo: 1

Received by: Tamika Ricks

Completed by: [signature]

Completed Date: 2/15/11

Reviewed by: JA

Reviewed Date: 2/16/11

Carrier name: FedEx

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Present ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container labels complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☑	No ☐	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To °
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials ☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water ☑
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present ☐
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: SDG: AECOM126 SAS:

Adjusted? _____ Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

AECOM126 A7

H2M labs

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
TEL: 631-694-3040 FAX: 631-420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Contacted?	☐ Yes	☑ No	Person Contacted:		Comments:
Contact Mode:	☐ Phone:	☐ Fax:	☐ Email:	☐ In Person:	
Client Instructions:					
Date Contacted:			Contacted By:		
Regarding:					
CorrectiveAction:					

AECOM126 A8

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE(S) RECEIVED: 2/15/11
SDG #: AECOM126

For Sample(s):

AMB 1
IA1
IA1 DUP
SSI

The above air sample(s) was/were analyzed for a select list of volatile organic analytes by EPA method TO-15.

All QC data and calibrations met the requirements of the method, unless discussed below, and no problems were encountered with sample analysis.

No matrix spike/matrix spike duplicate was submitted. A lab fortified blank analyzed. All percent recoveries were within QC limits except for a 134% recovery for 1,1,2-trichloro-1,2,2 trifluoroethane; a 132% recovery for chloroform, a 135 % recovery for 1,2-dichloroethane and a 141% recovery for bromoform (upper limit 130%).

1,2,4 trichlorobenzene, napthalene and 2-methylnapthalene had %RSD's greater than 30%. These analytes were not present in any samples.

Methylene chloride, acetone, ethanol, isopropanol and propylene PQL's were elevated to 2.0 ppbv due to elevated response at the 0.16 ppbv concentration level. These analytes were reported with a "J" qualifier if present less than 2.0 ppbv.

The 40ppbv calibration level in the initial calibration exhibited quenching for 2-methylnapthalene and 1-methylnapthalene. This calibration level was not included.

Samples IA1 and IA1 DUP were reanalyzed at dilutions to keep the concentration of targeted analytes within the calibration range. Both sets of data are reported

Methylene chloride was present in the method blank on 2/21/11. This analyte was flagged with the "B" qualifier in the samples associated with this blank.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 2011

****
* *
* *
****
Joann M. Slavin
Senior Vice President

AECOM126 A3

H2M LABS, INC.

SDG NARRATIVE FOR HELIUM ANALYSES
SAMPLE(S) RECEIVED: 2/15/11
SDG #: AECOM126

For Sample(s):

SSI

The above sample(s) were was/were analyzed for helium by GC-TCD with nitrogen as carrier gas according to method ASTM-D1945-03.

The sample was collected in a canister for TO-15 analysis. The canister was pressurized, which resulted in a 1:1.5 "dilution".

No matrix spike/matrix spike duplicate was analyzed. Results for a lab fortified blank indicate good method efficiency.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 2011

****
* *
* *
****
Joann M. Slavin
Senior Vice President

AECOM126 A4

H2M LABS, INC.

GC/MS AIR RUN LOG (TO-14/TO-15)

Instrument ID:H5973I Column: RTX-1

Date(s) of analyses: 2-18-11, 2-19-11
SDG. No.:
Initial Calib.Date: 2/18/11
Injection Volume: 400ml

Analyst Name: Signature:
Supervisor Name: Signature
Target directory :o\ms\h5973i\data

Run#	Lab ID	Client ID	INJ Time	vol. (ml)	Can S/N	Vac. ("Hg)	press. (psia)	Dil. F.	Prep Batch	Seq.Name/ Batch	Q.C CK.	Method/Comments	Analyst Initials	
I7055	VSTD002	CAL048	1223	40 ~~386~~	386								JV	
56	VSTD 0.16	CAL048A	1501	32	3812									
57	VSTD 0.16	↓	1551	32	↓							extra M2-M3 2Min		
I7058	SD Ng BFB	ISTD021	1711	100	1031									
59	VSTD010	*CAL048	1803	~~400~~ 2	386									2-1
60	VSTD020		1854	400								High Naph, 2Mi Naph		
61	VSTD040	*	2029	800										
62	VSTD005	*	2120	100								* AECOM021801015		
63	VSTD002	*	2212	40										
64	VSTD020	* ↓	2304	400	↓									
65	VSTD 0.16	*CAL048A	1046	32	3812									
66	VSTD005	* CAL048	1229	100	386									
I7067	SD Ng BFB	ISTD021	1650	100	1031									
68	VSTD010	CAL048	1835	20	386							AECOM021801		2-1
69	VSTD010	CAL048B	2057	40	↓							2. Late Compounds out		1
70	VBLK021911		2148	400	3430									2
71	VBLK021911		2239	↓	↓									2
72	1102485-001A	AMB1	2331	40	3395	-30			AECOM126					4

H2M LABS, INC.

GC/MS AIR RUN LOG (TO-14/TO-15)

Instrument ID:H5973I Column: RTX-1

Date(s) of analyses: 2-20-11 , 2-21-11
SDG. No.: AECOM126
Initial Calib.Date: 2/18/11
Injection Volume: 400ml

Analyst Name: _____ Signature: _____
Supervisor Name: _____ Signature _____
Target directory :o\ms\h5973i\data

Run#	Lab ID	Client ID	INJ Time	vol. (ml)	Can S/N	Vac. ("Hg)	press. (psia)	Dil. F.	Prep Batch	Seq.Name/ Batch	Q.C CK.	Method/Comments	Analyst Initials	
I7073	1102485-002A	TA1	0022	400	3404	-4			AECOM126				JV	2-5
74	-003A	IAI DUP	0113	400	1622	-5.5								6
75	-004A	DL SS1	0205	40	3406	-4.0		1:10						7
76	-004A	SS1	0256	400	3406									7
77	-002A	DL IAI	1012	40	3404			1:10						5
78	-003A	DL IAI DUP	~~1103~~ 1257	40	1622			1:10						6
79	LFB022011	QC 023	1257	200	3816									1
80	BLK		1509									No Can		
I7081	SD NG BFB		1128	100	1031									
I7082	~~VSTD~~ SD NG	BFB	1220	100	1031						✓			
83	VSTD010	CALOH8B	1317	400	386						✓	AECOM021810L5		2-1
84	VBHK022111		1449	400	3430						✓			2
85	LFB022111	QC 023	1633	200	3816						✓			1
86	1102H85-002A	DL IAI	1824	80	3404			1:5	AECOM	126		Dilute		5
87	-003A	DL IAI DUP	1916	40	1622			1:10			✓			6
88	-004A	SS1	2008	400	3406						✓			7
89	-001A	AMB1	2100	400	3395						✓			4
90	-002A	DL IAI	2153	40	3404			1:10			✓			5

(1) JV 2/22

H2M LABS, INC.

GC/MS AIR RUN LOG (TO-14/TO-15)

Instrument ID:H5973I Column: RTX-1

Date(s) of analyses: 2-21-11
SDG. No.: AECOM126
Initial Calib.Date: 2/18/11
Injection Volume: 400ml

Analyst Name: _____ Signature: _____
Supervisor Name: _____ Signature _____
Target directory :o\ms\h5973i\data

Run#	Lab ID	Client ID	INJ Time	vol. (ml)	Can S/N	Vac. ("Hg)	press. (psia)	Dil. F.	Prep Batch	Seq.Name/ Batch	Q.C CK.	Method/Comments	Analyst Initials	
I7091	1102H85-002A	~~HO~~ 1AI	2245	400	3404						✓	Dilute 5	JV	5
92	1 -003A	1AI DUP	2337	400	1622						✓	Dilute		6
93	CAN1616		1003	400										
94	CAN132		1055	1										
95	CAN2121		1147	1										

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK022111

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: AECOM SAS No.: _____ SDG No.: AECOM126

Matrix: (soil/water) AIR Lab Sample ID: VBLK022111

Sample wt/vol: 400 (g/mL) ML Lab File ID: 11\I7084.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/21/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
565-59-3	2,3-Dimethylpentane	0.8	U
107-83-5	2-Methylpentane	0.8	U
76-14-2	Freon-114	0.2	U
78-78-4	Isopentane	0.8	U
115-07-1	Propylene	2	U
75-71-8	Dichlorodifluoromethane	0.2	U
74-87-3	Chloromethane	0.2	U
106-99-0	1,3-Butadiene	0.8	U
74-83-9	Bromomethane	0.2	U
75-01-4	Vinyl chloride	0.2	U
75-00-3	Chloroethane	0.2	U
64-17-5	Ethanol	2	U
67-63-0	Isopropanol	2	U
75-09-2	Methylene chloride	0.2	J
67-64-1	Acetone	2	U
75-15-0	Carbon disulfide	0.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.2	U
75-35-4	1,1-Dichloroethene	0.2	U
75-34-3	1,1-Dichloroethane	0.2	U
75-69-4	Trichlorofluoromethane	0.2	U
110-54-3	n-Hexane	0.8	U
1634-04-4	Methyl tert-butyl ether	0.8	U
156-60-5	1,2-Dichloroethene (trans)	0.8	U
156-59-2	1,2-Dichloroethene (cis)	0.2	U
109-99-9	Tetrahydrofuran	0.8	U
78-93-3	Methyl ethyl ketone	0.8	U
67-66-3	Chloroform	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-55-6	1,1,1-Trichloroethane	0.2	U
110-82-7	Cyclohexane	0.8	U
110-02-1	Thiophene	0.8	U
56-23-5	Carbon tetrachloride	0.2	U
75-27-4	Bromodichloromethane	0.8	U
78-87-5	1,2-Dichloropropane	0.2	U
123-91-1	1,4-Dioxane	0.8	U

AECOM126 V131

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK022111

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: AECOM SAS No.: _____ SDG No.: AECOM126

Matrix: (soil/water) AIR Lab Sample ID: VBLK022111

Sample wt/vol: 400 (g/mL) ML Lab File ID: 11\I7084.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/21/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
540-84-1	2,2,4-Trimethylpentane	0.8	U
10061-01-5	1,3-Dichloropropene (cis)	0.2	U
79-01-6	Trichloroethene	0.2	U
71-43-2	Benzene	0.2	U
124-48-1	Dibromochloromethane	0.8	U
10061-02-6	1,3-Dichloropropene (trans)	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
75-25-2	Bromoform	0.8	U
142-82-5	n-Heptane	0.8	U
108-10-1	Methyl isobutyl ketone	0.8	U
591-78-6	Methyl butyl ketone	0.8	U
106-93-4	1,2-Dibromoethane	0.2	U
127-18-4	Tetrachloroethene	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
108-88-3	Toluene	0.2	U
108-90-7	Chlorobenzene	0.2	U
100-41-4	Ethylbenzene	0.2	U
100-42-5	Styrene	0.2	U
108-38-3/106-42-3	Xylenes (m&p)	0.2	U
95-47-6	Xylenes (o)	0.2	U
622-96-8	4-Ethyltoluene	0.8	U
108-67-8	1,3,5-Trimethylbenzene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	0.2	U
526-73-8	1,2,3-Trimethylbenzene	0.8	U
541-73-1	1,3-Dichlorobenzene	0.2	U
106-46-7	1,4-Dichlorobenzene	0.2	U
95-50-1	1,2-Dichlorobenzene	0.2	U
100-44-7	Benzyl chloride	0.2	U
87-68-3	1,3-Hexachlorobutadiene	0.8	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U

AECOM126 V132

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK022111

Lab Name: H2M LABS INC Contract: _____

Lab Code: H2M Case No.: AECOM SAS No.: _____ SDG No.: AECOM126

Matrix: (soil/water) AIR Lab Sample ID: VBLK022111

Sample wt/vol: 400 (g/mL) ML Lab File ID: 11\I7084.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 02/21/11

GC Column: Rxi-1MS ID: .32 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) ppbv	Q
496-11-7	Indan	0.8	U
95-13-6	Indene	0.8	U
95-93-2	1,2,4,5-Tetramethylbenzene	0.8	U
91-20-3	Naphthalene	0.8	U
91-57-6	2-Methylnaphthalene	0.8	U
90-12-0	1-Methylnaphthalene	0.8	U

AECOM126 V133

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS INC Contract:

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Sample ID LFB022111 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 02/21/11 16:33

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ppbv)	SPIKE CONCENTRATION (ppbv)	SPIKE % REC #	QC. LIMITS REC.
2,3-Dimethylpentane	10	0	11.3	113	70-130
2-Methylpentane	10	0	12.1	121	70-130
Freon-114	10	0	11	110	70-130
Isopentane	10	0	9.42	94	70-130
Propylene	10	0	11.1	111	70-130
Dichlorodifluoromethane	10	0	12	120	70-130
Chloromethane	10	0	10.3	103	70-130
1,3-Butadiene	10	0	10.7	107	70-130
Bromomethane	10	0	10.8	108	70-130
Vinyl chloride	10	0	10.2	102	70-130
Chloroethane	10	0	10.5	105	70-130
Ethanol	10	0	11.4	114	70-130
Isopropanol	10	0	12.2	122	70-130
Methylene chloride	10	0	12.2	122	70-130
Acetone	10	0	11	110	70-130
Carbon disulfide	10	0	11.9	119	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	10	0	13.4	134*	70-130
1,1-Dichloroethene	10	0	11.4	114	70-130
1,1-Dichloroethane	10	0	12.3	123	70-130
Trichlorofluoromethane	10	0	12.2	122	70-130
n-Hexane	10	0	13	130	70-130
Methyl tert-butyl ether	10	0	11.4	114	70-130
1,2-Dichloroethene (trans)	10	0	11.8	118	70-130
1,2-Dichloroethene (cis)	10	0	12.5	125	70-130
Tetrahydrofuran	10	0	11.5	115	70-130
Methyl ethyl ketone	10	0	11.1	111	70-130
Chloroform	10	0	13.2	132*	70-130
1,2-Dichloroethane	10	0	13.5	135*	70-130
1,1,1-Trichloroethane	10	0	11.8	118	70-130
Cyclohexane	10	0	12.1	121	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 71 outside limits

COMMENTS:

AECOM126 V4

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS INC Contract:

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Sample ID LFB022111 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 02/21/11 16:33

Thiophene	10	0	11.4	114	70-130
Carbon tetrachloride	10	0	12.7	127	70-130
Bromodichloromethane	10	0	11.8	118	70-130
1,2-Dichloropropane	10	0	11.7	117	70-130
1,4-Dioxane	10	0	11	110	70-130
2,2,4-Trimethylpentane	10	0	11.8	118	70-130
1,3-Dichloropropene (cis)	10	0	12.3	123	70-130
Trichloroethene	10	0	11.9	119	70-130
Benzene	10	0	11.3	113	70-130
Dibromochloromethane	10	0	12.7	127	70-130
1,3-Dichloropropene (trans)	10	0	12.8	128	70-130
1,1,2-Trichloroethane	10	0	12.1	121	70-130
Bromoform	10	0	14.1	141*	70-130
n-Heptane	10	0	10.9	109	70-130
Methyl isobutyl ketone	10	0	11	110	70-130
Methyl butyl ketone	10	0	11.4	114	70-130
1,2-Dibromoethane	10	0	11.6	116	70-130
Tetrachloroethene	10	0	11.2	112	70-130
1,1,2,2-Tetrachloroethane	10	0	11.6	116	70-130
Toluene	10	0	11.8	118	70-130
Chlorobenzene	10	0	11.7	117	70-130
Ethylbenzene	10	0	12.2	122	70-130
Styrene	10	0	12.9	129	70-130
Xylenes (m&p)	20	0	24.7	123	70-130
Xylenes (o)	10	0	12.6	126	70-130
4-Ethyltoluene	10	0	12.9	129	70-130
1,3,5-Trimethylbenzene	10	0	12.4	124	70-130
1,2,4-Trimethylbenzene	10	0	12.6	126	70-130
1,2,3-Trimethylbenzene	10	0	11.8	118	70-130
1,3-Dichlorobenzene	10	0	13	130	70-130
1,4-Dichlorobenzene	10	0	12.7	127	70-130
1,2-Dichlorobenzene	10	0	12.2	122	70-130
Benzyl chloride	10	0	12	120	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 71 outside limits

COMMENTS:

AECOM126 V5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS INC Contract:

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Sample ID LFB022111 Level: (low/med) LOW

Column ID Rxi-1MS Column Diam .32

Inst. ID HP5973I

Analysis Date: 02/21/11 16:33

1,3-Hexachlorobutadiene	10	0	11.3	113	70-130
1,2,4-Trichlorobenzene	10	0	10.2	102	70-130
Indan	10	0	11.8	118	70-130
Indene	10	0	11.3	113	70-130
1,2,4,5-Tetramethylbenzene	10	0	11.4	114	70-130
Naphthalene	10	0	9.44	94	70-130
2-Methylnaphthalene	10	0	10.6	106	70-130
1-Methylnaphthalene	10	0	10.5	105	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 4 out of 71 outside limits

COMMENTS:

AECOM126 V6

Form 6

VOCS IN AIR INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: H2M LABS INC

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Instrument ID: HP5973I Calibration Dates: 2/18/2011 2/19/2011

Heated Purge: (Y/N) N Calibration Times: 18:03 12:29

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: TD0.16= I7065.D STD002= I7063.D STD005= I7066.D STD010= I7059.D STD020= I7064.D
STD040= I7061.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					RRF	% RSD	R^2	
2,3-Dimethylpentane	*	0.4805229	0.6153549	0.3991426	0.4262716	0.4850674	0.3992308					0.468	17.5	*	
2-Methylpentane	*	1.0294148	1.5002139	1.0213997	1.2429056	1.2246638	1.0957721					1.186	15.2	*	
Freon-114	*	6.1187101	6.5932568	4.2659458	4.9527759	4.7168963	4.2121299					5.143	19.3	*	
Isopentane	*	0.6918308	0.7131190	0.4388748	0.499334	0.5229496	0.498575					0.561	20.2	*	
Propylene	*	∅	1.2017298	0.7091459	0.8508938	0.8400431	0.826533					0.886	21.0	*	
Dichlorodifluoromethane	*	7.5415401	7.4950083	4.9672124	5.8535536	5.4004844	4.7350427					5.999	20.6	*	
1,2-Dichlorotetrafluoroethane	*	6.1187101	6.5932568	4.2659458	4.9527759	4.7168963	4.2121299					5.143	19.3	*	
Chloromethane	*	1.4412240	1.453319	0.9143332	1.0540521	1.0210942	0.9505859					1.139	21.4	*	
1,3-Butadiene	*	1.3847436	1.3923657	0.8753223	1.0523848	0.9950112	0.9276099					1.105	20.6	*	
Bromomethane	*	1.7270884	1.9375662	1.1872585	1.4142446	1.3787886	1.26467					1.485	19.4	*	
Vinyl chloride	*	1.8283636	1.9050012	1.1641347	1.3487754	1.322284	1.2420921					1.468	21.5	*	
Chloroethane	*	0.8623540	0.956966	0.5933306	0.6907786	0.6773769	0.6276574					0.735	19.5	*	
Ethanol	*	∅	0.3298097	0.1995160	0.2274278	0.2776906	0.2674838					0.260	19.2	*	
Isopropanol	*	∅	2.1483218	1.2494083	1.4115117	1.6900255	1.4959538					1.599	21.6	*	
Methylene chloride	*	∅	2.1475238	1.3259556	1.4896958	1.5134554	1.4396151					1.583	20.4	*	
Allyl Chloride	*	0.8013292	0.9310057	0.5342508	0.6451873	0.6417979	0.6509818					0.701	20.2	*	
Vinyl bromide	*	1.5470436	1.7255542	1.1028394	1.2749828	1.2900714	1.1996918					1.357	17.2	*	
Acrolein	*	0.6033232	0.4321738	0.3093652	0.3143778	0.4182470	0.3964529					0.412	26.0	*	
Acetone	*	∅	2.2913328	1.7320126	1.7434213	2.1564844	1.9538488					1.975	12.6	*	
Carbon disulfide	*	5.0843181	5.5164727	3.2881168	4.0018176	4.0412217	4.0059042					4.323	19.0	*	
1,1,2-Trichloro-1,2,2-trifluoroethane	*	3.5734133	4.0435943	2.7572158	3.2398848	3.1239519	3.1304995					3.311	13.4	*	
1,1-Dichloroethene	*	1.6158588	1.8222304	1.2304662	1.2559685	1.4341072	1.3254476					1.447	16.0	*	

JMD 3/3/11

AECOM126 V99

Form 6

VOCS IN AIR INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: H2M LABS INC

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Instrument ID: HP5973I Calibration Dates: 2/18/2011 2/19/2011

Heated Purge: (Y/N) N Calibration Times: 18:03 12:29

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: TD0.16= I7065.D STD002= I7063.D STD005= I7066.D STD010= I7059.D STD020= I7064.D
STD040= I7061.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					$\overline{RRF}$	% RSD	R^2
1,1-Dichloroethane	*	2.9140425	3.4595298	2.3637189	2.7562650	2.7047050	2.3582404					2.759	14.8	*
Trichlorofluoromethane	*	6.9908021	7.6878684	5.4372112	6.4828936	5.8705863	4.9892877					6.243	16.1	*
n-Hexane	*	1.4946748	2.1554189	1.4486672	1.7868168	1.8000177	1.6130049					1.716	15.1	*
Vinyl acetate	*	2.3152636	2.6180014	2.092185	2.2064842	2.9103004	2.5776264					2.453	12.4	*
Methyl tert-butyl ether	*	3.7644945	4.2854208	3.4560248	3.5738484	4.6654761	4.1042486					3.975	11.6	*
1,2-Dichloroethene (trans)	*	1.2981836	1.5484672	1.0482816	1.2691131	1.3063942	1.1976237					1.278	12.8	*
1,2-Dichloroethene (cis)	*	1.4111444	1.7607848	1.1781088	1.4239472	1.4652852	1.3163247					1.426	13.6	*
Tetrahydrofuran	*	0.9404744	1.0286158	0.8367348	0.875911	1.1441784	1.0254481					0.975	11.6	*
Methyl ethyl ketone	*	2.7632117	2.2156421	1.6549132	1.8101109	2.3092494	2.0308644					2.131	18.5	*
Chloroform	*	4.1804153	4.9321874	3.4246739	4.1125215	3.9177132	3.3348899					3.984	14.6	*
1,2-Dichloroethane	*	3.0547025	3.5342017	2.5821165	3.1552896	2.9516977	2.4376551					2.953	13.5	*
1,1,1-Trichloroethane	*	1.0086800	1.2013407	0.8174861	0.8465089	0.921194	0.7185297					0.919	18.4	*
Cyclohexane	*	0.3175614	0.4501992	0.295351	0.3176665	0.3677508	0.3067421					0.343	17.0	*
Thiophene	*	0.2695714	0.3557147	0.2363729	0.2491629	0.2808333	0.2285014					0.270	17.2	*
Carbon tetrachloride	*	0.9831506	1.227688	0.8564652	0.9051091	0.9469841	0.7147521					0.939	18.0	*
Bromodichloromethane	*	0.9306684	1.0915609	0.7321476	0.7634452	0.8554378	0.6757536					0.842	18.1	*
1,2-Dichloropropane	*	0.325923	0.3587611	0.2428743	0.2680322	0.3054126	0.2510193					0.292	15.7	*
1,4-Dioxane	*	0.1952069	0.174467	0.1067243	0.1290203	0.1713735	0.1382888					0.153	21.8	*
2,2,4-Trimethylpentane	*	1.2298166	1.6182223	1.0430837	1.0916011	1.2719160	1.0655432					1.220	17.7	*
Methyl methacrylate	*	0.3477609	0.3683355	0.2747749	0.2672888	0.396733	0.3183662					0.329	15.7	*
1,3-Dichloropropene (cis)	*	0.5427009	0.6910204	0.472924	0.5230386	0.6119617	0.493929					0.556	14.7	*
Trichloroethene	*	0.4005988	0.4829622	0.3174478	0.3349486	0.3892114	0.3234525					0.375	16.9	*

Form 6

VOCS IN AIR INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: H2M LABS INC

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Instrument ID: HP5973I Calibration Dates: 2/18/2011 2/19/2011

Heated Purge: (Y/N) N Calibration Times: 18:03 12:29

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: TD0.16= I7065.D STD002= I7063.D STD005= I7066.D STD010= I7059.D STD020= I7064.D
STD040= I7061.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					$\overline{RRF}$	% RSD	R^2
Benzene	*	0.965449	1.0995279	0.7230138	0.7614435	0.8821712	0.7382029					0.862	17.4	*
Dibromochloromethane	*	0.7012592	0.8997842	0.6262713	0.6830573	0.7745847	0.5691533					0.709	16.4	*
1,3-Dichloropropene (trans)	*	0.5723666	0.6777187	0.4901124	0.5525590	0.6386621	0.4961751					0.571	13.2	*
1,1,2-Trichloroethane	*	0.4090493	0.4342932	0.3025311	0.3328919	0.3818895	0.3026817					0.361	15.6	*
Bromoform	*	0.8324201	0.9821462	0.7190976	0.848976	0.9317843	0.5793150					0.816	18.0	*
n-Heptane	*	0.5591461	0.657884	0.4150119	0.4380147	0.5058289	0.483974					0.510	17.4	*
Methyl isobutyl ketone	*	0.7114498	0.7146554	0.4113369	0.5013532	0.5918	0.5372701					0.578	20.8	*
Methyl butyl ketone	*	0.7018030	0.6821937	0.3897392	0.4979763	0.5527827	0.4816941					0.551	22.0	*
1,2-Dibromoethane	*	0.7508758	0.8283279	0.5615356	0.6026499	0.7116079	0.6165546					0.679	15.0	*
Tetrachloroethene	*	0.8211819	0.964479	0.6238646	0.6515205	0.7675209	0.6844458					0.752	16.9	*
1,1,2,2-Tetrachloroethane	*	0.9340597	0.8523951	0.6758751	0.6524499	0.8827798	0.6862645					0.781	15.7	*
Toluene	*	0.7522913	0.8832557	0.6150790	0.6817522	0.7835332	0.7246355					0.740	12.4	*
Chlorobenzene	*	1.1601822	1.1806076	0.7966406	0.8758742	0.9810231	0.8135367					0.968	17.5	*
Ethylbenzene	*	1.688186	1.8648622	1.3997968	1.4421983	1.8278217	1.4422380					1.611	13.0	*
Styrene	*	0.7976417	0.8593640	0.6873543	0.7040544	0.9274277	0.6754894					0.775	13.3	*
Xylenes (m&p)	*	1.5077808	1.6623203	1.2599384	1.2582900	1.6431538	1.2549835					1.431	13.8	*
Xylenes (o)	*	1.4925766	1.5267545	1.2078870	1.1992399	1.5728065	1.1601357					1.360	13.9	*
Xylene (total)	*	1.4925766	1.5267545	1.2078870	1.1992399	1.5728065	1.1601357					1.360	13.9	*
2-Chlorotoluene	*	1.517113	1.4780849	1.1332923	1.2822669	1.4766226	1.0060270					1.316	16.1	*
n-Propylbenzene	*	2.2424038	2.0362133	1.7252285	1.7600603	2.2794511	1.6189467					1.944	14.5	*
4-Ethyltoluene	*	1.6178798	1.5326281	1.3403475	1.3476812	1.8344776	1.2727329					1.491	14.3	*
1,3,5-Trimethylbenzene	*	1.4778967	1.3540865	1.1659637	1.1709806	1.5456650	1.2188150					1.322	12.3	*

Form 6

VOCS IN AIR INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC Contract: H2M LABS INC

Lab Code: H2M Case No.: AECOM SAS No.: SDG No.: AECOM126

Instrument ID: HP5973I Calibration Dates: 2/18/2011 2/19/2011

Heated Purge: (Y/N) N Calibration Times: 18:03 12:29

GC Column: Rxi-1MS ID: .32 (mm)

LAB FILE ID: TD0.16= I7065.D STD002= I7063.D STD005= I7066.D STD010= I7059.D STD020= I7064.D
STD040= I7061.D

COMPOUND		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6					$\overline{RRF}$	% RSD	R^2	
1,2,4-Trimethylbenzene	*	1.2980682	1.2190265	1.0709528	1.1053408	1.4717351	1.2338446					1.233	11.7	*	
Isopropylbenzene	*	1.6436745	1.7573142	1.446246	1.4548399	1.9398692	1.4550705					1.616	12.6	*	
1,2,3-Trimethylbenzene	*	1.032677	1.2788916	1.1578341	1.1909480	1.5850266	1.5825462					1.305	17.6	*	
1,3-Dichlorobenzene	*	1.2076821	0.9804026	0.7734282	0.8449202	0.9700938	0.7719641					0.925	18.0	*	
1,4-Dichlorobenzene	*	1.2381429	0.9332630	0.7528067	0.8189021	0.9283262	0.8000372					0.912	19.2	*	
1,2-Dichlorobenzene	*	1.0522327	0.7795370	0.6607191	0.6822281	0.8216983	0.7859228					0.797	17.6	*	
Benzyl chloride	*	0.2039979	0.1638889	0.1439710	0.1552134	0.2091473	0.2338989					0.185	19.3	*	
1,3-Hexachlorobutadiene	*	1.2938215	0.8298956	0.8004601	0.8113467	1.0156646	1.0847968					0.973	20.2	*	
1,2,4-Trichlorobenzene	*	0.8187702	0.4336326	0.4161116	0.4311482	0.6367562	0.8686293					0.601	34.2	*	
Indan	*	0.6487982	0.6767423	0.6133094	0.6327756	0.8084271	0.7867233					0.694	11.9	*	
Indene	*	0.8141041	0.8324791	0.7621874	0.7956889	1.0341556	1.1928423					0.905	18.8	*	
1,2,4,5-Tetramethylbenzene	*	0.9807731	1.166143	1.0480292	1.2397401	1.9401842	1.8360024					1.368	30.2	*	
Naphthalene	*	1.3480322	1.0540257	0.9636623	1.1501990	2.2697998	2.0710697					1.476	37.7	*	
2-Methylnaphthalene	*	0.9343742	0.7973837	0.5247976	0.7716164	1.2708297	0					0.860	31.8	*	
1-Methylnaphthalene	*	0.8064496	0.6427547	0.4289950	0.5748690	0.8277324	0					0.656	25.3	*	
4-Bromofluorobenzene	*	0.8017738	0.795066	0.8861956	0.9011032	0.8646474	0.7250516					0.829	8.1	*	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Data File: O:\ms\5973i\DATA\2011\FEB11\021811\I7065.D
Acq On : 19 Feb 2011 10:46
Operator : JV
Sample : VSTD0.16
Misc : ,,,ICAL_0.16,CAL48A,32ML,CAN3812,2-1

Quant Time: Feb 19 17:16:40 2011
InstName : h5973i
Quant Method : C:\MSDCHEM\1\METHODS\AECOM0218TO15.M
QLast Update : Sat Feb 19 16:49:14 2011
Response via : Continuing Cal File: D:\H5973i\DATA\2011\FEB11\021811\I7059.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	16.032	128	288817	10.00	ppbv		0.00
35) 1,4-Difluorobenzene	18.300	114	1405240	10.00	ppbv		0.00
53) Chlorobenzene-d5	22.732	117	1192108	10.00	ppbv		0.00
System Monitoring Compounds							
63) Bromofluorobenzene	24.433	95	955801	8.90	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	89.00%			
Target Compounds							Qvalue
2) Propylene	3.132	41	7128	0.29	ppbv		83
3) Dichlorodifluoromethane	3.437	85	34850	0.21	ppbv		92
4) 1,2-DIchlorotetrafluoroeth	4.662	85	28275	0.20	ppbv		93
5) Chloromethane	4.004	50	6660	0.22	ppbv		89
6) 1,3-Butadiene	5.619	39	6399	0.21	ppbv		82
7) Bromomethane	6.631	94	7981	0.20	ppbv		99
8) Vinyl Chloride	4.967	62	8449	0.22	ppbv		95
9) Chloroethane	7.649	64	3985	0.20	ppbv		93
10) Ethanol	9.454	45	2621m	0.40	ppbv		
11) Isopropanol	11.752	45	12724	0.31	ppbv		89
12) Methylene Chloride	12.740	49	16167	0.38	ppbv		95
13) Allyl chloride	12.935	76	3703	0.20	ppbv		89
14) tert-Butyl alcohol	12.941	59	17561	0.25	ppbv	#	1
15) Vinyl bromide	9.137	106	7149	0.19	ppbv		90
16) Acrolein	10.015	56	2788	0.31	ppbv	#	70
17) Acetone	10.588	43	26484	0.53	ppbv		99
18) Isopentane	10.326	43	3197	0.22	ppbv		83
19) Carbon disulfide	12.740	76	23495	0.20	ppbv		83
20) 1,1,2-Trichloro-1,2,2-trif	13.343	101	16513	0.18	ppbv		84
21) 1,1-Dichloroethene	12.289	96	7467	0.21	ppbv	#	77
22) 1,1-Dichloroethane	14.666	63	13466	0.17	ppbv		99
23) Trichlorofluoromethane	10.710	101	32305	0.17	ppbv		97
24) n-Hexane	16.184	57	6907	0.13	ppbv	#	74
25) Vinyl acetate	15.130	43	10699	0.17	ppbv		95
26) 2-Methylpentane	14.996	71	4757	0.13	ppbv		97
27) Methyl tert-butyl ether	14.916	73	17396	0.17	ppbv		97
28) 1,2-Dichloroethene (trans)	14.386	96	5999	0.16	ppbv	#	85
29) 1,2-Dichloroethene (cis)	15.861	96	6521	0.16	ppbv	#	80
31) Tetrahydrofuran	16.727	42	4346	0.17	ppbv		86
32) Methyl ethyl ketone	15.398	43	12769	0.24	ppbv		94
33) Chloroform	16.251	83	19318	0.16	ppbv		97
34) 1,2-Dichloroethane	17.068	62	14116	0.15	ppbv		95
36) 1,1,1-Trichloroethane	17.343	97	22679	0.19	ppbv		94
37) Cyclohexane	18.129	56	7140	0.16	ppbv		85
38) 2,3-Dimethylpentane	18.452	56	10804	0.18	ppbv		87
39) Thiophene	17.958	58	6061	0.17	ppbv		92
40) Carbon tetrachloride	18.001	117	22105	0.17	ppbv		91
41) 2,2,4-Trimethylpentane	19.056	57	27651	0.18	ppbv		98
42) Bromodichloromethane	18.934	83	20925	0.20	ppbv		95
43) 1,2-Dichloropropane	18.726	63	7328	0.19	ppbv		100
44) 1,4-Dioxane	19.019	88	4389	0.24	ppbv		95
45) 1,3-Dichloropropene (cis)	19.891	75	12202	0.17	ppbv		91
46) Trichloroethene	18.983	130	9007	0.19	ppbv		97
47) Benzene	17.830	78	21707	0.20	ppbv		98
48) Methyl methacrylate	19.257	41	7819	0.21	ppbv		96
49) Dibromochloromethane	21.293	129	15767	0.16	ppbv		93

JV 2/28/11

AECOM126 V116

Quantitation Report (QT Reviewed)

Data File: O:\ms\5973i\DATA\2011\FEB11\021811\I7065.D
Acq On : 19 Feb 2011 10:46
Operator : JV
Sample : VSTD0.16
Misc : ,,,ICAL_0.16,CAL48A,32ML,CAN3812,2-1

Quant Time: Feb 19 17:16:40 2011
InstName : h5973i
Quant Method : C:\MSDCHEM\1\METHODS\AECOM0218TO15.M
QLast Update : Sat Feb 19 16:49:14 2011
Response via : Continuing Cal File: D:\H5973i\DATA\2011\FEB11\021811\I7059.D

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,3-Dichloropropene (trans	20.421	75	12869	0.17	ppbv		86
51) 1,1,2-Trichloroethane	20.586	97	9197	0.20	ppbv		85
52) Bromoform	23.457	173	18716	0.16	ppbv		98
54) n-Heptane	19.354	43	10665	0.20	ppbv		100
55) Methyl isobutyl ketone	19.952	43	13570	0.23	ppbv		92
56) Methyl butyl ketone	21.183	43	13386	0.23	ppbv		92
57) 1,2-Dibromoethane	21.543	107	14322	0.20	ppbv		98
58) Tetrachloroethene	22.055	166	15663	0.20	ppbv		95
59) 1,1,2,2-Tetrachloroethane	23.908	83	17816	0.23	ppbv		96
60) Toluene	20.872	92	14349	0.18	ppbv		93
61) Chlorobenzene	22.781	112	22129	0.21	ppbv		95
62) Ethylbenzene	23.207	91	32200	0.19	ppbv		98
64) Styrene	23.805	104	15214	0.18	ppbv		93
65) Xylenes (m&p)	23.415	91	57518	0.38	ppbv		94
66) Xylenes (o)	23.933	91	28469	0.20	ppbv		98
67) Xylene (total)	23.933	91	28469	0.20	ppbv		98
68) 2-Chlorotoluene	25.128	91	28937	0.19	ppbv		94
69) Propylbenzene	25.183	91	42771	0.20	ppbv		99
70) 4-Ethyltoluene	25.353	105	30859	0.19	ppbv		98
71) 1,3,5-Trimethylbenzene	25.445	105	28189	0.20	ppbv		99
72) 1,2,4-Trimethylbenzene	25.920	105	24759	0.19	ppbv		99
73) 1,2,3-Trimethylbenzene	26.414	105	19697	0.14	ppbv		97
74) Isopropylbenzene	24.603	105	31351	0.18	ppbv		96
75) 1,3-Dichlorobenzene	26.079	146	23035	0.23	ppbv		91
76) 1,4-Dichlorobenzene	26.158	146	23616	0.24	ppbv		98
77) 1,2-Dichlorobenzene	26.560	146	20070	0.25	ppbv		94
78) Benzylchloride	26.060	126	3891	0.21	ppbv		94
79) Indan	26.646	117	12375	0.16	ppbv	#	89
80) Indene	26.749	116	15528	0.16	ppbv		96
81) 1,2,4,5-Tetramethylbenzene	27.859	119	18707	0.13	ppbv	#	90
82) 1,3-Hexachlorobutadiene	29.273	225	24678	0.26	ppbv		99
83) 1,2,4-Trichlorobenzene	28.676	180	15617	0.30	ppbv		88
84) Naphthalene	28.804	128	25712	0.19	ppbv	#	94
85) 2-Methylnaphthalene	30.243	142	17822	0.19	ppbv	#	94
86) 1-Methylnaphthalene	30.480	142	15382	0.22	ppbv		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

AECOM126 V117

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
October 2012

Data Usability Summary Report National Grid/Equity Former MGP Site 2012 Addendum RI Sampling Event Final

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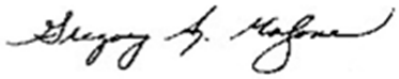

Prepared By
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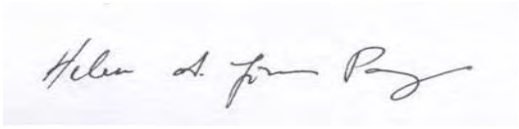

Reviewed By
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Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on three data packages from TestAmerica Laboratories, Inc, TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817 for the analysis of soil and groundwater samples collected from July 14, 2012 to August 11, 2012 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (COC) records.

Soil Samples

- Volatile Organic Compounds with Library Search for Tentatively Identified Compounds (TICs) by USEPA SW-846 Method 8260B
- Semivolatile Organic Compounds with Library Search for TICs by USEPA SW-846 Method 8270C
- Percent Solids for Dry Weight Corrections by Method SM2540 G mod.

Groundwater Samples

- Volatile Organic Compounds with Library Search for TICs by USEPA SW-846 Method 8260B
- Semivolatile Organic Compounds with Library Search for TICs by USEPA SW-846 Method 8270C
- Total Metals (Eight RCRA Metals) by USEPA SW-846 Methods 6010B and 7470A
- Total and Dissolved Iron by USEPA SW-846 Method 6010B
- Total Cyanide by USEPA SW-846 Method 9012A
- Specific Conductance by Standard Methods SM2510B
- Salinity by Standard Methods SMSM2520B

Not all samples were analyzed for all of the tests listed. Refer to the chain-of-custody records (COCs) for the specific tests that were requested. The salinity was calculated using the specific conductance measurement taken at TestAmerica Laboratories, Inc., TestAmerica Pittsburgh, 301 Alpha Drive, Pittsburgh, PA 15238. The groundwater samples for dissolved iron determinations were filtered at the TestAmerica Edison.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, EPA-540-R-10-011, October 2010, as they apply to the analytical methods employed.

The samples were processed and the results were reported under three sample delivery groups (SDGs). Table 1 provides a sample submittal list with the field IDs cross-referenced with the TestAmerica IDs.

Table 1 - Sample Submittals
National Grid / Equity Addendum RI Samples

Field ID	Laboratory ID	Matrix	Date Sampled
SB-31 (33-35)	460-42456-1	Soil	7/14/2012
SB-31 (38-40)	460-42456-2	Soil	7/14/2012
SB-25 (92-93)	460-42919-1	Soil	7/24/2012
SB-25 (103-105)	460-42919-2	Soil	7/24/2012
SB-26 (75-80)	460-42919-3	Soil	7/25/2012
SB-26 (88-90)	460-42919-4	Soil	7/26/2012
MW-8A	460-43466-1	Groundwater	8/11/2012
MW-8B	460-43466-2	Groundwater	8/11/2012
MW-8C	460-43466-3	Groundwater	8/11/2012
SB-20J	460-43466-4	Groundwater	8/11/2012

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil and groundwater) with the qualifications described below. Several data points were qualified because of blank contamination and method and/or instrument bias. There were several instances of elevated reporting limits caused by the dilution required to bring the compound and analyte concentrations into the calibration range and/or minimize matrix interferences. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

460-42456-1

Blank Contamination (pp. 265-267, 276-278): Methylene chloride was detected in the method preparation blank LB3 460-120224/1-A at a concentration greater than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies methylene chloride as a common laboratory solvent and contaminant. The positive methylene chloride result for associated sample SB-31 (33-35) was less than two times the reporting limit and was qualified "U," as undetected, because of laboratory contamination.

Acetone was detected in the method preparation blank LB3 460-120224/1-A at a concentration less than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies acetone as a common laboratory solvent and contaminant. The positive acetone result for associated sample SB-31 (33-35) was less than two times the reporting limit and was qualified "U," as undetected, because of laboratory contamination.

Calibrations (pp. 130, 178, 216-218, 231-233): The 07/03/12 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS5. In addition, the continuing calibration response factor for 1,4-dioxane was less than the specification limit of 0.005 on 07/19/12 at 19:46 on instrument VOAMS5. The non-detect 1,4-dioxane result for associated sample SB-31 (33-35) was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The 07/33/12 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS9. In addition, the continuing calibration response factor for 1,4-dioxane was less than the specification limit of 0.005 on 07/19/12 at 07:52 on instrument VOAMS9. The non-detect 1,4-dioxane result for associated sample SB-31 (38-40) was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The continuing calibration percent difference for chloromethane was less than the lower quality control limit of -20% on 07/19/12 at 07:52 on instrument VOAMS9. The non-detect chloromethane result for associated sample SB-31 (33-35) was qualified "UJ," as an estimate, because of low instrument bias.

460-42919-1

Blank Contamination (pp. 236-238, 243-245, 250-252): Acetone and methylene chloride were detected in the method preparation blank MB 460-122212/5 at concentrations less than two times the reporting limits. In the *National Functional* Guidelines the USEPA identifies acetone and methylene chloride as common laboratory solvents and contaminants. The positive acetone and methylene chloride results for associated samples SB-25 (92-93), SB-25 (103-105), and SB-26 (75-80) were greater than two times the reporting limits and did not require qualification.

Acetone and methylene chloride were detected in the method preparation blank MB 460-122246/5 at concentrations less than two times the reporting limits. In the *National Functional* Guidelines the USEPA identifies acetone and methylene chloride as common laboratory solvents and contaminants. The positive acetone and methylene chloride results for associated sample SB-26 (88-90) were less than two times the reporting limits and were qualified "U," as undetected, because of laboratory contamination.

Calibrations (pp. 163, 208-210, 216-218): The 07/21/12 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS12. In addition, the continuing calibration response factors for 1,4-dioxane were less than the advisory limit of 0.005 on 08/01/12 at 18:19 and 08/02/12 at 04:40 on instrument VOAMS12. The non-detect 1,4-dioxane results for associated samples SB-25 (92-93), SB-25 (103-105), SB-26 (75-80), and SB-26 (88-90) were qualified "UJ," as estimates, because of poor instrument sensitivity.

The continuing calibration percent differences for carbon disulfide and cyclohexane were less than the lower quality control limit of -20% on 08/01/12 at 18:19 on instrument VOAMS12. The positive and non-detect carbon disulfide and cyclohexane results for associated samples SB-25 (92-93), SB-25 (103-105), and SB-26 (75-80) were qualified "J" and "UJ," as estimates, because of low instrument bias.

The continuing calibration percent difference for carbon disulfide was less than the lower quality control limit of -20% on 08/02/12 at 04:40 on instrument VOAMS12. The positive carbon disulfide result for associated sample SB-26 (88-90) was qualified "J," as an estimated concentration, because of low instrument bias.

Laboratory Control Sample RPDs (pp.73-74, 77-78): The relative percent difference (RPD) between the LCS and LCSD 460-122212/3-4 recoveries for chloroethane and dichlorodifluoromethane were greater than the maximum quality control limits. The chloroethane and dichlorodifluoromethane results for associated samples SB-25 (92-93), SB-25 (103-105), and SB-26 (75-80) were non-detect and the LCS/LCSD recoveries were within the quality control limits. No data qualifications were required.

460-43466-1

Calibrations (pp. 195, 235-237, 243-245): The 08/08/12 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS9. In addition, the continuing calibration response factors for 1,4-dioxane were less than the advisory limit of 0.005 on 08/15/12 at 08:47 and 08/15/12 at 20:28 on instrument VOAMS9. The non-detect 1,4-dioxane results for associated samples MW-8A, MW-8B, MW-8C, and SB-20J were qualified "UJ," as estimates, because of poor instrument sensitivity.

The continuing calibration percent difference for tetrachloride was less than the lower quality control limit of -20% on 08/15/12 at 08:47 on instrument VOAMS9. The carbon tetrachloride results for associated samples MW-8A, MW-8B, and SB-20J were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent differences for chloromethane and 1,2-dibromo-3-chloropropane were less than the lower quality control limit of -20% on 08/15/12 at 20:28 on instrument VOAMS9. The positive chloromethane and 1,2-dibromo-3-chloropropane results for associated sample MW-8C were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

Surrogate Recoveries/Dilutions (p. 96): Sample MW-8B required analysis at an initial ten-fold dilution to bring the ethylbenzene concentration into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilution elevated the reporting limits and MDLs for non-detect results.

2.0 Semivolatile Organic Compounds

460-42456-1

Calibrations (pp.414, 478, 536-538, 555-557): The initial calibration relative standard deviations (RSDs) for benzaldehyde were greater than 15% on 06/28/12 and 07/20/12 on instrument BNAMS4. The benzaldehyde, results for associated samples SB-31 (33-35) and SB-31 (38-40) were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

The continuing calibration percent drift for hexachlorocyclopentadiene and 4,6-dinitro-2-methylphenol were less than the lower quality control limit of -20% on 07/19/12 at 02:49 on instrument BNAMS4. Sensitivity decreased with respect to the continuing calibration standard true values. The hexachlorocyclopentadiene and 4,6-dinitro-2-methylphenol results for associated sample SB-31 (33-35) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent difference for benzaldehyde was less than the lower quality control limit of -20% on 07/23/12 at 02:01 on instrument BNAMS4. Sensitivity decreased with respect to the initial calibration average relative response factor. The benzaldehyde result for associated sample SB-31 (38-40) was non-detect and was qualified "UJ," as an estimate, because of low instrument bias.

Laboratory Control Sample Recoveries (pp.345-346): The LCS 460-1202742-A recovery for 1,2,4,5-tetrachlorobenzene was less than the lower quality control limit, but greater than 10%. The 1,2,4,5-tetrachlorobenzene results for associated samples SB-31 (33-35) and SB-31 (38-40) were non-detect and were qualified "UJ," as estimates, because of low method bias.

Surrogate Recoveries/Dilutions (p. 344): Sample SB-31 (38-40) required analysis at an initial ten-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out in this ten-fold dilution analysis and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in-control. No data qualifications were required. The initial dilution elevated the reporting limits and MDLs for non-detect results.

460-42919-1

Calibrations (pp.342, 398-400): The initial calibration RSD for benzaldehyde was greater than 15% on 07/19/12 on instrument BNAMS5. The benzaldehyde results for associated samples SB-25 (92-93), SB-25 (103-105), SB-26 (75-80), and SB-26 (88-90) were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

The continuing calibration percent difference and drift for benzaldehyde and 4-nitroaniline were less than the lower quality control limit of -20% on 08/01/12 at 00:41 on instrument BNAMS5. Sensitivity decreased with respect to the continuing calibration standard true values and initial calibration average relative response factor. The benzaldehyde and 4-nitroaniline results for associated samples SB-25 (92-93), SB-25 (103-105), SB-26 (75-80), and SB-26 (88-90) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

460-43466-1

Calibrations (pp.433, 490-492): The initial calibration RSD for benzaldehyde was greater than 15% on 08/11/12 on instrument BNAMS5. In addition the continuing calibration percent difference for benzaldehyde was less than the lower quality control limit of -20% on 08/15/12 at 11:29 on instrument BNAMS5. The benzaldehyde, results for associated samples MW-8A, MW-8B, MW-8C, and SB-20J were non-detect and were qualified "UJ," as estimates, because of initial calibration nonconformance and low instrument bias.

Laboratory Control Sample Recoveries (pp.328-331): The LCS and/or LCSD (460-123929/2-3-A) recoveries for isophorone and atrazine were less than the lower quality control limits, but greater than 10%. The RPD between the LCS and LCSD recoveries for atrazine was greater than the maximum quality control limit. The isophorone and atrazine results for associated samples MW-8A, MW-8B, MW-8C, and SB-20J were non-detect and were qualified "UJ," as estimates, because of low method bias and method imprecision.

The LCSD (460-123929/3-A) recovery for caprolactam was greater than the upper quality control limit. Caprolactam was not detected in associated samples MW-8A, MW-8B, MW-8C, and SB-20J. No data qualifications were required in response to the high method bias.

Surrogate Recoveries/Dilutions (p. 327): Sample MW-8C required analysis at a 20-fold dilution to bring the naphthalene and 2-methylnaphthalene concentrations into the calibration range. The surrogates were diluted out and could not be used to evaluate method accuracy. The surrogate recoveries for the undiluted analysis of sample MW-8C were within the quality control limits. No data qualifications were required.

3.0 Trace Metals

460-43466-1

No data quality issues were noted. No data qualifications were required.

4.0 Total Cyanide

460-43466-1

Blank Contamination (p. 990): Cyanide was detected in the initial calibration blank at an estimated concentration of 0.00145 mg/L. The positive total cyanide results for associated samples MW-8A, MW-8B, and MW-8C were greater than ten times the blank level and did not require qualification.

5.0 General (Wet) Chemistry

460-43466-1

No data quality issues were noted. No data qualifications were required.

6.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) | Lab Sample ID: 460-42456-1

Matrix: Solid | Lab File ID: k02359.d

Analysis Method: 8260B | Date Collected: 07/14/2012 11:00

Sample wt/vol: 5.53(g) | Date Analyzed: 07/19/2012 11:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 29.8 | Level: (low/med) Low

Analysis Batch No.: 120467 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.21	UJ	1.3	0.21
74-83-9	Bromomethane	0.55	U	1.3	0.55
75-01-4	Vinyl chloride	0.44	U	1.3	0.44
75-00-3	Chloroethane	0.42	U	1.3	0.42
75-09-2	Methylene Chloride	4.1	~~B~~ U	1.3	0.19
67-64-1	Acetone	16	~~B~~ U	13	2.2
75-15-0	Carbon disulfide	0.19	U	1.3	0.19
75-69-4	Trichlorofluoromethane	0.21	U	1.3	0.21
75-35-4	1,1-Dichloroethene	0.24	U	1.3	0.24
75-34-3	1,1-Dichloroethane	0.14	U	1.3	0.14
156-60-5	trans-1,2-Dichloroethene	0.17	U	1.3	0.17
156-59-2	cis-1,2-Dichloroethene	0.14	U	1.3	0.14
67-66-3	Chloroform	0.31	U	1.3	0.31
78-93-3	2-Butanone	0.81	U	13	0.81
107-06-2	1,2-Dichloroethane	0.23	U	1.3	0.23
71-55-6	1,1,1-Trichloroethane	0.17	U	1.3	0.17
56-23-5	Carbon tetrachloride	0.19	U	1.3	0.19
71-43-2	Benzene	1.6		1.3	0.19
75-25-2	Bromoform	0.22	U	1.3	0.22
100-42-5	Styrene	0.36	U	1.3	0.36
100-41-4	Ethylbenzene	0.25	J	1.3	0.22
108-90-7	Chlorobenzene	0.23	U	1.3	0.23
110-82-7	Cyclohexane	0.17	U	1.3	0.17
98-82-8	Isopropylbenzene	0.14	U	1.3	0.14
591-78-6	2-Hexanone	0.17	U	13	0.17
1634-04-4	MTBE	0.14	U	1.3	0.14
76-13-1	Freon TF	0.14	U	1.3	0.14
79-20-9	Methyl acetate	0.41	U	1.3	0.41
123-91-1	1,4-Dioxane	16	UJ	64	16
79-01-6	Trichloroethene	0.15	U	1.3	0.15
108-88-3	Toluene	0.51	J	1.3	0.18
10061-02-6	trans-1,3-Dichloropropene	0.13	U	1.3	0.13
108-10-1	4-Methyl-2-pentanone	0.26	U	13	0.26
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.3	0.18
95-50-1	1,2-Dichlorobenzene	0.13	U	1.3	0.13
541-73-1	1,3-Dichlorobenzene	0.21	U	1.3	0.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) | Lab Sample ID: 460-42456-1

Matrix: Solid | Lab File ID: k02359.d

Analysis Method: 8260B | Date Collected: 07/14/2012 11:00

Sample wt/vol: 5.53(g) | Date Analyzed: 07/19/2012 11:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 29.8 | Level: (low/med) Low

Analysis Batch No.: 120467 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.14	U	1.3	0.14
120-82-1	1,2,4-Trichlorobenzene	0.24	U	1.3	0.24
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.3	0.21
78-87-5	1,2-Dichloropropane	0.19	U	1.3	0.19
108-87-2	Methylcyclohexane	0.13	U	1.3	0.13
127-18-4	Tetrachloroethene	0.15	U	1.3	0.15
1330-20-7	Xylenes, Total	0.86	U	3.9	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	0.57	U	1.3	0.57
79-34-5	1,1,2,2-Tetrachloroethane	0.12	U	1.3	0.12
79-00-5	1,1,2-Trichloroethane	0.18	U	1.3	0.18
124-48-1	Dibromochloromethane	0.13	U	1.3	0.13
106-93-4	1,2-Dibromoethane	0.19	U	1.3	0.19
75-71-8	Dichlorodifluoromethane	0.28	U	1.3	0.28
74-97-5	Bromochloromethane	0.14	U	1.3	0.14
75-27-4	Bromodichloromethane	0.41	U	1.3	0.41

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
460-00-4	Bromofluorobenzene	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) Lab Sample ID: 460-42456-1

Matrix: Solid Lab File ID: k02359.d

Analysis Method: 8260B Date Collected: 07/14/2012 11:00

Sample wt/vol: 5.53(g) Date Analyzed: 07/19/2012 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: 29.8 Level: (low/med) Low

Analysis Batch No.: 120467 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 9.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
91-20-3	Naphthalene	12.41	9.5	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) | Lab Sample ID: 460-42456-2

Matrix: Solid | Lab File ID: e05722.d

Analysis Method: 8260B | Date Collected: 07/14/2012 11:30

Sample wt/vol: 5.07(g) | Date Analyzed: 07/20/2012 06:15

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-VMS | ID: 0.18(mm)

% Moisture: 20.1 | Level: (low/med) Medium

Analysis Batch No.: 120595 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	120	U	1200	120
74-83-9	Bromomethane	220	U	1200	220
75-01-4	Vinyl chloride	180	U	1200	180
75-00-3	Chloroethane	210	U	1200	210
75-09-2	Methylene Chloride	230	U	1200	230
67-64-1	Acetone	3300	U	6200	3300
75-15-0	Carbon disulfide	150	U	1200	150
75-69-4	Trichlorofluoromethane	180	U	1200	180
75-35-4	1,1-Dichloroethene	110	U	1200	110
75-34-3	1,1-Dichloroethane	160	U	1200	160
156-60-5	trans-1,2-Dichloroethene	160	U	1200	160
156-59-2	cis-1,2-Dichloroethene	220	U	1200	220
67-66-3	Chloroform	97	U	1200	97
78-93-3	2-Butanone	2900	U	6200	2900
107-06-2	1,2-Dichloroethane	230	U	1200	230
71-55-6	1,1,1-Trichloroethane	77	U	1200	77
56-23-5	Carbon tetrachloride	70	U	1200	70
71-43-2	Benzene	9400		1200	100
75-25-2	Bromoform	240	U	1200	240
100-42-5	Styrene	37000		1200	150
100-41-4	Ethylbenzene	15000		1200	120
108-90-7	Chlorobenzene	140	U	1200	140
110-82-7	Cyclohexane	200	U	1200	200
98-82-8	Isopropylbenzene	350	J	1200	95
591-78-6	2-Hexanone	620	U	6200	620
1634-04-4	MTBE	170	U	1200	170
76-13-1	Freon TF	100	U	1200	100
79-20-9	Methyl acetate	410	U	2500	410
123-91-1	1,4-Dioxane	44000	UJ	62000	44000
79-01-6	Trichloroethene	110	U	1200	110
108-88-3	Toluene	20000		1200	180
10061-02-6	trans-1,3-Dichloropropene	300	U	1200	300
108-10-1	4-Methyl-2-pentanone	1200	U	6200	1200
10061-01-5	cis-1,3-Dichloropropene	230	U	1200	230
95-50-1	1,2-Dichlorobenzene	250	U	1200	250
541-73-1	1,3-Dichlorobenzene	170	U	1200	170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) | Lab Sample ID: 460-42456-2

Matrix: Solid | Lab File ID: e05722.d

Analysis Method: 8260B | Date Collected: 07/14/2012 11:30

Sample wt/vol: 5.07(g) | Date Analyzed: 07/20/2012 06:15

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-VMS | ID: 0.18(mm)

% Moisture: 20.1 | Level: (low/med) Medium

Analysis Batch No.: 120595 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	290	U	1200	290
120-82-1	1,2,4-Trichlorobenzene	420	U	1200	420
87-61-6	1,2,3-Trichlorobenzene	630	U	1200	630
78-87-5	1,2-Dichloropropane	110	U	1200	110
108-87-2	Methylcyclohexane	170	U	1200	170
127-18-4	Tetrachloroethene	120	U	1200	120
1330-20-7	Xylenes, Total	54000		3700	440
96-12-8	1,2-Dibromo-3-Chloropropane	490	U	1200	490
79-34-5	1,1,2,2-Tetrachloroethane	190	U	1200	190
79-00-5	1,1,2-Trichloroethane	230	U	1200	230
124-48-1	Dibromochloromethane	250	U	1200	250
106-93-4	1,2-Dibromoethane	340	U	1200	340
75-71-8	Dichlorodifluoromethane	270	U	1200	270
74-97-5	Bromochloromethane	340	U	1200	340
75-27-4	Bromodichloromethane	150	U	1200	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		75-135
2037-26-5	Toluene-d8 (Surr)	103		59-150
460-00-4	Bromofluorobenzene	105		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) Lab Sample ID: 460-42456-2

Matrix: Solid Lab File ID: e05722.d

Analysis Method: 8260B Date Collected: 07/14/2012 11:30

Sample wt/vol: 5.07(g) Date Analyzed: 07/20/2012 06:15

Soil Aliquot Vol: 5 (mL) Dilution Factor: 500

Soil Extract Vol.: 10(mL) GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: 20.1 Level: (low/med) Medium

Analysis Batch No.: 120595 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 1.385e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	1,2,4-Trimethylbenzene	9.92	27000	
	C9H10 Aromatic	10.14	44000	J
95-13-6	Indene	11.29	180000	J N
	Unknown Aromatic	12.71	41000	J
	Unknown Aromatic-1	12.84	44000	J
91-20-3	Naphthalene	13.27	780000	E
91-57-6	Naphthalene, 2-methyl-	14.21	140000	J N
90-12-0	Naphthalene, 1-methyl-	14.32	78000	J N
	Dimethylnaphthalene isomer	14.98	22000	J
	Dimethylnaphthalene isomer-1	15.07	29000	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) | Lab Sample ID: 460-42456-1

Matrix: Solid | Lab File ID: u78524.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:00

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.02(g) | Date Analyzed: 07/19/2012 08:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120549 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	63	U	470	63
95-57-8	2-Chlorophenol	62	U	470	62
95-48-7	2-Methylphenol	80	U	470	80
106-44-5	4-Methylphenol	93	U	470	93
100-52-7	Benzaldehyde	55	UJ	470	55
98-86-2	Acetophenone	72	U	470	72
111-44-4	Bis(2-chloroethyl)ether	6.4	U	47	6.4
108-60-1	2,2'-oxybis[1-chloropropane]	52	U	470	52
621-64-7	N-Nitrosodi-n-propylamine	7.9	U	47	7.9
98-95-3	Nitrobenzene	6.7	U	47	6.7
67-72-1	Hexachloroethane	5.2	U	47	5.2
78-59-1	Isophorone	57	U	470	57
88-75-5	2-Nitrophenol	52	U	470	52
105-67-9	2,4-Dimethylphenol	120	U	470	120
120-83-2	2,4-Dichlorophenol	69	U	470	69
111-91-1	Bis(2-chloroethoxy)methane	61	U	470	61
91-20-3	Naphthalene	610		470	54
106-47-8	4-Chloroaniline	120	U	470	120
87-68-3	Hexachlorobutadiene	11	U	95	11
105-60-2	Caprolactam	110	U	470	110
59-50-7	4-Chloro-3-methylphenol	71	U	470	71
91-57-6	2-Methylnaphthalene	140	J	470	60
118-74-1	Hexachlorobenzene	6.4	U	47	6.4
77-47-4	Hexachlorocyclopentadiene	55	UJ	470	55
88-06-2	2,4,6-Trichlorophenol	55	U	470	55
95-95-4	2,4,5-Trichlorophenol	61	U	470	61
92-52-4	Diphenyl	63	U	470	63
91-58-7	2-Chloronaphthalene	52	U	470	52
88-74-4	2-Nitroaniline	200	U	950	200
606-20-2	2,6-Dinitrotoluene	14	U	95	14
131-11-3	Dimethyl phthalate	56	U	470	56
208-96-8	Acenaphthylene	56	U	470	56
99-09-2	3-Nitroaniline	170	U	950	170
83-32-9	Acenaphthene	69	U	470	69

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) | Lab Sample ID: 460-42456-1

Matrix: Solid | Lab File ID: u78524.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:00

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.02(g) | Date Analyzed: 07/19/2012 08:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120549 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	300	U	1400	300
51-28-5	2,4-Dinitrophenol	270	U	1400	270
132-64-9	Dibenzofuran	55	U	470	55
84-66-2	Diethyl phthalate	56	U	470	56
86-73-7	Fluorene	60	U	470	60
206-44-0	Fluoranthene	63	U	470	63
84-74-2	Di-n-butyl phthalate	58	U	470	58
121-14-2	2,4-Dinitrotoluene	16	U	95	16
7005-72-3	4-Chlorophenyl phenyl ether	55	U	470	55
100-01-6	4-Nitroaniline	150	U	950	150
534-52-1	4,6-Dinitro-2-methylphenol	130	UJ	1400	130
101-55-3	4-Bromophenyl phenyl ether	47	U	470	47
1912-24-9	Atrazine	73	U	470	73
120-12-7	Anthracene	57	U	470	57
86-74-8	Carbazole	56	U	470	56
85-01-8	Phenanthrene	60	U	470	60
87-86-5	Pentachlorophenol	140	U	1400	140
129-00-0	Pyrene	39	U	470	39
218-01-9	Chrysene	55	U	470	55
207-08-9	Benzo[k]fluoranthene	3.6	U	47	3.6
191-24-2	Benzo[g,h,i]perylene	35	U	470	35
205-99-2	Benzo[b]fluoranthene	3.0	U	47	3.0
50-32-8	Benzo[a]pyrene	3.3	U	47	3.3
56-55-3	Benzo[a]anthracene	3.3	U	47	3.3
86-30-6	N-Nitrosodiphenylamine	46	U	470	46
85-68-7	Butyl benzyl phthalate	43	U	470	43
117-81-7	Bis(2-ethylhexyl) phthalate	160	U	470	160
117-84-0	Di-n-octyl phthalate	30	U	470	30
193-39-5	Indeno[1,2,3-cd]pyrene	8.7	U	47	8.7
53-70-3	Dibenz(a,h)anthracene	5.9	U	47	5.9
91-94-1	3,3'-Dichlorobenzidine	160	U	950	160
95-94-3	1,2,4,5-Tetrachlorobenzene	63	UJ	470	63
58-90-2	2,3,4,6-Tetrachlorophenol	61	U	470	61

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (33-35) | Lab Sample ID: 460-42456-1

Matrix: Solid | Lab File ID: u78524.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:00

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.02(g) | Date Analyzed: 07/19/2012 08:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120549 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 820

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown-1	9.92	400	J
	Unknown-2	10.58	420	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) DL | Lab Sample ID: 460-42456-2 DL

Matrix: Solid | Lab File ID: u78646.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:30

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.03(g) | Date Analyzed: 07/23/2012 06:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120928 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	550	U	4100	550
95-57-8	2-Chlorophenol	540	U	4100	540
95-48-7	2-Methylphenol	700	U	4100	700
106-44-5	4-Methylphenol	810	U	4100	810
100-52-7	Benzaldehyde	490	U J	4100	490
98-86-2	Acetophenone	630	U	4100	630
111-44-4	Bis(2-chloroethyl)ether	56	U	410	56
108-60-1	2,2'-oxybis[1-chloropropane]	460	U	4100	460
621-64-7	N-Nitrosodi-n-propylamine	69	U	410	69
98-95-3	Nitrobenzene	59	U	410	59
67-72-1	Hexachloroethane	46	U	410	46
78-59-1	Isophorone	500	U	4100	500
88-75-5	2-Nitrophenol	460	U	4100	460
105-67-9	2,4-Dimethylphenol	1000	U	4100	1000
120-83-2	2,4-Dichlorophenol	600	U	4100	600
111-91-1	Bis(2-chloroethoxy)methane	530	U	4100	530
91-20-3	Naphthalene	1200	J D	4100	480
106-47-8	4-Chloroaniline	1100	U	4100	1100
87-68-3	Hexachlorobutadiene	100	U	840	100
105-60-2	Caprolactam	950	U	4100	950
59-50-7	4-Chloro-3-methylphenol	620	U	4100	620
91-57-6	2-Methylnaphthalene	2000	J D	4100	530
118-74-1	Hexachlorobenzene	56	U	410	56
77-47-4	Hexachlorocyclopentadiene	490	U	4100	490
88-06-2	2,4,6-Trichlorophenol	480	U	4100	480
95-95-4	2,4,5-Trichlorophenol	530	U	4100	530
92-52-4	Diphenyl	780	J D	4100	550
91-58-7	2-Chloronaphthalene	460	U	4100	460
88-74-4	2-Nitroaniline	1700	U	8400	1700
606-20-2	2,6-Dinitrotoluene	120	U	840	120
131-11-3	Dimethyl phthalate	490	U	4100	490
208-96-8	Acenaphthylene	9000	D	4100	490
99-09-2	3-Nitroaniline	1500	U	8400	1500
83-32-9	Acenaphthene	900	J D	4100	600

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) DL | Lab Sample ID: 460-42456-2 DL

Matrix: Solid | Lab File ID: u78646.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:30

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.03(g) | Date Analyzed: 07/23/2012 06:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120928 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	2700	U	12000	2700
51-28-5	2,4-Dinitrophenol	2300	U	12000	2300
132-64-9	Dibenzofuran	790	J D	4100	480
84-66-2	Diethyl phthalate	490	U	4100	490
86-73-7	Fluorene	9900	D	4100	530
206-44-0	Fluoranthene	16000	D	4100	550
84-74-2	Di-n-butyl phthalate	510	U	4100	510
121-14-2	2,4-Dinitrotoluene	140	U	840	140
7005-72-3	4-Chlorophenyl phenyl ether	480	U	4100	480
100-01-6	4-Nitroaniline	1300	U	8400	1300
534-52-1	4,6-Dinitro-2-methylphenol	1100	U	12000	1100
101-55-3	4-Bromophenyl phenyl ether	410	U	4100	410
1912-24-9	Atrazine	640	U	4100	640
120-12-7	Anthracene	13000	D	4100	500
86-74-8	Carbazole	520	J D	4100	490
85-01-8	Phenanthrene	57000	D	4100	530
87-86-5	Pentachlorophenol	1200	U	12000	1200
129-00-0	Pyrene	25000	D	4100	350
218-01-9	Chrysene	10000	D	4100	480
207-08-9	Benzo[k]fluoranthene	2200	D	410	31
191-24-2	Benzo[g,h,i]perylene	2700	J D	4100	310
205-99-2	Benzo[b]fluoranthene	3300	D	410	26
50-32-8	Benzo[a]pyrene	6300	D	410	29
56-55-3	Benzo[a]anthracene	8900	D	410	29
86-30-6	N-Nitrosodiphenylamine	410	U	4100	410
85-68-7	Butyl benzyl phthalate	380	U	4100	380
117-81-7	Bis(2-ethylhexyl) phthalate	1400	U	4100	1400
117-84-0	Di-n-octyl phthalate	260	U	4100	260
193-39-5	Indeno[1,2,3-cd]pyrene	2200	D	410	77
53-70-3	Dibenz(a,h)anthracene	740	D	410	52
91-94-1	3,3'-Dichlorobenzidine	1400	U	8400	1400
95-94-3	1,2,4,5-Tetrachlorobenzene	560	U J	4100	560
58-90-2	2,3,4,6-Tetrachlorophenol	540	U	4100	540

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: SB-31 (38-40) DL | Lab Sample ID: 460-42456-2 DL

Matrix: Solid | Lab File ID: u78646.d

Analysis Method: 8270C | Date Collected: 07/14/2012 11:30

Extract. Method: 3541 | Date Extracted: 07/18/2012 08:36

Sample wt/vol: 15.03(g) | Date Analyzed: 07/23/2012 06:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 120928 | Units: ug/Kg

Number TICs Found: 11 | TIC Result Total: 72300

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	C13H10 PAH	6.96	3400	D J
132-65-0	Dibenzothiophene	7.54	6900	D J N
	C15H12 PAH-1	8.15	7800	D J
	C15H12 PAH-2	8.18	8700	D J
	C15H10 PAH	8.24	13000	D J
	C15H12 PAH-3	8.27	6200	D J
	C16H12 PAH	8.44	5400	D J
	C16H14 PAH	8.69	4100	D J
	C16H10 PAH	8.92	6400	D J
	C17H12 PAH-1	9.38	5700	D J
	C17H12 PAH-2	9.44	4700	D J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) | Lab Sample ID: 460-42919-1

Matrix: Solid | Lab File ID: o62917.d

Analysis Method: 8260B | Date Collected: 07/24/2012 11:00

Sample wt/vol: 5.22(g) | Date Analyzed: 08/02/2012 00:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.8 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.18	U	1.1	0.18
74-83-9	Bromomethane	0.47	U	1.1	0.47
75-01-4	Vinyl chloride	0.37	U	1.1	0.37
75-00-3	Chloroethane	0.36	U	1.1	0.36
75-09-2	Methylene Chloride	7.8	~~B~~	1.1	0.16
67-64-1	Acetone	32	~~B~~	11	1.9
75-15-0	Carbon disulfide	1.9	J	1.1	0.16
75-69-4	Trichlorofluoromethane	0.18	U	1.1	0.18
75-35-4	1,1-Dichloroethene	0.21	U	1.1	0.21
75-34-3	1,1-Dichloroethane	0.12	U	1.1	0.12
156-60-5	trans-1,2-Dichloroethene	1.6		1.1	0.14
156-59-2	cis-1,2-Dichloroethene	0.80	J	1.1	0.12
67-66-3	Chloroform	0.26	U	1.1	0.26
78-93-3	2-Butanone	4.0	J	11	0.69
107-06-2	1,2-Dichloroethane	0.20	U	1.1	0.20
71-55-6	1,1,1-Trichloroethane	0.14	U	1.1	0.14
56-23-5	Carbon tetrachloride	0.16	U	1.1	0.16
71-43-2	Benzene	1.9		1.1	0.16
75-25-2	Bromoform	0.19	U	1.1	0.19
100-42-5	Styrene	0.31	U	1.1	0.31
100-41-4	Ethylbenzene	1.6		1.1	0.19
108-90-7	Chlorobenzene	0.20	U	1.1	0.20
110-82-7	Cyclohexane	0.14	UJ	1.1	0.14
98-82-8	Isopropylbenzene	0.15	J	1.1	0.12
591-78-6	2-Hexanone	0.14	U	11	0.14
1634-04-4	MTBE	0.12	U	1.1	0.12
76-13-1	Freon TF	0.12	U	1.1	0.12
79-20-9	Methyl acetate	0.35	U	1.1	0.35
123-91-1	1,4-Dioxane	14	UJ	55	14
79-01-6	Trichloroethene	1.2		1.1	0.13
108-88-3	Toluene	0.43	J	1.1	0.15
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
108-10-1	4-Methyl-2-pentanone	0.22	U	11	0.22
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.1	0.15
95-50-1	1,2-Dichlorobenzene	0.11	U	1.1	0.11
541-73-1	1,3-Dichlorobenzene	0.18	U	1.1	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) | Lab Sample ID: 460-42919-1

Matrix: Solid | Lab File ID: o62917.d

Analysis Method: 8260B | Date Collected: 07/24/2012 11:00

Sample wt/vol: 5.22(g) | Date Analyzed: 08/02/2012 00:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.8 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.12	U	1.1	0.12
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.1	0.21
87-61-6	1,2,3-Trichlorobenzene	0.18	U	1.1	0.18
78-87-5	1,2-Dichloropropane	0.16	U	1.1	0.16
108-87-2	Methylcyclohexane	0.11	U	1.1	0.11
127-18-4	Tetrachloroethene	0.37	J	1.1	0.13
1330-20-7	Xylenes, Total	0.74	U	3.3	0.74
96-12-8	1,2-Dibromo-3-Chloropropane	0.48	U	1.1	0.48
79-34-5	1,1,2,2-Tetrachloroethane	0.099	U	1.1	0.099
79-00-5	1,1,2-Trichloroethane	0.15	U	1.1	0.15
124-48-1	Dibromochloromethane	0.11	U	1.1	0.11
106-93-4	1,2-Dibromoethane	0.16	U	1.1	0.16
75-71-8	Dichlorodifluoromethane	0.24	U	1.1	0.24
74-97-5	Bromochloromethane	0.12	U	1.1	0.12
75-27-4	Bromodichloromethane	0.35	U	1.1	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	107		70-130
460-00-4	Bromofluorobenzene	115		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) Lab Sample ID: 460-42919-1

Matrix: Solid Lab File ID: o62917.d

Analysis Method: 8260B Date Collected: 07/24/2012 11:00

Sample wt/vol: 5.22(g) Date Analyzed: 08/02/2012 00:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.8 Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 45

CAS NO.	COMPOUND NAME	RT	RESULT	Q
91-20-3	Naphthalene	13.47	33	
	Methylnaphthalene isomer	14.53	12	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) | Lab Sample ID: 460-42919-2

Matrix: Solid | Lab File ID: o62918.d

Analysis Method: 8260B | Date Collected: 07/24/2012 11:30

Sample wt/vol: 5.01(g) | Date Analyzed: 08/02/2012 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.6 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.18	U	1.1	0.18
74-83-9	Bromomethane	0.49	U	1.1	0.49
75-01-4	Vinyl chloride	0.39	U	1.1	0.39
75-00-3	Chloroethane	0.38	U ✓	1.1	0.38
75-09-2	Methylene Chloride	17	~~B~~	1.1	0.17
67-64-1	Acetone	29	~~B~~	11	1.9
75-15-0	Carbon disulfide	0.23	J	1.1	0.17
75-69-4	Trichlorofluoromethane	0.18	U	1.1	0.18
75-35-4	1,1-Dichloroethene	0.22	U	1.1	0.22
75-34-3	1,1-Dichloroethane	0.13	U	1.1	0.13
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.1	0.15
156-59-2	cis-1,2-Dichloroethene	0.13	U	1.1	0.13
67-66-3	Chloroform	0.27	U	1.1	0.27
78-93-3	2-Butanone	0.72	U	11	0.72
107-06-2	1,2-Dichloroethane	0.21	U	1.1	0.21
71-55-6	1,1,1-Trichloroethane	0.15	U	1.1	0.15
56-23-5	Carbon tetrachloride	0.17	U	1.1	0.17
71-43-2	Benzene	0.24	J	1.1	0.17
75-25-2	Bromoform	0.19	U	1.1	0.19
100-42-5	Styrene	0.32	U	1.1	0.32
100-41-4	Ethylbenzene	0.19	U	1.1	0.19
108-90-7	Chlorobenzene	0.21	U	1.1	0.21
110-82-7	Cyclohexane	0.15	U J	1.1	0.15
98-82-8	Isopropylbenzene	0.13	U	1.1	0.13
591-78-6	2-Hexanone	0.15	U	11	0.15
1634-04-4	MTBE	0.13	U	1.1	0.13
76-13-1	Freon TF	0.13	U	1.1	0.13
79-20-9	Methyl acetate	0.37	U	1.1	0.37
123-91-1	1,4-Dioxane	14	U J	57	14
79-01-6	Trichloroethene	0.14	U	1.1	0.14
108-88-3	Toluene	0.52	J	1.1	0.16
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
108-10-1	4-Methyl-2-pentanone	0.23	U	11	0.23
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.1	0.16
95-50-1	1,2-Dichlorobenzene	0.11	U	1.1	0.11
541-73-1	1,3-Dichlorobenzene	0.18	U	1.1	0.18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) | Lab Sample ID: 460-42919-2

Matrix: Solid | Lab File ID: o62918.d

Analysis Method: 8260B | Date Collected: 07/24/2012 11:30

Sample wt/vol: 5.01(g) | Date Analyzed: 08/02/2012 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.6 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.13	U	1.1	0.13
120-82-1	1,2,4-Trichlorobenzene	0.22	U	1.1	0.22
87-61-6	1,2,3-Trichlorobenzene	0.18	U	1.1	0.18
78-87-5	1,2-Dichloropropane	0.17	U	1.1	0.17
108-87-2	Methylcyclohexane	0.11	U	1.1	0.11
127-18-4	Tetrachloroethene	0.14	U	1.1	0.14
1330-20-7	Xylenes, Total	0.76	U	3.4	0.76
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	1.1	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.10	U	1.1	0.10
79-00-5	1,1,2-Trichloroethane	0.16	U	1.1	0.16
124-48-1	Dibromochloromethane	0.11	U	1.1	0.11
106-93-4	1,2-Dibromoethane	0.17	U	1.1	0.17
75-71-8	Dichlorodifluoromethane	0.25	U	1.1	0.25
74-97-5	Bromochloromethane	0.13	U	1.1	0.13
75-27-4	Bromodichloromethane	0.37	U	1.1	0.37

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
460-00-4	Bromofluorobenzene	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) | Lab Sample ID: 460-42919-2

Matrix: Solid | Lab File ID: o62918.d

Analysis Method: 8260B | Date Collected: 07/24/2012 11:30

Sample wt/vol: 5.01(g) | Date Analyzed: 08/02/2012 00:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 12.6 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) | Lab Sample ID: 460-42919-3

Matrix: Solid | Lab File ID: o62919.d

Analysis Method: 8260B | Date Collected: 07/25/2012 16:00

Sample wt/vol: 5.43(g) | Date Analyzed: 08/02/2012 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.0 | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.17	U	1.1	0.17
74-83-9	Bromomethane	0.46	U	1.1	0.46
75-01-4	Vinyl chloride	0.36	U	1.1	0.36
75-00-3	Chloroethane	0.35	U	1.1	0.35
75-09-2	Methylene Chloride	11	~~B~~	1.1	0.16
67-64-1	Acetone	48	~~B~~	11	1.8
75-15-0	Carbon disulfide	0.43	J	1.1	0.16
75-69-4	Trichlorofluoromethane	0.17	U	1.1	0.17
75-35-4	1,1-Dichloroethene	0.20	U	1.1	0.20
75-34-3	1,1-Dichloroethane	0.12	U	1.1	0.12
156-60-5	trans-1,2-Dichloroethene	0.14	U	1.1	0.14
156-59-2	cis-1,2-Dichloroethene	1.2		1.1	0.12
67-66-3	Chloroform	0.26	U	1.1	0.26
78-93-3	2-Butanone	0.67	U	11	0.67
107-06-2	1,2-Dichloroethane	0.19	U	1.1	0.19
71-55-6	1,1,1-Trichloroethane	0.14	U	1.1	0.14
56-23-5	Carbon tetrachloride	0.16	U	1.1	0.16
71-43-2	Benzene	21		1.1	0.16
75-25-2	Bromoform	0.18	U	1.1	0.18
100-42-5	Styrene	7.0		1.1	0.30
100-41-4	Ethylbenzene	5.5		1.1	0.18
108-90-7	Chlorobenzene	0.19	U	1.1	0.19
110-82-7	Cyclohexane	0.14	UJ	1.1	0.14
98-82-8	Isopropylbenzene	0.22	J	1.1	0.12
591-78-6	2-Hexanone	0.14	U	11	0.14
1634-04-4	MTBE	0.12	U	1.1	0.12
76-13-1	Freon TF	0.12	U	1.1	0.12
79-20-9	Methyl acetate	0.34	U	1.1	0.34
123-91-1	1,4-Dioxane	14	UJ	54	14
79-01-6	Trichloroethene	5.0		1.1	0.13
108-88-3	Toluene	8.0		1.1	0.15
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
108-10-1	4-Methyl-2-pentanone	0.21	U	11	0.21
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.1	0.15
95-50-1	1,2-Dichlorobenzene	0.11	U	1.1	0.11
541-73-1	1,3-Dichlorobenzene	0.17	U	1.1	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) Lab Sample ID: 460-42919-3

Matrix: Solid Lab File ID: o62919.d

Analysis Method: 8260B Date Collected: 07/25/2012 16:00

Sample wt/vol: 5.43(g) Date Analyzed: 08/02/2012 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.0 Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.12	U	1.1	0.12
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1.1	0.20
87-61-6	1,2,3-Trichlorobenzene	0.17	U	1.1	0.17
78-87-5	1,2-Dichloropropane	0.16	U	1.1	0.16
108-87-2	Methylcyclohexane	0.11	U	1.1	0.11
127-18-4	Tetrachloroethene	4.6		1.1	0.13
1330-20-7	Xylenes, Total	10		3.2	0.72
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.1	0.47
79-34-5	1,1,2,2-Tetrachloroethane	0.096	U	1.1	0.096
79-00-5	1,1,2-Trichloroethane	0.15	U	1.1	0.15
124-48-1	Dibromochloromethane	0.11	U	1.1	0.11
106-93-4	1,2-Dibromoethane	0.16	U	1.1	0.16
75-71-8	Dichlorodifluoromethane	0.24	U	1.1	0.24
74-97-5	Bromochloromethane	0.12	U	1.1	0.12
75-27-4	Bromodichloromethane	0.34	U	1.1	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
460-00-4	Bromofluorobenzene	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) Lab Sample ID: 460-42919-3

Matrix: Solid Lab File ID: o62919.d

Analysis Method: 8260B Date Collected: 07/25/2012 16:00

Sample wt/vol: 5.43(g) Date Analyzed: 08/02/2012 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 14.0 Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

Number TICs Found: 8 TIC Result Total: 264.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	C9H10 Aromatic	10.56	5.4	J
95-13-6	Indene	11.66	49	J N
	C10H10 Aromatic	12.99	6.6	J
	C10H10 Aromatic-1	13.09	8.3	J
91-20-3	Naphthalene	13.48	150	
270-82-6	2-Benzothiophene #	13.58	5.9	J N
91-57-6	Naphthalene, 2-methyl-	14.40	18	J N
90-12-0	Naphthalene, 1-methyl-	14.53	21	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) | Lab Sample ID: 460-42919-4

Matrix: Solid | Lab File ID: o62953.d

Analysis Method: 8260B | Date Collected: 07/26/2012 08:30

Sample wt/vol: 5.63(g) | Date Analyzed: 08/02/2012 16:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 13.3 | Level: (low/med) Low

Analysis Batch No.: 122246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-01-4	Vinyl chloride	0.35	U	1.0	0.35
75-00-3	Chloroethane	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	1.7	~~B~~ U	1.0	0.15
67-64-1	Acetone	13	~~B~~ U	10	1.7
75-15-0	Carbon disulfide	0.57	J	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	3.6		1.0	0.13
156-59-2	cis-1,2-Dichloroethene	4.3		1.0	0.11
67-66-3	Chloroform	0.25	U	1.0	0.25
78-93-3	2-Butanone	0.65	U	10	0.65
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.31	J	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	2.7		1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.33	U	1.0	0.33
123-91-1	1,4-Dioxane	13	UJ	51	13
79-01-6	Trichloroethene	11		1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) | Lab Sample ID: 460-42919-4

Matrix: Solid | Lab File ID: o62953.d

Analysis Method: 8260B | Date Collected: 07/26/2012 08:30

Sample wt/vol: 5.63(g) | Date Analyzed: 08/02/2012 16:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 13.3 | Level: (low/med) Low

Analysis Batch No.: 122246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	200		1.0	0.12
1330-20-7	Xylenes, Total	0.69	U	3.1	0.69
96-12-8	1,2-Dibromo-3-Chloropropane	0.45	U	1.0	0.45
79-34-5	1,1,2,2-Tetrachloroethane	0.092	U	1.0	0.092
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.23	U	1.0	0.23
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.33	U	1.0	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) Lab Sample ID: 460-42919-4

Matrix: Solid Lab File ID: o62953.d

Analysis Method: 8260B Date Collected: 07/26/2012 08:30

Sample wt/vol: 5.63(g) Date Analyzed: 08/02/2012 16:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 13.3 Level: (low/med) Low

Analysis Batch No.: 122246 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) | Lab Sample ID: 460-42919-1

Matrix: Solid | Lab File ID: x28788.d

Analysis Method: 8270C | Date Collected: 07/24/2012 11:00

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 08/01/2012 05:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	51	U	380	51
95-57-8	2-Chlorophenol	50	U	380	50
95-48-7	2-Methylphenol	65	U	380	65
106-44-5	4-Methylphenol	75	U	380	75
100-52-7	Benzaldehyde	45	UJ	380	45
98-86-2	Acetophenone	58	U	380	58
111-44-4	Bis(2-chloroethyl)ether	5.2	U	38	5.2
108-60-1	2,2'-oxybis[1-chloropropane]	42	U	380	42
621-64-7	N-Nitrosodi-n-propylamine	6.3	U	38	6.3
98-95-3	Nitrobenzene	5.4	U	38	5.4
67-72-1	Hexachloroethane	4.2	U	38	4.2
78-59-1	Isophorone	46	U	380	46
88-75-5	2-Nitrophenol	42	U	380	42
105-67-9	2,4-Dimethylphenol	93	U	380	93
120-83-2	2,4-Dichlorophenol	55	U	380	55
111-91-1	Bis(2-chloroethoxy)methane	49	U	380	49
91-20-3	Naphthalene	44	U	380	44
106-47-8	4-Chloroaniline	100	U	380	100
87-68-3	Hexachlorobutadiene	9.2	U	77	9.2
105-60-2	Caprolactam	87	U	380	87
59-50-7	4-Chloro-3-methylphenol	57	U	380	57
91-57-6	2-Methylnaphthalene	49	U	380	49
118-74-1	Hexachlorobenzene	5.2	U	38	5.2
77-47-4	Hexachlorocyclopentadiene	45	U	380	45
88-06-2	2,4,6-Trichlorophenol	44	U	380	44
95-95-4	2,4,5-Trichlorophenol	49	U	380	49
92-52-4	Diphenyl	51	U	380	51
91-58-7	2-Chloronaphthalene	42	U	380	42
88-74-4	2-Nitroaniline	160	U	770	160
606-20-2	2,6-Dinitrotoluene	11	U	77	11
131-11-3	Dimethyl phthalate	45	U	380	45
208-96-8	Acenaphthylene	45	U	380	45
99-09-2	3-Nitroaniline	130	U	770	130
83-32-9	Acenaphthene	55	U	380	55

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) | Lab Sample ID: 460-42919-1

Matrix: Solid | Lab File ID: x28788.d

Analysis Method: 8270C | Date Collected: 07/24/2012 11:00

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 08/01/2012 05:45

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	240	U	1100	240
51-28-5	2,4-Dinitrophenol	220	U	1100	220
132-64-9	Dibenzofuran	44	U	380	44
84-66-2	Diethyl phthalate	45	U	380	45
86-73-7	Fluorene	48	U	380	48
206-44-0	Fluoranthene	50	U	380	50
84-74-2	Di-n-butyl phthalate	47	U	380	47
121-14-2	2,4-Dinitrotoluene	12	U	77	12
7005-72-3	4-Chlorophenyl phenyl ether	44	U	380	44
100-01-6	4-Nitroaniline	120	UJ	770	120
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1100	100
101-55-3	4-Bromophenyl phenyl ether	38	U	380	38
1912-24-9	Atrazine	59	U	380	59
120-12-7	Anthracene	46	U	380	46
86-74-8	Carbazole	45	U	380	45
85-01-8	Phenanthrene	48	U	380	48
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	32	U	380	32
218-01-9	Chrysene	44	U	380	44
207-08-9	Benzo[k]fluoranthene	2.9	U	38	2.9
191-24-2	Benzo[g,h,i]perylene	28	U	380	28
205-99-2	Benzo[b]fluoranthene	2.4	U	38	2.4
50-32-8	Benzo[a]pyrene	2.7	U	38	2.7
56-55-3	Benzo[a]anthracene	2.6	U	38	2.6
86-30-6	N-Nitrosodiphenylamine	37	U	380	37
85-68-7	Butyl benzyl phthalate	35	U	380	35
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	380	130
117-84-0	Di-n-octyl phthalate	24	U	380	24
193-39-5	Indeno[1,2,3-cd]pyrene	7.0	U	38	7.0
53-70-3	Dibenz(a,h)anthracene	4.8	U	38	4.8
91-94-1	3,3'-Dichlorobenzidine	130	U	770	130
95-94-3	1,2,4,5-Tetrachlorobenzene	51	U	380	51
58-90-2	2,3,4,6-Tetrachlorophenol	49	U	380	49

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (92-93) Lab Sample ID: 460-42919-1

Matrix: Solid Lab File ID: x28788.d

Analysis Method: 8270C Date Collected: 07/24/2012 11:00

Extract. Method: 3541 Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) Date Analyzed: 08/01/2012 05:45

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 12.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 Units: ug/Kg

Number TICs Found: 2 TIC Result Total: 1130

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	9.52	680	J
80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	9.77	450	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) | Lab Sample ID: 460-42919-2

Matrix: Solid | Lab File ID: x28789.d

Analysis Method: 8270C | Date Collected: 07/24/2012 11:30

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 08/01/2012 06:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	51	U	380	51
95-57-8	2-Chlorophenol	50	U	380	50
95-48-7	2-Methylphenol	64	U	380	64
106-44-5	4-Methylphenol	74	U	380	74
100-52-7	Benzaldehyde	44	UJ	380	44
98-86-2	Acetophenone	58	U	380	58
111-44-4	Bis(2-chloroethyl)ether	5.2	U	38	5.2
108-60-1	2,2'-oxybis[1-chloropropane]	42	U	380	42
621-64-7	N-Nitrosodi-n-propylamine	6.3	U	38	6.3
98-95-3	Nitrobenzene	5.4	U	38	5.4
67-72-1	Hexachloroethane	4.2	U	38	4.2
78-59-1	Isophorone	46	U	380	46
88-75-5	2-Nitrophenol	42	U	380	42
105-67-9	2,4-Dimethylphenol	93	U	380	93
120-83-2	2,4-Dichlorophenol	55	U	380	55
111-91-1	Bis(2-chloroethoxy)methane	49	U	380	49
91-20-3	Naphthalene	44	U	380	44
106-47-8	4-Chloroaniline	100	U	380	100
87-68-3	Hexachlorobutadiene	9.2	U	77	9.2
105-60-2	Caprolactam	87	U	380	87
59-50-7	4-Chloro-3-methylphenol	57	U	380	57
91-57-6	2-Methylnaphthalene	49	U	380	49
118-74-1	Hexachlorobenzene	5.2	U	38	5.2
77-47-4	Hexachlorocyclopentadiene	44	U	380	44
88-06-2	2,4,6-Trichlorophenol	44	U	380	44
95-95-4	2,4,5-Trichlorophenol	49	U	380	49
92-52-4	Diphenyl	51	U	380	51
91-58-7	2-Chloronaphthalene	42	U	380	42
88-74-4	2-Nitroaniline	160	U	770	160
606-20-2	2,6-Dinitrotoluene	11	U	77	11
131-11-3	Dimethyl phthalate	45	U	380	45
208-96-8	Acenaphthylene	45	U	380	45
99-09-2	3-Nitroaniline	130	U	770	130
83-32-9	Acenaphthene	55	U	380	55

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) | Lab Sample ID: 460-42919-2

Matrix: Solid | Lab File ID: x28789.d

Analysis Method: 8270C | Date Collected: 07/24/2012 11:30

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) | Date Analyzed: 08/01/2012 06:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	240	U	1100	240
51-28-5	2,4-Dinitrophenol	210	U	1100	210
132-64-9	Dibenzofuran	44	U	380	44
84-66-2	Diethyl phthalate	45	U	380	45
86-73-7	Fluorene	48	U	380	48
206-44-0	Fluoranthene	50	U	380	50
84-74-2	Di-n-butyl phthalate	47	U	380	47
121-14-2	2,4-Dinitrotoluene	12	U	77	12
7005-72-3	4-Chlorophenyl phenyl ether	44	U	380	44
100-01-6	4-Nitroaniline	120	UJ	770	120
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1100	100
101-55-3	4-Bromophenyl phenyl ether	37	U	380	37
1912-24-9	Atrazine	58	U	380	58
120-12-7	Anthracene	46	U	380	46
86-74-8	Carbazole	45	U	380	45
85-01-8	Phenanthrene	48	U	380	48
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	32	U	380	32
218-01-9	Chrysene	44	U	380	44
207-08-9	Benzo[k]fluoranthene	2.9	U	38	2.9
191-24-2	Benzo[g,h,i]perylene	28	U	380	28
205-99-2	Benzo[b]fluoranthene	2.4	U	38	2.4
50-32-8	Benzo[a]pyrene	2.7	U	38	2.7
56-55-3	Benzo[a]anthracene	2.6	U	38	2.6
86-30-6	N-Nitrosodiphenylamine	37	U	380	37
85-68-7	Butyl benzyl phthalate	35	U	380	35
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	380	130
117-84-0	Di-n-octyl phthalate	24	U	380	24
193-39-5	Indeno[1,2,3-cd]pyrene	7.0	U	38	7.0
53-70-3	Dibenz(a,h)anthracene	4.8	U	38	4.8
91-94-1	3,3'-Dichlorobenzidine	130	U	770	130
95-94-3	1,2,4,5-Tetrachlorobenzene	51	U	380	51
58-90-2	2,3,4,6-Tetrachlorophenol	49	U	380	49

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-25 (103-105) Lab Sample ID: 460-42919-2

Matrix: Solid Lab File ID: x28789.d

Analysis Method: 8270C Date Collected: 07/24/2012 11:30

Extract. Method: 3541 Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.02(g) Date Analyzed: 08/01/2012 06:09

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 12.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) | Lab Sample ID: 460-42919-3

Matrix: Solid | Lab File ID: x28790.d

Analysis Method: 8270C | Date Collected: 07/25/2012 16:00

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.04(g) | Date Analyzed: 08/01/2012 06:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	51	U	380	51
95-57-8	2-Chlorophenol	50	U	380	50
95-48-7	2-Methylphenol	65	U	380	65
106-44-5	4-Methylphenol	75	U	380	75
100-52-7	Benzaldehyde	45	UJ	380	45
98-86-2	Acetophenone	59	U	380	59
111-44-4	Bis(2-chloroethyl)ether	5.2	U	38	5.2
108-60-1	2,2'-oxybis[1-chloropropane]	42	U	380	42
621-64-7	N-Nitrosodi-n-propylamine	6.4	U	38	6.4
98-95-3	Nitrobenzene	5.4	U	38	5.4
67-72-1	Hexachloroethane	4.3	U	38	4.3
78-59-1	Isophorone	46	U	380	46
88-75-5	2-Nitrophenol	43	U	380	43
105-67-9	2,4-Dimethylphenol	95	U	380	95
120-83-2	2,4-Dichlorophenol	56	U	380	56
111-91-1	Bis(2-chloroethoxy)methane	50	U	380	50
91-20-3	Naphthalene	47	J	380	44
106-47-8	4-Chloroaniline	100	U	380	100
87-68-3	Hexachlorobutadiene	9.4	U	78	9.4
105-60-2	Caprolactam	88	U	380	88
59-50-7	4-Chloro-3-methylphenol	58	U	380	58
91-57-6	2-Methylnaphthalene	49	U	380	49
118-74-1	Hexachlorobenzene	5.2	U	38	5.2
77-47-4	Hexachlorocyclopentadiene	45	U	380	45
88-06-2	2,4,6-Trichlorophenol	45	U	380	45
95-95-4	2,4,5-Trichlorophenol	50	U	380	50
92-52-4	Diphenyl	51	U	380	51
91-58-7	2-Chloronaphthalene	43	U	380	43
88-74-4	2-Nitroaniline	160	U	780	160
606-20-2	2,6-Dinitrotoluene	12	U	78	12
131-11-3	Dimethyl phthalate	45	U	380	45
208-96-8	Acenaphthylene	45	U	380	45
99-09-2	3-Nitroaniline	140	U	780	140
83-32-9	Acenaphthene	56	U	380	56

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) | Lab Sample ID: 460-42919-3

Matrix: Solid | Lab File ID: x28790.d

Analysis Method: 8270C | Date Collected: 07/25/2012 16:00

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.04(g) | Date Analyzed: 08/01/2012 06:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	250	U	1200	250
51-28-5	2,4-Dinitrophenol	220	U	1200	220
132-64-9	Dibenzofuran	45	U	380	45
84-66-2	Diethyl phthalate	46	U	380	46
86-73-7	Fluorene	49	U	380	49
206-44-0	Fluoranthene	51	U	380	51
84-74-2	Di-n-butyl phthalate	47	U	380	47
121-14-2	2,4-Dinitrotoluene	13	U	78	13
7005-72-3	4-Chlorophenyl phenyl ether	45	U	380	45
100-01-6	4-Nitroaniline	120	UJ	780	120
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1200	100
101-55-3	4-Bromophenyl phenyl ether	38	U	380	38
1912-24-9	Atrazine	59	U	380	59
120-12-7	Anthracene	47	U	380	47
86-74-8	Carbazole	45	U	380	45
85-01-8	Phenanthrene	49	U	380	49
87-86-5	Pentachlorophenol	110	U	1200	110
129-00-0	Pyrene	32	U	380	32
218-01-9	Chrysene	45	U	380	45
207-08-9	Benzo[k]fluoranthene	2.9	U	38	2.9
191-24-2	Benzo[g,h,i]perylene	28	U	380	28
205-99-2	Benzo[b]fluoranthene	2.4	U	38	2.4
50-32-8	Benzo[a]pyrene	2.7	U	38	2.7
56-55-3	Benzo[a]anthracene	2.7	U	38	2.7
86-30-6	N-Nitrosodiphenylamine	38	U	380	38
85-68-7	Butyl benzyl phthalate	35	U	380	35
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	380	130
117-84-0	Di-n-octyl phthalate	24	U	380	24
193-39-5	Indeno[1,2,3-cd]pyrene	7.1	U	38	7.1
53-70-3	Dibenz(a,h)anthracene	4.8	U	38	4.8
91-94-1	3,3'-Dichlorobenzidine	130	U	780	130
95-94-3	1,2,4,5-Tetrachlorobenzene	52	U	380	52
58-90-2	2,3,4,6-Tetrachlorophenol	50	U	380	50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (75-80) | Lab Sample ID: 460-42919-3

Matrix: Solid | Lab File ID: x28790.d

Analysis Method: 8270C | Date Collected: 07/25/2012 16:00

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.04(g) | Date Analyzed: 08/01/2012 06:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) | Lab Sample ID: 460-42919-4

Matrix: Solid | Lab File ID: x28791.d

Analysis Method: 8270C | Date Collected: 07/26/2012 08:30

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.01(g) | Date Analyzed: 08/01/2012 06:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	51	U	380	51
95-57-8	2-Chlorophenol	50	U	380	50
95-48-7	2-Methylphenol	65	U	380	65
106-44-5	4-Methylphenol	75	U	380	75
100-52-7	Benzaldehyde	45	UJ	380	45
98-86-2	Acetophenone	59	U	380	59
111-44-4	Bis(2-chloroethyl)ether	5.2	U	38	5.2
108-60-1	2,2'-oxybis[1-chloropropane]	42	U	380	42
621-64-7	N-Nitrosodi-n-propylamine	6.4	U	38	6.4
98-95-3	Nitrobenzene	5.4	U	38	5.4
67-72-1	Hexachloroethane	4.2	U	38	4.2
78-59-1	Isophorone	46	U	380	46
88-75-5	2-Nitrophenol	43	U	380	43
105-67-9	2,4-Dimethylphenol	94	U	380	94
120-83-2	2,4-Dichlorophenol	56	U	380	56
111-91-1	Bis(2-chloroethoxy)methane	49	U	380	49
91-20-3	Naphthalene	44	U	380	44
106-47-8	4-Chloroaniline	100	U	380	100
87-68-3	Hexachlorobutadiene	9.3	U	77	9.3
105-60-2	Caprolactam	88	U	380	88
59-50-7	4-Chloro-3-methylphenol	58	U	380	58
91-57-6	2-Methylnaphthalene	49	U	380	49
118-74-1	Hexachlorobenzene	5.2	U	38	5.2
77-47-4	Hexachlorocyclopentadiene	45	U	380	45
88-06-2	2,4,6-Trichlorophenol	45	U	380	45
95-95-4	2,4,5-Trichlorophenol	49	U	380	49
92-52-4	Diphenyl	51	U	380	51
91-58-7	2-Chloronaphthalene	43	U	380	43
88-74-4	2-Nitroaniline	160	U	770	160
606-20-2	2,6-Dinitrotoluene	11	U	77	11
131-11-3	Dimethyl phthalate	45	U	380	45
208-96-8	Acenaphthylene	45	U	380	45
99-09-2	3-Nitroaniline	130	U	770	130
83-32-9	Acenaphthene	56	U	380	56

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) | Lab Sample ID: 460-42919-4

Matrix: Solid | Lab File ID: x28791.d

Analysis Method: 8270C | Date Collected: 07/26/2012 08:30

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.01(g) | Date Analyzed: 08/01/2012 06:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	250	U	1200	250
51-28-5	2,4-Dinitrophenol	220	U	1200	220
132-64-9	Dibenzofuran	45	U	380	45
84-66-2	Diethyl phthalate	45	U	380	45
86-73-7	Fluorene	49	U	380	49
206-44-0	Fluoranthene	51	U	380	51
84-74-2	Di-n-butyl phthalate	47	U	380	47
121-14-2	2,4-Dinitrotoluene	13	U	77	13
7005-72-3	4-Chlorophenyl phenyl ether	45	U	380	45
100-01-6	4-Nitroaniline	120	U J	770	120
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1200	100
101-55-3	4-Bromophenyl phenyl ether	38	U	380	38
1912-24-9	Atrazine	59	U	380	59
120-12-7	Anthracene	46	U	380	46
86-74-8	Carbazole	45	U	380	45
85-01-8	Phenanthrene	49	U	380	49
87-86-5	Pentachlorophenol	110	U	1200	110
129-00-0	Pyrene	32	U	380	32
218-01-9	Chrysene	44	U	380	44
207-08-9	Benzo[k]fluoranthene	2.9	U	38	2.9
191-24-2	Benzo[g,h,i]perylene	28	U	380	28
205-99-2	Benzo[b]fluoranthene	2.4	U	38	2.4
50-32-8	Benzo[a]pyrene	2.7	U	38	2.7
56-55-3	Benzo[a]anthracene	2.7	U	38	2.7
86-30-6	N-Nitrosodiphenylamine	38	U	380	38
85-68-7	Butyl benzyl phthalate	35	U	380	35
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	380	130
117-84-0	Di-n-octyl phthalate	24	U	380	24
193-39-5	Indeno[1,2,3-cd]pyrene	7.1	U	38	7.1
53-70-3	Dibenz(a,h)anthracene	4.8	U	38	4.8
91-94-1	3,3'-Dichlorobenzidine	130	U	770	130
95-94-3	1,2,4,5-Tetrachlorobenzene	51	U	380	51
58-90-2	2,3,4,6-Tetrachlorophenol	50	U	380	50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: SB-26 (88-90) | Lab Sample ID: 460-42919-4

Matrix: Solid | Lab File ID: x28791.d

Analysis Method: 8270C | Date Collected: 07/26/2012 08:30

Extract. Method: 3541 | Date Extracted: 07/31/2012 08:35

Sample wt/vol: 15.01(g) | Date Analyzed: 08/01/2012 06:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 122155 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A | Lab Sample ID: 460-43466-1

Matrix: Water | Lab File ID: k03380.d

Analysis Method: 8260B | Date Collected: 08/11/2012 15:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.68	J	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.50	J	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	1.7		1.0	0.18
67-66-3	Chloroform	0.080	U	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	UJ	1.0	0.060
71-43-2	Benzene	0.13	J	1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.080	U	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.14	U	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	UJ	50	36
79-01-6	Trichloroethene	1.2		1.0	0.090
108-88-3	Toluene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A Lab Sample ID: 460-43466-1

Matrix: Water Lab File ID: k03380.d

Analysis Method: 8260B Date Collected: 08/11/2012 15:45

Sample wt/vol: 5(mL) Date Analyzed: 08/15/2012 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 124105 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	0.76	J	1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
460-00-4	Bromofluorobenzene	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A Lab Sample ID: 460-43466-1

Matrix: Water Lab File ID: k03380.d

Analysis Method: 8260B Date Collected: 08/11/2012 15:45

Sample wt/vol: 5(mL) Date Analyzed: 08/15/2012 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 124105 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: k03387.d

Analysis Method: 8260B | Date Collected: 08/11/2012 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:30

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	10	1.0
74-83-9	Bromomethane	1.8	U	10	1.8
75-01-4	Vinyl chloride	7.8	J	10	1.4
75-00-3	Chloroethane	1.7	U	10	1.7
75-09-2	Methylene Chloride	1.8	U	10	1.8
67-64-1	Acetone	27	U	50	27
75-15-0	Carbon disulfide	1.3	U	10	1.3
75-69-4	Trichlorofluoromethane	1.5	U	10	1.5
75-35-4	1,1-Dichloroethene	0.90	U	10	0.90
75-34-3	1,1-Dichloroethane	1.3	U	10	1.3
156-60-5	trans-1,2-Dichloroethene	6.2	J	10	1.3
156-59-2	cis-1,2-Dichloroethene	19		10	1.8
67-66-3	Chloroform	0.80	U	10	0.80
78-93-3	2-Butanone	23	U	50	23
107-06-2	1,2-Dichloroethane	1.9	U	10	1.9
71-55-6	1,1,1-Trichloroethane	0.60	U	10	0.60
56-23-5	Carbon tetrachloride	0.60	UJ	10	0.60
71-43-2	Benzene	210		10	0.80
75-25-2	Bromoform	1.9	U	10	1.9
100-42-5	Styrene	1.2	J	10	1.2
100-41-4	Ethylbenzene	870		10	1.0
108-90-7	Chlorobenzene	1.1	U	10	1.1
110-82-7	Cyclohexane	1.6	U	10	1.6
98-82-8	Isopropylbenzene	63		10	0.80
591-78-6	2-Hexanone	5.0	U	50	5.0
1634-04-4	MTBE	1.4	U	10	1.4
76-13-1	Freon TF	0.80	U	10	0.80
79-20-9	Methyl acetate	3.4	U	20	3.4
123-91-1	1,4-Dioxane	360	UJ	500	360
79-01-6	Trichloroethene	7.4	J	10	0.90
108-88-3	Toluene	12		10	1.5
10061-02-6	trans-1,3-Dichloropropene	2.4	U	10	2.4
108-10-1	4-Methyl-2-pentanone	9.9	U	50	9.9
10061-01-5	cis-1,3-Dichloropropene	1.8	U	10	1.8
95-50-1	1,2-Dichlorobenzene	2.1	U	10	2.1
541-73-1	1,3-Dichlorobenzene	1.4	U	10	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: k03387.d

Analysis Method: 8260B | Date Collected: 08/11/2012 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:30

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	2.3	U	10	2.3
120-82-1	1,2,4-Trichlorobenzene	3.4	U	10	3.4
87-61-6	1,2,3-Trichlorobenzene	5.1	U	10	5.1
78-87-5	1,2-Dichloropropane	0.90	U	10	0.90
108-87-2	Methylcyclohexane	2.0	J	10	1.4
127-18-4	Tetrachloroethene	1.0	U	10	1.0
1330-20-7	Xylenes, Total	30		30	3.6
96-12-8	1,2-Dibromo-3-Chloropropane	4.0	U	10	4.0
79-34-5	1,1,2,2-Tetrachloroethane	1.6	U	10	1.6
79-00-5	1,1,2-Trichloroethane	1.9	U	10	1.9
124-48-1	Dibromochloromethane	2.0	U	10	2.0
106-93-4	1,2-Dibromoethane	2.8	U	10	2.8
75-71-8	Dichlorodifluoromethane	2.2	U	10	2.2
74-97-5	Bromochloromethane	2.7	U	10	2.7
75-27-4	Bromodichloromethane	1.2	U	10	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
460-00-4	Bromofluorobenzene	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: k03387.d

Analysis Method: 8260B | Date Collected: 08/11/2012 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:30

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

Number TICs Found: 9 | TIC Result Total: 1273

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Ethylmethylbenzene isomer	10.61	100	J
95-63-6	1,2,4-Trimethylbenzene	10.74	160	
	Trimethylbenzene isomer	11.03	110	J
496-11-7	Indane	11.17	280	J N
95-13-6	Indene	11.31	71	J N
	C10H12 Aromatic	11.51	62	J
2177-47-1	2-Methylindene	12.09	140	J N
91-20-3	Naphthalene	12.40	130	
	Methylnaphthalene isomer	13.38	220	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C | Lab Sample ID: 460-43466-3

Matrix: Water | Lab File ID: k03401.d

Analysis Method: 8260B | Date Collected: 08/11/2012 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/16/2012 00:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.50	UJ	5.0	0.50
74-83-9	Bromomethane	0.90	U	5.0	0.90
75-01-4	Vinyl chloride	0.94	J	5.0	0.70
75-00-3	Chloroethane	0.85	U	5.0	0.85
75-09-2	Methylene Chloride	0.90	U	5.0	0.90
67-64-1	Acetone	13	U	25	13
75-15-0	Carbon disulfide	0.65	U	5.0	0.65
75-69-4	Trichlorofluoromethane	0.75	U	5.0	0.75
75-35-4	1,1-Dichloroethene	0.45	U	5.0	0.45
75-34-3	1,1-Dichloroethane	0.65	U	5.0	0.65
156-60-5	trans-1,2-Dichloroethene	1.5	J	5.0	0.65
156-59-2	cis-1,2-Dichloroethene	14		5.0	0.90
67-66-3	Chloroform	0.40	U	5.0	0.40
78-93-3	2-Butanone	12	U	25	12
107-06-2	1,2-Dichloroethane	5.4		5.0	0.95
71-55-6	1,1,1-Trichloroethane	0.30	U	5.0	0.30
56-23-5	Carbon tetrachloride	0.30	U	5.0	0.30
71-43-2	Benzene	960		5.0	0.40
75-25-2	Bromoform	0.95	U	5.0	0.95
100-42-5	Styrene	260		5.0	0.60
100-41-4	Ethylbenzene	920		5.0	0.50
108-90-7	Chlorobenzene	0.55	U	5.0	0.55
110-82-7	Cyclohexane	0.80	U	5.0	0.80
98-82-8	Isopropylbenzene	76		5.0	0.40
591-78-6	2-Hexanone	2.5	U	25	2.5
1634-04-4	MTBE	0.70	U	5.0	0.70
76-13-1	Freon TF	0.40	U	5.0	0.40
79-20-9	Methyl acetate	1.7	U	10	1.7
123-91-1	1,4-Dioxane	180	U	250	180
79-01-6	Trichloroethene	76		5.0	0.45
108-88-3	Toluene	1300		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	1.2	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	25	5.0
10061-01-5	cis-1,3-Dichloropropene	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	1.1	U	5.0	1.1
541-73-1	1,3-Dichlorobenzene	0.70	U	5.0	0.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C | Lab Sample ID: 460-43466-3

Matrix: Water | Lab File ID: k03401.d

Analysis Method: 8260B | Date Collected: 08/11/2012 16:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/16/2012 00:15

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	1.2	U	5.0	1.2
120-82-1	1,2,4-Trichlorobenzene	1.7	U	5.0	1.7
87-61-6	1,2,3-Trichlorobenzene	2.6	U	5.0	2.6
78-87-5	1,2-Dichloropropane	0.45	U	5.0	0.45
108-87-2	Methylcyclohexane	0.70	U	5.0	0.70
127-18-4	Tetrachloroethene	0.64	J	5.0	0.50
1330-20-7	Xylenes, Total	1000		15	1.8
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	UJ	5.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	5.0	0.80
79-00-5	1,1,2-Trichloroethane	0.95	U	5.0	0.95
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0
106-93-4	1,2-Dibromoethane	1.4	U	5.0	1.4
75-71-8	Dichlorodifluoromethane	1.1	U	5.0	1.1
74-97-5	Bromochloromethane	1.4	U	5.0	1.4
75-27-4	Bromodichloromethane	0.60	U	5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C Lab Sample ID: 460-43466-3

Matrix: Water Lab File ID: k03401.d

Analysis Method: 8260B Date Collected: 08/11/2012 16:00

Sample wt/vol: 5(mL) Date Analyzed: 08/16/2012 00:15

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 124213 Units: ug/L

Number TICs Found: 10 TIC Result Total: 8750

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Ethylmethylbenzene isomer	10.41	320	J
95-63-6	1,2,4-Trimethylbenzene	10.74	330	
	Unknown Aromatic	10.80	310	J
	Trimethylbenzene isomer-1	11.03	220	J
496-11-7	Indane	11.17	290	J N
95-13-6	Indene	11.31	2200	J N
	Unknown Aromatic-1	12.02	230	J
2177-47-1	2-Methylindene	12.09	350	J N
91-20-3	Naphthalene	12.40	3800	E
90-12-0	Naphthalene, 1-methyl-	13.37	700	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: k03386.d

Analysis Method: 8260B | Date Collected: 08/11/2012 17:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.18	U	1.0	0.18
67-66-3	Chloroform	0.64	J	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	UJ	1.0	0.060
71-43-2	Benzene	0.40	J	1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.080	U	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.14	U	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	UJ	50	36
79-01-6	Trichloroethene	0.090	U	1.0	0.090
108-88-3	Toluene	1.2		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: k03386.d

Analysis Method: 8260B | Date Collected: 08/11/2012 17:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130
460-00-4	Bromofluorobenzene	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: k03386.d

Analysis Method: 8260B | Date Collected: 08/11/2012 17:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/15/2012 18:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 124105 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A | Lab Sample ID: 460-43466-1

Matrix: Water | Lab File ID: x29330.d

Analysis Method: 8270C | Date Collected: 08/11/2012 15:45

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:20

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.81	U	10	0.81
95-57-8	2-Chlorophenol	2.2	U	10	2.2
95-48-7	2-Methylphenol	1.8	U	10	1.8
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.0	UJ	10	2.0
98-86-2	Acetophenone	2.7	U	10	2.7
111-44-4	Bis(2-chloroethyl)ether	0.28	U	1.0	0.28
108-60-1	2,2'-oxybis[1-chloropropane]	2.0	U	10	2.0
621-64-7	N-Nitrosodi-n-propylamine	0.25	U	1.0	0.25
98-95-3	Nitrobenzene	0.30	U	1.0	0.30
67-72-1	Hexachloroethane	0.25	U	1.0	0.25
78-59-1	Isophorone	2.7	UJ	10	2.7
88-75-5	2-Nitrophenol	2.4	U	10	2.4
105-67-9	2,4-Dimethylphenol	3.4	U	10	3.4
120-83-2	2,4-Dichlorophenol	2.6	U	10	2.6
111-91-1	Bis(2-chloroethoxy)methane	2.6	U	10	2.6
91-20-3	Naphthalene	2.7	U	10	2.7
106-47-8	4-Chloroaniline	2.0	U	10	2.0
87-68-3	Hexachlorobutadiene	0.57	U	2.0	0.57
105-60-2	Caprolactam	2.5	U	10	2.5
59-50-7	4-Chloro-3-methylphenol	2.5	U	10	2.5
91-57-6	2-Methylnaphthalene	3.0	U	10	3.0
118-74-1	Hexachlorobenzene	0.29	U	1.0	0.29
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
88-06-2	2,4,6-Trichlorophenol	2.4	U	10	2.4
95-95-4	2,4,5-Trichlorophenol	2.6	U	10	2.6
92-52-4	Diphenyl	2.8	U	10	2.8
91-58-7	2-Chloronaphthalene	2.7	U	10	2.7
88-74-4	2-Nitroaniline	4.9	U	20	4.9
606-20-2	2,6-Dinitrotoluene	0.61	U	2.0	0.61
131-11-3	Dimethyl phthalate	2.8	U	10	2.8
208-96-8	Acenaphthylene	2.7	U	10	2.7
99-09-2	3-Nitroaniline	5.0	U	20	5.0
83-32-9	Acenaphthene	2.7	U	10	2.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A | Lab Sample ID: 460-43466-1

Matrix: Water | Lab File ID: x29330.d

Analysis Method: 8270C | Date Collected: 08/11/2012 15:45

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:20

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.7	U	30	6.7
51-28-5	2,4-Dinitrophenol	5.4	U	30	5.4
132-64-9	Dibenzofuran	2.8	U	10	2.8
84-66-2	Diethyl phthalate	2.9	U	10	2.9
86-73-7	Fluorene	2.8	U	10	2.8
206-44-0	Fluoranthene	3.2	U	10	3.2
84-74-2	Di-n-butyl phthalate	2.9	U	10	2.9
121-14-2	2,4-Dinitrotoluene	0.47	U	2.0	0.47
7005-72-3	4-Chlorophenyl phenyl ether	2.5	U	10	2.5
100-01-6	4-Nitroaniline	5.8	U	20	5.8
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U	30	4.7
101-55-3	4-Bromophenyl phenyl ether	2.5	U	10	2.5
1912-24-9	Atrazine	3.0	UJ	10	3.0
120-12-7	Anthracene	2.8	U	10	2.8
86-74-8	Carbazole	3.2	U	10	3.2
85-01-8	Phenanthrene	3.1	U	10	3.1
87-86-5	Pentachlorophenol	5.3	U	30	5.3
129-00-0	Pyrene	2.9	U	10	2.9
218-01-9	Chrysene	3.1	U	10	3.1
207-08-9	Benzo[k]fluoranthene	0.26	U	1.0	0.26
191-24-2	Benzo[g,h,i]perylene	2.0	U	10	2.0
205-99-2	Benzo[b]fluoranthene	0.26	U	1.0	0.26
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.27	U	1.0	0.27
86-30-6	N-Nitrosodiphenylamine	2.9	U	10	2.9
85-68-7	Butyl benzyl phthalate	2.5	U	10	2.5
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	10	2.0
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
91-94-1	3,3'-Dichlorobenzidine	4.9	U	20	4.9
95-94-3	1,2,4,5-Tetrachlorobenzene	2.6	U	10	2.6
58-90-2	2,3,4,6-Tetrachlorophenol	2.5	U	10	2.5

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8A | Lab Sample ID: 460-43466-1

Matrix: Water | Lab File ID: x29330.d

Analysis Method: 8270C | Date Collected: 08/11/2012 15:45

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:20

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: x29331.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:30

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:42

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.81	U	10	0.81
95-57-8	2-Chlorophenol	2.2	U	10	2.2
95-48-7	2-Methylphenol	1.8	U	10	1.8
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.0	UJ	10	2.0
98-86-2	Acetophenone	2.7	U	10	2.7
111-44-4	Bis(2-chloroethyl)ether	0.28	U	1.0	0.28
108-60-1	2,2'-oxybis[1-chloropropane]	2.0	U	10	2.0
621-64-7	N-Nitrosodi-n-propylamine	0.25	U	1.0	0.25
98-95-3	Nitrobenzene	0.30	U	1.0	0.30
67-72-1	Hexachloroethane	0.25	U	1.0	0.25
78-59-1	Isophorone	2.7	UJ	10	2.7
88-75-5	2-Nitrophenol	2.4	U	10	2.4
105-67-9	2,4-Dimethylphenol	3.4	U	10	3.4
120-83-2	2,4-Dichlorophenol	2.6	U	10	2.6
111-91-1	Bis(2-chloroethoxy)methane	2.6	U	10	2.6
91-20-3	Naphthalene	160		10	2.7
106-47-8	4-Chloroaniline	2.0	U	10	2.0
87-68-3	Hexachlorobutadiene	0.57	U	2.0	0.57
105-60-2	Caprolactam	2.5	U	10	2.5
59-50-7	4-Chloro-3-methylphenol	2.5	U	10	2.5
91-57-6	2-Methylnaphthalene	3.0	U	10	3.0
118-74-1	Hexachlorobenzene	0.29	U	1.0	0.29
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
88-06-2	2,4,6-Trichlorophenol	2.4	U	10	2.4
95-95-4	2,4,5-Trichlorophenol	2.6	U	10	2.6
92-52-4	Diphenyl	4.0	J	10	2.8
91-58-7	2-Chloronaphthalene	2.7	U	10	2.7
88-74-4	2-Nitroaniline	4.9	U	20	4.9
606-20-2	2,6-Dinitrotoluene	0.61	U	2.0	0.61
131-11-3	Dimethyl phthalate	2.8	U	10	2.8
208-96-8	Acenaphthylene	2.7	U	10	2.7
99-09-2	3-Nitroaniline	5.0	U	20	5.0
83-32-9	Acenaphthene	190		10	2.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: x29331.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:30

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:42

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.7	U	30	6.7
51-28-5	2,4-Dinitrophenol	5.4	U	30	5.4
132-64-9	Dibenzofuran	8.6	J	10	2.8
84-66-2	Diethyl phthalate	2.9	U	10	2.9
86-73-7	Fluorene	45		10	2.8
206-44-0	Fluoranthene	3.2	U	10	3.2
84-74-2	Di-n-butyl phthalate	2.9	U	10	2.9
121-14-2	2,4-Dinitrotoluene	0.47	U	2.0	0.47
7005-72-3	4-Chlorophenyl phenyl ether	2.5	U	10	2.5
100-01-6	4-Nitroaniline	5.8	U	20	5.8
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U	30	4.7
101-55-3	4-Bromophenyl phenyl ether	2.5	U	10	2.5
1912-24-9	Atrazine	3.0	UJ	10	3.0
120-12-7	Anthracene	9.2	J	10	2.8
86-74-8	Carbazole	10		10	3.2
85-01-8	Phenanthrene	46		10	3.1
87-86-5	Pentachlorophenol	5.3	U	30	5.3
129-00-0	Pyrene	2.9	U	10	2.9
218-01-9	Chrysene	3.1	U	10	3.1
207-08-9	Benzo[k]fluoranthene	0.26	U	1.0	0.26
191-24-2	Benzo[g,h,i]perylene	2.0	U	10	2.0
205-99-2	Benzo[b]fluoranthene	0.26	U	1.0	0.26
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.27	U	1.0	0.27
86-30-6	N-Nitrosodiphenylamine	2.9	U	10	2.9
85-68-7	Butyl benzyl phthalate	2.5	U	10	2.5
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	10	2.0
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
91-94-1	3,3'-Dichlorobenzidine	4.9	U	20	4.9
95-94-3	1,2,4,5-Tetrachlorobenzene	2.6	U	10	2.6
58-90-2	2,3,4,6-Tetrachlorophenol	2.5	U	10	2.5

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8B | Lab Sample ID: 460-43466-2

Matrix: Water | Lab File ID: x29331.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:30

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 16:42

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

Number TICs Found: 20 | TIC Result Total: 2793

CAS NO.	COMPOUND NAME	RT	RESULT	Q
100-41-4	Ethylbenzene	2.17	770	J N
	Ethylmethylbenzene isomer-1	2.68	100	J
103-65-1	Benzene, propyl-	2.94	57	J N
	Ethylmethylbenzene isomer-2	3.16	120	J
	Trimethylbenzene isomer-1	3.31	240	J
	Trimethylbenzene isomer-2	3.54	140	J
496-11-7	Indane	3.66	240	J N
95-13-6	Indene	3.74	94	J N
	Tetramethylbenzene isomer-1	4.30	26	J
	C10H12 Aromatic	4.45	46	J
	Tetramethylbenzene isomer-1	4.53	64	J
	C10H10 Aromatic	4.57	110	J
95-15-8	Benzo[b]thiophene	4.84	74	J N
1195-14-8	Methylbenzo[b]thiophene isomer	5.44	32	J N
90-12-0	1-Methylnaphthalene	5.60	450	E
	Unknown Alkyl Substituted Benzene-1	6.02	26	J
	Dimethylnaphthalene isomer-1	6.12	56	J
575-41-7	1,3-Dimethylnaphthalene	6.20	81	
	Unknown-2	6.21	27	J
	Dimethylnaphthalene isomer-2	6.30	40	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C | Lab Sample ID: 460-43466-3

Matrix: Water | Lab File ID: x29332.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:00

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.81	U	10	0.81
95-57-8	2-Chlorophenol	2.2	U	10	2.2
95-48-7	2-Methylphenol	1.8	U	10	1.8
106-44-5	4-Methylphenol	1.8	J	10	1.6
100-52-7	Benzaldehyde	2.0	UJ	10	2.0
98-86-2	Acetophenone	2.7	U	10	2.7
111-44-4	Bis(2-chloroethyl)ether	0.28	U	1.0	0.28
108-60-1	2,2'-oxybis[1-chloropropane]	2.0	U	10	2.0
621-64-7	N-Nitrosodi-n-propylamine	0.25	U	1.0	0.25
98-95-3	Nitrobenzene	0.30	U	1.0	0.30
67-72-1	Hexachloroethane	0.25	U	1.0	0.25
78-59-1	Isophorone	2.7	UJ	10	2.7
88-75-5	2-Nitrophenol	2.4	U	10	2.4
105-67-9	2,4-Dimethylphenol	3.4	U	10	3.4
120-83-2	2,4-Dichlorophenol	2.6	U	10	2.6
111-91-1	Bis(2-chloroethoxy)methane	2.6	U	10	2.6
106-47-8	4-Chloroaniline	2.0	U	10	2.0
87-68-3	Hexachlorobutadiene	0.57	U	2.0	0.57
105-60-2	Caprolactam	2.5	U	10	2.5
59-50-7	4-Chloro-3-methylphenol	2.5	U	10	2.5
118-74-1	Hexachlorobenzene	0.29	U	1.0	0.29
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
88-06-2	2,4,6-Trichlorophenol	2.4	U	10	2.4
95-95-4	2,4,5-Trichlorophenol	2.6	U	10	2.6
92-52-4	Diphenyl	31		10	2.8
91-58-7	2-Chloronaphthalene	2.7	U	10	2.7
88-74-4	2-Nitroaniline	4.9	U	20	4.9
606-20-2	2,6-Dinitrotoluene	0.61	U	2.0	0.61
131-11-3	Dimethyl phthalate	2.8	U	10	2.8
208-96-8	Acenaphthylene	140		10	2.7
99-09-2	3-Nitroaniline	5.0	U	20	5.0
83-32-9	Acenaphthene	49		10	2.7
100-02-7	4-Nitrophenol	6.7	U	30	6.7
51-28-5	2,4-Dinitrophenol	5.4	U	30	5.4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C | Lab Sample ID: 460-43466-3

Matrix: Water | Lab File ID: x29332.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:00

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	4.9	J	10	2.8
84-66-2	Diethyl phthalate	2.9	U	10	2.9
86-73-7	Fluorene	32		10	2.8
206-44-0	Fluoranthene	3.2	U	10	3.2
84-74-2	Di-n-butyl phthalate	2.9	U	10	2.9
121-14-2	2,4-Dinitrotoluene	0.47	U	2.0	0.47
7005-72-3	4-Chlorophenyl phenyl ether	2.5	U	10	2.5
100-01-6	4-Nitroaniline	5.8	U	20	5.8
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U	30	4.7
101-55-3	4-Bromophenyl phenyl ether	2.5	U	10	2.5
1912-24-9	Atrazine	3.0	UJ	10	3.0
120-12-7	Anthracene	6.2	J	10	2.8
86-74-8	Carbazole	13		10	3.2
85-01-8	Phenanthrene	35		10	3.1
87-86-5	Pentachlorophenol	5.3	U	30	5.3
129-00-0	Pyrene	2.9	U	10	2.9
218-01-9	Chrysene	3.1	U	10	3.1
207-08-9	Benzo[k]fluoranthene	0.26	U	1.0	0.26
191-24-2	Benzo[g,h,i]perylene	2.0	U	10	2.0
205-99-2	Benzo[b]fluoranthene	0.26	U	1.0	0.26
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.41	J	1.0	0.27
86-30-6	N-Nitrosodiphenylamine	2.9	U	10	2.9
85-68-7	Butyl benzyl phthalate	2.5	U	10	2.5
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	10	2.0
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
91-94-1	3,3'-Dichlorobenzidine	4.9	U	20	4.9
95-94-3	1,2,4,5-Tetrachlorobenzene	2.6	U	10	2.6
58-90-2	2,3,4,6-Tetrachlorophenol	2.5	U	10	2.5

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C | Lab Sample ID: 460-43466-3

Matrix: Water | Lab File ID: x29332.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:00

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

Number TICs Found: 20 | TIC Result Total: 7676

CAS NO.	COMPOUND NAME	RT	RESULT	Q
108-88-3	Toluene	1.44	720	J N
100-41-4	Ethylbenzene	2.16	730	J N
	Xylene isomer-1	2.24	550	J
	Xylene isomer-2	2.43	680	J
	Ethylmethylbenzene isomer-1	2.68	90	J
	Ethylmethylbenzene isomer-2	3.01	140	J
	Ethylmethylbenzene isomer-3	3.04	200	J
	Trimethylbenzene isomer-1	3.08	92	J
	Ethylmethylbenzene isomer-4	3.17	140	J
	C9H10 Aromatic	3.32	640	J
	Trimethylbenzene isomer-2	3.54	200	J
	C10H12 Aromatic-1	3.59	90	J
496-11-7	Indane	3.67	170	J N
95-13-6	Indene	3.77	1500	J N
	Ethyldimethylbenzene isomer	4.04	180	J
	C10H12 Aromatic-2	4.12	64	J
	C10H10 Aromatic-1	4.54	460	J
	C10H10 Aromatic-2	4.58	450	J
95-15-8	Benzo[b]thiophene	4.87	110	J N
90-12-0	1-Methylnaphthalene	5.60	470	E

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C DL | Lab Sample ID: 460-43466-3 DL

Matrix: Water | Lab File ID: x29368.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:00

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/16/2012 07:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124258 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	3100	D	200	54
91-57-6	2-Methylnaphthalene	240	D	200	60

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	0	D	56-112
4165-62-2	Phenol-d5	0	D	10-48
1718-51-0	Terphenyl-d14	0	D	50-122
118-79-6	2,4,6-Tribromophenol	0	D	46-122
367-12-4	2-Fluorophenol	0	D	10-65
321-60-8	2-Fluorobiphenyl	0	D	53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: MW-8C DL | Lab Sample ID: 460-43466-3 DL

Matrix: Water | Lab File ID: x29368.d

Analysis Method: 8270C | Date Collected: 08/11/2012 16:00

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/16/2012 07:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124258 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: x29333.d

Analysis Method: 8270C | Date Collected: 08/11/2012 17:15

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.81	U	10	0.81
95-57-8	2-Chlorophenol	2.2	U	10	2.2
95-48-7	2-Methylphenol	1.8	U	10	1.8
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.0	UJ	10	2.0
98-86-2	Acetophenone	2.7	U	10	2.7
111-44-4	Bis(2-chloroethyl)ether	0.28	U	1.0	0.28
108-60-1	2,2'-oxybis[1-chloropropane]	2.0	U	10	2.0
621-64-7	N-Nitrosodi-n-propylamine	0.25	U	1.0	0.25
98-95-3	Nitrobenzene	0.30	U	1.0	0.30
67-72-1	Hexachloroethane	0.25	U	1.0	0.25
78-59-1	Isophorone	2.7	UJ	10	2.7
88-75-5	2-Nitrophenol	2.4	U	10	2.4
105-67-9	2,4-Dimethylphenol	3.4	U	10	3.4
120-83-2	2,4-Dichlorophenol	2.6	U	10	2.6
111-91-1	Bis(2-chloroethoxy)methane	2.6	U	10	2.6
91-20-3	Naphthalene	2.7	U	10	2.7
106-47-8	4-Chloroaniline	2.0	U	10	2.0
87-68-3	Hexachlorobutadiene	0.57	U	2.0	0.57
105-60-2	Caprolactam	2.5	U	10	2.5
59-50-7	4-Chloro-3-methylphenol	2.5	U	10	2.5
91-57-6	2-Methylnaphthalene	3.0	U	10	3.0
118-74-1	Hexachlorobenzene	0.29	U	1.0	0.29
77-47-4	Hexachlorocyclopentadiene	1.7	U	10	1.7
88-06-2	2,4,6-Trichlorophenol	2.4	U	10	2.4
95-95-4	2,4,5-Trichlorophenol	2.6	U	10	2.6
92-52-4	Diphenyl	2.8	U	10	2.8
91-58-7	2-Chloronaphthalene	2.7	U	10	2.7
88-74-4	2-Nitroaniline	4.9	U	20	4.9
606-20-2	2,6-Dinitrotoluene	0.61	U	2.0	0.61
131-11-3	Dimethyl phthalate	2.8	U	10	2.8
208-96-8	Acenaphthylene	2.7	U	10	2.7
99-09-2	3-Nitroaniline	5.0	U	20	5.0
83-32-9	Acenaphthene	2.7	U	10	2.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: x29333.d

Analysis Method: 8270C | Date Collected: 08/11/2012 17:15

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.7	U	30	6.7
51-28-5	2,4-Dinitrophenol	5.4	U	30	5.4
132-64-9	Dibenzofuran	2.8	U	10	2.8
84-66-2	Diethyl phthalate	2.9	U	10	2.9
86-73-7	Fluorene	2.8	U	10	2.8
206-44-0	Fluoranthene	3.2	U	10	3.2
84-74-2	Di-n-butyl phthalate	2.9	U	10	2.9
121-14-2	2,4-Dinitrotoluene	0.47	U	2.0	0.47
7005-72-3	4-Chlorophenyl phenyl ether	2.5	U	10	2.5
100-01-6	4-Nitroaniline	5.8	U	20	5.8
534-52-1	4,6-Dinitro-2-methylphenol	4.7	U	30	4.7
101-55-3	4-Bromophenyl phenyl ether	2.5	U	10	2.5
1912-24-9	Atrazine	3.0	UJ	10	3.0
120-12-7	Anthracene	2.8	U	10	2.8
86-74-8	Carbazole	3.2	U	10	3.2
85-01-8	Phenanthrene	3.1	U	10	3.1
87-86-5	Pentachlorophenol	5.3	U	30	5.3
129-00-0	Pyrene	2.9	U	10	2.9
218-01-9	Chrysene	3.1	U	10	3.1
207-08-9	Benzo[k]fluoranthene	0.26	U	1.0	0.26
191-24-2	Benzo[g,h,i]perylene	2.0	U	10	2.0
205-99-2	Benzo[b]fluoranthene	0.26	U	1.0	0.26
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.27	U	1.0	0.27
86-30-6	N-Nitrosodiphenylamine	2.9	U	10	2.9
85-68-7	Butyl benzyl phthalate	2.5	U	10	2.5
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	10	2.0
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.090	U	1.0	0.090
91-94-1	3,3'-Dichlorobenzidine	4.9	U	20	4.9
95-94-3	1,2,4,5-Tetrachlorobenzene	2.6	U	10	2.6
58-90-2	2,3,4,6-Tetrachlorophenol	2.5	U	10	2.5

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-43466-1

SDG No.:

Client Sample ID: SB-20J | Lab Sample ID: 460-43466-4

Matrix: Water | Lab File ID: x29333.d

Analysis Method: 8270C | Date Collected: 08/11/2012 17:15

Extract. Method: 3510C | Date Extracted: 08/14/2012 11:28

Sample wt/vol: 1000(mL) | Date Analyzed: 08/15/2012 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 124155 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 53

CAS NO.	COMPOUND NAME	RT	RESULT	Q
35953-53-8	2-Tetradecene, (E)-	5.96	53	J N

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-8A
Lab Sample ID: 460-43466-1
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 15:45
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.9	5.0	3.7	ug/L			1	6010B
7440-39-3	Barium	41.4	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	8.5	5.0	4.0	ug/L			1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-8B
Lab Sample ID: 460-43466-2
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:30
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	88.2	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-89-6	Iron	73.6	150	73.6	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-8B
Lab Sample ID: 460-43466-2
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:30
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	73.6	150	73.6	ug/L	U		1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-8C
Lab Sample ID: 460-43466-3
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:00
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	116	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-89-6	Iron	5120	150	73.6	ug/L			1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-8C
Lab Sample ID: 460-43466-3
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:00
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	73.6	150	73.6	ug/L	U		1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-20J
Lab Sample ID: 460-43466-4
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 17:15
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	5220	150	73.6	ug/L			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: SB-20J
Lab Sample ID: 460-43466-4
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 17:15
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	73.6	150	73.6	ug/L	U		1	6010B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-8A
Lab Sample ID: 460-43466-1
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 15:45
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.082	0.010	0.0014	mg/L			1	9012A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-8B
Lab Sample ID: 460-43466-2
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:30
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.069	0.010	0.0014	mg/L			1	9012A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-8C
Lab Sample ID: 460-43466-3
Lab Name: TestAmerica Edison
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 16:00
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.018	0.010	0.0014	mg/L			1	9012A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: SB-20J
Lab Sample ID: 460-43466-4
Lab Name: TestAmerica Pittsburgh
Job No.: 460-43466-1
SDG ID.:
Matrix: Water
Date Sampled: 08/11/2012 17:15
Reporting Basis: WET
Date Received: 08/13/2012 18:55

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Specific Conductance	453	1.00		umhos/cm			1	SM 2510B
	Salinity	2.0	2.0		No Unit	U		1	SM 2520B

Appendix C

Support Documentation

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S.WRIGHT	Site/Project Identification 60137862-310
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 20 EXCHANGE PLACE, 13TH FLOOR	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City MANHATTAN State NY 10005	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone 212-798-8549 Fax		Job No: 460-42456

Sample Identification	Date	Time	Matrix	No. of Cont.	8260B	8270C	Sample Numbers
SB-31 (33-35)	7-14-12	1100	SO	2	X	X	-1
SB-31 (38-40)	7-14-12	1130	SO	2	X	X	-2

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other _____, 7 = Other _____

Soil: 1 1

Water:

Special Instructions

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1)	AECOM	7-16-12	1)	TANYC
Relinquished by 2)	Company TANYC	Date / Time 7/16/12 17:10	Received by 2) Tony Meyers	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company 7/16/2012 17:10
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578)

1.7 #50

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-42456-1

Login Number: 42456
List Number: 1
Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7°C IR#50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: Lab Sample ID: LB3 460-120224/1-A

Matrix: Solid Lab File ID: k02327.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 07/18/2012 22:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120402 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	4.01		1.0	0.15
67-64-1	Acetone	5.10	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42456-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB3 460-120224/1-A

Matrix: Solid | Lab File ID: k02327.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/18/2012 22:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 120402 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
1330-20-7	Xylenes, Total	0.67	U	3.0	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
460-00-4	Bromofluorobenzene	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: Lab Sample ID: LB3 460-120224/1-A

Matrix: Solid Lab File ID: k02327.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 07/18/2012 22:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120402 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-120467/5

Matrix: Solid Lab File ID: k02357.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/19/2012 10:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120467 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.665	J	1.0	0.15
67-64-1	Acetone	1.7	U	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-120467/5

Matrix: Solid Lab File ID: k02357.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/19/2012 10:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120467 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
1330-20-7	Xylenes, Total	0.67	U	3.0	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
460-00-4	Bromofluorobenzene	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-120467/5

Matrix: Solid Lab File ID: k02357.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/19/2012 10:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 120467 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120595/2 Calibration Date: 07/19/2012 19:46

Instrument ID: VOAMS5 Calib Start Date: 07/03/2012 09:31

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 07/03/2012 11:51

Lab File ID: e05697.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	LinF	0.1709	0.1598		17.5	20.0	-12.7	50.0
Chloromethane	Ave	0.2893	0.2548	0.1000	17.6	20.0	-11.9	50.0
Vinyl chloride	Ave	0.2566	0.2220		17.3	20.0	-13.5	20.0
Bromomethane	Ave	0.1335	0.1235		18.5	20.0	-7.5	50.0
Chloroethane	Ave	0.1148	0.1067		18.6	20.0	-7.1	50.0
n-Pentane	Ave	0.0217	0.0235		21.6	20.0	8.2	50.0
Trichlorofluoromethane	Ave	0.2418	0.2568		21.2	20.0	6.2	50.0
Isopropene	Ave	0.2664	0.2451		18.4	20.0	-8.0	50.0
Ethyl ether	Ave	0.1726	0.1658		19.2	20.0	-3.9	50.0
1,1-Dichloroethene	Ave	0.1779	0.1727		19.4	20.0	-2.9	20.0
Carbon disulfide	Ave	0.6435	0.5601		17.4	20.0	-12.9	50.0
Ethanol	Ave	0.0011	0.0011		2800	3000	-6.6	50.0
Freon TF	Ave	0.1891	0.1813		19.2	20.0	-4.1	50.0
Iodomethane	QuaF	0.1971	0.2362		13.6	20.0	-32.1	50.0
Acrolein	Ave	0.0348	0.0190		21.8	40.0	-45.4	99.0
Methylene Chloride	Ave	0.2498	0.2488		19.9	20.0	-0.4	50.0
Acetone	Ave	0.0190	0.0202		21.2	20.0	6.1	50.0
trans-1,2-Dichloroethene	Ave	0.2247	0.2105		18.7	20.0	-6.3	50.0
Methyl acetate	Ave	0.0380	0.0447		23.5	20.0	17.5	50.0
Hexane	Ave	0.0585	0.0550		18.8	20.0	-6.0	50.0
MTBE	Ave	0.6700	0.6680		19.9	20.0	-0.3	50.0
TBA	Ave	0.0202	0.0200		395	400	-1.3	50.0
Acetonitrile	Ave	0.0055	0.0037		270	400	-32.4	50.0
DIPE	Ave	0.8459	0.8351		19.7	20.0	-1.3	50.0
1,1-Dichloroethane	Ave	0.4288	0.4228	0.1000	19.7	20.0	-1.4	50.0
Acrylonitrile	Ave	0.0790	0.0707		17.9	20.0	-10.5	50.0
Tert-butyl ethyl ether	Ave	0.7468	0.7468	0.0100	20.0	20.0	0.0	50.0
Vinyl acetate	Ave	0.4229	0.3391		16.0	20.0	-19.8	50.0
cis-1,2-Dichloroethene	Ave	0.2491	0.2479		19.9	20.0	-0.5	50.0
2,2-Dichloropropane	Ave	0.3212	0.3372		21.0	20.0	5.0	50.0
Bromochloromethane	Ave	0.1271	0.1273		20.0	20.0	0.1	50.0
Cyclohexane	Ave	0.3767	0.3477		18.5	20.0	-7.7	50.0
Chloroform	Ave	0.4010	0.4095		20.4	20.0	2.1	20.0
Carbon tetrachloride	Ave	0.2872	0.2906		20.2	20.0	1.2	50.0
Ethyl acetate	Ave	0.0214	0.0238		44.5	40.0	11.3	50.0
Tetrahydrofuran	LinF	0.0944	0.0898		22.7	20.0	13.5	50.0
1,1,1-Trichloroethane	Ave	0.3484	0.3466		19.9	20.0	-0.5	50.0
1,1-Dichloropropene	Ave	0.3503	0.3413		19.5	20.0	-2.6	50.0
2-Butanone	LinF	0.0340	0.0357		19.0	20.0	-5.2	50.0
Benzene	Ave	1.211	1.144		18.9	20.0	-5.6	50.0
n-Heptane	Ave	0.1431	0.1255		17.5	20.0	-12.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120595/2 Calibration Date: 07/19/2012 19:46

Instrument ID: VOAMS5 Calib Start Date: 07/03/2012 09:31

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 07/03/2012 11:51

Lab File ID: e05697.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-amyl methyl ether	Ave	0.6483	0.6606		20.4	20.0	1.9	50.0
1,2-Dichloroethane	Ave	0.2926	0.3007		20.6	20.0	2.8	50.0
Isopropyl acetate	Ave	0.3796	0.3909		41.2	40.0	3.0	50.0
Methylcyclohexane	Ave	0.3759	0.3431		18.3	20.0	-8.7	50.0
Trichloroethene	Ave	0.2446	0.2374		19.4	20.0	-2.9	50.0
Dibromomethane	Ave	0.1401	0.1370		19.6	20.0	-2.2	50.0
n-Butanol	Ave	0.0050	0.0051		1530	1500	1.7	50.0
1,2-Dichloropropane	Ave	0.2519	0.2394		19.0	20.0	-4.9	20.0
Bromodichloromethane	Ave	0.3125	0.3097		19.8	20.0	-0.9	50.0
Ethyl acrylate	Ave	0.2685	0.2704		20.1	20.0	0.7	50.0
Methyl methacrylate	LinF	0.0591	0.0633		18.9	20.0	-5.5	50.0
1,4-Dioxane	LinF	0.0020	0.0025		172	150	14.4	50.0
Propyl acetate	Ave	0.2951	0.2947		39.9	40.0	-0.2	50.0
2-Chloroethyl vinyl ether	Ave	0.1207	0.1350		22.4	20.0	11.9	50.0
cis-1,3-Dichloropropene	Ave	0.4992	0.4898		19.6	20.0	-1.9	50.0
Toluene	Ave	1.444	1.387		19.2	20.0	-3.9	20.0
Epichlorohydrin	Ave	0.0244	0.0245		401	400	0.3	50.0
Tetrachloroethene	Ave	0.3604	0.3599		20.0	20.0	-0.1	50.0
4-Methyl-2-pentanone	Ave	0.2505	0.2510		20.0	20.0	0.2	50.0
trans-1,3-Dichloropropene	Ave	0.4419	0.4451		20.1	20.0	0.7	50.0
1,1,2-Trichloroethane	Ave	0.2169	0.2070		19.1	20.0	-4.6	50.0
Dibromochloromethane	Ave	0.3096	0.3132		20.2	20.0	1.2	50.0
1,3-Dichloropropane	Ave	0.4681	0.4604		19.7	20.0	-1.6	50.0
1,2-Dibromoethane	Ave	0.2723	0.2718		20.0	20.0	-0.2	50.0
Butyl acetate	Ave	0.0735	0.0743		40.4	40.0	1.1	50.0
2-Hexanone	Ave	0.1886	0.2056		21.8	20.0	9.0	50.0
Chlorobenzene	Ave	0.9500	0.9487	0.3000	20.0	20.0	-0.1	50.0
Ethylbenzene	Ave	0.4966	0.5011		20.2	20.0	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3208	0.3296		20.6	20.0	2.8	50.0
m&p-Xylene	Ave	0.6427	0.6409		39.9	40.0	-0.3	50.0
o-Xylene	Ave	0.6214	0.6223		20.0	20.0	0.1	50.0
Bromoform	Ave	0.2226	0.2300	0.1000	20.7	20.0	3.3	50.0
Styrene	Ave	1.052	1.072		20.4	20.0	2.0	50.0
Amly acetate	Ave	0.3495	0.3454		19.8	20.0	-1.2	50.0
Butyl acrylate	LinF	0.2233	0.2357		18.3	20.0	-8.6	50.0
Isopropylbenzene	Ave	1.597	1.615		20.2	20.0	1.2	50.0
Camphene, Total	Ave	0.0973	0.0947		19.5	20.0	-2.7	50.0
Monobromobenzene	Ave	0.7298	0.7405		20.3	20.0	1.5	50.0
N-Propylbenzene	Ave	3.104	3.032		19.5	20.0	-2.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5622	0.5578	0.3000	19.8	20.0	-0.8	50.0
2-Chlorotoluene	Ave	1.858	1.852		19.9	20.0	-0.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120595/2 Calibration Date: 07/19/2012 19:46

Instrument ID: VOAMS5 Calib Start Date: 07/03/2012 09:31

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 07/03/2012 11:51

Lab File ID: e05697.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1665	0.1743		20.9	20.0	4.7	50.0
1,3,5-Trimethylbenzene	Ave	2.271	2.239		19.7	20.0	-1.4	50.0
trans-1,4-Dichloro-2-butene	LinF	0.1467	0.1566		18.8	20.0	-6.1	50.0
4-Chlorotoluene	Ave	1.992	1.991		20.0	20.0	-0.0	50.0
tert-Butylbenzene	Ave	1.882	1.867		19.8	20.0	-0.8	50.0
1,2,4-Trimethylbenzene	Ave	2.425	2.352		19.4	20.0	-3.0	50.0
Butyl Methacrylate	Ave	0.7431	0.7870		21.2	20.0	5.9	50.0
sec-Butylbenzene	Ave	2.669	2.577		19.3	20.0	-3.4	50.0
1,3-Dichlorobenzene	Ave	1.360	1.374		20.2	20.0	1.0	50.0
p-Isopropyltoluene	Ave	2.353	2.325		19.8	20.0	-1.2	50.0
1,4-Dichlorobenzene	Ave	1.396	1.403		20.1	20.0	0.5	50.0
2-Octanone	Ave	0.6811	0.7806		22.9	20.0	14.6	50.0
Benzyl chloride	Ave	1.058	1.139		21.5	20.0	7.6	50.0
n-Butylbenzene	Ave	2.013	1.905		18.9	20.0	-5.4	50.0
1,2-Dichlorobenzene	Ave	1.303	1.312		20.1	20.0	0.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0944	0.1008		21.3	20.0	6.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8908	0.8612		19.3	20.0	-3.3	50.0
Hexachlorobutadiene	Ave	0.3760	0.3668		19.5	20.0	-2.5	50.0
Naphthalene	Ave	1.786	1.835		20.5	20.0	2.7	50.0
1,2,3-Trichlorobenzene	Ave	0.7534	0.7322		19.4	20.0	-2.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2176	0.2242		51.5	50.0	3.0	50.0
Toluene-d8 (Surr)	Ave	1.052	1.082		51.4	50.0	2.8	50.0
Bromofluorobenzene	Ave	0.7356	0.7975		54.2	50.0	8.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120467/2 Calibration Date: 07/19/2012 07:52

Instrument ID: VOAMS9 Calib Start Date: 07/13/2012 22:42

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 07/14/2012 03:57

Lab File ID: k02351.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	LinF	0.3747	0.3372		17.0	20.0	-14.8	50.0
Chloromethane	Ave	0.4159	0.3304	0.1000	15.9	20.0	-20.5	50.0
Vinyl chloride	Ave	0.3856	0.3456		17.9	20.0	-10.4	20.0
Bromomethane	Ave	0.2845	0.2539		17.9	20.0	-10.7	50.0
Chloroethane	LinF	0.1887	0.1759		24.0	20.0	20.1	50.0
Trichlorofluoromethane	Ave	0.4992	0.4956		19.9	20.0	-0.7	50.0
Ethanol	Ave	0.0012	0.0014		3470	3000	15.6	50.0
Ethyl ether	Ave	0.1789	0.2004		22.4	20.0	12.0	50.0
Isopropene	Ave	0.3321	0.3881		23.4	20.0	16.9	50.0
Acrolein	Ave	0.0213	0.0178		251	300	-16.3	99.0
Freon TF	LinF	0.3156	0.3826		23.5	20.0	17.5	50.0
1,1-Dichloroethene	Ave	0.2560	0.2645		20.7	20.0	3.3	20.0
Acetone	LinF	0.1181	0.1022		28.5	20.0	42.7	50.0
Iodomethane	Ave	0.6486	0.7081		21.8	20.0	9.2	50.0
Carbon disulfide	LinF	0.9646	1.064		21.7	20.0	8.7	50.0
Methyl acetate	Ave	0.0543	0.0582		21.5	20.0	7.3	50.0
Acetonitrile	Ave	0.0345	0.0369		428	400	7.0	50.0
Methylene Chloride	LinF	0.4212	0.3306		21.7	20.0	8.3	50.0
TBA	Ave	0.0351	0.0421		479	400	19.8	50.0
MTBE	Ave	0.8368	0.9053		21.6	20.0	8.2	50.0
trans-1,2-Dichloroethene	Ave	0.3105	0.3092		19.9	20.0	-0.4	50.0
Acrylonitrile	Ave	0.0875	0.0912		156	150	4.3	50.0
Hexane	LinF	0.2280	0.2575		22.8	20.0	14.1	50.0
DIPE	Ave	0.9430	0.9898		21.0	20.0	5.0	50.0
1,1-Dichloroethane	Ave	0.5190	0.5035	0.1000	19.4	20.0	-3.0	50.0
Vinyl acetate	LinF	0.0301	0.0348		20.7	20.0	3.4	50.0
Tert-butyl ethyl ether	Ave	0.9473	0.9861	0.0100	20.8	20.0	4.1	50.0
2,2-Dichloropropane	Ave	0.4837	0.4893		20.2	20.0	1.2	50.0
cis-1,2-Dichloroethene	Ave	0.3617	0.3491		19.3	20.0	-3.5	50.0
2-Butanone	Ave	0.0323	0.0332		20.5	20.0	2.7	50.0
Ethyl acetate	Ave	0.0271	0.0310		45.7	40.0	14.2	50.0
Bromochloromethane	Ave	0.1738	0.1766		20.3	20.0	1.6	50.0
Tetrahydrofuran	LinF	0.1008	0.0946		26.7	20.0	33.4	50.0
Chloroform	Ave	0.5493	0.5444		19.8	20.0	-0.9	20.0
Cyclohexane	LinF	0.5044	0.5680		21.5	20.0	7.5	50.0
1,1,1-Trichloroethane	Ave	0.4905	0.5123		20.9	20.0	4.5	50.0
Carbon tetrachloride	Ave	0.4150	0.4482		21.6	20.0	8.0	50.0
1,1-Dichloropropene	Ave	0.4411	0.4421		20.0	20.0	0.2	50.0
Benzene	Ave	1.256	1.234		19.7	20.0	-1.7	50.0
Isopropyl acetate	Ave	0.5776	0.6397		44.3	40.0	10.7	50.0
Tert-amyl methyl ether	Ave	0.8629	0.9234		21.4	20.0	7.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120467/2 Calibration Date: 07/19/2012 07:52

Instrument ID: VOAMS9 Calib Start Date: 07/13/2012 22:42

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 07/14/2012 03:57

Lab File ID: k02351.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.3496	0.3485		19.9	20.0	-0.3	50.0
n-Butanol	Ave	0.0040	0.0050		1860	1500	24.2	50.0
Trichloroethene	Ave	0.3143	0.3121		19.9	20.0	-0.7	50.0
Methylcyclohexane	LinF	0.5504	0.6420		21.8	20.0	8.9	50.0
1,2-Dichloropropane	Ave	0.2923	0.2760		18.9	20.0	-5.6	20.0
Methyl methacrylate	Ave	0.1582	0.1706		21.6	20.0	7.8	50.0
1,4-Dioxane	LinF	0.0037	0.0039		150	150	0.1	50.0
Dibromomethane	Ave	0.1738	0.1743		20.1	20.0	0.3	50.0
Propyl acetate	Ave	0.3186	0.3446		43.3	40.0	8.2	50.0
Bromodichloromethane	Ave	0.3749	0.3718		19.8	20.0	-0.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1393	0.1521		21.8	20.0	9.2	50.0
Epichlorohydrin	Ave	0.0232	0.0256		442	400	10.5	50.0
cis-1,3-Dichloropropene	Ave	0.4375	0.4231		19.3	20.0	-3.3	50.0
4-Methyl-2-pentanone	Ave	0.2334	0.2653		22.7	20.0	13.7	50.0
Toluene	Ave	1.997	1.911		19.1	20.0	-4.3	20.0
trans-1,3-Dichloropropene	Ave	0.5137	0.4915		19.1	20.0	-4.3	50.0
1,1,2-Trichloroethane	Ave	0.2836	0.2810		19.8	20.0	-0.9	50.0
Tetrachloroethene	Ave	0.5329	0.5475		20.5	20.0	2.7	50.0
1,3-Dichloropropane	Ave	0.5288	0.5103		19.3	20.0	-3.5	50.0
2-Hexanone	Ave	0.2084	0.2328		22.3	20.0	11.7	50.0
Butyl acetate	QuaF	0.5920	0.5476		43.8	40.0	9.5	50.0
Dibromochloromethane	Ave	0.3927	0.4076		20.8	20.0	3.8	50.0
1,2-Dibromoethane	Ave	0.3424	0.3347		19.5	20.0	-2.3	50.0
Chlorobenzene	Ave	1.235	1.216	0.3000	19.7	20.0	-1.5	50.0
Ethylbenzene	Ave	0.6701	0.6526		19.5	20.0	-2.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4687	0.4788		20.4	20.0	2.2	50.0
m&p-Xylene	Ave	0.8350	0.8347		40.0	40.0	-0.0	50.0
Butyl acrylate	Ave	1.171	1.147		19.6	20.0	-2.1	50.0
o-Xylene	Ave	0.8601	0.8679		20.2	20.0	0.9	50.0
Styrene	Ave	1.370	1.317		19.2	20.0	-3.9	50.0
Amly acetate	Ave	0.3517	0.3742		21.3	20.0	6.4	50.0
Bromoform	Ave	0.2776	0.3062	0.1000	22.1	20.0	10.3	50.0
Isopropylbenzene	Ave	2.284	2.292		20.1	20.0	0.3	50.0
Camphene, Total	LinF	0.2812	0.3044		19.9	20.0	-0.7	50.0
Monobromobenzene	Ave	1.010	0.9887		19.6	20.0	-2.1	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7813	0.7884	0.3000	20.2	20.0	0.9	50.0
N-Propylbenzene	Ave	4.496	4.386		19.5	20.0	-2.4	50.0
1,2,3-Trichloropropane	Ave	0.2159	0.2145		19.9	20.0	-0.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0765	0.0858		22.4	20.0	12.2	50.0
2-Chlorotoluene	Ave	2.644	2.524		19.1	20.0	-4.6	50.0
1,3,5-Trimethylbenzene	Ave	3.291	3.179		19.3	20.0	-3.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120467/2 Calibration Date: 07/19/2012 07:52

Instrument ID: VOAMS9 Calib Start Date: 07/13/2012 22:42

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 07/14/2012 03:57

Lab File ID: k02351.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorotoluene	Ave	2.594	2.503		19.3	20.0	-3.5	50.0
Butyl Methacrylate	Ave	1.037	1.070		20.6	20.0	3.1	50.0
tert-Butylbenzene	Ave	2.705	2.633		19.5	20.0	-2.6	50.0
1,2,4-Trimethylbenzene	Ave	3.388	3.254		19.2	20.0	-4.0	50.0
sec-Butylbenzene	Ave	4.249	4.310		20.3	20.0	1.4	50.0
p-Isopropyltoluene	Ave	3.708	3.693		19.9	20.0	-0.4	50.0
1,3-Dichlorobenzene	Ave	1.971	1.933		19.6	20.0	-1.9	50.0
1,4-Dichlorobenzene	Ave	1.961	1.902		19.4	20.0	-3.0	50.0
Benzyl chloride	Ave	1.424	1.602		22.5	20.0	12.5	50.0
n-Butylbenzene	Ave	3.301	3.318		20.1	20.0	0.5	50.0
1,2-Dichlorobenzene	Ave	1.936	1.882		19.4	20.0	-2.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1533	0.1492		19.5	20.0	-2.7	50.0
Camphor	Ave	0.0865	0.0946		109	100	9.4	50.0
1,2,4-Trichlorobenzene	Ave	1.728	1.623		18.8	20.0	-6.1	50.0
Hexachlorobutadiene	Ave	0.9118	0.9209		20.2	20.0	1.0	50.0
Naphthalene	Ave	3.531	3.380		19.1	20.0	-4.3	50.0
1,2,3-Trichlorobenzene	Ave	1.670	1.551		18.6	20.0	-7.1	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2329	0.2520		54.1	50.0	8.2	50.0
Toluene-d8 (Surr)	Ave	1.386	1.392		50.2	50.0	0.5	50.0
Bromofluorobenzene	Ave	0.9612	0.9526		49.6	50.0	-0.9	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42456-1 Analy Batch No.: 119951

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/13/2012 22:42 Calibration End Date: 07/14/2012 03:57 Calibration ID: 16408

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	0.4320 0.4960	0.5075	0.4977	0.5106	0.4990	Ave		0.4905				6.0		15.0			
Carbon tetrachloride	0.3570 0.4343	0.4256	0.4232	0.4251	0.4246	Ave		0.4150				6.9		15.0			
1,1-Dichloropropene	0.4193 0.4350	0.4505	0.4426	0.4523	0.4466	Ave		0.4411				2.8		15.0			
Benzene	1.1376 1.2261	1.2766	1.3000	1.3196	1.2746	Ave		1.2557				5.2		15.0			
Isopropyl acetate	0.5494 0.5533	0.5553	0.6238	0.6162	0.5678	Ave		0.5776				5.8		15.0			
Tert-amyl methyl ether	0.7544 0.8279	0.8750	0.9575	0.9120	0.8505	Ave		0.8629				8.1		15.0			
1,2-Dichloroethane	0.3249 0.3423	0.3629	0.3522	0.3630	0.3520	Ave		0.3496				4.1		15.0			
n-Butanol	0.0037 0.0044	0.0038	0.0039	0.0040	0.0041	Ave		0.0040				5.9		15.0			
Trichloroethene	0.2740 0.3239	0.3111	0.3268	0.3270	0.3227	Ave		0.3143				6.5		15.0			
Methylcyclohexane	0.2913 0.5923	0.6152	0.6527	0.5794	0.5718	LinF		0.5896							0.9998		0.9900
1,2-Dichloropropane	0.2924 0.2854	0.2914	0.2899	0.3024	0.2923	Ave		0.2923				1.9		30.0			
Methyl methacrylate	0.1473 0.1625	0.1492	0.1646	0.1665	0.1593	Ave		0.1582				5.1		15.0			
1,4-Dioxane	0.0028 0.0039	0.0033	0.0040	0.0038	0.0041	LinF		0.0039							0.9998		0.9900
Propyl acetate	0.3381 0.3093	0.2940	0.3303	0.3335	0.3061	Ave		0.3186				5.6		15.0			
Dibromomethane	0.1769 0.1704	0.1699	0.1738	0.1789	0.1727	Ave		0.1738				2.0		15.0			
Bromodichloromethane	0.3393 0.3925	0.3648	0.3716	0.3885	0.3925	Ave		0.3749				5.6		15.0			
2-Chloroethyl vinyl ether	0.1222 0.1488	0.1290	0.1461	0.1456	0.1443	Ave		0.1393				7.9		15.0			
Epichlorohydrin	0.0225 0.0242	0.0210	0.0237	0.0246	0.0231	Ave		0.0232				5.7		15.0			
cis-1,3-Dichloropropene	0.3794 0.4665	0.4195	0.4360	0.4586	0.4651	Ave		0.4375				7.8		15.0			
4-Methyl-2-pentanone	0.2216 0.2343	0.2135	0.2501	0.2508	0.2301	Ave		0.2334				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42456-1 Analy Batch No.: 118471

SDG No.:

Instrument ID: VOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/03/2012 09:31 Calibration End Date: 07/03/2012 11:51 Calibration ID: 16283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrahydrofuran	0.1176 0.0786	0.1049	0.0947	0.0899	0.0808	LinF		0.0791							0.9995		0.9900
1,1,1-Trichloroethane	0.3575 0.3535	0.3173	0.3389	0.3591	0.3643	Ave		0.3484				5.0		15.0			
1,1-Dichloropropene	0.3517 0.3573	0.3177	0.3484	0.3631	0.3639	Ave		0.3503				4.9		15.0			
2-Butanone	0.0265 0.0376	0.0272	0.0375	0.0377	0.0374	LinF		0.0376							0.9999		0.9900
Benzene	1.3330 1.0877	1.1828	1.2070	1.2599	1.1980	Ave		1.2114				6.8		15.0			
n-Heptane	0.1387 0.1366	0.1384	0.1507	0.1492	0.1451	Ave		0.1431				4.2		15.0			
Tert-amyl methyl ether	0.6231 0.6684	0.6161	0.6602	0.6653	0.6568	Ave		0.6483				3.5		15.0			
1,2-Dichloroethane	0.3017 0.2833	0.2877	0.2886	0.3015	0.2928	Ave		0.2926				2.6		15.0			
Isopropyl acetate	0.3490 0.4094	0.3445	0.3919	0.4044	0.3784	Ave		0.3796				7.3		15.0			
Methylcyclohexane	0.3396 0.3957	0.3405	0.3903	0.3957	0.3936	Ave		0.3759				7.4		15.0			
Trichloroethene	0.2604 0.2436	0.2279	0.2399	0.2492	0.2465	Ave		0.2446				4.4		15.0			
Dibromomethane	0.1398 0.1414	0.1307	0.1420	0.1451	0.1416	Ave		0.1401				3.5		15.0			
n-Butanol	0.0039 0.0054	0.0046	0.0050	0.0050	0.0058	Ave		0.0050				13.5		15.0			
1,2-Dichloropropane	0.2438 0.2571	0.2487	0.2499	0.2571	0.2547	Ave		0.2519				2.1		30.0			
Bromodichloromethane	0.3098 0.3265	0.2951	0.3006	0.3184	0.3247	Ave		0.3125				4.1		15.0			
Ethyl acrylate	0.2414 0.2903	0.2505	0.2736	0.2795	0.2759	Ave		0.2685				6.9		15.0			
Methyl methacrylate	0.0435 0.0675	0.0532	0.0623	0.0647	0.0637	LinF		0.0670							0.9994		0.9900
1,4-Dioxane	0.0013 0.0021	0.0022	0.0022	0.0021	0.0021	LinF		0.0021							0.9906		0.9900
Propyl acetate	0.2628 0.3173	0.2845	0.3050	0.3040	0.2972	Ave		0.2951				6.5		15.0			
2-Chloroethyl vinyl ether	0.0981 0.1236	0.1239	0.1286	0.1290	0.1208	Ave		0.1207				9.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42456-1 Analy Batch No.: 118061

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/28/2012 17:45 Calibration End Date: 06/28/2012 19:33 Calibration ID: 16260

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-118061/7	u77819.d
Level 2	IC 460-118061/6	u77818.d
Level 3	IC 460-118061/5	u77817.d
Level 4	ICIS 460-118061/2	u77814.d
Level 5	IC 460-118061/4	u77816.d
Level 6	IC 460-118061/3	u77815.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.4996 0.4695	0.4977	0.5129	0.4914	0.4751	Ave		0.4910				3.3		15.0			
N-Nitrosodimethylamine	0.8668 0.9920	1.0080	0.9425	0.9689	0.9542	Ave		0.9554				5.2		15.0			
Pyridine	1.6296 1.6128	1.6205	1.5648	1.5828	1.5703	Ave		1.5968				1.7		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.1949	+++++	Ave		0.1949						15.0			
Benzaldehyde	1.3967 +++++	1.0939	0.7915	0.3993	0.2825	Ave		0.7928				58.8	*	15.0			
Aniline	2.3692 2.3673	2.3427	2.3684	2.4540	2.3846	Ave		2.3811				1.6		15.0			
Phenol	1.9389 2.9841	2.1160	2.3137	2.2943	2.3370	QuaF		0.5016	-0.018						0.9989		0.9900
Bis(2-chloroethyl)ether	1.5019 2.3789	1.7819	1.7058	1.7098	1.7592	QuaF		0.6771	-0.036						0.9989		0.9900
2-Chlorophenol	1.1222 1.6018	1.2792	1.2499	1.3374	1.3732	Ave		1.3273				12.1		15.0			
Decane	2.0102 1.9421	2.0798	2.1815	2.0543	1.8933	Ave		2.0269				5.1		15.0			
1,3-Dichlorobenzene	1.5023 1.7399	1.4900	1.5119	1.5770	1.5860	Ave		1.5678				5.9		15.0			
1,4-Dichlorobenzene	1.5839 1.9197	1.6436	1.4929	1.6878	1.6955	Ave		1.6706				8.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42456-1 Analy Batch No.: 120694

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2012 04:22 Calibration End Date: 07/20/2012 06:03 Calibration ID: 16471

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-120694/7	u78551.d
Level 2	IC 460-120694/6	u78550.d
Level 3	IC 460-120694/5	u78549.d
Level 4	ICIS 460-120694/2	u78546.d
Level 5	IC 460-120694/4	u78548.d
Level 6	IC 460-120694/3	u78547.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.5540 0.5142	0.5732	0.4917	0.5582	0.5671	Ave		0.5431				6.0		15.0			
N-Nitrosodimethylamine	0.8543 0.9672	1.2064	1.0010	1.0832	0.9614	Ave		1.0123				11.9		15.0			
Pyridine	1.4486 1.5624	1.7776	1.5764	1.7082	1.5810	Ave		1.6090				7.2		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.1400	+++++	Ave		0.1400						15.0			
Benzaldehyde	1.2532 +++++	1.0462	0.9170	0.6058	0.3406	Ave		0.8326				43.4	*	15.0			
Aniline	2.3064 1.8782	2.2785	2.0186	2.2784	2.2581	Ave		2.1697				8.2		15.0			
Phenol	1.7815 2.8029	2.1844	2.1796	2.3668	2.1889	Ave		2.2507				14.8		30.0			
Bis(2-chloroethyl)ether	1.8618 2.5193	1.7560	1.6612	1.8415	1.8094	QuaF		0.6532	-0.034						0.9982		0.9900
2-Chlorophenol	1.0367 1.5550	1.1766	1.2170	1.4024	1.3307	Ave		1.2864				14.2		15.0			
Decane	2.3093 2.1341	2.3074	2.4624	2.2161	2.1326	Ave		2.2603				5.6		15.0			
1,3-Dichlorobenzene	1.4208 1.7176	1.6701	1.5077	1.6446	1.7218	Ave		1.6138				7.6		15.0			
1,4-Dichlorobenzene	1.6151 1.7788	1.6843	1.5762	1.7409	1.7067	Ave		1.6837				4.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120549/2 Calibration Date: 07/19/2012 02:49

Instrument ID: BNAMS4 Calib Start Date: 06/28/2012 17:45

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 06/28/2012 19:33

Lab File ID: u78508.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4910	0.3722		37900	50000	-24.2*	20.0
N-Nitrosodimethylamine	Ave	0.9554	0.7897		41300	50000	-17.3	20.0
Pyridine	Ave	1.597	1.380		43200	50000	-13.6	20.0
Benzaldehyde	Ave	0.7928	0.7613		48000	50000	-4.0	20.0
Aniline	Ave	2.381	2.459		51600	50000	3.3	20.0
Phenol	QuaF	2.331	2.238		50300	50000	0.7	20.0
Bis(2-chloroethyl)ether	QuaF	1.806	1.912		56600	50000	13.1	20.0
2-Chlorophenol	Ave	1.327	1.368		51500	50000	3.1	20.0
Decane	Ave	2.027	2.285		56400	50000	12.8	20.0
1,3-Dichlorobenzene	Ave	1.568	1.654		52700	50000	5.5	20.0
1,4-Dichlorobenzene	Ave	1.671	1.683		50400	50000	0.7	20.0
1,2-Dichlorobenzene	Ave	1.669	1.672		50100	50000	0.2	20.0
Benzyl alcohol	Ave	0.9514	0.9398		49400	50000	-1.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.165	4.124	+	65200	50000	30.3*	20.0
2-Methylphenol	Ave	1.365	1.514		55500	50000	11.0	20.0
Acetophenone	Ave	2.529	2.673		52800	50000	5.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.776	2.191	+ 0.0500	61700	50000	23.4*	20.0
3 & 4 Methylphenol	QuaF	1.508	1.776	+	61900	50000	23.7*	20.0
4-Methylphenol	QuaF	1.508	1.776		61900	50000	23.7*	20.0
Hexachloroethane	Ave	0.8396	0.9854		58700	50000	17.4	20.0
n,n'-Dimethylaniline	Ave	2.059	2.362		57300	50000	14.7	20.0
Nitrobenzene	Ave	0.9900	1.039		52500	50000	5.0	20.0
Isophorone	Ave	1.110	1.194		53800	50000	7.6	20.0
2-Nitrophenol	Ave	0.2131	0.2140		50200	50000	0.4	20.0
2,4-Dimethylphenol	Ave	0.3036	0.3114		51300	50000	2.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.5464	0.5512		50400	50000	0.9	20.0
2,4-Dichlorophenol	Ave	0.3824	0.3964		51800	50000	3.7	20.0
1,2,4-Trichlorobenzene	Ave	0.4141	0.4305		52000	50000	4.0	20.0
Benzoic acid	QuaF	0.1746	0.1399		36200	50000	-27.5*	20.0
Naphthalene	Ave	0.997	0.9913		49700	50000	-0.6	20.0
4-Chloroaniline	Ave	0.3959	0.3928		49600	50000	-0.8	20.0
Hexachlorobutadiene	Ave	0.3330	0.3308		49700	50000	-0.6	20.0
Caprolactam	Ave	0.0929	0.0884		47600	50000	-4.9	20.0
4-Chloro-3-methylphenol	Ave	0.4597	0.4735		51500	50000	3.0	20.0
2-Methylnaphthalene	Ave	0.7053	0.7307		51800	50000	3.6	20.0
1-Methylnaphthalene	Ave	0.7543	0.8007		53100	50000	6.1	20.0
Hexachlorocyclopentadiene	QuaF	0.3879	0.3200	0.0500	36300	50000	-27.3*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.8157	0.7471		45800	50000	-8.4	20.0
2-tertbutyl-4-methylphenol	Ave	0.6102	0.6651		54500	50000	9.0	20.0
2,4,6-Trichlorophenol	Ave	0.4665	0.4671		50100	50000	0.1	20.0
2,4,5-Trichlorophenol	Ave	0.5038	0.5078		50400	50000	0.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120549/2 Calibration Date: 07/19/2012 02:49

Instrument ID: BNAMS4 Calib Start Date: 06/28/2012 17:45

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 06/28/2012 19:33

Lab File ID: u78508.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.161	1.191		51300	50000	2.5	20.0
Diphenyl	QuaF	1.445	1.539		48500	50000	-2.9	20.0
Diphenyl ether	Ave	0.7517	0.7316		48700	50000	-2.7	20.0
2-Nitroaniline	Ave	0.5946	0.6306		53000	50000	6.1	20.0
Dimethylnaphthalene, total	Ave	0.8854	0.9376		52900	50000	5.9	20.0
Coumarin	Ave	0.3104	0.3644		58700	50000	17.4	20.0
Dimethyl phthalate	Ave	1.454	1.498		51500	50000	3.0	20.0
2,6-Dinitrotoluene	Ave	0.3193	0.3622		56700	50000	13.4	20.0
Acenaphthylene	Ave	1.632	1.764		54100	50000	8.1	20.0
3-Nitroaniline	Ave	0.2896	0.3305		57100	50000	14.1	20.0
Acenaphthene	QuaF	1.088	1.115		49700	50000	-0.6	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.106	1.069		48300	50000	-3.4	20.0
2,4-Dinitrophenol	QuaF	0.1895	0.1661	0.0500	42600	50000	-14.8	20.0
Dibenzofuran	Ave	1.638	1.570		47900	50000	-4.2	20.0
2,4-Dinitrotoluene	Ave	0.4563	0.4601		50400	50000	0.8	20.0
4-Nitrophenol	Ave	0.4612	0.4733	0.0500	51300	50000	2.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.4258	0.4483		52600	50000	5.3	20.0
Diethyl phthalate	Ave	1.616	1.778		55000	50000	10.1	20.0
Fluorene	Ave	1.365	1.427		52300	50000	4.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.7350	0.7368		50100	50000	0.3	20.0
4-Nitroaniline	Ave	0.2521	0.2862		56800	50000	13.5	20.0
4,6-Dinitro-2-methylphenol	QuaF	0.1711	0.1354	-	37200	50000	-25.7*	20.0
N-Nitrosodiphenylamine	Ave	0.5242	0.5224		49800	50000	-0.3	20.0
1,2-Diphenylhydrazine	Ave	1.465	1.592		54400	50000	8.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2859	0.2650		46300	50000	-7.3	20.0
Hexachlorobenzene	Ave	0.3474	0.3633		52300	50000	4.6	20.0
Atrazine	Ave	0.2376	0.2346		49400	50000	-1.3	20.0
Pentachlorophenol	QuaF	0.1994	0.1791		42100	50000	-15.8	20.0
Pentachloronitrobenzene	Ave	0.1807	0.1725		47700	50000	-4.5	
n-Octadecane	Ave	0.6566	0.6598		50200	50000	0.5	20.0
Phenanthrene	Ave	1.095	1.143		52200	50000	4.3	20.0
Anthracene	Ave	1.079	1.120		51900	50000	3.8	20.0
Carbazole	Ave	0.9382	1.008		53700	50000	7.5	20.0
Di-n-butyl phthalate	Ave	1.489	1.624		54500	50000	9.1	20.0
Fluoranthene	Ave	1.156	1.237		53500	50000	7.0	20.0
Benzidine	Ave	0.2380	0.1426		30000	50000	-40.1*	20.0
Pyrene	Ave	1.280	1.275		49800	50000	-0.4	20.0
Butyl benzyl phthalate	Ave	0.6674	0.6587		49400	50000	-1.3	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1949	0.1047		269	500	-46.3*	20.0
Carbamazepine	Ave	0.4595	0.3619		39400	50000	-21.2*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120549/2 Calibration Date: 07/19/2012 02:49

Instrument ID: BNAMS4 Calib Start Date: 06/28/2012 17:45

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 06/28/2012 19:33

Lab File ID: u78508.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	QuaF	0.3564	0.3597		54200	50000	8.5	20.0
Benzo[a]anthracene	Ave	1.156	1.114		48200	50000	-3.6	20.0
Chrysene	Ave	1.037	0.9523		45900	50000	-8.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8482	0.8267		48700	50000	-2.5	20.0
Di-n-octyl phthalate	Ave	1.753	1.876		53500	50000	7.0	20.0
Benzo[b]fluoranthene	Ave	1.217	1.144		47000	50000	-6.0	20.0
Benzo[k]fluoranthene	Ave	1.225	1.336		54500	50000	9.0	20.0
Benzo[a]pyrene	Ave	0.9591	0.9688		50500	50000	1.0	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.8258	0.9173		53700	50000	7.3	20.0
Dibenz(a,h)anthracene	QuaF	0.7883	0.8863		53900	50000	7.9	20.0
Benzo[g,h,i]perylene	Ave	0.8698	0.8798		50600	50000	1.1	20.0
2-Fluorophenol	Ave	1.226	1.253		51100	50000	2.3	20.0
Phenol-d5	Ave	2.118	2.322		54800	50000	9.6	20.0
Nitrobenzene-d5	Ave	0.7098	0.7700		54200	50000	8.5	20.0
2-Fluorobiphenyl	Ave	1.374	1.354		49300	50000	-1.5	20.0
2,4,6-Tribromophenol	Ave	0.3079	0.3131		50800	50000	1.7	20.0
Terphenyl-d14	Ave	1.013	0.9408		46500	50000	-7.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120928/2 Calibration Date: 07/23/2012 02:01

Instrument ID: BNAMS4 Calib Start Date: 07/20/2012 04:22

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/20/2012 06:03

Lab File ID: u78634.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5431	0.3510		32300	50000	-35.4*	20.0
N-Nitrosodimethylamine	Ave	1.012	0.8180		40400	50000	-19.2	20.0
Pyridine	Ave	1.609	1.507		46800	50000	-6.3	20.0
Benzaldehyde	Ave	0.8326	0.5837		35100	50000	-29.9*	20.0
Aniline	Ave	2.170	2.213		51000	50000	2.0	20.0
Phenol	Ave	2.251	2.240		49800	50000	-0.5	20.0
Bis(2-chloroethyl)ether	QuaF	1.908	1.772		51200	50000	2.5	20.0
2-Chlorophenol	Ave	1.286	1.228		47700	50000	-4.5	20.0
Decane	Ave	2.260	2.222		49200	50000	-1.7	20.0
1,3-Dichlorobenzene	Ave	1.614	1.561		48400	50000	-3.3	20.0
1,4-Dichlorobenzene	Ave	1.684	1.603		47600	50000	-4.8	20.0
1,2-Dichlorobenzene	Ave	1.580	1.518		48100	50000	-3.9	20.0
Benzyl alcohol	Ave	0.8736	0.7258		41500	50000	-16.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.610	3.369		46700	50000	-6.7	20.0
2-Methylphenol	Ave	1.309	1.228		46900	50000	-6.2	20.0
Acetophenone	Ave	2.347	2.202		46900	50000	-6.2	20.0
N-Nitrosodi-n-propylamine	Ave	1.818	1.892	0.0500	52000	50000	4.1	20.0
Hexachloroethane	Ave	0.9034	0.8932		49400	50000	-1.1	20.0
3 & 4 Methylphenol	Ave	1.387	1.295		46700	50000	-6.6	20.0
4-Methylphenol	Ave	1.380	1.289		46700	50000	-6.6	20.0
Nitrobenzene	Ave	0.9435	0.997		52900	50000	5.7	20.0
n,n'-Dimethylaniline	Ave	1.934	1.981		51200	50000	2.4	20.0
Isophorone	Ave	1.091	1.127		51600	50000	3.3	20.0
2-Nitrophenol	Ave	0.1951	0.2093		53600	50000	7.3	20.0
2,4-Dimethylphenol	QuaF	0.2930	0.3074		53200	50000	6.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.5401	0.5374		49800	50000	-0.5	20.0
2,4-Dichlorophenol	Ave	0.3566	0.3760		52700	50000	5.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3911	0.4166		53300	50000	6.5	20.0
Benzoic acid	LinF	0.1623	0.1875		45000	50000	-10.1	20.0
Naphthalene	Ave	0.9839	1.074		54600	50000	9.2	20.0
4-Chloroaniline	Ave	0.3729	0.3761		50400	50000	0.9	20.0
Hexachlorobutadiene	Ave	0.3159	0.3566		56400	50000	12.9	20.0
Caprolactam	Ave	0.0818	0.0801		49000	50000	-2.0	20.0
4-Chloro-3-methylphenol	Ave	0.4102	0.4362		53200	50000	6.3	20.0
2-Methylnaphthalene	Ave	0.6557	0.7056		53800	50000	7.6	20.0
1-Methylnaphthalene	Ave	0.6875	0.7553		54900	50000	9.9	20.0
Hexachlorocyclopentadiene	QuaF	0.3625	0.3841	0.0500	46500	50000	-6.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7887	0.7857		49800	50000	-0.4	20.0
2-tertbutyl-4-methylphenol	Ave	0.5736	0.5916		51600	50000	3.1	20.0
2,4,6-Trichlorophenol	Ave	0.4530	0.4761		52500	50000	5.1	20.0
2,4,5-Trichlorophenol	Ave	0.5121	0.4843		47300	50000	-5.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120928/2 Calibration Date: 07/23/2012 02:01

Instrument ID: BNAMS4 Calib Start Date: 07/20/2012 04:22

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/20/2012 06:03

Lab File ID: u78634.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.219	1.236		50700	50000	1.3	20.0
Diphenyl	QuaF	1.539	1.559		47900	50000	-4.3	20.0
Diphenyl ether	Ave	0.7537	0.6896		45800	50000	-8.5	20.0
2-Nitroaniline	Ave	0.6513	0.6750		51800	50000	3.6	20.0
Dimethylnaphthalene, total	QuaF	0.9465	0.9091		47700	50000	-4.7	20.0
Coumarin	Ave	0.2776	0.2845		51200	50000	2.5	20.0
Dimethyl phthalate	Ave	1.431	1.402		49000	50000	-2.1	20.0
2,6-Dinitrotoluene	QuaF	0.3335	0.3584		50000	50000	-0.0	20.0
Acenaphthylene	QuaF	1.776	1.714		47200	50000	-5.7	20.0
3-Nitroaniline	Ave	0.3122	0.2634		42200	50000	-15.6	20.0
Acenaphthene	QuaF	1.112	0.9764		43300	50000	-13.4	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.080	1.121		51900	50000	3.8	20.0
2,4-Dinitrophenol	QuaF	0.1511	0.1560	0.0500	47800	50000	-4.5	20.0
Dibenzofuran	Ave	1.556	1.616		51900	50000	3.8	20.0
2,4-Dinitrotoluene	Ave	0.4257	0.3898		45800	50000	-8.4	20.0
4-Nitrophenol	Ave	0.4304	0.4046	0.0500	47000	50000	-6.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3874	0.3701		47800	50000	-4.5	20.0
Diethyl phthalate	Ave	1.562	1.469		47000	50000	-6.0	20.0
Fluorene	Ave	1.333	1.259		47200	50000	-5.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.6932	0.6927		50000	50000	-0.0	20.0
4-Nitroaniline	Ave	0.2396	0.2394		50000	50000	-0.0	20.0
4,6-Dinitro-2-methylphenol	QuaF	0.1520	0.1709		51500	50000	2.9	20.0
N-Nitrosodiphenylamine	LinF	0.5008	0.5243		44900	50000	-10.2	20.0
1,2-Diphenylhydrazine	Ave	1.597	1.770		55400	50000	10.8	20.0
4-Bromophenyl phenyl ether	Ave	0.2628	0.2823		53700	50000	7.4	20.0
Hexachlorobenzene	Ave	0.3252	0.3809		58600	50000	17.1	20.0
Atrazine	Ave	0.2192	0.2441		55700	50000	11.4	20.0
Pentachlorophenol	QuaF	0.1793	0.2175		53900	50000	7.8	20.0
Pentachloronitrobenzene	Ave	0.1730	0.1900		54900	50000	9.8	
n-Octadecane	Ave	0.7224	0.7636		52800	50000	5.7	20.0
Phenanthrene	Ave	1.086	1.198		55100	50000	10.3	20.0
Anthracene	Ave	1.114	1.178		52800	50000	5.7	20.0
Carbazole	Ave	0.8928	0.9406		52700	50000	5.3	20.0
Di-n-butyl phthalate	Ave	1.523	1.613		53000	50000	5.9	20.0
Fluoranthene	Ave	1.094	1.139		52100	50000	4.1	20.0
Benzidine	Ave	0.1972	0.1724		43700	50000	-12.6	20.0
Pyrene	Ave	1.246	1.087		43600	50000	-12.7	20.0
Butyl benzyl phthalate	Ave	0.6624	0.5877		44400	50000	-11.3	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1400	0.1166		416	500	-16.7	20.0
Carbamazepine	Ave	0.4133	0.4208		50900	50000	1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Lab Sample ID: CCVIS 460-120928/2 Calibration Date: 07/23/2012 02:01

Instrument ID: BNAMS4 Calib Start Date: 07/20/2012 04:22

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/20/2012 06:03

Lab File ID: u78634.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3500	0.3747		53500	50000	7.1	20.0
Benzo[a]anthracene	Ave	1.150	1.081		47000	50000	-6.1	20.0
Chrysene	Ave	1.025	0.9593		46800	50000	-6.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9222	0.7982		43300	50000	-13.4	20.0
Di-n-octyl phthalate	Ave	1.922	1.823		47400	50000	-5.2	20.0
Benzo[b]fluoranthene	LinF	1.214	1.239		43400	50000	-13.1	20.0
Benzo[k]fluoranthene	Ave	1.229	1.178		47900	50000	-4.1	20.0
Benzo[a]pyrene	Ave	0.9231	0.9607		52000	50000	4.1	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.8259	1.049		53100	50000	6.1	20.0
Dibenz(a,h)anthracene	LinF	0.7895	0.9370		51400	50000	2.8	20.0
Benzo[g,h,i]perylene	Ave	0.8443	0.9664		57200	50000	14.5	20.0
2-Fluorophenol	LinF	1.174	1.218		46100	50000	-7.8	20.0
Phenol-d5	Ave	2.069	2.090		50500	50000	1.0	20.0
Nitrobenzene-d5	Ave	0.7181	0.7688		53500	50000	7.1	20.0
2-Fluorobiphenyl	QuaF	1.405	1.445		50500	50000	0.9	20.0
2,4,6-Tribromophenol	Ave	0.2779	0.2726		49000	50000	-1.9	20.0
Terphenyl-d14	Ave	0.9461	0.8652		45700	50000	-8.6	20.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: u78515.d

Lab ID: LCS 460-120274/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Phenol	6670	5420	81	54-115	
2-Chlorophenol	6670	5790	87	56-110	
2-Methylphenol	6670	5960	89	54-117	
4-Methylphenol	6670	5850	88	47-103	
Benzaldehyde	3330	1360	41	10-160	
Acetophenone	3330	2430	73	40-95	
Bis(2-chloroethyl)ether	3330	2690	81	44-101	
2,2'-oxybis[1-chloropropane]	3330	2830	85	45-102	
N-Nitrosodi-n-propylamine	3330	2740	82	42-107	
Nitrobenzene	3330	2450	74	42-106	
Hexachloroethane	3330	2600	78	45-90	
Isophorone	3330	2560	77	48-97	
2-Nitrophenol	6670	5270	79	55-101	
2,4-Dimethylphenol	6670	5900	88	56-112	
2,4-Dichlorophenol	6670	5780	87	58-115	
Bis(2-chloroethoxy)methane	3330	2640	79	51-100	
Naphthalene	3330	2600	78	53-94	
4-Chloroaniline	3330	1760	53	10-96	
Hexachlorobutadiene	3330	2300	69	45-98	
Caprolactam	3330	1600	48	10-127	
4-Chloro-3-methylphenol	6670	5590	84	55-117	
2-Methylnaphthalene	3330	2650	80	51-98	
Hexachlorobenzene	3330	2500	75	43-104	
Hexachlorocyclopentadiene	3330	1640	49	24-98	
2,4,6-Trichlorophenol	6670	5640	85	53-118	
2,4,5-Trichlorophenol	6670	5670	85	50-115	
Diphenyl	3330	2570	77	50-105	
2-Chloronaphthalene	3330	2720	81	51-102	
2-Nitroaniline	3330	2940	88	51-109	
2,6-Dinitrotoluene	3330	2840	85	51-115	
Dimethyl phthalate	3330	2690	81	52-112	
Acenaphthylene	3330	2800	84	51-103	
3-Nitroaniline	3330	2380	71	32-104	
Acenaphthene	3330	2610	78	46-100	
4-Nitrophenol	6670	5860	88	45-114	
2,4-Dinitrophenol	6670	1320	20	10-129	
Dibenzofuran	3330	2630	79	52-106	
Diethyl phthalate	3330	2970	89	52-114	
Fluorene	3330	2880	86	51-108	
Fluoranthene	3330	2840	85	49-108	
Di-n-butyl phthalate	3330	2860	86	50-108	
2,4-Dinitrotoluene	3330	3170	95	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: u78515.d

Lab ID: LCS 460-120274/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	3330	2650	79	50-106	
4-Nitroaniline	3330	2770	83	45-106	
4,6-Dinitro-2-methylphenol	6670	1990	30	10-110	
4-Bromophenyl phenyl ether	3330	2210	66	44-102	
Atrazine	3330	1940	58	30-100	
Anthracene	3330	2710	81	50-107	
Carbazole	3330	2730	82	49-104	
Phenanthrene	3330	2770	83	48-108	
Pentachlorophenol	6670	3750	56	19-113	
Pyrene	3330	2710	81	49-116	
Chrysene	3330	2480	74	45-114	
Benzo[k]fluoranthene	3330	2260	68	35-115	
Benzo[g,h,i]perylene	3330	2250	67	43-106	
Benzo[b]fluoranthene	3330	2410	72	33-96	
Benzo[a]pyrene	3330	2600	78	36-89	
Benzo[a]anthracene	3330	2590	78	46-112	
N-Nitrosodiphenylamine	3330	2620	78	49-106	
Butyl benzyl phthalate	3330	2780	83	49-117	
Bis(2-ethylhexyl) phthalate	3330	2880	86	49-119	
Di-n-octyl phthalate	3330	2870	86	40-106	
Indeno[1,2,3-cd]pyrene	3330	2730	82	43-109	
Dibenz(a,h)anthracene	3330	2480	74	43-107	
3,3'-Dichlorobenzidine	3330	1950	58	24-105	
1,2,4,5-Tetrachlorobenzene	3330	2140	64	70-130	*
2,3,4,6-Tetrachlorophenol	3330	2790	84	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42456-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
SB-31 (33-35)	460-42456-1	97		89		91		74		57		85	
SB-31 (38-40) DL	460-42456-2 DL	0	D	0	D	0	D	0	D	0	D	0	D
	MB 460-120274/1-A	101		93		97		84		90		76	
	LCS 460-120274/2-A	67		73		59		60		62		56	
	460-42471-E-6-G MS DL	0	D	0	D	0	D	0	D	0	D	0	D
	460-42471-E-6-H MSD DL	0	D	0	D	0	D	0	D	0	D	0	D

	QC LIMITS
2FP = 2-Fluorophenol	37-125
PHL = Phenol-d5	41-118
NBZ = Nitrobenzene-d5	38-105
FBP = 2-Fluorobiphenyl	40-109
TBP = 2,4,6-Tribromophenol	10-120
TPH = Terphenyl-d14	16-151

Column to be used to flag recovery values

FORM II 8270C

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page ____ of ____

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S. WRIGHT	Site/Project Identification 60137362-310 / EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE, 13TH FL	Analysis Turnaround Time: Standard ☑	
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-798-8549 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	8260B	8270C									LAB USE ONLY Sample Numbers
SB-25 (92-93')	7-24-12	1100	SO	2	X	X									-1
SB-25 (103-105)	7-24-12	1130	SO	2	X	X									-2
SB-26 (75-80)	7-25-12	1600	SO	2	X	X									-3
SB-26 (88-90)	7-26-12	0830	SO	2	X	X									-4
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH 6 = Other ____, 7 = Other ____				Soil:	1	1									
				Water:											

Job No: 460-42919

Special Instructions ____ Water Metals Filtered (Yes/No)? ____

Relinquished by	Company AECOM	Date / Time 7/26/12 14:20	Received by 1) Fedex	Company TA NYC
Relinquished by 2)	Company TA NYC	Date / Time 7/26/12 15:40	Received by 2) Fedex	Company
Relinquished by 3) Fedex	Company	Date / Time	Received by 3) 7/27/12 1015	Company TA
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578)

3.9°C IR #50

08/07/2012

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Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-42919-1

Login Number: 42919
List Number: 1
Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9°C IR#50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-122212/5

Matrix: Solid Lab File ID: o62909.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2012 20:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	1.21		1.0	0.15
67-64-1	Acetone	2.80	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-122212/5

Matrix: Solid | Lab File ID: o62909.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2012 20:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
1330-20-7	Xylenes, Total	0.67	U	3.0	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
460-00-4	Bromofluorobenzene	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-122212/5

Matrix: Solid Lab File ID: o62909.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2012 20:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-122246/5

Matrix: Solid | Lab File ID: o62932.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/02/2012 07:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122246 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.187	J	1.0	0.15
67-64-1	Acetone	2.41	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-122246/5

Matrix: Solid Lab File ID: o62932.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/02/2012 07:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122246 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
1330-20-7	Xylenes, Total	0.67	U	3.0	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		70-130
2037-26-5	Toluene-d8 (Surr)	74		70-130
460-00-4	Bromofluorobenzene	78		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-122246/5

Matrix: Solid Lab File ID: o62932.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/02/2012 07:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122246 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: LB3 460-122042/1-A

Matrix: Solid Lab File ID: o62908.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/01/2012 20:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.555	J	1.0	0.15
67-64-1	Acetone	2.17	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB3 460-122042/1-A

Matrix: Solid | Lab File ID: o62908.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/01/2012 20:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 122212 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
1330-20-7	Xylenes, Total	0.67	U	3.0	0.67
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: LB3 460-122042/1-A

Matrix: Solid Lab File ID: o62908.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 08/01/2012 20:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122212 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42919-1 Analy Batch No.: 121151

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/21/2012 00:10 Calibration End Date: 07/21/2012 02:40 Calibration ID: 16505

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chloroform	0.7381 0.5769	0.6233	0.6277	0.6257	0.5762	Ave		0.6280				9.4		30.0			
1,1,1-Trichloroethane	0.5445 0.5507	0.5048	0.5604	0.5647	0.5499	Ave		0.5458				3.9		15.0			
Cyclohexane	0.7414 0.6827	0.6748	0.7335	0.7192	0.6601	Ave		0.7019				4.8		15.0			
Carbon tetrachloride	0.4180 0.4827	0.4147	0.4660	0.4743	0.4736	Ave		0.4549				6.7		15.0			
1,1-Dichloropropene	0.4783 0.5372	0.5129	0.5535	0.5637	0.5294	Ave		0.5292				5.8		15.0			
Benzene	1.3667 1.4293	1.3780	1.4261	1.4688	1.4263	Ave		1.4158				2.7		15.0			
1,2-Dichloroethane	0.4565 0.3761	0.4151	0.4038	0.3972	0.3745	Ave		0.4039				7.5		15.0			
Isopropyl acetate	0.4911 0.6455	0.5274	0.5235	0.5946	0.6112	Ave		0.5655				10.6		15.0			
Tert-amyl methyl ether	0.6867 0.8727	0.7031	0.7267	0.7801	0.8155	Ave		0.7641				9.4		15.0			
2,4,4-Trimethyl-1-pentene	0.2240 0.3061	0.2317	0.2862	0.2988	0.2937	Ave		0.2734				13.2		15.0			
Trichloroethene	0.3128 0.3709	0.3583	0.3633	0.3805	0.3639	Ave		0.3583				6.6		15.0			
n-Butanol	0.0045 0.0051	0.0040	0.0037	0.0042	0.0041	Ave		0.0043				11.2		15.0			
Ethyl acrylate	0.0109 0.0169	0.0151	0.0153	0.0156	0.0153	Ave		0.0149				13.8		15.0			
Methylcyclohexane	0.5759 0.7261	0.6200	0.7346	0.7332	0.7044	Ave		0.6824				9.9		15.0			
1,2-Dichloropropane	0.3312 0.3331	0.3362	0.3269	0.3400	0.3306	Ave		0.3330				1.4		30.0			
Dibromomethane	0.1944 0.1735	0.1859	0.1820	0.1860	0.1739	Ave		0.1826				4.4		15.0			
Methyl methacrylate	0.1816 0.1971	0.1763	0.1710	0.1877	0.1867	Ave		0.1834				5.0		15.0			
1,4-Dioxane	0.0042 0.0033	0.0046	0.0039	0.0037	0.0035	Ave		0.0039				12.3		15.0			
Propyl acetate	0.2025 0.1939	0.1733	0.1599	0.1819	0.1852	Ave		0.1828				8.2		15.0			
Bromodichloromethane	0.4226 0.4369	0.3976	0.4132	0.4362	0.4299	Ave		0.4228				3.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122212/2 Calibration Date: 08/01/2012 18:19

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62904.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3957	0.4223		21.3	20.0	6.7	50.0
Chloromethane	Ave	0.4681	0.4411	0.1000	18.8	20.0	-5.8	50.0
Vinyl chloride	LinF	0.4166	0.4184		19.9	20.0	-0.4	20.0
Bromomethane	LinF	0.2505	0.2452		19.8	20.0	-1.1	50.0
Chloroethane	Ave	0.2129	0.2424		22.8	20.0	13.8	50.0
Dichlorofluoromethane	Ave	0.6746	0.5546		16.4	20.0	-17.8	50.0
Trichlorofluoromethane	Ave	0.5776	0.5893		20.4	20.0	2.0	50.0
Ethanol	Ave	0.0017	0.0014		2400	3000	-20.1	50.0
Ethyl ether	Ave	0.2652	0.2058		15.5	20.0	-22.4	50.0
Isopropene	Ave	0.5271	0.4153		15.8	20.0	-21.2	50.0
Acrolein	Ave	0.0417	0.0285		205	300	-31.6	99.0
1,1-Dichloroethene	Ave	0.3032	0.2709		17.9	20.0	-10.7	20.0
Freon TF	Ave	0.3850	0.3370		17.5	20.0	-12.5	50.0
Acetone	QuaF	0.0910	0.0774		20.2	20.0	1.1	50.0
Iodomethane	Ave	0.4618	0.3196		13.8	20.0	-30.8	50.0
Carbon disulfide	Ave	1.080	0.6338		11.7	20.0	-41.3	50.0
Acetonitrile	Ave	0.0752	0.0586		312	400	-22.1	50.0
Methyl acetate	Ave	0.0580	0.0570		19.6	20.0	-1.8	50.0
Methylene Chloride	LinF	0.4026	0.3126		19.2	20.0	-4.2	50.0
TBA	Ave	0.0325	0.0271		334	400	-16.5	50.0
Acrylonitrile	Ave	0.1062	0.0897		127	150	-15.5	50.0
trans-1,2-Dichloroethene	Ave	0.3764	0.3401		18.1	20.0	-9.7	50.0
MTBE	Ave	0.8460	0.7533		17.8	20.0	-11.0	50.0
Hexane	Ave	0.2912	0.1924		13.2	20.0	-33.9	50.0
1,1-Dichloroethane	Ave	0.6454	0.5679	0.1000	17.6	20.0	-12.0	50.0
DIPE	Ave	1.066	0.8748		16.4	20.0	-18.0	50.0
Tert-butyl ethyl ether	Ave	0.9021	0.7827	0.0100	17.4	20.0	-13.2	50.0
2,2-Dichloropropane	Ave	0.5642	0.4985		17.7	20.0	-11.6	50.0
cis-1,2-Dichloroethene	Ave	0.4097	0.3905		19.1	20.0	-4.7	50.0
2-Butanone	Ave	0.0353	0.0303		17.2	20.0	-14.2	50.0
Ethyl acetate	Ave	0.0262	0.0230		35.1	40.0	-12.2	50.0
Bromochloromethane	Ave	0.1856	0.1759		19.0	20.0	-5.2	50.0
Tetrahydrofuran	LinF	0.1283	0.0921		19.7	20.0	-1.5	50.0
Chloroform	Ave	0.6280	0.5732		18.3	20.0	-8.7	20.0
1,1,1-Trichloroethane	Ave	0.5458	0.5423		19.9	20.0	-0.6	50.0
Cyclohexane	Ave	0.7019	0.5296		15.1	20.0	-24.6	50.0
Carbon tetrachloride	Ave	0.4549	0.4464		19.6	20.0	-1.9	50.0
1,1-Dichloropropene	Ave	0.5292	0.5115		19.3	20.0	-3.3	50.0
Benzene	Ave	1.416	1.372		19.4	20.0	-3.1	50.0
1,2-Dichloroethane	Ave	0.4039	0.3730		18.5	20.0	-7.6	50.0
Isopropyl acetate	Ave	0.5655	0.5211		36.9	40.0	-7.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122212/2 Calibration Date: 08/01/2012 18:19

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62904.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-amyl methyl ether	Ave	0.7641	0.6964		18.2	20.0	-8.9	50.0
Trichloroethene	Ave	0.3583	0.3408		19.0	20.0	-4.9	50.0
n-Butanol	Ave	0.0043	0.0037		1310	1500	-13.0	50.0
Ethyl acrylate	Ave	0.0149	0.0149		20.1	20.0	0.4	50.0
Methylcyclohexane	Ave	0.6824	0.5791		17.0	20.0	-15.1	50.0
1,2-Dichloropropane	Ave	0.3330	0.3088		18.5	20.0	-7.3	20.0
Dibromomethane	Ave	0.1826	0.1695		18.6	20.0	-7.2	50.0
1,4-Dioxane	Ave	0.0039	0.0041		159	150	6.2	50.0
Methyl methacrylate	Ave	0.1834	0.1664		18.1	20.0	-9.3	50.0
Bromodichloromethane	Ave	0.4228	0.3961		18.7	20.0	-6.3	50.0
2-Chloroethyl vinyl ether	Ave	0.1682	0.1615		19.2	20.0	-4.0	50.0
Epichlorohydrin	Ave	0.0273	0.0253		370	400	-7.5	50.0
cis-1,3-Dichloropropene	Ave	0.4960	0.4779		19.3	20.0	-3.7	50.0
4-Methyl-2-pentanone	Ave	0.2413	0.2153		17.8	20.0	-10.8	50.0
Toluene	Ave	2.085	1.981		19.0	20.0	-5.0	20.0
trans-1,3-Dichloropropene	LinF	0.5386	0.5082		16.6	20.0	-17.2	50.0
1,1,2-Trichloroethane	Ave	0.2811	0.2872		20.4	20.0	2.2	50.0
Tetrachloroethene	Ave	0.5743	0.6167		21.5	20.0	7.4	50.0
1,3-Dichloropropane	Ave	0.5973	0.5777		19.3	20.0	-3.3	50.0
2-Hexanone	Ave	0.2204	0.1978		18.0	20.0	-10.2	50.0
Dibromochloromethane	Ave	0.3867	0.3800		19.6	20.0	-1.8	50.0
1,2-Dibromoethane	Ave	0.3379	0.3375		20.0	20.0	-0.1	50.0
Butyl acetate	Ave	0.5449	0.4647		34.1	40.0	-14.7	50.0
Chlorobenzene	Ave	1.299	1.290	0.3000	19.9	20.0	-0.7	50.0
1,1,1,2-Tetrachloroethane	LinF	0.4042	0.4090		17.5	20.0	-12.5	50.0
Ethylbenzene	Ave	0.7192	0.7224		20.1	20.0	0.4	20.0
m&p-Xylene	Ave	0.8935	0.9037		40.5	40.0	1.1	50.0
o-Xylene	Ave	0.8824	0.8782		19.9	20.0	-0.5	50.0
Styrene	Ave	1.454	1.479		20.3	20.0	1.7	50.0
Butyl acrylate	Ave	1.203	1.001		16.6	20.0	-16.9	50.0
Bromoform	QuaF	0.2462	0.2553	0.1000	18.3	20.0	-8.3	50.0
Amly acetate	Ave	0.3495	0.3197		18.3	20.0	-8.5	50.0
Isopropylbenzene	Ave	2.379	2.381		20.0	20.0	0.0	50.0
Camphene, Total	Ave	0.3405	0.3031		17.8	20.0	-11.0	50.0
Monobromobenzene	Ave	1.011	0.996		19.7	20.0	-1.5	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7520	0.7306	0.3000	19.4	20.0	-2.8	50.0
1,2,3-Trichloropropane	Ave	0.2286	0.2177		19.1	20.0	-4.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0904	0.0867		19.2	20.0	-4.2	50.0
N-Propylbenzene	Ave	4.923	4.842		19.7	20.0	-1.6	50.0
2-Chlorotoluene	Ave	2.754	2.615		19.0	20.0	-5.1	50.0
p-Ethyltoluene	Ave	1.828	1.735		19.0	20.0	-5.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122212/2 Calibration Date: 08/01/2012 18:19

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62904.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorotoluene	Ave	2.821	2.689		19.1	20.0	-4.7	50.0
1,3,5-Trimethylbenzene	Ave	3.383	3.274		19.4	20.0	-3.2	50.0
Butyl Methacrylate	LinF	0.9920	0.9607		16.2	20.0	-19.1	50.0
tert-Butylbenzene	Ave	3.133	3.084		19.7	20.0	-1.5	50.0
1,2,4-Trimethylbenzene	Ave	3.393	3.366		19.8	20.0	-0.8	50.0
sec-Butylbenzene	Ave	4.744	4.579		19.3	20.0	-3.5	50.0
1,3-Dichlorobenzene	Ave	2.016	2.066		20.5	20.0	2.5	50.0
1,4-Dichlorobenzene	Ave	2.006	2.041		20.3	20.0	1.7	50.0
p-Isopropyltoluene	Ave	3.932	3.961		20.1	20.0	0.7	50.0
Benzyl chloride	LinF	1.259	1.231		15.4	20.0	-23.0	50.0
1,2-Dichlorobenzene	Ave	1.881	1.894		20.1	20.0	0.7	50.0
1,4-Diethylbenzene	Ave	1.101	1.085		19.7	20.0	-1.4	50.0
n-Butylbenzene	Ave	4.396	4.244		19.3	20.0	-3.5	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.1757	0.1596		19.0	20.0	-5.2	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.616	1.658		20.5	20.0	2.6	50.0
Camphor	Ave	0.0846	0.0930		110	100	9.9	50.0
1,2,4-Trichlorobenzene	Ave	1.543	1.657		21.5	20.0	7.4	50.0
Hexachlorobutadiene	Ave	0.9775	1.054		21.6	20.0	7.8	50.0
Naphthalene	Ave	3.002	3.125		20.8	20.0	4.1	50.0
1,2,3-Trichlorobenzene	Ave	1.396	1.497		21.4	20.0	7.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2054	0.1868		45.5	50.0	-9.1	50.0
Toluene-d8 (Surr)	Ave	1.014	0.9715		47.9	50.0	-4.2	50.0
Bromofluorobenzene	Ave	0.7005	0.7263		51.8	50.0	3.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122246/2 Calibration Date: 08/02/2012 04:40

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62927.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3957	0.3948		20.0	20.0	-0.2	50.0
Chloromethane	Ave	0.4681	0.3907	0.1000	16.7	20.0	-16.5	50.0
Vinyl chloride	LinF	0.4166	0.3862		18.4	20.0	-8.1	20.0
Bromomethane	LinF	0.2505	0.2411		19.5	20.0	-2.7	50.0
Chloroethane	Ave	0.2129	0.2075		19.5	20.0	-2.5	50.0
Dichlorofluoromethane	Ave	0.6746	0.6118		18.1	20.0	-9.3	50.0
Trichlorofluoromethane	Ave	0.5776	0.5683		19.7	20.0	-1.6	50.0
Ethanol	Ave	0.0017	0.0015		2600	3000	-13.2	50.0
Ethyl ether	Ave	0.2652	0.2425		18.3	20.0	-8.5	50.0
Isopropene	Ave	0.5271	0.4575		17.4	20.0	-13.2	50.0
Acrolein	Ave	0.0417	0.0310		223	300	-25.6	99.0
Freon TF	Ave	0.3850	0.3669		19.1	20.0	-4.7	50.0
1,1-Dichloroethene	Ave	0.3032	0.3108		20.5	20.0	2.5	20.0
Acetone	QuaF	0.0910	0.0824		21.5	20.0	7.7	50.0
Iodomethane	Ave	0.4618	0.3911		16.9	20.0	-15.3	50.0
Carbon disulfide	Ave	1.080	0.7196		13.3	20.0	-33.4	50.0
Acetonitrile	Ave	0.0752	0.0654		348	400	-13.1	50.0
Methyl acetate	Ave	0.0580	0.0674		23.2	20.0	16.0	50.0
Methylene Chloride	LinF	0.4026	0.3499		21.4	20.0	7.2	50.0
TBA	Ave	0.0325	0.0308		379	400	-5.3	50.0
Acrylonitrile	Ave	0.1062	0.0980		138	150	-7.7	50.0
trans-1,2-Dichloroethene	Ave	0.3764	0.3889		20.7	20.0	3.3	50.0
MTBE	Ave	0.8460	0.8687		20.5	20.0	2.7	50.0
Hexane	Ave	0.2912	0.2195		15.1	20.0	-24.6	50.0
1,1-Dichloroethane	Ave	0.6454	0.6232	0.1000	19.3	20.0	-3.4	50.0
DIPE	Ave	1.066	1.043		19.6	20.0	-2.2	50.0
Tert-butyl ethyl ether	Ave	0.9021	0.9052	0.0100	20.1	20.0	0.3	50.0
2,2-Dichloropropane	Ave	0.5642	0.5236		18.6	20.0	-7.2	50.0
cis-1,2-Dichloroethene	Ave	0.4097	0.4054		19.8	20.0	-1.0	50.0
2-Butanone	Ave	0.0353	0.0354		20.0	20.0	0.2	50.0
Ethyl acetate	Ave	0.0262	0.0264		40.4	40.0	0.9	50.0
Bromochloromethane	Ave	0.1856	0.1743		18.8	20.0	-6.1	50.0
Tetrahydrofuran	LinF	0.1283	0.1011		21.6	20.0	8.1	50.0
Chloroform	Ave	0.6280	0.5995		19.1	20.0	-4.5	20.0
1,1,1-Trichloroethane	Ave	0.5458	0.5622		20.6	20.0	3.0	50.0
Cyclohexane	Ave	0.7019	0.5620		16.0	20.0	-19.9	50.0
1,1-Dichloropropene	Ave	0.5292	0.5494		20.8	20.0	3.8	50.0
Carbon tetrachloride	Ave	0.4549	0.4649		20.4	20.0	2.2	50.0
Benzene	Ave	1.416	1.446		20.4	20.0	2.2	50.0
1,2-Dichloroethane	Ave	0.4039	0.3963		19.6	20.0	-1.9	50.0
Isopropyl acetate	Ave	0.5655	0.5854		41.4	40.0	3.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122246/2 Calibration Date: 08/02/2012 04:40

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62927.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-amyl methyl ether	Ave	0.7641	0.7814		20.5	20.0	2.3	50.0
Trichloroethene	Ave	0.3583	0.3737		20.9	20.0	4.3	50.0
n-Butanol	Ave	0.0043	0.0038		1340	1500	-10.7	50.0
Ethyl acrylate	Ave	0.0149	0.0151		20.3	20.0	1.6	50.0
Methylcyclohexane	Ave	0.6824	0.6070		17.8	20.0	-11.0	50.0
1,2-Dichloropropane	Ave	0.3330	0.3315		19.9	20.0	-0.4	20.0
Dibromomethane	Ave	0.1826	0.1801		19.7	20.0	-1.4	50.0
Methyl methacrylate	Ave	0.1834	0.1927		21.0	20.0	5.1	50.0
1,4-Dioxane	Ave	0.0039	0.0041		160	150	6.9	50.0
Bromodichloromethane	Ave	0.4228	0.4260		20.2	20.0	0.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1682	0.1708		20.3	20.0	1.6	50.0
Epichlorohydrin	Ave	0.0273	0.0265		388	400	-3.1	50.0
cis-1,3-Dichloropropene	Ave	0.4960	0.5258		21.2	20.0	6.0	50.0
4-Methyl-2-pentanone	Ave	0.2413	0.2504		20.7	20.0	3.7	50.0
Toluene	Ave	2.085	2.174		20.8	20.0	4.2	20.0
trans-1,3-Dichloropropene	LinF	0.5386	0.5818		19.0	20.0	-5.2	50.0
1,1,2-Trichloroethane	Ave	0.2811	0.2947		21.0	20.0	4.8	50.0
Tetrachloroethene	Ave	0.5743	0.6593		23.0	20.0	14.8	50.0
1,3-Dichloropropane	Ave	0.5973	0.6140		20.6	20.0	2.8	50.0
2-Hexanone	Ave	0.2204	0.2274		20.6	20.0	3.2	50.0
Dibromochloromethane	Ave	0.3867	0.4335		22.4	20.0	12.1	50.0
1,2-Dibromoethane	Ave	0.3379	0.3639		21.5	20.0	7.7	50.0
Butyl acetate	Ave	0.5449	0.5239		38.5	40.0	-3.9	50.0
Chlorobenzene	Ave	1.299	1.377	0.3000	21.2	20.0	6.1	50.0
1,1,1,2-Tetrachloroethane	LinF	0.4042	0.4493		19.2	20.0	-3.9	50.0
Ethylbenzene	Ave	0.7192	0.7975		22.2	20.0	10.9	20.0
m&p-Xylene	Ave	0.8935	0.9817		43.9	40.0	9.9	50.0
o-Xylene	Ave	0.8824	0.9224		20.9	20.0	4.5	50.0
Styrene	Ave	1.454	1.562		21.5	20.0	7.4	50.0
Butyl acrylate	Ave	1.203	1.141		19.0	20.0	-5.2	50.0
Bromoform	QuaF	0.2462	0.2827	0.1000	20.3	20.0	1.4	50.0
Amly acetate	Ave	0.3495	0.3331		19.1	20.0	-4.7	50.0
Isopropylbenzene	Ave	2.379	2.560		21.5	20.0	7.6	50.0
Camphene, Total	Ave	0.3405	0.3207		18.8	20.0	-5.8	50.0
Monobromobenzene	Ave	1.011	1.080		21.4	20.0	6.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7520	0.8070	0.3000	21.5	20.0	7.3	50.0
1,2,3-Trichloropropane	Ave	0.2286	0.2499		21.9	20.0	9.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0904	0.0901		19.9	20.0	-0.3	50.0
N-Propylbenzene	Ave	4.923	5.220		21.2	20.0	6.0	50.0
2-Chlorotoluene	Ave	2.754	2.798		20.3	20.0	1.6	50.0
p-Ethyltoluene	Ave	1.828	1.837		20.1	20.0	0.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122246/2 Calibration Date: 08/02/2012 04:40

Instrument ID: VOAMS12 Calib Start Date: 07/21/2012 00:10

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/21/2012 02:40

Lab File ID: o62927.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorotoluene	Ave	2.821	2.925		20.7	20.0	3.7	50.0
1,3,5-Trimethylbenzene	Ave	3.383	3.505		20.7	20.0	3.6	50.0
Butyl Methacrylate	LinF	0.9920	1.017		17.1	20.0	-14.3	50.0
tert-Butylbenzene	Ave	3.133	3.298		21.1	20.0	5.3	50.0
1,2,4-Trimethylbenzene	Ave	3.393	3.554		21.0	20.0	4.8	50.0
sec-Butylbenzene	Ave	4.744	5.059		21.3	20.0	6.6	50.0
1,3-Dichlorobenzene	Ave	2.016	2.168		21.5	20.0	7.5	50.0
1,4-Dichlorobenzene	Ave	2.006	2.164		21.6	20.0	7.9	50.0
p-Isopropyltoluene	Ave	3.932	4.206		21.4	20.0	7.0	50.0
Benzyl chloride	LinF	1.259	1.366		17.1	20.0	-14.5	50.0
1,2-Dichlorobenzene	Ave	1.881	2.028		21.6	20.0	7.8	50.0
1,4-Diethylbenzene	Ave	1.101	1.126		20.5	20.0	2.3	50.0
n-Butylbenzene	Ave	4.396	4.538		20.6	20.0	3.2	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.1757	0.1627		19.3	20.0	-3.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.616	1.716		21.2	20.0	6.2	50.0
Camphor	Ave	0.0846	0.0927		110	100	9.6	50.0
1,2,4-Trichlorobenzene	Ave	1.543	1.678		21.8	20.0	8.8	50.0
Hexachlorobutadiene	Ave	0.9775	1.122		23.0	20.0	14.8	50.0
Naphthalene	Ave	3.002	3.295		22.0	20.0	9.8	50.0
1,2,3-Trichlorobenzene	Ave	1.396	1.572		22.5	20.0	12.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2054	0.1814		44.2	50.0	-11.7	50.0
Toluene-d8 (Surr)	Ave	1.014	0.9949		49.1	50.0	-1.9	50.0
Bromofluorobenzene	Ave	0.7005	0.7135		50.9	50.0	1.9	50.0

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o62905.d

Lab ID: LCS 460-122212/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	17.4	87	50-151	
Bromomethane	20.0	21.6	108	54-142	
Vinyl chloride	20.0	15.7	78	67-133	
Chloroethane	20.0	18.4	92	56-146	
Methylene Chloride	20.0	21.4	107	74-137	
Acetone	20.0	17.9	90	27-164	
Carbon disulfide	20.0	18.6	93	72-128	
Trichlorofluoromethane	20.0	21.2	106	61-139	
1,1-Dichloroethene	20.0	20.2	101	71-126	
1,1-Dichloroethane	20.0	18.9	95	76-125	
trans-1,2-Dichloroethene	20.0	19.6	98	75-122	
cis-1,2-Dichloroethene	20.0	20.1	100	80-120	
Chloroform	20.0	20.3	102	77-120	
2-Butanone	20.0	18.0	90	77-117	
1,2-Dichloroethane	20.0	20.0	100	76-118	
1,1,1-Trichloroethane	20.0	21.4	107	78-117	
Carbon tetrachloride	20.0	21.1	106	79-118	
Benzene	20.0	20.6	103	77-117	
Bromoform	20.0	18.8	94	59-125	
Styrene	20.0	22.1	110	82-122	
Ethylbenzene	20.0	21.3	107	81-121	
Chlorobenzene	20.0	20.8	104	80-120	
Cyclohexane	20.0	19.7	98	80-121	
Isopropylbenzene	20.0	21.7	109	65-129	
2-Hexanone	20.0	17.3	87	70-122	
MTBE	20.0	18.8	94	78-120	
Freon TF	20.0	19.3	96	73-123	
Methyl acetate	20.0	16.9	85	73-137	
1,4-Dioxane	150	151	101	69-131	
Trichloroethene	20.0	19.9	100	79-119	
Toluene	20.0	20.2	101	75-115	
trans-1,3-Dichloropropene	20.0	16.8	84	67-121	
4-Methyl-2-pentanone	20.0	17.2	86	68-120	
cis-1,3-Dichloropropene	20.0	20.4	102	80-123	
1,2-Dichlorobenzene	20.0	21.2	106	80-120	
1,3-Dichlorobenzene	20.0	21.5	107	80-120	
1,4-Dichlorobenzene	20.0	20.7	103	80-120	
1,2,4-Trichlorobenzene	20.0	22.1	111	80-120	
1,2,3-Trichlorobenzene	20.0	22.2	111	75-121	
1,2-Dichloropropane	20.0	19.4	97	82-122	
Methylcyclohexane	20.0	19.9	99	78-118	
Tetrachloroethene	20.0	22.2	111	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o62905.d

Lab ID: LCS 460-122212/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Xylenes, Total	60.0	65.1	109	82-122	
1,2-Dibromo-3-Chloropropane	20.0	18.9	94	74-118	
1,1,2,2-Tetrachloroethane	20.0	18.6	93	79-122	
1,1,2-Trichloroethane	20.0	20.3	102	73-118	
Dibromochloromethane	20.0	20.5	102	68-120	
1,2-Dibromoethane	20.0	20.6	103	75-117	
Dichlorodifluoromethane	20.0	12.0	60	52-144	
Bromochloromethane	20.0	20.4	102	74-125	
Bromodichloromethane	20.0	19.9	100	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o62906.d

Lab ID: LCSD 460-122212/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	20.0	18.5	92	6	30	50-151	
Bromomethane	20.0	22.7	114	5	30	54-142	
Vinyl chloride	20.0	21.3	106	30	30	67-133	
Chloroethane	20.0	25.1	125	31	30	56-146	*
Methylene Chloride	20.0	21.1	106	1	30	74-137	
Acetone	20.0	17.8	89	0	30	27-164	
Carbon disulfide	20.0	18.1	90	3	30	72-128	
Trichlorofluoromethane	20.0	22.8	114	8	30	61-139	
1,1-Dichloroethene	20.0	20.1	100	0	30	71-126	
1,1-Dichloroethane	20.0	19.1	95	1	30	76-125	
trans-1,2-Dichloroethene	20.0	19.7	98	0	30	75-122	
cis-1,2-Dichloroethene	20.0	20.0	100	1	30	80-120	
Chloroform	20.0	20.2	101	1	30	77-120	
2-Butanone	20.0	16.6	83	8	30	77-117	
1,2-Dichloroethane	20.0	19.7	99	1	30	76-118	
1,1,1-Trichloroethane	20.0	20.9	104	3	30	78-117	
Carbon tetrachloride	20.0	20.7	103	2	30	79-118	
Benzene	20.0	19.8	99	4	30	77-117	
Bromoform	20.0	17.2	86	9	30	59-125	
Styrene	20.0	20.2	101	9	30	82-122	
Ethylbenzene	20.0	19.7	99	8	30	81-121	
Chlorobenzene	20.0	19.4	97	7	30	80-120	
Cyclohexane	20.0	18.8	94	4	30	80-121	
Isopropylbenzene	20.0	20.2	101	7	30	65-129	
2-Hexanone	20.0	16.2	81	7	30	70-122	
MTBE	20.0	18.0	90	4	30	78-120	
Freon TF	20.0	19.4	97	1	30	73-123	
Methyl acetate	20.0	14.7	74	14	30	73-137	
1,4-Dioxane	150	176	117	15	30	69-131	
Trichloroethene	20.0	20.4	102	3	30	79-119	
Toluene	20.0	18.9	94	7	30	75-115	
trans-1,3-Dichloropropene	20.0	15.7	79	6	30	67-121	
4-Methyl-2-pentanone	20.0	17.4	87	1	30	68-120	
cis-1,3-Dichloropropene	20.0	19.7	99	4	30	80-123	
1,2-Dichlorobenzene	20.0	20.2	101	5	30	80-120	
1,3-Dichlorobenzene	20.0	19.9	99	8	30	80-120	
1,4-Dichlorobenzene	20.0	19.8	99	4	30	80-120	
1,2,4-Trichlorobenzene	20.0	21.0	105	5	30	80-120	
1,2,3-Trichlorobenzene	20.0	21.1	105	5	30	75-121	
1,2-Dichloropropane	20.0	19.1	96	1	30	82-122	
Methylcyclohexane	20.0	19.7	98	1	30	78-118	
Tetrachloroethene	20.0	20.4	102	8	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o62906.d

Lab ID: LCSD 460-122212/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Xylenes, Total	60.0	60.6	101	7	30	82-122	
1,2-Dibromo-3-Chloropropane	20.0	17.5	87	8	30	74-118	
1,1,2,2-Tetrachloroethane	20.0	18.0	90	4	30	79-122	
1,1,2-Trichloroethane	20.0	18.8	94	8	30	73-118	
Dibromochloromethane	20.0	19.3	97	6	30	68-120	
1,2-Dibromoethane	20.0	19.1	96	8	30	75-117	
Dichlorodifluoromethane	20.0	17.3	86	36	30	52-144	*
Bromochloromethane	20.0	19.3	97	5	30	74-125	
Bromodichloromethane	20.0	19.7	99	1	30	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-42919-1 Analy Batch No.: 120552

SDG No.:

Instrument ID: BNAMS5 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/19/2012 02:12 Calibration End Date: 07/19/2012 05:37 Calibration ID: 16465

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-120552/6	x28359.d
Level 2	IC 460-120552/5	x28358.d
Level 3	IC 460-120552/4	x28357.d
Level 4	ICIS 460-120552/2	x28354.d
Level 5	IC 460-120552/7	x28360.d
Level 6	IC 460-120552/3	x28355.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.5950 0.5810	0.5990	0.5807	0.5524	0.5520	Ave		0.5767				3.5		15.0			
N-Nitrosodimethylamine	0.7905 0.7813	0.8197	0.7815	0.7509	0.7629	Ave		0.7811				3.0		15.0			
Pyridine	1.4582 1.3617	1.4551	1.3755	1.3248	1.3112	Ave		1.3811				4.6		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2371	+++++	Ave		0.2371						15.0			
Benzaldehyde	0.9289 +++++	0.7254	0.6095	0.3838	0.1976	Ave		0.5691				50.3	*	15.0			
Aniline	2.1281 +++++	2.0308	1.8781	1.6931	1.6457	Ave		1.8751				11.1		15.0			
Phenol	1.9534 1.5521	1.8995	1.8674	1.5769	1.4798	Ave		1.7215				12.0		30.0			
Bis(2-chloroethyl)ether	1.5715 1.7287	1.3837	1.3240	1.2445	1.2459	QuaF		0.9366	-0.068						0.9975		0.9900
2-Chlorophenol	1.6464 1.3077	1.5803	1.6186	1.4120	1.3162	Ave		1.4802				10.4		15.0			
Decane	1.4702 1.1689	1.3688	1.4054	1.2545	1.1234	Ave		1.2985				10.6		15.0			
1,3-Dichlorobenzene	1.8185 1.5835	1.7845	1.7045	1.6403	1.5388	Ave		1.6783				6.6		15.0			
1,4-Dichlorobenzene	1.8327 1.5549	1.7793	1.6808	1.6098	1.5280	Ave		1.6642				7.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122155/2 Calibration Date: 08/01/2012 00:41

Instrument ID: BNAMS5 Calib Start Date: 07/19/2012 02:12

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/19/2012 05:37

Lab File ID: x28776.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5767	0.5617		48700	50000	-2.6	20.0
N-Nitrosodimethylamine	Ave	0.7811	0.7586		48600	50000	-2.9	20.0
Pyridine	Ave	1.381	1.307		47300	50000	-5.4	20.0
Benzaldehyde	Ave	0.5691	0.4179		36700	50000	-26.6*	20.0
Aniline	Ave	1.875	1.752		46700	50000	-6.6	20.0
Phenol	Ave	1.721	1.583		46000	50000	-8.1	20.0
Bis(2-chloroethyl)ether	QuaF	1.416	1.278		52800	50000	5.7	20.0
2-Chlorophenol	Ave	1.480	1.415		47800	50000	-4.4	20.0
Decane	Ave	1.299	1.332		51300	50000	2.6	20.0
1,3-Dichlorobenzene	Ave	1.678	1.607		47900	50000	-4.3	20.0
1,4-Dichlorobenzene	Ave	1.664	1.601		48100	50000	-3.8	20.0
Benzyl alcohol	Ave	0.7828	0.7066		45100	50000	-9.7	20.0
1,2-Dichlorobenzene	Ave	1.541	1.474		47800	50000	-4.3	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.405	1.405		50000	50000	0.0	20.0
2-Methylphenol	Ave	1.162	1.079		46500	50000	-7.1	20.0
Acetophenone	Ave	1.650	1.585		48000	50000	-4.0	20.0
N-Nitrosodi-n-propylamine	Ave	0.8460	0.8374	0.0500	49500	50000	-1.0	20.0
3 & 4 Methylphenol	QuaF	1.181	1.092		51400	50000	2.7	20.0
4-Methylphenol	Ave	1.157	1.081		46700	50000	-6.6	20.0
Hexachloroethane	Ave	0.6187	0.6215		50200	50000	0.4	20.0
Nitrobenzene	Ave	0.4848	0.4786		49400	50000	-1.3	20.0
n,n'-Dimethylaniline	Ave	1.978	1.898		48000	50000	-4.1	20.0
Isophorone	Ave	0.6069	0.6036		49700	50000	-0.6	20.0
2-Nitrophenol	Ave	0.2138	0.2077		48600	50000	-2.8	20.0
2,4-Dimethylphenol	Ave	0.3180	0.2868		45100	50000	-9.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3724	0.3749		50300	50000	0.7	20.0
Benzoic acid	Ave	0.1784	0.1925		54000	50000	7.9	20.0
2,4-Dichlorophenol	Ave	0.2842	0.2737		48200	50000	-3.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3283	0.3166		48200	50000	-3.5	20.0
Naphthalene	Ave	1.058	1.018		48100	50000	-3.8	20.0
4-Chloroaniline	Ave	0.3901	0.3798		48700	50000	-2.6	20.0
Hexachlorobutadiene	Ave	0.1909	0.1852		48500	50000	-3.0	20.0
Caprolactam	Ave	0.0861	0.0761		44200	50000	-11.6	20.0
4-Chloro-3-methylphenol	Ave	0.2710	0.2607		48100	50000	-3.8	20.0
2-Methylnaphthalene	Ave	0.6618	0.6275		47400	50000	-5.2	20.0
1-Methylnaphthalene	Ave	0.6755	0.6409		47400	50000	-5.1	20.0
Hexachlorocyclopentadiene	Ave	0.3314	0.3496	0.0500	52700	50000	5.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6409	0.6132		47800	50000	-4.3	20.0
2-tertbutyl-4-methylphenol	Ave	0.4522	0.4308		47600	50000	-4.7	20.0
2,4,6-Trichlorophenol	Ave	0.3882	0.3734		48100	50000	-3.8	20.0
2,4,5-Trichlorophenol	Ave	0.3986	0.3782		47400	50000	-5.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122155/2 Calibration Date: 08/01/2012 00:41

Instrument ID: BNAMS5 Calib Start Date: 07/19/2012 02:12

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/19/2012 05:37

Lab File ID: x28776.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.575	1.490		47300	50000	-5.4	20.0
2-Chloronaphthalene	Ave	1.222	1.160		47500	50000	-5.1	20.0
Diphenyl ether	Ave	0.8680	0.8357		48100	50000	-3.7	20.0
2-Nitroaniline	Ave	0.3192	0.3158		49500	50000	-1.1	20.0
Dimethylnaphthalene, total	Ave	1.037	0.9923		47900	50000	-4.3	20.0
Coumarin	Ave	0.1960	0.1748		44600	50000	-10.8	20.0
Dimethyl phthalate	Ave	1.227	1.132		46100	50000	-7.7	20.0
2,6-Dinitrotoluene	Ave	0.2895	0.2725		47100	50000	-5.9	20.0
Acenaphthylene	Ave	1.868	1.774		47500	50000	-5.0	20.0
3-Nitroaniline	Ave	0.2944	0.2622		44500	50000	-10.9	20.0
Acenaphthene	Ave	1.075	1.045		48600	50000	-2.8	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.024	1.023		49900	50000	-0.2	20.0
2,4-Dinitrophenol	Ave	0.1400	0.1206	0.0500	43100	50000	-13.9	20.0
4-Nitrophenol	Ave	0.1844	0.1648	0.0500	44700	50000	-10.7	20.0
2,4-Dinitrotoluene	Ave	0.3470	0.3107		44800	50000	-10.5	20.0
Dibenzofuran	Ave	1.566	1.478		47200	50000	-5.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2695	0.2421		44900	50000	-10.2	20.0
Diethyl phthalate	Ave	1.168	1.079		46200	50000	-7.7	20.0
Fluorene	Ave	1.248	1.155		46300	50000	-7.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.5846	0.5454		46600	50000	-6.7	20.0
4-Nitroaniline	QuaF	0.2498	0.2071		39900	50000	-20.3*	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1456	0.1371		47100	50000	-5.8	20.0
N-Nitrosodiphenylamine	Ave	0.6401	0.6231		48700	50000	-2.7	20.0
1,2-Diphenylhydrazine	Ave	1.014	1.104		54400	50000	8.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2588	0.2563		49500	50000	-1.0	20.0
Hexachlorobenzene	Ave	0.2776	0.2693		48500	50000	-3.0	20.0
Atrazine	Ave	0.2150	0.1954		45400	50000	-9.1	20.0
Pentachlorophenol	Ave	0.1557	0.1444		46400	50000	-7.2	20.0
Pentachloronitrobenzene	Ave	0.1079	0.1009		46700	50000	-6.5	
n-Octadecane	Ave	0.5026	0.5694		56700	50000	13.3	20.0
Phenanthrene	Ave	1.151	1.109		48100	50000	-3.7	20.0
Anthracene	Ave	1.168	1.135		48600	50000	-2.9	20.0
Carbazole	Ave	0.9834	0.8895		45200	50000	-9.5	20.0
Di-n-butyl phthalate	Ave	1.255	1.186		47300	50000	-5.5	20.0
Fluoranthene	Ave	1.046	0.9628		46000	50000	-7.9	20.0
Benzidine	Ave	0.1974	0.0725		18400	50000	-63.3*	20.0
Pyrene	Ave	1.716	1.735		50600	50000	1.1	20.0
Butyl benzyl phthalate	Ave	0.7076	0.6985		49400	50000	-1.3	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2371	0.2225		470	500	-6.1	20.0
Carbamazepine	Ave	0.4726	0.4892		51800	50000	3.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-42919-1

SDG No.:

Lab Sample ID: CCVIS 460-122155/2 Calibration Date: 08/01/2012 00:41

Instrument ID: BNAMS5 Calib Start Date: 07/19/2012 02:12

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 07/19/2012 05:37

Lab File ID: x28776.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	QuaF	0.3584	0.3317		49700	50000	-0.5	20.0
Benzo[a]anthracene	Ave	1.235	1.175		47600	50000	-4.8	20.0
Chrysene	Ave	1.150	1.167		50800	50000	1.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9429	0.9162		48600	50000	-2.8	20.0
Di-n-octyl phthalate	Ave	1.806	1.525		42200	50000	-15.5	20.0
Benzo[b]fluoranthene	Ave	1.231	1.198		48600	50000	-2.7	20.0
Benzo[k]fluoranthene	Ave	1.308	1.260		48200	50000	-3.6	20.0
Benzo[a]pyrene	Ave	0.9560	0.9678		50600	50000	1.2	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.7403	0.8398		54300	50000	8.6	20.0
Dibenz(a,h)anthracene	QuaF	0.7631	0.9006		56900	50000	13.8	20.0
Benzo[g,h,i]perylene	Ave	0.7677	0.9296		60500	50000	21.1*	20.0
2-Fluorophenol	Ave	1.372	1.271		46300	50000	-7.4	20.0
Phenol-d5	Ave	1.526	1.388		45500	50000	-9.0	20.0
Nitrobenzene-d5	Ave	0.3884	0.3914		50400	50000	0.8	20.0
2-Fluorobiphenyl	Ave	1.459	1.413		48400	50000	-3.1	20.0
2,4,6-Tribromophenol	Ave	0.1902	0.1700		44700	50000	-10.6	20.0
Terphenyl-d14	Ave	1.250	1.206		48300	50000	-3.5	20.0

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): JENNIFER PFEIFFER	Samplers Name (Printed): S WRIGHT	Site/Project Identification: EQUITY MGP
Company: AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☑ Other:
Address: 20 EXCHANGE PLACE, 13TH FLOOR	Analysis Turnaround Time: Standard ☐	Regulatory Program:
City: MANHATTAN State: NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☑ 24HR	
Phone: 212-798-8549 Fax:		

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs 8260B	SVOCs 8270C	TOTAL CYANIDE	TOTAL IRON	DISSOLVED IRON	SALINITY	RCRA 8 METALS					LAB USE ONLY Sample Numbers
MW-8A*	8-11-12	1545	GW	6	X	X	X				X					-1
MW-8B**	8-11-12	1630	GW	7	X	X	X	X	X		X					-2
MW-8C**	8-11-12	1600	GW	7	X	X	X	X	X		X					-3
[illegible]			[illegible]													
SB-20J**	8-11-12	1715	GW	7	X	X		X	X	X						-4
* STANDARD TAT																
** RUSH TAT																

Job No: 43466

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH Soil:
6 = Other _____, 7 = Other _____ Water:

LAB FILTER DISS. IRON ANALYSES

Special Instructions: RESULTS TO: GREG.MALONE@AECOM.COM EDD TO: COLLEEN.SCOTT@AECOM.COM
Water Metals Filtered (Yes/No)? NO

	Company	Date / Time		Company
Relinquished by 1)	AECOM	8-13-12 11:36	Received by 1) (1 COOLER)	TANC
Relinquished by 2)	TANC	8-13-12 1855	Received by 2)	TA Edison
Relinquished by 3)			Received by 3)	
Relinquished by 4)			Received by 4)	

SUB WORK

Laboratory Certifications: New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North [illegible] .578)

1.4 #10 1 COOLER

3-Day RUSH

08/21/2012

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TestAmerica Edison
Sample pH Receipt Log

Job No. 460-43466

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other
1				<2							>12		
2				<2							>12		
3				<2							>12		
4				<2									

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: SR Date: 8/14/12

EDS-WI-038, Rev 2, 05/09/12

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-43466-1

Login Number: 43466
List Number: 1
Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C IR#50
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-43466-1

Login Number: 43466
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 08/15/12 11:17 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-43466-1 Analy Batch No.: 123206

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/08/2012 21:03 Calibration End Date: 08/09/2012 00:34 Calibration ID: 16824

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	0.3734 0.5052	0.5584	0.4989	0.5278	0.5144	Ave		0.4964				12.9		15.0			
Carbon tetrachloride	0.2226 0.4196	0.4201	0.3866	0.4315	0.4255	LinF		0.4205							0.9999		0.9900
1,1-Dichloropropene	0.3066 0.4696	0.4885	0.4417	0.4852	0.4841	LinF		0.4718							0.9998		0.9900
Benzene	1.5255 1.6722	1.7856	1.5990	1.6915	1.6900	Ave		1.6606				5.4		15.0			
Isopropyl acetate	0.8566 0.7410	0.8514	0.8041	0.7321	0.7423	Ave		0.7879				7.3		15.0			
Tert-amyl methyl ether	1.0006 1.0319	1.1116	1.0773	1.0274	1.0290	Ave		1.0463				3.9		15.0			
1,2-Dichloroethane	0.4082 0.4093	0.4735	0.4136	0.4233	0.4133	Ave		0.4235				5.9		15.0			
n-Heptane	0.1354 0.1391	0.1297	0.1226	0.1452	0.1445	Ave		0.1361				6.5		15.0			
n-Butanol	0.0089 0.0122	0.0083	0.0097	0.0092	0.0108	Ave		0.0098				14.6		15.0			
Trichloroethene	0.2779 0.3361	0.3591	0.3153	0.3427	0.3383	Ave		0.3282				8.6		15.0			
Ethyl acrylate	0.0365 0.0297	0.0313	0.0304	0.0291	0.0284	Ave		0.0309				9.4		15.0			
Methylcyclohexane	0.2048 0.4581	0.3753	0.3834	0.4782	0.4754	LinF		0.4607							0.9997		0.9900
1,2-Dichloropropane	0.3305 0.3383	0.3792	0.3310	0.3456	0.3352	Ave		0.3433				5.4		30.0			
Methyl methacrylate	0.0775 0.0860	0.0926	0.0868	0.0805	0.0826	Ave		0.0843				6.3		15.0			
1,4-Dioxane	0.0037 +++++	0.0038	0.0039	0.0040	0.0048	Ave		0.0040				11.1		15.0			
Propyl acetate	0.2334 0.2094	0.2253	0.2230	0.2014	0.2048	Ave		0.2162				5.9		15.0			
Dibromomethane	0.2038 0.2102	0.2361	0.2082	0.2136	0.2089	Ave		0.2135				5.4		15.0			
Bromodichloromethane	0.3832 0.4395	0.4537	0.3995	0.4243	0.4286	Ave		0.4215				6.2		15.0			
2-Chloroethyl vinyl ether	0.1967 0.2056	0.2198	0.2120	0.1963	0.2003	Ave		0.2051				4.5		15.0			
Epichlorohydrin	0.0403 0.0388	0.0400	0.0400	0.0358	0.0382	Ave		0.0388				4.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

1, 2, 4

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124105/2 Calibration Date: 08/15/2012 08:47

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03362.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3515	0.3297		18.8	20.0	-6.2	50.0
Chloromethane	Ave	0.5281	0.4790	0.1000	18.1	20.0	-9.3	50.0
Vinyl chloride	Ave	0.5061	0.4603		18.2	20.0	-9.1	20.0
Bromomethane	Ave	0.2896	0.2462		17.0	20.0	-15.0	50.0
Chloroethane	Ave	0.2571	0.2150		16.7	20.0	-16.4	50.0
Trichlorofluoromethane	Ave	0.5159	0.5005		19.4	20.0	-3.0	50.0
Ethanol	Ave	0.0018	0.0016		2650	3000	-11.5	50.0
Ethyl ether	Ave	0.2638	0.2781		21.1	20.0	5.4	50.0
Isopropene	Ave	0.4844	0.5003		20.7	20.0	3.3	50.0
Acrolein	Ave	0.0562	0.0532		37.9	40.0	-5.3	99.0
Freon TF	LinF	0.3026	0.3588		21.5	20.0	7.6	50.0
1,1-Dichloroethene	Ave	0.2739	0.2358		17.2	20.0	-13.9	20.0
Acetone	Ave	0.0940	0.1023		21.8	20.0	8.8	50.0
Iodomethane	Ave	0.6135	0.6721		21.9	20.0	9.6	50.0
Carbon disulfide	Ave	1.177	1.310		22.2	20.0	11.2	50.0
Methyl acetate	LinF	0.3439	0.3680		26.0	20.0	29.9	50.0
Acetonitrile	Ave	0.0095	0.0104		435	400	8.7	50.0
Methylene Chloride	Ave	0.3940	0.3262		16.6	20.0	-17.2	50.0
TBA	Ave	0.0377	0.0426		452	400	13.0	50.0
MTBE	Ave	1.030	1.134		22.0	20.0	10.1	50.0
trans-1,2-Dichloroethene	Ave	0.3413	0.2893		17.0	20.0	-15.2	50.0
Acrylonitrile	Ave	0.1201	0.1104		18.4	20.0	-8.0	50.0
Hexane	LinF	0.1779	0.2107		21.3	20.0	6.4	50.0
DIPE	Ave	1.137	1.197		21.1	20.0	5.3	50.0
1,1-Dichloroethane	Ave	0.6164	0.5376	0.1000	17.4	20.0	-12.8	50.0
Vinyl acetate	LinF	1.787	0.9560		24.1	40.0	-39.7	50.0
Tert-butyl ethyl ether	Ave	1.129	1.202	0.0100	21.3	20.0	6.5	50.0
2,2-Dichloropropane	Ave	0.5178	0.4447		17.2	20.0	-14.1	50.0
cis-1,2-Dichloroethene	Ave	0.3901	0.3412		17.5	20.0	-12.5	50.0
2-Butanone	Ave	0.0394	0.0431		21.9	20.0	9.6	50.0
Ethyl acetate	Ave	0.0374	0.0388		41.6	40.0	3.9	50.0
Bromochloromethane	Ave	0.1877	0.1682		17.9	20.0	-10.4	50.0
Tetrahydrofuran	LinF	0.1261	0.1308		26.0	20.0	29.8	50.0
Chloroform	Ave	0.5971	0.5258		17.6	20.0	-11.9	20.0
Cyclohexane	LinF	0.4944	0.5757		21.0	20.0	4.9	50.0
1,1,1-Trichloroethane	Ave	0.4964	0.4301		17.3	20.0	-13.3	50.0
Carbon tetrachloride	LinF	0.3843	0.3325		15.8	20.0	-20.9	50.0
1,1-Dichloropropene	LinF	0.4460	0.3862		16.4	20.0	-18.1	50.0
Benzene	Ave	1.661	1.526		18.4	20.0	-8.1	50.0
Isopropyl acetate	Ave	0.7879	0.8387		42.6	40.0	6.4	50.0
Tert-amyl methyl ether	Ave	1.046	1.128		21.6	20.0	7.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124105/2 Calibration Date: 08/15/2012 08:47

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03362.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4235	0.3667		17.3	20.0	-13.4	50.0
n-Heptane	Ave	0.1361	0.1601		23.5	20.0	17.7	50.0
n-Butanol	Ave	0.0098	0.0087		1320	1500	-11.7	50.0
Trichloroethene	Ave	0.3282	0.2776		16.9	20.0	-15.4	50.0
Ethyl acrylate	Ave	0.0309	0.0330		21.3	20.0	6.6	50.0
Methylcyclohexane	LinF	0.3959	0.4865		21.1	20.0	5.6	50.0
1,2-Dichloropropane	Ave	0.3433	0.2953		17.2	20.0	-14.0	20.0
Methyl methacrylate	Ave	0.0843	0.0932		22.1	20.0	10.5	50.0
1,4-Dioxane	Ave	0.0040	0.0036		132	150	-11.7	50.0
Dibromomethane	Ave	0.2135	0.1877		17.6	20.0	-12.1	50.0
Propyl acetate	Ave	0.2162	0.4726		43.7	20.0	118.6*	50.0
Bromodichloromethane	Ave	0.4215	0.3667		17.4	20.0	-13.0	50.0
2-Chloroethyl vinyl ether	Ave	0.2051	0.2212		21.6	20.0	7.8	50.0
Epichlorohydrin	Ave	0.0388	0.0473		487	400	21.8	50.0
cis-1,3-Dichloropropene	Ave	0.6534	0.5977		18.3	20.0	-8.5	50.0
4-Methyl-2-pentanone	Ave	0.3797	0.4465		23.5	20.0	17.6	50.0
Toluene	Ave	1.746	1.591		18.2	20.0	-8.9	20.0
trans-1,3-Dichloropropene	Ave	0.5613	0.5198		18.5	20.0	-7.4	50.0
1,1,2-Trichloroethane	Ave	0.3082	0.2906		18.9	20.0	-5.7	50.0
Tetrachloroethene	LinF	0.3699	0.3513		17.5	20.0	-12.4	50.0
1,3-Dichloropropane	Ave	0.5783	0.5543		19.2	20.0	-4.1	50.0
2-Hexanone	Ave	0.2481	0.2837		22.9	20.0	14.3	50.0
Butyl acetate	Ave	0.0934	0.1089		46.6	40.0	16.6	50.0
Dibromochloromethane	Ave	0.3704	0.3506		18.9	20.0	-5.3	50.0
1,2-Dibromoethane	Ave	0.3600	0.3450		19.2	20.0	-4.2	50.0
Chlorobenzene	Ave	1.074	0.999	0.3000	18.6	20.0	-7.0	50.0
Ethylbenzene	Ave	0.5650	0.5184		18.3	20.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3941	0.3580		18.2	20.0	-9.2	50.0
m&p-Xylene	Ave	0.7021	0.6509		37.1	40.0	-7.3	50.0
Butyl acrylate	Ave	0.3255	0.3732		22.9	20.0	14.6	50.0
o-Xylene	Ave	0.7300	0.6860		18.8	20.0	-6.0	50.0
Styrene	Ave	1.219	1.149		18.9	20.0	-5.7	50.0
Amly acetate	Ave	0.8094	0.9563		23.6	20.0	18.2	50.0
Bromoform	Ave	0.2426	0.2391	0.1000	19.7	20.0	-1.4	50.0
Isopropylbenzene	LinF	1.681	1.630		18.1	20.0	-9.6	50.0
Camphene, Total	Ave	0.0883	0.1065		24.1	20.0	20.7	50.0
Monobromobenzene	Ave	0.8769	0.8394		19.1	20.0	-4.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8887	0.8962	0.3000	20.2	20.0	0.9	50.0
N-Propylbenzene	LinF	3.576	3.580		19.7	20.0	-1.5	50.0
1,2,3-Trichloropropane	Ave	0.2272	0.2277		20.1	20.0	0.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2172	0.2504		23.1	20.0	15.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124105/2 Calibration Date: 08/15/2012 08:47

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03362.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	2.589	2.548		19.7	20.0	-1.6	50.0
1,3,5-Trimethylbenzene	LinF	2.539	2.491		18.4	20.0	-8.0	50.0
4-Chlorotoluene	Ave	2.320	2.223		19.2	20.0	-4.2	50.0
Butyl Methacrylate	Ave	1.082	1.263		23.4	20.0	16.8	50.0
tert-Butylbenzene	LinF	1.875	1.833		17.1	20.0	-14.7	50.0
1,2,4-Trimethylbenzene	Ave	2.677	2.624		19.6	20.0	-2.0	50.0
2-Octanone	Ave	1.276	1.518		23.8	20.0	19.0	50.0
sec-Butylbenzene	LinF	2.789	2.880		18.9	20.0	-5.3	50.0
p-Isopropyltoluene	LinF	2.404	2.433		18.8	20.0	-6.2	50.0
1,3-Dichlorobenzene	Ave	1.537	1.523		19.8	20.0	-0.9	50.0
1,4-Dichlorobenzene	Ave	1.566	1.542		19.7	20.0	-1.5	50.0
Benzyl chloride	Ave	1.720	2.052		23.9	20.0	19.3	50.0
n-Butylbenzene	LinF	2.538	2.757		20.4	20.0	2.2	50.0
1,2-Dichlorobenzene	Ave	1.529	1.542		20.2	20.0	0.9	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1635	0.1578		19.3	20.0	-3.5	50.0
Camphor	Ave	0.1112	0.1435		129	100	29.0	50.0
1,2,4-Trichlorobenzene	Ave	0.9846	1.025		20.8	20.0	4.1	50.0
Hexachlorobutadiene	Ave	0.3355	0.3668		21.9	20.0	9.3	50.0
Naphthalene	Ave	2.746	2.753		20.1	20.0	0.3	50.0
1,2,3-Trichlorobenzene	Ave	0.9335	0.9461		20.3	20.0	1.4	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3374	0.2979		44.1	50.0	-11.7	50.0
Toluene-d8 (Surr)	Ave	1.353	1.282		47.4	50.0	-5.3	50.0
Bromofluorobenzene	Ave	0.8440	0.8138		48.2	50.0	-3.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124213/2 Calibration Date: 08/15/2012 20:28

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03392.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3515	0.2998		17.1	20.0	-14.7	50.0
Chloromethane	Ave	0.5281	0.4215	0.1000	16.0	20.0	-20.2	50.0
Vinyl chloride	Ave	0.5061	0.4165		16.5	20.0	-17.7	20.0
Bromomethane	Ave	0.2896	0.2651		18.3	20.0	-8.4	50.0
Chloroethane	Ave	0.2571	0.2198		17.1	20.0	-14.5	50.0
Trichlorofluoromethane	Ave	0.5159	0.4609		17.9	20.0	-10.7	50.0
Ethanol	Ave	0.0018	0.0014		2450	3000	-18.3	50.0
Ethyl ether	Ave	0.2638	0.2557		19.4	20.0	-3.1	50.0
Isopropene	Ave	0.4844	0.4799		19.8	20.0	-0.9	50.0
Acrolein	Ave	0.0562	0.0537		38.2	40.0	-4.6	99.0
Freon TF	LinF	0.3026	0.3731		22.4	20.0	11.8	50.0
1,1-Dichloroethene	Ave	0.2739	0.2627		19.2	20.0	-4.1	20.0
Acetone	Ave	0.0940	0.0843		17.9	20.0	-10.3	50.0
Iodomethane	Ave	0.6135	0.6471		21.1	20.0	5.5	50.0
Carbon disulfide	Ave	1.177	1.265		21.5	20.0	7.4	50.0
Methyl acetate	LinF	0.3439	0.3052		21.5	20.0	7.7	50.0
Acetonitrile	Ave	0.0095	0.0089		373	400	-6.7	50.0
Methylene Chloride	Ave	0.3940	0.3635		18.5	20.0	-7.7	50.0
TBA	Ave	0.0377	0.0333		353	400	-11.6	50.0
MTBE	Ave	1.030	1.011		19.6	20.0	-1.9	50.0
trans-1,2-Dichloroethene	Ave	0.3413	0.3171		18.6	20.0	-7.1	50.0
Acrylonitrile	Ave	0.1201	0.1157		19.3	20.0	-3.6	50.0
Hexane	LinF	0.1779	0.2039		20.6	20.0	3.0	50.0
DIPE	Ave	1.137	1.107		19.5	20.0	-2.6	50.0
1,1-Dichloroethane	Ave	0.6164	0.5748	0.1000	18.6	20.0	-6.8	50.0
Vinyl acetate	LinF	1.787	0.8521		21.5	40.0	-46.2	50.0
Tert-butyl ethyl ether	Ave	1.129	1.100	0.0100	19.5	20.0	-2.5	50.0
2,2-Dichloropropane	Ave	0.5178	0.5029		19.4	20.0	-2.9	50.0
cis-1,2-Dichloroethene	Ave	0.3901	0.3729		19.1	20.0	-4.4	50.0
2-Butanone	Ave	0.0394	0.0370		18.8	20.0	-6.0	50.0
Ethyl acetate	Ave	0.0374	0.0326		34.8	40.0	-12.9	50.0
Tetrahydrofuran	LinF	0.1261	0.1020		20.2	20.0	1.2	50.0
Bromochloromethane	Ave	0.1877	0.1815		19.3	20.0	-3.3	50.0
Chloroform	Ave	0.5971	0.5694		19.1	20.0	-4.6	20.0
Cyclohexane	LinF	0.4944	0.5724		20.9	20.0	4.3	50.0
1,1,1-Trichloroethane	Ave	0.4964	0.4798		19.3	20.0	-3.3	50.0
Carbon tetrachloride	LinF	0.3843	0.3742		17.8	20.0	-11.0	50.0
1,1-Dichloropropene	LinF	0.4460	0.4173		17.7	20.0	-11.5	50.0
Benzene	Ave	1.661	1.553		18.7	20.0	-6.5	50.0
Isopropyl acetate	Ave	0.7879	0.7357		37.3	40.0	-6.6	50.0
Tert-amyl methyl ether	Ave	1.046	1.031		19.7	20.0	-1.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124213/2 Calibration Date: 08/15/2012 20:28

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03392.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4235	0.3894		18.4	20.0	-8.1	50.0
n-Heptane	Ave	0.1361	0.1527		22.4	20.0	12.2	50.0
n-Butanol	Ave	0.0098	0.0077		1180	1500	-21.4	50.0
Trichloroethene	Ave	0.3282	0.2994		18.2	20.0	-8.8	50.0
Ethyl acrylate	Ave	0.0309	0.0290		18.7	20.0	-6.4	50.0
Methylcyclohexane	LinF	0.3959	0.4794		20.8	20.0	4.1	50.0
1,2-Dichloropropane	Ave	0.3433	0.3193		18.6	20.0	-7.0	20.0
Methyl methacrylate	Ave	0.0843	0.0793		18.8	20.0	-5.9	50.0
1,4-Dioxane	Ave	0.0040	0.0033		123	150	-17.9	50.0
Propyl acetate	Ave	0.2162	0.3998		37.0	20.0	84.9*	50.0
Dibromomethane	Ave	0.2135	0.1974		18.5	20.0	-7.5	50.0
Bromodichloromethane	Ave	0.4215	0.3899		18.5	20.0	-7.5	50.0
2-Chloroethyl vinyl ether	Ave	0.2051	0.1890		18.4	20.0	-7.9	50.0
Epichlorohydrin	Ave	0.0388	0.0369		380	400	-5.0	50.0
cis-1,3-Dichloropropene	Ave	0.6534	0.6003		18.4	20.0	-8.1	50.0
4-Methyl-2-pentanone	Ave	0.3797	0.3548		18.7	20.0	-6.6	50.0
Toluene	Ave	1.746	1.624		18.6	20.0	-7.0	20.0
trans-1,3-Dichloropropene	Ave	0.5613	0.5070		18.1	20.0	-9.7	50.0
1,1,2-Trichloroethane	Ave	0.3082	0.2877		18.7	20.0	-6.7	50.0
Tetrachloroethene	LinF	0.3699	0.3707		18.5	20.0	-7.5	50.0
1,3-Dichloropropane	Ave	0.5783	0.5512		19.1	20.0	-4.7	50.0
2-Hexanone	Ave	0.2481	0.2244		18.1	20.0	-9.5	50.0
Butyl acetate	Ave	0.0934	0.0889		38.1	40.0	-4.8	50.0
Dibromochloromethane	Ave	0.3704	0.3482		18.8	20.0	-6.0	50.0
1,2-Dibromoethane	Ave	0.3600	0.3466		19.3	20.0	-3.7	50.0
Chlorobenzene	Ave	1.074	1.050	0.3000	19.6	20.0	-2.2	50.0
Ethylbenzene	Ave	0.5650	0.5472		19.4	20.0	-3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3941	0.3639		18.5	20.0	-7.7	50.0
m&p-Xylene	Ave	0.7021	0.6798		38.7	40.0	-3.2	50.0
Butyl acrylate	Ave	0.3255	0.3092		19.0	20.0	-5.0	50.0
o-Xylene	Ave	0.7300	0.7148		19.6	20.0	-2.1	50.0
Styrene	Ave	1.219	1.186		19.5	20.0	-2.7	50.0
Amly acetate	Ave	0.8094	0.7430		18.4	20.0	-8.2	50.0
Bromoform	Ave	0.2426	0.2222	0.1000	18.3	20.0	-8.4	50.0
Isopropylbenzene	LinF	1.681	1.700		18.9	20.0	-5.7	50.0
Camphene, Total	Ave	0.0883	0.0907		20.6	20.0	2.8	50.0
Monobromobenzene	Ave	0.8769	0.8670		19.8	20.0	-1.1	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8887	0.8399	0.3000	18.9	20.0	-5.5	50.0
N-Propylbenzene	LinF	3.576	3.653		20.1	20.0	0.5	50.0
1,2,3-Trichloropropane	Ave	0.2272	0.2127		18.7	20.0	-6.4	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2172	0.1936		17.8	20.0	-10.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124213/2 Calibration Date: 08/15/2012 20:28

Instrument ID: VOAMS9 Calib Start Date: 08/08/2012 21:03

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 08/09/2012 00:34

Lab File ID: k03392.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	2.589	2.585		20.0	20.0	-0.1	50.0
1,3,5-Trimethylbenzene	LinF	2.539	2.543		18.8	20.0	-6.1	50.0
4-Chlorotoluene	Ave	2.320	2.235		19.3	20.0	-3.6	50.0
Butyl Methacrylate	Ave	1.082	1.055		19.5	20.0	-2.5	50.0
tert-Butylbenzene	LinF	1.875	1.875		17.5	20.0	-12.7	50.0
1,2,4-Trimethylbenzene	Ave	2.677	2.641		19.7	20.0	-1.3	50.0
2-Octanone	Ave	1.276	1.140		17.9	20.0	-10.6	50.0
sec-Butylbenzene	LinF	2.789	2.973		19.6	20.0	-2.2	50.0
1,3-Dichlorobenzene	Ave	1.537	1.555		20.2	20.0	1.2	50.0
p-Isopropyltoluene	LinF	2.404	2.498		19.3	20.0	-3.6	50.0
1,4-Dichlorobenzene	Ave	1.566	1.568		20.0	20.0	0.1	50.0
Benzyl chloride	Ave	1.720	1.550		18.0	20.0	-9.9	50.0
n-Butylbenzene	LinF	2.538	2.756		20.4	20.0	2.2	50.0
1,2-Dichlorobenzene	Ave	1.529	1.574		20.6	20.0	3.0	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1635	0.1289		15.8	20.0	-21.1	50.0
Camphor	Ave	0.1112	0.0878		78.9	100	-21.1	50.0
1,2,4-Trichlorobenzene	Ave	0.9846	0.9688		19.7	20.0	-1.6	50.0
Hexachlorobutadiene	Ave	0.3355	0.3622		21.6	20.0	8.0	50.0
Naphthalene	Ave	2.746	2.657		19.4	20.0	-3.2	50.0
1,2,3-Trichlorobenzene	Ave	0.9335	0.8382		18.0	20.0	-10.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3374	0.3271		48.5	50.0	-3.1	50.0
Toluene-d8 (Surr)	Ave	1.353	1.380		51.0	50.0	2.0	50.0
Bromofluorobenzene	Ave	0.8440	0.8508		50.4	50.0	0.8	50.0

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
MW-8A	460-43466-1	100	101	102
MW-8B	460-43466-2	97	98	101
MW-8C	460-43466-3	97	98	100
SB-20J	460-43466-4	102	103	105
	MB 460-124105/4	96	99	103
	MB 460-124213/4	99	99	101
	LCS 460-124105/3	94	101	103
	LCS 460-124213/3	94	98	99
	460-43162-B-1 MS	99	102	104
	460-43326-A-1 MS	98	100	101
	460-43162-B-1 MSD	93	95	98
	460-43326-A-1 MSD	93	95	97

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = Bromofluorobenzene	70-130

Column to be used to flag recovery values

FORM II 8260B

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-43466-1 Analy Batch No.: 123774

SDG No.:

Instrument ID: BNAMS5 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/11/2012 12:32 Calibration End Date: 08/11/2012 14:22 Calibration ID: 16865

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-123774/7	x29156.d
Level 2	IC 460-123774/6	x29155.d
Level 3	IC 460-123774/5	x29154.d
Level 4	ICIS 460-123774/2	x29151.d
Level 5	IC 460-123774/4	x29153.d
Level 6	IC 460-123774/3	x29152.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.6359 0.5797	0.6280	0.6010	0.5289	0.5363	Ave		0.5850				7.7		15.0			
N-Nitrosodimethylamine	0.8633 0.8065	0.8241	0.7962	0.7579	0.7593	Ave		0.8012				5.0		15.0			
Pyridine	1.4857 1.3825	1.5226	1.4204	1.3075	1.3238	Ave		1.4071				6.1		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.1861	+++++	Ave		0.1861						15.0			
Benzaldehyde	1.0012 +++++	0.9420	0.8323	0.5451	0.3358	Ave		0.7313				38.6	*	15.0			
Aniline	2.2279 +++++	2.1517	1.9625	1.8411	1.6253	Ave		1.9617				12.3		15.0			
Phenol	1.9120 1.6543	1.8582	1.8754	1.6076	1.4740	Ave		1.7303				10.2		30.0			
Bis(2-chloroethyl)ether	1.3223 1.7562	1.4118	1.3433	1.2835	1.3050	Ave		1.4037				12.7		15.0			
2-Chlorophenol	1.5617 1.3297	1.5368	1.5589	1.3659	1.2736	Ave		1.4378				9.0		15.0			
Decane	1.4853 1.2443	1.4103	1.4479	1.3346	1.2109	Ave		1.3556				8.2		15.0			
1,3-Dichlorobenzene	1.8770 1.5455	1.8447	1.7169	1.6270	1.5065	Ave		1.6863				9.1		15.0			
1,4-Dichlorobenzene	1.8452 1.4758	1.8269	1.7461	1.5948	1.4563	Ave		1.6575				10.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124155/2 Calibration Date: 08/15/2012 11:29

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29317.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5850	0.5490		46900	50000	-6.2	20.0
N-Nitrosodimethylamine	Ave	0.8012	0.8003		49900	50000	-0.1	20.0
Pyridine	Ave	1.407	1.391		49400	50000	-1.2	20.0
Benzaldehyde	Ave	0.7313	0.4301		29400	50000	-41.2*	20.0
Aniline	Ave	1.962	1.818		46300	50000	-7.3	20.0
Phenol	Ave	1.730	1.453		42000	50000	-16.0	20.0
Bis(2-chloroethyl)ether	Ave	1.404	1.278		45500	50000	-9.0	20.0
2-Chlorophenol	Ave	1.438	1.339		46600	50000	-6.9	20.0
Decane	Ave	1.356	1.368		50500	50000	0.9	20.0
1,3-Dichlorobenzene	Ave	1.686	1.588		47100	50000	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.658	1.588		47900	50000	-4.2	20.0
Benzyl alcohol	Ave	0.7345	0.6566		44700	50000	-10.6	20.0
1,2-Dichlorobenzene	Ave	1.529	1.470		48100	50000	-3.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.478	1.360		46000	50000	-8.0	20.0
2-Methylphenol	Ave	1.167	1.057		45300	50000	-9.4	20.0
Acetophenone	Ave	1.707	1.611		47200	50000	-5.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.9302	0.8763	0.0500	47100	50000	-5.8	20.0
3 & 4 Methylphenol	Ave	1.159	1.101		47500	50000	-5.0	20.0
4-Methylphenol	Ave	1.136	1.094		48100	50000	-3.7	20.0
Hexachloroethane	Ave	0.5900	0.6139		52000	50000	4.0	20.0
Nitrobenzene	Ave	0.5285	0.5432		51400	50000	2.8	20.0
n,n'-Dimethylaniline	Ave	1.868	1.858		49700	50000	-0.5	20.0
Isophorone	Ave	0.6532	0.6007		46000	50000	-8.0	20.0
2-Nitrophenol	Ave	0.2097	0.2005		47800	50000	-4.4	20.0
2,4-Dimethylphenol	Ave	0.3243	0.3014		46500	50000	-7.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3953	0.3802		48100	50000	-3.8	20.0
2,4-Dichlorophenol	Ave	0.3014	0.2753		45700	50000	-8.7	20.0
Benzoic acid	Ave	0.1801	0.1529		42500	50000	-15.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3525	0.3287		46600	50000	-6.7	20.0
Naphthalene	Ave	1.073	1.028		47900	50000	-4.2	20.0
4-Chloroaniline	Ave	0.3822	0.3613		47300	50000	-5.5	20.0
Hexachlorobutadiene	Ave	0.2115	0.2036		48100	50000	-3.7	20.0
Caprolactam	Ave	0.0814	0.0791		48600	50000	-2.9	20.0
4-Chloro-3-methylphenol	Ave	0.2847	0.2641		46400	50000	-7.2	20.0
2-Methylnaphthalene	Ave	0.6676	0.6309		47300	50000	-5.5	20.0
1-Methylnaphthalene	Ave	0.6879	0.6546		47600	50000	-4.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6651	0.7026		52800	50000	5.6	20.0
Hexachlorocyclopentadiene	LinF	0.2937	0.3761	0.0500	54200	50000	8.5	20.0
2-tertbutyl-4-methylphenol	Ave	0.4387	0.4365		49700	50000	-0.5	20.0
2,4,6-Trichlorophenol	Ave	0.4058	0.3933		48500	50000	-3.1	20.0
2,4,5-Trichlorophenol	Ave	0.4095	0.4024		49100	50000	-1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124155/2 Calibration Date: 08/15/2012 11:29

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29317.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.492	1.607		53900	50000	7.7	20.0
2-Chloronaphthalene	Ave	1.171	1.186		50600	50000	1.3	20.0
Diphenyl ether	Ave	0.8763	0.8689		49600	50000	-0.8	20.0
2-Nitroaniline	Ave	0.3752	0.3486		46400	50000	-7.1	20.0
1,3-Dimethylnaphthalene	Ave	1.013	1.053		52000	50000	4.0	20.0
Coumarin	Ave	0.1907	0.1795		47100	50000	-5.9	20.0
Dimethyl phthalate	Ave	1.172	1.157		49400	50000	-1.3	20.0
2,6-Dinitrotoluene	Ave	0.2835	0.2680		47300	50000	-5.5	20.0
Acenaphthylene	Ave	1.845	1.829		49600	50000	-0.8	20.0
3-Nitroaniline	Ave	0.2712	0.2675		49300	50000	-1.3	20.0
Acenaphthene	Ave	1.069	1.108		51900	50000	3.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.010	1.118		55400	50000	10.7	20.0
2,4-Dinitrophenol	QuaF	0.1226	0.1124	0.0500	43400	50000	-13.3	20.0
4-Nitrophenol	Ave	0.1914	0.2226	0.0500	58100	50000	16.3	20.0
Dibenzofuran	Ave	1.551	1.592		51300	50000	2.6	20.0
2,4-Dinitrotoluene	Ave	0.3403	0.3310		48600	50000	-2.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2868	0.2759		48100	50000	-3.8	20.0
Diethyl phthalate	Ave	1.103	1.097		49800	50000	-0.5	20.0
Fluorene	Ave	1.209	1.259		52100	50000	4.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6206	0.6301		50800	50000	1.5	20.0
4-Nitroaniline	Ave	0.2230	0.2155		48300	50000	-3.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1351	0.1277		47300	50000	-5.5	20.0
N-Nitrosodiphenylamine	Ave	0.6205	0.6103		49200	50000	-1.7	20.0
1,2-Diphenylhydrazine	Ave	1.014	1.097		54100	50000	8.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2769	0.2575		46500	50000	-7.0	20.0
Hexachlorobenzene	Ave	0.3139	0.2693		42900	50000	-14.2	20.0
Atrazine	Ave	0.1998	0.1973		49400	50000	-1.3	20.0
Pentachlorophenol	Ave	0.1517	0.1362		44900	50000	-10.2	20.0
Pentachloronitrobenzene	Ave	0.0987	0.0973		49300	50000	-1.5	
n-Octadecane	Ave	0.5411	0.5616		51900	50000	3.8	20.0
Phenanthrene	Ave	1.123	1.141		50800	50000	1.5	20.0
Anthracene	Ave	1.118	1.126		50300	50000	0.7	20.0
Carbazole	Ave	0.8942	0.8858		49500	50000	-0.9	20.0
Di-n-butyl phthalate	Ave	1.096	1.114		50800	50000	1.6	20.0
Fluoranthene	Ave	0.9662	0.9689		50100	50000	0.3	20.0
Benzidine	Ave	0.1454	0.0475		16300	50000	-67.3*	20.0
Pyrene	Ave	1.647	1.653		50200	50000	0.3	20.0
Butyl benzyl phthalate	Ave	0.5997	0.5992		50000	50000	-0.0	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1861	0.1499		403	500	-19.4	20.0
Carbamazepine	Ave	0.4361	0.4638		53200	50000	6.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124155/2 Calibration Date: 08/15/2012 11:29

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29317.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	QuaF	0.3512	0.3275		47500	50000	-5.0	20.0
Benzo[a]anthracene	Ave	1.228	1.173		47800	50000	-4.5	20.0
Chrysene	Ave	1.111	1.082		48700	50000	-2.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7828	0.7909		50500	50000	1.0	20.0
Di-n-octyl phthalate	Ave	1.414	1.408		49800	50000	-0.4	20.0
Benzo[b]fluoranthene	Ave	1.197	1.097		45800	50000	-8.4	20.0
Benzo[k]fluoranthene	Ave	1.304	1.309		50200	50000	0.4	20.0
Benzo[a]pyrene	Ave	0.9586	0.9480		49400	50000	-1.1	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.8358	0.8452		45100	50000	-9.9	20.0
Dibenz(a,h)anthracene	Ave	0.9113	0.9109		50000	50000	-0.0	20.0
Benzo[g,h,i]perylene	Ave	0.9346	0.9429		50400	50000	0.9	20.0
2-Fluorophenol	Ave	1.304	1.232		47300	50000	-5.5	20.0
Phenol-d5	Ave	1.564	1.452		46400	50000	-7.2	20.0
Nitrobenzene-d5	Ave	0.4198	0.4172		49700	50000	-0.6	20.0
2-Fluorobiphenyl	Ave	1.471	1.471		50000	50000	0.0	20.0
2,4,6-Tribromophenol	Ave	0.2082	0.1762		42300	50000	-15.4	20.0
Terphenyl-d14	Ave	1.242	1.133		45600	50000	-8.8	20.0

Used for Naphthalene and 2-Methylnaphthalene only.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124258/2 Calibration Date: 08/16/2012 02:11

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29353.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5850	0.5210		44500	50000	-10.9	20.0
N-Nitrosodimethylamine	Ave	0.8012	0.8011		50000	50000	-0.0	20.0
Pyridine	Ave	1.407	1.390		49400	50000	-1.2	20.0
Benzaldehyde	Ave	0.7313	0.3104		21200	50000	-57.6*	20.0
Aniline	Ave	1.962	1.858		47400	50000	-5.3	20.0
Phenol	Ave	1.730	1.681		48600	50000	-2.8	20.0
Bis(2-chloroethyl)ether	Ave	1.404	1.320		47000	50000	-5.9	20.0
2-Chlorophenol	Ave	1.438	1.374		47800	50000	-4.4	20.0
Decane	Ave	1.356	1.274		47000	50000	-6.0	20.0
1,3-Dichlorobenzene	Ave	1.686	1.588		47100	50000	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.658	1.601		48300	50000	-3.4	20.0
1,2-Dichlorobenzene	Ave	1.529	1.486		48600	50000	-2.8	20.0
Benzyl alcohol	Ave	0.7345	0.7693		52400	50000	4.7	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.478	1.400		47400	50000	-5.3	20.0
2-Methylphenol	Ave	1.167	1.129		48400	50000	-3.2	20.0
Acetophenone	Ave	1.707	1.711		50100	50000	0.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.9302	0.9090	0.0500	48900	50000	-2.3	20.0
3 & 4 Methylphenol	Ave	1.159	1.176		50800	50000	1.5	20.0
4-Methylphenol	Ave	1.136	1.149		50500	50000	1.1	20.0
Hexachloroethane	Ave	0.5900	0.6028		51100	50000	2.2	20.0
n,n'-Dimethylaniline	Ave	1.868	1.950		52200	50000	4.4	20.0
Nitrobenzene	Ave	0.5285	0.5371		50800	50000	1.6	20.0
Isophorone	Ave	0.6532	0.6293		48200	50000	-3.7	20.0
2-Nitrophenol	Ave	0.2097	0.2042		48700	50000	-2.6	20.0
2,4-Dimethylphenol	Ave	0.3243	0.2987		46100	50000	-7.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3953	0.3852		48700	50000	-2.6	20.0
2,4-Dichlorophenol	Ave	0.3014	0.2858		47400	50000	-5.2	20.0
Benzoic acid	Ave	0.1801	0.1889		52500	50000	4.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3525	0.3297		46800	50000	-6.4	20.0
Naphthalene	Ave	1.073	1.024		47700	50000	-4.6	20.0
4-Chloroaniline	Ave	0.3822	0.3536		46300	50000	-7.5	20.0
Hexachlorobutadiene	Ave	0.2115	0.2050		48500	50000	-3.1	20.0
Caprolactam	Ave	0.0814	0.0760		46700	50000	-6.7	20.0
4-Chloro-3-methylphenol	Ave	0.2847	0.2788		49000	50000	-2.1	20.0
2-Methylnaphthalene	Ave	0.6676	0.6470		48500	50000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6879	0.6685		48600	50000	-2.8	20.0
Hexachlorocyclopentadiene	LinF	0.2937	0.3841	0.0500	55400	50000	10.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6651	0.6794		51100	50000	2.1	20.0
2-tertbutyl-4-methylphenol	Ave	0.4387	0.4589		52300	50000	4.6	20.0
2,4,6-Trichlorophenol	Ave	0.4058	0.3930		48400	50000	-3.2	20.0
2,4,5-Trichlorophenol	Ave	0.4095	0.3957		48300	50000	-3.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124258/2 Calibration Date: 08/16/2012 02:11

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29353.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.492	1.524		51100	50000	2.1	20.0
2-Chloronaphthalene	Ave	1.171	1.153		49300	50000	-1.5	20.0
Diphenyl ether	Ave	0.8763	0.8532		48700	50000	-2.6	20.0
2-Nitroaniline	Ave	0.3752	0.3573		47600	50000	-4.8	20.0
1,3-Dimethylnaphthalene	Ave	1.013	1.007		49700	50000	-0.6	20.0
Coumarin	Ave	0.1907	0.1842		48300	50000	-3.5	20.0
Dimethyl phthalate	Ave	1.172	1.135		48400	50000	-3.2	20.0
2,6-Dinitrotoluene	Ave	0.2835	0.2653		46800	50000	-6.4	20.0
Acenaphthylene	Ave	1.845	1.791		48500	50000	-2.9	20.0
3-Nitroaniline	Ave	0.2712	0.2494		46000	50000	-8.0	20.0
Acenaphthene	Ave	1.069	1.051		49200	50000	-1.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.010	1.123		55600	50000	11.2	20.0
2,4-Dinitrophenol	QuaF	0.1226	0.1341	0.0500	51100	50000	2.2	20.0
4-Nitrophenol	Ave	0.1914	0.2025	0.0500	52900	50000	5.8	20.0
Dibenzofuran	Ave	1.551	1.534		49400	50000	-1.1	20.0
2,4-Dinitrotoluene	Ave	0.3403	0.3176		46700	50000	-6.7	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2868	0.2738		47700	50000	-4.5	20.0
Diethyl phthalate	Ave	1.103	1.081		49000	50000	-2.0	20.0
Fluorene	Ave	1.209	1.229		50800	50000	1.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.6206	0.6148		49500	50000	-0.9	20.0
4-Nitroaniline	Ave	0.2230	0.1936		43400	50000	-13.2	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1351	0.1371		50800	50000	1.5	20.0
N-Nitrosodiphenylamine	Ave	0.6205	0.6181		49800	50000	-0.4	20.0
1,2-Diphenylhydrazine	Ave	1.014	1.116		55000	50000	10.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2769	0.2659		48000	50000	-4.0	20.0
Hexachlorobenzene	Ave	0.3139	0.2790		44400	50000	-11.1	20.0
Atrazine	Ave	0.1998	0.1918		48000	50000	-4.0	20.0
Pentachlorophenol	Ave	0.1517	0.1510		49800	50000	-0.4	20.0
Pentachloronitrobenzene	Ave	0.0987	0.0984		49800	50000	-0.3	
n-Octadecane	Ave	0.5411	0.5628		52000	50000	4.0	20.0
Phenanthrene	Ave	1.123	1.112		49500	50000	-1.0	20.0
Anthracene	Ave	1.118	1.113		49800	50000	-0.5	20.0
Carbazole	Ave	0.8942	0.8547		47800	50000	-4.4	20.0
Di-n-butyl phthalate	Ave	1.096	1.100		50200	50000	0.3	20.0
Fluoranthene	Ave	0.9662	0.9319		48200	50000	-3.5	20.0
Benzidine	Ave	0.1454	0.0211		7240	50000	-85.5*	20.0
Pyrene	Ave	1.647	1.692		51400	50000	2.7	20.0
Butyl benzyl phthalate	Ave	0.5997	0.6232		52000	50000	3.9	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1861	0.1725		463	500	-7.3	20.0
Carbamazepine	Ave	0.4361	0.4737		54300	50000	8.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Lab Sample ID: CCVIS 460-124258/2 Calibration Date: 08/16/2012 02:11

Instrument ID: BNAMS5 Calib Start Date: 08/11/2012 12:32

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 08/11/2012 14:22

Lab File ID: x29353.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	QuaF	0.3512	0.3104		44300	50000	-11.4	20.0
Benzo[a]anthracene	Ave	1.228	1.160		47200	50000	-5.5	20.0
Chrysene	Ave	1.111	1.123		50500	50000	1.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7828	0.8370		53500	50000	6.9	20.0
Di-n-octyl phthalate	Ave	1.414	1.604		56700	50000	13.5	20.0
Benzo[b]fluoranthene	Ave	1.197	1.096		45800	50000	-8.4	20.0
Benzo[k]fluoranthene	Ave	1.304	1.315		50400	50000	0.9	20.0
Benzo[a]pyrene	Ave	0.9586	0.9480		49400	50000	-1.1	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.8358	0.8057		43000	50000	-14.1	20.0
Dibenz(a,h)anthracene	Ave	0.9113	0.8597		47200	50000	-5.7	20.0
Benzo[g,h,i]perylene	Ave	0.9346	0.8409		45000	50000	-10.0	20.0
2-Fluorophenol	Ave	1.304	1.290		49500	50000	-1.1	20.0
Phenol-d5	Ave	1.564	1.552		49600	50000	-0.7	20.0
Nitrobenzene-d5	Ave	0.4198	0.4213		50200	50000	0.3	20.0
2-Fluorobiphenyl	Ave	1.471	1.453		49400	50000	-1.2	20.0
2,4,6-Tribromophenol	Ave	0.2082	0.1719		41300	50000	-17.4	20.0
Terphenyl-d14	Ave	1.242	1.203		48400	50000	-3.1	20.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x29326.d

Lab ID: LCS 460-123929/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	100	29.5	29	12-44	
2-Chlorophenol	100	78.8	79	53-101	
2-Methylphenol	100	63.6	64	40-90	
4-Methylphenol	100	60.0	60	30-75	
Benzaldehyde	100	118	118	52-150	
Acetophenone	100	82.0	82	68-109	
Bis(2-chloroethyl)ether	100	77.7	78	62-108	
2,2'-oxybis[1-chloropropane]	100	78.5	78	68-107	
N-Nitrosodi-n-propylamine	100	80.2	80	70-109	
Nitrobenzene	100	86.3	86	66-106	
Hexachloroethane	100	87.3	87	50-99	
Isophorone	100	66.5	66	68-108	*
2-Nitrophenol	100	80.4	80	65-107	
2,4-Dimethylphenol	100	79.1	79	55-100	
2,4-Dichlorophenol	100	82.6	83	64-107	
Bis(2-chloroethoxy)methane	100	83.7	84	69-108	
Naphthalene	100	82.1	82	63-101	
4-Chloroaniline	100	72.7	73	58-105	
Hexachlorobutadiene	100	82.5	83	52-99	
Caprolactam	100	16.4	16	10-30	
4-Chloro-3-methylphenol	100	78.3	78	57-106	
2-Methylnaphthalene	100	80.2	80	66-102	
Hexachlorobenzene	100	73.9	74	65-107	
Hexachlorocyclopentadiene	100	70.3	70	40-105	
2,4,6-Trichlorophenol	100	83.3	83	67-111	
2,4,5-Trichlorophenol	100	85.6	86	67-114	
Diphenyl	100	94.8	95	66-112	
2-Chloronaphthalene	100	86.9	87	65-107	
2-Nitroaniline	100	83.3	83	73-116	
2,6-Dinitrotoluene	100	80.0	80	68-114	
Dimethyl phthalate	100	85.5	85	69-111	
Acenaphthylene	100	83.1	83	67-107	
3-Nitroaniline	100	89.2	89	59-108	
Acenaphthene	100	85.5	85	66-108	
4-Nitrophenol	100	36.9	37	10-44	
2,4-Dinitrophenol	100	66.4	66	19-113	
Dibenzofuran	100	85.2	85	68-105	
Diethyl phthalate	100	86.2	86	66-109	
Fluorene	100	86.8	87	68-105	
Fluoranthene	100	91.9	92	68-108	
Di-n-butyl phthalate	100	88.8	89	68-111	
2,4-Dinitrotoluene	100	82.8	83	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x29326.d

Lab ID: LCS 460-123929/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	86.4	86	68-105	
4-Nitroaniline	100	93.5	93	49-119	
4,6-Dinitro-2-methylphenol	100	79.1	79	58-115	
4-Bromophenyl phenyl ether	100	80.6	81	66-110	
Atrazine	100	41.4	41	56-116	*
Anthracene	100	86.1	86	68-108	
Carbazole	100	92.7	93	67-110	
Phenanthrene	100	86.0	86	68-110	
Pentachlorophenol	100	66.7	67	55-116	
Pyrene	100	76.0	76	61-110	
Chrysene	100	85.3	85	68-112	
Benzo[k]fluoranthene	100	87.5	88	66-114	
Benzo[g,h,i]perylene	100	90.6	91	65-134	
Benzo[b]fluoranthene	100	71.9	72	65-111	
Benzo[a]pyrene	100	81.8	82	58-101	
Benzo[a]anthracene	100	81.1	81	65-106	
N-Nitrosodiphenylamine	100	90.4	90	71-121	
Butyl benzyl phthalate	100	84.4	84	66-115	
Bis(2-ethylhexyl) phthalate	100	84.9	85	66-114	
Di-n-octyl phthalate	100	81.1	81	51-115	
Indeno[1,2,3-cd]pyrene	100	74.5	74	68-121	
Dibenz(a,h)anthracene	100	88.4	88	67-124	
3,3'-Dichlorobenzidine	100	106	106	69-129	
1,2,4,5-Tetrachlorobenzene	100	81.4	81	70-130	
2,3,4,6-Tetrachlorophenol	100	77.6	78	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x29327.d

Lab ID: LCSD 460-123929/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	100	21.9	22	29	30	12-44	
2-Chlorophenol	100	64.1	64	21	30	53-101	
2-Methylphenol	100	51.7	52	21	30	40-90	
4-Methylphenol	100	47.1	47	24	30	30-75	
Benzaldehyde	100	97.0	97	20	30	52-150	
Acetophenone	100	70.8	71	15	30	68-109	
Bis(2-chloroethyl)ether	100	67.1	67	15	30	62-108	
2,2'-oxybis[1-chloropropane]	100	68.0	68	14	30	68-107	
N-Nitrosodi-n-propylamine	100	71.2	71	12	30	70-109	
Nitrobenzene	100	75.1	75	14	30	66-106	
Hexachloroethane	100	68.8	69	24	30	50-99	
Isophorone	100	66.6	67	0	30	68-108	*
2-Nitrophenol	100	71.9	72	11	30	65-107	
2,4-Dimethylphenol	100	68.2	68	15	30	55-100	
2,4-Dichlorophenol	100	71.6	72	14	30	64-107	
Bis(2-chloroethoxy)methane	100	74.6	75	12	30	69-108	
Naphthalene	100	69.1	69	17	30	63-101	
4-Chloroaniline	100	71.7	72	1	30	58-105	
Hexachlorobutadiene	100	70.2	70	16	30	52-99	
Caprolactam	100	11.8	12	32	30	10-30	*
4-Chloro-3-methylphenol	100	68.3	68	14	30	57-106	
2-Methylnaphthalene	100	68.9	69	15	30	66-102	
Hexachlorobenzene	100	68.9	69	7	30	65-107	
Hexachlorocyclopentadiene	100	63.3	63	11	30	40-105	
2,4,6-Trichlorophenol	100	75.5	76	10	30	67-111	
2,4,5-Trichlorophenol	100	78.9	79	8	30	67-114	
Diphenyl	100	83.7	84	12	30	66-112	
2-Chloronaphthalene	100	76.6	77	13	30	65-107	
2-Nitroaniline	100	74.7	75	11	30	73-116	
2,6-Dinitrotoluene	100	73.5	73	9	30	68-114	
Dimethyl phthalate	100	78.5	78	9	30	69-111	
Acenaphthylene	100	74.8	75	10	30	67-107	
3-Nitroaniline	100	83.1	83	7	30	59-108	
Acenaphthene	100	79.1	79	8	30	66-108	
4-Nitrophenol	100	30.5	31	19	30	10-44	
2,4-Dinitrophenol	100	66.4	66	0	30	19-113	
Dibenzofuran	100	78.6	79	8	30	68-105	
Diethyl phthalate	100	81.3	81	6	30	66-109	
Fluorene	100	81.4	81	6	30	68-105	
Fluoranthene	100	89.5	90	3	30	68-108	
Di-n-butyl phthalate	100	89.7	90	1	30	68-111	
2,4-Dinitrotoluene	100	78.3	78	6	30	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x29327.d

Lab ID: LCSD 460-123929/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	79.1	79	9	30	68-105	
4-Nitroaniline	100	85.7	86	9	30	49-119	
4,6-Dinitro-2-methylphenol	100	79.6	80	1	30	58-115	
4-Bromophenyl phenyl ether	100	72.4	72	11	30	66-110	
Atrazine	100	60.3	60	37	30	56-116	*
Anthracene	100	82.9	83	4	30	68-108	
Carbazole	100	86.7	87	7	30	67-110	
Phenanthrene	100	82.4	82	4	30	68-110	
Pentachlorophenol	100	72.7	73	9	30	55-116	
Pyrene	100	77.5	77	2	30	61-110	
Chrysene	100	86.7	87	2	30	68-112	
Benzo[k]fluoranthene	100	86.6	87	1	30	66-114	
Benzo[g,h,i]perylene	100	89.6	90	1	30	65-134	
Benzo[b]fluoranthene	100	71.5	72	0	30	65-111	
Benzo[a]pyrene	100	85.7	86	5	30	58-101	
Benzo[a]anthracene	100	82.0	82	1	30	65-106	
N-Nitrosodiphenylamine	100	86.0	86	5	30	71-121	
Butyl benzyl phthalate	100	85.1	85	1	30	66-115	
Bis(2-ethylhexyl) phthalate	100	88.4	88	4	30	66-114	
Di-n-octyl phthalate	100	81.1	81	0	30	51-115	
Indeno[1,2,3-cd]pyrene	100	74.7	75	0	30	68-121	
Dibenz(a,h)anthracene	100	87.1	87	1	30	67-124	
3,3'-Dichlorobenzidine	100	102	102	4	30	69-129	
1,2,4,5-Tetrachlorobenzene	100	72.1	72	12	30	70-130	
2,3,4,6-Tetrachlorophenol	100	72.8	73	6	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
MW-8A	460-43466-1	42		24		86		85		67		75	
MW-8B	460-43466-2	47		29		97		102		80		93	
MW-8C	460-43466-3	42		28		107		84		72		78	
MW-8C DL	460-43466-3 DL	0	D	0	D	0	D	0	D	0	D	0	D
SB-20J	460-43466-4	53		36		102		103		93		104	
	MB 460-123929/1-A	42		26		82		81		61		72	
	LCS 460-123929/2-A	43		25		83		82		67		69	
	LCSD 460-123929/3-A	29		17		71		74		63		70	

	QC LIMITS
2FP = 2-Fluorophenol	10-65
PHL = Phenol-d5	10-48
NBZ = Nitrobenzene-d5	56-112
FBP = 2-Fluorobiphenyl	53-108
TBP = 2,4,6-Tribromophenol	46-122
TPH = Terphenyl-d14	50-122

Column to be used to flag recovery values

FORM II 8270C

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-124178/8 08/15/2012 11:11		CCB 460-124178/56 08/15/2012 14:05		CCB 460-124178/68 08/15/2012 14:49		CCB 460-124178/80 08/15/2012 15:32	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	4.10	J	3.7	U	3.7	U
Barium	200	5.9	U	5.9	U	5.9	U	5.9	U
Cadmium	5.0	0.82	U	0.82	U	0.82	U	0.82	U
Chromium	10.0	4.5	U	4.5	U	4.5	U	4.5	U
Iron	150	73.6	U	73.6	U	73.6	U	73.6	U
Lead	5.0	4.0	U	4.0	U	4.0	U	4.0	U
Selenium	10.0	5.8	U	5.8	U	5.8	U	5.8	U
Silver	10.0	1.3	U	1.3	U	1.3	U	1.3	U

Not associated with any field samples.

Italicized analytes were not requested for this sequence.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-43466-1

SDG No.:

Analyst: HV Batch Start Date: 08/15/2012

Reporting Units: mg/L Analytical Batch No.: 124172

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	13:49	Cyanide, Total	0.204	0.200	102	90-110		WTcnIM3_00765
9	CCB	13:50	Cyanide, Total	0.00145				J	
10	CCV	13:52	Cyanide, Total	0.204	0.200	102	90-110		WTcnIM3_00765
18	CCV	14:01	Cyanide, Total	0.208	0.200	104	90-110		WTcnIM3_00765
19	CCB	14:02	Cyanide, Total	0.0014				U	
30	CCV	14:14	Cyanide, Total	0.204	0.200	102	90-110		WTcnIM3_00765
31	CCB	14:15	Cyanide, Total	0.0014				U	

All total CN results > 10X's the blank level.

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60217522-400
October 2013

Data Usability Summary Report
National Grid/Equity Site
Groundwater Sampling Event
July-August 2013
Final

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
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Pittsburgh, PA
60217522-400
October 2013

Data Usability Summary Report
National Grid/Equity Site
Groundwater Sampling Event
July-August 2013
Final

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

Data validation was performed by Gregory A. Malzone of AECOM Pittsburgh on one data package from Accutest Laboratories New England, 495 Tech Center West, Building 1, Marlborough, MA 01752 for the analysis of groundwater samples collected on July 31-August 1, 2013 at the Equity Site.

The following analytical methods were requested on the chain-of-custody (CoC) records:

- Volatile Organic Compounds by USEPA SW-846 Method 8260B,
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270C, and
- Total Cyanide by USEPA SW-846 Method 9012A.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, EPA-540-R-10-011, October 2010, as they apply to the analytical methods employed.

The samples were processed and the results were reported under one sample delivery group (SDG). Table 1 provides a sample submittal list.

Table 1 - Sample Submittals
National Grid / Equity Groundwater Samples

Field ID	Laboratory ID	Matrix	Date Sampled
MW19B-73113	MC23250-1	Groundwater	7/31/2013
MW19C-73113	MC23250-2	Groundwater	7/31/2013
MW19A-73113	MC23250-3	Groundwater	7/31/2013
MW17C-73113	MC23250-4	Groundwater	7/31/2013
MW17C-73113 MS	MC23250-4 MS	Groundwater (QC)	7/31/2013
MW17C-73113 MSD	MC23250-4 MSD	Groundwater (QC)	7/31/2013
MW17B-73113	MC23250-5	Groundwater	7/31/2013
MW17D-73113	MC23250-6	Groundwater	7/31/2013
MW17A-73113	MC23250-7	Groundwater	7/31/2013
TRIP BLANK	MC23250-8	Aqueous (QC)	7/31/2013
MW18C-73113	MC23250-9	Groundwater	7/31/2013
MW18B-73113	MC23250-10	Groundwater	7/31/2013
MW18A-73113	MC23250-11	Groundwater	7/31/2013
MW16A-73113	MC23250-12	Groundwater	8/1/2013
MW16B-73113	MC23250-13	Groundwater	8/1/2013
MW16C-73113	MC23250-14	Groundwater	8/1/2013

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), matrix spikes, laboratory and field blanks, laboratory duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, laboratory control samples, laboratory duplicates, laboratory blanks, and analyte quantitation.

The 14 non-detect 2-chloroethyl vinyl ether results were rejected due to matrix spike recoveries that were less than 10% because acid-preservation breaks down this compound. The 14 semivolatile organic acid compounds (i.e., phenols) for samples MW17C-73113 and MW17D-73113 were rejected because the surrogate recoveries were less than 10%, which is an indication of severe matrix effects. All other data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e. groundwater) with the qualifications described below. Several data points were qualified because of low instrument bias and matrix effects and/or sample heterogeneity. Completeness of 96.9% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

MC23250

Dilutions: Sample MW19B-73113 required analysis at a secondary 100-fold dilution to bring the benzene and ethylbenzene concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Sample MW16C-080113 required analysis at a secondary 50-fold dilution to bring the benzene and trichloroethene concentrations into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required.

Calibrations (pp. 135, 139): The continuing calibration percent drift for acetone was less than the lower quality control limit of -20% on 08/07/13 at 11:57 on instrument GCMSV. Sensitivity decreased with respect to the initial calibration average relative response factor. The acetone results for associated samples MW19B-73113, MW17C-73113, MW17A-73113 and Trip Blank were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent drift for acetone was greater than the upper quality control limit of 20% on 08/08/13 at 11:48 on instrument GCMSV. Sensitivity increased with respect to the initial calibration average relative response factor. The acetone results for associated samples MW19C-73113, MW19A-73113, MW17B-73113, MW17C-73113, MW18C-73113, MW18B-73113, MW18A-73113, MW16A-080113, MW16B-080113 and MW16C-080113 were non-detect did not require qualification in response to the high instrument bias.

Matrix Spike Recoveries and RPDs (pp. 116-119): The MW17C-73113 MS/MSD and MW18C-73113 MS/MSD recoveries for 2-chloroethyl vinyl ether did not recover (0%) All aqueous field samples and aqueous QC samples for volatiles were acid-preserved. Acid breaks down 2-chloroethyl vinyl ether. The 2-chloroethyl vinyl ether results for all samples were non-detect and was qualified "R," as rejected, because of severe matrix effects.

One or more of the MW17C-73113 MS/MSD and MW18C-73113 MS/MSD recoveries for acetone were less than the lower advisory limit, but greater than 10%. The acetone results for samples MW17C-73113 and MW18C-73113 were non-detect and were qualified "UJ," as estimates, because of low bias, attributable to matrix effects.

The MW18C-73113 MS recovery for carbon tetrachloride was greater the upper advisory limit. The carbon tetrachloride result for sample MW18C-73113 was non-detect and did not require qualification in response to the high bias attributable to matrix effects.

Laboratory Control Sample Recoveries (pp. 112-115): One or more LCS/LCSD (MSV838-BS/BSD) recoveries for acetone and acrolein were greater than the upper quality control limits. The acetone and acrolein results for associated samples MW19B-73113, MW17C-73113, MW17A-73113 and Trip Blank were non-detect and did not require qualification in response to the high method bias.

One or more LCS/LCSD (MSV840-BS/BSD) recoveries for carbon tetrachloride and acrolein were greater than the upper quality control limits. The carbon tetrachloride and acrolein results for associated samples MW19C-73113, MW19A-73113, MW17B-73113, MW17C-73113, MW18C-73113, MW18B-73113, MW18A-73113, MW16A-080113, MW16B-080113 and MW16C-080113 were non-detect did not require qualification in response to the high method bias.

The LCS/LCSD (MSV838-BS/BSD) and LCS/LCSD (MSV840-BS/BSD) recoveries for 2-chloroethyl vinyl ether were less than the lower quality control limits, but greater than 10%. All 2-chloroethyl vinyl ether results were

rejected because of poor matrix spike recoveries. See above. All aqueous field samples and aqueous QC samples for volatiles were acid-preserved. Acid breaks down 2-chloroethyl vinyl ether. All field sample and aqueous QC sample 2-chloroethyl vinyl ether results were non-detect and were qualified “R,” as rejected, because of matrix effects.

2.0 Semivolatile Organic Compounds

MC23250

Surrogate Recoveries/Dilutions (p.380): The 2,4,6-tribromophenol and terphenyl-d14 surrogate recoveries for sample MW19B-73113 were greater than the upper quality control limits. The *USEPA National Functional Guidelines* permit one nonconforming surrogate recovery per fraction (i.e., acid or base/neutral) so long as the recoveries are greater than 10%. No data qualifications were required.

Sample MW19B-73113 required analysis at a secondary 50-fold dilution to bring the phenol and naphthalene concentrations into the calibration range. The surrogates were diluted out and could not be used to assess method accuracy. There were sufficient, acceptable quality control data to demonstrate that the analytical process was in control. No data qualifications were required.

The phenol-d5, 2-fluorophenol and 2,4,6-tribromophenol surrogate recoveries for sample MW17C-73113 were less than 10%. The base/neutral surrogate recoveries were within the quality control limits. All organic acids (i.e., phenols) were non-detect for sample MW17C-73113 were qualified "R," as rejected because of severe matrix effects.

The 2-fluorophenol surrogate recovery for sample MW17D-73113 was less than 10%. The phenol-d5 surrogate recovery was just 11%. The base/neutral surrogate recoveries were within the quality control limits. All organic acids (i.e., phenols) were non-detect for sample MW17D-73113 and were qualified "R," as rejected because of severe matrix effects.

Sample MW16C-080113 required analysis at a secondary 50-fold dilution to bring the naphthalene concentration into the calibration range. The surrogates were diluted out and could not be used to assess method accuracy. There were sufficient, acceptable quality control data to demonstrate that the analytical process was in control. No data qualifications were required.

Calibrations (pp. 399-404): The continuing calibration percent difference for bis(2-chloroisopropyl)ether was less than the lower quality control limit of -20% on 08/13/13 at 15:19 on instrument GCMSR. Sensitivity decreased with respect to the initial calibration average relative response factor. The bis(2-chloroisopropyl)ether results for associated samples MW16A-080113, MW16B-080113, MW16C-080113, MW17A-73113, MW17B-73113, MW17C-73113, MW17D-73113, MW18A-73113, MW18B-73113, MW18C-73113, MW19A-73113, MW19B-73113 and MW19C-73113 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

3.0 Total Cyanide

MC23250

No data quality issues were noted. No data qualifications were required.

4.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates and laboratory duplicates that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Accutest LabLink@141135 09:11 05-Sep-2013

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21687.D	1	08/07/13	AMY	n/a	n/a	MSV838
Run #2	V21745.D	100	08/08/13	AMY	n/a	n/a	MSV840

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND UJ	10	2.8	ug/l	ccv
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	7380 a	50	45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	4.3	5.0	0.59	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	7.8	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	17.7	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.9	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	1090 a	100	38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	1.3	2.0	0.41	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	79.2	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	2.4	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	16.6	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	896	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	99%	70-130%
2037-26-5	Toluene-D8	100%	99%	70-130%
460-00-4	4-Bromofluorobenzene	95%	96%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32661.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2	R32743.D	50	08/15/13	KR	08/04/13	OP34263	MSR1194

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	78.5	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	60.5	10	1.3	ug/l	
	3&4-Methylphenol	51.7	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	148 [a]	250	26	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	21.5	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.56	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
86-74-8	Carbazole	5.1	2.0	0.21	ug/l	
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.1	0.14	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	3.8	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.8	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.23	ug/l	
86-73-7	Fluorene	4.2	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
91-57-6	2-Methylnaphthalene	65.2	2.0	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
91-20-3	Naphthalene	1400 [a]	100	8.5	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
85-01-8	Phenanthrene	1.5	2.0	0.21	ug/l	J
129-00-0	Pyrene	ND	2.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%	78%	15-110%
4165-62-2	Phenol-d5	74%	59%	15-110%
118-79-6	2,4,6-Tribromophenol	133% [c]	0% [b]	15-110%
4165-60-0	Nitrobenzene-d5	96%	78%	30-130%
321-60-8	2-Fluorobiphenyl	115%	101%	30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	134% [c]	118%	30-130%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19B-73113		
Lab Sample ID:	MC23250-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.075	0.010	mg/l	1	08/07/13 12:31	MA	SW846 9012

RL = Reporting Limit

Raw Data: V21741.D

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Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21741.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	15.7	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	3.9	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	21.1	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.0	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	0.53	1.0	0.38	ug/l	J
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	0.41	2.0	0.41	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	23.7	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	20.0	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	0.65	1.0	0.41	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32662.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
83-32-9	Acenaphthene	6.7	2.2	0.25	ug/l	
208-96-8	Acenaphthylene	0.73	2.2	0.61	ug/l	J
120-12-7	Anthracene	ND	2.2	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.28	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
86-74-8	Carbazole	0.45	2.2	0.23	ug/l	J
218-01-9	Chrysene	ND	2.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.4	0.15	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.28	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.28	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.23	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.24	ug/l	
86-73-7	Fluorene	ND	2.2	0.26	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
91-20-3	Naphthalene	1.8	2.2	0.18	ug/l	J
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
85-01-8	Phenanthrene	0.34	2.2	0.23	ug/l	J
129-00-0	Pyrene	ND	2.2	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		15-110%
4165-62-2	Phenol-d5	18%		15-110%
118-79-6	2,4,6-Tribromophenol	55%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19C-73113		
Lab Sample ID:	MC23250-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.014	0.010	mg/l	1	08/07/13 12:32	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21742.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32663.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.43	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.55	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.65	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.6	0.57	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.35	ug/l	
83-32-9	Acenaphthene	ND	2.2	0.25	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.62	ug/l	
120-12-7	Anthracene	ND	2.2	0.23	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.28	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
86-74-8	Carbazole	ND	2.2	0.24	ug/l	
218-01-9	Chrysene	ND	2.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.6	0.15	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.29	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.28	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.75	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.71	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.24	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.43	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.48	ug/l	
84-66-2	Diethyl phthalate	ND	5.6	0.56	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.56	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.54	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.25	ug/l	
86-73-7	Fluorene	ND	2.2	0.26	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.6	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.6	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.44	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.56	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.8	ug/l	
91-20-3	Naphthalene	ND	2.2	0.19	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.28	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.90	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.60	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.23	ug/l	
129-00-0	Pyrene	ND	2.2	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	59%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	73%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW19A-73113		
Lab Sample ID:	MC23250-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:33	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21682.D	1	08/07/13	AMY	n/a	n/a	MSV838
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND UJ	10	2.8	ug/l	ms, ccv
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R ms
67-66-3	Chloroform	0.59	1.0	0.50	ug/l	J
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	0.59	2.0	0.41	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: R32660.D

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Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32660.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	0.40	ug/l	R SUR
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.51	ug/l	R
120-83-2	2,4-Dichlorophenol	ND	10	0.34	ug/l	R
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	R
51-28-5	2,4-Dinitrophenol	ND	21	2.6	ug/l	R
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	R
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	R
	3&4-Methylphenol	ND	10	2.1	ug/l	R
88-75-5	2-Nitrophenol	ND	10	0.52	ug/l	R
100-02-7	4-Nitrophenol	ND	21	0.60	ug/l	R
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	R
108-95-2	Phenol	ND	5.2	0.53	ug/l	R
95-95-4	2,4,5-Trichlorophenol	ND	10	0.59	ug/l	R
88-06-2	2,4,6-Trichlorophenol	ND	10	0.33	ug/l	R
83-32-9	Acenaphthene	ND	2.1	0.24	ug/l	
208-96-8	Acenaphthylene	ND	2.1	0.58	ug/l	
120-12-7	Anthracene	ND	2.1	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	0.28	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.88	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
86-74-8	Carbazole	ND	2.1	0.22	ug/l	
218-01-9	Chrysene	ND	2.1	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.2	0.14	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.70	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.66	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.52	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	0.22	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.55	5.2	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.2	0.45	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	0.52	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.52	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.50	ug/l	
206-44-0	Fluoranthene	ND	2.1	0.23	ug/l	
86-73-7	Fluorene	ND	2.1	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.31	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	0.28	ug/l	
78-59-1	Isophorone	ND	5.2	0.21	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.52	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.5	ug/l	
91-20-3	Naphthalene	3.0	2.1	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.83	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.56	ug/l	
85-01-8	Phenanthrene	ND	2.1	0.22	ug/l	
129-00-0	Pyrene	ND	2.1	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	3% [a]		15-110%
4165-62-2	Phenol-d5	4% [a]		15-110%
118-79-6	2,4,6-Tribromophenol	4% [a]		15-110%
4165-60-0	Nitrobenzene-d5	75%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		30-130%

(a) Outside control limits due to possible matrix interfernce. Confirmed by MS/MSD.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17C-73113		
Lab Sample ID:	MC23250-4	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:30	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21743.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.5	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.5	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32664.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
83-32-9	Acenaphthene	ND	2.2	0.25	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.61	ug/l	
120-12-7	Anthracene	ND	2.2	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.28	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
86-74-8	Carbazole	ND	2.2	0.23	ug/l	
218-01-9	Chrysene	ND	2.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.4	0.15	ug/l	cc✓
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.28	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.28	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.23	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	17.7	2.2	0.53	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.24	ug/l	
86-73-7	Fluorene	ND	2.2	0.26	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
91-20-3	Naphthalene	ND	2.2	0.18	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.23	ug/l	
129-00-0	Pyrene	ND	2.2	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	51%		15-110%
4165-60-0	Nitrobenzene-d5	66%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	90%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17B-73113		
Lab Sample ID:	MC23250-5	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:34	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21744.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.4	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32665.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2 [a]	F66305.D	1	08/16/13	WK	08/15/13	OP34402	MSF3065

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2	910 ml	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.43	ug/l	R SuR
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.55	ug/l	R
120-83-2	2,4-Dichlorophenol	ND	11	0.37	ug/l	R
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	R
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	R
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	R
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	R
	3&4-Methylphenol	ND	11	2.3	ug/l	R
88-75-5	2-Nitrophenol	ND	11	0.56	ug/l	R
100-02-7	4-Nitrophenol	ND	22	0.66	ug/l	R
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	R
108-95-2	Phenol	ND	5.6	0.58	ug/l	R
95-95-4	2,4,5-Trichlorophenol	ND	11	0.64	ug/l	R
88-06-2	2,4,6-Trichlorophenol	ND	11	0.36	ug/l	R
83-32-9	Acenaphthene	ND	2.2	0.26	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.63	ug/l	
120-12-7	Anthracene	ND	2.2	0.23	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.29	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
86-74-8	Carbazole	ND	2.2	0.24	ug/l	
218-01-9	Chrysene	ND	2.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.24	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.6	0.15	ug/l CCV	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.29	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.76	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.72	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.24	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.44	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.49	ug/l	
84-66-2	Diethyl phthalate	ND	5.6	0.56	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.56	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.55	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.25	ug/l	
86-73-7	Fluorene	ND	2.2	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.6	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.44	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.56	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.9	ug/l	
91-20-3	Naphthalene	ND	2.2	0.19	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.28	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.91	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.23	ug/l	
129-00-0	Pyrene	ND	2.2	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
			rerun	
367-12-4	2-Fluorophenol	6% b	2% b	15-110%
4165-62-2	Phenol-d5	11% b	6% b	15-110%
118-79-6	2,4,6-Tribromophenol	29%	26%	15-110%
4165-60-0	Nitrobenzene-d5	72%	61%	30-130%
321-60-8	2-Fluorobiphenyl	87%	53%	30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%	87%	30-130%

(a) Confirmation run.
(b) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17D-73113		
Lab Sample ID:	MC23250-6	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:37	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21692.D	1	08/07/13	AMY	n/a	n/a	MSV838
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND UJ	10	2.8	ug/l	CCV
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32666.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.43	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.55	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.37	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.8	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.3	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.56	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.66	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.6	0.58	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.64	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.36	ug/l	
83-32-9	Acenaphthene	ND	2.2	0.26	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.63	ug/l	
120-12-7	Anthracene	ND	2.2	0.23	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.26	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.29	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.30	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	0.23	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.28	ug/l	
86-74-8	Carbazole	ND	2.2	0.24	ug/l	
218-01-9	Chrysene	ND	2.2	0.23	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	0.24	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.6	0.15	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.29	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.29	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.28	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.76	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.72	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.56	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.24	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.18	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	0.44	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	0.49	ug/l	
84-66-2	Diethyl phthalate	ND	5.6	0.56	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	0.56	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.55	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.25	ug/l	
86-73-7	Fluorene	ND	2.2	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.6	0.33	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.8	ug/l	
67-72-1	Hexachloroethane	ND	5.6	0.49	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.31	ug/l	
78-59-1	Isophorone	ND	5.6	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.44	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.56	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.9	ug/l	
91-20-3	Naphthalene	ND	2.2	0.19	ug/l	
98-95-3	Nitrobenzene	ND	5.6	0.28	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	0.91	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.61	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.23	ug/l	
129-00-0	Pyrene	ND	2.2	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	32%		15-110%
118-79-6	2,4,6-Tribromophenol	84%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	86%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW17A-73113		
Lab Sample ID:	MC23250-7	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:38	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC23250-8	**Date Sampled:**	07/31/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21676.D	1	08/07/13	AMY	n/a	n/a	MSV838
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND UJ	10	2.8	ug/l	ccv
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	MC23250-8	**Date Sampled:**	07/31/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21730.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND UJ	10	2.8	ug/l	MS
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	5.0	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.1	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	0.53	2.0	0.41	ug/l	J
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	53.0	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	4.4	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	1.9	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32667.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.60	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.57	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.87	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.94	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.26	ug/l	
86-74-8	Carbazole	ND	2.0	0.22	ug/l	
218-01-9	Chrysene	ND	2.0	0.21	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.24	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.1	0.14	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.69	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.22	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.48	5.1	0.40	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.50	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.23	ug/l	
86-73-7	Fluorene	ND	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.30	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.6	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.45	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.28	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
91-20-3	Naphthalene	ND	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.21	ug/l	
129-00-0	Pyrene	ND	2.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.29	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	60%		15-110%
4165-60-0	Nitrobenzene-d5	63%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	69%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18C-73113		
Lab Sample ID:	MC23250-9	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.10	0.010	mg/l	1	08/07/13 12:39	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21731.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R ins
67-66-3	Chloroform	5.8	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	1.3	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32668.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
83-32-9	Acenaphthene	2.0	2.2	0.25	ug/l	J
208-96-8	Acenaphthylene	ND	2.2	0.61	ug/l	
120-12-7	Anthracene	ND	2.2	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.28	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
86-74-8	Carbazole	1.3	2.2	0.23	ug/l	J
218-01-9	Chrysene	ND	2.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.4	0.15	ug/l cc✓	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.28	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.28	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.23	ug/l	
132-64-9	Dibenzofuran	0.29	2.2	0.17	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	6.9	2.2	0.53	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.24	ug/l	
86-73-7	Fluorene	0.33	2.2	0.26	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
91-20-3	Naphthalene	25.2	2.2	0.18	ug/l	
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
85-01-8	Phenanthrene	ND	2.2	0.23	ug/l	
129-00-0	Pyrene	ND	2.2	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	38%		15-110%
118-79-6	2,4,6-Tribromophenol	74%		15-110%
4165-60-0	Nitrobenzene-d5	61%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18B-73113		
Lab Sample ID:	MC23250-10	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.032	0.010	mg/l	1	08/07/13 12:40	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21732.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	147	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	21.8	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	4.4	5.0	1.6	ug/l	J
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	1.7	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	5.4	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	1.4	5.0	1.3	ug/l	J
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	2.3	5.0	0.49	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	7.5	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	17.2	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32669.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	6.8	10	1.2	ug/l	J
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	1.9	10	1.3	ug/l	J
	3&4-Methylphenol	6.7	10	2.1	ug/l	J
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	81.4	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	5.0	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.56	ug/l	
120-12-7	Anthracene	0.61	2.0	0.21	ug/l	J
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
86-74-8	Carbazole	4.8	2.0	0.21	ug/l	
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND VJ	5.1	0.14	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	2.7	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.41	5.1	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	0.66	2.0	0.23	ug/l	J
86-73-7	Fluorene	3.5	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
91-57-6	2-Methylnaphthalene	6.5	2.0	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
91-20-3	Naphthalene	83.3	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
85-01-8	Phenanthrene	3.9	2.0	0.21	ug/l	
129-00-0	Pyrene	0.41	2.0	0.22	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		15-110%
4165-62-2	Phenol-d5	33%		15-110%
118-79-6	2,4,6-Tribromophenol	93%		15-110%
4165-60-0	Nitrobenzene-d5	77%		30-130%
321-60-8	2-Fluorobiphenyl	92%		30-130%

ND = Not detected MDL - Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW18A-73113		
Lab Sample ID:	MC23250-11	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:41	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21733.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	ND	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	ND	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	97%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32670.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.36	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	2.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	1.3	ug/l	
95-48-7	2-Methylphenol	ND	11	1.4	ug/l	
	3&4-Methylphenol	ND	11	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.54	ug/l	
100-02-7	4-Nitrophenol	ND	22	0.63	ug/l	
87-86-5	Pentachlorophenol	ND	11	1.4	ug/l	
108-95-2	Phenol	ND	5.4	0.56	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.62	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.34	ug/l	
83-32-9	Acenaphthene	ND	2.2	0.25	ug/l	
208-96-8	Acenaphthylene	ND	2.2	0.61	ug/l	
120-12-7	Anthracene	ND	2.2	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.2	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.2	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.2	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.2	0.28	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.2	0.29	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	0.22	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	0.93	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.27	ug/l	
86-74-8	Carbazole	ND	2.2	0.23	ug/l	
218-01-9	Chrysene	ND	2.2	0.22	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.4	0.15	ug/l	ccv
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.28	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.28	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.27	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	0.73	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.70	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.4	0.54	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.2	0.23	ug/l	
132-64-9	Dibenzofuran	ND	2.2	0.17	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	0.42	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	5.4	0.54	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	0.54	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	0.53	ug/l	
206-44-0	Fluoranthene	ND	2.2	0.24	ug/l	
86-73-7	Fluorene	ND	2.2	0.26	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.4	0.32	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.7	ug/l	
67-72-1	Hexachloroethane	ND	5.4	0.48	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.2	0.30	ug/l	
78-59-1	Isophorone	ND	5.4	0.22	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.54	ug/l	
100-01-6	4-Nitroaniline	ND	11	4.7	ug/l	
91-20-3	Naphthalene	0.40	2.2	0.18	ug/l	J
98-95-3	Nitrobenzene	ND	5.4	0.27	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	0.88	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.59	ug/l	
85-01-8	Phenanthrene	0.42	2.2	0.23	ug/l	J
129-00-0	Pyrene	ND	2.2	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	30%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	89%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16A-080113		
Lab Sample ID:	MC23250-12	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:42	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21734.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	13.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	1.1	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.93	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	0.38	1.0	0.38	ug/l	J
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	0.59	5.0	0.49	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	2.4	1.0	0.61	ug/l	
108-88-3	Toluene	0.52	1.0	0.46	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	3.0	1.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	1.8	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32671.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.1	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	ND	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	ND	2.0	0.56	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
86-74-8	Carbazole	ND	2.0	0.21	ug/l	
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.1	0.14	ug/l CCV	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.39	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.23	ug/l	
86-73-7	Fluorene	ND	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
91-20-3	Naphthalene	9.4	2.0	0.17	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.21	ug/l	
129-00-0	Pyrene	ND	2.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		15-110%
4165-62-2	Phenol-d5	46%		15-110%
118-79-6	2,4,6-Tribromophenol	91%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	87%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	94%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16B-080113		
Lab Sample ID:	MC23250-13	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/07/13 12:43	MA	SW846 9012

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V21735.D	1	08/08/13	AMY	n/a	n/a	MSV840
Run #2	V21746.D	50	08/08/13	AMY	n/a	n/a	MSV840

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.8	ug/l	
107-02-8	Acrolein	ND	25	6.3	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.5	ug/l	
71-43-2	Benzene	2380 [a]	25	23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.33	ug/l	
75-25-2	Bromoform	ND	1.0	0.42	ug/l	
74-83-9	Bromomethane	ND	2.0	1.5	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.6	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.59	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.62	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.48	ug/l	
75-00-3	Chloroethane	ND	2.0	0.84	ug/l	
~~110-75-8~~	~~2-Chloroethyl vinyl ether~~	~~ND~~	~~5.0~~	~~1.1~~	~~ug/l~~	R MS
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	1.4	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.35	ug/l	
75-35-4	1,1-Dichloroethene	3.3	1.0	0.67	ug/l	
156-59-2	cis-1,2-Dichloroethene	393	1.0	0.54	ug/l	
156-60-5	trans-1,2-Dichloroethene	265	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.45	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.29	ug/l	
100-41-4	Ethylbenzene	64.8	1.0	0.38	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.3	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.41	ug/l	
100-42-5	Styrene	270	5.0	0.49	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.42	ug/l	
127-18-4	Tetrachloroethene	312	1.0	0.61	ug/l	
108-88-3	Toluene	62.6	1.0	0.46	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.94	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.49	ug/l	
79-01-6	Trichloroethene	655 [a]	50	22	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.61	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	6.1	1.0	0.61	ug/l	
1330-20-7	Xylene (total)	466	1.0	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	70-130%
2037-26-5	Toluene-D8	99%	100%	70-130%
460-00-4	4-Bromofluorobenzene	95%	95%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R32672.D	1	08/13/13	KR	08/04/13	OP34263	MSR1191
Run #2	R32744.D	50	08/15/13	KR	08/04/13	OP34263	MSR1194

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.39	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.50	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.33	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	1.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	2.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.2	ug/l	
95-48-7	2-Methylphenol	ND	10	1.3	ug/l	
	3&4-Methylphenol	ND	10	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.51	ug/l	
100-02-7	4-Nitrophenol	ND	20	0.59	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	0.88	5.1	0.52	ug/l	J
95-95-4	2,4,5-Trichlorophenol	ND	10	0.58	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.32	ug/l	
83-32-9	Acenaphthene	6.9	2.0	0.23	ug/l	
208-96-8	Acenaphthylene	27.1	2.0	0.56	ug/l	
120-12-7	Anthracene	ND	2.0	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	0.26	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.27	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.21	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.86	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.93	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.25	ug/l	
86-74-8	Carbazole	0.34	2.0	0.21	ug/l	J
218-01-9	Chrysene	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.21	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.23	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND UJ	5.1	0.14	ug/l	cc✓
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.20	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.26	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.26	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.68	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.65	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.21	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.16	ug/l	
84-74-2	Di-n-butyl phthalate	0.60	5.1	0.39	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.44	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	0.51	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	0.51	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.23	ug/l	
86-73-7	Fluorene	ND	2.0	0.24	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.30	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	0.29	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.5	ug/l	
67-72-1	Hexachloroethane	ND	5.1	0.44	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	0.27	ug/l	
78-59-1	Isophorone	ND	5.1	0.20	ug/l	
91-57-6	2-Methylnaphthalene	3.8	2.0	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.51	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.4	ug/l	
91-20-3	Naphthalene	1170 [a]	100	8.5	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.82	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.55	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.21	ug/l	
129-00-0	Pyrene	ND	2.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%	0% [b]	15-110%
4165-62-2	Phenol-d5	19%	0% [b]	15-110%
118-79-6	2,4,6-Tribromophenol	51%	0% [b]	15-110%
4165-60-0	Nitrobenzene-d5	70%	49%	30-130%
321-60-8	2-Fluorobiphenyl	81%	62%	30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%	76%	30-130%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16C-080113		
Lab Sample ID:	MC23250-14	**Date Sampled:**	08/01/13
Matrix:	AQ - Ground Water	**Date Received:**	08/02/13
		Percent Solids:	n/a
Project:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.024	0.010	mg/l	1	08/07/13 12:44	MA	SW846 9012

RL = Reporting Limit

Appendix C

Support Documentation

Sample Summary

AECOM

Job No: MC23250

METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY
Project No: 60137362

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC23250-1	07/31/13	07:50	JMRM	08/02/13	AQ	Ground Water	MW19B-73113
MC23250-2	07/31/13	08:00	JMRM	08/02/13	AQ	Ground Water	MW19C-73113
MC23250-3	07/31/13	08:35	JMRM	08/02/13	AQ	Ground Water	MW19A-73113
MC23250-4	07/31/13	12:00	JMRM	08/02/13	AQ	Ground Water	MW17C-73113
MC23250-4D	07/31/13	12:00	JMRM	08/02/13	AQ	Water Dup/MSD	MW17C-73113
MC23250-4S	07/31/13	12:00	JMRM	08/02/13	AQ	Water Matrix Spike	MW17C-73113
MC23250-5	07/31/13	11:58	JMRM	08/02/13	AQ	Ground Water	MW17B-73113
MC23250-6	07/31/13	12:00	JMRM	08/02/13	AQ	Ground Water	MW17D-73113
MC23250-7	07/31/13	13:45	JMRM	08/02/13	AQ	Ground Water	MW17A-73113
MC23250-8	07/31/13	00:00	JMRM	08/02/13	AQ	Trip Blank Water	TRIP BLANK
MC23250-9	07/31/13	14:40	JMRM	08/02/13	AQ	Ground Water	MW18C-73113
MC23250-10	07/31/13	13:11	JMRM	08/02/13	AQ	Ground Water	MW18B-73113
MC23250-11	07/31/13	16:16	JMRM	08/02/13	AQ	Ground Water	MW18A-73113

Sample Summary
(continued)

AECOM

Job No: MC23250

METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY
Project No: 60137362

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC23250-12	08/01/13	12:50	JMRM	08/02/13	AQ	Ground Water	MW16A-080113
MC23250-13	08/01/13	14:13	JMRM	08/02/13	AQ	Ground Water	MW16B-080113
MC23250-14	08/01/13	15:34	JMRM	08/02/13	AQ	Ground Water	MW16C-080113
MC23250-16	08/01/13	08:55	JMRM	08/02/13	LIQ	Liquid, Non-aqueous	NAPL-WASTECHAR-2-080113

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC23250

Client / Reporting Information

Company Name: AECOM
Street Address: 250 Apollo Dr.
City / State / Zip: Chelmsford MA
Project Contact: Peter Cox
E-mail: Peter.Cox@AECOM.com
Phone #: 978 905 2100
Fax #:
Sampler(s) Name(s): J. Millard R. MacPhee
Phone #: 978 948 4194

Project Information

Project Name: Equity
Street: 254 Maspeth Ave
City: Brooklyn, NY
Project #:
Client PO#:
Project Manager: Peter Cox

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:
PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	NONE	DI Water	MEOH	ENCORE	Bisulfate	VOCs 8260	SVOCs 8270	Total Cyanide	LAB USE ONLY
-1	MW19B-73113		73113	750	JM	GW	5	X		X						X	X	X	
-2	MW19C-73113		73113	800	RM	GW	5	X		X						X	X	X	
-3	MW19A-73113		73113	835	JM	GW	5	X		X						X	X	X	
-4	MW17C-73113		73113	1200	JM	GS	5	X		X						X	X	X	
-5	MW17B-73113		73113	1158	JM	GW	5	X		X						X	X	X	
-6	MW17D-73113		73113	1200	JM	GW	5	X		X						X	X	X	
-7	MW17A-73113		73113	1345	RM	GW	5	X		X						X	X	X	
-4SD	MW17C-73113 MS/MSD		73113	1200	RM	GW	10	X		X						X	X	X	19D, 9D, 2D4
-8	Trip Blank						2	1								X			
-9	MW18C-73113		73113	1440	JM	GW	5	X		X						X	X	X	
-10	MW18B-73113		73113	1311	RM	GW	5	X		X						X	X	X	
-11	MW18A-73113		73113	1446	RM	GW	5	X		X						X	X	X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [x] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Rachel MacPhee	080213 1020	1 [signature]	2 [signature]	8/2/13 1740	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1-23.7° 2-2.7° 3-0.9° 4-1.2°

MC23250: Chain of Custody
Page 1 of 3

ACCUTEST Laboratories

CHAIN OF CUSTODY- ExxonMobil Projects

PAGE 2 OF 2

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # MC23250

Client / Reporting Information

Company Name: AECOM
Street Address: 250 Apollo dr
City / State / Zip: Chelmsford MA
Project Contact / E-mail: Peter Cox peter.cox@aecom.com
Phone #: 978 905 2100 / Fax #:
Sampler(s) Name(s): J. Millard, R. MacPhee / Phone #: 978 424 8194

SITE NAME - Provide Site Name for Retail or AFE Number for Major Projects

Retail Project (Site Name): Equity
Major Project (AFE): 254 Magpeth Ave
Project Name: Brooklyn NY
City / State:
ExxonMobil Manager:
ExxonMobil Purchase Order #: Peter Cox

ExxonMobil Environmental Services Co.
If Project is Direct Bill to Consultant
Company Name:
Street Address:
City / State / Zip:
Attention: / PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	NONE	DI Water	MEOH	ENCORE	Sterilite	VOCS 8260	SVOCS 8270	Total cyanide	Ignitability	Corrosivity	Reactivity	LAB USE ONLY
-12	MW-16a-080113		080113	1250	RM	GW	5	X			X					X	X	X				
-13	MW-16b-080113		080113	1413	RM	GW	5	X			X					X	X	X				
-14	MW-16c-080113		080113	1534	RM	GW	5	X			X											
-15	NAPL-wastechar-1-080113		080113	0850	RM	NP	1												X	X	X	
-16	NAPL-wastechar-2-080113		080113	0855	RM	NP	1												X	X	X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

MPY REQUEST ADDITIONAL RCRA TESTING - WILL CALL LAB ON 8/2/13.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Rachel MacPhee	080213 1020	1 [signature]	2 [signature]	8/2/13 1740	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

5.1

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MC23250: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC23250 **Client:** AECOM **Immediate Client Services Action Required:** No

Date / Time Received: 8/2/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: EQUITY **No. Coolers:** 4 **Airbill #'s:**

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	☐
2. Trip Blank listed on COC:	☑ ☐	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

5.1 5

MC23250: Chain of Custody
Page 3 of 3

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AECOM	**Job No**	MC23250
Site:	METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY	**Report Date**	8/21/2013 2:45:59 PM

14 Sample(s) and 1 Trip Blank(s) were collected on between 07/31/2013 and 08/01/2013 and were received at Accutest on 08/02/2013 properly preserved, at 2.3 Deg. C and intact. These Samples received an Accutest job number of MC23250. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSV838

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC23250-4MS, MC23250-4MSD were used as the QC samples indicated.
- MSV838-BS Recovery(s) for 2-Chloroethyl vinyl ether, Acetone are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acrolein are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acetone, Acrolein, 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 2-Chloroethyl vinyl ether are outside control limits for sample MC23250-4MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MSV838-BS/BSD for Acrolein: Outside control limits. Associated samples are non-detect for this compound.
- MSV838-BSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Blank Spike meets program technical requirements.
- Initial calibration verification stdanard MSV832-ICV832 for acetone exceeded 50% Difference (response biased high). Associated samples are non-detect for these compounds.

Matrix AQ **Batch ID:** MSV840

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC23250-9MS, MC23250-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MSV840-BS Recovery(s) for 1,1,1-Trichloroethane, 2-Chloroethyl vinyl ether are outside control limits. Blank Spike meets program technical requirements.
- MSV840-BSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Acrolein, Carbon tetrachloride are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Acrolein are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MSV840-BS for Acrolein, Carbon tetrachloride: Outside control limits. Associated samples are non-detect for this compound.
- MSV840-BSD for Acrolein: Outside control limits. Associated samples are non-detect for this compound.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP34263

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC23250-4MS, MC23250-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol, 2-Methylphenol, 3&4-Methylphenol, 4-Chloro-3-methyl phenol, Pentachlorophenol, Phenol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol, 2-Nitrophenol, 3&4-Methylphenol, 4-Chloro-3-methyl phenol, 4-Nitrophenol, Pentachlorophenol, Phenol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC23250-14 for 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol: Outside control limits due to dilution.
- MC23250-1 for 2,4,6-Tribromophenol, Terphenyl-d14: Outside control limits due to possible matrix interference.
- MC23250-6 for Phenol-d5, 2-Fluorophenol: Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.
- MC23250-4, OP34263-MS for 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol: Outside control limits due to possible matrix interfernce. Confirmed by MS/MSD.
- OP34263-MSD for Terphenyl-d14: Outside control limits due to possible matrix interference.
- MC23250-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Matrix AQ	Batch ID: OP34402

- MC23250-6: Sample re-extracted outside of holding time
- MC23250-6: Confirmation run.
- MC23250-6 for 2-Fluorophenol, Phenol-d5: Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

Wet Chemistry By Method SW846 1020

Matrix AQ	Batch ID: GN43903

- Sample(s) MC23250-16DUP were used as the QC samples for Ignitability (Flashpoint).

Wet Chemistry By Method SW846 9012

Matrix AQ	Batch ID: GP16433

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC23250-4DUP, MC23250-4MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SW846 CHAP7

Matrix AQ	Batch ID: GP16437

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC23250-16DUP, MC23250-16MS were used as the QC samples for Cyanide Reactivity.

Matrix AQ	Batch ID: GP16438

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC23250-16DUP, MC23250-16MS were used as the QC samples for Sulfide Reactivity.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC23250).

Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSV838-CC832
Account: AECOMNY AECOM **Lab FileID:** V21670.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V130807\v21670.D Vial: 2
Acq On : 7 Aug 2013 11:57 am Operator: amym
Sample : cc832-50 Inst : MSV
Misc : MS29595,MSV838,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v130801w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Aug 02 11:17:48 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	99	-0.02	3.50
2		tertiary butyl alcohol	1.229	1.220	0.7	95	-0.02	3.61
3	T	Ethanol	0.092	0.093	-1.1	99	-0.02	2.50
4	I	pentafluorobenzene	1.000	1.000	0.0	112	-0.02	6.56
5	M	dichlorodifluoromethane	0.639	0.682	-6.7	150	0.00	1.49
6	P	chloromethane	0.426	0.417	2.1	126	-0.02	1.63
7	c	vinyl chloride	0.512	0.506	1.2	127	0.00	1.73
8	M	bromomethane	0.329	0.325	1.2	119	0.00	2.03
9	M	chloroethane	0.222	0.220	0.9	123	0.00	2.12
10	M	ethyl ether	0.308	0.329	-6.8	134	-0.01	2.61
11	M	acetonitrile	0.522	0.564	-8.0	123	-0.01	3.30
12	M	trichlorofluoromethane	0.773	0.776	-0.4	139	0.00	2.35
13	M	freon-113	0.413	0.459	-11.1	152	-0.01	2.92
14	M	acrolein	0.028	0.028	0.0	109	-0.01	2.76
15	c	1,1-dichloroethene	0.366	0.391	-6.8	132	0.00	2.87
			Amount	Calc.	%Drift			
16	M	acetone	50.000	63.727	-27.5#	143	-0.02	2.90
			AvgRF	CCRF	%Dev			
17	M	Methyl Acetate	0.360	0.345	4.2	109	-0.01	3.28
			Amount	Calc.	%Drift			
18	M	methylene chloride	50.000	52.417	-4.8	122	-0.01	3.47
			AvgRF	CCRF	%Dev			
19	M	methyl tert butyl ether	1.043	1.040	0.3	116	-0.02	3.84
20	M	acrylonitrile	0.129	0.128	0.8	111	-0.02	3.78
21	M	allyl chloride	0.522	0.564	-8.0	123	-0.01	3.30
22	M	trans-1,2-dichloroethene	0.441	0.452	-2.5	125	-0.02	3.84
23	M	iodomethane	0.875	0.889	-1.6	123	-0.01	3.04
24	M	carbon disulfide	1.191	1.297	-8.9	135	0.00	3.12
			Amount	Calc.	%Drift			
25	M	propionitrile	50.000	46.890	6.2	107	-0.02	5.65
			AvgRF	CCRF	%Dev			
26	M	vinyl acetate	1.218	1.265	-3.9	117	-0.02	4.57
27	M	chloroprene	0.584	0.645	-10.4	125	-0.02	4.62
28	M	di-isopropyl ether	1.184	1.284	-8.4	122	-0.03	4.60
29	M	methacrylonitrile	0.220	0.218	0.9	108	-0.02	5.92

Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSV840-CC832
Account: AECOMNY AECOM **Lab FileID:** V21724.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V130808\v21724.D Vial: 1
Acq On : 8 Aug 2013 11:48 am Operator: amym
Sample : cc832-50 Inst : MSV
Misc : MS29618,MSV840,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v130801w.m (RTE Integrator)
Title : SW-846 Method 8260
Last Update : Fri Aug 02 11:17:48 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	84	-0.02	3.50
2		tertiary butyl alcohol	1.229	1.231	-0.2	81	-0.02	3.61
3	T	Ethanol	0.092	0.108	-17.4	98	-0.02	2.50
4	I	pentafluorobenzene	1.000	1.000	0.0	92	-0.01	6.57
5	M	dichlorodifluoromethane	0.639	0.665	-4.1	120	-0.01	1.49
6	P	chloromethane	0.426	0.431	-1.2	107	-0.02	1.63
7	c	vinyl chloride	0.512	0.498	2.7	102	-0.01	1.73
8	M	bromomethane	0.329	0.322	2.1	96	-0.01	2.03
9	M	chloroethane	0.222	0.219	1.4	100	0.00	2.12
10	M	ethyl ether	0.308	0.277	10.1	92	-0.01	2.61
11	M	acetonitrile	0.522	0.565	-8.2	101	-0.01	3.30
12	M	trichlorofluoromethane	0.773	0.846	-9.4	124	-0.01	2.35
13	M	freon-113	0.413	0.440	-6.5	119	-0.01	2.92
14	M	acrolein	0.028	0.029	-3.6	94	-0.01	2.76
15	c	1,1-dichloroethene	0.366	0.364	0.5	101	0.00	2.87
		----------	Amount	Calc.	%Drift		----------	
16	M	acetone	50.000	35.597	28.8#	70	-0.02	2.90
		----------	AvgRF	CCRF	%Dev		----------	
17	M	Methyl Acetate	0.360	0.369	-2.5	96	-0.01	3.28
		----------	Amount	Calc.	%Drift		----------	
18	M	methylene chloride	50.000	49.467	1.1	95	-0.01	3.47
		----------	AvgRF	CCRF	%Dev		----------	
19	M	methyl tert butyl ether	1.043	1.038	0.5	95	-0.02	3.84
20	M	acrylonitrile	0.129	0.134	-3.9	96	-0.02	3.78
21	M	allyl chloride	0.522	0.565	-8.2	101	-0.01	3.30
22	M	trans-1,2-dichloroethene	0.441	0.424	3.9	96	-0.02	3.84
23	M	iodomethane	0.875	0.831	5.0	94	-0.01	3.04
24	M	carbon disulfide	1.191	1.190	0.1	101	0.00	3.13
		----------	Amount	Calc.	%Drift		----------	
25	M	propionitrile	50.000	49.540	0.9	93	-0.02	5.65
		----------	AvgRF	CCRF	%Dev		----------	
26	M	vinyl acetate	1.218	1.317	-8.1	100	-0.01	4.57
27	M	chloroprene	0.584	0.658	-12.7	104	-0.02	4.63
28	M	di-isopropyl ether	1.184	1.296	-9.5	101	-0.02	4.61
29	M	methacrylonitrile	0.220	0.235	-6.8	95	-0.01	5.93

6.7.4 6

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV838-BS	V21671.D	1	08/07/13	AMY	n/a	n/a	MSV838
MSV838-BSD	V21672.D	1	08/07/13	AMY	n/a	n/a	MSV838

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-4, MC23250-7, MC23250-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	65.3	131* [a]	57.1	114	13	70-130/25
107-02-8	Acrolein	250	437	175* [b]	441	176* [b]	1	70-130/25
107-13-1	Acrylonitrile	50	50.6	101	50.9	102	1	70-130/25
71-43-2	Benzene	50	52.1	104	51.4	103	1	70-130/25
75-27-4	Bromodichloromethane	50	53.9	108	53.5	107	1	70-130/25
75-25-2	Bromoform	50	49.6	99	49.4	99	0	70-130/25
74-83-9	Bromomethane	50	56.8	114	54.7	109	4	70-130/25
78-93-3	2-Butanone (MEK)	50	57.8	116	56.1	112	3	70-130/25
75-15-0	Carbon disulfide	50	60.6	121	58.0	116	4	70-130/25
56-23-5	Carbon tetrachloride	50	60.5	121	58.1	116	4	70-130/25
108-90-7	Chlorobenzene	50	48.0	96	47.0	94	2	70-130/25
75-00-3	Chloroethane	50	56.1	112	53.2	106	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	28.3	57* [a]	28.7	57* [a]	1	70-130/25
67-66-3	Chloroform	50	54.2	108	52.7	105	3	70-130/25
74-87-3	Chloromethane	50	59.5	119	57.2	114	4	70-130/25
124-48-1	Dibromochloromethane	50	48.4	97	48.0	96	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.0	96	47.5	95	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	49.1	98	48.1	96	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.5	97	47.6	95	2	70-130/25
75-34-3	1,1-Dichloroethane	50	58.5	117	56.7	113	3	70-130/25
107-06-2	1,2-Dichloroethane	50	47.4	95	47.1	94	1	70-130/25
75-35-4	1,1-Dichloroethene	50	61.5	123	59.0	118	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	55.0	110	53.4	107	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	55.3	111	52.8	106	5	70-130/25
78-87-5	1,2-Dichloropropane	50	53.6	107	52.8	106	2	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	49.0	98	48.2	96	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	49.8	100	49.7	99	0	70-130/25
100-41-4	Ethylbenzene	50	52.2	104	51.2	102	2	70-130/25
591-78-6	2-Hexanone	50	58.6	117	56.4	113	4	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	53.0	106	52.6	105	1	70-130/25
75-09-2	Methylene chloride	50	54.6	109	53.7	107	2	70-130/25
100-42-5	Styrene	50	57.3	115	56.2	112	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.4	99	50.4	101	2	70-130/25
127-18-4	Tetrachloroethene	50	58.3	117	56.6	113	3	70-130/25
108-88-3	Toluene	50	54.3	109	53.0	106	2	70-130/25
71-55-6	1,1,1-Trichloroethane	50	60.9	122	58.3	117	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV838-BS	V21671.D	1	08/07/13	AMY	n/a	n/a	MSV838
MSV838-BSD	V21672.D	1	08/07/13	AMY	n/a	n/a	MSV838

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-4, MC23250-7, MC23250-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	50	50.9	102	50.8	102	0	70-130/25
79-01-6	Trichloroethene	50	51.3	103	50.6	101	1	70-130/25
75-69-4	Trichlorofluoromethane	50	51.8	104	48.8	98	6	70-130/25
108-05-4	Vinyl Acetate	50	46.1	92	46.0	92	0	70-130/25
75-01-4	Vinyl chloride	50	44.9	90	42.0	84	7	70-130/25
1330-20-7	Xylene (total)	150	154	103	152	101	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	93%	92%	70-130%
2037-26-5	Toluene-D8	101%	101%	70-130%
460-00-4	4-Bromofluorobenzene	98%	96%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV840-BS	V21725.D	1	08/08/13	AMY	n/a	n/a	MSV840
MSV840-BSD	V21726.D	1	08/08/13	AMY	n/a	n/a	MSV840

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-2, MC23250-3, MC23250-5, MC23250-6, MC23250-9, MC23250-10, MC23250-11, MC23250-12, MC23250-13, MC23250-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	56.8	114	54.3	109	5	70-130/25
107-02-8	Acrolein	250	455	182* [a]	446	178* [a]	2	70-130/25
107-13-1	Acrylonitrile	50	54.7	109	52.8	106	4	70-130/25
71-43-2	Benzene	50	52.5	105	50.9	102	3	70-130/25
75-27-4	Bromodichloromethane	50	58.2	116	56.0	112	4	70-130/25
75-25-2	Bromoform	50	50.1	100	48.4	97	3	70-130/25
74-83-9	Bromomethane	50	59.2	118	57.3	115	3	70-130/25
78-93-3	2-Butanone (MEK)	50	54.0	108	54.4	109	1	70-130/25
75-15-0	Carbon disulfide	50	59.1	118	57.1	114	3	70-130/25
56-23-5	Carbon tetrachloride	50	66.4	133* [a]	63.5	127	4	70-130/25
108-90-7	Chlorobenzene	50	47.6	95	46.4	93	3	70-130/25
75-00-3	Chloroethane	50	58.0	116	55.4	111	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	26.3	53* [b]	26.6	53* [b]	1	70-130/25
67-66-3	Chloroform	50	57.2	114	55.6	111	3	70-130/25
74-87-3	Chloromethane	50	63.4	127	60.7	121	4	70-130/25
124-48-1	Dibromochloromethane	50	49.5	99	48.5	97	2	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.2	96	47.6	95	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	48.9	98	47.9	96	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.5	97	47.8	96	1	70-130/25
75-34-3	1,1-Dichloroethane	50	60.6	121	59.2	118	2	70-130/25
107-06-2	1,2-Dichloroethane	50	53.6	107	51.6	103	4	70-130/25
75-35-4	1,1-Dichloroethene	50	60.8	122	59.2	118	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	54.6	109	53.7	107	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.7	109	53.0	106	3	70-130/25
78-87-5	1,2-Dichloropropane	50	55.1	110	53.9	108	2	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	49.6	99	49.0	98	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	52.5	105	51.1	102	3	70-130/25
100-41-4	Ethylbenzene	50	52.4	105	50.7	101	3	70-130/25
591-78-6	2-Hexanone	50	55.6	111	55.4	111	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	55.9	112	53.8	108	4	70-130/25
75-09-2	Methylene chloride	50	54.8	110	53.4	107	3	70-130/25
100-42-5	Styrene	50	56.4	113	55.4	111	2	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.5	99	49.0	98	1	70-130/25
127-18-4	Tetrachloroethene	50	57.6	115	55.5	111	4	70-130/25
108-88-3	Toluene	50	54.8	110	53.7	107	2	70-130/25
71-55-6	1,1,1-Trichloroethane	50	65.3	131* [b]	63.1	126	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV840-BS	V21725.D	1	08/08/13	AMY	n/a	n/a	MSV840
MSV840-BSD	V21726.D	1	08/08/13	AMY	n/a	n/a	MSV840

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-2, MC23250-3, MC23250-5, MC23250-6, MC23250-9, MC23250-10, MC23250-11, MC23250-12, MC23250-13, MC23250-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	50	52.9	106	51.2	102	3	70-130/25
79-01-6	Trichloroethene	50	52.6	105	50.6	101	4	70-130/25
75-69-4	Trichlorofluoromethane	50	58.6	117	55.7	111	5	70-130/25
108-05-4	Vinyl Acetate	50	49.3	99	48.0	96	3	70-130/25
75-01-4	Vinyl chloride	50	46.0	92	44.3	89	4	70-130/25
1330-20-7	Xylene (total)	150	154	103	150	100	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	96%	70-130%
2037-26-5	Toluene-D8	102%	102%	70-130%
460-00-4	4-Bromofluorobenzene	97%	98%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.
(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23250-9MS	V21736.D	5	08/08/13	AMY	n/a	n/a	MSV840
MC23250-9MSD	V21737.D	5	08/08/13	AMY	n/a	n/a	MSV840
MC23250-9	V21730.D	1	08/08/13	AMY	n/a	n/a	MSV840

MW-18C-73113

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-2, MC23250-3, MC23250-5, MC23250-6, MC23250-9, MC23250-10, MC23250-11, MC23250-12, MC23250-13, MC23250-14

CAS No.	Compound	MC23250-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	150	60* a	153	61* a	2	70-130/30
107-02-8	Acrolein	ND		1250	1910	153* a	1920	154* a	1	70-130/30
107-13-1	Acrylonitrile	ND		250	267	107	266	106	0	70-130/30
71-43-2	Benzene	ND		250	269	108	261	104	3	70-130/30
75-27-4	Bromodichloromethane	ND		250	285	114	276	110	3	70-130/30
75-25-2	Bromoform	ND		250	251	100	247	99	2	70-130/30
74-83-9	Bromomethane	ND		250	290	116	277	111	5	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	226	90	214	86	5	70-130/30
75-15-0	Carbon disulfide	ND		250	311	124	303	121	3	70-130/30
56-23-5	Carbon tetrachloride	ND		250	332	133* a	321	128	3	70-130/30
108-90-7	Chlorobenzene	ND		250	238	95	234	94	2	70-130/30
75-00-3	Chloroethane	ND		250	292	117	277	111	5	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		250	ND	0* a	ND	0* a	nc	70-130/30
67-66-3	Chloroform	5.0		250	287	113	279	110	3	70-130/30
74-87-3	Chloromethane	ND		250	321	128	300	120	7	70-130/30
124-48-1	Dibromochloromethane	ND		250	248	99	246	98	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	241	96	236	94	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	246	98	240	96	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	245	98	239	96	2	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	306	122	298	119	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	258	103	249	100	4	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	313	125	304	122	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	6.1		250	283	111	277	108	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	279	112	269	108	4	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	277	111	269	108	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	240	96	235	94	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	252	101	248	99	2	70-130/30
100-41-4	Ethylbenzene	ND		250	263	105	254	102	3	70-130/30
591-78-6	2-Hexanone	ND		250	261	104	252	101	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	291	116	285	114	2	70-130/30
75-09-2	Methylene chloride	0.53	J	250	274	109	268	107	2	70-130/30
100-42-5	Styrene	ND		250	286	114	276	110	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	257	103	253	101	2	70-130/30
127-18-4	Tetrachloroethene	53.0		250	337	114	328	110	3	70-130/30
108-88-3	Toluene	ND		250	275	110	266	106	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	323	129	312	125	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23250-9MS	V21736.D	5	08/08/13	AMY	n/a	n/a	MSV840
MC23250-9MSD	V21737.D	5	08/08/13	AMY	n/a	n/a	MSV840
MC23250-9	V21730.D	1	08/08/13	AMY	n/a	n/a	MSV840

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-2, MC23250-3, MC23250-5, MC23250-6, MC23250-9, MC23250-10, MC23250-11, MC23250-12, MC23250-13, MC23250-14

CAS No.	Compound	MC23250-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	ND		250	263	105	258	103	2	70-130/30
79-01-6	Trichloroethene	4.4		250	268	105	263	103	2	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	287	115	270	108	6	70-130/30
108-05-4	Vinyl Acetate	ND		250	244	98	237	95	3	70-130/30
75-01-4	Vinyl chloride	1.9		250	233	92	219	87	6	70-130/30
1330-20-7	Xylene (total)	ND		750	777	104	757	101	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC23250-9	Limits
1868-53-7	Dibromofluoromethane	96%	95%	101%	70-130%
2037-26-5	Toluene-D8	101%	101%	101%	70-130%
460-00-4	4-Bromofluorobenzene	98%	97%	96%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23250-4MS	V21695.D	1	08/07/13	AMY	n/a	n/a	MSV838
MC23250-4MSD	V21696.D	1	08/07/13	AMY	n/a	n/a	MSV838
MC23250-4	V21682.D	1	08/07/13	AMY	n/a	n/a	MSV838

MW-17C - 73113

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-4, MC23250-7, MC23250-8

CAS No.	Compound	MC23250-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	36.2	72	33.4	67* [a]	8	70-130/30
107-02-8	Acrolein	ND		250	382	153* [a]	380	152* [a]	1	70-130/30
107-13-1	Acrylonitrile	ND		50	54.8	110	54.3	109	1	70-130/30
71-43-2	Benzene	ND		50	52.9	106	51.3	103	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	54.3	109	53.2	106	2	70-130/30
75-25-2	Bromoform	ND		50	50.8	102	50.4	101	1	70-130/30
74-83-9	Bromomethane	ND		50	54.6	109	53.2	106	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	47.9	96	45.0	90	6	70-130/30
75-15-0	Carbon disulfide	ND		50	59.9	120	58.5	117	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	61.5	123	58.7	117	5	70-130/30
108-90-7	Chlorobenzene	ND		50	48.1	96	47.5	95	1	70-130/30
75-00-3	Chloroethane	ND		50	54.1	108	52.3	105	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* [a]	5.5	11* [a]	200* [b]	70-130/30
67-66-3	Chloroform	0.59	J	50	54.7	108	54.1	107	1	70-130/30
74-87-3	Chloromethane	ND		50	58.4	117	55.7	111	5	70-130/30
124-48-1	Dibromochloromethane	ND		50	49.5	99	49.3	99	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	47.6	95	48.0	96	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	48.3	97	47.8	96	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	48.3	97	47.6	95	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	59.8	120	58.3	117	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	48.8	98	47.8	96	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	61.4	123	60.2	120	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	55.4	111	54.3	109	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	55.1	110	54.1	108	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	54.3	109	53.0	106	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	47.4	95	46.4	93	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	50.3	101	49.2	98	2	70-130/30
100-41-4	Ethylbenzene	ND		50	52.3	105	51.5	103	2	70-130/30
591-78-6	2-Hexanone	ND		50	54.8	110	54.5	109	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	60.4	121	59.2	118	2	70-130/30
75-09-2	Methylene chloride	0.59	J	50	55.4	110	54.8	108	1	70-130/30
100-42-5	Styrene	ND		50	57.6	115	56.7	113	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.4	105	52.3	105	0	70-130/30
127-18-4	Tetrachloroethene	ND		50	58.4	117	57.3	115	2	70-130/30
108-88-3	Toluene	ND		50	54.5	109	52.9	106	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	61.2	122	59.7	119	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC23250-4MS	V21695.D	1	08/07/13	AMY	n/a	n/a	MSV838
MC23250-4MSD	V21696.D	1	08/07/13	AMY	n/a	n/a	MSV838
MC23250-4	V21682.D	1	08/07/13	AMY	n/a	n/a	MSV838

The QC reported here applies to the following samples: **Method:** SW846 8260B

MC23250-1, MC23250-4, MC23250-7, MC23250-8

CAS No.	Compound	MC23250-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	ND		50	52.6	105	51.7	103	2	70-130/30
79-01-6	Trichloroethene	ND		50	51.0	102	49.6	99	3	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	50.5	101	49.0	98	3	70-130/30
108-05-4	Vinyl Acetate	ND		50	44.9	90	44.4	89	1	70-130/30
75-01-4	Vinyl chloride	ND		50	42.7	85	41.2	82	4	70-130/30
1330-20-7	Xylene (total)	ND		150	155	103	153	102	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC23250-4	Limits
1868-53-7	Dibromofluoromethane	93%	93%	93%	70-130%
2037-26-5	Toluene-D8	101%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	97%	97%	94%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC23250
Account: AECOMNY AECOM
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC23250-1	R32661.D	87.0	74.0	133.0* a	96.0	115.0	134.0* a
MC23250-1DL	R32743.D 50X	78.0	59.0	0.0* b	78.0	101.0	118.0
MC23250-2	R32662.D	25.0	18.0	55.0	68.0	79.0	87.0
MC23250-3	R32663.D	38.0	32.0	77.0	59.0	72.0	73.0
MC23250-4	R32660.D	3.0* c	4.0* c	4.0* c	75.0	85.0	90.0
MC23250-5	R32664.D	20.0	22.0	51.0	66.0	85.0	90.0
MC23250-6	R32665.D	6.0* d	11.0* d	29.0	72.0	87.0	96.0
MC23250-6RE	F66305.D	2.0* d	6.0* d	26.0	61.0	53.0	87.0
MC23250-7	R32666.D	41.0	32.0	84.0	74.0	85.0	86.0
MC23250-9	R32667.D	34.0	24.0	60.0	63.0	71.0	69.0
MC23250-10	R32668.D	37.0	38.0	74.0	61.0	75.0	85.0
MC23250-11	R32669.D	46.0	33.0	93.0	77.0	92.0	96.0
MC23250-12	R32670.D	39.0	30.0	85.0	67.0	80.0	89.0
MC23250-13	R32671.D	49.0	46.0	91.0	74.0	87.0	94.0
MC23250-14	R32744.D 50X	0.0* b	0.0* b	0.0* b	49.0	62.0	76.0
MC23250-14	R32672.D	30.0	19.0	51.0	70.0	81.0	91.0
OP34263-BS	R32657.D	47.0	35.0	91.0	84.0	100.0	99.0
OP34263-MB	R32656.D	48.0	33.0	91.0	83.0	97.0	97.0
OP34263-MS	R32658.D	3.0* c	3.0* c	5.0* c	83.0	95.0	98.0
OP34263-MSD	R32659.D	26.0	29.0	34.0	99.0	123.0	131.0* a

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to possible matrix interference.
(b) Outside control limits due to dilution.
(c) Outside control limits due to possible matrix interfernce. Confirmed by MS/MSD.
(d) Outside control limits due to possible matrix interference. Confirmed by re-extraction/reanalysis.

Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1191-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32655.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\R130813\R32655.D Vial: 100
Acq On : 13 Aug 2013 3:19 pm Operator: kristinr
Sample : cc1159-80 Inst : MSR
Misc : op34163,msr1191,,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...\R130628_8270+.m (RTE Integrator)
Title : SW-864 Method 8270
Last Update : Fri Jul 12 11:59:38 2013
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	154	-0.08	4.24
2		N-nitrosodimethylamine	0.786	0.684	13.0	134	-0.12	2.38
3	T	Pyridine	1.430	1.227	14.2	132	-0.12	2.38
4	T	Aniline	1.822	1.669	8.4	137	-0.08	4.01
5	S	2-Fluorophenol	1.213	1.163	4.1	148	-0.07	3.31
6	T	bis(2-Chloroethyl)ether	0.865	0.784	9.4	140	-0.08	4.04
7	S	Phenol-d5	1.535	1.485	3.3	149	-0.05	3.99
8	C	Phenol	1.528	1.602	-4.8	157	-0.05	4.00
9	M	2-Chlorophenol	1.287	1.263	1.9	148	-0.07	4.10
10	T	1,3-Dichlorobenzene	1.456	1.381	5.2	147	-0.08	4.21
11	C	1,4-Dichlorobenzene	1.515	1.453	4.1	147	-0.08	4.25
12	T	1,2-Dichlorobenzene	1.357	1.315	3.1	148	-0.07	4.40
13	T	Benzyl alcohol	0.828	0.703	15.1	127	-0.06	4.36
14	T	bis(2-chloroisopropyl)eth	1.477	1.150	22.1#	119	-0.06	4.48
15	T	o-cresol	1.107	1.069	3.4	142	-0.05	4.47
16	T	Acetophenone	1.828	1.668	8.8	138	-0.06	4.58
17	T	Hexachloroethane	0.565	0.511	9.6	138	-0.07	4.65
18	P	N-Nitroso-di-n-propylamin	0.859	0.764	11.1	135	-0.06	4.60
19	T	m+p-cresols	1.213	1.204	0.7	148	-0.04	4.58
20		4-methylphenol	1.213	1.204	0.7	148	-0.04	4.58
21	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	114	-0.08	4.24
22		Benzaldehyde		----------NA----------				
23	I	Naphthalene-d8	1.000	1.000	0.0	151	-0.08	5.29
24	S	Nitrobenzene-d5	0.382	0.344	9.9	136	-0.08	4.71
25	T	Nitrobenzene	0.386	0.347	10.1	138	-0.09	4.72
26	T	Isophorone	0.643	0.605	5.9	141	-0.08	4.91
27	C	2-Nitrophenol	0.184	0.191	-3.8	154	-0.08	4.98
28	T	2,4-Dimethylphenol	0.341	0.317	7.0	140	-0.06	5.02
29	T	bis(2-Chloroethoxy)methan	0.388	0.368	5.2	144	-0.07	5.09
		----------	Amount	Calc.	%Drift	----------		
30	T	Benzoic acid	80.000	70.787	11.5	134	-0.02	5.14
		----------	AvgRF	CCRF	%Dev	----------		
31	C	2,4-Dichlorophenol	0.300	0.303	-1.0	150	-0.07	5.19
32	M	1,2,4-Trichlorobenzene	0.334	0.323	3.3	148	-0.08	5.25
33	T	Naphthalene	1.044	1.030	1.3	152	-0.08	5.31
34	T	2,6-Dichlorophenol	0.297	0.299	-0.7	152	-0.07	5.38
35	T	4-Chloroaniline	0.433	0.416	3.9	144	-0.07	5.37
36	C	Hexachlorobutadiene	0.208	0.201	3.4	146	-0.07	5.46

8.7.7 8

Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1191-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32655.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

37	C	4-Chloro-3-methylphenol	0.290	0.288	0.7	146	-0.04	5.79
38	T	2-Methylnaphthalene	0.732	0.705	3.7	145	-0.07	5.90
39	T	1-Methylnaphthalene	0.711	0.662	6.9	141	-0.07	5.99
40	T	1,2,4,5-Tetrachlorobenzen	0.387	0.361	6.7	145	-0.07	6.08
41	I	Naphthalene-d8a	1.000	1.000	0.0	110	-0.08	5.29
			Amount	Calc.	%Drift			
42		Caprolactam		NA				
			AvgRF	CCRF	%Dev			
43	I	Acenaphthene-d10	1.000	1.000	0.0	150	-0.08	6.82
44	T	Pentachloronitrobenzene	0.170	0.169	0.6	144	-0.02	8.19
45	P	Hexachlorocyclopentadiene	0.392	0.329	16.1	123	-0.08	6.09
46	C	2,4,6-Trichlorophenol	0.371	0.385	-3.8	148	-0.08	6.17
47	T	2,4,5-Trichlorophenol	0.391	0.409	-4.6	152	-0.08	6.21
48	S	2-Fluorobiphenyl	1.331	1.352	-1.6	152	-0.08	6.23
49	T	2-Chloronaphthalene	1.068	1.062	0.6	149	-0.08	6.32
50	M	Acenaphthylene	1.737	1.826	-5.1	154	-0.08	6.69
51	T	Dimethylphthalate	1.221	1.275	-4.4	153	-0.08	6.61
52	T	2,4-Dinitrotoluene	0.368	0.377	-2.4	148	-0.08	7.03
53	C	Acenaphthene	1.124	1.124	0.0	147	-0.08	6.85
54	P	2,4-Dinitrophenol	0.191	0.184	3.7	140	-0.08	6.90
55	T	Dibenzofuran	1.592	1.649	-3.6	153	-0.09	7.00
56	M	2,6-Dinitrotoluene	0.278	0.301	-8.3	151	-0.08	6.68
57	P	4-Nitrophenol	0.243	0.220	9.5	132	-0.07	6.97
58	T	2,3,4,6-Tetrachlorophenol	0.334	0.347	-3.9	145	-0.09	7.15
59	T	Fluorene	1.280	1.325	-3.5	152	-0.09	7.31
60	T	4-Chlorophenyl-phenylethe	0.625	0.670	-7.2	157	-0.09	7.31
61	T	Diethylphthalate	1.216	1.238	-1.8	148	-0.09	7.25
62	T	2-nitroaniline	0.340	0.381	-12.1	158	-0.08	6.44
63	T	3-nitroaniline	0.303	0.316	-4.3	151	-0.08	6.80
64	T	4-nitroaniline	0.300	0.323	-7.7	160	-0.08	7.38
65		Acenaphthene-d10a	1.000	1.000	0.0	107	-0.08	6.82
66		1,1'-Biphenyl		NA				
67	I	Phenanthrene-d10	1.000	1.000	0.0	155	-0.10	8.23
			Amount	Calc.	%Drift			
68	T	4,6-Dinitro-2-methylpheno	80.000	73.571	8.0	143	-0.08	7.41
			AvgRF	CCRF	%Dev			
69	C	n-Nitrosodiphenylamine	0.522	0.539	-3.3	155	-0.09	7.43
70	T	1,2-Diphenylhydrazine	0.678	0.617	9.0	139	-0.09	7.46
71	S	2,4,6-Tribromophenol	0.120	0.117	2.5	141	-0.09	7.57
72	T	4-Bromophenyl-phenylether	0.216	0.221	-2.3	156	-0.10	7.77
73	T	Hexachlorobenzene	0.244	0.236	3.3	149	-0.10	7.92
74	C	Pentachlorophenol	0.158	0.143	9.5	131	-0.09	8.11
75	T	Phenanthrene	1.081	1.038	4.0	147	-0.10	8.26
76	T	Anthracene	1.109	1.092	1.5	147	-0.09	8.31
77	T	Carbazole	0.988	1.011	-2.3	151	-0.09	8.48
78	T	Di-n-butylphthalate	1.196	1.217	-1.8	149	-0.09	8.90
79	C	Fluoranthene	1.140	1.206	-5.8	157	-0.10	9.54
80	I	Phenanthrene-d10a	1.000	1.000	0.0	108	-0.10	8.23
81		Atrazine		NA				
82	I	Chrysene-d12	1.000	1.000	0.0	156	-0.10	11.21

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Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1191-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32655.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

83	T	Benzidine	0.366	0.279	23.8#	114	-0.11	9.70
84	M	Pyrene	1.143	1.135	0.7	153	-0.12	9.80
85	S	Terphenyl-d14	0.856	0.830	3.0	150	-0.12	9.98
86		3,3-Dimethylbenzidine	0.471	0.535	-13.6	168	-0.11	10.55
87	T	Butylbenzylphthalate	0.473	0.466	1.5	150	-0.10	10.60
		----------	Amount	Calc.	%Drift			
88	T	3,3'-Dichlorobenzidine	80.000	80.927	-1.2	158	-0.09	11.18
		----------	AvgRF	CCRF	%Dev			
89	T	Benzo[a]anthracene	1.034	1.014	1.9	148	-0.10	11.19
90	T	Chrysene	1.028	0.978	4.9	147	-0.10	11.24
		----------	Amount	Calc.	%Drift			
91	T	bis(2-Ethylhexyl)phthalat	80.000	77.654	2.9	154	-0.09	11.31
		----------	AvgRF	CCRF	%Dev			
92	I	Perylene-d12	1.000	1.000	0.0	149	-0.11	12.80
		----------	Amount	Calc.	%Drift			
93	C	Di-n-octylphthalate	80.000	78.870	1.4	154	-0.10	12.00
		----------	AvgRF	CCRF	%Dev			
94	T	Benzo[b]fluoranthene	1.146	1.172	-2.3	151	-0.10	12.41
95	T	Benzo[k]fluoranthene	1.117	1.186	-6.2	149	-0.10	12.44
96	C	Benzo[a]pyrene	1.010	1.077	-6.6	147	-0.11	12.74
97	T	Indeno[1,2,3-cd]pyrene	1.261	1.275	-1.1	141	-0.18	13.99
98	T	Dibenz[a,h]anthracene	1.018	1.040	-2.2	145	-0.18	14.00
99	T	Benzo[g,h,i]perylene	1.047	1.038	0.9	140	-0.20	14.32
100		Naphthalene-d8b	1.000	1.000	0.0	110	-0.08	5.29
		----------	Amount	Calc.	%Drift			
101		o-Toluic Acid		----------NA----------				
102		m-Toluic Acid		----------NA----------				
		----------	AvgRF	CCRF	%Dev			
103		p-Toluic Acid		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
R31843.D R130628_8270+.m Thu Aug 15 09:59:48 2013

8.7.7

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Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1194-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32736.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\R130815\R32736.D Vial: 100
Acq On : 15 Aug 2013 8:04 am Operator: kristinr
Sample : cc1159-80 Inst : MSR
Misc : op34163,msr1194,,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...\R130628_8270+.m (RTE Integrator)
Title : SW-864 Method 8270
Last Update : Fri Jul 12 11:59:38 2013
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	149	-0.09	4.22
2		N-nitrosodimethylamine	0.786	0.731	7.0	138	-0.14	2.35
3	T	Pyridine	1.430	1.326	7.3	138	-0.14	2.37
4	T	Aniline	1.822	1.693	7.1	134	-0.09	3.99
5	S	2-Fluorophenol	1.213	1.210	0.2	149	-0.09	3.29
6	T	bis(2-Chloroethyl)ether	0.865	0.820	5.2	142	-0.09	4.02
7	S	Phenol-d5	1.535	1.545	-0.7	150	-0.07	3.97
8	C	Phenol	1.528	1.635	-7.0	155	-0.07	3.98
9	M	2-Chlorophenol	1.287	1.314	-2.1	149	-0.09	4.08
10	T	1,3-Dichlorobenzene	1.456	1.407	3.4	145	-0.10	4.19
11	C	1,4-Dichlorobenzene	1.515	1.519	-0.3	149	-0.09	4.23
12	T	1,2-Dichlorobenzene	1.357	1.358	-0.1	148	-0.09	4.38
13	T	Benzyl alcohol	0.828	0.678	18.1	119	-0.08	4.34
14	T	bis(2-chloroisopropyl)eth	1.477	1.216	17.7	122	-0.08	4.46
15	T	o-cresol	1.107	1.161	-4.9	150	-0.07	4.45
16	T	Acetophenone	1.828	1.735	5.1	139	-0.08	4.56
17	T	Hexachloroethane	0.565	0.525	7.1	137	-0.09	4.63
18	P	N-Nitroso-di-n-propylamin	0.859	0.799	7.0	137	-0.09	4.57
19	T	m+p-cresols	1.213	1.201	1.0	143	-0.06	4.57
20		4-methylphenol	1.213	1.201	1.0	143	-0.06	4.57
21	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	110	-0.09	4.22
22		Benzaldehyde		----------NA----------				
23	I	Naphthalene-d8	1.000	1.000	0.0	149	-0.10	5.27
24	S	Nitrobenzene-d5	0.382	0.359	6.0	140	-0.10	4.69
25	T	Nitrobenzene	0.386	0.342	11.4	134	-0.11	4.70
26	T	Isophorone	0.643	0.594	7.6	137	-0.10	4.89
27	C	2-Nitrophenol	0.184	0.189	-2.7	151	-0.10	4.97
28	T	2,4-Dimethylphenol	0.341	0.329	3.5	144	-0.08	5.00
29	T	bis(2-Chloroethoxy)methan	0.388	0.367	5.4	141	-0.09	5.07
		----------	Amount	Calc.	%Drift		----------	
30	T	Benzoic acid	80.000	67.302	15.9	125	-0.06	5.09
		----------	AvgRF	CCRF	%Dev		----------	
31	C	2,4-Dichlorophenol	0.300	0.286	4.7	140	-0.08	5.17
32	M	1,2,4-Trichlorobenzene	0.334	0.323	3.3	146	-0.10	5.24
33	T	Naphthalene	1.044	1.020	2.3	148	-0.10	5.29
34	T	2,6-Dichlorophenol	0.297	0.283	4.7	142	-0.09	5.36
35	T	4-Chloroaniline	0.433	0.402	7.2	137	-0.09	5.35
36	C	Hexachlorobutadiene	0.208	0.192	7.7	138	-0.09	5.44

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Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1194-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32736.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

37	C	4-Chloro-3-methylphenol	0.290	0.278	4.1	139	-0.06	5.77
38	T	2-Methylnaphthalene	0.732	0.684	6.6	139	-0.09	5.88
39	T	1-Methylnaphthalene	0.711	0.649	8.7	136	-0.09	5.97
40	T	1,2,4,5-Tetrachlorobenzen	0.387	0.356	8.0	141	-0.08	6.06
41	I	Naphthalene-d8a	1.000	1.000	0.0	108	-0.10	5.27
		----------	Amount	Calc.	%Drift	----------		
42		Caprolactam		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
43	I	Acenaphthene-d10	1.000	1.000	0.0	144	-0.10	6.81
44	T	Pentachloronitrobenzene	0.170	0.154	9.4	127	-0.05	8.16
45	P	Hexachlorocyclopentadiene	0.392	0.266	32.1#	95	-0.09	6.08
46	C	2,4,6-Trichlorophenol	0.371	0.375	-1.1	139	-0.10	6.15
47	T	2,4,5-Trichlorophenol	0.391	0.390	0.3	139	-0.09	6.19
48	S	2-Fluorobiphenyl	1.331	1.336	-0.4	145	-0.09	6.21
49	T	2-Chloronaphthalene	1.068	1.064	0.4	144	-0.10	6.30
50	M	Acenaphthylene	1.737	1.799	-3.6	146	-0.10	6.67
51	T	Dimethylphthalate	1.221	1.282	-5.0	148	-0.10	6.60
52	T	2,4-Dinitrotoluene	0.368	0.382	-3.8	145	-0.11	7.01
53	C	Acenaphthene	1.124	1.135	-1.0	143	-0.11	6.83
54	P	2,4-Dinitrophenol	0.191	0.163	14.7	119	-0.11	6.87
55	T	Dibenzofuran	1.592	1.638	-2.9	146	-0.11	6.98
56	M	2,6-Dinitrotoluene	0.278	0.297	-6.8	144	-0.10	6.65
57	P	4-Nitrophenol	0.243	0.204	16.0	118	-0.09	6.95
58	T	2,3,4,6-Tetrachlorophenol	0.334	0.326	2.4	131	-0.11	7.13
59	T	Fluorene	1.280	1.307	-2.1	144	-0.11	7.30
60	T	4-Chlorophenyl-phenylethe	0.625	0.652	-4.3	147	-0.11	7.29
61	T	Diethylphthalate	1.216	1.217	-0.1	140	-0.11	7.23
62	T	2-nitroaniline	0.340	0.375	-10.3	150	-0.10	6.42
63	T	3-nitroaniline	0.303	0.309	-2.0	142	-0.10	6.78
64	T	4-nitroaniline	0.300	0.314	-4.7	149	-0.11	7.35
65		Acenaphthene-d10a	1.000	1.000	0.0	103	-0.10	6.81
66		1,1'-Biphenyl		----------NA----------				
67	I	Phenanthrene-d10	1.000	1.000	0.0	144	-0.12	8.21
		----------	Amount	Calc.	%Drift	----------		
68	T	4,6-Dinitro-2-methylpheno	80.000	69.452	13.2	125	-0.11	7.38
		----------	AvgRF	CCRF	%Dev	----------		
69	C	n-Nitrosodiphenylamine	0.522	0.534	-2.3	142	-0.11	7.41
70	T	1,2-Diphenylhydrazine	0.678	0.637	6.0	133	-0.12	7.44
71	S	2,4,6-Tribromophenol	0.120	0.112	6.7	125	-0.12	7.54
72	T	4-Bromophenyl-phenylether	0.216	0.227	-5.1	149	-0.12	7.75
73	T	Hexachlorobenzene	0.244	0.236	3.3	138	-0.12	7.91
74	C	Pentachlorophenol	0.158	0.131	17.1	111	-0.11	8.09
75	T	Phenanthrene	1.081	1.072	0.8	141	-0.12	8.24
76	T	Anthracene	1.109	1.098	1.0	137	-0.12	8.28
77	T	Carbazole	0.988	1.016	-2.8	141	-0.12	8.45
78	T	Di-n-butylphthalate	1.196	1.232	-3.0	140	-0.11	8.87
79	C	Fluoranthene	1.140	1.222	-7.2	147	-0.12	9.52
80	I	Phenanthrene-d10a	1.000	1.000	0.0	100	-0.12	8.21
81		Atrazine		----------NA----------				
82	I	Chrysene-d12	1.000	1.000	0.0	146	-0.13	11.18

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8

Continuing Calibration Summary

Job Number: MC23250 **Sample:** MSR1194-CC1159
Account: AECOMNY AECOM **Lab FileID:** R32736.D
Project: METAMAW: Equity MGP, 254 Maspeth Avenue, Brooklyn, NY

83	T	Benzidine	0.366	0.239	34.7#	92	-0.13	9.67
84	M	Pyrene	1.143	1.150	-0.6	146	-0.14	9.77
85	S	Terphenyl-d14	0.856	0.809	5.5	137	-0.14	9.96
86		3,3-Dimethylbenzidine	0.471	0.466	1.1	137	-0.13	10.52
87	T	Butylbenzylphthalate	0.473	0.464	1.9	141	-0.12	10.57
		----------	Amount	Calc.	%Drift			
88	T	3,3'-Dichlorobenzidine	80.000	77.165	3.5	141	-0.12	11.15
		----------	AvgRF	CCRF	%Dev			
89	T	Benzo[a]anthracene	1.034	1.004	2.9	138	-0.13	11.16
90	T	Chrysene	1.028	0.993	3.4	140	-0.13	11.21
		----------	Amount	Calc.	%Drift			
91	T	bis(2-Ethylhexyl)phthalat	80.000	74.732	6.6	139	-0.11	11.29
		----------	AvgRF	CCRF	%Dev			
92	I	Perylene-d12	1.000	1.000	0.0	135	-0.14	12.77
		----------	Amount	Calc.	%Drift			
93	C	Di-n-octylphthalate	80.000	79.497	0.6	141	-0.12	11.98
		----------	AvgRF	CCRF	%Dev			
94	T	Benzo[b]fluoranthene	1.146	1.210	-5.6	141	-0.13	12.38
95	T	Benzo[k]fluoranthene	1.117	1.182	-5.8	134	-0.13	12.41
96	C	Benzo[a]pyrene	1.010	1.085	-7.4	134	-0.14	12.71
97	T	Indeno[1,2,3-cd]pyrene	1.261	1.279	-1.4	128	-0.22	13.95
98	T	Dibenz[a,h]anthracene	1.018	1.045	-2.7	132	-0.23	13.95
99	T	Benzo[g,h,i]perylene	1.047	1.042	0.5	127	-0.25	14.27
100		Naphthalene-d8b	1.000	1.000	0.0	108	-0.10	5.27
		----------	Amount	Calc.	%Drift			
101		o-Toluic Acid		----------NA----------				
102		m-Toluic Acid		----------NA----------				
		----------	AvgRF	CCRF	%Dev			
103		p-Toluic Acid		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
R31843.D R130628_8270+.m Thu Aug 15 11:53:23 2013

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8

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
February 2013

Data Usability Summary Report
National Grid/Equity Site
Groundwater Sampling Event
February 2013
Final

AECOM Environment

Prepared for:
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Data Usability Summary Report
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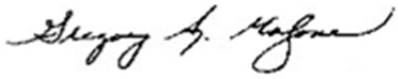

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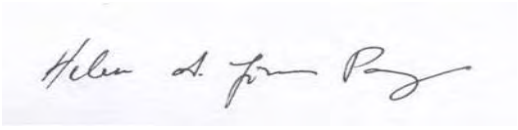

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on one data package from TestAmerica Laboratories, Inc., 777 New Durham Road, Edison, NJ 08817 for the analysis of groundwater samples collected on February 4-6, 2013 at the Equity Site.

The following analytical methods were requested on the chain-of-custody (COC) records:

- Volatile Organic Compounds by USEPA SW-846 Method 8260B with Tentatively Identified Compounds (TICs), by Library Search.,
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270C with TICs, by Library Search.,
- Trace RCRA Metals by USEPA SW-846 Methods 6010B and 7470A, and
- Total Cyanide by USEPA SW-846 Method 9012A.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, EPA-540-R-10-011, October 2010, as they apply to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The samples were processed and the results were reported under one sample delivery group (SDG). Table 1 provides a sample submittal list.

Table 1 - Sample Submittals
National Grid / Equity Groundwater Samples

Field ID	Laboratory ID	Matrix	Date Sampled
MW-12B	460-50461-1	Groundwater	2/4/2013
MW-12C	460-50461-2	Groundwater	2/4/2013
MW-11B	460-50461-3	Groundwater	2/4/2013
MW-11C	460-50461-4	Groundwater	2/4/2013
DUPE 2-4 [MW-12B]	460-50461-5	Groundwater (QC)	2/4/2013
MW-10C	460-50466-1	Groundwater	2/5/2013
MW-10C MS	460-50466-1MS	Groundwater (QC)	2/5/2013
MW-10C MSD	460-50466-1MSD	Groundwater (QC)	2/5/2013
MW-10C DUP	460-50466-1DU	Groundwater (QC)	2/5/2013
MW-9C	460-50516-1	Groundwater	2/6/2013

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate

recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e. groundwater) with the qualifications described below. Several data points were qualified because of low method and/or instrument bias and matrix effects and/or sample heterogeneity. There were instances of elevated reporting limits caused by the dilution required to bring the compound or analyte concentration(s) into the calibration range and/or to minimize matrix interferences. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

460-50461-1

Dilutions: Sample MW-11C required analysis at an initial two-fold dilution to bring the benzene concentration into the calibration range. The surrogate recoveries were within the quality control limits. No data qualifications were required. The initial dilution elevated the reporting and method detection limits for non-detect results.

Calibrations (pp. 363-365, 371-373, 379-381): The continuing calibration percent differences (%Ds) for bromoform, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene were less than the lower quality control limit of -20% on 02/12/13 at 05:14 on instrument VOAMS2. Sensitivity decreased with respect to the initial calibration average relative response factors. The bromoform, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene results for associated samples MW-9C and MW-10C were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for Freon-TF was less than the lower quality control limit of -20% on 02/12/13 at 18:01 on instrument VOAMS2. Sensitivity decreased with respect to the initial calibration average relative response factor. The Freon-TF results for associated samples MW-11C, MW-12C, and MW-11B were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration relative response factor for 1,4-dioxane was less than the advisory validation limit of 0.005 on 02/13/13 at 03:49 on instrument VOAMS2. The 1,4-dioxane results for associated samples MW-12B and DUPE 2-4 were non-detect and were qualified "UJ," as estimates, because of poor instrument sensitivity.

Matrix Spike Recoveries and RPDs (pp. 155-158, 161-164): The MW-10C MS/MSD recoveries for 1,2,3-trichlorobenzene were less than the lower advisory limit, but greater than 10%. The 1,2,3-trichlorobenzene result for sample MW-10C was non-detect and was qualified "UJ," as an estimate, because of low bias, attributable to matrix effects.

The MW-11C MS/MSD recoveries for trans-1,2-dichloroethene, trans-1,3-dichloropropene, and cis-1,3-dichloropropene were less than the lower advisory limit, but greater than 10%. The positive and non-detect trans-1,2-dichloroethene, trans-1,3-dichloropropene, and cis-1,3-dichloropropene results for sample MW-11C were qualified "J/UJ," as estimates, because of low bias, attributable to matrix effects.

2.0 Semivolatile Organic Compounds

460-50461-1

Calibrations (pp. 708, 777, 830, 962-964, 982-984, 992-994, 1000-1002): The initial calibration relative standard deviations (RSDs) for benzaldehyde were greater than 15% on 02/11/13 and 02/15/13 on instrument BNAMS11 and 02/12/13 on instrument BNAMS5. The benzaldehyde results for all groundwater samples were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

The continuing calibration %Ds for benzaldehyde and 4-nitrophenol were less than the lower quality control limit of -20% on 02/12/12 at 17:18 on instrument BNAMS11. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde and 4-nitrophenol results for associated samples MW-12B, MW-11B, and DUPE 2-4 were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for benzaldehyde, 3,3'-dichlorobenzidine, and 2,2'-oxybis(1-chloroproane) were less than the lower quality control limit of -20% on 02/13/12 at 19:24 on instrument BNAMS11. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde, 3,3'-dichlorobenzidine, and 2,2'-oxybis(1-chloropropane) results for associated sample MW-12C were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %Ds for benzaldehyde, 2-nitroaniline, 4-nitrophenol, and 2,2'-oxybis(1-chloroproane) were less than the lower quality control limit of -20% on 02/14/12 at 03:48 on instrument BNAMS11. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde, 2-nitroaniline, 4-nitrophenol, and 2,2'-oxybis(1-chloroproane) results for associated sample MW-11C were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration %D for benzaldehyde was less than the lower quality control limit of -20% on 02/16/12 at 11:00 on instrument BNAMS11. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde result for associated sample MW-9C was non-detect and was qualified "UJ," as an estimate, because of low instrument bias.

Laboratory Control Sample Recoveries (pp. 497-506): The LCS/LCSD (400-146673/2-A and 3-A) recoveries for 2,2'-oxybis(1-chloroproane) were less than the lower quality control limit, but greater than 10%. The 2,2'-oxybis(1-chloroproane) result for associated sample MW-9C was non-detect and was qualified "UJ," as an estimate, because of low method bias.

Matrix Spike Recoveries and RPDs (pp. 507-510): MW-10C MS/MSD recoveries 3,3'-dichlorobenzidine were less than the lower advisory limit, but greater than 10%. The 3,3'-dichlorobenzidine result for associated sample MW-10C was non-detect and was qualified "UJ," as an estimate, because of low bias attributable to matrix effects.

3.0 Trace Metals

460-50461-1

No data quality issues were noted. No data qualifications were required.

4.0 Total Cyanide

460-50461-1

Matrix Spike Recovery (pp. 1972-1973): The MW-10C MS/MSD and MW-9C MS/MSD recoveries for total cyanide were less than the lower advisory limit of 90%, and less than the validation advisory limit of 75%, but greater than 30%. The RPD between the MW-10C MS and MSD recoveries was greater than the maximum advisory limit of 10%. The positive and non-detect total cyanide results for associated samples MW-9C, MW-10C, MW-11B, MW-11C, MW-12B, DUPE 2-4, and MW-12C were qualified “J/UJ,” as estimates, because of low bias and imprecision, attributable to matrix effects..

5.0 Field Duplicate Comparisons

A field duplicate sample was collected at groundwater well MW-12B. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 30% for groundwater or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

Inorganics: The RPD must be ≤ 20% for groundwater or the difference between the parent and field duplicate results must be less than twice the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate sample were non-detects, with exception to those listed in Table 2 below. All RPDs were less than the maximum advisory limit, field sampling/laboratory precision and sample homogeneity were acceptable, no data qualifications were required.

The following notations are used in the field precision table.

RPD: Relative percent difference

µg/L: micrograms per liter (ppb)

mg/L: milligrams per liter (ppm)

Table 2 – Field Precision
National Grid / Equity Groundwater Samples

Parameter	MW-12B		DUPE 2-4		RPD (%)
Vinyl chloride	0.32 J	µg/L	0.33 J	µg/L	3
Carbon disulfide	2.5	µg/L	2.3	µg/L	8
1,1-Dichloroethane	0.20 J	µg/L	0.17 J	µg/L	16
cis-1,2-Dichloroethene	0.46 J	µg/L	0.45 J	µg/L	2
Benzene	86	µg/L	88	µg/L	2
Ethylbenzene	0.46 J	µg/L	0.54 J	µg/L	16
Isopropylbenzene	0.11 J	µg/L	0.11 J	µg/L	0
MTBE	0.17 J	µg/L	0.17 J	µg/L	0
Toluene	0.37 J	µg/L	0.37 J	µg/L	0
Tetrachloroethene	0.41 J	µg/L	0.37 J	µg/L	10
Barium	357	µg/L	362	µg/L	1
Total Cyanide	0.023	mg/L	0.026	mg/L	12

6.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: b51948.d

Analysis Method: 8260B | Date Collected: 02/04/2013 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 02/13/2013 13:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147035 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.32	J	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	2.5		1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.20	J	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.46	J	1.0	0.18
67-66-3	Chloroform	0.080	U	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	86		1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.46	J	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.11	J	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.17	J	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	UJ	50	36
79-01-6	Trichloroethene	0.090	U	1.0	0.090
108-88-3	Toluene	0.37	J	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: b51948.d

Analysis Method: 8260B | Date Collected: 02/04/2013 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 02/13/2013 13:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147035 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	0.41	J	1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
460-00-4	Bromofluorobenzene	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B Lab Sample ID: 460-50461-1

Matrix: Water Lab File ID: b51948.d

Analysis Method: 8260B Date Collected: 02/04/2013 11:40

Sample wt/vol: 5(mL) Date Analyzed: 02/13/2013 13:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 147035 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: b51909.d

Analysis Method: 8260B | Date Collected: 02/04/2013 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.40	J	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	4.4	J	5.0	2.7
75-15-0	Carbon disulfide	2.0		1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.8		1.0	0.13
156-59-2	cis-1,2-Dichloroethene	17		1.0	0.18
67-66-3	Chloroform	29		1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	250		1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	76		1.0	0.12
100-41-4	Ethylbenzene	48		1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	1.1		1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.48	J	1.0	0.14
76-13-1	Freon TF	0.080	UJ	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	U	50	36
79-01-6	Trichloroethene	40		1.0	0.090
108-88-3	Toluene	190		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: b51909.d

Analysis Method: 8260B | Date Collected: 02/04/2013 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	26		1.0	0.10
1330-20-7	Xylenes, Total	120		3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
460-00-4	Bromofluorobenzene	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: b51909.d

Analysis Method: 8260B | Date Collected: 02/04/2013 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 21:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 947

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	1,2,4-Trimethylbenzene	10.52	15	
	C9H10 Aromatic	10.58	26	J
496-11-7	2,3-Dihydroindene	11.03	17	
95-13-6	Indene	11.21	340	J N
	C10H10 Aromatic	12.12	20	J
	C10H10 Aromatic-1	12.20	30	J
91-20-3	Naphthalene	12.60	430	
270-82-6	2-Benzothiophene #	12.71	22	J N
91-57-6	Naphthalene, 2-methyl-	13.65	26	J N
90-12-0	Naphthalene, 1-methyl-	13.87	21	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B Lab Sample ID: 460-50461-3

Matrix: Water Lab File ID: b51912.d

Analysis Method: 8260B Date Collected: 02/04/2013 13:50

Sample wt/vol: 5(mL) Date Analyzed: 02/12/2013 22:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 147012 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	8.9		5.0	2.7
75-15-0	Carbon disulfide	1.8		1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.18	U	1.0	0.18
67-66-3	Chloroform	0.080	U	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	34		1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	12		1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.18	J	1.0	0.16
98-82-8	Isopropylbenzene	1.2		1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.14	U	1.0	0.14
76-13-1	Freon TF	0.080	UJ	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	U	50	36
79-01-6	Trichloroethene	0.090	U	1.0	0.090
108-88-3	Toluene	0.42	J	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: b51912.d

Analysis Method: 8260B | Date Collected: 02/04/2013 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 22:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.94	J	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
460-00-4	Bromofluorobenzene	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: b51912.d

Analysis Method: 8260B | Date Collected: 02/04/2013 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 22:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 84

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
496-11-7	2,3-Dihydroindene	11.03	84	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: b51907.d

Analysis Method: 8260B | Date Collected: 02/04/2013 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 20:54

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.20	U	2.0	0.20
74-83-9	Bromomethane	0.36	U	2.0	0.36
75-01-4	Vinyl chloride	0.28	U	2.0	0.28
75-00-3	Chloroethane	0.34	U	2.0	0.34
75-09-2	Methylene Chloride	0.36	U	2.0	0.36
67-64-1	Acetone	5.4	U	10	5.4
75-15-0	Carbon disulfide	1.9	J	2.0	0.26
75-69-4	Trichlorofluoromethane	0.30	U	2.0	0.30
75-35-4	1,1-Dichloroethene	0.18	U	2.0	0.18
75-34-3	1,1-Dichloroethane	0.26	U	2.0	0.26
156-60-5	trans-1,2-Dichloroethene	120	J	2.0	0.26
156-59-2	cis-1,2-Dichloroethene	100		2.0	0.36
67-66-3	Chloroform	18		2.0	0.16
78-93-3	2-Butanone	4.6	U	10	4.6
107-06-2	1,2-Dichloroethane	0.38	U	2.0	0.38
71-55-6	1,1,1-Trichloroethane	0.12	U	2.0	0.12
56-23-5	Carbon tetrachloride	0.12	U	2.0	0.12
71-43-2	Benzene	400		2.0	0.16
75-25-2	Bromoform	0.38	U	2.0	0.38
100-42-5	Styrene	4.9		2.0	0.24
100-41-4	Ethylbenzene	100		2.0	0.20
108-90-7	Chlorobenzene	0.22	U	2.0	0.22
110-82-7	Cyclohexane	0.32	U	2.0	0.32
98-82-8	Isopropylbenzene	5.6		2.0	0.16
591-78-6	2-Hexanone	1.0	U	10	1.0
1634-04-4	MTBE	0.28	U	2.0	0.28
76-13-1	Freon TF	0.16	UJ	2.0	0.16
79-20-9	Methyl acetate	0.68	U	4.0	0.68
123-91-1	1,4-Dioxane	72	U	100	72
79-01-6	Trichloroethene	90		2.0	0.18
108-88-3	Toluene	13		2.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.48	UJ	2.0	0.48
108-10-1	4-Methyl-2-pentanone	2.0	U	10	2.0
10061-01-5	cis-1,3-Dichloropropene	0.36	UJ	2.0	0.36
95-50-1	1,2-Dichlorobenzene	0.42	U	2.0	0.42
541-73-1	1,3-Dichlorobenzene	0.28	U	2.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: b51907.d

Analysis Method: 8260B | Date Collected: 02/04/2013 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 20:54

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.46	U	2.0	0.46
120-82-1	1,2,4-Trichlorobenzene	0.68	U	2.0	0.68
87-61-6	1,2,3-Trichlorobenzene	1.0	U	2.0	1.0
78-87-5	1,2-Dichloropropane	0.18	U	2.0	0.18
108-87-2	Methylcyclohexane	0.28	U	2.0	0.28
127-18-4	Tetrachloroethene	1.8	J	2.0	0.20
1330-20-7	Xylenes, Total	51		6.0	0.72
96-12-8	1,2-Dibromo-3-Chloropropane	0.80	U	2.0	0.80
79-34-5	1,1,2,2-Tetrachloroethane	0.32	U	2.0	0.32
79-00-5	1,1,2-Trichloroethane	0.38	U	2.0	0.38
124-48-1	Dibromochloromethane	0.40	U	2.0	0.40
106-93-4	1,2-Dibromoethane	0.56	U	2.0	0.56
75-71-8	Dichlorodifluoromethane	0.44	U	2.0	0.44
74-97-5	Bromochloromethane	0.54	U	2.0	0.54
75-27-4	Bromodichloromethane	0.24	U	2.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
460-00-4	Bromofluorobenzene	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: b51907.d

Analysis Method: 8260B | Date Collected: 02/04/2013 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 20:54

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147012 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 871

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Ethylmethylbenzene isomer-1	10.38	16	J
95-63-6	1,2,4-Trimethylbenzene	10.52	22	
	Trimethylbenzene isomer	10.86	26	J
496-11-7	2,3-Dihydroindene	11.03	24	
95-13-6	Indene	11.21	35	J N
	C10H10 Aromatic	12.12	28	J
	C10H10 Aromatic-1	12.20	42	J
91-20-3	Naphthalene	12.60	590	
95-15-8	Benzo[b]thiophene	12.71	24	J N
	Methylnaphthalene isomer	13.87	64	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 Lab Sample ID: 460-50461-5

Matrix: Water Lab File ID: b51949.d

Analysis Method: 8260B Date Collected: 02/04/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/13/2013 13:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 147035 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.33	J	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	2.3		1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.17	J	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.45	J	1.0	0.18
67-66-3	Chloroform	0.080	U	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.19	U	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	88		1.0	0.080
75-25-2	Bromoform	0.19	U	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.54	J	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.11	J	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.17	J	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	UJ	50	36
79-01-6	Trichloroethene	0.090	U	1.0	0.090
108-88-3	Toluene	0.37	J	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Matrix: Water | Lab File ID: b51949.d

Analysis Method: 8260B | Date Collected: 02/04/2013 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 02/13/2013 13:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 147035 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	U	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	0.37	J	1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 Lab Sample ID: 460-50461-5

Matrix: Water Lab File ID: b51949.d

Analysis Method: 8260B Date Collected: 02/04/2013 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/13/2013 13:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 147035 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: b51879.d

Analysis Method: 8260B | Date Collected: 02/05/2013 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 09:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 146918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.14	U	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.090	U	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.27	J	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	2.2		1.0	0.18
67-66-3	Chloroform	0.12	J	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.48	J	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	0.26	J	1.0	0.080
75-25-2	Bromoform	0.19	UJ	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.080	U	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.32	J	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	U	50	36
79-01-6	Trichloroethene	1.9		1.0	0.090
108-88-3	Toluene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: b51879.d

Analysis Method: 8260B | Date Collected: 02/05/2013 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 09:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 146918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	UJ	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	UJ	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	11		1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C Lab Sample ID: 460-50466-1

Matrix: Water Lab File ID: b51879.d

Analysis Method: 8260B Date Collected: 02/05/2013 09:45

Sample wt/vol: 5(mL) Date Analyzed: 02/12/2013 09:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 146918 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C Lab Sample ID: 460-50516-1

Matrix: Water Lab File ID: b51874.d

Analysis Method: 8260B Date Collected: 02/06/2013 06:15

Sample wt/vol: 5(mL) Date Analyzed: 02/12/2013 07:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 146918 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.10	U	1.0	0.10
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.27	J	1.0	0.14
75-00-3	Chloroethane	0.17	U	1.0	0.17
75-09-2	Methylene Chloride	0.18	U	1.0	0.18
67-64-1	Acetone	2.7	U	5.0	2.7
75-15-0	Carbon disulfide	0.13	U	1.0	0.13
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.24	J	1.0	0.090
75-34-3	1,1-Dichloroethane	0.13	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	0.32	J	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	16		1.0	0.18
67-66-3	Chloroform	0.42	J	1.0	0.080
78-93-3	2-Butanone	2.3	U	5.0	2.3
107-06-2	1,2-Dichloroethane	0.33	J	1.0	0.19
71-55-6	1,1,1-Trichloroethane	0.060	U	1.0	0.060
56-23-5	Carbon tetrachloride	0.060	U	1.0	0.060
71-43-2	Benzene	0.30	J	1.0	0.080
75-25-2	Bromoform	0.19	UJ	1.0	0.19
100-42-5	Styrene	0.12	U	1.0	0.12
100-41-4	Ethylbenzene	0.10	U	1.0	0.10
108-90-7	Chlorobenzene	0.11	U	1.0	0.11
110-82-7	Cyclohexane	0.16	U	1.0	0.16
98-82-8	Isopropylbenzene	0.080	U	1.0	0.080
591-78-6	2-Hexanone	0.50	U	5.0	0.50
1634-04-4	MTBE	0.45	J	1.0	0.14
76-13-1	Freon TF	0.080	U	1.0	0.080
79-20-9	Methyl acetate	0.34	U	2.0	0.34
123-91-1	1,4-Dioxane	36	U	50	36
79-01-6	Trichloroethene	19		1.0	0.090
108-88-3	Toluene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.24	U	1.0	0.24
108-10-1	4-Methyl-2-pentanone	0.99	U	5.0	0.99
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.0	0.18
95-50-1	1,2-Dichlorobenzene	0.21	U	1.0	0.21
541-73-1	1,3-Dichlorobenzene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C | Lab Sample ID: 460-50516-1

Matrix: Water | Lab File ID: b51874.d

Analysis Method: 8260B | Date Collected: 02/06/2013 06:15

Sample wt/vol: 5(mL) | Date Analyzed: 02/12/2013 07:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 146918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.23	U	1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	0.34	UJ	1.0	0.34
87-61-6	1,2,3-Trichlorobenzene	0.51	UJ	1.0	0.51
78-87-5	1,2-Dichloropropane	0.090	U	1.0	0.090
108-87-2	Methylcyclohexane	0.14	U	1.0	0.14
127-18-4	Tetrachloroethene	91		1.0	0.10
1330-20-7	Xylenes, Total	0.36	U	3.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	0.40	U	1.0	0.40
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.19	U	1.0	0.19
124-48-1	Dibromochloromethane	0.20	U	1.0	0.20
106-93-4	1,2-Dibromoethane	0.28	U	1.0	0.28
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.27	U	1.0	0.27
75-27-4	Bromodichloromethane	0.12	U	1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130
460-00-4	Bromofluorobenzene	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C Lab Sample ID: 460-50516-1

Matrix: Water Lab File ID: b51874.d

Analysis Method: 8260B Date Collected: 02/06/2013 06:15

Sample wt/vol: 5(mL) Date Analyzed: 02/12/2013 07:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 146918 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: z18266.d

Analysis Method: 8270C | Date Collected: 02/04/2013 11:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.84	U	10	0.84
95-57-8	2-Chlorophenol	2.3	U	10	2.3
95-48-7	2-Methylphenol	1.9	U	10	1.9
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.1	UJ	10	2.1
98-86-2	Acetophenone	2.8	U	10	2.8
111-44-4	Bis(2-chloroethyl)ether	0.29	U	1.0	0.29
108-60-1	2,2'-oxybis[1-chloropropane]	2.1	U	10	2.1
621-64-7	N-Nitrosodi-n-propylamine	0.26	U	1.0	0.26
98-95-3	Nitrobenzene	0.31	U	1.0	0.31
67-72-1	Hexachloroethane	0.26	U	1.0	0.26
78-59-1	Isophorone	2.8	U	10	2.8
88-75-5	2-Nitrophenol	2.5	U	10	2.5
105-67-9	2,4-Dimethylphenol	3.5	U	10	3.5
120-83-2	2,4-Dichlorophenol	2.7	U	10	2.7
111-91-1	Bis(2-chloroethoxy)methane	2.7	U	10	2.7
91-20-3	Naphthalene	2.8	U	10	2.8
106-47-8	4-Chloroaniline	2.1	U	10	2.1
87-68-3	Hexachlorobutadiene	0.59	U	2.1	0.59
105-60-2	Caprolactam	2.6	U	10	2.6
59-50-7	4-Chloro-3-methylphenol	2.6	U	10	2.6
91-57-6	2-Methylnaphthalene	3.1	U	10	3.1
118-74-1	Hexachlorobenzene	0.30	U	1.0	0.30
77-47-4	Hexachlorocyclopentadiene	1.8	U	10	1.8
88-06-2	2,4,6-Trichlorophenol	2.5	U	10	2.5
95-95-4	2,4,5-Trichlorophenol	2.7	U	10	2.7
92-52-4	Diphenyl	2.9	U	10	2.9
91-58-7	2-Chloronaphthalene	2.8	U	10	2.8
88-74-4	2-Nitroaniline	5.1	U	21	5.1
606-20-2	2,6-Dinitrotoluene	0.63	U	2.1	0.63
131-11-3	Dimethyl phthalate	2.9	U	10	2.9
208-96-8	Acenaphthylene	2.8	U	10	2.8
99-09-2	3-Nitroaniline	5.2	U	21	5.2
83-32-9	Acenaphthene	2.8	U	10	2.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: z18266.d

Analysis Method: 8270C | Date Collected: 02/04/2013 11:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.9	U ✗	31	6.9
51-28-5	2,4-Dinitrophenol	5.6	U ✗	31	5.6
132-64-9	Dibenzofuran	2.9	U	10	2.9
84-66-2	Diethyl phthalate	3.0	U	10	3.0
86-73-7	Fluorene	2.9	U	10	2.9
206-44-0	Fluoranthene	3.3	U	10	3.3
84-74-2	Di-n-butyl phthalate	3.0	U	10	3.0
121-14-2	2,4-Dinitrotoluene	0.48	U	2.1	0.48
7005-72-3	4-Chlorophenyl phenyl ether	2.6	U	10	2.6
100-01-6	4-Nitroaniline	6.0	U J	21	6.0
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	31	4.8
101-55-3	4-Bromophenyl phenyl ether	2.6	U	10	2.6
1912-24-9	Atrazine	3.1	U	10	3.1
120-12-7	Anthracene	2.9	U	10	2.9
86-74-8	Carbazole	3.3	U	10	3.3
85-01-8	Phenanthrene	3.2	U	10	3.2
87-86-5	Pentachlorophenol	5.5	U ✗	31	5.5
129-00-0	Pyrene	3.0	U	10	3.0
218-01-9	Chrysene	3.2	U	10	3.2
207-08-9	Benzo[k]fluoranthene	0.27	U	1.0	0.27
191-24-2	Benzo[g,h,i]perylene	2.1	U	10	2.1
205-99-2	Benzo[b]fluoranthene	0.27	U	1.0	0.27
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.28	U	1.0	0.28
86-30-6	N-Nitrosodiphenylamine	3.0	U	10	3.0
85-68-7	Butyl benzyl phthalate	2.6	U	10	2.6
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	U	10	2.1
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.093	U	1.0	0.093
91-94-1	3,3'-Dichlorobenzidine	5.1	U	21	5.1
95-94-3	1,2,4,5-Tetrachlorobenzene	2.7	U	10	2.7
58-90-2	2,3,4,6-Tetrachlorophenol	2.6	U	10	2.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: z18266.d

Analysis Method: 8270C | Date Collected: 02/04/2013 11:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		56-112
4165-62-2	Phenol-d5	29		10-48
1718-51-0	Terphenyl-d14	94		50-122
118-79-6	2,4,6-Tribromophenol	75		46-122
367-12-4	2-Fluorophenol	39		10-65
321-60-8	2-Fluorobiphenyl	95		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12B | Lab Sample ID: 460-50461-1

Matrix: Water | Lab File ID: z18266.d

Analysis Method: 8270C | Date Collected: 02/04/2013 11:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

Number TICs Found: 16 | TIC Result Total: 358.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown-1	6.91	12	J
	Unknown Alkyl Substituted Benzene	9.38	8.8	J
	Unknown-2	12.19	9.8	J
	Unknown-3	12.50	8.3	J
	Unknown-4	12.53	16	J
	Unknown-5	13.28	16	J
	Unknown-6	13.64	18	J
	Unknown-7	13.94	31	J
	Unknown-8	14.58	91	J
	Unknown-9	14.74	16	J
	Unknown-10	14.86	11	J
	Unknown-11	14.97	11	J
	Unknown-12	15.04	68	J
	Unknown-13	15.29	11	J
	Unknown-14	15.65	17	J
	Unknown-15	15.73	14	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: z18326.d

Analysis Method: 8270C | Date Collected: 02/04/2013 12:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 00:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	4.2	U	52	4.2
95-57-8	2-Chlorophenol	11	U	52	11
95-48-7	2-Methylphenol	9.3	U	52	9.3
106-44-5	4-Methylphenol	8.2	U	52	8.2
100-52-7	Benzaldehyde	10	U J	52	10
98-86-2	Acetophenone	14	U	52	14
111-44-4	Bis(2-chloroethyl)ether	1.4	U	5.2	1.4
108-60-1	2,2'-oxybis[1-chloropropane]	10	U J	52	10
621-64-7	N-Nitrosodi-n-propylamine	1.3	U	5.2	1.3
98-95-3	Nitrobenzene	1.5	U	5.2	1.5
67-72-1	Hexachloroethane	1.3	U	5.2	1.3
78-59-1	Isophorone	14	U	52	14
88-75-5	2-Nitrophenol	12	U	52	12
105-67-9	2,4-Dimethylphenol	18	U	52	18
120-83-2	2,4-Dichlorophenol	13	U	52	13
111-91-1	Bis(2-chloroethoxy)methane	13	U	52	13
91-20-3	Naphthalene	610		52	14
106-47-8	4-Chloroaniline	10	U	52	10
87-68-3	Hexachlorobutadiene	2.9	U	10	2.9
105-60-2	Caprolactam	13	U	52	13
59-50-7	4-Chloro-3-methylphenol	13	U	52	13
91-57-6	2-Methylnaphthalene	54		52	15
118-74-1	Hexachlorobenzene	1.5	U	5.2	1.5
77-47-4	Hexachlorocyclopentadiene	8.8	U	52	8.8
88-06-2	2,4,6-Trichlorophenol	12	U	52	12
95-95-4	2,4,5-Trichlorophenol	13	U	52	13
92-52-4	Diphenyl	14	U	52	14
91-58-7	2-Chloronaphthalene	14	U	52	14
88-74-4	2-Nitroaniline	25	U	100	25
606-20-2	2,6-Dinitrotoluene	3.1	U	10	3.1
131-11-3	Dimethyl phthalate	14	U	52	14
208-96-8	Acenaphthylene	20	J	52	14
99-09-2	3-Nitroaniline	26	U	100	26
83-32-9	Acenaphthene	14	U	52	14

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: z18326.d

Analysis Method: 8270C | Date Collected: 02/04/2013 12:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 00:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	35	U	150	35
51-28-5	2,4-Dinitrophenol	28	U	150	28
132-64-9	Dibenzofuran	14	U	52	14
84-66-2	Diethyl phthalate	15	U	52	15
86-73-7	Fluorene	14	U	52	14
206-44-0	Fluoranthene	16	U	52	16
84-74-2	Di-n-butyl phthalate	15	U	52	15
121-14-2	2,4-Dinitrotoluene	2.4	U	10	2.4
7005-72-3	4-Chlorophenyl phenyl ether	13	U	52	13
100-01-6	4-Nitroaniline	30	U	100	30
534-52-1	4,6-Dinitro-2-methylphenol	24	U	150	24
101-55-3	4-Bromophenyl phenyl ether	13	U	52	13
1912-24-9	Atrazine	15	U	52	15
120-12-7	Anthracene	14	U	52	14
86-74-8	Carbazole	16	U	52	16
85-01-8	Phenanthrene	16	U	52	16
87-86-5	Pentachlorophenol	27	U	150	27
129-00-0	Pyrene	15	U	52	15
218-01-9	Chrysene	16	U	52	16
207-08-9	Benzo[k]fluoranthene	1.3	U	5.2	1.3
191-24-2	Benzo[g,h,i]perylene	10	U	52	10
205-99-2	Benzo[b]fluoranthene	1.3	U	5.2	1.3
50-32-8	Benzo[a]pyrene	0.72	U	5.2	0.72
56-55-3	Benzo[a]anthracene	1.4	U	5.2	1.4
86-30-6	N-Nitrosodiphenylamine	15	U	52	15
85-68-7	Butyl benzyl phthalate	13	U	52	13
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	52	10
117-84-0	Di-n-octyl phthalate	7.7	U	52	7.7
193-39-5	Indeno[1,2,3-cd]pyrene	0.77	U	5.2	0.77
53-70-3	Dibenz(a,h)anthracene	0.46	U	5.2	0.46
91-94-1	3,3'-Dichlorobenzidine	25	UJ	100	25
95-94-3	1,2,4,5-Tetrachlorobenzene	13	U	52	13
58-90-2	2,3,4,6-Tetrachlorophenol	13	U	52	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: z18326.d

Analysis Method: 8270C | Date Collected: 02/04/2013 12:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 00:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147316 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	98		56-112
4165-62-2	Phenol-d5	36		10-48
1718-51-0	Terphenyl-d14	119		50-122
118-79-6	2,4,6-Tribromophenol	107		46-122
367-12-4	2-Fluorophenol	57		10-65
321-60-8	2-Fluorobiphenyl	107		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-12C | Lab Sample ID: 460-50461-2

Matrix: Water | Lab File ID: z18326.d

Analysis Method: 8270C | Date Collected: 02/04/2013 12:40

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 00:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147316 | Units: ug/L

Number TICs Found: 7 | TIC Result Total: 679

CAS NO.	COMPOUND NAME	RT	RESULT	Q
100-41-4	Ethylbenzene	3.07	86	J N
	Xylene isomer	3.14	170	J
100-42-5	Styrene	3.35	200	J N
111-76-2	Ethanol, 2-butoxy-	3.42	54	J N
	C10H12 Aromatic	4.26	80	J
	C10H10 Aromatic	5.48	44	J
90-12-0	1-Methylnaphthalene	6.51	45	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: z18268.d

Analysis Method: 8270C | Date Collected: 02/04/2013 13:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	3.7	J	10	0.84
95-57-8	2-Chlorophenol	2.3	U	10	2.3
95-48-7	2-Methylphenol	1.9	U	10	1.9
106-44-5	4-Methylphenol	2.1	J	10	1.6
100-52-7	Benzaldehyde	2.1	UJ	10	2.1
98-86-2	Acetophenone	2.8	U	10	2.8
111-44-4	Bis(2-chloroethyl)ether	0.29	U	1.0	0.29
108-60-1	2,2'-oxybis[1-chloropropane]	2.1	U	10	2.1
621-64-7	N-Nitrosodi-n-propylamine	0.26	U	1.0	0.26
98-95-3	Nitrobenzene	0.31	U	1.0	0.31
67-72-1	Hexachloroethane	0.26	U	1.0	0.26
78-59-1	Isophorone	2.8	U	10	2.8
88-75-5	2-Nitrophenol	2.5	U	10	2.5
105-67-9	2,4-Dimethylphenol	3.5	U	10	3.5
120-83-2	2,4-Dichlorophenol	2.7	U	10	2.7
111-91-1	Bis(2-chloroethoxy)methane	2.7	U	10	2.7
91-20-3	Naphthalene	2.8	U	10	2.8
106-47-8	4-Chloroaniline	2.1	U	10	2.1
87-68-3	Hexachlorobutadiene	0.59	U	2.1	0.59
105-60-2	Caprolactam	2.6	U	10	2.6
59-50-7	4-Chloro-3-methylphenol	2.6	U	10	2.6
91-57-6	2-Methylnaphthalene	3.1	U	10	3.1
118-74-1	Hexachlorobenzene	0.30	U	1.0	0.30
77-47-4	Hexachlorocyclopentadiene	1.8	U	10	1.8
88-06-2	2,4,6-Trichlorophenol	2.5	U	10	2.5
95-95-4	2,4,5-Trichlorophenol	2.7	U	10	2.7
92-52-4	Diphenyl	2.9	U	10	2.9
91-58-7	2-Chloronaphthalene	2.8	U	10	2.8
88-74-4	2-Nitroaniline	5.1	U	21	5.1
606-20-2	2,6-Dinitrotoluene	0.63	U	2.1	0.63
131-11-3	Dimethyl phthalate	2.9	U	10	2.9
208-96-8	Acenaphthylene	2.8	U	10	2.8
99-09-2	3-Nitroaniline	5.2	U	21	5.2
83-32-9	Acenaphthene	2.8	U	10	2.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: z18268.d

Analysis Method: 8270C | Date Collected: 02/04/2013 13:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.9	U	31	6.9
51-28-5	2,4-Dinitrophenol	5.6	U	31	5.6
132-64-9	Dibenzofuran	2.9	U	10	2.9
84-66-2	Diethyl phthalate	3.0	U	10	3.0
86-73-7	Fluorene	2.9	U	10	2.9
206-44-0	Fluoranthene	3.3	U	10	3.3
84-74-2	Di-n-butyl phthalate	3.0	U	10	3.0
121-14-2	2,4-Dinitrotoluene	0.48	U	2.1	0.48
7005-72-3	4-Chlorophenyl phenyl ether	2.6	U	10	2.6
100-01-6	4-Nitroaniline	6.0	U	21	6.0
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	31	4.8
101-55-3	4-Bromophenyl phenyl ether	2.6	U	10	2.6
1912-24-9	Atrazine	3.1	U	10	3.1
120-12-7	Anthracene	2.9	U	10	2.9
86-74-8	Carbazole	3.3	U	10	3.3
85-01-8	Phenanthrene	3.2	U	10	3.2
87-86-5	Pentachlorophenol	5.5	U	31	5.5
129-00-0	Pyrene	3.0	U	10	3.0
218-01-9	Chrysene	3.2	U	10	3.2
207-08-9	Benzo[k]fluoranthene	0.27	U	1.0	0.27
191-24-2	Benzo[g,h,i]perylene	2.1	U	10	2.1
205-99-2	Benzo[b]fluoranthene	0.27	U	1.0	0.27
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.28	U	1.0	0.28
86-30-6	N-Nitrosodiphenylamine	3.0	U	10	3.0
85-68-7	Butyl benzyl phthalate	2.6	U	10	2.6
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	U	10	2.1
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.093	U	1.0	0.093
91-94-1	3,3'-Dichlorobenzidine	5.1	U	21	5.1
95-94-3	1,2,4,5-Tetrachlorobenzene	2.7	U	10	2.7
58-90-2	2,3,4,6-Tetrachlorophenol	2.6	U	10	2.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: z18268.d

Analysis Method: 8270C | Date Collected: 02/04/2013 13:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		56-112
4165-62-2	Phenol-d5	36		10-48
1718-51-0	Terphenyl-d14	95		50-122
118-79-6	2,4,6-Tribromophenol	96		46-122
367-12-4	2-Fluorophenol	55		10-65
321-60-8	2-Fluorobiphenyl	92		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11B | Lab Sample ID: 460-50461-3

Matrix: Water | Lab File ID: z18268.d

Analysis Method: 8270C | Date Collected: 02/04/2013 13:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

Number TICs Found: 7 | TIC Result Total: 127.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q
503-74-2	Butanoic acid, 3-methyl-	2.91	10	J N
100-41-4	Ethylbenzene	3.14	8.9	J N
104-76-7	1-Hexanol, 2-ethyl-	4.55	9.0	J N
496-11-7	Indane	4.68	62	J N
103-82-2	Benzeneacetic acid	6.06	12	J N
	Unknown-1	10.40	13	J
	Unknown-2	11.17	13	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: z18358.d

Analysis Method: 8270C | Date Collected: 02/04/2013 14:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 12:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	3.1	J	21	1.7
95-57-8	2-Chlorophenol	4.5	U	21	4.5
95-48-7	2-Methylphenol	3.7	U	21	3.7
106-44-5	4-Methylphenol	3.3	U	21	3.3
100-52-7	Benzaldehyde	4.1	UJ	21	4.1
98-86-2	Acetophenone	5.6	U	21	5.6
111-44-4	Bis(2-chloroethyl)ether	0.58	U	2.1	0.58
108-60-1	2,2'-oxybis[1-chloropropane]	4.1	UJ	21	4.1
621-64-7	N-Nitrosodi-n-propylamine	0.52	U	2.1	0.52
98-95-3	Nitrobenzene	0.62	U	2.1	0.62
67-72-1	Hexachloroethane	0.52	U	2.1	0.52
78-59-1	Isophorone	5.6	U	21	5.6
88-75-5	2-Nitrophenol	4.9	U	21	4.9
105-67-9	2,4-Dimethylphenol	7.0	U	21	7.0
120-83-2	2,4-Dichlorophenol	5.4	U	21	5.4
111-91-1	Bis(2-chloroethoxy)methane	5.4	U	21	5.4
91-20-3	Naphthalene	390		21	5.6
106-47-8	4-Chloroaniline	4.1	U	21	4.1
87-68-3	Hexachlorobutadiene	1.2	U	4.1	1.2
105-60-2	Caprolactam	5.2	U	21	5.2
59-50-7	4-Chloro-3-methylphenol	5.2	U	21	5.2
91-57-6	2-Methylnaphthalene	6.2	U	21	6.2
118-74-1	Hexachlorobenzene	0.60	U	2.1	0.60
77-47-4	Hexachlorocyclopentadiene	3.5	U	21	3.5
88-06-2	2,4,6-Trichlorophenol	4.9	U	21	4.9
95-95-4	2,4,5-Trichlorophenol	5.4	U	21	5.4
92-52-4	Diphenyl	5.8	U	21	5.8
91-58-7	2-Chloronaphthalene	5.6	U	21	5.6
88-74-4	2-Nitroaniline	10	UJ	41	10
606-20-2	2,6-Dinitrotoluene	1.3	U	4.1	1.3
131-11-3	Dimethyl phthalate	5.8	U	21	5.8
208-96-8	Acenaphthylene	10	J	21	5.6
99-09-2	3-Nitroaniline	10	U	41	10
83-32-9	Acenaphthene	16	J	21	5.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: z18358.d

Analysis Method: 8270C | Date Collected: 02/04/2013 14:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 12:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	14	UJ	62	14
51-28-5	2,4-Dinitrophenol	11	U	62	11
132-64-9	Dibenzofuran	5.8	U	21	5.8
84-66-2	Diethyl phthalate	6.0	U	21	6.0
86-73-7	Fluorene	5.8	U	21	5.8
206-44-0	Fluoranthene	6.6	U	21	6.6
84-74-2	Di-n-butyl phthalate	6.0	U	21	6.0
121-14-2	2,4-Dinitrotoluene	0.97	U	4.1	0.97
7005-72-3	4-Chlorophenyl phenyl ether	5.2	U	21	5.2
100-01-6	4-Nitroaniline	12	U	41	12
534-52-1	4,6-Dinitro-2-methylphenol	9.7	U	62	9.7
101-55-3	4-Bromophenyl phenyl ether	5.2	U	21	5.2
1912-24-9	Atrazine	6.2	U	21	6.2
120-12-7	Anthracene	5.8	U	21	5.8
86-74-8	Carbazole	6.6	U	21	6.6
85-01-8	Phenanthrene	6.4	U	21	6.4
87-86-5	Pentachlorophenol	11	U	62	11
129-00-0	Pyrene	6.0	U	21	6.0
218-01-9	Chrysene	6.4	U	21	6.4
207-08-9	Benzo[k]fluoranthene	0.54	U	2.1	0.54
191-24-2	Benzo[g,h,i]perylene	4.1	U	21	4.1
205-99-2	Benzo[b]fluoranthene	0.54	U	2.1	0.54
50-32-8	Benzo[a]pyrene	0.29	U	2.1	0.29
56-55-3	Benzo[a]anthracene	0.56	U	2.1	0.56
86-30-6	N-Nitrosodiphenylamine	6.0	U	21	6.0
85-68-7	Butyl benzyl phthalate	5.2	U	21	5.2
117-81-7	Bis(2-ethylhexyl) phthalate	5.8	J	21	4.1
117-84-0	Di-n-octyl phthalate	3.1	U	21	3.1
193-39-5	Indeno[1,2,3-cd]pyrene	0.31	U	2.1	0.31
53-70-3	Dibenz(a,h)anthracene	0.19	U	2.1	0.19
91-94-1	3,3'-Dichlorobenzidine	10	U	41	10
95-94-3	1,2,4,5-Tetrachlorobenzene	5.4	U	21	5.4
58-90-2	2,3,4,6-Tetrachlorophenol	5.2	U	21	5.2

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: z18358.d

Analysis Method: 8270C | Date Collected: 02/04/2013 14:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 12:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147327 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		56-112
4165-62-2	Phenol-d5	45		10-48
1718-51-0	Terphenyl-d14	119		50-122
118-79-6	2,4,6-Tribromophenol	79		46-122
367-12-4	2-Fluorophenol	56		10-65
321-60-8	2-Fluorobiphenyl	105		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-11C | Lab Sample ID: 460-50461-4

Matrix: Water | Lab File ID: z18358.d

Analysis Method: 8270C | Date Collected: 02/04/2013 14:50

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/14/2013 12:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 2

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147327 | Units: ug/L

Number TICs Found: 13 | TIC Result Total: 493

CAS NO.	COMPOUND NAME	RT	RESULT	Q
100-41-4	Ethylbenzene	3.06	89	J N
	Xylene isomer	3.36	33	J
111-76-2	Ethanol, 2-butoxy-	3.42	18	J N
	Trimethylbenzene isomer-1	4.26	35	J
	Trimethylbenzene isomer-2	4.48	32	J
496-11-7	Indane	4.60	28	J N
95-13-6	Indene	4.68	49	J N
	C10H10 Aromatic-1	5.46	32	J
	C10H10 Aromatic-2	5.48	34	J
95-15-8	Benzo[b]thiophene	5.77	28	J N
90-12-0	1-Methylnaphthalene	6.52	78	
	Unknown	6.94	20	J
	Unknown-2	10.32	17	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Matrix: Water | Lab File ID: z18270.d

Analysis Method: 8270C | Date Collected: 02/04/2013 00:00

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 22:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.84	U	10	0.84
95-57-8	2-Chlorophenol	2.3	U	10	2.3
95-48-7	2-Methylphenol	1.9	U	10	1.9
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.1	UJ	10	2.1
98-86-2	Acetophenone	2.8	U	10	2.8
111-44-4	Bis(2-chloroethyl)ether	0.29	U	1.0	0.29
108-60-1	2,2'-oxybis[1-chloropropane]	2.1	U	10	2.1
621-64-7	N-Nitrosodi-n-propylamine	0.26	U	1.0	0.26
98-95-3	Nitrobenzene	0.31	U	1.0	0.31
67-72-1	Hexachloroethane	0.26	U	1.0	0.26
78-59-1	Isophorone	2.8	U	10	2.8
88-75-5	2-Nitrophenol	2.5	U	10	2.5
105-67-9	2,4-Dimethylphenol	3.5	U	10	3.5
120-83-2	2,4-Dichlorophenol	2.7	U	10	2.7
111-91-1	Bis(2-chloroethoxy)methane	2.7	U	10	2.7
91-20-3	Naphthalene	2.8	U	10	2.8
106-47-8	4-Chloroaniline	2.1	U	10	2.1
87-68-3	Hexachlorobutadiene	0.59	U	2.1	0.59
105-60-2	Caprolactam	2.6	U	10	2.6
59-50-7	4-Chloro-3-methylphenol	2.6	U	10	2.6
91-57-6	2-Methylnaphthalene	3.1	U	10	3.1
118-74-1	Hexachlorobenzene	0.30	U	1.0	0.30
77-47-4	Hexachlorocyclopentadiene	1.8	U	10	1.8
88-06-2	2,4,6-Trichlorophenol	2.5	U	10	2.5
95-95-4	2,4,5-Trichlorophenol	2.7	U	10	2.7
92-52-4	Diphenyl	2.9	U	10	2.9
91-58-7	2-Chloronaphthalene	2.8	U	10	2.8
88-74-4	2-Nitroaniline	5.1	U	21	5.1
606-20-2	2,6-Dinitrotoluene	0.63	U	2.1	0.63
131-11-3	Dimethyl phthalate	2.9	U	10	2.9
208-96-8	Acenaphthylene	2.8	U	10	2.8
99-09-2	3-Nitroaniline	5.2	U	21	5.2
83-32-9	Acenaphthene	2.8	U	10	2.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Matrix: Water | Lab File ID: z18270.d

Analysis Method: 8270C | Date Collected: 02/04/2013 00:00

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 22:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.9	U	31	6.9
51-28-5	2,4-Dinitrophenol	5.6	U	31	5.6
132-64-9	Dibenzofuran	2.9	U	10	2.9
84-66-2	Diethyl phthalate	3.0	U	10	3.0
86-73-7	Fluorene	2.9	U	10	2.9
206-44-0	Fluoranthene	3.3	U	10	3.3
84-74-2	Di-n-butyl phthalate	3.0	U	10	3.0
121-14-2	2,4-Dinitrotoluene	0.48	U	2.1	0.48
7005-72-3	4-Chlorophenyl phenyl ether	2.6	U	10	2.6
100-01-6	4-Nitroaniline	6.0	UJ	21	6.0
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	31	4.8
101-55-3	4-Bromophenyl phenyl ether	2.6	U	10	2.6
1912-24-9	Atrazine	3.1	U	10	3.1
120-12-7	Anthracene	2.9	U	10	2.9
86-74-8	Carbazole	3.3	U	10	3.3
85-01-8	Phenanthrene	3.2	U	10	3.2
87-86-5	Pentachlorophenol	5.5	U	31	5.5
129-00-0	Pyrene	3.0	U	10	3.0
218-01-9	Chrysene	3.2	U	10	3.2
207-08-9	Benzo[k]fluoranthene	0.27	U	1.0	0.27
191-24-2	Benzo[g,h,i]perylene	2.1	U	10	2.1
205-99-2	Benzo[b]fluoranthene	0.27	U	1.0	0.27
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.28	U	1.0	0.28
86-30-6	N-Nitrosodiphenylamine	3.0	U	10	3.0
85-68-7	Butyl benzyl phthalate	2.6	U	10	2.6
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	U	10	2.1
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.093	U	1.0	0.093
91-94-1	3,3'-Dichlorobenzidine	5.1	U	21	5.1
95-94-3	1,2,4,5-Tetrachlorobenzene	2.7	U	10	2.7
58-90-2	2,3,4,6-Tetrachlorophenol	2.6	U	10	2.6

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Matrix: Water | Lab File ID: z18270.d

Analysis Method: 8270C | Date Collected: 02/04/2013 00:00

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 22:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		56-112
4165-62-2	Phenol-d5	30		10-48
1718-51-0	Terphenyl-d14	92		50-122
118-79-6	2,4,6-Tribromophenol	95		46-122
367-12-4	2-Fluorophenol	47		10-65
321-60-8	2-Fluorobiphenyl	81		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Matrix: Water | Lab File ID: z18270.d

Analysis Method: 8270C | Date Collected: 02/04/2013 00:00

Extract. Method: 3510C | Date Extracted: 02/07/2013 22:54

Sample wt/vol: 970(mL) | Date Analyzed: 02/12/2013 22:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147121 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 8.7

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	6.91	8.7	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: x34165.d

Analysis Method: 8270C | Date Collected: 02/05/2013 09:45

Extract. Method: 3510C | Date Extracted: 02/10/2013 11:21

Sample wt/vol: 970(mL) | Date Analyzed: 02/13/2013 19:07

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.84	U	10	0.84
95-57-8	2-Chlorophenol	2.3	U	10	2.3
95-48-7	2-Methylphenol	1.9	U	10	1.9
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.1	UJ	10	2.1
98-86-2	Acetophenone	2.8	U	10	2.8
111-44-4	Bis(2-chloroethyl)ether	0.29	U	1.0	0.29
108-60-1	2,2'-oxybis[1-chloropropane]	2.1	U	10	2.1
621-64-7	N-Nitrosodi-n-propylamine	0.26	U	1.0	0.26
98-95-3	Nitrobenzene	0.31	U	1.0	0.31
67-72-1	Hexachloroethane	0.26	U	1.0	0.26
78-59-1	Isophorone	2.8	U	10	2.8
88-75-5	2-Nitrophenol	2.5	U	10	2.5
105-67-9	2,4-Dimethylphenol	3.5	U	10	3.5
120-83-2	2,4-Dichlorophenol	2.7	U	10	2.7
111-91-1	Bis(2-chloroethoxy)methane	2.7	U	10	2.7
91-20-3	Naphthalene	2.8	U	10	2.8
106-47-8	4-Chloroaniline	2.1	U	10	2.1
87-68-3	Hexachlorobutadiene	0.59	U	2.1	0.59
105-60-2	Caprolactam	2.6	U	10	2.6
59-50-7	4-Chloro-3-methylphenol	2.6	U	10	2.6
91-57-6	2-Methylnaphthalene	3.1	U	10	3.1
118-74-1	Hexachlorobenzene	0.30	U	1.0	0.30
77-47-4	Hexachlorocyclopentadiene	1.8	U	10	1.8
88-06-2	2,4,6-Trichlorophenol	2.5	U	10	2.5
95-95-4	2,4,5-Trichlorophenol	2.7	U	10	2.7
92-52-4	Diphenyl	2.9	U	10	2.9
91-58-7	2-Chloronaphthalene	2.8	U	10	2.8
88-74-4	2-Nitroaniline	5.1	U	21	5.1
606-20-2	2,6-Dinitrotoluene	0.63	U	2.1	0.63
131-11-3	Dimethyl phthalate	2.9	U	10	2.9
208-96-8	Acenaphthylene	2.8	U	10	2.8
99-09-2	3-Nitroaniline	5.2	U	21	5.2
83-32-9	Acenaphthene	2.8	U	10	2.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: x34165.d

Analysis Method: 8270C | Date Collected: 02/05/2013 09:45

Extract. Method: 3510C | Date Extracted: 02/10/2013 11:21

Sample wt/vol: 970(mL) | Date Analyzed: 02/13/2013 19:07

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147230 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.9	U	31	6.9
51-28-5	2,4-Dinitrophenol	5.6	U	31	5.6
132-64-9	Dibenzofuran	2.9	U	10	2.9
84-66-2	Diethyl phthalate	3.0	U	10	3.0
86-73-7	Fluorene	2.9	U	10	2.9
206-44-0	Fluoranthene	3.3	U	10	3.3
84-74-2	Di-n-butyl phthalate	3.0	U	10	3.0
121-14-2	2,4-Dinitrotoluene	0.48	U	2.1	0.48
7005-72-3	4-Chlorophenyl phenyl ether	2.6	U	10	2.6
100-01-6	4-Nitroaniline	6.0	U	21	6.0
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	31	4.8
101-55-3	4-Bromophenyl phenyl ether	2.6	U	10	2.6
1912-24-9	Atrazine	3.1	U	10	3.1
120-12-7	Anthracene	2.9	U	10	2.9
86-74-8	Carbazole	3.3	U	10	3.3
85-01-8	Phenanthrene	3.2	U	10	3.2
87-86-5	Pentachlorophenol	5.5	U	31	5.5
129-00-0	Pyrene	3.0	U	10	3.0
218-01-9	Chrysene	3.2	U	10	3.2
207-08-9	Benzo[k]fluoranthene	0.27	U	1.0	0.27
191-24-2	Benzo[g,h,i]perylene	2.1	U	10	2.1
205-99-2	Benzo[b]fluoranthene	0.27	U	1.0	0.27
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.28	U	1.0	0.28
86-30-6	N-Nitrosodiphenylamine	3.0	U	10	3.0
85-68-7	Butyl benzyl phthalate	2.6	U	10	2.6
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	U	10	2.1
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.093	U	1.0	0.093
91-94-1	3,3'-Dichlorobenzidine	5.1	UJ	21	5.1
95-94-3	1,2,4,5-Tetrachlorobenzene	2.7	U	10	2.7
58-90-2	2,3,4,6-Tetrachlorophenol	2.6	U	10	2.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: x34165.d

Analysis Method: 8270C | Date Collected: 02/05/2013 09:45

Extract. Method: 3510C | Date Extracted: 02/10/2013 11:21

Sample wt/vol: 970(mL) | Date Analyzed: 02/13/2013 19:07

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147230 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		56-112
4165-62-2	Phenol-d5	35		10-48
1718-51-0	Terphenyl-d14	93		50-122
118-79-6	2,4,6-Tribromophenol	92		46-122
367-12-4	2-Fluorophenol	53		10-65
321-60-8	2-Fluorobiphenyl	87		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-10C | Lab Sample ID: 460-50466-1

Matrix: Water | Lab File ID: x34165.d

Analysis Method: 8270C | Date Collected: 02/05/2013 09:45

Extract. Method: 3510C | Date Extracted: 02/10/2013 11:21

Sample wt/vol: 970(mL) | Date Analyzed: 02/13/2013 19:07

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147230 | Units: ug/L

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C | Lab Sample ID: 460-50516-1

Matrix: Water | Lab File ID: z18450.d

Analysis Method: 8270C | Date Collected: 02/06/2013 06:15

Extract. Method: 3510C | Date Extracted: 02/09/2013 12:52

Sample wt/vol: 970(mL) | Date Analyzed: 02/16/2013 18:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	0.84	U	10	0.84
95-57-8	2-Chlorophenol	2.3	U	10	2.3
95-48-7	2-Methylphenol	1.9	U	10	1.9
106-44-5	4-Methylphenol	1.6	U	10	1.6
100-52-7	Benzaldehyde	2.1	U J	10	2.1
98-86-2	Acetophenone	2.8	U	10	2.8
111-44-4	Bis(2-chloroethyl)ether	0.29	U	1.0	0.29
108-60-1	2,2'-oxybis[1-chloropropane]	2.1	U J	10	2.1
621-64-7	N-Nitrosodi-n-propylamine	0.26	U	1.0	0.26
98-95-3	Nitrobenzene	0.31	U	1.0	0.31
67-72-1	Hexachloroethane	0.26	U	1.0	0.26
78-59-1	Isophorone	2.8	U	10	2.8
88-75-5	2-Nitrophenol	2.5	U	10	2.5
105-67-9	2,4-Dimethylphenol	3.5	U	10	3.5
120-83-2	2,4-Dichlorophenol	2.7	U	10	2.7
111-91-1	Bis(2-chloroethoxy)methane	2.7	U	10	2.7
91-20-3	Naphthalene	2.8	U	10	2.8
106-47-8	4-Chloroaniline	2.1	U	10	2.1
87-68-3	Hexachlorobutadiene	0.59	U	2.1	0.59
105-60-2	Caprolactam	2.6	U	10	2.6
59-50-7	4-Chloro-3-methylphenol	2.6	U	10	2.6
91-57-6	2-Methylnaphthalene	3.1	U	10	3.1
118-74-1	Hexachlorobenzene	0.30	U	1.0	0.30
77-47-4	Hexachlorocyclopentadiene	1.8	U	10	1.8
88-06-2	2,4,6-Trichlorophenol	2.5	U	10	2.5
95-95-4	2,4,5-Trichlorophenol	2.7	U	10	2.7
92-52-4	Diphenyl	2.9	U	10	2.9
91-58-7	2-Chloronaphthalene	2.8	U	10	2.8
88-74-4	2-Nitroaniline	5.1	U	21	5.1
606-20-2	2,6-Dinitrotoluene	0.63	U	2.1	0.63
131-11-3	Dimethyl phthalate	2.9	U	10	2.9
208-96-8	Acenaphthylene	2.8	U	10	2.8
99-09-2	3-Nitroaniline	5.2	U	21	5.2
83-32-9	Acenaphthene	2.8	U	10	2.8

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C | Lab Sample ID: 460-50516-1

Matrix: Water | Lab File ID: z18450.d

Analysis Method: 8270C | Date Collected: 02/06/2013 06:15

Extract. Method: 3510C | Date Extracted: 02/09/2013 12:52

Sample wt/vol: 970(mL) | Date Analyzed: 02/16/2013 18:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147641 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	6.9	U	31	6.9
51-28-5	2,4-Dinitrophenol	5.6	U	31	5.6
132-64-9	Dibenzofuran	2.9	U	10	2.9
84-66-2	Diethyl phthalate	3.0	U	10	3.0
86-73-7	Fluorene	2.9	U	10	2.9
206-44-0	Fluoranthene	3.3	U	10	3.3
84-74-2	Di-n-butyl phthalate	3.0	U	10	3.0
121-14-2	2,4-Dinitrotoluene	0.48	U	2.1	0.48
7005-72-3	4-Chlorophenyl phenyl ether	2.6	U	10	2.6
100-01-6	4-Nitroaniline	6.0	U	21	6.0
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	31	4.8
101-55-3	4-Bromophenyl phenyl ether	2.6	U	10	2.6
1912-24-9	Atrazine	3.1	U	10	3.1
120-12-7	Anthracene	2.9	U	10	2.9
86-74-8	Carbazole	3.3	U	10	3.3
85-01-8	Phenanthrene	3.2	U	10	3.2
87-86-5	Pentachlorophenol	5.5	U	31	5.5
129-00-0	Pyrene	3.0	U	10	3.0
218-01-9	Chrysene	3.2	U	10	3.2
207-08-9	Benzo[k]fluoranthene	0.27	U	1.0	0.27
191-24-2	Benzo[g,h,i]perylene	2.1	U	10	2.1
205-99-2	Benzo[b]fluoranthene	0.27	U	1.0	0.27
50-32-8	Benzo[a]pyrene	0.14	U	1.0	0.14
56-55-3	Benzo[a]anthracene	0.28	U	1.0	0.28
86-30-6	N-Nitrosodiphenylamine	3.0	U	10	3.0
85-68-7	Butyl benzyl phthalate	2.6	U	10	2.6
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	U	10	2.1
117-84-0	Di-n-octyl phthalate	1.5	U	10	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	0.15	U	1.0	0.15
53-70-3	Dibenz(a,h)anthracene	0.093	U	1.0	0.093
91-94-1	3,3'-Dichlorobenzidine	5.1	U	21	5.1
95-94-3	1,2,4,5-Tetrachlorobenzene	2.7	U	10	2.7
58-90-2	2,3,4,6-Tetrachlorophenol	2.6	U	10	2.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C | Lab Sample ID: 460-50516-1

Matrix: Water | Lab File ID: z18450.d

Analysis Method: 8270C | Date Collected: 02/06/2013 06:15

Extract. Method: 3510C | Date Extracted: 02/09/2013 12:52

Sample wt/vol: 970(mL) | Date Analyzed: 02/16/2013 18:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147641 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		56-112
4165-62-2	Phenol-d5	31		10-48
1718-51-0	Terphenyl-d14	96		50-122
118-79-6	2,4,6-Tribromophenol	91		46-122
367-12-4	2-Fluorophenol	43		10-65
321-60-8	2-Fluorobiphenyl	81		53-108

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG No.:

Client Sample ID: MW-9C | Lab Sample ID: 460-50516-1

Matrix: Water | Lab File ID: z18450.d

Analysis Method: 8270C | Date Collected: 02/06/2013 06:15

Extract. Method: 3510C | Date Extracted: 02/09/2013 12:52

Sample wt/vol: 970(mL) | Date Analyzed: 02/16/2013 18:30

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 147641 | Units: ug/L

Number TICs Found: 1 | TIC Result Total: 35

CAS NO.	COMPOUND NAME	RT	RESULT	Q
127-18-4	Tetrachloroethylene	2.70	35	J N

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-12B
Lab Sample ID: 460-50461-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 11:40
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	357	200	5.9	ug/L			1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-12C
Lab Sample ID: 460-50461-2
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 12:40
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.3	5.0	3.7	ug/L			1	6010B
7440-39-3	Barium	16.7	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-11B
Lab Sample ID: 460-50461-3
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 13:50
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.2	5.0	3.7	ug/L			1	6010B
7440-39-3	Barium	1160	200	5.9	ug/L			1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-11C
Lab Sample ID: 460-50461-4
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 14:50
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.8	5.0	3.7	ug/L			1	6010B
7440-39-3	Barium	109	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUPE 2-4 Lab Sample ID: 460-50461-5

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG ID.:

Matrix: Water Date Sampled: 02/04/2013 00:00

Reporting Basis: WET Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	362	200	5.9	ug/L			1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	U		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-10C
Lab Sample ID: 460-50466-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/05/2013 09:45
Reporting Basis: WET
Date Received: 02/06/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	165	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	1.3	10.0	1.3	ug/L	J		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-9C
Lab Sample ID: 460-50516-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/06/2013 06:15
Reporting Basis: WET
Date Received: 02/06/2013 16:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.7	5.0	3.7	ug/L	U		1	6010B
7440-39-3	Barium	48.2	200	5.9	ug/L	J		1	6010B
7440-43-9	Cadmium	0.82	5.0	0.82	ug/L	U		1	6010B
7440-47-3	Chromium	4.5	10.0	4.5	ug/L	U		1	6010B
7439-92-1	Lead	4.0	5.0	4.0	ug/L	U		1	6010B
7782-49-2	Selenium	5.8	10.0	5.8	ug/L	U		1	6010B
7440-22-4	Silver	5.7	10.0	1.3	ug/L	J		1	6010B
7439-97-6	Mercury	0.16	0.20	0.16	ug/L	U		1	7470A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-12B
Lab Sample ID: 460-50461-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 11:40
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.023	J 0.010	0.0040	mg/L			1	9012A

MS, RPD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-12C
Lab Sample ID: 460-50461-2
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 12:40
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0074	0.010	0.0040	mg/L	J		1	9012A

BRL, MS, RPD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-11B
Lab Sample ID: 460-50461-3
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 13:50
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.045	J 0.010	0.0040	mg/L			1	9012A

MS, RPD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-11C
Lab Sample ID: 460-50461-4
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/04/2013 14:50
Reporting Basis: WET
Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0040	0.010	0.0040	mg/L	UJ		1	9012A

MS, RPD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUPE 2-4 | Lab Sample ID: 460-50461-5

Lab Name: TestAmerica Edison | Job No.: 460-50461-1

SDG ID.:

Matrix: Water | Date Sampled: 02/04/2013 00:00

Reporting Basis: WET | Date Received: 02/07/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.026	J 0.010	0.0040	mg/L			1	9012A

ms, RPD

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-10C
Lab Sample ID: 460-50466-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/05/2013 09:45
Reporting Basis: WET
Date Received: 02/06/2013 15:36

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0065	0.010	0.0040	mg/L	J		1	9012A

BRL, RPD, MS

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-9C
Lab Sample ID: 460-50516-1
Lab Name: TestAmerica Edison
Job No.: 460-50461-1
SDG ID.:
Matrix: Water
Date Sampled: 02/06/2013 06:15
Reporting Basis: WET
Date Received: 02/06/2013 16:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0060	0.010	0.0040	mg/L	J		1	9012A

BRL, MS

Appendix C

Support Documentation

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S.WRIGHT	Site/Project Identification NATIONAL GRID - EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☒	
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-798-8549 Fax		

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs 8260	SVOCs 8270	TOTAL RCRA 8	TOTAL CYANIDE	Sample Numbers
MW-12B	2-4-13	1140	GW	7	X	X	X	X	1
MW-12C	2-4-13	1240	GW	7	X	X	X	X	2
MW-11B	2-4-13	1350	GW	7	X	X	X	X	3
MW-11C	2-4-13	1450	GW	7	X	X	X	X	4
DUPE 2-4	2-4-13	—	GW	7	X	X	X	X	5

LAB USE ONLY
Project No:
Job No: 50461

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

	VOCs 8260	SVOCs 8270	TOTAL RCRA 8	TOTAL CYANIDE
Soil:				
Water:	2	1	4	5

Special Instructions EDD FORMAT TO COLLEEN.SCOTT@AECOM.COM Water Metals Filtered (Yes/No)? NO

	Company	Date / Time	Received by	Company
Relinquished by 1)	AECOM	2-4-13 15:07	1)	TAL
Relinquished by 2) RALPH MASTRO	Company TAL-NJC	Date / Time 2/5/13 15:30	Received by 2)	Company TAL
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 2.0/3.1 2.0/3.1 2.0/3.1 JRF 4 NOCs

02/19/2013

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TestAmerica Edison Receipt Temperature and pH Log

Page ____ of ____

02/19/2013

Job Number: 50461

Number of Coolers: 3 IR Gun # 7

Temp. Cooler #1 (Deg C) (Raw/Corrected) 2/3.1 Temp. Cooler #4 (Deg C) (Raw/Corrected) _____ Temp. Cooler #7 (Deg C) (Raw/Corrected) _____

Temp. Cooler #2 (Deg C) (Raw/Corrected) 2/3.1 Temp. Cooler #5 (Deg C) (Raw/Corrected) _____ Temp. Cooler #8 (Deg C) (Raw/Corrected) _____

Temp. Cooler #3 (Deg C) (Raw/Corrected) 2/3.1 Temp. Cooler #6 (Deg C) (Raw/Corrected) _____ Temp. Cooler #9 (Deg C) (Raw/Corrected) _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other
1				LZ							712		
2				LZ							712		
3				LZ							712		
4				LZ							712		
5				LZ							712		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 3, 10/8/12

Initials: _____ Date: 2/7/13

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777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S. WRIGHT	Site/Project Identification NATIONAL GRID-EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☒	LAB USE ONLY Project No:
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	Job No: 50466
Phone 212-798-8549 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	VOCs 8260	SVOCs 8270	TOTAL RCRA 8	TOTAL CYANIDE								Sample Numbers
MW-10C	2-5-13	0945	GW	7	X	X	X	X								1
MW-10C MS	2-5-13	0945	GW	7	X	X	X	X								1
MW-10C MSD	2-5-13	0945	GW	7	X	X	X	X								1
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:												
6 = Other _____, 7 = Other _____				Water:	2	1	4	5								

Special Instructions EDD FORMAT TO COLLEEN.SCOTT@AECOM.COM

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
[signature]	AECOM	2/5/13 9:50	1) [signature]	TA [signature]
2) RAFAEL MAYOR	T.A. N.Y.C	2/5/13 15:36	2) [signature]	TA Ed
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 2013.1 IR #4 NOC

02/19/2013

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 50466

Number of Coolers: 1 IR Gun # 4

Temp. Cooler #1 (Deg C) (Raw/Corrected) 2/3.1 Temp. Cooler #4 (Deg C) (Raw/Corrected) _____ Temp. Cooler #7 (Deg C) (Raw/Corrected) _____

Temp. Cooler #2 (Deg C) (Raw/Corrected) _____ Temp. Cooler #5 (Deg C) (Raw/Corrected) _____ Temp. Cooler #8 (Deg C) (Raw/Corrected) _____

Temp. Cooler #3 (Deg C) (Raw/Corrected) _____ Temp. Cooler #6 (Deg C) (Raw/Corrected) _____ Temp. Cooler #9 (Deg C) (Raw/Corrected) _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other
1				<2							7/2		

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 3, 10/8/12

Initials: A Hall Date: 2/7/13

02/19/2013

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777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S. WRIGHT	Site/Project Identification NATIONAL GRID - EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE	Analysis Turnaround Time Standard ☒	LAB USE ONLY Project No:
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	Job No: 50516
Phone 212-798-8549 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	VOCs 8260	SVOCs 8270	TOTAL RCRA 8	TOTAL CYANIDE	Sample Numbers
MW-9C	2-6-13	0615	GW	7	X	X	X	X	—

5-Day RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

	VOCs 8260	SVOCs 8270	TOTAL RCRA 8	TOTAL CYANIDE
Soil:				
Water:	2	1	4	5

Special Instructions EDD FORMAT TO COLLEEN.SCOTT@AECOM.COM

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
[signature]	AECOM	2-6-13 9:52	1) [signature]	TANYK
2) Radi Mastov	T.H. N.E.	2/6/13 16:25	2) [signature]	[illegible]
3)			3)	2/6/2013 16:4
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 2.0/3.1 IR#4 NOCs

02/19/2013 Page 2006 of 2010

Job Number: 50516

TestAmerica Edison Receipt Temperature and pH Log

Number of Coolers:	1	IR Gun #:	7		
Temp. Cooler #1 (Deg C) (Raw/Corrected)	2.2/3.6	Temp. Cooler #4 (Deg C) (Raw/Corrected)		Temp. Cooler #7 (Deg C) (Raw/Corrected)	
Temp. Cooler #2 (Deg C) (Raw/Corrected)		Temp. Cooler #5 (Deg C) (Raw/Corrected)		Temp. Cooler #8 (Deg C) (Raw/Corrected)	
Temp. Cooler #3 (Deg C) (Raw/Corrected)		Temp. Cooler #6 (Deg C) (Raw/Corrected)		Temp. Cooler #9 (Deg C) (Raw/Corrected)	

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other
1				<2							>12		

If pH adjustments are required record the information below:

Sample No(s). adjusted: N/A

Preservative Name/Conc.: N/A

Volume of Preservative used (ml): N/A

Lot # of Preservative: N/A

Expiration Date: N/A

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: KR

Date: 2/8/13

02/19/2013

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Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-50461-1

Login Number: 50461
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1,3.1,3.1° C IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-50461-1

Login Number: 50466
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1° C IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-50461-1

Login Number: 50516
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1°C, IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-146918/2 Calibration Date: 02/12/2013 05:14

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51869.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2445	0.2628		21.5	20.0	7.5	50.0
Chloromethane	Ave	0.2988	0.2952	0.1000	19.8	20.0	-1.2	50.0
Vinyl chloride	Ave	0.2649	0.2763		20.9	20.0	4.3	20.0
Bromomethane	Ave	0.1242	0.1271		20.5	20.0	2.3	50.0
Chloroethane	Ave	0.1239	0.1454		23.5	20.0	17.3	50.0
Trichlorofluoromethane	Ave	0.3269	0.3935		24.1	20.0	20.4	50.0
Dichlorofluoromethane	Ave	0.4686	0.5549		23.7	20.0	18.4	50.0
n-Pentane	Ave	0.0300	0.0299		40.0	40.0	-0.0	50.0
Ethanol	Ave	0.0018	0.0021		3590	3000	19.5	50.0
Ethyl ether	Ave	0.2098	0.2361		22.5	20.0	12.5	50.0
Isopropene	Ave	0.2212	0.2464		22.3	20.0	11.4	50.0
Acrolein	Ave	0.0406	0.0841		82.9	40.0	107.2*	99.0
Freon TF	Ave	0.1977	0.2287		23.1	20.0	15.7	50.0
1,1-Dichloroethene	Ave	0.2060	0.2366		23.0	20.0	14.9	20.0
Acetone	Ave	0.1972	0.2238		22.7	20.0	13.5	50.0
Iodomethane	Ave	0.5083	0.5757		22.7	20.0	13.3	50.0
Carbon disulfide	Ave	0.7889	0.9429		23.9	20.0	19.5	50.0
Cyclopentene	Ave	0.5932	0.6123		20.6	20.0	3.2	50.0
Methyl acetate	Ave	0.4425	0.4569		20.7	20.0	3.3	50.0
Acetonitrile	Ave	0.0695	0.0742		427	400	6.8	50.0
Methylene Chloride	Ave	0.2963	0.3123		21.1	20.0	5.4	50.0
TBA	Ave	0.0475	0.0456		384	400	-3.9	50.0
MTBE	Ave	0.9032	0.8749		19.4	20.0	-3.1	50.0
trans-1,2-Dichloroethene	Ave	0.2648	0.2654		20.0	20.0	0.2	50.0
Acrylonitrile	Ave	0.1633	0.1868		22.9	20.0	14.4	50.0
Hexane	QuaF	0.2331	0.2544		20.8	20.0	3.9	50.0
1,1-Dichloroethane	Ave	0.5227	0.5360	0.1000	20.5	20.0	2.6	50.0
DIPE	Ave	0.9843	0.9727		19.8	20.0	-1.2	50.0
Vinyl acetate	Ave	0.7849	0.9509		48.5	40.0	21.1	50.0
Tert-butyl ethyl ether	Ave	0.9710	0.8937	0.0100	18.4	20.0	-8.0	50.0
2,2-Dichloropropane	Ave	0.2799	0.2728		19.5	20.0	-2.5	50.0
cis-1,2-Dichloroethene	Ave	0.3188	0.3197		20.1	20.0	0.3	50.0
2-Butanone	Ave	0.0554	0.0539		19.5	20.0	-2.7	50.0
Ethyl acetate	Ave	0.0432	0.0427		39.6	40.0	-1.1	50.0
Tetrahydrofuran	Ave	0.1576	0.1775		22.5	20.0	12.6	50.0
Bromochloromethane	Ave	0.1766	0.1813		20.5	20.0	2.7	50.0
Chloroform	Ave	0.5379	0.5597		20.8	20.0	4.1	20.0
Cyclohexane	Ave	0.4061	0.3865		19.0	20.0	-4.8	50.0
1,1,1-Trichloroethane	Ave	0.3657	0.3693		20.2	20.0	1.0	50.0
Carbon tetrachloride	Ave	0.3449	0.3415		19.8	20.0	-1.0	50.0
1,1-Dichloropropene	Ave	0.3629	0.3620		20.0	20.0	-0.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-146918/2 Calibration Date: 02/12/2013 05:14

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51869.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	1.573	1.728		22.0	20.0	9.8	50.0
Tert-amyl methyl ether	Ave	0.8816	0.8113		18.4	20.0	-8.0	50.0
1,2-Dichloroethane	Ave	0.4749	0.4977		21.0	20.0	4.8	50.0
Isopropyl acetate	Ave	0.9740	0.9617		39.5	40.0	-1.3	50.0
n-Heptane	Ave	0.1976	0.1767		17.9	20.0	-10.6	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.5737	0.5976		41.7	40.0	4.2	50.0
Trichloroethene	Ave	0.3094	0.3096		20.0	20.0	0.0	50.0
n-Butanol	Ave	0.0129	0.0130		1510	1500	0.9	50.0
Methylcyclohexane	Ave	0.4034	0.4196		20.8	20.0	4.0	50.0
Ethyl acrylate	Ave	0.6132	0.5509		18.0	20.0	-10.2	50.0
1,2-Dichloropropane	Ave	0.3313	0.3265		19.7	20.0	-1.4	20.0
Dibromomethane	Ave	0.2425	0.2408		19.9	20.0	-0.7	50.0
1,4-Dioxane	Ave	0.0049	0.0050		155	150	3.7	50.0
Methyl methacrylate	Ave	0.0987	0.0871		17.6	20.0	-11.8	50.0
Propyl acetate	Ave	0.6490	0.6101		18.8	20.0	-6.0	50.0
Bromodichloromethane	Ave	0.4098	0.4083		19.9	20.0	-0.3	50.0
2-Chloroethyl vinyl ether	Ave	0.2114	0.2003		18.9	20.0	-5.3	50.0
Epichlorohydrin	Ave	0.0671	0.0716		427	400	6.7	50.0
cis-1,3-Dichloropropene	Ave	0.7143	0.7381		20.7	20.0	3.3	50.0
4-Methyl-2-pentanone	Ave	0.6667	0.6443		19.3	20.0	-3.4	50.0
Toluene	Ave	1.695	1.768		20.9	20.0	4.3	20.0
trans-1,3-Dichloropropene	Ave	0.6680	0.6438		19.3	20.0	-3.6	50.0
1,1,2-Trichloroethane	Ave	0.3902	0.4020		20.6	20.0	3.0	50.0
Tetrachloroethene	Ave	0.4057	0.4083		20.1	20.0	0.6	50.0
1,3-Dichloropropane	Ave	0.7521	0.7479		19.9	20.0	-0.6	50.0
2-Hexanone	Ave	0.4840	0.4227		17.5	20.0	-12.7	50.0
Butyl acetate	Ave	0.1468	0.1346		36.7	40.0	-8.3	50.0
Dibromochloromethane	Ave	0.4509	0.4362		19.3	20.0	-3.3	50.0
1,2-Dibromoethane	Ave	0.4716	0.4679		19.8	20.0	-0.8	50.0
Chlorobenzene	Ave	1.127	1.076	0.3000	19.1	20.0	-4.5	50.0
Ethylbenzene	Ave	0.5680	0.5304		18.7	20.0	-6.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3834	0.3634		19.0	20.0	-5.2	50.0
m&p-Xylene	Ave	0.6994	0.6637		38.0	40.0	-5.1	50.0
Butyl acrylate	LinF	0.3819	0.3184		13.7	20.0	-31.7	50.0
o-Xylene	Ave	0.6927	0.6532		18.9	20.0	-5.7	50.0
Styrene	Ave	1.177	1.100		18.7	20.0	-6.5	50.0
Amly acetate	LinF	2.144	1.806		14.5	20.0	-27.7	50.0
Bromoform	QuaF	0.2976	0.2681	0.1000	15.9	20.0	-20.3	50.0
Isopropylbenzene	Ave	1.776	1.643		18.5	20.0	-7.5	50.0
Monobromobenzene	Ave	0.9407	0.8620		18.3	20.0	-8.4	50.0
1,1,2,2-Tetrachloroethane	Ave	1.380	1.298	0.3000	18.8	20.0	-6.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-146918/2 Calibration Date: 02/12/2013 05:14

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51869.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.613	4.143		18.0	20.0	-10.2	50.0
1,2,3-Trichloropropane	Ave	0.3763	0.3675		19.5	20.0	-2.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3655	0.3183		17.4	20.0	-12.9	50.0
2-Chlorotoluene	Ave	3.217	2.903		18.0	20.0	-9.8	50.0
1,3,5-Trimethylbenzene	Ave	3.093	2.785		18.0	20.0	-10.0	50.0
4-Chlorotoluene	Ave	2.883	2.685		18.6	20.0	-6.9	50.0
Butyl Methacrylate	LinF	1.107	0.9407		14.5	20.0	-27.3	50.0
tert-Butylbenzene	Ave	2.540	2.211		17.4	20.0	-13.0	50.0
1,2,4-Trimethylbenzene	Ave	3.137	2.799		17.8	20.0	-10.8	50.0
sec-Butylbenzene	Ave	4.021	3.629		18.0	20.0	-9.8	50.0
p-Isopropyltoluene	Ave	3.232	2.815		17.4	20.0	-12.9	50.0
1,3-Dichlorobenzene	Ave	1.773	1.592		18.0	20.0	-10.2	50.0
1,4-Dichlorobenzene	Ave	1.799	1.610		17.9	20.0	-10.5	50.0
Benzyl chloride	Ave	2.241	1.979		17.7	20.0	-11.7	50.0
2,3-Dihydroindene	Ave	1.107	0.9166		16.6	20.0	-17.2	50.0
n-Butylbenzene	Ave	4.084	3.552		17.4	20.0	-13.0	50.0
1,2-Dichlorobenzene	Ave	1.721	1.545		18.0	20.0	-10.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2682	0.2245		16.7	20.0	-16.3	50.0
1,2,4-Trichlorobenzene	Ave	1.191	0.9288		15.6	20.0	-22.0	50.0
Hexachlorobutadiene	Ave	0.4330	0.2908		13.4	20.0	-32.8	50.0
Naphthalene	Ave	3.842	2.838		14.8	20.0	-26.1	50.0
1,2,3-Trichlorobenzene	Ave	1.187	0.8914		15.0	20.0	-24.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2968	0.3253		54.8	50.0	9.6	50.0
Toluene-d8 (Surr)	Ave	1.046	1.123		53.7	50.0	7.4	50.0
Bromofluorobenzene	Ave	0.7615	0.7349		48.3	50.0	-3.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147012/2 Calibration Date: 02/12/2013 18:01

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51900.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2445	0.2525		20.7	20.0	3.3	50.0
Chloromethane	Ave	0.2988	0.3309	0.1000	22.1	20.0	10.7	50.0
Vinyl chloride	Ave	0.2649	0.3115		23.5	20.0	17.6	20.0
Bromomethane	Ave	0.1242	0.1512		24.3	20.0	21.7	50.0
Chloroethane	Ave	0.1239	0.1477		23.8	20.0	19.1	50.0
Trichlorofluoromethane	Ave	0.3269	0.3663		22.4	20.0	12.1	50.0
Dichlorofluoromethane	Ave	0.4686	0.5004		21.4	20.0	6.8	50.0
n-Pentane	Ave	0.0300	0.0252		33.7	40.0	-15.7	50.0
Ethanol	Ave	0.0018	0.0020		3320	3000	10.8	50.0
Ethyl ether	Ave	0.2098	0.2232		21.3	20.0	6.4	50.0
Isopropene	Ave	0.2212	0.2165		19.6	20.0	-2.1	50.0
Acrolein	Ave	0.0406	0.0723		71.3	40.0	78.2	99.0
Freon TF	Ave	0.1977	0.1283		13.0	20.0	-35.1	50.0
1,1-Dichloroethene	Ave	0.2060	0.2252		21.9	20.0	9.3	20.0
Acetone	Ave	0.1972	0.2054		20.8	20.0	4.1	50.0
Iodomethane	Ave	0.5083	0.5218		20.5	20.0	2.7	50.0
Carbon disulfide	Ave	0.7889	0.8642		21.9	20.0	9.5	50.0
Cyclopentene	Ave	0.5932	0.5049		17.0	20.0	-14.9	50.0
Methyl acetate	Ave	0.4425	0.4153		18.8	20.0	-6.1	50.0
Acetonitrile	Ave	0.0695	0.0644		371	400	-7.3	50.0
Methylene Chloride	Ave	0.2963	0.3063		20.7	20.0	3.4	50.0
TBA	Ave	0.0475	0.0416		350	400	-12.4	50.0
MTBE	Ave	0.9032	0.8510		18.8	20.0	-5.8	50.0
trans-1,2-Dichloroethene	Ave	0.2648	0.2554		19.3	20.0	-3.6	50.0
Acrylonitrile	Ave	0.1633	0.1483		18.2	20.0	-9.2	50.0
Hexane	QuaF	0.2331	0.2344		19.1	20.0	-4.3	50.0
1,1-Dichloroethane	Ave	0.5227	0.5322	0.1000	20.4	20.0	1.8	50.0
DIPE	Ave	0.9843	0.9473		19.2	20.0	-3.8	50.0
Vinyl acetate	Ave	0.7849	0.9362		47.7	40.0	19.3	50.0
Tert-butyl ethyl ether	Ave	0.9710	0.8993	0.0100	18.5	20.0	-7.4	50.0
2,2-Dichloropropane	Ave	0.2799	0.2868		20.5	20.0	2.5	50.0
cis-1,2-Dichloroethene	Ave	0.3188	0.3381		21.2	20.0	6.1	50.0
2-Butanone	Ave	0.0554	0.0518		18.7	20.0	-6.4	50.0
Ethyl acetate	Ave	0.0432	0.0395		36.6	40.0	-8.5	50.0
Bromochloromethane	Ave	0.1766	0.1824		20.7	20.0	3.3	50.0
Tetrahydrofuran	Ave	0.1576	0.1630		20.7	20.0	3.5	50.0
Chloroform	Ave	0.5379	0.5632		20.9	20.0	4.7	20.0
Cyclohexane	Ave	0.4061	0.3351		16.5	20.0	-17.5	50.0
1,1,1-Trichloroethane	Ave	0.3657	0.3776		20.7	20.0	3.3	50.0
Carbon tetrachloride	Ave	0.3449	0.3577		20.7	20.0	3.7	50.0
1,1-Dichloropropene	Ave	0.3629	0.3762		20.7	20.0	3.7	50.0

AD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147012/2 Calibration Date: 02/12/2013 18:01

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51900.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	1.573	1.597		20.3	20.0	1.5	50.0
Tert-amyl methyl ether	Ave	0.8816	0.8156		18.5	20.0	-7.5	50.0
1,2-Dichloroethane	Ave	0.4749	0.4952		20.9	20.0	4.3	50.0
Isopropyl acetate	Ave	0.9740	0.9334		38.3	40.0	-4.2	50.0
n-Heptane	Ave	0.1976	0.1661		16.8	20.0	-15.9	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.5737	0.5077		35.4	40.0	-11.5	50.0
Trichloroethene	Ave	0.3094	0.3256		21.0	20.0	5.2	50.0
n-Butanol	Ave	0.0129	0.0121		1410	1500	-6.3	50.0
Methylcyclohexane	Ave	0.4034	0.3787		18.8	20.0	-6.1	50.0
Ethyl acrylate	Ave	0.6132	0.5246		17.1	20.0	-14.4	50.0
1,2-Dichloropropane	Ave	0.3313	0.3329		20.1	20.0	0.5	20.0
1,4-Dioxane	Ave	0.0049	0.0049		151	150	0.6	50.0
Dibromomethane	Ave	0.2425	0.2481		20.5	20.0	2.3	50.0
Methyl methacrylate	Ave	0.0987	0.0855		17.3	20.0	-13.4	50.0
Propyl acetate	Ave	0.6490	0.5861		18.1	20.0	-9.7	50.0
Bromodichloromethane	Ave	0.4098	0.4170		20.4	20.0	1.8	50.0
2-Chloroethyl vinyl ether	Ave	0.2114	0.2120		20.1	20.0	0.3	50.0
Epichlorohydrin	Ave	0.0671	0.0603		360	400	-10.1	50.0
cis-1,3-Dichloropropene	Ave	0.7143	0.7124		19.9	20.0	-0.3	50.0
4-Methyl-2-pentanone	Ave	0.6667	0.5788		17.4	20.0	-13.2	50.0
Toluene	Ave	1.695	1.740		20.5	20.0	2.6	20.0
trans-1,3-Dichloropropene	Ave	0.6680	0.6323		18.9	20.0	-5.3	50.0
1,1,2-Trichloroethane	Ave	0.3902	0.3833		19.6	20.0	-1.8	50.0
Tetrachloroethene	Ave	0.4057	0.4139		20.4	20.0	2.0	50.0
1,3-Dichloropropane	Ave	0.7521	0.7320		19.5	20.0	-2.7	50.0
2-Hexanone	Ave	0.4840	0.3962		16.4	20.0	-18.1	50.0
Butyl acetate	Ave	0.1468	0.1327		36.2	40.0	-9.6	50.0
Dibromochloromethane	Ave	0.4509	0.4341		19.3	20.0	-3.7	50.0
1,2-Dibromoethane	Ave	0.4716	0.4651		19.7	20.0	-1.4	50.0
Chlorobenzene	Ave	1.127	1.117	0.3000	19.8	20.0	-0.9	50.0
Ethylbenzene	Ave	0.5680	0.5490		19.3	20.0	-3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3834	0.3739		19.5	20.0	-2.5	50.0
m&p-Xylene	Ave	0.6994	0.6950		39.8	40.0	-0.6	50.0
Butyl acrylate	LinF	0.3819	0.3289		14.1	20.0	-29.4	50.0
o-Xylene	Ave	0.6927	0.6725		19.4	20.0	-2.9	50.0
Styrene	Ave	1.177	1.143		19.4	20.0	-2.9	50.0
Amly acetate	LinF	2.144	1.889		15.1	20.0	-24.3	50.0
Bromoform	QuaF	0.2976	0.2730	0.1000	16.2	20.0	-18.8	50.0
Isopropylbenzene	Ave	1.776	1.734		19.5	20.0	-2.4	50.0
Monobromobenzene	Ave	0.9407	0.9099		19.3	20.0	-3.3	50.0
1,1,2,2-Tetrachloroethane	Ave	1.380	1.314	0.3000	19.0	20.0	-4.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147012/2 Calibration Date: 02/12/2013 18:01

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51900.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.613	4.476		19.4	20.0	-3.0	50.0
1,2,3-Trichloropropane	Ave	0.3763	0.3641		19.4	20.0	-3.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3655	0.3107		17.0	20.0	-15.0	50.0
2-Chlorotoluene	Ave	3.217	3.056		19.0	20.0	-5.0	50.0
1,3,5-Trimethylbenzene	Ave	3.093	2.986		19.3	20.0	-3.5	50.0
4-Chlorotoluene	Ave	2.883	2.784		19.3	20.0	-3.4	50.0
Butyl Methacrylate	LinF	1.107	0.998		15.4	20.0	-22.8	50.0
tert-Butylbenzene	Ave	2.540	2.415		19.0	20.0	-4.9	50.0
1,2,4-Trimethylbenzene	Ave	3.137	3.043		19.4	20.0	-3.0	50.0
sec-Butylbenzene	Ave	4.021	3.838		19.1	20.0	-4.6	50.0
1,3-Dichlorobenzene	Ave	1.773	1.713		19.3	20.0	-3.4	50.0
p-Isopropyltoluene	Ave	3.232	3.035		18.8	20.0	-6.1	50.0
1,4-Dichlorobenzene	Ave	1.799	1.717		19.1	20.0	-4.6	50.0
Benzyl chloride	Ave	2.241	2.033		18.1	20.0	-9.3	50.0
2,3-Dihydroindene	Ave	1.107	1.012		18.3	20.0	-8.6	50.0
n-Butylbenzene	Ave	4.084	3.689		18.1	20.0	-9.7	50.0
1,2-Dichlorobenzene	Ave	1.721	1.624		18.9	20.0	-5.6	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2682	0.2368		17.7	20.0	-11.7	50.0
1,2,4-Trichlorobenzene	Ave	1.191	1.007		16.9	20.0	-15.4	50.0
Hexachlorobutadiene	Ave	0.4330	0.3102		14.3	20.0	-28.4	50.0
Naphthalene	Ave	3.842	3.143		16.4	20.0	-18.2	50.0
1,2,3-Trichlorobenzene	Ave	1.187	0.9536		16.1	20.0	-19.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2968	0.3114		52.5	50.0	4.9	50.0
Toluene-d8 (Surr)	Ave	1.046	1.060		50.7	50.0	1.3	50.0
Bromofluorobenzene	Ave	0.7615	0.7546		49.6	50.0	-0.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147035/2 Calibration Date: 02/13/2013 03:49

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51924.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Dichlorodifluoromethane	Ave	0.2445	0.2514		20.6	20.0	2.8	50.0	
Chloromethane	Ave	0.2988	0.3003	0.1000	20.1	20.0	0.5	50.0	
Vinyl chloride	Ave	0.2649	0.2754		20.8	20.0	4.0	20.0	
Bromomethane	Ave	0.1242	0.1327		21.4	20.0	6.8	50.0	
Chloroethane	Ave	0.1239	0.1349		21.8	20.0	8.8	50.0	
Dichlorofluoromethane	Ave	0.4686	0.4928		21.0	20.0	5.2	50.0	
n-Pentane	Ave	0.0300	0.0286		38.1	40.0	-4.7	50.0	
Trichlorofluoromethane	Ave	0.3269	0.3537		21.6	20.0	8.2	50.0	
Ethanol	Ave	0.0018	0.0018		3000	3000	0.0	50.0	
Ethyl ether	Ave	0.2098	0.2181		20.8	20.0	3.9	50.0	
Isopropene	Ave	0.2212	0.2000		18.1	20.0	-9.6	50.0	
Acrolein	Ave	0.0406	0.0679		66.9	40.0	67.3	99.0	
Freon TF	Ave	0.1977	0.1759		17.8	20.0	-11.0	50.0	
1,1-Dichloroethene	Ave	0.2060	0.2145		20.8	20.0	4.1	20.0	
Acetone	Ave	0.1972	0.2476		25.1	20.0	25.6	50.0	NS
Iodomethane	Ave	0.5083	0.5489		21.6	20.0	8.0	50.0	
Carbon disulfide	Ave	0.7889	0.8519		21.6	20.0	8.0	50.0	
Cyclopentene	Ave	0.5932	0.6391		21.5	20.0	7.7	50.0	
Methyl acetate	Ave	0.4425	0.4079		18.4	20.0	-7.8	50.0	
Acetonitrile	Ave	0.0695	0.0618		356	400	-11.1	50.0	
Methylene Chloride	Ave	0.2963	0.3036		20.5	20.0	2.5	50.0	
TBA	Ave	0.0475	0.0421		354	400	-11.4	50.0	
MTBE	Ave	0.9032	0.8465		18.7	20.0	-6.3	50.0	
trans-1,2-Dichloroethene	Ave	0.2648	0.2322		17.5	20.0	-12.3	50.0	
Acrylonitrile	Ave	0.1633	0.1532		18.8	20.0	-6.2	50.0	
Hexane	QuaF	0.2331	0.2511		20.5	20.0	2.6	50.0	
1,1-Dichloroethane	Ave	0.5227	0.5155	0.1000	19.7	20.0	-1.4	50.0	
DIPE	Ave	0.9843	0.9255		18.8	20.0	-6.0	50.0	
Vinyl acetate	Ave	0.7849	0.7740		39.4	40.0	-1.4	50.0	
Tert-butyl ethyl ether	Ave	0.9710	0.8783	0.0100	18.1	20.0	-9.5	50.0	
2,2-Dichloropropane	Ave	0.2799	0.2744		19.6	20.0	-1.9	50.0	
cis-1,2-Dichloroethene	Ave	0.3188	0.3188		20.0	20.0	0.0	50.0	
2-Butanone	Ave	0.0554	0.0565		20.4	20.0	2.1	50.0	
Ethyl acetate	Ave	0.0432	0.0394		36.5	40.0	-8.8	50.0	
Bromochloromethane	Ave	0.1766	0.1780		20.2	20.0	0.8	50.0	
Tetrahydrofuran	Ave	0.1576	0.1472		18.7	20.0	-6.6	50.0	
Chloroform	Ave	0.5379	0.5431		20.2	20.0	1.0	20.0	
Cyclohexane	Ave	0.4061	0.3456		17.0	20.0	-14.9	50.0	
1,1,1-Trichloroethane	Ave	0.3657	0.3620		19.8	20.0	-1.0	50.0	
Carbon tetrachloride	Ave	0.3449	0.3418		19.8	20.0	-0.9	50.0	
1,1-Dichloropropene	Ave	0.3629	0.3684		20.3	20.0	1.5	50.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147035/2 Calibration Date: 02/13/2013 03:49

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51924.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	1.573	1.494		19.0	20.0	-5.0	50.0
Tert-amyl methyl ether	Ave	0.8816	0.8045		18.3	20.0	-8.7	50.0
1,2-Dichloroethane	Ave	0.4749	0.4658		19.6	20.0	-1.9	50.0
Isopropyl acetate	Ave	0.9740	0.9099		37.4	40.0	-6.6	50.0
n-Heptane	Ave	0.1976	0.1958		19.8	20.0	-0.9	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.5737	0.5479		38.2	40.0	-4.5	50.0
Trichloroethene	Ave	0.3094	0.3140		20.3	20.0	1.5	50.0
n-Butanol	Ave	0.0129	0.0121		1410	1500	-6.2	50.0
Methylcyclohexane	Ave	0.4034	0.4010		19.9	20.0	-0.6	50.0
Ethyl acrylate	Ave	0.6132	0.5273		17.2	20.0	-14.0	50.0
1,2-Dichloropropane	Ave	0.3313	0.3229		19.5	20.0	-2.5	20.0
1,4-Dioxane	Ave	0.0049	0.0044		136	150	-9.2	50.0
Dibromomethane	Ave	0.2425	0.2426		20.0	20.0	0.0	50.0
Methyl methacrylate	Ave	0.0987	0.0893		18.1	20.0	-9.5	50.0
Propyl acetate	Ave	0.6490	0.5823		17.9	20.0	-10.3	50.0
Bromodichloromethane	Ave	0.4098	0.4042		19.7	20.0	-1.4	50.0
2-Chloroethyl vinyl ether	Ave	0.2114	0.2216		21.0	20.0	4.8	50.0
Epichlorohydrin	Ave	0.0671	0.0594		354	400	-11.5	50.0
cis-1,3-Dichloropropene	Ave	0.7143	0.6601		18.5	20.0	-7.6	50.0
4-Methyl-2-pentanone	Ave	0.6667	0.5644		16.9	20.0	-15.3	50.0
Toluene	Ave	1.695	1.804		21.3	20.0	6.4	20.0
trans-1,3-Dichloropropene	Ave	0.6680	0.6023		18.0	20.0	-9.8	50.0
1,1,2-Trichloroethane	Ave	0.3902	0.3642		18.7	20.0	-6.7	50.0
Tetrachloroethene	Ave	0.4057	0.3970		19.6	20.0	-2.2	50.0
1,3-Dichloropropane	Ave	0.7521	0.7023		18.7	20.0	-6.6	50.0
2-Hexanone	Ave	0.4840	0.4107		17.0	20.0	-15.2	50.0
Butyl acetate	Ave	0.1468	0.1300		35.4	40.0	-11.4	50.0
Dibromochloromethane	Ave	0.4509	0.4199		18.6	20.0	-6.9	50.0
1,2-Dibromoethane	Ave	0.4716	0.4484		19.0	20.0	-4.9	50.0
Chlorobenzene	Ave	1.127	1.074	0.3000	19.1	20.0	-4.7	50.0
Ethylbenzene	Ave	0.5680	0.5377		18.9	20.0	-5.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3834	0.3665		19.1	20.0	-4.4	50.0
m&p-Xylene	Ave	0.6994	0.6656		38.1	40.0	-4.8	50.0
Butyl acrylate	LinF	0.3819	0.3300		14.2	20.0	-29.2	50.0
o-Xylene	Ave	0.6927	0.6445		18.6	20.0	-7.0	50.0
Styrene	Ave	1.177	1.105		18.8	20.0	-6.1	50.0
Amly acetate	LinF	2.144	1.816		14.6	20.0	-27.2	50.0
Bromoform	QuaF	0.2976	0.2704	0.1000	16.1	20.0	-19.6	50.0
Isopropylbenzene	Ave	1.776	1.678		18.9	20.0	-5.6	50.0
Monobromobenzene	Ave	0.9407	0.8621		18.3	20.0	-8.4	50.0
1,1,2,2-Tetrachloroethane	Ave	1.380	1.288	0.3000	18.7	20.0	-6.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147035/2 Calibration Date: 02/13/2013 03:49

Instrument ID: VOAMS2 Calib Start Date: 01/25/2013 02:08

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/25/2013 05:27

Lab File ID: b51924.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.613	4.326		18.8	20.0	-6.2	50.0
1,2,3-Trichloropropane	Ave	0.3763	0.3577		19.0	20.0	-4.9	50.0
trans-1,4-Dichloro-2-butene	Ave	0.3655	0.2583		14.1	20.0	-29.3	50.0
2-Chlorotoluene	Ave	3.217	2.924		18.2	20.0	-9.1	50.0
1,3,5-Trimethylbenzene	Ave	3.093	2.874		18.6	20.0	-7.1	50.0
4-Chlorotoluene	Ave	2.883	2.671		18.5	20.0	-7.4	50.0
Butyl Methacrylate	LinF	1.107	1.000		15.5	20.0	-22.7	50.0
tert-Butylbenzene	Ave	2.540	2.395		18.9	20.0	-5.7	50.0
1,2,4-Trimethylbenzene	Ave	3.137	2.918		18.6	20.0	-7.0	50.0
sec-Butylbenzene	Ave	4.021	3.876		19.3	20.0	-3.6	50.0
1,3-Dichlorobenzene	Ave	1.773	1.652		18.6	20.0	-6.8	50.0
p-Isopropyltoluene	Ave	3.232	3.109		19.2	20.0	-3.8	50.0
1,4-Dichlorobenzene	Ave	1.799	1.665		18.5	20.0	-7.4	50.0
Benzyl chloride	Ave	2.241	2.034		18.2	20.0	-9.2	50.0
2,3-Dihydroindene	Ave	1.107	1.060		19.1	20.0	-4.3	50.0
n-Butylbenzene	Ave	4.084	3.836		18.8	20.0	-6.1	50.0
1,2-Dichlorobenzene	Ave	1.721	1.587		18.4	20.0	-7.8	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.2682	0.2267		16.9	20.0	-15.5	50.0
1,2,4-Trichlorobenzene	Ave	1.191	1.022		17.2	20.0	-14.1	50.0
Hexachlorobutadiene	Ave	0.4330	0.4098		18.9	20.0	-5.4	50.0
Naphthalene	Ave	3.842	3.161		16.5	20.0	-17.7	50.0
1,2,3-Trichlorobenzene	Ave	1.187	0.9881		16.6	20.0	-16.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2968	0.3033		51.1	50.0	2.2	50.0
Toluene-d8 (Surr)	Ave	1.046	1.041		49.7	50.0	-0.5	50.0
Bromofluorobenzene	Ave	0.7615	0.7515		49.3	50.0	-1.3	50.0

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51913.d

Lab ID: 460-50461-4 MS Client ID: MW-11C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	100	0.20 U	109	109	58-146	
Bromomethane	100	0.36 U	110	110	55-153	
Vinyl chloride	100	0.28 U	112	112	61-144	
Chloroethane	100	0.34 U	111	111	69-145	
Methylene Chloride	100	0.36 U	105	105	79-119	
Acetone	100	5.4 U	104	104	45-156	
Carbon disulfide	100	1.9 J	96.5	95	58-139	
Trichlorofluoromethane	100	0.30 U	107	107	69-147	
1,1-Dichloroethene	100	0.18 U	84.3	84	56-139	
1,1-Dichloroethane	100	0.26 U	96.3	96	78-122	
trans-1,2-Dichloroethene	100	120	193	71	75-122	F
cis-1,2-Dichloroethene	100	100	195	90	80-120	
Chloroform	100	18	118	100	82-123	
2-Butanone	100	4.6 U	106	106	65-114	
1,2-Dichloroethane	100	0.38 U	97.9	98	74-118	
1,1,1-Trichloroethane	100	0.12 U	101	101	74-128	
Carbon tetrachloride	100	0.12 U	94.9	95	73-120	
Benzene	100	400	427	26	83-124	4
Bromoform	100	0.38 U	78.1	78	73-123	
Styrene	100	4.9	101	96	69-112	
Ethylbenzene	100	100	189	86	79-126	
Chlorobenzene	100	0.22 U	96.9	97	81-121	
Cyclohexane	100	0.32 U	87.8	88	58-133	
Isopropylbenzene	100	5.6	103	97	80-125	
2-Hexanone	100	1.0 U	92.0	92	53-121	
MTBE	100	0.28 U	95.5	96	71-115	
Freon TF	100	0.16 U	95.6	96	47-139	
Methyl acetate	100	0.68 U	92.5	92	50-151	
1,4-Dioxane	750	72 U	829	111	52-126	
Trichloroethene	100	90	179	89	78-119	
Toluene	100	13	108	95	80-120	
trans-1,3-Dichloropropene	100	0.48 U	79.0	79	78-118	
4-Methyl-2-pentanone	100	2.0 U	93.2	93	53-120	
cis-1,3-Dichloropropene	100	0.36 U	79.8	80	80-120	
1,2-Dichlorobenzene	100	0.42 U	91.4	91	82-122	
1,3-Dichlorobenzene	100	0.28 U	91.4	91	81-126	
1,4-Dichlorobenzene	100	0.46 U	92.8	93	83-123	
1,2,4-Trichlorobenzene	100	0.68 U	85.6	86	66-120	
1,2,3-Trichlorobenzene	100	1.0 U	82.3	82	76-123	
1,2-Dichloropropane	100	0.18 U	98.3	98	80-120	
Methylcyclohexane	100	0.28 U	97.7	98	61-129	
Tetrachloroethene	100	1.8 J	102	100	68-139	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51913.d

Lab ID: 460-50461-4 MS Client ID: MW-11C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Xylenes, Total	300	51	337	95	76-121	
1,2-Dibromo-3-Chloropropane	100	0.80 U	99.0	99	70-116	
1,1,2,2-Tetrachloroethane	100	0.32 U	94.1	94	74-126	
1,1,2-Trichloroethane	100	0.38 U	92.3	92	79-119	
Dibromochloromethane	100	0.40 U	90.2	90	80-120	
1,2-Dibromoethane	100	0.56 U	97.3	97	78-118	
Dichlorodifluoromethane	100	0.44 U	105	105	46-145	
Bromochloromethane	100	0.54 U	98.3	98	80-121	
Bromodichloromethane	100	0.24 U	98.0	98	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51880.d

Lab ID: 460-50466-1 MS Client ID: MW-10C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	20.0	0.10 U	23.6	118	58-146	
Bromomethane	20.0	0.18 U	35.1	176	55-153	F
Vinyl chloride	20.0	0.14 U	25.4	127	61-144	
Chloroethane	20.0	0.17 U	28.5	143	69-145	
Methylene Chloride	20.0	0.18 U	21.9	109	79-119	
Acetone	20.0	2.7 U	22.3	112	45-156	
Carbon disulfide	20.0	0.13 U	19.8	99	58-139	
Trichlorofluoromethane	20.0	0.15 U	26.8	134	69-147	
1,1-Dichloroethene	20.0	0.090 U	22.3	112	56-139	
1,1-Dichloroethane	20.0	0.13 U	21.0	105	78-122	
trans-1,2-Dichloroethene	20.0	0.27 J	20.7	102	75-122	
cis-1,2-Dichloroethene	20.0	2.2	23.1	104	80-120	
Chloroform	20.0	0.12 J	22.1	110	82-123	
2-Butanone	20.0	2.3 U	20.6	103	65-114	
1,2-Dichloroethane	20.0	0.48 J	22.0	107	74-118	
1,1,1-Trichloroethane	20.0	0.060 U	21.5	107	74-128	
Carbon tetrachloride	20.0	0.060 U	20.8	104	73-120	
Benzene	20.0	0.26 J	23.0	113	83-124	
Bromoform	20.0	0.19 U	15.9	80	73-123	
Styrene	20.0	0.12 U	17.7	89	69-112	
Ethylbenzene	20.0	0.10 U	19.0	95	79-126	
Chlorobenzene	20.0	0.11 U	19.6	98	81-121	
Cyclohexane	20.0	0.16 U	18.2	91	58-133	
Isopropylbenzene	20.0	0.080 U	19.0	95	80-125	
2-Hexanone	20.0	0.50 U	18.5	93	53-121	
MTBE	20.0	0.32 J	19.4	95	71-115	
Freon TF	20.0	0.080 U	19.7	98	47-139	
Methyl acetate	20.0	0.34 U	18.4	92	50-151	
1,4-Dioxane	150	36 U	156	104	52-126	
Trichloroethene	20.0	1.9	22.2	101	78-119	
Toluene	20.0	0.15 U	21.3	106	80-120	
trans-1,3-Dichloropropene	20.0	0.24 U	19.0	95	78-118	
4-Methyl-2-pentanone	20.0	0.99 U	20.2	101	53-120	
cis-1,3-Dichloropropene	20.0	0.18 U	19.8	99	80-120	
1,2-Dichlorobenzene	20.0	0.21 U	18.4	92	82-122	
1,3-Dichlorobenzene	20.0	0.14 U	18.0	90	81-126	
1,4-Dichlorobenzene	20.0	0.23 U	18.8	94	83-123	
1,2,4-Trichlorobenzene	20.0	0.34 U	15.7	78	66-120	
1,2,3-Trichlorobenzene	20.0	0.51 U	14.7	74	76-123	F
1,2-Dichloropropane	20.0	0.090 U	20.3	102	80-120	
Methylcyclohexane	20.0	0.14 U	20.7	104	61-129	
Tetrachloroethene	20.0	11	30.5	100	68-139	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51880.d

Lab ID: 460-50466-1 MS Client ID: MW-10C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Xylenes, Total	60.0	0.36 U	57.4	96	76-121	
1,2-Dibromo-3-Chloropropane	20.0	0.40 U	19.3	96	70-116	
1,1,2,2-Tetrachloroethane	20.0	0.16 U	20.4	102	74-126	
1,1,2-Trichloroethane	20.0	0.19 U	20.5	103	79-119	
Dibromochloromethane	20.0	0.20 U	19.6	98	80-120	
1,2-Dibromoethane	20.0	0.28 U	20.3	101	78-118	
Dichlorodifluoromethane	20.0	0.22 U	24.8	124	46-145	
Bromochloromethane	20.0	0.27 U	21.0	105	80-121	
Bromodichloromethane	20.0	0.12 U	20.7	103	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51914.d

Lab ID: 460-50461-4 MSD Client ID: MW-11C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	100	108	108	1	30	58-146	
Bromomethane	100	110	110	0	30	55-153	
Vinyl chloride	100	116	116	3	30	61-144	
Chloroethane	100	111	111	0	30	69-145	
Methylene Chloride	100	106	106	1	30	79-119	
Acetone	100	109	109	5	30	45-156	
Carbon disulfide	100	96.0	94	1	30	58-139	
Trichlorofluoromethane	100	95.2	95	12	30	69-147	
1,1-Dichloroethene	100	104	104	21	30	56-139	
1,1-Dichloroethane	100	95.9	96	0	30	78-122	
trans-1,2-Dichloroethene	100	218	95	12	30	75-122	
cis-1,2-Dichloroethene	100	196	91	1	30	80-120	
Chloroform	100	119	102	1	30	82-123	
2-Butanone	100	106	106	0	30	65-114	
1,2-Dichloroethane	100	98.1	98	0	30	74-118	
1,1,1-Trichloroethane	100	103	103	3	30	74-128	
Carbon tetrachloride	100	93.7	94	1	30	73-120	
Benzene	100	418	17	2	30	83-124	4
Bromoform	100	75.9	76	3	30	73-123	
Styrene	100	101	97	1	30	69-112	
Ethylbenzene	100	185	82	2	30	79-126	
Chlorobenzene	100	96.0	96	1	30	81-121	
Cyclohexane	100	93.9	94	7	30	58-133	
Isopropylbenzene	100	102	97	0	30	80-125	
2-Hexanone	100	89.8	90	2	30	53-121	
MTBE	100	97.9	98	2	30	71-115	
Freon TF	100	75.5	75	24	30	47-139	
Methyl acetate	100	92.4	92	0	30	50-151	
1,4-Dioxane	750	799	107	4	30	52-126	
Trichloroethene	100	184	94	3	30	78-119	
Toluene	100	106	93	2	30	80-120	
trans-1,3-Dichloropropene	100	77.5	77	2	30	78-118	F
4-Methyl-2-pentanone	100	92.3	92	1	30	53-120	
cis-1,3-Dichloropropene	100	78.5	79	2	30	80-120	F
1,2-Dichlorobenzene	100	93.8	94	3	30	82-122	
1,3-Dichlorobenzene	100	93.3	93	2	30	81-126	
1,4-Dichlorobenzene	100	94.4	94	2	30	83-123	
1,2,4-Trichlorobenzene	100	90.1	90	5	30	66-120	
1,2,3-Trichlorobenzene	100	88.3	88	7	30	76-123	
1,2-Dichloropropane	100	98.3	98	0	30	80-120	
Methylcyclohexane	100	101	101	3	30	61-129	
Tetrachloroethene	100	100	98	2	30	68-139	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51914.d

Lab ID: 460-50461-4 MSD Client ID: MW-11C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Xylenes, Total	300	334	94	1	30	76-121	
1,2-Dibromo-3-Chloropropane	100	98.6	99	0	30	70-116	
1,1,2,2-Tetrachloroethane	100	95.4	95	1	30	74-126	
1,1,2-Trichloroethane	100	90.4	90	2	30	79-119	
Dibromochloromethane	100	89.4	89	1	30	80-120	
1,2-Dibromoethane	100	97.4	97	0	30	78-118	
Dichlorodifluoromethane	100	109	109	3	30	46-145	
Bromochloromethane	100	98.7	99	0	30	80-121	
Bromodichloromethane	100	100	100	2	30	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51881.d

Lab ID: 460-50466-1 MSD Client ID: MW-10C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	20.0	22.6	113	5	30	58-146	
Bromomethane	20.0	33.5	168	5	30	55-153	F
Vinyl chloride	20.0	24.4	122	4	30	61-144	
Chloroethane	20.0	27.7	139	3	30	69-145	
Methylene Chloride	20.0	21.4	107	2	30	79-119	
Acetone	20.0	20.4	102	9	30	45-156	
Carbon disulfide	20.0	19.0	95	4	30	58-139	
Trichlorofluoromethane	20.0	26.4	132	1	30	69-147	
1,1-Dichloroethene	20.0	20.1	101	10	30	56-139	
1,1-Dichloroethane	20.0	19.5	98	7	30	78-122	
trans-1,2-Dichloroethene	20.0	21.5	106	3	30	75-122	
cis-1,2-Dichloroethene	20.0	22.1	99	4	30	80-120	
Chloroform	20.0	21.4	107	3	30	82-123	
2-Butanone	20.0	20.1	101	2	30	65-114	
1,2-Dichloroethane	20.0	21.3	104	3	30	74-118	
1,1,1-Trichloroethane	20.0	20.9	104	3	30	74-128	
Carbon tetrachloride	20.0	20.5	103	1	30	73-120	
Benzene	20.0	21.7	107	6	30	83-124	
Bromoform	20.0	15.3	76	4	30	73-123	
Styrene	20.0	17.7	88	0	30	69-112	
Ethylbenzene	20.0	18.4	92	3	30	79-126	
Chlorobenzene	20.0	19.2	96	2	30	81-121	
Cyclohexane	20.0	17.7	89	3	30	58-133	
Isopropylbenzene	20.0	18.5	93	3	30	80-125	
2-Hexanone	20.0	18.5	93	0	30	53-121	
MTBE	20.0	19.2	94	1	30	71-115	
Freon TF	20.0	17.8	89	10	30	47-139	
Methyl acetate	20.0	17.7	88	4	30	50-151	
1,4-Dioxane	150	147	98	6	30	52-126	
Trichloroethene	20.0	21.7	99	2	30	78-119	
Toluene	20.0	20.6	103	3	30	80-120	
trans-1,3-Dichloropropene	20.0	18.8	94	1	30	78-118	
4-Methyl-2-pentanone	20.0	20.1	100	1	30	53-120	
cis-1,3-Dichloropropene	20.0	19.7	98	1	30	80-120	
1,2-Dichlorobenzene	20.0	18.3	91	1	30	82-122	
1,3-Dichlorobenzene	20.0	17.8	89	1	30	81-126	
1,4-Dichlorobenzene	20.0	18.2	91	3	30	83-123	
1,2,4-Trichlorobenzene	20.0	15.7	78	0	30	66-120	
1,2,3-Trichlorobenzene	20.0	14.9	75	1	30	76-123	F
1,2-Dichloropropane	20.0	20.1	100	1	30	80-120	
Methylcyclohexane	20.0	20.2	101	3	30	61-129	
Tetrachloroethene	20.0	29.0	92	5	30	68-139	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: b51881.d

Lab ID: 460-50466-1 MSD Client ID: MW-10C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Xylenes, Total	60.0	56.0	93	2	30	76-121	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	7	30	70-116	
1,1,2,2-Tetrachloroethane	20.0	20.0	100	2	30	74-126	
1,1,2-Trichloroethane	20.0	19.8	99	4	30	79-119	
Dibromochloromethane	20.0	19.0	95	3	30	80-120	
1,2-Dibromoethane	20.0	19.4	97	4	30	78-118	
Dichlorodifluoromethane	20.0	24.1	121	3	30	46-145	
Bromochloromethane	20.0	20.3	101	4	30	80-121	
Bromodichloromethane	20.0	20.1	100	3	30	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-50461-1 Analy Batch No.: 146935

SDG No.:

Instrument ID: BNAMS11 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/11/2013 16:02 Calibration End Date: 02/11/2013 17:54 Calibration ID: 20189

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-146935/7	z18217.d
Level 2	IC 460-146935/6	z18216.d
Level 3	IC 460-146935/5	z18215.d
Level 4	ICIS 460-146935/2	z18212.d
Level 5	IC 460-146935/4	z18214.d
Level 6	IC 460-146935/3	z18213.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.7077 0.6876	0.6966	0.6906	0.6809	0.6807	Ave		0.6907				1.5		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2130	+++++	Ave		0.2130						15.0			
N-Nitrosodimethylamine	0.9899 0.9302	0.9664	0.9451	0.9533	0.9476	Ave		0.9554				2.2		15.0			
Pyridine	1.7587 1.5897	1.7762	1.6993	1.6335	1.6171	Ave		1.6791				4.6		15.0			
Benzaldehyde	1.0816 +++++	1.0105	0.8556	0.5270	0.3512	Ave		0.7652				41.2	*	15.0			
Phenol	1.9398 1.5739	1.7627	1.7197	1.6091	1.5781	Ave		1.6972				8.4		15.0			
Aniline	2.2313 +++++	2.0958	1.9914	1.9975	1.7820	Ave		2.0196				8.1		15.0			
Bis(2-chloroethyl)ether	1.6604 1.6040	1.4861	1.4189	1.4010	1.3986	Ave		1.4948				7.5		15.0			
2-Chlorophenol	1.5784 1.2213	1.4913	1.4916	1.3656	1.2786	Ave		1.4045				9.9		15.0			
Decane	2.1413 1.2982	2.0320	2.0486	1.7080	1.5229	QuaF		0.3670	0.1014						0.9991		0.9900
1,3-Dichlorobenzene	1.7903 1.5133	1.7140	1.6545	1.6135	1.5547	Ave		1.6400				6.2		15.0			
1,4-Dichlorobenzene	1.7638 1.4690	1.6946	1.6462	1.5906	1.5182	Ave		1.6138				6.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-50461-1 Analy Batch No.: 147569

SDG No.:

Instrument ID: BNAMS11 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/15/2013 03:05 Calibration End Date: 02/15/2013 05:36 Calibration ID: 20241

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-147569/7	z18368.d
Level 2	IC 460-147569/6	z18367.d
Level 3	IC 460-147569/5	z18366.d
Level 4	ICIS 460-147569/2	z18363.d
Level 5	IC 460-147569/4	z18365.d
Level 6	IC 460-147569/3	z18364.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.1636	+++++	Ave		0.1636						15.0			
1,4-Dioxane	0.6814 0.6951	0.6972	0.6626	0.6198	0.6630	Ave		0.6698				4.3		15.0			
N-Nitrosodimethylamine	0.9307 0.9539	0.9488	0.9611	0.8676	0.9244	Ave		0.9311				3.7		15.0			
Pyridine	1.6868 1.6531	1.7341	1.6756	1.4370	1.5836	Ave		1.6283				6.5		15.0			
Benzaldehyde	1.1549 +++++	0.9547	0.7743	0.4867	0.2325	Ave		0.7206				51.0	*	15.0			
Phenol	1.8720 1.5514	1.8908	1.8850	1.5584	1.4121	Ave		1.6949				12.5		15.0			
Aniline	2.2624 1.6158	2.1519	2.1709	1.6882	1.8559	Ave		1.9575				14.0		15.0			
Bis(2-chloroethyl)ether	1.6610 1.8176	1.5442	1.5077	1.5027	1.4240	Ave		1.5762				9.0		15.0			
2-Chlorophenol	1.6854 1.2687	1.6638	1.6971	1.4255	1.2775	Ave		1.5030				13.6		15.0			
Decane	1.9782 1.3537	1.9209	1.8256	1.6381	1.4816	Ave		1.6997				14.7		15.0			
1,3-Dichlorobenzene	1.7581 1.6194	1.7441	1.7378	1.6018	1.6144	Ave		1.6793				4.4		15.0			
1,4-Dichlorobenzene	1.7454 1.5899	1.7586	1.7246	1.5694	1.5869	Ave		1.6625				5.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-50461-1 Analy Batch No.: 147230

SDG No.:

Instrument ID: BNAMS5 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/13/2013 15:26 Calibration End Date: 02/13/2013 17:26 Calibration ID: 20223

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-147230/6	x34160.d
Level 2	IC 460-147230/7	x34161.d
Level 3	IC 460-147230/5	x34159.d
Level 4	ICIS 460-147230/2	x34156.d
Level 5	IC 460-147230/4	x34158.d
Level 6	IC 460-147230/3	x34157.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.1341	+++++	Ave		0.1341						15.0			
1,4-Dioxane	1.2896 0.6986	0.6347	0.6453	0.6022	0.6714	Ave		0.6495				5.1		15.0			
N-Nitrosodimethylamine	1.7850 0.8843	0.8876	0.8928	0.8169	0.8775	Ave		0.8753				3.3		15.0			
Pyridine	3.1203 1.5514	1.5578	1.5797	1.4143	1.5220	Ave		1.5309				3.9		15.0			
Benzaldehyde	1.4349 0.1083	0.9571	0.5653	0.3007	0.1756	Ave		0.4707				70.7	*	15.0			
Phenol	3.2391 1.5377	1.6047	1.6971	1.4935	1.4024	Ave		1.5592				6.7		15.0			
Aniline	3.6729 +++++	1.9111	1.8898	1.7155	1.7360	Ave		1.8178				4.9		15.0			
Bis(2-chloroethyl)ether	26.201 1.8346	1.3169	1.3301	1.2520	1.3347	QuaF		0.9060	-0.065						0.9990		0.9900
2-Chlorophenol	2.7894 1.2764	1.4070	1.4955	1.3328	1.2292	Ave		1.3559				7.1		15.0			
Decane	2.7409 1.0369	1.3920	1.3659	1.1472	1.1192	Ave		1.2386				12.5		15.0			
1,3-Dichlorobenzene	3.1743 1.5367	1.5686	1.6608	1.5478	1.5740	Ave		1.5792				2.8		15.0			
1,4-Dichlorobenzene	3.2661 1.4912	1.6285	1.7005	1.5473	1.5151	Ave		1.5859				5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147121/2 Calibration Date: 02/12/2013 17:18

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18256.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6907	0.6163		44600	50000	-10.8	20.0
N-Nitrosodimethylamine	Ave	0.9554	0.8646		45200	50000	-9.5	20.0
Pyridine	Ave	1.679	1.498		44600	50000	-10.8	20.0
Benzaldehyde	Ave	0.7652	0.1657		10800	50000	-78.3*	20.0
Phenol	Ave	1.697	1.638		48200	50000	-3.5	20.0
Aniline	Ave	2.020	1.939		48000	50000	-4.0	20.0
Bis(2-chloroethyl)ether	Ave	1.495	1.361		45500	50000	-8.9	20.0
2-Chlorophenol	Ave	1.404	1.413		50300	50000	0.6	20.0
Decane	QuaF	1.792	1.413		38600	50000	-22.9*	20.0
1,3-Dichlorobenzene	Ave	1.640	1.597		48700	50000	-2.6	20.0
1,4-Dichlorobenzene	Ave	1.614	1.571		48700	50000	-2.7	20.0
Benzyl alcohol	Ave	0.8256	0.8140		49300	50000	-1.4	20.0
1,2-Dichlorobenzene	Ave	1.509	1.478		49000	50000	-2.1	20.0
2-Methylphenol	Ave	1.152	1.144		49600	50000	-0.7	20.0
2,2'-oxybis[1-chloropropane]	QuaF	2.124	1.821		41100	50000	-17.7	20.0
3 & 4 Methylphenol	Ave	1.174	1.097		46700	50000	-6.5	20.0
4-Methylphenol	Ave	1.181	1.097		46500	50000	-7.1	20.0
Acetophenone	Ave	1.619	1.459		45100	50000	-9.9	20.0
N-Nitrosodi-n-propylamine	Ave	0.8507	0.7557	0.0500	44400	50000	-11.2	20.0
Hexachloroethane	Ave	0.6193	0.5908		47700	50000	-4.6	20.0
Nitrobenzene	Ave	0.5117	0.4663		45600	50000	-8.9	20.0
n,n'-Dimethylaniline	Ave	1.826	1.840		50400	50000	0.8	20.0
Isophorone	Ave	0.6161	0.5805		47100	50000	-5.8	20.0
2-Nitrophenol	Ave	0.1995	0.2048		51300	50000	2.6	20.0
2,4-Dimethylphenol	Ave	0.3050	0.3020		49500	50000	-1.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.3972	0.3774		47500	50000	-5.0	20.0
Benzoic acid	QuaF	0.1131	0.1200		49100	50000	-1.8	20.0
2,4-Dichlorophenol	Ave	0.2642	0.2665		50400	50000	0.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3227	0.3156		48900	50000	-2.2	20.0
Naphthalene	Ave	1.042	1.005		48200	50000	-3.6	20.0
4-Chloroaniline	Ave	0.3756	0.3596		47900	50000	-4.3	20.0
Hexachlorobutadiene	Ave	0.1820	0.1783		49000	50000	-2.0	20.0
Caprolactam	Ave	0.0864	0.0734		42500	50000	-15.1	20.0
4-Chloro-3-methylphenol	Ave	0.2576	0.2434		47200	50000	-5.5	20.0
2-Methylnaphthalene	Ave	0.6163	0.6050		49100	50000	-1.8	20.0
1-Methylnaphthalene	Ave	0.6391	0.6213		48600	50000	-2.8	20.0
Hexachlorocyclopentadiene	Ave	0.2907	0.3700	0.0500	63600	50000	27.3*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6255	0.6186		49500	50000	-1.1	20.0
2-tertbutyl-4-methylphenol	Ave	0.4241	0.4146		48900	50000	-2.2	20.0
2,4,6-Trichlorophenol	Ave	0.3846	0.3884		50500	50000	1.0	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.3939		49100	50000	-1.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147121/2 Calibration Date: 02/12/2013 17:18

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18256.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.588	1.540		48500	50000	-3.0	20.0
2-Chloronaphthalene	Ave	1.214	1.191		49000	50000	-2.0	20.0
Diphenyl ether	Ave	0.8457	0.8356		49400	50000	-1.2	20.0
2-Nitroaniline	Ave	0.4316	0.3796		44000	50000	-12.0	20.0
Dimethylnaphthalene, total	Ave	1.024	0.9943		48500	50000	-2.9	20.0
Dimethyl phthalate	Ave	1.214	1.121		46200	50000	-7.7	20.0
Coumarin	Ave	0.1891	0.1681		44400	50000	-11.1	20.0
2,6-Dinitrotoluene	Ave	0.2821	0.2673		47400	50000	-5.3	20.0
Acenaphthylene	Ave	1.821	1.746		47900	50000	-4.1	20.0
3-Nitroaniline	Ave	0.2942	0.2603		44200	50000	-11.5	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.002	1.066		53200	50000	6.4	20.0
Acenaphthene	Ave	1.099	1.101		50100	50000	0.2	20.0
2,4-Dinitrophenol	QuaF	0.0976	0.1131	0.0500	53000	50000	6.1	20.0
4-Nitrophenol	Ave	0.1901	0.1640	0.0500	43100	50000	-13.8	20.0
2,4-Dinitrotoluene	Ave	0.3485	0.3150		45200	50000	-9.6	20.0
Dibenzofuran	Ave	1.550	1.461		47100	50000	-5.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2609	0.2481		47500	50000	-4.9	20.0
Diethyl phthalate	Ave	1.121	0.997		44500	50000	-11.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.5624	0.5335		47400	50000	-5.1	20.0
Fluorene	Ave	1.196	1.100		46000	50000	-8.0	20.0
4-Nitroaniline	Ave	0.2748	0.2195		39900	50000	-20.1*	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1211	0.1329		54900	50000	9.8	20.0
N-Nitrosodiphenylamine	Ave	0.5954	0.5873		49300	50000	-1.4	20.0
1,2-Diphenylhydrazine	Ave	1.054	1.043		49500	50000	-1.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2288	0.2406		52600	50000	5.2	20.0
Hexachlorobenzene	Ave	0.2412	0.2521		52300	50000	4.5	20.0
Atrazine	Ave	0.1948	0.2032		52200	50000	4.3	20.0
Pentachlorophenol	Ave	0.1311	0.1430		54600	50000	9.1	20.0
Pentachloronitrobenzene	Ave	0.0951	0.0918		48300	50000	-3.5	
n-Octadecane	Ave	0.6314	0.6163		48800	50000	-2.4	20.0
Phenanthrene	Ave	1.122	1.081		48200	50000	-3.6	20.0
Anthracene	Ave	1.132	1.099		48600	50000	-2.9	20.0
Carbazole	Ave	0.9462	0.8684		45900	50000	-8.2	20.0
Di-n-butyl phthalate	Ave	1.173	1.094		46600	50000	-6.8	20.0
Fluoranthene	Ave	1.032	0.9367		45400	50000	-9.2	20.0
Benzidine	Ave	0.2358	0.0426		9040	50000	-81.9*	20.0
Pyrene	Ave	1.739	1.692		48600	50000	-2.7	20.0
Butyl benzyl phthalate	Ave	0.7013	0.6464		46100	50000	-7.8	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2130	0.1593		374	500	-25.2*	20.0
Carbamazepine	LinF	0.4116	0.4118		42400	50000	-15.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147121/2 Calibration Date: 02/12/2013 17:18

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18256.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3630	0.2963		40800	50000	-18.4	20.0
Benzo[a]anthracene	Ave	1.243	1.172		47200	50000	-5.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9204	0.8505		46200	50000	-7.6	20.0
Chrysene	Ave	1.199	1.156		48200	50000	-3.6	20.0
Di-n-octyl phthalate	Ave	1.844	1.599		43400	50000	-13.3	20.0
Benzo[b]fluoranthene	Ave	1.232	1.237		50200	50000	0.4	20.0
Benzo[k]fluoranthene	Ave	1.426	1.339		46900	50000	-6.1	20.0
Benzo[a]pyrene	Ave	0.9744	0.9841		50500	50000	1.0	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.6713	0.7274		49700	50000	-0.6	20.0
Dibenz(a,h)anthracene	LinF	0.7541	0.8157		45100	50000	-9.8	20.0
Benzo[g,h,i]perylene	LinF	0.7720	0.8294		45400	50000	-9.1	20.0
2-Fluorophenol	Ave	1.382	1.355		49000	50000	-2.0	20.0
Phenol-d5	Ave	1.596	1.560		48900	50000	-2.2	20.0
Nitrobenzene-d5	Ave	0.3947	0.3834		48600	50000	-2.9	20.0
2-Fluorobiphenyl	Ave	1.391	1.406		50500	50000	1.1	20.0
2,4,6-Tribromophenol	Ave	0.1522	0.1491		49000	50000	-2.0	20.0
Terphenyl-d14	Ave	1.184	1.171		49400	50000	-1.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147316/2 Calibration Date: 02/13/2013 19:24

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18313.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6907	0.5775		41800	50000	-16.4	20.0
N-Nitrosodimethylamine	Ave	0.9554	0.8176		42800	50000	-14.4	20.0
Pyridine	Ave	1.679	1.437		42800	50000	-14.4	20.0
Benzaldehyde	Ave	0.7652	0.1617		10600	50000	-78.9*	20.0
Phenol	Ave	1.697	1.673		49300	50000	-1.4	20.0
Aniline	Ave	2.020	1.900		47000	50000	-5.9	20.0
Bis(2-chloroethyl)ether	Ave	1.495	1.316		44000	50000	-12.0	20.0
2-Chlorophenol	Ave	1.404	1.413		50300	50000	0.6	20.0
Decane	QuaF	1.792	1.195		31000	50000	-38.1*	20.0
1,3-Dichlorobenzene	Ave	1.640	1.579		48100	50000	-3.7	20.0
1,4-Dichlorobenzene	Ave	1.614	1.568		48600	50000	-2.8	20.0
Benzyl alcohol	Ave	0.8256	0.8334		50500	50000	0.9	20.0
1,2-Dichlorobenzene	Ave	1.509	1.484		49200	50000	-1.7	20.0
2-Methylphenol	Ave	1.152	1.144		49600	50000	-0.7	20.0
2,2'-oxybis[1-chloropropane]	QuaF	2.124	1.507		32100	50000	-35.8*	20.0
3 & 4 Methylphenol	Ave	1.174	1.143		48700	50000	-2.6	20.0
4-Methylphenol	Ave	1.181	1.143		48400	50000	-3.2	20.0
Acetophenone	Ave	1.619	1.487		45900	50000	-8.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8507	0.7430	0.0500	43700	50000	-12.7	20.0
Hexachloroethane	Ave	0.6193	0.5654		45600	50000	-8.7	20.0
n,n'-Dimethylaniline	Ave	1.826	1.860		50900	50000	1.8	20.0
Nitrobenzene	Ave	0.5117	0.4382		42800	50000	-14.4	20.0
Isophorone	Ave	0.6161	0.5807		47100	50000	-5.7	20.0
2-Nitrophenol	Ave	0.1995	0.2050		51400	50000	2.7	20.0
2,4-Dimethylphenol	Ave	0.3050	0.3047		49900	50000	-0.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3972	0.3706		46600	50000	-6.7	20.0
Benzoic acid	QuaF	0.1131	0.1476		58600	50000	17.3	20.0
2,4-Dichlorophenol	Ave	0.2642	0.2785		52700	50000	5.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3227	0.3155		48900	50000	-2.2	20.0
Naphthalene	Ave	1.042	0.999		47900	50000	-4.1	20.0
4-Chloroaniline	Ave	0.3756	0.3726		49600	50000	-0.8	20.0
Hexachlorobutadiene	Ave	0.1820	0.1755		48200	50000	-3.6	20.0
Caprolactam	Ave	0.0864	0.0854		49400	50000	-1.2	20.0
4-Chloro-3-methylphenol	Ave	0.2576	0.2651		51500	50000	2.9	20.0
2-Methylnaphthalene	Ave	0.6163	0.6268		50800	50000	1.7	20.0
1-Methylnaphthalene	Ave	0.6391	0.6496		50800	50000	1.6	20.0
Hexachlorocyclopentadiene	Ave	0.2907	0.3301	0.0500	56800	50000	13.6	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6255	0.6003		48000	50000	-4.0	20.0
2-tertbutyl-4-methylphenol	Ave	0.4241	0.4429		52200	50000	4.4	20.0
2,4,6-Trichlorophenol	Ave	0.3846	0.3916		50900	50000	1.8	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.4017		50000	50000	0.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147316/2 Calibration Date: 02/13/2013 19:24

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18313.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.588	1.501		47300	50000	-5.5	20.0
2-Chloronaphthalene	Ave	1.214	1.160		47800	50000	-4.5	20.0
Diphenyl ether	Ave	0.8457	0.8296		49000	50000	-1.9	20.0
2-Nitroaniline	Ave	0.4316	0.3613		41900	50000	-16.3	20.0
Dimethylnaphthalene, total	Ave	1.024	0.9906		48300	50000	-3.3	20.0
Dimethyl phthalate	Ave	1.214	1.173		48300	50000	-3.4	20.0
Coumarin	Ave	0.1891	0.1922		50800	50000	1.6	20.0
2,6-Dinitrotoluene	Ave	0.2821	0.2810		49800	50000	-0.4	20.0
Acenaphthylene	Ave	1.821	1.749		48000	50000	-4.0	20.0
3-Nitroaniline	Ave	0.2942	0.2662		45200	50000	-9.5	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.002	1.044		52100	50000	4.2	20.0
Acenaphthene	Ave	1.099	1.063		48400	50000	-3.2	20.0
2,4-Dinitrophenol	QuaF	0.0976	0.1234	0.0500	57200	50000	14.5	20.0
4-Nitrophenol	Ave	0.1901	0.1594	0.0500	41900	50000	-16.1	20.0
2,4-Dinitrotoluene	Ave	0.3485	0.3318		47600	50000	-4.8	20.0
Dibenzofuran	Ave	1.550	1.502		48400	50000	-3.1	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2609	0.2677		51300	50000	2.6	20.0
Diethyl phthalate	Ave	1.121	1.063		47400	50000	-5.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.5624	0.5582		49600	50000	-0.7	20.0
Fluorene	Ave	1.196	1.142		47700	50000	-4.6	20.0
4-Nitroaniline	Ave	0.2748	0.2200		40000	50000	-19.9	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1211	0.1327		54800	50000	9.6	20.0
N-Nitrosodiphenylamine	Ave	0.5954	0.6039		50700	50000	1.4	20.0
1,2-Diphenylhydrazine	Ave	1.054	0.9704		46000	50000	-7.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2288	0.2499		54600	50000	9.2	20.0
Hexachlorobenzene	Ave	0.2412	0.2607		54000	50000	8.1	20.0
Atrazine	Ave	0.1948	0.2051		52600	50000	5.3	20.0
Pentachlorophenol	Ave	0.1311	0.1418		54100	50000	8.2	20.0
Pentachloronitrobenzene	Ave	0.0951	0.0907		47700	50000	-4.6	
n-Octadecane	Ave	0.6314	0.5290		41900	50000	-16.2	20.0
Phenanthrene	Ave	1.122	1.087		48400	50000	-3.1	20.0
Anthracene	Ave	1.132	1.105		48800	50000	-2.4	20.0
Carbazole	Ave	0.9462	0.8520		45000	50000	-10.0	20.0
Di-n-butyl phthalate	Ave	1.173	1.070		45600	50000	-8.8	20.0
Fluoranthene	Ave	1.032	0.8921		43200	50000	-13.5	20.0
Benzidine	Ave	0.2358	0.0317		6720	50000	-86.6*	20.0
Pyrene	Ave	1.739	1.915		55100	50000	10.2	20.0
Butyl benzyl phthalate	Ave	0.7013	0.6590		47000	50000	-6.0	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2130	0.1892		444	500	-11.2	20.0
Carbamazepine	LinF	0.4116	0.3564		36700	50000	-26.7*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147316/2 Calibration Date: 02/13/2013 19:24

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18313.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3630	0.2834		39000	50000	-21.9*	20.0
Benzo[a]anthracene	Ave	1.243	1.157		46600	50000	-6.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9204	0.8559		46500	50000	-7.0	20.0
Chrysene	Ave	1.199	1.132		47200	50000	-5.6	20.0
Di-n-octyl phthalate	Ave	1.844	1.599		43400	50000	-13.3	20.0
Benzo[b]fluoranthene	Ave	1.232	1.232		50000	50000	0.0	20.0
Benzo[k]fluoranthene	Ave	1.426	1.344		47100	50000	-5.7	20.0
Benzo[a]pyrene	Ave	0.9744	1.000		51300	50000	2.6	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.6713	0.8571		57400	50000	14.9	20.0
Dibenz(a,h)anthracene	LinF	0.7541	0.8339		46100	50000	-7.8	20.0
Benzo[g,h,i]perylene	LinF	0.7720	0.8653		47400	50000	-5.2	20.0
2-Fluorophenol	Ave	1.382	1.330		48100	50000	-3.8	20.0
Phenol-d5	Ave	1.596	1.580		49500	50000	-1.0	20.0
Nitrobenzene-d5	Ave	0.3947	0.3610		45700	50000	-8.5	20.0
2-Fluorobiphenyl	Ave	1.391	1.380		49600	50000	-0.8	20.0
2,4,6-Tribromophenol	Ave	0.1522	0.1685		55400	50000	10.7	20.0
Terphenyl-d14	Ave	1.184	1.334		56300	50000	12.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147327/2 Calibration Date: 02/14/2013 03:48

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18334.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6907	0.5656		40900	50000	-18.1	20.0
N-Nitrosodimethylamine	Ave	0.9554	0.7813		40900	50000	-18.2	20.0
Pyridine	Ave	1.679	1.370		40800	50000	-18.4	20.0
Benzaldehyde	Ave	0.7652	0.3663		23900	50000	-52.1*	20.0
Phenol	Ave	1.697	1.617		47600	50000	-4.7	20.0
Aniline	Ave	2.020	1.841		45600	50000	-8.8	20.0
Bis(2-chloroethyl)ether	Ave	1.495	1.272		42500	50000	-14.9	20.0
2-Chlorophenol	Ave	1.404	1.366		48600	50000	-2.8	20.0
Decane	QuaF	1.792	1.134		28900	50000	-42.1*	20.0
1,3-Dichlorobenzene	Ave	1.640	1.593		48600	50000	-2.9	20.0
1,4-Dichlorobenzene	Ave	1.614	1.563		48400	50000	-3.2	20.0
Benzyl alcohol	Ave	0.8256	0.7706		46700	50000	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.509	1.462		48400	50000	-3.1	20.0
2-Methylphenol	Ave	1.152	1.080		46900	50000	-6.3	20.0
2,2'-oxybis[1-chloropropane]	QuaF	2.124	1.400		29200	50000	-41.6*	20.0
Acetophenone	Ave	1.619	1.421		43900	50000	-12.2	20.0
3 & 4 Methylphenol	Ave	1.174	1.058		45100	50000	-9.8	20.0
4-Methylphenol	Ave	1.181	1.058		44800	50000	-10.4	20.0
N-Nitrosodi-n-propylamine	Ave	0.8507	0.7008	0.0500	41200	50000	-17.6	20.0
Hexachloroethane	Ave	0.6193	0.5587		45100	50000	-9.8	20.0
n,n'-Dimethylaniline	Ave	1.826	1.788		49000	50000	-2.1	20.0
Nitrobenzene	Ave	0.5117	0.4341		42400	50000	-15.2	20.0
Isophorone	Ave	0.6161	0.5594		45400	50000	-9.2	20.0
2-Nitrophenol	Ave	0.1995	0.2031		50900	50000	1.8	20.0
2,4-Dimethylphenol	Ave	0.3050	0.2999		49200	50000	-1.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3972	0.3609		45400	50000	-9.1	20.0
Benzoic acid	QuaF	0.1131	0.1720		66500	50000	33.1*	20.0
2,4-Dichlorophenol	Ave	0.2642	0.2724		51500	50000	3.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3227	0.3246		50300	50000	0.6	20.0
Naphthalene	Ave	1.042	1.007		48300	50000	-3.3	20.0
4-Chloroaniline	Ave	0.3756	0.3678		49000	50000	-2.1	20.0
Hexachlorobutadiene	Ave	0.1820	0.1810		49700	50000	-0.6	20.0
Caprolactam	Ave	0.0864	0.0800		46300	50000	-7.5	20.0
4-Chloro-3-methylphenol	Ave	0.2576	0.2508		48700	50000	-2.6	20.0
2-Methylnaphthalene	Ave	0.6163	0.6245		50700	50000	1.3	20.0
1-Methylnaphthalene	Ave	0.6391	0.6378		49900	50000	-0.2	20.0
Hexachlorocyclopentadiene	Ave	0.2907	0.3171	0.0500	54600	50000	9.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6255	0.6153		49200	50000	-1.6	20.0
2-tertbutyl-4-methylphenol	Ave	0.4241	0.4323		51000	50000	1.9	20.0
2,4,6-Trichlorophenol	Ave	0.3846	0.3840		49900	50000	-0.2	20.0
2,4,5-Trichlorophenol	Ave	0.4014	0.3905		48600	50000	-2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147327/2 Calibration Date: 02/14/2013 03:48

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18334.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.588	1.506		47400	50000	-5.1	20.0
2-Chloronaphthalene	Ave	1.214	1.160		47800	50000	-4.4	20.0
Diphenyl ether	Ave	0.8457	0.8265		48900	50000	-2.3	20.0
2-Nitroaniline	Ave	0.4316	0.3411		39500	50000	-21.0*	20.0
Dimethylnaphthalene, total	Ave	1.024	0.9828		48000	50000	-4.1	20.0
Dimethyl phthalate	Ave	1.214	1.139		46900	50000	-6.2	20.0
Coumarin	Ave	0.1891	0.1801		47600	50000	-4.8	20.0
2,6-Dinitrotoluene	Ave	0.2821	0.2768		49100	50000	-1.9	20.0
Acenaphthylene	Ave	1.821	1.740		47800	50000	-4.4	20.0
3-Nitroaniline	Ave	0.2942	0.2593		44100	50000	-11.8	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.002	1.050		52400	50000	4.8	20.0
Acenaphthene	Ave	1.099	1.047		47600	50000	-4.7	20.0
2,4-Dinitrophenol	QuaF	0.0976	0.1243	0.0500	57600	50000	15.3	20.0
4-Nitrophenol	Ave	0.1901	0.1496	0.0500	39300	50000	-21.3*	20.0
2,4-Dinitrotoluene	Ave	0.3485	0.3222		46200	50000	-7.6	20.0
Dibenzofuran	Ave	1.550	1.479		47700	50000	-4.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2609	0.2621		50200	50000	0.5	20.0
Diethyl phthalate	Ave	1.121	1.029		45900	50000	-8.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.5624	0.5507		49000	50000	-2.1	20.0
Fluorene	Ave	1.196	1.131		47300	50000	-5.5	20.0
4-Nitroaniline	Ave	0.2748	0.2220		40400	50000	-19.2	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1211	0.1348		55700	50000	11.3	20.0
N-Nitrosodiphenylamine	Ave	0.5954	0.5995		50300	50000	0.7	20.0
1,2-Diphenylhydrazine	Ave	1.054	0.9407		44600	50000	-10.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2288	0.2519		55000	50000	10.1	20.0
Hexachlorobenzene	Ave	0.2412	0.2614		54200	50000	8.4	20.0
Atrazine	Ave	0.1948	0.2057		52800	50000	5.6	20.0
Pentachlorophenol	Ave	0.1311	0.1464		55800	50000	11.7	20.0
Pentachloronitrobenzene	Ave	0.0951	0.0899		47300	50000	-5.5	
n-Octadecane	Ave	0.6314	0.5223		41400	50000	-17.3	20.0
Phenanthrene	Ave	1.122	1.079		48100	50000	-3.8	20.0
Anthracene	Ave	1.132	1.106		48800	50000	-2.3	20.0
Carbazole	Ave	0.9462	0.8463		44700	50000	-10.6	20.0
Di-n-butyl phthalate	Ave	1.173	1.062		45200	50000	-9.5	20.0
Fluoranthene	Ave	1.032	0.9063		43900	50000	-12.2	20.0
Benzidine	Ave	0.2358	0.0529		11200	50000	-77.6*	20.0
Pyrene	Ave	1.739	1.836		52800	50000	5.6	20.0
Butyl benzyl phthalate	Ave	0.7013	0.6480		46200	50000	-7.6	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2130	0.1621		381	500	-23.9*	20.0
Carbamazepine	LinF	0.4116	0.4100		42200	50000	-15.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147327/2 Calibration Date: 02/14/2013 03:48

Instrument ID: BNAMS11 Calib Start Date: 02/11/2013 16:02

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/11/2013 17:54

Lab File ID: z18334.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3630	0.2932		40400	50000	-19.2	20.0
Benzo[a]anthracene	Ave	1.243	1.158		46600	50000	-6.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9204	0.8429		45800	50000	-8.4	20.0
Chrysene	Ave	1.199	1.132		47200	50000	-5.6	20.0
Di-n-octyl phthalate	Ave	1.844	1.504		40800	50000	-18.4	20.0
Benzo[b]fluoranthene	Ave	1.232	1.177		47800	50000	-4.4	20.0
Benzo[k]fluoranthene	Ave	1.426	1.366		47900	50000	-4.2	20.0
Benzo[a]pyrene	Ave	0.9744	0.9877		50700	50000	1.4	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.6713	0.8220		55400	50000	10.7	20.0
Dibenz(a,h)anthracene	LinF	0.7541	0.9007		49800	50000	-0.4	20.0
Benzo[g,h,i]perylene	LinF	0.7720	0.9174		50300	50000	0.5	20.0
2-Fluorophenol	Ave	1.382	1.265		45800	50000	-8.5	20.0
Phenol-d5	Ave	1.596	1.476		46300	50000	-7.5	20.0
Nitrobenzene-d5	Ave	0.3947	0.3567		45200	50000	-9.6	20.0
2-Fluorobiphenyl	Ave	1.391	1.391		50000	50000	-0.0	20.0
2,4,6-Tribromophenol	Ave	0.1522	0.1651		54200	50000	8.5	20.0
Terphenyl-d14	Ave	1.184	1.282		54100	50000	8.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147641/2 Calibration Date: 02/16/2013 11:00

Instrument ID: BNAMS11 Calib Start Date: 02/15/2013 03:05

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/15/2013 05:36

Lab File ID: z18432.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6698	0.5832		43500	50000	-12.9	20.0
N-Nitrosodimethylamine	Ave	0.9311	0.8330		44700	50000	-10.5	20.0
Pyridine	Ave	1.628	1.464		45000	50000	-10.1	20.0
Benzaldehyde	Ave	0.7206	0.1929		13400	50000	-73.2*	20.0
Phenol	Ave	1.695	1.685		49700	50000	-0.6	20.0
Aniline	Ave	1.958	1.992		50900	50000	1.8	20.0
Bis(2-chloroethyl)ether	Ave	1.576	1.379		43700	50000	-12.5	20.0
2-Chlorophenol	Ave	1.503	1.460		48600	50000	-2.9	20.0
Decane	Ave	1.700	1.481		43600	50000	-12.9	20.0
1,3-Dichlorobenzene	Ave	1.679	1.580		47000	50000	-5.9	20.0
1,4-Dichlorobenzene	Ave	1.662	1.576		47400	50000	-5.2	20.0
Benzyl alcohol	Ave	0.8369	0.8495		50800	50000	1.5	20.0
1,2-Dichlorobenzene	Ave	1.555	1.466		47100	50000	-5.8	20.0
2-Methylphenol	Ave	1.172	1.189		50700	50000	1.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.031	1.823		44900	50000	-10.3	20.0
3 & 4 Methylphenol	LinF	1.205	1.194		59100	50000	18.2	20.0
4-Methylphenol	LinF	1.207	1.194		59100	50000	18.2	20.0
Acetophenone	LinF	1.653	1.590		56900	50000	13.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.8360	0.8098	0.0500	48400	50000	-3.1	20.0
Hexachloroethane	Ave	0.6479	0.6190		47800	50000	-4.5	20.0
n,n'-Dimethylaniline	Ave	1.943	1.920		49400	50000	-1.2	20.0
Nitrobenzene	Ave	0.5274	0.4982		47200	50000	-5.5	20.0
Isophorone	Ave	0.6089	0.6052		49700	50000	-0.6	20.0
2-Nitrophenol	Ave	0.2042	0.2048		50200	50000	0.3	20.0
2,4-Dimethylphenol	Ave	0.3131	0.3145		50200	50000	0.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4070	0.3862		47400	50000	-5.1	20.0
Benzoic acid	QuaF	0.1576	0.1699		47200	50000	-5.6	20.0
2,4-Dichlorophenol	Ave	0.2662	0.2635		49500	50000	-1.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3316	0.3083		46500	50000	-7.0	20.0
Naphthalene	Ave	1.107	1.056		47700	50000	-4.6	20.0
4-Chloroaniline	Ave	0.3853	0.3712		48200	50000	-3.6	20.0
Hexachlorobutadiene	Ave	0.1806	0.1703		47100	50000	-5.7	20.0
Caprolactam	Ave	0.0688	0.0741		53900	50000	7.7	20.0
4-Chloro-3-methylphenol	Ave	0.2432	0.2661		54700	50000	9.4	20.0
2-Methylnaphthalene	Ave	0.6194	0.6105		49300	50000	-1.4	20.0
1-Methylnaphthalene	Ave	0.6250	0.6258		50100	50000	0.1	20.0
Hexachlorocyclopentadiene	Ave	0.3421	0.3536	0.0500	51700	50000	3.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6541	0.5959		45600	50000	-8.9	20.0
2-tertbutyl-4-methylphenol	Ave	0.3984	0.4231		53100	50000	6.2	20.0
2,4,6-Trichlorophenol	Ave	0.4006	0.3824		47700	50000	-4.5	20.0
2,4,5-Trichlorophenol	Ave	0.3966	0.3851		48600	50000	-2.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147641/2 Calibration Date: 02/16/2013 11:00

Instrument ID: BNAMS11 Calib Start Date: 02/15/2013 03:05

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/15/2013 05:36

Lab File ID: z18432.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.661	1.562		47000	50000	-6.0	20.0
2-Chloronaphthalene	Ave	1.298	1.187		45700	50000	-8.5	20.0
Diphenyl ether	Ave	0.8939	0.8324		46600	50000	-6.9	20.0
2-Nitroaniline	Ave	0.4024	0.4099		50900	50000	1.8	20.0
Dimethylnaphthalene, total	Ave	1.057	1.006		47600	50000	-4.8	20.0
Dimethyl phthalate	Ave	1.164	1.135		48700	50000	-2.5	20.0
Coumarin	Ave	0.1537	0.1673		54400	50000	8.8	20.0
2,6-Dinitrotoluene	Ave	0.2639	0.2683		50800	50000	1.7	20.0
Acenaphthylene	Ave	1.877	1.771		47200	50000	-5.6	20.0
3-Nitroaniline	Ave	0.2620	0.2509		47900	50000	-4.2	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.011	1.049		51900	50000	3.7	20.0
Acenaphthene	Ave	1.176	1.116		47500	50000	-5.1	20.0
2,4-Dinitrophenol	QuaF	0.1074	0.1116	0.0500	49700	50000	-0.7	20.0
4-Nitrophenol	Ave	0.1750	0.1777	0.0500	50800	50000	1.6	20.0
2,4-Dinitrotoluene	Ave	0.3089	0.3141		50800	50000	1.7	20.0
Dibenzofuran	Ave	1.540	1.461		47400	50000	-5.1	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2385	0.2387		50000	50000	0.0	20.0
Diethyl phthalate	Ave	1.043	1.037		49700	50000	-0.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.5487	0.5249		47800	50000	-4.3	20.0
Fluorene	Ave	1.145	1.116		48700	50000	-2.5	20.0
4-Nitroaniline	Ave	0.2180	0.2106		48300	50000	-3.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1302	0.1282		49200	50000	-1.6	20.0
N-Nitrosodiphenylamine	Ave	0.6480	0.6117		47200	50000	-5.6	20.0
1,2-Diphenylhydrazine	Ave	1.174	1.145		48800	50000	-2.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2419	0.2344		48400	50000	-3.1	20.0
Hexachlorobenzene	Ave	0.2552	0.2555		50100	50000	0.1	20.0
Atrazine	Ave	0.2002	0.2041		51000	50000	2.0	20.0
Pentachlorophenol	Ave	0.1420	0.1348		47500	50000	-5.0	20.0
Pentachloronitrobenzene	Ave	0.0928	0.0924		49800	50000	-0.5	
n-Octadecane	Ave	0.7035	0.6787		48200	50000	-3.5	20.0
Phenanthrene	Ave	1.136	1.100		48400	50000	-3.2	20.0
Anthracene	Ave	1.139	1.104		48500	50000	-3.1	20.0
Carbazole	Ave	0.8921	0.8624		48300	50000	-3.3	20.0
Di-n-butyl phthalate	Ave	1.101	1.117		50700	50000	1.4	20.0
Fluoranthene	Ave	0.8901	0.8733		49100	50000	-1.9	20.0
Benzidine	Ave	0.1517	0.0410		13500	50000	-73.0*	20.0
Pyrene	Ave	1.979	1.961		49600	50000	-0.9	20.0
Butyl benzyl phthalate	Ave	0.7151	0.7609		53200	50000	6.4	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1636	0.1657		507	500	1.3	20.0
Carbamazepine	QuaF	0.4187	0.4446		48300	50000	-3.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Lab Sample ID: CCVIS 460-147641/2 Calibration Date: 02/16/2013 11:00

Instrument ID: BNAMS11 Calib Start Date: 02/15/2013 03:05

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 02/15/2013 05:36

Lab File ID: z18432.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3484	0.2805		40300	50000	-19.5	20.0
Benzo[a]anthracene	Ave	1.264	1.183		46800	50000	-6.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9161	0.9881		53900	50000	7.9	20.0
Chrysene	Ave	1.210	1.155		47700	50000	-4.6	20.0
Di-n-octyl phthalate	LinF	1.528	1.826		53000	50000	6.1	20.0
Benzo[b]fluoranthene	Ave	1.184	1.150		48500	50000	-2.9	20.0
Benzo[k]fluoranthene	Ave	1.285	1.340		52100	50000	4.3	20.0
Benzo[a]pyrene	LinF	0.9483	0.9640		46300	50000	-7.4	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.8691	0.8556		44100	50000	-11.8	20.0
Dibenz(a,h)anthracene	LinF	0.8881	0.8447		41500	50000	-17.0	20.0
Benzo[g,h,i]perylene	Ave	0.9292	0.8461		45500	50000	-8.9	20.0
2-Fluorophenol	Ave	1.512	1.391		46000	50000	-8.0	20.0
Phenol-d5	Ave	1.642	1.607		48900	50000	-2.1	20.0
Nitrobenzene-d5	Ave	0.4022	0.4014		49900	50000	-0.2	20.0
2-Fluorobiphenyl	Ave	1.487	1.422		47800	50000	-4.4	20.0
2,4,6-Tribromophenol	Ave	0.1394	0.1484		53200	50000	6.4	20.0
Terphenyl-d14	Ave	1.247	1.309		52500	50000	5.0	20.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18122.d

Lab ID: LCS 460-146484/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	100	32.2	32	12-44	
2-Chlorophenol	100	79.9	80	53-101	
2-Methylphenol	100	67.7	68	40-90	
4-Methylphenol	100	60.5	60	30-75	
Benzaldehyde	100	155	155	52-150	*
Acetophenone	100	86.0	86	68-109	
Bis(2-chloroethyl)ether	100	90.5	91	62-108	
2,2'-oxybis[1-chloropropane]	100	101	101	68-107	
N-Nitrosodi-n-propylamine	100	97.1	97	70-109	
Nitrobenzene	100	85.9	86	66-106	
Hexachloroethane	100	80.4	80	50-99	
Isophorone	100	88.5	89	68-108	
2-Nitrophenol	100	94.3	94	65-107	
2,4-Dimethylphenol	100	80.1	80	55-100	
2,4-Dichlorophenol	100	85.2	85	64-107	
Bis(2-chloroethoxy)methane	100	97.4	97	69-108	
Naphthalene	100	84.9	85	63-101	
4-Chloroaniline	100	74.6	75	58-105	
Hexachlorobutadiene	100	79.4	79	52-99	
Caprolactam	100	23.0	23	10-30	
4-Chloro-3-methylphenol	100	77.6	78	57-106	
2-Methylnaphthalene	100	86.6	87	66-102	
Hexachlorobenzene	100	96.4	96	65-107	
Hexachlorocyclopentadiene	100	56.1	56	40-105	
2,4,6-Trichlorophenol	100	88.3	88	67-111	
2,4,5-Trichlorophenol	100	82.0	82	67-114	
Diphenyl	100	89.2	89	66-112	
2-Chloronaphthalene	100	90.2	90	65-107	
2-Nitroaniline	100	83.8	84	73-116	
2,6-Dinitrotoluene	100	91.2	91	68-114	
Dimethyl phthalate	100	95.5	96	69-111	
Acenaphthylene	100	88.5	89	67-107	
3-Nitroaniline	100	80.2	80	59-108	
Acenaphthene	100	91.0	91	66-108	
4-Nitrophenol	100	17.0 J	17	10-44	
2,4-Dinitrophenol	100	49.3	49	19-113	
Dibenzofuran	100	87.5	87	68-105	
Diethyl phthalate	100	93.6	94	66-109	
Fluorene	100	86.8	87	68-105	
Fluoranthene	100	87.6	88	68-108	
Di-n-butyl phthalate	100	99.9	100	68-111	
2,4-Dinitrotoluene	100	83.7	84	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18122.d

Lab ID: LCS 460-146484/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	88.7	89	68-105	
4-Nitroaniline	100	71.0	71	49-119	
4,6-Dinitro-2-methylphenol	100	82.6	83	58-115	
4-Bromophenyl phenyl ether	100	98.9	99	66-110	
Atrazine	100	66.1	66	56-116	
Anthracene	100	91.6	92	68-108	
Carbazole	100	82.7	83	67-110	
Phenanthrene	100	93.5	93	68-110	
Pentachlorophenol	100	69.0	69	55-116	
Pyrene	100	88.3	88	61-110	
Chrysene	100	95.1	95	68-112	
Benzo[k]fluoranthene	100	90.1	90	66-114	
Benzo[g,h,i]perylene	100	113	113	65-134	
Benzo[b]fluoranthene	100	82.7	83	65-111	
Benzo[a]pyrene	100	92.3	92	58-101	
Benzo[a]anthracene	100	90.7	91	65-106	
N-Nitrosodiphenylamine	100	101	101	71-121	
Butyl benzyl phthalate	100	95.9	96	66-115	
Bis(2-ethylhexyl) phthalate	100	98.7	99	66-114	
Di-n-octyl phthalate	100	81.0	81	51-115	
Indeno[1,2,3-cd]pyrene	100	96.2	96	68-121	
Dibenz(a,h)anthracene	100	108	108	67-124	
3,3'-Dichlorobenzidine	100	117	117	69-129	
1,2,4,5-Tetrachlorobenzene	100	80.8	81	70-130	
2,3,4,6-Tetrachlorophenol	100	74.3	74	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18290.d

Lab ID: LCS 460-146673/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	100	40.2	40	12-44	
2-Chlorophenol	100	91.4	91	53-101	
2-Methylphenol	100	80.9	81	40-90	
4-Methylphenol	100	67.9	68	30-75	
Benzaldehyde	100	105	105	52-150	
Acetophenone	100	88.1	88	68-109	
Bis(2-chloroethyl)ether	100	82.3	82	62-108	
2,2'-oxybis[1-chloropropane]	100	62.7	63	68-107	*
N-Nitrosodi-n-propylamine	100	87.4	87	70-109	
Nitrobenzene	100	81.8	82	66-106	
Hexachloroethane	100	86.3	86	50-99	
Isophorone	100	85.3	85	68-108	
2-Nitrophenol	100	98.8	99	65-107	
2,4-Dimethylphenol	100	88.5	89	55-100	
2,4-Dichlorophenol	100	103	103	64-107	
Bis(2-chloroethoxy)methane	100	91.3	91	69-108	
Naphthalene	100	91.3	91	63-101	
4-Chloroaniline	100	85.9	86	58-105	
Hexachlorobutadiene	100	91.7	92	52-99	
Caprolactam	100	28.6	29	10-30	
4-Chloro-3-methylphenol	100	95.3	95	57-106	
2-Methylnaphthalene	100	95.3	95	66-102	
Hexachlorobenzene	100	105	105	65-107	
Hexachlorocyclopentadiene	100	97.3	97	40-105	
2,4,6-Trichlorophenol	100	102	102	67-111	
2,4,5-Trichlorophenol	100	99.9	100	67-114	
Diphenyl	100	93.9	94	66-112	
2-Chloronaphthalene	100	95.1	95	65-107	
2-Nitroaniline	100	83.6	84	73-116	
2,6-Dinitrotoluene	100	98.1	98	68-114	
Dimethyl phthalate	100	95.2	95	69-111	
Acenaphthylene	100	93.8	94	67-107	
3-Nitroaniline	100	87.7	88	59-108	
Acenaphthene	100	94.4	94	66-108	
4-Nitrophenol	100	38.5	39	10-44	
2,4-Dinitrophenol	100	124	124	19-113	*
Dibenzofuran	100	92.8	93	68-105	
Diethyl phthalate	100	92.3	92	66-109	
Fluorene	100	91.6	92	68-105	
Fluoranthene	100	92.1	92	68-108	
Di-n-butyl phthalate	100	95.5	96	68-111	
2,4-Dinitrotoluene	100	93.4	93	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18290.d

Lab ID: LCS 460-146673/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	96.6	97	68-105	
4-Nitroaniline	100	82.8	83	49-119	
4,6-Dinitro-2-methylphenol	100	119	119	58-115	*
4-Bromophenyl phenyl ether	100	109	109	66-110	
Atrazine	100	84.6	85	56-116	
Anthracene	100	94.8	95	68-108	
Carbazole	100	92.4	92	67-110	
Phenanthrene	100	95.7	96	68-110	
Pentachlorophenol	100	110	110	55-116	
Pyrene	100	101	101	61-110	
Chrysene	100	92.1	92	68-112	
Benzo[k]fluoranthene	100	90.9	91	66-114	
Benzo[g,h,i]perylene	100	91.4	91	65-134	
Benzo[b]fluoranthene	100	91.9	92	65-111	
Benzo[a]pyrene	100	98.0	98	58-101	
Benzo[a]anthracene	100	93.0	93	65-106	
N-Nitrosodiphenylamine	100	103	103	71-121	
Butyl benzyl phthalate	100	98.3	98	66-115	
Bis(2-ethylhexyl) phthalate	100	96.6	97	66-114	
Di-n-octyl phthalate	100	89.9	90	51-115	
Indeno[1,2,3-cd]pyrene	100	101	101	68-121	
Dibenz(a,h)anthracene	100	90.6	91	67-124	
3,3'-Dichlorobenzidine	100	88.0	88	69-129	
1,2,4,5-Tetrachlorobenzene	100	90.0	90	70-130	
2,3,4,6-Tetrachlorophenol	100	94.4	94	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34206.d

Lab ID: LCS 460-146705/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	100	39.1	39	12-44	
2-Chlorophenol	100	82.3	82	53-101	
2-Methylphenol	100	75.1	75	40-90	
4-Methylphenol	100	62.5	63	30-75	
Benzaldehyde	100	124	124	52-150	
Acetophenone	100	87.3	87	68-109	
Bis(2-chloroethyl)ether	100	74.3	74	62-108	
2,2'-oxybis[1-chloropropane]	100	76.4	76	68-107	
N-Nitrosodi-n-propylamine	100	77.7	78	70-109	
Nitrobenzene	100	76.0	76	66-106	
Hexachloroethane	100	80.8	81	50-99	
Isophorone	100	78.2	78	68-108	
2-Nitrophenol	100	86.6	87	65-107	
2,4-Dimethylphenol	100	77.5	78	55-100	
2,4-Dichlorophenol	100	89.7	90	64-107	
Bis(2-chloroethoxy)methane	100	83.8	84	69-108	
Naphthalene	100	80.2	80	63-101	
4-Chloroaniline	100	78.1	78	58-105	
Hexachlorobutadiene	100	84.9	85	52-99	
Caprolactam	100	26.0	26	10-30	
4-Chloro-3-methylphenol	100	84.1	84	57-106	
2-Methylnaphthalene	100	80.8	81	66-102	
Hexachlorobenzene	100	84.8	85	65-107	
Hexachlorocyclopentadiene	100	73.5	73	40-105	
2,4,6-Trichlorophenol	100	89.7	90	67-111	
2,4,5-Trichlorophenol	100	92.5	93	67-114	
Diphenyl	100	82.2	82	66-112	
2-Chloronaphthalene	100	83.9	84	65-107	
2-Nitroaniline	100	82.4	82	73-116	
2,6-Dinitrotoluene	100	86.1	86	68-114	
Dimethyl phthalate	100	85.0	85	69-111	
Acenaphthylene	100	83.2	83	67-107	
3-Nitroaniline	100	84.2	84	59-108	
Acenaphthene	100	84.6	85	66-108	
4-Nitrophenol	100	34.9	35	10-44	
2,4-Dinitrophenol	100	83.8	84	19-113	
Dibenzofuran	100	83.1	83	68-105	
Diethyl phthalate	100	86.3	86	66-109	
Fluorene	100	80.5	81	68-105	
Fluoranthene	100	90.1	90	68-108	
Di-n-butyl phthalate	100	86.5	86	68-111	
2,4-Dinitrotoluene	100	87.6	88	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34206.d

Lab ID: LCS 460-146705/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	82.5	82	68-105	
4-Nitroaniline	100	86.2	86	49-119	
4,6-Dinitro-2-methylphenol	100	83.4	83	58-115	
4-Bromophenyl phenyl ether	100	84.6	85	66-110	
Atrazine	100	72.6	73	56-116	
Anthracene	100	82.7	83	68-108	
Carbazole	100	85.1	85	67-110	
Phenanthrene	100	82.4	82	68-110	
Pentachlorophenol	100	82.5	82	55-116	
Pyrene	100	73.9	74	61-110	
Chrysene	100	80.1	80	68-112	
Benzo[k]fluoranthene	100	81.5	82	66-114	
Benzo[g,h,i]perylene	100	84.7	85	65-134	
Benzo[b]fluoranthene	100	73.5	73	65-111	
Benzo[a]pyrene	100	78.2	78	58-101	
Benzo[a]anthracene	100	78.4	78	65-106	
N-Nitrosodiphenylamine	100	85.8	86	71-121	
Butyl benzyl phthalate	100	79.0	79	66-115	
Bis(2-ethylhexyl) phthalate	100	80.9	81	66-114	
Di-n-octyl phthalate	100	71.0	71	51-115	
Indeno[1,2,3-cd]pyrene	100	83.3	83	68-121	
Dibenz(a,h)anthracene	100	81.7	82	67-124	
3,3'-Dichlorobenzidine	100	74.0	74	69-129	
1,2,4,5-Tetrachlorobenzene	100	78.4	78	70-130	
2,3,4,6-Tetrachlorophenol	100	85.1	85	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18139.d

Lab ID: LCSD 460-146484/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	100	37.2	37	14	30	12-44	
2-Chlorophenol	100	87.8	88	9	30	53-101	
2-Methylphenol	100	76.1	76	12	30	40-90	
4-Methylphenol	100	68.7	69	13	30	30-75	
Benzaldehyde	100	161	161	4	30	52-150	*
Acetophenone	100	92.4	92	7	30	68-109	
Bis(2-chloroethyl)ether	100	97.2	97	7	30	62-108	
2,2'-oxybis[1-chloropropane]	100	107	107	6	30	68-107	
N-Nitrosodi-n-propylamine	100	102	102	5	30	70-109	
Nitrobenzene	100	89.7	90	4	30	66-106	
Hexachloroethane	100	85.2	85	6	30	50-99	
Isophorone	100	88.6	89	0	30	68-108	
2-Nitrophenol	100	98.2	98	4	30	65-107	
2,4-Dimethylphenol	100	86.5	86	8	30	55-100	
2,4-Dichlorophenol	100	97.4	97	13	30	64-107	
Bis(2-chloroethoxy)methane	100	98.9	99	2	30	69-108	
Naphthalene	100	88.2	88	4	30	63-101	
4-Chloroaniline	100	82.5	83	10	30	58-105	
Hexachlorobutadiene	100	79.8	80	0	30	52-99	
Caprolactam	100	21.5	22	7	30	10-30	
4-Chloro-3-methylphenol	100	93.3	93	18	30	57-106	
2-Methylnaphthalene	100	90.4	90	4	30	66-102	
Hexachlorobenzene	100	92.9	93	4	30	65-107	
Hexachlorocyclopentadiene	100	74.2	74	28	30	40-105	
2,4,6-Trichlorophenol	100	99.5	99	12	30	67-111	
2,4,5-Trichlorophenol	100	103	103	22	30	67-114	
Diphenyl	100	92.1	92	3	30	66-112	
2-Chloronaphthalene	100	95.1	95	5	30	65-107	
2-Nitroaniline	100	96.3	96	14	30	73-116	
2,6-Dinitrotoluene	100	95.4	95	4	30	68-114	
Dimethyl phthalate	100	95.8	96	0	30	69-111	
Acenaphthylene	100	94.0	94	6	30	67-107	
3-Nitroaniline	100	94.0	94	16	30	59-108	
Acenaphthene	100	95.4	95	5	30	66-108	
4-Nitrophenol	100	29.9 J	30	55	30	10-44	*
2,4-Dinitrophenol	100	80.8	81	48	30	19-113	*
Dibenzofuran	100	92.0	92	5	30	68-105	
Diethyl phthalate	100	93.2	93	0	30	66-109	
Fluorene	100	90.8	91	5	30	68-105	
Fluoranthene	100	93.0	93	6	30	68-108	
Di-n-butyl phthalate	100	95.6	96	4	30	68-111	
2,4-Dinitrotoluene	100	89.1	89	6	30	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18139.d

Lab ID: LCSD 460-146484/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	90.6	91	2	30	68-105	
4-Nitroaniline	100	92.1	92	26	30	49-119	
4,6-Dinitro-2-methylphenol	100	99.7	100	19	30	58-115	
4-Bromophenyl phenyl ether	100	96.6	97	2	30	66-110	
Atrazine	100	66.3	66	0	30	56-116	
Anthracene	100	93.8	94	2	30	68-108	
Carbazole	100	93.7	94	12	30	67-110	
Phenanthrene	100	95.5	96	2	30	68-110	
Pentachlorophenol	100	98.1	98	35	30	55-116	*
Pyrene	100	87.9	88	0	30	61-110	
Chrysene	100	101	101	6	30	68-112	
Benzo[k]fluoranthene	100	90.4	90	0	30	66-114	
Benzo[g,h,i]perylene	100	111	111	2	30	65-134	
Benzo[b]fluoranthene	100	92.5	92	11	30	65-111	
Benzo[a]pyrene	100	99.1	99	7	30	58-101	
Benzo[a]anthracene	100	93.8	94	3	30	65-106	
N-Nitrosodiphenylamine	100	105	105	3	30	71-121	
Butyl benzyl phthalate	100	95.1	95	1	30	66-115	
Bis(2-ethylhexyl) phthalate	100	94.3	94	4	30	66-114	
Di-n-octyl phthalate	100	77.9	78	4	30	51-115	
Indeno[1,2,3-cd]pyrene	100	99.8	100	4	30	68-121	
Dibenz(a,h)anthracene	100	108	108	0	30	67-124	
3,3'-Dichlorobenzidine	100	119	119	2	30	69-129	
1,2,4,5-Tetrachlorobenzene	100	82.8	83	2	30	70-130	
2,3,4,6-Tetrachlorophenol	100	92.8	93	22	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18291.d

Lab ID: LCSD 460-146673/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	100	39.2	39	3	30	12-44	
2-Chlorophenol	100	90.0	90	1	30	53-101	
2-Methylphenol	100	79.8	80	1	30	40-90	
4-Methylphenol	100	66.3	66	2	30	30-75	
Benzaldehyde	100	101	101	5	30	52-150	
Acetophenone	100	85.1	85	3	30	68-109	
Bis(2-chloroethyl)ether	100	79.6	80	3	30	62-108	
2,2'-oxybis[1-chloropropane]	100	60.5	60	4	30	68-107	*
N-Nitrosodi-n-propylamine	100	83.9	84	4	30	70-109	
Nitrobenzene	100	80.2	80	2	30	66-106	
Hexachloroethane	100	82.8	83	4	30	50-99	
Isophorone	100	84.8	85	1	30	68-108	
2-Nitrophenol	100	95.6	96	3	30	65-107	
2,4-Dimethylphenol	100	87.2	87	1	30	55-100	
2,4-Dichlorophenol	100	99.8	100	3	30	64-107	
Bis(2-chloroethoxy)methane	100	89.1	89	2	30	69-108	
Naphthalene	100	90.0	90	2	30	63-101	
4-Chloroaniline	100	87.0	87	1	30	58-105	
Hexachlorobutadiene	100	89.8	90	2	30	52-99	
Caprolactam	100	27.9	28	2	30	10-30	
4-Chloro-3-methylphenol	100	93.0	93	2	30	57-106	
2-Methylnaphthalene	100	93.4	93	2	30	66-102	
Hexachlorobenzene	100	100	100	5	30	65-107	
Hexachlorocyclopentadiene	100	93.6	94	4	30	40-105	
2,4,6-Trichlorophenol	100	97.4	97	5	30	67-111	
2,4,5-Trichlorophenol	100	95.2	95	5	30	67-114	
Diphenyl	100	89.0	89	5	30	66-112	
2-Chloronaphthalene	100	90.3	90	5	30	65-107	
2-Nitroaniline	100	80.3	80	4	30	73-116	
2,6-Dinitrotoluene	100	94.4	94	4	30	68-114	
Dimethyl phthalate	100	91.4	91	4	30	69-111	
Acenaphthylene	100	90.0	90	4	30	67-107	
3-Nitroaniline	100	86.9	87	1	30	59-108	
Acenaphthene	100	91.3	91	3	30	66-108	
4-Nitrophenol	100	38.5	39	0	30	10-44	
2,4-Dinitrophenol	100	122	122	2	30	19-113	*
Dibenzofuran	100	88.5	88	5	30	68-105	
Diethyl phthalate	100	90.2	90	2	30	66-109	
Fluorene	100	88.9	89	3	30	68-105	
Fluoranthene	100	89.9	90	2	30	68-108	
Di-n-butyl phthalate	100	93.0	93	3	30	68-111	
2,4-Dinitrotoluene	100	90.5	91	3	30	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: z18291.d

Lab ID: LCSD 460-146673/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	100	92.1	92	5	30	68-105	
4-Nitroaniline	100	84.4	84	2	30	49-119	
4,6-Dinitro-2-methylphenol	100	116	116	3	30	58-115	*
4-Bromophenyl phenyl ether	100	102	102	6	30	66-110	
Atrazine	100	86.6	87	2	30	56-116	
Anthracene	100	91.4	91	4	30	68-108	
Carbazole	100	90.5	91	2	30	67-110	
Phenanthrene	100	91.8	92	4	30	68-110	
Pentachlorophenol	100	106	106	3	30	55-116	
Pyrene	100	92.7	93	8	30	61-110	
Chrysene	100	88.3	88	4	30	68-112	
Benzo[k]fluoranthene	100	86.4	86	5	30	66-114	
Benzo[g,h,i]perylene	100	85.0	85	7	30	65-134	
Benzo[b]fluoranthene	100	90.2	90	2	30	65-111	
Benzo[a]pyrene	100	95.3	95	3	30	58-101	
Benzo[a]anthracene	100	89.2	89	4	30	65-106	
N-Nitrosodiphenylamine	100	98.4	98	5	30	71-121	
Butyl benzyl phthalate	100	93.4	93	5	30	66-115	
Bis(2-ethylhexyl) phthalate	100	93.1	93	4	30	66-114	
Di-n-octyl phthalate	100	88.7	89	1	30	51-115	
Indeno[1,2,3-cd]pyrene	100	90.6	91	11	30	68-121	
Dibenz(a,h)anthracene	100	86.7	87	4	30	67-124	
3,3'-Dichlorobenzidine	100	82.2	82	7	30	69-129	
1,2,4,5-Tetrachlorobenzene	100	84.9	85	6	30	70-130	
2,3,4,6-Tetrachlorophenol	100	91.5	92	3	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34166.d

Lab ID: 460-50466-1 MS Client ID: MW-10C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Phenol	103	0.84 U	37.0	36	12-44	
2-Chlorophenol	103	2.3 U	91.2	88	53-101	
2-Methylphenol	103	1.9 U	79.3	77	40-90	
4-Methylphenol	103	1.6 U	70.6	68	30-75	
Benzaldehyde	103	2.1 U	174	169	52-150	F
Acetophenone	103	2.8 U	109	105	68-109	
Bis(2-chloroethyl)ether	103	0.29 U	95.6	93	62-108	
2,2'-oxybis[1-chloropropane]	103	2.1 U	88.6	86	68-107	
N-Nitrosodi-n-propylamine	103	0.26 U	93.2	90	70-109	
Nitrobenzene	103	0.31 U	87.0	84	66-106	
Hexachloroethane	103	0.26 U	90.4	88	50-99	
Isophorone	103	2.8 U	85.0	82	68-108	
2-Nitrophenol	103	2.5 U	98.1	95	65-107	
2,4-Dimethylphenol	103	3.5 U	79.5	77	55-100	
2,4-Dichlorophenol	103	2.7 U	98.4	95	64-107	
Bis(2-chloroethoxy)methane	103	2.7 U	94.0	91	69-108	
Naphthalene	103	2.8 U	89.8	87	63-101	
4-Chloroaniline	103	2.1 U	76.0	74	58-105	
Hexachlorobutadiene	103	0.59 U	91.2	88	52-99	
Caprolactam	103	2.6 U	23.1	22	10-30	
4-Chloro-3-methylphenol	103	2.6 U	95.4	93	57-106	
2-Methylnaphthalene	103	3.1 U	92.5	90	66-102	
Hexachlorobenzene	103	0.30 U	94.2	91	65-107	
Hexachlorocyclopentadiene	103	1.8 U	79.9	78	40-105	
2,4,6-Trichlorophenol	103	2.5 U	99.8	97	67-111	
2,4,5-Trichlorophenol	103	2.7 U	101	98	67-114	
Diphenyl	103	2.9 U	91.5	89	66-112	
2-Chloronaphthalene	103	2.8 U	93.6	91	65-107	
2-Nitroaniline	103	5.1 U	96.3	93	73-116	
2,6-Dinitrotoluene	103	0.63 U	100	97	68-114	
Dimethyl phthalate	103	2.9 U	98.4	95	69-111	
Acenaphthylene	103	2.8 U	91.8	89	67-107	
3-Nitroaniline	103	5.2 U	83.4	81	59-108	
Acenaphthene	103	2.8 U	91.1	88	66-108	
4-Nitrophenol	103	6.9 U	37.2	36	10-44	
2,4-Dinitrophenol	103	5.6 U	99.6	97	19-113	
Dibenzofuran	103	2.9 U	94.6	92	68-105	
Diethyl phthalate	103	3.0 U	100	97	66-109	
Fluorene	103	2.9 U	93.5	91	68-105	
Fluoranthene	103	3.3 U	105	102	68-108	
Di-n-butyl phthalate	103	3.0 U	98.2	95	68-111	
2,4-Dinitrotoluene	103	0.48 U	105	101	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34166.d

Lab ID: 460-50466-1 MS Client ID: MW-10C MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	103	2.6 U	95.7	93	68-105	
4-Nitroaniline	103	6.0 U	74.5	72	49-119	
4,6-Dinitro-2-methylphenol	103	4.8 U	97.8	95	58-115	
4-Bromophenyl phenyl ether	103	2.6 U	90.0	87	66-110	
Atrazine	103	3.1 U	70.6	69	56-116	
Anthracene	103	2.9 U	93.4	91	68-108	
Carbazole	103	3.3 U	98.2	95	67-110	
Phenanthrene	103	3.2 U	96.4	93	68-110	
Pentachlorophenol	103	5.5 U	94.3	92	55-116	
Pyrene	103	3.0 U	86.2	84	61-110	
Chrysene	103	3.2 U	91.6	89	68-112	
Benzo[k]fluoranthene	103	0.27 U	81.0	79	66-114	
Benzo[g,h,i]perylene	103	2.1 U	81.1	79	65-134	
Benzo[b]fluoranthene	103	0.27 U	82.4	80	65-111	
Benzo[a]pyrene	103	0.14 U	81.7	79	58-101	
Benzo[a]anthracene	103	0.28 U	92.7	90	65-106	
N-Nitrosodiphenylamine	103	3.0 U	94.9	92	71-121	
Butyl benzyl phthalate	103	2.6 U	95.5	93	66-115	
Bis(2-ethylhexyl) phthalate	103	2.1 U	95.7	93	66-114	
Di-n-octyl phthalate	103	1.5 U	86.9	84	51-115	
Indeno[1,2,3-cd]pyrene	103	0.15 U	90.2	88	68-121	
Dibenz(a,h)anthracene	103	0.093 U	81.5	79	67-124	
3,3'-Dichlorobenzidine	103	5.1 U	47.2	46	69-129	F
1,2,4,5-Tetrachlorobenzene	103	2.7 U	85.4	83	70-130	
2,3,4,6-Tetrachlorophenol	103	2.6 U	98.7	96	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34167.d

Lab ID: 460-50466-1 MSD Client ID: MW-10C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	103	33.5	33	10	30	12-44	
2-Chlorophenol	103	84.9	82	7	30	53-101	
2-Methylphenol	103	73.7	71	7	30	40-90	
4-Methylphenol	103	65.5	64	7	30	30-75	
Benzaldehyde	103	165	160	5	30	52-150	F
Acetophenone	103	103	100	6	30	68-109	
Bis(2-chloroethyl)ether	103	90.4	88	6	30	62-108	
2,2'-oxybis[1-chloropropane]	103	83.2	81	6	30	68-107	
N-Nitrosodi-n-propylamine	103	89.0	86	5	30	70-109	
Nitrobenzene	103	82.2	80	6	30	66-106	
Hexachloroethane	103	84.1	82	7	30	50-99	
Isophorone	103	82.5	80	3	30	68-108	
2-Nitrophenol	103	93.4	91	5	30	65-107	
2,4-Dimethylphenol	103	75.7	73	5	30	55-100	
2,4-Dichlorophenol	103	93.9	91	5	30	64-107	
Bis(2-chloroethoxy)methane	103	88.7	86	6	30	69-108	
Naphthalene	103	83.7	81	7	30	63-101	
4-Chloroaniline	103	64.8	63	16	30	58-105	
Hexachlorobutadiene	103	86.7	84	5	30	52-99	
Caprolactam	103	23.7	23	3	30	10-30	
4-Chloro-3-methylphenol	103	92.8	90	3	30	57-106	
2-Methylnaphthalene	103	87.2	85	6	30	66-102	
Hexachlorobenzene	103	90.1	87	4	30	65-107	
Hexachlorocyclopentadiene	103	75.2	73	6	30	40-105	
2,4,6-Trichlorophenol	103	97.4	95	2	30	67-111	
2,4,5-Trichlorophenol	103	96.8	94	4	30	67-114	
Diphenyl	103	86.3	84	6	30	66-112	
2-Chloronaphthalene	103	88.0	85	6	30	65-107	
2-Nitroaniline	103	93.4	91	3	30	73-116	
2,6-Dinitrotoluene	103	98.2	95	2	30	68-114	
Dimethyl phthalate	103	94.6	92	4	30	69-111	
Acenaphthylene	103	87.6	85	5	30	67-107	
3-Nitroaniline	103	80.3	78	4	30	59-108	
Acenaphthene	103	85.6	83	6	30	66-108	
4-Nitrophenol	103	34.8	34	7	30	10-44	
2,4-Dinitrophenol	103	100	97	0	30	19-113	
Dibenzofuran	103	89.7	87	5	30	68-105	
Diethyl phthalate	103	96.5	94	4	30	66-109	
Fluorene	103	88.0	85	6	30	68-105	
Fluoranthene	103	94.9	92	10	30	68-108	
Di-n-butyl phthalate	103	93.4	91	5	30	68-111	
2,4-Dinitrotoluene	103	99.7	97	5	30	65-113	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x34167.d

Lab ID: 460-50466-1 MSD Client ID: MW-10C MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	103	90.0	87	6	30	68-105	
4-Nitroaniline	103	71.9	70	4	30	49-119	
4,6-Dinitro-2-methylphenol	103	94.1	91	4	30	58-115	
4-Bromophenyl phenyl ether	103	86.5	84	4	30	66-110	
Atrazine	103	65.5	64	7	30	56-116	
Anthracene	103	86.5	84	8	30	68-108	
Carbazole	103	92.4	90	6	30	67-110	
Phenanthrene	103	88.5	86	8	30	68-110	
Pentachlorophenol	103	89.8	87	5	30	55-116	
Pyrene	103	80.9	78	6	30	61-110	
Chrysene	103	83.1	81	10	30	68-112	
Benzo[k]fluoranthene	103	75.0	73	8	30	66-114	
Benzo[g,h,i]perylene	103	74.2	72	9	30	65-134	
Benzo[b]fluoranthene	103	76.1	74	8	30	65-111	
Benzo[a]pyrene	103	75.9	74	7	30	58-101	
Benzo[a]anthracene	103	85.3	83	8	30	65-106	
N-Nitrosodiphenylamine	103	88.7	86	7	30	71-121	
Butyl benzyl phthalate	103	90.0	87	6	30	66-115	
Bis(2-ethylhexyl) phthalate	103	88.7	86	8	30	66-114	
Di-n-octyl phthalate	103	83.5	81	4	30	51-115	
Indeno[1,2,3-cd]pyrene	103	82.4	80	9	30	68-121	
Dibenz(a,h)anthracene	103	74.0	72	10	30	67-124	
3,3'-Dichlorobenzidine	103	44.5	43	6	30	69-129	F
1,2,4,5-Tetrachlorobenzene	103	79.3	77	7	30	70-130	
2,3,4,6-Tetrachlorophenol	103	96.3	93	2	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 146648	Date: 02/08/2013 17:05		Prep Batch: 146565		Date: 02/08/2013 10:31						
9012A	460-50466-1	Cyanide, Total	0.0065	J	mg/L						
9012A	460-50466-1 MS	Cyanide, Total	0.169		mg/L	0.200	81	90-110			F
Batch ID: 147115	Date: 02/13/2013 11:52		Prep Batch: 147059		Date: 02/13/2013 09:00						
9012A	460-50516-1	Cyanide, Total	0.0060	J	mg/L						
9012A	460-50516-1 MS	Cyanide, Total	0.141		mg/L	0.200	67	90-110			F

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-50461-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 146648	Date: 02/08/2013 17:06		Prep Batch: 146565			Date: 02/08/2013 10:31					
9012A	460-50466-1 MSD	Cyanide, Total	0.151		mg/L	0.200	72	90-110	11	10	F
Batch ID: 147115	Date: 02/13/2013 11:53		Prep Batch: 147059			Date: 02/13/2013 09:00					
9012A	460-50516-1 MSD	Cyanide, Total	0.133		mg/L	0.200	64	90-110	5	10	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
February 2013

Data Usability Summary Report
National Grid/Equity Former MGP Site
January 2013 Soil Sampling Event
Final

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
February 2013

Data Usability Summary Report
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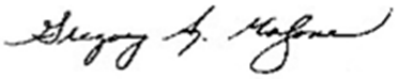
Final



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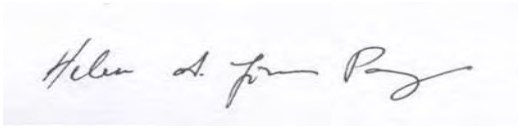

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on four data packages from TestAmerica Laboratories, Inc, TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817 for the analysis of soil samples collected January 9-22, 2013 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (COC) records.

- Volatile Organic Compounds with Library Search for Tentatively Identified Compounds (TICs) by USEPA SW-846 Method 8260B
- Semivolatile Organic Compounds with Library Search for TICs by USEPA SW-846 Method 8270C
- Percent Solids for Dry Weight Corrections by Method SM2540 G mod.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008, May 1999, as they apply to the analytical methods employed. Field duplicate RPD review and applicable acceptance limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996.

The samples were processed and the results were reported under four sample delivery groups (SDGs). Table 1 provides a sample submittal list with the field IDs cross-referenced with the TestAmerica IDs.

Table 1 - Sample Submittals
National Grid / Equity Soil Samples

Field ID	Laboratory ID	Matrix	Date Sampled
SB-32 (64-66)	460-49238-1	Soil	1/9/2013
SB-28 (33-35)	460-49385-1	Soil	1/10/2013
SB-28 (65-66)	460-49385-2	Soil	1/10/2013
SB-27(80-85)	460-49385-3	Soil	1/11/2013
SB-27 (90-92)	460-49385-4	Soil	1/11/2013
SB-33 (35-36)	460-49593-1	Soil	1/15/2013
SB-33 (50-54)	460-49593-2	Soil	1/15/2013
SB-34 (35-36)	460-49827-1	Soil	1/21/2013
SB-34 (97-98)	460-49827-2	Soil	1/21/2013
DUPE-1-13	460-49827-3	Soil (QC)	1/21/2013
SB-35 (35-36)	460-49827-4	Soil	1/22/2013
SB-35 (44-45)	460-49827-5	Soil	1/22/2013

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate

recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Two non-detect acetone results were rejected because of poor instrument sensitivity. All other data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Several data points were qualified because of blank contamination and method and/or instrument bias. There were several instances of elevated reporting limits caused by the dilution required to bring the compound concentrations into the calibration range and/or minimize matrix interferences. Completeness of 99.9% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

460-49238-1

Blank Contamination (pp.125-126): Methylene chloride was detected in the method preparation blank MB 460-143364/5 at a concentration less than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies methylene chloride as a common laboratory solvent and contaminant. The positive methylene chloride result for associated sample SB-32 (64-66) was less than the reporting limit and was qualified "U," at the reporting limit as undetected, because of laboratory contamination.

Acetone was detected in the method preparation blank MB 460-143364/5 at a concentration less than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies acetone as a common laboratory solvent and contaminant. The positive acetone result for associated sample SB-32 (64-66) was greater than two times the reporting limit and did not require qualification.

Calibrations (pp.58-63, 108-110): The 01/13/13 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS9. In addition, the continuing calibration response factor for 1,4-dioxane was less than the specification limit of 0.005 on 01/16/13 at 06:23 on instrument VOAMS9. The non-detect 1,4-dioxane result for associated sample SB-32 (64-66) was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The 01/13/13 initial calibration average relative response factor for 2-butanone was less than the specification limit of 0.05 on instrument VOAMS9. In addition, the continuing calibration response factor for 2-butanone was less than the specification limit of 0.05 on 01/16/13 at 06:23 on instrument VOAMS9. The 2-butanone result for associated sample SB-32 (64-66) was positive and was qualified "J," as an estimated concentration, because of poor instrument sensitivity.

The continuing calibration percent differences/drifts for trans-1,3-dichloropropene and bromoform were less than the lower quality control limit of -20% on 01/16/13 at 06:23 on instrument VOAMS9. The non-detect trans-1,3-dichloropropene and bromoform results for associated sample SB-32 (64-66) were qualified "UJ," as estimates, because of low instrument bias.

Laboratory Control Sample RPDs (pp.40-43): The relative percent difference (RPD) between the LCS and LCSD 460-143364/3&4 recoveries for acetone was greater than the maximum quality control limit. The positive acetone result for associated sample SB-32 (64-66) was qualified "J," as an estimated concentration, because of method imprecision.

460-49385-1

Blank Contamination (pp. 329-331): Acetone and methylene chloride were detected in the method preparation blank MB 460-143173/5 at concentrations less than two times the reporting limits. In the *National Functional* Guidelines the USEPA identifies acetone and methylene chloride as common laboratory solvents and contaminants. The positive acetone and methylene chloride results for associated samples SB-28 (33-35), SB-28 (65-66), and SB-27 (90-92) were less than two times the reporting limits and were qualified "U," as undetected at the reporting limits, because of laboratory contamination.

Surrogate Recoveries/Dilutions (p. 82): Sample SB-27 (80-85) required analysis using the medium-level soil (MLS) methanol extraction technique at a 2500-fold initial dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to assess method accuracy. There were sufficient, acceptable quality control check results to demonstrate that the analytical process was in control. No data qualifications were necessary based on professional judgment. The initial dilution elevated the reporting limits and MDLs for non-detect results.

Calibrations (pp. 174-179, 217-222, 297-299, 305-307): The 01/09/13 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS12. In addition, the continuing calibration response factor for 1,4-dioxane was less than the specification limit of 0.005 on 01/14/13 at 20:06 on instrument VOAMS12. The non-detect 1,4-dioxane results for associated samples SB-28 (33-35), SB-28 (65-66), and SB-27 (90-92) were qualified "UJ," as estimates, because of poor instrument sensitivity.

The continuing calibration response factor for 1,4-dioxane was less than the specification limit of 0.005 on 01/16/13 at 07:57 on instrument VOAMS4. The non-detect 1,4-dioxane result for associated sample SB-27 (80-85) was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The 01/10/13 MLS initial calibration average relative response factor for acetone was less than the specification limit of 0.05 on instrument VOAMS4. The non-detect acetone result for associated sample SB-27 (80-85) was qualified "R," as rejected, because of poor instrument sensitivity.

The 01/09/13 initial calibration average relative response factor for 2-butanone was less than the specification limit of 0.05 on instrument VOAMS12. In addition, the continuing calibration response factor for 2-butanone was less than the specification limit of 0.05 on 01/14/13 at 20:06 on instrument VOAMS12. The positive 2-butanone results for associated samples SB-28 (33-35), SB-28 (65-66), and SB-27 (90-92) were qualified "J," as estimated concentrations, because of poor instrument sensitivity.

460-49593-1

Blank Contamination (pp. 253-255): Acetone and methylene chloride were detected in the method preparation blank MB 460-143884/5 at concentrations less than two times the reporting limits. In the *National Functional* Guidelines the USEPA identifies acetone and methylene chloride as common laboratory solvents and contaminants. The positive acetone and methylene chloride results for associated sample SB-33 (50-54) were less than two times the reporting limits and were qualified "U," as undetected at the reporting limits, because of laboratory contamination.

Surrogate Recoveries/Dilutions (p. 59): Sample SB-33 (35-36) required analysis using the medium-level soil (MLS) methanol extraction technique at a 2000-fold initial dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to assess method accuracy. There were sufficient, acceptable quality control check results to demonstrate that the analytical process was in control. No data qualifications were necessary based on professional judgment. The initial dilution elevated the reporting limits and MDLs for non-detect results.

Holding Time/Sample Preservation (Case Narrative and COC): Sample SB-33 (50-54) was preserved for low-level volatiles analysis 3.5 hours beyond the USEPA 48-hour holding time for sample preservation. Low-level samples must be frozen and SB-33 (50-54) was not solid upon receipt at the lab. The service center does not freeze them in route to the laboratory. All positive and non-detect volatile compound results for sample SB-33 (35-36) were qualified "J/UJ," as estimates, due to low bias because the holding time was exceeded.

Calibrations (pp. 221-223, 229-231): The 01/22/13 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS4. In addition, the continuing calibration response factor for 1,4-dioxane was less than the advisory limit of 0.005 on 01/23/13 at 09:22 on instrument VOAMS4. The 1,4-dioxane result for associated sample SB-33 (35-36) was non-detect and was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The 01/12/13 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS9. In addition, the continuing calibration response factor for 1,4-dioxane was less than the advisory limit of 0.005 on 01/18/13 at 19:53 on instrument VOAMS9. The 1,4-dioxane result for associated sample SB-33 (50-54) was non-detect and was qualified "UJ," as an estimate, because of poor instrument sensitivity.

The 01/23/13 initial calibration average relative response factor for acetone was less than the advisory limit of 0.05 on instrument VOAMS4. In addition, the continuing calibration response factor for acetone was less than the advisory limit of 0.05 on 01/23/13 at 09:22 on instrument VOAMS4. The acetone result for associated sample SB-33 (35-36) was non-detect and was qualified "R," as rejected, because of poor instrument sensitivity.

The 01/12/13 initial calibration average relative response factor for 2-butanone was less than the advisory limit of 0.05 on instrument VOAMS9. In addition, the continuing calibration response factor for 2-butanone was less than the advisory limit of 0.05 on 01/18/13 at 19:53 on instrument VOAMS9. The 2-butanone result for associated sample SB-33 (50-54) was positive and was qualified "J," as an estimated concentration, because of poor instrument sensitivity.

The continuing calibration percent difference for bromoform was less than the lower quality control limit of -20% on 01/23/13 at 09:22 on instrument VOAMS4. The bromoform result for associated sample SB-33 (35-36) was non-detect and was qualified "UJ," as an estimate, because of low instrument bias.

The continuing calibration percent differences/drift for carbon tetrachloride, trans-1,3-dichloropropene, and bromoform were less than the lower quality control limit of -20% on 01/18/13 at 19:53 on instrument VOAMS9. The carbon tetrachloride, trans-1,3-dichloropropene, and bromoform results for associated sample SB-33 (50-54) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

460-49827-1

Blank Contamination (pp.225-226): Acetone was detected in the method preparation blank MB 460-145061/6 at a concentration less than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies acetone as a common laboratory solvent and contaminant. The positive acetone results for associated samples SB-34 (35-36), DUPE-1-13, and SB-35 (35-36) were less than the reporting limit and were qualified "U," at the reporting limit as undetected, because of laboratory contamination. The positive acetone result for associated samples SB-34 (97-98) and SB-35 (44-45) were greater than two times the reporting limit and did not require qualification.

Holding Time/Sample Preservation (Case Narrative and COC): Samples SB-34 (35-36), SB-34 (97-98), and DUPE-1-13 were preserved for low-level volatiles analysis 6.5-8 hours beyond the USEPA 48-hour holding time for sample preservation. Low-level samples must be frozen and SB-34 (35-36), SB-34 (97-98), and DUPE-1-13 were not solid upon receipt at the lab. The service center does not freeze them in route to the laboratory. All positive and non-detect volatile compound results for samples SB-34 (35-36), SB-34 (97-98), and DUPE-1-13 were qualified "J/UJ," as estimates, due to low bias because the holding time was exceeded.

Calibrations (pp. 209-211): The 01/28/13 initial calibration average relative response factor for 1,4-dioxane was less than the advisory limit of 0.005 on instrument VOAMS12. In addition, the continuing calibration response factor for 1,4-dioxane was less than the advisory limit of 0.005 on 01/29/13 at 07:12 on instrument VOAMS12. The 1,4-dioxane results for associated samples SB-34 (35-36), SB-34 (97-98), DUPE-1-13, SB-35 (35-36) and SB-35 (44-45) were non-detect and were qualified "UJ," as estimates, because of poor instrument sensitivity.

The 01/28/13 initial calibration average relative response factor for 2-butanone was less than the advisory limit of 0.05 on instrument VOAMS12. In addition, the continuing calibration response factor for 2-butanone was less than the advisory limit of 0.05 on 01/29/13 at 07:12 on instrument VOAMS12. The 2-butanone results for associated samples SB-34 (35-36), SB-34 (97-98), DUPE-1-13, SB-35 (35-36) and SB-35 (44-45) were positive and were qualified "J," as estimated concentrations, because of poor instrument sensitivity.

The continuing calibration percent differences for bromoform and 1,2-dibromo-3-chloropropane were less than the lower quality control limit of -20% on 01/29/13 at 07:12 on instrument VOAMS12. The bromoform and 1,2-dibromo-3-chloropropane results for associated samples SB-34 (35-36), SB-34 (97-98), DUPE-1-13, SB-35

(35-36) and SB-35 (44-45) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The continuing calibration percent drift acetone was greater than the upper quality control limit of 20% on 01/29/13 at 07:12 on instrument VOAMS12. The positive acetone results for associated samples SB-34 (97-98) and SB-35 (44-45) were qualified “J,” as estimated concentrations, because of high instrument bias. The acetone results for samples SB-34 (35-36), DUPE-1-13, and SB-35 (35-36) were qualified “U,” as undetected, because of laboratory contamination. No further data qualifications were required.

Matrix Spike Recoveries (pp.72-75): The SB-35 (35-36) MS and/or MSD recoveries for carbon disulfide, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1,1-trichloroethane, carbon tetrachloride, styrene, trichloroethene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, tetrachloroethene, and 1,2-dibromo-3-chloropropane were less than the lower advisory limits, but greater than 10%. The positive and non-detect carbon disulfide, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1,1-trichloroethane, carbon tetrachloride, styrene, trichloroethene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, tetrachloroethene, and 1,2-dibromo-3-chloropropane results for sample SB-35 (35-36) were qualified “J/UJ,” as estimates, because of low bias attributable to matrix effects.

2.0 Semivolatile Organic Compounds

460-49238-1

Calibrations (pp.233-238, 293-295): The initial calibration relative standard deviations (RSDs) for benzaldehyde were greater than 15% on 01/08/13 on instrument BNAMS4. The benzaldehyde, result for associated sample SB-32 (64-66) was non-detect and was qualified "UJ," as an estimate, because of calibration nonconformance.

The continuing calibration percent difference for benzaldehyde was less than the lower quality control limit of -20% on 01/11/13 at 09:49 on instrument BNAMS4. Sensitivity decreased with respect to the initial calibration average relative response factor. The benzaldehyde result for associated sample SB-32 (64-66) was non-detect and was qualified "UJ," as an estimate, because of low instrument bias.

460-49385-1

Calibrations (pp.476, 537, 586-588, 597-599): The initial calibration RSDs for benzaldehyde were greater than 15% on 01/16/13 on instrument BNAMS10 and on 01/11/13 on instrument BNAMS11. The benzaldehyde results for associated samples SB-28 (33-35), SB-28 (65-66), SB-27 (80-85), and SB-27 (90-92) were non-detect and were qualified "UJ," as estimates, because of calibration nonconformance.

The continuing calibration percent difference for hexachlorocyclopentadiene was less than the lower quality control limit of -20% on 01/17/13 at 03:46 on instrument BNAMS10. Sensitivity decreased with respect to the initial calibration average relative response factor. The hexachlorocyclopentadiene results for associated samples SB-28 (33-35), SB-28 (65-66), and SB-27 (90-92) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The continuing calibration percent drift for 2,4-dinitrophenol were less than the lower quality control limit of -20% on 01/20/13 at 17:26 on instrument BNAMS11. Sensitivity decreased with respect to the continuing calibration standard true value. The 2,4-dinitrophenol results for associated sample SB-27 (80-85) was non-detect and was qualified "UJ," as an estimate, because of low instrument bias.

Laboratory Control Sample Recoveries (pp.387-390): The LCS (460-143055/2-A) recovery for 1,2,4,5-tetrachlorobenzene was less than the lower quality control limit, but greater than 10%. The 1,2,4,5-tetrachlorobenzene results for associated samples SB-28 (33-35), SB-28 (65-66), and SB-27 (90-92) were non-detect and were qualified "UJ," as estimates, because of low method bias.

The LCS (460-143852/2-A) recovery for benzaldehyde was less than the lower quality control limit, but greater than 10%. The benzaldehyde result for associated sample SB-27 (80.85) was non-detect and was qualified "UJ," as an estimate, because of low method bias.

Surrogate Recoveries/Dilutions (p. 386): Sample SB-27 (80-85) required analysis at a 150-fold initial dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to assess method accuracy. There were sufficient, acceptable quality control check results to demonstrate that the analytical process was in control. No data qualifications were necessary based on professional judgment. The initial dilution elevated the reporting limits and MDLs for non-detect results.

460-49593-1

Calibrations (p.386): The initial calibration RSD for benzaldehyde was greater than 15% on 01/16/13 on instrument BNAMS10. The benzaldehyde, results for associated samples SB-33 (35-36) and SB-33 (52-54) were non-detect and were qualified "UJ," as estimates, because of initial calibration nonconformance and low instrument bias.

Laboratory Control Sample Recoveries (pp.317-318): The LCS (460-143723/2-A) recovery for 1,2,4,5-tetrachlorobenzene was less than the lower quality control limit, but greater than 10%. The 1,2,4,5-tetrachlorobenzene results for associated samples SB-33 (35-36) and SB-33 (52-54) were non-detect and were qualified "UJ," as estimates, because of low method bias.

Surrogate Recoveries/Dilutions (p. 316): Sample SB-33 (35-36) required analysis at a 200-fold dilution to bring the target compound concentrations into the calibration range. The surrogates were diluted out and could not be used to evaluate method accuracy. There were sufficient, acceptable quality control check results to demonstrate that the analytical process was in control. No data qualifications were necessary based on professional judgment. The initial dilution elevated the reporting limits and MDLs for non-detect results.

460-49827-1

Calibrations (pp.331,392-394): The initial calibration relative standard deviations (RSDs) for benzaldehyde were greater than 15% on 01/16/13 on instrument BNAMS10. The benzaldehyde, results for associated samples SB-34(35-36), SB-34 (97-98), DUPE-1-13, SB-35 (35-36), and SB-35 (44-45) were non-detect and were qualified "UJ," as an estimate, because of calibration nonconformance.

The continuing calibration percent differences for benzaldehyde, caprolactam, 2-nitroaniline, and 4-nitroaniline were less than the lower quality control limit of -20% on 01/25/13 at 02:15 on instrument BNAMS10. Sensitivity decreased with respect to the initial calibration average relative response factors. The benzaldehyde, caprolactam, 2-nitroaniline, and 4-nitroaniline results for associated samples SB-34(35-36), SB-34 (97-98), DUPE-1-13, SB-35 (35-36), and SB-35 (44-45) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

Matrix Spike Recoveries (pp.263-266): The SB-35 (35-36) MS/MSD recoveries for benzo(b)fluoranthene and benzo(a)pyrene were greater than the upper advisory limits. The benzo(b)fluoranthene and benzo(a)pyrene results for sample SB-35 (35-36) were positive and were qualified "J," as estimated concentrations, because of high bias attributable to matrix effects.

Data Reporting (pp. Form 1s): The volatile tentatively identified compounds (TICs) were not reported in the original 460-49827-1 data report from TestAmerica-Edison. The data were requested and the EDDs and data report were revised to include the TICs.

3.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

4.0 Field Duplicate Precision

A field duplicate sample was collected for sample SB-34 (35-36). Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments, or the difference between the parent and field duplicate results must be less than the reporting limit for results less than five times the reporting limit.

The results for the parent and field duplicate sample were non-detects, with exception to those listed in Table 2 below. All RPDs were less than the maximum advisory limits or the difference criteria were met for all compounds/analytes except those listed in bolded test. In the case of nonconforming field duplicate precision, for organic compounds the parent and field duplicate sample results are qualified "J/UJ", for nonconforming inorganic parameters all results in the SDG are qualified "J/UJ," as estimates, because of field sampling/laboratory imprecision and/or sample heterogeneity.

Table 2 – Field Duplicate Precision
National Grid / Equity Soil Samples

Parameter	SB-34 (35-36)		DUPE-1-13		RPD (%)
Benzene	4.5	µg/kg	6.2	µg/kg	32
Toluene	0.26 J	µg/kg	0.31 J	µg/kg	18
Ethylbenzene	**1.5**	**µg/kg**	**4.2**	**µg/kg**	**95**
o-Xylene	0.74 U	µg/kg	0.25 J	µg/kg	NC *
Isopropylbenzene	0.12 J	µg/kg	0.20 J	µg/kg	50*
MTBE	**4.7**	**µg/kg**	**2.8**	**µg/kg**	**51**
cis-1,2-Dichloroethene	11	µg/kg	6.8	µg/kg	47
trans-1,2-Dichloroethene	2.5	µg/kg	1.8	µg/kg	33
Trichloroethene	21	µg/kg	15	µg/kg	33
Tetrachloroethene	290	µg/kg	240	µg/kg	19
Carbon disulfide	0.22 J	µg/kg	0.27 J	µg/kg	20
Methylene chloride	0.25 J	µg/kg	0.27 J	µg/kg	8
Acetone	13	µg/kg	13	µg/kg	0
2-Butanone	2.5 J	µg/kg	3.4 J	µg/kg	31
Percent Solids	90.9	%	91.0	%	0.11

The following notations are used in the field precision table.

RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit for results less than five times the reporting limit. Variation of this magnitude is acceptable.

µg/kg: micrograms per kilogram (ppb)

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) Lab Sample ID: 460-49238-1

Matrix: Solid Lab File ID: k08657.d

Analysis Method: 8260B Date Collected: 01/08/2013 10:00

Sample wt/vol: 7.16(g) Date Analyzed: 01/16/2013 09:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: 13.9 Level: (low/med) Low

Analysis Batch No.: 143364 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.13	U	0.81	0.13
74-83-9	Bromomethane	0.35	U	0.81	0.35
75-01-4	Vinyl chloride	0.28	U	0.81	0.28
75-00-3	Chloroethane	0.27	U	0.81	0.27
75-09-2	Methylene Chloride	0.814 ~~0.62~~	~~J B~~	0.81	0.12
67-64-1	Acetone	37	~~B~~ J	8.1	1.4
75-15-0	Carbon disulfide	1.5		0.81	0.12
75-69-4	Trichlorofluoromethane	0.13	U	0.81	0.13
75-35-4	1,1-Dichloroethene	0.15	U	0.81	0.15
75-34-3	1,1-Dichloroethane	0.089	U	0.81	0.089
156-60-5	trans-1,2-Dichloroethene	0.11	U	0.81	0.11
156-59-2	cis-1,2-Dichloroethene	0.089	U	0.81	0.089
67-66-3	Chloroform	0.19	U	0.81	0.19
78-93-3	2-Butanone	9.9	J	8.1	0.51
107-06-2	1,2-Dichloroethane	0.15	U	0.81	0.15
71-55-6	1,1,1-Trichloroethane	0.11	U	0.81	0.11
56-23-5	Carbon tetrachloride	0.12	U	0.81	0.12
71-43-2	Benzene	0.12	U	0.81	0.12
75-25-2	Bromoform	0.14	UJ	0.81	0.14
100-42-5	Styrene	0.23	U	0.81	0.23
179601-23-1	m&p-Xylene	0.48	U	1.6	0.48
95-47-6	o-Xylene	0.15	U	0.81	0.15
100-41-4	Ethylbenzene	0.14	U	0.81	0.14
108-90-7	Chlorobenzene	0.15	U	0.81	0.15
110-82-7	Cyclohexane	0.11	U	0.81	0.11
98-82-8	Isopropylbenzene	0.089	U	0.81	0.089
591-78-6	2-Hexanone	0.11	U	8.1	0.11
1634-04-4	MTBE	0.089	U	0.81	0.089
76-13-1	Freon TF	0.089	U	0.81	0.089
79-20-9	Methyl acetate	0.26	U	0.81	0.26
123-91-1	1,4-Dioxane	10	UJ	41	10
79-01-6	Trichloroethene	0.097	U	0.81	0.097
108-88-3	Toluene	0.20	J	0.81	0.11
10061-02-6	trans-1,3-Dichloropropene	0.081	UJ	0.81	0.081
108-10-1	4-Methyl-2-pentanone	0.16	U	8.1	0.16
10061-01-5	cis-1,3-Dichloropropene	0.11	U	0.81	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) | Lab Sample ID: 460-49238-1

Matrix: Solid | Lab File ID: k08657.d

Analysis Method: 8260B | Date Collected: 01/08/2013 10:00

Sample wt/vol: 7.16(g) | Date Analyzed: 01/16/2013 09:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 13.9 | Level: (low/med) Low

Analysis Batch No.: 143364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.081	U	0.81	0.081
541-73-1	1,3-Dichlorobenzene	0.13	U	0.81	0.13
106-46-7	1,4-Dichlorobenzene	0.089	U	0.81	0.089
120-82-1	1,2,4-Trichlorobenzene	0.15	U	0.81	0.15
87-61-6	1,2,3-Trichlorobenzene	0.13	U	0.81	0.13
78-87-5	1,2-Dichloropropane	0.12	U	0.81	0.12
108-87-2	Methylcyclohexane	0.081	U	0.81	0.081
127-18-4	Tetrachloroethene	0.097	U	0.81	0.097
96-12-8	1,2-Dibromo-3-Chloropropane	0.36	U	0.81	0.36
79-34-5	1,1,2,2-Tetrachloroethane	0.073	U	0.81	0.073
79-00-5	1,1,2-Trichloroethane	0.11	U	0.81	0.11
124-48-1	Dibromochloromethane	0.081	U	0.81	0.081
106-93-4	1,2-Dibromoethane	0.12	U	0.81	0.12
75-71-8	Dichlorodifluoromethane	0.18	U	0.81	0.18
74-97-5	Bromochloromethane	0.089	U	0.81	0.089
75-27-4	Bromodichloromethane	0.26	U	0.81	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
460-00-4	Bromofluorobenzene	110		70-130

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) | Lab Sample ID: 460-49238-1

Matrix: Solid | Lab File ID: u83324.d

Analysis Method: 8270C | Date Collected: 01/08/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/10/2013 09:08

Sample wt/vol: 15.02(g) | Date Analyzed: 01/11/2013 13:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 142879 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	51	U	380	51
95-57-8	2-Chlorophenol	50	U	380	50
95-48-7	2-Methylphenol	65	U	380	65
106-44-5	4-Methylphenol	75	U X	380	75
100-52-7	Benzaldehyde	45	U J	380	45
98-86-2	Acetophenone	59	U	380	59
111-44-4	Bis(2-chloroethyl)ether	5.2	U	38	5.2
108-60-1	2,2'-oxybis[1-chloropropane]	42	U	380	42
621-64-7	N-Nitrosodi-n-propylamine	6.4	U	38	6.4
98-95-3	Nitrobenzene	5.4	U	38	5.4
67-72-1	Hexachloroethane	4.3	U	38	4.3
78-59-1	Isophorone	46	U	380	46
88-75-5	2-Nitrophenol	43	U	380	43
105-67-9	2,4-Dimethylphenol	95	U	380	95
120-83-2	2,4-Dichlorophenol	56	U	380	56
111-91-1	Bis(2-chloroethoxy)methane	50	U	380	50
91-20-3	Naphthalene	44	U	380	44
106-47-8	4-Chloroaniline	100	U	380	100
87-68-3	Hexachlorobutadiene	9.4	U	78	9.4
105-60-2	Caprolactam	88	U	380	88
59-50-7	4-Chloro-3-methylphenol	58	U	380	58
91-57-6	2-Methylnaphthalene	49	U	380	49
118-74-1	Hexachlorobenzene	5.2	U	38	5.2
77-47-4	Hexachlorocyclopentadiene	45	U	380	45
88-06-2	2,4,6-Trichlorophenol	45	U	380	45
95-95-4	2,4,5-Trichlorophenol	50	U	380	50
92-52-4	Diphenyl	51	U	380	51
91-58-7	2-Chloronaphthalene	43	U	380	43
88-74-4	2-Nitroaniline	160	U	780	160
606-20-2	2,6-Dinitrotoluene	12	U	78	12
131-11-3	Dimethyl phthalate	45	U	380	45
208-96-8	Acenaphthylene	45	U	380	45
99-09-2	3-Nitroaniline	140	U	780	140
83-32-9	Acenaphthene	56	U	380	56

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) | Lab Sample ID: 460-49238-1

Matrix: Solid | Lab File ID: u83324.d

Analysis Method: 8270C | Date Collected: 01/08/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/10/2013 09:08

Sample wt/vol: 15.02(g) | Date Analyzed: 01/11/2013 13:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 142879 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	250	U	1200	250
51-28-5	2,4-Dinitrophenol	220	U	1200	220
132-64-9	Dibenzofuran	45	U	380	45
84-66-2	Diethyl phthalate	46	U	380	46
86-73-7	Fluorene	49	U	380	49
206-44-0	Fluoranthene	51	U	380	51
84-74-2	Di-n-butyl phthalate	47	U	380	47
121-14-2	2,4-Dinitrotoluene	13	U	78	13
7005-72-3	4-Chlorophenyl phenyl ether	45	U	380	45
100-01-6	4-Nitroaniline	120	U	780	120
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1200	100
101-55-3	4-Bromophenyl phenyl ether	38	U	380	38
1912-24-9	Atrazine	59	U	380	59
120-12-7	Anthracene	47	U	380	47
86-74-8	Carbazole	45	U	380	45
85-01-8	Phenanthrene	49	U	380	49
87-86-5	Pentachlorophenol	110	U	1200	110
129-00-0	Pyrene	32	U	380	32
218-01-9	Chrysene	45	U	380	45
207-08-9	Benzo[k]fluoranthene	2.9	U	38	2.9
191-24-2	Benzo[g,h,i]perylene	28	U	380	28
205-99-2	Benzo[b]fluoranthene	2.4	U	38	2.4
50-32-8	Benzo[a]pyrene	2.7	U	38	2.7
56-55-3	Benzo[a]anthracene	2.7	U	38	2.7
86-30-6	N-Nitrosodiphenylamine	38	U	380	38
85-68-7	Butyl benzyl phthalate	35	U	380	35
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	380	130
117-84-0	Di-n-octyl phthalate	24	U	380	24
193-39-5	Indeno[1,2,3-cd]pyrene	7.1	U	38	7.1
53-70-3	Dibenz(a,h)anthracene	4.8	U	38	4.8
91-94-1	3,3'-Dichlorobenzidine	130	U	780	130
95-94-3	1,2,4,5-Tetrachlorobenzene	52	U	380	52
58-90-2	2,3,4,6-Tetrachlorophenol	50	U	380	50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) | Lab Sample ID: 460-49238-1

Matrix: Solid | Lab File ID: u83324.d

Analysis Method: 8270C | Date Collected: 01/08/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/10/2013 09:08

Sample wt/vol: 15.02(g) | Date Analyzed: 01/11/2013 13:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 142879 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	51		38-105
4165-62-2	Phenol-d5	81		41-118
1718-51-0	Terphenyl-d14	79		16-151
118-79-6	2,4,6-Tribromophenol	69		10-120
367-12-4	2-Fluorophenol	62		37-125
321-60-8	2-Fluorobiphenyl	52		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: SB-32 (64-66) | Lab Sample ID: 460-49238-1

Matrix: Solid | Lab File ID: u83324.d

Analysis Method: 8270C | Date Collected: 01/08/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/10/2013 09:08

Sample wt/vol: 15.02(g) | Date Analyzed: 01/11/2013 13:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 142879 | Units: ug/Kg

Number TICs Found: 5 | TIC Result Total: 2550

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown-1	4.60	490	J
	Unknown Alkane-1	10.68	390	J
	Unknown Alkane-2	11.44	520	J
	Unknown Alkane-3	12.29	710	J
	Unknown-2	13.22	440	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: o68921.d

Analysis Method: 8260B | Date Collected: 01/10/2013 10:00

Sample wt/vol: 8.38(g) | Date Analyzed: 01/15/2013 01:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.12	U	0.76	0.12
74-83-9	Bromomethane	0.33	U	0.76	0.33
75-01-4	Vinyl chloride	0.26	U	0.76	0.26
75-00-3	Chloroethane	0.25	U	0.76	0.25
75-09-2	Methylene Chloride	~~0.30~~ 0.76	~~J B~~ U	0.76	0.11
67-64-1	Acetone	~~5.9~~ 7.6	~~J B~~ U	7.6	1.3
75-15-0	Carbon disulfide	3.6		0.76	0.11
75-69-4	Trichlorofluoromethane	0.12	U	0.76	0.12
75-35-4	1,1-Dichloroethene	0.14	U	0.76	0.14
75-34-3	1,1-Dichloroethane	0.084	U	0.76	0.084
156-60-5	trans-1,2-Dichloroethene	0.28	J	0.76	0.099
156-59-2	cis-1,2-Dichloroethene	1.9		0.76	0.084
67-66-3	Chloroform	0.18	U	0.76	0.18
78-93-3	2-Butanone	4.6	J	7.6	0.48
107-06-2	1,2-Dichloroethane	0.14	U	0.76	0.14
71-55-6	1,1,1-Trichloroethane	0.099	U	0.76	0.099
56-23-5	Carbon tetrachloride	0.11	U	0.76	0.11
71-43-2	Benzene	4.1		0.76	0.11
75-25-2	Bromoform	0.13	U	0.76	0.13
100-42-5	Styrene	0.21	U	0.76	0.21
179601-23-1	m&p-Xylene	0.55	J	1.5	0.45
95-47-6	o-Xylene	0.32	J	0.76	0.14
100-41-4	Ethylbenzene	0.79		0.76	0.13
108-90-7	Chlorobenzene	0.14	U	0.76	0.14
110-82-7	Cyclohexane	0.099	U	0.76	0.099
98-82-8	Isopropylbenzene	0.084	U	0.76	0.084
591-78-6	2-Hexanone	0.099	U	7.6	0.099
1634-04-4	MTBE	0.084	U	0.76	0.084
76-13-1	Freon TF	0.084	U	0.76	0.084
79-20-9	Methyl acetate	0.24	U	0.76	0.24
123-91-1	1,4-Dioxane	9.7	UJ	38	9.7
79-01-6	Trichloroethene	0.37	J	0.76	0.092
108-88-3	Toluene	0.24	J	0.76	0.11
10061-02-6	trans-1,3-Dichloropropene	0.076	U	0.76	0.076
108-10-1	4-Methyl-2-pentanone	0.15	U	7.6	0.15
10061-01-5	cis-1,3-Dichloropropene	0.11	U	0.76	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: o68921.d

Analysis Method: 8260B | Date Collected: 01/10/2013 10:00

Sample wt/vol: 8.38(g) | Date Analyzed: 01/15/2013 01:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.076	U	0.76	0.076
541-73-1	1,3-Dichlorobenzene	0.12	U	0.76	0.12
106-46-7	1,4-Dichlorobenzene	0.084	U	0.76	0.084
120-82-1	1,2,4-Trichlorobenzene	0.14	U	0.76	0.14
87-61-6	1,2,3-Trichlorobenzene	0.12	U	0.76	0.12
78-87-5	1,2-Dichloropropane	0.11	U	0.76	0.11
108-87-2	Methylcyclohexane	0.076	U	0.76	0.076
127-18-4	Tetrachloroethene	0.092	U	0.76	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	0.34	U	0.76	0.34
79-34-5	1,1,2,2-Tetrachloroethane	0.069	U	0.76	0.069
79-00-5	1,1,2-Trichloroethane	0.11	U	0.76	0.11
124-48-1	Dibromochloromethane	0.076	U	0.76	0.076
106-93-4	1,2-Dibromoethane	0.11	U	0.76	0.11
75-71-8	Dichlorodifluoromethane	0.17	U	0.76	0.17
74-97-5	Bromochloromethane	0.084	U	0.76	0.084
75-27-4	Bromodichloromethane	0.24	U	0.76	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130
460-00-4	Bromofluorobenzene	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: o68921.d

Analysis Method: 8260B | Date Collected: 01/10/2013 10:00

Sample wt/vol: 8.38(g) | Date Analyzed: 01/15/2013 01:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 6.8

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
91-20-3	Naphthalene	13.47	6.8	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: o68922.d

Analysis Method: 8260B | Date Collected: 01/10/2013 12:00

Sample wt/vol: 7.04(g) | Date Analyzed: 01/15/2013 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.3 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.13	U	0.78	0.13
74-83-9	Bromomethane	0.34	U	0.78	0.34
75-01-4	Vinyl chloride	0.27	U	0.78	0.27
75-00-3	Chloroethane	0.26	U	0.78	0.26
75-09-2	Methylene Chloride	~~0.20~~ 0.78	~~J B~~ U	0.78	0.12
67-64-1	Acetone	~~5.3~~ 7.8	~~J B~~ U	7.8	1.3
75-15-0	Carbon disulfide	0.13	J	0.78	0.12
75-69-4	Trichlorofluoromethane	0.13	U	0.78	0.13
75-35-4	1,1-Dichloroethene	0.15	U	0.78	0.15
75-34-3	1,1-Dichloroethane	0.086	U	0.78	0.086
156-60-5	trans-1,2-Dichloroethene	0.16	J	0.78	0.10
156-59-2	cis-1,2-Dichloroethene	0.27	J	0.78	0.086
67-66-3	Chloroform	0.19	U	0.78	0.19
78-93-3	2-Butanone	3.7	J	7.8	0.49
107-06-2	1,2-Dichloroethane	0.14	U	0.78	0.14
71-55-6	1,1,1-Trichloroethane	0.10	U	0.78	0.10
56-23-5	Carbon tetrachloride	0.12	U	0.78	0.12
71-43-2	Benzene	0.12	U	0.78	0.12
75-25-2	Bromoform	0.13	U	0.78	0.13
100-42-5	Styrene	0.22	U	0.78	0.22
179601-23-1	m&p-Xylene	0.46	U	1.6	0.46
95-47-6	o-Xylene	0.15	U	0.78	0.15
100-41-4	Ethylbenzene	0.13	U	0.78	0.13
108-90-7	Chlorobenzene	0.14	U	0.78	0.14
110-82-7	Cyclohexane	0.10	U	0.78	0.10
98-82-8	Isopropylbenzene	0.086	U	0.78	0.086
591-78-6	2-Hexanone	0.10	U	7.8	0.10
1634-04-4	MTBE	0.36	J	0.78	0.086
76-13-1	Freon TF	0.086	U	0.78	0.086
79-20-9	Methyl acetate	0.25	U	0.78	0.25
123-91-1	1,4-Dioxane	9.9	UJ	39	9.9
79-01-6	Trichloroethene	0.57	J	0.78	0.094
108-88-3	Toluene	0.13	J	0.78	0.11
10061-02-6	trans-1,3-Dichloropropene	0.078	U	0.78	0.078
108-10-1	4-Methyl-2-pentanone	0.16	U	7.8	0.16
10061-01-5	cis-1,3-Dichloropropene	0.11	U	0.78	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: o68922.d

Analysis Method: 8260B | Date Collected: 01/10/2013 12:00

Sample wt/vol: 7.04(g) | Date Analyzed: 01/15/2013 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.3 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.078	U	0.78	0.078
541-73-1	1,3-Dichlorobenzene	0.13	U	0.78	0.13
106-46-7	1,4-Dichlorobenzene	0.086	U	0.78	0.086
120-82-1	1,2,4-Trichlorobenzene	0.15	U	0.78	0.15
87-61-6	1,2,3-Trichlorobenzene	0.13	U	0.78	0.13
78-87-5	1,2-Dichloropropane	0.12	U	0.78	0.12
108-87-2	Methylcyclohexane	0.078	U	0.78	0.078
127-18-4	Tetrachloroethene	2.4		0.78	0.094
96-12-8	1,2-Dibromo-3-Chloropropane	0.34	U	0.78	0.34
79-34-5	1,1,2,2-Tetrachloroethane	0.070	U	0.78	0.070
79-00-5	1,1,2-Trichloroethane	0.11	U	0.78	0.11
124-48-1	Dibromochloromethane	0.078	U	0.78	0.078
106-93-4	1,2-Dibromoethane	0.12	U	0.78	0.12
75-71-8	Dichlorodifluoromethane	0.17	U	0.78	0.17
74-97-5	Bromochloromethane	0.086	U	0.78	0.086
75-27-4	Bromodichloromethane	0.25	U	0.78	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
460-00-4	Bromofluorobenzene	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: o68922.d

Analysis Method: 8260B | Date Collected: 01/10/2013 12:00

Sample wt/vol: 7.04(g) | Date Analyzed: 01/15/2013 01:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.3 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) Lab Sample ID: 460-49385-3

Matrix: Waste Lab File ID: d28253.d

Analysis Method: 8260B Date Collected: 01/11/2013 10:00

Sample wt/vol: 10.35(g) Date Analyzed: 01/16/2013 11:46

Soil Aliquot Vol: 5 (mL) Dilution Factor: 2500

Soil Extract Vol.: 5(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Medium

Analysis Batch No.: 143372 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	120	U	1200	120
74-83-9	Bromomethane	220	U	1200	220
75-01-4	Vinyl chloride	170	U	1200	170
75-00-3	Chloroethane	200	U	1200	200
75-09-2	Methylene Chloride	220	U	1200	220
~~67-64-1~~	~~Acetone~~	~~3200~~	~~U~~ R	~~6000~~	~~3200~~
75-15-0	Carbon disulfide	150	U	1200	150
75-69-4	Trichlorofluoromethane	180	U	1200	180
75-35-4	1,1-Dichloroethene	110	U	1200	110
75-34-3	1,1-Dichloroethane	160	U	1200	160
156-60-5	trans-1,2-Dichloroethene	160	U	1200	160
156-59-2	cis-1,2-Dichloroethene	210	U	1200	210
67-66-3	Chloroform	95	U	1200	95
78-93-3	2-Butanone	2800	U	6000	2800
107-06-2	1,2-Dichloroethane	230	U	1200	230
71-55-6	1,1,1-Trichloroethane	75	U	1200	75
56-23-5	Carbon tetrachloride	69	U	1200	69
71-43-2	Benzene	350000		1200	100
75-25-2	Bromoform	230	U J	1200	230
100-42-5	Styrene	360000		1200	140
179601-23-1	m&p-Xylene	260000		2400	300
95-47-6	o-Xylene	120000		1200	160
100-41-4	Ethylbenzene	53000		1200	120
108-90-7	Chlorobenzene	130	U	1200	130
110-82-7	Cyclohexane	190	U	1200	190
98-82-8	Isopropylbenzene	93	U	1200	93
591-78-6	2-Hexanone	600	U	6000	600
1634-04-4	MTBE	170	U	1200	170
76-13-1	Freon TF	99	U	1200	99
79-20-9	Methyl acetate	410	U	2400	410
123-91-1	1,4-Dioxane	43000	U J	60000	43000
79-01-6	Trichloroethene	110	U	1200	110
108-88-3	Toluene	500000		1200	180
10061-02-6	trans-1,3-Dichloropropene	290	U	1200	290
108-10-1	4-Methyl-2-pentanone	1200	U	6000	1200
10061-01-5	cis-1,3-Dichloropropene	220	U	1200	220

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: d28253.d

Analysis Method: 8260B | Date Collected: 01/11/2013 10:00

Sample wt/vol: 10.35(g) | Date Analyzed: 01/16/2013 11:46

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 2500

Soil Extract Vol.: 5(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Medium

Analysis Batch No.: 143372 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	250	U	1200	250
541-73-1	1,3-Dichlorobenzene	160	U	1200	160
106-46-7	1,4-Dichlorobenzene	280	U	1200	280
120-82-1	1,2,4-Trichlorobenzene	410	U	1200	410
87-61-6	1,2,3-Trichlorobenzene	620	U	1200	620
78-87-5	1,2-Dichloropropane	100	U	1200	100
108-87-2	Methylcyclohexane	160	UJ	1200	160
127-18-4	Tetrachloroethene	120	U	1200	120
96-12-8	1,2-Dibromo-3-Chloropropane	480	U	1200	480
79-34-5	1,1,2,2-Tetrachloroethane	190	U	1200	190
79-00-5	1,1,2-Trichloroethane	230	U	1200	230
124-48-1	Dibromochloromethane	240	U	1200	240
106-93-4	1,2-Dibromoethane	330	U	1200	330
75-71-8	Dichlorodifluoromethane	260	U	1200	260
74-97-5	Bromochloromethane	330	U	1200	330
75-27-4	Bromodichloromethane	150	U	1200	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	0	X	75-135
2037-26-5	Toluene-d8 (Surr)	0	X	59-150
460-00-4	Bromofluorobenzene	0	X	72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: d28253.d

Analysis Method: 8260B | Date Collected: 01/11/2013 10:00

Sample wt/vol: 10.35(g) | Date Analyzed: 01/16/2013 11:46

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 2500

Soil Extract Vol.: 5(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Medium

Analysis Batch No.: 143372 | Units: ug/Kg

Number TICs Found: 15 | TIC Result Total: 4.352e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	1,2,4-Trimethylbenzene	9.54	100000	
	C9H10 Aromatic-1	9.64	210000	J
	C9H10 Aromatic-2	9.67	100000	J
	C9H12 Aromatic-1	9.85	50000	J
	C9H8 Aromatic	10.18	990000	J
	C10H10 Aromatic	10.98	180000	J
	C10H10 Aromatic-1	11.05	53000	J
	C10H10 Aromatic-2	11.08	160000	J
91-20-3	Naphthalene	11.40	1300000	E
91-57-6	Naphthalene, 2-methyl-	12.29	590000	J N
90-12-0	Naphthalene, 1-methyl-	12.45	330000	J N
	Dimethylnaphthalene isomer	13.40	78000	J
	Dimethylnaphthalene isomer-1	13.56	79000	J
	C12H10 PAH	13.79	50000	J
	C12H8 PAH	14.34	82000	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: o68923.d

Analysis Method: 8260B | Date Collected: 01/11/2013 10:30

Sample wt/vol: 6.11(g) | Date Analyzed: 01/15/2013 02:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.9 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride 1.0 U	~~0.51~~	~~J B~~	1.0	0.15
67-64-1	Acetone	10	~~B~~ U	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	2.7	J	10	0.64
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	76		1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
179601-23-1	m&p-Xylene	0.60	U	2.0	0.60
95-47-6	o-Xylene	0.23	J	1.0	0.19
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	UJ	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	1.2		1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: o68923.d

Analysis Method: 8260B | Date Collected: 01/11/2013 10:30

Sample wt/vol: 6.11(g) | Date Analyzed: 01/15/2013 02:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.9 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.091	U	1.0	0.091
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
460-00-4	Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: o68923.d

Analysis Method: 8260B | Date Collected: 01/11/2013 10:30

Sample wt/vol: 6.11(g) | Date Analyzed: 01/15/2013 02:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.9 | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: p33837.d

Analysis Method: 8270C | Date Collected: 01/10/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.02(g) | Date Analyzed: 01/17/2013 12:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	57	U	420	57
95-57-8	2-Chlorophenol	56	U	420	56
95-48-7	2-Methylphenol	72	U	420	72
106-44-5	4-Methylphenol	83	U	420	83
100-52-7	Benzaldehyde	50	U J	420	50
98-86-2	Acetophenone	65	U	420	65
111-44-4	Bis(2-chloroethyl)ether	5.8	U	42	5.8
108-60-1	2,2'-oxybis[1-chloropropane]	47	U	420	47
621-64-7	N-Nitrosodi-n-propylamine	7.1	U X	42	7.1
98-95-3	Nitrobenzene	6.0	U	42	6.0
67-72-1	Hexachloroethane	4.7	U	42	4.7
78-59-1	Isophorone	51	U	420	51
88-75-5	2-Nitrophenol	47	U	420	47
105-67-9	2,4-Dimethylphenol	100	U	420	100
120-83-2	2,4-Dichlorophenol	62	U	420	62
111-91-1	Bis(2-chloroethoxy)methane	55	U	420	55
91-20-3	Naphthalene	49	U	420	49
106-47-8	4-Chloroaniline	110	U	420	110
87-68-3	Hexachlorobutadiene	10	U	86	10
105-60-2	Caprolactam	97	U	420	97
59-50-7	4-Chloro-3-methylphenol	64	U	420	64
91-57-6	2-Methylnaphthalene	54	U	420	54
118-74-1	Hexachlorobenzene	5.8	U	42	5.8
77-47-4	Hexachlorocyclopentadiene	50	U J	420	50
88-06-2	2,4,6-Trichlorophenol	49	U	420	49
95-95-4	2,4,5-Trichlorophenol	55	U	420	55
92-52-4	Diphenyl	57	U	420	57
91-58-7	2-Chloronaphthalene	47	U	420	47
88-74-4	2-Nitroaniline	180	U	860	180
606-20-2	2,6-Dinitrotoluene	13	U	86	13
131-11-3	Dimethyl phthalate	50	U	420	50
208-96-8	Acenaphthylene	50	U	420	50
99-09-2	3-Nitroaniline	150	U	860	150
83-32-9	Acenaphthene	62	U	420	62

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: p33837.d

Analysis Method: 8270C | Date Collected: 01/10/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.02(g) | Date Analyzed: 01/17/2013 12:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	270	U	1300	270
51-28-5	2,4-Dinitrophenol	240	U	1300	240
132-64-9	Dibenzofuran	50	U	420	50
84-66-2	Diethyl phthalate	50	U	420	50
86-73-7	Fluorene	54	U	420	54
206-44-0	Fluoranthene	56	U	420	56
84-74-2	Di-n-butyl phthalate	52	U	420	52
121-14-2	2,4-Dinitrotoluene	14	U	86	14
7005-72-3	4-Chlorophenyl phenyl ether	50	U	420	50
100-01-6	4-Nitroaniline	130	U	860	130
534-52-1	4,6-Dinitro-2-methylphenol	120	U	1300	120
101-55-3	4-Bromophenyl phenyl ether	42	U	420	42
1912-24-9	Atrazine	65	U	420	65
120-12-7	Anthracene	51	U	420	51
86-74-8	Carbazole	50	U	420	50
85-01-8	Phenanthrene	54	U	420	54
87-86-5	Pentachlorophenol	130	U	1300	130
129-00-0	Pyrene	35	U	420	35
218-01-9	Chrysene	49	U	420	49
207-08-9	Benzo[k]fluoranthene	3.2	U	42	3.2
191-24-2	Benzo[g,h,i]perylene	31	U	420	31
205-99-2	Benzo[b]fluoranthene	2.7	U	42	2.7
50-32-8	Benzo[a]pyrene	3.0	U	42	3.0
56-55-3	Benzo[a]anthracene	3.0	U	42	3.0
86-30-6	N-Nitrosodiphenylamine	42	U	420	42
85-68-7	Butyl benzyl phthalate	39	U	420	39
117-81-7	Bis(2-ethylhexyl) phthalate	140	U	420	140
117-84-0	Di-n-octyl phthalate	27	U	420	27
193-39-5	Indeno[1,2,3-cd]pyrene	7.9	U	42	7.9
53-70-3	Dibenz(a,h)anthracene	5.3	U	42	5.3
91-94-1	3,3'-Dichlorobenzidine	150	U	860	150
95-94-3	1,2,4,5-Tetrachlorobenzene	57	U J	420	57
58-90-2	2,3,4,6-Tetrachlorophenol	55	U	420	55

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: p33837.d

Analysis Method: 8270C | Date Collected: 01/10/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.02(g) | Date Analyzed: 01/17/2013 12:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		38-105
4165-62-2	Phenol-d5	87		41-118
1718-51-0	Terphenyl-d14	91		16-151
118-79-6	2,4,6-Tribromophenol	67		10-120
367-12-4	2-Fluorophenol	80		37-125
321-60-8	2-Fluorobiphenyl	71		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (33-35) | Lab Sample ID: 460-49385-1

Matrix: Solid | Lab File ID: p33837.d

Analysis Method: 8270C | Date Collected: 01/10/2013 10:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.02(g) | Date Analyzed: 01/17/2013 12:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 480

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.80	480	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: p33834.d

Analysis Method: 8270C | Date Collected: 01/10/2013 12:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.00(g) | Date Analyzed: 01/17/2013 10:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	49	U	360	49
95-57-8	2-Chlorophenol	48	U	360	48
95-48-7	2-Methylphenol	62	U	360	62
106-44-5	4-Methylphenol	72	U	360	72
100-52-7	Benzaldehyde	43	U J	360	43
98-86-2	Acetophenone	56	U	360	56
111-44-4	Bis(2-chloroethyl)ether	5.0	U	36	5.0
108-60-1	2,2'-oxybis[1-chloropropane]	40	U	360	40
621-64-7	N-Nitrosodi-n-propylamine	6.1	U	36	6.1
98-95-3	Nitrobenzene	5.2	U	36	5.2
67-72-1	Hexachloroethane	4.1	U	36	4.1
78-59-1	Isophorone	44	U	360	44
88-75-5	2-Nitrophenol	41	U	360	41
105-67-9	2,4-Dimethylphenol	90	U	360	90
120-83-2	2,4-Dichlorophenol	53	U	360	53
111-91-1	Bis(2-chloroethoxy)methane	47	U	360	47
91-20-3	Naphthalene	42	U	360	42
106-47-8	4-Chloroaniline	97	U	360	97
87-68-3	Hexachlorobutadiene	8.9	U	74	8.9
105-60-2	Caprolactam	84	U	360	84
59-50-7	4-Chloro-3-methylphenol	55	U	360	55
91-57-6	2-Methylnaphthalene	47	U	360	47
118-74-1	Hexachlorobenzene	5.0	U	36	5.0
77-47-4	Hexachlorocyclopentadiene	43	U J	360	43
88-06-2	2,4,6-Trichlorophenol	43	U	360	43
95-95-4	2,4,5-Trichlorophenol	47	U	360	47
92-52-4	Diphenyl	49	U	360	49
91-58-7	2-Chloronaphthalene	41	U	360	41
88-74-4	2-Nitroaniline	150	U	740	150
606-20-2	2,6-Dinitrotoluene	11	U	74	11
131-11-3	Dimethyl phthalate	43	U	360	43
208-96-8	Acenaphthylene	43	U	360	43
99-09-2	3-Nitroaniline	130	U	740	130
83-32-9	Acenaphthene	53	U	360	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: p33834.d

Analysis Method: 8270C | Date Collected: 01/10/2013 12:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.00(g) | Date Analyzed: 01/17/2013 10:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	230	U	1100	230
51-28-5	2,4-Dinitrophenol	210	U	1100	210
132-64-9	Dibenzofuran	43	U	360	43
84-66-2	Diethyl phthalate	43	U	360	43
86-73-7	Fluorene	47	U	360	47
206-44-0	Fluoranthene	49	U	360	49
84-74-2	Di-n-butyl phthalate	45	U	360	45
121-14-2	2,4-Dinitrotoluene	12	U	74	12
7005-72-3	4-Chlorophenyl phenyl ether	43	U	360	43
100-01-6	4-Nitroaniline	110	U	740	110
534-52-1	4,6-Dinitro-2-methylphenol	99	U	1100	99
101-55-3	4-Bromophenyl phenyl ether	36	U	360	36
1912-24-9	Atrazine	56	U	360	56
120-12-7	Anthracene	44	U	360	44
86-74-8	Carbazole	43	U	360	43
85-01-8	Phenanthrene	46	U	360	46
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	31	U	360	31
218-01-9	Chrysene	43	U	360	43
207-08-9	Benzo[k]fluoranthene	2.8	U	36	2.8
191-24-2	Benzo[g,h,i]perylene	27	U	360	27
205-99-2	Benzo[b]fluoranthene	2.3	U	36	2.3
50-32-8	Benzo[a]pyrene	2.6	U	36	2.6
56-55-3	Benzo[a]anthracene	2.5	U	36	2.5
86-30-6	N-Nitrosodiphenylamine	36	U	360	36
85-68-7	Butyl benzyl phthalate	33	U	360	33
117-81-7	Bis(2-ethylhexyl) phthalate	120	U	360	120
117-84-0	Di-n-octyl phthalate	23	U	360	23
193-39-5	Indeno[1,2,3-cd]pyrene	6.8	U	36	6.8
53-70-3	Dibenz(a,h)anthracene	4.6	U	36	4.6
91-94-1	3,3'-Dichlorobenzidine	130	U	740	130
95-94-3	1,2,4,5-Tetrachlorobenzene	49	U J	360	49
58-90-2	2,3,4,6-Tetrachlorophenol	47	U	360	47

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: p33834.d

Analysis Method: 8270C | Date Collected: 01/10/2013 12:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.00(g) | Date Analyzed: 01/17/2013 10:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		38-105
4165-62-2	Phenol-d5	93		41-118
1718-51-0	Terphenyl-d14	92		16-151
118-79-6	2,4,6-Tribromophenol	73		10-120
367-12-4	2-Fluorophenol	85		37-125
321-60-8	2-Fluorobiphenyl	75		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-28 (65-66) | Lab Sample ID: 460-49385-2

Matrix: Solid | Lab File ID: p33834.d

Analysis Method: 8270C | Date Collected: 01/10/2013 12:00

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.00(g) | Date Analyzed: 01/17/2013 10:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 490

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.80	490	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: z16265.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:00

Extract. Method: 3580A | Date Extracted: 01/18/2013 22:49

Sample wt/vol: 1.04(g) | Date Analyzed: 01/21/2013 01:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 100

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144043 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	4800000	U	4800000	4800000
95-57-8	2-Chlorophenol	4800000	U	4800000	4800000
95-48-7	2-Methylphenol	4800000	U	4800000	4800000
106-44-5	4-Methylphenol	4800000	U	4800000	4800000
100-52-7	Benzaldehyde	4800000	UJ	4800000	4800000
98-86-2	Acetophenone	4800000	U	4800000	4800000
111-44-4	Bis(2-chloroethyl)ether	480000	U	480000	480000
108-60-1	2,2'-oxybis[1-chloropropane]	4800000	U	4800000	4800000
621-64-7	N-Nitrosodi-n-propylamine	480000	U	480000	480000
98-95-3	Nitrobenzene	480000	U	480000	480000
67-72-1	Hexachloroethane	480000	U	480000	480000
78-59-1	Isophorone	4800000	U	4800000	4800000
88-75-5	2-Nitrophenol	4800000	U	4800000	4800000
105-67-9	2,4-Dimethylphenol	4800000	U	4800000	4800000
120-83-2	2,4-Dichlorophenol	4800000	U	4800000	4800000
111-91-1	Bis(2-chloroethoxy)methane	4800000	U	4800000	4800000
91-20-3	Naphthalene	100000000		4800000	4800000
106-47-8	4-Chloroaniline	4800000	U	4800000	4800000
87-68-3	Hexachlorobutadiene	960000	U	960000	960000
105-60-2	Caprolactam	4800000	U	4800000	4800000
59-50-7	4-Chloro-3-methylphenol	4800000	U	4800000	4800000
91-57-6	2-Methylnaphthalene	43000000		4800000	4800000
118-74-1	Hexachlorobenzene	480000	U	480000	480000
77-47-4	Hexachlorocyclopentadiene	4800000	U	4800000	4800000
88-06-2	2,4,6-Trichlorophenol	4800000	U	4800000	4800000
95-95-4	2,4,5-Trichlorophenol	4800000	U	4800000	4800000
92-52-4	Diphenyl	4800000	U	4800000	4800000
91-58-7	2-Chloronaphthalene	4800000	U	4800000	4800000
88-74-4	2-Nitroaniline	9600000	U	9600000	9600000
606-20-2	2,6-Dinitrotoluene	960000	U	960000	960000
131-11-3	Dimethyl phthalate	4800000	U	4800000	4800000
208-96-8	Acenaphthylene	14000000		4800000	4800000
99-09-2	3-Nitroaniline	9600000	U	9600000	9600000
83-32-9	Acenaphthene	4800000	U	4800000	4800000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: z16265.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:00

Extract. Method: 3580A | Date Extracted: 01/18/2013 22:49

Sample wt/vol: 1.04(g) | Date Analyzed: 01/21/2013 01:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 100

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144043 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	19000000	U	19000000	19000000
51-28-5	2,4-Dinitrophenol	19000000	UJ	19000000	19000000
132-64-9	Dibenzofuran	4800000	U	4800000	4800000
84-66-2	Diethyl phthalate	4800000	U	4800000	4800000
86-73-7	Fluorene	6900000		4800000	4800000
206-44-0	Fluoranthene	4900000		4800000	4800000
84-74-2	Di-n-butyl phthalate	4800000	U	4800000	4800000
121-14-2	2,4-Dinitrotoluene	960000	U	960000	960000
7005-72-3	4-Chlorophenyl phenyl ether	4800000	U	4800000	4800000
100-01-6	4-Nitroaniline	9600000	U	9600000	9600000
534-52-1	4,6-Dinitro-2-methylphenol	19000000	U	19000000	19000000
101-55-3	4-Bromophenyl phenyl ether	4800000	U	4800000	4800000
1912-24-9	Atrazine	4800000	U	4800000	4800000
120-12-7	Anthracene	4800000		4800000	4800000
86-74-8	Carbazole	4800000	U	4800000	4800000
85-01-8	Phenanthrene	18000000		4800000	4800000
87-86-5	Pentachlorophenol	19000000	U	19000000	19000000
129-00-0	Pyrene	8100000		4800000	4800000
218-01-9	Chrysene	4800000	U	4800000	4800000
207-08-9	Benzo[k]fluoranthene	550000		480000	480000
191-24-2	Benzo[g,h,i]perylene	4800000	U	4800000	4800000
205-99-2	Benzo[b]fluoranthene	1600000		480000	480000
50-32-8	Benzo[a]pyrene	2300000		480000	480000
56-55-3	Benzo[a]anthracene	2900000		480000	480000
86-30-6	N-Nitrosodiphenylamine	4800000	U	4800000	4800000
85-68-7	Butyl benzyl phthalate	4800000	U	4800000	4800000
117-81-7	Bis(2-ethylhexyl) phthalate	4800000	U	4800000	4800000
117-84-0	Di-n-octyl phthalate	4800000	U	4800000	4800000
193-39-5	Indeno[1,2,3-cd]pyrene	530000		480000	480000
53-70-3	Dibenz(a,h)anthracene	480000	U	480000	480000
91-94-1	3,3'-Dichlorobenzidine	9600000	U	9600000	9600000
95-94-3	1,2,4,5-Tetrachlorobenzene	4800000	U	4800000	4800000
58-90-2	2,3,4,6-Tetrachlorophenol	4800000	U	4800000	4800000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: z16265.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:00

Extract. Method: 3580A | Date Extracted: 01/18/2013 22:49

Sample wt/vol: 1.04(g) | Date Analyzed: 01/21/2013 01:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 100

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144043 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	0	D	70-130
4165-62-2	Phenol-d5	0	D	70-130
1718-51-0	Terphenyl-d14	0	D	70-130
118-79-6	2,4,6-Tribromophenol	0	D	70-130
367-12-4	2-Fluorophenol	0	D	70-130
321-60-8	2-Fluorobiphenyl	0	D	70-130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (80-85) | Lab Sample ID: 460-49385-3

Matrix: Waste | Lab File ID: z16265.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:00

Extract. Method: 3580A | Date Extracted: 01/18/2013 22:49

Sample wt/vol: 1.04(g) | Date Analyzed: 01/21/2013 01:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 100

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144043 | Units: ug/Kg

Number TICs Found: 17 | TIC Result Total: 1.887e+008

CAS NO.	COMPOUND NAME	RT	RESULT	Q
108-88-3	Toluene	2.17	14000000	J N
100-42-5	Styrene	3.26	19000000	J N
	C10H12 Aromatic-1	4.17	20000000	J
	Ethenylmethylbenzene isomer	4.21	4700000	J
95-13-6	Indene	4.60	38000000	J N
	C10H12 Aromatic-2	4.95	4200000	J
	C10H10 Aromatic-1	5.37	8300000	J
	C10H10 Aromatic-2	5.40	7900000	J
90-12-0	Naphthalene, 1-methyl-	6.43	24000000	J N
	Dimethylnaphthalene isomer-1	6.95	8400000	J
575-41-7	1,3-Dimethylnaphthalene	7.03	10000000	
	Unknown	7.05	5400000	J
827-54-3	Naphthalene, 2-ethenyl-	7.09	5100000	J N
	Dimethylnaphthalene isomer-2	7.14	4800000	J
	C15H12 PAH-1	9.32	4100000	J
	C15H12 PAH-2	9.34	4500000	J
	C15H10/C15H12 PAHs	9.42	6300000	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: p33838.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:30

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.01(g) | Date Analyzed: 01/17/2013 12:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	55	U	410	55
95-57-8	2-Chlorophenol	54	U	410	54
95-48-7	2-Methylphenol	69	U	410	69
106-44-5	4-Methylphenol	80	U	410	80
100-52-7	Benzaldehyde	48	UJ	410	48
98-86-2	Acetophenone	63	U	410	63
111-44-4	Bis(2-chloroethyl)ether	5.6	U	41	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	45	U	410	45
621-64-7	N-Nitrosodi-n-propylamine	6.8	UX	41	6.8
98-95-3	Nitrobenzene	5.8	U	41	5.8
67-72-1	Hexachloroethane	4.5	U	41	4.5
78-59-1	Isophorone	49	U	410	49
88-75-5	2-Nitrophenol	45	U	410	45
105-67-9	2,4-Dimethylphenol	100	U	410	100
120-83-2	2,4-Dichlorophenol	60	U	410	60
111-91-1	Bis(2-chloroethoxy)methane	53	U	410	53
91-20-3	Naphthalene	370	J	410	47
106-47-8	4-Chloroaniline	110	U	410	110
87-68-3	Hexachlorobutadiene	9.9	U	83	9.9
105-60-2	Caprolactam	94	U	410	94
59-50-7	4-Chloro-3-methylphenol	61	U	410	61
91-57-6	2-Methylnaphthalene	210	J	410	52
118-74-1	Hexachlorobenzene	5.6	U	41	5.6
77-47-4	Hexachlorocyclopentadiene	48	UJ	410	48
88-06-2	2,4,6-Trichlorophenol	48	U	410	48
95-95-4	2,4,5-Trichlorophenol	53	U	410	53
92-52-4	Diphenyl	55	U	410	55
91-58-7	2-Chloronaphthalene	45	U	410	45
88-74-4	2-Nitroaniline	170	U	830	170
606-20-2	2,6-Dinitrotoluene	12	U	83	12
131-11-3	Dimethyl phthalate	48	U	410	48
208-96-8	Acenaphthylene	48	U	410	48
99-09-2	3-Nitroaniline	140	U	830	140
83-32-9	Acenaphthene	59	U	410	59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: p33838.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:30

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.01(g) | Date Analyzed: 01/17/2013 12:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	260	U	1200	260
51-28-5	2,4-Dinitrophenol	230	U	1200	230
132-64-9	Dibenzofuran	48	U	410	48
84-66-2	Diethyl phthalate	49	U	410	49
86-73-7	Fluorene	52	U	410	52
206-44-0	Fluoranthene	54	U	410	54
84-74-2	Di-n-butyl phthalate	50	U	410	50
121-14-2	2,4-Dinitrotoluene	13	U	83	13
7005-72-3	4-Chlorophenyl phenyl ether	48	U	410	48
100-01-6	4-Nitroaniline	130	U	830	130
534-52-1	4,6-Dinitro-2-methylphenol	110	U	1200	110
101-55-3	4-Bromophenyl phenyl ether	40	U	410	40
1912-24-9	Atrazine	63	U	410	63
120-12-7	Anthracene	50	U	410	50
86-74-8	Carbazole	48	U	410	48
85-01-8	Phenanthrene	160	J	410	52
87-86-5	Pentachlorophenol	120	U	1200	120
129-00-0	Pyrene	70	J	410	34
218-01-9	Chrysene	48	U	410	48
207-08-9	Benzo[k]fluoranthene	3.1	U	41	3.1
191-24-2	Benzo[g,h,i]perylene	30	U	410	30
205-99-2	Benzo[b]fluoranthene	2.6	U	41	2.6
50-32-8	Benzo[a]pyrene	2.9	U	41	2.9
56-55-3	Benzo[a]anthracene	2.8	U	41	2.8
86-30-6	N-Nitrosodiphenylamine	40	U	410	40
85-68-7	Butyl benzyl phthalate	37	U	410	37
117-81-7	Bis(2-ethylhexyl) phthalate	140	U	410	140
117-84-0	Di-n-octyl phthalate	26	U	410	26
193-39-5	Indeno[1,2,3-cd]pyrene	7.6	U	41	7.6
53-70-3	Dibenz(a,h)anthracene	5.1	U	41	5.1
91-94-1	3,3'-Dichlorobenzidine	140	U	830	140
95-94-3	1,2,4,5-Tetrachlorobenzene	55	U J	410	55
58-90-2	2,3,4,6-Tetrachlorophenol	53	U	410	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: p33838.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:30

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.01(g) | Date Analyzed: 01/17/2013 12:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		38-105
4165-62-2	Phenol-d5	82		41-118
1718-51-0	Terphenyl-d14	89		16-151
118-79-6	2,4,6-Tribromophenol	67		10-120
367-12-4	2-Fluorophenol	77		37-125
321-60-8	2-Fluorobiphenyl	74		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: SB-27 (90-92) | Lab Sample ID: 460-49385-4

Matrix: Solid | Lab File ID: p33838.d

Analysis Method: 8270C | Date Collected: 01/11/2013 10:30

Extract. Method: 3541 | Date Extracted: 01/14/2013 08:38

Sample wt/vol: 15.01(g) | Date Analyzed: 01/17/2013 12:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 143599 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 430

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.80	430	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) | Lab Sample ID: 460-49593-1

Matrix: Solid | Lab File ID: d28436.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:00

Sample wt/vol: 6.65(g) | Date Analyzed: 01/23/2013 15:24

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 2000

Soil Extract Vol.: 5(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 20.1 | Level: (low/med) Medium

Analysis Batch No.: 144287 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	180	U	1900	180
74-83-9	Bromomethane	340	U	1900	340
75-01-4	Vinyl chloride	270	U	1900	270
75-00-3	Chloroethane	320	U	1900	320
75-09-2	Methylene Chloride	340	U	1900	340
~~67-64-1~~	~~Acetone~~	~~5000~~	~~U~~ R	~~9400~~	~~5000~~
75-15-0	Carbon disulfide	240	U	1900	240
75-69-4	Trichlorofluoromethane	270	U	1900	270
75-35-4	1,1-Dichloroethene	170	U	1900	170
75-34-3	1,1-Dichloroethane	250	U	1900	250
156-60-5	trans-1,2-Dichloroethene	240	U	1900	240
156-59-2	cis-1,2-Dichloroethene	330	U	1900	330
67-66-3	Chloroform	150	U	1900	150
78-93-3	2-Butanone	4400	U	9400	4400
107-06-2	1,2-Dichloroethane	360	U	1900	360
71-55-6	1,1,1-Trichloroethane	120	U	1900	120
56-23-5	Carbon tetrachloride	110	U	1900	110
71-43-2	Benzene	100000		1900	160
75-25-2	Bromoform	360	U J	1900	360
100-42-5	Styrene	280000		1900	220
179601-23-1	m&p-Xylene	310000		3800	460
95-47-6	o-Xylene	150000		1900	250
100-41-4	Ethylbenzene	150000		1900	180
108-90-7	Chlorobenzene	210	U	1900	210
110-82-7	Cyclohexane	300	U	1900	300
98-82-8	Isopropylbenzene	2700		1900	140
591-78-6	2-Hexanone	940	U	9400	940
1634-04-4	MTBE	260	U	1900	260
76-13-1	Freon TF	150	U	1900	150
79-20-9	Methyl acetate	630	U	3800	630
123-91-1	1,4-Dioxane	68000	U J	94000	68000
79-01-6	Trichloroethene	170	U	1900	170
108-88-3	Toluene	300000		1900	280
10061-02-6	trans-1,3-Dichloropropene	460	U	1900	460
108-10-1	4-Methyl-2-pentanone	1900	U	9400	1900
10061-01-5	cis-1,3-Dichloropropene	350	U	1900	350

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) | Lab Sample ID: 460-49593-1

Matrix: Solid | Lab File ID: d28436.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:00

Sample wt/vol: 6.65(g) | Date Analyzed: 01/23/2013 15:24

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 2000

Soil Extract Vol.: 5(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 20.1 | Level: (low/med) Medium

Analysis Batch No.: 144287 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	390	U	1900	390
541-73-1	1,3-Dichlorobenzene	250	U	1900	250
106-46-7	1,4-Dichlorobenzene	440	U	1900	440
120-82-1	1,2,4-Trichlorobenzene	640	U	1900	640
87-61-6	1,2,3-Trichlorobenzene	960	U	1900	960
78-87-5	1,2-Dichloropropane	160	U	1900	160
108-87-2	Methylcyclohexane	250	U	1900	250
127-18-4	Tetrachloroethene	360	J	1900	180
96-12-8	1,2-Dibromo-3-Chloropropane	750	U	1900	750
79-34-5	1,1,2,2-Tetrachloroethane	300	U	1900	300
79-00-5	1,1,2-Trichloroethane	350	U	1900	350
124-48-1	Dibromochloromethane	380	U	1900	380
106-93-4	1,2-Dibromoethane	520	U	1900	520
75-71-8	Dichlorodifluoromethane	410	U	1900	410
74-97-5	Bromochloromethane	510	U	1900	510
75-27-4	Bromodichloromethane	240	U	1900	240

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	0	X	75-135
2037-26-5	Toluene-d8 (Surr)	0	X	59-150
460-00-4	Bromofluorobenzene	0	X	72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) | Lab Sample ID: 460-49593-1

Matrix: Solid | Lab File ID: d28436.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:00

Sample wt/vol: 6.65(g) | Date Analyzed: 01/23/2013 15:24

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 2000

Soil Extract Vol.: 5(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 20.1 | Level: (low/med) Medium

Analysis Batch No.: 144287 | Units: ug/Kg

Number TICs Found: 15 | TIC Result Total: 5.339e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	C9H12 Aromatic	9.16	91000	J
95-63-6	1,2,4-Trimethylbenzene	9.54	160000	
	C9H10 Aromatic-1	9.60	77000	J
	C9H10 Aromatic-2	9.64	270000	J
	C9H10 Aromatic-3	9.67	120000	J
	C9H12 Aromatic-1	9.85	80000	J
	C9H8 Aromatic	10.18	1100000	J
	C10H12 Aromatic-1	10.48	82000	J
	C10H12 Aromatic-2	10.76	91000	J
	C10H10 Aromatic	10.98	300000	J
	C10H10 Aromatic-1	11.05	78000	J
	C10H10 Aromatic-2	11.08	260000	J
91-20-3	Naphthalene	11.40	1800000	E
91-57-6	Naphthalene, 2-methyl-	12.29	540000	J N
90-12-0	Naphthalene, 1-methyl-	12.44	290000	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: k08764.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:30

Sample wt/vol: 7.68(g) | Date Analyzed: 01/18/2013 23:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 143844 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.12	U H J	0.72	0.12
74-83-9	Bromomethane	0.31	U H J	0.72	0.31
75-01-4	Vinyl chloride	0.25	U H J	0.72	0.25
75-00-3	Chloroethane	0.24	U H J	0.72	0.24
75-09-2	Methylene Chloride	~~0.34~~ 0.72	~~J H B~~ U H J	0.72	0.11
67-64-1	Acetone	~~6.2~~ 7.2	~~J H B~~ U H J	7.2	1.2
75-15-0	Carbon disulfide	0.11	U H J	0.72	0.11
75-69-4	Trichlorofluoromethane	0.12	U H J	0.72	0.12
75-35-4	1,1-Dichloroethene	0.14	U H J	0.72	0.14
75-34-3	1,1-Dichloroethane	0.079	U H J	0.72	0.079
156-60-5	trans-1,2-Dichloroethene	0.094	U H J	0.72	0.094
156-59-2	cis-1,2-Dichloroethene	0.079	U H J	0.72	0.079
67-66-3	Chloroform	0.17	U H J	0.72	0.17
78-93-3	2-Butanone	1.8	J H	7.2	0.46
107-06-2	1,2-Dichloroethane	0.13	U H J	0.72	0.13
71-55-6	1,1,1-Trichloroethane	0.094	U H J	0.72	0.094
56-23-5	Carbon tetrachloride	0.11	U H J	0.72	0.11
71-43-2	Benzene	0.35	J H	0.72	0.11
75-25-2	Bromoform	0.12	U H J	0.72	0.12
100-42-5	Styrene	0.35	J H	0.72	0.20
179601-23-1	m&p-Xylene	0.68	J H	1.4	0.43
95-47-6	o-Xylene	0.33	J H	0.72	0.14
100-41-4	Ethylbenzene	0.33	J H	0.72	0.12
108-90-7	Chlorobenzene	0.13	U H J	0.72	0.13
110-82-7	Cyclohexane	0.094	U H J	0.72	0.094
98-82-8	Isopropylbenzene	0.079	U H J	0.72	0.079
591-78-6	2-Hexanone	0.094	U H J	7.2	0.094
1634-04-4	MTBE	0.079	U H J	0.72	0.079
76-13-1	Freon TF	0.079	U H J	0.72	0.079
79-20-9	Methyl acetate	0.23	U H J	0.72	0.23
123-91-1	1,4-Dioxane	9.2	U H J	36	9.2
79-01-6	Trichloroethene	0.087	U H J	0.72	0.087
108-88-3	Toluene	0.61	J H	0.72	0.10
10061-02-6	trans-1,3-Dichloropropene	0.072	U H J	0.72	0.072
108-10-1	4-Methyl-2-pentanone	0.14	U H J	7.2	0.14
10061-01-5	cis-1,3-Dichloropropene	0.10	U H J	0.72	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: k08764.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:30

Sample wt/vol: 7.68(g) | Date Analyzed: 01/18/2013 23:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 143844 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.072	U H J	0.72	0.072
541-73-1	1,3-Dichlorobenzene	0.12	U H J	0.72	0.12
106-46-7	1,4-Dichlorobenzene	0.079	U H J	0.72	0.079
120-82-1	1,2,4-Trichlorobenzene	0.14	U H J	0.72	0.14
87-61-6	1,2,3-Trichlorobenzene	0.12	U H J	0.72	0.12
78-87-5	1,2-Dichloropropane	0.11	U H J	0.72	0.11
108-87-2	Methylcyclohexane	0.072	U H J	0.72	0.072
127-18-4	Tetrachloroethene	0.087	U H J	0.72	0.087
96-12-8	1,2-Dibromo-3-Chloropropane	0.32	U H J	0.72	0.32
79-34-5	1,1,2,2-Tetrachloroethane	0.065	U H J	0.72	0.065
79-00-5	1,1,2-Trichloroethane	0.10	U H J	0.72	0.10
124-48-1	Dibromochloromethane	0.072	U H J	0.72	0.072
106-93-4	1,2-Dibromoethane	0.11	U H J	0.72	0.11
75-71-8	Dichlorodifluoromethane	0.16	U H J	0.72	0.16
74-97-5	Bromochloromethane	0.079	U H J	0.72	0.079
75-27-4	Bromodichloromethane	0.23	U H J	0.72	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		70-130
2037-26-5	Toluene-d8 (Surr)	86		70-130
460-00-4	Bromofluorobenzene	119		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: k08764.d

Analysis Method: 8260B | Date Collected: 01/15/2013 14:30

Sample wt/vol: 7.68(g) | Date Analyzed: 01/18/2013 23:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: 9.9 | Level: (low/med) Low

Analysis Batch No.: 143844 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 21

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
91-20-3	Naphthalene	12.37	21	JN

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) DL | Lab Sample ID: 460-49593-1 DL

Matrix: Solid | Lab File ID: p33921.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.04(g) | Date Analyzed: 01/21/2013 10:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 200

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	11000	U	82000	11000
95-57-8	2-Chlorophenol	11000	U	82000	11000
95-48-7	2-Methylphenol	14000	U	82000	14000
106-44-5	4-Methylphenol	16000	U	82000	16000
100-52-7	Benzaldehyde	9700	UJ	82000	9700
98-86-2	Acetophenone	13000	U	82000	13000
111-44-4	Bis(2-chloroethyl)ether	1100	U	8200	1100
108-60-1	2,2'-oxybis[1-chloropropane]	9100	U	82000	9100
621-64-7	N-Nitrosodi-n-propylamine	1400	U	8200	1400
98-95-3	Nitrobenzene	1200	U	8200	1200
67-72-1	Hexachloroethane	920	U	8200	920
78-59-1	Isophorone	10000	U	82000	10000
88-75-5	2-Nitrophenol	9200	U	82000	9200
105-67-9	2,4-Dimethylphenol	20000	U	82000	20000
120-83-2	2,4-Dichlorophenol	12000	U	82000	12000
111-91-1	Bis(2-chloroethoxy)methane	11000	U	82000	11000
91-20-3	Naphthalene	1000000	D	82000	9600
106-47-8	4-Chloroaniline	22000	U	82000	22000
87-68-3	Hexachlorobutadiene	2000	U	17000	2000
105-60-2	Caprolactam	19000	U	82000	19000
59-50-7	4-Chloro-3-methylphenol	12000	U	82000	12000
91-57-6	2-Methylnaphthalene	570000	D	82000	11000
118-74-1	Hexachlorobenzene	1100	U	8200	1100
77-47-4	Hexachlorocyclopentadiene	9700	U	82000	9700
88-06-2	2,4,6-Trichlorophenol	9700	U	82000	9700
95-95-4	2,4,5-Trichlorophenol	11000	U	82000	11000
92-52-4	Diphenyl	65000	J D	82000	11000
91-58-7	2-Chloronaphthalene	9200	U	82000	9200
88-74-4	2-Nitroaniline	34000	U	170000	34000
606-20-2	2,6-Dinitrotoluene	2500	U	17000	2500
131-11-3	Dimethyl phthalate	9800	U	82000	9800
208-96-8	Acenaphthylene	250000	D	82000	9800
99-09-2	3-Nitroaniline	29000	U	170000	29000
83-32-9	Acenaphthene	30000	J D	82000	12000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) DL | Lab Sample ID: 460-49593-1 DL

Matrix: Solid | Lab File ID: p33921.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.04(g) | Date Analyzed: 01/21/2013 10:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 200

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	53000	U	250000	53000
51-28-5	2,4-Dinitrophenol	47000	U	250000	47000
132-64-9	Dibenzofuran	20000	J D	82000	9700
84-66-2	Diethyl phthalate	9800	U	82000	9800
86-73-7	Fluorene	140000	D	82000	11000
206-44-0	Fluoranthene	160000	D	82000	11000
84-74-2	Di-n-butyl phthalate	10000	U	82000	10000
121-14-2	2,4-Dinitrotoluene	2700	U	17000	2700
7005-72-3	4-Chlorophenyl phenyl ether	9700	U	82000	9700
100-01-6	4-Nitroaniline	26000	U	170000	26000
534-52-1	4,6-Dinitro-2-methylphenol	23000	U	250000	23000
101-55-3	4-Bromophenyl phenyl ether	8200	U	82000	8200
1912-24-9	Atrazine	13000	U	82000	13000
120-12-7	Anthracene	130000	D	82000	10000
86-74-8	Carbazole	9800	U	82000	9800
85-01-8	Phenanthrene	500000	D	82000	11000
87-86-5	Pentachlorophenol	25000	U	250000	25000
129-00-0	Pyrene	200000	D	82000	6900
218-01-9	Chrysene	100000	D	82000	9600
207-08-9	Benzo[k]fluoranthene	17000	D	8200	630
191-24-2	Benzo[g,h,i]perylene	34000	J D	82000	6100
205-99-2	Benzo[b]fluoranthene	51000	D	8200	520
50-32-8	Benzo[a]pyrene	79000	D	8200	580
56-55-3	Benzo[a]anthracene	100000	D	8200	580
86-30-6	N-Nitrosodiphenylamine	8100	U	82000	8100
85-68-7	Butyl benzyl phthalate	7600	U	82000	7600
117-81-7	Bis(2-ethylhexyl) phthalate	27000	U	82000	27000
117-84-0	Di-n-octyl phthalate	5300	U	82000	5300
193-39-5	Indeno[1,2,3-cd]pyrene	26000	D	8200	1500
53-70-3	Dibenz(a,h)anthracene	11000	D	8200	1000
91-94-1	3,3'-Dichlorobenzidine	29000	U	170000	29000
95-94-3	1,2,4,5-Tetrachlorobenzene	11000	U J	82000	11000
58-90-2	2,3,4,6-Tetrachlorophenol	11000	U	82000	11000

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) DL | Lab Sample ID: 460-49593-1 DL

Matrix: Solid | Lab File ID: p33921.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.04(g) | Date Analyzed: 01/21/2013 10:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 200

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	0	D	38-105
4165-62-2	Phenol-d5	0	D	41-118
1718-51-0	Terphenyl-d14	0	D	16-151
118-79-6	2,4,6-Tribromophenol	0	D	10-120
367-12-4	2-Fluorophenol	0	D	37-125
321-60-8	2-Fluorobiphenyl	0	D	40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (35-36) DL | Lab Sample ID: 460-49593-1 DL

Matrix: Solid | Lab File ID: p33921.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.04(g) | Date Analyzed: 01/21/2013 10:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 200

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

Number TICs Found: 18 | TIC Result Total: 2.175e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-13-6	Indene	5.05	73000	D J N
	C10H10 Aromatic-1	5.84	88000	D J
	C10H10 Aromatic-2	5.87	86000	D J
90-12-0	1-Methylnaphthalene	6.91	340000	D
	Dimethylnaphthalene isomer-1	7.44	160000	D J
575-41-7	1,3-Dimethylnaphthalene	7.52	190000	D
	Unknown-1	7.54	110000	D J
827-54-3	Naphthalene, 2-ethenyl-	7.58	100000	D J N
	Dimethylnaphthalene isomer-2	7.63	120000	D J
	Unknown-2	8.17	76000	D J
	C14H12 PAH	8.94	80000	D J
	C15H12 PAH-1	9.81	110000	D J
	C15H12 PAH-2	9.84	140000	D J
	C15H10/C15H12 PAHs	9.92	180000	D J
	C15H12 PAH-3	9.94	82000	D J
	C16H14 PAH	10.36	92000	D J
	Unknown-3	10.39	71000	D J
	C17H12 PAH	11.06	77000	D J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: p33913.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:30

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.02(g) | Date Analyzed: 01/21/2013 06:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	49	U	370	49
95-57-8	2-Chlorophenol	48	U	370	48
95-48-7	2-Methylphenol	63	U	370	63
106-44-5	4-Methylphenol	72	U	370	72
100-52-7	Benzaldehyde	43	UJ	370	43
98-86-2	Acetophenone	56	U	370	56
111-44-4	Bis(2-chloroethyl)ether	5.0	U	37	5.0
108-60-1	2,2'-oxybis[1-chloropropane]	41	U	370	41
621-64-7	N-Nitrosodi-n-propylamine	6.1	U	37	6.1
98-95-3	Nitrobenzene	5.2	U	37	5.2
67-72-1	Hexachloroethane	4.1	U	37	4.1
78-59-1	Isophorone	44	U	370	44
88-75-5	2-Nitrophenol	41	U	370	41
105-67-9	2,4-Dimethylphenol	90	U	370	90
120-83-2	2,4-Dichlorophenol	54	U	370	54
111-91-1	Bis(2-chloroethoxy)methane	47	U	370	47
91-20-3	Naphthalene	160	J	370	42
106-47-8	4-Chloroaniline	97	U	370	97
87-68-3	Hexachlorobutadiene	8.9	U	74	8.9
105-60-2	Caprolactam	84	U	370	84
59-50-7	4-Chloro-3-methylphenol	55	U	370	55
91-57-6	2-Methylnaphthalene	68	J	370	47
118-74-1	Hexachlorobenzene	5.0	U	37	5.0
77-47-4	Hexachlorocyclopentadiene	43	U	370	43
88-06-2	2,4,6-Trichlorophenol	43	U	370	43
95-95-4	2,4,5-Trichlorophenol	47	U	370	47
92-52-4	Diphenyl	49	U	370	49
91-58-7	2-Chloronaphthalene	41	U	370	41
88-74-4	2-Nitroaniline	150	U	740	150
606-20-2	2,6-Dinitrotoluene	11	U	74	11
131-11-3	Dimethyl phthalate	43	U	370	43
208-96-8	Acenaphthylene	43	U	370	43
99-09-2	3-Nitroaniline	130	U	740	130
83-32-9	Acenaphthene	53	U	370	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: p33913.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:30

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.02(g) | Date Analyzed: 01/21/2013 06:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	240	U	1100	240
51-28-5	2,4-Dinitrophenol	210	U	1100	210
132-64-9	Dibenzofuran	43	U	370	43
84-66-2	Diethyl phthalate	44	U	370	44
86-73-7	Fluorene	47	U	370	47
206-44-0	Fluoranthene	49	U	370	49
84-74-2	Di-n-butyl phthalate	45	U	370	45
121-14-2	2,4-Dinitrotoluene	12	U	74	12
7005-72-3	4-Chlorophenyl phenyl ether	43	U	370	43
100-01-6	4-Nitroaniline	110	U	740	110
534-52-1	4,6-Dinitro-2-methylphenol	100	U	1100	100
101-55-3	4-Bromophenyl phenyl ether	36	U	370	36
1912-24-9	Atrazine	57	U	370	57
120-12-7	Anthracene	45	U	370	45
86-74-8	Carbazole	43	U	370	43
85-01-8	Phenanthrene	47	U	370	47
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	31	U	370	31
218-01-9	Chrysene	43	U	370	43
207-08-9	Benzo[k]fluoranthene	2.8	U	37	2.8
191-24-2	Benzo[g,h,i]perylene	27	U	370	27
205-99-2	Benzo[b]fluoranthene	2.3	U	37	2.3
50-32-8	Benzo[a]pyrene	2.6	U	37	2.6
56-55-3	Benzo[a]anthracene	2.6	U	37	2.6
86-30-6	N-Nitrosodiphenylamine	36	U	370	36
85-68-7	Butyl benzyl phthalate	34	U	370	34
117-81-7	Bis(2-ethylhexyl) phthalate	120	U	370	120
117-84-0	Di-n-octyl phthalate	23	U	370	23
193-39-5	Indeno[1,2,3-cd]pyrene	6.8	U	37	6.8
53-70-3	Dibenz(a,h)anthracene	4.6	U	37	4.6
91-94-1	3,3'-Dichlorobenzidine	130	U	740	130
95-94-3	1,2,4,5-Tetrachlorobenzene	49	U J	370	49
58-90-2	2,3,4,6-Tetrachlorophenol	48	U	370	48

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: p33913.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:30

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.02(g) | Date Analyzed: 01/21/2013 06:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	52		38-105
4165-62-2	Phenol-d5	74		41-118
1718-51-0	Terphenyl-d14	85		16-151
118-79-6	2,4,6-Tribromophenol	75		10-120
367-12-4	2-Fluorophenol	56		37-125
321-60-8	2-Fluorobiphenyl	62		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: SB-33 (50-54) | Lab Sample ID: 460-49593-2

Matrix: Solid | Lab File ID: p33913.d

Analysis Method: 8270C | Date Collected: 01/15/2013 14:30

Extract. Method: 3541 | Date Extracted: 01/18/2013 09:04

Sample wt/vol: 15.02(g) | Date Analyzed: 01/21/2013 06:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144012 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 380

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.74	380	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: o69437.d

Analysis Method: 8260B | Date Collected: 01/21/2013 14:00

Sample wt/vol: 7.39(g) | Date Analyzed: 01/29/2013 11:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.1 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.12	U H J	0.74	0.12
74-83-9	Bromomethane	0.32	U H J	0.74	0.32
75-01-4	Vinyl chloride	0.25	U H J	0.74	0.25
75-00-3	Chloroethane	0.25	U H J	0.74	0.25
75-09-2	Methylene Chloride	0.25	J H	0.74	0.11
67-64-1	Acetone	13	~~H B~~ U	7.4	1.3
75-15-0	Carbon disulfide	0.22	J H	0.74	0.11
75-69-4	Trichlorofluoromethane	0.12	U H J	0.74	0.12
75-35-4	1,1-Dichloroethene	0.14	U H J	0.74	0.14
75-34-3	1,1-Dichloroethane	0.082	U H J	0.74	0.082
156-60-5	trans-1,2-Dichloroethene	2.5	~~H~~ J	0.74	0.097
156-59-2	cis-1,2-Dichloroethene	11	~~H~~ J	0.74	0.082
67-66-3	Chloroform	0.18	U H J	0.74	0.18
78-93-3	2-Butanone	2.5	J H	7.4	0.47
107-06-2	1,2-Dichloroethane	0.13	U H J	0.74	0.13
71-55-6	1,1,1-Trichloroethane	0.097	U H J	0.74	0.097
56-23-5	Carbon tetrachloride	0.11	U H J	0.74	0.11
71-43-2	Benzene	4.5	~~H~~ J	0.74	0.11
75-25-2	Bromoform	0.13	U H J	0.74	0.13
100-42-5	Styrene	0.21	U H J	0.74	0.21
179601-23-1	m&p-Xylene	0.44	U H J	1.5	0.44
95-47-6	o-Xylene	0.14	U H J	0.74	0.14
100-41-4	Ethylbenzene	1.5	~~H~~ J	0.74	0.13
108-90-7	Chlorobenzene	0.13	U H J	0.74	0.13
110-82-7	Cyclohexane	0.097	U H J	0.74	0.097
98-82-8	Isopropylbenzene	0.12	J H	0.74	0.082
591-78-6	2-Hexanone	0.097	U H J	7.4	0.097
1634-04-4	MTBE	4.7	~~H~~ J	0.74	0.082
76-13-1	Freon TF	0.082	U H J	0.74	0.082
79-20-9	Methyl acetate	0.24	U H J	0.74	0.24
123-91-1	1,4-Dioxane	9.4	U H J	37	9.4
79-01-6	Trichloroethene	21	~~H~~ J	0.74	0.089
108-88-3	Toluene	0.26	J H	0.74	0.10
10061-02-6	trans-1,3-Dichloropropene	0.074	U H J	0.74	0.074
108-10-1	4-Methyl-2-pentanone	0.15	U H J	7.4	0.15
10061-01-5	cis-1,3-Dichloropropene	0.10	U H J	0.74	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: o69437.d

Analysis Method: 8260B | Date Collected: 01/21/2013 14:00

Sample wt/vol: 7.39(g) | Date Analyzed: 01/29/2013 11:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.1 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.074	U H J	0.74	0.074
541-73-1	1,3-Dichlorobenzene	0.12	U H J	0.74	0.12
106-46-7	1,4-Dichlorobenzene	0.082	U H J	0.74	0.082
120-82-1	1,2,4-Trichlorobenzene	0.14	U H J	0.74	0.14
87-61-6	1,2,3-Trichlorobenzene	0.12	U H J	0.74	0.12
78-87-5	1,2-Dichloropropane	0.11	U H J	0.74	0.11
108-87-2	Methylcyclohexane	0.074	U H J	0.74	0.074
127-18-4	Tetrachloroethene	290	~~H~~ J	0.74	0.089
96-12-8	1,2-Dibromo-3-Chloropropane	0.33	U H J	0.74	0.33
79-34-5	1,1,2,2-Tetrachloroethane	0.067	U H J	0.74	0.067
79-00-5	1,1,2-Trichloroethane	0.10	U H J	0.74	0.10
124-48-1	Dibromochloromethane	0.074	U H J	0.74	0.074
106-93-4	1,2-Dibromoethane	0.11	U H J	0.74	0.11
75-71-8	Dichlorodifluoromethane	0.16	U H J	0.74	0.16
74-97-5	Bromochloromethane	0.082	U H J	0.74	0.082
75-27-4	Bromodichloromethane	0.24	U H J	0.74	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	91		70-130
460-00-4	Bromofluorobenzene	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) Lab Sample ID: 460-49827-1

Matrix: Solid Lab File ID: o69437.d

Analysis Method: 8260B Date Collected: 01/21/2013 14:00

Sample wt/vol: 7.39(g) Date Analyzed: 01/29/2013 11:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.1 Level: (low/med) Low

Analysis Batch No.: 145061 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	H

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: o69433.d

Analysis Method: 8260B | Date Collected: 01/21/2013 15:30

Sample wt/vol: 6.61(g) | Date Analyzed: 01/29/2013 10:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.1 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.15	U H J	0.95	0.15
74-83-9	Bromomethane	0.41	U H J	0.95	0.41
75-01-4	Vinyl chloride	0.32	U H J	0.95	0.32
75-00-3	Chloroethane	0.31	U H J	0.95	0.31
75-09-2	Methylene Chloride	0.39	J H	0.95	0.14
67-64-1	Acetone	37	~~H B~~ J	9.5	1.6
75-15-0	Carbon disulfide	0.76	J H	0.95	0.14
75-69-4	Trichlorofluoromethane	0.15	U H J	0.95	0.15
75-35-4	1,1-Dichloroethene	0.18	U H J	0.95	0.18
75-34-3	1,1-Dichloroethane	0.10	U H J	0.95	0.10
156-60-5	trans-1,2-Dichloroethene	0.12	U H J	0.95	0.12
156-59-2	cis-1,2-Dichloroethene	0.10	U H J	0.95	0.10
67-66-3	Chloroform	0.23	U H J	0.95	0.23
78-93-3	2-Butanone	5.3	J H	9.5	0.60
107-06-2	1,2-Dichloroethane	0.17	U H J	0.95	0.17
71-55-6	1,1,1-Trichloroethane	0.12	U H J	0.95	0.12
56-23-5	Carbon tetrachloride	0.14	U H J	0.95	0.14
71-43-2	Benzene	0.19	J H	0.95	0.14
75-25-2	Bromoform	0.16	U H J	0.95	0.16
100-42-5	Styrene	0.26	U H J	0.95	0.26
179601-23-1	m&p-Xylene	0.56	U H J	1.9	0.56
95-47-6	o-Xylene	0.18	U H J	0.95	0.18
100-41-4	Ethylbenzene	0.24	J H	0.95	0.16
108-90-7	Chlorobenzene	0.17	U H J	0.95	0.17
110-82-7	Cyclohexane	0.12	U H J	0.95	0.12
98-82-8	Isopropylbenzene	0.10	U H J	0.95	0.10
591-78-6	2-Hexanone	0.12	U H J	9.5	0.12
1634-04-4	MTBE	0.10	U H J	0.95	0.10
76-13-1	Freon TF	0.10	U H J	0.95	0.10
79-20-9	Methyl acetate	0.30	U H J	0.95	0.30
123-91-1	1,4-Dioxane	12	U H J	47	12
79-01-6	Trichloroethene	0.11	U H J	0.95	0.11
108-88-3	Toluene	0.38	J H	0.95	0.13
10061-02-6	trans-1,3-Dichloropropene	0.095	U H J	0.95	0.095
108-10-1	4-Methyl-2-pentanone	0.19	U H J	9.5	0.19
10061-01-5	cis-1,3-Dichloropropene	0.13	U H J	0.95	0.13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: o69433.d

Analysis Method: 8260B | Date Collected: 01/21/2013 15:30

Sample wt/vol: 6.61(g) | Date Analyzed: 01/29/2013 10:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.1 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.095	U H J	0.95	0.095
541-73-1	1,3-Dichlorobenzene	0.15	U H J	0.95	0.15
106-46-7	1,4-Dichlorobenzene	0.10	U H J	0.95	0.10
120-82-1	1,2,4-Trichlorobenzene	0.18	U H J	0.95	0.18
87-61-6	1,2,3-Trichlorobenzene	0.15	U H J	0.95	0.15
78-87-5	1,2-Dichloropropane	0.14	U H J	0.95	0.14
108-87-2	Methylcyclohexane	0.095	U H J	0.95	0.095
127-18-4	Tetrachloroethene	0.11	U H J	0.95	0.11
96-12-8	1,2-Dibromo-3-Chloropropane	0.42	U H J	0.95	0.42
79-34-5	1,1,2,2-Tetrachloroethane	0.085	U H J	0.95	0.085
79-00-5	1,1,2-Trichloroethane	0.13	U H J	0.95	0.13
124-48-1	Dibromochloromethane	0.095	U H J	0.95	0.095
106-93-4	1,2-Dibromoethane	0.14	U H J	0.95	0.14
75-71-8	Dichlorodifluoromethane	0.21	U H J	0.95	0.21
74-97-5	Bromochloromethane	0.10	U H J	0.95	0.10
75-27-4	Bromodichloromethane	0.30	U H J	0.95	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	108		70-130
460-00-4	Bromofluorobenzene	107		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: o69433.d

Analysis Method: 8260B | Date Collected: 01/21/2013 15:30

Sample wt/vol: 6.61(g) | Date Analyzed: 01/29/2013 10:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 20.1 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	H

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 Lab Sample ID: 460-49827-3

Matrix: Solid Lab File ID: o69436.d

Analysis Method: 8260B Date Collected: 01/21/2013 00:00

Sample wt/vol: 6.67(g) Date Analyzed: 01/29/2013 11:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.0 Level: (low/med) Low

Analysis Batch No.: 145061 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.13	U H J	0.82	0.13
74-83-9	Bromomethane	0.35	U H J	0.82	0.35
75-01-4	Vinyl chloride	0.28	U H J	0.82	0.28
75-00-3	Chloroethane	0.27	U H J	0.82	0.27
75-09-2	Methylene Chloride	0.27	J H	0.82	0.12
67-64-1	Acetone	13	~~H B~~ U	8.2	1.4
75-15-0	Carbon disulfide	0.27	J H	0.82	0.12
75-69-4	Trichlorofluoromethane	0.13	U H J	0.82	0.13
75-35-4	1,1-Dichloroethene	0.16	U H J	0.82	0.16
75-34-3	1,1-Dichloroethane	0.091	U H J	0.82	0.091
156-60-5	trans-1,2-Dichloroethene	1.8	~~H~~ J	0.82	0.11
156-59-2	cis-1,2-Dichloroethene	6.8	~~H~~ J	0.82	0.091
67-66-3	Chloroform	0.20	U H J	0.82	0.20
78-93-3	2-Butanone	3.4	J H	8.2	0.52
107-06-2	1,2-Dichloroethane	0.15	U H J	0.82	0.15
71-55-6	1,1,1-Trichloroethane	0.11	U H J	0.82	0.11
56-23-5	Carbon tetrachloride	0.12	U H J	0.82	0.12
71-43-2	Benzene	6.2	~~H~~ J	0.82	0.12
75-25-2	Bromoform	0.14	U H J	0.82	0.14
100-42-5	Styrene	0.23	U H J	0.82	0.23
179601-23-1	m&p-Xylene	0.49	U H J	1.6	0.49
95-47-6	o-Xylene	0.25	J H	0.82	0.16
100-41-4	Ethylbenzene	4.2	~~H~~ J	0.82	0.14
108-90-7	Chlorobenzene	0.15	U H J	0.82	0.15
110-82-7	Cyclohexane	0.11	U H J	0.82	0.11
98-82-8	Isopropylbenzene	0.20	J H	0.82	0.091
591-78-6	2-Hexanone	0.11	U H J	8.2	0.11
1634-04-4	MTBE	2.8	~~H~~ J	0.82	0.091
76-13-1	Freon TF	0.091	U H J	0.82	0.091
79-20-9	Methyl acetate	0.26	U H J	0.82	0.26
123-91-1	1,4-Dioxane	10	U H J	41	10
79-01-6	Trichloroethene	15	~~H~~ J	0.82	0.099
108-88-3	Toluene	0.31	J H	0.82	0.12
10061-02-6	trans-1,3-Dichloropropene	0.082	U H J	0.82	0.082
108-10-1	4-Methyl-2-pentanone	0.16	U H J	8.2	0.16
10061-01-5	cis-1,3-Dichloropropene	0.12	U H J	0.82	0.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 | Lab Sample ID: 460-49827-3

Matrix: Solid | Lab File ID: o69436.d

Analysis Method: 8260B | Date Collected: 01/21/2013 00:00

Sample wt/vol: 6.67(g) | Date Analyzed: 01/29/2013 11:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.0 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.082	U H J	0.82	0.082
541-73-1	1,3-Dichlorobenzene	0.13	U H J	0.82	0.13
106-46-7	1,4-Dichlorobenzene	0.091	U H J	0.82	0.091
120-82-1	1,2,4-Trichlorobenzene	0.16	U H J	0.82	0.16
87-61-6	1,2,3-Trichlorobenzene	0.13	U H J	0.82	0.13
78-87-5	1,2-Dichloropropane	0.12	U H J	0.82	0.12
108-87-2	Methylcyclohexane	0.082	U H J	0.82	0.082
127-18-4	Tetrachloroethene	240	H J	0.82	0.099
96-12-8	1,2-Dibromo-3-Chloropropane	0.36	U H J	0.82	0.36
79-34-5	1,1,2,2-Tetrachloroethane	0.074	U H J	0.82	0.074
79-00-5	1,1,2-Trichloroethane	0.12	U H J	0.82	0.12
124-48-1	Dibromochloromethane	0.082	U H J	0.82	0.082
106-93-4	1,2-Dibromoethane	0.12	U H J	0.82	0.12
75-71-8	Dichlorodifluoromethane	0.18	U H J	0.82	0.18
74-97-5	Bromochloromethane	0.091	U H J	0.82	0.091
75-27-4	Bromodichloromethane	0.26	U H J	0.82	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
460-00-4	Bromofluorobenzene	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 Lab Sample ID: 460-49827-3

Matrix: Solid Lab File ID: o69436.d

Analysis Method: 8260B Date Collected: 01/21/2013 00:00

Sample wt/vol: 6.67(g) Date Analyzed: 01/29/2013 11:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 9.0 Level: (low/med) Low

Analysis Batch No.: 145061 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-13-6	Indene	11.66	5.0	H J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: o69435.d

Analysis Method: 8260B | Date Collected: 01/22/2013 14:00

Sample wt/vol: 5.71(g) | Date Analyzed: 01/29/2013 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.6 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.17	U	1.1	0.17
74-83-9	Bromomethane	0.46	U	1.1	0.46
75-01-4	Vinyl chloride	0.37	U	1.1	0.37
75-00-3	Chloroethane	0.36	U	1.1	0.36
75-09-2	Methylene Chloride	0.31	J	1.1	0.16
67-64-1	Acetone	12	~~B~~ U	11	1.8
75-15-0	Carbon disulfide	11	J	1.1	0.16
75-69-4	Trichlorofluoromethane	0.17	U	1.1	0.17
75-35-4	1,1-Dichloroethene	0.20	U	1.1	0.20
75-34-3	1,1-Dichloroethane	0.12	U	1.1	0.12
156-60-5	trans-1,2-Dichloroethene	1.2	J	1.1	0.14
156-59-2	cis-1,2-Dichloroethene	16	J	1.1	0.12
67-66-3	Chloroform	0.26	U	1.1	0.26
78-93-3	2-Butanone	3.5	J	11	0.68
107-06-2	1,2-Dichloroethane	0.19	U	1.1	0.19
71-55-6	1,1,1-Trichloroethane	0.14	UJ	1.1	0.14
56-23-5	Carbon tetrachloride	0.16	UJ	1.1	0.16
71-43-2	Benzene	4.1		1.1	0.16
75-25-2	Bromoform	0.18	UJ	1.1	0.18
100-42-5	Styrene	0.30	UJ	1.1	0.30
179601-23-1	m&p-Xylene	0.63	U	2.2	0.63
95-47-6	o-Xylene	0.40	J	1.1	0.20
100-41-4	Ethylbenzene	0.74	J	1.1	0.18
108-90-7	Chlorobenzene	0.19	U	1.1	0.19
110-82-7	Cyclohexane	0.14	U	1.1	0.14
98-82-8	Isopropylbenzene	0.12	U	1.1	0.12
591-78-6	2-Hexanone	0.14	U	11	0.14
1634-04-4	MTBE	0.76	J	1.1	0.12
76-13-1	Freon TF	0.12	U	1.1	0.12
79-20-9	Methyl acetate	0.34	U	1.1	0.34
123-91-1	1,4-Dioxane	14	UJ	54	14
79-01-6	Trichloroethene	0.77	J	1.1	0.13
108-88-3	Toluene	0.69	J	1.1	0.15
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
108-10-1	4-Methyl-2-pentanone	0.22	U	11	0.22
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.1	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: o69435.d

Analysis Method: 8260B | Date Collected: 01/22/2013 14:00

Sample wt/vol: 5.71(g) | Date Analyzed: 01/29/2013 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.6 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.11	UJ	1.1	0.11
541-73-1	1,3-Dichlorobenzene	0.17	UJ	1.1	0.17
106-46-7	1,4-Dichlorobenzene	0.12	UJ	1.1	0.12
120-82-1	1,2,4-Trichlorobenzene	0.20	UJ	1.1	0.20
87-61-6	1,2,3-Trichlorobenzene	0.17	UJ	1.1	0.17
78-87-5	1,2-Dichloropropane	0.16	U	1.1	0.16
108-87-2	Methylcyclohexane	0.11	U	1.1	0.11
127-18-4	Tetrachloroethene	0.13	UJ	1.1	0.13
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	UJ	1.1	0.47
79-34-5	1,1,2,2-Tetrachloroethane	0.097	U	1.1	0.097
79-00-5	1,1,2-Trichloroethane	0.15	U	1.1	0.15
124-48-1	Dibromochloromethane	0.11	U	1.1	0.11
106-93-4	1,2-Dibromoethane	0.16	U	1.1	0.16
75-71-8	Dichlorodifluoromethane	0.24	U	1.1	0.24
74-97-5	Bromochloromethane	0.12	U	1.1	0.12
75-27-4	Bromodichloromethane	0.34	U	1.1	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
460-00-4	Bromofluorobenzene	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: o69435.d

Analysis Method: 8260B | Date Collected: 01/22/2013 14:00

Sample wt/vol: 5.71(g) | Date Analyzed: 01/29/2013 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.6 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: o69434.d

Analysis Method: 8260B | Date Collected: 01/22/2013 15:00

Sample wt/vol: 5.45(g) | Date Analyzed: 01/29/2013 10:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.7 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.17	U	1.1	0.17
74-83-9	Bromomethane	0.47	U	1.1	0.47
75-01-4	Vinyl chloride	0.37	U	1.1	0.37
75-00-3	Chloroethane	0.36	U	1.1	0.36
75-09-2	Methylene Chloride	0.39	J	1.1	0.16
67-64-1	Acetone	44	~~B~~ J	11	1.8
75-15-0	Carbon disulfide	12		1.1	0.16
75-69-4	Trichlorofluoromethane	0.17	U	1.1	0.17
75-35-4	1,1-Dichloroethene	0.21	U	1.1	0.21
75-34-3	1,1-Dichloroethane	0.12	U	1.1	0.12
156-60-5	trans-1,2-Dichloroethene	0.76	J	1.1	0.14
156-59-2	cis-1,2-Dichloroethene	6.6		1.1	0.12
67-66-3	Chloroform	0.26	U	1.1	0.26
78-93-3	2-Butanone	13	J	11	0.69
107-06-2	1,2-Dichloroethane	0.20	U	1.1	0.20
71-55-6	1,1,1-Trichloroethane	0.14	U	1.1	0.14
56-23-5	Carbon tetrachloride	0.16	U	1.1	0.16
71-43-2	Benzene	9.4		1.1	0.16
75-25-2	Bromoform	0.18	U J	1.1	0.18
100-42-5	Styrene	0.30	U	1.1	0.30
179601-23-1	m&p-Xylene	50		2.2	0.64
95-47-6	o-Xylene	45		1.1	0.21
100-41-4	Ethylbenzene	53		1.1	0.18
108-90-7	Chlorobenzene	0.20	U	1.1	0.20
110-82-7	Cyclohexane	0.14	U	1.1	0.14
98-82-8	Isopropylbenzene	11		1.1	0.12
591-78-6	2-Hexanone	0.14	U	11	0.14
1634-04-4	MTBE	0.30	J	1.1	0.12
76-13-1	Freon TF	0.12	U	1.1	0.12
79-20-9	Methyl acetate	0.35	U	1.1	0.35
123-91-1	1,4-Dioxane	14	U J	54	14
79-01-6	Trichloroethene	3.7		1.1	0.13
108-88-3	Toluene	9.3		1.1	0.15
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
108-10-1	4-Methyl-2-pentanone	0.22	U	11	0.22
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.1	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: o69434.d

Analysis Method: 8260B | Date Collected: 01/22/2013 15:00

Sample wt/vol: 5.45(g) | Date Analyzed: 01/29/2013 10:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.7 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.11	U	1.1	0.11
541-73-1	1,3-Dichlorobenzene	0.17	U	1.1	0.17
106-46-7	1,4-Dichlorobenzene	0.12	U	1.1	0.12
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.1	0.21
87-61-6	1,2,3-Trichlorobenzene	0.17	U	1.1	0.17
78-87-5	1,2-Dichloropropane	0.16	U	1.1	0.16
108-87-2	Methylcyclohexane	0.35	J	1.1	0.11
127-18-4	Tetrachloroethene	1.5		1.1	0.13
96-12-8	1,2-Dibromo-3-Chloropropane	0.48	U ک	1.1	0.48
79-34-5	1,1,2,2-Tetrachloroethane	0.098	U	1.1	0.098
79-00-5	1,1,2-Trichloroethane	0.15	U	1.1	0.15
124-48-1	Dibromochloromethane	0.11	U	1.1	0.11
106-93-4	1,2-Dibromoethane	0.16	U	1.1	0.16
75-71-8	Dichlorodifluoromethane	0.24	U	1.1	0.24
74-97-5	Bromochloromethane	0.12	U	1.1	0.12
75-27-4	Bromodichloromethane	0.35	U	1.1	0.35

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
460-00-4	Bromofluorobenzene	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: o69434.d

Analysis Method: 8260B | Date Collected: 01/22/2013 15:00

Sample wt/vol: 5.45(g) | Date Analyzed: 01/29/2013 10:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 15.7 | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

Number TICs Found: 15 | TIC Result Total: 604.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	C9H12 Aromatic	9.69	47	J
622-96-8	4-Ethyltoluene	9.72	22	
108-67-8	1,3,5-Trimethylbenzene	9.84	18	
611-14-3	Benzene, 1-ethyl-2-methyl-	10.13	20	J N
95-63-6	1,2,4-Trimethylbenzene	10.43	53	
	C9H12 Aromatic-1	11.10	28	J
	C9H10 Aromatic-1	11.37	130	J
	C10H14 Aromatic	11.47	12	J
	C10H14 Aromatic-1	11.61	15	J
	C10H14 Aromatic-2	12.06	13	J
	C10H12 Aromatic-2	12.94	14	J
	C10H10 Aromatic	13.09	12	J
91-20-3	Naphthalene	13.48	200	
91-57-6	Naphthalene, 2-methyl-	14.39	11	J N
90-12-0	Naphthalene, 1-methyl-	14.53	9.9	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: p34036.d

Analysis Method: 8270C | Date Collected: 01/21/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.04(g) | Date Analyzed: 01/25/2013 06:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	49	U	360	49
95-57-8	2-Chlorophenol	48	U	360	48
95-48-7	2-Methylphenol	62	U	360	62
106-44-5	4-Methylphenol	71	U	360	71
100-52-7	Benzaldehyde	43	UJ	360	43
98-86-2	Acetophenone	56	U	360	56
111-44-4	Bis(2-chloroethyl)ether	4.9	U	36	4.9
108-60-1	2,2'-oxybis[1-chloropropane]	40	U	360	40
621-64-7	N-Nitrosodi-n-propylamine	6.1	U	36	6.1
98-95-3	Nitrobenzene	5.2	U	36	5.2
67-72-1	Hexachloroethane	4.0	U	36	4.0
78-59-1	Isophorone	44	U	360	44
88-75-5	2-Nitrophenol	40	U	360	40
105-67-9	2,4-Dimethylphenol	90	U	360	90
120-83-2	2,4-Dichlorophenol	53	U	360	53
111-91-1	Bis(2-chloroethoxy)methane	47	U	360	47
91-20-3	Naphthalene	42	U	360	42
106-47-8	4-Chloroaniline	96	U	360	96
87-68-3	Hexachlorobutadiene	8.9	U	74	8.9
105-60-2	Caprolactam	84	UJ	360	84
59-50-7	4-Chloro-3-methylphenol	55	U	360	55
91-57-6	2-Methylnaphthalene	47	U	360	47
118-74-1	Hexachlorobenzene	5.0	U	36	5.0
77-47-4	Hexachlorocyclopentadiene	43	U	360	43
88-06-2	2,4,6-Trichlorophenol	42	U	360	42
95-95-4	2,4,5-Trichlorophenol	47	U	360	47
92-52-4	Diphenyl	49	U	360	49
91-58-7	2-Chloronaphthalene	40	U	360	40
88-74-4	2-Nitroaniline	150	UJ	740	150
606-20-2	2,6-Dinitrotoluene	11	U	74	11
131-11-3	Dimethyl phthalate	43	U	360	43
208-96-8	Acenaphthylene	43	U	360	43
99-09-2	3-Nitroaniline	130	U	740	130
83-32-9	Acenaphthene	53	U	360	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: p34036.d

Analysis Method: 8270C | Date Collected: 01/21/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.04(g) | Date Analyzed: 01/25/2013 06:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	230	U	1100	230
51-28-5	2,4-Dinitrophenol	210	U	1100	210
132-64-9	Dibenzofuran	43	U	360	43
84-66-2	Diethyl phthalate	43	U	360	43
86-73-7	Fluorene	46	U	360	46
206-44-0	Fluoranthene	48	U	360	48
84-74-2	Di-n-butyl phthalate	45	U	360	45
121-14-2	2,4-Dinitrotoluene	12	U	74	12
7005-72-3	4-Chlorophenyl phenyl ether	43	U	360	43
100-01-6	4-Nitroaniline	110	U J	740	110
534-52-1	4,6-Dinitro-2-methylphenol	99	U	1100	99
101-55-3	4-Bromophenyl phenyl ether	36	U	360	36
1912-24-9	Atrazine	56	U	360	56
120-12-7	Anthracene	44	U	360	44
86-74-8	Carbazole	43	U	360	43
85-01-8	Phenanthrene	46	U	360	46
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	30	U	360	30
218-01-9	Chrysene	42	U	360	42
207-08-9	Benzo[k]fluoranthene	2.8	U	36	2.8
191-24-2	Benzo[g,h,i]perylene	27	U	360	27
205-99-2	Benzo[b]fluoranthene	2.3	U	36	2.3
50-32-8	Benzo[a]pyrene	2.6	U	36	2.6
56-55-3	Benzo[a]anthracene	2.5	U	36	2.5
86-30-6	N-Nitrosodiphenylamine	36	U	360	36
85-68-7	Butyl benzyl phthalate	33	U	360	33
117-81-7	Bis(2-ethylhexyl) phthalate	120	U	360	120
117-84-0	Di-n-octyl phthalate	23	U	360	23
193-39-5	Indeno[1,2,3-cd]pyrene	6.7	U	36	6.7
53-70-3	Dibenz(a,h)anthracene	4.6	U	36	4.6
91-94-1	3,3'-Dichlorobenzidine	130	U	740	130
95-94-3	1,2,4,5-Tetrachlorobenzene	49	U	360	49
58-90-2	2,3,4,6-Tetrachlorophenol	47	U	360	47

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: p34036.d

Analysis Method: 8270C | Date Collected: 01/21/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.04(g) | Date Analyzed: 01/25/2013 06:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		38-105
4165-62-2	Phenol-d5	81		41-118
1718-51-0	Terphenyl-d14	87		16-151
118-79-6	2,4,6-Tribromophenol	80		10-120
367-12-4	2-Fluorophenol	70		37-125
321-60-8	2-Fluorobiphenyl	74		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (35-36) | Lab Sample ID: 460-49827-1

Matrix: Solid | Lab File ID: p34036.d

Analysis Method: 8270C | Date Collected: 01/21/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.04(g) | Date Analyzed: 01/25/2013 06:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 400

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.68	400	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: p34037.d

Analysis Method: 8270C | Date Collected: 01/21/2013 15:30

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 14.98(g) | Date Analyzed: 01/25/2013 07:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	56	U	410	56
95-57-8	2-Chlorophenol	54	U	410	54
95-48-7	2-Methylphenol	71	U	410	71
106-44-5	4-Methylphenol	82	U	410	82
100-52-7	Benzaldehyde	49	UJ	410	49
98-86-2	Acetophenone	64	U	410	64
111-44-4	Bis(2-chloroethyl)ether	5.6	U	41	5.6
108-60-1	2,2'-oxybis[1-chloropropane]	46	U	410	46
621-64-7	N-Nitrosodi-n-propylamine	6.9	U	41	6.9
98-95-3	Nitrobenzene	5.9	U	41	5.9
67-72-1	Hexachloroethane	4.6	U	41	4.6
78-59-1	Isophorone	50	U	410	50
88-75-5	2-Nitrophenol	46	U	410	46
105-67-9	2,4-Dimethylphenol	100	U	410	100
120-83-2	2,4-Dichlorophenol	61	U	410	61
111-91-1	Bis(2-chloroethoxy)methane	53	U	410	53
91-20-3	Naphthalene	48	U	410	48
106-47-8	4-Chloroaniline	110	U	410	110
87-68-3	Hexachlorobutadiene	10	U	84	10
105-60-2	Caprolactam	95	UJ	410	95
59-50-7	4-Chloro-3-methylphenol	63	U	410	63
91-57-6	2-Methylnaphthalene	53	U	410	53
118-74-1	Hexachlorobenzene	5.7	U	41	5.7
77-47-4	Hexachlorocyclopentadiene	49	U	410	49
88-06-2	2,4,6-Trichlorophenol	48	U	410	48
95-95-4	2,4,5-Trichlorophenol	53	U	410	53
92-52-4	Diphenyl	55	U	410	55
91-58-7	2-Chloronaphthalene	46	U	410	46
88-74-4	2-Nitroaniline	170	UJ	840	170
606-20-2	2,6-Dinitrotoluene	12	U	84	12
131-11-3	Dimethyl phthalate	49	U	410	49
208-96-8	Acenaphthylene	49	U	410	49
99-09-2	3-Nitroaniline	150	U	840	150
83-32-9	Acenaphthene	60	U	410	60

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: p34037.d

Analysis Method: 8270C | Date Collected: 01/21/2013 15:30

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 14.98(g) | Date Analyzed: 01/25/2013 07:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	270	U	1300	270
51-28-5	2,4-Dinitrophenol	240	U	1300	240
132-64-9	Dibenzofuran	49	U	410	49
84-66-2	Diethyl phthalate	49	U	410	49
86-73-7	Fluorene	53	U	410	53
206-44-0	Fluoranthene	55	U	410	55
84-74-2	Di-n-butyl phthalate	51	U	410	51
121-14-2	2,4-Dinitrotoluene	14	U	84	14
7005-72-3	4-Chlorophenyl phenyl ether	49	U	410	49
100-01-6	4-Nitroaniline	130	UJ	840	130
534-52-1	4,6-Dinitro-2-methylphenol	110	U	1300	110
101-55-3	4-Bromophenyl phenyl ether	41	U	410	41
1912-24-9	Atrazine	64	U	410	64
120-12-7	Anthracene	50	U	410	50
86-74-8	Carbazole	49	U	410	49
85-01-8	Phenanthrene	53	U	410	53
87-86-5	Pentachlorophenol	120	U	1300	120
129-00-0	Pyrene	35	U	410	35
218-01-9	Chrysene	48	U	410	48
207-08-9	Benzo[k]fluoranthene	3.1	U	41	3.1
191-24-2	Benzo[g,h,i]perylene	31	U	410	31
205-99-2	Benzo[b]fluoranthene	2.6	U	41	2.6
50-32-8	Benzo[a]pyrene	2.9	U	41	2.9
56-55-3	Benzo[a]anthracene	2.9	U	41	2.9
86-30-6	N-Nitrosodiphenylamine	41	U	410	41
85-68-7	Butyl benzyl phthalate	38	U	410	38
117-81-7	Bis(2-ethylhexyl) phthalate	140	U	410	140
117-84-0	Di-n-octyl phthalate	26	U	410	26
193-39-5	Indeno[1,2,3-cd]pyrene	7.7	U	41	7.7
53-70-3	Dibenz(a,h)anthracene	5.2	U	41	5.2
91-94-1	3,3'-Dichlorobenzidine	150	U	840	150
95-94-3	1,2,4,5-Tetrachlorobenzene	56	U	410	56
58-90-2	2,3,4,6-Tetrachlorophenol	54	U	410	54

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) Lab Sample ID: 460-49827-2

Matrix: Solid Lab File ID: p34037.d

Analysis Method: 8270C Date Collected: 01/21/2013 15:30

Extract. Method: 3541 Date Extracted: 01/24/2013 10:16

Sample wt/vol: 14.98(g) Date Analyzed: 01/25/2013 07:15

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 20.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		38-105
4165-62-2	Phenol-d5	83		41-118
1718-51-0	Terphenyl-d14	89		16-151
118-79-6	2,4,6-Tribromophenol	80		10-120
367-12-4	2-Fluorophenol	71		37-125
321-60-8	2-Fluorobiphenyl	77		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-34 (97-98) | Lab Sample ID: 460-49827-2

Matrix: Solid | Lab File ID: p34037.d

Analysis Method: 8270C | Date Collected: 01/21/2013 15:30

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 14.98(g) | Date Analyzed: 01/25/2013 07:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

Number TICs Found: 2 | TIC Result Total: 1200

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown-1	5.68	850	J
	Unknown-2	6.00	350	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 | Lab Sample ID: 460-49827-3

Matrix: Solid | Lab File ID: p34038.d

Analysis Method: 8270C | Date Collected: 01/21/2013 00:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.02(g) | Date Analyzed: 01/25/2013 07:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	49	U	360	49
95-57-8	2-Chlorophenol	48	U	360	48
95-48-7	2-Methylphenol	62	U	360	62
106-44-5	4-Methylphenol	71	U	360	71
100-52-7	Benzaldehyde	43	U J	360	43
98-86-2	Acetophenone	56	U	360	56
111-44-4	Bis(2-chloroethyl)ether	5.0	U	36	5.0
108-60-1	2,2'-oxybis[1-chloropropane]	40	U	360	40
621-64-7	N-Nitrosodi-n-propylamine	6.1	U	36	6.1
98-95-3	Nitrobenzene	5.2	U	36	5.2
67-72-1	Hexachloroethane	4.0	U	36	4.0
78-59-1	Isophorone	44	U	360	44
88-75-5	2-Nitrophenol	41	U	360	41
105-67-9	2,4-Dimethylphenol	90	U	360	90
120-83-2	2,4-Dichlorophenol	53	U	360	53
111-91-1	Bis(2-chloroethoxy)methane	47	U	360	47
91-20-3	Naphthalene	42	U	360	42
106-47-8	4-Chloroaniline	96	U	360	96
87-68-3	Hexachlorobutadiene	8.9	U	74	8.9
105-60-2	Caprolactam	84	U J	360	84
59-50-7	4-Chloro-3-methylphenol	55	U	360	55
91-57-6	2-Methylnaphthalene	47	U	360	47
118-74-1	Hexachlorobenzene	5.0	U	36	5.0
77-47-4	Hexachlorocyclopentadiene	43	U	360	43
88-06-2	2,4,6-Trichlorophenol	42	U	360	42
95-95-4	2,4,5-Trichlorophenol	47	U	360	47
92-52-4	Diphenyl	49	U	360	49
91-58-7	2-Chloronaphthalene	41	U	360	41
88-74-4	2-Nitroaniline	150	U J	740	150
606-20-2	2,6-Dinitrotoluene	11	U	74	11
131-11-3	Dimethyl phthalate	43	U	360	43
208-96-8	Acenaphthylene	43	U	360	43
99-09-2	3-Nitroaniline	130	U	740	130
83-32-9	Acenaphthene	53	U	360	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 | Lab Sample ID: 460-49827-3

Matrix: Solid | Lab File ID: p34038.d

Analysis Method: 8270C | Date Collected: 01/21/2013 00:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.02(g) | Date Analyzed: 01/25/2013 07:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	230	U	1100	230
51-28-5	2,4-Dinitrophenol	210	U	1100	210
132-64-9	Dibenzofuran	43	U	360	43
84-66-2	Diethyl phthalate	43	U	360	43
86-73-7	Fluorene	46	U	360	46
206-44-0	Fluoranthene	48	U	360	48
84-74-2	Di-n-butyl phthalate	45	U	360	45
121-14-2	2,4-Dinitrotoluene	12	U	74	12
7005-72-3	4-Chlorophenyl phenyl ether	43	U	360	43
100-01-6	4-Nitroaniline	110	U J	740	110
534-52-1	4,6-Dinitro-2-methylphenol	99	U	1100	99
101-55-3	4-Bromophenyl phenyl ether	36	U	360	36
1912-24-9	Atrazine	56	U	360	56
120-12-7	Anthracene	44	U	360	44
86-74-8	Carbazole	43	U	360	43
85-01-8	Phenanthrene	46	U	360	46
87-86-5	Pentachlorophenol	110	U	1100	110
129-00-0	Pyrene	30	U	360	30
218-01-9	Chrysene	42	U	360	42
207-08-9	Benzo[k]fluoranthene	2.8	U	36	2.8
191-24-2	Benzo[g,h,i]perylene	27	U	360	27
205-99-2	Benzo[b]fluoranthene	2.3	U	36	2.3
50-32-8	Benzo[a]pyrene	2.6	U	36	2.6
56-55-3	Benzo[a]anthracene	2.5	U	36	2.5
86-30-6	N-Nitrosodiphenylamine	36	U	360	36
85-68-7	Butyl benzyl phthalate	33	U	360	33
117-81-7	Bis(2-ethylhexyl) phthalate	120	U	360	120
117-84-0	Di-n-octyl phthalate	23	U	360	23
193-39-5	Indeno[1,2,3-cd]pyrene	6.8	U	36	6.8
53-70-3	Dibenz(a,h)anthracene	4.6	U	36	4.6
91-94-1	3,3'-Dichlorobenzidine	130	U	740	130
95-94-3	1,2,4,5-Tetrachlorobenzene	49	U	360	49
58-90-2	2,3,4,6-Tetrachlorophenol	47	U	360	47

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 | Lab Sample ID: 460-49827-3

Matrix: Solid | Lab File ID: p34038.d

Analysis Method: 8270C | Date Collected: 01/21/2013 00:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.02(g) | Date Analyzed: 01/25/2013 07:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		38-105
4165-62-2	Phenol-d5	82		41-118
1718-51-0	Terphenyl-d14	91		16-151
118-79-6	2,4,6-Tribromophenol	80		10-120
367-12-4	2-Fluorophenol	68		37-125
321-60-8	2-Fluorobiphenyl	73		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: DUPE-1-13 | Lab Sample ID: 460-49827-3

Matrix: Solid | Lab File ID: p34038.d

Analysis Method: 8270C | Date Collected: 01/21/2013 00:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.02(g) | Date Analyzed: 01/25/2013 07:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 450

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.68	450	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: p34042.d

Analysis Method: 8270C | Date Collected: 01/22/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.00(g) | Date Analyzed: 01/25/2013 09:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	55	U	410	55
95-57-8	2-Chlorophenol	53	U	410	53
95-48-7	2-Methylphenol	69	U	410	69
106-44-5	4-Methylphenol	80	U	410	80
100-52-7	Benzaldehyde	48	UJ	410	48
98-86-2	Acetophenone	62	U	410	62
111-44-4	Bis(2-chloroethyl)ether	5.5	U	41	5.5
108-60-1	2,2'-oxybis[1-chloropropane]	45	U	410	45
621-64-7	N-Nitrosodi-n-propylamine	6.8	U	41	6.8
98-95-3	Nitrobenzene	5.8	U	41	5.8
67-72-1	Hexachloroethane	4.5	U	41	4.5
78-59-1	Isophorone	49	U	410	49
88-75-5	2-Nitrophenol	45	U	410	45
105-67-9	2,4-Dimethylphenol	100	U	410	100
120-83-2	2,4-Dichlorophenol	59	U	410	59
111-91-1	Bis(2-chloroethoxy)methane	52	U	410	52
91-20-3	Naphthalene	47	U	410	47
106-47-8	4-Chloroaniline	110	U	410	110
87-68-3	Hexachlorobutadiene	9.9	U	82	9.9
105-60-2	Caprolactam	94	UJ	410	94
59-50-7	4-Chloro-3-methylphenol	61	U	410	61
91-57-6	2-Methylnaphthalene	52	U	410	52
118-74-1	Hexachlorobenzene	5.6	U	41	5.6
77-47-4	Hexachlorocyclopentadiene	48	U	410	48
88-06-2	2,4,6-Trichlorophenol	48	U	410	48
95-95-4	2,4,5-Trichlorophenol	52	U	410	52
92-52-4	Diphenyl	54	U	410	54
91-58-7	2-Chloronaphthalene	45	U	410	45
88-74-4	2-Nitroaniline	170	UJ	820	170
606-20-2	2,6-Dinitrotoluene	12	U	82	12
131-11-3	Dimethyl phthalate	48	U	410	48
208-96-8	Acenaphthylene	48	U	410	48
99-09-2	3-Nitroaniline	140	U	820	140
83-32-9	Acenaphthene	59	U	410	59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: p34042.d

Analysis Method: 8270C | Date Collected: 01/22/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.00(g) | Date Analyzed: 01/25/2013 09:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	260	U	1200	260
51-28-5	2,4-Dinitrophenol	230	U	1200	230
132-64-9	Dibenzofuran	48	U	410	48
84-66-2	Diethyl phthalate	48	U	410	48
86-73-7	Fluorene	52	U	410	52
206-44-0	Fluoranthene	63	J	410	54
84-74-2	Di-n-butyl phthalate	50	U	410	50
121-14-2	2,4-Dinitrotoluene	13	U	82	13
7005-72-3	4-Chlorophenyl phenyl ether	48	U	410	48
100-01-6	4-Nitroaniline	130	U J	820	130
534-52-1	4,6-Dinitro-2-methylphenol	110	U	1200	110
101-55-3	4-Bromophenyl phenyl ether	40	U	410	40
1912-24-9	Atrazine	63	U	410	63
120-12-7	Anthracene	49	U	410	49
86-74-8	Carbazole	48	U	410	48
85-01-8	Phenanthrene	55	J	410	52
87-86-5	Pentachlorophenol	120	U	1200	120
129-00-0	Pyrene	71	J	410	34
218-01-9	Chrysene	47	U	410	47
207-08-9	Benzo[k]fluoranthene	3.1	U	41	3.1
191-24-2	Benzo[g,h,i]perylene	30	U	410	30
205-99-2	Benzo[b]fluoranthene	27	J ✓	41	2.6
50-32-8	Benzo[a]pyrene	33	J ✓	41	2.9
56-55-3	Benzo[a]anthracene	2.8	U	41	2.8
86-30-6	N-Nitrosodiphenylamine	40	U	410	40
85-68-7	Butyl benzyl phthalate	37	U	410	37
117-81-7	Bis(2-ethylhexyl) phthalate	140	U	410	140
117-84-0	Di-n-octyl phthalate	26	U	410	26
193-39-5	Indeno[1,2,3-cd]pyrene	7.6	U	41	7.6
53-70-3	Dibenz(a,h)anthracene	5.1	U	41	5.1
91-94-1	3,3'-Dichlorobenzidine	140	U	820	140
95-94-3	1,2,4,5-Tetrachlorobenzene	55	U	410	55
58-90-2	2,3,4,6-Tetrachlorophenol	53	U	410	53

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: p34042.d

Analysis Method: 8270C | Date Collected: 01/22/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.00(g) | Date Analyzed: 01/25/2013 09:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	69		38-105
4165-62-2	Phenol-d5	77		41-118
1718-51-0	Terphenyl-d14	93		16-151
118-79-6	2,4,6-Tribromophenol	78		10-120
367-12-4	2-Fluorophenol	67		37-125
321-60-8	2-Fluorobiphenyl	71		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (35-36) | Lab Sample ID: 460-49827-4

Matrix: Solid | Lab File ID: p34042.d

Analysis Method: 8270C | Date Collected: 01/22/2013 14:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.00(g) | Date Analyzed: 01/25/2013 09:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 370

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	5.68	370	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: p34043.d

Analysis Method: 8270C | Date Collected: 01/22/2013 15:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.03(g) | Date Analyzed: 01/25/2013 10:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	53	U	390	53
95-57-8	2-Chlorophenol	51	U	390	51
95-48-7	2-Methylphenol	67	U	390	67
106-44-5	4-Methylphenol	77	U	390	77
100-52-7	Benzaldehyde	46	UJ	390	46
98-86-2	Acetophenone	60	U	390	60
111-44-4	Bis(2-chloroethyl)ether	5.3	U	39	5.3
108-60-1	2,2'-oxybis[1-chloropropane]	43	U	390	43
621-64-7	N-Nitrosodi-n-propylamine	6.5	U	39	6.5
98-95-3	Nitrobenzene	5.6	U	39	5.6
67-72-1	Hexachloroethane	4.4	U	39	4.4
78-59-1	Isophorone	47	U	390	47
88-75-5	2-Nitrophenol	44	U	390	44
105-67-9	2,4-Dimethylphenol	97	U	390	97
120-83-2	2,4-Dichlorophenol	57	U	390	57
111-91-1	Bis(2-chloroethoxy)methane	51	U	390	51
91-20-3	Naphthalene	400		390	45
106-47-8	4-Chloroaniline	100	U	390	100
87-68-3	Hexachlorobutadiene	9.5	U	79	9.5
105-60-2	Caprolactam	90	UJ	390	90
59-50-7	4-Chloro-3-methylphenol	59	U	390	59
91-57-6	2-Methylnaphthalene	50	U	390	50
118-74-1	Hexachlorobenzene	5.3	U	39	5.3
77-47-4	Hexachlorocyclopentadiene	46	U	390	46
88-06-2	2,4,6-Trichlorophenol	46	U	390	46
95-95-4	2,4,5-Trichlorophenol	51	U	390	51
92-52-4	Diphenyl	52	U	390	52
91-58-7	2-Chloronaphthalene	44	U	390	44
88-74-4	2-Nitroaniline	160	UJ	790	160
606-20-2	2,6-Dinitrotoluene	12	U	79	12
131-11-3	Dimethyl phthalate	46	U	390	46
208-96-8	Acenaphthylene	46	U	390	46
99-09-2	3-Nitroaniline	140	U	790	140
83-32-9	Acenaphthene	57	U	390	57

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: p34043.d

Analysis Method: 8270C | Date Collected: 01/22/2013 15:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.03(g) | Date Analyzed: 01/25/2013 10:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-02-7	4-Nitrophenol	250	U	1200	250
51-28-5	2,4-Dinitrophenol	220	U	1200	220
132-64-9	Dibenzofuran	46	U	390	46
84-66-2	Diethyl phthalate	47	U	390	47
86-73-7	Fluorene	50	U	390	50
206-44-0	Fluoranthene	270	J	390	52
84-74-2	Di-n-butyl phthalate	48	U	390	48
121-14-2	2,4-Dinitrotoluene	13	U	79	13
7005-72-3	4-Chlorophenyl phenyl ether	46	U	390	46
100-01-6	4-Nitroaniline	120	UJ	790	120
534-52-1	4,6-Dinitro-2-methylphenol	110	U	1200	110
101-55-3	4-Bromophenyl phenyl ether	39	U	390	39
1912-24-9	Atrazine	60	U	390	60
120-12-7	Anthracene	100	J	390	48
86-74-8	Carbazole	46	U	390	46
85-01-8	Phenanthrene	250	J	390	50
87-86-5	Pentachlorophenol	120	U	1200	120
129-00-0	Pyrene	310	J	390	33
218-01-9	Chrysene	190	J	390	46
207-08-9	Benzo[k]fluoranthene	60		39	3.0
191-24-2	Benzo[g,h,i]perylene	65	J	390	29
205-99-2	Benzo[b]fluoranthene	120		39	2.5
50-32-8	Benzo[a]pyrene	150		39	2.8
56-55-3	Benzo[a]anthracene	170		39	2.7
86-30-6	N-Nitrosodiphenylamine	39	U	390	39
85-68-7	Butyl benzyl phthalate	36	U	390	36
117-81-7	Bis(2-ethylhexyl) phthalate	130	U	390	130
117-84-0	Di-n-octyl phthalate	25	U	390	25
193-39-5	Indeno[1,2,3-cd]pyrene	52		39	7.3
53-70-3	Dibenz(a,h)anthracene	4.9	U	39	4.9
91-94-1	3,3'-Dichlorobenzidine	140	U	790	140
95-94-3	1,2,4,5-Tetrachlorobenzene	53	U	390	53
58-90-2	2,3,4,6-Tetrachlorophenol	51	U	390	51

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: SB-35 (44-45) | Lab Sample ID: 460-49827-5

Matrix: Solid | Lab File ID: p34043.d

Analysis Method: 8270C | Date Collected: 01/22/2013 15:00

Extract. Method: 3541 | Date Extracted: 01/24/2013 10:16

Sample wt/vol: 15.03(g) | Date Analyzed: 01/25/2013 10:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 144835 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		38-105
4165-62-2	Phenol-d5	76		41-118
1718-51-0	Terphenyl-d14	90		16-151
118-79-6	2,4,6-Tribromophenol	72		10-120
367-12-4	2-Fluorophenol	71		37-125
321-60-8	2-Fluorobiphenyl	77		40-109

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	TestAmerica Edison	Job No.:	460-49827-1
SDG No.:			
Client Sample ID:	SB-35 (44-45)	Lab Sample ID:	460-49827-5
Matrix:	Solid	Lab File ID:	p34043.d
Analysis Method:	8270C	Date Collected:	01/22/2013 15:00
Extract. Method:	3541	Date Extracted:	01/24/2013 10:16
Sample wt/vol:	15.03(g)	Date Analyzed:	01/25/2013 10:03
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1(uL)	Level: (low/med)	Low
% Moisture:	15.7	GPC Cleanup:(Y/N)	N
Analysis Batch No.:	144835	Units:	ug/Kg
Number TICs Found:	0	TIC Result Total:	0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

Appendix C

Support Documentation

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-49238-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-49238-1	SB-32 (64-66)	Solid	01/08/2013 1000	01/09/2013 1725

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of ___

Name (for report and invoice): JENNIFER PFEIFFER	Samplers Name (Printed): S. WRIGHT	Site/Project Identification: NATIONAL GRID - EQUITY
Company: AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address: 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☒	
City: MANHATTAN State: NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 212-510-2100 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 49238

Sample Identification	Date	Time	Matrix	No. of Cont.	8260	8270	Sample Numbers
SB-32 (64-66)	1-8-13	1000	SOIL	5	X	X	1

Short Hold
Terra

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

	8260	8270
Soil:	1	1
Water:		

Special Instructions

Water Metals Filtered (Yes/No)? ___

	Company	Date / Time	Received by	Company
Relinquished by 1)	AECOM	1/9/13 14:39	1) RADZA MAJTOV	T.A. N.Y.C.
Relinquished by 2) RADZA MAJTOV	T.A. N.Y.C.	1/9/13 17:25	2)	
Relinquished by 3)	Company	Date / Time	Received by 3)	Company 1/9/2013
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0408)

1.0/1.4 IR#4 NOCs.

01/21/2013

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 49238

Number of Coolers: 1 IR Gun #: 1

Temp. Cooler #1 (Deg C) (Raw/Corrected): 1.2/1.9 | Temp. Cooler #4 (Deg C) (Raw/Corrected): | Temp. Cooler #7 (Deg C) (Raw/Corrected):

Temp. Cooler #2 (Deg C) (Raw/Corrected): | Temp. Cooler #5 (Deg C) (Raw/Corrected): | Temp. Cooler #8 (Deg C) (Raw/Corrected):

Temp. Cooler #3 (Deg C) (Raw/Corrected): | Temp. Cooler #6 (Deg C) (Raw/Corrected): | Temp. Cooler #9 (Deg C) (Raw/Corrected):

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: C Hall Date: 1/9/13

01/21/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-49238-1

Login Number: 49238
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4° C IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143364/5

Matrix: Solid | Lab File ID: k08654.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/16/2013 08:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.160	J	1.0	0.15
67-64-1	Acetone	2.39	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
179601-23-1	m&p-Xylene	0.59	U	2.0	0.59
95-47-6	o-Xylene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49238-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143364/5

Matrix: Solid | Lab File ID: k08654.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/16/2013 08:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130
460-00-4	Bromofluorobenzene	115		70-130

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-143364/2 Calibration Date: 01/16/2013 06:23

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08650.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.5179	0.4597		17.8	20.0	-11.2	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.0952	0.0974		40.9	40.0	2.3	50.0
n-Butanol	Ave	0.0061	0.0047		1140	1500	-24.3	50.0
Trichloroethene	Ave	0.3341	0.3172		19.0	20.0	-5.1	50.0
Ethyl acrylate	Ave	0.0179	0.0144		16.1	20.0	-19.6	50.0
Methylcyclohexane	Ave	0.5900	0.6220		21.1	20.0	5.4	50.0
1,2-Dichloropropane	Ave	0.3431	0.3135		18.3	20.0	-8.6	20.0
Methyl methacrylate	LinF	0.2240	0.1909		16.1	20.0	-19.4	50.0
1,4-Dioxane	Ave	0.0043	0.0045		156	150	4.0	50.0
Propyl acetate	LinF	0.5303	0.4178		14.7	20.0	-26.5	50.0
Dibromomethane	Ave	0.2304	0.1937		16.8	20.0	-16.0	50.0
Bromodichloromethane	Ave	0.4467	0.4082		18.3	20.0	-8.6	50.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.1795		18.4	20.0	-7.9	50.0
Epichlorohydrin	Ave	0.0347	0.0288		331	400	-17.2	50.0
cis-1,3-Dichloropropene	Ave	0.5129	0.4249		16.6	20.0	-17.2	50.0
4-Methyl-2-pentanone	Ave	0.3495	0.3224		18.4	20.0	-7.8	50.0
Toluene	Ave	1.982	1.812		18.3	20.0	-8.6	20.0
trans-1,3-Dichloropropene	Ave	0.6766	0.5292		15.6	20.0	-21.8	50.0
1,1,2-Trichloroethane	Ave	0.3571	0.3060		17.1	20.0	-14.3	50.0
Tetrachloroethene	Ave	0.4257	0.4091		19.2	20.0	-3.9	50.0
1,3-Dichloropropane	Ave	0.6490	0.5841		18.0	20.0	-10.0	50.0
2-Hexanone	Ave	0.3561	0.3137		17.6	20.0	-11.9	50.0
Butyl acetate	Ave	0.8321	0.6587		31.7	40.0	-20.8	50.0
Dibromochloromethane	Ave	0.3798	0.3692		19.4	20.0	-2.8	50.0
1,2-Dibromoethane	Ave	0.3995	0.3436		17.2	20.0	-14.0	50.0
Chlorobenzene	Ave	1.181	1.076	0.3000	18.2	20.0	-8.9	50.0
Ethylbenzene	Ave	0.6604	0.5956		18.0	20.0	-9.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4541	0.3667		16.2	20.0	-19.2	50.0
m&p-Xylene	Ave	0.8519	0.7583		35.6	40.0	-11.0	50.0
Butyl acrylate	Ave	1.724	1.336		15.5	20.0	-22.5	50.0
o-Xylene	Ave	0.8512	0.7598		17.9	20.0	-10.7	50.0
Styrene	Ave	1.418	1.202		17.0	20.0	-15.2	50.0
Amly acetate	Ave	0.8965	0.6828		15.2	20.0	-23.8	50.0
Bromoform	LinF	0.2634	0.2229	0.1000	12.0	20.0	-39.8	50.0
Isopropylbenzene	Ave	2.267	2.050		18.1	20.0	-9.5	50.0
Camphene, Total	Ave	0.5395	0.5544		20.6	20.0	2.8	50.0
Monobromobenzene	Ave	0.9411	0.8679		18.4	20.0	-7.8	50.0
1,1,2,2-Tetrachloroethane	Ave	1.060	0.9384	0.3000	17.7	20.0	-11.5	50.0
N-Propylbenzene	Ave	5.041	4.878		19.4	20.0	-3.2	50.0
1,2,3-Trichloropropane	Ave	0.2802	0.2504		17.9	20.0	-10.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1118	0.0885		15.8	20.0	-20.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-143364/2 Calibration Date: 01/16/2013 06:23

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08650.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	3.530	3.190		18.1	20.0	-9.6	50.0
p-Ethyltoluene	Ave	1.533	1.437		18.8	20.0	-6.2	50.0
1,3,5-Trimethylbenzene	Ave	3.524	3.221		18.3	20.0	-8.6	50.0
4-Chlorotoluene	Ave	2.992	2.698		18.0	20.0	-9.8	50.0
Butyl Methacrylate	Ave	1.405	1.110		15.8	20.0	-21.0	50.0
tert-Butylbenzene	Ave	2.785	2.526		18.1	20.0	-9.3	50.0
1,2,4-Trimethylbenzene	Ave	3.535	3.281		18.6	20.0	-7.2	50.0
sec-Butylbenzene	Ave	4.601	4.441		19.3	20.0	-3.5	50.0
p-Isopropyltoluene	Ave	3.792	3.551		18.7	20.0	-6.3	50.0
1,3-Dichlorobenzene	Ave	2.002	1.745		17.4	20.0	-12.8	50.0
1,4-Dichlorobenzene	Ave	1.968	1.766		17.9	20.0	-10.3	50.0
Benzyl chloride	Ave	1.883	1.191		12.7	20.0	-36.7	50.0
1,4-Diethylbenzene	Ave	0.8776	0.8412		19.2	20.0	-4.2	50.0
n-Butylbenzene	Ave	4.845	4.799		19.8	20.0	-1.0	50.0
1,2-Dichlorobenzene	Ave	1.898	1.702		17.9	20.0	-10.3	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.312	1.230		18.7	20.0	-6.3	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.2219	0.1709		16.4	20.0	-18.0	50.0
Camphor	LinF	0.1299	0.1012		77.6	100	-22.4	50.0
1,2,4-Trichlorobenzene	Ave	1.355	1.220		18.0	20.0	-10.0	50.0
Hexachlorobutadiene	Ave	0.6349	0.5920		18.6	20.0	-6.8	50.0
Naphthalene	Ave	3.451	3.032		17.6	20.0	-12.1	50.0
1,2,3-Trichlorobenzene	Ave	1.339	1.198		17.9	20.0	-10.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3203	0.3055		47.7	50.0	-4.6	50.0
Toluene-d8 (Surr)	Ave	1.190	1.184		49.7	50.0	-0.5	50.0
Bromofluorobenzene	Ave	0.7736	0.7674		49.6	50.0	-0.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-143364/2 Calibration Date: 01/16/2013 06:23

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08650.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3617	0.3819		21.1	20.0	5.6	50.0
Chloromethane	QuaF	0.8134	0.8055	0.1000	20.0	20.0	-0.1	50.0
Vinyl chloride	Ave	0.6475	0.6841		21.1	20.0	5.7	20.0
Bromomethane	Ave	0.4932	0.6008		24.4	20.0	21.8	50.0
Chloroethane	Ave	0.5452	0.6211		22.8	20.0	13.9	50.0
Dichlorofluoromethane	QuaF	1.830	2.249		27.1	20.0	35.4	50.0
n-Pentane	QuaF	0.1309	0.1645		53.7	40.0	34.4	50.0
Trichlorofluoromethane	Ave	1.184	1.454		24.6	20.0	22.8	50.0
Ethanol	Ave	0.0045	0.0049		3200	3000	6.8	50.0
Ethyl ether	QuaF	0.6286	0.6920		24.2	20.0	21.0	50.0
Isopropene	Ave	0.9660	1.195		24.7	20.0	23.7	50.0
Freon TF	LinF	0.4702	0.4225		19.6	20.0	-1.9	50.0
1,1-Dichloroethene	LinF	0.3591	0.3361		20.8	20.0	4.0	20.0
Acetone	Ave	0.1507	0.1537		20.4	20.0	1.9	50.0
Iodomethane	Ave	0.6057	0.6799		22.5	20.0	12.3	50.0
Carbon disulfide	Ave	1.217	1.302		21.4	20.0	6.9	50.0
Methyl acetate	LinF	0.0796	0.0710		19.7	20.0	-1.7	50.0
Acetonitrile	Ave	0.0470	0.0487		414	400	3.6	50.0
Methylene Chloride	LinF	0.3906	0.3536		19.3	20.0	-3.4	50.0
TBA	LinF	0.0518	0.0391		301	400	-24.7	50.0
MTBE	Ave	1.107	0.997		18.0	20.0	-9.9	50.0
trans-1,2-Dichloroethene	Ave	0.3239	0.3077		19.0	20.0	-5.0	50.0
Acrylonitrile	Ave	0.1221	0.1204		148	150	-1.4	50.0
Hexane	LinF	0.2851	0.2970		24.4	20.0	22.0	50.0
DIPE	Ave	1.299	1.319		20.3	20.0	1.6	50.0
1,1-Dichloroethane	Ave	0.6638	0.6213	0.1000	18.7	20.0	-6.4	50.0
Vinyl acetate	Ave	1.010	0.9077		35.9	40.0	-10.1	50.0
Tert-butyl ethyl ether	Ave	1.182	1.133	0.0100	19.2	20.0	-4.2	50.0
2,2-Dichloropropane	Ave	0.5116	0.4212		16.5	20.0	-17.7	50.0
cis-1,2-Dichloroethene	Ave	0.3682	0.3418		18.6	20.0	-7.2	50.0
2-Butanone	Ave	0.0412	0.0415		20.1	20.0	0.7	50.0
Ethyl acetate	Ave	0.0354	0.0305		34.6	40.0	-13.6	50.0
Bromochloromethane	Ave	0.1669	0.1581		18.9	20.0	-5.3	50.0
Chloroform	Ave	0.6463	0.6021		18.6	20.0	-6.8	20.0
Cyclohexane	Ave	0.5702	0.5805		20.4	20.0	1.8	50.0
1,1,1-Trichloroethane	Ave	0.5104	0.4909		19.2	20.0	-3.8	50.0
Carbon tetrachloride	Ave	0.4050	0.3686		18.2	20.0	-9.0	50.0
1,1-Dichloropropene	Ave	0.4066	0.3885		19.1	20.0	-4.5	50.0
Benzene	Ave	1.316	1.252		19.0	20.0	-4.9	50.0
Isopropyl acetate	Ave	1.018	0.8885		34.9	40.0	-12.7	50.0
Tert-amyl methyl ether	Ave	1.040	0.8969		17.2	20.0	-13.8	50.0

FORM VII 8260B

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-143034/3	k08532.d
Level 2	IC 460-143034/4	k08533.d
Level 3	ICIS 460-143034/2	k08527.d
Level 4	IC 460-143034/5	k08534.d
Level 5	IC 460-143034/6	k08535.d
Level 6	IC 460-143034/7	k08536.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4070 0.2915	0.4044	0.3819	0.3629	0.3226	Ave		0.3617				12.8		15.0			
Chloromethane	1.0620 0.6199	0.9123	0.8244	0.7443	0.7173	QuaF		1.2198	0.0634						0.9999		0.9900
Vinyl chloride	0.6890 0.5365	0.6840	0.6984	0.6550	0.6219	Ave		0.6475				9.4		30.0			
Bromomethane	0.5409 0.3676	0.5546	0.4805	0.5368	0.4786	Ave		0.4932				14.1		15.0			
Chloroethane	0.5797 +++++	0.5836	0.5250	0.5418	0.4959	Ave		0.5452				6.8		15.0			
Dichlorofluoromethane	2.3326 1.3655	2.0978	1.9165	1.7599	1.5085	QuaF		0.5929	0.0103						0.9999		0.9900
Trichlorofluoromethane	1.1554 0.9741	1.2818	1.2912	1.2846	1.1178	Ave		1.1842				10.7		15.0			
n-Pentane	0.1182 0.1052	0.1717	0.1429	0.1340	0.1131	QuaF		8.0795	0.6848						0.9998		0.9900
Ethanol	0.0050 0.0045	0.0048	0.0044	0.0045	0.0040	Ave		0.0045				8.1		15.0			
Ethyl ether	0.7593 0.4692	0.7946	0.6378	0.5905	0.5203	QuaF		1.7252	0.0868						0.9999		0.9900
Isopropene	1.0637 0.8073	1.0796	1.0116	0.9805	0.8536	Ave		0.9660				11.6		15.0			
Freon TF	0.5018 0.4389	0.5278	0.4311	0.5699	0.3515	LinF		0.4306							0.9911		0.9900
1,1-Dichloroethene	0.4085 0.3292	0.4186	0.3144	0.4144	0.2692	LinF		0.3233							0.9927		0.9900
Acetone	0.1371 0.1211	0.1576	0.1859	0.1430	0.1596	Ave		0.1507				14.8		15.0			
Iodomethane	0.7182 0.5426	0.6618	0.6179	0.5689	0.5247	Ave		0.6057				12.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	1.4536 1.0857	1.3031	1.2581	1.1380	1.0659	Ave		1.2174				12.3		15.0			
Methyl acetate	0.1149 0.0727	0.0847	0.0704	0.0655	0.0697	LinF		0.0722							0.9996		0.9900
Acetonitrile	0.0523 0.0532	0.0354	0.0487	0.0453	0.0469	Ave		0.0470				13.7		15.0			
Methylene Chloride	0.5231 0.3685	0.4045	0.3418	0.3527	0.3528	LinF		0.3663							0.9996		0.9900
TBA	0.0694 0.0526	0.0473	0.0485	0.0449	0.0482	LinF		0.0520							0.9984		0.9900
MTBE	1.3333 1.1352	1.1290	1.0109	0.9845	1.0493	Ave		1.1070				11.4		15.0			
trans-1,2-Dichloroethene	0.3390 0.3384	0.3276	0.3123	0.3107	0.3153	Ave		0.3239				4.0		15.0			
Acrylonitrile	0.1341 0.1159	0.1286	0.1175	0.1200	0.1166	Ave		0.1221				6.1		15.0			
Hexane	0.3869 0.2436	0.3027	0.2837	0.2519	0.2416	LinF		0.2435							0.9999		0.9900
DIPE	1.4314 1.3368	1.3092	1.2760	1.2091	1.2292	Ave		1.2986				6.2		15.0			
1,1-Dichloroethane	0.6947 0.7035	0.6715	0.6274	0.6342	0.6513	Ave		0.6638			0.1000	4.7		15.0			
Vinyl acetate	1.0025 1.0618	1.0791	1.0524	0.9109	0.9536	Ave		1.0100				6.6		15.0			
Tert-butyl ethyl ether	1.4090 1.1525	1.2272	1.1725	1.0663	1.0625	Ave		1.1817				10.9		15.0			
2,2-Dichloropropane	0.5754 0.5095	0.5176	0.5059	0.4890	0.4723	Ave		0.5116				6.9		15.0			
cis-1,2-Dichloroethene	0.4069 0.3856	0.3776	0.3409	0.3457	0.3524	Ave		0.3682				7.1		15.0			
2-Butanone	0.0364 0.0444	0.0387	0.0422	0.0418	0.0436	Ave		0.0412				7.5		15.0			
Ethyl acetate	0.0373 0.0388	0.0383	0.0330	0.0312	0.0335	Ave		0.0354				9.0		15.0			
Bromochloromethane	0.1790 0.1751	0.1816	0.1499	0.1570	0.1589	Ave		0.1669				8.0		15.0			
Chloroform	0.7004 0.6631	0.6592	0.5918	0.6249	0.6384	Ave		0.6463				5.7		30.0			
Cyclohexane	0.5825 0.5986	0.5963	0.5679	0.5246	0.5511	Ave		0.5702				5.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	0.5132 0.5456	0.4971	0.4897	0.5068	0.5097	Ave		0.5104				3.8		15.0			
Carbon tetrachloride	0.4261 0.4191	0.3915	0.4021	0.3936	0.3979	Ave		0.4050				3.5		15.0			
1,1-Dichloropropene	0.4380 0.4016	0.4122	0.3990	0.3986	0.3902	Ave		0.4066				4.2		15.0			
Benzene	1.3217 1.3982	1.2891	1.2637	1.2911	1.3321	Ave		1.3160				3.6		15.0			
Isopropyl acetate	1.3042 1.0042	1.0254	0.9511	0.8768	0.9461	Ave		1.0180				14.7		15.0			
Tert-amyl methyl ether	1.1129 1.1375	0.9966	0.9922	0.9694	1.0318	Ave		1.0401				6.7		15.0			
1,2-Dichloroethane	0.5710 0.5274	0.5133	0.4780	0.4973	0.5201	Ave		0.5179				6.1		15.0			
2,4,4-Trimethyl-1-pentene	0.0989 0.1054	0.0908	0.0943	0.0859	0.0961	Ave		0.0952				7.0		15.0			
n-Butanol	0.0058 +++++	0.0059	0.0058	0.0061	0.0073	Ave		0.0061				10.2		15.0			
Trichloroethene	0.3377 0.3664	0.3199	0.3139	0.3304	0.3364	Ave		0.3341				5.5		15.0			
Ethyl acrylate	0.0176 0.0201	0.0210	0.0158	0.0152	0.0174	Ave		0.0179				13.0		15.0			
Methylcyclohexane	0.6195 0.5947	0.6054	0.5900	0.5520	0.5782	Ave		0.5900				4.0		15.0			
1,2-Dichloropropane	0.3981 0.3641	0.3464	0.3053	0.3195	0.3248	Ave		0.3431				9.9		30.0			
Methyl methacrylate	0.2898 0.2413	0.2205	0.1975	0.1883	0.2068	LinF		0.2367							0.9956		0.9900
1,4-Dioxane	0.0044 0.0046	0.0043	0.0033	0.0041	0.0049	Ave		0.0043				12.7		15.0			
Propyl acetate	0.6884 0.5791	0.5088	0.4624	0.4424	0.5008	LinF		0.5686							0.9959		0.9900
Dibromomethane	0.2775 0.2384	0.2342	0.2047	0.2100	0.2177	Ave		0.2304				11.5		15.0			
Bromodichloromethane	0.4982 0.4762	0.4314	0.4113	0.4204	0.4428	Ave		0.4467				7.6		15.0			
2-Chloroethyl vinyl ether	0.2025 0.2097	0.2056	0.1894	0.1725	0.1896	Ave		0.1949				7.1		15.0			
Epichlorohydrin	0.0407 0.0379	0.0349	0.0318	0.0299	0.0332	Ave		0.0347				11.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,3-Dichloropropene	0.5626 0.5729	0.4957	0.4666	0.4744	0.5053	Ave		0.5129				8.7		15.0			
4-Methyl-2-pentanone	0.3287 0.3958	0.3407	0.3394	0.3341	0.3586	Ave		0.3495				7.1		15.0			
Toluene	1.9566 2.2244	1.9192	1.8163	1.9335	2.0445	Ave		1.9824				7.0		30.0			
trans-1,3-Dichloropropene	0.7820 0.7400	0.6315	0.5991	0.6386	0.6681	Ave		0.6766				10.4		15.0			
1,1,2-Trichloroethane	0.4221 0.3640	0.3483	0.3192	0.3452	0.3440	Ave		0.3571				9.8		15.0			
Tetrachloroethene	0.4253 0.4677	0.4292	0.3915	0.4208	0.4196	Ave		0.4257				5.8		15.0			
1,3-Dichloropropane	0.7100 0.6690	0.6487	0.5969	0.6376	0.6315	Ave		0.6490				5.9		15.0			
2-Hexanone	0.3338 0.3927	0.3398	0.3670	0.3395	0.3635	Ave		0.3561				6.3		15.0			
Butyl acetate	0.9379 0.9193	0.7834	0.7830	0.7493	0.8198	Ave		0.8321				9.4		15.0			
Dibromochloromethane	0.3120 +++++	0.3856	0.3649	0.3991	0.4375	Ave		0.3798				12.2		15.0			
1,2-Dibromoethane	0.4519 0.4071	0.3975	0.3575	0.3903	0.3928	Ave		0.3995				7.7		15.0			
Chlorobenzene	1.2960 1.3029	1.1303	1.0629	1.1385	1.1571	Ave		1.1813			0.3000	8.2		15.0			
Ethylbenzene	0.6673 0.7926	0.5993	0.5814	0.6348	0.6869	Ave		0.6604				11.5		30.0			
1,1,1,2-Tetrachloroethane	0.4751 0.5617	0.4100	0.3692	0.4277	0.4808	Ave		0.4541				14.8		15.0			
m&p-Xylene	0.8136 1.0331	0.7722	0.7468	0.8222	0.9235	Ave		0.8519				12.6		15.0			
Butyl acrylate	2.0822 1.6707	1.8232	1.7880	1.5880	1.3895	Ave		1.7236				13.6		15.0			
o-Xylene	0.7908 1.0422	0.7835	0.7595	0.8105	0.9209	Ave		0.8512				12.8		15.0			
Styrene	1.3641 1.7013	1.2348	1.2239	1.3685	1.6137	Ave		1.4177				13.9		15.0			
Amly acetate	0.9048 1.0092	0.8746	0.8405	0.8290	0.9206	Ave		0.8965				7.3		15.0			
Bromoform	0.2312 0.3798	0.2136	0.2092	0.2451	0.3012	LinF		0.3701			0.1000				0.9900		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropylbenzene	2.0129 2.7248	2.0250	2.0243	2.2227	2.5900	Ave		2.2666				13.9		15.0			
Camphene, Total	0.5550 0.4616	0.6116	0.6170	0.5396	0.4519	Ave		0.5395				13.2		15.0			
Monobromobenzene	1.1096 0.9754	0.9326	0.8947	0.9026	0.8316	Ave		0.9411				10.1		15.0			
1,1,2,2-Tetrachloroethane	1.2793 1.0319	1.0937	1.0035	1.0463	0.9072	Ave		1.0603			0.3000	11.7		15.0			
N-Propylbenzene	5.2530 4.5589	5.2929	5.1573	5.1795	4.8041	Ave		5.0410				5.8		15.0			
1,2,3-Trichloropropane	0.3006 0.2718	0.3088	0.2699	0.2751	0.2551	Ave		0.2802				7.3		15.0			
trans-1,4-Dichloro-2-butene	0.1282 0.1186	0.1107	0.1032	0.0959	0.1140	Ave		0.1118				10.2		15.0			
2-Chlorotoluene	3.6125 3.7111	3.5166	3.4150	3.5384	3.3864	Ave		3.5300				3.4		15.0			
p-Ethyltoluene	1.5045 1.7375	1.4187	1.3937	1.3977	1.7446	Ave		1.5328				10.8		15.0			
1,3,5-Trimethylbenzene	3.5552 3.6694	3.5153	3.3997	3.5400	3.4639	Ave		3.5239				2.6		15.0			
4-Chlorotoluene	3.3272 2.9275	3.0288	2.9134	2.9839	2.7717	Ave		2.9921				6.2		15.0			
Butyl Methacrylate	1.4708 1.4635	1.3499	1.4120	1.3632	1.3687	Ave		1.4047				3.8		15.0			
tert-Butylbenzene	2.6337 3.1256	2.6449	2.6456	2.8144	2.8445	Ave		2.7848				6.9		15.0			
1,2,4-Trimethylbenzene	3.5301 3.5692	3.5234	3.4519	3.6120	3.5246	Ave		3.5352				1.5		15.0			
sec-Butylbenzene	4.5557 4.2526	4.4865	4.6250	4.9200	4.7638	Ave		4.6006				5.0		15.0			
p-Isopropyltoluene	3.5877 3.8141	3.5296	3.6801	4.0600	4.0799	Ave		3.7919				6.2		15.0			
1,3-Dichlorobenzene	2.1039 2.2776	1.8587	1.8267	1.9703	1.9735	Ave		2.0018				8.3		15.0			
1,4-Dichlorobenzene	2.3259 1.9719	1.9770	1.8187	1.8723	1.8428	Ave		1.9681				9.5		15.0			
Benzyl chloride	1.8591 2.0434	1.7238	1.9927	1.8005	1.8755	Ave		1.8825				6.3		15.0			
1,4-Diethylbenzene	0.7992 1.0734	0.7732	0.7950	0.8079	1.0168	Ave		0.8776				15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 143034

SDG No.:

Instrument ID: VOAMS9 GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/12/2013 22:19 Calibration End Date: 01/13/2013 02:05 Calibration ID: 19739

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	4.8982 4.5349	4.7168	4.9439	5.2511	4.7228	Ave		4.8446				5.1		15.0			
1,2-Dichlorobenzene	1.9903 1.9504	1.9150	1.7804	1.9055	1.8454	Ave		1.8978				4.0		15.0			
1,2,4,5-Tetramethylbenzene	1.1981 1.5379	1.1823	1.1915	1.1783	1.5861	Ave		1.3124				14.8		15.0			
1,2-Dibromo-3-Chloropropane	0.3044 0.2107	0.2131	0.1998	0.2101	0.1930	LinF		0.2084							0.9987		0.9900
Camphor	0.1705 0.1334	0.1302	0.1244	0.1131	0.1076	LinF		0.1303							0.9927		0.9900
1,2,4-Trichlorobenzene	1.4956 1.5435	1.3135	1.2571	1.2706	1.2499	Ave		1.3550				9.6		15.0			
Hexachlorobutadiene	0.7125 0.7682	0.6084	0.6037	0.5990	0.5174	Ave		0.6349				14.2		15.0			
Naphthalene	3.8718 3.5879	3.4059	3.2767	3.3446	3.2213	Ave		3.4514				7.0		15.0			
1,2,3-Trichlorobenzene	1.5665 1.4682	1.3342	1.2458	1.2524	1.1645	Ave		1.3386				11.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3108 0.3282	0.3168	0.3171	0.3150	0.3338	Ave		0.3203				2.7		15.0			
Toluene-d8 (Surr)	1.1601 1.2606	1.1737	1.1377	1.1972	1.2121	Ave		1.1903				3.6		15.0			
Bromofluorobenzene	0.8263 0.7981	0.8151	0.7860	0.7562	0.6601	Ave		0.7736				7.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: k08651.d

Lab ID: LCS 460-143364/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	19.1	95	50-151	
Bromomethane	20.0	23.6	118	54-142	
Vinyl chloride	20.0	20.6	103	67-133	
Chloroethane	20.0	21.0	105	56-146	
Methylene Chloride	20.0	21.1	106	74-137	
Acetone	20.0	17.2	86	27-164	
Carbon disulfide	20.0	22.3	112	72-128	
Trichlorofluoromethane	20.0	24.6	123	61-139	
1,1-Dichloroethene	20.0	24.3	121	71-126	
1,1-Dichloroethane	20.0	19.6	98	76-125	
trans-1,2-Dichloroethene	20.0	20.9	105	75-122	
cis-1,2-Dichloroethene	20.0	19.4	97	80-120	
Chloroform	20.0	19.6	98	77-120	
2-Butanone	20.0	22.7	114	77-117	
1,2-Dichloroethane	20.0	19.2	96	76-118	
1,1,1-Trichloroethane	20.0	20.1	101	78-117	
Carbon tetrachloride	20.0	18.4	92	79-118	
Benzene	20.0	20.3	102	77-117	
Bromoform	20.0	12.1	60	59-125	
Styrene	20.0	17.8	89	82-122	
m&p-Xylene	40.0	35.9	90	81-121	
o-Xylene	20.0	18.0	90	82-122	
Ethylbenzene	20.0	18.6	93	81-121	
Chlorobenzene	20.0	18.5	93	80-120	
Cyclohexane	20.0	22.2	111	80-121	
Isopropylbenzene	20.0	18.4	92	65-129	
2-Hexanone	20.0	18.7	93	70-122	
MTBE	20.0	19.8	99	78-120	
Freon TF	20.0	21.1	106	73-123	
Methyl acetate	20.0	21.8	109	73-137	
1,4-Dioxane	150	145	97	69-131	
Trichloroethene	20.0	19.8	99	79-119	
Toluene	20.0	19.0	95	75-115	
trans-1,3-Dichloropropene	20.0	16.0	80	67-121	
4-Methyl-2-pentanone	20.0	19.8	99	68-120	
cis-1,3-Dichloropropene	20.0	17.6	88	80-123	
1,2-Dichlorobenzene	20.0	19.1	96	80-120	
1,3-Dichlorobenzene	20.0	18.3	91	80-120	
1,4-Dichlorobenzene	20.0	18.6	93	80-120	
1,2,4-Trichlorobenzene	20.0	18.9	95	80-120	
1,2,3-Trichlorobenzene	20.0	18.4	92	75-121	
1,2-Dichloropropane	20.0	19.2	96	82-122	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: k08651.d

Lab ID: LCS 460-143364/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Methylcyclohexane	20.0	22.2	111	78-118	
Tetrachloroethene	20.0	19.3	96	80-120	
1,2-Dibromo-3-Chloropropane	20.0	16.5	82	74-118	
1,1,2,2-Tetrachloroethane	20.0	19.0	95	79-122	
1,1,2-Trichloroethane	20.0	17.9	89	73-118	
Dibromochloromethane	20.0	20.0	100	68-120	
1,2-Dibromoethane	20.0	18.2	91	75-117	
Dichlorodifluoromethane	20.0	20.9	105	52-144	
Bromochloromethane	20.0	19.6	98	74-125	
Bromodichloromethane	20.0	19.5	97	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: k08652.d

Lab ID: LCSD 460-143364/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	20.0	21.8	109	13	30	50-151	
Bromomethane	20.0	26.0	130	10	30	54-142	
Vinyl chloride	20.0	24.5	123	18	30	67-133	
Chloroethane	20.0	23.3	117	11	30	56-146	
Methylene Chloride	20.0	23.7	118	11	30	74-137	
Acetone	20.0	26.8	134	44	30	27-164	*
Carbon disulfide	20.0	20.0	100	11	30	72-128	
Trichlorofluoromethane	20.0	27.6	138	11	30	61-139	
1,1-Dichloroethene	20.0	24.8	124	2	30	71-126	
1,1-Dichloroethane	20.0	21.5	108	9	30	76-125	
trans-1,2-Dichloroethene	20.0	22.4	112	7	30	75-122	
cis-1,2-Dichloroethene	20.0	21.8	109	12	30	80-120	
Chloroform	20.0	21.7	109	10	30	77-120	
2-Butanone	20.0	20.2	101	12	30	77-117	
1,2-Dichloroethane	20.0	21.2	106	10	30	76-118	
1,1,1-Trichloroethane	20.0	22.3	112	11	30	78-117	
Carbon tetrachloride	20.0	20.8	104	12	30	79-118	
Benzene	20.0	22.4	112	10	30	77-117	
Bromoform	20.0	12.9	65	7	30	59-125	
Styrene	20.0	19.7	98	10	30	82-122	
m&p-Xylene	40.0	40.1	100	11	30	81-121	
o-Xylene	20.0	20.4	102	13	30	82-122	
Ethylbenzene	20.0	20.2	101	8	30	81-121	
Chlorobenzene	20.0	21.2	106	14	30	80-120	
Cyclohexane	20.0	20.9	104	6	30	80-121	
Isopropylbenzene	20.0	20.8	104	12	30	65-129	
2-Hexanone	20.0	20.0	100	7	30	70-122	
MTBE	20.0	20.5	103	3	30	78-120	
Freon TF	20.0	21.5	108	2	30	73-123	
Methyl acetate	20.0	19.7	99	10	30	73-137	
1,4-Dioxane	150	166	111	13	30	69-131	
Trichloroethene	20.0	21.9	110	10	30	79-119	
Toluene	20.0	21.1	105	11	30	75-115	
trans-1,3-Dichloropropene	20.0	18.6	93	15	30	67-121	
4-Methyl-2-pentanone	20.0	20.5	103	4	30	68-120	
cis-1,3-Dichloropropene	20.0	19.6	98	11	30	80-123	
1,2-Dichlorobenzene	20.0	21.0	105	9	30	80-120	
1,3-Dichlorobenzene	20.0	20.7	103	12	30	80-120	
1,4-Dichlorobenzene	20.0	20.5	103	10	30	80-120	
1,2,4-Trichlorobenzene	20.0	20.4	102	7	30	80-120	
1,2,3-Trichlorobenzene	20.0	20.4	102	10	30	75-121	
1,2-Dichloropropane	20.0	20.9	105	9	30	82-122	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: k08652.d

Lab ID: LCSD 460-143364/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methylcyclohexane	20.0	20.9	105	6	30	78-118	
Tetrachloroethene	20.0	22.2	111	14	30	80-120	
1,2-Dibromo-3-Chloropropane	20.0	19.3	96	16	30	74-118	
1,1,2,2-Tetrachloroethane	20.0	21.1	105	10	30	79-122	
1,1,2-Trichloroethane	20.0	18.9	95	6	30	73-118	
Dibromochloromethane	20.0	22.3	111	11	30	68-120	
1,2-Dibromoethane	20.0	20.6	103	12	30	75-117	
Dichlorodifluoromethane	20.0	24.3	122	15	30	52-144	
Bromochloromethane	20.0	22.2	111	12	30	74-125	
Bromodichloromethane	20.0	21.0	105	7	30	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-142879/2 Calibration Date: 01/11/2013 09:49

Instrument ID: BNAMS4 Calib Start Date: 01/08/2013 14:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/08/2013 16:03

Lab File ID: u83316.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4101	0.3556		43300	50000	-13.3	20.0
N-Nitrosodimethylamine	Ave	0.7343	0.6272		42700	50000	-14.6	20.0
Pyridine	Ave	1.051	0.9315		44300	50000	-11.4	20.0
Benzaldehyde	Ave	0.6943	0.4173		30100	50000	-39.9*	20.0
Aniline	Ave	2.031	1.968		48500	50000	-3.1	20.0
Phenol	Ave	1.972	1.930		48900	50000	-2.1	20.0
Bis(2-chloroethyl)ether	Ave	1.534	1.448		47200	50000	-5.6	20.0
2-Chlorophenol	Ave	1.383	1.310		47300	50000	-5.3	20.0
Decane	Ave	1.686	1.617		48000	50000	-4.1	20.0
1,3-Dichlorobenzene	Ave	1.511	1.524		50500	50000	0.9	20.0
1,4-Dichlorobenzene	Ave	1.536	1.436		46700	50000	-6.5	20.0
1,2-Dichlorobenzene	Ave	1.461	1.341		45900	50000	-8.2	20.0
Benzyl alcohol	Ave	0.9865	0.9378		47500	50000	-4.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.591	2.458		47400	50000	-5.1	20.0
2-Methylphenol	Ave	1.368	1.367		50000	50000	-0.0	20.0
Acetophenone	QuaF	2.069	1.996		55500	50000	11.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.179	1.203	0.0500	51000	50000	2.0	20.0
3 & 4 Methylphenol	Ave	1.421	1.317		46300	50000	-7.3	20.0
4-Methylphenol	Ave	1.415	1.317		46500	50000	-6.9	20.0
Hexachloroethane	Ave	0.7062	0.7024		49700	50000	-0.5	20.0
Nitrobenzene	Ave	0.6040	0.6098		50500	50000	1.0	20.0
n,n'-Dimethylaniline	Ave	1.865	1.743		46700	50000	-6.5	20.0
Isophorone	Ave	0.7749	0.8358		53900	50000	7.9	20.0
2-Nitrophenol	Ave	0.2181	0.2238		51300	50000	2.6	20.0
2,4-Dimethylphenol	Ave	0.3306	0.3422		51700	50000	3.5	20.0
Bis(2-chloroethoxy)methane	Ave	0.4699	0.4909		52200	50000	4.5	20.0
2,4-Dichlorophenol	Ave	0.3327	0.3698		55600	50000	11.1	20.0
Benzoic acid	QuaF	0.1163	0.1489		51200	50000	2.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3611	0.3604		49900	50000	-0.2	20.0
Naphthalene	Ave	1.007	1.017		50500	50000	0.9	20.0
4-Chloroaniline	Ave	0.3934	0.3964		50400	50000	0.8	20.0
Hexachlorobutadiene	Ave	0.2099	0.2194		52300	50000	4.5	20.0
Caprolactam	Ave	0.0883	0.1005		56900	50000	13.8	20.0
4-Chloro-3-methylphenol	Ave	0.3379	0.3786		56000	50000	12.0	20.0
2-Methylnaphthalene	Ave	0.6194	0.6660		53800	50000	7.5	20.0
1-Methylnaphthalene	Ave	0.6600	0.7197		54500	50000	9.0	20.0
Hexachlorocyclopentadiene	QuaF	0.2442	0.2782	0.0500	48800	50000	-2.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5793	0.5466		47200	50000	-5.6	20.0
2-tertbutyl-4-methylphenol	Ave	0.4720	0.5157		54600	50000	9.3	20.0
2,4,6-Trichlorophenol	Ave	0.3684	0.3759		51000	50000	2.1	20.0
2,4,5-Trichlorophenol	Ave	0.3669	0.3960		54000	50000	7.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-142879/2 Calibration Date: 01/11/2013 09:49

Instrument ID: BNAMS4 Calib Start Date: 01/08/2013 14:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/08/2013 16:03

Lab File ID: u83316.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	Ave	1.387	1.365		49200	50000	-1.6	20.0
2-Chloronaphthalene	Ave	1.105	1.071		48400	50000	-3.1	20.0
Diphenyl ether	Ave	0.7672	0.7307		47600	50000	-4.8	20.0
2-Nitroaniline	Ave	0.3949	0.4053		51300	50000	2.6	20.0
Dimethylnaphthalene, total	Ave	0.8878	0.9122		51400	50000	2.8	20.0
Dimethyl phthalate	Ave	1.168	1.197		51300	50000	2.5	20.0
Coumarin	Ave	0.2198	0.2656		60400	50000	20.9*	20.0
2,6-Dinitrotoluene	Ave	0.2821	0.3170		56200	50000	12.3	20.0
Acenaphthylene	Ave	1.639	1.653		50400	50000	0.9	20.0
3-Nitroaniline	Ave	0.2633	0.2848		54100	50000	8.2	20.0
Acenaphthene	Ave	0.9303	1.028		55200	50000	10.5	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	0.7892	0.7127		45200	50000	-9.7	20.0
2,4-Dinitrophenol	QuaF	0.0999	0.1689	0.0500	71900	50000	43.9*	20.0
Dibenzofuran	Ave	1.467	1.641		55900	50000	11.9	20.0
4-Nitrophenol	Ave	0.2354	0.3070	0.0500	65200	50000	30.4*	20.0
2,4-Dinitrotoluene	Ave	0.3494	0.3975		56900	50000	13.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2632	0.3100		58900	50000	17.8	20.0
Diethyl phthalate	Ave	1.122	1.174		52300	50000	4.6	20.0
Fluorene	Ave	1.107	1.260		56900	50000	13.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.4844	0.5160		53300	50000	6.5	20.0
4-Nitroaniline	Ave	0.2328	0.2813		60400	50000	20.9*	20.0
4,6-Dinitro-2-methylphenol	QuaF	0.1292	0.1525		54500	50000	8.9	20.0
N-Nitrosodiphenylamine	Ave	0.6146	0.5865		47700	50000	-4.6	20.0
1,2-Diphenylhydrazine	Ave	1.221	1.123		46000	50000	-8.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2526	0.2268		44900	50000	-10.2	20.0
Hexachlorobenzene	Ave	0.3376	0.3215		47600	50000	-4.8	20.0
Atrazine	Ave	0.1937	0.1829		47200	50000	-5.6	20.0
Pentachlorophenol	QuaF	0.1655	0.1937		52600	50000	5.2	20.0
Pentachloronitrobenzene	Ave	0.1086	0.1041		47900	50000	-4.2	
n-Octadecane	Ave	0.6797	0.5464		40200	50000	-19.6	20.0
Phenanthrene	Ave	1.140	1.075		47100	50000	-5.7	20.0
Anthracene	Ave	1.142	1.111		48600	50000	-2.7	20.0
Carbazole	Ave	0.9809	0.9913		50500	50000	1.1	20.0
Di-n-butyl phthalate	Ave	1.342	1.291		48100	50000	-3.8	20.0
Fluoranthene	Ave	0.9197	0.8166		44400	50000	-11.2	20.0
Benzidine	Ave	0.1913	0.1293		33800	50000	-32.4*	20.0
Pyrene	Ave	1.337	1.272		47600	50000	-4.8	20.0
Butyl benzyl phthalate	Ave	0.7415	0.7251		48900	50000	-2.2	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2456	0.2221		452	500	-9.6	20.0
Carbamazepine	QuaF	0.4118	0.3618		39200	50000	-21.6*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Lab Sample ID: CCVIS 460-142879/2 Calibration Date: 01/11/2013 09:49

Instrument ID: BNAMS4 Calib Start Date: 01/08/2013 14:06

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/08/2013 16:03

Lab File ID: u83316.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3409	0.3321		48700	50000	-2.6	20.0
Benzo[a]anthracene	Ave	1.067	1.027		48100	50000	-3.8	20.0
Chrysene	Ave	0.9712	0.9354		48200	50000	-3.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9076	0.8805		48500	50000	-3.0	20.0
Di-n-octyl phthalate	Ave	1.490	1.697		56900	50000	13.9	20.0
Benzo[b]fluoranthene	Ave	1.043	1.109		53200	50000	6.4	20.0
Benzo[k]fluoranthene	Ave	1.063	1.164		54800	50000	9.5	20.0
Benzo[a]pyrene	Ave	0.8649	0.8947		51700	50000	3.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.221	1.151		47100	50000	-5.7	20.0
Dibenz(a,h)anthracene	Ave	0.9745	0.9807		50300	50000	0.6	20.0
Benzo[g,h,i]perylene	Ave	1.062	0.9879		46500	50000	-7.0	20.0
2-Fluorophenol	Ave	1.391	1.262		45300	50000	-9.3	20.0
Phenol-d5	Ave	1.870	1.776		47500	50000	-5.0	20.0
Nitrobenzene-d5	Ave	0.4709	0.4929		52300	50000	4.7	20.0
2-Fluorobiphenyl	Ave	1.283	1.273		49600	50000	-0.8	20.0
2,4,6-Tribromophenol	Ave	0.2380	0.2876		60400	50000	20.8*	20.0
Terphenyl-d14	Ave	0.9907	0.9527		48100	50000	-3.8	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-142508/7	u83195.d
Level 2	IC 460-142508/6	u83194.d
Level 3	IC 460-142508/5	u83193.d
Level 4	ICIS 460-142508/2	u83190.d
Level 5	IC 460-142508/4	u83192.d
Level 6	IC 460-142508/3	u83191.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
1,4-Dioxane	0.4666 0.3958	0.4160	0.3948	0.3889	0.3986	Ave		0.4101				7.1		15.0			
N-Nitrosodimethylamine	0.7101 0.7712	0.7463	0.7973	0.6689	0.7119	Ave		0.7343				6.3		15.0			
Pyridine	0.9534 1.2031	0.9838	1.0000	1.0727	1.0928	Ave		1.0510				8.7		15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2456	+++++	Ave		0.2456						15.0			
Benzaldehyde	1.1365 +++++	0.9780	0.7188	0.4158	0.2222	Ave		0.6943				54.7	*	15.0			
Aniline	2.3921 1.5863	2.2610	2.1819	1.8487	1.9183	Ave		2.0314				14.8		15.0			
Phenol	2.2489 1.9438	2.1105	2.1736	1.8240	1.5299	Ave		1.9718				13.5		30.0			
Bis(2-chloroethyl)ether	1.7169 1.7512	1.4946	1.5145	1.3473	1.3794	Ave		1.5340				11.0		15.0			
2-Chlorophenol	1.4987 1.4194	1.4095	1.3775	1.3217	1.2729	Ave		1.3833				5.7		15.0			
Decane	1.9114 1.4611	1.8120	1.7479	1.6315	1.5511	Ave		1.6859				10.0		15.0			
1,3-Dichlorobenzene	1.6351 1.4429	1.5537	1.5197	1.4815	1.4307	Ave		1.5106				5.1		15.0			
1,4-Dichlorobenzene	1.7361 1.4667	1.6007	1.5384	1.4372	1.4381	Ave		1.5362				7.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzyl alcohol	1.0991 0.9151	1.0536	1.0829	0.8829	0.8856	Ave		0.9865				10.4		15.0			
1,2-Dichlorobenzene	1.6259 1.3788	1.4962	1.5756	1.3375	1.3509	Ave		1.4608				8.4		15.0			
2,2'-oxybis[1-chloropropane]	3.0330 2.2847	2.9239	2.7216	2.2441	2.3395	Ave		2.5911				13.4		15.0			
2-Methylphenol	1.6269 1.2790	1.4991	1.3907	1.2433	1.1715	Ave		1.3684				12.5		15.0			
Acetophenone	2.5227 1.9138	2.3562	2.1310	1.7431	1.7495	QuaF		0.5788	-0.009						0.9970		0.9900
N-Nitrosodi-n-propylamine	1.3888 0.9896	1.2910	1.2908	1.0338	1.0805	Ave		1.1791			0.0500	14.0		15.0			
3 & 4 Methylphenol	1.7042 1.2479	1.4822	1.5585	1.3350	1.1970	Ave		1.4208				13.7		15.0			
4-Methylphenol	1.7042 1.2479	1.4822	1.5313	1.3271	1.1970	Ave		1.4149				13.6		15.0			
Hexachloroethane	0.7634 0.6396	0.7375	0.7424	0.6831	0.6714	Ave		0.7062				6.9		15.0			
Nitrobenzene	0.7713 0.5327	0.6018	0.5803	0.5759	0.5621	Ave		0.6040				14.1		15.0			
n,n'-Dimethylaniline	1.9909 1.7210	2.0615	1.9870	1.6473	1.7828	Ave		1.8651				9.1		15.0			
Isophorone	0.9061 0.7259	0.8641	0.7861	0.7585	0.6086	Ave		0.7749				13.6		15.0			
2-Nitrophenol	0.2273 0.2191	0.2199	0.2177	0.2149	0.2096	Ave		0.2181				2.7		30.0			
2,4-Dimethylphenol	0.3771 0.3171	0.3532	0.3180	0.3168	0.3015	Ave		0.3306				8.6		15.0			
Bis(2-chloroethoxy)methane	0.5202 0.4257	0.5131	0.4721	0.4369	0.4515	Ave		0.4699				8.4		15.0			
2,4-Dichlorophenol	0.3626 0.3149	0.3375	0.3392	0.3294	0.3126	Ave		0.3327				5.5		30.0			
Benzoic acid	0.0410 0.1640	0.0658	0.1265	0.1424	0.1582	QuaF		7.3856	-2.717						0.9983		0.9900
1,2,4-Trichlorobenzene	0.3708 0.3448	0.3611	0.3556	0.3616	0.3730	Ave		0.3611				2.9		15.0			
Naphthalene	1.0902 0.9386	1.0473	1.0044	0.9818	0.9820	Ave		1.0074				5.3		15.0			
4-Chloroaniline	0.4495 0.3555	0.4396	0.3865	0.3528	0.3766	Ave		0.3934				10.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2182 0.2064	0.2098	0.2017	0.2071	0.2163	Ave		0.2099				3.0		30.0			
Caprolactam	0.0964 0.0775	0.1022	0.0959	0.0744	0.0834	Ave		0.0883				12.9		15.0			
4-Chloro-3-methylphenol	0.3815 0.3035	0.3736	0.3413	0.3279	0.2997	Ave		0.3379				10.2		30.0			
2-Methylnaphthalene	0.6786 0.5533	0.6763	0.6250	0.6151	0.5681	Ave		0.6194				8.5		15.0			
1-Methylnaphthalene	0.7611 0.6141	0.6828	0.6775	0.6353	0.5891	Ave		0.6600				9.3		15.0			
Hexachlorocyclopentadiene	0.1651 0.3300	0.1598	0.2109	0.2837	0.3160	QuaF		3.7799	-0.786		0.0500				0.9979		0.9900
1,2,4,5-Tetrachlorobenzene	0.5517 0.6165	0.5123	0.5722	0.6187	0.6043	Ave		0.5793				7.3		30.0			
2-tertbutyl-4-methylphenol	0.5241 0.4489	0.4978	0.4806	0.4587	0.4217	Ave		0.4720				7.7		15.0			
2,4,6-Trichlorophenol	0.3788 0.3733	0.3403	0.3554	0.3857	0.3765	Ave		0.3684				4.6		30.0			
2,4,5-Trichlorophenol	0.3960 0.3668	0.3451	0.3764	0.3544	0.3625	Ave		0.3669				4.9		15.0			
Diphenyl	1.5133 1.3150	1.4499	1.3183	1.3465	1.3773	Ave		1.3867				5.7		15.0			
2-Chloronaphthalene	1.2501 1.0498	1.0823	1.0406	1.1155	1.0942	Ave		1.1054				6.9		15.0			
Diphenyl ether	0.8451 0.7487	0.7753	0.7115	0.7495	0.7728	Ave		0.7672				5.8		15.0			
2-Nitroaniline	0.4555 0.3582	0.4126	0.3870	0.3769	0.3792	Ave		0.3949				8.7		15.0			
Dimethylnaphthalene, total	0.9753 0.8820	0.8453	0.8860	0.8764	0.8617	Ave		0.8878				5.1		15.0			
Dimethyl phthalate	1.3543 1.0378	1.2571	1.1389	1.1223	1.0959	Ave		1.1677				10.0		15.0			
Coumarin	0.2501 0.1905	0.2546	0.2367	0.2043	0.1823	Ave		0.2198				14.3		15.0			
2,6-Dinitrotoluene	0.2652 0.2601	0.3101	0.2850	0.2960	0.2765	Ave		0.2821				6.7		15.0			
Acenaphthylene	1.9672 1.4634	1.6781	1.5817	1.5532	1.5876	Ave		1.6385				10.7		15.0			
3-Nitroaniline	0.2956 0.2466	0.2641	0.2651	0.2615	0.2469	Ave		0.2633				6.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acenaphthene	1.1055 0.8030	0.9945	0.9058	0.8842	0.8885	Ave		0.9303				11.3		30.0			
3,5-di-tert-butyl-4-hydroxytol	0.8217 0.7507	0.7415	0.8302	0.8115	0.7798	Ave		0.7892				4.8		15.0			
2,4-Dinitrophenol	0.0555 0.1323	0.0746	0.0950	0.1099	0.1322	QuaF		9.8041	-6.083		0.0500				0.9911		0.9900
4-Nitrophenol	0.2182 0.2254	0.2354	0.2526	0.2515	0.2292	Ave		0.2354			0.0500	6.0		15.0			
Dibenzofuran	1.5909 1.3500	1.5429	1.5482	1.3995	1.3723	Ave		1.4673				7.1		15.0			
2,4-Dinitrotoluene	0.3640 0.3301	0.3692	0.3512	0.3478	0.3340	Ave		0.3494				4.5		15.0			
2,3,4,6-Tetrachlorophenol	0.2845 0.2669	0.2498	0.2490	0.2605	0.2684	Ave		0.2632				5.0		30.0			
Diethyl phthalate	1.3535 0.9450	1.1918	1.0822	1.1276	1.0318	Ave		1.1220				12.6		15.0			
Fluorene	1.3220 0.9617	1.2060	1.1071	1.0504	0.9923	Ave		1.1066				12.4		15.0			
4-Chlorophenyl phenyl ether	0.5473 0.4585	0.5052	0.4731	0.4573	0.4646	Ave		0.4844				7.3		15.0			
4-Nitroaniline	0.2737 0.2080	0.2450	0.2367	0.2102	0.2230	Ave		0.2328				10.6		15.0			
4,6-Dinitro-2-methylphenol	0.1000 0.1468	0.1147	0.1173	0.1477	0.1489	QuaF		7.4658	-1.689						0.9953		0.9900
N-Nitrosodiphenylamine	0.6890 0.5727	0.6596	0.5615	0.6080	0.5966	Ave		0.6146				8.1		30.0			
1,2-Diphenylhydrazine	1.1373 1.2489	1.3217	1.1627	1.2234	1.2300	Ave		1.2207				5.4		15.0			
4-Bromophenyl phenyl ether	0.2480 0.2637	0.2445	0.2166	0.2774	0.2656	Ave		0.2526				8.5		15.0			
Hexachlorobenzene	0.3239 0.3345	0.3413	0.3272	0.3576	0.3411	Ave		0.3376				3.6		15.0			
Atrazine	0.1915 0.1966	0.1951	0.1862	0.1998	0.1930	Ave		0.1937				2.4		15.0			
Pentachlorophenol	0.1218 0.1802	0.1446	0.1573	0.1934	0.1959	QuaF		5.4437	-0.046						0.9920		0.9900
Pentachloronitrobenzene	0.0995 0.1080	0.1069	0.1047	0.1170	0.1155	Ave		0.1086				6.1					
n-Octadecane	0.7315 0.6437	0.7048	0.6666	0.6963	0.6351	Ave		0.6797				5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Phenanthrene	1.1534 1.0730	1.1270	1.0784	1.2674	1.1398	Ave		1.1398				6.2		15.0			
Anthracene	1.1398 1.0890	1.1867	1.1086	1.1999	1.1269	Ave		1.1418				3.8		15.0			
Carbazole	1.0542 0.9225	1.0145	0.9784	0.9754	0.9403	Ave		0.9809				4.9		15.0			
Di-n-butyl phthalate	1.3988 1.2560	1.3627	1.3160	1.3959	1.3235	Ave		1.3422				4.1		15.0			
Fluoranthene	0.9463 0.9279	0.8962	0.8696	0.9477	0.9304	Ave		0.9197				3.3		30.0			
Benzidine	0.2457 +++++	0.2953	0.2232	0.1037	0.0886	Ave		0.1913				47.5	*	15.0			
Pyrene	1.3487 1.1756	1.3935	1.3619	1.4356	1.3058	Ave		1.3369				6.7		15.0			
Butyl benzyl phthalate	0.7713 0.6604	0.7789	0.7427	0.7525	0.7433	Ave		0.7415				5.7		15.0			
Carbamazepine	0.2903 0.5054	0.3187	0.3942	0.4551	0.5072	QuaF		2.2552	-0.196						0.9982		0.9900
3,3'-Dichlorobenzidine	0.3640 0.3004	0.3828	0.3464	0.3255	0.3264	Ave		0.3409				8.7		15.0			
Benzo[a]anthracene	1.2228 1.0248	1.0607	1.0236	1.0066	1.0652	Ave		1.0673				7.5		15.0			
Chrysene	0.9808 0.8994	1.0116	0.9615	0.9738	1.0000	Ave		0.9712				4.1		15.0			
Bis(2-ethylhexyl) phthalate	0.9595 0.8186	0.8900	0.9536	0.8868	0.9374	Ave		0.9076				5.9		15.0			
Di-n-octyl phthalate	1.6452 1.3056	1.4815	1.6191	1.5018	1.3856	Ave		1.4898				8.8		30.0			
Benzo[b]fluoranthene	0.9831 1.1328	1.0219	1.0418	1.0231	1.0531	Ave		1.0426				4.8		15.0			
Benzo[k]fluoranthene	1.0719 0.9989	1.0832	1.1522	1.0906	0.9785	Ave		1.0626				6.0		15.0			
Benzo[a]pyrene	0.8033 0.8865	0.8443	0.9079	0.8604	0.8872	Ave		0.8649				4.3		30.0			
Indeno[1,2,3-cd]pyrene	1.1176 1.2360	1.1862	1.2449	1.2265	1.3128	Ave		1.2207				5.3		15.0			
Dibenz(a,h)anthracene	0.7858 1.0361	0.9549	1.0205	0.9877	1.0618	Ave		0.9745				10.2		15.0			
Benzo[g,h,i]perylene	1.0396 1.0108	1.0412	1.0812	1.0434	1.1587	Ave		1.0625				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49238-1 Analy Batch No.: 142508

SDG No.:

Instrument ID: BNAMS4 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2013 14:06 Calibration End Date: 01/08/2013 16:03 Calibration ID: 19727

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Fluorophenol	1.3807 1.5077	1.3945	1.3618	1.3608	1.3411	Ave		1.3911				4.3		15.0			
Phenol-d5	2.0654 1.7700	2.0354	1.9680	1.6904	1.6912	Ave		1.8701				9.2		15.0			
Nitrobenzene-d5	0.5148 0.4714	0.4595	0.4803	0.4552	0.4441	Ave		0.4709				5.3		15.0			
2-Fluorobiphenyl	1.4568 1.2639	1.1548	1.3155	1.1997	1.3089	Ave		1.2833				8.2		15.0			
2,4,6-Tribromophenol	0.2533 0.2421	0.2237	0.2233	0.2463	0.2396	Ave		0.2380				5.1		15.0			
Terphenyl-d14	0.9294 0.9665	0.9831	1.0404	1.0748	0.9499	Ave		0.9907				5.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: z15997.d

Lab ID: LCS 460-142602/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Phenol	6670	5090	76	54-115	
2-Chlorophenol	6670	4870	73	56-110	
2-Methylphenol	6670	5860	88	54-117	
4-Methylphenol	6670	6960	104	47-103	*
Benzaldehyde	3330	631	19	10-160	
Acetophenone	3330	2680	80	40-95	
Bis(2-chloroethyl)ether	3330	2360	71	44-101	
2,2'-oxybis[1-chloropropane]	3330	2010	60	45-102	
N-Nitrosodi-n-propylamine	3330	3150	95	42-107	
Nitrobenzene	3330	2510	75	42-106	
Hexachloroethane	3330	2460	74	45-90	
Isophorone	3330	2520	76	48-97	
2-Nitrophenol	6670	5470	82	55-101	
2,4-Dimethylphenol	6670	5020	75	56-112	
2,4-Dichlorophenol	6670	5400	81	58-115	
Bis(2-chloroethoxy)methane	3330	2510	75	51-100	
Naphthalene	3330	2600	78	53-94	
4-Chloroaniline	3330	995	30	10-96	
Hexachlorobutadiene	3330	2640	79	45-98	
Caprolactam	3330	2310	69	10-127	
4-Chloro-3-methylphenol	6670	5800	87	55-117	
2-Methylnaphthalene	3330	2790	84	51-98	
Hexachlorobenzene	3330	2990	90	43-104	
Hexachlorocyclopentadiene	3330	2780	83	24-98	
2,4,6-Trichlorophenol	6670	5440	82	53-118	
2,4,5-Trichlorophenol	6670	5400	81	50-115	
Diphenyl	3330	2460	74	50-105	
2-Chloronaphthalene	3330	2470	74	51-102	
2-Nitroaniline	3330	2590	78	51-109	
2,6-Dinitrotoluene	3330	3070	92	51-115	
Dimethyl phthalate	3330	2870	86	52-112	
Acenaphthylene	3330	2680	80	51-103	
3-Nitroaniline	3330	1730	52	32-104	
Acenaphthene	3330	2700	81	46-100	
4-Nitrophenol	6670	6380	96	45-114	
2,4-Dinitrophenol	6670	4530	68	10-129	
Dibenzofuran	3330	2680	81	52-106	
Diethyl phthalate	3330	2930	88	52-114	
Fluorene	3330	2780	83	51-108	
Fluoranthene	3330	3010	90	49-108	
Di-n-butyl phthalate	3330	2930	88	50-108	
2,4-Dinitrotoluene	3330	3220	97	53-110	

nb

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49238-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: z15997.d

Lab ID: LCS 460-142602/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	3330	2870	86	50-106	
4-Nitroaniline	3330	2490	75	45-106	
4,6-Dinitro-2-methylphenol	6670	5400	81	10-110	
4-Bromophenyl phenyl ether	3330	2790	84	44-102	
Atrazine	3330	1780	53	30-100	
Anthracene	3330	2800	84	50-107	
Carbazole	3330	2880	86	49-104	
Phenanthrene	3330	2770	83	48-108	
Pentachlorophenol	6670	6710	101	19-113	
Pyrene	3330	2700	81	49-116	
Chrysene	3330	2690	81	45-114	
Benzo[k]fluoranthene	3330	2740	82	35-115	
Benzo[g,h,i]perylene	3330	2750	82	43-106	
Benzo[b]fluoranthene	3330	2870	86	33-96	
Benzo[a]pyrene	3330	2710	81	36-89	
Benzo[a]anthracene	3330	2740	82	46-112	
N-Nitrosodiphenylamine	3330	3010	90	49-106	
Butyl benzyl phthalate	3330	2900	87	49-117	
Bis(2-ethylhexyl) phthalate	3330	2890	87	49-119	
Di-n-octyl phthalate	3330	2810	84	40-106	
Indeno[1,2,3-cd]pyrene	3330	2610	78	43-109	
Dibenz(a,h)anthracene	3330	2710	81	43-107	
3,3'-Dichlorobenzidine	3330	1920	58	24-105	
1,2,4,5-Tetrachlorobenzene	3330	2380	71	70-130	
2,3,4,6-Tetrachlorophenol	3330	2970	89	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-49593-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-49593-1	SB-33 (35-36)	Solid	01/15/2013 1400	01/17/2013 1455
460-49593-2	SB-33 (50-54)	Solid	01/15/2013 1430	01/17/2013 1455

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) TENNIFER PFEIFFER	Samplers Name (Printed) S. WRIGHT	Site/Project Identification NATIONAL GRID-EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☐	
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-510-2100 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 49593

Sample Identification	Date	Time	Matrix	No. of. Cont.	VOCs 8260	SVOCs 8270									Sample Numbers
SB-33 (35-36)	1-15-13	1400	SOIL	5	X	X									-1
SB-33 (50-54)	1-15-13	1430	SOIL	5	X	X									-2

Short Hold

NOTE: SAMPLE (35-36) IS SATURATED W/TAR

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other METH/DI H2O Other _____

Soil:	1/6	1												
Water:														

Special Instructions EDD FORMAT TO COLLEEN.SCOTT@AECOM.COM

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
[signature]	AECOM	1-17-13 17:00	1) RADZY MAJTOW	T.A. N.Y.C.
2) RADZY MAJTOW	T.A. N.Y.C.	1/17/13 14:55	2) [signature]	TAED
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578) 3.0/74 TR #4 NOP.5

TAL - 0016 (0408)

01/28/2013
Page 523 of 525

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 49593

Number of Coolers: 1

IR Gun #: 2

Temp. Cooler #1 (Deg C) (Raw/Corrected): 2.0/1.4

Temp. Cooler #2 (Deg C) (Raw/Corrected): _____

Temp. Cooler #3 (Deg C) (Raw/Corrected): _____

Temp. Cooler #4 (Deg C) (Raw/Corrected): _____

Temp. Cooler #5 (Deg C) (Raw/Corrected): _____

Temp. Cooler #6 (Deg C) (Raw/Corrected): _____

Temp. Cooler #7 (Deg C) (Raw/Corrected): _____

Temp. Cooler #8 (Deg C) (Raw/Corrected): _____

Temp. Cooler #9 (Deg C) (Raw/Corrected): _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____

Volume of Preservative used (ml): _____

Lot # of Preservative: _____

Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 3, 10/8/12

Initials: _____

Date: _____

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-49593-1

Login Number: 49593
List Number: 1
Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4°C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	See NCM
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	See NCM
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	See NCM
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143844/5

Matrix: Solid | Lab File ID: k08758.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/18/2013 21:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143844 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.409	J	1.0	0.15
67-64-1	Acetone	2.42	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
179601-23-1	m&p-Xylene	0.59	U	2.0	0.59
95-47-6	o-Xylene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49593-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143844/5

Matrix: Solid | Lab File ID: k08758.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/18/2013 21:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143844 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		70-130
2037-26-5	Toluene-d8 (Surr)	86		70-130
460-00-4	Bromofluorobenzene	114		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-143844/5

Matrix: Solid Lab File ID: k08758.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 01/18/2013 21:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 143844 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Matrix: Solid Level: Medium

GC Column (1): Rtx-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA	#	TOL	#	BFB	#
SB-33 (35-36)	460-49593-1	0	X	0	X	0	X
	MB 460-144287/4	101		102		102	
	LCS 460-144287/3	102		100		100	
	460-49764-A-58-A MS	118		111		110	
	460-49764-A-58-A MSD	128		121		120	

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	75-135
TOL = Toluene-d8 (Surr)	59-150
BFB = Bromofluorobenzene	72-133

Column to be used to flag recovery values

FORM II 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-144287/2 Calibration Date: 01/23/2013 09:22

Instrument ID: VOAMS4 Calib Start Date: 01/22/2013 21:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/23/2013 03:52

Lab File ID: d28421.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2857	0.2649		18.5	20.0	-7.3	50.0
Chloromethane	Ave	0.4009	0.3558	0.1000	17.8	20.0	-11.2	50.0
Vinyl chloride	Ave	0.3857	0.3561		18.5	20.0	-7.7	20.0
Bromomethane	Ave	0.2433	0.2377		19.5	20.0	-2.3	50.0
Chloroethane	Ave	0.1985	0.1879		18.9	20.0	-5.3	50.0
n-Pentane	LinF	0.0437	0.0426		39.1	40.0	-2.2	50.0
Trichlorofluoromethane	Ave	0.4581	0.4169		18.2	20.0	-9.0	50.0
Dichlorofluoromethane	Ave	0.5959	0.5770		19.4	20.0	-3.2	50.0
Isopropene	Ave	0.4091	0.4353		21.3	20.0	6.4	50.0
Ethyl ether	Ave	0.2737	0.2628		19.2	20.0	-4.0	50.0
1,1-Dichloroethene	Ave	0.2450	0.2606		21.3	20.0	6.3	20.0
Carbon disulfide	Ave	0.9296	0.8955		19.3	20.0	-3.7	50.0
Ethanol	Ave	0.0022	0.0017		2310	3000	-23.0	50.0
Freon TF	LinF	0.2692	0.2691		20.1	20.0	0.3	50.0
Iodomethane	Ave	0.5537	0.5200		18.8	20.0	-6.1	50.0
Cyclopentene	Ave	0.8894	0.8366		18.8	20.0	-5.9	50.0
Acrolein	Ave	0.0553	0.0586		42.3	40.0	5.8	99.0
Methylene Chloride	Ave	0.3478	0.3402		19.6	20.0	-2.2	50.0
Acetone	Ave	0.0486	0.0393		16.2	20.0	-19.2	50.0
trans-1,2-Dichloroethene	Ave	0.3250	0.3110		19.1	20.0	-4.3	50.0
Methyl acetate	Ave	0.7826	0.7059		18.0	20.0	-9.8	50.0
Hexane	LinF	0.1995	0.2078		22.9	20.0	14.3	50.0
MTBE	Ave	1.039	0.9284		17.9	20.0	-10.6	50.0
TBA	Ave	0.0437	0.0342		313	400	-21.8	50.0
Acetonitrile	LinF	0.0060	0.0058		444	400	10.9	50.0
DIPE	Ave	1.141	1.060		18.6	20.0	-7.1	50.0
1,1-Dichloroethane	Ave	0.6008	0.5715	0.1000	19.0	20.0	-4.9	50.0
Acrylonitrile	Ave	0.1540	0.1681		21.8	20.0	9.1	50.0
Tert-butyl ethyl ether	Ave	0.4277	0.3908	0.0100	18.3	20.0	-8.6	50.0
Vinyl acetate	Ave	0.7322	0.6806		37.2	40.0	-7.0	50.0
cis-1,2-Dichloroethene	Ave	0.3623	0.3530		19.5	20.0	-2.6	50.0
2,2-Dichloropropane	Ave	0.4628	0.4449		19.2	20.0	-3.9	50.0
Cyclohexane	LinF	0.5079	0.5046		20.7	20.0	3.6	50.0
Bromochloromethane	Ave	0.1850	0.1816		19.6	20.0	-1.9	50.0
Chloroform	Ave	0.5860	0.5692		19.4	20.0	-2.9	20.0
Carbon tetrachloride	Ave	0.4606	0.4548		19.8	20.0	-1.2	50.0
Ethyl acetate	Ave	0.0426	0.0356		33.4	40.0	-16.5	50.0
Tetrahydrofuran	Ave	0.2072	0.1637		15.8	20.0	-21.0	50.0
1,1,1-Trichloroethane	Ave	0.4801	0.4706		19.6	20.0	-2.0	50.0
1,1-Dichloropropene	Ave	0.4004	0.4326		21.6	20.0	8.0	50.0
2-Butanone	Ave	0.0594	0.0538		18.1	20.0	-9.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-144287/2 Calibration Date: 01/23/2013 09:22

Instrument ID: VOAMS4 Calib Start Date: 01/22/2013 21:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/23/2013 03:52

Lab File ID: d28421.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	1.864	1.839		19.7	20.0	-1.4	50.0
Propionitrile	Ave	0.0612	0.0548		35.8	40.0	-10.4	50.0
Tert-amyl methyl ether	Ave	0.9625	0.9230		19.2	20.0	-4.1	50.0
1,2-Dichloroethane	Ave	0.4397	0.4227		19.2	20.0	-3.9	50.0
Isobutyl alcohol	Ave	0.0190	0.0156		2470	3000	-17.8	50.0
Isopropyl acetate	Ave	0.7934	0.6769		34.1	40.0	-14.7	50.0
Methylcyclohexane	LinF	0.3813	0.3930		20.8	20.0	3.9	50.0
Trichloroethene	Ave	0.3376	0.3185		18.9	20.0	-5.7	50.0
Dibromomethane	Ave	0.2149	0.2001		18.6	20.0	-6.9	50.0
n-Butanol	Ave	0.0061	0.0048		1190	1500	-20.8	50.0
1,2-Dichloropropane	Ave	0.3425	0.3291		19.2	20.0	-3.9	20.0
Ethyl acrylate	Ave	0.4536	0.3860		17.0	20.0	-14.9	50.0
Bromodichloromethane	Ave	0.3980	0.3825		19.2	20.0	-3.9	50.0
Methyl methacrylate	Ave	0.0966	0.0833		17.2	20.0	-13.8	50.0
1,4-Dioxane	Ave	0.0037	0.0038		155	150	3.5	50.0
Propyl acetate	Ave	0.5088	0.4214		16.6	20.0	-17.2	50.0
2-Chloroethyl vinyl ether	Ave	0.2275	0.1458		12.8	20.0	-35.9	50.0
cis-1,3-Dichloropropene	Ave	0.6896	0.6713		19.5	20.0	-2.7	50.0
Toluene	Ave	1.892	1.830		19.4	20.0	-3.2	20.0
Epichlorohydrin	Ave	0.0546	0.0459		336	400	-16.0	50.0
Tetrachloroethene	Ave	0.4766	0.4585		19.2	20.0	-3.8	50.0
4-Methyl-2-pentanone	Ave	0.5609	0.4703		16.8	20.0	-16.2	50.0
trans-1,3-Dichloropropene	LinF	0.5927	0.5809		16.9	20.0	-15.4	50.0
1,1,2-Trichloroethane	Ave	0.3550	0.3292		18.5	20.0	-7.3	50.0
Ethyl methacrylate	Ave	0.4453	0.3827		17.2	20.0	-14.1	50.0
Dibromochloromethane	LinF	0.4236	0.4037		16.3	20.0	-18.5	50.0
1,3-Dichloropropane	Ave	0.6956	0.6775		19.5	20.0	-2.6	50.0
1,2-Dibromoethane	Ave	0.4081	0.4031		19.8	20.0	-1.2	50.0
Butyl acetate	Ave	0.1326	0.1168		35.2	40.0	-11.9	50.0
2-Hexanone	Ave	0.3997	0.3477		17.4	20.0	-13.0	50.0
Chlorobenzene	Ave	1.221	1.186	0.3000	19.4	20.0	-2.9	50.0
Ethylbenzene	Ave	0.6294	0.6246		19.8	20.0	-0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4296	0.4254		19.8	20.0	-1.0	50.0
m&p-Xylene	Ave	0.7771	0.7691		39.6	40.0	-1.0	50.0
o-Xylene	Ave	0.7675	0.7700		20.1	20.0	0.3	50.0
Bromoform	LinF	0.2997	0.2802	0.1000	15.7	20.0	-21.7	50.0
Styrene	Ave	1.226	1.232		20.1	20.0	0.5	50.0
Butyl acrylate	Ave	0.3484	0.3194		18.3	20.0	-8.3	50.0
Isopropylbenzene	Ave	1.906	1.919		20.1	20.0	0.7	50.0
Camphene, Total	LinF	0.1119	0.1173		22.7	20.0	13.4	50.0
Amly acetate	Ave	1.605	1.441		17.9	20.0	-10.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-144287/2 Calibration Date: 01/23/2013 09:22

Instrument ID: VOAMS4 Calib Start Date: 01/22/2013 21:04

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/23/2013 03:52

Lab File ID: d28421.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monobromobenzene	Ave	0.9455	0.9485		20.1	20.0	0.3	50.0
N-Propylbenzene	Ave	3.960	3.877		19.6	20.0	-2.1	50.0
1,1,2,2-Tetrachloroethane	Ave	1.041	0.9833	0.3000	18.9	20.0	-5.5	50.0
p-Ethyltoluene	Ave	1.306	1.270		19.4	20.0	-2.8	50.0
2-Chlorotoluene	Ave	2.905	2.868		19.7	20.0	-1.3	50.0
1,2,3-Trichloropropane	Ave	0.3059	0.2935		19.2	20.0	-4.1	50.0
1,3,5-Trimethylbenzene	Ave	2.804	2.767		19.7	20.0	-1.3	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2432	0.2341		19.3	20.0	-3.7	50.0
4-Chlorotoluene	Ave	2.516	2.520		20.0	20.0	0.2	50.0
tert-Butylbenzene	Ave	2.177	2.146		19.7	20.0	-1.4	50.0
Butyl Methacrylate	LinF	1.073	1.006		16.6	20.0	-17.1	50.0
1,2,4-Trimethylbenzene	Ave	2.898	2.913		20.1	20.0	0.5	50.0
sec-Butylbenzene	Ave	3.042	3.107		20.4	20.0	2.1	50.0
p-Isopropyltoluene	Ave	2.601	2.675		20.6	20.0	2.8	50.0
1,3-Dichlorobenzene	Ave	1.721	1.681		19.5	20.0	-2.3	50.0
1,4-Dichlorobenzene	Ave	1.778	1.750		19.7	20.0	-1.6	50.0
2-Octanone	LinF	1.455	1.598		19.6	20.0	-2.0	50.0
Indan	Ave	1.215	1.102		18.1	20.0	-9.3	50.0
1,4-Diethylbenzene	Ave	0.6163	0.5796		18.8	20.0	-6.0	50.0
Benzyl chloride	LinF	0.3525	0.3081		14.4	20.0	-27.9	50.0
n-Butylbenzene	Ave	2.594	2.931		22.6	20.0	13.0	50.0
1,2-Dichlorobenzene	Ave	1.718	1.683		19.6	20.0	-2.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.9662	0.9007		18.6	20.0	-6.8	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.1688	0.1600		16.0	20.0	-19.9	50.0
Hexachlorobutadiene	Ave	0.3684	0.3869		21.0	20.0	5.0	50.0
1,2,4-Trichlorobenzene	Ave	1.003	1.026		20.5	20.0	2.3	50.0
Camphor	LinF	0.1250	0.1013		66.2	100	-33.8	50.0
Naphthalene	Ave	2.660	2.735		20.6	20.0	2.8	50.0
1,2,3-Trichlorobenzene	Ave	0.8875	0.9223		20.8	20.0	3.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2591	0.2583		49.8	50.0	-0.3	50.0
Toluene-d8 (Surr)	Ave	1.070	1.069		50.0	50.0	-0.0	50.0
Bromofluorobenzene	Ave	0.8116	0.8153		50.2	50.0	0.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-143844/2 Calibration Date: 01/18/2013 19:53

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08754.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3617	0.3781		20.9	20.0	4.5	50.0
Chloromethane	QuaF	0.8134	0.7177	0.1000	17.8	20.0	-11.2	50.0
Vinyl chloride	Ave	0.6475	0.5914		18.3	20.0	-8.7	20.0
Bromomethane	Ave	0.4932	0.5082		20.6	20.0	3.1	50.0
Chloroethane	Ave	0.5452	0.4799		17.6	20.0	-12.0	50.0
Dichlorofluoromethane	QuaF	1.830	1.593		19.1	20.0	-4.5	50.0
n-Pentane	QuaF	0.1309	0.0982		31.9	40.0	-20.1	50.0
Trichlorofluoromethane	Ave	1.184	1.094		18.5	20.0	-7.6	50.0
Ethanol	Ave	0.0045	0.0042		2800	3000	-6.8	50.0
Ethyl ether	QuaF	0.6286	0.5377		18.8	20.0	-6.2	50.0
Isopropene	Ave	0.9660	0.7490		15.5	20.0	-22.5	50.0
1,1-Dichloroethene	LinF	0.3591	0.3452		21.4	20.0	6.8	20.0
Freon TF	LinF	0.4702	0.3505		16.3	20.0	-18.6	50.0
Acetone	Ave	0.1507	0.1212		16.1	20.0	-19.6	50.0
Iodomethane	Ave	0.6057	0.5500		18.2	20.0	-9.2	50.0
Carbon disulfide	Ave	1.217	1.026		16.9	20.0	-15.7	50.0
Methyl acetate	LinF	0.0796	0.0766		21.2	20.0	6.0	50.0
Acetonitrile	Ave	0.0470	0.0580		494	400	23.5	50.0
Methylene Chloride	LinF	0.3906	0.3617		19.7	20.0	-1.3	50.0
TBA	LinF	0.0518	0.0393		302	400	-24.4	50.0
trans-1,2-Dichloroethene	Ave	0.3239	0.3086		19.1	20.0	-4.7	50.0
MTBE	Ave	1.107	0.999		18.0	20.0	-9.8	50.0
Acrylonitrile	Ave	0.1221	0.1326		163	150	8.6	50.0
Hexane	LinF	0.2851	0.2612		21.4	20.0	7.2	50.0
DIPE	Ave	1.299	1.187		18.3	20.0	-8.6	50.0
1,1-Dichloroethane	Ave	0.6638	0.6362	0.1000	19.2	20.0	-4.2	50.0
Vinyl acetate	Ave	1.010	0.9476		37.5	40.0	-6.2	50.0
Tert-butyl ethyl ether	Ave	1.182	1.069	0.0100	18.1	20.0	-9.5	50.0
2,2-Dichloropropane	Ave	0.5116	0.4000		15.6	20.0	-21.8	50.0
cis-1,2-Dichloroethene	Ave	0.3682	0.3625		19.7	20.0	-1.5	50.0
2-Butanone	Ave	0.0412	0.0487		23.7	20.0	18.3	50.0
Ethyl acetate	Ave	0.0354	0.0330		37.3	40.0	-6.8	50.0
Bromochloromethane	Ave	0.1669	0.1668		20.0	20.0	-0.1	50.0
Chloroform	Ave	0.6463	0.6123		18.9	20.0	-5.3	20.0
Cyclohexane	Ave	0.5702	0.4932		17.3	20.0	-13.5	50.0
1,1,1-Trichloroethane	Ave	0.5104	0.4462		17.5	20.0	-12.6	50.0
Carbon tetrachloride	Ave	0.4050	0.3141		15.5	20.0	-22.5	50.0
1,1-Dichloropropene	Ave	0.4066	0.4102		20.2	20.0	0.9	50.0
Benzene	Ave	1.316	1.338		20.3	20.0	1.7	50.0
Isopropyl acetate	Ave	1.018	0.8707		34.2	40.0	-14.5	50.0
Tert-amyl methyl ether	Ave	1.040	0.8264		15.9	20.0	-20.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-143844/2 Calibration Date: 01/18/2013 19:53

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08754.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.5179	0.4889		18.9	20.0	-5.6	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.0952	0.0815		34.2	40.0	-14.4	50.0
n-Butanol	Ave	0.0061	0.0064		1560	1500	4.0	50.0
Trichloroethene	Ave	0.3341	0.3265		19.5	20.0	-2.3	50.0
Ethyl acrylate	Ave	0.0179	0.0183		20.5	20.0	2.7	50.0
Methylcyclohexane	Ave	0.5900	0.5547		18.8	20.0	-6.0	50.0
1,2-Dichloropropane	Ave	0.3431	0.3406		19.9	20.0	-0.7	20.0
Methyl methacrylate	LinF	0.2240	0.2004		16.9	20.0	-15.4	50.0
1,4-Dioxane	Ave	0.0043	0.0048		170	150	13.0	50.0
Propyl acetate	LinF	0.5303	0.4629		16.3	20.0	-18.6	50.0
Dibromomethane	Ave	0.2304	0.2167		18.8	20.0	-5.9	50.0
Bromodichloromethane	Ave	0.4467	0.4008		17.9	20.0	-10.3	50.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.1879		19.3	20.0	-3.6	50.0
Epichlorohydrin	Ave	0.0347	0.0320		369	400	-7.8	50.0
cis-1,3-Dichloropropene	Ave	0.5129	0.4805		18.7	20.0	-6.3	50.0
4-Methyl-2-pentanone	Ave	0.3495	0.3460		19.8	20.0	-1.0	50.0
Toluene	Ave	1.982	1.766		17.8	20.0	-10.9	20.0
trans-1,3-Dichloropropene	Ave	0.6766	0.5320		15.7	20.0	-21.4	50.0
1,1,2-Trichloroethane	Ave	0.3571	0.3220		18.0	20.0	-9.8	50.0
Tetrachloroethene	Ave	0.4257	0.4017		18.9	20.0	-5.6	50.0
1,3-Dichloropropane	Ave	0.6490	0.6159		19.0	20.0	-5.1	50.0
2-Hexanone	Ave	0.3561	0.3143		17.7	20.0	-11.7	50.0
Butyl acetate	Ave	0.8321	0.6814		32.8	40.0	-18.1	50.0
Dibromochloromethane	Ave	0.3798	0.3232		17.0	20.0	-14.9	50.0
1,2-Dibromoethane	Ave	0.3995	0.3673		18.4	20.0	-8.1	50.0
Chlorobenzene	Ave	1.181	1.108	0.3000	18.8	20.0	-6.2	50.0
Ethylbenzene	Ave	0.6604	0.5760		17.4	20.0	-12.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4541	0.3414		15.0	20.0	-24.8	50.0
m&p-Xylene	Ave	0.8519	0.7257		34.1	40.0	-14.8	50.0
Butyl acrylate	Ave	1.724	1.444		16.8	20.0	-16.2	50.0
o-Xylene	Ave	0.8512	0.7491		17.6	20.0	-12.0	50.0
Styrene	Ave	1.418	1.216		17.2	20.0	-14.2	50.0
Amly acetate	Ave	0.8965	0.7107		15.9	20.0	-20.7	50.0
Bromoform	LinF	0.2634	0.1873	0.1000	13.7	20.0	-31.3	50.0
Isopropylbenzene	Ave	2.267	1.946		17.2	20.0	-14.1	50.0
Camphene, Total	Ave	0.5395	0.4305		16.0	20.0	-20.2	50.0
Monobromobenzene	Ave	0.9411	0.9084		19.3	20.0	-3.5	50.0
1,1,2,2-Tetrachloroethane	Ave	1.060	1.051	0.3000	19.8	20.0	-0.9	50.0
N-Propylbenzene	Ave	5.041	4.769		18.9	20.0	-5.4	50.0
1,2,3-Trichloropropane	Ave	0.2802	0.2687		19.2	20.0	-4.1	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1118	0.0889		15.9	20.0	-20.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Lab Sample ID: CCVIS 460-143844/2 Calibration Date: 01/18/2013 19:53

Instrument ID: VOAMS9 Calib Start Date: 01/12/2013 22:19

GC Column: DB-624 ID: 0.53(mm) Calib End Date: 01/13/2013 02:05

Lab File ID: k08754.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	3.530	3.134		17.8	20.0	-11.2	50.0
p-Ethyltoluene	Ave	1.533	1.392		18.2	20.0	-9.2	50.0
1,3,5-Trimethylbenzene	Ave	3.524	3.182		18.1	20.0	-9.7	50.0
4-Chlorotoluene	Ave	2.992	2.707		18.1	20.0	-9.5	50.0
Butyl Methacrylate	Ave	1.405	1.197		17.0	20.0	-14.8	50.0
tert-Butylbenzene	Ave	2.785	2.543		18.3	20.0	-8.7	50.0
1,2,4-Trimethylbenzene	Ave	3.535	3.222		18.2	20.0	-8.9	50.0
sec-Butylbenzene	Ave	4.601	4.285		18.6	20.0	-6.9	50.0
p-Isopropyltoluene	Ave	3.792	3.465		18.3	20.0	-8.6	50.0
1,3-Dichlorobenzene	Ave	2.002	1.790		17.9	20.0	-10.6	50.0
1,4-Dichlorobenzene	Ave	1.968	1.802		18.3	20.0	-8.5	50.0
Benzyl chloride	Ave	1.883	1.185		12.6	20.0	-37.1	50.0
1,4-Diethylbenzene	Ave	0.8776	0.7933		18.1	20.0	-9.6	50.0
n-Butylbenzene	Ave	4.845	4.493		18.5	20.0	-7.3	50.0
1,2-Dichlorobenzene	Ave	1.898	1.825		19.2	20.0	-3.8	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.312	1.202		18.3	20.0	-8.4	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.2219	0.1797		17.2	20.0	-13.8	50.0
Camphor	LinF	0.1299	0.1113		85.4	100	-14.6	50.0
1,2,4-Trichlorobenzene	Ave	1.355	1.339		19.8	20.0	-1.2	50.0
Hexachlorobutadiene	Ave	0.6349	0.6092		19.2	20.0	-4.0	50.0
Naphthalene	Ave	3.451	3.437		19.9	20.0	-0.4	50.0
1,2,3-Trichlorobenzene	Ave	1.339	1.315		19.6	20.0	-1.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3203	0.2650		41.4	50.0	-17.3	50.0
Toluene-d8 (Surr)	Ave	1.190	1.032		43.4	50.0	-13.3	50.0
Bromofluorobenzene	Ave	0.7736	0.8541		55.2	50.0	10.4	50.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49593-1 Analy Batch No.: 143598

SDG No.:

Instrument ID: BNAMS10 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2013 12:37 Calibration End Date: 01/16/2013 14:56 Calibration ID: 19807

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-143598/7	p33795.d
Level 2	IC 460-143598/6	p33794.d
Level 3	IC 460-143598/5	p33793.d
Level 4	ICIS 460-143598/2	p33790.d
Level 5	IC 460-143598/4	p33792.d
Level 6	IC 460-143598/3	p33791.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2126	+++++	Ave		0.2126						15.0			
1,4-Dioxane	0.8519 0.7609	0.8534	0.7832	0.8085	0.7943	Ave		0.8087				4.6		15.0			
N-Nitrosodimethylamine	1.1861 1.0268	1.1606	1.0661	1.0636	0.9972	Ave		1.0834				6.9		15.0			
Pyridine	2.1293 1.7843	2.1115	1.9455	1.8672	1.7655	Ave		1.9339				8.2		15.0			
Benzaldehyde	1.2128 0.1595	1.1321	0.8554	0.4796	0.2706	Ave		0.6850				65.2	*	15.0			
Phenol	2.1685 1.6042	2.1008	1.8669	1.5864	1.4812	QuaF		0.6393	-0.002						0.9962		0.9900
Aniline	2.5131 2.0164	2.4190	2.0891	1.8421	1.6877	QuaF		0.6001	-0.016						0.9940		0.9900
Bis(2-chloroethyl)ether	1.7844 1.2066	1.6636	1.4971	1.3637	1.5829	Ave		1.5164				13.8		15.0			
2-Chlorophenol	1.6579 1.2310	1.6134	1.5231	1.3032	1.2204	Ave		1.4248				13.8		15.0			
Decane	1.6498 1.2955	1.5705	1.6065	1.4698	1.3834	Ave		1.4959				9.2		15.0			
1,3-Dichlorobenzene	1.8808 1.3910	1.8178	1.6576	1.5298	1.4950	Ave		1.6287				11.8		15.0			
1,4-Dichlorobenzene	1.8591 1.3435	1.8092	1.6680	1.5040	1.4098	Ave		1.5989				13.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33907.d

Lab ID: LCS 460-143723/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Phenol	6670	5190	78	54-115	
2-Chlorophenol	6670	4820	72	56-110	
2-Methylphenol	6670	6080	91	54-117	
4-Methylphenol	6670	6170	93	47-103	
Benzaldehyde	3330	796	24	10-160	
Acetophenone	3330	3000	90	40-95	
Bis(2-chloroethyl)ether	3330	2950	89	44-101	
2,2'-oxybis[1-chloropropane]	3330	2880	86	45-102	
N-Nitrosodi-n-propylamine	3330	2100	63	42-107	
Nitrobenzene	3330	2620	79	42-106	
Hexachloroethane	3330	2670	80	45-90	
Isophorone	3330	1840	55	48-97	
2-Nitrophenol	6670	5250	79	55-101	
2,4-Dimethylphenol	6670	5080	76	56-112	
2,4-Dichlorophenol	6670	5740	86	58-115	
Bis(2-chloroethoxy)methane	3330	2790	84	51-100	
Naphthalene	3330	2630	79	53-94	
4-Chloroaniline	3330	624	19	10-96	
Hexachlorobutadiene	3330	2420	72	45-98	
Caprolactam	3330	2810	84	10-127	
4-Chloro-3-methylphenol	6670	5360	80	55-117	
2-Methylnaphthalene	3330	2760	83	51-98	
Hexachlorobenzene	3330	2730	82	43-104	
Hexachlorocyclopentadiene	3330	2390	72	24-98	
2,4,6-Trichlorophenol	6670	5000	75	53-118	
2,4,5-Trichlorophenol	6670	4520	68	50-115	
Diphenyl	3330	2640	79	50-105	
2-Chloronaphthalene	3330	2540	76	51-102	
2-Nitroaniline	3330	2610	78	51-109	
2,6-Dinitrotoluene	3330	2690	81	51-115	
Dimethyl phthalate	3330	2870	86	52-112	
Acenaphthylene	3330	2670	80	51-103	
3-Nitroaniline	3330	1290	39	32-104	
Acenaphthene	3330	2980	89	46-100	
4-Nitrophenol	6670	6120	92	45-114	
2,4-Dinitrophenol	6670	3690	55	10-129	
Dibenzofuran	3330	2620	79	52-106	
Diethyl phthalate	3330	2780	83	52-114	
Fluorene	3330	2630	79	51-108	
Fluoranthene	3330	2580	78	49-108	
Di-n-butyl phthalate	3330	2630	79	50-108	
2,4-Dinitrotoluene	3330	2850	85	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33907.d

Lab ID: LCS 460-143723/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	3330	2720	81	50-106	
4-Nitroaniline	3330	2220	67	45-106	
4,6-Dinitro-2-methylphenol	6670	4720	71	10-110	
4-Bromophenyl phenyl ether	3330	2800	84	44-102	
Atrazine	3330	1510	45	30-100	
Anthracene	3330	2650	79	50-107	
Carbazole	3330	2630	79	49-104	
Phenanthrene	3330	2710	81	48-108	
Pentachlorophenol	6670	5600	84	19-113	
Pyrene	3330	2910	87	49-116	
Chrysene	3330	2610	78	45-114	
Benzo[k]fluoranthene	3330	2760	83	35-115	
Benzo[g,h,i]perylene	3330	2750	82	43-106	
Benzo[b]fluoranthene	3330	2750	82	33-96	
Benzo[a]pyrene	3330	2840	85	36-89	
Benzo[a]anthracene	3330	2760	83	46-112	
N-Nitrosodiphenylamine	3330	2930	88	49-106	
Butyl benzyl phthalate	3330	2780	84	49-117	
Bis(2-ethylhexyl) phthalate	3330	2790	84	49-119	
Di-n-octyl phthalate	3330	2950	89	40-106	
Indeno[1,2,3-cd]pyrene	3330	2610	78	43-109	
Dibenz(a,h)anthracene	3330	2680	80	43-107	
3,3'-Dichlorobenzidine	3330	993	30	24-105	
1,2,4,5-Tetrachlorobenzene	3330	2290	69	70-130	*
2,3,4,6-Tetrachlorophenol	3330	2660	80	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49593-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
SB-33 (35-36) DL	460-49593-1 DL	0	D	0	D	0	D	0	D	0	D	0	D
SB-33 (50-54)	460-49593-2	56		74		52		62		75		85	
	MB 460-143723/1-A	82		92		80		76		76		86	
	LCS 460-143723/2-A	62		70		64		59		66		66	
	460-49586-A-16-D MS	69		78		75		79		66		59	
	460-49586-A-16-E MSD	56		65		64		68		60		54	

	QC LIMITS
2FP = 2-Fluorophenol	37-125
PHL = Phenol-d5	41-118
NBZ = Nitrobenzene-d5	38-105
FBP = 2-Fluorobiphenyl	40-109
TBP = 2,4,6-Tribromophenol	10-120
TPH = Terphenyl-d14	16-151

Column to be used to flag recovery values

FORM II 8270C

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 460-49385-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-49385-1	SB-28 (33-35)	Solid	01/10/2013 1000	01/11/2013 1600
460-49385-2	SB-28 (65-66)	Solid	01/10/2013 1200	01/11/2013 1600
460-49385-3	SB-27 (80-85)	Waste	01/11/2013 1000	01/11/2013 1600
460-49385-4	SB-27 (90-92)	Solid	01/11/2013 1030	01/11/2013 1600

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER	Samplers Name (Printed) S. WRIGHT	Site/Project Identification NATIONAL GRID - EQUITY
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☒	LAB USE ONLY Project No:
City MANHATTAN State NY	Rush Chrages Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	Job No: 49385
Phone 212-510-2100 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of. Cont.	VOCs 8260	SVOCs 8270	Sample Numbers
SB-28 (33-35)	1-10-13	1000	SOIL	5	X	X	-1
SB-28 (65-66)	1-10-13	1200	SOIL	5	X	X	-2
SB-27 (80-85)	1-11-13	1000	SOIL	5	X	X	-3
SB-27 (90-92)	1-11-13	1030	SOIL	5	X	X	-4

NOTE: SAMPLE (80-85) IS SATURATED W/ TAR

Short Hold

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Soil: 1 1

Water:

Special Instructions EDD FORMAT TO COLLEEN.SCOTT@AECOM.COM

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
[signature]	AECOM	1/11/13 13:20	1) Rajzi Mastov	T.A.N.Y.C
2) Rajzi Mastov	T.A.N.Y.C.	1/11/13 18:00	2) [signature]	TA Edison 1/11/13 6:00
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578)

4.0/4.4 IR # 4 NOCs

01/24/2013

TestAmerica Edison Receipt Temperature and pH Log

Job Number: 49385

Number of Coolers: 1 IR Gun #: 4

Temp. Cooler #1 (Deg C) (Raw/Corrected): 4.0/4.4 Temp. Cooler #4 (Deg C) (Raw/Corrected): _____ Temp. Cooler #7 (Deg C) (Raw/Corrected): _____

Temp. Cooler #2 (Deg C) (Raw/Corrected): _____ Temp. Cooler #5 (Deg C) (Raw/Corrected): _____ Temp. Cooler #8 (Deg C) (Raw/Corrected): _____

Temp. Cooler #3 (Deg C) (Raw/Corrected): _____ Temp. Cooler #6 (Deg C) (Raw/Corrected): _____ Temp. Cooler #9 (Deg C) (Raw/Corrected): _____

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 3, 10/8/12

Initials: _____ Date: _____

01/24/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-49385-1

Login Number: 49385
List Number: 1
Creator: Lysy, Susan

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4°C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143173/5

Matrix: Solid | Lab File ID: o68914.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/14/2013 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.533	J	1.0	0.15
67-64-1	Acetone	3.21	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
179601-23-1	m&p-Xylene	0.59	U	2.0	0.59
95-47-6	o-Xylene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49385-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-143173/5

Matrix: Solid | Lab File ID: o68914.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/14/2013 22:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 143173 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130
460-00-4	Bromofluorobenzene	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-143173/5

Matrix: Solid Lab File ID: o68914.d

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 01/14/2013 22:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 143173 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Waste Level: Medium

GC Column (1): Rtx-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA	#	TOL	#	BFB	#
SB-27 (80-85)	460-49385-3	0	X	0	X	0	X
	MB 460-143372/5	110		101		97	
	LCS 460-143372/3	113		98		97	
	LCSD 460-143372/4	110		98		96	

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	75-135
TOL = Toluene-d8 (Surr)	59-150
BFB = Bromofluorobenzene	72-133

Column to be used to flag recovery values

FORM II 8260B

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-142587/2	d28119.d
Level 2	IC 460-142587/3	d28120.d
Level 3	ICIS 460-142587/4	d28121.d
Level 4	IC 460-142587/5	d28122.d
Level 5	IC 460-142587/6	d28123.d
Level 6	IC 460-142587/7	d28124.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3810 0.3327	0.3756	0.3015	0.3470	0.3658	Ave		0.3506				8.6		15.0			
Chloromethane	0.5552 0.4117	0.4902	0.3796	0.4185	0.4572	Ave		0.4521			0.1000	14.0		15.0			
Vinyl chloride	0.4189 0.3901	0.4346	0.3522	0.3974	0.4314	Ave		0.4041				7.7		30.0			
Bromomethane	0.2858 0.2509	0.2796	0.2384	0.2628	0.2781	Ave		0.2659				7.0		15.0			
Chloroethane	0.2125 0.1936	0.2099	0.1781	0.2020	0.2126	Ave		0.2015				6.8		15.0			
n-Pentane	0.0602 0.0482	0.0427	0.0450	0.0495	0.0526	Ave		0.0497				12.4		15.0			
Trichlorofluoromethane	0.4824 0.4465	0.4691	0.3938	0.4559	0.4902	Ave		0.4563				7.6		15.0			
Dichlorofluoromethane	0.6302 0.5579	0.6120	0.5232	0.5776	0.6101	Ave		0.5852				6.8		15.0			
Isopropene	0.4762 0.3877	0.3477	0.3490	0.3837	0.4230	Ave		0.3945				12.4		15.0			
Ethyl ether	0.2846 0.2412	0.2733	0.2555	0.2636	0.2721	Ave		0.2650				5.7		15.0			
1,1-Dichloroethene	0.2967 0.2370	0.2571	0.2363	0.2428	0.2637	Ave		0.2556				9.0		30.0			
Carbon disulfide	0.8714 0.9859	0.8595	0.7878	0.9242	1.0624	Ave		0.9152				10.7		15.0			
Ethanol	0.0020 0.0024	0.0020	0.0021	0.0021	0.0024	Ave		0.0022				7.7		15.0			
Freon TF	0.2872 0.2803	0.2367	0.2496	0.2772	0.3118	Ave		0.2738				9.8		15.0			
Iodomethane	0.5684 0.5503	0.6098	0.5295	0.5756	0.6141	Ave		0.5746				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclopentene	0.9660 0.8664	0.8911	0.8030	0.8999	0.9675	Ave		0.8990				7.0		15.0			
Acrolein	0.0512 0.0449	0.0549	0.0477	0.0495	0.0506	Ave		0.0498				6.8		15.0			
Methylene Chloride	0.3789 0.3372	0.3781	0.3387	0.3580	0.3747	Ave		0.3609				5.4		15.0			
Acetone	0.0570 0.0376	0.0481	0.0482	0.0442	0.0504	Ave		0.0476				13.5		15.0			
trans-1,2-Dichloroethene	0.3566 0.3189	0.3433	0.3157	0.3332	0.3528	Ave		0.3367				5.1		15.0			
Methyl acetate	0.8474 0.7620	0.7970	0.7657	0.6994	0.8744	Ave		0.7910				8.0		15.0			
Hexane	0.2720 0.1956	0.2060	0.2006	0.2126	0.2274	Ave		0.2190				12.9		15.0			
MTBE	1.0049 0.9698	1.0894	0.9702	1.0203	1.0788	Ave		1.0222				5.1		15.0			
TBA	0.0478 0.0396	0.0460	0.0417	0.0438	0.0475	Ave		0.0444				7.4		15.0			
Acetonitrile	0.0089 0.0103	0.0123	0.0108	0.0106	0.0111	Ave		0.0107				10.4		15.0			
DIPE	1.1306 1.0525	1.1872	1.0591	1.1152	1.1781	Ave		1.1205				5.1		15.0			
1,1-Dichloroethane	0.6244 0.5855	0.6366	0.5840	0.6093	0.6534	Ave		0.6155			0.1000	4.5		15.0			
Acrylonitrile	0.1437 0.1493	0.1582	0.1568	0.1605	0.1657	Ave		0.1557				5.1		15.0			
Tert-butyl ethyl ether	0.4520 0.4266	0.4507	0.4134	0.4373	0.4678	Ave		0.4413				4.4		15.0			
Vinyl acetate	0.6229 0.6982	0.7457	0.7184	0.7536	0.7724	Ave		0.7186				7.5		15.0			
cis-1,2-Dichloroethene	0.4055 0.3618	0.3910	0.3614	0.3816	0.3990	Ave		0.3834				4.9		15.0			
2,2-Dichloropropane	0.4679 0.4542	0.4623	0.4506	0.4660	0.5073	Ave		0.4680				4.4		15.0			
Bromochloromethane	0.1992 0.1860	0.1989	0.1840	0.1942	0.2057	Ave		0.1947				4.3		15.0			
Cyclohexane	0.6436 0.5029	0.4992	0.4819	0.5288	0.5695	Ave		0.5376				11.2		15.0			
Chloroform	0.6053 0.5700	0.6019	0.5745	0.5925	0.6303	Ave		0.5958				3.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.4475 0.5000	0.4404	0.4357	0.4757	0.5402	Ave		0.4733				8.6		15.0			
Ethyl acetate	0.0282 0.0451	0.0445	0.0415	0.0444	0.0488	LinF		0.0456							0.9988		0.9900
Tetrahydrofuran	0.2851 0.1931	0.2019	0.1855	0.1957	0.2119	LinF		0.1959							0.9984		0.9900
1,1,1-Trichloroethane	0.4726 0.4861	0.4518	0.4622	0.4871	0.5338	Ave		0.4823				5.9		15.0			
1,1-Dichloropropene	0.4184 0.3987	0.3894	0.3905	0.4038	0.4407	Ave		0.4069				4.8		15.0			
2-Butanone	0.0490 0.0666	0.0558	0.0661	0.0659	0.0754	Ave		0.0631				14.7		15.0			
Benzene	1.9784 1.7412	1.9758	1.8299	1.8711	1.9175	Ave		1.8857				4.9		15.0			
Propionitrile	0.0659 0.0613	0.0636	0.0612	0.0638	0.0679	Ave		0.0639				4.1		15.0			
Tert-amyl methyl ether	0.9518 0.9592	1.0370	0.9426	1.0040	1.0589	Ave		0.9922				4.9		15.0			
1,2-Dichloroethane	0.4364 0.4233	0.4493	0.4230	0.4393	0.4655	Ave		0.4395				3.7		15.0			
Isobutyl alcohol	0.0173 0.0188	0.0190	0.0189	0.0200	0.0211	Ave		0.0192				6.6		15.0			
Isopropyl acetate	1.1332 0.7333	0.8948	0.7241	0.7542	0.8047	LinF		0.7440							0.9983		0.9900
Methylcyclohexane	0.4178 0.4029	0.3671	0.3822	0.4192	0.4621	Ave		0.4086				8.1		15.0			
Trichloroethene	0.3477 0.3281	0.3450	0.3220	0.3361	0.3622	Ave		0.3402				4.3		15.0			
Dibromomethane	0.2198 0.2218	0.2226	0.2075	0.2174	0.2402	Ave		0.2215				4.8		15.0			
n-Butanol	0.0060 0.0050	0.0070	0.0054	0.0058	0.0057	Ave		0.0058				11.9		15.0			
1,2-Dichloropropane	0.3477 0.3489	0.3498	0.3296	0.3479	0.3789	Ave		0.3505				4.5		30.0			
Ethyl acrylate	0.4319 0.5037	0.4766	0.4142	0.4554	0.5222	Ave		0.4673				8.9		15.0			
Bromodichloromethane	0.3675 0.4436	0.3661	0.3692	0.4113	0.4716	Ave		0.4049				11.1		15.0			
Methyl methacrylate	0.0674 0.1074	0.0855	0.0898	0.1013	0.1139	LinF		0.1083							0.9992		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.0061 0.0050	0.0047	0.0045	0.0046	0.0054	Ave		0.0050				12.7		15.0			
Propyl acetate	0.5381 0.5444	0.4461	0.4490	0.4863	0.5726	Ave		0.5061				10.5		15.0			
2-Chloroethyl vinyl ether	0.1602 0.2404	0.2006	0.1917	0.2181	0.2530	LinF		0.2420							0.9993		0.9900
cis-1,3-Dichloropropene	0.6103 0.7621	0.6449	0.6582	0.7173	0.8024	Ave		0.6992				10.6		15.0			
Toluene	1.9663 1.8220	1.8484	1.7503	1.8429	1.9645	Ave		1.8657				4.5		30.0			
Epichlorohydrin	0.0384 0.0543	0.0501	0.0502	0.0537	0.0576	Ave		0.0507				13.1		15.0			
Tetrachloroethene	0.5090 0.4689	0.4710	0.4583	0.4753	0.5094	Ave		0.4820				4.5		15.0			
4-Methyl-2-pentanone	0.5510 0.5451	0.5432	0.5052	0.5358	0.5912	Ave		0.5452				5.1		15.0			
trans-1,3-Dichloropropene	0.4916 0.6819	0.5336	0.5560	0.6179	0.7094	Ave		0.5984				14.4		15.0			
1,1,2-Trichloroethane	0.3419 0.3470	0.3422	0.3338	0.3498	0.3706	Ave		0.3475				3.6		15.0			
Ethyl methacrylate	0.3334 0.4950	0.4022	0.4003	0.4497	0.5248	LinF		0.4988							0.9991		0.9900
Dibromochloromethane	0.3327 0.4962	0.3657	0.3775	0.4340	0.5063	LinF		0.4970							0.9996		0.9900
1,3-Dichloropropane	0.6444 0.7012	0.6899	0.6639	0.6905	0.7443	Ave		0.6890				5.0		15.0			
1,2-Dibromoethane	0.3704 0.4236	0.4059	0.3894	0.4130	0.4474	Ave		0.4083				6.6		15.0			
Butyl acetate	0.1050 0.1360	0.1247	0.1216	0.1324	0.1438	Ave		0.1272				10.6		15.0			
2-Hexanone	0.3332 0.3860	0.3731	0.3736	0.3657	0.4065	Ave		0.3730				6.5		15.0			
Chlorobenzene	1.2416 1.2043	1.1994	1.1215	1.1797	1.2780	Ave		1.2041			0.3000	4.4		15.0			
Ethylbenzene	0.6596 0.6066	0.6066	0.5947	0.6144	0.6591	Ave		0.6235				4.6		30.0			
1,1,1,2-Tetrachloroethane	0.3797 0.4541	0.4201	0.4202	0.4565	0.4947	Ave		0.4375				9.1		15.0			
m&p-Xylene	0.7685 0.7407	0.7550	0.7404	0.7634	0.8091	Ave		0.7628				3.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
o-Xylene	0.7891 0.7541	0.7782	0.7516	0.7863	0.8278	Ave		0.7812				3.6		15.0			
Bromoform	0.2507 0.3594	0.2391	0.2597	0.3039	0.3629	LinF		0.3593							0.9995		0.9900
Styrene	1.1486 1.2804	1.1834	1.1694	1.2491	1.3463	Ave		1.2295				6.2		15.0			
Butyl acrylate	0.2462 0.3622	0.3131	0.3197	0.3552	0.3839	Ave		0.3300				14.8		15.0			
Isopropylbenzene	1.9113 1.8459	1.9139	1.8943	1.9568	2.0431	Ave		1.9276				3.5		15.0			
Camphene, Total	0.1502 0.0954	0.0984	0.1007	0.1084	0.1092	LinF		0.0976							0.9963		0.9900
Amly acetate	1.1488 1.6417	1.4279	1.3911	1.5608	1.7512	Ave		1.4869				14.3		15.0			
Monobromobenzene	0.9712 0.9808	0.9530	0.8815	0.9569	1.0599	Ave		0.9672				5.9		15.0			
N-Propylbenzene	3.9526 3.8536	3.8015	3.7199	3.9362	4.3228	Ave		3.9311				5.4		15.0			
1,1,2,2-Tetrachloroethane	0.9278 1.0777	0.9845	0.9688	1.0504	1.1507	Ave		1.0267			0.3000	8.0		15.0			
p-Ethyltoluene	1.1904 1.2747	1.2416	1.1695	1.2728	1.4133	Ave		1.2604				6.8		15.0			
2-Chlorotoluene	2.8079 2.8429	2.7351	2.6208	2.8123	3.1182	Ave		2.8229				5.9		15.0			
1,2,3-Trichloropropane	0.2631 0.3007	0.3068	0.2793	0.3016	0.3303	Ave		0.2970				7.8		15.0			
1,3,5-Trimethylbenzene	2.6461 2.8712	2.6774	2.6798	2.8812	3.2084	Ave		2.8273				7.5		15.0			
trans-1,4-Dichloro-2-butene	0.1674 0.2450	0.2264	0.2104	0.2317	0.2607	Ave		0.2236				14.5		15.0			
4-Chlorotoluene	2.5951 2.5505	2.4235	2.3668	2.4651	2.7245	Ave		2.5209				5.1		15.0			
tert-Butylbenzene	1.8913 2.2986	1.9650	2.0547	2.2835	2.5758	Ave		2.1782				11.7		15.0			
Butyl Methacrylate	0.8010 1.1794	0.9760	0.9755	1.1200	1.2672	LinF		1.1915							0.9989		0.9900
1,2,4-Trimethylbenzene	2.7881 2.9704	2.8051	2.7509	2.9396	3.2718	Ave		2.9210				6.6		15.0			
sec-Butylbenzene	2.7034 3.1657	2.9212	3.0054	3.2113	3.5816	Ave		3.0981				9.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142587

SDG No.:

Instrument ID: VOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2013 00:47 Calibration End Date: 01/10/2013 02:41 Calibration ID: 19729

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
p-Isopropyltoluene	2.3967 2.7483	2.5486	2.5986	2.7683	3.0518	Ave		2.6854				8.4		15.0			
1,3-Dichlorobenzene	1.8159 1.6840	1.6742	1.6213	1.6868	1.8298	Ave		1.7187				4.9		15.0			
1,4-Dichlorobenzene	1.9408 1.7189	1.7758	1.6871	1.7499	1.8792	Ave		1.7919				5.5		15.0			
2-Octanone	0.9690 1.4661	1.1922	1.2072	1.4103	1.6134	LinF		1.4872							0.9981		0.9900
Indan	1.0865 1.1601	1.1981	1.1150	1.2068	1.2932	Ave		1.1766				6.3		15.0			
1,4-Diethylbenzene	0.5960 0.5910	0.6018	0.5623	0.6220	0.6726	Ave		0.6076				6.1		15.0			
Benzyl chloride	0.2398 0.4200	0.2880	0.3261	0.3887	0.4478	LinF		0.4237							0.9990		0.9900
n-Butylbenzene	2.4759 2.3985	2.6605	2.7078	2.8071	2.6083	Ave		2.6097				5.8		15.0			
1,2-Dichlorobenzene	1.8457 1.6691	1.7256	1.6240	1.7047	1.8279	Ave		1.7328				5.1		15.0			
1,2,4,5-Tetramethylbenzene	0.8313 0.9966	0.9278	0.8983	1.0047	1.1361	Ave		0.9658				10.9		15.0			
1,2-Dibromo-3-Chloropropane	0.1383 0.1897	0.1453	0.1453	0.1755	0.1950	LinF		0.1903							0.9997		0.9900
Hexachlorobutadiene	0.3762 0.3962	0.3571	0.3799	0.3986	0.4531	Ave		0.3935				8.4		15.0			
1,2,4-Trichlorobenzene	1.0927 0.9832	0.9923	0.9766	1.0754	1.1341	Ave		1.0424				6.4		15.0			
Camphor	0.0857 0.1435	0.0880	0.0905	0.1140	0.1456	LinF		0.1435							0.9991		0.9900
Naphthalene	2.7750 2.6512	2.3825	2.3702	2.6697	2.8686	Ave		2.6195				7.8		15.0			
1,2,3-Trichlorobenzene	1.0254 0.8412	0.8598	0.8066	0.9205	0.9633	Ave		0.9028				9.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2728 0.2634	0.2809	0.2788	0.2746	0.2915	Ave		0.2770				3.4		15.0			
Toluene-d8 (Surr)	1.1310 1.0740	1.1361	1.1035	1.1076	1.1397	Ave		1.1153				2.3		15.0			
Bromofluorobenzene	0.8033 0.8388	0.7949	0.7856	0.8081	0.8891	Ave		0.8200				4.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-142572/2	o68743.d
Level 2	IC 460-142572/3	o68744.d
Level 3	ICIS 460-142572/4	o68745.d
Level 4	IC 460-142572/5	o68746.d
Level 5	IC 460-142572/6	o68747.d
Level 6	IC 460-142572/7	o68748.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3220 0.3952	0.3293	0.3649	0.4364	0.4001	Ave		0.3747				11.8		15.0			
Chloromethane	0.4759 0.4955	0.4086	0.4861	0.5147	0.5001	Ave		0.4801			0.1000	7.8		15.0			
Vinyl chloride	0.3379 0.4158	0.3304	0.3789	0.4246	0.4245	Ave		0.3853				11.2		30.0			
Bromomethane	0.3191 0.2391	0.2388	0.2242	0.2206	0.2246	LinF		0.2371							0.9993		0.9900
Chloroethane	0.2455 0.2338	0.1999	0.2049	0.2218	0.2354	Ave		0.2236				8.1		15.0			
Dichlorofluoromethane	0.4901 0.6073	0.5055	0.6049	0.6538	0.6303	Ave		0.5820				11.6		15.0			
Trichlorofluoromethane	0.4994 0.5701	0.4610	0.5074	0.6090	0.5788	Ave		0.5376				10.6		15.0			
n-Pentane	0.0812 0.0807	0.0719	0.0711	0.0896	0.0838	Ave		0.0797				8.9		15.0			
Isopropene	0.4424 0.5198	0.4046	0.4902	0.5685	0.5415	Ave		0.4945				12.5		15.0			
Ethyl ether	0.2470 0.2431	0.2558	0.2753	0.2709	0.2681	Ave		0.2600				5.1		15.0			
Ethanol	0.0017 0.0019	0.0018	0.0016	0.0016	0.0018	Ave		0.0017				5.9		15.0			
Acrolein	0.0362 0.0341	0.0348	0.0350	0.0346	0.0363	Ave		0.0351				2.6		15.0			
1,1-Dichloroethene	0.2191 0.2737	0.2796	0.2617	0.2848	0.2806	Ave		0.2666				9.2		30.0			
Freon TF	0.2876 0.3509	0.3093	0.3218	0.3890	0.3605	Ave		0.3365				11.0		15.0			
Acetone	0.1028 0.0841	0.1014	0.1223	0.0997	0.0961	Ave		0.1011				12.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.2975 0.3975	0.2382	0.3011	0.3819	0.4317	QuaF		2.2322	0.0707						0.9997		0.9900
Carbon disulfide	0.7837 1.0617	0.7543	0.9457	1.1019	1.0849	LinF		1.0651							0.9999		0.9900
Acetonitrile	0.0762 0.0705	0.0750	0.0769	0.0786	0.0766	Ave		0.0756				3.7		15.0			
Methyl acetate	0.0809 0.0538	0.0742	0.0602	0.0598	0.0583	LinF		0.0545							0.9986		0.9900
Methylene Chloride	0.2973 0.3034	0.3496	0.3286	0.3275	0.3262	Ave		0.3221				5.9		15.0			
TBA	0.0457 0.0312	0.0380	0.0354	0.0334	0.0341	Ave		0.0363				14.1		15.0			
trans-1,2-Dichloroethene	0.2817 0.3425	0.3488	0.3339	0.3504	0.3553	Ave		0.3354				8.2		15.0			
Acrylonitrile	0.1034 0.1192	0.1028	0.1018	0.1034	0.1108	Ave		0.1069				6.4		15.0			
MTBE	0.8906 0.8610	0.8929	0.9273	0.9310	0.9340	Ave		0.9061				3.2		15.0			
Hexane	0.2994 0.3074	0.2637	0.2932	0.3502	0.3253	Ave		0.3065				9.6		15.0			
1,1-Dichloroethane	0.5276 0.6454	0.6564	0.6608	0.6775	0.6757	Ave		0.6406			0.1000	8.8		15.0			
Vinyl acetate	0.8003 0.8173	0.7347	0.8484	0.8460	0.9235	Ave		0.8284				7.5		15.0			
DIPE	1.1903 1.1992	1.1772	1.3199	1.3637	1.3040	Ave		1.2591				6.3		15.0			
Tert-butyl ethyl ether	1.0653 1.0403	1.0512	1.1032	1.1055	1.1215	Ave		1.0812				3.1		15.0			
2,2-Dichloropropane	0.5474 0.5570	0.5534	0.5442	0.5768	0.5698	Ave		0.5581				2.3		15.0			
cis-1,2-Dichloroethene	0.3376 0.3710	0.3998	0.3775	0.3832	0.3862	Ave		0.3759				5.6		15.0			
2-Butanone	0.0314 0.0290	0.0258	0.0324	0.0331	0.0328	Ave		0.0308				9.2		15.0			
Ethyl acetate	0.0290 0.0257	0.0310	0.0264	0.0281	0.0274	Ave		0.0279				6.8		15.0			
Bromochloromethane	0.1386 0.1493	0.1754	0.1570	0.1600	0.1596	Ave		0.1566				7.8		15.0			
Tetrahydrofuran	0.1568 0.0955	0.1117	0.1089	0.1013	0.1034	LinF		0.0967							0.9987		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chloroform	0.5278 0.5945	0.6124	0.6029	0.6208	0.6187	Ave		0.5962				5.9		30.0			
1,1,1-Trichloroethane	0.4103 0.5663	0.5292	0.5343	0.5804	0.5804	Ave		0.5335				12.1		15.0			
Cyclohexane	0.5335 0.6724	0.5577	0.6297	0.7417	0.6893	Ave		0.6374				12.6		15.0			
Carbon tetrachloride	0.3196 0.4988	0.4271	0.4254	0.4897	0.4979	LinF		0.4985							0.9999		0.9900
1,1-Dichloropropene	0.3925 0.4684	0.4568	0.4536	0.4836	0.4773	Ave		0.4554				7.2		15.0			
Benzene	1.1493 1.3973	1.4361	1.4150	1.4740	1.4556	Ave		1.3879				8.6		15.0			
1,2-Dichloroethane	0.3745 0.4072	0.4662	0.4383	0.4300	0.4333	Ave		0.4249				7.3		15.0			
Isopropyl acetate	0.8934 0.7043	0.8459	0.8149	0.7625	0.7629	Ave		0.7973				8.5		15.0			
Tert-amyl methyl ether	0.8685 0.8755	0.8727	0.9376	0.9272	0.9415	Ave		0.9038				3.9		15.0			
2,4,4-Trimethyl-1-pentene	0.1210 0.1365	0.1085	0.1246	0.1531	0.1424	Ave		0.1310				12.3		15.0			
Trichloroethene	0.2604 0.3665	0.3524	0.3445	0.3810	0.3741	Ave		0.3465				12.8		15.0			
n-Butanol	0.0049 0.0045	0.0048	0.0049	0.0047	0.0050	Ave		0.0048				3.5		15.0			
Ethyl acrylate	0.0243 0.0164	0.0181	0.0174	0.0180	0.0177	LinF		0.0166							0.9987		0.9900
Methylcyclohexane	0.5771 0.6506	0.5307	0.6222	0.7365	0.6806	Ave		0.6330				11.6		15.0			
1,2-Dichloropropane	0.2841 0.3468	0.3679	0.3564	0.3587	0.3695	Ave		0.3472				9.2		30.0			
Dibromomethane	0.1742 0.1699	0.1751	0.1801	0.1763	0.1815	Ave		0.1762				2.4		15.0			
Methyl methacrylate	0.1788 0.1917	0.1926	0.2053	0.1993	0.2075	Ave		0.1959				5.4		15.0			
1,4-Dioxane	0.0035 0.0032	0.0037	0.0037	0.0037	0.0030	Ave		0.0035				8.1		15.0			
Propyl acetate	0.3990 0.4122	0.4089	0.4436	0.4412	0.4469	Ave		0.4253				4.9		15.0			
Bromodichloromethane	0.3306 0.4438	0.4056	0.4102	0.4397	0.4633	Ave		0.4155				11.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloroethyl vinyl ether	0.1343 0.1414	0.1277	0.1377	0.1476	0.1412	Ave		0.1383				4.9		15.0			
Epichlorohydrin	0.0225 0.0255	0.0263	0.0258	0.0265	0.0274	Ave		0.0257				6.5		15.0			
cis-1,3-Dichloropropene	0.4058 0.5468	0.5200	0.5307	0.5574	0.5786	Ave		0.5232				11.7		15.0			
4-Methyl-2-pentanone	0.2420 0.2703	0.2631	0.2930	0.2844	0.2952	Ave		0.2747				7.4		15.0			
Toluene	1.9323 2.0446	2.1676	2.1715	2.1903	2.1470	Ave		2.1089				4.8		30.0			
trans-1,3-Dichloropropene	0.4475 0.6522	0.5892	0.6304	0.6426	0.6798	Ave		0.6069				13.8		15.0			
1,1,2-Trichloroethane	0.3012 0.2917	0.3344	0.3095	0.3029	0.3103	Ave		0.3083				4.7		15.0			
Tetrachloroethene	0.5107 0.5866	0.5985	0.5848	0.6231	0.5987	Ave		0.5838				6.6		15.0			
1,3-Dichloropropane	0.5750 0.6191	0.6682	0.6781	0.6486	0.6592	Ave		0.6413				6.0		15.0			
2-Hexanone	0.2350 0.2648	0.2539	0.2678	0.2705	0.2815	Ave		0.2622				6.1		15.0			
Dibromochloromethane	0.3078 0.4400	0.3783	0.3947	0.4120	0.4546	Ave		0.3979				13.2		15.0			
1,2-Dibromoethane	0.3165 0.3480	0.3575	0.3605	0.3556	0.3668	Ave		0.3508				5.1		15.0			
Butyl acetate	0.9402 0.6358	0.6876	0.6920	0.6721	0.6837	LinF		0.6432							0.9990		0.9900
Chlorobenzene	1.1409 1.2946	1.3354	1.3346	1.3309	1.3358	Ave		1.2954			0.3000	6.0		15.0			
1,1,1,2-Tetrachloroethane	0.3350 0.4737	0.4088	0.4611	0.4623	0.4892	Ave		0.4384				13.1		15.0			
Ethylbenzene	0.5850 0.7342	0.7637	0.7574	0.7578	0.7605	Ave		0.7264				9.6		30.0			
m&p-Xylene	0.6913 0.9136	0.8943	0.9275	0.9292	0.9271	Ave		0.8805				10.6		15.0			
o-Xylene	0.7174 0.8730	0.8626	0.9000	0.8882	0.8973	Ave		0.8564				8.1		15.0			
Styrene	1.1361 1.4954	1.4616	1.5182	1.5283	1.5256	Ave		1.4442				10.6		15.0			
Butyl acrylate	2.3879 1.5139	1.5200	1.5603	1.5705	1.6073	LinF		1.5279							0.9993		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.2076 0.3042	0.2333	0.2392	0.2657	0.3074	LinF		0.3043			0.1000				0.9997		0.9900
Amly acetate	0.6517 0.6999	0.6554	0.7179	0.7236	0.7573	Ave		0.7010				5.9		15.0			
Isopropylbenzene	1.7863 2.3884	2.4671	2.4437	2.5110	2.4545	Ave		2.3418				11.7		15.0			
Camphene, Total	0.4485 0.4308	0.3527	0.4095	0.4830	0.4551	Ave		0.4299				10.5		15.0			
Monobromobenzene	1.0239 1.0853	1.1558	1.1087	1.1247	1.1291	Ave		1.1046				4.2		15.0			
1,1,2,2-Tetrachloroethane	0.8150 0.8391	0.8817	0.8674	0.8451	0.8945	Ave		0.8571			0.3000	3.4		15.0			
1,2,3-Trichloropropane	0.2126 0.2454	0.2655	0.2516	0.2462	0.2571	Ave		0.2464				7.4		15.0			
trans-1,4-Dichloro-2-butene	0.0913 0.0922	0.0870	0.0843	0.0894	0.0973	Ave		0.0902				5.0		15.0			
N-Propylbenzene	4.2989 5.4644	5.5545	5.4987	5.6738	5.5846	Ave		5.3458				9.7		15.0			
2-Chlorotoluene	2.5123 3.0788	3.2478	3.1604	3.1745	3.1541	Ave		3.0547				8.9		15.0			
p-Ethyltoluene	1.3193 1.6279	1.4202	1.6719	1.7691	1.7064	Ave		1.5858				11.1		15.0			
4-Chlorotoluene	2.6064 3.1611	3.2479	3.2663	3.2116	3.2332	Ave		3.1211				8.2		15.0			
1,3,5-Trimethylbenzene	3.1014 3.6991	3.8279	3.7999	3.8214	3.7933	Ave		3.6738				7.7		15.0			
Butyl Methacrylate	1.0409 1.3254	1.0835	1.2975	1.3574	1.4442	Ave		1.2582				12.7		15.0			
tert-Butylbenzene	2.5747 3.3247	3.4157	3.3150	3.4802	3.4510	Ave		3.2602				10.5		15.0			
1,2,4-Trimethylbenzene	2.9724 3.7069	3.8216	3.8029	3.8183	3.8445	Ave		3.6611				9.3		15.0			
sec-Butylbenzene	3.6991 4.9505	5.0761	4.9500	5.2502	5.1618	Ave		4.8480				11.9		15.0			
1,3-Dichlorobenzene	1.9304 2.0830	2.2395	2.1795	2.1708	2.1825	Ave		2.1310				5.2		15.0			
1,4-Dichlorobenzene	1.9930 2.1286	2.2408	2.1933	2.1503	2.1965	Ave		2.1504				4.0		15.0			
p-Isopropyltoluene	3.3177 4.2355	4.2523	4.2417	4.3390	4.3172	Ave		4.1172				9.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 142572

SDG No.:

Instrument ID: VOAMS12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/09/2013 22:13 Calibration End Date: 01/10/2013 00:17 Calibration ID: 19728

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzyl chloride	1.0407 1.4789	1.1590	1.3172	1.4280	1.5583	Ave		1.3304				14.9		15.0			
1,2-Dichlorobenzene	1.7141 1.9239	2.0312	2.0044	1.9765	2.0206	Ave		1.9451				6.1		15.0			
1,4-Diethylbenzene	0.7300 0.9230	0.7898	0.9542	1.0094	0.9945	Ave		0.9002				12.7		15.0			
n-Butylbenzene	3.6892 4.6179	4.7124	4.7429	4.9261	4.8273	Ave		4.5860				9.8		15.0			
1,2-Dibromo-3-Chloropropane	0.3027 0.1827	0.1868	0.1832	0.1720	0.1882	LinF		0.1834							0.9998		0.9900
1,2,4,5-Tetramethylbenzene	1.2159 1.4333	1.2531	1.5010	1.5607	1.5418	Ave		1.4176				10.5		15.0			
Camphor	0.0796 0.0837	0.0801	0.0843	0.0848	0.0881	Ave		0.0834				3.8		15.0			
1,2,4-Trichlorobenzene	1.3642 1.5091	1.6212	1.5887	1.5248	1.5437	Ave		1.5253				5.8		15.0			
Hexachlorobutadiene	0.9084 1.0060	1.0520	0.9784	1.0148	1.0114	Ave		0.9952				4.9		15.0			
Naphthalene	2.5828 2.7744	3.0040	2.9755	2.9029	2.9292	Ave		2.8615				5.5		15.0			
1,2,3-Trichlorobenzene	1.2511 1.3632	1.4757	1.4259	1.3936	1.4044	Ave		1.3857				5.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2011 0.1835	0.1986	0.1925	0.1945	0.1959	Ave		0.1943				3.2		15.0			
Toluene-d8 (Surr)	0.9772 0.9020	0.9583	0.9744	0.9581	0.9505	Ave		0.9534				2.9		15.0			
Bromofluorobenzene	0.7623 0.7167	0.7319	0.7415	0.7506	0.7481	Ave		0.7418				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143173/2 Calibration Date: 01/14/2013 20:06

Instrument ID: VOAMS12 Calib Start Date: 01/09/2013 22:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/10/2013 00:17

Lab File ID: o68910.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3747	0.4043		21.6	20.0	7.9	50.0
Chloromethane	Ave	0.4801	0.5403	0.1000	22.5	20.0	12.5	50.0
Vinyl chloride	Ave	0.3853	0.4390		22.8	20.0	13.9	20.0
Bromomethane	LinF	0.2444	0.2694		22.7	20.0	13.6	50.0
Chloroethane	Ave	0.2236	0.2397		21.4	20.0	7.2	50.0
Dichlorofluoromethane	Ave	0.5820	0.6778		23.3	20.0	16.5	50.0
Trichlorofluoromethane	Ave	0.5376	0.5875		21.9	20.0	9.3	50.0
n-Pentane	Ave	0.0797	0.0811		40.7	40.0	1.7	50.0
Isopropene	Ave	0.4945	0.5531		22.4	20.0	11.9	50.0
Ethyl ether	Ave	0.2600	0.2937		22.6	20.0	13.0	50.0
Ethanol	Ave	0.0017	0.0021		3550	3000	18.2	50.0
Acrolein	Ave	0.0351	0.0417		356	300	18.6	99.0
1,1-Dichloroethene	Ave	0.2666	0.2949		22.1	20.0	10.6	20.0
Freon TF	Ave	0.3365	0.3784		22.5	20.0	12.4	50.0
Acetone	Ave	0.1011	0.1291		25.6	20.0	27.8	50.0 ND
Iodomethane	QuaF	0.3413	0.3424		15.4	20.0	-23.2	50.0
Carbon disulfide	LinF	0.9554	1.107		20.8	20.0	4.0	50.0
Acetonitrile	Ave	0.0756	0.0904		478	400	19.6	50.0
Methyl acetate	LinF	0.0645	0.0764		28.0	20.0	40.1	50.0
Methylene Chloride	Ave	0.3221	0.3669		22.8	20.0	13.9	50.0
TBA	Ave	0.0363	0.0454		500	400	24.9	50.0
trans-1,2-Dichloroethene	Ave	0.3354	0.3782		22.6	20.0	12.8	50.0
Acrylonitrile	Ave	0.1069	0.1217		171	150	13.8	50.0
MTBE	Ave	0.9061	1.022		22.6	20.0	12.8	50.0
Hexane	Ave	0.3065	0.3332		21.7	20.0	8.7	50.0
1,1-Dichloroethane	Ave	0.6406	0.7244	0.1000	22.6	20.0	13.1	50.0
Vinyl acetate	Ave	0.8284	0.9344		45.1	40.0	12.8	50.0
DIPE	Ave	1.259	1.330		21.1	20.0	5.6	50.0
Tert-butyl ethyl ether	Ave	1.081	1.134	0.0100	21.0	20.0	4.9	50.0
2,2-Dichloropropane	Ave	0.5581	0.6254		22.4	20.0	12.1	50.0
cis-1,2-Dichloroethene	Ave	0.3759	0.4127		22.0	20.0	9.8	50.0
2-Butanone	Ave	0.0308	0.0426		27.7	20.0	38.6	50.0
Ethyl acetate	Ave	0.0279	0.0327		46.8	40.0	17.0	50.0
Bromochloromethane	Ave	0.1566	0.1778		22.7	20.0	13.5	50.0
Tetrahydrofuran	LinF	0.1129	0.1296		26.8	20.0	34.0	50.0
Chloroform	Ave	0.5962	0.6644		22.3	20.0	11.4	20.0
1,1,1-Trichloroethane	Ave	0.5335	0.6083		22.8	20.0	14.0	50.0
Cyclohexane	Ave	0.6374	0.7258		22.8	20.0	13.9	50.0
Carbon tetrachloride	LinF	0.4431	0.4905		19.7	20.0	-1.6	50.0
1,1-Dichloropropene	Ave	0.4554	0.4993		21.9	20.0	9.6	50.0
Benzene	Ave	1.388	1.559		22.5	20.0	12.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143173/2 Calibration Date: 01/14/2013 20:06

Instrument ID: VOAMS12 Calib Start Date: 01/09/2013 22:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/10/2013 00:17

Lab File ID: o68910.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4249	0.4729		22.3	20.0	11.3	50.0
Isopropyl acetate	Ave	0.7973	0.9261		46.5	40.0	16.1	50.0
Tert-amyl methyl ether	Ave	0.9038	0.9790		21.7	20.0	8.3	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.1310	0.1507		46.0	40.0	15.0	50.0
Trichloroethene	Ave	0.3465	0.3917		22.6	20.0	13.0	50.0
n-Butanol	Ave	0.0048	0.0062		1940	1500	29.3	50.0
Ethyl acrylate	LinF	0.0186	0.0213		25.7	20.0	28.5	50.0
Methylcyclohexane	Ave	0.6330	0.7293		23.0	20.0	15.2	50.0
1,2-Dichloropropane	Ave	0.3472	0.3733		21.5	20.0	7.5	20.0
Dibromomethane	Ave	0.1762	0.1956		22.2	20.0	11.0	50.0
Methyl methacrylate	Ave	0.1959	0.2333		23.8	20.0	19.1	50.0
1,4-Dioxane	Ave	0.0035	0.0038		165	150	10.2	50.0
Propyl acetate	Ave	0.4253	0.4993		23.5	20.0	17.4	50.0
Bromodichloromethane	Ave	0.4155	0.4517		21.7	20.0	8.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1383	0.1716		24.8	20.0	24.0	50.0
Epichlorohydrin	Ave	0.0257	0.0347		541	400	35.3	50.0
cis-1,3-Dichloropropene	Ave	0.5232	0.5909		22.6	20.0	12.9	50.0
4-Methyl-2-pentanone	Ave	0.2747	0.3367		24.5	20.0	22.6	50.0
Toluene	Ave	2.109	2.220		21.1	20.0	5.3	20.0
trans-1,3-Dichloropropene	Ave	0.6069	0.6395		21.1	20.0	5.4	50.0
1,1,2-Trichloroethane	Ave	0.3083	0.3195		20.7	20.0	3.6	50.0
Tetrachloroethene	Ave	0.5838	0.6407		22.0	20.0	9.8	50.0
1,3-Dichloropropane	Ave	0.6413	0.6746		21.0	20.0	5.2	50.0
2-Hexanone	Ave	0.2622	0.3119		23.8	20.0	19.0	50.0
Dibromochloromethane	Ave	0.3979	0.4204		21.1	20.0	5.7	50.0
1,2-Dibromoethane	Ave	0.3508	0.3787		21.6	20.0	7.9	50.0
Butyl acetate	LinF	0.7186	0.7269		45.2	40.0	13.0	50.0
Chlorobenzene	Ave	1.295	1.396	0.3000	21.6	20.0	7.8	50.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4715		21.5	20.0	7.6	50.0
Ethylbenzene	Ave	0.7264	0.7803		21.5	20.0	7.4	20.0
m&p-Xylene	Ave	0.8805	0.9564		43.4	40.0	8.6	50.0
o-Xylene	Ave	0.8564	0.9161		21.4	20.0	7.0	50.0
Styrene	Ave	1.444	1.565		21.7	20.0	8.3	50.0
Butyl acrylate	LinF	1.693	1.554		20.3	20.0	1.7	50.0
Bromoform	LinF	0.2596	0.2782	0.1000	18.3	20.0	-8.6	50.0
Amly acetate	Ave	0.7010	0.7492		21.4	20.0	6.9	50.0
Isopropylbenzene	Ave	2.342	2.559		21.9	20.0	9.3	50.0
Camphene, Total	Ave	0.4299	0.4245		19.7	20.0	-1.3	50.0
Monobromobenzene	Ave	1.105	1.160		21.0	20.0	5.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.8571	0.9300	0.3000	21.7	20.0	8.5	50.0
1,2,3-Trichloropropane	Ave	0.2464	0.2804		22.8	20.0	13.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143173/2 Calibration Date: 01/14/2013 20:06

Instrument ID: VOAMS12 Calib Start Date: 01/09/2013 22:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/10/2013 00:17

Lab File ID: o68910.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Ave	0.0902	0.1126		24.9	20.0	24.7	50.0
N-Propylbenzene	Ave	5.346	5.547		20.8	20.0	3.8	50.0
2-Chlorotoluene	Ave	3.055	3.204		21.0	20.0	4.9	50.0
p-Ethyltoluene	Ave	1.586	1.931		24.3	20.0	21.7	50.0
4-Chlorotoluene	Ave	3.121	3.256		20.9	20.0	4.3	50.0
1,3,5-Trimethylbenzene	Ave	3.674	3.863		21.0	20.0	5.1	50.0
Butyl Methacrylate	Ave	1.258	1.278		20.3	20.0	1.5	50.0
tert-Butylbenzene	Ave	3.260	3.448		21.2	20.0	5.8	50.0
1,2,4-Trimethylbenzene	Ave	3.661	3.903		21.3	20.0	6.6	50.0
sec-Butylbenzene	Ave	4.848	5.156		21.3	20.0	6.4	50.0
1,3-Dichlorobenzene	Ave	2.131	2.295		21.5	20.0	7.7	50.0
1,4-Dichlorobenzene	Ave	2.150	2.331		21.7	20.0	8.4	50.0
p-Isopropyltoluene	Ave	4.117	4.418		21.5	20.0	7.3	50.0
Benzyl chloride	Ave	1.330	1.773		26.6	20.0	33.2	50.0
1,2-Dichlorobenzene	Ave	1.945	2.143		22.0	20.0	10.1	50.0
1,4-Diethylbenzene	Ave	0.9002	1.146		25.5	20.0	27.3	50.0
n-Butylbenzene	Ave	4.586	5.050		22.0	20.0	10.1	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.2026	0.2043		22.3	20.0	11.4	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.418	1.729		24.4	20.0	21.9	50.0
Camphor	Ave	0.0834	0.1055		126	100	26.5	50.0
1,2,4-Trichlorobenzene	Ave	1.525	1.773		23.2	20.0	16.2	50.0
Hexachlorobutadiene	Ave	0.995	1.081		21.7	20.0	8.6	50.0
Naphthalene	Ave	2.861	3.365		23.5	20.0	17.6	50.0
1,2,3-Trichlorobenzene	Ave	1.386	1.570		22.7	20.0	13.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1943	0.1885		48.5	50.0	-3.0	50.0
Toluene-d8 (Surr)	Ave	0.9534	0.8644		45.3	50.0	-9.3	50.0
Bromofluorobenzene	Ave	0.7418	0.7012		47.3	50.0	-5.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143372/2 Calibration Date: 01/16/2013 07:57

Instrument ID: VOAMS4 Calib Start Date: 01/10/2013 00:47

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/10/2013 02:41

Lab File ID: d28244.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3506	0.3510		20.0	20.0	0.1	50.0
Chloromethane	Ave	0.4521	0.4920	0.1000	21.8	20.0	8.8	50.0
Vinyl chloride	Ave	0.4041	0.4366		21.6	20.0	8.0	20.0
Bromomethane	Ave	0.2659	0.2820		21.2	20.0	6.1	50.0
Chloroethane	Ave	0.2015	0.2217		22.0	20.0	10.0	50.0
n-Pentane	Ave	0.0497	0.0377		30.3	40.0	-24.2	50.0
Trichlorofluoromethane	Ave	0.4563	0.4741		20.8	20.0	3.9	50.0
Dichlorofluoromethane	Ave	0.5852	0.6643		22.7	20.0	13.5	50.0
Isopropene	Ave	0.3945	0.4276		21.7	20.0	8.4	50.0
Ethyl ether	Ave	0.2650	0.3197		24.1	20.0	20.6	50.0
1,1-Dichloroethene	Ave	0.2556	0.2522		19.7	20.0	-1.3	20.0
Carbon disulfide	Ave	0.9152	1.025		22.4	20.0	12.0	50.0
Ethanol	Ave	0.0022	0.0023		3220	3000	7.3	50.0
Freon TF	Ave	0.2738	0.2390		17.5	20.0	-12.7	50.0
Iodomethane	Ave	0.5746	0.6301		21.9	20.0	9.7	50.0
Cyclopentene	Ave	0.8990	0.9489		21.1	20.0	5.6	50.0
Acrolein	Ave	0.0498	0.0577		46.4	40.0	15.9	99.0
Methylene Chloride	Ave	0.3609	0.3840		21.3	20.0	6.4	50.0
Acetone	Ave	0.0476	0.0505		21.2	20.0	6.1	50.0
trans-1,2-Dichloroethene	Ave	0.3367	0.3562		21.2	20.0	5.8	50.0
Methyl acetate	Ave	0.7910	0.8416		21.3	20.0	6.4	50.0
Hexane	Ave	0.2190	0.1748		16.0	20.0	-20.2	50.0
MTBE	Ave	1.022	1.274		24.9	20.0	24.6	50.0
TBA	Ave	0.0444	0.0531		478	400	19.6	50.0
Acetonitrile	Ave	0.0107	0.0084		314	400	-21.6	50.0
DIPE	Ave	1.120	1.417		25.3	20.0	26.5	50.0
1,1-Dichloroethane	Ave	0.6155	0.6690	0.1000	21.7	20.0	8.7	50.0
Acrylonitrile	Ave	0.1557	0.1859		23.9	20.0	19.4	50.0
Tert-butyl ethyl ether	Ave	0.4413	0.5162	0.0100	23.4	20.0	17.0	50.0
Vinyl acetate	Ave	0.7186	0.9448		52.6	40.0	31.5	50.0
cis-1,2-Dichloroethene	Ave	0.3834	0.4094		21.4	20.0	6.8	50.0
2,2-Dichloropropane	Ave	0.4680	0.5039		21.5	20.0	7.7	50.0
Bromochloromethane	Ave	0.1947	0.2111		21.7	20.0	8.4	50.0
Cyclohexane	Ave	0.5376	0.4432		16.5	20.0	-17.6	50.0
Chloroform	Ave	0.5958	0.6626		22.2	20.0	11.2	20.0
Carbon tetrachloride	Ave	0.4733	0.4583		19.4	20.0	-3.2	50.0
Tetrahydrofuran	LinF	0.2122	0.2281		23.3	20.0	16.4	50.0
Ethyl acetate	LinF	0.0421	0.0520		45.6	40.0	14.0	50.0
1,1,1-Trichloroethane	Ave	0.4823	0.4984		20.7	20.0	3.3	50.0
1,1-Dichloropropene	Ave	0.4069	0.4076		20.0	20.0	0.2	50.0
2-Butanone	Ave	0.0631	0.0752		23.8	20.0	19.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143372/2 Calibration Date: 01/16/2013 07:57

Instrument ID: VOAMS4 Calib Start Date: 01/10/2013 00:47

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/10/2013 02:41

Lab File ID: d28244.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzene	Ave	1.886	1.815		19.3	20.0	-3.7	50.0
Propionitrile	Ave	0.0639	0.0745		46.6	40.0	16.5	50.0
Tert-amyl methyl ether	Ave	0.9922	1.197		24.1	20.0	20.7	50.0
1,2-Dichloroethane	Ave	0.4395	0.4832		22.0	20.0	9.9	50.0
Isobutyl alcohol	Ave	0.0192	0.0207		3240	3000	8.0	50.0
Isopropyl acetate	LinF	0.8407	0.9223		49.6	40.0	24.0	50.0
Methylcyclohexane	Ave	0.4086	0.3018		14.8	20.0	-26.1	50.0
Trichloroethene	Ave	0.3402	0.3478		20.5	20.0	2.3	50.0
Dibromomethane	Ave	0.2215	0.2373		21.4	20.0	7.1	50.0
n-Butanol	Ave	0.0058	0.0064		1650	1500	10.2	50.0
1,2-Dichloropropane	Ave	0.3505	0.3803		21.7	20.0	8.5	20.0
Ethyl acrylate	Ave	0.4673	0.5236		22.4	20.0	12.0	50.0
Bromodichloromethane	Ave	0.4049	0.4354		21.5	20.0	7.5	50.0
Methyl methacrylate	LinF	0.0942	0.1133		20.9	20.0	4.7	50.0
1,4-Dioxane	Ave	0.0050	0.0049		146	150	-3.0	50.0
Propyl acetate	Ave	0.5061	0.5981		23.6	20.0	18.2	50.0
2-Chloroethyl vinyl ether	LinF	0.2107	0.2808		23.2	20.0	16.0	50.0
cis-1,3-Dichloropropene	Ave	0.6992	0.6988		20.0	20.0	-0.0	50.0
Toluene	Ave	1.866	1.759		18.9	20.0	-5.7	20.0
Epichlorohydrin	Ave	0.0507	0.0604		476	400	19.1	50.0
Tetrachloroethene	Ave	0.4820	0.3988		16.5	20.0	-17.3	50.0
4-Methyl-2-pentanone	Ave	0.5452	0.5995		22.0	20.0	9.9	50.0
trans-1,3-Dichloropropene	Ave	0.5984	0.6110		20.4	20.0	2.1	50.0
1,1,2-Trichloroethane	Ave	0.3475	0.3511		20.2	20.0	1.0	50.0
Ethyl methacrylate	LinF	0.4342	0.5273		21.1	20.0	5.7	50.0
Dibromochloromethane	LinF	0.4187	0.4133		16.6	20.0	-16.9	50.0
1,3-Dichloropropane	Ave	0.6890	0.6924		20.1	20.0	0.5	50.0
1,2-Dibromoethane	Ave	0.4083	0.4153		20.3	20.0	1.7	50.0
Butyl acetate	Ave	0.1272	0.1467		46.1	40.0	15.3	50.0
2-Hexanone	Ave	0.3730	0.4259		22.8	20.0	14.2	50.0
Chlorobenzene	Ave	1.204	1.146	0.3000	19.0	20.0	-4.8	50.0
Ethylbenzene	Ave	0.6235	0.5740		18.4	20.0	-7.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4375	0.4179		19.1	20.0	-4.5	50.0
m&p-Xylene	Ave	0.7628	0.7043		36.9	40.0	-7.7	50.0
o-Xylene	Ave	0.7812	0.7348		18.8	20.0	-5.9	50.0
Bromoform	LinF	0.2959	0.2856	0.1000	15.9	20.0	-20.5	50.0
Styrene	Ave	1.230	1.193		19.4	20.0	-3.0	50.0
Butyl acrylate	Ave	0.3300	0.3864		23.4	20.0	17.1	50.0
Isopropylbenzene	Ave	1.928	1.697		17.6	20.0	-12.0	50.0
Camphene, Total	LinF	0.1104	0.0749		15.3	20.0	-23.3	50.0
Amly acetate	Ave	1.487	1.720		23.1	20.0	15.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143372/2 Calibration Date: 01/16/2013 07:57

Instrument ID: VOAMS4 Calib Start Date: 01/10/2013 00:47

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 01/10/2013 02:41

Lab File ID: d28244.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Monobromobenzene	Ave	0.9672	0.8959		18.5	20.0	-7.4	50.0
N-Propylbenzene	Ave	3.931	3.345		17.0	20.0	-14.9	50.0
1,1,2,2-Tetrachloroethane	Ave	1.027	1.017	0.3000	19.8	20.0	-1.0	50.0
p-Ethyltoluene	Ave	1.260	1.358		21.6	20.0	7.8	50.0
2-Chlorotoluene	Ave	2.823	2.579		18.3	20.0	-8.6	50.0
1,2,3-Trichloropropane	Ave	0.2970	0.3017		20.3	20.0	1.6	50.0
1,3,5-Trimethylbenzene	Ave	2.827	2.468		17.5	20.0	-12.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2236	0.2498		22.3	20.0	11.7	50.0
4-Chlorotoluene	Ave	2.521	2.300		18.2	20.0	-8.8	50.0
tert-Butylbenzene	Ave	2.178	1.783		16.4	20.0	-18.1	50.0
Butyl Methacrylate	LinF	1.053	1.126		18.9	20.0	-5.5	50.0
1,2,4-Trimethylbenzene	Ave	2.921	2.651		18.2	20.0	-9.2	50.0
sec-Butylbenzene	Ave	3.098	2.494		16.1	20.0	-19.5	50.0
p-Isopropyltoluene	Ave	2.685	2.225		16.6	20.0	-17.2	50.0
1,3-Dichlorobenzene	Ave	1.719	1.554		18.1	20.0	-9.6	50.0
1,4-Dichlorobenzene	Ave	1.792	1.620		18.1	20.0	-9.6	50.0
2-Octanone	LinF	1.310	1.618		21.8	20.0	8.8	50.0
Indan	Ave	1.177	1.361		23.1	20.0	15.7	50.0
1,4-Diethylbenzene	Ave	0.6076	0.6117		20.1	20.0	0.7	50.0
Benzyl chloride	LinF	0.3517	0.3938		18.6	20.0	-7.1	50.0
n-Butylbenzene	Ave	2.610	2.349		18.0	20.0	-10.0	50.0
1,2-Dichlorobenzene	Ave	1.733	1.602		18.5	20.0	-7.5	50.0
1,2,4,5-Tetramethylbenzene	Ave	0.9658	1.075		22.3	20.0	11.3	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.1648	0.1643		17.3	20.0	-13.7	50.0
Hexachlorobutadiene	Ave	0.3935	0.2907		14.8	20.0	-26.1	50.0
1,2,4-Trichlorobenzene	Ave	1.042	0.9250		17.7	20.0	-11.3	50.0
Camphor	LinF	0.1112	0.1249		87.0	100	-13.0	50.0
Naphthalene	Ave	2.620	2.563		19.6	20.0	-2.1	50.0
1,2,3-Trichlorobenzene	Ave	0.9028	0.8101		17.9	20.0	-10.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2770	0.3077		55.6	50.0	11.1	50.0
Toluene-d8 (Surr)	Ave	1.115	1.090		48.9	50.0	-2.3	50.0
Bromofluorobenzene	Ave	0.8200	0.7920		48.3	50.0	-3.4	50.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 143598

SDG No.:

Instrument ID: BNAMS10 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2013 12:37 Calibration End Date: 01/16/2013 14:56 Calibration ID: 19807

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-143598/7	p33795.d
Level 2	IC 460-143598/6	p33794.d
Level 3	IC 460-143598/5	p33793.d
Level 4	ICIS 460-143598/2	p33790.d
Level 5	IC 460-143598/4	p33792.d
Level 6	IC 460-143598/3	p33791.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2126	+++++	Ave		0.2126						15.0			
1,4-Dioxane	0.8519 0.7609	0.8534	0.7832	0.8085	0.7943	Ave		0.8087				4.6		15.0			
N-Nitrosodimethylamine	1.1861 1.0268	1.1606	1.0661	1.0636	0.9972	Ave		1.0834				6.9		15.0			
Pyridine	2.1293 1.7843	2.1115	1.9455	1.8672	1.7655	Ave		1.9339				8.2		15.0			
Benzaldehyde	1.2128 0.1595	1.1321	0.8554	0.4796	0.2706	Ave		0.6850				65.2	*	15.0			
Phenol	2.1685 1.6042	2.1008	1.8669	1.5864	1.4812	QuaF		0.6393	-0.002						0.9962		0.9900
Aniline	2.5131 2.0164	2.4190	2.0891	1.8421	1.6877	QuaF		0.6001	-0.016						0.9940		0.9900
Bis(2-chloroethyl)ether	1.7844 1.2066	1.6636	1.4971	1.3637	1.5829	Ave		1.5164				13.8		15.0			
2-Chlorophenol	1.6579 1.2310	1.6134	1.5231	1.3032	1.2204	Ave		1.4248				13.8		15.0			
Decane	1.6498 1.2955	1.5705	1.6065	1.4698	1.3834	Ave		1.4959				9.2		15.0			
1,3-Dichlorobenzene	1.8808 1.3910	1.8178	1.6576	1.5298	1.4950	Ave		1.6287				11.8		15.0			
1,4-Dichlorobenzene	1.8591 1.3435	1.8092	1.6680	1.5040	1.4098	Ave		1.5989				13.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49385-1 Analy Batch No.: 143891

SDG No.:

Instrument ID: BNAMS11 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/11/2013 13:36 Calibration End Date: 01/11/2013 15:48 Calibration ID: 19847

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-143891/7	z16016.d
Level 2	IC 460-143891/6	z16015.d
Level 3	IC 460-143891/5	z16014.d
Level 4	ICIS 460-143891/2	z16011.d
Level 5	IC 460-143891/4	z16013.d
Level 6	IC 460-143891/3	z16012.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	0	0.2096	+++++	Ave		0.2096						15.0			
1,4-Dioxane	0.5758 0.5781	0.5725	0.5520	0.5537	0.5688	Ave		0.5668				2.0		15.0			
N-Nitrosodimethylamine	0.7845 0.7774	0.7698	0.7637	0.7806	0.7782	Ave		0.7757				1.0		15.0			
Pyridine	1.4498 1.3668	1.4214	1.4084	1.3855	1.3677	Ave		1.3999				2.3		15.0			
Benzaldehyde	0.9343 0.1447	0.7714	0.6163	0.4282	0.2557	Ave		0.5251				58.0	*	15.0			
Phenol	1.8042 1.3394	1.6528	1.6948	1.6266	1.4855	Ave		1.6005				10.3		30.0			
Aniline	2.1282 +++++	2.0183	1.9770	1.9688	1.7092	Ave		1.9603				7.9		15.0			
Bis(2-chloroethyl)ether	1.5863 1.9528	1.3573	1.3574	1.3314	1.4081	QuaF		0.8608	-0.059						0.9993		
2-Chlorophenol	1.5569 1.2531	1.4393	1.4772	1.4223	1.2673	Ave		1.4027				8.5		15.0			
1,3-Dichlorobenzene	1.7469 1.5414	1.6807	1.6759	1.6100	1.5660	Ave		1.6368				4.8		15.0			
1,4-Dichlorobenzene	1.7305 1.5296	1.6529	1.6460	1.5965	1.5549	Ave		1.6184				4.5		30.0			
Benzyl alcohol	0.8876 0.6234	0.8459	0.8527	0.8630	0.7980	Ave		0.8118				11.9		15.0			
1,2-Dichlorobenzene	1.6254 1.3991	1.5732	1.5373	1.4957	1.4401	Ave		1.5118				5.6		15.0			
2-Methylphenol	1.2946 1.0152	1.1840	1.1984	1.1671	1.0276	Ave		1.1478				9.4		15.0			
2,2'-oxybis[1-chloropropane]	1.3063 0.9355	1.2385	1.2066	1.1325	0.9902	Ave		1.1349				12.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143599/2 Calibration Date: 01/17/2013 03:46

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p33819.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8087	0.7013		43400	50000	-13.3	20.0
N-Nitrosodimethylamine	Ave	1.083	1.047		48300	50000	-3.3	20.0
Pyridine	Ave	1.934	1.843		47600	50000	-4.7	20.0
Benzaldehyde	Ave	0.6850	0.6499		47400	50000	-5.1	20.0
Aniline	QuaF	2.095	1.931		54200	50000	8.4	20.0
Phenol	QuaF	1.801	1.645		52300	50000	4.6	20.0
Bis(2-chloroethyl)ether	Ave	1.516	1.423		46900	50000	-6.1	20.0
2-Chlorophenol	Ave	1.425	1.407		49400	50000	-1.3	20.0
Decane	Ave	1.496	1.440		48100	50000	-3.7	20.0
1,3-Dichlorobenzene	Ave	1.629	1.515		46500	50000	-7.0	20.0
1,4-Dichlorobenzene	Ave	1.599	1.422		44500	50000	-11.1	20.0
Benzyl alcohol	Ave	0.8524	0.9025		52900	50000	5.9	20.0
1,2-Dichlorobenzene	QuaF	1.480	1.359		50500	50000	1.1	20.0
2-Methylphenol	QuaF	1.172	1.186		58800	50000	17.5	20.0
2,2'-oxybis[1-chloropropane]	QuaF	1.513	1.628		59700	50000	19.4	20.0
Acetophenone	QuaF	1.811	1.649		53200	50000	6.4	20.0
N-Nitrosodi-n-propylamine	QuaF	0.9048	0.9397	0.0500	59100	50000	18.3	20.0
3 & 4 Methylphenol	QuaF	1.188	1.125		58300	50000	16.7	20.0
4-Methylphenol	QuaF	1.183	1.109		57800	50000	15.7	20.0
Hexachloroethane	QuaF	0.7078	0.6582		51500	50000	3.0	20.0
n,n'-Dimethylaniline	QuaF	1.717	1.562		51000	50000	1.9	20.0
Nitrobenzene	QuaF	0.6174	0.5649		49400	50000	-1.1	20.0
Isophorone	Ave	0.6797	0.7562		55600	50000	11.3	20.0
2-Nitrophenol	Ave	0.2111	0.2325		55100	50000	10.1	20.0
2,4-Dimethylphenol	Ave	0.3248	0.3357		51700	50000	3.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4515	0.4701		52100	50000	4.1	20.0
Benzoic acid	QuaF	0.1394	0.1617		47700	50000	-4.7	20.0
2,4-Dichlorophenol	QuaF	0.2859	0.2915		56000	50000	12.0	20.0
1,2,4-Trichlorobenzene	QuaF	0.3620	0.3365		49300	50000	-1.5	20.0
Naphthalene	QuaF	1.038	0.9079		48200	50000	-3.7	20.0
4-Chloroaniline	QuaF	0.4115	0.4110		55600	50000	11.2	20.0
Hexachlorobutadiene	QuaF	0.2263	0.1946		44400	50000	-11.2	20.0
Caprolactam	Ave	0.0912	0.1019		55800	50000	11.6	20.0
4-Chloro-3-methylphenol	Ave	0.3063	0.3080		50300	50000	0.5	20.0
2-Methylnaphthalene	QuaF	0.6573	0.6067		49600	50000	-0.8	20.0
1-Methylnaphthalene	QuaF	0.6754	0.6208		49900	50000	-0.3	20.0
Hexachlorocyclopentadiene	Ave	0.4102	0.3262	0.0500	39800	50000	-20.5*	20.0
1,2,4,5-Tetrachlorobenzene	QuaF	0.6107	0.5037		43000	50000	-13.9	20.0
2-tertbutyl-4-methylphenol	QuaF	0.4560	0.4181		49500	50000	-1.0	20.0
2,4,6-Trichlorophenol	Ave	0.4262	0.3958		46400	50000	-7.2	20.0
2,4,5-Trichlorophenol	Ave	0.4091	0.3980		48600	50000	-2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143599/2 Calibration Date: 01/17/2013 03:46

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p33819.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	QuaF	1.580	1.305		46100	50000	-7.9	20.0
2-Chloronaphthalene	QuaF	1.226	1.057		46400	50000	-7.3	20.0
Diphenyl ether	Ave	0.8341	0.7608		45600	50000	-8.8	20.0
2-Nitroaniline	Ave	0.4825	0.4728		49000	50000	-2.0	20.0
Dimethylnaphthalene, total	Ave	1.032	0.9159		44400	50000	-11.3	20.0
Dimethyl phthalate	QuaF	1.164	1.072		48600	50000	-2.7	20.0
Coumarin	Ave	0.1790	0.1915		53500	50000	7.0	20.0
2,6-Dinitrotoluene	Ave	0.2831	0.2807		49600	50000	-0.9	20.0
Acenaphthylene	QuaF	1.781	1.570		47500	50000	-5.1	20.0
3-Nitroaniline	Ave	0.2786	0.2921		52400	50000	4.8	20.0
3,5-di-tert-butyl-4-hydroxytol	QuaF	0.9823	0.8081		43300	50000	-13.3	20.0
Acenaphthene	QuaF	1.001	0.8228		42900	50000	-14.1	20.0
2,4-Dinitrophenol	QuaF	0.1198	0.1344	0.0500	51100	50000	2.1	20.0
4-Nitrophenol	Ave	0.2181	0.2184	0.0500	50100	50000	0.1	20.0
2,4-Dinitrotoluene	Ave	0.3110	0.3108		50000	50000	-0.0	20.0
Dibenzofuran	QuaF	1.418	1.287		47200	50000	-5.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2632	0.2638		50100	50000	0.2	20.0
Diethyl phthalate	Ave	1.120	1.068		47700	50000	-4.7	20.0
Fluorene	QuaF	1.096	0.9559		43700	50000	-12.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.5252	0.4591		43700	50000	-12.6	20.0
4-Nitroaniline	Ave	0.2536	0.2583		50900	50000	1.9	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1313	0.1409		53700	50000	7.3	20.0
N-Nitrosodiphenylamine	Ave	0.5623	0.5869		52200	50000	4.4	20.0
1,2-Diphenylhydrazine	Ave	1.226	1.167		47600	50000	-4.8	20.0
4-Bromophenyl phenyl ether	Ave	0.2394	0.2344		49000	50000	-2.1	20.0
Hexachlorobenzene	Ave	0.2690	0.2517		46800	50000	-6.4	20.0
Atrazine	Ave	0.2036	0.2018		49600	50000	-0.9	20.0
Pentachlorophenol	Ave	0.1348	0.1427		52900	50000	5.8	20.0
Pentachloronitrobenzene	Ave	0.1099	0.0968		44000	50000	-11.9	
n-Octadecane	Ave	0.6108	0.5941		48600	50000	-2.7	20.0
Phenanthrene	QuaF	1.114	1.026		49000	50000	-2.1	20.0
Anthracene	QuaF	1.127	1.043		48800	50000	-2.5	20.0
Carbazole	Ave	0.9015	0.8487		47100	50000	-5.9	20.0
Di-n-butyl phthalate	Ave	1.190	1.082		45500	50000	-9.1	20.0
Fluoranthene	Ave	0.9547	0.8981		47000	50000	-5.9	20.0
Benzidine	Ave	0.2205	0.1160		26300	50000	-47.4*	20.0
Pyrene	QuaF	1.578	1.492		51700	50000	3.4	20.0
Butyl benzyl phthalate	Ave	0.7225	0.7091		49100	50000	-1.9	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2126	0.2458		578	500	15.6	20.0
Carbamazepine	Ave	0.5249	0.5217		49700	50000	-0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-143599/2 Calibration Date: 01/17/2013 03:46

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p33819.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3645	0.3472		47600	50000	-4.8	20.0
Benzo[a]anthracene	Ave	1.177	1.156		49100	50000	-1.8	20.0
Chrysene	Ave	1.095	1.067		48700	50000	-2.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9183	0.8885		48400	50000	-3.2	20.0
Di-n-octyl phthalate	Ave	1.553	1.619		52100	50000	4.2	20.0
Benzo[b]fluoranthene	Ave	1.100	1.158		52600	50000	5.3	20.0
Benzo[k]fluoranthene	Ave	1.130	1.203		53300	50000	6.5	20.0
Benzo[a]pyrene	Ave	0.9000	0.9653		53600	50000	7.3	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.8187	0.8130		43200	50000	-13.5	20.0
Dibenz(a,h)anthracene	QuaF	0.8117	0.8221		45300	50000	-9.4	20.0
Benzo[g,h,i]perylene	Ave	0.8793	0.8210		46700	50000	-6.6	20.0
2-Fluorophenol	Ave	1.497	1.537		51300	50000	2.7	20.0
Phenol-d5	QuaF	1.662	1.582		53600	50000	7.1	20.0
Nitrobenzene-d5	Ave	0.4623	0.4849		52400	50000	4.9	20.0
2-Fluorobiphenyl	QuaF	1.412	1.205		45700	50000	-8.5	20.0
2,4,6-Tribromophenol	Ave	0.1678	0.1639		48900	50000	-2.3	20.0
Terphenyl-d14	Ave	1.089	1.049		48100	50000	-3.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-144043/2 Calibration Date: 01/20/2013 17:26

Instrument ID: BNAMS11 Calib Start Date: 01/11/2013 13:36

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/11/2013 15:48

Lab File ID: z16245.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5668	0.5798		51100	50000	2.3	20.0
N-Nitrosodimethylamine	Ave	0.7757	0.7871		50700	50000	1.5	20.0
Pyridine	Ave	1.400	1.378		49200	50000	-1.6	20.0
Benzaldehyde	Ave	0.5251	0.5587		53200	50000	6.4	20.0
Phenol	Ave	1.601	1.723		53800	50000	7.7	20.0
Aniline	Ave	1.960	1.941		49500	50000	-1.0	20.0
Bis(2-chloroethyl)ether	QuaF	1.499	1.347		51200	50000	2.5	20.0
2-Chlorophenol	Ave	1.403	1.413		50400	50000	0.8	20.0
1,3-Dichlorobenzene	Ave	1.637	1.607		49100	50000	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.618	1.606		49600	50000	-0.8	20.0
Benzyl alcohol	Ave	0.8118	0.7970		49100	50000	-1.8	20.0
1,2-Dichlorobenzene	Ave	1.512	1.508		49900	50000	-0.2	20.0
2-Methylphenol	Ave	1.148	1.170		51000	50000	2.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.135	1.191		52500	50000	4.9	20.0
3 & 4 Methylphenol	Ave	1.192	1.207		50700	50000	1.3	20.0
4-Methylphenol	Ave	1.192	1.207		50700	50000	1.3	20.0
Acetophenone	Ave	1.613	1.668		51700	50000	3.4	20.0
N-Nitrosodi-n-propylamine	Ave	0.7774	0.7037	0.0500	45300	50000	-9.5	20.0
Hexachloroethane	Ave	0.5867	0.6024		51300	50000	2.7	20.0
n,n'-Dimethylaniline	Ave	1.856	1.953		52600	50000	5.2	20.0
Nitrobenzene	Ave	0.4706	0.4771		50700	50000	1.4	20.0
Isophorone	Ave	0.5825	0.5631		48300	50000	-3.3	20.0
2-Nitrophenol	Ave	0.2007	0.1916		47700	50000	-4.5	20.0
2,4-Dimethylphenol	Ave	0.3149	0.3032		48200	50000	-3.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3776	0.3705		49100	50000	-1.9	20.0
Benzoic acid	LinF	0.1456	0.1406		44300	50000	-11.4	20.0
2,4-Dichlorophenol	Ave	0.2875	0.2741		47700	50000	-4.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3387	0.3162		46700	50000	-6.7	20.0
Naphthalene	Ave	1.046	1.017		48600	50000	-2.8	20.0
4-Chloroaniline	Ave	0.3783	0.3624		47900	50000	-4.2	20.0
Hexachlorobutadiene	Ave	0.1980	0.1759		44400	50000	-11.1	20.0
Caprolactam	Ave	0.0848	0.0788		46400	50000	-7.1	20.0
4-Chloro-3-methylphenol	Ave	0.2694	0.2694		50000	50000	-0.0	20.0
2-Methylnaphthalene	Ave	0.6527	0.6343		48600	50000	-2.8	20.0
Hexachlorocyclopentadiene	Ave	0.3734	0.3418	0.0500	45800	50000	-8.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6526	0.6302		48300	50000	-3.4	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.3815		48200	50000	-3.6	20.0
2,4,5-Trichlorophenol	Ave	0.3980	0.3878		48700	50000	-2.6	20.0
Diphenyl	Ave	1.576	1.582		50200	50000	0.4	20.0
2-Chloronaphthalene	Ave	1.186	1.167		49200	50000	-1.6	20.0
Diphenyl ether	Ave	0.8518	0.8363		49100	50000	-1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-144043/2 Calibration Date: 01/20/2013 17:26

Instrument ID: BNAMS11 Calib Start Date: 01/11/2013 13:36

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/11/2013 15:48

Lab File ID: z16245.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Nitroaniline	QuaF	0.3114	0.3228		52700	50000	5.5	20.0
1,3-Dimethylnaphthalene	Ave	1.741	1.781		51200	50000	2.3	20.0
Dimethyl phthalate	Ave	1.184	1.158		48900	50000	-2.3	20.0
2,6-Dinitrotoluene	Ave	0.2726	0.2725		50000	50000	-0.0	20.0
Acenaphthylene	Ave	1.789	1.767		49400	50000	-1.2	20.0
3-Nitroaniline	Ave	0.2700	0.2619		48500	50000	-3.0	20.0
Acenaphthene	Ave	1.134	1.075		47400	50000	-5.2	20.0
2,4-Dinitrophenol	QuaF	0.1151	0.0986	0.0500	39900	50000	-20.2*	20.0
4-Nitrophenol	Ave	0.1651	0.1642	0.0500	49700	50000	-0.5	20.0
2,4-Dinitrotoluene	Ave	0.3414	0.3208		47000	50000	-6.0	20.0
Dibenzofuran	Ave	1.558	1.493		47900	50000	-4.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2759	0.2417		43800	50000	-12.4	20.0
Diethyl phthalate	Ave	1.092	1.061		48600	50000	-2.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.6053	0.5647		46600	50000	-6.7	20.0
Fluorene	Ave	1.227	1.200		48900	50000	-2.2	20.0
4-Nitroaniline	Ave	0.2493	0.2341		47000	50000	-6.1	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1294	0.1133		43700	50000	-12.5	20.0
N-Nitrosodiphenylamine	Ave	0.6092	0.6248		51300	50000	2.6	20.0
1,2-Diphenylhydrazine	Ave	0.9308	1.021		54900	50000	9.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2409	0.2481		51500	50000	3.0	20.0
Hexachlorobenzene	Ave	0.2785	0.2639		47400	50000	-5.2	20.0
Atrazine	Ave	0.2121	0.2000		47100	50000	-5.7	20.0
Pentachlorophenol	Ave	0.1507	0.1224		40600	50000	-18.8	20.0
Phenanthrene	Ave	1.134	1.121		49400	50000	-1.2	20.0
Anthracene	Ave	1.158	1.143		49400	50000	-1.3	20.0
Carbazole	Ave	0.9291	0.8979		48300	50000	-3.4	20.0
Di-n-butyl phthalate	Ave	1.128	1.138		50400	50000	0.8	20.0
Fluoranthene	Ave	1.023	0.9702		47400	50000	-5.2	20.0
Benzidine	Ave	0.1572	0.0994		31600	50000	-36.8*	20.0
Pyrene	Ave	1.747	1.676		48000	50000	-4.0	20.0
Butyl benzyl phthalate	Ave	0.6333	0.6512		51400	50000	2.8	20.0
2,3,7,8-TCDD (Screen)	Ave	0.1048	0.2164		516	500	106.4*	20.0
3,3'-Dichlorobenzidine	QuaF	0.3126	0.3079		52300	50000	4.6	20.0
Benzo[a]anthracene	Ave	1.175	1.159		49300	50000	-1.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8412	0.8547		50800	50000	1.6	20.0
Chrysene	Ave	1.100	1.090		49500	50000	-1.0	20.0
Di-n-octyl phthalate	Ave	1.661	1.661		50000	50000	-0.0	20.0
Benzo[b]fluoranthene	Ave	1.239	1.264		51000	50000	2.0	20.0
Benzo[k]fluoranthene	Ave	1.296	1.325		51100	50000	2.2	20.0
Benzo[a]pyrene	Ave	0.9482	1.016		53600	50000	7.2	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7578	0.8769		46300	50000	-7.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Lab Sample ID: CCVIS 460-144043/2 Calibration Date: 01/20/2013 17:26

Instrument ID: BNAMS11 Calib Start Date: 01/11/2013 13:36

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/11/2013 15:48

Lab File ID: z16245.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	LinF	0.7894	0.8856		46100	50000	-7.8	20.0
Benzo[g,h,i]perylene	LinF	0.8013	0.8745		46600	50000	-6.8	20.0
2-Fluorophenol	Ave	1.377	1.277		46400	50000	-7.2	20.0
Phenol-d5	Ave	1.559	1.554		49900	50000	-0.3	20.0
Nitrobenzene-d5	Ave	0.3601	0.3763		52300	50000	4.5	20.0
2-Fluorobiphenyl	Ave	1.416	1.393		49200	50000	-1.6	20.0
2,4,6-Tribromophenol	Ave	0.1757	0.1666		47400	50000	-5.2	20.0
Terphenyl-d14	Ave	1.251	1.176		47000	50000	-6.0	20.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33820.d

Lab ID: LCS 460-143055/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Phenol	6670	4760	71	54-115	
2-Chlorophenol	6670	4470	67	56-110	
2-Methylphenol	6670	5710	86	54-117	
4-Methylphenol	6670	5740	86	47-103	
Benzaldehyde	3330	1040	31	10-160	
Acetophenone	3330	2920	88	40-95	
Bis(2-chloroethyl)ether	3330	2910	87	44-101	
2,2'-oxybis[1-chloropropane]	3330	3130	94	45-102	
N-Nitrosodi-n-propylamine	3330	3650	109	42-107	*
Nitrobenzene	3330	2510	75	42-106	
Hexachloroethane	3330	2580	77	45-90	
Isophorone	3330	2820	85	48-97	
2-Nitrophenol	6670	5170	78	55-101	
2,4-Dimethylphenol	6670	4890	73	56-112	
2,4-Dichlorophenol	6670	5390	81	58-115	
Bis(2-chloroethoxy)methane	3330	2920	88	51-100	
Naphthalene	3330	2470	74	53-94	
4-Chloroaniline	3330	1500	45	10-96	
Hexachlorobutadiene	3330	2210	66	45-98	
Caprolactam	3330	3140	94	10-127	
4-Chloro-3-methylphenol	6670	5120	77	55-117	
2-Methylnaphthalene	3330	2700	81	51-98	
Hexachlorobenzene	3330	2650	79	43-104	
Hexachlorocyclopentadiene	3330	2030	61	24-98	
2,4,6-Trichlorophenol	6670	4500	67	53-118	
2,4,5-Trichlorophenol	6670	4490	67	50-115	
Diphenyl	3330	2460	74	50-105	
2-Chloronaphthalene	3330	2400	72	51-102	
2-Nitroaniline	3330	2590	78	51-109	
2,6-Dinitrotoluene	3330	2780	83	51-115	
Dimethyl phthalate	3330	2830	85	52-112	
Acenaphthylene	3330	2570	77	51-103	
3-Nitroaniline	3330	1990	60	32-104	
Acenaphthene	3330	2860	86	46-100	
4-Nitrophenol	6670	6210	93	45-114	
2,4-Dinitrophenol	6670	4450	67	10-129	
Dibenzofuran	3330	2510	75	52-106	
Diethyl phthalate	3330	2730	82	52-114	
Fluorene	3330	2360	71	51-108	
Fluoranthene	3330	2680	80	49-108	
Di-n-butyl phthalate	3330	2610	78	50-108	
2,4-Dinitrotoluene	3330	2830	85	53-110	

ND.

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33820.d

Lab ID: LCS 460-143055/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	3330	2420	73	50-106	
4-Nitroaniline	3330	2810	84	45-106	
4,6-Dinitro-2-methylphenol	6670	5420	81	10-110	
4-Bromophenyl phenyl ether	3330	2750	82	44-102	
Atrazine	3330	1400	42	30-100	
Anthracene	3330	2630	79	50-107	
Carbazole	3330	2720	82	49-104	
Phenanthrene	3330	2640	79	48-108	
Pentachlorophenol	6670	5530	83	19-113	
Pyrene	3330	2840	85	49-116	
Chrysene	3330	2640	79	45-114	
Benzo[k]fluoranthene	3330	2620	79	35-115	
Benzo[g,h,i]perylene	3330	2470	74	43-106	
Benzo[b]fluoranthene	3330	2810	84	33-96	
Benzo[a]pyrene	3330	2830	85	36-89	
Benzo[a]anthracene	3330	2650	80	46-112	
N-Nitrosodiphenylamine	3330	3060	92	49-106	
Butyl benzyl phthalate	3330	2730	82	49-117	
Bis(2-ethylhexyl) phthalate	3330	2640	79	49-119	
Di-n-octyl phthalate	3330	2830	85	40-106	
Indeno[1,2,3-cd]pyrene	3330	2340	70	43-109	
Dibenz(a,h)anthracene	3330	2370	71	43-107	
3,3'-Dichlorobenzidine	3330	1860	56	24-105	
1,2,4,5-Tetrachlorobenzene	3330	2090	63	70-130	*
2,3,4,6-Tetrachlorophenol	3330	2700	81	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Waste Level: Low Lab File ID: z16258.d

Lab ID: LCS 460-143852/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Phenol	500000	455000	91	70-130	
2-Chlorophenol	500000	457000	91	70-130	
2-Methylphenol	500000	461000	92	70-130	
4-Methylphenol	500000	447000	89	70-130	
Benzaldehyde	250000	148000	59	70-130	*
Acetophenone	250000	247000	99	70-130	
Bis(2-chloroethyl)ether	250000	249000	100	70-130	
2,2'-oxybis[1-chloropropane]	250000	251000	101	70-130	
N-Nitrosodi-n-propylamine	250000	250000	100	70-130	
Nitrobenzene	250000	237000	95	70-130	
Hexachloroethane	250000	238000	95	70-130	
Isophorone	250000	219000	87	70-130	
2-Nitrophenol	500000	426000	85	70-130	
2,4-Dimethylphenol	500000	433000	87	70-130	
2,4-Dichlorophenol	500000	435000	87	70-130	
Bis(2-chloroethoxy)methane	250000	233000	93	70-130	
Naphthalene	250000	226000	90	70-130	
4-Chloroaniline	250000	235000	94	70-130	
Hexachlorobutadiene	250000	204000	82	70-130	
Caprolactam	250000	224000	90	70-130	
4-Chloro-3-methylphenol	500000	460000	92	70-130	
2-Methylnaphthalene	250000	230000	92	70-130	
Hexachlorobenzene	250000	213000	85	70-130	
Hexachlorocyclopentadiene	250000	185000	74	70-130	
2,4,6-Trichlorophenol	500000	431000	86	70-130	
2,4,5-Trichlorophenol	500000	436000	87	70-130	
Diphenyl	250000	231000	93	70-130	
2-Chloronaphthalene	250000	229000	92	70-130	
2-Nitroaniline	250000	231000	92	70-130	
2,6-Dinitrotoluene	250000	241000	97	70-130	
Dimethyl phthalate	250000	232000	93	70-130	
Acenaphthylene	250000	235000	94	70-130	
3-Nitroaniline	250000	255000	102	70-130	
Acenaphthene	250000	227000	91	70-130	
4-Nitrophenol	500000	527000	105	70-130	
2,4-Dinitrophenol	500000	458000	92	70-130	
Dibenzofuran	250000	227000	91	70-130	
Diethyl phthalate	250000	242000	97	70-130	
Fluorene	250000	235000	94	70-130	
Fluoranthene	250000	238000	95	70-130	
Di-n-butyl phthalate	250000	245000	98	70-130	
2,4-Dinitrotoluene	250000	242000	97	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Waste Level: Low Lab File ID: z16258.d

Lab ID: LCS 460-143852/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	250000	226000	90	70-130	
4-Nitroaniline	250000	260000	104	70-130	
4,6-Dinitro-2-methylphenol	500000	449000	90	70-130	
4-Bromophenyl phenyl ether	250000	233000	93	70-130	
Atrazine	250000	215000	86	70-130	
Anthracene	250000	231000	92	70-130	
Carbazole	250000	243000	97	70-130	
Phenanthrene	250000	234000	94	70-130	
Pentachlorophenol	500000	435000	87	70-130	
Pyrene	250000	220000	88	70-130	
Chrysene	250000	232000	93	70-130	
Benzo[k]fluoranthene	250000	231000	92	70-130	
Benzo[g,h,i]perylene	250000	192000	77	70-130	
Benzo[b]fluoranthene	250000	230000	92	70-130	
Benzo[a]pyrene	250000	238000	95	70-130	
Benzo[a]anthracene	250000	224000	90	70-130	
N-Nitrosodiphenylamine	250000	235000	94	70-130	
Butyl benzyl phthalate	250000	230000	92	70-130	
Bis(2-ethylhexyl) phthalate	250000	230000	92	70-130	
Di-n-octyl phthalate	250000	233000	93	70-130	
Indeno[1,2,3-cd]pyrene	250000	176000	70	70-130	
Dibenz(a,h)anthracene	250000	191000	76	70-130	
3,3'-Dichlorobenzidine	250000	269000	107	70-130	
1,2,4,5-Tetrachlorobenzene	1000000	835000	83	70-130	
2,3,4,6-Tetrachlorophenol	1000000	924000	92	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Waste Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
SB-27 (80-85)	460-49385-3	0	D	0	D	0	D	0	D	0	D	0	D
	MB 460-143852/1-A	102		112		114		106		110		102	
	LCS 460-143852/2-A	83		89		93		89		98		84	
	460-49550-B-1-E MS	101		105		108		101		84		74	
	460-49550-B-1-F MSD	100		105		110		103		89		76	

	QC LIMITS
2FP = 2-Fluorophenol	70-130
PHL = Phenol-d5	70-130
NBZ = Nitrobenzene-d5	70-130
FBP = 2-Fluorobiphenyl	70-130
TBP = 2,4,6-Tribromophenol	70-130
TPH = Terphenyl-d14	70-130

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33835.d

Lab ID: 460-49385-2 MS SB-28(65-66) Client ID: SB-28 (65-66) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Phenol	7350	49 U	6430	87	54-115	
2-Chlorophenol	7350	48 U	5930	81	56-110	
2-Methylphenol	7350	62 U	7580	103	54-117	
4-Methylphenol	7350	72 U	7540	103	47-103	
Benzaldehyde	3680	43 U	1120	30	10-160	
Acetophenone	3680	56 U	3780	103	40-95	F
Bis(2-chloroethyl)ether	3680	5.0 U	3530	96	44-101	
2,2'-oxybis[1-chloropropane]	3680	40 U	3730	101	45-102	
N-Nitrosodi-n-propylamine	3680	6.1 U	2850	78	42-107	
Nitrobenzene	3680	5.2 U	3150	86	42-106	
Hexachloroethane	3680	4.1 U	2890	79	45-90	
Isophorone	3680	44 U	2540	69	48-97	
2-Nitrophenol	7350	41 U	6220	85	55-101	
2,4-Dimethylphenol	7350	90 U	6080	83	56-112	
2,4-Dichlorophenol	7350	53 U	7070	96	58-115	
Bis(2-chloroethoxy)methane	3680	47 U	3610	98	51-100	
Naphthalene	3680	42 U	3130	85	53-94	
4-Chloroaniline	3680	97 U	1840	50	10-96	
Hexachlorobutadiene	3680	8.9 U	2650	72	45-98	
Caprolactam	3680	84 U	3720	101	10-127	
4-Chloro-3-methylphenol	7350	55 U	6700	91	55-117	
2-Methylnaphthalene	3680	47 U	3410	93	51-98	
Hexachlorobenzene	3680	5.0 U	3420	93	43-104	
Hexachlorocyclopentadiene	3680	43 U	2320	63	24-98	
2,4,6-Trichlorophenol	7350	43 U	6010	82	53-118	
2,4,5-Trichlorophenol	7350	47 U	5400	73	50-115	
Diphenyl	3680	49 U	3210	87	50-105	
2-Chloronaphthalene	3680	41 U	3100	84	51-102	
2-Nitroaniline	3680	150 U	3460	94	51-109	
2,6-Dinitrotoluene	3680	11 U	3610	98	51-115	
Dimethyl phthalate	3680	43 U	3790	103	52-112	
Acenaphthylene	3680	43 U	3450	94	51-103	
3-Nitroaniline	3680	130 U	2770	75	32-104	
Acenaphthene	3680	53 U	3720	101	46-100	F
4-Nitrophenol	7350	230 U	7870	107	45-114	
2,4-Dinitrophenol	7350	210 U	1220	17	10-129	
Dibenzofuran	3680	43 U	3320	90	52-106	
Diethyl phthalate	3680	43 U	3570	97	52-114	
Fluorene	3680	47 U	3230	88	51-108	
Fluoranthene	3680	49 U	3420	93	49-108	
Di-n-butyl phthalate	3680	45 U	3380	92	50-108	
2,4-Dinitrotoluene	3680	12 U	3640	99	53-110	

ND

ND

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33835.d

Lab ID: 460-49385-2 MS Client ID: SB-28 (65-66) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#	
4-Chlorophenyl phenyl ether	3680	43 U	3210	87	50-106		
4-Nitroaniline	3680	110 U	3410	93	45-106		
4,6-Dinitro-2-methylphenol	7350	99 U	2950	40	10-110		
4-Bromophenyl phenyl ether	3680	36 U	3610	98	44-102		
Atrazine	3680	56 U	1820	49	30-100		
Anthracene	3680	44 U	3500	95	50-107		
Carbazole	3680	43 U	3510	96	49-104		
Phenanthrene	3680	46 U	3630	99	48-108		
Pentachlorophenol	7350	110 U	5480	75	19-113		
Pyrene	3680	31 U	3830	104	49-116		
Chrysene	3680	43 U	3540	96	45-114		
Benzo[k]fluoranthene	3680	2.8 U	3570	97	35-115		
Benzo[g,h,i]perylene	3680	27 U	3660	100	43-106		
Benzo[b]fluoranthene	3680	2.3 U	3770	103	33-96	F	ND
Benzo[a]pyrene	3680	2.6 U	3850	105	36-89	F	ND
Benzo[a]anthracene	3680	2.5 U	3550	97	46-112		
N-Nitrosodiphenylamine	3680	36 U	3970	108	49-106	F	ND
Butyl benzyl phthalate	3680	33 U	3710	101	49-117		
Bis(2-ethylhexyl) phthalate	3680	120 U	3580	98	49-119		
Di-n-octyl phthalate	3680	23 U	3910	106	40-106		
Indeno[1,2,3-cd]pyrene	3680	6.8 U	3450	94	43-109		
Dibenz(a,h)anthracene	3680	4.6 U	3570	97	43-107		
3,3'-Dichlorobenzidine	3680	130 U	2820	77	24-105		
1,2,4,5-Tetrachlorobenzene	3680	49 U	2740	74	70-130		
2,3,4,6-Tetrachlorophenol	3680	47 U	3180	86	70-130		

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33836.d

Lab ID: 460-49385-2 MSD Client ID: SB-28 (65-66) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	7350	6470	88	1	30	54-115	
2-Chlorophenol	7350	5960	81	1	30	56-110	
2-Methylphenol	7350	7620	104	0	30	54-117	
4-Methylphenol	7350	7630	104	1	30	47-103	F
Benzaldehyde	3680	1130	31	1	30	10-160	
Acetophenone	3680	3820	104	1	30	40-95	F
Bis(2-chloroethyl)ether	3680	3470	94	2	30	44-101	
2,2'-oxybis[1-chloropropane]	3680	3800	103	2	30	45-102	F
N-Nitrosodi-n-propylamine	3680	2780	76	3	30	42-107	
Nitrobenzene	3680	3340	91	6	30	42-106	
Hexachloroethane	3680	2980	81	3	30	45-90	
Isophorone	3680	2420	66	5	30	48-97	
2-Nitrophenol	7350	6410	87	3	30	55-101	
2,4-Dimethylphenol	7350	6260	85	3	30	56-112	
2,4-Dichlorophenol	7350	7320	100	3	30	58-115	
Bis(2-chloroethoxy)methane	3680	3680	100	2	30	51-100	
Naphthalene	3680	3290	89	5	30	53-94	
4-Chloroaniline	3680	1810	49	2	30	10-96	
Hexachlorobutadiene	3680	2760	75	4	30	45-98	
Caprolactam	3680	3610	98	3	30	10-127	
4-Chloro-3-methylphenol	7350	6790	92	1	30	55-117	
2-Methylnaphthalene	3680	3460	94	2	30	51-98	
Hexachlorobenzene	3680	3520	96	3	30	43-104	
Hexachlorocyclopentadiene	3680	2330	63	1	30	24-98	
2,4,6-Trichlorophenol	7350	5810	79	4	30	53-118	
2,4,5-Trichlorophenol	7350	5830	79	8	30	50-115	
Diphenyl	3680	3380	92	5	30	50-105	
2-Chloronaphthalene	3680	3270	89	6	30	51-102	
2-Nitroaniline	3680	3480	95	1	30	51-109	
2,6-Dinitrotoluene	3680	3650	99	1	30	51-115	
Dimethyl phthalate	3680	3870	105	2	30	52-112	
Acenaphthylene	3680	3590	98	4	30	51-103	
3-Nitroaniline	3680	2840	77	3	30	32-104	
Acenaphthene	3680	3900	106	5	30	46-100	F
4-Nitrophenol	7350	7660	104	3	30	45-114	
2,4-Dinitrophenol	7350	982 J	13	22	30	10-129	
Dibenzofuran	3680	3430	93	3	30	52-106	
Diethyl phthalate	3680	3610	98	1	30	52-114	
Fluorene	3680	3350	91	4	30	51-108	
Fluoranthene	3680	3560	97	4	30	49-108	
Di-n-butyl phthalate	3680	3490	95	3	30	50-108	
2,4-Dinitrotoluene	3680	3710	101	2	30	53-110	

ND
ND
ND
ND

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49385-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p33836.d

Lab ID: 460-49385-2 MSD Client ID: SB-28 (65-66) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#	
4-Chlorophenyl phenyl ether	3680	3230	88	1	30	50-106		
4-Nitroaniline	3680	3440	93	1	30	45-106		
4,6-Dinitro-2-methylphenol	7350	2620	36	12	30	10-110		
4-Bromophenyl phenyl ether	3680	3720	101	3	30	44-102		
Atrazine	3680	1830	50	1	30	30-100		
Anthracene	3680	3680	100	5	30	50-107		
Carbazole	3680	3580	98	2	30	49-104		
Phenanthrene	3680	3750	102	3	30	48-108		
Pentachlorophenol	7350	5210	71	5	30	19-113		
Pyrene	3680	3840	104	0	30	49-116		
Chrysene	3680	3670	100	4	30	45-114		
Benzo[k]fluoranthene	3680	3700	101	3	30	35-115		
Benzo[g,h,i]perylene	3680	3870	105	6	30	43-106		
Benzo[b]fluoranthene	3680	3970	108	5	30	33-96	F	ND
Benzo[a]pyrene	3680	3990	109	4	30	36-89	F	ND
Benzo[a]anthracene	3680	3710	101	4	30	46-112		
N-Nitrosodiphenylamine	3680	4070	111	3	30	49-106	F	ND
Butyl benzyl phthalate	3680	3730	101	1	30	49-117		
Bis(2-ethylhexyl) phthalate	3680	3660	99	2	30	49-119		
Di-n-octyl phthalate	3680	4020	109	3	30	40-106	F	ND
Indeno[1,2,3-cd]pyrene	3680	3660	100	6	30	43-109		
Dibenz(a,h)anthracene	3680	3780	103	6	30	43-107		
3,3'-Dichlorobenzidine	3680	2940	80	4	30	24-105		
1,2,4,5-Tetrachlorobenzene	3680	2840	77	4	30	70-130		
2,3,4,6-Tetrachlorophenol	3680	3110	85	2	30	70-130		

Column to be used to flag recovery and RPD values

FORM III 8270C

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 460-49827-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-49827-1	SB-34 (35-36)	Solid	01/21/2013 1400	01/23/2013 1700
460-49827-2	SB-34 (97-98)	Solid	01/21/2013 1530	01/23/2013 1700
460-49827-3	DUPE-1-13	Solid	01/21/2013 0000	01/23/2013 1700
460-49827-4	SB-35 (35-36)	Solid	01/22/2013 1400	01/23/2013 1700
460-49827-4MS	SB-35 (35-36)	Solid	01/22/2013 1400	01/23/2013 1700
460-49827-4MSD	SB-35 (35-36)	Solid	01/22/2013 1400	01/23/2013 1700
460-49827-5	SB-35 (44-45)	Solid	01/22/2013 1500	01/23/2013 1700

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): JENNIFER PFEIFFER	Samplers Name (Printed): S. WRIGHT	Site/Project Identification: NATIONAL GRID - EQUITY
Company: AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program:
Address: 20 EXCHANGE PLACE	Analysis Turnaround Time: Standard ☒	
City: MANHATTAN State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 212-510-2100 Fax:		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No: 47827

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs 8260	SVOCs 8270	Sample Numbers
SB-34 (35-36)	1-21-13	1400	SOIL	5	X	X	1
SB-34 (97-98)	1-21-13	1530	SOIL	5	X	X	2
DUPE-1-13	1-21-13		SOIL	5	X	X	3
SB-35 (35-36)	1-22-13	1400	SOIL	5	X	X	4
SB-35 (35-36) MS	1-22-13	1400	SOIL	5	X	X	4
SB-35 (35-36) MSD	1-22-13	1400	SOIL	5	X	X	4
SB-35 (44-45)	1-22-13	1500	SOIL	5	X	X	5

5-Day RUSH

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other MEOH/DI H_2O Other _____

Soil: 1/6 1
Water:

Special Instructions: EDD FORMAT TO: COLLEEN.SCOTT@AECOM.COM

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
	AECOM	1-23-13 13:00	1) RALPH MASTO	T.A. N.Y.C.
Relinquished by	Company	Date / Time	Received by	Company
2) RALPH MASTO	T.A. N.Y.C.	1/23/13 17:00	2)	TAEDI
Relinquished by	Company	Date / Time	Received by	Company
3)			3)	
Relinquished by	Company	Date / Time	Received by	Company
4)			4)	

Short Hold

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 3.0/41 3.0/4.1 3.0/4.1 IR#4 NOC-1.

01/31/2013
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TestAmerica Edison Receipt Temperature and pH Log

Job Number: 49827

Number of Coolers:	3	IR Gun #	9		
Temp. Cooler #1 (Deg C) (Raw/Corrected)	3.2/4.1	Temp. Cooler #4 (Deg C) (Raw/Corrected)	3.2/4.1	Temp. Cooler #7 (Deg C) (Raw/Corrected)	3.6/4.1
Temp. Cooler #2 (Deg C) (Raw/Corrected)		Temp. Cooler #5 (Deg C) (Raw/Corrected)		Temp. Cooler #8 (Deg C) (Raw/Corrected)	
Temp. Cooler #3 (Deg C) (Raw/Corrected)		Temp. Cooler #6 (Deg C) (Raw/Corrected)		Temp. Cooler #9 (Deg C) (Raw/Corrected)	

Sample No.	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	*Metals (pH<2)	Pest (pH 5-9)	PHC (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative: _____ Expiration Date: _____

Project Manager and the Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 3, 10/8/12

Initials: A Hall Date: 1/23/13

01/31/2013

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-49827-1

Login Number: 49827
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1,4.1,4.1° C IR #4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-49827-1 Analy Batch No.: 143598

SDG No.:

Instrument ID: BNAMS10 GC Column: Rtx-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/16/2013 12:37 Calibration End Date: 01/16/2013 14:56 Calibration ID: 19807

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-143598/7	p33795.d
Level 2	IC 460-143598/6	p33794.d
Level 3	IC 460-143598/5	p33793.d
Level 4	ICIS 460-143598/2	p33790.d
Level 5	IC 460-143598/4	p33792.d
Level 6	IC 460-143598/3	p33791.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Naphthylamine	0 0	0	0	0	0	Ave								30.0			
2-Naphthylamine	0 0	0	0	0	0	Ave								15.0			
o-Toluidine	0 0	0	0	0	0	Ave								15.0			
2,3,7,8-TCDD (Screen)	+++++ +++++	+++++	+++++	0.2126	+++++	Ave		0.2126						15.0			
1,4-Dioxane	0.8519 0.7609	0.8534	0.7832	0.8085	0.7943	Ave		0.8087				4.6		15.0			
N-Nitrosodimethylamine	1.1861 1.0268	1.1606	1.0661	1.0636	0.9972	Ave		1.0834				6.9		15.0			
Pyridine	2.1293 1.7843	2.1115	1.9455	1.8672	1.7655	Ave		1.9339				8.2		15.0			
Benzaldehyde	1.2128 0.1595	1.1321	0.8554	0.4796	0.2706	Ave		0.6850				65.2	*	15.0			
Phenol	2.1685 1.6042	2.1008	1.8669	1.5864	1.4812	QuaF		0.6393	-0.002						0.9962		0.9900
Aniline	2.5131 2.0164	2.4190	2.0891	1.8421	1.6877	QuaF		0.6001	-0.016						0.9940		0.9900
Bis(2-chloroethyl)ether	1.7844 1.2066	1.6636	1.4971	1.3637	1.5829	Ave		1.5164				13.8		15.0			
2-Chlorophenol	1.6579 1.2310	1.6134	1.5231	1.3032	1.2204	Ave		1.4248				13.8		15.0			
Decane	1.6498 1.2955	1.5705	1.6065	1.4698	1.3834	Ave		1.4959				9.2		15.0			
1,3-Dichlorobenzene	1.8808 1.3910	1.8178	1.6576	1.5298	1.4950	Ave		1.6287				11.8		15.0			
1,4-Dichlorobenzene	1.8591 1.3435	1.8092	1.6680	1.5040	1.4098	Ave		1.5989				13.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-145061/6

Matrix: Solid | Lab File ID: o69430.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/29/2013 09:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.16	U	1.0	0.16
74-83-9	Bromomethane	0.43	U	1.0	0.43
75-01-4	Vinyl chloride	0.34	U	1.0	0.34
75-00-3	Chloroethane	0.33	U	1.0	0.33
75-09-2	Methylene Chloride	0.15	U	1.0	0.15
67-64-1	Acetone	1.91	J	10	1.7
75-15-0	Carbon disulfide	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.16	U	1.0	0.16
75-35-4	1,1-Dichloroethene	0.19	U	1.0	0.19
75-34-3	1,1-Dichloroethane	0.11	U	1.0	0.11
156-60-5	trans-1,2-Dichloroethene	0.13	U	1.0	0.13
156-59-2	cis-1,2-Dichloroethene	0.11	U	1.0	0.11
67-66-3	Chloroform	0.24	U	1.0	0.24
78-93-3	2-Butanone	0.63	U	10	0.63
107-06-2	1,2-Dichloroethane	0.18	U	1.0	0.18
71-55-6	1,1,1-Trichloroethane	0.13	U	1.0	0.13
56-23-5	Carbon tetrachloride	0.15	U	1.0	0.15
71-43-2	Benzene	0.15	U	1.0	0.15
75-25-2	Bromoform	0.17	U	1.0	0.17
100-42-5	Styrene	0.28	U	1.0	0.28
179601-23-1	m&p-Xylene	0.59	U	2.0	0.59
95-47-6	o-Xylene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.18	U	1.0	0.18
110-82-7	Cyclohexane	0.13	U	1.0	0.13
98-82-8	Isopropylbenzene	0.11	U	1.0	0.11
591-78-6	2-Hexanone	0.13	U	10	0.13
1634-04-4	MTBE	0.11	U	1.0	0.11
76-13-1	Freon TF	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	13	U	50	13
79-01-6	Trichloroethene	0.12	U	1.0	0.12
108-88-3	Toluene	0.14	U	1.0	0.14
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
108-10-1	4-Methyl-2-pentanone	0.20	U	10	0.20
10061-01-5	cis-1,3-Dichloropropene	0.14	U	1.0	0.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-49827-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-145061/6

Matrix: Solid | Lab File ID: o69430.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 01/29/2013 09:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 145061 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	0.10	U	1.0	0.10
541-73-1	1,3-Dichlorobenzene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.11	U	1.0	0.11
120-82-1	1,2,4-Trichlorobenzene	0.19	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.0	0.16
78-87-5	1,2-Dichloropropane	0.15	U	1.0	0.15
108-87-2	Methylcyclohexane	0.10	U	1.0	0.10
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
96-12-8	1,2-Dibromo-3-Chloropropane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.090	U	1.0	0.090
79-00-5	1,1,2-Trichloroethane	0.14	U	1.0	0.14
124-48-1	Dibromochloromethane	0.10	U	1.0	0.10
106-93-4	1,2-Dibromoethane	0.15	U	1.0	0.15
75-71-8	Dichlorodifluoromethane	0.22	U	1.0	0.22
74-97-5	Bromochloromethane	0.11	U	1.0	0.11
75-27-4	Bromodichloromethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	88		70-130
460-00-4	Bromofluorobenzene	89		70-130

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-145061/2 Calibration Date: 01/29/2013 07:12

Instrument ID: VOAMS12 Calib Start Date: 01/28/2013 22:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/29/2013 01:52

Lab File ID: o69426.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3661	0.4427		24.2	20.0	20.9	50.0
Chloromethane	Ave	0.4971	0.5446	0.1000	21.9	20.0	9.5	50.0
Vinyl chloride	Ave	0.4171	0.4611		22.1	20.0	10.5	20.0
Bromomethane	Ave	0.2720	0.3077		22.6	20.0	13.1	50.0
Chloroethane	LinF	0.2475	0.2620		19.9	20.0	-0.6	50.0
Dichlorofluoromethane	Ave	0.5970	0.6825		22.9	20.0	14.3	50.0
Trichlorofluoromethane	Ave	0.5977	0.6871		23.0	20.0	14.9	50.0
n-Pentane	Ave	0.0822	0.0890		43.3	40.0	8.3	50.0
Isopropene	Ave	0.5136	0.5470		21.3	20.0	6.5	50.0
Ethyl ether	Ave	0.2712	0.2553		18.8	20.0	-5.9	50.0
Ethanol	Ave	0.0017	0.0015		2620	3000	-12.8	50.0
Acrolein	Ave	0.0280	0.0262		282	300	-6.2	99.0
1,1-Dichloroethene	LinF	0.2636	0.3182		19.4	20.0	-3.1	20.0
Freon TF	Ave	0.3706	0.4231		22.8	20.0	14.2	50.0
Acetone	LinF	0.1033	0.1147		25.6	20.0	27.8	50.0
Iodomethane	LinF	0.3935	0.2608		11.0	20.0	-45.0	50.0
Carbon disulfide	Ave	1.024	1.110		21.7	20.0	8.4	50.0
Acetonitrile	Ave	0.0739	0.0748		405	400	1.2	50.0
Methyl acetate	LinF	0.0675	0.0578		17.7	20.0	-11.5	50.0
Methylene Chloride	Ave	0.3206	0.3429		21.4	20.0	7.0	50.0
TBA	Ave	0.0422	0.0390		370	400	-7.6	50.0
trans-1,2-Dichloroethene	LinF	0.3394	0.3794		18.2	20.0	-8.9	50.0
Acrylonitrile	Ave	0.0977	0.0973		149	150	-0.4	50.0
MTBE	Ave	1.018	0.9421		18.5	20.0	-7.4	50.0
Hexane	Ave	0.2993	0.3266		21.8	20.0	9.1	50.0
1,1-Dichloroethane	Ave	0.5836	0.6736	0.1000	23.1	20.0	15.4	50.0
Vinyl acetate	Ave	0.9222	0.8624		37.4	40.0	-6.5	50.0
DIPE	Ave	1.257	1.216		19.3	20.0	-3.3	50.0
Tert-butyl ethyl ether	Ave	1.166	1.066	0.0100	18.3	20.0	-8.5	50.0
2,2-Dichloropropane	Ave	0.5826	0.6357		21.8	20.0	9.1	50.0
cis-1,2-Dichloroethene	Ave	0.3640	0.4092		22.5	20.0	12.4	50.0
2-Butanone	Ave	0.0351	0.0382		21.8	20.0	8.9	50.0
Ethyl acetate	Ave	0.0322	0.0273		33.9	40.0	-15.3	50.0
Bromochloromethane	Ave	0.1696	0.1763		20.8	20.0	3.9	50.0
Tetrahydrofuran	Ave	0.1071	0.0908		17.0	20.0	-15.2	50.0
Chloroform	LinF	0.5800	0.6396		18.3	20.0	-8.5	20.0
1,1,1-Trichloroethane	LinF	0.5345	0.6088		17.8	20.0	-10.9	50.0
Cyclohexane	Ave	0.6488	0.7177		22.1	20.0	10.6	50.0
Carbon tetrachloride	LinF	0.4535	0.5254		17.0	20.0	-15.1	50.0
1,1-Dichloropropene	LinF	0.4326	0.4943		18.0	20.0	-10.1	50.0
Benzene	Ave	1.312	1.456		22.2	20.0	10.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-145061/2 Calibration Date: 01/29/2013 07:12

Instrument ID: VOAMS12 Calib Start Date: 01/28/2013 22:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/29/2013 01:52

Lab File ID: o69426.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane	Ave	0.4300	0.4496		20.9	20.0	4.6	50.0
Isopropyl acetate	Ave	0.8793	0.7659		34.8	40.0	-12.9	50.0
Tert-amyl methyl ether	Ave	1.020	0.9243		18.1	20.0	-9.4	50.0
2,4,4-Trimethyl-1-pentene	Ave	0.1517	0.1683		44.4	40.0	11.0	50.0
Trichloroethene	LinF	0.3569	0.3722		17.0	20.0	-15.2	50.0
n-Butanol	Ave	0.0049	0.0043		1330	1500	-11.1	50.0
Ethyl acrylate	LinF	0.0216	0.0187		17.2	20.0	-14.1	50.0
Methylcyclohexane	Ave	0.6879	0.7627		22.2	20.0	10.9	50.0
1,2-Dichloropropane	Ave	0.3317	0.3331		20.1	20.0	0.4	20.0
Dibromomethane	Ave	0.1805	0.1797		19.9	20.0	-0.5	50.0
Methyl methacrylate	Ave	0.2256	0.1979		17.5	20.0	-12.3	50.0
1,4-Dioxane	Ave	0.0040	0.0037		137	150	-8.5	50.0
Propyl acetate	Ave	0.4521	0.3915		17.3	20.0	-13.4	50.0
Bromodichloromethane	Ave	0.4102	0.4363		21.3	20.0	6.3	50.0
2-Chloroethyl vinyl ether	Ave	0.1560	0.1724		22.1	20.0	10.5	50.0
Epichlorohydrin	Ave	0.0296	0.0264		356	400	-11.0	50.0
cis-1,3-Dichloropropene	Ave	0.5220	0.5529		21.2	20.0	5.9	50.0
4-Methyl-2-pentanone	Ave	0.2846	0.2679		18.8	20.0	-5.9	50.0
Toluene	Ave	2.041	2.170		21.3	20.0	6.4	20.0
trans-1,3-Dichloropropene	Ave	0.5913	0.6157		20.8	20.0	4.1	50.0
1,1,2-Trichloroethane	Ave	0.2975	0.2862		19.2	20.0	-3.8	50.0
Tetrachloroethene	LinF	0.6077	0.6925		18.0	20.0	-9.9	50.0
1,3-Dichloropropane	Ave	0.6255	0.6145		19.6	20.0	-1.8	50.0
2-Hexanone	Ave	0.2646	0.2679		20.2	20.0	1.2	50.0
Dibromochloromethane	LinF	0.4275	0.4135		15.4	20.0	-22.9	50.0
Butyl acetate	Ave	0.6693	0.5851		35.0	40.0	-12.6	50.0
1,2-Dibromoethane	Ave	0.3640	0.3547		19.5	20.0	-2.5	50.0
Chlorobenzene	Ave	1.338	1.402	0.3000	21.0	20.0	4.8	50.0
1,1,1,2-Tetrachloroethane	Ave	0.4536	0.4772		21.0	20.0	5.2	50.0
Ethylbenzene	Ave	0.7450	0.7885		21.2	20.0	5.8	20.0
m&p-Xylene	Ave	0.9135	0.9650		42.3	40.0	5.6	50.0
o-Xylene	Ave	0.8807	0.9018		20.5	20.0	2.4	50.0
Styrene	LinF	1.471	1.524		17.2	20.0	-13.8	50.0
Butyl acrylate	Ave	1.471	1.277		17.4	20.0	-13.2	50.0
Bromoform	LinF	0.3075	0.2838	0.1000	14.2	20.0	-29.2	50.0
Amly acetate	Ave	0.7232	0.6518		18.0	20.0	-9.9	50.0
Isopropylbenzene	LinF	2.347	2.595		18.1	20.0	-9.3	50.0
Camphene, Total	Ave	0.3943	0.3997		20.3	20.0	1.4	50.0
Monobromobenzene	Ave	1.130	1.123		19.9	20.0	-0.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7893	0.7403	0.3000	18.8	20.0	-6.2	50.0
1,2,3-Trichloropropane	Ave	0.2492	0.2323		18.6	20.0	-6.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-145061/2 Calibration Date: 01/29/2013 07:12

Instrument ID: VOAMS12 Calib Start Date: 01/28/2013 22:08

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/29/2013 01:52

Lab File ID: o69426.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Ave	0.1036	0.0914		17.6	20.0	-11.8	50.0
N-Propylbenzene	Ave	4.641	5.248		22.6	20.0	13.1	50.0
2-Chlorotoluene	Ave	2.794	2.916		20.9	20.0	4.4	50.0
p-Ethyltoluene	Ave	1.923	1.986		20.7	20.0	3.3	50.0
4-Chlorotoluene	Ave	2.764	2.989		21.6	20.0	8.1	50.0
1,3,5-Trimethylbenzene	Ave	3.298	3.685		22.3	20.0	11.7	50.0
Butyl Methacrylate	Ave	1.266	1.134		17.9	20.0	-10.4	50.0
tert-Butylbenzene	LinF	3.101	3.414		18.0	20.0	-9.9	50.0
1,2,4-Trimethylbenzene	Ave	3.536	3.664		20.7	20.0	3.6	50.0
sec-Butylbenzene	LinF	4.513	5.048		18.2	20.0	-8.9	50.0
1,3-Dichlorobenzene	Ave	2.158	2.236		20.7	20.0	3.6	50.0
1,4-Dichlorobenzene	Ave	2.208	2.252		20.4	20.0	2.0	50.0
p-Isopropyltoluene	Ave	3.803	4.381		23.0	20.0	15.2	50.0
Benzyl chloride	Ave	1.650	1.611		19.5	20.0	-2.3	50.0
1,2-Dichlorobenzene	Ave	2.048	2.026		19.8	20.0	-1.0	50.0
1,4-Diethylbenzene	Ave	1.138	1.223		21.5	20.0	7.5	50.0
n-Butylbenzene	Ave	4.094	4.775		23.3	20.0	16.7	50.0
1,2-Dibromo-3-Chloropropane	LinF	0.2088	0.1640		15.6	20.0	-22.0	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.781	1.788		20.1	20.0	0.4	50.0
Camphor	Ave	0.1028	0.0761		73.9	100	-26.1	50.0
1,2,4-Trichlorobenzene	Ave	1.741	1.684		19.3	20.0	-3.3	50.0
Hexachlorobutadiene	Ave	1.015	1.186		23.4	20.0	16.9	50.0
Naphthalene	Ave	3.254	2.782		17.1	20.0	-14.5	50.0
1,2,3-Trichlorobenzene	Ave	1.593	1.455		18.3	20.0	-8.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2004	0.1843		46.0	50.0	-8.0	50.0
Toluene-d8 (Surr)	Ave	0.9876	0.9397		47.6	50.0	-4.8	50.0
Bromofluorobenzene	Ave	0.8386	0.7776		46.4	50.0	-7.3	50.0

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o69438.d

Lab ID: 460-49827-4 MS SB-35(35-36) Client ID: SB-35 (35-36) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chloromethane	20.0	0.17 U	14.5	72	50-151	
Bromomethane	20.0	0.46 U	16.7	83	54-142	
Vinyl chloride	20.0	0.37 U	15.4	77	67-133	
Chloroethane	20.0	0.36 U	14.7	73	56-146	
Methylene Chloride	20.0	0.31 J	18.8	92	74-137	
Acetone	20.0	12	27.9	81	27-164	
Carbon disulfide	20.0	11	26.0	74	72-128	
Trichlorofluoromethane	20.0	0.17 U	17.8	89	61-139	
1,1-Dichloroethene	20.0	0.20 U	17.6	88	71-126	
1,1-Dichloroethane	20.0	0.12 U	19.8	99	76-125	
trans-1,2-Dichloroethene	20.0	1.2	16.3	75	75-122	
cis-1,2-Dichloroethene	20.0	16	26.6	54	80-120	F
Chloroform	20.0	0.26 U	15.9	79	77-120	
2-Butanone	20.0	3.5 J	24.8	107	77-117	
1,2-Dichloroethane	20.0	0.19 U	18.2	91	76-118	
1,1,1-Trichloroethane	20.0	0.14 U	15.6	78	78-117	
Carbon tetrachloride	20.0	0.16 U	14.5	72	79-118	F
Benzene	20.0	4.1	22.0	89	77-117	
Bromoform	20.0	0.18 U	13.0	65	59-125	
Styrene	20.0	0.30 U	14.0	70	82-122	F
m&p-Xylene	40.0	0.63 U	36.1	90	81-121	
o-Xylene	20.0	0.40 J	18.0	88	82-122	
Ethylbenzene	20.0	0.74 J	18.5	88	81-121	
Chlorobenzene	20.0	0.19 U	17.8	89	80-120	
Cyclohexane	20.0	0.14 U	17.1	86	80-121	
Isopropylbenzene	20.0	0.12 U	14.9	74	65-129	
2-Hexanone	20.0	0.14 U	19.6	98	70-122	
MTBE	20.0	0.76 J	16.8	80	78-120	
Freon TF	20.0	0.12 U	17.9	89	73-123	
Methyl acetate	20.0	0.34 U	18.3	91	73-137	
1,4-Dioxane	150	14 U	128	85	69-131	
Trichloroethene	20.0	0.77 J	16.5	79	79-119	
Toluene	20.0	0.69 J	18.8	91	75-115	
trans-1,3-Dichloropropene	20.0	0.11 U	17.6	88	67-121	
4-Methyl-2-pentanone	20.0	0.22 U	17.3	86	68-120	
cis-1,3-Dichloropropene	20.0	0.15 U	17.4	87	80-123	
1,2-Dichlorobenzene	20.0	0.11 U	15.5	77	80-120	F
1,3-Dichlorobenzene	20.0	0.17 U	15.7	78	80-120	F
1,4-Dichlorobenzene	20.0	0.12 U	15.8	79	80-120	F
1,2,4-Trichlorobenzene	20.0	0.20 U	12.4	62	80-120	F
1,2,3-Trichlorobenzene	20.0	0.17 U	12.2	61	75-121	F
1,2-Dichloropropane	20.0	0.16 U	17.9	90	82-122	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o69438.d

Lab ID: 460-49827-4 MS Client ID: SB-35 (35-36) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Methylcyclohexane	20.0	0.11 U	16.2	81	78-118	
Tetrachloroethene	20.0	0.13 U	15.8	79	80-120	F
1,2-Dibromo-3-Chloropropane	20.0	0.47 U	14.1	70	74-118	F
1,1,2,2-Tetrachloroethane	20.0	0.097 U	16.2	81	79-122	
1,1,2-Trichloroethane	20.0	0.15 U	17.1	86	73-118	
Dibromochloromethane	20.0	0.11 U	14.2	71	68-120	
1,2-Dibromoethane	20.0	0.16 U	17.3	86	75-117	
Dichlorodifluoromethane	20.0	0.24 U	15.9	79	52-144	
Bromochloromethane	20.0	0.12 U	19.3	96	74-125	
Bromodichloromethane	20.0	0.34 U	19.8	99	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o69439.d

Lab ID: 460-49827-4 MSD Client ID: SB-35 (35-36) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chloromethane	21.3	16.0	75	10	30	50-151	
Bromomethane	21.3	17.3	81	4	30	54-142	
Vinyl chloride	21.3	17.4	81	12	30	67-133	
Chloroethane	21.3	16.7	78	13	30	56-146	
Methylene Chloride	21.3	20.1	93	7	30	74-137	
Acetone	21.3	34.4	106	21	30	27-164	
Carbon disulfide	21.3	25.3	66	3	30	72-128	F
Trichlorofluoromethane	21.3	19.9	93	11	30	61-139	
1,1-Dichloroethene	21.3	17.7	83	1	30	71-126	
1,1-Dichloroethane	21.3	21.0	99	6	30	76-125	
trans-1,2-Dichloroethene	21.3	16.7	73	2	30	75-122	F
cis-1,2-Dichloroethene	21.3	26.1	48	2	30	80-120	F
Chloroform	21.3	16.9	79	6	30	77-120	
2-Butanone	21.3	28.0	115	12	30	77-117	
1,2-Dichloroethane	21.3	19.4	91	6	30	76-118	
1,1,1-Trichloroethane	21.3	16.3	76	4	30	78-117	F
Carbon tetrachloride	21.3	15.2	71	5	30	79-118	F
Benzene	21.3	22.3	86	2	30	77-117	
Bromoform	21.3	13.3	63	3	30	59-125	
Styrene	21.3	14.8	69	6	30	82-122	F
m&p-Xylene	42.6	37.6	88	4	30	81-121	
o-Xylene	21.3	18.8	86	4	30	82-122	
Ethylbenzene	21.3	19.3	87	5	30	81-121	
Chlorobenzene	21.3	18.8	88	6	30	80-120	
Cyclohexane	21.3	18.1	85	5	30	80-121	
Isopropylbenzene	21.3	15.5	73	4	30	65-129	
2-Hexanone	21.3	21.2	99	8	30	70-122	
MTBE	21.3	18.0	81	7	30	78-120	
Freon TF	21.3	18.2	85	2	30	73-123	
Methyl acetate	21.3	20.3	95	11	30	73-137	
1,4-Dioxane	160	146	91	13	30	69-131	
Trichloroethene	21.3	16.6	74	0	30	79-119	F
Toluene	21.3	19.4	88	3	30	75-115	
trans-1,3-Dichloropropene	21.3	18.1	85	3	30	67-121	
4-Methyl-2-pentanone	21.3	18.2	85	5	30	68-120	
cis-1,3-Dichloropropene	21.3	18.0	84	3	30	80-123	
1,2-Dichlorobenzene	21.3	16.2	76	5	30	80-120	F
1,3-Dichlorobenzene	21.3	16.5	77	5	30	80-120	F
1,4-Dichlorobenzene	21.3	16.5	77	4	30	80-120	F
1,2,4-Trichlorobenzene	21.3	13.2	62	6	30	80-120	F
1,2,3-Trichlorobenzene	21.3	12.8	60	5	30	75-121	F
1,2-Dichloropropane	21.3	19.1	89	6	30	82-122	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: o69439.d

Lab ID: 460-49827-4 MSD Client ID: SB-35 (35-36) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methylcyclohexane	21.3	17.1	80	5	30	78-118	
Tetrachloroethene	21.3	16.0	75	1	30	80-120	F
1,2-Dibromo-3-Chloropropane	21.3	14.2	67	1	30	74-118	F
1,1,2,2-Tetrachloroethane	21.3	17.1	80	5	30	79-122	
1,1,2-Trichloroethane	21.3	17.5	82	2	30	73-118	
Dibromochloromethane	21.3	15.2	71	6	30	68-120	
1,2-Dibromoethane	21.3	18.3	86	5	30	75-117	
Dichlorodifluoromethane	21.3	18.2	85	14	30	52-144	
Bromochloromethane	21.3	19.3	90	0	30	74-125	
Bromodichloromethane	21.3	20.2	95	2	30	79-119	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-144835/2 Calibration Date: 01/25/2013 02:15

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p34027.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8087	0.6618		40900	50000	-18.2	20.0
N-Nitrosodimethylamine	Ave	1.083	0.8894		41000	50000	-17.9	20.0
Pyridine	Ave	1.934	1.567		40500	50000	-19.0	20.0
Benzaldehyde	Ave	0.6850	0.3164		23100	50000	-53.8*	20.0
Aniline	QuaF	2.095	1.824		51400	50000	2.7	20.0
Phenol	QuaF	1.801	1.580		50200	50000	0.5	20.0
Bis(2-chloroethyl)ether	Ave	1.516	1.390		45800	50000	-8.3	20.0
2-Chlorophenol	Ave	1.425	1.252		43900	50000	-12.1	20.0
Decane	Ave	1.496	1.287		43000	50000	-13.9	20.0
1,3-Dichlorobenzene	Ave	1.629	1.538		47200	50000	-5.6	20.0
1,4-Dichlorobenzene	Ave	1.599	1.503		47000	50000	-6.0	20.0
Benzyl alcohol	Ave	0.8524	0.7713		45200	50000	-9.5	20.0
1,2-Dichlorobenzene	QuaF	1.480	1.428		53300	50000	6.6	20.0
2,2'-oxybis[1-chloropropane]	QuaF	1.513	1.316		48000	50000	-3.9	20.0
2-Methylphenol	QuaF	1.172	1.065		52700	50000	5.4	20.0
Acetophenone	QuaF	1.811	1.700		54900	50000	9.8	20.0
N-Nitrosodi-n-propylamine	QuaF	0.9048	0.7473	0.0500	47500	50000	-5.1	20.0
3 & 4 Methylphenol	QuaF	1.188	1.063		55400	50000	10.7	20.0
4-Methylphenol	QuaF	1.183	1.034		54200	50000	8.4	20.0
Hexachloroethane	QuaF	0.7078	0.6479		50700	50000	1.3	20.0
n,n'-Dimethylaniline	QuaF	1.717	1.663		54700	50000	9.3	20.0
Nitrobenzene	QuaF	0.6174	0.5964		53000	50000	5.9	20.0
Isophorone	Ave	0.6797	0.6687		49200	50000	-1.6	20.0
2-Nitrophenol	Ave	0.2111	0.2087		49400	50000	-1.2	20.0
2,4-Dimethylphenol	Ave	0.3248	0.3032		46700	50000	-6.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.4515	0.4267		47300	50000	-5.5	20.0
Benzoic acid	QuaF	0.1394	0.1316		39000	50000	-21.9*	20.0
2,4-Dichlorophenol	QuaF	0.2859	0.2797		53500	50000	7.0	20.0
1,2,4-Trichlorobenzene	QuaF	0.3620	0.3551		52400	50000	4.8	20.0
Naphthalene	QuaF	1.038	0.9562		51600	50000	3.3	20.0
4-Chloroaniline	QuaF	0.4115	0.3570		46900	50000	-6.1	20.0
Hexachlorobutadiene	QuaF	0.2263	0.2289		53900	50000	7.8	20.0
Caprolactam	Ave	0.0912	0.0728		39900	50000	-20.2*	20.0
4-Chloro-3-methylphenol	Ave	0.3063	0.2781		45400	50000	-9.2	20.0
2-Methylnaphthalene	QuaF	0.6573	0.6307		51900	50000	3.8	20.0
1-Methylnaphthalene	QuaF	0.6754	0.6413		51800	50000	3.5	20.0
Hexachlorocyclopentadiene	Ave	0.4102	0.4149	0.0500	50600	50000	1.1	20.0
1,2,4,5-Tetrachlorobenzene	QuaF	0.6107	0.5972		52200	50000	4.4	20.0
2-tertbutyl-4-methylphenol	QuaF	0.4560	0.4323		51400	50000	2.8	20.0
2,4,6-Trichlorophenol	Ave	0.4262	0.3698		43400	50000	-13.3	20.0
2,4,5-Trichlorophenol	Ave	0.4091	0.3703		45300	50000	-9.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-144835/2 Calibration Date: 01/25/2013 02:15

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p34027.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Diphenyl	QuaF	1.580	1.410		50400	50000	0.8	20.0
2-Chloronaphthalene	QuaF	1.226	1.131		50200	50000	0.4	20.0
Diphenyl ether	Ave	0.8341	0.8038		48200	50000	-3.6	20.0
2-Nitroaniline	Ave	0.4825	0.3620		37500	50000	-25.0*	20.0
Dimethylnaphthalene, total	Ave	1.032	0.9638		46700	50000	-6.6	20.0
Dimethyl phthalate	QuaF	1.164	1.068		48400	50000	-3.1	20.0
Coumarin	Ave	0.1790	0.1721		48100	50000	-3.9	20.0
2,6-Dinitrotoluene	Ave	0.2831	0.2641		46600	50000	-6.7	20.0
Acenaphthylene	QuaF	1.781	1.606		48800	50000	-2.4	20.0
3-Nitroaniline	Ave	0.2786	0.2327		41800	50000	-16.5	20.0
Acenaphthene	QuaF	1.001	0.9864		53300	50000	6.6	20.0
3,5-di-tert-butyl-4-hydroxytol	QuaF	0.9823	0.9906		54800	50000	9.7	20.0
2,4-Dinitrophenol	QuaF	0.1198	0.1103	0.0500	42300	50000	-15.4	20.0
4-Nitrophenol	Ave	0.2181	0.1801	0.0500	41300	50000	-17.4	20.0
2,4-Dinitrotoluene	Ave	0.3110	0.2979		47900	50000	-4.2	20.0
Dibenzofuran	QuaF	1.418	1.373		51000	50000	1.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2632	0.2566		48700	50000	-2.5	20.0
Diethyl phthalate	Ave	1.120	1.028		45900	50000	-8.2	20.0
Fluorene	QuaF	1.096	1.080		50800	50000	1.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.5252	0.5336		50800	50000	1.6	20.0
4-Nitroaniline	Ave	0.2536	0.1766		34800	50000	-30.4*	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1313	0.1201		45700	50000	-8.5	20.0
N-Nitrosodiphenylamine	Ave	0.5623	0.5586		49700	50000	-0.6	20.0
1,2-Diphenylhydrazine	Ave	1.226	1.152		47000	50000	-6.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2394	0.2614		54600	50000	9.2	20.0
Hexachlorobenzene	Ave	0.2690	0.2821		52400	50000	4.9	20.0
Atrazine	Ave	0.2036	0.2033		49900	50000	-0.1	20.0
Pentachlorophenol	Ave	0.1348	0.1336		49500	50000	-0.9	20.0
Pentachloronitrobenzene	Ave	0.1099	0.1106		50300	50000	0.6	
n-Octadecane	Ave	0.6108	0.5556		45500	50000	-9.0	20.0
Phenanthrene	QuaF	1.114	1.077		51800	50000	3.6	20.0
Anthracene	QuaF	1.127	1.067		50100	50000	0.2	20.0
Carbazole	Ave	0.9015	0.8035		44600	50000	-10.9	20.0
Di-n-butyl phthalate	Ave	1.190	1.068		44900	50000	-10.2	20.0
Fluoranthene	Ave	0.9547	0.8900		46600	50000	-6.8	20.0
Benzidine	Ave	0.2205	0.0479		10900	50000	-78.3*	20.0
Pyrene	QuaF	1.578	1.487		51500	50000	3.0	20.0
Butyl benzyl phthalate	Ave	0.7225	0.6450		44600	50000	-10.7	20.0
2,3,7,8-TCDD (Screen)	Ave	0.2126	0.2022		476	500	-4.9	20.0
Carbamazepine	Ave	0.5249	0.4210		40100	50000	-19.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Lab Sample ID: CCVIS 460-144835/2 Calibration Date: 01/25/2013 02:15

Instrument ID: BNAMS10 Calib Start Date: 01/16/2013 12:37

GC Column: Rtx-5MS ID: 0.25(mm) Calib End Date: 01/16/2013 14:56

Lab File ID: p34027.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.3645	0.3042		41700	50000	-16.6	20.0
Benzo[a]anthracene	Ave	1.177	1.146		48700	50000	-2.6	20.0
Chrysene	Ave	1.095	1.103		50400	50000	0.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9183	0.8337		45400	50000	-9.2	20.0
Di-n-octyl phthalate	Ave	1.553	1.523		49000	50000	-2.0	20.0
Benzo[b]fluoranthene	Ave	1.100	1.163		52800	50000	5.7	20.0
Benzo[k]fluoranthene	Ave	1.130	1.244		55100	50000	10.2	20.0
Benzo[a]pyrene	Ave	0.9000	0.9850		54700	50000	9.4	20.0
Indeno[1,2,3-cd]pyrene	QuaF	0.8187	0.9613		51200	50000	2.3	20.0
Dibenz(a,h)anthracene	QuaF	0.8117	0.9548		52800	50000	5.6	20.0
Benzo[g,h,i]perylene	Ave	0.8793	0.9608		54600	50000	9.3	20.0
2-Fluorophenol	Ave	1.497	1.318		44000	50000	-11.9	20.0
Phenol-d5	QuaF	1.662	1.507		51000	50000	1.9	20.0
Nitrobenzene-d5	Ave	0.4623	0.4553		49200	50000	-1.5	20.0
2-Fluorobiphenyl	QuaF	1.412	1.293		49500	50000	-0.9	20.0
2,4,6-Tribromophenol	Ave	0.1678	0.1806		53800	50000	7.6	20.0
Terphenyl-d14	Ave	1.089	1.062		48800	50000	-2.5	20.0

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p34065.d

Lab ID: 460-49827-4 MS SB-35 (35-36) Client ID: SB-35 (35-36) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Phenol	8180	55 U	6680	82	54-115	
2-Chlorophenol	8180	53 U	6040	74	56-110	
2-Methylphenol	8180	69 U	7840	96	54-117	
4-Methylphenol	8180	80 U	8090	99	47-103	
Benzaldehyde	4090	48 U	554	14	10-160	
Acetophenone	4090	62 U	3740	92	40-95	
Bis(2-chloroethyl)ether	4090	5.5 U	3260	80	44-101	
2,2'-oxybis[1-chloropropane]	4090	45 U	3340	82	45-102	
N-Nitrosodi-n-propylamine	4090	6.8 U	3580	87	42-107	
Nitrobenzene	4090	5.8 U	3530	86	42-106	
Hexachloroethane	4090	4.5 U	3290	81	45-90	
Isophorone	4090	49 U	3220	79	48-97	
2-Nitrophenol	8180	45 U	6730	82	55-101	
2,4-Dimethylphenol	8180	100 U	6960	85	56-112	
2,4-Dichlorophenol	8180	59 U	8280	101	58-115	
Bis(2-chloroethoxy)methane	4090	52 U	3390	83	51-100	
Naphthalene	4090	47 U	3560	87	53-94	
4-Chloroaniline	4090	110 U	1270	31	10-96	
Hexachlorobutadiene	4090	9.9 U	3440	84	45-98	
Caprolactam	4090	94 U	3630	89	10-127	
4-Chloro-3-methylphenol	8180	61 U	7410	90	55-117	
2-Methylnaphthalene	4090	52 U	3710	91	51-98	
Hexachlorobenzene	4090	5.6 U	3910	96	43-104	
Hexachlorocyclopentadiene	4090	48 U	2580	63	24-98	
2,4,6-Trichlorophenol	8180	48 U	6490	79	53-118	
2,4,5-Trichlorophenol	8180	52 U	6650	81	50-115	
Diphenyl	4090	54 U	3540	87	50-105	
2-Chloronaphthalene	4090	45 U	3440	84	51-102	
2-Nitroaniline	4090	170 U	3550	87	51-109	
2,6-Dinitrotoluene	4090	12 U	3660	89	51-115	
Dimethyl phthalate	4090	48 U	4000	98	52-112	
Acenaphthylene	4090	48 U	3560	87	51-103	
3-Nitroaniline	4090	140 U	2500	61	32-104	
Acenaphthene	4090	59 U	4040	99	46-100	
4-Nitrophenol	8180	260 U	7950	97	45-114	
2,4-Dinitrophenol	8180	230 U	1960	24	10-129	
Dibenzofuran	4090	48 U	3760	92	52-106	
Diethyl phthalate	4090	48 U	3890	95	52-114	
Fluorene	4090	52 U	4020	98	51-108	
Fluoranthene	4090	63 J	3770	91	49-108	
Di-n-butyl phthalate	4090	50 U	3570	87	50-108	
2,4-Dinitrotoluene	4090	13 U	4210	103	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p34065.d

Lab ID: 460-49827-4 MS Client ID: SB-35 (35-36) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	4090	48 U	4050	99	50-106	
4-Nitroaniline	4090	130 U	3000	73	45-106	
4,6-Dinitro-2-methylphenol	8180	110 U	3960	48	10-110	
4-Bromophenyl phenyl ether	4090	40 U	3950	97	44-102	
Atrazine	4090	63 U	1820	45	30-100	
Anthracene	4090	49 U	3680	90	50-107	
Carbazole	4090	48 U	3580	87	49-104	
Phenanthrene	4090	55 J	3870	93	48-108	
Pentachlorophenol	8180	120 U	5870	72	19-113	
Pyrene	4090	71 J	3550	85	49-116	
Chrysene	4090	47 U	3640	89	45-114	
Benzo[k]fluoranthene	4090	3.1 U	3780	92	35-115	
Benzo[g,h,i]perylene	4090	30 U	3910	95	43-106	
Benzo[b]fluoranthene	4090	27 J	3980	97	33-96	F
Benzo[a]pyrene	4090	33 J	3910	95	36-89	F
Benzo[a]anthracene	4090	2.8 U	3640	89	46-112	
N-Nitrosodiphenylamine	4090	40 U	3950	97	49-106	
Butyl benzyl phthalate	4090	37 U	3450	84	49-117	
Bis(2-ethylhexyl) phthalate	4090	140 U	3550	87	49-119	
Di-n-octyl phthalate	4090	26 U	3970	97	40-106	
Indeno[1,2,3-cd]pyrene	4090	7.6 U	3700	90	43-109	
Dibenz(a,h)anthracene	4090	5.1 U	3750	92	43-107	
3,3'-Dichlorobenzidine	4090	140 U	2560	63	24-105	
1,2,4,5-Tetrachlorobenzene	4090	55 U	3270	80	70-130	
2,3,4,6-Tetrachlorophenol	4090	53 U	3600	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p34066.d

Lab ID: 460-49827-4 MSD Client ID: SB-35 (35-36) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	8190	6840	83	2	30	54-115	
2-Chlorophenol	8190	6170	75	2	30	56-110	
2-Methylphenol	8190	8130	99	4	30	54-117	
4-Methylphenol	8190	8260	101	2	30	47-103	
Benzaldehyde	4100	569	14	3	30	10-160	
Acetophenone	4100	3820	93	2	30	40-95	
Bis(2-chloroethyl)ether	4100	3270	80	0	30	44-101	
2,2'-oxybis[1-chloropropane]	4100	3410	83	2	30	45-102	
N-Nitrosodi-n-propylamine	4100	4660	114	26	30	42-107	F
Nitrobenzene	4100	3640	89	3	30	42-106	
Hexachloroethane	4100	3340	82	1	30	45-90	
Isophorone	4100	3360	82	4	30	48-97	
2-Nitrophenol	8190	6910	84	3	30	55-101	
2,4-Dimethylphenol	8190	7080	86	2	30	56-112	
2,4-Dichlorophenol	8190	8550	104	3	30	58-115	
Bis(2-chloroethoxy)methane	4100	3530	86	4	30	51-100	
Naphthalene	4100	3700	90	4	30	53-94	
4-Chloroaniline	4100	1270	31	0	30	10-96	
Hexachlorobutadiene	4100	3470	85	1	30	45-98	
Caprolactam	4100	3800	93	5	30	10-127	
4-Chloro-3-methylphenol	8190	7730	94	4	30	55-117	
2-Methylnaphthalene	4100	3870	94	4	30	51-98	
Hexachlorobenzene	4100	3940	96	1	30	43-104	
Hexachlorocyclopentadiene	4100	2610	64	1	30	24-98	
2,4,6-Trichlorophenol	8190	6630	81	2	30	53-118	
2,4,5-Trichlorophenol	8190	6920	84	4	30	50-115	
Diphenyl	4100	3610	88	2	30	50-105	
2-Chloronaphthalene	4100	3470	85	1	30	51-102	
2-Nitroaniline	4100	3600	88	2	30	51-109	
2,6-Dinitrotoluene	4100	3710	91	1	30	51-115	
Dimethyl phthalate	4100	4120	101	3	30	52-112	
Acenaphthylene	4100	3590	88	1	30	51-103	
3-Nitroaniline	4100	2520	61	1	30	32-104	
Acenaphthene	4100	4100	100	1	30	46-100	
4-Nitrophenol	8190	7810	95	2	30	45-114	
2,4-Dinitrophenol	8190	1750	21	11	30	10-129	
Dibenzofuran	4100	3830	94	2	30	52-106	
Diethyl phthalate	4100	3960	97	2	30	52-114	
Fluorene	4100	4100	100	2	30	51-108	
Fluoranthene	4100	3760	90	0	30	49-108	
Di-n-butyl phthalate	4100	3670	90	3	30	50-108	
2,4-Dinitrotoluene	4100	4330	106	3	30	53-110	

ND

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-49827-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: p34066.d

Lab ID: 460-49827-4 MSD Client ID: SB-35 (35-36) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Chlorophenyl phenyl ether	4100	4100	100	1	30	50-106	
4-Nitroaniline	4100	2950	72	2	30	45-106	
4,6-Dinitro-2-methylphenol	8190	3570	44	10	30	10-110	
4-Bromophenyl phenyl ether	4100	4000	98	1	30	44-102	
Atrazine	4100	1860	45	2	30	30-100	
Anthracene	4100	3790	93	3	30	50-107	
Carbazole	4100	3640	89	2	30	49-104	
Phenanthrene	4100	3970	96	2	30	48-108	
Pentachlorophenol	8190	5470	67	7	30	19-113	
Pyrene	4100	3780	91	6	30	49-116	
Chrysene	4100	3770	92	4	30	45-114	
Benzo[k]fluoranthene	4100	3920	96	4	30	35-115	
Benzo[g,h,i]perylene	4100	4040	98	3	30	43-106	
Benzo[b]fluoranthene	4100	4020	97	1	30	33-96	F
Benzo[a]pyrene	4100	4010	97	3	30	36-89	F
Benzo[a]anthracene	4100	3750	91	3	30	46-112	
N-Nitrosodiphenylamine	4100	4070	99	3	30	49-106	
Butyl benzyl phthalate	4100	3640	89	5	30	49-117	
Bis(2-ethylhexyl) phthalate	4100	3750	91	5	30	49-119	
Di-n-octyl phthalate	4100	4070	99	3	30	40-106	
Indeno[1,2,3-cd]pyrene	4100	3630	89	2	30	43-109	
Dibenz(a,h)anthracene	4100	3800	93	1	30	43-107	
3,3'-Dichlorobenzidine	4100	2660	65	4	30	24-105	
1,2,4,5-Tetrachlorobenzene	4100	3310	81	1	30	70-130	
2,3,4,6-Tetrachlorophenol	4100	3590	88	0	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-330
November 2014

Data Usability Summary Report
National Grid/Equity Former MGP Site
Addendum RI Sampling Event
October 2014
Final

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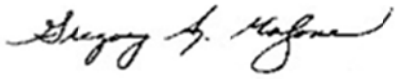

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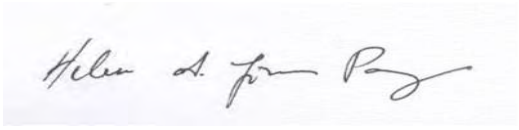

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Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on two data packages from Accutest Laboratories - New England, 495 Tech Center West, Building 1, Marlborough, MA 01752 for the analysis of soil samples collected October 13-15, 2014 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (CoC) records.

- Volatile Organic Compounds by USEPA SW-846 Method 8260C
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270D
- Polychlorinated Biphenyls (PCBs) by USEPA SW-846 Method 8082A
- Gasoline Range Organics (GRO) by USEPA SW-846 Method 8015
- Diesel Range Organics (DRO) by USEPA SW-846 Method 8015
- Comparison of Waterborne Petroleum Oils by Gas Chromatography by ASTM D3328-06 (Sample T5-SB7 (10-11) only)
- Oil Spill Source Identification by Gas Chromatography and Positive Ion Electron Impact Low Resolution Mass Spectrometry by ASTM D5729-06/8270C (Sample T5-SB7 (10-11) only)
- Total TAL Metals by USEPA SW-846 Methods 6010C and 7471B
- Percent Solids for Dry Weight Corrections by Method SM2540 B mod.

Not all samples were analyzed for all of the tests listed. Refer to the CoCs for the specific tests that were requested.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010, with additional reference to *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, October 2004, as they applied to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the USEPA *Region I, New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, December 1996.

The samples were processed and the results were reported under two sample delivery groups (SDGs). Table 1 provides a sample submittal list with the field IDs cross-referenced with the Accutest IDs.

Table 1 - Sample Submittals
National Grid / Equity Samples

Field ID	Laboratory ID	Matrix	Date Sampled
T5-SB7 (10-11)	MC34323-1/1A	Soil	10/13/2014 13:27
T5-SB7 (11.5-15)	MC34323-2/2A	Soil	10/13/2014 13:27
T5-SB2 (18-19)	MC30823-1/1A	Soil	10/15/2014 15:35
T5-SB2 (21.5-25)	MC30823-2/2A	Soil	10/15/2014 15:44

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, matrix spike/matrix spike duplicates (MS/MSD), surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

MC34323

Laboratory Control Sample Recoveries (pp. 37-40): The LCS MSK2609-BS recoveries for bromomethane, carbon tetrachloride, vinyl acetate and vinyl chloride were greater than the upper quality control limits. Bromomethane, carbon tetrachloride, vinyl acetate and vinyl chloride were not detected in associated medium-level soil (MLS) sample T5-SB7 (10-11). No data qualification was required in response to the high method bias.

The LCS MSM2446-BS recovery for acrolein was greater than the upper quality control limit. Acrolein was not detected in associated low-level soil (LLS) sample T5-SB7 (11.5-15). No data qualification was required in response to the high method bias.

Matrix spike Recoveries and RPDs (pp. 43-44): An MS/MSD analysis was performed on sample T5-SB7 (10-11). The matrix spike recoveries for chloroethane and vinyl chloride were greater than the upper advisory limits. Chloroethane and vinyl chloride were not detected in associated MLS sample T5-SB7 (10-11). No data qualification was required in response to the high bias attributable to matrix effects.

The T5-SB7 (10-11) MS and MSD recoveries for vinyl acetate were less than the lower advisory limits. The MSD recovery was less than 20%, at 12%. The relative percent difference between the MS and MSD recoveries for vinyl acetate was greater than the maximum advisory limit. The non-detect vinyl acetate result for sample T5-SB7 (10-11) was qualified “UJ,” as an estimate, because of low bias attributable to matrix interference.

MC34374

Laboratory Control Sample Recoveries (pp. 37-38): The LCS MSK2610-BS recoveries for bromomethane, carbon tetrachloride, vinyl acetate and vinyl chloride were greater than the upper quality control limits. Bromomethane, carbon tetrachloride, vinyl acetate and vinyl chloride were not detected in associated MLS sample T5-SB2 (18-19). No data qualification was required in response to the high method bias.

2.0 Semivolatile Organic Compounds

MC34323

Blank Contamination (pp.67-69): Butyl benzyl phthalate and bis(2-ethylhexyl)phthalate were detected in the method blank OP40220-MB at concentrations less than the reporting limits. Butyl benzyl phthalate and bis(2-ethylhexyl)phthalate were not detected in associated samples T5-SB7 (10-11) and T5-SB7 (11.5-15). No data qualifications were required.

MC34374

Blank Contamination (pp. 64-66): Naphthalene was detected in the method blank OP40244-MB at a concentration less than the reporting limit. The naphthalene result for sample T5-SB2 (21.5-25) was greater than the reporting limit but less than five times the blank level corrected for preparation volumes. The positive naphthalene result for sample T5-SB2 (21.5-25) was qualified "J," as biased high because of laboratory contamination. The naphthalene result for sample T5-SB2 (18-19) was greater than five times the blank level and did not require qualification.

Laboratory Control Sample Recoveries (pp. 67-69): The LCS OP40244-BS recovery for 3,3'-dichlorobenzidine was greater than the upper quality control limit. 3,3'-Dichlorobenzidine was not detected in associated samples T5-SB2 (21.5-25) and T5-SB2 (18-19). No data qualification was required in response to the high method bias.

Surrogate Recoveries (p. 73): Sample T5-SB2(18-19) required analysis at an initial 20-fold dilution and a subsequent 200-fold dilution to bring the target compound concentrations into the calibration range. The dilutions were high enough to dilute out the surrogates. The surrogate recoveries could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were necessary based on professional judgment.

3.0 Polychlorinated Biphenyls (PCBs)

MC34323

No data quality issues were noted. No data qualifications were required.

MC34374

Surrogate Recoveries: One or more surrogate recoveries for samples T5-SB2 (18-19) and T5-SB2 (21.5-25) were greater than the upper quality control limits because of matrix interference. No Aroclors were detected in samples T5-SB2 (18-19) and T5-SB2 (21.5-25). No data qualifications were required.

4.0 Petroleum Hydrocarbons

MC34323 and MC34374

No data quality issues were noted. No data qualifications were required.

MC34323R

Blank Contamination (pp. 22-24): Styrene, C2-naphthalenes, C3-naphthalenes and C4-naphthalenes were detected in the D5739-06/8270C method blank OP40486-MB. The styrene, C2-naphthalenes, C3-naphthalenes and C4-naphthalenes results for associated sample T5-SB7 (10-11) were positive and greater than five times the blank levels. No data qualifications were required.

Holding Time (pp. 17-18): The ASTM D5739-06/8270C organic extraction for sample T5-SB7 (10-11) was performed three days beyond the 14-day recommended holding time. All positive and non-detect D5739-06/8270C results for sample T5-SB7 (10-11) were qualified "J/UJ," as estimates, biased low because the holding time was exceeded.

The ASTM 3328-06 organic extraction for sample T5-SB7 (10-11) was performed three days beyond the 14-day recommended holding time. All positive and non-detect ASTM 3328-06 results for sample T5-SB7 (10-11) were qualified "J/UJ," as estimates, biased low because the holding time was exceeded.

Laboratory Duplicate Precision (pp. 30-34): A laboratory duplicate analysis was performed on sample T5-SB7 (10-11). The relative percent differences (RPDs) between the original and duplicate analyses were greater than the maximum quality control limits for C1-benzene, C3-benzene, toluene, isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene and 18a(H)&18b(H)-Oleananes. The C1-benzene, C3-benzene, toluene, isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene and 18a(H)&18b(H)-Oleananes results for sample T5-SB7 (10-11) were positive and were qualified "J," as estimated concentrations, because of method imprecision and/or sample heterogeneity.

5.0 Total Metals

MC34323 and MC34374

No data quality issues were noted. No data qualifications were required.

6.0 Notes

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8015	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB86391.D	1	10/16/14	AF	n/a	n/a	GAB4622
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	7.05 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	49.9	11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		61-116%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846-8015 SW846 3546	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC68508.D	1	10/16/14	NK	10/15/14	OP40221	GBC3742
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	775	21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8260C	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K82748.D	1	10/21/14	JM	n/a	n/a	MSK2609
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.95 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1500	ug/kg	
107-02-8	Acrolein	ND	3800	ug/kg	
107-13-1	Acrylonitrile	ND	3800	ug/kg	
71-43-2	Benzene	121	76	ug/kg	
75-27-4	Bromodichloromethane	ND	300	ug/kg	
75-25-2	Bromoform	ND	300	ug/kg	
74-83-9	Bromomethane	ND	300	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1500	ug/kg	
75-15-0	Carbon disulfide	ND	760	ug/kg	
56-23-5	Carbon tetrachloride	ND	300	ug/kg	
108-90-7	Chlorobenzene	ND	300	ug/kg	
75-00-3	Chloroethane	ND	760	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	760	ug/kg	
67-66-3	Chloroform	ND	300	ug/kg	
74-87-3	Chloromethane	ND	760	ug/kg	
124-48-1	Dibromochloromethane	ND	300	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	300	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	300	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	ug/kg	
75-34-3	1,1-Dichloroethane	ND	300	ug/kg	
107-06-2	1,2-Dichloroethane	ND	300	ug/kg	
75-35-4	1,1-Dichloroethene	ND	300	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	300	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	300	ug/kg	
78-87-5	1,2-Dichloropropane	ND	300	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	300	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	300	ug/kg	
100-41-4	Ethylbenzene	ND	300	ug/kg	
591-78-6	2-Hexanone	ND	1500	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	760	ug/kg	
75-09-2	Methylene chloride	ND	300	ug/kg	
100-42-5	Styrene	ND	760	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8260C	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	300	ug/kg	
127-18-4	Tetrachloroethene	ND	300	ug/kg	
108-88-3	Toluene	ND	760	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	300	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	300	ug/kg	
79-01-6	Trichloroethene	ND	300	ug/kg	
75-69-4	Trichlorofluoromethane	ND	300	ug/kg	
108-05-4	Vinyl Acetate	ND UJ	760	ug/kg	MS.
75-01-4	Vinyl chloride	ND	300	ug/kg	
1330-20-7	Xylene (total)	ND	300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R40372.D	5	10/17/14	WK	10/15/14	OP40220	MSR1486
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1700	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3300	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3300	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	6700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3300	ug/kg	
95-48-7	2-Methylphenol	ND	3300	ug/kg	
	3&4-Methylphenol	ND	3300	ug/kg	
88-75-5	2-Nitrophenol	ND	3300	ug/kg	
100-02-7	4-Nitrophenol	ND	6700	ug/kg	
87-86-5	Pentachlorophenol	ND	3300	ug/kg	
108-95-2	Phenol	ND	1700	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3300	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3300	ug/kg	
83-32-9	Acenaphthene	1440	670	ug/kg	
208-96-8	Acenaphthylene	2180	670	ug/kg	
120-12-7	Anthracene	3450	670	ug/kg	
56-55-3	Benzo(a)anthracene	8290	670	ug/kg	
50-32-8	Benzo(a)pyrene	9550	670	ug/kg	
205-99-2	Benzo(b)fluoranthene	11800	670	ug/kg	
191-24-2	Benzo(g,h,i)perylene	7230	670	ug/kg	
207-08-9	Benzo(k)fluoranthene	3620	670	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1700	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1700	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1700	ug/kg	
106-47-8	4-Chloroaniline	ND	3300	ug/kg	
86-74-8	Carbazole	1850	670	ug/kg	
218-01-9	Chrysene	8100	670	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1700	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1700	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1700	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1700	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1700	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1700	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3300	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1680	670	ug/kg	
132-64-9	Dibenzofuran	1290	670	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1700	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1700	ug/kg	
84-66-2	Diethyl phthalate	ND	1700	ug/kg	
131-11-3	Dimethyl phthalate	ND	1700	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1700	ug/kg	
206-44-0	Fluoranthene	15500	670	ug/kg	
86-73-7	Fluorene	2110	670	ug/kg	
118-74-1	Hexachlorobenzene	ND	1700	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1700	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3300	ug/kg	
67-72-1	Hexachloroethane	ND	1700	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7600	670	ug/kg	
78-59-1	Isophorone	ND	1700	ug/kg	
91-57-6	2-Methylnaphthalene	2020	670	ug/kg	
88-74-4	2-Nitroaniline	ND	3300	ug/kg	
99-09-2	3-Nitroaniline	ND	3300	ug/kg	
100-01-6	4-Nitroaniline	ND	3300	ug/kg	
91-20-3	Naphthalene	3240	670	ug/kg	
98-95-3	Nitrobenzene	ND	1700	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1700	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1700	ug/kg	
85-01-8	Phenanthrene	14200	670	ug/kg	
129-00-0	Pyrene	14600	670	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		30-130%
4165-62-2	Phenol-d5	65%		30-130%
118-79-6	2,4,6-Tribromophenol	70%		30-130%
4165-60-0	Nitrobenzene-d5	60%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8082A SW846 3546	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK41559.D	1	10/16/14	NK	10/15/14	OP40222	GBK1342
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	44	ug/kg	
11104-28-2	Aroclor 1221	ND	44	ug/kg	
11141-16-5	Aroclor 1232	ND	44	ug/kg	
53469-21-9	Aroclor 1242	ND	44	ug/kg	
12672-29-6	Aroclor 1248	ND	44	ug/kg	
11097-69-1	Aroclor 1254	ND	44	ug/kg	
11096-82-5	Aroclor 1260	ND	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		30-150%
877-09-8	Tetrachloro-m-xylene	81%		30-150%
2051-24-3	Decachlorobiphenyl	123%		30-150%
2051-24-3	Decachlorobiphenyl	142%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
		Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4410	23	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 1.1	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Arsenic	20.9	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Barium	99.3	5.7	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Beryllium	< 0.45	0.45	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.45	0.45	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Calcium	14100	570	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Chromium	21.0	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Cobalt	6.1	5.7	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Copper	277	2.8	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Iron	11400	11	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Lead	215	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Magnesium	3020	570	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Manganese	150	1.7	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.46	0.039	mg/kg	1	10/17/14	10/17/14	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	14.0	4.5	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Potassium	576	570	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Selenium	1.6	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 570	570	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Vanadium	18.6	1.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Zinc	153	2.3	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA17617
(2) Instrument QC Batch: MA17620
(3) Prep QC Batch: MP23743
(4) Prep QC Batch: MP23752

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8015	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB86397.D	1	10/16/14	AF	n/a	n/a	GAB4622
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.78 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	18	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		61-116%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846-8015 SW846 3546	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC68509.D	1	10/16/14	NK	10/15/14	OP40221	GBC3742
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	ND	27	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8260C	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M69010.D	1	10/20/14	AMY	n/a	n/a	MSM2446
Run #2							

	Initial Weight	Final Volume
Run #1	3.92 g	5.0 ml
Run #2		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	22	ug/kg	
107-02-8	Acrolein	ND	54	ug/kg	
107-13-1	Acrylonitrile	ND	54	ug/kg	
71-43-2	Benzene	1.1	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	4.3	ug/kg	
75-25-2	Bromoform	ND	4.3	ug/kg	
74-83-9	Bromomethane	ND	4.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	22	ug/kg	
75-15-0	Carbon disulfide	11.3	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.3	ug/kg	
108-90-7	Chlorobenzene	ND	4.3	ug/kg	
75-00-3	Chloroethane	ND	11	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	11	ug/kg	
67-66-3	Chloroform	ND	4.3	ug/kg	
74-87-3	Chloromethane	ND	11	ug/kg	
124-48-1	Dibromochloromethane	ND	4.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.3	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.3	ug/kg	
100-41-4	Ethylbenzene	ND	4.3	ug/kg	
591-78-6	2-Hexanone	ND	22	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	11	ug/kg	
75-09-2	Methylene chloride	ND	4.3	ug/kg	
100-42-5	Styrene	ND	11	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8260C	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.3	ug/kg	
127-18-4	Tetrachloroethene	ND	4.3	ug/kg	
108-88-3	Toluene	ND	11	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.3	ug/kg	
79-01-6	Trichloroethene	ND	4.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.3	ug/kg	
108-05-4	Vinyl Acetate	ND	11	ug/kg	
75-01-4	Vinyl chloride	ND	4.3	ug/kg	
1330-20-7	Xylene (total)	ND	4.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		70-130%
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R40370.D	1	10/17/14	WK	10/15/14	OP40220	MSR1486
Run #2							

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	410	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	820	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	820	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	820	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	820	ug/kg	
95-48-7	2-Methylphenol	ND	820	ug/kg	
	3&4-Methylphenol	ND	820	ug/kg	
88-75-5	2-Nitrophenol	ND	820	ug/kg	
100-02-7	4-Nitrophenol	ND	1600	ug/kg	
87-86-5	Pentachlorophenol	ND	820	ug/kg	
108-95-2	Phenol	ND	410	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	820	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	820	ug/kg	
83-32-9	Acenaphthene	ND	160	ug/kg	
208-96-8	Acenaphthylene	ND	160	ug/kg	
120-12-7	Anthracene	ND	160	ug/kg	
56-55-3	Benzo(a)anthracene	ND	160	ug/kg	
50-32-8	Benzo(a)pyrene	ND	160	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	160	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	160	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	160	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	410	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	ug/kg	
91-58-7	2-Chloronaphthalene	ND	410	ug/kg	
106-47-8	4-Chloroaniline	ND	820	ug/kg	
86-74-8	Carbazole	ND	160	ug/kg	
218-01-9	Chrysene	ND	160	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	410	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	410	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	410	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	410	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	410	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	410	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	410	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	820	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	820	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	410	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	160	ug/kg	
132-64-9	Dibenzofuran	ND	160	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	ug/kg	
84-66-2	Diethyl phthalate	ND	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	ug/kg	
206-44-0	Fluoranthene	ND	160	ug/kg	
86-73-7	Fluorene	ND	160	ug/kg	
118-74-1	Hexachlorobenzene	ND	410	ug/kg	
87-68-3	Hexachlorobutadiene	ND	410	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	820	ug/kg	
67-72-1	Hexachloroethane	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	160	ug/kg	
78-59-1	Isophorone	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	160	ug/kg	
88-74-4	2-Nitroaniline	ND	820	ug/kg	
99-09-2	3-Nitroaniline	ND	820	ug/kg	
100-01-6	4-Nitroaniline	ND	820	ug/kg	
91-20-3	Naphthalene	ND	160	ug/kg	
98-95-3	Nitrobenzene	ND	410	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	410	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	410	ug/kg	
85-01-8	Phenanthrene	ND	160	ug/kg	
129-00-0	Pyrene	ND	160	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		30-130%
4165-62-2	Phenol-d5	79%		30-130%
118-79-6	2,4,6-Tribromophenol	92%		30-130%
4165-60-0	Nitrobenzene-d5	71%		30-130%
321-60-8	2-Fluorobiphenyl	80%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	88%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	SW846 8082A SW846 3546	Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK41560.D	1	10/16/14	NK	10/15/14	OP40222	GBK1342
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	56	ug/kg	
11104-28-2	Aroclor 1221	ND	56	ug/kg	
11141-16-5	Aroclor 1232	ND	56	ug/kg	
53469-21-9	Aroclor 1242	ND	56	ug/kg	
12672-29-6	Aroclor 1248	ND	56	ug/kg	
11097-69-1	Aroclor 1254	ND	56	ug/kg	
11096-82-5	Aroclor 1260	ND	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		30-150%
877-09-8	Tetrachloro-m-xylene	72%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%
2051-24-3	Decachlorobiphenyl	86%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (11.5-15)		
Lab Sample ID:	MC34323-2A	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
		Percent Solids:	58.9
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	18700	28	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 1.4	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Arsenic	8.8	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Barium	36.4	7.0	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Beryllium	1.0	0.56	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Calcium	3800	700	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Chromium	38.5	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Cobalt	11.1	7.0	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Copper	13.6	3.5	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Iron	38600	70	mg/kg	5	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Lead	13.9	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Magnesium	8100	700	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Manganese	408	2.1	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.039	0.039	mg/kg	1	10/17/14	10/17/14	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	27.8	5.6	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Potassium	4290	700	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 1.4	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.70	0.70	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Sodium	3600	700	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.4	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Vanadium	40.1	1.4	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]
Zinc	82.0	2.8	mg/kg	1	10/16/14	10/17/14	EAL	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA17617
(2) Instrument QC Batch: MA17620
(3) Prep QC Batch: MP23743
(4) Prep QC Batch: MP23752

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
Run #2 [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

	Initial Weight	Final Volume
Run #1	4.99 g	2.0 ml
Run #2	4.99 g	2.0 ml

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	284	5.4	ug/kg	J HT exceeded (all/result)
	C1-Benzene	231	5.4	ug/kg	RPD
	C2-Benzenes	725	5.4	ug/kg	
	C3-Benzenes	1650	5.4	ug/kg	RPD
	C4-Benzenes	6980	5.4	ug/kg	
	C5-Benzenes	5260	5.4	ug/kg	
108-88-3	Toluene	298	5.4	ug/kg	RPD
100-41-4	Ethylbenzene	207	5.4	ug/kg	
	m,p-Xylene	675	5.4	ug/kg	
100-42-5	Styrene	230	5.4	ug/kg	
95-47-6	o-Xylene	165	5.4	ug/kg	
98-82-8	Isopropylbenzene	253	5.4	ug/kg	RPD
103-65-1	n-Propylbenzene	845	5.4	ug/kg	RPD
108-67-8	1,3,5-Trimethylbenzene	288	5.4	ug/kg	
526-73-8	1,2,3-Trimethylbenzene	186	5.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	495	5.4	ug/kg	RPD
98-06-6	t-Butylbenzene	7.3	5.4	ug/kg	
135-98-8	sec-Butylbenzene	216	5.4	ug/kg	RPD
99-87-6	p-Isopropyltoluene	45.9	5.4	ug/kg	
104-51-8	n-Butylbenzene	742	5.4	ug/kg	
493-02-7	trans-Decalin	364	5.4	ug/kg	
493-01-6	cis-Decalin	95.0	5.4	ug/kg	
11095-43-5	Benzo(b)thiophene	ND	5.4	ug/kg	
91-20-3	Naphthalene	504	5.4	ug/kg	
91-57-6	2-Methylnaphthalene	300	5.4	ug/kg	
90-12-0	1-Methylnaphthalene	802	5.4	ug/kg	
	C1-Naphthalenes	700	5.4	ug/kg	
	C2-Naphthalenes	1230	5.4	ug/kg	
	C3-Naphthalenes	945	5.4	ug/kg	
	C4-Naphthalenes	566	5.4	ug/kg	
92-52-4	Biphenyl	58.0	5.4	ug/kg	
208-96-8	Acenaphthylene	791	5.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	441	5.4	ug/kg	J holding time exceeded.
132-64-9	Dibenzofuran	341	5.4	ug/kg	
86-73-7	Fluorene	530	5.4	ug/kg	
	C1-Fluorenes	341	5.4	ug/kg	
	C2-Fluorenes	339	5.4	ug/kg	
	C3-Fluorenes	409	5.4	ug/kg	
132-65-0	Dibenzothiophene	275	5.4	ug/kg	
	C1-Dibenzothiophenes	315	5.4	ug/kg	
	C2-Dibenzothiophenes	366	5.4	ug/kg	
	C3-Dibenzothiophenes	263	5.4	ug/kg	
	C4-Dibenzothiophenes	133	5.4	ug/kg	
85-01-8	Phenanthrene	3790	5.4	ug/kg	
120-12-7	Anthracene	1210	5.4	ug/kg	
	C1-Phenanthrenes/Anthracene	2050	5.4	ug/kg	
	C2-Phenanthrenes/Anthracene	1250	5.4	ug/kg	
	C3-Phenanthrenes/Anthracene	546	5.4	ug/kg	
	C4-Phenanthrenes/Anthracene	208	5.4	ug/kg	
483-65-8	Retene	115	5.4	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	210	5.4	ug/kg	
206-44-0	Fluoranthene	3290	5.4	ug/kg	
129-00-0	Pyrene	3140	5.4	ug/kg	
	C1-Fluoranthenes/Pyrenes	1730	5.4	ug/kg	
	C2-Fluoranthenes/Pyrenes	912	5.4	ug/kg	
	C3-Fluoranthenes/Pyrenes	410	5.4	ug/kg	
243-17-4	Benzo(b)fluorene	186	5.4	ug/kg	
205-12-9	Benzo(c)fluorene	92.6	5.4	ug/kg	
3442-78-2	2-Methylpyrene	244	5.4	ug/kg	
3353-12-6	4-Methylpyrene	211	5.4	ug/kg	
2381-21-7	1-Methylpyrene	165	5.4	ug/kg	
56-55-3	Benzo(a)anthracene	1570	5.4	ug/kg	
218-01-9	Chrysene	1730	5.4	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	1040	5.4	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	468	5.4	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	267	5.4	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	137	5.4	ug/kg	
205-99-2	Benzo(b)fluoranthene	1210	5.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	1210	5.4	ug/kg	
192-97-2	Benzo(e)pyrene	1160	5.4	ug/kg	
50-32-8	Benzo(a)pyrene	1660	5.4	ug/kg	
198-55-0	Perylene	383	5.4	ug/kg	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	974 J	5.4	ug/kg	holding time exceeded
53-70-3	Dibenzo(a,h)anthracene	339	5.4	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1090	5.4	ug/kg	
191-07-1	Coronene	313	5.4	ug/kg	
	C23 Tricyclic Terpane	24.4 b	5.4	ug/kg	
	C24 Tricyclic Terpane	19.9 b	5.4	ug/kg	
	C25 Tricyclic Terpane-22S	11.1 b	5.4	ug/kg	
	C25 Tricyclic Terpane-22R	11.1 b	5.4	ug/kg	
	C24 Tetracyclic Terpane	11.6 b	5.4	ug/kg	
	C26 Tricyclic Terpane-22S	11.1 b	5.4	ug/kg	
	C26 Tricyclic Terpane-22R	11.4 b	5.4	ug/kg	
	C28 Tricyclic Terpane-22S	14.0 b	5.4	ug/kg	
	C28 Tricyclic Terpane-22R	14.9 b	5.4	ug/kg	
	C29 Tricyclic Terpane-22S	14.7 b	5.4	ug/kg	
	C29 Tricyclic Terpane-22R	14.0 b	5.4	ug/kg	
	18a-22,29,30-Trisnorneohopan	23.3 b	5.4	ug/kg	
	C30 Tricyclic Terpane-22S	20.2 b	5.4	ug/kg	
	C30 Tricyclic Terpane-22R	27.0 b	5.4	ug/kg	
	17a(H)-22,29,30-Trisnorhopan	55.7 b	5.4	ug/kg	
	30-Norhopane	184 b	5.4	ug/kg	
	18a(H)-30-Norneohopane-C29	39.9 b	5.4	ug/kg	
	17a(H)-Diahopane	11.9 b	5.4	ug/kg	
	30-Normoretane	26.9 b	5.4	ug/kg	
	18a(H)&18b(H)-Oleananes	19.6 b	5.4	ug/kg	RPD
	Hopane	237 b	5.4	ug/kg	
	Moretane	70.0 b	5.4	ug/kg	
	30-Homohopane-22S	103 b	5.4	ug/kg	
	30-Homohopane-22R	90.4 b	5.4	ug/kg	
559-65-9	Gammacerane	ND b	5.4	ug/kg	
	30,31-Bishomohopane-22S	75.4 b	5.4	ug/kg	
	30,31-Bishomohopane-22R	54.9 b	5.4	ug/kg	
	30,31-Trishomohopane-22S	49.9 b	5.4	ug/kg	
	30,31-Trishomohopane-22R	35.1 b	5.4	ug/kg	
	Tetrakishomohopane-22S	34.4 b	5.4	ug/kg	
	Tetrakishomohopane-22R	26.4 b	5.4	ug/kg	
	Pentakishomohopane-22S	39.8 b	5.4	ug/kg	
	Pentakishomohopane-22R	23.9 b	5.4	ug/kg	
	13b(H),17a(H)-20S-Diacholest	29.5 b	5.4	ug/kg	
	13b(H),17a(H)-20R-Diacholest	14.4 b	5.4	ug/kg	
	13b,17a-20S-Methyldiacholest	9.5 b	5.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	14a(H),17a(H)-20S-Cholestane	79.2 b	5.4	ug/kg	J holding time was exceeded
	14b(H),17b(H)-20R-Cholestan	41.1 b	5.4	ug/kg	
	14b(H),17b(H)-20S-Cholestan	39.5 b	5.4	ug/kg	
	14a(H),17a(H)-20R-Cholestan	85.3 b	5.4	ug/kg	
	13b,17a-20R-Ethyldiacholesta	11.1 b	5.4	ug/kg	
	13a,17b-20S-Ethyldiacholestan	11.6 b	5.4	ug/kg	
	14a,17a-20S-Methylcholestane	36.3 b	5.4	ug/kg	
	14b,17b-20R-Methylcholestan	45.1 b	5.4	ug/kg	
	14b,17b-20S-Methylcholestane	59.3 b	5.4	ug/kg	
	14a,17a-20R-Methylcholestane	40.4 b	5.4	ug/kg	
	14a(H),17a(H)-20S-Ethylchole	62.9 b	5.4	ug/kg	
	14b(H),17b(H)-20R-Ethylchol	72.2 b	5.4	ug/kg	
	14b(H),17b(H)-20S-Ethylchole	57.7 b	5.4	ug/kg	
	14a(H),17a(H)-20R-Ethylchole	64.9 b	5.4	ug/kg	
75-74-1	Tetramethyl lead	ND	5.4	ug/kg	UJ
1762-26-1	Trimethylethyl lead	ND	5.4	ug/kg	UJ
1762-27-2	Dimethyldiethyl lead	ND	5.4	ug/kg	UJ
1762-28-3	Methyltriethyl lead	ND	5.4	ug/kg	UJ
78-00-2	Tetraethyl lead	388	5.4	ug/kg	J
	Organic Lead	388	5.4	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	72%		40-140%
1146-65-2	Naphthalene-d8	67%		40-140%
1517-22-2	Phenanthrene-d10	78%	74%	40-140%
	Perylene-d12	61%	66%	40-140%

(a) Sample extracted beyond recommended holding time.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BG47063.D	1	11/05/14	MEW	10/30/14	OP40485	GBG1787
Run #2							

	Initial Weight	Final Volume
Run #1	4.99 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	C-8	ND UJ	0.54	mg/kg	holding time exceeded.
	C-9	ND	0.54	mg/kg	
	C-10	ND	0.54	mg/kg	
	C-11	ND	0.54	mg/kg	
	C-12	ND	0.54	mg/kg	
	C-13	0.681 J	0.54	mg/kg	
3891-98-3	2,6,10-trimethyldodecane (138	0.769 J	0.54	mg/kg	
	C-14	ND UJ	0.54	mg/kg	
3891-99-4	2,6,10-trimethyltridecane (147	0.894 J	0.54	mg/kg	
	C-15	1.14 J	0.54	mg/kg	
	C-16	1.19 J	0.54	mg/kg	
3892-00-0	2,6,10-trimethylpentadecane (1	0.834 J	0.54	mg/kg	
	C-17	ND UJ	0.54	mg/kg	
1921-70-6	Pristane	1.58 J	0.54	mg/kg	
	C-18	0.635 J	0.54	mg/kg	
638-36-8	Phytane	0.599 J	0.54	mg/kg	
	C-19	ND UJ	0.54	mg/kg	
	C-20	ND	0.54	mg/kg	
	C-21	ND	0.54	mg/kg	
	C-22	ND	0.54	mg/kg	
	C-23	ND	0.54	mg/kg	
	C-24	ND	0.54	mg/kg	
	C-25	ND	0.54	mg/kg	
	C-26	ND	0.54	mg/kg	
	C-27	ND	0.54	mg/kg	
	C-28	ND	0.54	mg/kg	
	C-29	ND	0.54	mg/kg	
	C-30	ND	0.54	mg/kg	
	C-31	ND	0.54	mg/kg	
	C-32	ND	0.54	mg/kg	
	C-33	ND	0.54	mg/kg	
	C-34	ND	0.54	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB7 (10-11)		
Lab Sample ID:	MC34323-1R	Date Sampled:	10/13/14
Matrix:	SO - Soil	Date Received:	10/14/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	74.6
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

CAS No.	Compound	Result	RL	Units	Q
	C-35	ND UJ	0.54	mg/kg	Holding time exceeded.
	C-36	ND	0.54	mg/kg	
	C-37	ND	0.54	mg/kg	
	C-38	ND	0.54	mg/kg	
	C-39	ND	0.54	mg/kg	
	C-40	ND	0.54	mg/kg	
	TPH (C8-C40)	1150 J	54	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		40-140%

(a) Sample extracted beyond recommended holding time.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8015	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB86418.D	1	10/17/14	AF	n/a	n/a	GAB4624
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.72 g	10.0 ml	20.0 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	326	60	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	93%		61-116%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846-8015 SW846 3546	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BC68536.D	10	10/18/14	NK	10/16/14	OP40240	GBC3743
Run #2	BC68537.D	100	10/18/14	NK	10/16/14	OP40240	GBC3743

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2	15.1 g	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	38200 [b]	2300	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	111%	0% [c]	40-140%

(a) Confirmation run for surrogate recoveries.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8260C	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K82797.D	1	10/22/14	JM	n/a	n/a	MSK2610
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.63 g	10.0 ml	2.5 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	66000	ug/kg	
107-02-8	Acrolein	ND	170000	ug/kg	
107-13-1	Acrylonitrile	ND	170000	ug/kg	
71-43-2	Benzene	20300	3300	ug/kg	
75-27-4	Bromodichloromethane	ND	13000	ug/kg	
75-25-2	Bromoform	ND	13000	ug/kg	
74-83-9	Bromomethane	ND	13000	ug/kg	
78-93-3	2-Butanone (MEK)	ND	66000	ug/kg	
75-15-0	Carbon disulfide	ND	33000	ug/kg	
56-23-5	Carbon tetrachloride	ND	13000	ug/kg	
108-90-7	Chlorobenzene	ND	13000	ug/kg	
75-00-3	Chloroethane	ND	33000	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	33000	ug/kg	
67-66-3	Chloroform	ND	13000	ug/kg	
74-87-3	Chloromethane	ND	33000	ug/kg	
124-48-1	Dibromochloromethane	ND	13000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	13000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	13000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	13000	ug/kg	
75-34-3	1,1-Dichloroethane	ND	13000	ug/kg	
107-06-2	1,2-Dichloroethane	ND	13000	ug/kg	
75-35-4	1,1-Dichloroethene	ND	13000	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	13000	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	13000	ug/kg	
78-87-5	1,2-Dichloropropane	ND	13000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	13000	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	13000	ug/kg	
100-41-4	Ethylbenzene	292000	13000	ug/kg	
591-78-6	2-Hexanone	ND	66000	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	33000	ug/kg	
75-09-2	Methylene chloride	ND	13000	ug/kg	
100-42-5	Styrene	ND	33000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8260C	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	13000	ug/kg	
127-18-4	Tetrachloroethene	ND	13000	ug/kg	
108-88-3	Toluene	ND	33000	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	13000	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	13000	ug/kg	
79-01-6	Trichloroethene	ND	13000	ug/kg	
75-69-4	Trichlorofluoromethane	ND	13000	ug/kg	
108-05-4	Vinyl Acetate	ND	33000	ug/kg	
75-01-4	Vinyl chloride	ND	13000	ug/kg	
1330-20-7	Xylene (total)	311000	13000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	98%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F76946.D	20	10/20/14	WK	10/16/14	OP40244	MSF3370
Run #2	R40489.D	200	10/23/14	KD	10/16/14	OP40244	MSR1491

	Initial Weight	Final Volume
Run #1	20.9 g	2.0 ml
Run #2	20.9 g	2.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	13000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	26000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	26000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	26000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	52000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	26000	ug/kg	
95-48-7	2-Methylphenol	ND	26000	ug/kg	
	3&4-Methylphenol	ND	26000	ug/kg	
88-75-5	2-Nitrophenol	ND	26000	ug/kg	
100-02-7	4-Nitrophenol	ND	52000	ug/kg	
87-86-5	Pentachlorophenol	ND	26000	ug/kg	
108-95-2	Phenol	ND	13000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	26000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	26000	ug/kg	
83-32-9	Acenaphthene	561000 [a]	52000	ug/kg	
208-96-8	Acenaphthylene	98600	5200	ug/kg	
120-12-7	Anthracene	529000 [a]	52000	ug/kg	
56-55-3	Benzo(a)anthracene	358000	5200	ug/kg	
50-32-8	Benzo(a)pyrene	249000	5200	ug/kg	
205-99-2	Benzo(b)fluoranthene	119000	5200	ug/kg	
191-24-2	Benzo(g,h,i)perylene	79500	5200	ug/kg	
207-08-9	Benzo(k)fluoranthene	140000	5200	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	13000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	13000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	13000	ug/kg	
106-47-8	4-Chloroaniline	ND	26000	ug/kg	
86-74-8	Carbazole	ND	5200	ug/kg	
218-01-9	Chrysene	331000	5200	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	13000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	13000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	13000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	13000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	13000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	13000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	13000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	26000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	26000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	13000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	26900	5200	ug/kg	
132-64-9	Dibenzofuran	27800	5200	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	13000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	13000	ug/kg	
84-66-2	Diethyl phthalate	ND	13000	ug/kg	
131-11-3	Dimethyl phthalate	ND	13000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	13000	ug/kg	
206-44-0	Fluoranthene	667000 [a]	52000	ug/kg	
86-73-7	Fluorene	469000 [a]	52000	ug/kg	
118-74-1	Hexachlorobenzene	ND	13000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	13000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	26000	ug/kg	
67-72-1	Hexachloroethane	ND	13000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	71200	5200	ug/kg	
78-59-1	Isophorone	ND	13000	ug/kg	
91-57-6	2-Methylnaphthalene	688000 [a]	52000	ug/kg	
88-74-4	2-Nitroaniline	ND	26000	ug/kg	
99-09-2	3-Nitroaniline	ND	26000	ug/kg	
100-01-6	4-Nitroaniline	ND	26000	ug/kg	
91-20-3	Naphthalene	1280000 [a]	52000	ug/kg	
98-95-3	Nitrobenzene	ND	13000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	13000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	13000	ug/kg	
85-01-8	Phenanthrene	1800000 [a]	52000	ug/kg	
129-00-0	Pyrene	946000 [a]	52000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	13000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%	0% [b]	30-130%
4165-62-2	Phenol-d5	43%	44%	30-130%
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	30-130%
4165-60-0	Nitrobenzene-d5	50%	0% [b]	30-130%
321-60-8	2-Fluorobiphenyl	0% [b]	79%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	50%	0% [b]	30-130%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8082A SW846 3546	Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK41646.D	1	10/17/14	NK	10/16/14	OP40238	GBK1343
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	44	ug/kg	
11104-28-2	Aroclor 1221	ND	44	ug/kg	
11141-16-5	Aroclor 1232	ND	44	ug/kg	
53469-21-9	Aroclor 1242	ND	44	ug/kg	
12672-29-6	Aroclor 1248	ND	44	ug/kg	
11097-69-1	Aroclor 1254	ND	44	ug/kg	
11096-82-5	Aroclor 1260	ND	44	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	4039% [a]		30-150%
877-09-8	Tetrachloro-m-xylene	89%		30-150%
2051-24-3	Decachlorobiphenyl	134%		30-150%
2051-24-3	Decachlorobiphenyl	853% [a]		30-150%

(a) Outside control limits due to possible matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(18-19)		
Lab Sample ID:	MC34374-1A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
		Percent Solids:	73.2
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10800	26	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Antimony	2.0	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Arsenic	30.8	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Barium	100	6.4	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.55	0.52	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Cadmium	1.5	0.52	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Calcium	3590	640	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Chromium	29.6	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Cobalt	8.4	6.4	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Copper	397	3.2	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Iron	21100	13	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Lead	304	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Magnesium	3470	640	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Manganese	165	1.9	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Mercury	2.3	0.35	mg/kg	10	10/20/14	10/21/14	SA	SW846 7471B [2]	SW846 7471B [4]
Nickel	39.3	5.2	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Potassium	1820	640	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Selenium	4.5	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Silver	0.89	0.64	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Sodium	2200	640	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.3	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Vanadium	26.7	1.3	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Zinc	340	2.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA17622
(2) Instrument QC Batch: MA17624
(3) Prep QC Batch: MP23759
(4) Prep QC Batch: MP23760

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8015	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB86417.D	1	10/17/14	AF	n/a	n/a	GAB4624
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	3.51 g	10.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (VOA)	ND	28	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		61-116%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846-8015 SW846 3546	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BC68541.D	1	10/20/14	NK	10/16/14	OP40240	GBC3744
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (Semi-VOA)	106	27	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8260C	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M69056.D	1	10/22/14	AMY	n/a	n/a	MSM2448
Run #2							

	Initial Weight	Final Volume
Run #1	3.34 g	5.0 ml
Run #2		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	32.4	26	ug/kg	
107-02-8	Acrolein	ND	64	ug/kg	
107-13-1	Acrylonitrile	ND	64	ug/kg	
71-43-2	Benzene	ND	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	ug/kg	
75-25-2	Bromoform	ND	5.1	ug/kg	
74-83-9	Bromomethane	ND	5.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	ug/kg	
75-15-0	Carbon disulfide	167	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	ug/kg	
75-00-3	Chloroethane	ND	13	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	13	ug/kg	
67-66-3	Chloroform	ND	5.1	ug/kg	
74-87-3	Chloromethane	ND	13	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	ug/kg	
591-78-6	2-Hexanone	ND	26	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	ug/kg	
75-09-2	Methylene chloride	ND	5.1	ug/kg	
100-42-5	Styrene	ND	13	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8260C	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	ug/kg	
108-88-3	Toluene	ND	13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	ug/kg	
79-01-6	Trichloroethene	ND	5.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	ug/kg	
108-05-4	Vinyl Acetate	ND	13	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	ug/kg	
1330-20-7	Xylene (total)	ND	5.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F76947.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	420	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	850	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	850	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	850	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	850	ug/kg	
95-48-7	2-Methylphenol	ND	850	ug/kg	
	3&4-Methylphenol	ND	850	ug/kg	
88-75-5	2-Nitrophenol	ND	850	ug/kg	
100-02-7	4-Nitrophenol	ND	1700	ug/kg	
87-86-5	Pentachlorophenol	ND	850	ug/kg	
108-95-2	Phenol	1610	420	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	850	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	850	ug/kg	
83-32-9	Acenaphthene	ND	170	ug/kg	
208-96-8	Acenaphthylene	ND	170	ug/kg	
120-12-7	Anthracene	ND	170	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	420	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	ug/kg	
106-47-8	4-Chloroaniline	ND	850	ug/kg	
86-74-8	Carbazole	ND	170	ug/kg	
218-01-9	Chrysene	ND	170	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	420	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	420	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	420	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	850	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	850	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	420	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	ug/kg	
132-64-9	Dibenzofuran	ND	170	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	ug/kg	
84-66-2	Diethyl phthalate	ND	420	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	ug/kg	
206-44-0	Fluoranthene	ND	170	ug/kg	
86-73-7	Fluorene	ND	170	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	850	ug/kg	
67-72-1	Hexachloroethane	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	ug/kg	
78-59-1	Isophorone	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	297	170	ug/kg	
88-74-4	2-Nitroaniline	ND	850	ug/kg	
99-09-2	3-Nitroaniline	ND	850	ug/kg	
100-01-6	4-Nitroaniline	ND	850	ug/kg	
91-20-3	Naphthalene	996 J	420	ug/kg	~~B~~ MB
98-95-3	Nitrobenzene	ND	420	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	170	ug/kg	
129-00-0	Pyrene	ND	170	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		30-130%
4165-62-2	Phenol-d5	72%		30-130%
118-79-6	2,4,6-Tribromophenol	82%		30-130%
4165-60-0	Nitrobenzene-d5	64%		30-130%
321-60-8	2-Fluorobiphenyl	71%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8270D SW846 3546	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	80%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
Method:	SW846 8082A SW846 3546	Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK41647.D	1	10/17/14	NK	10/16/14	OP40238	GBK1343
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	56	ug/kg	
11104-28-2	Aroclor 1221	ND	56	ug/kg	
11141-16-5	Aroclor 1232	ND	56	ug/kg	
53469-21-9	Aroclor 1242	ND	56	ug/kg	
12672-29-6	Aroclor 1248	ND	56	ug/kg	
11097-69-1	Aroclor 1254	ND	56	ug/kg	
11096-82-5	Aroclor 1260	ND	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%		30-150%
877-09-8	Tetrachloro-m-xylene	117%		30-150%
2051-24-3	Decachlorobiphenyl	136%		30-150%
2051-24-3	Decachlorobiphenyl	159% [a]		30-150%

(a) Outside control limits due to possible matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T5-SB2(21.5-25)		
Lab Sample ID:	MC34374-2A	Date Sampled:	10/15/14
Matrix:	SO - Soil	Date Received:	10/16/14
		Percent Solids:	58.7
Project:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	16700	32	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Antimony	< 1.6	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Arsenic	10.6	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Barium	35.1	8.0	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Beryllium	0.85	0.64	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Cadmium	< 0.64	0.64	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Calcium	2150	800	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Chromium	38.8	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Cobalt	11.1	8.0	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Copper	13.1	4.0	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Iron	32800	16	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Lead	14.2	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Magnesium	6900	800	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Manganese	304	2.4	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Mercury	< 0.047	0.047	mg/kg	1	10/20/14	10/21/14	SA	SW846 7471B [2]	SW846 7471B [4]
Nickel	28.2	6.4	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Potassium	3730	800	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Selenium	< 1.6	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Silver	< 0.80	0.80	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Sodium	4910	800	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Thallium	< 1.6	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Vanadium	42.7	1.6	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]
Zinc	74.4	3.2	mg/kg	1	10/20/14	10/20/14	EAL	SW846 6010C [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA17622
(2) Instrument QC Batch: MA17624
(3) Prep QC Batch: MP23759
(4) Prep QC Batch: MP23760

RL = Reporting Limit

Appendix C

Support Documentation

Accutest Laboratories

Sample Summary

AECOM Environment

Job No: MC34323

Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY
Project No: 60137362

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC34323-1	10/13/14	13:27	JC	10/14/14	SO	Soil	T5-SB7 (10-11)
MC34323-1A	10/13/14	13:27	JC	10/14/14	SO	Soil	T5-SB7 (10-11)
MC34323-2	10/13/14	13:27	JC	10/14/14	SO	Soil	T5-SB7 (11.5-15)
MC34323-2A	10/13/14	13:27	JC	10/14/14	SO	Soil	T5-SB7 (11.5-15)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC34323

Client / Reporting Information

Company Name: AECOM
Street Address: 125 Broad Street
City: New York, State: NY, Zip: 10004
Project Contact: Pete Cox, E-mail: Pete.Cox@aecom.com
Phone #: 978-905-2168, Fax #:
Sampler(s) Name(s): J. Christoffel, Phone #: 631-871-0513

Project Information

Project Name: Equity - National Grid
Street: 300 Maspeth Ave
City: Brooklyn, State: NY
Project #: 60137362
Client Purchase Order #:
Project Manager: Pete Cox

Billing Information (If different from Report to): SAME
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260B	SVOCs 8270C	TPH (DRO + GRO) 8015	TAL Metals 6010	PCBs 8082A	PAHs + alkyl PAHs via 8270C SIM	n-Alkanes + isoprenoids (PRO Tests) including TPH	Petroleum biomarker compounds GC/MS SIM via 8270 m	LAB USE ONLY
-1	TS-SB7 (10-11)	1410 dh7B	10-13-14	13:27	JC	SO	7							1	X	X	X	X	X	X	X	X	X	2D, 1026, 261,
-2	TS-SB7 (11.5-15)	1408 dh7B	10-13-14	13:27	JC	SO	7							X	X	X	X	X	X	X	X	X	X	

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days — All other analysis
- [ ] 5 Day RUSH
- [X] 3 Day RUSH — TPH Analysis only
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available VIA Labtrk

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL T1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* Hold Analysis Pending TPH analysis. Use 80Z jar for GRO instead of Meth Kit. Meth JC

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Jennifer Christoffel	10-14-14 12:45PM	Courier (Benny) P. Jed	2 B C	10-14-14 2:10	2 B.C
3			3	4		4
5			5	Custody Seal #	Intact / Not intact	Preserved where applicable	On Ice	Cooler Temp.

On Ice: ☑ 1.7°C

5.1
5

MC34323: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC34323 **Client:** AECOM **Project:** EQUITY NAT GRID

Date / Time Received: 10/14/2014 9:00:00 PM **Delivery Method:** **Airbill #s:**

Cooler Temps (Initial/Adjusted): #1: (1.7/1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
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495 Technology Center West, Bldg One
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Marlborough, MA 01752
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MC34323: Chain of Custody
Page 2 of 2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AECOM Environment	**Job No**	MC34323
Site:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY	**Report Date**	10/21/2014 3:39:44 PM

2 Sample(s) were collected on 10/13/2014 and were received at Accutest on 10/14/2014 properly preserved, at 1.7 Deg. C and intact. These Samples received an Accutest job number of MC34323. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix SO **Batch ID:** MSK2609

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34323-1AMS, MC34323-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Bromomethane, Carbon tetrachloride are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Chloroethane, Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Vinyl Acetate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Vinyl Acetate are outside control limits for sample MC34323-1AMSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MSK2609-BS for Vinyl Acetate, Vinyl chloride: Outside control limits. Associated samples are non-detect for this compound.
- MC34323-1AMS/MSD for Vinyl chloride: Outside control limits. Associated samples are non-detect for this compound.

Matrix SO **Batch ID:** MSM2446

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34429-1MS, MC34429-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Acrolein are outside control limits. Blank Spike meets program technical requirements. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chloroethyl vinyl ether, Acetone, Bromomethane, Chlorobenzene, Chloroethane, Chloromethane, Ethylbenzene, Styrene, Tetrachloroethene, Trichlorofluoromethane, Vinyl chloride, Xylene (total) are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chloroethyl vinyl ether, Acetone, Chlorobenzene, Ethylbenzene, Styrene, Xylene (total), Trichlorofluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Chloroethane, Trichlorofluoromethane are outside control limits for sample MC34429-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix SO	Batch ID: OP40220

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34323-2AMS, MC34323-2AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP40220-MS/MSD Recovery(s) for 2,4-Dinitrophenol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Hexachlorocyclopentadiene are outside control limits for sample OP40220-MSD. High RPD due to possible matrix interference and/or sample heterogeneity.

Volatiles by GC By Method SW846 8015

Matrix SO	Batch ID: GAB4622

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34323-1MS, MC34323-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082A

Matrix SO	Batch ID: OP40222

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34327-1MS, MC34327-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015

Matrix SO	Batch ID: OP40221

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34330-1MS, MC34330-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix SO	Batch ID: MP23743

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34285-2MS, MC34285-2MSD, MC34285-2PS, MC34285-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity. Post spike within acceptable range.
- Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.
- MS/MSD Recovery(s) for Aluminum, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Aluminum are outside control limits for sample MP23743-S2. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD(s) for Serial Dilution for Selenium, Thallium are outside control limits for sample MP23743-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP23743-SD1 for Arsenic: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix SO	Batch ID: MP23752

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34357-3MS, MC34357-3MSD were used as the QC samples for metals.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix SO	Batch ID: GN48669

- Sample(s) MC34323-2DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC34323).

Blank Spike Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2609-BS	K82744.D	1	10/21/14	JM	n/a	n/a	MSK2609

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-1A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2770	111	70-130
107-02-8	Acrolein	12500	13000	104	70-130
107-13-1	Acrylonitrile	2500	1980	79	70-130
71-43-2	Benzene	2500	2520	101	70-130
75-27-4	Bromodichloromethane	2500	3120	125	70-130
75-25-2	Bromoform	2500	3170	127	70-130
74-83-9	Bromomethane	2500	3370	135* [a]	70-130
78-93-3	2-Butanone (MEK)	2500	2590	104	70-130
75-15-0	Carbon disulfide	2500	2640	106	70-130
56-23-5	Carbon tetrachloride	2500	3410	136* [a]	70-130
108-90-7	Chlorobenzene	2500	2550	102	70-130
75-00-3	Chloroethane	2500	3120	125	70-130
110-75-8	2-Chloroethyl vinyl ether	2500	2100	84	10-160
67-66-3	Chloroform	2500	2700	108	70-130
74-87-3	Chloromethane	2500	2840	114	70-130
124-48-1	Dibromochloromethane	2500	3010	120	70-130
95-50-1	1,2-Dichlorobenzene	2500	2510	100	70-130
541-73-1	1,3-Dichlorobenzene	2500	2470	99	70-130
106-46-7	1,4-Dichlorobenzene	2500	2470	99	70-130
75-34-3	1,1-Dichloroethane	2500	2500	100	70-130
107-06-2	1,2-Dichloroethane	2500	2640	106	70-130
75-35-4	1,1-Dichloroethene	2500	2410	96	70-130
156-59-2	cis-1,2-Dichloroethene	2500	2410	96	70-130
156-60-5	trans-1,2-Dichloroethene	2500	2450	98	70-130
78-87-5	1,2-Dichloropropane	2500	2560	102	70-130
10061-01-5	cis-1,3-Dichloropropene	2500	2770	111	70-130
10061-02-6	trans-1,3-Dichloropropene	2500	3030	121	70-130
100-41-4	Ethylbenzene	2500	2610	104	70-130
591-78-6	2-Hexanone	2500	2040	82	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2080	83	70-130
75-09-2	Methylene chloride	2500	2290	92	70-130
100-42-5	Styrene	2500	2620	105	70-130
79-34-5	1,1,2,2-Tetrachloroethane	2500	2200	88	70-130
127-18-4	Tetrachloroethene	2500	2680	107	70-130
108-88-3	Toluene	2500	2620	105	70-130
71-55-6	1,1,1-Trichloroethane	2500	2960	118	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2609-BS	K82744.D	1	10/21/14	JM	n/a	n/a	MSK2609

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-1A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-00-5	1,1,2-Trichloroethane	2500	2540	102	70-130
79-01-6	Trichloroethene	2500	2770	111	70-130
75-69-4	Trichlorofluoromethane	2500	1920	77	70-130
108-05-4	Vinyl Acetate	2500	4140	166* [b]	70-130
75-01-4	Vinyl chloride	2500	4380	175* [b]	70-130
1330-20-7	Xylene (total)	7500	7900	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	70-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	93%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2446-BS	M68995.D	1	10/20/14	AMY	n/a	n/a	MSM2446

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-2A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	50.8	102	70-130
107-02-8	Acrolein	250	339	136* [a]	70-130
107-13-1	Acrylonitrile	50	45.9	92	70-130
71-43-2	Benzene	50	43.2	86	70-130
75-27-4	Bromodichloromethane	50	48.4	97	70-130
75-25-2	Bromoform	50	61.0	122	70-130
74-83-9	Bromomethane	50	49.7	99	70-130
78-93-3	2-Butanone (MEK)	50	51.0	102	70-130
75-15-0	Carbon disulfide	50	38.9	78	70-130
56-23-5	Carbon tetrachloride	50	45.3	91	70-130
108-90-7	Chlorobenzene	50	51.3	103	70-130
75-00-3	Chloroethane	50	59.5	119	70-130
110-75-8	2-Chloroethyl vinyl ether	50	44.9	90	10-160
67-66-3	Chloroform	50	43.8	88	70-130
74-87-3	Chloromethane	50	53.5	107	70-130
124-48-1	Dibromochloromethane	50	57.0	114	70-130
95-50-1	1,2-Dichlorobenzene	50	51.8	104	70-130
541-73-1	1,3-Dichlorobenzene	50	51.6	103	70-130
106-46-7	1,4-Dichlorobenzene	50	51.2	102	70-130
75-34-3	1,1-Dichloroethane	50	44.6	89	70-130
107-06-2	1,2-Dichloroethane	50	47.9	96	70-130
75-35-4	1,1-Dichloroethene	50	39.7	79	70-130
156-59-2	cis-1,2-Dichloroethene	50	44.6	89	70-130
156-60-5	trans-1,2-Dichloroethene	50	43.3	87	70-130
78-87-5	1,2-Dichloropropane	50	48.1	96	70-130
10061-01-5	cis-1,3-Dichloropropene	50	50.1	100	70-130
10061-02-6	trans-1,3-Dichloropropene	50	52.6	105	70-130
100-41-4	Ethylbenzene	50	47.3	95	70-130
591-78-6	2-Hexanone	50	57.6	115	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	48.3	97	70-130
75-09-2	Methylene chloride	50	41.2	82	70-130
100-42-5	Styrene	50	48.7	97	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	49.5	99	70-130
127-18-4	Tetrachloroethene	50	51.0	102	70-130
108-88-3	Toluene	50	46.7	93	70-130
71-55-6	1,1,1-Trichloroethane	50	42.4	85	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2446-BS	M68995.D	1	10/20/14	AMY	n/a	n/a	MSM2446

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-2A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-00-5	1,1,2-Trichloroethane	50	48.3	97	70-130
79-01-6	Trichloroethene	50	44.3	89	70-130
75-69-4	Trichlorofluoromethane	50	50.8	102	70-130
108-05-4	Vinyl Acetate	50	44.0	88	70-130
75-01-4	Vinyl chloride	50	51.7	103	70-130
1330-20-7	Xylene (total)	150	152	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	81%	70-130%
2037-26-5	Toluene-D8	84%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34323-1AMS	K82750.D	1	10/21/14	JM	n/a	n/a	MSK2609
MC34323-1AMSD	K82751.D	1	10/21/14	JM	n/a	n/a	MSK2609
MC34323-1A	K82748.D	1	10/21/14	JM	n/a	n/a	MSK2609

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-1A

CAS No.	Compound	MC34323-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		7620	8810	116	7620	8260	108	6	70-130/30
107-02-8	Acrolein	ND		38100	30100	79	38100	26500	70	13	70-130/30
107-13-1	Acrylonitrile	ND		7620	5580	73	7620	5900	77	6	70-130/30
71-43-2	Benzene	121		7620	7290	94	7620	7300	94	0	70-130/30
75-27-4	Bromodichloromethane	ND		7620	8900	117	7620	8980	118	1	70-130/30
75-25-2	Bromoform	ND		7620	9230	121	7620	9350	123	1	70-130/30
74-83-9	Bromomethane	ND		7620	9390	123	7620	9610	126	2	70-130/30
78-93-3	2-Butanone (MEK)	ND		7620	7460	98	7620	7400	97	1	70-130/30
75-15-0	Carbon disulfide	ND		7620	7030	92	7620	7290	96	4	70-130/30
56-23-5	Carbon tetrachloride	ND		7620	9490	125	7620	9540	125	1	70-130/30
108-90-7	Chlorobenzene	ND		7620	7600	100	7620	7650	100	1	70-130/30
75-00-3	Chloroethane	ND		7620	10400	136* [a]	7620	8690	114	18	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		7620	6320	83	7620	6480	85	3	10-160/30
67-66-3	Chloroform	ND		7620	7490	98	7620	7650	100	2	70-130/30
74-87-3	Chloromethane	ND		7620	7890	104	7620	8380	110	6	70-130/30
124-48-1	Dibromochloromethane	ND		7620	8870	116	7620	9010	118	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		7620	7280	96	7620	7390	97	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		7620	7310	96	7620	7270	95	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		7620	7260	95	7620	7230	95	0	70-130/30
75-34-3	1,1-Dichloroethane	ND		7620	6980	92	7620	7230	95	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		7620	7770	102	7620	7840	103	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		7620	6680	88	7620	6790	89	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		7620	6730	88	7620	7040	92	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		7620	6840	90	7620	6990	92	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		7620	7160	94	7620	7070	93	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		7620	7790	102	7620	7790	102	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		7620	8530	112	7620	8560	112	0	70-130/30
100-41-4	Ethylbenzene	127		7620	7900	102	7620	7830	101	1	70-130/30
591-78-6	2-Hexanone	ND		7620	6490	85	7620	6910	91	6	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		7620	6570	86	7620	6750	89	3	70-130/30
75-09-2	Methylene chloride	ND		7620	6320	83	7620	6600	87	4	70-130/30
100-42-5	Styrene	ND		7620	7710	101	7620	7800	102	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		7620	6220	82	7620	5760	76	8	70-130/30
127-18-4	Tetrachloroethene	176		7620	8160	105	7620	8190	105	0	70-130/30
108-88-3	Toluene	83.4		7620	7440	97	7620	7390	96	1	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		7620	7990	105	7620	8160	107	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC34323-1AMS	K82750.D	1	10/21/14	JM	n/a	n/a	MSK2609
MC34323-1AMSD	K82751.D	1	10/21/14	JM	n/a	n/a	MSK2609
MC34323-1A	K82748.D	1	10/21/14	JM	n/a	n/a	MSK2609

The QC reported here applies to the following samples: Method: SW846 8260C

MC34323-1A

CAS No.	Compound	MC34323-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	ND		7620	7750	102	7620	7800	102	1	70-130/30
79-01-6	Trichloroethene	ND		7620	8710	114	7620	9510	125	9	70-130/30
75-69-4	Trichlorofluoromethane	ND		7620	5780	76	7620	5750	75	1	70-130/30
108-05-4	Vinyl Acetate	ND		7620	2190	29* [a]	7620	903	12* [a]	83* [b]	70-130/30
75-01-4	Vinyl chloride	ND		7620	13400	176* [c]	7620	10500	138* [c]	24	70-130/30
1330-20-7	Xylene (total)	178		22900	23700	103	22900	23700	103	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC34323-1A	Limits
1868-53-7	Dibromofluoromethane	100%	100%	115%	70-130%
2037-26-5	Toluene-D8	104%	102%	106%	70-130%
460-00-4	4-Bromofluorobenzene	97%	98%	104%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) High RPD due to possible matrix interference and/or sample non-homogeneity.
(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Method Blank Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40220-MB	R40366.D	1	10/17/14	WK	10/15/14	OP40220	MSR1486

The QC reported here applies to the following samples: Method: SW846 8270D

MC34323-1A, MC34323-2A

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	240	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	480	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	480	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	480	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	480	ug/kg	
95-48-7	2-Methylphenol	ND	480	ug/kg	
	3&4-Methylphenol	ND	480	ug/kg	
88-75-5	2-Nitrophenol	ND	480	ug/kg	
100-02-7	4-Nitrophenol	ND	960	ug/kg	
87-86-5	Pentachlorophenol	ND	480	ug/kg	
108-95-2	Phenol	ND	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	480	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	480	ug/kg	
83-32-9	Acenaphthene	ND	96	ug/kg	
208-96-8	Acenaphthylene	ND	96	ug/kg	
120-12-7	Anthracene	ND	96	ug/kg	
56-55-3	Benzo(a)anthracene	ND	96	ug/kg	
50-32-8	Benzo(a)pyrene	ND	96	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	96	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	96	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	96	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	ug/kg	
85-68-7	Butyl benzyl phthalate	27.4	240	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	240	ug/kg	
106-47-8	4-Chloroaniline	ND	480	ug/kg	
86-74-8	Carbazole	ND	96	ug/kg	
218-01-9	Chrysene	ND	96	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	480	ug/kg	

Method Blank Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40220-MB	R40366.D	1	10/17/14	WK	10/15/14	OP40220	MSR1486

The QC reported here applies to the following samples: Method: SW846 8270D

MC34323-1A, MC34323-2A

CAS No.	Compound	Result	RL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	480	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	96	ug/kg	
132-64-9	Dibenzofuran	ND	96	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	240	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	ug/kg	
84-66-2	Diethyl phthalate	ND	240	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	29.5	240	ug/kg	J
206-44-0	Fluoranthene	ND	96	ug/kg	
86-73-7	Fluorene	ND	96	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	480	ug/kg	
67-72-1	Hexachloroethane	ND	240	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	96	ug/kg	
78-59-1	Isophorone	ND	240	ug/kg	
91-57-6	2-Methylnaphthalene	ND	96	ug/kg	
88-74-4	2-Nitroaniline	ND	480	ug/kg	
99-09-2	3-Nitroaniline	ND	480	ug/kg	
100-01-6	4-Nitroaniline	ND	480	ug/kg	
91-20-3	Naphthalene	ND	96	ug/kg	
98-95-3	Nitrobenzene	ND	240	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	ug/kg	
85-01-8	Phenanthrene	ND	96	ug/kg	
129-00-0	Pyrene	ND	96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	82%	30-130%
4165-62-2	Phenol-d5	80%	30-130%
118-79-6	2,4,6-Tribromophenol	96%	30-130%
4165-60-0	Nitrobenzene-d5	70%	30-130%

Method Blank Summary

Job Number: MC34323
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40220-MB	R40366.D	1	10/17/14	WK	10/15/14	OP40220	MSR1486

The QC reported here applies to the following samples: Method: SW846 8270D

MC34323-1A, MC34323-2A

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	86%	30-130%
1718-51-0	Terphenyl-d14	96%	30-130%

8.1.1

8

Accutest Laboratories

Sample Summary

AECOM Environment

Job No: MC34323R

Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY
Project No: 60137362

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC34323-1R	10/13/14	13:27	JC	10/14/14	SO	Soil	T5-SB7 (10-11)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
Accutest Quote #
Accutest Job # MC34323R

Client / Reporting Information

Company Name: AECOM
Street Address: 125 Broad Street
City / State / Zip: New York, NY 10004
Project Contact: Pete Cox E-mail: Pete.Cox@aecom.com
Phone #: 978-905-2168 Fax #:
Sampler(s) Name(s): J. Christoffel Phone #: 631-871-0593

Project Information

Project Name: Equity - National Grid
Street: 300 Maspeth Ave
City / State: Brooklyn, NY
Project #: 60137362
Client Purchase Order #:
Project Manager: Pete Cox

Billing Information (If different from Report to): SAME
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs 8260B	SVOCs 8270C	TPH (DRO + GRO) 8015	TAL Metals 6010	PCBs 8082A	PAHs + alkyl PAHs via 8270C using SIM *	n-Alkane + isoprenoids including PRO 8015 *	Petroleum biomarker compounds GC/MS/SIM via 8270 m *				LAB USE ONLY
-1	T5-SB7 (10-11)	1410/dh793	10-13-14	13:27	JC	SO	7							X	X	X	X	X	X	X	X	X	X				
-2	T5-SB7 (11.5-15)	1408/dh793	10-13-14	13:27	JC	SO	7							X	X	X	X	X	X	X	X	X	X				
																											2D, 10J6, ZG1,

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [x] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
All other analysis
TPH Analysis only

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

* Hold Analysis Pending TPH analysis.
~~Use 8oz jar for GRO instead of Meth Kit. Matt~~ JC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Jennifer Christoffel	10-14-14 / 2:45PM	1 Courier (Benny)	2 B C	10-14-14 2:18PM	2 B.C
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.7°C

5.1 5

MC34323R: Chain of Custody
Page 1 of 2

MC34323R

Matt Morrell

From: Dave Mauro <dmauro@metaenv.com>
Sent: Tuesday, October 21, 2014 11:07 AM
To: Matt Morrell; James Roush
Cc: BRochlen@schiffhardin.com; Paul Lundegard; Thomas.Campbell@nationalgrid.com; Ryan, William; Terry, David; pete.cox@aecom.com
Subject: RE: Equity sample batch MC34323

Matt,

Paul Lundegard and I have completed our review of the GC chromatograms and TPH results for sample batch MC34323.

Please proceed with full forensic analysis of sample MC34323-1 only.

Dave

David M. Mauro
META Environmental Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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5.1 5

MC34323R: Chain of Custody
Page 2 of 2

Raw Data: Z03909.D

Method Blank Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-MB	Z03909.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	4.0	ug/kg	
	C1-Benzene	ND	4.0	ug/kg	
	C2-Benzenes	ND	4.0	ug/kg	
	C3-Benzenes	ND	4.0	ug/kg	
	C4-Benzenes	ND	4.0	ug/kg	
	C5-Benzenes	ND	4.0	ug/kg	
108-88-3	Toluene	ND	4.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.0	ug/kg	
	m,p-Xylene	ND	4.0	ug/kg	
100-42-5	Styrene	5.3	4.0	ug/kg	
95-47-6	o-Xylene	ND	4.0	ug/kg	
98-82-8	Isopropylbenzene	ND	4.0	ug/kg	
103-65-1	n-Propylbenzene	ND	4.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.0	ug/kg	
526-73-8	1,2,3-Trimethylbenzene	ND	4.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.0	ug/kg	
98-06-6	t-Butylbenzene	ND	4.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.0	ug/kg	
104-51-8	n-Butylbenzene	ND	4.0	ug/kg	
493-02-7	trans-Decalin	ND	4.0	ug/kg	
493-01-6	cis-Decalin	ND	4.0	ug/kg	
11095-43-5	Benzo(b)thiophene	ND	4.0	ug/kg	
91-20-3	Naphthalene	ND	4.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	ug/kg	
	C1-Naphthalenes	ND	4.0	ug/kg	
	C2-Naphthalenes	3.9	4.0	ug/kg	J
	C3-Naphthalenes	3.8	4.0	ug/kg	J
	C4-Naphthalenes	3.1	4.0	ug/kg	J
92-52-4	Biphenyl	ND	4.0	ug/kg	
208-96-8	Acenaphthylene	ND	4.0	ug/kg	
83-32-9	Acenaphthene	ND	4.0	ug/kg	
132-64-9	Dibenzofuran	ND	4.0	ug/kg	
86-73-7	Fluorene	ND	4.0	ug/kg	
	C1-Fluorenes	ND	4.0	ug/kg	

Method Blank Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-MB	Z03909.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	Result	RL	Units	Q
	C2-Fluorenes	ND	4.0	ug/kg	
	C3-Fluorenes	ND	4.0	ug/kg	
132-65-0	Dibenzothiophene	ND	4.0	ug/kg	
	C1-Dibenzothiophenes	ND	4.0	ug/kg	
	C2-Dibenzothiophenes	ND	4.0	ug/kg	
	C3-Dibenzothiophenes	ND	4.0	ug/kg	
	C4-Dibenzothiophenes	ND	4.0	ug/kg	
85-01-8	Phenanthrene	ND	4.0	ug/kg	
120-12-7	Anthracene	ND	4.0	ug/kg	
	C1-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C2-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C3-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
	C4-Phenanthrenes/Anthracene	ND	4.0	ug/kg	
483-65-8	Retene	ND	4.0	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	ND	4.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	ug/kg	
129-00-0	Pyrene	ND	4.0	ug/kg	
	C1-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
	C2-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
	C3-Fluoranthenes/Pyrenes	ND	4.0	ug/kg	
243-17-4	Benzo(b)fluorene	ND	4.0	ug/kg	
205-12-9	Benzo(c)fluorene	ND	4.0	ug/kg	
3442-78-2	2-Methylpyrene	ND	4.0	ug/kg	
3353-12-6	4-Methylpyrene	ND	4.0	ug/kg	
2381-21-7	1-Methylpyrene	ND	4.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	4.0	ug/kg	
218-01-9	Chrysene	ND	4.0	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	ND	4.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	ug/kg	
192-97-2	Benzo(e)pyrene	ND	4.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	ug/kg	
198-55-0	Perylene	ND	4.0	ug/kg	

Method Blank Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-MB	Z03909.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	Result	RL	Units	Q
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4.0	ug/kg	
191-07-1	Coronene	ND	4.0	ug/kg	
75-74-1	Tetramethyl lead	ND	4.0	ug/kg	
1762-26-1	Trimethylethyl lead	ND	4.0	ug/kg	
1762-27-2	Dimethyldiethyl lead	ND	4.0	ug/kg	
1762-28-3	Methyltriethyl lead	ND	4.0	ug/kg	
78-00-2	Tetraethyl lead	ND	4.0	ug/kg	
	Organic Lead	ND	4.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	77%	40-140%
1146-65-2	Naphthalene-d8	78%	40-140%
1517-22-2	Phenanthrene-d10	90%	40-140%
	Perylene-d12	79%	40-140%

Raw Data: Z03911.D

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-DUP3 [a]	Z03911.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	MC34323-1RDUP ug/kg	Q	ug/kg	Q	RPD	Limits
71-43-2	Benzene	284		293		3	30
	C1-Benzene	231		169		31* [b]	30 [c]
	C2-Benzenes	725		900		22	30 [c]
	C3-Benzenes	1650		2310		33* [b]	30 [c]
	C4-Benzenes	6980		8780		23	30 [c]
	C5-Benzenes	5260		6160		16	30 [c]
108-88-3	Toluene	298		210		35* [b]	30
100-41-4	Ethylbenzene	207		277		29	30
	m,p-Xylene	675		861		24	30
100-42-5	Styrene	230		201		13	30
95-47-6	o-Xylene	165		179		8	30
98-82-8	Isopropylbenzene	253		410		47* [b]	30
103-65-1	n-Propylbenzene	845		1260		39* [b]	30
108-67-8	1,3,5-Trimethylbenzene	288		361		22	30
526-73-8	1,2,3-Trimethylbenzene	186		229		21	30
95-63-6	1,2,4-Trimethylbenzene	495		781		45* [b]	30
98-06-6	t-Butylbenzene	7.3		10.9		40* [b]	30 ± RL
135-98-8	sec-Butylbenzene	216		294		31* [b]	30
99-87-6	p-Isopropyltoluene	45.9		55.3		19	30
104-51-8	n-Butylbenzene	742		998		29	30
493-02-7	trans-Decalin	364		375		3	30
493-01-6	cis-Decalin	95.0		98.7		4	30
11095-43-5	Benzo(b)thiophene	ND		ND		nc	30
91-20-3	Naphthalene	504		609		19	30
91-57-6	2-Methylnaphthalene	300		381		24	30
90-12-0	1-Methylnaphthalene	802		1080		30	30
	C1-Naphthalenes	700		928		28	30 [c]
	C2-Naphthalenes	1230		1310		6	30 [c]
	C3-Naphthalenes	945		981		4	30 [c]
	C4-Naphthalenes	566		580		2	30 [c]
92-52-4	Biphenyl	58.0		61.6		6	30
208-96-8	Acenaphthylene	791		757		4	30
83-32-9	Acenaphthene	441		542		21	30
132-64-9	Dibenzofuran	341		400		16	30
86-73-7	Fluorene	530		615		15	30
	C1-Fluorenes	341		356		4	30 [c]

* = Outside of Control Limits.

6.3.1

6

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-DUP3 [a]	Z03911.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	MC34323-1R ug/kg	Q	MC34323-1RDUP ug/kg	Q	RPD	Limits
	C2-Fluorenes	339		368		8	30 [c]
	C3-Fluorenes	409		425		4	30 [c]
132-65-0	Dibenzothiophene	275		313		13	30
	C1-Dibenzothiophenes	315		323		3	30 [c]
	C2-Dibenzothiophenes	366		366		0	30 [c]
	C3-Dibenzothiophenes	263		244		7	30 [c]
	C4-Dibenzothiophenes	133		128		4	30 [c]
85-01-8	Phenanthrene	3790		4330		13	30
120-12-7	Anthracene	1210		1270		5	30
	C1-Phenanthrenes/Anthracene	2050		2290		11	30 [c]
	C2-Phenanthrenes/Anthracene	1250		1270		2	30 [c]
	C3-Phenanthrenes/Anthracene	546		556		2	30 [c]
	C4-Phenanthrenes/Anthracene	208		204		2	30 [c]
483-65-8	Retene	115		136		17	30
239-35-0	Benzo(b)naphtho(2,1-d)thioph	210		244		15	30
206-44-0	Fluoranthene	3290		3660		11	30
129-00-0	Pyrene	3140		3480		10	30
	C1-Fluoranthenes/Pyrenes	1730		1820		5	30 [c]
	C2-Fluoranthenes/Pyrenes	912		933		2	30 [c]
	C3-Fluoranthenes/Pyrenes	410		458		11	30 [c]
243-17-4	Benzo(b)fluorene	186		193		4	30 [c]
205-12-9	Benzo(c)fluorene	92.6		98.1		6	30 [c]
3442-78-2	2-Methylpyrene	244		252		3	30 [c]
3353-12-6	4-Methylpyrene	211		220		4	30 [c]
2381-21-7	1-Methylpyrene	165		174		5	30 [c]
56-55-3	Benzo(a)anthracene	1570		1710		9	30
218-01-9	Chrysene	1730		1880		8	30
	C1-Benzo(a)anthracenes/Chrys	1040		1090		5	30 [c]
	C2-Benzo(a)anthracenes/Chrys	468		492		5	30 [c]
	C3-Benzo(a)anthracenes/Chrys	267		261		2	30 [c]
	C4-Benzo(a)anthracenes/Chrys	137		147		7	30 [c]
205-99-2	Benzo(b)fluoranthene	1210		1350		11	30
207-08-9	Benzo(k)fluoranthene	1210		1310		8	30
192-97-2	Benzo(e)pyrene	1160		1250		7	30
50-32-8	Benzo(a)pyrene	1660		1790		8	30
198-55-0	Perylene	383		424		10	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-DUP3 [a]	Z03911.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	MC34323-1R ug/kg	Q	MC34323-1RDUP ug/kg	Q	RPD	Limits
193-39-5	Indeno(1,2,3-cd)pyrene	974		1060		8	30
53-70-3	Dibenzo(a,h)anthracene	339		374		10	30
191-24-2	Benzo(g,h,i)perylene	1090		1170		7	30
191-07-1	Coronene	313		355		13	30 [c]
75-74-1	Tetramethyl lead	ND		ND		nc	30 [c]
1762-26-1	Trimethylethyl lead	ND		ND		nc	30 [c]
1762-27-2	Dimethyldiethyl lead	ND		ND		nc	30 [c]
1762-28-3	Methyltriethyl lead	ND		ND		nc	30 [c]
78-00-2	Tetraethyl lead	388		429		10	30
	Organic Lead	388		429		10	30 [c]

CAS No.	Surrogate Recoveries	DUP	MC34323-1R	MC34323-1RLimits	
2037-26-5	Toluene-D8	80%	72%		40-140%
1146-65-2	Naphthalene-d8	67%	67%		40-140%
1517-22-2	Phenanthrene-d10	79%	78%	74%	40-140%
	Perylene-d12	65%	61%	66%	40-140%

(a) Sample extracted beyond recommended holding time.
(b) High RPD due to possible sample heterogeneity.
(c) Advisory control limits.

* = Outside of Control Limits.

Raw Data: Z03911A.D

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-DUP3 [a]	Z03911A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	MC34323-1R ug/kg	Q	MC34323-1RDUP ug/kg	Q	RPD	Limits	
	C23 Tricyclic Terpane	24.4 [c]		23.0		6	30 [b]	
	C24 Tricyclic Terpane	19.9 [c]		17.1		15	30 [b]	
	C25 Tricyclic Terpane-22S	11.1 [c]		11.0		1	30 [b]	
	C25 Tricyclic Terpane-22R	11.1 [c]		10		10	30 [b]	
	C24 Tetracyclic Terpane	11.6 [c]		9.5		20	30 [b]	
	C26 Tricyclic Terpane-22S	11.1 [c]		12.3		10	30 [b]	
	C26 Tricyclic Terpane-22R	11.4 [c]		10.9		4	30 [b]	
	C28 Tricyclic Terpane-22S	14.0 [c]		13.8		1	30 [b]	
	C28 Tricyclic Terpane-22R	14.9 [c]		14.2		5	30 [b]	
	C29 Tricyclic Terpane-22S	14.7 [c]		14.4		2	30 [b]	
	C29 Tricyclic Terpane-22R	14.0 [c]		15.4		10	30 [b]	
	18a-22,29,30-Trisnorneohopan	23.3 [c]		25.6		9	30 [b]	
	C30 Tricyclic Terpane-22S	20.2 [c]		25.8		24	30 [b]	
	C30 Tricyclic Terpane-22R	27.0 [c]		27.0		0	30 [b]	
	17a(H)-22,29,30-Trisnorhopan	55.7 [c]		59.4		6	30 [b]	
	30-Norhopane	184 [c]		200		8	30 [b]	
	18a(H)-30-Norneohopane-C29	39.9 [c]		47.8		18	30 [b]	
	17a(H)-Diahopane	11.9 [c]		14.9		22	30 [b]	
	30-Normoretane	26.9 [c]		32.2		18	30 [b]	
	18a(H)&18b(H)-Oleananes	19.6 [c]		34.5		55* [d]	30 [b]	> ± 2RL
	Hopane	237 [c]		284		18	30 [b]	
	Moretane	70.0 [c]		84.0		18	30 [b]	
	30-Homohopane-22S	103 [c]		112		8	30 [b]	
	30-Homohopane-22R	90.4 [c]		101		11	30 [b]	
559-65-9	Gammacerane	ND [c]		ND		nc	30 [b]	
	30,31-Bishomohopane-22S	75.4 [c]		82.7		9	30 [b]	
	30,31-Bishomohopane-22R	54.9 [c]		66.7		19	30 [b]	
	30,31-Trishomohopane-22S	49.9 [c]		54.3		8	30 [b]	
	30,31-Trishomohopane-22R	35.1 [c]		35.3		1	30 [b]	
	Tetrakishomohopane-22S	34.4 [c]		43.3		23	30 [b]	
	Tetrakishomohopane-22R	26.4 [c]		33.7		24	30 [b]	
	Pentakishomohopane-22S	39.8 [c]		40.8		2	30 [b]	
	Pentakishomohopane-22R	23.9 [c]		29.0		19	30 [b]	
	13b(H),17a(H)-20S-Diacholest	29.5 [c]		30.9		5	30 [b]	
	13b(H),17a(H)-20R-Diacholest	14.4 [c]		16.3		12	30 [b]	
	13b,17a-20S-Methyldiacholest	9.5 [c]		9.1		4	30 [b]	

* = Outside of Control Limits.

6.3.2 9

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40486-DUP3 [a]	Z03911A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152
MC34323-1R [a]	Z03912A.D	1	11/04/14	DB	10/30/14	OP40486	MSZ152

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC34323-1R

CAS No.	Compound	MC34323-1R ug/kg	Q	MC34323-1RDUP ug/kg	Q	RPD	Limits
	14a(H),17a(H)-20S-Cholestane	79.2 [c]		87.1		10	30 [b]
	14b(H),17b(H)-20R-Cholestan	41.1 [c]		41.6		1	30 [b]
	14b(H),17b(H)-20S-Cholestan	39.5 [c]		35.7		10	30 [b]
	14a(H),17a(H)-20R-Cholestan	85.3 [c]		95.5		11	30 [b]
	13b,17a-20R-Ethyldiacholesta	11.1 [c]		11.2		1	30 [b]
	13a,17b-20S-Ethyldiacholestan	11.6 [c]		14.6		23	30 [b]
	14a,17a-20S-Methylcholestane	36.3 [c]		45.4		22	30 [b]
	14b,17b-20R-Methylcholestan	45.1 [c]		56.2		22	30 [b]
	14b,17b-20S-Methylcholestane	59.3 [c]		63.2		6	30 [b]
	14a,17a-20R-Methylcholestane	40.4 [c]		45.0		11	30 [b]
	14a(H),17a(H)-20S-Ethylchole	62.9 [c]		74.3		17	30 [b]
	14b(H),17b(H)-20R-Ethylchol	72.2 [c]		83.9		15	30 [b]
	14b(H),17b(H)-20S-Ethylchole	57.7 [c]		66.4		14	30 [b]
	14a(H),17a(H)-20R-Ethylchole	64.9 [c]		76.7		17	30 [b]
	Organic Lead	388		ND		0	30 [b]

CAS No.	Surrogate Recoveries	DUP	MC34323-1R	MC34323-1RDUP	Limits
2037-26-5	Toluene-D8		72%		40-140%
1146-65-2	Naphthalene-d8		67%		40-140%
1517-22-2	Phenanthrene-d10	75%	78%	74%	40-140%
	Perylene-d12	71%	61%	66%	40-140%

(a) Sample extracted beyond recommended holding time.
(b) Advisory control limits.
(c) Result is from Run #2.
(d) High RPD due to possible sample heterogeneity.

* = Outside of Control Limits.

Raw Data: BG47062.D

Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40485-DUP3 [a]	BG47062.D	1	11/05/14	MEW	10/30/14	OP40485	GBG1787
MC34323-1R [a]	BG47063.D	1	11/05/14	MEW	10/30/14	OP40485	GBG1787

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC34323-1R

CAS No.	Compound	MC34323-1R mg/kg	Q	MC34323-1RDUP mg/kg	Q	RPD	Limits
	C-8	ND		ND		nc	30
	C-9	ND		ND		nc	30
	C-10	ND		ND		nc	30
	C-11	ND		ND		nc	30
	C-12	ND		ND		nc	30
	C-13	0.681		0.693		2	30
3891-98-3	2,6,10-trimethyldodecane (138	0.769		0.783		2	30
	C-14	0.331		0.322	J	3	30
3891-99-4	2,6,10-trimethyltridecane (147	0.894		0.903		1	30
	C-15	1.14		1.31		14	30
	C-16	1.19		1.29		8	30
3892-00-0	2,6,10-trimethylpentadecane (1	0.834		0.791		5	30
	C-17	ND		ND		nc	30
1921-70-6	Pristane	1.58		1.50		5	30
	C-18	0.635		0.593		7	30
638-36-8	Phytane	0.599		0.641		7	30
	C-19	0.314		0.290	J	8	30
	C-20	0.344		0.359	J	4	30
	C-21	ND		ND		nc	30
	C-22	0.409		0.419	J	2	30
	C-23	ND		0.274	J	200* [b]	30
	C-24	0.465		0.413	J	12	30
	C-25	ND		ND		nc	30
	C-26	ND		ND		nc	30
	C-27	ND		ND		nc	30
	C-28	ND		ND		nc	30
	C-29	ND		ND		nc	30
	C-30	ND		ND		nc	30
	C-31	ND		ND		nc	30
	C-32	ND		ND		nc	30
	C-33	ND		ND		nc	30
	C-34	ND		ND		nc	30
	C-35	ND		ND		nc	30
	C-36	ND		ND		nc	30
	C-37	ND		ND		nc	30
	C-38	ND		ND		nc	30

± RL no qualification required.

* = Outside of Control Limits.

8.3.1

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Duplicate Summary

Job Number: MC34323R
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40485-DUP3 [a]	BG47062.D	1	11/05/14	MEW	10/30/14	OP40485	GBG1787
MC34323-1R [a]	BG47063.D	1	11/05/14	MEW	10/30/14	OP40485	GBG1787

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC34323-1R

CAS No.	Compound	MC34323-1R mg/kg	Q	DUP mg/kg	Q	RPD	Limits
	C-39	ND		ND		nc	30
	C-40	ND		ND		nc	30
	TPH (C8-C40)	1150		1200		4	30

CAS No.	Surrogate Recoveries	DUP	MC34323-1R	Limits
84-15-1	o-Terphenyl	86%	86%	40-140%

(a) Sample extracted beyond recommended holding time.
(b) High RPD due to sample levels below reporting limit.

8.3.1

8

* = Outside of Control Limits.

Accutest Laboratories

Sample Summary

AECOM Environment

Job No: MC34374

Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY
Project No: 60137362

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
MC34374-1	10/15/14	15:35	JC	10/16/14	SO	Soil	T5-SB2(18-19)
MC34374-1A	10/15/14	15:35	JC	10/16/14	SO	Soil	T5-SB2(18-19)
MC34374-2	10/15/14	15:44	JC	10/16/14	SO	Soil	T5-SB2(21.5-25)
MC34374-2A	10/15/14	15:44	JC	10/16/14	SO	Soil	T5-SB2(21.5-25)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC34374

Client / Reporting Information

Company Name: ASCOM
Street Address: 125 BROAD STREET / 6TH FL
City / State / Zip: NEW YORK, NEW YORK 10005
Project Contact: PETE COX
E-mail:
Phone #: 978.905.2168
Fax #:
Sampler(s) Name(s): J. CHRISTOFFEL
Phone #: 631.871.0593

Project Information

Project Name: EQUITY - NATIONAL GRID
Street: 300 MASPETH AVE.
City / State: BROOKLYN, NY
Project #: 6C137362
Client Purchase Order #:
Project Manager: PETE COX

Billing Information (if different from Report to): SAME
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC's 8260B	SVOC's 8270C	TPH (DRO+GRO) 8015	TAL METALS 6010	PCBs 8082A	PAHs + Alkyl PAHs via 8270C using SIM	n-Alkane + isoprenoids including DRO+TPH 8015C	Petroleum biomarkers comp. GC/MS/SIM VIA 8270M				LAB USE ONLY
-1	T5-SB2 (18-19)	1403/ 4K793	10/15/14	1535	JC	SO	7							X	X	X	X	X	X	X	xH	xH	xH				
-2	T5-SB2 (21.5-25)	1402/ 4K793	10/15/14	1544	JC	SO	7							X	X	X	X	X	X	X	xH	xH	xH				
																											Loc. 3B
																											10K4.
																											ZG3

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [x] 3 Day RUSH TPH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [x] other Forensic anyons pending.

Approved By (Accutest PM): / Date:

RUSH!

Emergency & Rush T/A data available VIA Lablink TPH analysis.

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format
- [x] Other NYSDEC
- [ ] NJ Data of Known Quality Protocol Reporting

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

xH = HOLD ANALYSIS PENDING TPH RESULTS.
TPH = 3 day Turnaround Time

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Jennifer Christoffel	10/15/14 - 1721	1 Transfer to Fed Ex	2 FEDX	10-16-14	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 1.1°C

5.1

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MC34374: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC34374 **Client:** AECOM **Project:** BROOKLYN

Date / Time Received: 10/16/2014 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.1/1.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www.accutest.com

5.1
5

MC34374: Chain of Custody
Page 2 of 2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AECOM Environment	**Job No**	MC34374
Site:	Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY	**Report Date**	10/28/2014 12:40:44 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/15/2014 and were received at Accutest on 10/16/2014 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of MC34374. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: SO **Batch ID:** MSK2610

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34456-2MS, MC34456-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Bromomethane, Carbon tetrachloride are outside control limits. Outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for Acrolein, Chloroethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Vinyl chloride are outside control limits for sample MC34456-2MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MSK2610-BS for Vinyl Acetate, Vinyl chloride: Outside control limits. Associated samples are non-detect for this compound.
- MC34456-2MS/MSD for Vinyl Acetate, Vinyl chloride: Outside control limits. Associated samples are non-detect for this compound.

Matrix: SO **Batch ID:** MSM2448

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34431-1MS, MC34431-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Chloroethyl vinyl ether, Acetone, Acrolein, Bromomethane, Chlorobenzene, Styrene, trans-1,3-Dichloropropene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Chloroethyl vinyl ether, Acetone, Carbon tetrachloride, Styrene, Acrolein, Chloroethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Acrolein, Bromomethane, Chloroethane, Chloromethane, Trichlorofluoromethane, Vinyl chloride are outside control limits for sample MC34431-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC34431-1MSD for 4-Bromofluorobenzene: Outside control limits due to possible matrix interference. Confirmed by MS/MSD.

Extractables by GCMS By Method SW846 8270D

Matrix: SO	Batch ID: OP40244

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34374-1AMS, MC34374-1AMSD were used as the QC samples indicated.
- Sample(s) MC34374-2A have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. Outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 2-Chlorophenol, 4-Chloro-3-methyl phenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 2-Methylphenol, 3&4-Methylphenol, 2-Nitrophenol, 4-Nitrophenol, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Di-n-butyl phthalate, bis(2-Ethylhexyl)phthalate, Hexachlorobenzene, Hexachlorocyclopentadiene, Hexachloroethane, 3-Nitroaniline, 4-Nitroaniline, Nitrobenzene, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 4-Chloro-3-methyl phenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 2-Nitrophenol, 4-Nitrophenol, 4-Chloroaniline, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Di-n-butyl phthalate, bis(2-Ethylhexyl)phthalate, Hexachlorobenzene, Hexachlorocyclopentadiene, Hexachloroethane, 2-Nitroaniline, N-Nitrosodiphenylamine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MS/MSD Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,4,5-Trichlorophenol, 2,6-Dinitrotoluene, 2-Chlorophenol, 2-Methylphenol, 2-Nitroaniline, 3&4-Methylphenol, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, 4-Nitrophenol, Hexachlorocyclopentadiene are outside control limits for sample OP40244-MSD. High RPD due to possible matrix interference and/or sample heterogeneity.
- OP40244-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- MC34374-1A for 2-Fluorobiphenyl, Terphenyl-d14, 2-Fluorophenol, 2,4,6-Tribromophenol, Nitrobenzene-d5: Outside control limits due to dilution.

Volatiles by GC By Method SW846 8015

Matrix: SO	Batch ID: GAB4624

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34370-2MS, MC34370-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082A

Matrix: SO	Batch ID: OP40238

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC34371-1MS, MC34371-1MSD, OP40238-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for Aroclor 1260 are outside control limits. Outside control limits due to possible matrix interference.
- MC34374-1A for Decachlorobiphenyl, Tetrachloro-m-xylene: Outside control limits due to possible matrix interference.
- MC34374-2A for Decachlorobiphenyl: Outside control limits due to possible matrix interference.

Extractables by GC By Method SW846-8015

Matrix: SO	Batch ID: OP40240

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34374-1MS, MC34374-1MSD were used as the QC samples indicated.
- MS/MSD Recovery(s) for TPH-DRO (Semi-VOA) are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- MC34374-1: Confirmation run for surrogate recoveries.
- MC34374-1 for o-Terphenyl: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: SO	Batch ID: MP23759

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34381-25MS, MC34381-25MSD, MC34381-25SDL were used as the QC samples for metals.
- Matrix Spike Duplicate Recovery(s) for Zinc are outside control limits. Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.
- MS/MSD Recovery(s) for Aluminum, Calcium, Iron, Manganese are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Manganese are outside control limits for sample MP23759-S2. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD(s) for Serial Dilution for Antimony, Beryllium are outside control limits for sample MP23759-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for MP23759-SD1 for Sodium: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.

Metals By Method SW846 7471B

Matrix: SO	Batch ID: MP23760

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC34381-25MS, MC34381-25MSD were used as the QC samples for metals.

Wet Chemistry By Method SM21 2540 B MOD.

Matrix: SO	Batch ID: GN48730

- Sample(s) MC34356-2DUP were used as the QC samples for Solids, Percent.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC34374).

Blank Spike Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2610-BS	K82775.D	1	10/22/14	JM	n/a	n/a	MSK2610

The QC reported here applies to the following samples: Method: SW846 8260C

MC34374-1A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2840	114	70-130
107-02-8	Acrolein	12500	12000	96	70-130
107-13-1	Acrylonitrile	2500	1740	70	70-130
71-43-2	Benzene	2500	2340	94	70-130
75-27-4	Bromodichloromethane	2500	3110	124	70-130
75-25-2	Bromoform	2500	3170	127	70-130
74-83-9	Bromomethane	2500	3600	144* [a]	70-130
78-93-3	2-Butanone (MEK)	2500	2510	100	70-130
75-15-0	Carbon disulfide	2500	2430	97	70-130
56-23-5	Carbon tetrachloride	2500	3520	141* [a]	70-130
108-90-7	Chlorobenzene	2500	2500	100	70-130
75-00-3	Chloroethane	2500	3030	121	70-130
110-75-8	2-Chloroethyl vinyl ether	2500	1990	80	10-160
67-66-3	Chloroform	2500	2600	104	70-130
74-87-3	Chloromethane	2500	2930	117	70-130
124-48-1	Dibromochloromethane	2500	3070	123	70-130
95-50-1	1,2-Dichlorobenzene	2500	2560	102	70-130
541-73-1	1,3-Dichlorobenzene	2500	2490	100	70-130
106-46-7	1,4-Dichlorobenzene	2500	2480	99	70-130
75-34-3	1,1-Dichloroethane	2500	2370	95	70-130
107-06-2	1,2-Dichloroethane	2500	2700	108	70-130
75-35-4	1,1-Dichloroethene	2500	2250	90	70-130
156-59-2	cis-1,2-Dichloroethene	2500	2290	92	70-130
156-60-5	trans-1,2-Dichloroethene	2500	2280	91	70-130
78-87-5	1,2-Dichloropropane	2500	2340	94	70-130
10061-01-5	cis-1,3-Dichloropropene	2500	2630	105	70-130
10061-02-6	trans-1,3-Dichloropropene	2500	2910	116	70-130
100-41-4	Ethylbenzene	2500	2580	103	70-130
591-78-6	2-Hexanone	2500	2000	80	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	1940	78	70-130
75-09-2	Methylene chloride	2500	2150	86	70-130
100-42-5	Styrene	2500	2560	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	2500	2170	87	70-130
127-18-4	Tetrachloroethene	2500	2570	103	70-130
108-88-3	Toluene	2500	2480	99	70-130
71-55-6	1,1,1-Trichloroethane	2500	3010	120	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSK2610-BS	K82775.D	1	10/22/14	JM	n/a	n/a	MSK2610

The QC reported here applies to the following samples: Method: SW846 8260C

MC34374-1A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-00-5	1,1,2-Trichloroethane	2500	2380	95	70-130
79-01-6	Trichloroethene	2500	2680	107	70-130
75-69-4	Trichlorofluoromethane	2500	2150	86	70-130
108-05-4	Vinyl Acetate	2500	3760	150* [b]	70-130
75-01-4	Vinyl chloride	2500	5180	207* [b]	70-130
1330-20-7	Xylene (total)	7500	7760	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	109%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Method Blank Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-MB	F76942.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	240	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	490	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	490	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	490	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	490	ug/kg	
95-48-7	2-Methylphenol	ND	490	ug/kg	
	3&4-Methylphenol	ND	490	ug/kg	
88-75-5	2-Nitrophenol	ND	490	ug/kg	
100-02-7	4-Nitrophenol	ND	980	ug/kg	
87-86-5	Pentachlorophenol	ND	490	ug/kg	
108-95-2	Phenol	ND	240	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	490	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	490	ug/kg	
83-32-9	Acenaphthene	ND	98	ug/kg	
208-96-8	Acenaphthylene	ND	98	ug/kg	
120-12-7	Anthracene	ND	98	ug/kg	
56-55-3	Benzo(a)anthracene	ND	98	ug/kg	
50-32-8	Benzo(a)pyrene	ND	98	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	98	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	98	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	98	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	240	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	240	ug/kg	
91-58-7	2-Chloronaphthalene	ND	240	ug/kg	
106-47-8	4-Chloroaniline	ND	490	ug/kg	
86-74-8	Carbazole	ND	98	ug/kg	
218-01-9	Chrysene	ND	98	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	240	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	240	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	240	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	240	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	490	ug/kg	

Method Blank Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-MB	F76942.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Compound	Result	RL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	490	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	240	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	98	ug/kg	
132-64-9	Dibenzofuran	ND	98	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	240	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	240	ug/kg	
84-66-2	Diethyl phthalate	ND	240	ug/kg	
131-11-3	Dimethyl phthalate	ND	240	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	240	ug/kg	
206-44-0	Fluoranthene	ND	98	ug/kg	
86-73-7	Fluorene	ND	98	ug/kg	
118-74-1	Hexachlorobenzene	ND	240	ug/kg	
87-68-3	Hexachlorobutadiene	ND	240	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	490	ug/kg	
67-72-1	Hexachloroethane	ND	240	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	98	ug/kg	
78-59-1	Isophorone	ND	240	ug/kg	
91-57-6	2-Methylnaphthalene	ND	98	ug/kg	
88-74-4	2-Nitroaniline	ND	490	ug/kg	
99-09-2	3-Nitroaniline	ND	490	ug/kg	
100-01-6	4-Nitroaniline	ND	490	ug/kg	
91-20-3	Naphthalene	120	240	ug/kg	J
98-95-3	Nitrobenzene	ND	240	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	240	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	ug/kg	
85-01-8	Phenanthrene	ND	98	ug/kg	
129-00-0	Pyrene	ND	98	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	240	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	86%	30-130%
4165-62-2	Phenol-d5	87%	30-130%
118-79-6	2,4,6-Tribromophenol	81%	30-130%
4165-60-0	Nitrobenzene-d5	80%	30-130%

Method Blank Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-MB	F76942.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	86%	30-130%
1718-51-0	Terphenyl-d14	101%	30-130%

8.1.1

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Blank Spike Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-BS	F76943.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	2470	2120	86	30-130
59-50-7	4-Chloro-3-methyl phenol	2470	2200	89	30-130
120-83-2	2,4-Dichlorophenol	2470	2230	90	30-130
105-67-9	2,4-Dimethylphenol	2470	2170	88	30-130
51-28-5	2,4-Dinitrophenol	2470	2390	97	30-130
534-52-1	4,6-Dinitro-o-cresol	2470	2530	102	30-130
95-48-7	2-Methylphenol	2470	2210	89	30-130
	3&4-Methylphenol	4950	4810	97	30-130
88-75-5	2-Nitrophenol	2470	1980	80	30-130
100-02-7	4-Nitrophenol	2470	911	37	30-130
87-86-5	Pentachlorophenol	2470	1340	54	30-130
108-95-2	Phenol	2470	2030	82	30-130
95-95-4	2,4,5-Trichlorophenol	2470	2400	97	30-130
88-06-2	2,4,6-Trichlorophenol	2470	1800	73	30-130
83-32-9	Acenaphthene	2470	2640	107	40-140
208-96-8	Acenaphthylene	2470	2270	92	40-140
120-12-7	Anthracene	2470	2800	113	40-140
56-55-3	Benzo(a)anthracene	2470	3320	134	40-140
50-32-8	Benzo(a)pyrene	2470	2810	114	40-140
205-99-2	Benzo(b)fluoranthene	2470	2890	117	40-140
191-24-2	Benzo(g,h,i)perylene	2470	3050	123	40-140
207-08-9	Benzo(k)fluoranthene	2470	2620	106	40-140
101-55-3	4-Bromophenyl phenyl ether	2470	2700	109	40-140
85-68-7	Butyl benzyl phthalate	2470	3100	125	40-140
91-58-7	2-Chloronaphthalene	2470	2550	103	40-140
106-47-8	4-Chloroaniline	2470	1880	76	40-140
86-74-8	Carbazole	2470	2840	115	40-140
218-01-9	Chrysene	2470	3180	129	40-140
111-91-1	bis(2-Chloroethoxy)methane	2470	2200	89	40-140
111-44-4	bis(2-Chloroethyl)ether	2470	2140	87	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2470	2730	110	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2470	2410	97	40-140
95-50-1	1,2-Dichlorobenzene	2470	2100	85	40-140
541-73-1	1,3-Dichlorobenzene	2470	2070	84	40-140
106-46-7	1,4-Dichlorobenzene	2470	2030	82	40-140
121-14-2	2,4-Dinitrotoluene	2470	2840	115	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-BS	F76943.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	2470	2690	109	40-140
91-94-1	3,3'-Dichlorobenzidine	2470	3990	161* [a]	40-140
53-70-3	Dibenzo(a,h)anthracene	2470	2980	121	40-140
132-64-9	Dibenzofuran	2470	2350	95	40-140
84-74-2	Di-n-butyl phthalate	2470	2820	114	40-140
117-84-0	Di-n-octyl phthalate	2470	2400	97	40-140
84-66-2	Diethyl phthalate	2470	2620	106	40-140
131-11-3	Dimethyl phthalate	2470	2680	108	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2470	3330	135	40-140
206-44-0	Fluoranthene	2470	2830	114	40-140
86-73-7	Fluorene	2470	2650	107	40-140
118-74-1	Hexachlorobenzene	2470	2520	102	40-140
87-68-3	Hexachlorobutadiene	2470	1850	75	40-140
77-47-4	Hexachlorocyclopentadiene	2470	1320	53	40-140
67-72-1	Hexachloroethane	2470	1860	75	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2470	3020	122	40-140
78-59-1	Isophorone	2470	2070	84	40-140
91-57-6	2-Methylnaphthalene	2470	2290	93	40-140
88-74-4	2-Nitroaniline	2470	2610	106	40-140
99-09-2	3-Nitroaniline	2470	2410	97	40-140
100-01-6	4-Nitroaniline	2470	2400	97	40-140
91-20-3	Naphthalene	2470	3350	135	40-140
98-95-3	Nitrobenzene	2470	2100	85	40-140
621-64-7	N-Nitroso-di-n-propylamine	2470	2420	98	40-140
86-30-6	N-Nitrosodiphenylamine	2470	2650	107	40-140
85-01-8	Phenanthrene	2470	2880	116	40-140
129-00-0	Pyrene	2470	2850	115	40-140
120-82-1	1,2,4-Trichlorobenzene	2470	2050	83	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	79%	30-130%
4165-62-2	Phenol-d5	88%	30-130%
118-79-6	2,4,6-Tribromophenol	79%	30-130%
4165-60-0	Nitrobenzene-d5	75%	30-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40244-BS	F76943.D	1	10/20/14	WK	10/16/14	OP40244	MSF3370

The QC reported here applies to the following samples: Method: SW846 8270D

MC34374-1A, MC34374-2A

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	84%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

8.2.1

8

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC34374
Account: AECOMMAC AECOM Environment
Project: Equity - National Grid, 300 Maspeth Ave, Brooklyn, NY

Method: SW846 8270D Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC34374-1A	R40489.D	0* [a]	44	0* [a]	0* [a]	79	0* [a]
MC34374-1A	F76946.D	34	43	0* [a]	50	0* [a]	50
MC34374-2A	F76947.D	71	72	82	64	71	80
OP40244-BS	F76943.D	79	88	79	75	84	103
OP40244-MB	F76942.D	86	87	81	80	86	101
OP40244-MS	F76944.D	35	42	118	53	65	67
OP40244-MSD	F76945.D	34	53	135* [a]	64	73	70

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-130%
S2 = Phenol-d5	30-130%
S3 = 2,4,6-Tribromophenol	30-130%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits due to dilution.

8.4.1

8

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
July 2014

Data Usability Summary Report
National Grid/Equity Former MGP Site
2014 Addendum RI Sampling Event
Final

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
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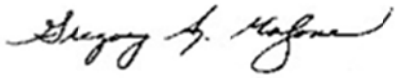
Data Usability Summary Report National Grid/Equity Former MGP Site 2014 Addendum RI Sampling Event Final



Prepared By
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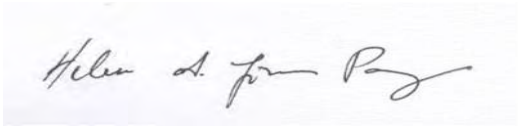

Reviewed By
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Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on six data packages from Accutest Laboratories - New England, 495 Tech Center West, Building 1, Marlborough, MA 01752 for the analysis of soil samples collected May 20-21, 2014 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (COC) records.

- Volatile Organic Compounds by USEPA SW-846 Method 8260B
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270C
- Polychlorinated Biphenyls (PCBs) by USEPA SW-846 Method 8082A
- Total Petroleum Hydrocarbons (TPH) by USEPA SW-846 Method 8015C/ASTM D3328-06
- Total TAL Metals by USEPA SW-846 Methods 6010B and 7471A
- Percent Solids for Dry Weight Corrections by Method SM2540 G mod.

Not all samples were analyzed for all of the tests listed. Refer to the chain-of-custody records (COCs) for the specific tests that were requested.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010, with additional reference to *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, October 2004, as they applied to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the *USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, December 1996.

The samples were processed and the results were reported under two sample delivery groups (SDGs). Table 1 provides a sample submittal list with the field IDs cross-referenced with the Accutest IDs.

Table 1 - Sample Submittals
National Grid / Equity Samples

Field ID	Laboratory ID	Matrix	Date Sampled
T2-SB1 (15-20)	MC30767-1	Soil	5/20/2014 16:00
T2-SB1 (21-22)	MC30767-2	Soil	5/20/2014 16:15
T1-SB7 (16.5-17.5)	MC30823-1	Soil	5/21/2014 12:30
T1-SB7 (22-23)	MC30823-2	Soil	5/21/2014 12:45
T1-SB8 (17-18.5)	MC30823-3	Soil	5/21/2014 11:45
T1-SB8 (23-24)	MC30823-4	Soil	5/21/2014 12:00
T1-SB9 (15-18)	MC30823-5	Soil	5/21/2014 11:00

Field ID	Laboratory ID	Matrix	Date Sampled
T1-SB9 (18-20)	MC30823-6	Soil	5/21/2014 11:15
T1-SB8 (23-24)	MC30823-7	Soil	5/21/2014 12:00
DUP-5/21/14	MC30823-8	Soil (QC)	5/21/2014 0:00
T2-SB4 (5-10)	MC30823-9	Soil	5/20/2014 13:30

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

All data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

MC30767

No data quality issues were noted. No data qualifications were required.

MC30823

Blank Contamination (pp. 82-83): Methylene chloride was detected in the method preparation blank MSM2319-MB at a concentration less than two times the reporting limit. In the *National Functional* Guidelines the USEPA identifies methylene chloride as a common laboratory solvent and contaminant. The positive methylene chloride result for associated sample T1-SB7(22-23) was less than two times the reporting limit and was qualified "U," as undetected, because of laboratory contamination.

Matrix spike Recoveries (pp. 92-93): The T2-SB4 (5-10) MS/MSD recoveries for methyl acetate were less than the lower advisory limit, but greater than 20%. The methyl acetate result for sample T2-SB4 (5-10) was non-detect and was qualified "UJ," as estimated, because of low bias due to matrix effects.

2.0 Semivolatile Organic Compounds

MC30767

Laboratory Control Sample Recoveries (pp.38-39): The LCS (OP38307-BS) recovery for hexachlorocyclopentadiene was less than the lower quality control limits, but greater than 10%. The hexachlorocyclopentadiene results for associated samples T2-SB1 (15-20) and T2-SB1 (21-22) were non-detect and were qualified "UJ," as estimates, because of low method bias.

MC30823

Matrix Spike Recoveries (pp. 92-93): Sample T1-SB8 (23-24) was designated in the field to be processed as the quality control sample, that is as the MS/MSD. The T1-SB8 (23-24) MS/MSD recoveries for hexachlorocyclopentadiene and 2,4-dinirophenol were less than the lower advisory limit, but greater than 10%. The hexachlorocyclopentadiene and 2,4-dinirophenol results for sample T1-SB8 (23-24) were non-detect and were qualified "UJ," as estimates, because of low bias due to matrix effects.

3.0 Polychlorinated Biphenyls (PCBs)

MC30767

No data quality issues were noted. No data qualifications were required.

MC30823

No data quality issues were noted. No data qualifications were required.

4.0 Petroleum Hydrocarbons

MC30767

Laboratory Duplicate Precision (pp. 9-10): A duplicate analysis was performed for ASTM D5739-06/8270C SIM sample T2-SB1 (15-20). The RPDs between the original and laboratory duplicate results for trans-decalin, cis-decalin, C1-decalins, C2-decalins and C4-phenanthrenes/anthracenes were greater than the maximum quality control limits. The trans-decalin, cis-decalin, C1-decalins, C2-decalins and C4-phenanthrenes/anthracenes results for sample T2-SB1 (15-20) were positive and were qualified "J," as estimated concentrations, because of imprecision due to sample heterogeneity.

MC30823

Surrogate Recoveries (p. 344): The o-terphenyl surrogate recoveries for samples T1-SB7 (16.5-17.5), T1-SB8 (17-18.5) and T1-SB9 (15-18) were less than the lower quality control limits, but greater than 10%. The TPH (C8-C40) results for samples T1-SB7 (16.5-17.5), T1-SB8 (17-18.5) and T1-SB9 (15-18) were positive and were qualified "J," as estimated concentrations, because of low bias due to matrix effects. The positive and non-detect T1-SB7 (16.5-17.5) and T1-SB9 (15-18) petroleum oil (ASTM D3328-06) results were qualified "J/UJ," as estimates, because of low bias due to matrix effects.

5.0 Total Metals

MC30767 and MC30823

Matrix Spike Recoveries (pp. 58-61, 68): Sample T1-SB8 (23-24) was designated in the field to be processed as the quality control sample, that is as the MS/MSD. The T1-SB8 (23-24) MS/MSD recoveries for antimony were less than the lower validation limit of 75%, at 24.0% and 25.8%. The post-digestion spike recovery was within the validation limits of 75-125%, at 108.1%. All samples were affected. All positive and non-detect antimony results were qualified "J/UJ," as estimates, because of low method bias and/or matrix effects.

ICP Serial Dilution Results (pp. 66-67): A serial dilution analysis was performed on sample T1-SB8 (23-24). The percent differences for barium, calcium, iron and zinc were greater than the validation limit of 10%. All samples were affected. All positive barium, calcium, iron and zinc results were qualified "J," as estimated concentrations, because of physical/chemical matrix interference.

6.0 Field Duplicate Precision

A field duplicate sample was collected for sample T1SB9 (18-20). Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments, for results greater than or equal to two times the reporting limit. If one of the results is non-detect or less than two times the reporting limit, and the duplicate is greater than two times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Action applies only to the affected analyte in the organic duplicate sample pair.

Inorganics: The RPD must be ≤ 50% for soil/sediments, for results greater than or equal to five times the reporting limit. For results less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to four times the reporting limit for soil/sediments.

Action applies to the affected analyte in all inorganic samples of the same matrix prepared and analyzed by the same method.

The results associated with the non-conforming RPD were qualified "J/UJ," as estimates, because of field sampling/laboratory imprecision and/or sample heterogeneity.

The following notations are used in the field precision tables.

RPD: Relative percent difference

NC: RPD could not be calculated

µg/kg: micrograms per kilogram (ppb) and mg/kg: milligrams per kilogram (ppm).

Table 1 – Field Duplicate Precision
National Grid / Equity Samples

Compound	T1SB9 (18-20)	DUP-5/21/14	Units	RPD (%)	Quals
Aluminum	19500	20200	mg/kg	3.5	
Arsenic	8.8	9.0	mg/kg	2.2	
Barium	38.4	41.3	mg/kg	7.3	
Beryllium	1.1	1.0	mg/kg	10	
Calcium	2640	2580	mg/kg	2.3	
Chromium	40.3	38.8	mg/kg	3.8	
Cobalt	12.1	12.6	mg/kg	4.0	
Copper	14.5	14.2	mg/kg	2.1	
Iron	38000	37500	mg/kg	1.3	

Compound	T1SB9 (18-20)	DUP-5/21/14	Units	RPD (%)	Quals
Lead	13.8	15.4	mg/kg	11	
Magnesium	8660	9000	mg/kg	3.9	
Manganese	436	452	mg/kg	3.6	
Nickel	30.2	31.0	mg/kg	2.6	
Potassium	4390	4680	mg/kg	6.4	
Sodium	2800	2900	mg/kg	3.5	
Vanadium	40.8	42.7	mg/kg	4.5	
Zinc	86.5	85.2	mg/kg	1.5	
TPH (C8-C40)	410	328	mg/kg	22	
2-Methylnaphthalene	48100	8480	ug/kg	140	J
Acenaphthene	26900	3060	ug/kg	159	J
Acenaphthylene	5910	469	ug/kg	171	J
Anthracene	13900	1080	ug/kg	171	J
Benzo(a)anthracene	13200	919	ug/kg	174	J
Benzo(a)pyrene	10200	718	ug/kg	174	J
Benzo(b)fluoranthene	7850	550	ug/kg	174	J
Benzo(ghi)perylene	3750	273	ug/kg	173	J
Benzo(k)fluoranthene	2460	181	ug/kg	173	J
Chrysene	9610	665	ug/kg	174	J
Dibenz(a,h)anthracene	999	180 U	ug/kg	NC	J/UJ
Dibenzofuran	1610	180 U	ug/kg	NC	J/UJ
Fluoranthene	16900	1140	ug/kg	175	J
Fluorene	18400	1780	ug/kg	165	J
Indeno(1,2,3-cd)pyrene	3010	213	ug/kg	174	J
Phenanthrene	43900	4090	ug/kg	166	J
Pyrene	28000	2020	ug/kg	173	J
Naphthalene	108000	44600	ug/kg	83	J
Ethylbenzene	2800	3370	ug/kg	19	
Xylenes (total)	3690	4550	ug/kg	21	
Percent Solids	52.5	52.7	%	0.38	

7.0 Notes

Positive organic and inorganic results less than the reporting limit, but greater than the method detection limit (MDL) were qualified “J,” as estimated concentrations, due to increased uncertainty near the detection limit. The “J” qualifiers were maintained in the data validation.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8260C	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G137990.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	12.6 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	720	ug/kg	
107-02-8	Acrolein	ND	1800	ug/kg	
107-13-1	Acrylonitrile	ND	1800	ug/kg	
71-43-2	Benzene	ND	36	ug/kg	
75-27-4	Bromodichloromethane	ND	140	ug/kg	
75-25-2	Bromoform	ND	140	ug/kg	
74-83-9	Bromomethane	ND	140	ug/kg	
78-93-3	2-Butanone (MEK)	ND	720	ug/kg	
75-15-0	Carbon disulfide	ND	360	ug/kg	
56-23-5	Carbon tetrachloride	ND	140	ug/kg	
108-90-7	Chlorobenzene	ND	140	ug/kg	
75-00-3	Chloroethane	ND	360	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	360	ug/kg	
67-66-3	Chloroform	ND	140	ug/kg	
74-87-3	Chloromethane	ND	360	ug/kg	
124-48-1	Dibromochloromethane	ND	140	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	140	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	140	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	140	ug/kg	
75-34-3	1,1-Dichloroethane	ND	140	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	ug/kg	
75-35-4	1,1-Dichloroethene	ND	140	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	140	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	140	ug/kg	
78-87-5	1,2-Dichloropropane	ND	140	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	140	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	140	ug/kg	
100-41-4	Ethylbenzene	ND	140	ug/kg	
591-78-6	2-Hexanone	ND	720	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	360	ug/kg	
75-09-2	Methylene chloride	ND	140	ug/kg	
100-42-5	Styrene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8260C	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	ug/kg	
127-18-4	Tetrachloroethene	ND	140	ug/kg	
108-88-3	Toluene	ND	360	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	140	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	140	ug/kg	
79-01-6	Trichloroethene	ND	140	ug/kg	
75-69-4	Trichlorofluoromethane	ND	140	ug/kg	
108-05-4	Vinyl Acetate	ND	360	ug/kg	
75-01-4	Vinyl chloride	ND	140	ug/kg	
1330-20-7	Xylene (total)	307	140	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	118%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02281.D	5	05/30/14	WK	05/28/14	OP38307	MSX82
Run #2							

	Initial Weight	Final Volume
Run #1	2.74 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	12000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	25000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	25000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	25000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	49000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	25000	ug/kg	
95-48-7	2-Methylphenol	ND	25000	ug/kg	
	3&4-Methylphenol	ND	25000	ug/kg	
88-75-5	2-Nitrophenol	ND	25000	ug/kg	
100-02-7	4-Nitrophenol	ND	49000	ug/kg	
87-86-5	Pentachlorophenol	ND	25000	ug/kg	
108-95-2	Phenol	ND	12000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	25000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	25000	ug/kg	
83-32-9	Acenaphthene	8090	4900	ug/kg	
208-96-8	Acenaphthylene	ND	4900	ug/kg	
120-12-7	Anthracene	5280	4900	ug/kg	
56-55-3	Benzo(a)anthracene	6000	4900	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4900	ug/kg	
205-99-2	Benzo(b)fluoranthene	5610	4900	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	4900	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4900	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	12000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	12000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	12000	ug/kg	
106-47-8	4-Chloroaniline	ND	25000	ug/kg	
86-74-8	Carbazole	ND	4900	ug/kg	
218-01-9	Chrysene	ND	4900	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	12000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	12000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	12000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	12000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	12000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	12000	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	12000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	25000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	25000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4900	ug/kg	
132-64-9	Dibenzofuran	ND	4900	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	12000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	12000	ug/kg	
84-66-2	Diethyl phthalate	ND	12000	ug/kg	
131-11-3	Dimethyl phthalate	ND	12000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	12000	ug/kg	
206-44-0	Fluoranthene	14300	4900	ug/kg	
86-73-7	Fluorene	7540	4900	ug/kg	
118-74-1	Hexachlorobenzene	ND	12000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	12000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND UJ	25000	ug/kg	
67-72-1	Hexachloroethane	ND	12000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4900	ug/kg	
78-59-1	Isophorone	ND	12000	ug/kg	
91-57-6	2-Methylnaphthalene	9340	4900	ug/kg	
88-74-4	2-Nitroaniline	ND	25000	ug/kg	
99-09-2	3-Nitroaniline	ND	25000	ug/kg	
100-01-6	4-Nitroaniline	ND	25000	ug/kg	
91-20-3	Naphthalene	ND	4900	ug/kg	
98-95-3	Nitrobenzene	ND	12000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	12000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	12000	ug/kg	
85-01-8	Phenanthrene	20500	4900	ug/kg	
129-00-0	Pyrene	23100	4900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	12000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		30-130%
4165-62-2	Phenol-d5	84%		30-130%
118-79-6	2,4,6-Tribromophenol	71%		30-130%
4165-60-0	Nitrobenzene-d5	99%		30-130%
321-60-8	2-Fluorobiphenyl	90%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8270D SW846 3546	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	116%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8082A SW846 3546	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38311.D	1	05/29/14	NK	05/28/14	OP38306	GBK1243
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	43	ug/kg	
11104-28-2	Aroclor 1221	ND	43	ug/kg	
11141-16-5	Aroclor 1232	ND	43	ug/kg	
53469-21-9	Aroclor 1242	ND	43	ug/kg	
12672-29-6	Aroclor 1248	ND	43	ug/kg	
11097-69-1	Aroclor 1254	ND	43	ug/kg	
11096-82-5	Aroclor 1260	ND	43	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		30-150%
877-09-8	Tetrachloro-m-xylene	86%		30-150%
2051-24-3	Decachlorobiphenyl	133%		30-150%
2051-24-3	Decachlorobiphenyl	119%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
		Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5130	21	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	2.5 J	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	14.5	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	135 J	5.2	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.41	0.41	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.73	0.41	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	36100 J	520	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	14.3	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	13.9	5.2	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	113	2.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	29400 J	10	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	273	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	16500	520	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	319	1.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.51	0.043	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	31.0	4.1	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	802	520	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 1.0	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.52	0.52	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 520	520	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.0	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	17.8	1.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	246 J	2.1	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17179
(2) Instrument QC Batch: MA17196
(3) Prep QC Batch: MP23101
(4) Prep QC Batch: MP23111

RL = Reporting Limit

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8260C	Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G137985.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.9 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1200	ug/kg	
107-02-8	Acrolein	ND	3000	ug/kg	
107-13-1	Acrylonitrile	ND	3000	ug/kg	
71-43-2	Benzene	3240	60	ug/kg	
75-27-4	Bromodichloromethane	ND	240	ug/kg	
75-25-2	Bromoform	ND	240	ug/kg	
74-83-9	Bromomethane	ND	240	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1200	ug/kg	
75-15-0	Carbon disulfide	ND	600	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	ug/kg	
108-90-7	Chlorobenzene	ND	240	ug/kg	
75-00-3	Chloroethane	ND	600	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	600	ug/kg	
67-66-3	Chloroform	ND	240	ug/kg	
74-87-3	Chloromethane	ND	600	ug/kg	
124-48-1	Dibromochloromethane	ND	240	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	240	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	240	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	ug/kg	
75-35-4	1,1-Dichloroethene	ND	240	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	240	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	ug/kg	
100-41-4	Ethylbenzene	ND	240	ug/kg	
591-78-6	2-Hexanone	ND	1200	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	600	ug/kg	
75-09-2	Methylene chloride	ND	240	ug/kg	
100-42-5	Styrene	ND	600	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8260C	Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	ug/kg	
127-18-4	Tetrachloroethene	ND	240	ug/kg	
108-88-3	Toluene	ND	600	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	ug/kg	
79-01-6	Trichloroethene	ND	240	ug/kg	
75-69-4	Trichlorofluoromethane	ND	240	ug/kg	
108-05-4	Vinyl Acetate	ND	600	ug/kg	
75-01-4	Vinyl chloride	ND	240	ug/kg	
1330-20-7	Xylene (total)	ND	240	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	119%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8270D SW846 3546	Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02280.D	1	05/30/14	WK	05/28/14	OP38307	MSX82
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	460	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	920	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	920	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	920	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1800	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	920	ug/kg	
95-48-7	2-Methylphenol	ND	920	ug/kg	
	3&4-Methylphenol	ND	920	ug/kg	
88-75-5	2-Nitrophenol	ND	920	ug/kg	
100-02-7	4-Nitrophenol	ND	1800	ug/kg	
87-86-5	Pentachlorophenol	ND	920	ug/kg	
108-95-2	Phenol	762	460	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	920	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	920	ug/kg	
83-32-9	Acenaphthene	ND	180	ug/kg	
208-96-8	Acenaphthylene	ND	180	ug/kg	
120-12-7	Anthracene	ND	180	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	460	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	460	ug/kg	
91-58-7	2-Chloronaphthalene	ND	460	ug/kg	
106-47-8	4-Chloroaniline	ND	920	ug/kg	
86-74-8	Carbazole	ND	180	ug/kg	
218-01-9	Chrysene	ND	180	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	460	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	460	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	460	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	460	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8270D SW846 3546	Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	460	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	460	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	460	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	920	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	920	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	460	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	ug/kg	
132-64-9	Dibenzofuran	ND	180	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	460	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	460	ug/kg	
84-66-2	Diethyl phthalate	ND	460	ug/kg	
131-11-3	Dimethyl phthalate	ND	460	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	460	ug/kg	
206-44-0	Fluoranthene	198	180	ug/kg	
86-73-7	Fluorene	ND	180	ug/kg	
118-74-1	Hexachlorobenzene	ND	460	ug/kg	
87-68-3	Hexachlorobutadiene	ND	460	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	920	ug/kg	UJ
67-72-1	Hexachloroethane	ND	460	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	ug/kg	
78-59-1	Isophorone	ND	460	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	ug/kg	
88-74-4	2-Nitroaniline	ND	920	ug/kg	
99-09-2	3-Nitroaniline	ND	920	ug/kg	
100-01-6	4-Nitroaniline	ND	920	ug/kg	
91-20-3	Naphthalene	ND	180	ug/kg	
98-95-3	Nitrobenzene	ND	460	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	460	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	460	ug/kg	
85-01-8	Phenanthrene	256	180	ug/kg	
129-00-0	Pyrene	428	180	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	460	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		30-130%
4165-62-2	Phenol-d5	92%		30-130%
118-79-6	2,4,6-Tribromophenol	74%		30-130%
4165-60-0	Nitrobenzene-d5	104%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	SW846 8082A SW846 3546	Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38312.D	1	05/29/14	NK	05/28/14	OP38306	GBK1243
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	61	ug/kg	
11104-28-2	Aroclor 1221	ND	61	ug/kg	
11141-16-5	Aroclor 1232	ND	61	ug/kg	
53469-21-9	Aroclor 1242	ND	61	ug/kg	
12672-29-6	Aroclor 1248	ND	61	ug/kg	
11097-69-1	Aroclor 1254	ND	61	ug/kg	
11096-82-5	Aroclor 1260	ND	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		30-150%
877-09-8	Tetrachloro-m-xylene	78%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%
2051-24-3	Decachlorobiphenyl	63%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (21-22)		
Lab Sample ID:	MC30767-2	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
		Percent Solids:	54.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11700	29	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 1.4 UJ	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	8.7	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	29.3 J	7.2	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	1.1	0.57	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.57	0.57	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	2940 J	720	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	31.6	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	8.5	7.2	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	17.4	3.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	37400 J	14	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	12.2	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	6450	720	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	337	2.1	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.068	0.061	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	19.6	5.7	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	2740	720	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 1.4	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.72	0.72	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	4170	720	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.4	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	60.3	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	50.5 J	2.9	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17179
(2) Instrument QC Batch: MA17196
(3) Prep QC Batch: MP23101
(4) Prep QC Batch: MP23111

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02603A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
Run #2	Z02603.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104
Run #3	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

	Initial Weight	Final Volume
Run #1	5.06 g	2.0 ml
Run #2	5.06 g	2.0 ml
Run #3	5.06 g	2.0 ml

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
493-02-7	trans-Decalin	8250 J	27	ug/kg	
493-01-6	cis-Decalin	1570 J	27	ug/kg	
	C1-Decalins	25900 J	27	ug/kg	
	C2-Decalins	25500 J	27	ug/kg	
	C3-Decalins	14700	27	ug/kg	
	C4-Decalins	24400	27	ug/kg	
11095-43-5	Benzo(b)thiophene	ND	27	ug/kg	
	C1-Benzo(b)thiophenes	1670	27	ug/kg	
	C2-Benzo(b)thiophenes	2750	27	ug/kg	
	C3-Benzo(b)thiophenes	3430	27	ug/kg	
	C4-Benzo(b)thiophenes	1930	27	ug/kg	
91-20-3	Naphthalene	1750	27	ug/kg	
91-57-6	2-Methylnaphthalene	4620	27	ug/kg	
90-12-0	1-Methylnaphthalene	16200	27	ug/kg	
	C1-Naphthalenes	14000	27	ug/kg	
	C2-Naphthalenes	49200	27	ug/kg	
581-42-0	2,6-Dimethylnaphthalene	12800 [a]	27	ug/kg	
	C3-Naphthalenes	45100	27	ug/kg	
2245-38-7	2,3,5-Trimethylnaphthalene	5850 [a]	27	ug/kg	
	C4-Naphthalenes	22800	27	ug/kg	
208-96-8	Acenaphthylene	1030	27	ug/kg	
83-32-9	Acenaphthene	2820	27	ug/kg	
132-64-9	Dibenzofuran	1210	27	ug/kg	
86-73-7	Fluorene	2630	27	ug/kg	
	C1-Fluorenes	4890	27	ug/kg	
	C2-Fluorenes	6770	27	ug/kg	
	C3-Fluorenes	4290	27	ug/kg	
132-65-0	Dibenzothiophene	1300	27	ug/kg	
	C1-Dibenzothiophenes	2700	27	ug/kg	
	C2-Dibenzothiophenes	2740	27	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C3-Dibenzothiophenes	1910	27	ug/kg	
	C4-Dibenzothiophenes	903	27	ug/kg	
85-01-8	Phenanthrene	6780	27	ug/kg	
120-12-7	Anthracene	2120	27	ug/kg	
	C1-Phenanthrenes/Anthracene	9060	27	ug/kg	
832-69-9	1-Methylphenanthrene	1370 [a]	27	ug/kg	
	C2-Phenanthrenes/Anthracene	8370	27	ug/kg	
	C3-Phenanthrenes/Anthracene	4850	27	ug/kg	
	C4-Phenanthrenes/Anthracene	1840 J	27	ug/kg	
483-65-8	Retene	1440	27	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	388	27	ug/kg	
206-44-0	Fluoranthene	5260	27	ug/kg	
129-00-0	Pyrene	6230	27	ug/kg	
	C1-Fluoranthenes/Pyrenes	4450	27	ug/kg	
	C2-Fluoranthenes/Pyrenes	2250	27	ug/kg	
	C3-Fluoranthenes/Pyrenes	1230	27	ug/kg	
56-55-3	Benzo(a)anthracene	2000	27	ug/kg	
218-01-9	Chrysene	2080	27	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	1690	27	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	897	27	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	527	27	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	415	27	ug/kg	
205-99-2	Benzo(b)fluoranthene	1130	27	ug/kg	
207-08-9	Benzo(k)fluoranthene	1050	27	ug/kg	
192-97-2	Benzo(e)pyrene	1050	27	ug/kg	
50-32-8	Benzo(a)pyrene	1450	27	ug/kg	
198-55-0	Perylene	322	27	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	645	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	239	27	ug/kg	
191-24-2	Benzo(g,h,i)perylene	782	27	ug/kg	
	C25 Tricyclic Terpane-22R	45.0 [b]	27	ug/kg	
	C24 Tetracyclic Terpane	48.1 [b]	27	ug/kg	
	C26 Tricyclic Terpane-22S	36.9 [b]	27	ug/kg	
	C26 Tricyclic Terpane-22R	67.1 [b]	27	ug/kg	
	C28 Tricyclic Terpane-22S	39.7 [b]	27	ug/kg	
	C28 Tricyclic Terpane-22R	38.8 [b]	27	ug/kg	
	C29 Tricyclic Terpane-22S	43.0 [b]	27	ug/kg	
	C29 Tricyclic Terpane-22R	45.2 [b]	27	ug/kg	
	18a-22,29,30-Trisnorneohopan	129 [b]	27	ug/kg	
	C30 Tricyclic Terpane-22S	56.6 [b]	27	ug/kg	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C30 Tricyclic Terpane-22R	53.3 [b]	27	ug/kg	
	17a(H)-22,29,30-Trisnorhopan	192 [b]	27	ug/kg	
	30-Norhopane	454 [b]	27	ug/kg	
	18a(H)-30-Norneohopane-C29	168 [b]	27	ug/kg	
	17a(H)-Diahopane	59.0 [b]	27	ug/kg	
	30-Normoretane	100 [b]	27	ug/kg	
	18a(H)&18b(H)-Oleananes	89.7 [b]	27	ug/kg	
	Hopane	784 [b]	27	ug/kg	
	Moretane	127 [b]	27	ug/kg	
	30-Homohopane-22S	230 [b]	27	ug/kg	
	30-Homohopane-22R	197 [b]	27	ug/kg	
559-65-9	Gammacerane	ND [b]	27	ug/kg	
	30,31-Bishomohopane-22S	145 [b]	27	ug/kg	
	30,31-Bishomohopane-22R	138 [b]	27	ug/kg	
	30,31-Trishomohopane-22S	95.3 [b]	27	ug/kg	
	30,31-Trishomohopane-22R	68.2 [b]	27	ug/kg	
	Tetrakishomohopane-22S	58.8 [b]	27	ug/kg	
	Tetrakishomohopane-22R	108 [b]	27	ug/kg	
	Pentakishomohopane-22S	71.7 [b]	27	ug/kg	
	Pentakishomohopane-22R	45.0 [b]	27	ug/kg	
	13b(H),17a(H)-20S-Diacholest	201 [b]	27	ug/kg	
	13b(H),17a(H)-20R-Diacholest	112 [b]	27	ug/kg	
	13b,17a-20S-Methyldiacholest	119 [b]	27	ug/kg	
	14a(H),17a(H)-20S-Cholestane	350 [b]	27	ug/kg	
	14b(H),17b(H)-20R-Cholestan	137 [b]	27	ug/kg	
	14b(H),17b(H)-20S-Cholestan	134 [b]	27	ug/kg	
	14a(H),17a(H)-20R-Cholestan	372 [b]	27	ug/kg	
	13b,17a-20R-Ethyldiacholesta	29.1 [b]	27	ug/kg	
	13a,17b-20S-Ethyldiacholestan	39.9 [b]	27	ug/kg	
	14a,17a-20S-Methylcholestane	55.9 [b]	27	ug/kg	
	14b,17b-20R-Methylcholestan	158 [b]	27	ug/kg	
	14b,17b-20S-Methylcholestane	153 [b]	27	ug/kg	
	14a,17a-20R-Methylcholestane	169 [b]	27	ug/kg	
	14a(H),17a(H)-20S-Ethylchole	170 [b]	27	ug/kg	
	14b(H),17b(H)-20R-Ethylchol	262 [b]	27	ug/kg	
	14b(H),17b(H)-20S-Ethylchole	181 [b]	27	ug/kg	
	14a(H),17a(H)-20R-Ethylchole	232 [b]	27	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
2037-26-5	Toluene-D8	64%			40-140%
1146-65-2	Naphthalene-d8	66%	69%		40-140%
1517-22-2	Phenanthrene-d10	75%	74%		40-140%
	Perylene-d12	69%	77%		40-140%

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44432.D	1	05/28/14	BJ	05/24/14	OP38246	GBG1693
Run #2							

	Initial Weight	Final Volume
Run #1	5.06 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	C-8	ND	0.54	mg/kg	
	C-9	ND	0.54	mg/kg	
	C-10	ND	0.54	mg/kg	
	C-11	ND	0.54	mg/kg	
	C-12	ND	0.54	mg/kg	
	C-13	ND	0.54	mg/kg	
3891-98-3	2,6,10-trimethyldodecane (138	41.7	0.54	mg/kg	
	C-14	ND	0.54	mg/kg	
3891-99-4	2,6,10-trimethyltridecane (147	51.3	0.54	mg/kg	
	C-15	ND	0.54	mg/kg	
	C-16	ND	0.54	mg/kg	
3892-00-0	2,6,10-trimethylpentadecane (1	23.8	0.54	mg/kg	
	C-17	ND	0.54	mg/kg	
1921-70-6	Pristane	39.6	0.54	mg/kg	
	C-18	ND	0.54	mg/kg	
638-36-8	Phytane	24.0	0.54	mg/kg	
	C-19	ND	0.54	mg/kg	
	C-20	ND	0.54	mg/kg	
	C-21	ND	0.54	mg/kg	
	C-22	ND	0.54	mg/kg	
	C-23	ND	0.54	mg/kg	
	C-24	ND	0.54	mg/kg	
	C-25	ND	0.54	mg/kg	
	C-26	ND	0.54	mg/kg	
	C-27	ND	0.54	mg/kg	
	C-28	ND	0.54	mg/kg	
	C-29	ND	0.54	mg/kg	
	C-30	ND	0.54	mg/kg	
	C-31	ND	0.54	mg/kg	
	C-32	ND	0.54	mg/kg	
	C-33	ND	0.54	mg/kg	
	C-34	ND	0.54	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB1 (15-20)		
Lab Sample ID:	MC30767-1AR	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/22/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	73.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

CAS No.	Compound	Result	RL	Units	Q
	C-35	ND	0.54	mg/kg	
	C-36	ND	0.54	mg/kg	
	C-37	ND	0.54	mg/kg	
	C-38	ND	0.54	mg/kg	
	C-39	ND	0.54	mg/kg	
	C-40	ND	0.54	mg/kg	
	TPH (C8-C40)	8250	54	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Summary of Hits

Job Number: MC30767A
Account: AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY
Collected: 05/20/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC30767-1A	T2-SB1 (15-20)					
TPH (C8-C40)		8250	54		mg/kg	ASTM D3328-06
MC30767-2A	T2-SB1 (21-22)					
TPH (C8-C40)		671	70		mg/kg	ASTM D3328-06

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G137986.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.5 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	1010	930	ug/kg	
107-02-8	Acrolein	ND	2300	ug/kg	
107-13-1	Acrylonitrile	ND	2300	ug/kg	
71-43-2	Benzene	1270	47	ug/kg	
75-27-4	Bromodichloromethane	ND	190	ug/kg	
75-25-2	Bromoform	ND	190	ug/kg	
74-83-9	Bromomethane	ND	190	ug/kg	
78-93-3	2-Butanone (MEK)	ND	930	ug/kg	
75-15-0	Carbon disulfide	ND	470	ug/kg	
56-23-5	Carbon tetrachloride	ND	190	ug/kg	
108-90-7	Chlorobenzene	10900	190	ug/kg	
75-00-3	Chloroethane	ND	470	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	470	ug/kg	
67-66-3	Chloroform	ND	190	ug/kg	
74-87-3	Chloromethane	ND	470	ug/kg	
124-48-1	Dibromochloromethane	ND	190	ug/kg	
95-50-1	1,2-Dichlorobenzene	1650	190	ug/kg	
541-73-1	1,3-Dichlorobenzene	248	190	ug/kg	
106-46-7	1,4-Dichlorobenzene	3190	190	ug/kg	
75-34-3	1,1-Dichloroethane	ND	190	ug/kg	
107-06-2	1,2-Dichloroethane	ND	190	ug/kg	
75-35-4	1,1-Dichloroethene	ND	190	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	190	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	190	ug/kg	
78-87-5	1,2-Dichloropropane	ND	190	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	190	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	190	ug/kg	
100-41-4	Ethylbenzene	ND	190	ug/kg	
591-78-6	2-Hexanone	ND	930	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	470	ug/kg	
75-09-2	Methylene chloride	ND	190	ug/kg	
100-42-5	Styrene	ND	470	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	190	ug/kg	
127-18-4	Tetrachloroethene	ND	190	ug/kg	
108-88-3	Toluene	ND	470	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	190	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	190	ug/kg	
79-01-6	Trichloroethene	ND	190	ug/kg	
75-69-4	Trichlorofluoromethane	ND	190	ug/kg	
108-05-4	Vinyl Acetate	ND	470	ug/kg	
75-01-4	Vinyl chloride	ND	190	ug/kg	
1330-20-7	Xylene (total)	270	190	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	124%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02174.D	5	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1800	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	3600	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	3600	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	7300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3600	ug/kg	
95-48-7	2-Methylphenol	ND	3600	ug/kg	
	3&4-Methylphenol	ND	3600	ug/kg	
88-75-5	2-Nitrophenol	ND	3600	ug/kg	
100-02-7	4-Nitrophenol	ND	7300	ug/kg	
87-86-5	Pentachlorophenol	ND	3600	ug/kg	
108-95-2	Phenol	ND	1800	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	3600	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	3600	ug/kg	
83-32-9	Acenaphthene	22200	730	ug/kg	
208-96-8	Acenaphthylene	7120	730	ug/kg	
120-12-7	Anthracene	18300	730	ug/kg	
56-55-3	Benzo(a)anthracene	15800	730	ug/kg	
50-32-8	Benzo(a)pyrene	10800	730	ug/kg	
205-99-2	Benzo(b)fluoranthene	12900	730	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4690	730	ug/kg	
207-08-9	Benzo(k)fluoranthene	3730	730	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1800	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1800	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1800	ug/kg	
106-47-8	4-Chloroaniline	ND	3600	ug/kg	
86-74-8	Carbazole	ND	730	ug/kg	
218-01-9	Chrysene	14700	730	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1800	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1800	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1800	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1800	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	27600	1800	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1800	ug/kg	
106-46-7	1,4-Dichlorobenzene	24800	1800	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3600	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1320	730	ug/kg	
132-64-9	Dibenzofuran	1920	730	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1800	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1800	ug/kg	
84-66-2	Diethyl phthalate	ND	1800	ug/kg	
131-11-3	Dimethyl phthalate	ND	1800	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1800	ug/kg	
206-44-0	Fluoranthene	27600	730	ug/kg	
86-73-7	Fluorene	12600	730	ug/kg	
118-74-1	Hexachlorobenzene	ND	1800	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1800	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3600	ug/kg	
67-72-1	Hexachloroethane	ND	1800	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3870	730	ug/kg	
78-59-1	Isophorone	ND	1800	ug/kg	
91-57-6	2-Methylnaphthalene	2600	730	ug/kg	
88-74-4	2-Nitroaniline	ND	3600	ug/kg	
99-09-2	3-Nitroaniline	ND	3600	ug/kg	
100-01-6	4-Nitroaniline	ND	3600	ug/kg	
91-20-3	Naphthalene	6490	730	ug/kg	
98-95-3	Nitrobenzene	ND	1800	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1800	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1800	ug/kg	
85-01-8	Phenanthrene	43700	730	ug/kg	
129-00-0	Pyrene	42400	730	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		30-130%
4165-62-2	Phenol-d5	44%		30-130%
118-79-6	2,4,6-Tribromophenol	36%		30-130%
4165-60-0	Nitrobenzene-d5	48%		30-130%
321-60-8	2-Fluorobiphenyl	46%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	27600	1800	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1800	ug/kg	
106-46-7	1,4-Dichlorobenzene	24800	1800	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	3600	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	3600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1320	730	ug/kg	
132-64-9	Dibenzofuran	1920	730	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1800	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1800	ug/kg	
84-66-2	Diethyl phthalate	ND	1800	ug/kg	
131-11-3	Dimethyl phthalate	ND	1800	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1800	ug/kg	
206-44-0	Fluoranthene	27600	730	ug/kg	
86-73-7	Fluorene	12600	730	ug/kg	
118-74-1	Hexachlorobenzene	ND	1800	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1800	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	3600	ug/kg	
67-72-1	Hexachloroethane	ND	1800	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3870	730	ug/kg	
78-59-1	Isophorone	ND	1800	ug/kg	
91-57-6	2-Methylnaphthalene	2600	730	ug/kg	
88-74-4	2-Nitroaniline	ND	3600	ug/kg	
99-09-2	3-Nitroaniline	ND	3600	ug/kg	
100-01-6	4-Nitroaniline	ND	3600	ug/kg	
91-20-3	Naphthalene	6490	730	ug/kg	
98-95-3	Nitrobenzene	ND	1800	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1800	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1800	ug/kg	
85-01-8	Phenanthrene	43700	730	ug/kg	
129-00-0	Pyrene	42400	730	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		30-130%
4165-62-2	Phenol-d5	44%		30-130%
118-79-6	2,4,6-Tribromophenol	36%		30-130%
4165-60-0	Nitrobenzene-d5	48%		30-130%
321-60-8	2-Fluorobiphenyl	46%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	49%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38259.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	47	ug/kg	
11104-28-2	Aroclor 1221	ND	47	ug/kg	
11141-16-5	Aroclor 1232	ND	47	ug/kg	
53469-21-9	Aroclor 1242	ND	47	ug/kg	
12672-29-6	Aroclor 1248	ND	47	ug/kg	
11097-69-1	Aroclor 1254	313	47	ug/kg	
11096-82-5	Aroclor 1260	ND	47	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	46%		30-150%
877-09-8	Tetrachloro-m-xylene	45%		30-150%
2051-24-3	Decachlorobiphenyl	65%		30-150%
2051-24-3	Decachlorobiphenyl	77%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	3710	26	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	5.8 J	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	38.1	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	187 J	6.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	< 0.53	0.53	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	2.8	0.53	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	5500 J	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	56.5	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	< 6.6	6.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	951	3.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	25400 J	13	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	840	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	1830	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	253	2.0	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	1.6	0.092	mg/kg	2	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	92.8	5.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 660	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	4.5	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	2.8	0.66	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	792	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.3	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	16.7	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	840 J	2.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17191
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23103

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M65830.D	1	05/30/14	KD	n/a	n/a	MSM2319
Run #2							

	Initial Weight	Final Volume
Run #1	9.04 g	5.0 ml
Run #2		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	8.0	7.0	ug/kg	
107-02-8	Acrolein	ND	18	ug/kg	
107-13-1	Acrylonitrile	ND	18	ug/kg	
71-43-2	Benzene	0.46	0.35	ug/kg	
75-27-4	Bromodichloromethane	ND	1.4	ug/kg	
75-25-2	Bromoform	ND	1.4	ug/kg	
74-83-9	Bromomethane	ND	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	ND	7.0	ug/kg	
75-15-0	Carbon disulfide	3.9	3.5	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.4	ug/kg	
108-90-7	Chlorobenzene	ND	1.4	ug/kg	
75-00-3	Chloroethane	ND	3.5	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	3.5	ug/kg	
67-66-3	Chloroform	ND	1.4	ug/kg	
74-87-3	Chloromethane	ND	3.5	ug/kg	
124-48-1	Dibromochloromethane	ND	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.4	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.4	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	1.4	ug/kg	
591-78-6	2-Hexanone	ND	7.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	3.5	ug/kg	
75-09-2	Methylene chloride	1.6	~~1.4~~	ug/kg	~~B~~ U
100-42-5	Styrene	ND	3.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	ug/kg	
127-18-4	Tetrachloroethene	ND	1.4	ug/kg	
108-88-3	Toluene	ND	3.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.4	ug/kg	
79-01-6	Trichloroethene	ND	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	3.5	ug/kg	
75-01-4	Vinyl chloride	ND	1.4	ug/kg	
1330-20-7	Xylene (total)	ND	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02175.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	310	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	620	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	620	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	620	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	ug/kg	
95-48-7	2-Methylphenol	ND	620	ug/kg	
	3&4-Methylphenol	ND	620	ug/kg	
88-75-5	2-Nitrophenol	ND	620	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	ug/kg	
87-86-5	Pentachlorophenol	ND	620	ug/kg	
108-95-2	Phenol	ND	310	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	620	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	620	ug/kg	
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	ug/kg	
50-32-8	Benzo(a)pyrene	ND	120	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	120	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	120	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	310	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	310	ug/kg	
91-58-7	2-Chloronaphthalene	ND	310	ug/kg	
106-47-8	4-Chloroaniline	ND	620	ug/kg	
86-74-8	Carbazole	ND	120	ug/kg	
218-01-9	Chrysene	ND	120	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	310	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	310	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	310	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	310	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	310	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	310	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	310	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	620	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	620	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	310	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	ug/kg	
132-64-9	Dibenzofuran	ND	120	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	310	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	310	ug/kg	
84-66-2	Diethyl phthalate	ND	310	ug/kg	
131-11-3	Dimethyl phthalate	ND	310	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	310	ug/kg	
206-44-0	Fluoranthene	ND	120	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
118-74-1	Hexachlorobenzene	ND	310	ug/kg	
87-68-3	Hexachlorobutadiene	ND	310	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	620	ug/kg	
67-72-1	Hexachloroethane	ND	310	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	ug/kg	
78-59-1	Isophorone	ND	310	ug/kg	
91-57-6	2-Methylnaphthalene	339	120	ug/kg	
88-74-4	2-Nitroaniline	ND	620	ug/kg	
99-09-2	3-Nitroaniline	ND	620	ug/kg	
100-01-6	4-Nitroaniline	ND	620	ug/kg	
91-20-3	Naphthalene	1510	120	ug/kg	
98-95-3	Nitrobenzene	ND	310	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	310	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	310	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	120	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	310	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		30-130%
4165-62-2	Phenol-d5	93%		30-130%
118-79-6	2,4,6-Tribromophenol	69%		30-130%
4165-60-0	Nitrobenzene-d5	104%		30-130%
321-60-8	2-Fluorobiphenyl	83%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	100%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38264.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	40	ug/kg	
11104-28-2	Aroclor 1221	ND	40	ug/kg	
11141-16-5	Aroclor 1232	ND	40	ug/kg	
53469-21-9	Aroclor 1242	ND	40	ug/kg	
12672-29-6	Aroclor 1248	ND	40	ug/kg	
11097-69-1	Aroclor 1254	ND	40	ug/kg	
11096-82-5	Aroclor 1260	ND	40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		30-150%
877-09-8	Tetrachloro-m-xylene	61%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%
2051-24-3	Decachlorobiphenyl	60%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2170	22	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 1.1 UJ	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	3.9	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	< 5.6	5.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	< 0.45	0.45	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.45	0.45	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	637 J	560	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	5.3	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	< 5.6	5.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	3.0	2.8	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	6890 J	11	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	1.4	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	1010	560	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	69.3	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	< 0.041	0.041	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	< 4.5	4.5	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	< 560	560	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 1.1	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	< 0.56	0.56	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	651	560	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	6.8	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	12.2 J	2.2	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17191
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23103

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G137988.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.29 g	10.0 ml	5.0 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	21000	ug/kg	
107-02-8	Acrolein	ND	52000	ug/kg	
107-13-1	Acrylonitrile	ND	52000	ug/kg	
71-43-2	Benzene	21800	1000	ug/kg	
75-27-4	Bromodichloromethane	ND	4100	ug/kg	
75-25-2	Bromoform	ND	4100	ug/kg	
74-83-9	Bromomethane	ND	4100	ug/kg	
78-93-3	2-Butanone (MEK)	ND	21000	ug/kg	
75-15-0	Carbon disulfide	ND	10000	ug/kg	
56-23-5	Carbon tetrachloride	ND	4100	ug/kg	
108-90-7	Chlorobenzene	ND	4100	ug/kg	
75-00-3	Chloroethane	ND	10000	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	10000	ug/kg	
67-66-3	Chloroform	ND	4100	ug/kg	
74-87-3	Chloromethane	ND	10000	ug/kg	
124-48-1	Dibromochloromethane	ND	4100	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4100	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4100	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4100	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4100	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4100	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4100	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4100	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4100	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4100	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4100	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4100	ug/kg	
100-41-4	Ethylbenzene	145000	4100	ug/kg	
591-78-6	2-Hexanone	ND	21000	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10000	ug/kg	
75-09-2	Methylene chloride	ND	4100	ug/kg	
100-42-5	Styrene	ND	10000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	4100	ug/kg	
127-18-4	Tetrachloroethene	ND	4100	ug/kg	
108-88-3	Toluene	ND	10000	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4100	ug/kg	
79-01-6	Trichloroethene	ND	4100	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4100	ug/kg	
108-05-4	Vinyl Acetate	ND	10000	ug/kg	
75-01-4	Vinyl chloride	ND	4100	ug/kg	
1330-20-7	Xylene (total)	62000	4100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	118%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02176.D	10	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2	X02267.D	200	05/29/14	WK	05/23/14	OP38239	MSX82

	Initial Weight	Final Volume
Run #1	20.7 g	1.0 ml
Run #2	20.7 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	3600	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	7100	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	7100	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	7100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	14000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	7100	ug/kg	
95-48-7	2-Methylphenol	ND	7100	ug/kg	
	3&4-Methylphenol	ND	7100	ug/kg	
88-75-5	2-Nitrophenol	ND	7100	ug/kg	
100-02-7	4-Nitrophenol	ND	14000	ug/kg	
87-86-5	Pentachlorophenol	ND	7100	ug/kg	
108-95-2	Phenol	ND	3600	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	7100	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	7100	ug/kg	
83-32-9	Acenaphthene	519000 [a]	28000	ug/kg	
208-96-8	Acenaphthylene	32200	1400	ug/kg	
120-12-7	Anthracene	223000 [a]	28000	ug/kg	
56-55-3	Benzo(a)anthracene	129000 [a]	28000	ug/kg	
50-32-8	Benzo(a)pyrene	89800	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	74200	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	27600	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	27100	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	3600	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	3600	ug/kg	
91-58-7	2-Chloronaphthalene	ND	3600	ug/kg	
106-47-8	4-Chloroaniline	ND	7100	ug/kg	
86-74-8	Carbazole	5990	1400	ug/kg	
218-01-9	Chrysene	111000 [a]	28000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	3600	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	3600	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	3600	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	3600	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	3600	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	3600	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	3600	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	7100	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	7100	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	8670	1400	ug/kg	
132-64-9	Dibenzofuran	21400	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	3600	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	3600	ug/kg	
84-66-2	Diethyl phthalate	ND	3600	ug/kg	
131-11-3	Dimethyl phthalate	ND	3600	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	3600	ug/kg	
206-44-0	Fluoranthene	237000 [a]	28000	ug/kg	
86-73-7	Fluorene	261000 [a]	28000	ug/kg	
118-74-1	Hexachlorobenzene	ND	3600	ug/kg	
87-68-3	Hexachlorobutadiene	ND	3600	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	7100	ug/kg	
67-72-1	Hexachloroethane	ND	3600	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	23500	1400	ug/kg	
78-59-1	Isophorone	ND	3600	ug/kg	
91-57-6	2-Methylnaphthalene	885000 [a]	28000	ug/kg	
88-74-4	2-Nitroaniline	ND	7100	ug/kg	
99-09-2	3-Nitroaniline	ND	7100	ug/kg	
100-01-6	4-Nitroaniline	ND	7100	ug/kg	
91-20-3	Naphthalene	1720000 [a]	28000	ug/kg	
98-95-3	Nitrobenzene	ND	3600	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	3600	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	3600	ug/kg	
85-01-8	Phenanthrene	706000 [a]	28000	ug/kg	
129-00-0	Pyrene	452000 [a]	28000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	3600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%	44%	30-130%
4165-62-2	Phenol-d5	63%	35%	30-130%
118-79-6	2,4,6-Tribromophenol	55%	46%	30-130%
4165-60-0	Nitrobenzene-d5	108%	56%	30-130%
321-60-8	2-Fluorobiphenyl	70%	71%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	85%	80%	30-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	BK38290.D	5	05/29/14	NK	05/27/14	OP38279	GBK1242
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	240	ug/kg	
11104-28-2	Aroclor 1221	ND	240	ug/kg	
11141-16-5	Aroclor 1232	ND	240	ug/kg	
53469-21-9	Aroclor 1242	ND	240	ug/kg	
12672-29-6	Aroclor 1248	ND	240	ug/kg	
11097-69-1	Aroclor 1254	ND	240	ug/kg	
11096-82-5	Aroclor 1260	ND	240	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	121%		30-150%
877-09-8	Tetrachloro-m-xylene	59%		30-150%
2051-24-3	Decachlorobiphenyl	62%		30-150%
2051-24-3	Decachlorobiphenyl	119%		30-150%

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4660	26	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Antimony	2.0 J	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Arsenic	28.3	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Barium	86.9 J	6.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Beryllium	< 0.53	0.53	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Cadmium	1.6	0.53	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Calcium	8310 J	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Chromium	25.5	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 6.6	6.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Copper	424	3.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Iron	78400 J	40	mg/kg	3	05/27/14	05/28/14	EAL	SW846 6010C [3]	SW846 3050B [5]
Lead	318	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Magnesium	2930	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Manganese	727	2.0	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.94	0.048	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [4]
Nickel	35.0	5.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Potassium	827	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 1.3	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Silver	< 0.66	0.66	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Sodium	983	660	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.3	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Vanadium	23.8	1.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]
Zinc	569 J	2.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17191
(3) Instrument QC Batch: MA17196
(4) Prep QC Batch: MP23102
(5) Prep QC Batch: MP23103

RL = Reporting Limit

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-4A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	n/a [a]
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02178.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	490	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	490	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	490	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	490	ug/kg	
95-48-7	2-Methylphenol	ND	490	ug/kg	
	3&4-Methylphenol	ND	490	ug/kg	
88-75-5	2-Nitrophenol	ND	490	ug/kg	
100-02-7	4-Nitrophenol	ND	980	ug/kg	
87-86-5	Pentachlorophenol	ND	490	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	490	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	490	ug/kg	
83-32-9	Acenaphthene	547	98	ug/kg	
208-96-8	Acenaphthylene	ND	98	ug/kg	
120-12-7	Anthracene	358	98	ug/kg	
56-55-3	Benzo(a)anthracene	284	98	ug/kg	
50-32-8	Benzo(a)pyrene	199	98	ug/kg	
205-99-2	Benzo(b)fluoranthene	169	98	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	98	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	98	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	490	ug/kg	
86-74-8	Carbazole	ND	98	ug/kg	
218-01-9	Chrysene	225	98	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-4A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	n/a [a]
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	250	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	490	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	490	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	98	ug/kg	
132-64-9	Dibenzofuran	ND	98	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	250	ug/kg	
206-44-0	Fluoranthene	473	98	ug/kg	
86-73-7	Fluorene	329	98	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	490	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	98	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	651	98	ug/kg	
88-74-4	2-Nitroaniline	ND	490	ug/kg	
99-09-2	3-Nitroaniline	ND	490	ug/kg	
100-01-6	4-Nitroaniline	ND	490	ug/kg	
91-20-3	Naphthalene	1990	98	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
85-01-8	Phenanthrene	1230	98	ug/kg	
129-00-0	Pyrene	836	98	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	86%		30-130%
4165-62-2	Phenol-d5	89%		30-130%
118-79-6	2,4,6-Tribromophenol	65%		30-130%
4165-60-0	Nitrobenzene-d5	100%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-4A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	n/a [a]
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	96%		30-130%

(a) All results reported on a wet weight basis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G137989.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.5 g	10.0 ml	25.0 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2600	ug/kg	
107-02-8	Acrolein	ND	6500	ug/kg	
107-13-1	Acrylonitrile	ND	6500	ug/kg	
71-43-2	Benzene	ND	130	ug/kg	
75-27-4	Bromodichloromethane	ND	520	ug/kg	
75-25-2	Bromoform	ND	520	ug/kg	
74-83-9	Bromomethane	ND	520	ug/kg	
78-93-3	2-Butanone (MEK)	ND	2600	ug/kg	
75-15-0	Carbon disulfide	ND	1300	ug/kg	
56-23-5	Carbon tetrachloride	ND	520	ug/kg	
108-90-7	Chlorobenzene	ND	520	ug/kg	
75-00-3	Chloroethane	ND	1300	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	1300	ug/kg	
67-66-3	Chloroform	ND	520	ug/kg	
74-87-3	Chloromethane	ND	1300	ug/kg	
124-48-1	Dibromochloromethane	ND	520	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	520	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	520	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	520	ug/kg	
75-34-3	1,1-Dichloroethane	ND	520	ug/kg	
107-06-2	1,2-Dichloroethane	ND	520	ug/kg	
75-35-4	1,1-Dichloroethene	ND	520	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	520	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	520	ug/kg	
78-87-5	1,2-Dichloropropane	ND	520	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	520	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	520	ug/kg	
100-41-4	Ethylbenzene	ND	520	ug/kg	
591-78-6	2-Hexanone	ND	2600	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	1300	ug/kg	
75-09-2	Methylene chloride	ND	520	ug/kg	
100-42-5	Styrene	ND	1300	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	520	ug/kg	
127-18-4	Tetrachloroethene	ND	520	ug/kg	
108-88-3	Toluene	ND	1300	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	520	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	520	ug/kg	
79-01-6	Trichloroethene	ND	520	ug/kg	
75-69-4	Trichlorofluoromethane	ND	520	ug/kg	
108-05-4	Vinyl Acetate	ND	1300	ug/kg	
75-01-4	Vinyl chloride	ND	520	ug/kg	
1330-20-7	Xylene (total)	ND	520	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	124%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02179.D	10	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2	X02268.D	100	05/29/14	WK	05/23/14	OP38239	MSX82

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2	20.9 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	2800	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	5600	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	5600	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	5600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	11000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	5600	ug/kg	
95-48-7	2-Methylphenol	ND	5600	ug/kg	
	3&4-Methylphenol	ND	5600	ug/kg	
88-75-5	2-Nitrophenol	ND	5600	ug/kg	
100-02-7	4-Nitrophenol	ND	11000	ug/kg	
87-86-5	Pentachlorophenol	ND	5600	ug/kg	
108-95-2	Phenol	ND	2800	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	5600	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	5600	ug/kg	
83-32-9	Acenaphthene	60600	1100	ug/kg	
208-96-8	Acenaphthylene	12700	1100	ug/kg	
120-12-7	Anthracene	61100	1100	ug/kg	
56-55-3	Benzo(a)anthracene	50300	1100	ug/kg	
50-32-8	Benzo(a)pyrene	30800	1100	ug/kg	
205-99-2	Benzo(b)fluoranthene	30000	1100	ug/kg	
191-24-2	Benzo(g,h,i)perylene	11600	1100	ug/kg	
207-08-9	Benzo(k)fluoranthene	9520	1100	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2800	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2800	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2800	ug/kg	
106-47-8	4-Chloroaniline	ND	5600	ug/kg	
86-74-8	Carbazole	ND	1100	ug/kg	
218-01-9	Chrysene	45100	1100	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2800	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2800	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2800	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2800	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2800	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2800	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2800	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	5600	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	5600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	3870	1100	ug/kg	
132-64-9	Dibenzofuran	ND	1100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2800	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2800	ug/kg	
84-66-2	Diethyl phthalate	ND	2800	ug/kg	
131-11-3	Dimethyl phthalate	ND	2800	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2800	ug/kg	
206-44-0	Fluoranthene	84500	1100	ug/kg	
86-73-7	Fluorene	50800	1100	ug/kg	
118-74-1	Hexachlorobenzene	ND	2800	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2800	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	5600	ug/kg	
67-72-1	Hexachloroethane	ND	2800	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	9170	1100	ug/kg	
78-59-1	Isophorone	ND	2800	ug/kg	
91-57-6	2-Methylnaphthalene	9710	1100	ug/kg	
88-74-4	2-Nitroaniline	ND	5600	ug/kg	
99-09-2	3-Nitroaniline	ND	5600	ug/kg	
100-01-6	4-Nitroaniline	ND	5600	ug/kg	
91-20-3	Naphthalene	13200	1100	ug/kg	
98-95-3	Nitrobenzene	ND	2800	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2800	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	2800	ug/kg	
85-01-8	Phenanthrene	253000 [a]	11000	ug/kg	
129-00-0	Pyrene	192000 [a]	11000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%	55%	30-130%
4165-62-2	Phenol-d5	74%	52%	30-130%
118-79-6	2,4,6-Tribromophenol	58%	56%	30-130%
4165-60-0	Nitrobenzene-d5	87%	74%	30-130%
321-60-8	2-Fluorobiphenyl	81%	77%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	91%	111%	30-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38261.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	37	ug/kg	
11104-28-2	Aroclor 1221	ND	37	ug/kg	
11141-16-5	Aroclor 1232	ND	37	ug/kg	
53469-21-9	Aroclor 1242	ND	37	ug/kg	
12672-29-6	Aroclor 1248	ND	37	ug/kg	
11097-69-1	Aroclor 1254	ND	37	ug/kg	
11096-82-5	Aroclor 1260	ND	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	142%		30-150%
877-09-8	Tetrachloro-m-xylene	64%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	101%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5820	21	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	<1.1 UJ	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	6.0	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	182 J	5.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	<0.42	0.42	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.61	0.42	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	22100 J	530	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.1	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	<5.3	5.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	47.6	2.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	12400 J	11	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	207	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	3150	530	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	182	1.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.28	0.038	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	10.4	4.2	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	659	530	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	<1.1	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	<0.53	0.53	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	556	530	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	<1.1	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	16.3	1.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	196 J	2.1	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17191
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23103

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G138014.D	1	05/29/14	JM	n/a	n/a	MSG5271
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.81 g	10.0 ml	20.0 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	7100	ug/kg	
107-02-8	Acrolein	ND	18000	ug/kg	
107-13-1	Acrylonitrile	ND	18000	ug/kg	
71-43-2	Benzene	ND	360	ug/kg	
75-27-4	Bromodichloromethane	ND	1400	ug/kg	
75-25-2	Bromoform	ND	1400	ug/kg	
74-83-9	Bromomethane	ND	1400	ug/kg	
78-93-3	2-Butanone (MEK)	ND	7100	ug/kg	
75-15-0	Carbon disulfide	ND	3600	ug/kg	
56-23-5	Carbon tetrachloride	ND	1400	ug/kg	
108-90-7	Chlorobenzene	ND	1400	ug/kg	
75-00-3	Chloroethane	ND	3600	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	3600	ug/kg	
67-66-3	Chloroform	ND	1400	ug/kg	
74-87-3	Chloromethane	ND	3600	ug/kg	
124-48-1	Dibromochloromethane	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1400	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1400	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1400	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1400	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1400	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1400	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1400	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1400	ug/kg	
100-41-4	Ethylbenzene	2800	1400	ug/kg	
591-78-6	2-Hexanone	ND	7100	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	3600	ug/kg	
75-09-2	Methylene chloride	ND	1400	ug/kg	
100-42-5	Styrene	ND	3600	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1400	ug/kg	
127-18-4	Tetrachloroethene	ND	1400	ug/kg	
108-88-3	Toluene	ND	3600	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1400	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1400	ug/kg	
79-01-6	Trichloroethene	ND	1400	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1400	ug/kg	
108-05-4	Vinyl Acetate	ND	3600	ug/kg	
75-01-4	Vinyl chloride	ND	1400	ug/kg	
1330-20-7	Xylene (total)	3690	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	116%		70-130%
460-00-4	4-Bromofluorobenzene	105%		70-130%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02180.D	5	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2	X02269.D	25	05/29/14	WK	05/23/14	OP38239	MSX82

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2	20.9 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	2300	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	4600	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	4600	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	4600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	9100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	4600	ug/kg	
95-48-7	2-Methylphenol	ND	4600	ug/kg	
	3&4-Methylphenol	ND	4600	ug/kg	
88-75-5	2-Nitrophenol	ND	4600	ug/kg	
100-02-7	4-Nitrophenol	ND	9100	ug/kg	
87-86-5	Pentachlorophenol	ND	4600	ug/kg	
108-95-2	Phenol	ND	2300	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	4600	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	4600	ug/kg	
83-32-9	Acenaphthene	26900 J	910	ug/kg	
208-96-8	Acenaphthylene	5910 J	910	ug/kg	
120-12-7	Anthracene	13900 J	910	ug/kg	
56-55-3	Benzo(a)anthracene	13200 J	910	ug/kg	
50-32-8	Benzo(a)pyrene	10200 J	910	ug/kg	
205-99-2	Benzo(b)fluoranthene	7850 J	910	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3750 J	910	ug/kg	
207-08-9	Benzo(k)fluoranthene	2460 J	910	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2300	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2300	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2300	ug/kg	
106-47-8	4-Chloroaniline	ND	4600	ug/kg	
86-74-8	Carbazole	ND	910	ug/kg	
218-01-9	Chrysene	9610 J	910	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2300	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2300	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2300	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	2300	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2300	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2300	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	4600	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	4600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	999 J	910	ug/kg	
132-64-9	Dibenzofuran	1610 J	910	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2300	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2300	ug/kg	
84-66-2	Diethyl phthalate	ND	2300	ug/kg	
131-11-3	Dimethyl phthalate	ND	2300	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2300	ug/kg	
206-44-0	Fluoranthene	16900 J	910	ug/kg	
86-73-7	Fluorene	18400 J	910	ug/kg	
118-74-1	Hexachlorobenzene	ND	2300	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2300	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	4600	ug/kg	
67-72-1	Hexachloroethane	ND	2300	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3010 J	910	ug/kg	
78-59-1	Isophorone	ND	2300	ug/kg	
91-57-6	2-Methylnaphthalene	48100 J	910	ug/kg	
88-74-4	2-Nitroaniline	ND	4600	ug/kg	
99-09-2	3-Nitroaniline	ND	4600	ug/kg	
100-01-6	4-Nitroaniline	ND	4600	ug/kg	
91-20-3	Naphthalene	108000 J	4600	ug/kg	
98-95-3	Nitrobenzene	ND	2300	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	2300	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	2300	ug/kg	
85-01-8	Phenanthrene	43900 J	910	ug/kg	
129-00-0	Pyrene	28000 J	910	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%	72%	30-130%
4165-62-2	Phenol-d5	89%	73%	30-130%
118-79-6	2,4,6-Tribromophenol	69%	58%	30-130%
4165-60-0	Nitrobenzene-d5	100%	91%	30-130%
321-60-8	2-Fluorobiphenyl	90%	89%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	101%	110%	30-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38262.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	60	ug/kg	
11104-28-2	Aroclor 1221	ND	60	ug/kg	
11141-16-5	Aroclor 1232	ND	60	ug/kg	
53469-21-9	Aroclor 1242	ND	60	ug/kg	
12672-29-6	Aroclor 1248	ND	60	ug/kg	
11097-69-1	Aroclor 1254	ND	60	ug/kg	
11096-82-5	Aroclor 1260	ND	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	47%		30-150%
877-09-8	Tetrachloro-m-xylene	46%		30-150%
2051-24-3	Decachlorobiphenyl	51%		30-150%
2051-24-3	Decachlorobiphenyl	48%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	19500	34	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	<1.7 UJ	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	8.8	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	38.4 J	8.5	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	1.1	0.68	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	<0.68	0.68	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	2640 J	850	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	40.3	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	12.1	8.5	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	14.5	4.3	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	38000 J	17	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	13.8	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	8660	850	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	436	2.6	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	<0.060	0.060	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	30.2	6.8	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	4390	850	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	<1.7	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	<0.85	0.85	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	2800	850	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	<1.7	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	40.8	1.7	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	86.5 J	3.4	mg/kg	1	05/27/14	05/27/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17191
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23103

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G137987.D	1	05/28/14	JM	n/a	n/a	MSG5270
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	12.4 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1100	ug/kg	
107-02-8	Acrolein	ND	2800	ug/kg	
107-13-1	Acrylonitrile	ND	2800	ug/kg	
71-43-2	Benzene	7120	57	ug/kg	
75-27-4	Bromodichloromethane	ND	230	ug/kg	
75-25-2	Bromoform	ND	230	ug/kg	
74-83-9	Bromomethane	ND	230	ug/kg	
78-93-3	2-Butanone (MEK)	ND	1100	ug/kg	
75-15-0	Carbon disulfide	ND	570	ug/kg	
56-23-5	Carbon tetrachloride	ND	230	ug/kg	
108-90-7	Chlorobenzene	ND	230	ug/kg	
75-00-3	Chloroethane	ND	570	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	570	ug/kg	
67-66-3	Chloroform	ND	230	ug/kg	
74-87-3	Chloromethane	ND	570	ug/kg	
124-48-1	Dibromochloromethane	ND	230	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	230	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	230	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	230	ug/kg	
75-34-3	1,1-Dichloroethane	ND	230	ug/kg	
107-06-2	1,2-Dichloroethane	ND	230	ug/kg	
75-35-4	1,1-Dichloroethene	ND	230	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	230	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	230	ug/kg	
78-87-5	1,2-Dichloropropane	ND	230	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	230	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	230	ug/kg	
100-41-4	Ethylbenzene	702	230	ug/kg	
591-78-6	2-Hexanone	ND	1100	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	570	ug/kg	
75-09-2	Methylene chloride	ND	230	ug/kg	
100-42-5	Styrene	ND	570	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	230	ug/kg	
127-18-4	Tetrachloroethene	ND	230	ug/kg	
108-88-3	Toluene	3690	570	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	230	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	230	ug/kg	
79-01-6	Trichloroethene	ND	230	ug/kg	
75-69-4	Trichlorofluoromethane	ND	230	ug/kg	
108-05-4	Vinyl Acetate	ND	570	ug/kg	
75-01-4	Vinyl chloride	ND	230	ug/kg	
1330-20-7	Xylene (total)	735	230	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	96%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02173.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	440	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	890	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	890	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	890	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1800	ug/kg	UJ
534-52-1	4,6-Dinitro-o-cresol	ND	890	ug/kg	
95-48-7	2-Methylphenol	ND	890	ug/kg	
	3&4-Methylphenol	ND	890	ug/kg	
88-75-5	2-Nitrophenol	ND	890	ug/kg	
100-02-7	4-Nitrophenol	ND	1800	ug/kg	
87-86-5	Pentachlorophenol	ND	890	ug/kg	
108-95-2	Phenol	ND	440	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	890	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	890	ug/kg	
83-32-9	Acenaphthene	788	180	ug/kg	
208-96-8	Acenaphthylene	ND	180	ug/kg	
120-12-7	Anthracene	532	180	ug/kg	
56-55-3	Benzo(a)anthracene	470	180	ug/kg	
50-32-8	Benzo(a)pyrene	324	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	299	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	440	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	440	ug/kg	
91-58-7	2-Chloronaphthalene	ND	440	ug/kg	
106-47-8	4-Chloroaniline	ND	890	ug/kg	
86-74-8	Carbazole	ND	180	ug/kg	
218-01-9	Chrysene	343	180	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	440	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	440	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	440	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	440	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	440	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	440	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	440	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	890	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	890	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	440	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	ug/kg	
132-64-9	Dibenzofuran	ND	180	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	440	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	440	ug/kg	
84-66-2	Diethyl phthalate	ND	440	ug/kg	
131-11-3	Dimethyl phthalate	ND	440	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	440	ug/kg	
206-44-0	Fluoranthene	802	180	ug/kg	
86-73-7	Fluorene	479	180	ug/kg	
118-74-1	Hexachlorobenzene	ND	440	ug/kg	
87-68-3	Hexachlorobutadiene	ND	440	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND UJ	890	ug/kg	
67-72-1	Hexachloroethane	ND	440	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	ug/kg	
78-59-1	Isophorone	ND	440	ug/kg	
91-57-6	2-Methylnaphthalene	872	180	ug/kg	
88-74-4	2-Nitroaniline	ND	890	ug/kg	
99-09-2	3-Nitroaniline	ND	890	ug/kg	
100-01-6	4-Nitroaniline	ND	890	ug/kg	
91-20-3	Naphthalene	2580	180	ug/kg	
98-95-3	Nitrobenzene	ND	440	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	440	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	440	ug/kg	
85-01-8	Phenanthrene	1940	180	ug/kg	
129-00-0	Pyrene	1370	180	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	440	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	91%		30-130%
4165-62-2	Phenol-d5	96%		30-130%
118-79-6	2,4,6-Tribromophenol	71%		30-130%
4165-60-0	Nitrobenzene-d5	106%		30-130%
321-60-8	2-Fluorobiphenyl	88%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	99%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38266.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	60	ug/kg	
11104-28-2	Aroclor 1221	ND	60	ug/kg	
11141-16-5	Aroclor 1232	ND	60	ug/kg	
53469-21-9	Aroclor 1242	ND	60	ug/kg	
12672-29-6	Aroclor 1248	ND	60	ug/kg	
11097-69-1	Aroclor 1254	ND	60	ug/kg	
11096-82-5	Aroclor 1260	ND	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		30-150%
877-09-8	Tetrachloro-m-xylene	48%		30-150%
2051-24-3	Decachlorobiphenyl	50%		30-150%
2051-24-3	Decachlorobiphenyl	42%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	16600	27	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	<1.3 UJ	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	12.2	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	34.7 J	6.7	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.92	0.54	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	<0.54	0.54	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	2640 J	670	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	35.8	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	13.8	6.7	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	14.7	3.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	39600 J	13	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	13.4	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	7870	670	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	368	2.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	<0.057	0.057	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	29.2	5.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	3780	670	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	<1.3	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	<0.67	0.67	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	4380	670	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	<1.3	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	45.8	1.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	78.5 J	2.7	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17196
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23111

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G138015.D	1	05/29/14	JM	n/a	n/a	MSG5271
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.05 g	10.0 ml	20.0 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	7500	ug/kg	
107-02-8	Acrolein	ND	19000	ug/kg	
107-13-1	Acrylonitrile	ND	19000	ug/kg	
71-43-2	Benzene	ND	370	ug/kg	
75-27-4	Bromodichloromethane	ND	1500	ug/kg	
75-25-2	Bromoform	ND	1500	ug/kg	
74-83-9	Bromomethane	ND	1500	ug/kg	
78-93-3	2-Butanone (MEK)	ND	7500	ug/kg	
75-15-0	Carbon disulfide	ND	3700	ug/kg	
56-23-5	Carbon tetrachloride	ND	1500	ug/kg	
108-90-7	Chlorobenzene	ND	1500	ug/kg	
75-00-3	Chloroethane	ND	3700	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	3700	ug/kg	
67-66-3	Chloroform	ND	1500	ug/kg	
74-87-3	Chloromethane	ND	3700	ug/kg	
124-48-1	Dibromochloromethane	ND	1500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1500	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1500	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1500	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1500	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1500	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1500	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1500	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1500	ug/kg	
100-41-4	Ethylbenzene	3370	1500	ug/kg	
591-78-6	2-Hexanone	ND	7500	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	3700	ug/kg	
75-09-2	Methylene chloride	ND	1500	ug/kg	
100-42-5	Styrene	ND	3700	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1500	ug/kg	
127-18-4	Tetrachloroethene	ND	1500	ug/kg	
108-88-3	Toluene	ND	3700	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1500	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1500	ug/kg	
79-01-6	Trichloroethene	ND	1500	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1500	ug/kg	
108-05-4	Vinyl Acetate	ND	3700	ug/kg	
75-01-4	Vinyl chloride	ND	1500	ug/kg	
1330-20-7	Xylene (total)	4550	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02181.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2	X02270.D	20	05/29/14	WK	05/23/14	OP38239	MSX82

	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2	20.9 g	1.0 ml

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	450	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	910	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	910	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	910	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1800	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	910	ug/kg	
95-48-7	2-Methylphenol	ND	910	ug/kg	
	3&4-Methylphenol	ND	910	ug/kg	
88-75-5	2-Nitrophenol	ND	910	ug/kg	
100-02-7	4-Nitrophenol	ND	1800	ug/kg	
87-86-5	Pentachlorophenol	ND	910	ug/kg	
108-95-2	Phenol	ND	450	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	910	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	910	ug/kg	
83-32-9	Acenaphthene	3060 J	180	ug/kg	
208-96-8	Acenaphthylene	469 J	180	ug/kg	
120-12-7	Anthracene	1080 J	180	ug/kg	
56-55-3	Benzo(a)anthracene	919 J	180	ug/kg	
50-32-8	Benzo(a)pyrene	718 J	180	ug/kg	
205-99-2	Benzo(b)fluoranthene	550 J	180	ug/kg	
191-24-2	Benzo(g,h,i)perylene	273 J	180	ug/kg	
207-08-9	Benzo(k)fluoranthene	181 J	180	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	450	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	450	ug/kg	
91-58-7	2-Chloronaphthalene	ND	450	ug/kg	
106-47-8	4-Chloroaniline	ND	910	ug/kg	
86-74-8	Carbazole	ND	180	ug/kg	
218-01-9	Chrysene	665 J	180	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	450	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	450	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	450	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	450	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	450	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	450	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	450	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	910	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	910	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	450	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND UJ	180	ug/kg	
132-64-9	Dibenzofuran	ND UJ	180	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	450	ug/kg	
84-66-2	Diethyl phthalate	ND	450	ug/kg	
131-11-3	Dimethyl phthalate	ND	450	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	450	ug/kg	
206-44-0	Fluoranthene	1140 J	180	ug/kg	
86-73-7	Fluorene	1780 J	180	ug/kg	
118-74-1	Hexachlorobenzene	ND	450	ug/kg	
87-68-3	Hexachlorobutadiene	ND	450	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	910	ug/kg	
67-72-1	Hexachloroethane	ND	450	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	213 J	180	ug/kg	
78-59-1	Isophorone	ND	450	ug/kg	
91-57-6	2-Methylnaphthalene	8480 J	180	ug/kg	
88-74-4	2-Nitroaniline	ND	910	ug/kg	
99-09-2	3-Nitroaniline	ND	910	ug/kg	
100-01-6	4-Nitroaniline	ND	910	ug/kg	
91-20-3	Naphthalene	44600 J	3600	ug/kg	
98-95-3	Nitrobenzene	ND	450	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	450	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	450	ug/kg	
85-01-8	Phenanthrene	4090 J	180	ug/kg	
129-00-0	Pyrene	2020 J	180	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	450	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	88%	83%	30-130%
4165-62-2	Phenol-d5	94%	83%	30-130%
118-79-6	2,4,6-Tribromophenol	71%	61%	30-130%
4165-60-0	Nitrobenzene-d5	106%	105%	30-130%
321-60-8	2-Fluorobiphenyl	86%	99%	30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	102%	127%	30-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38263.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	59	ug/kg	
11104-28-2	Aroclor 1221	ND	59	ug/kg	
11141-16-5	Aroclor 1232	ND	59	ug/kg	
53469-21-9	Aroclor 1242	ND	59	ug/kg	
12672-29-6	Aroclor 1248	ND	59	ug/kg	
11097-69-1	Aroclor 1254	ND	59	ug/kg	
11096-82-5	Aroclor 1260	ND	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		30-150%
877-09-8	Tetrachloro-m-xylene	51%		30-150%
2051-24-3	Decachlorobiphenyl	58%		30-150%
2051-24-3	Decachlorobiphenyl	53%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8A	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	20200	30	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	<1.5 UJ	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	9.0	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	41.3 J	7.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	1.0	0.61	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	<0.61	0.61	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	2580 J	760	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	38.8	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	12.6	7.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	14.2	3.8	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	37500 J	15	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	15.4	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	9000	760	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	452	2.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	<0.061	0.061	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	31.0	6.1	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	4680	760	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	<1.5	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	<0.76	0.76	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	2900	760	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	<1.5	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	42.7	1.5	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	85.2 J	3.0	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17196
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23111

RL = Reporting Limit

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G138013.D	1	05/29/14	JM	n/a	n/a	MSG5271
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	12.8 g	10.0 ml	100 ul
Run #2			

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	560	ug/kg	
107-02-8	Acrolein	ND	1400	ug/kg	
107-13-1	Acrylonitrile	ND	1400	ug/kg	
71-43-2	Benzene	195	28	ug/kg	
75-27-4	Bromodichloromethane	ND	110	ug/kg	
75-25-2	Bromoform	ND	110	ug/kg	
74-83-9	Bromomethane	ND	110	ug/kg	
78-93-3	2-Butanone (MEK)	ND	560	ug/kg	
75-15-0	Carbon disulfide	ND	280	ug/kg	
56-23-5	Carbon tetrachloride	ND	110	ug/kg	
108-90-7	Chlorobenzene	ND	110	ug/kg	
75-00-3	Chloroethane	ND	280	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	280	ug/kg	
67-66-3	Chloroform	ND	110	ug/kg	
74-87-3	Chloromethane	ND	280	ug/kg	
124-48-1	Dibromochloromethane	ND	110	ug/kg	
95-50-1	1,2-Dichlorobenzene	196	110	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	110	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	110	ug/kg	
75-34-3	1,1-Dichloroethane	ND	110	ug/kg	
107-06-2	1,2-Dichloroethane	ND	110	ug/kg	
75-35-4	1,1-Dichloroethene	ND	110	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	110	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	110	ug/kg	
78-87-5	1,2-Dichloropropane	ND	110	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	110	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	110	ug/kg	
100-41-4	Ethylbenzene	149	110	ug/kg	
591-78-6	2-Hexanone	ND	560	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	280	ug/kg	
75-09-2	Methylene chloride	ND	110	ug/kg	
100-42-5	Styrene	ND	280	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8260C	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

VOA PPL/TCL Combined List

CAS No.	Compound	Result	RL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	ug/kg	
127-18-4	Tetrachloroethene	ND	110	ug/kg	
108-88-3	Toluene	ND	280	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	110	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	110	ug/kg	
79-01-6	Trichloroethene	ND	110	ug/kg	
75-69-4	Trichlorofluoromethane	ND	110	ug/kg	
108-05-4	Vinyl Acetate	ND	280	ug/kg	UJ
75-01-4	Vinyl chloride	ND	110	ug/kg	
1330-20-7	Xylene (total)	759	110	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		70-130%
2037-26-5	Toluene-D8	119%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X02182.D	5	05/28/14	WK	05/23/14	OP38239	MSX79
Run #2							

	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	1500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2900	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2900	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	5900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	2900	ug/kg	
	3&4-Methylphenol	ND	2900	ug/kg	
88-75-5	2-Nitrophenol	ND	2900	ug/kg	
100-02-7	4-Nitrophenol	ND	5900	ug/kg	
87-86-5	Pentachlorophenol	ND	2900	ug/kg	
108-95-2	Phenol	ND	1500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2900	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2900	ug/kg	
83-32-9	Acenaphthene	ND	590	ug/kg	
208-96-8	Acenaphthylene	ND	590	ug/kg	
120-12-7	Anthracene	ND	590	ug/kg	
56-55-3	Benzo(a)anthracene	841	590	ug/kg	
50-32-8	Benzo(a)pyrene	653	590	ug/kg	
205-99-2	Benzo(b)fluoranthene	829	590	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	590	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	590	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	ug/kg	
106-47-8	4-Chloroaniline	ND	2900	ug/kg	
86-74-8	Carbazole	ND	590	ug/kg	
218-01-9	Chrysene	694	590	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2900	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	2900	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	590	ug/kg	
132-64-9	Dibenzofuran	ND	590	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	ug/kg	
206-44-0	Fluoranthene	1830	590	ug/kg	
86-73-7	Fluorene	ND	590	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2900	ug/kg	
67-72-1	Hexachloroethane	ND	1500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	590	ug/kg	
78-59-1	Isophorone	ND	1500	ug/kg	
91-57-6	2-Methylnaphthalene	2000	590	ug/kg	
88-74-4	2-Nitroaniline	ND	2900	ug/kg	
99-09-2	3-Nitroaniline	ND	2900	ug/kg	
100-01-6	4-Nitroaniline	ND	2900	ug/kg	
91-20-3	Naphthalene	900	590	ug/kg	
98-95-3	Nitrobenzene	ND	1500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	ug/kg	
85-01-8	Phenanthrene	2340	590	ug/kg	
129-00-0	Pyrene	2010	590	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		30-130%
4165-62-2	Phenol-d5	90%		30-130%
118-79-6	2,4,6-Tribromophenol	65%		30-130%
4165-60-0	Nitrobenzene-d5	98%		30-130%
321-60-8	2-Fluorobiphenyl	86%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8270D SW846 3546	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	92%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	SW846 8082A SW846 3546	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK38270.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	37	ug/kg	
11104-28-2	Aroclor 1221	ND	37	ug/kg	
11141-16-5	Aroclor 1232	ND	37	ug/kg	
53469-21-9	Aroclor 1242	ND	37	ug/kg	
12672-29-6	Aroclor 1248	ND	37	ug/kg	
11097-69-1	Aroclor 1254	ND	37	ug/kg	
11096-82-5	Aroclor 1260	49.5	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		30-150%
877-09-8	Tetrachloro-m-xylene	69%		30-150%
2051-24-3	Decachlorobiphenyl	64%		30-150%
2051-24-3	Decachlorobiphenyl	59%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9A	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
		Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4720	19	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Antimony	<0.93 UJ	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Arsenic	10	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Barium	117 J	4.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Beryllium	<0.37	0.37	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cadmium	0.46	0.37	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Calcium	11400 J	460	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Chromium	12.6	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Cobalt	5.1	4.6	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Copper	92.7	2.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Iron	13900 J	9.3	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Lead	207	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Magnesium	2350	460	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Manganese	280	1.4	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.44	0.038	mg/kg	1	05/27/14	05/27/14	SA	SW846 7471B [1]	SW846 7471B [3]
Nickel	10.8	3.7	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Potassium	710	460	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Selenium	<0.93	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Silver	<0.46	0.46	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Sodium	<460	460	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Thallium	<0.93	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Vanadium	19.9	0.93	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]
Zinc	255 J	1.9	mg/kg	1	05/28/14	05/28/14	EAL	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA17180
(2) Instrument QC Batch: MA17196
(3) Prep QC Batch: MP23102
(4) Prep QC Batch: MP23111

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02599A.D	20	06/11/14	SZ	05/24/14	OP38247	MSZ105
Run #2	Z02599.D	20	06/11/14	SZ	05/24/14	OP38386	MSZ104
Run #3	Z02599B.D	20	06/11/14	SZ	05/24/14	OP38247	MSZ110

	Initial Weight	Final Volume
Run #1	5.45 g	2.0 ml
Run #2	5.45 g	2.0 ml
Run #3	5.45 g	2.0 ml

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
493-02-7	trans-Decalin	1050	110	ug/kg	
493-01-6	cis-Decalin	273	110	ug/kg	
	C1-Decalins	5120	110	ug/kg	
	C2-Decalins	7270	110	ug/kg	
	C3-Decalins	5060	110	ug/kg	
	C4-Decalins	7440	110	ug/kg	
11095-43-5	Benzo(b)thiophene	1990	110	ug/kg	
	C1-Benzo(b)thiophenes	5340	110	ug/kg	
	C2-Benzo(b)thiophenes	12800	110	ug/kg	
	C3-Benzo(b)thiophenes	7440	110	ug/kg	
	C4-Benzo(b)thiophenes	3560	110	ug/kg	
91-20-3	Naphthalene	38200	110	ug/kg	
91-57-6	2-Methylnaphthalene	11200	110	ug/kg	
90-12-0	1-Methylnaphthalene	63200	110	ug/kg	
	C1-Naphthalenes	49500	110	ug/kg	
	C2-Naphthalenes	106000	110	ug/kg	
581-42-0	2,6-Dimethylnaphthalene	23500 [a]	110	ug/kg	
	C3-Naphthalenes	49400	110	ug/kg	
2245-38-7	2,3,5-Trimethylnaphthalene	6530 [a]	110	ug/kg	
	C4-Naphthalenes	20700	110	ug/kg	
208-96-8	Acenaphthylene	18900	110	ug/kg	
83-32-9	Acenaphthene	80900	110	ug/kg	
132-64-9	Dibenzofuran	6740	110	ug/kg	
86-73-7	Fluorene	45600	110	ug/kg	
	C1-Fluorenes	26400	110	ug/kg	
	C2-Fluorenes	18000	110	ug/kg	
	C3-Fluorenes	11900	110	ug/kg	
132-65-0	Dibenzothiophene	18900	110	ug/kg	
	C1-Dibenzothiophenes	21400	110	ug/kg	
	C2-Dibenzothiophenes	18500	110	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C3-Dibenzothiophenes	10200	110	ug/kg	
	C4-Dibenzothiophenes	4620	110	ug/kg	
85-01-8	Phenanthrene	145000	110	ug/kg	
120-12-7	Anthracene	50900	110	ug/kg	
	C1-Phenanthrenes/Anthracene	91500	110	ug/kg	
832-69-9	1-Methylphenanthrene	15700 [a]	110	ug/kg	
	C2-Phenanthrenes/Anthracene	41400	110	ug/kg	
	C3-Phenanthrenes/Anthracene	18200	110	ug/kg	
	C4-Phenanthrenes/Anthracene	9110	110	ug/kg	
483-65-8	Retene	27200	110	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	5890	110	ug/kg	
206-44-0	Fluoranthene	58600	110	ug/kg	
129-00-0	Pyrene	80300	110	ug/kg	
	C1-Fluoranthenes/Pyrenes	61100	110	ug/kg	
	C2-Fluoranthenes/Pyrenes	20800	110	ug/kg	
	C3-Fluoranthenes/Pyrenes	9600	110	ug/kg	
56-55-3	Benzo(a)anthracene	29600	110	ug/kg	
218-01-9	Chrysene	30100	110	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	26600	110	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	10600	110	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	4520	110	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	2650	110	ug/kg	
205-99-2	Benzo(b)fluoranthene	12300	110	ug/kg	
207-08-9	Benzo(k)fluoranthene	13800	110	ug/kg	
192-97-2	Benzo(e)pyrene	12900	110	ug/kg	
50-32-8	Benzo(a)pyrene	23100	110	ug/kg	
198-55-0	Perylene	3600	110	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	7480	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2990	110	ug/kg	
191-24-2	Benzo(g,h,i)perylene	8920	110	ug/kg	
	C25 Tricyclic Terpane-22R	253 [b]	110	ug/kg	
	C24 Tetracyclic Terpane	206 [b]	110	ug/kg	
	C26 Tricyclic Terpane-22S	309 [b]	110	ug/kg	
	C26 Tricyclic Terpane-22R	ND [b]	110	ug/kg	
	C28 Tricyclic Terpane-22S	262 [b]	110	ug/kg	
	C28 Tricyclic Terpane-22R	251 [b]	110	ug/kg	
	C29 Tricyclic Terpane-22S	235 [b]	110	ug/kg	
	C29 Tricyclic Terpane-22R	351 [b]	110	ug/kg	
	18a-22,29,30-Trisnorneohopan	749 [b]	110	ug/kg	
	C30 Tricyclic Terpane-22S	224 [b]	110	ug/kg	

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E = Indicates value exceeds calibration range
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C30 Tricyclic Terpane-22R	316 b	110	ug/kg	
	17a(H)-22,29,30-Trisnorhopan	800 b	110	ug/kg	
	30-Norhopane	1910 b	110	ug/kg	
	18a(H)-30-Norneohopane-C29	647 b	110	ug/kg	
	17a(H)-Diahopane	205 b	110	ug/kg	
	30-Normoretane	370 b	110	ug/kg	
	18a(H)&18b(H)-Oleananes	315 b	110	ug/kg	
	Hopane	3360 b	110	ug/kg	
	Moretane	511 b	110	ug/kg	
	30-Homohopane-22S	889 b	110	ug/kg	
	30-Homohopane-22R	852 b	110	ug/kg	
559-65-9	Gammacerane	ND b	110	ug/kg	
	30,31-Bishomohopane-22S	1490 b	110	ug/kg	
	30,31-Bishomohopane-22R	1700 b	110	ug/kg	
	30,31-Trishomohopane-22S	310 b	110	ug/kg	
	30,31-Trishomohopane-22R	501 b	110	ug/kg	
	Tetrakishomohopane-22S	217 b	110	ug/kg	
	Tetrakishomohopane-22R	144 b	110	ug/kg	
	Pentakishomohopane-22S	186 b	110	ug/kg	
	Pentakishomohopane-22R	ND b	110	ug/kg	
	13b(H),17a(H)-20S-Diacholest	ND b	110	ug/kg	
	13b(H),17a(H)-20R-Diacholest	819 b	110	ug/kg	
	13b,17a-20S-Methyldiacholest	486 b	110	ug/kg	
	14a(H),17a(H)-20S-Cholestane	2020 b	110	ug/kg	
	14b(H),17b(H)-20R-Cholestan	992 b	110	ug/kg	
	14b(H),17b(H)-20S-Cholestan	901 b	110	ug/kg	
	14a(H),17a(H)-20R-Cholestan	4040 b	110	ug/kg	
	13b,17a-20R-Ethyldiacholesta	260 b	110	ug/kg	
	13a,17b-20S-Ethyldiacholestan	277 b	110	ug/kg	
	14a,17a-20S-Methylcholestane	338 b	110	ug/kg	
	14b,17b-20R-Methylcholestan	1250 b	110	ug/kg	
	14b,17b-20S-Methylcholestane	954 b	110	ug/kg	
	14a,17a-20R-Methylcholestane	1190 b	110	ug/kg	
	14a(H),17a(H)-20S-Ethylchole	1310 b	110	ug/kg	
	14b(H),17b(H)-20R-Ethylchol	1520 b	110	ug/kg	
	14b(H),17b(H)-20S-Ethylchole	910 b	110	ug/kg	
	14a(H),17a(H)-20R-Ethylchole	2760 b	110	ug/kg	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
2037-26-5	Toluene-D8	65%			40-140%
1146-65-2	Naphthalene-d8	65%	69%		40-140%
1517-22-2	Phenanthrene-d10	73%	72%		40-140%
	Perylene-d12	84%	94%		40-140%

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44455.D	1	05/28/14	RP	05/24/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.45 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	C-8	ND UJ	0.54	mg/kg	S
	C-9	ND	0.54	mg/kg	
	C-10	ND	0.54	mg/kg	
	C-11	ND	0.54	mg/kg	
	C-12	ND	0.54	mg/kg	
	C-13	ND	0.54	mg/kg	
3891-98-3	2,6,10-trimethyldodecane (138	8.39 J	0.54	mg/kg	
	C-14	ND UJ	0.54	mg/kg	
3891-99-4	2,6,10-trimethyltridecane (147	16.4 J	0.54	mg/kg	
	C-15	ND UJ	0.54	mg/kg	
	C-16	ND UJ	0.54	mg/kg	
3892-00-0	2,6,10-trimethylpentadecane (1	22.1 J	0.54	mg/kg	
	C-17	ND UJ	0.54	mg/kg	
1921-70-6	Pristane	29.3 J	0.54	mg/kg	
	C-18	ND UJ	0.54	mg/kg	
638-36-8	Phytane	27.5 J	0.54	mg/kg	
	C-19	ND UJ	0.54	mg/kg	
	C-20	ND	0.54	mg/kg	
	C-21	ND	0.54	mg/kg	
	C-22	ND	0.54	mg/kg	
	C-23	ND	0.54	mg/kg	
	C-24	ND	0.54	mg/kg	
	C-25	ND	0.54	mg/kg	
	C-26	ND	0.54	mg/kg	
	C-27	ND	0.54	mg/kg	
	C-28	ND	0.54	mg/kg	
	C-29	ND	0.54	mg/kg	
	C-30	ND	0.54	mg/kg	
	C-31	ND	0.54	mg/kg	
	C-32	ND	0.54	mg/kg	
	C-33	ND	0.54	mg/kg	
	C-34	ND	0.54	mg/kg	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

CAS No.	Compound	Result	RL	Units	Q
	C-35	ND UJ	0.54	mg/kg	s
	C-36	ND	0.54	mg/kg	
	C-37	ND	0.54	mg/kg	
	C-38	ND	0.54	mg/kg	
	C-39	ND	0.54	mg/kg	
	C-40	ND	0.54	mg/kg	
	TPH (C8-C40)	12100 J	54	mg/kg	s

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	38% [a]		40-140%

(a) Low Surrogate Recovery due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02613.D	10	06/12/14	SZ	05/24/14	OP38386	MSZ104
Run #2	Z02605A.D	100	06/11/14	SZ	05/24/14	OP38247	MSZ105
Run #3	Z02605B.D	100	06/11/14	SZ	05/24/14	OP38247	MSZ110

	Initial Weight	Final Volume
Run #1	5.22 g	2.0 ml
Run #2	5.22 g	2.0 ml
Run #3	5.22 g	2.0 ml

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
493-02-7	trans-Decalin	502 [a]	450	ug/kg	
493-01-6	cis-Decalin	ND [a]	450	ug/kg	
	C1-Decalins	2410 [a]	450	ug/kg	
	C2-Decalins	4040 [a]	450	ug/kg	
	C3-Decalins	3690 [a]	450	ug/kg	
	C4-Decalins	5870 [a]	450	ug/kg	
11095-43-5	Benzo(b)thiophene	458 [a]	450	ug/kg	
	C1-Benzo(b)thiophenes	2760 [a]	450	ug/kg	
	C2-Benzo(b)thiophenes	5360 [a]	450	ug/kg	
	C3-Benzo(b)thiophenes	4770 [a]	450	ug/kg	
	C4-Benzo(b)thiophenes	2590 [a]	450	ug/kg	
91-20-3	Naphthalene	27100 [a]	450	ug/kg	
91-57-6	2-Methylnaphthalene	18300 [a]	450	ug/kg	
90-12-0	1-Methylnaphthalene	62100 [a]	450	ug/kg	
	C1-Naphthalenes	54000 [a]	450	ug/kg	
	C2-Naphthalenes	92000 [a]	450	ug/kg	
581-42-0	2,6-Dimethylnaphthalene	20400 [b]	450	ug/kg	
	C3-Naphthalenes	51000 [a]	450	ug/kg	
2245-38-7	2,3,5-Trimethylnaphthalene	6200 [b]	450	ug/kg	
	C4-Naphthalenes	22200 [a]	450	ug/kg	
208-96-8	Acenaphthylene	34900 [a]	450	ug/kg	
83-32-9	Acenaphthene	95600 [a]	450	ug/kg	
132-64-9	Dibenzofuran	3690 [a]	450	ug/kg	
86-73-7	Fluorene	79900 [a]	450	ug/kg	
	C1-Fluorenes	54300 [a]	450	ug/kg	
	C2-Fluorenes	36400 [a]	450	ug/kg	
	C3-Fluorenes	17800 [a]	450	ug/kg	
132-65-0	Dibenzothiophene	19600 [a]	450	ug/kg	
	C1-Dibenzothiophenes	24700 [a]	450	ug/kg	
	C2-Dibenzothiophenes	19900 [a]	450	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C3-Dibenzothiophenes	10600 [a]	450	ug/kg	
	C4-Dibenzothiophenes	3640 [a]	450	ug/kg	
85-01-8	Phenanthrene	389000 [a]	450	ug/kg	
120-12-7	Anthracene	122000 [a]	450	ug/kg	
	C1-Phenanthrenes/Anthracene	250000 [a]	450	ug/kg	
832-69-9	1-Methylphenanthrene	38700 [b]	450	ug/kg	
	C2-Phenanthrenes/Anthracene	99900 [a]	450	ug/kg	
	C3-Phenanthrenes/Anthracene	31300 [a]	450	ug/kg	
	C4-Phenanthrenes/Anthracene	7430 [a]	450	ug/kg	
483-65-8	Retene	2270 [a]	450	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	7540 [a]	450	ug/kg	
206-44-0	Fluoranthene	150000 [a]	450	ug/kg	
129-00-0	Pyrene	212000 [a]	450	ug/kg	
	C1-Fluoranthenes/Pyrenes	154000 [a]	450	ug/kg	
	C2-Fluoranthenes/Pyrenes	47400 [a]	450	ug/kg	
	C3-Fluoranthenes/Pyrenes	14900 [a]	450	ug/kg	
56-55-3	Benzo(a)anthracene	69700 [a]	450	ug/kg	
218-01-9	Chrysene	71900 [a]	450	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	50400 [a]	450	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	15500 [a]	450	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	5340 [a]	450	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	2680 [a]	450	ug/kg	
205-99-2	Benzo(b)fluoranthene	21700 [a]	450	ug/kg	
207-08-9	Benzo(k)fluoranthene	24500 [a]	450	ug/kg	
192-97-2	Benzo(e)pyrene	26500 [a]	450	ug/kg	
50-32-8	Benzo(a)pyrene	43900 [a]	450	ug/kg	
198-55-0	Perylene	5910 [a]	450	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	11600 [a]	450	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	4870 [a]	450	ug/kg	
191-24-2	Benzo(g,h,i)perylene	16500 [a]	450	ug/kg	
	C25 Tricyclic Terpane-22R	91.8	45	ug/kg	
	C24 Tetracyclic Terpane	73.9	45	ug/kg	
	C26 Tricyclic Terpane-22S	65.3	45	ug/kg	
	C26 Tricyclic Terpane-22R	248	45	ug/kg	
	C28 Tricyclic Terpane-22S	59.5	45	ug/kg	
	C28 Tricyclic Terpane-22R	73.2	45	ug/kg	
	C29 Tricyclic Terpane-22S	65.0	45	ug/kg	
	C29 Tricyclic Terpane-22R	58.9	45	ug/kg	
	18a-22,29,30-Trisnorneohopan	176	45	ug/kg	
	C30 Tricyclic Terpane-22S	57.0	45	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C30 Tricyclic Terpane-22R	75.8	45	ug/kg	
	17a(H)-22,29,30-Trisnorhopan	263	45	ug/kg	
	30-Norhopane	611	45	ug/kg	
	18a(H)-30-Norneohopane-C29	199	45	ug/kg	
	17a(H)-Diahopane	63.6	45	ug/kg	
	30-Normoretane	130	45	ug/kg	
	18a(H)&18b(H)-Oleananes	91.6	45	ug/kg	
	Hopane	1020	45	ug/kg	
	Moretane	167	45	ug/kg	
	30-Homohopane-22S	286	45	ug/kg	
	30-Homohopane-22R	254	45	ug/kg	
559-65-9	Gammacerane	ND	45	ug/kg	
	30,31-Bishomohopane-22S	185	45	ug/kg	
	30,31-Bishomohopane-22R	284	45	ug/kg	
	30,31-Trishomohopane-22S	108	45	ug/kg	
	30,31-Trishomohopane-22R	124	45	ug/kg	
	Tetrakishomohopane-22S	58.8	45	ug/kg	
	Tetrakishomohopane-22R	55.3	45	ug/kg	
	Pentakishomohopane-22S	64.0	45	ug/kg	
	Pentakishomohopane-22R	ND	45	ug/kg	
	13b(H),17a(H)-20S-Diacholest	392	45	ug/kg	
	13b(H),17a(H)-20R-Diacholest	166	45	ug/kg	
	13b,17a-20S-Methyldiacholest	140	45	ug/kg	
	14a(H),17a(H)-20S-Cholestane	523	45	ug/kg	
	14b(H),17b(H)-20R-Cholestan	215	45	ug/kg	
	14b(H),17b(H)-20S-Cholestan	215	45	ug/kg	
	14a(H),17a(H)-20R-Cholestan	538	45	ug/kg	
	13b,17a-20R-Ethyldiacholesta	62.7	45	ug/kg	
	13a,17b-20S-Ethyldiacholestan	50.0	45	ug/kg	
	14a,17a-20S-Methylcholestane	103	45	ug/kg	
	14b,17b-20R-Methylcholestan	186	45	ug/kg	
	14b,17b-20S-Methylcholestane	189	45	ug/kg	
	14a,17a-20R-Methylcholestane	288	45	ug/kg	
	14a(H),17a(H)-20S-Ethylchole	256	45	ug/kg	
	14b(H),17b(H)-20R-Ethylchol	359	45	ug/kg	
	14b(H),17b(H)-20S-Ethylchole	212	45	ug/kg	
	14a(H),17a(H)-20R-Ethylchole	320	45	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
2037-26-5	Toluene-D8		57%		40-140%
1146-65-2	Naphthalene-d8	57%	58%		40-140%
1517-22-2	Phenanthrene-d10	61%	69%		40-140%
	Perylene-d12	102%	104%		40-140%

(a) Result is from Run# 2
(b) Result is from Run# 3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44469.D	10	05/29/14	RP	05/24/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.22 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	C-8	ND UJ	4.5	mg/kg	S
	C-9	ND	4.5	mg/kg	
	C-10	ND	4.5	mg/kg	
	C-11	ND	4.5	mg/kg	
	C-12	ND	4.5	mg/kg	
	C-13	ND	4.5	mg/kg	
3891-98-3	2,6,10-trimethyldodecane (138	ND	4.5	mg/kg	
	C-14	ND	4.5	mg/kg	
3891-99-4	2,6,10-trimethyltridecane (147	ND	4.5	mg/kg	
	C-15	ND	4.5	mg/kg	
	C-16	ND	4.5	mg/kg	
3892-00-0	2,6,10-trimethylpentadecane (1	ND	4.5	mg/kg	
	C-17	ND	4.5	mg/kg	
1921-70-6	Pristane	ND	4.5	mg/kg	
	C-18	ND	4.5	mg/kg	
638-36-8	Phytane	ND	4.5	mg/kg	
	C-19	ND	4.5	mg/kg	
	C-20	ND	4.5	mg/kg	
	C-21	ND	4.5	mg/kg	
	C-22	ND	4.5	mg/kg	
	C-23	ND	4.5	mg/kg	
	C-24	ND	4.5	mg/kg	
	C-25	ND	4.5	mg/kg	
	C-26	ND	4.5	mg/kg	
	C-27	ND	4.5	mg/kg	
	C-28	ND	4.5	mg/kg	
	C-29	ND	4.5	mg/kg	
	C-30	ND	4.5	mg/kg	
	C-31	ND	4.5	mg/kg	
	C-32	ND	4.5	mg/kg	
	C-33	ND	4.5	mg/kg	
	C-34	ND	4.5	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5R	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

CAS No.	Compound	Result	RL	Units	Q
	C-35	ND UJ	4.5	mg/kg	5
	C-36	ND	4.5	mg/kg	
	C-37	ND	4.5	mg/kg	
	C-38	ND	4.5	mg/kg	
	C-39	ND	4.5	mg/kg	
	C-40	ND	4.5	mg/kg	
	TPH (C8-C40)	4570 J	450	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	28% [a]		40-140%

(a) Low Surrogate Recovery due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z02606A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
Run #2	Z02606.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104
Run #3	Z02606B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

	Initial Weight	Final Volume
Run #1	5.36 g	2.0 ml
Run #2	5.36 g	2.0 ml
Run #3	5.36 g	2.0 ml

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
493-02-7	trans-Decalin	2050	22	ug/kg	
493-01-6	cis-Decalin	353	22	ug/kg	
	C1-Decalins	4450	22	ug/kg	
	C2-Decalins	3180	22	ug/kg	
	C3-Decalins	1210	22	ug/kg	
	C4-Decalins	1290	22	ug/kg	
11095-43-5	Benzo(b)thiophene	ND	22	ug/kg	
	C1-Benzo(b)thiophenes	412	22	ug/kg	
	C2-Benzo(b)thiophenes	281	22	ug/kg	
	C3-Benzo(b)thiophenes	371	22	ug/kg	
	C4-Benzo(b)thiophenes	198	22	ug/kg	
91-20-3	Naphthalene	905	22	ug/kg	
91-57-6	2-Methylnaphthalene	1950	22	ug/kg	
90-12-0	1-Methylnaphthalene	2620	22	ug/kg	
	C1-Naphthalenes	2990	22	ug/kg	
	C2-Naphthalenes	3840	22	ug/kg	
581-42-0	2,6-Dimethylnaphthalene	710 [a]	22	ug/kg	
	C3-Naphthalenes	3070	22	ug/kg	
2245-38-7	2,3,5-Trimethylnaphthalene	334 [a]	22	ug/kg	
	C4-Naphthalenes	1800	22	ug/kg	
208-96-8	Acenaphthylene	171	22	ug/kg	
83-32-9	Acenaphthene	250	22	ug/kg	
132-64-9	Dibenzofuran	215	22	ug/kg	
86-73-7	Fluorene	345	22	ug/kg	
	C1-Fluorenes	433	22	ug/kg	
	C2-Fluorenes	799	22	ug/kg	
	C3-Fluorenes	655	22	ug/kg	
132-65-0	Dibenzothiophene	201	22	ug/kg	
	C1-Dibenzothiophenes	444	22	ug/kg	
	C2-Dibenzothiophenes	667	22	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C3-Dibenzothiophenes	596	22	ug/kg	
	C4-Dibenzothiophenes	391	22	ug/kg	
85-01-8	Phenanthrene	1720	22	ug/kg	
120-12-7	Anthracene	403	22	ug/kg	
	C1-Phenanthrenes/Anthracene	1670	22	ug/kg	
832-69-9	1-Methylphenanthrene	263 [a]	22	ug/kg	
	C2-Phenanthrenes/Anthracene	1880	22	ug/kg	
	C3-Phenanthrenes/Anthracene	1950	22	ug/kg	
	C4-Phenanthrenes/Anthracene	3150	22	ug/kg	
483-65-8	Retene	19200	22	ug/kg	
239-35-0	Benzo(b)naphtho(2,1-d)thioph	133	22	ug/kg	
206-44-0	Fluoranthene	1650	22	ug/kg	
129-00-0	Pyrene	1630	22	ug/kg	
	C1-Fluoranthenes/Pyrenes	1110	22	ug/kg	
	C2-Fluoranthenes/Pyrenes	800	22	ug/kg	
	C3-Fluoranthenes/Pyrenes	600	22	ug/kg	
56-55-3	Benzo(a)anthracene	762	22	ug/kg	
218-01-9	Chrysene	863	22	ug/kg	
	C1-Benzo(a)anthracenes/Chrys	680	22	ug/kg	
	C2-Benzo(a)anthracenes/Chrys	520	22	ug/kg	
	C3-Benzo(a)anthracenes/Chrys	353	22	ug/kg	
	C4-Benzo(a)anthracenes/Chrys	309	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	534	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	506	22	ug/kg	
192-97-2	Benzo(e)pyrene	473	22	ug/kg	
50-32-8	Benzo(a)pyrene	655	22	ug/kg	
198-55-0	Perylene	196	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	298	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	123	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	366	22	ug/kg	
	C25 Tricyclic Terpane-22R	60.7 [b]	22	ug/kg	
	C24 Tetracyclic Terpane	89.8 [b]	22	ug/kg	
	C26 Tricyclic Terpane-22S	61.9 [b]	22	ug/kg	
	C26 Tricyclic Terpane-22R	76.6 [b]	22	ug/kg	
	C28 Tricyclic Terpane-22S	77.6 [b]	22	ug/kg	
	C28 Tricyclic Terpane-22R	78.1 [b]	22	ug/kg	
	C29 Tricyclic Terpane-22S	99.1 [b]	22	ug/kg	
	C29 Tricyclic Terpane-22R	98.7 [b]	22	ug/kg	
	18a-22,29,30-Trisnorneohopan	318 [b]	22	ug/kg	
	C30 Tricyclic Terpane-22S	104 [b]	22	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Compound	Result	RL	Units	Q
	C30 Tricyclic Terpane-22R	104 [b]	22	ug/kg	
	17a(H)-22,29,30-Trisnorhopan	361 [b]	22	ug/kg	
	30-Norhopane	1010 [b]	22	ug/kg	
	18a(H)-30-Norneohopane-C29	341 [b]	22	ug/kg	
	17a(H)-Diahopane	117 [b]	22	ug/kg	
	30-Normoretane	205 [b]	22	ug/kg	
	18a(H)&18b(H)-Oleananes	127 [b]	22	ug/kg	
	Hopane	1810 [b]	22	ug/kg	
	Moretane	289 [b]	22	ug/kg	
	30-Homohopane-22S	506 [b]	22	ug/kg	
	30-Homohopane-22R	451 [b]	22	ug/kg	
559-65-9	Gammacerane	ND [b]	22	ug/kg	
	30,31-Bishomohopane-22S	342 [b]	22	ug/kg	
	30,31-Bishomohopane-22R	245 [b]	22	ug/kg	
	30,31-Trishomohopane-22S	190 [b]	22	ug/kg	
	30,31-Trishomohopane-22R	138 [b]	22	ug/kg	
	Tetrakishomohopane-22S	120 [b]	22	ug/kg	
	Tetrakishomohopane-22R	88.1 [b]	22	ug/kg	
	Pentakishomohopane-22S	118 [b]	22	ug/kg	
	Pentakishomohopane-22R	57.7 [b]	22	ug/kg	
	13b(H),17a(H)-20S-Diacholest	520 [b]	22	ug/kg	
	13b(H),17a(H)-20R-Diacholest	320 [b]	22	ug/kg	
	13b,17a-20S-Methyldiacholest	333 [b]	22	ug/kg	
	14a(H),17a(H)-20S-Cholestane	807 [b]	22	ug/kg	
	14b(H),17b(H)-20R-Cholestan	364 [b]	22	ug/kg	
	14b(H),17b(H)-20S-Cholestan	367 [b]	22	ug/kg	
	14a(H),17a(H)-20R-Cholestan	895 [b]	22	ug/kg	
	13b,17a-20R-Ethyldiacholesta	54.2 [b]	22	ug/kg	
	13a,17b-20S-Ethyldiacholestan	94.9 [b]	22	ug/kg	
	14a,17a-20S-Methylcholestane	127 [b]	22	ug/kg	
	14b,17b-20R-Methylcholestan	372 [b]	22	ug/kg	
	14b,17b-20S-Methylcholestane	322 [b]	22	ug/kg	
	14a,17a-20R-Methylcholestane	347 [b]	22	ug/kg	
	14a(H),17a(H)-20S-Ethylchole	337 [b]	22	ug/kg	
	14b(H),17b(H)-20R-Ethylchol	601 [b]	22	ug/kg	
	14b(H),17b(H)-20S-Ethylchole	427 [b]	22	ug/kg	
	14a(H),17a(H)-20R-Ethylchole	486 [b]	22	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	D5739-06/8270C SIM SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

Alkylated PAHs

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
2037-26-5	Toluene-D8	72%			40-140%
1146-65-2	Naphthalene-d8	59%	61%		40-140%
1517-22-2	Phenanthrene-d10	62%	60%		40-140%
	Perylene-d12	61%	68%		40-140%

(a) Result is from Run# 3
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44481.D	1	05/29/14	RP	05/24/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.36 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	C-8	ND	0.44	mg/kg	
	C-9	ND	0.44	mg/kg	
	C-10	ND	0.44	mg/kg	
	C-11	ND	0.44	mg/kg	
	C-12	ND	0.44	mg/kg	
	C-13	ND	0.44	mg/kg	
3891-98-3	2,6,10-trimethyldodecane (138	ND	0.44	mg/kg	
	C-14	ND	0.44	mg/kg	
3891-99-4	2,6,10-trimethyltridecane (147	ND	0.44	mg/kg	
	C-15	ND	0.44	mg/kg	
	C-16	ND	0.44	mg/kg	
3892-00-0	2,6,10-trimethylpentadecane (1	ND	0.44	mg/kg	
	C-17	ND	0.44	mg/kg	
1921-70-6	Pristane	ND	0.44	mg/kg	
	C-18	ND	0.44	mg/kg	
638-36-8	Phytane	ND	0.44	mg/kg	
	C-19	ND	0.44	mg/kg	
	C-20	ND	0.44	mg/kg	
	C-21	ND	0.44	mg/kg	
	C-22	ND	0.44	mg/kg	
	C-23	ND	0.44	mg/kg	
	C-24	ND	0.44	mg/kg	
	C-25	ND	0.44	mg/kg	
	C-26	ND	0.44	mg/kg	
	C-27	ND	0.44	mg/kg	
	C-28	ND	0.44	mg/kg	
	C-29	ND	0.44	mg/kg	
	C-30	ND	0.44	mg/kg	
	C-31	ND	0.44	mg/kg	
	C-32	ND	0.44	mg/kg	
	C-33	ND	0.44	mg/kg	
	C-34	ND	0.44	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9R	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

CAS No.	Compound	Result	RL	Units	Q
	C-35	ND	0.44	mg/kg	
	C-36	ND	0.44	mg/kg	
	C-37	ND	0.44	mg/kg	
	C-38	ND	0.44	mg/kg	
	C-39	ND	0.44	mg/kg	
	C-40	ND	0.44	mg/kg	
	TPH (C8-C40)	3510	44	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	49%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (16.5-17.5)		
Lab Sample ID:	MC30823-1	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	68.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44455.D	1	05/28/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.45 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	12100 J	54	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	38% [a]		40-140%

(a) Low Surrogate Recovery due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: BG44459.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB7 (22-23)		
Lab Sample ID:	MC30823-2	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	78.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44459.D	1	05/28/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.97 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	52.5	43	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (17-18.5)		
Lab Sample ID:	MC30823-3	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	67.8
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44463.D	10	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.34 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	17500	550	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	31% [a]		40-140%

(a) Low Surrogate Recovery due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (15-18)		
Lab Sample ID:	MC30823-5	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	85.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44469.D	10	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.22 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	4570 J	450	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	28% [a]		40-140%

(a) Low Surrogate Recovery due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: BG44471.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB9 (18-20)		
Lab Sample ID:	MC30823-6	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	52.4
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44471.D	1	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.09 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	410	75	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: BG44477.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	T1-SB8 (23-24)		
Lab Sample ID:	MC30823-7	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	55.3
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44477.D	1	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.01 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	319	72	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: BG44479.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP-5/21/14		
Lab Sample ID:	MC30823-8	Date Sampled:	05/21/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	52.7
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44479.D	1	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.26 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	328	72	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: BG44481.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	T2-SB4 (5-10)		
Lab Sample ID:	MC30823-9	Date Sampled:	05/20/14
Matrix:	SO - Soil	Date Received:	05/23/14
Method:	ASTM D3328-06 SW846 3570	Percent Solids:	84.1
Project:	METMAW: Equity 300 Maspeth Ave, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG44481.D	1	05/29/14	RP	05/28/14	OP38246	GBG1696
Run #2							

	Initial Weight	Final Volume
Run #1	5.36 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	3510	44	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	49%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Appendix C

Support Documentation

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC30767AR

Client / Reporting Information

Company Name: AECOM
Street Address: 250 APOLLO DR
City / State / Zip: CHELMSFORD MA
Project Contact: P. COX | E-mail:
Phone #: 978-905-2100 | Fax #:
Sampler(s) Name(s): S. WRIGHT | Phone #:

Project Information

Project Name: EQUITY
Street: 300 NAVY ST
City: BROOKLYN, NY
Project #: 60137362
Client PO#:
Project Manager: P. COX

Billing Information (If different from Report to)

Company Name: AECOM
Street Address: 125 BROADST, 16TH FL
City / State / Zip: MANHATTAN NY
Attention: J. PFEIFFER | PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vol #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfite	VOCs 8260B	SVOCs 8270C	TAL METALS 6010	PCBs 8082A	TPH 8015C GC/FID	Matrix Codes	LAB USE ONLY
-1	T2-SB1 (15-20)		5-20-14	1600	SW	SOIL	7					4	2	1			X	X	X	X	X	SW4-F	
-2	T2-SB1 (21-22)		5-20-14	1615	SW	SOIL	7					4	2	1			X	X	X	X	X		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

15A, 20E, ZC4, 10D2

Turnaround Time (Business days)

- [X] Std. 10 Business Days (ALL STAGES)
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [X] 3 Day EMERGENCY (TAH)
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [X] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

DO NOT DISPOSE OF SAMPLES, ADDITIONAL ANALYSES MAY BE REQUIRED, PENDING RESULTS

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		5-21-14 1700	FX	FX	5-22-14 950	
2						
3						
4						
5						

Custody Seal #: | [X] Intact [ ] Not Intact | Preserved where applicable: [ ] | On Ice: 8 | Cooler Temp.: 2.1°C

5.1 5

MC30767AR: Chain of Custody
Page 1 of 7

MC30767AR

Matt Morrell

From: Dave Mauro <dmauro@metaenv.com>
Sent: Thursday, May 29, 2014 8:34 AM
To: Matt Morrell; James Roush
Cc: BRochlen@schiffhardin.com; Reza Tand; Paul Lundegard; Thomas.Campbell@nationalgrid.com
Subject: RE: Equity MGP sampling plan update

Matt,

Please proceed with full forensics analysis of sample T2-SB1 (15-20) (MC30767-1A).

Do not analyze MC30767-2A for forensics parameters.

Thanks.

dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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From: Matt Morrell [mailto:mattm@accutest.com]
Sent: Wednesday, May 28, 2014 5:24 PM
To: Dave Mauro; James Roush
Cc: 'BRochlen@schiffhardin.com'; Reza Tand
Subject: RE: Equity MGP sampling plan update

Done.. It sent it to them however. No need to forward.

Regards,

Matthew Morrell
Project Manager
Accutest Laboratories of NE
Voice: 508.481.6200 Ext. 2107
Fax: 508.481.7753
mattm@accutest.com

5.1 5

ACCUTEST

"The National Testing Laboratory with Total Performance you can count on"

Your opinion is important to us. PLEASE TAKE OUR BRIEF SURVEY ... THANK YOU!
The survey can be found at the following link:
https://www.surveymonkey.com/s/Accutest

From: Dave Mauro [mailto:dmauro@metaenv.com]
Sent: Wednesday, May 28, 2014 5:20 PM
To: Matt Morrell; James Roush
Cc: BRochlen@schiffhardin.com; Reza Tand
Subject: RE: Equity MGP sampling plan update

Matt,

Please add to the distribution list.
Paul Lundegard: paul@lundegardusa.com
Tom Campbell: Thomas.Campbell@nationalgrid.com

I'll forward the 1st report to them.

dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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From: Matt Morrell [mailto:mattm@accutest.com]
Sent: Wednesday, May 28, 2014 4:50 PM
To: Dave Mauro; James Roush
Cc: 'BRochlen@schiffhardin.com'; Reza Tand
Subject: RE: Equity MGP sampling plan update

Dave,
I did not have the other email addresses, so I queued the rush TPH results to you and Brad to distribute accordingly.
Does that work for you?

Thanks
Matt

Regards,

5.1 5

MC30767AR: Chain of Custody
Page 3 of 7

Matthew Morrell
Project Manager
Accutest Laboratories of NE
Voice: 508.481.6200 Ext. 2107
Fax: 508.481.7753
mattm@accutest.com

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Your opinion is important to us. PLEASE TAKE OUR BRIEF SURVEY ... THANK YOU!
The survey can be found at the following link:
https://www.surveymonkey.com/s/Accutest

From: Dave Mauro [mailto:dmauro@metaenv.com]
Sent: Friday, May 23, 2014 10:44 AM
To: Matt Morrell; James Roush
Cc: BRochlen@schiffhardin.com; Reza Tand
Subject: RE: Equity MGP sampling plan update

Matt,

Soxhlet prep for PCPs – not required; can use microwave or ASE or other standard soil prep method

Data package – AECOM is checking, but probably standard commercial package

Compound list: -- will get them today

You should be contacted with AECOM's lab samples as AECOM, and bill AECOM

Final lab reports to Pete Cox and Josh Millard at AECOM. Rush TPH results get emailed to me, Paul Lundegard, Tom Campbell (NatGrid), and Brad Rochlen.

If you have questions for AECOM, Pete Cox is your primary point of contact. Jennifer and Josh also might help.

dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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5.1 5

MC30767AR: Chain of Custody
Page 4 of 7

From: Matt Morrell [mailto:mattm@accutest.com]
Sent: Thursday, May 22, 2014 6:15 PM
To: Dave Mauro; James Roush
Cc: 'BRochlen@schiffhardin.com'; Reza Tand
Subject: RE: Equity MGP sampling plan update

Dave,
I just want to clarify a few questions. I apologize if I am being redundant to previous conversations. I just want to make sure we are on the same page.

1) Data package required (Level IV?)
2) PCB Extraction method (soxhlet?)
3) Compound lists for VOCs and SVOCs?
4) Should this be logged in under META or AECOM (I presume AECOM)?
5) Please provide a report distribution list

Thanks
Matt

Regards,

Matthew Morrell
Project Manager
Accutest Laboratories of NE
Voice: 508.481.6200 Ext. 2107
Fax: 508.481.7753
mattm@accutest.com

ACCUTEST
LABORATORIES

"The National Testing Laboratory with Total Performance you can count on"

Your opinion is important to us. PLEASE TAKE OUR BRIEF SURVEY ... THANK YOU!
The survey can be found at the following link:
https://www.surveymonkey.com/s/Accutest

From: Dave Mauro [mailto:dmauro@metaenv.com]
Sent: Thursday, May 22, 2014 2:19 PM
To: James Roush
Cc: Matt Morrell; BRochlen@schiffhardin.com
Subject: Equity MGP sampling plan update

James,

I talked to Matt yesterday about the Equity MGP samples that you are receiving from AECOM. Here's an update and some details.

All of the results for all samples will be reported to NYS DEC and the Newtown Creek PRP Group. Therefore, plan on standard QC for all methods, conventional and forensic (if any).

TPH is on 3-day TAT. We especially need nice cgrams to look at; however, the data will go to DEC and NTC Group, so it needs to meet method criteria. Whether or not samples are analyzed for full forensics will depend on review by our forensics group.

5.1 5

MC30767AR: Chain of Custody
Page 5 of 7

Do not provide interpretation or comments on any of the data other than simple observations such as the sample had excessive water or pebbles or other issues related to completing the analyses.

All samples are to be stored frozen for up to 1 year or until released by the client.

Correspondences regarding this project are confidential and if you write anything to me, please cc Brad Rochlen (see email above). Also, do not send data directly to me; it needs to go through AECOM, at least for now.

It's my understanding that you are contracted directly to AECOM. You should check that any agreements you have with them are consistent with this email and the prices that I gave Matt yesterday.

Don't hesitate to call me with questions.

dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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5.1 5

5

MC30767AR: Chain of Custody
Page 6 of 7

Matt Morrell MC30767AR

From: Dave Mauro <dmauro@metaenv.com>
Sent: Tuesday, May 06, 2014 5:22 PM
To: Matt Morrell
Subject: FW: Equity

Matt,

Once again AECOM waited until the last minute to tell me that they will be sampling. Can you review the scope (below) and let me know if you can get a bottle order to them by Fri.? I'll work on the pricing – although I gave them this months ago.

This is follow-up work to the Equity project we did last August.

Dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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From: Pfeiffer, Jennifer [mailto:Jennifer.Pfeiffer@aecom.com]
Sent: Tuesday, May 06, 2014 4:46 PM
To: Dave Mauro
Subject: Equity

Hi Dave,
We have our Equity site that we have a forensic component to our upcoming scope of work. Would you mind sending me an estimate for this? I'll get a PO together for you.
Would you also be able to send out glassware to the following by 5/9 to Steve Wright?

Ship to address:
Steve Wright
AECOM
Rusten Corporate Park
100 Red Schoolhouse Road
Suite B-1
Chestnut Ridge, NY 10977
T 845.425.4980 F 845.425.4989

Preliminary Analysis:
- VOCs method 8260B

MC30767AR: Chain of Custody
Page 7 of 7

Blank Spike Summary

Job Number: MC30767
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38307-BS	X02277.D	1	05/30/14	WK	05/28/14	OP38307	MSX82

The QC reported here applies to the following samples: Method: SW846 8270D

MC30767-1, MC30767-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	2400	2010	84	30-130
59-50-7	4-Chloro-3-methyl phenol	2400	2580	108	30-130
120-83-2	2,4-Dichlorophenol	2400	2330	97	30-130
105-67-9	2,4-Dimethylphenol	2400	2530	106	30-130
51-28-5	2,4-Dinitrophenol	2400	758	32	30-130
534-52-1	4,6-Dinitro-o-cresol	2400	1440	60	30-130
95-48-7	2-Methylphenol	2400	2210	92	30-130
	3&4-Methylphenol	4800	4280	89	30-130
88-75-5	2-Nitrophenol	2400	2120	88	30-130
100-02-7	4-Nitrophenol	2400	2030	85	30-130
87-86-5	Pentachlorophenol	2400	1510	63	30-130
108-95-2	Phenol	2400	2370	99	30-130
95-95-4	2,4,5-Trichlorophenol	2400	2190	91	30-130
88-06-2	2,4,6-Trichlorophenol	2400	2140	89	30-130
83-32-9	Acenaphthene	2400	2110	88	40-140
208-96-8	Acenaphthylene	2400	1960	82	40-140
120-12-7	Anthracene	2400	2070	86	40-140
56-55-3	Benzo(a)anthracene	2400	2530	106	40-140
50-32-8	Benzo(a)pyrene	2400	2100	88	40-140
205-99-2	Benzo(b)fluoranthene	2400	2520	105	40-140
191-24-2	Benzo(g,h,i)perylene	2400	1950	81	40-140
207-08-9	Benzo(k)fluoranthene	2400	2560	107	40-140
101-55-3	4-Bromophenyl phenyl ether	2400	2040	85	40-140
85-68-7	Butyl benzyl phthalate	2400	3540	148* [a]	40-140
91-58-7	2-Chloronaphthalene	2400	2120	88	40-140
106-47-8	4-Chloroaniline	2400	1700	71	40-140
86-74-8	Carbazole	2400	2130	89	40-140
218-01-9	Chrysene	2400	2400	100	40-140
111-91-1	bis(2-Chloroethoxy)methane	2400	2460	103	40-140
111-44-4	bis(2-Chloroethyl)ether	2400	2360	98	40-140
108-60-1	bis(2-Chloroisopropyl)ether	2400	3080	128	40-140
7005-72-3	4-Chlorophenyl phenyl ether	2400	2130	89	40-140
95-50-1	1,2-Dichlorobenzene	2400	2000	83	40-140
541-73-1	1,3-Dichlorobenzene	2400	1950	81	40-140
106-46-7	1,4-Dichlorobenzene	2400	1960	82	40-140
121-14-2	2,4-Dinitrotoluene	2400	1960	82	40-140

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC30767
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38307-BS	X02277.D	1	05/30/14	WK	05/28/14	OP38307	MSX82

The QC reported here applies to the following samples: Method: SW846 8270D

MC30767-1, MC30767-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	2400	2110	88	40-140
91-94-1	3,3'-Dichlorobenzidine	2400	2050	85	40-140
53-70-3	Dibenzo(a,h)anthracene	2400	1960	82	40-140
132-64-9	Dibenzofuran	2400	1970	82	40-140
84-74-2	Di-n-butyl phthalate	2400	2350	98	40-140
117-84-0	Di-n-octyl phthalate	2400	4360	182* [a]	40-140
84-66-2	Diethyl phthalate	2400	2390	100	40-140
131-11-3	Dimethyl phthalate	2400	2240	93	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	2400	3770	157* [a]	40-140
206-44-0	Fluoranthene	2400	2120	88	40-140
86-73-7	Fluorene	2400	2140	89	40-140
118-74-1	Hexachlorobenzene	2400	1840	77	40-140
87-68-3	Hexachlorobutadiene	2400	2170	90	40-140
77-47-4	Hexachlorocyclopentadiene	2400	947	39* [a]	40-140
67-72-1	Hexachloroethane	2400	1900	79	40-140
193-39-5	Indeno(1,2,3-cd)pyrene	2400	1900	79	40-140
78-59-1	Isophorone	2400	2520	105	40-140
91-57-6	2-Methylnaphthalene	2400	2190	91	40-140
88-74-4	2-Nitroaniline	2400	2150	90	40-140
99-09-2	3-Nitroaniline	2400	1960	82	40-140
100-01-6	4-Nitroaniline	2400	1770	74	40-140
91-20-3	Naphthalene	2400	2400	100	40-140
98-95-3	Nitrobenzene	2400	2540	106	40-140
621-64-7	N-Nitroso-di-n-propylamine	2400	2350	98	40-140
86-30-6	N-Nitrosodiphenylamine	2400	2060	86	40-140
85-01-8	Phenanthrene	2400	2120	88	40-140
129-00-0	Pyrene	2400	3000	125	40-140
120-82-1	1,2,4-Trichlorobenzene	2400	2270	95	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	86%	30-130%
4165-62-2	Phenol-d5	89%	30-130%
118-79-6	2,4,6-Tribromophenol	71%	30-130%
4165-60-0	Nitrobenzene-d5	103%	30-130%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC30767
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Method: SW846 8270D Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC30767-1	X02281.D	78	84	71	99	90	116
MC30767-2	X02280.D	89	92	74	104	85	118
OP38307-BS	X02277.D	86	89	71	103	79	111
OP38307-MB	X02276.D	89	91	72	100	84	131* [a]
OP38307-MS	X02278.D	85	87	73	104	83	113
OP38307-MSD	X02279.D	86	85	61	88	72	85

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-130%
S2 = Phenol-d5	30-130%
S3 = 2,4,6-Tribromophenol	30-130%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

(a) Outside control limits. Associated target analytes are non-detect.

Duplicate Summary

Job Number: MC30767AR
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38247-DUP1	Z02602A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30767-1AR

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
493-02-7	trans-Decalin	8250		12300		39* [a]	30
493-01-6	cis-Decalin	1570		2230		35* [a]	30
	C1-Decalins	25900		36700		35* [a]	30 [b]
	C2-Decalins	25500		35000		31* [a]	30 [b]
	C3-Decalins	14700		19700		29	30 [b]
	C4-Decalins	24400		32400		28	30 [b]
11095-43-5	Benzo(b)thiophene	ND		ND		nc	30
	C1-Benzo(b)thiophenes	1670		2170		26	30 [b]
	C2-Benzo(b)thiophenes	2750		3680		29	30 [b]
	C3-Benzo(b)thiophenes	3430		4480		27	30 [b]
	C4-Benzo(b)thiophenes	1930		2550		28	30 [b]
91-20-3	Naphthalene	1750		2050		16	30
91-57-6	2-Methylnaphthalene	4620		5260		13	30
90-12-0	1-Methylnaphthalene	16200		21600		29	30
	C1-Naphthalenes	14000		17900		24	30 [b]
	C2-Naphthalenes	49200		65800		29	30 [b]
	C3-Naphthalenes	45100		60000		28	30 [b]
	C4-Naphthalenes	22800		30500		29	30 [b]
208-96-8	Acenaphthylene	1030		1400		30	30
83-32-9	Acenaphthene	2820		3730		28	30
132-64-9	Dibenzofuran	1210		1470		19	30
86-73-7	Fluorene	2630		3270		22	30
	C1-Fluorenes	4890		6310		25	30 [b]
	C2-Fluorenes	6770		9100		29	30 [b]
	C3-Fluorenes	4290		5500		25	30 [b]
132-65-0	Dibenzothiophene	1300		1660		24	30
	C1-Dibenzothiophenes	2700		3470		25	30 [b]
	C2-Dibenzothiophenes	2740		3680		29	30 [b]
	C3-Dibenzothiophenes	1910		2390		22	30 [b]
	C4-Dibenzothiophenes	903		1100		20	30 [b]
85-01-8	Phenanthrene	6780		8370		21	30
120-12-7	Anthracene	2120		2660		23	30
	C1-Phenanthrenes/Anthracene	9060		11600		25	30 [b]
	C2-Phenanthrenes/Anthracene	8370		11200		29	30 [b]
	C3-Phenanthrenes/Anthracene	4850		6050		22	30 [b]
	C4-Phenanthrenes/Anthracene	1840		2540		32* [a]	30 [b]

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30767AR
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38247-DUP1	Z02602A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30767-1AR

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
483-65-8	Retene	1440		1910		28	30
239-35-0	Benzo(b)naphtho(2,1-d)thioph	388		494		24	30
206-44-0	Fluoranthene	5260		5790		10	30
129-00-0	Pyrene	6230		7340		16	30
	C1-Fluoranthenes/Pyrenes	4450		5790		26	30 [b]
	C2-Fluoranthenes/Pyrenes	2250		2860		24	30 [b]
	C3-Fluoranthenes/Pyrenes	1230		1510		20	30 [b]
56-55-3	Benzo(a)anthracene	2000		2410		19	30
218-01-9	Chrysene	2080		2540		20	30
	C1-Benzo(a)anthracenes/Chrys	1690		2280		30	30 [b]
	C2-Benzo(a)anthracenes/Chrys	897		1150		25	30 [b]
	C3-Benzo(a)anthracenes/Chrys	527		690		27	30 [b]
	C4-Benzo(a)anthracenes/Chrys	415		417		0	30 [b]
205-99-2	Benzo(b)fluoranthene	1130		1330		16	30
207-08-9	Benzo(k)fluoranthene	1050		1280		20	30
192-97-2	Benzo(e)pyrene	1050		1260		18	30
50-32-8	Benzo(a)pyrene	1450		1710		16	30
198-55-0	Perylene	322		337		5	30
193-39-5	Indeno(1,2,3-cd)pyrene	645		737		13	30
53-70-3	Dibenzo(a,h)anthracene	239		279		15	30
191-24-2	Benzo(g,h,i)perylene	782		914		16	30

CAS No.	Surrogate Recoveries	DUP	MC30767-1AR	MC30767-1AR Limits
2037-26-5	Toluene-D8	61%	64%	40-140%
1146-65-2	Naphthalene-d8	69%	66%	40-140%
1517-22-2	Phenanthrene-d10	77%	75%	40-140%
	Perylene-d12	71%	69%	40-140%

(a) High RPD due to possible sample heterogeneity.
(b) Advisory control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30767AR
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38386-DUP1	Z02602.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104
MC30767-1AR	Z02603.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30767-1AR

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
	C25 Tricyclic Terpane-22R	45.0		48.7		8	30 [a]
	C24 Tetracyclic Terpane	48.1		58.3		19	30 [a]
	C26 Tricyclic Terpane-22S	36.9		47.6		25	30 [a]
	C26 Tricyclic Terpane-22R	67.1		85.2		24	30 [a]
	C28 Tricyclic Terpane-22S	39.7		43.5		9	30 [a]
	C28 Tricyclic Terpane-22R	38.8		43.2		11	30 [a]
	C29 Tricyclic Terpane-22S	43.0		45.6		6	30 [a]
	C29 Tricyclic Terpane-22R	45.2		49.7		9	30 [a]
	18a-22,29,30-Trisnorneohopan	129		159		21	30 [a]
	C30 Tricyclic Terpane-22S	56.6		58.5		3	30 [a]
	C30 Tricyclic Terpane-22R	53.3		55.2		4	30 [a]
	17a(H)-22,29,30-Trisnorhopan	192		197		3	30 [a]
	30-Norhopane	454		504		10	30 [a]
	18a(H)-30-Norneohopane-C29	168		179		6	30 [a]
	17a(H)-Diahopane	59.0		67.9		14	30 [a]
	30-Normoretane	100		102		2	30 [a]
	18a(H)&18b(H)-Oleananes	89.7		68.8		26	30 [a]
	Hopane	784		874		11	30 [a]
	Moretane	127		130		2	30 [a]
	30-Homohopane-22S	230		244		6	30 [a]
	30-Homohopane-22R	197		216		9	30 [a]
559-65-9	Gammacerane	ND		ND		nc	30 [a]
	30,31-Bishomohopane-22S	145		159		9	30 [a]
	30,31-Bishomohopane-22R	138		160		15	30 [a]
	30,31-Trishomohopane-22S	95.3		104		9	30 [a]
	30,31-Trishomohopane-22R	68.2		70.7		4	30 [a]
	Tetrakishomohopane-22S	58.8		66.1		12	30 [a]
	Tetrakishomohopane-22R	108		144		29	30 [a]
	Pentakishomohopane-22S	71.7		69.5		3	30 [a]
	Pentakishomohopane-22R	45.0		35.4		24	30 [a]
	13b(H),17a(H)-20S-Diacholest	201		238		17	30 [a]
	13b(H),17a(H)-20R-Diacholest	112		142		24	30 [a]
	13b,17a-20S-Methyldiacholest	119		131		10	30 [a]
	14a(H),17a(H)-20S-Cholestane	350		412		16	30 [a]
	14b(H),17b(H)-20R-Cholestan	137		170		21	30 [a]
	14b(H),17b(H)-20S-Cholestan	134		166		21	30 [a]

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30767AR
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38386-DUP1	Z02602.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104
MC30767-1AR	Z02603.D	5	06/11/14	SZ	05/24/14	OP38386	MSZ104

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30767-1AR

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
	14a(H),17a(H)-20R-Cholestan	372		432		15	30 [a]
	13b,17a-20R-Ethyldiacholesta	29.1		37.5		25	30 [a]
	13a,17b-20S-Ethyldiacholestan	39.9		45.6		13	30 [a]
	14a,17a-20S-Methylcholestane	55.9		71.8		25	30 [a]
	14b,17b-20R-Methylcholestan	158		167		6	30 [a]
	14b,17b-20S-Methylcholestane	153		147		4	30 [a]
	14a,17a-20R-Methylcholestane	169		178		5	30 [a]
	14a(H),17a(H)-20S-Ethylchole	170		192		12	30 [a]
	14b(H),17b(H)-20R-Ethylchol	262		294		12	30 [a]
	14b(H),17b(H)-20S-Ethylchole	181		207		13	30 [a]
	14a(H),17a(H)-20R-Ethylchole	232		240		3	30 [a]

CAS No.	Surrogate Recoveries	DUP	MC30767-1AR	Limits
1146-65-2	Naphthalene-d8	72%	69%	40-140%
1517-22-2	Phenanthrene-d10	76%	74%	40-140%
	Perylene-d12	80%	77%	40-140%

(a) Advisory control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30767AR
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38247-DUP1	Z02602B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110
MC30767-1AR	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30767-1AR

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
581-42-0	2,6-Dimethylnaphthalene	12800		17100		29	30 [a]
2245-38-7	2,3,5-Trimethylnaphthalene	5850		7850		29	30 [a]
832-69-9	1-Methylphenanthrene	1370		1790		27	30 [a]

(a) Advisory control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30823R
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38247-DUP1	Z02602A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30823-1R, MC30823-5R, MC30823-9R

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
493-02-7	trans-Decalin	8250		12300		39* [a]	30
493-01-6	cis-Decalin	1570		2230		35* [a]	30
	C1-Decalins	25900		36700		35* [a]	30 [b]
	C2-Decalins	25500		35000		31* [a]	30 [b]
	C3-Decalins	14700		19700		29	30 [b]
	C4-Decalins	24400		32400		28	30 [b]
11095-43-5	Benzo(b)thiophene	ND		ND		nc	30
	C1-Benzo(b)thiophenes	1670		2170		26	30 [b]
	C2-Benzo(b)thiophenes	2750		3680		29	30 [b]
	C3-Benzo(b)thiophenes	3430		4480		27	30 [b]
	C4-Benzo(b)thiophenes	1930		2550		28	30 [b]
91-20-3	Naphthalene	1750		2050		16	30
91-57-6	2-Methylnaphthalene	4620		5260		13	30
90-12-0	1-Methylnaphthalene	16200		21600		29	30
	C1-Naphthalenes	14000		17900		24	30 [b]
	C2-Naphthalenes	49200		65800		29	30 [b]
	C3-Naphthalenes	45100		60000		28	30 [b]
	C4-Naphthalenes	22800		30500		29	30 [b]
208-96-8	Acenaphthylene	1030		1400		30	30
83-32-9	Acenaphthene	2820		3730		28	30
132-64-9	Dibenzofuran	1210		1470		19	30
86-73-7	Fluorene	2630		3270		22	30
	C1-Fluorenes	4890		6310		25	30 [b]
	C2-Fluorenes	6770		9100		29	30 [b]
	C3-Fluorenes	4290		5500		25	30 [b]
132-65-0	Dibenzothiophene	1300		1660		24	30
	C1-Dibenzothiophenes	2700		3470		25	30 [b]
	C2-Dibenzothiophenes	2740		3680		29	30 [b]
	C3-Dibenzothiophenes	1910		2390		22	30 [b]
	C4-Dibenzothiophenes	903		1100		20	30 [b]
85-01-8	Phenanthrene	6780		8370		21	30
120-12-7	Anthracene	2120		2660		23	30
	C1-Phenanthrenes/Anthracene	9060		11600		25	30 [b]
	C2-Phenanthrenes/Anthracene	8370		11200		29	30 [b]
	C3-Phenanthrenes/Anthracene	4850		6050		22	30 [b]
	C4-Phenanthrenes/Anthracene	1840		2540		32* [a]	30 [b]

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC30823R
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38247-DUP1	Z02602A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603A.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ105
MC30767-1AR	Z02603B.D	5	06/11/14	SZ	05/24/14	OP38247	MSZ110

The QC reported here applies to the following samples: Method: D5739-06/8270C SIM

MC30823-1R, MC30823-5R, MC30823-9R

CAS No.	Compound	MC30767-1AR ug/kg	Q	DUP ug/kg	Q	RPD	Limits
483-65-8	Retene	1440		1910		28	30
239-35-0	Benzo(b)naphtho(2,1-d)thioph	388		494		24	30
206-44-0	Fluoranthene	5260		5790		10	30
129-00-0	Pyrene	6230		7340		16	30
	C1-Fluoranthenes/Pyrenes	4450		5790		26	30 [b]
	C2-Fluoranthenes/Pyrenes	2250		2860		24	30 [b]
	C3-Fluoranthenes/Pyrenes	1230		1510		20	30 [b]
56-55-3	Benzo(a)anthracene	2000		2410		19	30
218-01-9	Chrysene	2080		2540		20	30
	C1-Benzo(a)anthracenes/Chrys	1690		2280		30	30 [b]
	C2-Benzo(a)anthracenes/Chrys	897		1150		25	30 [b]
	C3-Benzo(a)anthracenes/Chrys	527		690		27	30 [b]
	C4-Benzo(a)anthracenes/Chrys	415		417		0	30 [b]
205-99-2	Benzo(b)fluoranthene	1130		1330		16	30
207-08-9	Benzo(k)fluoranthene	1050		1280		20	30
192-97-2	Benzo(e)pyrene	1050		1260		18	30
50-32-8	Benzo(a)pyrene	1450		1710		16	30
198-55-0	Perylene	322		337		5	30
193-39-5	Indeno(1,2,3-cd)pyrene	645		737		13	30
53-70-3	Dibenzo(a,h)anthracene	239		279		15	30
191-24-2	Benzo(g,h,i)perylene	782		914		16	30

CAS No.	Surrogate Recoveries	DUP	MC30767-1AR	MC30767-1AR Limits
2037-26-5	Toluene-D8	61%	64%	40-140%
1146-65-2	Naphthalene-d8	69%	66%	40-140%
1517-22-2	Phenanthrene-d10	77%	75%	40-140%
	Perylene-d12	71%	69%	40-140%

(a) High RPD due to possible sample heterogeneity.
(b) Advisory control limits.

* = Outside of Control Limits.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC30823R

Client / Reporting Information

Company Name: AECOM
Street Address: 250 APOLLO DR.
City / State / Zip: CHELMSFORD, MA
Project Contact / E-mail: P. COX
Phone # / Fax #: 978-905-2100
Sampler(s) Name(s) / Phone #: S. WRIGHT

Project Information

Project Name: EDUTY
Street: 300 MASPETH AVE
City: BROOKLYN, NY
Project #: 60137362
Client PO#:
Project Manager: P. COX

Billing Information (If different from Report to)

Company Name: AECOM
Street Address: 125 BROAD ST
City / State / Zip: MANHATTAN NY
Attention: JENN PFEIFFER
PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfite	VOCs 8260B	SVOCs 8270C	TAL METALS 6010	PCBs 8082A	TPH 8015C GC/FID	Matrix Codes / LAB USE ONLY
-1	T1-SB7 (16.5-17.5)		5-21-14	1230	SW	SOIL	7					4	2	1			X	X	X	X	X	
-2	T1-SB7 (22-23)		5-21-14	1245	SW	SOIL	7					4	2	1			X	X	X	X	X	
-3	T1-SB8 (17-18.5)		5-21-14	1145	SW	SOIL	7					4	2	1			X	X	X	X	X	
-4	T1-SB8 (23-24)		5-21-14	1200	SW	SOIL	7					4	2	1			X	X	X	X	X	
-5	T1-SB9 (15-18)		5-21-14	1100	SW	SOIL	7					4	2	1			X	X	X	X	X	LEE
-6	T1-SB9 (18-20)		5-21-14	1115	SW	SOIL	7					4	2	1			X	X	X	X	X	
-7	T1-SB8 (23-24) MS/MSD		5-21-14	1200	SW	SOIL	7					4	2	1			X	X	X	X	X	ZD2
-8	DUP-5/21/14		5-21-14	-	SW	SOIL	7					4	2	1			X	X	X	X	X	10D3
-9	T2-SB4 (5-10)		5-20-14	1330	SW	SOIL	7					4	2	1			X	X	X	X	X	15D

RUSH!

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days (CALL OTHERS)
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [x] 3 Day EMERGENCY (TPH)
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Labfax

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

DO NOT DISPOSE OF SAMPLES, ADDITIONAL ANALYSES MAY BE REQUIRED, PENDING RESULTS

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		5-23-14 1845	1	2		2
3			3	4		4
5			5			

Custody Seal # | Intact | Not Intact | Preserved where applicable | On Ice ✓ | Cooler Temp. 3.0°C

5.1 5

MC30823R: Chain of Custody
Page 1 of 2

Reza Tand MC30823R

From: Dave Mauro <dmauro@metaenv.com>
Sent: Monday, June 02, 2014 10:38 AM
To: Matt Morrell; James Roush
Cc: BRochlen@schiffhardin.com; Reza Tand; Paul Lundegard; Thomas.Campbell@nationalgrid.com; Ryan, William; Terry, David
Subject: RE: Equity MGP sampling plan update

Matt,

Please proceed with the full forensics analysis of samples:

T1-SB7 (16.5-17.5)	MC30823-1
T2-SB4 (5-10)	MC30823-9
T1-SB9 (15-18)	MC30823-5

Thanks

dave

Please note our new address and telephone number. Thank you.

David M. Mauro, President
META Environmental, Inc.
115 Dean Avenue, Suite 300
Franklin MA 02038
508-541-9146, x110
617-650-9172 (cell)
www.metaenv.com

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From: Dave Mauro
Sent: Thursday, May 29, 2014 8:32 AM
To: 'Matt Morrell'; James Roush
Cc: 'BRochlen@schiffhardin.com'; Reza Tand; 'Paul Lundegard'; 'Campbell, Thomas J. (Thomas.Campbell@nationalgrid.com)'
Subject: RE: Equity MGP sampling plan update

Matt,

Please proceed with full forensics analysis of sample T2-SB1 (15-20) (MC30767-1A).

Do not analyze MC30767-2A for forensics parameters.

Thanks.

dave

5.1 5

MC30823R: Chain of Custody
Page 2 of 2

Method Blank Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2319-MB	M65827.D	1	05/30/14	KD	n/a	n/a	MSM2319

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-2A

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-02-8	Acrolein	ND	25	ug/kg	
107-13-1	Acrylonitrile	ND	25	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	2.0	ug/kg	
74-83-9	Bromomethane	ND	2.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/kg	
75-09-2	Methylene chloride	3.9	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	

Method Blank Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSM2319-MB	M65827.D	1	05/30/14	KD	n/a	n/a	MSM2319

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-2A

CAS No.	Compound	Result	RL	Units	Q
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

Blank Spike Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5271-BS	G137997.D	1	05/29/14	JM	n/a	n/a	MSG5271

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-6A, MC30823-8A, MC30823-9A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	3560	142* [a]	70-130
107-02-8	Acrolein	12500	10100	81	70-130
107-13-1	Acrylonitrile	2500	2450	98	70-130
71-43-2	Benzene	2500	2570	103	70-130
75-27-4	Bromodichloromethane	2500	3160	126	70-130
75-25-2	Bromoform	2500	3560	142* [a]	70-130
74-83-9	Bromomethane	2500	3830	153* [a]	70-130
78-93-3	2-Butanone (MEK)	2500	3010	120	70-130
75-15-0	Carbon disulfide	2500	2510	100	70-130
56-23-5	Carbon tetrachloride	2500	3280	131* [a]	70-130
108-90-7	Chlorobenzene	2500	2540	102	70-130
75-00-3	Chloroethane	2500	3060	122	70-130
110-75-8	2-Chloroethyl vinyl ether	2500	2570	103	10-160
67-66-3	Chloroform	2500	2820	113	70-130
74-87-3	Chloromethane	2500	2490	100	70-130
124-48-1	Dibromochloromethane	2500	3150	126	70-130
95-50-1	1,2-Dichlorobenzene	2500	2480	99	70-130
541-73-1	1,3-Dichlorobenzene	2500	2440	98	70-130
106-46-7	1,4-Dichlorobenzene	2500	2550	102	70-130
75-34-3	1,1-Dichloroethane	2500	2520	101	70-130
107-06-2	1,2-Dichloroethane	2500	2950	118	70-130
75-35-4	1,1-Dichloroethene	2500	2760	110	70-130
156-59-2	cis-1,2-Dichloroethene	2500	2810	112	70-130
156-60-5	trans-1,2-Dichloroethene	2500	2870	115	70-130
78-87-5	1,2-Dichloropropane	2500	2540	102	70-130
10061-01-5	cis-1,3-Dichloropropene	2500	2830	113	70-130
10061-02-6	trans-1,3-Dichloropropene	2500	3240	130	70-130
100-41-4	Ethylbenzene	2500	2630	105	70-130
591-78-6	2-Hexanone	2500	2920	117	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2360	94	70-130
75-09-2	Methylene chloride	2500	2800	112	70-130
100-42-5	Styrene	2500	2720	109	70-130
79-34-5	1,1,2,2-Tetrachloroethane	2500	2260	90	70-130
127-18-4	Tetrachloroethene	2500	2750	110	70-130
108-88-3	Toluene	2500	2930	117	70-130
71-55-6	1,1,1-Trichloroethane	2500	3000	120	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5271-BS	G137997.D	1	05/29/14	JM	n/a	n/a	MSG5271

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-6A, MC30823-8A, MC30823-9A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-00-5	1,1,2-Trichloroethane	2500	2780	111	70-130
79-01-6	Trichloroethene	2500	2820	113	70-130
75-69-4	Trichlorofluoromethane	2500	3020	121	70-130
108-05-4	Vinyl Acetate	2500	2040	82	70-130
75-01-4	Vinyl chloride	2500	3210	128	70-130
1330-20-7	Xylene (total)	7500	7510	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	118%	70-130%
2037-26-5	Toluene-D8	115%	70-130%
460-00-4	4-Bromofluorobenzene	95%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5270-BS	G137967.D	1	05/28/14	JM	n/a	n/a	MSG5270
MSG5270-BSD	G137968.D	1	05/28/14	JM	n/a	n/a	MSG5270

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-1A, MC30823-3A, MC30823-5A, MC30823-7A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	2500	2450	98	2480	99	1	70-130/25
107-02-8	Acrolein	12500	11100	89	11100	89	0	70-130/25
107-13-1	Acrylonitrile	2500	2620	105	2580	103	2	70-130/25
71-43-2	Benzene	2500	2620	105	2590	104	1	70-130/25
75-27-4	Bromodichloromethane	2500	3190	128	3140	126	2	70-130/25
75-25-2	Bromoform	2500	3580	143* [a]	3470	139* [a]	3	70-130/25
74-83-9	Bromomethane	2500	3170	127	3450	138* [a]	8	70-130/25
78-93-3	2-Butanone (MEK)	2500	2670	107	2550	102	5	70-130/25
75-15-0	Carbon disulfide	2500	2500	100	2610	104	4	70-130/25
56-23-5	Carbon tetrachloride	2500	2710	108	3290	132* [a]	19	70-130/25
108-90-7	Chlorobenzene	2500	2620	105	2540	102	3	70-130/25
75-00-3	Chloroethane	2500	2810	112	2890	116	3	70-130/25
110-75-8	2-Chloroethyl vinyl ether	2500	2780	111	2730	109	2	10-160/25
67-66-3	Chloroform	2500	2850	114	2860	114	0	70-130/25
74-87-3	Chloromethane	2500	2600	104	2820	113	8	70-130/25
124-48-1	Dibromochloromethane	2500	3230	129	3110	124	4	70-130/25
95-50-1	1,2-Dichlorobenzene	2500	2550	102	2540	102	0	70-130/25
541-73-1	1,3-Dichlorobenzene	2500	2540	102	2570	103	1	70-130/25
106-46-7	1,4-Dichlorobenzene	2500	2630	105	2620	105	0	70-130/25
75-34-3	1,1-Dichloroethane	2500	2620	105	2630	105	0	70-130/25
107-06-2	1,2-Dichloroethane	2500	2940	118	2880	115	2	70-130/25
75-35-4	1,1-Dichloroethene	2500	2780	111	2860	114	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	2500	2780	111	2850	114	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	2500	2980	119	3050	122	2	70-130/25
78-87-5	1,2-Dichloropropane	2500	2570	103	2570	103	0	70-130/25
10061-01-5	cis-1,3-Dichloropropene	2500	2910	116	2850	114	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	2500	3310	132* [a]	3260	130	2	70-130/25
100-41-4	Ethylbenzene	2500	2740	110	2660	106	3	70-130/25
591-78-6	2-Hexanone	2500	2240	90	2100	84	6	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	2500	2400	96	2360	94	2	70-130/25
75-09-2	Methylene chloride	2500	2760	110	2840	114	3	70-130/25
100-42-5	Styrene	2500	2810	112	2790	112	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	2500	2400	96	2400	96	0	70-130/25
127-18-4	Tetrachloroethene	2500	2770	111	2730	109	1	70-130/25
108-88-3	Toluene	2500	2970	119	2920	117	2	70-130/25
71-55-6	1,1,1-Trichloroethane	2500	2830	113	3070	123	8	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5270-BS	G137967.D	1	05/28/14	JM	n/a	n/a	MSG5270
MSG5270-BSD	G137968.D	1	05/28/14	JM	n/a	n/a	MSG5270

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-1A, MC30823-3A, MC30823-5A, MC30823-7A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	2500	2860	114	2850	114	0	70-130/25
79-01-6	Trichloroethene	2500	2880	115	2820	113	2	70-130/25
75-69-4	Trichlorofluoromethane	2500	2920	117	3140	126	7	70-130/25
108-05-4	Vinyl Acetate	2500	2150	86	2140	86	0	70-130/25
75-01-4	Vinyl chloride	2500	3290	132* [a]	3440	138* [a]	4	70-130/25
1330-20-7	Xylene (total)	7500	7900	105	7670	102	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	116%	113%	70-130%
2037-26-5	Toluene-D8	116%	115%	70-130%
460-00-4	4-Bromofluorobenzene	100%	101%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC30823-7AMS	G137991.D	1	05/28/14	JM	n/a	n/a	MSG5270
MC30823-7AMSD	G137992.D	1	05/28/14	JM	n/a	n/a	MSG5270
MC30823-7A	G137987.D	1	05/28/14	JM	n/a	n/a	MSG5270

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-1A, MC30823-3A, MC30823-5A, MC30823-7A

CAS No.	Compound	MC30823-7A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6350	5910	93	6350	6420	101	8	70-130/30
107-02-8	Acrolein	ND		31800	23200	73	31800	22300	70	4	70-130/30
107-13-1	Acrylonitrile	ND		6350	5920	93	6350	6050	95	2	70-130/30
71-43-2	Benzene	7120		6350	12000	77	6350	11800	74	2	70-130/30
75-27-4	Bromodichloromethane	ND		6350	7480	118	6350	7590	120	1	70-130/30
75-25-2	Bromoform	ND		6350	8200	129	6350	8170	129	0	70-130/30
74-83-9	Bromomethane	ND		6350	9870	155* [a]	6350	9450	149* [a]	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		6350	6520	103	6350	6290	99	4	70-130/30
75-15-0	Carbon disulfide	ND		6350	6100	96	6350	6120	96	0	70-130/30
56-23-5	Carbon tetrachloride	ND		6350	8080	127	6350	8100	128	0	70-130/30
108-90-7	Chlorobenzene	ND		6350	6130	97	6350	6040	95	1	70-130/30
75-00-3	Chloroethane	ND		6350	7910	125	6350	7690	121	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		6350	6140	97	6350	6190	97	1	10-160/30
67-66-3	Chloroform	ND		6350	6890	108	6350	6750	106	2	70-130/30
74-87-3	Chloromethane	ND		6350	6870	108	6350	6820	107	1	70-130/30
124-48-1	Dibromochloromethane	ND		6350	7530	119	6350	7450	117	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		6350	5960	94	6350	5850	92	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		6350	6000	94	6350	5890	93	2	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		6350	6160	97	6350	6090	96	1	70-130/30
75-34-3	1,1-Dichloroethane	ND		6350	6050	95	6350	6120	96	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		6350	7220	114	6350	7220	114	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		6350	6760	106	6350	6430	101	5	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		6350	6760	106	6350	6730	106	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		6350	7190	113	6350	7120	112	1	70-130/30
78-87-5	1,2-Dichloropropane	ND		6350	6140	97	6350	6150	97	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		6350	6680	105	6350	6670	105	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		6350	7560	119	6350	7490	118	1	70-130/30
100-41-4	Ethylbenzene	702		6350	7590	108	6350	7490	107	1	70-130/30
591-78-6	2-Hexanone	ND		6350	5360	84	6350	5310	84	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		6350	5500	87	6350	5560	88	1	70-130/30
75-09-2	Methylene chloride	ND		6350	6720	106	6350	6620	104	1	70-130/30
100-42-5	Styrene	ND		6350	6570	103	6350	6410	101	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		6350	5700	90	6350	5710	90	0	70-130/30
127-18-4	Tetrachloroethene	ND		6350	6610	104	6350	6560	103	1	70-130/30
108-88-3	Toluene	3690		6350	11100	117	6350	11100	117	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		6350	7410	117	6350	7230	114	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC30823-7AMS	G137991.D	1	05/28/14	JM	n/a	n/a	MSG5270
MC30823-7AMSD	G137992.D	1	05/28/14	JM	n/a	n/a	MSG5270
MC30823-7A	G137987.D	1	05/28/14	JM	n/a	n/a	MSG5270

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-1A, MC30823-3A, MC30823-5A, MC30823-7A

CAS No.	Compound	MC30823-7A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	ND		6350	6670	105	6350	6720	106	1	70-130/30
79-01-6	Trichloroethene	ND		6350	6840	108	6350	6810	107	0	70-130/30
75-69-4	Trichlorofluoromethane	ND		6350	8090	127	6350	8110	128	0	70-130/30
108-05-4	Vinyl Acetate	ND		6350	4960	78	6350	4910	77	1	70-130/30
75-01-4	Vinyl chloride	ND		6350	10600	167* [a]	6350	9340	147* [a]	13	70-130/30
1330-20-7	Xylene (total)	735		19100	19900	101	19100	19800	100	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC30823-7A	Limits
1868-53-7	Dibromofluoromethane	120%	115%	108%	70-130%
2037-26-5	Toluene-D8	116%	117%	113%	70-130%
460-00-4	4-Bromofluorobenzene	98%	98%	96%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC30823-9AMS	G138016.D	1	05/29/14	JM	n/a	n/a	MSG5271
MC30823-9AMSD	G138017.D	1	05/29/14	JM	n/a	n/a	MSG5271
MC30823-9A	G138013.D	1	05/29/14	JM	n/a	n/a	MSG5271

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-6A, MC30823-8A, MC30823-9A

CAS No.	Compound	MC30823-9A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2800	4720	168* [a]	2800	4690	167* [a]	1	70-130/30
107-02-8	Acrolein	ND		14000	11800	84	14000	12000	86	2	70-130/30
107-13-1	Acrylonitrile	ND		2800	2910	104	2800	2910	104	0	70-130/30
71-43-2	Benzene	195		2800	2960	99	2800	2980	99	1	70-130/30
75-27-4	Bromodichloromethane	ND		2800	3320	118	2800	3300	118	1	70-130/30
75-25-2	Bromoform	ND		2800	2860	102	2800	2850	102	0	70-130/30
74-83-9	Bromomethane	ND		2800	4050	144* [a]	2800	3910	139* [a]	4	70-130/30
78-93-3	2-Butanone (MEK)	ND		2800	4330	154* [a]	2800	4370	156* [a]	1	70-130/30
75-15-0	Carbon disulfide	ND		2800	2700	96	2800	2630	94	3	70-130/30
56-23-5	Carbon tetrachloride	ND		2800	3620	129	2800	3460	123	5	70-130/30
108-90-7	Chlorobenzene	ND		2800	2120	76	2800	2110	75	0	70-130/30
75-00-3	Chloroethane	ND		2800	3270	117	2800	3170	113	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		2800	2920	104	2800	2890	103	1	10-160/30
67-66-3	Chloroform	ND		2800	3130	112	2800	3100	111	1	70-130/30
74-87-3	Chloromethane	ND		2800	3000	107	2800	2290	82	27	70-130/30
124-48-1	Dibromochloromethane	ND		2800	2500	89	2800	2490	89	0	70-130/30
95-50-1	1,2-Dichlorobenzene	196		2800	2630	87	2800	2530	83	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		2800	2480	88	2800	2380	85	4	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		2800	2560	91	2800	2450	87	4	70-130/30
75-34-3	1,1-Dichloroethane	ND		2800	2810	100	2800	2680	96	5	70-130/30
107-06-2	1,2-Dichloroethane	ND		2800	3050	109	2800	3090	110	1	70-130/30
75-35-4	1,1-Dichloroethene	ND		2800	3020	108	2800	2850	102	6	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		2800	3100	111	2800	3030	108	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		2800	2810	100	2800	3140	112	11	70-130/30
78-87-5	1,2-Dichloropropane	ND		2800	2680	96	2800	2670	95	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		2800	2850	102	2800	2860	102	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		2800	3280	117	2800	3260	116	1	70-130/30
100-41-4	Ethylbenzene	149		2800	2390	80	2800	2330	78	3	70-130/30
591-78-6	2-Hexanone	ND		2800	3710	132* [a]	2800	3650	130	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2800	2930	104	2800	2830	101	3	70-130/30
75-09-2	Methylene chloride	ND		2800	2860	102	2800	2780	99	3	70-130/30
100-42-5	Styrene	ND		2800	2220	79	2800	2170	77	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		2800	3740	133* [a]	2800	3740	133* [a]	0	70-130/30
127-18-4	Tetrachloroethene	ND		2800	2320	83	2800	2300	82	1	70-130/30
108-88-3	Toluene	218		2800	3350	112	2800	3360	112	0	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		2800	3180	113	2800	3190	114	0	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC30823-9AMS	G138016.D	1	05/29/14	JM	n/a	n/a	MSG5271
MC30823-9AMSD	G138017.D	1	05/29/14	JM	n/a	n/a	MSG5271
MC30823-9A	G138013.D	1	05/29/14	JM	n/a	n/a	MSG5271

The QC reported here applies to the following samples: Method: SW846 8260C

MC30823-6A, MC30823-8A, MC30823-9A

CAS No.	Compound	MC30823-9A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-00-5	1,1,2-Trichloroethane	ND		2800	3070	109	2800	3120	111	2	70-130/30
79-01-6	Trichloroethene	ND		2800	3340	119	2800	3300	118	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		2800	3670	131* [a]	2800	3270	117	12	70-130/30
108-05-4	Vinyl Acetate	ND		2800	1590	57* [a]	2800	1610	57* [a]	1	70-130/30
75-01-4	Vinyl chloride	ND		2800	4040	144* [a]	2800	3220	115	23	70-130/30
1330-20-7	Xylene (total)	759		8410	7190	76	8410	7040	75	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC30823-9A	Limits
1868-53-7	Dibromofluoromethane	117%	116%	116%	70-130%
2037-26-5	Toluene-D8	119%	118%	119%	70-130%
460-00-4	4-Bromofluorobenzene	95%	106%	103%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Method Blank Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38239-MB	X02168.D	1	05/28/14	WK	05/23/14	OP38239	MSX79

The QC reported here applies to the following samples: Method: SW846 8270D

MC30823-1A, MC30823-2A, MC30823-3A, MC30823-4A, MC30823-5A, MC30823-6A, MC30823-7A, MC30823-8A, MC30823-9A

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	250	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	500	ug/kg	
95-48-7	2-Methylphenol	ND	500	ug/kg	
	3&4-Methylphenol	ND	500	ug/kg	
88-75-5	2-Nitrophenol	ND	500	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	500	ug/kg	
108-95-2	Phenol	ND	250	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	ug/kg	
83-32-9	Acenaphthene	ND	99	ug/kg	
208-96-8	Acenaphthylene	ND	99	ug/kg	
120-12-7	Anthracene	ND	99	ug/kg	
56-55-3	Benzo(a)anthracene	ND	99	ug/kg	
50-32-8	Benzo(a)pyrene	ND	99	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	99	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	99	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	99	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	250	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	250	ug/kg	
91-58-7	2-Chloronaphthalene	ND	250	ug/kg	
106-47-8	4-Chloroaniline	ND	500	ug/kg	
86-74-8	Carbazole	ND	99	ug/kg	
218-01-9	Chrysene	ND	99	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	250	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	250	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	250	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	ug/kg	

Method Blank Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38239-MB	X02168.D	1	05/28/14	WK	05/23/14	OP38239	MSX79

The QC reported here applies to the following samples: Method: SW846 8270D

MC30823-1A, MC30823-2A, MC30823-3A, MC30823-4A, MC30823-5A, MC30823-6A, MC30823-7A, MC30823-8A, MC30823-9A

CAS No.	Compound	Result	RL	Units	Q
606-20-2	2,6-Dinitrotoluene	ND	500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	250	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	99	ug/kg	
132-64-9	Dibenzofuran	ND	99	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	250	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	250	ug/kg	
84-66-2	Diethyl phthalate	ND	250	ug/kg	
131-11-3	Dimethyl phthalate	ND	250	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	12.8	250	ug/kg	J
206-44-0	Fluoranthene	ND	99	ug/kg	
86-73-7	Fluorene	ND	99	ug/kg	
118-74-1	Hexachlorobenzene	ND	250	ug/kg	
87-68-3	Hexachlorobutadiene	ND	250	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	ug/kg	
67-72-1	Hexachloroethane	ND	250	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	99	ug/kg	
78-59-1	Isophorone	ND	250	ug/kg	
91-57-6	2-Methylnaphthalene	ND	99	ug/kg	
88-74-4	2-Nitroaniline	ND	500	ug/kg	
99-09-2	3-Nitroaniline	ND	500	ug/kg	
100-01-6	4-Nitroaniline	ND	500	ug/kg	
91-20-3	Naphthalene	ND	99	ug/kg	
98-95-3	Nitrobenzene	ND	250	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	250	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	250	ug/kg	
85-01-8	Phenanthrene	ND	99	ug/kg	
129-00-0	Pyrene	ND	99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	92%	30-130%
4165-62-2	Phenol-d5	96%	30-130%
118-79-6	2,4,6-Tribromophenol	67%	30-130%
4165-60-0	Nitrobenzene-d5	104%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38239-MS	X02171.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
OP38239-MSD	X02172.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
MC30823-7A	X02173.D	1	05/28/14	WK	05/23/14	OP38239	MSX79

The QC reported here applies to the following samples: Method: SW846 8270D

MC30823-1A, MC30823-2A, MC30823-3A, MC30823-4A, MC30823-5A, MC30823-6A, MC30823-7A, MC30823-8A, MC30823-9A

CAS No.	Compound	MC30823-7A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		4430	3850	87	4440	3620	82	6	30-130/30
59-50-7	4-Chloro-3-methyl phenol	ND		4430	4720	106	4440	4470	101	5	30-130/30
120-83-2	2,4-Dichlorophenol	ND		4430	4270	96	4440	4070	92	5	30-130/30
105-67-9	2,4-Dimethylphenol	ND		4430	4810	109	4440	4600	104	4	30-130/30
51-28-5	2,4-Dinitrophenol	ND		4430	508	11* [a]	4440	567	13* [a]	11	30-130/30
534-52-1	4,6-Dinitro-o-cresol	ND		4430	1610	36	4440	1700	38	5	30-130/30
95-48-7	2-Methylphenol	ND		4430	4720	106	4440	4320	97	9	30-130/30
	3&4-Methylphenol	293		8860	8430	92	8880	7950	86	6	30-130/30
88-75-5	2-Nitrophenol	ND		4430	4020	91	4440	3890	88	3	30-130/30
100-02-7	4-Nitrophenol	ND		4430	4630	104	4440	4620	104	0	30-130/30
87-86-5	Pentachlorophenol	ND		4430	2390	54	4440	2320	52	3	30-130/30
108-95-2	Phenol	ND		4430	4500	102	4440	4260	96	5	30-130/30
95-95-4	2,4,5-Trichlorophenol	ND		4430	4340	98	4440	4100	92	6	30-130/30
88-06-2	2,4,6-Trichlorophenol	ND		4430	3900	88	4440	3790	85	3	30-130/30
83-32-9	Acenaphthene	788		4430	4390	81	4440	4390	81	0	40-140/30
208-96-8	Acenaphthylene	121		4430	3700	81	4440	3600	78	3	40-140/30
120-12-7	Anthracene	532		4430	3970	78	4440	3960	77	0	40-140/30
56-55-3	Benzo(a)anthracene	470		4430	4840	99	4440	4730	96	2	40-140/30
50-32-8	Benzo(a)pyrene	324		4430	4040	84	4440	3960	82	2	40-140/30
205-99-2	Benzo(b)fluoranthene	299		4430	4600	97	4440	4500	95	2	40-140/30
191-24-2	Benzo(g,h,i)perylene	125		4430	4040	88	4440	4000	87	1	40-140/30
207-08-9	Benzo(k)fluoranthene	84.0		4430	4280	95	4440	4140	91	3	40-140/30
101-55-3	4-Bromophenyl phenyl ether	ND		4430	3700	83	4440	3570	80	4	40-140/30
85-68-7	Butyl benzyl phthalate	ND		4430	5420	122	4440	5170	116	5	40-140/30
91-58-7	2-Chloronaphthalene	ND		4430	4120	93	4440	3910	88	5	40-140/30
106-47-8	4-Chloroaniline	ND		4430	2990	67	4440	2870	65	4	40-140/30
86-74-8	Carbazole	21.1		4430	3960	89	4440	3840	86	3	40-140/30
218-01-9	Chrysene	343		4430	4420	92	4440	4320	90	2	40-140/30
111-91-1	bis(2-Chloroethoxy)methane	ND		4430	4610	104	4440	4350	98	6	40-140/30
111-44-4	bis(2-Chloroethyl)ether	ND		4430	4610	104	4440	4270	96	8	40-140/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		4430	5890	133	4440	5450	123	8	40-140/30
7005-72-3	4-Chlorophenyl phenyl ether	ND		4430	3810	86	4440	3650	82	4	40-140/30
95-50-1	1,2-Dichlorobenzene	ND		4430	3740	84	4440	3480	78	7	40-140/30
541-73-1	1,3-Dichlorobenzene	ND		4430	3680	83	4440	3410	77	8	40-140/30
106-46-7	1,4-Dichlorobenzene	38.4		4430	3660	82	4440	3390	76	8	40-140/30
121-14-2	2,4-Dinitrotoluene	ND		4430	3520	79	4440	3460	78	2	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38239-MS	X02171.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
OP38239-MSD	X02172.D	1	05/28/14	WK	05/23/14	OP38239	MSX79
MC30823-7A	X02173.D	1	05/28/14	WK	05/23/14	OP38239	MSX79

The QC reported here applies to the following samples: Method: SW846 8270D

MC30823-1A, MC30823-2A, MC30823-3A, MC30823-4A, MC30823-5A, MC30823-6A, MC30823-7A, MC30823-8A, MC30823-9A

7.3.1

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CAS No.	Compound	MC30823-7A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	ND		4430	3880	88	4440	3730	84	4	40-140/30
91-94-1	3,3'-Dichlorobenzidine	ND		4430	4280	97	4440	4230	95	1	40-140/30
53-70-3	Dibenzo(a,h)anthracene	ND		4430	4250	96	4440	4180	94	2	40-140/30
132-64-9	Dibenzofuran	48.5		4430	3670	82	4440	3560	79	3	40-140/30
84-74-2	Di-n-butyl phthalate	ND		4430	4010	90	4440	3870	87	4	40-140/30
117-84-0	Di-n-octyl phthalate	ND		4430	5970	135	4440	5810	131	3	40-140/30
84-66-2	Diethyl phthalate	ND		4430	4250	96	4440	4160	94	2	40-140/30
131-11-3	Dimethyl phthalate	ND		4430	4130	93	4440	3960	89	4	40-140/30
117-81-7	bis(2-Ethylhexyl)phthalate	130		4430	5790	128	4440	5510	121	5	40-140/30
206-44-0	Fluoranthene	802		4430	4270	78	4440	4150	75	3	40-140/30
86-73-7	Fluorene	479		4430	4090	81	4440	4020	80	2	40-140/30
118-74-1	Hexachlorobenzene	ND		4430	3320	75	4440	3220	73	3	40-140/30
87-68-3	Hexachlorobutadiene	ND		4430	4010	90	4440	3780	85	6	40-140/30
77-47-4	Hexachlorocyclopentadiene	ND		4430	559	13* [a]	4440	253	6* [a]	75* [b]	40-140/30
67-72-1	Hexachloroethane	ND		4430	3600	81	4440	3270	74	10	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	99.2		4430	3470	76	4440	3370	74	3	40-140/30
78-59-1	Isophorone	ND		4430	4680	106	4440	4420	100	6	40-140/30
91-57-6	2-Methylnaphthalene	872		4430	4540	83	4440	4430	80	2	40-140/30
88-74-4	2-Nitroaniline	ND		4430	4070	92	4440	3920	88	4	40-140/30
99-09-2	3-Nitroaniline	ND		4430	3590	81	4440	3540	80	1	40-140/30
100-01-6	4-Nitroaniline	ND		4430	3710	84	4440	3700	83	0	40-140/30
91-20-3	Naphthalene	2580		4430	6190	81	4440	6090	79	2	40-140/30
98-95-3	Nitrobenzene	ND		4430	4850	109	4440	4570	103	6	40-140/30
621-64-7	N-Nitroso-di-n-propylamine	ND		4430	4410	100	4440	4130	93	7	40-140/30
86-30-6	N-Nitrosodiphenylamine	ND		4430	3780	85	4440	3640	82	4	40-140/30
85-01-8	Phenanthrene	1940		4430	4920	67	4440	5010	69	2	40-140/30
129-00-0	Pyrene	1370		4430	5400	91	4440	5340	89	1	40-140/30
120-82-1	1,2,4-Trichlorobenzene	ND		4430	4230	95	4440	3940	89	7	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC30823-7A	Limits
367-12-4	2-Fluorophenol	90%	85%	91%	30-130%
4165-62-2	Phenol-d5	93%	88%	96%	30-130%
118-79-6	2,4,6-Tribromophenol	69%	66%	71%	30-130%
4165-60-0	Nitrobenzene-d5	106%	101%	106%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP38279-MS	BK38267.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
OP38279-MSD	BK38268.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241
MC30823-7A	BK38266.D	1	05/28/14	NK	05/27/14	OP38279	GBK1241

The QC reported here applies to the following samples: Method: SW846 8082A

MC30823-1A, MC30823-2A, MC30823-3A, MC30823-5A, MC30823-6A, MC30823-7A, MC30823-8A, MC30823-9A

CAS No.	Compound	MC30823-7A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		479	206	43	481	358	74	54* [a]	40-140/50
11104-28-2	Aroclor 1221	ND			ND			ND		nc	40-140/50
11141-16-5	Aroclor 1232	ND			ND			ND		nc	40-140/50
53469-21-9	Aroclor 1242	ND			ND			ND		nc	40-140/50
12672-29-6	Aroclor 1248	ND			ND			ND		nc	40-140/50
11097-69-1	Aroclor 1254	ND			ND			ND		nc	40-140/50
11096-82-5	Aroclor 1260	ND		479	199	42	481	303	63	41	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	MC30823-7A	Limits
877-09-8	Tetrachloro-m-xylene	41%	67%	50%	30-150%
877-09-8	Tetrachloro-m-xylene	40%	65%	48%	30-150%
2051-24-3	Decachlorobiphenyl	43%	62%	50%	30-150%
2051-24-3	Decachlorobiphenyl	35%	52%	42%	30-150%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

* = Outside of Control Limits.

8.3.1

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GC Identification Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Check Std:	GBK1241-CC1234	**Injection Date:**	05/28/14
Lab File ID:	BK38258.D	**Injection Time:**	20:46
Instrument ID:	GCBK	**Method:**	SW846 8082A

Sample ID:	MC30823-1A	**Injection Date:**	05/28/14
Lab File ID:	BK38259.D	**Injection Time:**	21:02
Client ID:	T1-SB7 (16.5-17.5)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1254	1 [a]			313		ug/kg	24.6
Aroclor 1254	2			401		ug/kg	
AR1254-A	1	3.82	3.79 [b]	338		ug/kg	
AR1254-A	2	3.78	3.80 [b]	469		ug/kg	
AR1254-B	1	4.10	4.07 [b]	312		ug/kg	
AR1254-B	2	4.02	4.00 [b]	350		ug/kg	
AR1254-C	1	4.54	4.51 [b]	308		ug/kg	
AR1254-C	2	4.54	4.52 [b]	421		ug/kg	
AR1254-D	1	4.88	4.85 [b]	294		ug/kg	
AR1254-D	2	4.82	4.80 [b]	365		ug/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GBK1234-IC1234 BK37964.D 05/19/14 10:47

GC Identification Summary

Job Number: MC30823A
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Check Std:	GBK1241-CC1234	**Injection Date:**	05/28/14
Lab File ID:	BK38269.D	**Injection Time:**	23:41
Instrument ID:	GCBK	**Method:**	SW846 8082A

Sample ID:	MC30823-9A	**Injection Date:**	05/28/14
Lab File ID:	BK38270.D	**Injection Time:**	23:57
Client ID:	T2-SB4 (5-10)		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
AR1254-C	1	4.54	4.51 [a]	38.9		ug/kg	
AR1254-C	2	4.54	4.52 [a]	52.3		ug/kg	
Aroclor 1260	1 [b]			49.5		ug/kg	3.3
Aroclor 1260	2			47.9		ug/kg	
AR1260-D	1	6.40	6.39	42.3		ug/kg	
AR1260-D	2	6.40	6.40	45.3		ug/kg	
AR1260-E	1	6.80	6.79	54.5		ug/kg	
AR1260-E	2	6.93	6.92	48.9		ug/kg	
AR1260-F	1	7.74	7.73	51.8		ug/kg	
AR1260-F	2	7.82	7.81	49.4		ug/kg	

(a) StdRT taken from init cal: GBK1234-IC1234 BK37964.D 05/19/14 10:47
(b) Final result reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: MC30823
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Method: ASTM D3328-06	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC30823-1	BG44455.D	38* [b]
MC30823-2	BG44459.D	91
MC30823-3	BG44463.D	31* [b]
MC30823-5	BG44469.D	28* [b]
MC30823-6	BG44471.D	82
MC30823-7	BG44477.D	88
MC30823-8	BG44479.D	85
MC30823-9	BG44481.D	49
OP38246-BS1	BG44428.D	90
OP38246-DUP1	BG44430.D	76
OP38246-MB	BG44426.D	88
OP38246-MS1	BG44466.D	93
OP38246-MSD1	BG44468.D	86

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%

(a) Recovery from GC signal #1
(b) Low Surrogate Recovery due to matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23103
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/27/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.61	3.6	0.93	<20
Antimony	1.0	.11	.15	0.20	<1.0
Arsenic	1.0	.22	.21	0.010	<1.0
Barium	5.0	.019	.073	0.020	<5.0
Beryllium	0.40	.008	.024	0.0	<0.40
Bismuth	5.0	.1	.14		
Boron	10	.081	.11		
Cadmium	0.40	.022	.042	0.0	<0.40
Calcium	500	.85	6.3	2.6	<500
Chromium	1.0	.074	.095	0.010	<1.0
Cobalt	5.0	.028	.047	0.0	<5.0
Copper	2.5	.086	.56	0.030	<2.5
Gold	5.0	.18	.43		
Iron	10	.44	.87	9.3	<10 (a)
Lead	1.0	.16	.17	0.030	<1.0
Lithium	50	2.9	8.3		
Magnesium	500	4.3	5.1	2.2	<500
Manganese	1.5	.017	.04	0.060	<1.5
Molybdenum	10	.04	.07		
Nickel	4.0	.045	.044	-0.010	<4.0
Palladium	5.0	.2	.64		
Platinum	5.0	.87	1.5		
Potassium	500	2.4	8.6	1.7	<500
Selenium	1.0	.14	.35	0.10	<1.0
Silicon	10	.21	3.3		
Silver	0.50	.047	.13	-0.020	<0.50
Sodium	500	4.2	3.3	2.6	<500
Sulfur	5.0	.29	.82		
Strontium	1.0	.01	.03		
Thallium	1.0	.17	.13	-0.040	<1.0
Tin	10	.15	.14		
Titanium	5.0	.048	.14		
Tungsten	10	.93	.94		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	.73	3.6	-0.11	<20
Antimony	1.0	.071	.15	0.23	<1.0
Arsenic	1.0	.12	.21	0.11	<1.0
Barium	5.0	.067	.073	0.18	<5.0
Beryllium	0.40	.014	.024	0.0	<0.40
Bismuth	5.0	.096	.14		
Boron	10	.07	.11		
Cadmium	0.40	.0091	.042	0.0	<0.40
Calcium	500	.42	6.3	2.4	<500
Chromium	1.0	.025	.095	0.0	<1.0
Cobalt	5.0	.01	.047	0.0	<5.0
Copper	2.5	.33	.56	0.040	<2.5
Gold	5.0	.098	.43		
Iron	10	.29	.87	2.6	<10
Lead	1.0	.12	.17	0.030	<1.0
Lithium	50	5.4	8.3		
Magnesium	500	6.1	5.1	1.2	<500
Manganese	1.5	.0079	.04	0.080	<1.5
Molybdenum	10	.04	.07		
Nickel	4.0	.041	.044	0.010	<4.0
Palladium	5.0	.12	.64		
Platinum	5.0	.29	1.5		
Potassium	500	2.8	8.6	2.0	<500
Selenium	1.0	.13	.35	0.070	<1.0
Silicon	10	.16	3.3		
Silver	0.50	.039	.13	0.040	<0.50
Sodium	500	.78	3.3	1.8	<500
Sulfur	5.0	.3	.82		
Strontium	1.0	.004	.03		
Thallium	1.0	.075	.13	-0.060	<1.0
Tin	10	.053	.14		
Titanium	5.0	.029	.14		
Tungsten	10	.098	.94		

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MS	Spikelot MPICP	% Rec	QC Limits
Aluminum	16600	18100	272	551.6(a)	75-125
Antimony	0.0	16.3	68	24.0 (b)	75-125
Arsenic	12.2	74.6	68	91.8	75-125
Barium	34.7	290	272	93.9	75-125
Beryllium	0.92	64.6	68	93.7	75-125
Bismuth					
Boron					
Cadmium	0.20	64.3	68	94.3	75-125
Calcium	2640	5660	3400	88.8	75-125
Chromium	35.8	96.0	68	88.6	75-125
Cobalt	13.8	77.5	68	93.7	75-125
Copper	14.7	74.9	68	88.6	75-125
Gold					
Iron	39600	38400	272	-441.3(a	75-125
Lead	13.4	137	136	90.9	75-125
Lithium					
Magnesium	7870	10900	3400	89.1	75-125
Manganese	368	411	68	63.3 (a)	75-125
Molybdenum					
Nickel	29.2	92.0	68	92.4	75-125
Palladium					
Platinum					
Potassium	3780	7080	3400	97.1	75-125
Selenium	0.79	64.5	68	93.7	75-125
Silicon					
Silver	0.0	22.2	27.2	81.6	75-125
Sodium	4380	7430	3400	89.7	75-125
Sulfur					
Strontium					
Thallium	0.27	61.3	68	89.8	75-125
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MS	Spikelot MPICP	% Rec	QC Limits
Vanadium	45.8	108	68	91.5	75-125
Zinc	78.5	136	68	84.6	75-125
Zirconium					

Associated samples MP23111: MC30823-7A, MC30823-8A, MC30823-9A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.Post spike within acceptable range.

9.3.2
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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Aluminum	16600	19500	276	1050.4(a	7.4	20
Antimony	0.0	17.8	69	25.8 (b)	8.8	20
Arsenic	12.2	81.0	69	99.7	8.2	20
Barium	34.7	316	276	101.9	8.6	20
Beryllium	0.92	70.1	69	100.2	8.2	20
Bismuth						
Boron						
Cadmium	0.20	69.5	69	100.4	7.8	20
Calcium	2640	6230	3450	104.0	9.6	20
Chromium	35.8	103	69	97.4	7.0	20
Cobalt	13.8	84.1	69	101.9	8.2	20
Copper	14.7	81.0	69	96.1	7.8	20
Gold						
Iron	39600	41900	276	833.1(a)	8.7	20
Lead	13.4	147	138	96.8	7.0	20
Lithium						
Magnesium	7870	11800	3450	113.9	7.9	20
Manganese	368	447	69	114.5	8.4	20
Molybdenum						
Nickel	29.2	98.9	69	101.0	7.2	20
Palladium						
Platinum						
Potassium	3780	7760	3450	115.3	9.2	20
Selenium	0.79	70.1	69	100.4	8.3	20
Silicon						
Silver	0.0	23.9	27.6	86.6	7.4	20
Sodium	4380	8100	3450	107.8	8.6	20
Sulfur						
Strontium						
Thallium	0.27	65.6	69	94.7	6.8	20
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Vanadium	45.8	116	69	101.7	7.1	20
Zinc	78.5	147	69	99.2	7.8	20
Zirconium						

Associated samples MP23111: MC30823-7A, MC30823-8A, MC30823-9A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.

9.3.2
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SERIAL DILUTION RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	MC30823-7A Original	SDL 1:5	%DIF	QC Limits
Aluminum	124000	134000	7.9	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	91.2	93.6	2.6	0-10
Barium	259	290	12.2 (a)	0-10
Beryllium	6.90	7.40	7.2	0-10
Bismuth				
Boron				
Cadmium	1.50	0.600	60.0 (b)	0-10
Calcium	19700	21800	10.8 (a)	0-10
Chromium	268	290	8.5	0-10
Cobalt	103	106	2.5	0-10
Copper	110	117	6.6	0-10
Gold				
Iron	295000	334000	13.0 (a)	0-10
Lead	100	107	6.5	0-10
Lithium				
Magnesium	58700	64000	9.1	0-10
Manganese	2750	2980	8.1	0-10
Molybdenum				
Nickel	218	229	5.0	0-10
Palladium				
Platinum				
Potassium	28200	30500	7.8	0-10
Selenium	5.90	9.40	59.3 (b)	0-10
Silicon				
Silver	0.00	2.40	NC	0-10
Sodium	32700	34800	6.3	0-10
Sulfur				
Strontium				
Thallium	2.00	3.90	95.0 (b)	0-10
Tin				
Titanium				
Tungsten				

9.3.4

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	MC30823-7A Original	SDL 1:5	%DIF	QC Limits
Vanadium	342	368	7.5	0-10
Zinc	586	652	11.2 (a)	0-10
Zirconium				

Associated samples MP23111: MC30823-7A, MC30823-8A, MC30823-9A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.3.4
9

POST DIGESTATE SPIKE SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	Sample ml	Final ml	MC30823-7A Raw	MC30823-7A Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	10	10.1			21.4	.1	2	19.80198	108.1	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Gold										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Palladium										
Platinum										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Sulfur										
Strontium										
Thallium										
Tin										
Titanium										
Tungsten										

POST DIGESTATE SPIKE SUMMARY

Login Number: MC30823A
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	Sample ml	Final ml	MC30823-7A Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Vanadium										
Zinc										
Zirconium										

Associated samples MP23111: MC30823-7A, MC30823-8A, MC30823-9A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

9.3.5

9

Blank Spike Summary

Laboratory DRAFT - Not for Release

QF	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
400 [a]	OP38246-BS1	BG44428.D	1	05/28/14	BJ	05/27/14	OP38246	GBG1693

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC30757-1, MC30823-1, MC30823-2, MC30823-3, MC30823-5, MC30823-6, MC30823-7, MC30823-8, MC30823-9, MC30767-1A, MC30767-2A, MC30823-1R, MC30823-5R, MC30823-9R, MC30767-1AR

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	C-8	10	6.48	65	40-140
	C-9	10	7.37	74	40-140
	C-10	10	7.66	77	40-140
	C-11	10	7.98	80	40-140
	C-12	10	8.09	81	40-140
	C-13	10	8.14	81	40-140
3891-98-3	2,6,10-trimethyldodecane (138		ND		40-140
	C-14	10	8.25	83	40-140
3891-99-4	2,6,10-trimethyltridecane (147		ND		40-140
	C-15	10	8.72	87	40-140
	C-16	10	8.37	84	40-140
3892-00-0	2,6,10-trimethylpentadecane (1		ND		40-140
	C-17	10	8.39	84	40-140
1921-70-6	Pristane	10	8.46	85	40-140
	C-18	10	8.51	85	40-140
638-36-8	Phytane	10	8.48	85	40-140
	C-19	10	8.47	85	40-140
	C-20	10	8.50	85	40-140
	C-21	10	8.55	86	40-140
	C-22	10	8.54	85	40-140
	C-23	10	8.57	86	40-140
	C-24	10	8.58	86	40-140
	C-25	10	8.68	87	40-140
	C-26	10	8.64	86	40-140
	C-27	10	8.66	87	40-140
	C-28	10	8.65	87	40-140
	C-29	10	8.70	87	40-140
	C-30	10	8.72	87	40-140
	C-31	10	8.73	87	40-140
	C-32	10	8.74	87	40-140
	C-33	10	8.76	88	40-140
	C-34	10	8.74	87	40-140
	C-35	10	8.73	87	40-140
	C-36	10	8.69	87	40-140
	C-37	10	8.60	86	40-140
	C-38	10	8.52	85	40-140

* = Outside of Control Limits.

Blank Spike Summary

Laboratory DRAFT - Not for Release

QF	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
400 [a]	OP38246-BS1	BG44428.D	1	05/28/14	BJ	05/27/14	OP38246	GBG1693

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC30757-1, MC30823-1, MC30823-2, MC30823-3, MC30823-5, MC30823-6, MC30823-7, MC30823-8, MC30823-9, MC30767-1A, MC30767-2A, MC30823-1R, MC30823-5R, MC30823-9R, MC30767-1AR

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	C-39	10	8.36	84	40-140
	C-40	10	8.09	81	40-140
	TPH (C8-C40)		ND		40-140

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	90%	40-140%

(a) Quant Factor calculated by LIMS.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Laboratory DRAFT - Not for Release

QF	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
413.36 [a]	OP38246-MS1	BG44466.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697
402.576 [a]	OP38246-MSD1	BG44468.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697
436.758 [a]	MC30757-1	BG44470.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC30757-1, MC30823-1, MC30823-2, MC30823-3, MC30823-5, MC30823-6, MC30823-7, MC30823-8, MC30823-9, MC30767-1A, MC30767-2A, MC30823-1R, MC30823-5R, MC30823-9R, MC30767-1AR

CAS No.	Compound	MC30757-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	C-8	ND		10.3	7.50	73	10.1	6.31	63	17	40-140/30
	C-9	ND		10.3	8.17	79	10.1	7.38	73	10	40-140/30
	C-10	ND		10.3	8.46	82	10.1	7.80	78	8	40-140/30
	C-11	ND		10.3	8.70	84	10.1	8.09	80	7	40-140/30
	C-12	ND		10.3	8.74	85	10.1	8.16	81	7	40-140/30
	C-13	ND		10.3	8.80	85	10.1	8.12	81	8	40-140/30
3891-98-3	2,6,10-trimethyldodecane (138	ND			ND			ND		nc	40-140/30
	C-14	ND		10.3	8.90	86	10.1	8.17	81	9	40-140/30
3891-99-4	2,6,10-trimethyltridecane (147	ND			ND			ND		nc	40-140/30
	C-15	ND		10.3	9.41	91	10.1	8.65	86	8	40-140/30
	C-16	ND		10.3	9.07	88	10.1	8.29	82	9	40-140/30
3892-00-0	2,6,10-trimethylpentadecane (1	ND			ND			ND		nc	40-140/30
	C-17	ND		10.3	9.08	88	10.1	8.31	83	9	40-140/30
1921-70-6	Pristane	ND		10.3	9.24	89	10.1	8.42	84	9	40-140/30
	C-18	ND		10.3	9.25	90	10.1	8.47	84	9	40-140/30
638-36-8	Phytane	0.347		10.3	9.67	90	10.1	8.77	84	10	40-140/30
	C-19	ND		10.3	9.21	89	10.1	8.39	83	9	40-140/30
	C-20	ND		10.3	9.49	92	10.1	8.65	86	9	40-140/30
	C-21	0.657		10.3	10.4	94	10.1	9.45	87	10	40-140/30
	C-22	ND		10.3	9.31	90	10.1	8.47	84	9	40-140/30
	C-23	ND		10.3	9.51	92	10.1	8.65	86	9	40-140/30
	C-24	ND		10.3	9.54	92	10.1	8.70	86	9	40-140/30
	C-25	0.501		10.3	9.97	92	10.1	9.04	85	10	40-140/30
	C-26	ND		10.3	9.52	92	10.1	8.65	86	10	40-140/30
	C-27	0.250		10.3	9.75	92	10.1	8.83	85	10	40-140/30
	C-28	ND		10.3	9.64	93	10.1	8.68	86	10	40-140/30
	C-29	0.717		10.3	10.9	99	10.1	9.31	85	16	40-140/30
	C-30	ND		10.3	9.77	95	10.1	8.76	87	11	40-140/30
	C-31	1.34		10.3	11.2	95	10.1	9.53	81	16	40-140/30
	C-32	ND		10.3	9.60	93	10.1	8.70	86	10	40-140/30
	C-33	0.670		10.3	10.4	94	10.1	9.33	86	11	40-140/30
	C-34	ND		10.3	9.21	89	10.1	8.30	82	10	40-140/30
	C-35	ND		10.3	9.33	90	10.1	8.58	85	8	40-140/30
	C-36	ND		10.3	9.03	87	10.1	7.94	79	13	40-140/30
	C-37	ND		10.3	8.83	85	10.1	7.66	76	14	40-140/30
	C-38	ND		10.3	8.63	84	10.1	7.39	73	15	40-140/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Laboratory DRAFT - Not for Release

QF	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
413.36 [a]	OP38246-MS1	BG44466.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697
402.576 [a]	OP38246-MSD1	BG44468.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697
436.758 [a]	MC30757-1	BG44470.D	1	05/29/14	RP	05/28/14	OP38246	GBG1697

The QC reported here applies to the following samples: Method: ASTM D3328-06

MC30757-1, MC30823-1, MC30823-2, MC30823-3, MC30823-5, MC30823-6, MC30823-7, MC30823-8, MC30823-9, MC30767-1A, MC30767-2A, MC30823-1R, MC30823-5R, MC30823-9R, MC30767-1AR

CAS No.	Compound	MC30757-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	C-39	ND		10.3	8.91	86	10.1	7.73	77	14	40-140/30
	C-40	ND		10.3	8.25	80	10.1	7.12	71	15	40-140/30
	TPH (C8-C40)	193			ND			ND		nc	40-140/30

CAS No.	Surrogate Recoveries	MS	MSD	MC30757-1	Limits
84-15-1	o-Terphenyl	93%	86%	90%	40-140%

(a) Quant Factor calculated by LIMS.

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC30823R
Account: AECOMMAC AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

Method: ASTM D3328-06	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
MC30823-1R	BG44455.D	38* [b]
MC30823-5R	BG44469.D	28* [b]
MC30823-9R	BG44481.D	49
OP38246-BS1	BG44428.D	90
OP38246-DUP1	BG44430.D	76
OP38246-MB	BG44426.D	88
OP38246-MS1	BG44466.D	93
OP38246-MSD1	BG44468.D	86

#3R 31%

GTM 03/11/14

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%

(a) Recovery from GC signal #1
(b) Low Surrogate Recovery due to matrix interference.

8.5.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MS	Spikelot MPICP	% Rec	QC Limits
Aluminum	16600	18100	272	551.6(a)	75-125
Antimony	0.0	16.3	68	24.0 (b)	75-125
Arsenic	12.2	74.6	68	91.8	75-125
Barium	34.7	290	272	93.9	75-125
Beryllium	0.92	64.6	68	93.7	75-125
Bismuth					
Boron					
Cadmium	0.20	64.3	68	94.3	75-125
Calcium	2640	5660	3400	88.8	75-125
Chromium	35.8	96.0	68	88.6	75-125
Cobalt	13.8	77.5	68	93.7	75-125
Copper	14.7	74.9	68	88.6	75-125
Gold					
Iron	39600	38400	272	-441.3(a	75-125
Lead	13.4	137	136	90.9	75-125
Lithium					
Magnesium	7870	10900	3400	89.1	75-125
Manganese	368	411	68	63.3 (a)	75-125
Molybdenum					
Nickel	29.2	92.0	68	92.4	75-125
Palladium					
Platinum					
Potassium	3780	7080	3400	97.1	75-125
Selenium	0.79	64.5	68	93.7	75-125
Silicon					
Silver	0.0	22.2	27.2	81.6	75-125
Sodium	4380	7430	3400	89.7	75-125
Sulfur					
Strontium					
Thallium	0.27	61.3	68	89.8	75-125
Tin					
Titanium					
Tungsten					

9.2.2

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MS	Spikelot MPICP	% Rec	QC Limits
Vanadium	45.8	108	68	91.5	75-125
Zinc	78.5	136	68	84.6	75-125
Zirconium					

Associated samples MP23111: MC30767-1, MC30767-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.Post spike within acceptable range.

9.2.2
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Aluminum	16600	19500	276	1050.4(a	7.4	20
Antimony	0.0	17.8	69	25.8 (b)	8.8	20
Arsenic	12.2	81.0	69	99.7	8.2	20
Barium	34.7	316	276	101.9	8.6	20
Beryllium	0.92	70.1	69	100.2	8.2	20
Bismuth						
Boron						
Cadmium	0.20	69.5	69	100.4	7.8	20
Calcium	2640	6230	3450	104.0	9.6	20
Chromium	35.8	103	69	97.4	7.0	20
Cobalt	13.8	84.1	69	101.9	8.2	20
Copper	14.7	81.0	69	96.1	7.8	20
Gold						
Iron	39600	41900	276	833.1(a)	8.7	20
Lead	13.4	147	138	96.8	7.0	20
Lithium						
Magnesium	7870	11800	3450	113.9	7.9	20
Manganese	368	447	69	114.5	8.4	20
Molybdenum						
Nickel	29.2	98.9	69	101.0	7.2	20
Palladium						
Platinum						
Potassium	3780	7760	3450	115.3	9.2	20
Selenium	0.79	70.1	69	100.4	8.3	20
Silicon						
Silver	0.0	23.9	27.6	86.6	7.4	20
Sodium	4380	8100	3450	107.8	8.6	20
Sulfur						
Strontium						
Thallium	0.27	65.6	69	94.7	6.8	20
Tin						
Titanium						
Tungsten						

9.2.2

9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 05/28/14

Metal	MC30823-7A Original	MSD	Spikelot MPICP	% Rec	MSD RPD	QC Limit
Vanadium	45.8	116	69	101.7	7.1	20
Zinc	78.5	147	69	99.2	7.8	20

Zirconium

Associated samples MP23111: MC30767-1, MC30767-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike duplicate recovery indicates possible matrix interference and/or sample nonhomogeneity.

9.2.2

9

POST DIGESTATE SPIKE SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	Sample ml	Final ml	MC30823-7A Raw	MC30823-7A Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	10	10.1			21.4	.1	2	19.80198	108.1	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Gold										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Palladium										
Platinum										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Sulfur										
Strontium										
Thallium										
Tin										
Titanium										
Tungsten										

9.2.5

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	MC30823-7A Original	SDL 1:5	%DIF	QC Limits
Aluminum	124000	134000	7.9	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	91.2	93.6	2.6	0-10
Barium	259	290	12.2 (a)	0-10
Beryllium	6.90	7.40	7.2	0-10
Bismuth				
Boron				
Cadmium	1.50	0.600	60.0 (b)	0-10
Calcium	19700	21800	10.8 (a)	0-10
Chromium	268	290	8.5	0-10
Cobalt	103	106	2.5	0-10
Copper	110	117	6.6	0-10
Gold				
Iron	295000	334000	13.0 (a)	0-10
Lead	100	107	6.5	0-10
Lithium				
Magnesium	58700	64000	9.1	0-10
Manganese	2750	2980	8.1	0-10
Molybdenum				
Nickel	218	229	5.0	0-10
Palladium				
Platinum				
Potassium	28200	30500	7.8	0-10
Selenium	5.90	9.40	59.3 (b)	0-10
Silicon				
Silver	0.00	2.40	NC	0-10
Sodium	32700	34800	6.3	0-10
Sulfur				
Strontium				
Thallium	2.00	3.90	95.0 (b)	0-10
Tin				
Titanium				
Tungsten				

9.2.4
9

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC30767
Account: AECOMMAC - AECOM Environment
Project: METMAW: Equity 300 Maspeth Ave, Brooklyn, NY

QC Batch ID: MP23111
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 05/28/14

Metal	MC30823-7A Original	SDL 1:5	%DIF	QC Limits
Vanadium	342	368	7.5	0-10
Zinc	586	652	11.2 (a)	0-10
Zirconium				

Associated samples MP23111: MC30767-1, MC30767-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.2.4

9

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
April 2015

April 14, 2014

Data Usability Summary Report

National Grid/Equity Former MGP Site
Soil Sampling Event
March 2015
Final

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Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on two data packages from TestAmerica Laboratories, Inc., 777 New Durham Road, Edison, NJ, 08817 for the analysis of soil samples collected March 26 – April 1, 2015 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (CoC) records.

- Volatile Organic Compounds by USEPA SW-846 Method 8260C
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270D
- Gasoline Range Organics (GRO) by USEPA SW-846 Method 8015D
- Diesel Range Organics (DRO) by USEPA SW-846 Method 8015D
- Total TAL Metals by USEPA SW-846 Methods 6010C and 7471B
- Percent Solids for Dry Weight Corrections by Method SM2540 B mod.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010, with additional reference to *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, October 2004, as they applied to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the USEPA *Region I, New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, December 1996.

The samples were processed and the results were reported under three sample delivery groups (SDGs) 460-92355-1, 460-92511-1 and 460-92568-1. Table 1 provides a sample submittal list with the field IDs cross-referenced with the TestAmerica-Edison IDs.

Table 1 - Sample Submittals - National Grid / Equity Soil Samples

Field ID	Laboratory ID	Matrix	Date/Time Sampled
SB43 (8-9)	460-92355-1	Soil	03/26/2015 1230
SB43 (45-48)	460-92355-2	Soil	03/26/2015 1330
SB43 (49-50)	460-92355-3	Soil	03/26/2015 1345
DUPE-032615	460-92355-4	Soil (QC)	03/26/2015 0000
SB44 (9-10)	460-92355-5	Soil	03/27/2015 1100
SB44 (38-40)	460-92355-6	Soil	03/27/2015 1230
SB44 (49-50)	460-92355-7	Soil	03/27/2015 1300
SB42(9-10)	460-92511-1	Soil	03/30/2015 1145

Table 1 (Continued) - Sample Submittals - National Grid / Equity Soil Samples

Field ID	Laboratory ID	Matrix	Date/Time Sampled
SB42(35-37.5)	460-92511-2	Soil	03/30/2015 1245
SB42(49-50)	460-92511-3	Soil	03/30/2015 1330
SB40 (9-10)	460-92568-1	Soil	04/01/2015 0745
SB40 (20-23.5)	460-92568-2	Soil	04/01/2015 0815
SB40 (50-55)	460-92568-3	Soil	04/01/2015 0945
SB41 (5-10)	460-92568-4	Soil	03/31/2015 1430
SB41 (5-10)MS	460-92568-4	Soil (QC)	03/31/2015 1430
SB41 (5-10)MSD	460-92568-4	Soil (QC)	03/31/2015 1430
SB41 (5-10)DUP	460-92568-4	Soil (QC)	03/31/2015 1430
SB41 (35-37)	460-92568-5	Soil	04/01/2015 1430
SB41 (38-39)	460-92568-6	Soil	04/01/2015 1445

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, matrix spike/matrix spike duplicates (MS/MSD), surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

Acetone and methylene chloride contamination was evident and caused the negation of several positive results. One non-detect volatile result (1,2-dibromo-3-chloropropane) was rejected because of poor instrument sensitivity. Six non-detect semivolatile results (2,3,4,6-tetrachlorophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, dibenz(a,h)anthracene, hexachlorocyclopentadiene and pentachlorophenol) were rejected because of matrix spike recoveries being less than 10%, indicating severe matrix effects. All other data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Completeness of 99.7% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

460-29355-1

Blank Contamination (pp. 1161-1162, 1167-1168, 1178-1179, 1189-1190, 1195-1196, 1205-1206, 1211-1212, 1218-1219, 1225-1226): Acetone and methylene chloride were detected in several of the method preservation and laboratory method blanks. The associated sample results were qualified using the criteria summarized in the table below.

For common lab contaminants (methylene chloride, acetone, 2-butanone):			
Blank type	**Blank result**	**Sample result**	**Action for samples**
Method, Storage, Trip, or Field	Detects	Not detected	No qualification
	≤ 2x RL	< 2x RL	Report sample RL value with a U if <RL. Report sample result with a U if >RL.
		≥ 2x the RL	No qualifications

RL: Reporting limit.

Calibrations (pp. 843, 1022-1025, 1032-1035, 1050-1053, 1068-1071,1078-1081, 1087-1090, 1097-1100): The continuing calibration verification (CCV) percent differences/drifts for methyl acetate, methylcyclohexane, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane and 1,2-dibromo-3-chloropropane were less than the lower method limit of -20% on 03/29/15 at 05:25 on instrument CVOAMS2. The methyl acetate, methylcyclohexane, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane and 1,2-dibromo-3-chloropropane results for associated sample SB44 (38-40) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The CCV percent differences/drifts for methyl acetate, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane and 1,2,3-trichlorobenzene were less than the lower method limit of -20% on 03/30/15 at 07:38 on instrument CVOAMS2. The methyl acetate, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane and 1,2,3-trichlorobenzene results for associated samples SB43 (45-48) and DUPE-032615 were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The 04/02/15 initial calibration relative response factor for 1,2-dibromo-3-chloropropane was less than the method minimum limit of 0.05 on instrument CVOAMS2. The 1,2-dibromo-3-chloropropane result for associated sample SB40 (20-23.5) was non-detect and was qualified “R,” as rejected, because of poor instrument sensitivity.

The CCV percent differences/drifts for acetone, bromomethane, methyl acetate and bromoform were less than the lower method limit of -20% on 04/07/15 at 07:29 on instrument CVOAMS3. The acetone, bromomethane, methyl acetate and bromoform results for associated sample SB41 (35-37) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The CCV percent difference for dichlorodifluoromethane was less than the lower method limit of -20% on 03/30/15 at 19:20 on instrument CVOAMS9. The dichlorodifluoromethane results for associated samples SB43 (49-50), SB44 (9-10) and SB44 (49-50) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The CCV percent differences for chloromethane, chloroethane and vinyl chloride were less than the lower method limit of -20% on 04/03/15 at 05:29 on instrument CVOAMS9. The chloromethane, chloroethane and vinyl chloride results for associated samples SB42 (9-10), SB42 (35-37.5) and SB42 (49-50) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The CCV percent differences for acetone, carbon disulfide, 2-butanone, 1,1,1-trichloroethane, carbon tetrachloride, methylcyclohexane, 4-methyl-2-pentanone, 2-hexanone and isopropylbenzene were greater than the upper method limit of 20% on 04/03/15 at 05:29 on instrument CVOAMS9. The positive acetone result for sample SB42 (9-10) was qualified "J+," as an estimated concentration because of high instrument bias and method blank contamination. The 2-butanone result for sample SB42 (9-10) and the carbon disulfide result for sample SB42 (35-37.5) were estimated below the reporting limits and must be considered as biased high (i.e., qualified "J,") because of high instrument bias. All other associated results were non-detect and did not require qualification in response to the high instrument bias.

The CCV percent differences for methyl acetate, chloromethane, 1,1,2,2-tetrachloroethane and vinyl chloride were less than the lower method limit of -20% on 04/05/15 at 05:34 on instrument CVOAMS9. The methyl acetate, chloromethane, 1,1,2,2-tetrachloroethane and vinyl chloride results for associated samples SB40 (9-10) and SB41 (38-39) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

The CCV percent differences for bromomethane and acetone were greater than the upper method limit of 20% on 04/07/15 at 12:14 on instrument CVOAMS9. The bromomethane and acetone results for associated samples SB43 (8-9), SB41 (5-10) and SB40 (50-55) were non-detect and did not require qualification in response to the high instrument bias.

Laboratory Control Sample Recoveries and RPDs (pp. 385-388, 401-402, 405-408): The RPD between the LCS 460-289168/4 and 5 recoveries for trichlorofluoromethane was greater than the maximum quality control limit. Samples SB43 (49-50), SB44 (9-10) and SB44 (49-50) were affected. Trichlorofluoromethane was not detected in samples SB43 (49-50), SB44 (9-10) and SB44 (49-50) and the LCS/D recoveries were within the quality control limits. No data qualifications were required.

The LCS 460-290757/8 recovery for acetone was greater than the upper quality control limit. Acetone was not detected in associated samples SB43 (8-9), SB41 (5-10) and SB40 (50-55). No data qualification was required in response to the high method bias.

Matrix Spike Recoveries and RPDs (pp. 415-416, 419-420): Several SB41 (5-10) MS and/or MSD target compound recoveries were less than the lower advisory limits, but greater than 10%. The associated results for sample SB41 (5-10) were non-detect and were qualified "UJ," as estimates, because of low bias due to matrix effects.

Reporting Limits (Form 1): Samples SB43 (45-48), DUPE-032615, SB44 (38-40) SB40 (20-23.5) and SB41 (35-37) required analysis using the medium-level soil (MLS) methanol extract to bring the high level target compound concentrations into the calibration range. The MLS method elevated the method detection limits and reporting limits. The surrogate recoveries were within the quality control limits. No data qualifications were required.

2.0 Semivolatile Organic Compounds

460-29355-1

Surrogate Recoveries (p. 1402): Samples SB43 (45-48) and DUPE-032615 required analysis at an initial 50-fold dilution to bring the target compound concentrations into the calibration range. The dilutions were high enough to dilute out the surrogates. The surrogate recoveries could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were necessary based on professional judgment.

The phenol-d5 surrogate recoveries for samples SB42 (9-10) and SB42 (49-50) were less than the lower quality control limit, but greater than 10%. The USEPA National Functional Guidelines allow one surrogate to be nonconforming lo long as the recovery is greater than 10%. No data qualifications were required.

Calibrations (pp. 2054-2056, 2075-2077, 2095-2097): The continuing calibration verification (CCV) percent difference for 2-nitroaniline was less than the lower method limit of -20% on 04/01/15 at 17:19 on instrument CBNAMS11. The 2-nitroaniline results for associated samples SB42 (9-10), SB42 (35-37.5) and SB42 (49-50) were non-detect and were qualified “UJ,” as estimates, because of low instrument bias.

The CCV percent difference for di-n-octyl phthalate was greater than the upper method limit of 20% on 04/01/15 at 09:11 on instrument CBNAMS12. The di-n-octyl phthalate results for associated samples SB43 (8-9), SB43 (45-48), SB43 (49-50), DUPE-032615 and SB44 (9-10) were non-detect. No data qualifications were required in response to the high instrument bias.

The CCV percent drift for 2,4-dinitrophenol was less than the lower method limit of -20% on 04/03/15 at 05:32 on instrument CBNAMS12. The 2,4-dinitrophenol result for associated sample SB41 (5-10) was non-detect and was qualified “UJ,” as an estimate, because of low instrument bias.

The CCV percent differences for 2,2'-oxybis[1-chloropropane], N-nitrosodi-n-propylamine, indeno[1,2,3-cd]pyrene and dibenz(a,h)anthracene were greater than the upper method limit of 20% on 04/06/15 at 02:15 on instrument CBNAMS12. The indeno[1,2,3-cd]pyrene and dibenz(a,h)anthracene results for associated samples SB40 (9-10), SB40 (20-23.5) and SB41 (35-37) were positive and were qualified “J,” as estimated concentrations, because of high instrument bias. The 2,2'-oxybis[1-chloropropane] and N-nitrosodi-n-propylamine results were non-detect. No data qualifications were required in response to the high instrument bias.

Laboratory Control Sample Recoveries (pp. 1405-1412): The LCS 460-289266/2-A and 460-289266/3-A recoveries for atrazine, di-n-octyl phthalate and hexachlorocyclopentadiene were greater than the upper quality control limits. The atrazine, di-n-octyl phthalate and hexachlorocyclopentadiene results for associated samples SB43 (8-9), SB43 (45-48), SB43 (49-50), DUPE-032615, SB44 (9-10), SB44 (38-40) and SB44 (49-50) were non-detect. No data qualifications were required in response to the high method bias.

The LCS 460-289513/2-A and 460-289513/3-A recoveries for atrazine, benzo(a)pyrene and hexachlorocyclopentadiene were greater than the upper quality control limits. The atrazine, benzo(a)pyrene and hexachlorocyclopentadiene results for associated samples SB42(9-10), SB42(35-37.5) and SB42(49-50) were non-detect. No data qualifications were required in response to the high method bias.

The LCS 460-289793/2-A recoveries for di-n-octyl phthalate and hexachlorocyclopentadiene were greater than the upper quality control limits. The di-n-octyl phthalate and hexachlorocyclopentadiene results for associated samples SB40 (9-10), SB40 (20-23.5), SB40 (50-55), SB41 (5-10), SB41 (35-37) and SB41 (38-39) were non-detect. No data qualifications were required in response to the high method bias.

Matrix Spike Recoveries and RPDs (pp. 1413-1416, 1419-1422): The SB42 (9-10) MS/MSD recoveries for 2,4-dinitrophenol were less than 10%. The 2,4-dinitrophenol result for sample SB42 (9-10) was non-detect and was qualified "R," as rejected, because of significant low bias due to matrix effects.

Several SB42 (9-10) MS and/or MSD target compound recoveries were less than the lower advisory limits, but greater than 10%. The associated results for sample SB42 (9-10) were non-detect and were qualified "UJ," as estimates, because of low bias due to matrix effects.

The RPD between the SB42 (9-10) MS and MSD recoveries for pentachlorophenol was greater than the maximum advisory limit. The pentachlorophenol result for sample SB42 (9-10) was non-detect and was qualified "UJ," as an estimate, because of imprecision due to matrix effects.

The SB41 (5-10) MS and/or MSD recoveries for 2,3,4,6-tetrachlorophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, dibenz(a,h)anthracene, hexachlorocyclopentadiene and pentachlorophenol were less than 10%. The positive and non-detect 2,3,4,6-tetrachlorophenol, 3-nitroaniline, 4,6-dinitro-2-methylphenol, dibenz(a,h)anthracene, hexachlorocyclopentadiene and pentachlorophenol results for sample SB41 (5-10) were qualified "J-/R," as estimates or as rejected, because of significant low bias due to matrix effects or sample heterogeneity.

The SB41 (5-10) MS and/or MSD recoveries for 2-methylnaphthalene and 2-nitrophenol were less than the lower advisory limits, but greater than 10%. The positive and non-detect results for sample SB41 (5-10) were qualified "J/UJ," as estimates, because of low bias due to matrix effects or sample heterogeneity.

The SB41 (5-10) MS and/or MSD recoveries for 2-chloronaphthalene, di-n-octyl phthalate, 2,4-dinitrotoluene and atrazine greater than the upper advisory limits. The 2-chloronaphthalene, di-n-octyl phthalate, 2,4-dinitrotoluene and atrazine results for sample SB41 (5-10) were non-detect. No data qualifications were required in response to the high bias due to matrix effects.

The RPD between the SB41 (5-10) MS and MSD recoveries for 4-nitroaniline was greater than the maximum advisory limit. The 4-nitroaniline result for sample SB41 (5-10) was non-detect the spike recoveries were within the advisory limits. No data qualifications were required.

3.0 Petroleum Hydrocarbons

460-29355-1 Gasoline Range Organics

Dilutions/Surrogate Recoveries (p. 2284): Samples SB43 (45-48), DUPE-032615 and SB40 (20-23.5) required analysis at an initial 2500-fold or greater dilution to bring the GRO concentration into the calibration range. The dilutions were sufficiently high to dilute out the surrogates. The surrogates could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

460-29355-1 Diesel Range Organics

Matrix Spike Recoveries (pp. 2459-2464): The DRO spike added to SB41 (5-10) MS/MSD was less than 25% of the original sample result. The spike recovery and RPD could not be calculated. No data qualification was required.

The SB43 (49-50) MS/MSD recoveries for DRO were less than the lower advisory limit, but greater than 20%. The positive DRO result for sample SB43 (49-50) was qualified "J-," as an estimated concentration, because of low method bias.

Dilutions/Surrogate Recoveries (p. 2455): Samples SB41 (8-9), SB43 (45-48), DUPE-032615, SB40 (9-10), SB40 (20-23.5), SB41 (5-10) and SB41 (35-37) required analysis at an initial 10-fold or greater dilution to bring the DRO concentration into the calibration range and/or to minimize matrix interference. The dilutions were sufficiently high to dilute out the surrogates. The surrogates could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

4.0 Total Metals

460-92355-1

Matrix Spike Recoveries (pp. 2717, 2722): The spike added to SB41 (5-10) MS for aluminum, calcium, copper, iron, manganese, lead, zinc and mercury was less than 25% of the original sample concentration. The matrix spike recoveries and RPDs could not be calculated. The SB41 (5-10) post-digestion spike recoveries for aluminum, calcium, copper, iron, manganese, lead, zinc and mercury were within the acceptance limits of 80-120%. No data qualifications were required.

The SB41 (5-10) MS recovery for antimony was less than the lower advisory limit of 75%, at 28%. The SB41 (5-10) post-digestion spike recovery for antimony was within the acceptance limits of 80-120%. All samples were affected. The positive and non-detect antimony results were qualified "J/UJ," as estimates, because of low bias attributable to matrix effects and/or poor method accuracy.

Laboratory Duplicate Precision (p. 2725): The relative percent difference (RPD) between the original and replicate calcium results for sample SB41 (5-10) was greater than the validation limit for results greater than five times the reporting limit of 35%. All samples were affected. All calcium results were positive and were qualified "J," as estimated concentrations, because of method imprecision and/or sample heterogeneity.

Reporting Error (pp. 4412-4424): In the mercury raw data section of the data package, the mercury 04/04/15 initial calibration and raw data run log are missing. Instead the mercury data for 01/23/14 was inserted. The correct data pages were requested and were received for evaluation on 04/21/15.

5.0 Field Duplicate Precision

A field duplicate sample was collected for sample SB43 (45-48). The calculated RPDs are listed in Table 2 below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments for results greater than or equal to two times the reporting limit. If one of the results is non-detect or less than two times the reporting limit, and the duplicate is greater than two times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Action applies only to the affected analyte in the organic duplicate sample pair.

Inorganics: The RPD must be ≤ 50% for soil/sediments for results greater than or equal to five times the reporting limit. For results less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to four times the reporting limit.

Action applies to the affected analyte in all inorganic samples of the same matrix prepared and analyzed by the same method.

Results associated with nonconforming RPDs were qualified "J," as estimated concentrations, because of field sampling/laboratory imprecision and/or sample heterogeneity.

Table 2 - Field Duplicate Precision - National Grid / Equity Soil Samples

Compound	SB43 (45-48)	DUPE-032615	Units	RPD (%)	Quals
Benzene	48000	470000	µg/kg	163	J
Ethylbenzene	31000	200000	µg/kg	146	J
Isopropylbenzene	800	4600	µg/kg	141	J
m&p-Xylenes	86000	690000	µg/kg	156	J
o-Xylene	42000	330000	µg/kg	155	J
Styrene	96000	820000	µg/kg	158	J
Toluene	90000	820000	µg/kg	160	J
Gasoline Range Organics	1200000	1700000	µg/kg	34	
2-Methylnaphthalene	370000	400000	µg/kg	7.8	
Acenaphthene	19000 J	22000	µg/kg	15	
Acenaphthylene	240000	270000	µg/kg	12	
Anthracene	87000	97000	µg/kg	11	
Benzo(a)anthracene	53000	58000	µg/kg	9.0	
Benzo(a)pyrene	41000	44000	µg/kg	7.1	
Benzo(b)fluoranthene	32000	36000	µg/kg	12	
Benzo(ghi)perylene	14000 J	16000 J	µg/kg	13	
Benzo(k)fluoranthene	12000	12000	µg/kg	0	

Table 2 (Continued) - Field Duplicate Precision - National Grid / Equity Soil Samples

Compound	SB43 (45-48)	DUPE-032615	Units	RPD (%)	Quals
Biphenyl	41000	46000	µg/kg	11	
Carbazole	3300 J	3300 J	µg/kg	0	
Chrysene	49000	56000	µg/kg	13	
Dibenz(a,h)anthracene	4900	5400	µg/kg	9.7	
Dibenzofuran	14000 J	17000 J	µg/kg	19	
Fluoranthene	100000	110000	µg/kg	9.5	
Fluorene	140000	160000	µg/kg	13	
Indeno(1,2,3-cd)pyrene	16000	17000	µg/kg	6.1	
Naphthalene	470000	420000	µg/kg	11	
Phenanthrene	340000	380000	µg/kg	11	
Pyrene	150000	160000	µg/kg	6.5	
Diesel Range Organics (C10-C44)	7700	3000	mg/kg	88	J
Aluminum	2730	2650	mg/kg	3.0	
Arsenic	1.3 J	1.3 J	mg/kg	0	
Barium	11.7 J	12.4 J	mg/kg	5.6	
Calcium	2880	1730	mg/kg	66	±4RL
Chromium	8.5	7.4	mg/kg	15	
Cobalt	3.0 J	3.1 J	mg/kg	3.2	
Copper	6.0	6.7	mg/kg	10	
Iron	8670	6560	mg/kg	32	
Lead	2.6	2.4	mg/kg	8.3	
Magnesium	2460	1830	mg/kg	34	
Manganese	90.4	62.2	mg/kg	45	
Nickel	7.5 J	7.1 J	mg/kg	5.6	
Potassium	574 J	552 J	mg/kg	4.0	
Sodium	377 J	426 J	mg/kg	12	
Vanadium	13.5	10.8 J	mg/kg	25	
Zinc	15.3	14.8	mg/kg	3.4	
Solids	82.9	82.8	%	0.12	

RPD: Relative percent difference
QUALs: Qualifications
µg/kg: micrograms per kilogram (ppb)
mg/kg: milligrams per kilogram (ppm)
%: Percent

6.0 Notes

Positive results less than the reporting limit, but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Tentatively identified compound (TIC) results that have been reviewed and approved by the laboratory analyst were qualified "NJ," as presumptively present at an estimated concentration. Non-target compounds with a general tentative identification or labeled as "unknown" were qualified "J," as an estimated concentration.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but may be biased high.

J- The result is an estimated quantity, but may be biased low.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) | Lab Sample ID: 460-92355-1

Matrix: Solid | Lab File ID: K38662.D

Analysis Method: 8260C | Date Collected: 03/26/2015 12:30

Sample wt/vol: 3.90(g) | Date Analyzed: 04/07/2015 16:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.3 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.55	U	1.4	0.55
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.4	0.25
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	U	1.4	0.64
79-00-5	1,1,2-Trichloroethane	0.40	U	1.4	0.40
75-34-3	1,1-Dichloroethane	0.49	U	1.4	0.49
75-35-4	1,1-Dichloroethene	0.59	U	1.4	0.59
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.4	0.16
120-82-1	1,2,4-Trichlorobenzene	0.46	U	1.4	0.46
78-87-5	1,2-Dichloropropane	0.25	U	1.4	0.25
541-73-1	1,3-Dichlorobenzene	0.17	U	1.4	0.17
106-46-7	1,4-Dichlorobenzene	0.19	U	1.4	0.19
123-91-1	1,4-Dioxane	9.2	U	29	9.2
78-93-3	2-Butanone (MEK)	1.1	U	7.2	1.1
591-78-6	2-Hexanone	1.4	U	7.2	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	7.2	3.2
67-64-1	Acetone	1.5	U	7.2	1.5
71-43-2	Benzene	13		1.4	0.29
75-25-2	Bromoform	0.19	U	1.4	0.19
74-83-9	Bromomethane	0.46	U	1.4	0.46
75-15-0	Carbon disulfide	0.62	U	1.4	0.62
56-23-5	Carbon tetrachloride	0.62	U	1.4	0.62
108-90-7	Chlorobenzene	0.20	U	1.4	0.20
74-97-5	Chlorobromomethane	0.25	U	1.4	0.25
124-48-1	Chlorodibromomethane	0.22	U	1.4	0.22
75-00-3	Chloroethane	0.51	U	1.4	0.51
67-66-3	Chloroform	0.30	U	1.4	0.30
74-87-3	Chloromethane	0.55	U	1.4	0.55
156-59-2	cis-1,2-Dichloroethene	0.32	U	1.4	0.32
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.4	0.22
110-82-7	Cyclohexane	0.66	U	1.4	0.66
75-27-4	Dichlorobromomethane	0.55	U	1.4	0.55
75-71-8	Dichlorodifluoromethane	0.46	U	1.4	0.46
100-41-4	Ethylbenzene	6.7		1.4	0.26
106-93-4	Ethylene Dibromide	0.17	U	1.4	0.17
98-82-8	Isopropylbenzene	0.25	U	1.4	0.25

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) Lab Sample ID: 460-92355-1

Matrix: Solid Lab File ID: K38662.D

Analysis Method: 8260C Date Collected: 03/26/2015 12:30

Sample wt/vol: 3.90(g) Date Analyzed: 04/07/2015 16:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.3 Level: (low/med) Low

Analysis Batch No.: 290757 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.3	U	7.2	1.3
1634-04-4	Methyl tert-butyl ether	0.25	U	1.4	0.25
108-87-2	Methylcyclohexane	0.72	U	1.4	0.72
75-09-2	Methylene Chloride	0.46	U	1.4	0.46
179601-23-1	m-Xylene & p-Xylene	7.8		1.4	0.16
95-47-6	o-Xylene	3.4		1.4	0.23
100-42-5	Styrene	1.6		1.4	0.22
127-18-4	Tetrachloroethene	0.40	U	1.4	0.40
108-88-3	Toluene	12		1.4	0.27
156-60-5	trans-1,2-Dichloroethene	0.56	U	1.4	0.56
10061-02-6	trans-1,3-Dichloropropene	0.14	U	1.4	0.14
79-01-6	Trichloroethene	0.38	U	1.4	0.38
75-69-4	Trichlorofluoromethane	0.49	U	1.4	0.49
75-01-4	Vinyl chloride	0.56	U	1.4	0.56
107-06-2	1,2-Dichloroethane	0.16	U	1.4	0.16
95-50-1	1,2-Dichlorobenzene	0.20	U	1.4	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	0.68	U	1.4	0.68

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) Lab Sample ID: 460-92355-1

Matrix: Solid Lab File ID: K38662.D

Analysis Method: 8260C Date Collected: 03/26/2015 12:30

Sample wt/vol: 3.90(g) Date Analyzed: 04/07/2015 16:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.3 Level: (low/med) Low

Analysis Batch No.: 290757 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 25

CAS NO.	COMPOUND NAME	RT	RESULT	Q
91-20-3	Naphthalene	12.47	25	~~J N~~

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) Lab Sample ID: 460-92355-2

Matrix: Solid Lab File ID: B81113.D

Analysis Method: 8260C Date Collected: 03/26/2015 13:30

Sample wt/vol: 5.64(g) Date Analyzed: 03/30/2015 11:42

Soil Aliquot Vol: 5 (mL) Dilution Factor: 100

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.1 Level: (low/med) Medium

Analysis Batch No.: 289040 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
74-87-3	Chloromethane	47	U	210	47	
74-83-9	Bromomethane	38	U	210	38	
75-01-4	Vinyl chloride	43	U	210	43	
75-00-3	Chloroethane	79	U	210	79	
75-09-2	Methylene Chloride	45	U	210	45	
67-64-1	Acetone	230	U	1100	230	
75-15-0	Carbon disulfide	47	U	210	47	
75-69-4	Trichlorofluoromethane	32	U	210	32	
75-35-4	1,1-Dichloroethene	73	U	210	73	
75-34-3	1,1-Dichloroethane	51	U	210	51	
156-60-5	trans-1,2-Dichloroethene	38	U	210	38	
156-59-2	cis-1,2-Dichloroethene	56	U	210	56	
67-66-3	Chloroform	47	U	210	47	
107-06-2	1,2-Dichloroethane	53	U	210	53	
78-93-3	2-Butanone (MEK)	470	U	1100	470	
71-55-6	1,1,1-Trichloroethane	60	U	210	60	
56-23-5	Carbon tetrachloride	71	U	210	71	
75-27-4	Dichlorobromomethane	32	U	210	32	
78-87-5	1,2-Dichloropropane	38	U	210	38	
10061-01-5	cis-1,3-Dichloropropene	34	U	210	34	
79-01-6	Trichloroethene	47	U	210	47	
124-48-1	Chlorodibromomethane	47	U	210	47	
79-00-5	1,1,2-Trichloroethane	17	U	210	17	
71-43-2	Benzene	48000	J	210	41	FD
10061-02-6	trans-1,3-Dichloropropene	41	U	210	41	
75-25-2	Bromoform	38	U	210	38	
108-10-1	4-Methyl-2-pentanone (MIBK)	130	UJ	1100	130	CCV
591-78-6	2-Hexanone	150	UJ	1100	150	CCV
127-18-4	Tetrachloroethene	77	U	210	77	
79-34-5	1,1,2,2-Tetrachloroethane	41	UJ	210	41	CCV
108-88-3	Toluene	90000	J	210	53	FD
108-90-7	Chlorobenzene	51	U	210	51	
100-41-4	Ethylbenzene	31000	J	210	64	FD
100-42-5	Styrene	96000	J	210	36	FD
179601-23-1	m-Xylene & p-Xylene	86000	J	210	60	FD
95-47-6	o-Xylene	42000	J	210	68	FD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) | Lab Sample ID: 460-92355-2

Matrix: Solid | Lab File ID: B81113.D

Analysis Method: 8260C | Date Collected: 03/26/2015 13:30

Sample wt/vol: 5.64(g) | Date Analyzed: 03/30/2015 11:42

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 100

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.1 | Level: (low/med) Medium

Analysis Batch No.: 289040 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	73	U	210	73	
1634-04-4	Methyl tert-butyl ether	28	U	210	28	
110-82-7	Cyclohexane	56	U	210	56	
106-93-4	Ethylene Dibromide	41	U	210	41	
541-73-1	1,3-Dichlorobenzene	71	U	210	71	
106-46-7	1,4-Dichlorobenzene	71	U	210	71	
95-50-1	1,2-Dichlorobenzene	47	U	210	47	
75-71-8	Dichlorodifluoromethane	30	U	210	30	
120-82-1	1,2,4-Trichlorobenzene	58	U	210	58	
123-91-1	1,4-Dioxane	1900	U	5300	1900	
87-61-6	1,2,3-Trichlorobenzene	75	UJ	210	75	ccv
96-12-8	1,2-Dibromo-3-Chloropropane	49	UJ	210	49	ccv
74-97-5	Chlorobromomethane	64	U	210	64	
98-82-8	Isopropylbenzene	800	J	210	68	FD
79-20-9	Methyl acetate	120	UJ	1100	120	ccv
108-87-2	Methylcyclohexane	47	U	210	47	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-135
2037-26-5	Toluene-d8 (Surr)	88		59-150
460-00-4	4-Bromofluorobenzene	104		72-133
1868-53-7	Dibromofluoromethane (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) Lab Sample ID: 460-92355-2

Matrix: Solid Lab File ID: B81113.D

Analysis Method: 8260C Date Collected: 03/26/2015 13:30

Sample wt/vol: 5.64(g) Date Analyzed: 03/30/2015 11:42

Soil Aliquot Vol: 5 (mL) Dilution Factor: 100

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.1 Level: (low/med) Medium

Analysis Batch No.: 289040 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 440000

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
91-20-3	Naphthalene	12.45	440000	F J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) | Lab Sample ID: 460-92355-3

Matrix: Solid | Lab File ID: K38315.D

Analysis Method: 8260C | Date Collected: 03/26/2015 13:45

Sample wt/vol: 4.23(g) | Date Analyzed: 03/31/2015 00:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.3 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.55	U	1.4	0.55	
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	1.4	0.25	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	U	1.4	0.64	
79-00-5	1,1,2-Trichloroethane	0.41	U	1.4	0.41	
75-34-3	1,1-Dichloroethane	0.49	U	1.4	0.49	
75-35-4	1,1-Dichloroethene	0.59	U	1.4	0.59	
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.4	0.16	
120-82-1	1,2,4-Trichlorobenzene	0.46	U	1.4	0.46	
78-87-5	1,2-Dichloropropane	0.25	U	1.4	0.25	
541-73-1	1,3-Dichlorobenzene	0.17	U	1.4	0.17	
106-46-7	1,4-Dichlorobenzene	0.19	U	1.4	0.19	
123-91-1	1,4-Dioxane	9.2	U	29	9.2	
78-93-3	2-Butanone (MEK)	1.1	U	7.2	1.1	
591-78-6	2-Hexanone	1.4	U	7.2	1.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	7.2	3.2	
67-64-1	Acetone	18	B	7.2	1.5	
71-43-2	Benzene	10		1.4	0.29	
75-25-2	Bromoform	0.19	U	1.4	0.19	
74-83-9	Bromomethane	0.46	U	1.4	0.46	
75-15-0	Carbon disulfide	0.72	J	1.4	0.62	
56-23-5	Carbon tetrachloride	0.62	U	1.4	0.62	
108-90-7	Chlorobenzene	0.20	U	1.4	0.20	
74-97-5	Chlorobromomethane	0.25	U	1.4	0.25	
124-48-1	Chlorodibromomethane	0.22	U	1.4	0.22	
75-00-3	Chloroethane	0.51	U	1.4	0.51	
67-66-3	Chloroform	0.30	U	1.4	0.30	
74-87-3	Chloromethane	0.55	U	1.4	0.55	
156-59-2	cis-1,2-Dichloroethene	0.32	U	1.4	0.32	
10061-01-5	cis-1,3-Dichloropropene	0.22	U	1.4	0.22	
110-82-7	Cyclohexane	0.67	U	1.4	0.67	
75-27-4	Dichlorobromomethane	0.55	U	1.4	0.55	
75-71-8	Dichlorodifluoromethane	0.46	UJ	1.4	0.46	CCV
100-41-4	Ethylbenzene	1.5		1.4	0.26	
106-93-4	Ethylene Dibromide	0.17	U	1.4	0.17	
98-82-8	Isopropylbenzene	0.25	U	1.4	0.25	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) Lab Sample ID: 460-92355-3

Matrix: Solid Lab File ID: K38315.D

Analysis Method: 8260C Date Collected: 03/26/2015 13:45

Sample wt/vol: 4.23(g) Date Analyzed: 03/31/2015 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.3 Level: (low/med) Low

Analysis Batch No.: 289168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.3	U	7.2	1.3
1634-04-4	Methyl tert-butyl ether	0.25	U	1.4	0.25
108-87-2	Methylcyclohexane	0.72	U	1.4	0.72
75-09-2	Methylene Chloride	1.4 ~~1.1~~	~~J B~~	1.4	0.46
179601-23-1	m-Xylene & p-Xylene	4.0		1.4	0.16
95-47-6	o-Xylene	2.5		1.4	0.23
100-42-5	Styrene	3.5		1.4	0.22
127-18-4	Tetrachloroethene	0.41	U	1.4	0.41
108-88-3	Toluene	12		1.4	0.27
156-60-5	trans-1,2-Dichloroethene	0.56	U	1.4	0.56
10061-02-6	trans-1,3-Dichloropropene	0.14	U	1.4	0.14
79-01-6	Trichloroethene	0.38	U	1.4	0.38
75-69-4	Trichlorofluoromethane	0.49	U	1.4	0.49
75-01-4	Vinyl chloride	0.56	U	1.4	0.56
107-06-2	1,2-Dichloroethane	0.16	U	1.4	0.16
95-50-1	1,2-Dichlorobenzene	0.20	U	1.4	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	0.68	U	1.4	0.68

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) Lab Sample ID: 460-92355-3

Matrix: Solid Lab File ID: K38315.D

Analysis Method: 8260C Date Collected: 03/26/2015 13:45

Sample wt/vol: 4.23(g) Date Analyzed: 03/31/2015 00:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.3 Level: (low/med) Low

Analysis Batch No.: 289168 Units: ug/Kg

Number TICs Found: 3 TIC Result Total: 98.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-13-6	Indene	11.38	13	J N
91-20-3	Naphthalene	12.48	78	~~J N~~
91-57-6	Naphthalene, 2-methyl-	13.32	7.6	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 | Lab Sample ID: 460-92355-4

Matrix: Solid | Lab File ID: B81114.D

Analysis Method: 8260C | Date Collected: 03/26/2015 00:00

Sample wt/vol: 5.09(g) | Date Analyzed: 03/30/2015 12:07

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1000

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.2 | Level: (low/med) Medium

Analysis Batch No.: 289040 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
74-87-3	Chloromethane	520	U	2400	520	
74-83-9	Bromomethane	430	U	2400	430	
75-01-4	Vinyl chloride	470	U	2400	470	
75-00-3	Chloroethane	880	U	2400	880	
75-09-2	Methylene Chloride	500	U	2400	500	
67-64-1	Acetone	2500	U	12000	2500	
75-15-0	Carbon disulfide	520	U	2400	520	
75-69-4	Trichlorofluoromethane	360	U	2400	360	
75-35-4	1,1-Dichloroethene	810	U	2400	810	
75-34-3	1,1-Dichloroethane	570	U	2400	570	
156-60-5	trans-1,2-Dichloroethene	430	U	2400	430	
156-59-2	cis-1,2-Dichloroethene	620	U	2400	620	
67-66-3	Chloroform	520	U	2400	520	
107-06-2	1,2-Dichloroethane	590	U	2400	590	
78-93-3	2-Butanone (MEK)	5200	U	12000	5200	
71-55-6	1,1,1-Trichloroethane	660	U	2400	660	
56-23-5	Carbon tetrachloride	780	U	2400	780	
75-27-4	Dichlorobromomethane	360	U	2400	360	
78-87-5	1,2-Dichloropropane	430	U	2400	430	
10061-01-5	cis-1,3-Dichloropropene	380	U	2400	380	
79-01-6	Trichloroethene	520	U	2400	520	
124-48-1	Chlorodibromomethane	520	U	2400	520	
79-00-5	1,1,2-Trichloroethane	190	U	2400	190	
71-43-2	Benzene	470000	J	2400	450	FD
10061-02-6	trans-1,3-Dichloropropene	450	U	2400	450	
75-25-2	Bromoform	430	U	2400	430	
108-10-1	4-Methyl-2-pentanone (MIBK)	1500	UJ	12000	1500	CCV
591-78-6	2-Hexanone	1700	UJ	12000	1700	CCV
127-18-4	Tetrachloroethene	850	U	2400	850	
79-34-5	1,1,2,2-Tetrachloroethane	450	UJ	2400	450	CCV
108-88-3	Toluene	820000	J	2400	590	FD
108-90-7	Chlorobenzene	570	U	2400	570	
100-41-4	Ethylbenzene	200000	J	2400	710	FD
100-42-5	Styrene	820000	J	2400	400	FD
179601-23-1	m-Xylene & p-Xylene	690000	J	2400	660	FD
95-47-6	o-Xylene	330000	J	2400	760	FD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 | Lab Sample ID: 460-92355-4

Matrix: Solid | Lab File ID: B81114.D

Analysis Method: 8260C | Date Collected: 03/26/2015 00:00

Sample wt/vol: 5.09(g) | Date Analyzed: 03/30/2015 12:07

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1000

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.2 | Level: (low/med) Medium

Analysis Batch No.: 289040 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	810	U	2400	810	
1634-04-4	Methyl tert-butyl ether	310	U	2400	310	
110-82-7	Cyclohexane	620	U	2400	620	
106-93-4	Ethylene Dibromide	450	U	2400	450	
541-73-1	1,3-Dichlorobenzene	780	U	2400	780	
106-46-7	1,4-Dichlorobenzene	780	U	2400	780	
95-50-1	1,2-Dichlorobenzene	520	U	2400	520	
75-71-8	Dichlorodifluoromethane	330	U	2400	330	
120-82-1	1,2,4-Trichlorobenzene	640	U	2400	640	
123-91-1	1,4-Dioxane	21000	U	59000	21000	
87-61-6	1,2,3-Trichlorobenzene	830	UJ	2400	830	CCV
96-12-8	1,2-Dibromo-3-Chloropropane	550	UJ	2400	550	CCV
74-97-5	Chlorobromomethane	710	U	2400	710	
98-82-8	Isopropylbenzene	4600	J	2400	760	FD
79-20-9	Methyl acetate	1400	UJ	12000	1400	CCV
108-87-2	Methylcyclohexane	520	U	2400	520	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		75-135
2037-26-5	Toluene-d8 (Surr)	92		59-150
460-00-4	4-Bromofluorobenzene	121		72-133
1868-53-7	Dibromofluoromethane (Surr)	84		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 Lab Sample ID: 460-92355-4

Matrix: Solid Lab File ID: B81114.D

Analysis Method: 8260C Date Collected: 03/26/2015 00:00

Sample wt/vol: 5.09(g) Date Analyzed: 03/30/2015 12:07

Soil Aliquot Vol: 5 (mL) Dilution Factor: 1000

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.2 Level: (low/med) Medium

Analysis Batch No.: 289040 Units: ug/Kg

Number TICs Found: 1 TIC Result Total: 3.8e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	
91-20-3	Naphthalene	12.43	3800000	~~F~~ J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) | Lab Sample ID: 460-92355-5

Matrix: Solid | Lab File ID: K38316.D

Analysis Method: 8260C | Date Collected: 03/27/2015 11:00

Sample wt/vol: 4.86(g) | Date Analyzed: 03/31/2015 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 9.5 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.43	U	1.1	0.43	
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.1	0.19	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	1.1	0.50	
79-00-5	1,1,2-Trichloroethane	0.32	U	1.1	0.32	
75-34-3	1,1-Dichloroethane	0.39	U	1.1	0.39	
75-35-4	1,1-Dichloroethene	0.47	U	1.1	0.47	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.1	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.36	U	1.1	0.36	
78-87-5	1,2-Dichloropropane	0.19	U	1.1	0.19	
541-73-1	1,3-Dichlorobenzene	0.14	U	1.1	0.14	
106-46-7	1,4-Dichlorobenzene	0.15	U	1.1	0.15	
123-91-1	1,4-Dioxane	7.3	U	23	7.3	
78-93-3	2-Butanone (MEK)	0.88	U	5.7	0.88	
591-78-6	2-Hexanone	1.1	U	5.7	1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	5.7	2.5	
67-64-1	Acetone	14	~~B~~	5.7	1.2	
71-43-2	Benzene	0.52	J	1.1	0.23	
75-25-2	Bromoform	0.15	U	1.1	0.15	
74-83-9	Bromomethane	0.36	U	1.1	0.36	
75-15-0	Carbon disulfide	0.49	U	1.1	0.49	
56-23-5	Carbon tetrachloride	0.49	U	1.1	0.49	
108-90-7	Chlorobenzene	0.16	U	1.1	0.16	
74-97-5	Chlorobromomethane	0.19	U	1.1	0.19	
124-48-1	Chlorodibromomethane	0.17	U	1.1	0.17	
75-00-3	Chloroethane	0.40	U	1.1	0.40	
67-66-3	Chloroform	0.24	U	1.1	0.24	
74-87-3	Chloromethane	0.43	U	1.1	0.43	
156-59-2	cis-1,2-Dichloroethene	0.25	U	1.1	0.25	
10061-01-5	cis-1,3-Dichloropropene	0.17	U	1.1	0.17	
110-82-7	Cyclohexane	0.73	J	1.1	0.52	
75-27-4	Dichlorobromomethane	0.43	U	1.1	0.43	
75-71-8	Dichlorodifluoromethane	0.36	UJ	1.1	0.36	ccv
100-41-4	Ethylbenzene	0.22	J	1.1	0.20	
106-93-4	Ethylene Dibromide	0.14	U	1.1	0.14	
98-82-8	Isopropylbenzene	0.19	U	1.1	0.19	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) | Lab Sample ID: 460-92355-5

Matrix: Solid | Lab File ID: K38316.D

Analysis Method: 8260C | Date Collected: 03/27/2015 11:00

Sample wt/vol: 4.86(g) | Date Analyzed: 03/31/2015 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 9.5 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.0	U	5.7	1.0
1634-04-4	Methyl tert-butyl ether	0.19	U	1.1	0.19
108-87-2	Methylcyclohexane	1.1		1.1	0.57
75-09-2	Methylene Chloride	0.36	U	1.1	0.36
179601-23-1	m-Xylene & p-Xylene	0.47	J	1.1	0.13
95-47-6	o-Xylene	0.35	J	1.1	0.18
100-42-5	Styrene	0.17	U	1.1	0.17
127-18-4	Tetrachloroethene	0.32	U	1.1	0.32
108-88-3	Toluene	0.83	J	1.1	0.22
156-60-5	trans-1,2-Dichloroethene	0.44	U	1.1	0.44
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
79-01-6	Trichloroethene	0.30	U	1.1	0.30
75-69-4	Trichlorofluoromethane	0.39	U	1.1	0.39
75-01-4	Vinyl chloride	0.44	U	1.1	0.44
107-06-2	1,2-Dichloroethane	0.13	U	1.1	0.13
95-50-1	1,2-Dichlorobenzene	0.16	U	1.1	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1.1	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene	101		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) | Lab Sample ID: 460-92355-5

Matrix: Solid | Lab File ID: K38316.D

Analysis Method: 8260C | Date Collected: 03/27/2015 11:00

Sample wt/vol: 4.86(g) | Date Analyzed: 03/31/2015 01:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 9.5 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

Number TICs Found: 1 | TIC Result Total: 6.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	1.63	6.4	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: B81093.D

Analysis Method: 8260C | Date Collected: 03/27/2015 12:30

Sample wt/vol: 4.99(g) | Date Analyzed: 03/29/2015 12:34

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 | Level: (low/med) Medium

Analysis Batch No.: 288950 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
74-87-3	Chloromethane	27	U	120	27	
74-83-9	Bromomethane	22	U	120	22	
75-01-4	Vinyl chloride	25	U	120	25	
75-00-3	Chloroethane	45	U	120	45	
75-09-2	Methylene Chloride	26	U	120	26	
67-64-1	Acetone	130	U	610	130	
75-15-0	Carbon disulfide	27	U	120	27	
75-69-4	Trichlorofluoromethane	18	U	120	18	
75-35-4	1,1-Dichloroethene	42	U	120	42	
75-34-3	1,1-Dichloroethane	29	U	120	29	
156-60-5	trans-1,2-Dichloroethene	22	U	120	22	
156-59-2	cis-1,2-Dichloroethene	32	U	120	32	
67-66-3	Chloroform	27	U	120	27	
107-06-2	1,2-Dichloroethane	31	U	120	31	
78-93-3	2-Butanone (MEK)	270	U	610	270	
71-55-6	1,1,1-Trichloroethane	34	U	120	34	
56-23-5	Carbon tetrachloride	40	U	120	40	
75-27-4	Dichlorobromomethane	18	U	120	18	
78-87-5	1,2-Dichloropropane	22	U	120	22	
10061-01-5	cis-1,3-Dichloropropene	20	U	120	20	
79-01-6	Trichloroethene	27	U	120	27	
124-48-1	Chlorodibromomethane	27	U	120	27	
79-00-5	1,1,2-Trichloroethane	9.8	U	120	9.8	
71-43-2	Benzene	2500		120	23	
10061-02-6	trans-1,3-Dichloropropene	23	U	120	23	
75-25-2	Bromoform	22	U	120	22	
108-10-1	4-Methyl-2-pentanone (MIBK)	77	UJ	610	77	ccv
591-78-6	2-Hexanone	88	UJ	610	88	ccv
127-18-4	Tetrachloroethene	44	U	120	44	
79-34-5	1,1,2,2-Tetrachloroethane	23	UJ	120	23	ccv
108-88-3	Toluene	160		120	31	
108-90-7	Chlorobenzene	29	U	120	29	
100-41-4	Ethylbenzene	1500		120	37	
100-42-5	Styrene	120		120	21	
179601-23-1	m-Xylene & p-Xylene	160		120	34	
95-47-6	o-Xylene	150		120	39	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: B81093.D

Analysis Method: 8260C | Date Collected: 03/27/2015 12:30

Sample wt/vol: 4.99(g) | Date Analyzed: 03/29/2015 12:34

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 | Level: (low/med) Medium

Analysis Batch No.: 288950 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	42	U	120	42	
1634-04-4	Methyl tert-butyl ether	16	U	120	16	
110-82-7	Cyclohexane	32	U	120	32	
106-93-4	Ethylene Dibromide	23	U	120	23	
541-73-1	1,3-Dichlorobenzene	40	U	120	40	
106-46-7	1,4-Dichlorobenzene	40	U	120	40	
95-50-1	1,2-Dichlorobenzene	27	U	120	27	
75-71-8	Dichlorodifluoromethane	17	U	120	17	
120-82-1	1,2,4-Trichlorobenzene	33	U	120	33	
123-91-1	1,4-Dioxane	1100	U	3100	1100	
87-61-6	1,2,3-Trichlorobenzene	43	U	120	43	
96-12-8	1,2-Dibromo-3-Chloropropane	28	UJ	120	28	ccv
74-97-5	Chlorobromomethane	37	U	120	37	
98-82-8	Isopropylbenzene	120		120	39	
79-20-9	Methyl acetate	71	UJ	610	71	ccv
108-87-2	Methylcyclohexane	27	UJ	120	27	ccv

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-135
2037-26-5	Toluene-d8 (Surr)	93		59-150
460-00-4	4-Bromofluorobenzene	108		72-133
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) Lab Sample ID: 460-92355-6

Matrix: Solid Lab File ID: B81093.D

Analysis Method: 8260C Date Collected: 03/27/2015 12:30

Sample wt/vol: 4.99(g) Date Analyzed: 03/29/2015 12:34

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 Level: (low/med) Medium

Analysis Batch No.: 288950 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: K38317.D

Analysis Method: 8260C | Date Collected: 03/27/2015 13:00

Sample wt/vol: 5.21(g) | Date Analyzed: 03/31/2015 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.2 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.48	U	1.3	0.48	
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.3	0.22	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	U	1.3	0.56	
79-00-5	1,1,2-Trichloroethane	0.35	U	1.3	0.35	
75-34-3	1,1-Dichloroethane	0.43	U	1.3	0.43	
75-35-4	1,1-Dichloroethene	0.52	U	1.3	0.52	
87-61-6	1,2,3-Trichlorobenzene	0.14	U	1.3	0.14	
120-82-1	1,2,4-Trichlorobenzene	0.40	U	1.3	0.40	
78-87-5	1,2-Dichloropropane	0.22	U	1.3	0.22	
541-73-1	1,3-Dichlorobenzene	0.15	U	1.3	0.15	
106-46-7	1,4-Dichlorobenzene	0.16	U	1.3	0.16	
123-91-1	1,4-Dioxane	8.1	U	25	8.1	
78-93-3	2-Butanone (MEK)	0.97	U	6.3	0.97	
591-78-6	2-Hexanone	1.2	U	6.3	1.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.8	U	6.3	2.8	
67-64-1	Acetone	8.1	~~B~~ U	6.3	1.3	mb
71-43-2	Benzene	0.25	U	1.3	0.25	
75-25-2	Bromoform	0.16	U	1.3	0.16	
74-83-9	Bromomethane	0.40	U	1.3	0.40	
75-15-0	Carbon disulfide	0.54	U	1.3	0.54	
56-23-5	Carbon tetrachloride	0.54	U	1.3	0.54	
108-90-7	Chlorobenzene	0.18	U	1.3	0.18	
74-97-5	Chlorobromomethane	0.22	U	1.3	0.22	
124-48-1	Chlorodibromomethane	0.19	U	1.3	0.19	
75-00-3	Chloroethane	0.44	U	1.3	0.44	
67-66-3	Chloroform	0.27	U	1.3	0.27	
74-87-3	Chloromethane	0.48	U	1.3	0.48	
156-59-2	cis-1,2-Dichloroethene	0.28	U	1.3	0.28	
10061-01-5	cis-1,3-Dichloropropene	0.19	U	1.3	0.19	
110-82-7	Cyclohexane	0.58	U	1.3	0.58	
75-27-4	Dichlorobromomethane	0.48	U	1.3	0.48	
75-71-8	Dichlorodifluoromethane	0.40	UJ	1.3	0.40	ccv
100-41-4	Ethylbenzene	0.23	U	1.3	0.23	
106-93-4	Ethylene Dibromide	0.15	U	1.3	0.15	
98-82-8	Isopropylbenzene	0.22	U	1.3	0.22	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: K38317.D

Analysis Method: 8260C | Date Collected: 03/27/2015 13:00

Sample wt/vol: 5.21(g) | Date Analyzed: 03/31/2015 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.2 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.1	U	6.3	1.1
1634-04-4	Methyl tert-butyl ether	0.22	U	1.3	0.22
108-87-2	Methylcyclohexane	0.63	U	1.3	0.63
75-09-2	Methylene Chloride	1.3 U ~~0.53~~ ~~J B~~		1.3	0.40
179601-23-1	m-Xylene & p-Xylene	0.14	U	1.3	0.14
95-47-6	o-Xylene	0.20	U	1.3	0.20
100-42-5	Styrene	0.19	U	1.3	0.19
127-18-4	Tetrachloroethene	0.35	U	1.3	0.35
108-88-3	Toluene	0.24	U	1.3	0.24
156-60-5	trans-1,2-Dichloroethene	0.49	U	1.3	0.49
10061-02-6	trans-1,3-Dichloropropene	0.13	U	1.3	0.13
79-01-6	Trichloroethene	0.33	U	1.3	0.33
75-69-4	Trichlorofluoromethane	0.43	U	1.3	0.43
75-01-4	Vinyl chloride	0.49	U	1.3	0.49
107-06-2	1,2-Dichloroethane	0.14	U	1.3	0.14
95-50-1	1,2-Dichlorobenzene	0.18	U	1.3	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	0.59	U	1.3	0.59

mb

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: K38317.D

Analysis Method: 8260C | Date Collected: 03/27/2015 13:00

Sample wt/vol: 5.21(g) | Date Analyzed: 03/31/2015 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.2 | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: K38493.D

Analysis Method: 8260C | Date Collected: 03/30/2015 11:45

Sample wt/vol: 5.44(g) | Date Analyzed: 04/03/2015 08:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.39	U	1.0	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	0.18	U	1.0	0.18	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	1.0	0.46	
79-00-5	1,1,2-Trichloroethane	0.29	U	1.0	0.29	
75-34-3	1,1-Dichloroethane	0.35	U	1.0	0.35	
75-35-4	1,1-Dichloroethene	0.42	U	1.0	0.42	
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	0.33	U	1.0	0.33	
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18	
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12	
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13	
123-91-1	1,4-Dioxane	6.6	U	21	6.6	
78-93-3	2-Butanone (MEK)	4.7	J	5.2	0.80	<RL, ccv
591-78-6	2-Hexanone	0.97	U	5.2	0.97	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.3	U	5.2	2.3	
67-64-1	Acetone	16	~~B~~ J+	5.2	1.1	ccv, mb
71-43-2	Benzene	0.21	U	1.0	0.21	
75-25-2	Bromoform	0.13	U	1.0	0.13	
74-83-9	Bromomethane	0.33	U	1.0	0.33	
75-15-0	Carbon disulfide	0.45	U	1.0	0.45	
56-23-5	Carbon tetrachloride	0.45	U	1.0	0.45	
108-90-7	Chlorobenzene	0.14	U	1.0	0.14	
74-97-5	Chlorobromomethane	0.18	U	1.0	0.18	
124-48-1	Chlorodibromomethane	0.16	U	1.0	0.16	
75-00-3	Chloroethane	0.36	UJ	1.0	0.36	ccv
67-66-3	Chloroform	0.22	U	1.0	0.22	
74-87-3	Chloromethane	0.39	UJ	1.0	0.39	ccv
156-59-2	cis-1,2-Dichloroethene	0.23	U	1.0	0.23	
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16	
110-82-7	Cyclohexane	0.48	U	1.0	0.48	
75-27-4	Dichlorobromomethane	0.39	U	1.0	0.39	
75-71-8	Dichlorodifluoromethane	0.33	U	1.0	0.33	
100-41-4	Ethylbenzene	0.19	U	1.0	0.19	
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12	
98-82-8	Isopropylbenzene	0.18	U	1.0	0.18	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: K38493.D

Analysis Method: 8260C | Date Collected: 03/30/2015 11:45

Sample wt/vol: 5.44(g) | Date Analyzed: 04/03/2015 08:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	0.93	U	5.2	0.93	
1634-04-4	Methyl tert-butyl ether	0.18	U	1.0	0.18	
108-87-2	Methylcyclohexane	0.52	U	1.0	0.52	
75-09-2	Methylene Chloride	0.33	U	1.0	0.33	
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11	
95-47-6	o-Xylene	0.17	U	1.0	0.17	
100-42-5	Styrene	0.16	U	1.0	0.16	
127-18-4	Tetrachloroethene	0.29	U	1.0	0.29	
108-88-3	Toluene	0.20	U	1.0	0.20	
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10	
79-01-6	Trichloroethene	0.27	U	1.0	0.27	
75-69-4	Trichlorofluoromethane	0.35	U	1.0	0.35	
75-01-4	Vinyl chloride	0.40	UJ	1.0	0.40	ccv
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11	
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-Chloropropane	0.49	U	1.0	0.49	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene	109		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) Lab Sample ID: 460-92511-1

Matrix: Solid Lab File ID: K38493.D

Analysis Method: 8260C Date Collected: 03/30/2015 11:45

Sample wt/vol: 5.44(g) Date Analyzed: 04/03/2015 08:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 Level: (low/med) Low

Analysis Batch No.: 290056 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) | Lab Sample ID: 460-92511-2

Matrix: Solid | Lab File ID: K38494.D

Analysis Method: 8260C | Date Collected: 03/30/2015 12:45

Sample wt/vol: 5.94(g) | Date Analyzed: 04/03/2015 09:20

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.36	U	0.95	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	0.16	U	0.95	0.16	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	U	0.95	0.42	
79-00-5	1,1,2-Trichloroethane	0.27	U	0.95	0.27	
75-34-3	1,1-Dichloroethane	0.32	U	0.95	0.32	
75-35-4	1,1-Dichloroethene	0.39	U	0.95	0.39	
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.95	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.30	U	0.95	0.30	
78-87-5	1,2-Dichloropropane	0.16	U	0.95	0.16	
541-73-1	1,3-Dichlorobenzene	0.11	U	0.95	0.11	
106-46-7	1,4-Dichlorobenzene	0.12	U	0.95	0.12	
123-91-1	1,4-Dioxane	6.1	U	19	6.1	
78-93-3	2-Butanone (MEK)	0.73	U	4.7	0.73	
591-78-6	2-Hexanone	0.89	U	4.7	0.89	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.1	U	4.7	2.1	
67-64-1	Acetone	7.7	~~B~~ U	4.7	1.0	MB
71-43-2	Benzene	0.19	U	0.95	0.19	
75-25-2	Bromoform	0.12	U	0.95	0.12	
74-83-9	Bromomethane	0.30	U	0.95	0.30	
75-15-0	Carbon disulfide	0.49	J	0.95	0.41	CCV, <RL
56-23-5	Carbon tetrachloride	0.41	U	0.95	0.41	
108-90-7	Chlorobenzene	0.13	U	0.95	0.13	
74-97-5	Chlorobromomethane	0.16	U	0.95	0.16	
124-48-1	Chlorodibromomethane	0.14	U	0.95	0.14	
75-00-3	Chloroethane	0.33	UJ	0.95	0.33	CCV
67-66-3	Chloroform	0.20	U	0.95	0.20	
74-87-3	Chloromethane	0.36	UJ	0.95	0.36	CCV
156-59-2	cis-1,2-Dichloroethene	0.49	J	0.95	0.21	
10061-01-5	cis-1,3-Dichloropropene	0.14	U	0.95	0.14	
110-82-7	Cyclohexane	0.44	U	0.95	0.44	
75-27-4	Dichlorobromomethane	0.36	U	0.95	0.36	
75-71-8	Dichlorodifluoromethane	0.30	U	0.95	0.30	
100-41-4	Ethylbenzene	0.17	U	0.95	0.17	
106-93-4	Ethylene Dibromide	0.11	U	0.95	0.11	
98-82-8	Isopropylbenzene	0.16	U	0.95	0.16	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) | Lab Sample ID: 460-92511-2

Matrix: Solid | Lab File ID: K38494.D

Analysis Method: 8260C | Date Collected: 03/30/2015 12:45

Sample wt/vol: 5.94(g) | Date Analyzed: 04/03/2015 09:20

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.85	U	4.7	0.85
1634-04-4	Methyl tert-butyl ether	0.16	U	0.95	0.16
108-87-2	Methylcyclohexane	0.47	U	0.95	0.47
75-09-2	Methylene Chloride	0.30	U	0.95	0.30
179601-23-1	m-Xylene & p-Xylene	0.10	U	0.95	0.10
95-47-6	o-Xylene	0.15	U	0.95	0.15
100-42-5	Styrene	0.14	U	0.95	0.14
127-18-4	Tetrachloroethene	1.2		0.95	0.27
108-88-3	Toluene	0.18	U	0.95	0.18
156-60-5	trans-1,2-Dichloroethene	0.37	U	0.95	0.37
10061-02-6	trans-1,3-Dichloropropene	0.095	U	0.95	0.095
79-01-6	Trichloroethene	0.51	J	0.95	0.25
75-69-4	Trichlorofluoromethane	0.32	U	0.95	0.32
75-01-4	Vinyl chloride	0.37	UJ	0.95	0.37
107-06-2	1,2-Dichloroethane	0.10	U	0.95	0.10
95-50-1	1,2-Dichlorobenzene	0.13	U	0.95	0.13
96-12-8	1,2-Dibromo-3-Chloropropane	0.45	U	0.95	0.45

CCV

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene	112		70-130
1868-53-7	Dibromofluoromethane (Surr)	112		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) Lab Sample ID: 460-92511-2

Matrix: Solid Lab File ID: K38494.D

Analysis Method: 8260C Date Collected: 03/30/2015 12:45

Sample wt/vol: 5.94(g) Date Analyzed: 04/03/2015 09:20

Soil Aliquot Vol: 5 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 11.2 Level: (low/med) Low

Analysis Batch No.: 290056 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) Lab Sample ID: 460-92511-3

Matrix: Solid Lab File ID: K38495.D

Analysis Method: 8260C Date Collected: 03/30/2015 13:30

Sample wt/vol: 5.59(g) Date Analyzed: 04/03/2015 09:44

Soil Aliquot Vol: 5 (mL) Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.3 Level: (low/med) Low

Analysis Batch No.: 290056 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.39	U	1.0	0.39	
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	U	1.0	0.45	
79-00-5	1,1,2-Trichloroethane	0.29	U	1.0	0.29	
75-34-3	1,1-Dichloroethane	0.35	U	1.0	0.35	
75-35-4	1,1-Dichloroethene	0.42	U	1.0	0.42	
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	0.33	U	1.0	0.33	
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17	
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12	
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13	
123-91-1	1,4-Dioxane	6.5	U	20	6.5	
78-93-3	2-Butanone (MEK)	0.79	U	5.1	0.79	
591-78-6	2-Hexanone	0.96	U	5.1	0.96	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.3	U	5.1	2.3	
67-64-1	Acetone	6.6	~~B~~ U	5.1	1.1	MB
71-43-2	Benzene	0.20	U	1.0	0.20	
75-25-2	Bromoform	0.13	U	1.0	0.13	
74-83-9	Bromomethane	0.33	U	1.0	0.33	
75-15-0	Carbon disulfide	0.44	U	1.0	0.44	
56-23-5	Carbon tetrachloride	0.44	U	1.0	0.44	
108-90-7	Chlorobenzene	0.14	U	1.0	0.14	
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17	
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15	
75-00-3	Chloroethane	0.36	UJ	1.0	0.36	CCV
67-66-3	Chloroform	0.21	U	1.0	0.21	
74-87-3	Chloromethane	0.39	UJ	1.0	0.39	CCV
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22	
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15	
110-82-7	Cyclohexane	0.47	U	1.0	0.47	
75-27-4	Dichlorobromomethane	0.39	U	1.0	0.39	
75-71-8	Dichlorodifluoromethane	0.33	U	1.0	0.33	
100-41-4	Ethylbenzene	0.18	U	1.0	0.18	
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12	
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: K38495.D

Analysis Method: 8260C | Date Collected: 03/30/2015 13:30

Sample wt/vol: 5.59(g) | Date Analyzed: 04/03/2015 09:44

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.3 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	0.92	U	5.1	0.92	
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17	
108-87-2	Methylcyclohexane	0.51	U	1.0	0.51	
75-09-2	Methylene Chloride	0.90	J	1.0	0.33	
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11	
95-47-6	o-Xylene	0.16	U	1.0	0.16	
100-42-5	Styrene	0.15	U	1.0	0.15	
127-18-4	Tetrachloroethene	0.82	J	1.0	0.29	
108-88-3	Toluene	0.19	U	1.0	0.19	
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10	
79-01-6	Trichloroethene	0.27	U	1.0	0.27	
75-69-4	Trichlorofluoromethane	0.35	U	1.0	0.35	
75-01-4	Vinyl chloride	0.40	UJ	1.0	0.40	ccv
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11	
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-Chloropropane	0.48	U	1.0	0.48	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene	116		70-130
1868-53-7	Dibromofluoromethane (Surr)	113		70-130
2037-26-5	Toluene-d8 (Surr)	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: K38495.D

Analysis Method: 8260C | Date Collected: 03/30/2015 13:30

Sample wt/vol: 5.59(g) | Date Analyzed: 04/03/2015 09:44

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.3 | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) | Lab Sample ID: 460-92568-1

Matrix: Solid | Lab File ID: K38581.D

Analysis Method: 8260C | Date Collected: 04/01/2015 07:45

Sample wt/vol: 5.87(g) | Date Analyzed: 04/05/2015 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.3 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.38	U	0.99	0.38	
79-34-5	1,1,2,2-Tetrachloroethane	0.17	UJ	0.99	0.17	CCV
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	0.99	0.44	
79-00-5	1,1,2-Trichloroethane	0.28	U	0.99	0.28	
75-34-3	1,1-Dichloroethane	0.34	U	0.99	0.34	
75-35-4	1,1-Dichloroethene	0.41	U	0.99	0.41	
87-61-6	1,2,3-Trichlorobenzene	0.11	U	0.99	0.11	
120-82-1	1,2,4-Trichlorobenzene	0.32	U	0.99	0.32	
78-87-5	1,2-Dichloropropane	0.17	U	0.99	0.17	
541-73-1	1,3-Dichlorobenzene	0.12	U	0.99	0.12	
106-46-7	1,4-Dichlorobenzene	0.13	U	0.99	0.13	
123-91-1	1,4-Dioxane	6.4	U	20	6.4	
78-93-3	2-Butanone (MEK)	5.2	J	5.0	0.77	CCV
591-78-6	2-Hexanone	0.93	U	5.0	0.93	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2	
67-64-1	Acetone	23	~~B~~ J+	5.0	1.1	CCV, MB
71-43-2	Benzene	0.60	J	0.99	0.20	
75-25-2	Bromoform	0.13	U	0.99	0.13	
74-83-9	Bromomethane	0.32	U	0.99	0.32	
75-15-0	Carbon disulfide	0.43	U	0.99	0.43	
56-23-5	Carbon tetrachloride	0.43	U	0.99	0.43	
108-90-7	Chlorobenzene	0.14	U	0.99	0.14	
74-97-5	Chlorobromomethane	0.17	U	0.99	0.17	
124-48-1	Chlorodibromomethane	0.15	U	0.99	0.15	
75-00-3	Chloroethane	0.35	U	0.99	0.35	
67-66-3	Chloroform	0.21	U	0.99	0.21	
74-87-3	Chloromethane	0.38	UJ	0.99	0.38	CCV
156-59-2	cis-1,2-Dichloroethene	0.22	U	0.99	0.22	
10061-01-5	cis-1,3-Dichloropropene	0.15	U	0.99	0.15	
110-82-7	Cyclohexane	0.46	U	0.99	0.46	
75-27-4	Dichlorobromomethane	0.38	U	0.99	0.38	
75-71-8	Dichlorodifluoromethane	0.32	U	0.99	0.32	
100-41-4	Ethylbenzene	2.4		0.99	0.18	
106-93-4	Ethylene Dibromide	0.12	U	0.99	0.12	
98-82-8	Isopropylbenzene	0.17	U	0.99	0.17	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) | Lab Sample ID: 460-92568-1

Matrix: Solid | Lab File ID: K38581.D

Analysis Method: 8260C | Date Collected: 04/01/2015 07:45

Sample wt/vol: 5.87(g) | Date Analyzed: 04/05/2015 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.3 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	0.89	UJ	5.0	0.89	ccv
1634-04-4	Methyl tert-butyl ether	0.17	U	0.99	0.17	
108-87-2	Methylcyclohexane	0.50	U	0.99	0.50	
75-09-2	Methylene Chloride	0.32	U	0.99	0.32	
179601-23-1	m-Xylene & p-Xylene	2.4		0.99	0.11	
95-47-6	o-Xylene	1.6		0.99	0.16	
100-42-5	Styrene	0.16	J	0.99	0.15	
127-18-4	Tetrachloroethene	0.28	U	0.99	0.28	
108-88-3	Toluene	2.4		0.99	0.19	
156-60-5	trans-1,2-Dichloroethene	0.39	U	0.99	0.39	
10061-02-6	trans-1,3-Dichloropropene	0.099	U	0.99	0.099	
79-01-6	Trichloroethene	0.26	U	0.99	0.26	
75-69-4	Trichlorofluoromethane	0.34	U	0.99	0.34	
75-01-4	Vinyl chloride	0.39	UJ	0.99	0.39	ccv
107-06-2	1,2-Dichloroethane	0.11	U	0.99	0.11	
95-50-1	1,2-Dichlorobenzene	0.14	U	0.99	0.14	
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	0.99	0.47	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		70-130
460-00-4	4-Bromofluorobenzene	124		70-130
1868-53-7	Dibromofluoromethane (Surr)	128		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) | Lab Sample ID: 460-92568-1

Matrix: Solid | Lab File ID: K38581.D

Analysis Method: 8260C | Date Collected: 04/01/2015 07:45

Sample wt/vol: 5.87(g) | Date Analyzed: 04/05/2015 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.3 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

Number TICs Found: 9 | TIC Result Total: 156.5

CAS NO.	COMPOUND NAME	RT	RESULT	Q
91-20-3	Naphthalene	12.48	54	~~J N~~
91-57-6	Naphthalene, 2-methyl-	13.32	29	J N
90-12-0	Naphthalene, 1-methyl-	13.49	24	J N
581-42-0	Naphthalene, 2,6-dimethyl-	14.31	8.0	J N
571-58-4	Naphthalene, 1,4-dimethyl-	14.49	11	J N
582-16-1	Naphthalene, 2,7-dimethyl-	14.54	7.1	J N
571-61-9	Naphthalene, 1,5-dimethyl-	14.79	6.3	J N
259-79-0	Biphenylene	15.16	6.1	J N
83-32-9	Acenaphthene	15.45	11	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) | Lab Sample ID: 460-92568-2

Matrix: Solid | Lab File ID: B81285.D

Analysis Method: 8260C | Date Collected: 04/01/2015 08:15

Sample wt/vol: 5.84(g) | Date Analyzed: 04/02/2015 18:42

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.7 | Level: (low/med) Medium

Analysis Batch No.: 289854 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	230	U	1100	230
74-83-9	Bromomethane	190	U	1100	190
75-01-4	Vinyl chloride	210	U	1100	210
75-00-3	Chloroethane	390	U	1100	390
75-09-2	Methylene Chloride	220	U	1100	220
67-64-1	Acetone	1100	U	5300	1100
75-15-0	Carbon disulfide	230	U	1100	230
75-69-4	Trichlorofluoromethane	160	U	1100	160
75-35-4	1,1-Dichloroethene	360	U	1100	360
75-34-3	1,1-Dichloroethane	260	U	1100	260
156-60-5	trans-1,2-Dichloroethene	190	U	1100	190
156-59-2	cis-1,2-Dichloroethene	280	U	1100	280
67-66-3	Chloroform	230	U	1100	230
107-06-2	1,2-Dichloroethane	270	U	1100	270
78-93-3	2-Butanone (MEK)	2300	U	5300	2300
71-55-6	1,1,1-Trichloroethane	300	U	1100	300
56-23-5	Carbon tetrachloride	350	U	1100	350
75-27-4	Dichlorobromomethane	160	U	1100	160
78-87-5	1,2-Dichloropropane	190	U	1100	190
10061-01-5	cis-1,3-Dichloropropene	170	U	1100	170
79-01-6	Trichloroethene	230	U	1100	230
124-48-1	Chlorodibromomethane	230	U	1100	230
79-00-5	1,1,2-Trichloroethane	85	U	1100	85
71-43-2	Benzene	3700		1100	200
10061-02-6	trans-1,3-Dichloropropene	200	U	1100	200
75-25-2	Bromoform	190	U	1100	190
108-10-1	4-Methyl-2-pentanone (MIBK)	670	U	5300	670
591-78-6	2-Hexanone	770	U	5300	770
127-18-4	Tetrachloroethene	380	U	1100	380
79-34-5	1,1,2,2-Tetrachloroethane	200	U	1100	200
108-88-3	Toluene	18000		1100	270
108-90-7	Chlorobenzene	260	U	1100	260
100-41-4	Ethylbenzene	110000		1100	320
100-42-5	Styrene	180	U	1100	180
179601-23-1	m-Xylene & p-Xylene	110000		1100	300
95-47-6	o-Xylene	61000		1100	340

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) | Lab Sample ID: 460-92568-2

Matrix: Solid | Lab File ID: B81285.D

Analysis Method: 8260C | Date Collected: 04/01/2015 08:15

Sample wt/vol: 5.84(g) | Date Analyzed: 04/02/2015 18:42

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.7 | Level: (low/med) Medium

Analysis Batch No.: 289854 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	360	U	1100	360
1634-04-4	Methyl tert-butyl ether	140	U	1100	140
110-82-7	Cyclohexane	280	U	1100	280
106-93-4	Ethylene Dibromide	200	U	1100	200
541-73-1	1,3-Dichlorobenzene	350	U	1100	350
106-46-7	1,4-Dichlorobenzene	350	U	1100	350
95-50-1	1,2-Dichlorobenzene	230	U	1100	230
75-71-8	Dichlorodifluoromethane	150	U	1100	150
120-82-1	1,2,4-Trichlorobenzene	290	U	1100	290
123-91-1	1,4-Dioxane	9300	U	27000	9300
87-61-6	1,2,3-Trichlorobenzene	370	U	1100	370
~~96-12-8~~	~~1,2-Dibromo-3-Chloropropane~~	~~250~~	~~U~~ R	~~1100~~	~~250~~ RRF LO.
74-97-5	Chlorobromomethane	320	U	1100	320
98-82-8	Isopropylbenzene	10000		1100	340
79-20-9	Methyl acetate	620	U	5300	620
108-87-2	Methylcyclohexane	230	U	1100	230

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-135
2037-26-5	Toluene-d8 (Surr)	105		59-150
460-00-4	4-Bromofluorobenzene	121		72-133
1868-53-7	Dibromofluoromethane (Surr)	118		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) Lab Sample ID: 460-92568-2

Matrix: Solid Lab File ID: B81285.D

Analysis Method: 8260C Date Collected: 04/01/2015 08:15

Sample wt/vol: 5.84(g) Date Analyzed: 04/02/2015 18:42

Soil Aliquot Vol: 5 (mL) Dilution Factor: 500

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.7 Level: (low/med) Medium

Analysis Batch No.: 289854 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 823000

CAS NO.	COMPOUND NAME	RT	RESULT	Q
620-14-4	Benzene, 1-ethyl-3-methyl-	9.96	120000	J N
95-63-6	Benzene, 1,2,4-trimethyl-	10.36	83000	J N
622-97-9	Benzene, 1-ethenyl-4-methyl-	10.43	35000	J N
108-67-8	Benzene, 1,3,5-trimethyl-	10.71	33000	J N
496-11-7	Indane	10.86	140000	J N
95-13-6	Indene	11.05	100000	J N
527-53-7	Benzene, 1,2,3,5-tetramethyl-	11.91	27000	J N
22433-39-2	Benzene,1-methyl-1,2-propadienyl-	11.97	57000	J N
622-76-4	Benzene, 1-butynyl-	12.06	58000	J N
91-20-3	Naphthalene	12.43	170000	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: K38664.D

Analysis Method: 8260C | Date Collected: 04/01/2015 09:45

Sample wt/vol: 5.11(g) | Date Analyzed: 04/07/2015 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.1 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.42	U	1.1	0.42
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.1	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	U	1.1	0.49
79-00-5	1,1,2-Trichloroethane	0.31	U	1.1	0.31
75-34-3	1,1-Dichloroethane	0.38	U	1.1	0.38
75-35-4	1,1-Dichloroethene	0.46	U	1.1	0.46
87-61-6	1,2,3-Trichlorobenzene	0.12	U	1.1	0.12
120-82-1	1,2,4-Trichlorobenzene	0.36	U	1.1	0.36
78-87-5	1,2-Dichloropropane	0.19	U	1.1	0.19
541-73-1	1,3-Dichlorobenzene	0.13	U	1.1	0.13
106-46-7	1,4-Dichlorobenzene	0.17	J	1.1	0.14
123-91-1	1,4-Dioxane	7.1	U	22	7.1
78-93-3	2-Butanone (MEK)	0.86	U	5.6	0.86
591-78-6	2-Hexanone	1.0	U	5.6	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	2.5	U	5.6	2.5
67-64-1	Acetone	1.2	U	5.6	1.2
71-43-2	Benzene	0.48	J	1.1	0.22
75-25-2	Bromoform	0.14	U	1.1	0.14
74-83-9	Bromomethane	0.36	U	1.1	0.36
75-15-0	Carbon disulfide	0.70	J	1.1	0.48
56-23-5	Carbon tetrachloride	0.48	U	1.1	0.48
108-90-7	Chlorobenzene	0.16	U	1.1	0.16
74-97-5	Chlorobromomethane	0.19	U	1.1	0.19
124-48-1	Chlorodibromomethane	0.17	U	1.1	0.17
75-00-3	Chloroethane	0.39	U	1.1	0.39
67-66-3	Chloroform	0.23	U	1.1	0.23
74-87-3	Chloromethane	0.42	U	1.1	0.42
156-59-2	cis-1,2-Dichloroethene	2.2		1.1	0.24
10061-01-5	cis-1,3-Dichloropropene	0.17	U	1.1	0.17
110-82-7	Cyclohexane	0.51	U	1.1	0.51
75-27-4	Dichlorobromomethane	0.42	U	1.1	0.42
75-71-8	Dichlorodifluoromethane	0.36	U	1.1	0.36
100-41-4	Ethylbenzene	3.8		1.1	0.20
106-93-4	Ethylene Dibromide	0.13	U	1.1	0.13
98-82-8	Isopropylbenzene	0.92	J	1.1	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: K38664.D

Analysis Method: 8260C | Date Collected: 04/01/2015 09:45

Sample wt/vol: 5.11(g) | Date Analyzed: 04/07/2015 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.1 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.0	U	5.6	1.0
1634-04-4	Methyl tert-butyl ether	0.19	U	1.1	0.19
108-87-2	Methylcyclohexane	0.56	U	1.1	0.56
75-09-2	Methylene Chloride	0.36	U	1.1	0.36
179601-23-1	m-Xylene & p-Xylene	3.0		1.1	0.12
95-47-6	o-Xylene	1.9		1.1	0.18
100-42-5	Styrene	0.73	J	1.1	0.17
127-18-4	Tetrachloroethene	33		1.1	0.31
108-88-3	Toluene	0.91	J	1.1	0.21
156-60-5	trans-1,2-Dichloroethene	0.43	U	1.1	0.43
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
79-01-6	Trichloroethene	0.80	J	1.1	0.29
75-69-4	Trichlorofluoromethane	0.38	U	1.1	0.38
75-01-4	Vinyl chloride	0.43	U	1.1	0.43
107-06-2	1,2-Dichloroethane	0.12	U	1.1	0.12
95-50-1	1,2-Dichlorobenzene	0.38	J	1.1	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.52	U	1.1	0.52

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: K38664.D

Analysis Method: 8260C | Date Collected: 04/01/2015 09:45

Sample wt/vol: 5.11(g) | Date Analyzed: 04/07/2015 17:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.1 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 2380

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-93-2	Benzene, 1,2,4,5-tetramethyl-	12.02	110	J N
91-20-3	Naphthalene	12.47	130	~~J N~~
2177-48-2	1H-Indene, 1,3-dimethyl-	12.95	140	J N
90-12-0	Naphthalene, 1-methyl-	13.48	830	J N
92-52-4	Biphenyl	13.97	130	J N
581-42-0	Naphthalene, 2,6-dimethyl-	14.31	320	J N
581-40-8	Naphthalene, 2,3-dimethyl-	14.49	310	J N
571-61-9	Naphthalene, 1,5-dimethyl-	14.53	180	J N
575-43-9	Naphthalene, 1,6-dimethyl-	14.78	110	J N
83-32-9	Acenaphthene	15.44	120	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: K38663.D

Analysis Method: 8260C | Date Collected: 03/31/2015 14:30

Sample wt/vol: 4.83(g) | Date Analyzed: 04/07/2015 16:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.47	U	1.2	0.47	
79-34-5	1,1,2,2-Tetrachloroethane	0.21	UJF1	1.2	0.21	ms
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	U	1.2	0.54	
79-00-5	1,1,2-Trichloroethane	0.35	UJF1	1.2	0.35	ms
75-34-3	1,1-Dichloroethane	0.42	U	1.2	0.42	
75-35-4	1,1-Dichloroethene	0.51	UJF1	1.2	0.51	ms
87-61-6	1,2,3-Trichlorobenzene	0.14	UJF1	1.2	0.14	ms
120-82-1	1,2,4-Trichlorobenzene	0.40	UJF1	1.2	0.40	ms
78-87-5	1,2-Dichloropropane	0.21	U	1.2	0.21	
541-73-1	1,3-Dichlorobenzene	0.15	UJF1	1.2	0.15	ms
106-46-7	1,4-Dichlorobenzene	0.16	UJF1	1.2	0.16	ms
123-91-1	1,4-Dioxane	7.9	U	25	7.9	
78-93-3	2-Butanone (MEK)	0.95	U	6.2	0.95	
591-78-6	2-Hexanone	1.2	U	6.2	1.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	6.2	2.7	
67-64-1	Acetone	1.3	U	6.2	1.3	
71-43-2	Benzene	0.25	U	1.2	0.25	
75-25-2	Bromoform	0.16	U	1.2	0.16	
74-83-9	Bromomethane	0.40	U	1.2	0.40	
75-15-0	Carbon disulfide	0.53	UJF1	1.2	0.53	ms
56-23-5	Carbon tetrachloride	0.53	U	1.2	0.53	
108-90-7	Chlorobenzene	0.17	UJF1	1.2	0.17	ms
74-97-5	Chlorobromomethane	0.21	U	1.2	0.21	
124-48-1	Chlorodibromomethane	0.19	U	1.2	0.19	
75-00-3	Chloroethane	0.43	U	1.2	0.43	
67-66-3	Chloroform	0.26	U	1.2	0.26	
74-87-3	Chloromethane	0.47	U	1.2	0.47	
156-59-2	cis-1,2-Dichloroethene	0.27	U	1.2	0.27	
10061-01-5	cis-1,3-Dichloropropene	0.19	UJF1	1.2	0.19	ms
110-82-7	Cyclohexane	0.57	U	1.2	0.57	
75-27-4	Dichlorobromomethane	0.47	U	1.2	0.47	
75-71-8	Dichlorodifluoromethane	0.40	U	1.2	0.40	
100-41-4	Ethylbenzene	0.22	UJF1	1.2	0.22	ms
106-93-4	Ethylene Dibromide	0.15	UJF1	1.2	0.15	ms
98-82-8	Isopropylbenzene	0.21	U	1.2	0.21	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: K38663.D

Analysis Method: 8260C | Date Collected: 03/31/2015 14:30

Sample wt/vol: 4.83(g) | Date Analyzed: 04/07/2015 16:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	1.1	U	6.2	1.1	
1634-04-4	Methyl tert-butyl ether	0.21	U	1.2	0.21	
108-87-2	Methylcyclohexane	0.62	U	1.2	0.62	
75-09-2	Methylene Chloride	0.40	U	1.2	0.40	
179601-23-1	m-Xylene & p-Xylene	0.14	U	1.2	0.14	
95-47-6	o-Xylene	0.20	U	1.2	0.20	
100-42-5	Styrene	0.19	UJ~~P1~~	1.2	0.19	ms
127-18-4	Tetrachloroethene	0.35	U	1.2	0.35	
108-88-3	Toluene	0.23	UJ~~P1~~	1.2	0.23	ms
156-60-5	trans-1,2-Dichloroethene	0.48	U	1.2	0.48	
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12	
79-01-6	Trichloroethene	0.32	U	1.2	0.32	
75-69-4	Trichlorofluoromethane	0.42	U	1.2	0.42	
75-01-4	Vinyl chloride	0.48	U	1.2	0.48	
107-06-2	1,2-Dichloroethane	0.14	U	1.2	0.14	
95-50-1	1,2-Dichlorobenzene	0.17	UJ~~P1~~	1.2	0.17	ms.
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	1.2	0.58	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
460-00-4	4-Bromofluorobenzene	107		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: K38663.D

Analysis Method: 8260C | Date Collected: 03/31/2015 14:30

Sample wt/vol: 4.83(g) | Date Analyzed: 04/07/2015 16:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) | Lab Sample ID: 460-92568-5

Matrix: Solid | Lab File ID: C06778.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.86(g) | Date Analyzed: 04/07/2015 14:32

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.8 | Level: (low/med) Medium

Analysis Batch No.: 290707 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
74-87-3	Chloromethane	22	U	98	22	
74-83-9	Bromomethane	18	UJ	98	18	ccv
75-01-4	Vinyl chloride	20	U	98	20	
75-00-3	Chloroethane	36	U	98	36	
75-09-2	Methylene Chloride	21	U	98	21	
67-64-1	Acetone	100	UJ	490	100	ccv
75-15-0	Carbon disulfide	22	U	98	22	
75-69-4	Trichlorofluoromethane	15	U	98	15	
75-35-4	1,1-Dichloroethene	33	U	98	33	
75-34-3	1,1-Dichloroethane	23	U	98	23	
156-60-5	trans-1,2-Dichloroethene	18	U	98	18	
156-59-2	cis-1,2-Dichloroethene	25	U	98	25	
67-66-3	Chloroform	22	U	98	22	
107-06-2	1,2-Dichloroethane	24	U	98	24	
78-93-3	2-Butanone (MEK)	220	U	490	220	
71-55-6	1,1,1-Trichloroethane	27	U	98	27	
56-23-5	Carbon tetrachloride	32	U	98	32	
75-27-4	Dichlorobromomethane	15	U	98	15	
78-87-5	1,2-Dichloropropane	18	U	98	18	
10061-01-5	cis-1,3-Dichloropropene	16	U	98	16	
79-01-6	Trichloroethene	22	U	98	22	
124-48-1	Chlorodibromomethane	22	U	98	22	
79-00-5	1,1,2-Trichloroethane	7.8	U	98	7.8	
71-43-2	Benzene	5000		98	19	
10061-02-6	trans-1,3-Dichloropropene	19	U	98	19	
75-25-2	Bromoform	18	UJ	98	18	ccv
108-10-1	4-Methyl-2-pentanone (MIBK)	62	U	490	62	
591-78-6	2-Hexanone	70	U	490	70	
127-18-4	Tetrachloroethene	35	U	98	35	
79-34-5	1,1,2,2-Tetrachloroethane	19	U	98	19	
108-88-3	Toluene	6800		98	24	
108-90-7	Chlorobenzene	23	U	98	23	
100-41-4	Ethylbenzene	740		98	29	
100-42-5	Styrene	6400		98	17	
179601-23-1	m-Xylene & p-Xylene	4500		98	27	
95-47-6	o-Xylene	2100		98	31	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) | Lab Sample ID: 460-92568-5

Matrix: Solid | Lab File ID: C06778.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.86(g) | Date Analyzed: 04/07/2015 14:32

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.8 | Level: (low/med) Medium

Analysis Batch No.: 290707 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	33	U	98	33	
1634-04-4	Methyl tert-butyl ether	13	U	98	13	
110-82-7	Cyclohexane	25	U	98	25	
106-93-4	Ethylene Dibromide	19	U	98	19	
541-73-1	1,3-Dichlorobenzene	32	U	98	32	
106-46-7	1,4-Dichlorobenzene	32	U	98	32	
95-50-1	1,2-Dichlorobenzene	22	U	98	22	
75-71-8	Dichlorodifluoromethane	14	U	98	14	
120-82-1	1,2,4-Trichlorobenzene	26	U	98	26	
123-91-1	1,4-Dioxane	850	U	2400	850	
87-61-6	1,2,3-Trichlorobenzene	34	U	98	34	
96-12-8	1,2-Dibromo-3-Chloropropane	23	U	98	23	
74-97-5	Chlorobromomethane	29	U	98	29	
98-82-8	Isopropylbenzene	31	U	98	31	
79-20-9	Methyl acetate	57	UJ	490	57	CCV
108-87-2	Methylcyclohexane	22	U	98	22	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		75-135
2037-26-5	Toluene-d8 (Surr)	122		59-150
460-00-4	4-Bromofluorobenzene	102		72-133
1868-53-7	Dibromofluoromethane (Surr)	111		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) | Lab Sample ID: 460-92568-5

Matrix: Solid | Lab File ID: C06778.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.86(g) | Date Analyzed: 04/07/2015 14:32

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 12.8 | Level: (low/med) Medium

Analysis Batch No.: 290707 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 128100

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	Benzene, 1,2,4-trimethyl-	10.16	4000	J N
22250-74-4	Bicyclo[4.2.0]octa-1,3,5-triene, 3-methy	10.22	6800	J N
100-80-1	Benzene, 1-ethenyl-3-methyl-	10.26	2700	J N
95-13-6	Indene	10.78	22000	J N
2234-20-0	2,4-Dimethylstyrene	11.05	2000	J N
2177-47-1	2-Methylindene	11.64	5500	J N
767-59-9	1H-Indene, 1-methyl-	11.74	5500	J N
91-20-3	Naphthalene	12.16	62000	~~J N~~
91-57-6	Naphthalene, 2-methyl-	13.35	12000	J N
90-12-0	Naphthalene, 1-methyl-	13.59	5600	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: K38582.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.40(g) | Date Analyzed: 04/05/2015 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.5 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.47	U	1.2	0.47	
79-34-5	1,1,2,2-Tetrachloroethane	0.21	UJ	1.2	0.21	ccv
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	U	1.2	0.54	
79-00-5	1,1,2-Trichloroethane	0.34	U	1.2	0.34	
75-34-3	1,1-Dichloroethane	0.42	U	1.2	0.42	
75-35-4	1,1-Dichloroethene	0.50	U	1.2	0.50	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.2	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.39	U	1.2	0.39	
78-87-5	1,2-Dichloropropane	0.21	U	1.2	0.21	
541-73-1	1,3-Dichlorobenzene	0.15	U	1.2	0.15	
106-46-7	1,4-Dichlorobenzene	0.16	U	1.2	0.16	
123-91-1	1,4-Dioxane	7.8	U	25	7.8	
78-93-3	2-Butanone (MEK)	0.94	U	6.1	0.94	
591-78-6	2-Hexanone	1.2	U	6.1	1.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	6.1	2.7	
67-64-1	Acetone	12	B U	6.1	1.3	mg.
71-43-2	Benzene	340		1.2	0.25	
75-25-2	Bromoform	0.16	U	1.2	0.16	
74-83-9	Bromomethane	0.39	U	1.2	0.39	
75-15-0	Carbon disulfide	0.53	U	1.2	0.53	
56-23-5	Carbon tetrachloride	0.53	U	1.2	0.53	
108-90-7	Chlorobenzene	0.17	U	1.2	0.17	
74-97-5	Chlorobromomethane	0.21	U	1.2	0.21	
124-48-1	Chlorodibromomethane	0.18	U	1.2	0.18	
75-00-3	Chloroethane	0.43	U	1.2	0.43	
67-66-3	Chloroform	0.26	U	1.2	0.26	
74-87-3	Chloromethane	0.47	UJ	1.2	0.47	ccv
156-59-2	cis-1,2-Dichloroethene	4.3		1.2	0.27	
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.2	0.18	
110-82-7	Cyclohexane	0.56	U	1.2	0.56	
75-27-4	Dichlorobromomethane	0.47	U	1.2	0.47	
75-71-8	Dichlorodifluoromethane	0.39	U	1.2	0.39	
100-41-4	Ethylbenzene	9.8		1.2	0.22	
106-93-4	Ethylene Dibromide	0.15	U	1.2	0.15	
98-82-8	Isopropylbenzene	0.21	U	1.2	0.21	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: K38582.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.40(g) | Date Analyzed: 04/05/2015 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.5 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	1.1	UJ	6.1	1.1	ccv
1634-04-4	Methyl tert-butyl ether	0.21	U	1.2	0.21	
108-87-2	Methylcyclohexane	0.61	U	1.2	0.61	
75-09-2	Methylene Chloride	0.39	U	1.2	0.39	
179601-23-1	m-Xylene & p-Xylene	50		1.2	0.13	
95-47-6	o-Xylene	31		1.2	0.20	
100-42-5	Styrene	71		1.2	0.18	
127-18-4	Tetrachloroethene	0.34	U	1.2	0.34	
108-88-3	Toluene	160		1.2	0.23	
156-60-5	trans-1,2-Dichloroethene	0.48	U	1.2	0.48	
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12	
79-01-6	Trichloroethene	1.6		1.2	0.32	
75-69-4	Trichlorofluoromethane	0.42	U	1.2	0.42	
75-01-4	Vinyl chloride	0.48	UJ	1.2	0.48	ccv
107-06-2	1,2-Dichloroethane	0.13	U	1.2	0.13	
95-50-1	1,2-Dichlorobenzene	0.17	U	1.2	0.17	
96-12-8	1,2-Dibromo-3-Chloropropane	0.58	U	1.2	0.58	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene	119		70-130
1868-53-7	Dibromofluoromethane (Surr)	120		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: K38582.D

Analysis Method: 8260C | Date Collected: 04/01/2015 14:30

Sample wt/vol: 5.40(g) | Date Analyzed: 04/05/2015 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 24.5 | Level: (low/med) Low

Analysis Batch No.: 290386 | Units: ug/Kg

Number TICs Found: 7 | TIC Result Total: 539.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	Benzene, 1,2,4-trimethyl-	10.81	10	J N
622-97-9	Benzene, 1-ethenyl-4-methyl-	10.86	17	J N
95-13-6	Indene	11.37	190	J N
622-76-4	Benzene, 1-butynyl-	12.09	9.6	J N
2177-47-1	2-Methylindene	12.16	11	J N
91-20-3	Naphthalene	12.48	290	~~J N~~
95-15-8	Benzo[b]thiophene	12.57	12	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) DL | Lab Sample ID: 460-92355-1 DL

Matrix: Solid | Lab File ID: L1202674.D

Analysis Method: 8270D | Date Collected: 03/26/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0235(g) | Date Analyzed: 04/01/2015 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	800	J	3700	320
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	3700	280
108-60-1	2,2'-oxybis[1-chloropropane]	150	U	3700	150
58-90-2	2,3,4,6-Tetrachlorophenol	350	U	3700	350
95-95-4	2,4,5-Trichlorophenol	370	U	3700	370
88-06-2	2,4,6-Trichlorophenol	110	U	1500	110
120-83-2	2,4-Dichlorophenol	88	U	1500	88
105-67-9	2,4-Dimethylphenol	820	U	3700	820
51-28-5	2,4-Dinitrophenol	2800	U	3000	2800
121-14-2	2,4-Dinitrotoluene	150	U	750	150
606-20-2	2,6-Dinitrotoluene	200	U	750	200
91-58-7	2-Chloronaphthalene	84	U	3700	84
95-57-8	2-Chlorophenol	95	U	3700	95
91-57-6	2-Methylnaphthalene	2600	J	3700	82
95-48-7	2-Methylphenol	160	U	3700	160
88-74-4	2-Nitroaniline	120	U	3700	120
88-75-5	2-Nitrophenol	120	U	3700	120
91-94-1	3,3'-Dichlorobenzidine	420	U	1500	420
99-09-2	3-Nitroaniline	110	U	3700	110
534-52-1	4,6-Dinitro-2-methylphenol	990	U	3000	990
101-55-3	4-Bromophenyl phenyl ether	120	U	3700	120
59-50-7	4-Chloro-3-methylphenol	160	U	3700	160
106-47-8	4-Chloroaniline	96	U	3700	96
7005-72-3	4-Chlorophenyl phenyl ether	110	U	3700	110
106-44-5	4-Methylphenol	390	J	3700	100
100-01-6	4-Nitroaniline	140	U	3700	140
100-02-7	4-Nitrophenol	1800	U	7500	1800
83-32-9	Acenaphthene	2800	J	3700	90
208-96-8	Acenaphthylene	7500		3700	96
98-86-2	Acetophenone	81	U	3700	81
120-12-7	Anthracene	13000		3700	350
1912-24-9	Atrazine	170	U	1500	170
100-52-7	Benzaldehyde	280	U	3700	280
56-55-3	Benzo[a]anthracene	29000		370	310

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) DL | Lab Sample ID: 460-92355-1 DL

Matrix: Solid | Lab File ID: L1202674.D

Analysis Method: 8270D | Date Collected: 03/26/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0235(g) | Date Analyzed: 04/01/2015 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	23000		370	110
205-99-2	Benzo[b]fluoranthene	31000		370	150
191-24-2	Benzo[g,h,i]perylene	11000		3700	210
207-08-9	Benzo[k]fluoranthene	11000		370	160
111-91-1	Bis(2-chloroethoxy)methane	120	U	3700	120
111-44-4	Bis(2-chloroethyl)ether	88	U	370	88
117-81-7	Bis(2-ethylhexyl) phthalate	150	U	3700	150
85-68-7	Butyl benzyl phthalate	110	U	3700	110
105-60-2	Caprolactam	270	U	3700	270
86-74-8	Carbazole	3300	J	3700	92
218-01-9	Chrysene	26000		3700	100
53-70-3	Dibenz(a,h)anthracene	4100		370	190
132-64-9	Dibenzofuran	4000		3700	110
84-66-2	Diethyl phthalate	110	U	3700	110
131-11-3	Dimethyl phthalate	110	U	3700	110
84-74-2	Di-n-butyl phthalate	110	U	3700	110
117-84-0	Di-n-octyl phthalate	190	U	3700	190
206-44-0	Fluoranthene	62000		3700	110
86-73-7	Fluorene	8100		3700	81
118-74-1	Hexachlorobenzene	150	U	370	150
87-68-3	Hexachlorobutadiene	100	U	750	100
77-47-4	Hexachlorocyclopentadiene	230	U	3700	230
67-72-1	Hexachloroethane	140	U	370	140
193-39-5	Indeno[1,2,3-cd]pyrene	14000		370	250
78-59-1	Isophorone	80	U	1500	80
91-20-3	Naphthalene	7900		3700	95
98-95-3	Nitrobenzene	120	U	370	120
621-64-7	N-Nitrosodi-n-propylamine	120	U	370	120
86-30-6	N-Nitrosodiphenylamine	340	U	3700	340
87-86-5	Pentachlorophenol	450	U	3000	450
85-01-8	Phenanthrene	46000		3700	99
108-95-2	Phenol	340	J	3700	120
129-00-0	Pyrene	50000		3700	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) DL | Lab Sample ID: 460-92355-1 DL

Matrix: Solid | Lab File ID: L1202674.D

Analysis Method: 8270D | Date Collected: 03/26/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0235(g) | Date Analyzed: 04/01/2015 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	41		10-120
321-60-8	2-Fluorobiphenyl	56		40-109
367-12-4	2-Fluorophenol (Surr)	44		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	47		38-105
4165-62-2	Phenol-d5 (Surr)	45		41-118
1718-51-0	Terphenyl-d14 (Surr)	51		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) DL | Lab Sample ID: 460-92355-1 DL

Matrix: Solid | Lab File ID: L1202674.D

Analysis Method: 8270D | Date Collected: 03/26/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0235(g) | Date Analyzed: 04/01/2015 16:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

Number TICs Found: 12 | TIC Result Total: 88000

CAS NO.	COMPOUND NAME	RT	RESULT	Q
2531-84-2	Phenanthrene, 2-methyl-	9.53	6600	J N
203-64-5	4H-Cyclopenta[def]phenanthrene	9.61	11000	J N
243-17-4	11H-Benzo[b]fluorene	10.79	5500	J N
243-17-4	11H-Benzo[b]fluorene	10.86	4000	J N
2541-69-7	Benz[a]anthracene, 7-methyl-	12.36	3300	J N
192-97-2	Benzo[e]pyrene	13.42	7400	J N
192-97-2	Benzo[e]pyrene	13.66	17000	J N
198-55-0	Perylene	13.85	8500	J N
191-26-4	Dibenzo[def,mno]chrysene	15.15	7300	J N
213-46-7	1,2:7,8-Dibenzophenanthrene	15.46	5400	J N
191-26-4	Dibenzo[def,mno]chrysene	15.87	6100	J N
192-65-4	1,2:4,5-Dibenzopyrene	17.49	5900	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) DL | Lab Sample ID: 460-92355-2 DL

Matrix: Solid | Lab File ID: L1202675.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0382(g) | Date Analyzed: 04/01/2015 16:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	41000		20000	1700
95-94-3	1,2,4,5-Tetrachlorobenzene	1500	U	20000	1500
108-60-1	2,2'-oxybis[1-chloropropane]	820	U	20000	820
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U	20000	1900
95-95-4	2,4,5-Trichlorophenol	2000	U	20000	2000
88-06-2	2,4,6-Trichlorophenol	570	U	8000	570
120-83-2	2,4-Dichlorophenol	470	U	8000	470
105-67-9	2,4-Dimethylphenol	4400	U	20000	4400
51-28-5	2,4-Dinitrophenol	15000	U	16000	15000
121-14-2	2,4-Dinitrotoluene	790	U	4000	790
606-20-2	2,6-Dinitrotoluene	1100	U	4000	1100
91-58-7	2-Chloronaphthalene	450	U	20000	450
95-57-8	2-Chlorophenol	510	U	20000	510
91-57-6	2-Methylnaphthalene	370000		20000	440
95-48-7	2-Methylphenol	870	U	20000	870
88-74-4	2-Nitroaniline	660	U	20000	660
88-75-5	2-Nitrophenol	670	U	20000	670
91-94-1	3,3'-Dichlorobenzidine	2200	U	8000	2200
99-09-2	3-Nitroaniline	590	U	20000	590
534-52-1	4,6-Dinitro-2-methylphenol	5300	U	16000	5300
101-55-3	4-Bromophenyl phenyl ether	630	U	20000	630
59-50-7	4-Chloro-3-methylphenol	850	U	20000	850
106-47-8	4-Chloroaniline	510	U	20000	510
7005-72-3	4-Chlorophenyl phenyl ether	600	U	20000	600
106-44-5	4-Methylphenol	540	U	20000	540
100-01-6	4-Nitroaniline	750	U	20000	750
100-02-7	4-Nitrophenol	9600	U	40000	9600
83-32-9	Acenaphthene	19000	J	20000	480
208-96-8	Acenaphthylene	240000		20000	510
98-86-2	Acetophenone	430	U	20000	430
120-12-7	Anthracene	87000		20000	1900
1912-24-9	Atrazine	880	U	8000	880
100-52-7	Benzaldehyde	1500	U	20000	1500
56-55-3	Benzo[a]anthracene	53000		2000	1700

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) DL | Lab Sample ID: 460-92355-2 DL

Matrix: Solid | Lab File ID: L1202675.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0382(g) | Date Analyzed: 04/01/2015 16:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	41000		2000	600
205-99-2	Benzo[b]fluoranthene	32000		2000	780
191-24-2	Benzo[g,h,i]perylene	14000	J	20000	1100
207-08-9	Benzo[k]fluoranthene	12000		2000	870
111-91-1	Bis(2-chloroethoxy)methane	620	U	20000	620
111-44-4	Bis(2-chloroethyl)ether	470	U	2000	470
117-81-7	Bis(2-ethylhexyl) phthalate	780	U	20000	780
85-68-7	Butyl benzyl phthalate	610	U	20000	610
105-60-2	Caprolactam	1400	U	20000	1400
86-74-8	Carbazole	3300	J	20000	490
218-01-9	Chrysene	49000		20000	540
53-70-3	Dibenz(a,h)anthracene	4900		2000	1000
132-64-9	Dibenzofuran	14000	J	20000	600
84-66-2	Diethyl phthalate	570	U	20000	570
131-11-3	Dimethyl phthalate	580	U	20000	580
84-74-2	Di-n-butyl phthalate	600	U	20000	600
117-84-0	Di-n-octyl phthalate	1000	U	20000	1000
206-44-0	Fluoranthene	100000		20000	590
86-73-7	Fluorene	140000		20000	430
118-74-1	Hexachlorobenzene	810	U	2000	810
87-68-3	Hexachlorobutadiene	560	U	4000	560
77-47-4	Hexachlorocyclopentadiene	1200	U	20000	1200
67-72-1	Hexachloroethane	730	U	2000	730
193-39-5	Indeno[1,2,3-cd]pyrene	16000		2000	1300
78-59-1	Isophorone	430	U	8000	430
91-20-3	Naphthalene	470000		20000	510
98-95-3	Nitrobenzene	630	U	2000	630
621-64-7	N-Nitrosodi-n-propylamine	670	U	2000	670
86-30-6	N-Nitrosodiphenylamine	1800	U	20000	1800
87-86-5	Pentachlorophenol	2400	U	16000	2400
85-01-8	Phenanthrene	340000		20000	530
108-95-2	Phenol	650	U	20000	650
129-00-0	Pyrene	150000		20000	900

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) DL | Lab Sample ID: 460-92355-2 DL

Matrix: Solid | Lab File ID: L1202675.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0382(g) | Date Analyzed: 04/01/2015 16:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	0	X	10-120
321-60-8	2-Fluorobiphenyl	0	X	40-109
367-12-4	2-Fluorophenol (Surr)	0	X	37-125
4165-60-0	Nitrobenzene-d5 (Surr)	0	X	38-105
4165-62-2	Phenol-d5 (Surr)	0	X	41-118
1718-51-0	Terphenyl-d14 (Surr)	0	X	16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) DL | Lab Sample ID: 460-92355-2 DL

Matrix: Solid | Lab File ID: L1202675.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0382(g) | Date Analyzed: 04/01/2015 16:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 1.355e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
90-12-0	1-Methylnaphthalene	6.60	240000	
575-43-9	Naphthalene, 1,6-dimethyl-	7.13	92000	J N
575-41-7	1,3-Dimethylnaphthalene	7.20	120000	
575-43-9	Naphthalene, 1,6-dimethyl-	7.23	58000	J N
827-54-3	Naphthalene, 2-ethenyl-	7.26	62000	J N
571-58-4	Naphthalene, 1,4-dimethyl-	7.32	53000	J N
3710-23-4	Naphthalene, 2-(1-methylethenyl)-	7.85	39000	J N
203-80-5	1H-Phenalene	8.05	33000	J N
67240-79-3	3-Trifluoromethylbenzhydryl chloride	8.30	52000	J N
1730-37-6	9H-Fluorene, 1-methyl-	8.62	43000	J N
132-65-0	Dibenzothiophene	8.90	46000	J N
613-12-7	Anthracene, 2-methyl-	9.50	72000	J N
2531-84-2	Phenanthrene, 2-methyl-	9.53	80000	J N
613-12-7	Anthracene, 2-methyl-	9.57	33000	J N
832-69-9	Phenanthrene, 1-methyl-	9.61	110000	J N
1961-97-3	1H-Indene, 3-phenyl-	9.63	49000	J N
35465-71-5	2-Phenylnaphthalene	9.80	43000	J N
483-87-4	Phenanthrene, 1,7-dimethyl-	10.05	43000	J N
27765-96-4	1,4-Ethenoanthracene, 1,4-dihydro-	10.08	35000	J N
886-66-8	Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bi	10.30	52000	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) | Lab Sample ID: 460-92355-3

Matrix: Solid | Lab File ID: L1202669.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:45

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0261(g) | Date Analyzed: 04/01/2015 13:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	34	U	400	34
95-94-3	1,2,4,5-Tetrachlorobenzene	30	U	400	30
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	400	17
58-90-2	2,3,4,6-Tetrachlorophenol	38	U	400	38
95-95-4	2,4,5-Trichlorophenol	40	U	400	40
88-06-2	2,4,6-Trichlorophenol	11	U	160	11
120-83-2	2,4-Dichlorophenol	9.5	U	160	9.5
105-67-9	2,4-Dimethylphenol	89	U	400	89
51-28-5	2,4-Dinitrophenol	310	U	330	310
121-14-2	2,4-Dinitrotoluene	16	U	82	16
606-20-2	2,6-Dinitrotoluene	22	U	82	22
91-58-7	2-Chloronaphthalene	9.2	U	400	9.2
95-57-8	2-Chlorophenol	10	U	400	10
91-57-6	2-Methylnaphthalene	210	J	400	8.9
95-48-7	2-Methylphenol	18	U	400	18
88-74-4	2-Nitroaniline	13	U	400	13
88-75-5	2-Nitrophenol	14	U	400	14
91-94-1	3,3'-Dichlorobenzidine	45	U	160	45
99-09-2	3-Nitroaniline	12	U	400	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	330	110
101-55-3	4-Bromophenyl phenyl ether	13	U	400	13
59-50-7	4-Chloro-3-methylphenol	17	U	400	17
106-47-8	4-Chloroaniline	10	U	400	10
7005-72-3	4-Chlorophenyl phenyl ether	12	U	400	12
106-44-5	4-Methylphenol	11	U	400	11
100-01-6	4-Nitroaniline	15	U	400	15
100-02-7	4-Nitrophenol	190	U	820	190
83-32-9	Acenaphthene	16	J	400	9.8
208-96-8	Acenaphthylene	150	J	400	10
98-86-2	Acetophenone	8.8	U	400	8.8
120-12-7	Anthracene	150	J	400	38
1912-24-9	Atrazine	18	U	160	18
100-52-7	Benzaldehyde	31	U	400	31
56-55-3	Benzo[a]anthracene	140		40	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) | Lab Sample ID: 460-92355-3

Matrix: Solid | Lab File ID: L1202669.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:45

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0261(g) | Date Analyzed: 04/01/2015 13:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	110		40	12
205-99-2	Benzo[b]fluoranthene	100		40	16
191-24-2	Benzo[g,h,i]perylene	28	J	400	23
207-08-9	Benzo[k]fluoranthene	35	J	40	18
111-91-1	Bis(2-chloroethoxy)methane	13	U	400	13
111-44-4	Bis(2-chloroethyl)ether	9.5	U	40	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	16	U	400	16
85-68-7	Butyl benzyl phthalate	12	U	400	12
105-60-2	Caprolactam	29	U	400	29
86-74-8	Carbazole	10	U	400	10
218-01-9	Chrysene	110	J	400	11
53-70-3	Dibenz(a,h)anthracene	21	U	40	21
132-64-9	Dibenzofuran	17	J	400	12
84-66-2	Diethyl phthalate	11	U	400	11
131-11-3	Dimethyl phthalate	12	U	400	12
84-74-2	Di-n-butyl phthalate	12	U	400	12
117-84-0	Di-n-octyl phthalate	21	U	400	21
206-44-0	Fluoranthene	220	J	400	12
86-73-7	Fluorene	160	J	400	8.8
118-74-1	Hexachlorobenzene	16	U	40	16
87-68-3	Hexachlorobutadiene	11	U	82	11
77-47-4	Hexachlorocyclopentadiene	25	U	400	25
67-72-1	Hexachloroethane	15	U	40	15
193-39-5	Indeno[1,2,3-cd]pyrene	30	J	40	27
78-59-1	Isophorone	8.7	U	160	8.7
91-20-3	Naphthalene	360	J	400	10
98-95-3	Nitrobenzene	13	U	40	13
621-64-7	N-Nitrosodi-n-propylamine	14	U	40	14
86-30-6	N-Nitrosodiphenylamine	37	U	400	37
87-86-5	Pentachlorophenol	49	U	330	49
85-01-8	Phenanthrene	600		400	11
108-95-2	Phenol	13	U	400	13
129-00-0	Pyrene	400		400	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) | Lab Sample ID: 460-92355-3

Matrix: Solid | Lab File ID: L1202669.D

Analysis Method: 8270D | Date Collected: 03/26/2015 13:45

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0261(g) | Date Analyzed: 04/01/2015 13:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	56		10-120
321-60-8	2-Fluorobiphenyl	60		40-109
367-12-4	2-Fluorophenol (Surr)	52		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	56		38-105
4165-62-2	Phenol-d5 (Surr)	54		41-118
1718-51-0	Terphenyl-d14 (Surr)	65		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	TestAmerica Edison	Job No.:	460-92355-1
SDG No.:	92355, 92511, 92568		
Client Sample ID:	SB43 (49-50)	Lab Sample ID:	460-92355-3
Matrix:	Solid	Lab File ID:	L1202669.D
Analysis Method:	8270D	Date Collected:	03/26/2015 13:45
Extract. Method:	3546	Date Extracted:	03/31/2015 07:59
Sample wt/vol:	15.0261(g)	Date Analyzed:	04/01/2015 13:53
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1(uL)	Level: (low/med)	Low
% Moisture:	18.3	GPC Cleanup:(Y/N)	N
Analysis Batch No.:	289538	Units:	ug/Kg
Number TICs Found:	0	TIC Result Total:	0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 DL | Lab Sample ID: 460-92355-4 DL

Matrix: Solid | Lab File ID: L1202676.D

Analysis Method: 8270D | Date Collected: 03/26/2015 00:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0482(g) | Date Analyzed: 04/01/2015 16:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	46000		20000	1700
95-94-3	1,2,4,5-Tetrachlorobenzene	1500	U	20000	1500
108-60-1	2,2'-oxybis[1-chloropropane]	820	U	20000	820
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U	20000	1900
95-95-4	2,4,5-Trichlorophenol	2000	U	20000	2000
88-06-2	2,4,6-Trichlorophenol	570	U	8000	570
120-83-2	2,4-Dichlorophenol	470	U	8000	470
105-67-9	2,4-Dimethylphenol	4400	U	20000	4400
51-28-5	2,4-Dinitrophenol	15000	U	16000	15000
121-14-2	2,4-Dinitrotoluene	790	U	4000	790
606-20-2	2,6-Dinitrotoluene	1100	U	4000	1100
91-58-7	2-Chloronaphthalene	450	U	20000	450
95-57-8	2-Chlorophenol	510	U	20000	510
91-57-6	2-Methylnaphthalene	400000		20000	440
95-48-7	2-Methylphenol	870	U	20000	870
88-74-4	2-Nitroaniline	660	U	20000	660
88-75-5	2-Nitrophenol	670	U	20000	670
91-94-1	3,3'-Dichlorobenzidine	2200	U	8000	2200
99-09-2	3-Nitroaniline	590	U	20000	590
534-52-1	4,6-Dinitro-2-methylphenol	5300	U	16000	5300
101-55-3	4-Bromophenyl phenyl ether	630	U	20000	630
59-50-7	4-Chloro-3-methylphenol	850	U	20000	850
106-47-8	4-Chloroaniline	510	U	20000	510
7005-72-3	4-Chlorophenyl phenyl ether	600	U	20000	600
106-44-5	4-Methylphenol	540	U	20000	540
100-01-6	4-Nitroaniline	750	U	20000	750
100-02-7	4-Nitrophenol	9600	U	40000	9600
83-32-9	Acenaphthene	22000		20000	480
208-96-8	Acenaphthylene	270000		20000	510
98-86-2	Acetophenone	430	U	20000	430
120-12-7	Anthracene	97000		20000	1900
1912-24-9	Atrazine	880	U	8000	880
100-52-7	Benzaldehyde	1500	U	20000	1500
56-55-3	Benzo[a]anthracene	58000		2000	1700

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 DL | Lab Sample ID: 460-92355-4 DL

Matrix: Solid | Lab File ID: L1202676.D

Analysis Method: 8270D | Date Collected: 03/26/2015 00:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0482(g) | Date Analyzed: 04/01/2015 16:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	44000		2000	600
205-99-2	Benzo[b]fluoranthene	36000		2000	780
191-24-2	Benzo[g,h,i]perylene	16000	J	20000	1100
207-08-9	Benzo[k]fluoranthene	12000		2000	870
111-91-1	Bis(2-chloroethoxy)methane	620	U	20000	620
111-44-4	Bis(2-chloroethyl)ether	470	U	2000	470
117-81-7	Bis(2-ethylhexyl) phthalate	780	U	20000	780
85-68-7	Butyl benzyl phthalate	610	U	20000	610
105-60-2	Caprolactam	1400	U	20000	1400
86-74-8	Carbazole	3300	J	20000	490
218-01-9	Chrysene	56000		20000	540
53-70-3	Dibenz(a,h)anthracene	5400		2000	1000
132-64-9	Dibenzofuran	17000	J	20000	600
84-66-2	Diethyl phthalate	570	U	20000	570
131-11-3	Dimethyl phthalate	580	U	20000	580
84-74-2	Di-n-butyl phthalate	600	U	20000	600
117-84-0	Di-n-octyl phthalate	1000	U	20000	1000
206-44-0	Fluoranthene	110000		20000	590
86-73-7	Fluorene	160000		20000	430
118-74-1	Hexachlorobenzene	810	U	2000	810
87-68-3	Hexachlorobutadiene	560	U	4000	560
77-47-4	Hexachlorocyclopentadiene	1200	U	20000	1200
67-72-1	Hexachloroethane	730	U	2000	730
193-39-5	Indeno[1,2,3-cd]pyrene	17000		2000	1300
78-59-1	Isophorone	430	U	8000	430
91-20-3	Naphthalene	420000		20000	510
98-95-3	Nitrobenzene	630	U	2000	630
621-64-7	N-Nitrosodi-n-propylamine	670	U	2000	670
86-30-6	N-Nitrosodiphenylamine	1800	U	20000	1800
87-86-5	Pentachlorophenol	2400	U	16000	2400
85-01-8	Phenanthrene	380000		20000	530
108-95-2	Phenol	650	U	20000	650
129-00-0	Pyrene	160000		20000	900

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 DL | Lab Sample ID: 460-92355-4 DL

Matrix: Solid | Lab File ID: L1202676.D

Analysis Method: 8270D | Date Collected: 03/26/2015 00:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0482(g) | Date Analyzed: 04/01/2015 16:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	0	X	10-120
321-60-8	2-Fluorobiphenyl	0	X	40-109
367-12-4	2-Fluorophenol (Surr)	0	X	37-125
4165-60-0	Nitrobenzene-d5 (Surr)	0	X	38-105
4165-62-2	Phenol-d5 (Surr)	0	X	41-118
1718-51-0	Terphenyl-d14 (Surr)	0	X	16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 DL | Lab Sample ID: 460-92355-4 DL

Matrix: Solid | Lab File ID: L1202676.D

Analysis Method: 8270D | Date Collected: 03/26/2015 00:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0482(g) | Date Analyzed: 04/01/2015 16:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 1.443e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
90-12-0	Naphthalene, 1-methyl-	6.60	270000	J N
582-16-1	Naphthalene, 2,7-dimethyl-	7.13	100000	J N
575-43-9	Naphthalene, 1,6-dimethyl-	7.20	110000	J N
582-16-1	Naphthalene, 2,7-dimethyl-	7.23	57000	J N
827-54-3	Naphthalene, 2-ethenyl-	7.26	67000	J N
581-40-8	Naphthalene, 2,3-dimethyl-	7.32	58000	J N
3710-23-4	Naphthalene, 2-(1-methylethenyl)-	7.85	42000	J N
34883-14-2	Benzaldehyde, 2,4-dihydroxy-3,6-dimethyl	7.99	36000	J N
203-80-5	1H-Phenalene	8.05	43000	J N
34883-14-2	Benzaldehyde, 2,4-dihydroxy-3,6-dimethyl	8.30	56000	J N
1430-97-3	9H-Fluorene, 2-methyl-	8.62	41000	J N
268-77-9	Naphtho[2,3-b]thiophene	8.90	50000	J N
610-48-0	Anthracene, 1-methyl-	9.50	76000	J N
832-69-9	Phenanthrene, 1-methyl-	9.53	85000	J N
203-64-5	4H-Cyclopenta[def]phenanthrene	9.61	120000	J N
613-12-7	Anthracene, 2-methyl-	9.63	50000	J N
35465-71-5	2-Phenylnaphthalene	9.80	39000	J N
781-43-1	9,10-Dimethylanthracene	10.05	50000	J N
6543-29-9	Indeno[2,1-a]indene, 5,10-dihydro-	10.08	38000	J N
886-66-8	Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bi	10.30	55000	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) | Lab Sample ID: 460-92355-5

Matrix: Solid | Lab File ID: L1202677.D

Analysis Method: 8270D | Date Collected: 03/27/2015 11:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 17:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	62	J	360	31
95-94-3	1,2,4,5-Tetrachlorobenzene	27	U	360	27
108-60-1	2,2'-oxybis[1-chloropropane]	15	U	360	15
58-90-2	2,3,4,6-Tetrachlorophenol	34	U	360	34
95-95-4	2,4,5-Trichlorophenol	36	U	360	36
88-06-2	2,4,6-Trichlorophenol	10	U	150	10
120-83-2	2,4-Dichlorophenol	8.6	U	150	8.6
105-67-9	2,4-Dimethylphenol	110	J	360	80
51-28-5	2,4-Dinitrophenol	280	U	290	280
121-14-2	2,4-Dinitrotoluene	14	U	74	14
606-20-2	2,6-Dinitrotoluene	19	U	74	19
91-58-7	2-Chloronaphthalene	8.3	U	360	8.3
95-57-8	2-Chlorophenol	9.3	U	360	9.3
91-57-6	2-Methylnaphthalene	970		360	8.1
95-48-7	2-Methylphenol	16	U	360	16
88-74-4	2-Nitroaniline	12	U	360	12
88-75-5	2-Nitrophenol	12	U	360	12
91-94-1	3,3'-Dichlorobenzidine	41	U	150	41
99-09-2	3-Nitroaniline	11	U	360	11
534-52-1	4,6-Dinitro-2-methylphenol	97	U	290	97
101-55-3	4-Bromophenyl phenyl ether	11	U	360	11
59-50-7	4-Chloro-3-methylphenol	16	U	360	16
106-47-8	4-Chloroaniline	9.4	U	360	9.4
7005-72-3	4-Chlorophenyl phenyl ether	11	U	360	11
106-44-5	4-Methylphenol	9.9	U	360	9.9
100-01-6	4-Nitroaniline	14	U	360	14
100-02-7	4-Nitrophenol	180	U	740	180
83-32-9	Acenaphthene	63	J	360	8.8
208-96-8	Acenaphthylene	55	J	360	9.4
98-86-2	Acetophenone	7.9	U	360	7.9
120-12-7	Anthracene	120	J	360	35
1912-24-9	Atrazine	16	U	150	16
100-52-7	Benzaldehyde	28	U	360	28
56-55-3	Benzo[a]anthracene	220		36	30

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) | Lab Sample ID: 460-92355-5

Matrix: Solid | Lab File ID: L1202677.D

Analysis Method: 8270D | Date Collected: 03/27/2015 11:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 17:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	170		36	11
205-99-2	Benzo[b]fluoranthene	250		36	14
191-24-2	Benzo[g,h,i]perylene	120	J	360	21
207-08-9	Benzo[k]fluoranthene	72		36	16
111-91-1	Bis(2-chloroethoxy)methane	11	U	360	11
111-44-4	Bis(2-chloroethyl)ether	8.6	U	36	8.6
117-81-7	Bis(2-ethylhexyl) phthalate	14	U	360	14
85-68-7	Butyl benzyl phthalate	11	U	360	11
105-60-2	Caprolactam	26	U	360	26
86-74-8	Carbazole	45	J	360	9.0
218-01-9	Chrysene	220	J	360	9.9
53-70-3	Dibenz(a,h)anthracene	32	J	36	19
132-64-9	Dibenzofuran	160	J	360	11
84-66-2	Diethyl phthalate	10	U	360	10
131-11-3	Dimethyl phthalate	11	U	360	11
84-74-2	Di-n-butyl phthalate	11	U	360	11
117-84-0	Di-n-octyl phthalate	19	U	360	19
206-44-0	Fluoranthene	450		360	11
86-73-7	Fluorene	140	J	360	7.9
118-74-1	Hexachlorobenzene	15	U	36	15
87-68-3	Hexachlorobutadiene	10	U	74	10
77-47-4	Hexachlorocyclopentadiene	23	U	360	23
67-72-1	Hexachloroethane	13	U	36	13
193-39-5	Indeno[1,2,3-cd]pyrene	110		36	24
78-59-1	Isophorone	7.8	U	150	7.8
91-20-3	Naphthalene	1500		360	9.3
98-95-3	Nitrobenzene	11	U	36	11
621-64-7	N-Nitrosodi-n-propylamine	12	U	36	12
86-30-6	N-Nitrosodiphenylamine	33	U	360	33
87-86-5	Pentachlorophenol	44	U	290	44
85-01-8	Phenanthrene	630		360	9.7
108-95-2	Phenol	12	U	360	12
129-00-0	Pyrene	500		360	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Edison	Job No.:	460-92355-1
SDG No.:	92355, 92511, 92568		
Client Sample ID:	SB44 (9-10)	Lab Sample ID:	460-92355-5
Matrix:	Solid	Lab File ID:	L1202677.D
Analysis Method:	8270D	Date Collected:	03/27/2015 11:00
Extract. Method:	3546	Date Extracted:	03/31/2015 07:59
Sample wt/vol:	15.0231(g)	Date Analyzed:	04/01/2015 17:20
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1(uL)	Level: (low/med)	Low
% Moisture:	9.5	GPC Cleanup:(Y/N)	N
Analysis Batch No.:	289538	Units:	ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	48		10-120
321-60-8	2-Fluorobiphenyl	71		40-109
367-12-4	2-Fluorophenol (Surr)	57		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	65		38-105
4165-62-2	Phenol-d5 (Surr)	59		41-118
1718-51-0	Terphenyl-d14 (Surr)	72		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) Lab Sample ID: 460-92355-5

Matrix: Solid Lab File ID: L1202677.D

Analysis Method: 8270D Date Collected: 03/27/2015 11:00

Extract. Method: 3546 Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0231(g) Date Analyzed: 04/01/2015 17:20

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 9.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289538 Units: ug/Kg

Number TICs Found: 11 TIC Result Total: 5210

CAS NO.	COMPOUND NAME	RT	RESULT	Q
108-67-8	Benzene, 1,3,5-trimethyl-	4.32	480	J N
90-12-0	Naphthalene, 1-methyl-	6.60	660	J N
582-16-1	Naphthalene, 2,7-dimethyl-	7.13	340	J N
571-61-9	Naphthalene, 1,5-dimethyl-	7.20	380	J N
581-40-8	Naphthalene, 2,3-dimethyl-	7.32	450	J N
2245-38-7	Naphthalene, 1,6,7-trimethyl-	7.94	320	J N
54105-67-8	Heptadecane, 2,6-dimethyl-	8.46	1000	J N
17085-91-5	Naphthalene, 1-(1,1-dimethylethyl)-	8.75	520	J N
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b-dihyd	9.61	320	J N
54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	10.10	360	J N
243-17-4	11H-Benzo[b]fluorene	10.86	380	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: L1202641.D

Analysis Method: 8270D | Date Collected: 03/27/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0374(g) | Date Analyzed: 03/31/2015 23:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	35	J	400	34
95-94-3	1,2,4,5-Tetrachlorobenzene	30	U	400	30
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	400	17
58-90-2	2,3,4,6-Tetrachlorophenol	38	U	400	38
95-95-4	2,4,5-Trichlorophenol	40	U	400	40
88-06-2	2,4,6-Trichlorophenol	11	U	160	11
120-83-2	2,4-Dichlorophenol	9.5	U	160	9.5
105-67-9	2,4-Dimethylphenol	89	U	400	89
51-28-5	2,4-Dinitrophenol	310	U	320	310
121-14-2	2,4-Dinitrotoluene	16	U	82	16
606-20-2	2,6-Dinitrotoluene	21	U	82	21
91-58-7	2-Chloronaphthalene	9.2	U	400	9.2
95-57-8	2-Chlorophenol	10	U	400	10
91-57-6	2-Methylnaphthalene	340	J	400	8.9
95-48-7	2-Methylphenol	18	U	400	18
88-74-4	2-Nitroaniline	13	U	400	13
88-75-5	2-Nitrophenol	14	U	400	14
91-94-1	3,3'-Dichlorobenzidine	45	U	160	45
99-09-2	3-Nitroaniline	12	U	400	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	320	110
101-55-3	4-Bromophenyl phenyl ether	13	U	400	13
59-50-7	4-Chloro-3-methylphenol	17	U	400	17
106-47-8	4-Chloroaniline	10	U	400	10
7005-72-3	4-Chlorophenyl phenyl ether	12	U	400	12
106-44-5	4-Methylphenol	11	U	400	11
100-01-6	4-Nitroaniline	15	U	400	15
100-02-7	4-Nitrophenol	190	U	820	190
83-32-9	Acenaphthene	120	J	400	9.8
208-96-8	Acenaphthylene	31	J	400	10
98-86-2	Acetophenone	8.8	U	400	8.8
120-12-7	Anthracene	38	U	400	38
1912-24-9	Atrazine	18	U	160	18
100-52-7	Benzaldehyde	31	U	400	31
56-55-3	Benzo[a]anthracene	34	U	40	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: L1202641.D

Analysis Method: 8270D | Date Collected: 03/27/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0374(g) | Date Analyzed: 03/31/2015 23:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	12	U	40	12
205-99-2	Benzo[b]fluoranthene	16	U	40	16
191-24-2	Benzo[g,h,i]perylene	23	U	400	23
207-08-9	Benzo[k]fluoranthene	18	U	40	18
111-91-1	Bis(2-chloroethoxy)methane	13	U	400	13
111-44-4	Bis(2-chloroethyl)ether	9.5	U	40	9.5
117-81-7	Bis(2-ethylhexyl) phthalate	26	J	400	16
85-68-7	Butyl benzyl phthalate	12	U	400	12
105-60-2	Caprolactam	29	U	400	29
86-74-8	Carbazole	42	J	400	10
218-01-9	Chrysene	11	U	400	11
53-70-3	Dibenz(a,h)anthracene	21	U	40	21
132-64-9	Dibenzofuran	55	J	400	12
84-66-2	Diethyl phthalate	11	U	400	11
131-11-3	Dimethyl phthalate	12	U	400	12
84-74-2	Di-n-butyl phthalate	12	U	400	12
117-84-0	Di-n-octyl phthalate	20	U	400	20
206-44-0	Fluoranthene	12	U	400	12
86-73-7	Fluorene	63	J	400	8.8
118-74-1	Hexachlorobenzene	16	U	40	16
87-68-3	Hexachlorobutadiene	11	U	82	11
77-47-4	Hexachlorocyclopentadiene	25	U	400	25
67-72-1	Hexachloroethane	15	U	40	15
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	40	27
78-59-1	Isophorone	8.7	U	160	8.7
91-20-3	Naphthalene	1000		400	10
98-95-3	Nitrobenzene	13	U	40	13
621-64-7	N-Nitrosodi-n-propylamine	14	U	40	14
86-30-6	N-Nitrosodiphenylamine	37	U	400	37
87-86-5	Pentachlorophenol	49	U	320	49
85-01-8	Phenanthrene	31	J	400	11
108-95-2	Phenol	13	U	400	13
129-00-0	Pyrene	28	J	400	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: L1202641.D

Analysis Method: 8270D | Date Collected: 03/27/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0374(g) | Date Analyzed: 03/31/2015 23:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	59		10-120
321-60-8	2-Fluorobiphenyl	68		40-109
367-12-4	2-Fluorophenol (Surr)	59		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	62		38-105
4165-62-2	Phenol-d5 (Surr)	58		41-118
1718-51-0	Terphenyl-d14 (Surr)	70		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: L1202641.D

Analysis Method: 8270D | Date Collected: 03/27/2015 12:30

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0374(g) | Date Analyzed: 03/31/2015 23:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: L1202642.D

Analysis Method: 8270D | Date Collected: 03/27/2015 13:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0348(g) | Date Analyzed: 04/01/2015 00:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	37	U	430	37
95-94-3	1,2,4,5-Tetrachlorobenzene	32	U	430	32
108-60-1	2,2'-oxybis[1-chloropropane]	18	U	430	18
58-90-2	2,3,4,6-Tetrachlorophenol	41	U	430	41
95-95-4	2,4,5-Trichlorophenol	43	U	430	43
88-06-2	2,4,6-Trichlorophenol	12	U	170	12
120-83-2	2,4-Dichlorophenol	10	U	170	10
105-67-9	2,4-Dimethylphenol	96	U	430	96
51-28-5	2,4-Dinitrophenol	330	U	350	330
121-14-2	2,4-Dinitrotoluene	17	U	88	17
606-20-2	2,6-Dinitrotoluene	23	U	88	23
91-58-7	2-Chloronaphthalene	9.9	U	430	9.9
95-57-8	2-Chlorophenol	11	U	430	11
91-57-6	2-Methylnaphthalene	400	J	430	9.6
95-48-7	2-Methylphenol	19	U	430	19
88-74-4	2-Nitroaniline	14	U	430	14
88-75-5	2-Nitrophenol	15	U	430	15
91-94-1	3,3'-Dichlorobenzidine	49	U	170	49
99-09-2	3-Nitroaniline	13	U	430	13
534-52-1	4,6-Dinitro-2-methylphenol	120	U	350	120
101-55-3	4-Bromophenyl phenyl ether	14	U	430	14
59-50-7	4-Chloro-3-methylphenol	19	U	430	19
106-47-8	4-Chloroaniline	11	U	430	11
7005-72-3	4-Chlorophenyl phenyl ether	13	U	430	13
106-44-5	4-Methylphenol	12	U	430	12
100-01-6	4-Nitroaniline	16	U	430	16
100-02-7	4-Nitrophenol	210	U	880	210
83-32-9	Acenaphthene	11	U	430	11
208-96-8	Acenaphthylene	66	J	430	11
98-86-2	Acetophenone	9.5	U	430	9.5
120-12-7	Anthracene	41	U	430	41
1912-24-9	Atrazine	19	U	170	19
100-52-7	Benzaldehyde	33	U	430	33
56-55-3	Benzo[a]anthracene	36	U	43	36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: L1202642.D

Analysis Method: 8270D | Date Collected: 03/27/2015 13:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0348(g) | Date Analyzed: 04/01/2015 00:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	13	U	43	13
205-99-2	Benzo[b]fluoranthene	17	U	43	17
191-24-2	Benzo[g,h,i]perylene	25	U	430	25
207-08-9	Benzo[k]fluoranthene	19	U	43	19
111-91-1	Bis(2-chloroethoxy)methane	14	U	430	14
111-44-4	Bis(2-chloroethyl)ether	10	U	43	10
117-81-7	Bis(2-ethylhexyl) phthalate	82	J	430	17
85-68-7	Butyl benzyl phthalate	13	U	430	13
105-60-2	Caprolactam	31	U	430	31
86-74-8	Carbazole	11	U	430	11
218-01-9	Chrysene	12	U	430	12
53-70-3	Dibenz(a,h)anthracene	23	U	43	23
132-64-9	Dibenzofuran	13	U	430	13
84-66-2	Diethyl phthalate	12	U	430	12
131-11-3	Dimethyl phthalate	13	U	430	13
84-74-2	Di-n-butyl phthalate	13	U	430	13
117-84-0	Di-n-octyl phthalate	22	U	430	22
206-44-0	Fluoranthene	13	U	430	13
86-73-7	Fluorene	25	J	430	9.5
118-74-1	Hexachlorobenzene	18	U	43	18
87-68-3	Hexachlorobutadiene	12	U	88	12
77-47-4	Hexachlorocyclopentadiene	27	U	430	27
67-72-1	Hexachloroethane	16	U	43	16
193-39-5	Indeno[1,2,3-cd]pyrene	29	U	43	29
78-59-1	Isophorone	9.3	U	170	9.3
91-20-3	Naphthalene	920		430	11
98-95-3	Nitrobenzene	14	U	43	14
621-64-7	N-Nitrosodi-n-propylamine	15	U	43	15
86-30-6	N-Nitrosodiphenylamine	39	U	430	39
87-86-5	Pentachlorophenol	53	U	350	53
85-01-8	Phenanthrene	20	J	430	12
108-95-2	Phenol	14	U	430	14
129-00-0	Pyrene	20	U	430	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: L1202642.D

Analysis Method: 8270D | Date Collected: 03/27/2015 13:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0348(g) | Date Analyzed: 04/01/2015 00:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	59		10-120
321-60-8	2-Fluorobiphenyl	63		40-109
367-12-4	2-Fluorophenol (Surr)	55		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	58		38-105
4165-62-2	Phenol-d5 (Surr)	55		41-118
1718-51-0	Terphenyl-d14 (Surr)	66		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: L1202642.D

Analysis Method: 8270D | Date Collected: 03/27/2015 13:00

Extract. Method: 3546 | Date Extracted: 03/31/2015 07:59

Sample wt/vol: 15.0348(g) | Date Analyzed: 04/01/2015 00:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289410 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: z9848.D

Analysis Method: 8270D | Date Collected: 03/30/2015 11:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0128(g) | Date Analyzed: 04/01/2015 22:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	1,1'-Biphenyl	32	U	370	32	
95-94-3	1,2,4,5-Tetrachlorobenzene	28	UJP1	370	28	ms
108-60-1	2,2'-oxybis[1-chloropropane]	15	UJP1	370	15	
58-90-2	2,3,4,6-Tetrachlorophenol	35	UJP1	370	35	
95-95-4	2,4,5-Trichlorophenol	37	UJP1	370	37	
88-06-2	2,4,6-Trichlorophenol	11	UJP1	150	11	
120-83-2	2,4-Dichlorophenol	8.8	UJP1	150	8.8	
105-67-9	2,4-Dimethylphenol	82	UJP1	370	82	
~~51-28-5~~	~~2,4-Dinitrophenol~~	~~280~~	~~U P1~~ R	~~300~~	~~280~~	MS<10%
121-14-2	2,4-Dinitrotoluene	15	U	75	15	
606-20-2	2,6-Dinitrotoluene	20	U	75	20	
91-58-7	2-Chloronaphthalene	8.4	U	370	8.4	
95-57-8	2-Chlorophenol	9.5	UJP1	370	9.5	ms
91-57-6	2-Methylnaphthalene	8.2	UJP1	370	8.2	ms
95-48-7	2-Methylphenol	16	UJP1	370	16	ms
88-74-4	2-Nitroaniline	12	UJP1	370	12	CCV, ms
88-75-5	2-Nitrophenol	12	UJP1	370	12	ms
91-94-1	3,3'-Dichlorobenzidine	42	U	150	42	
99-09-2	3-Nitroaniline	11	U	370	11	
534-52-1	4,6-Dinitro-2-methylphenol	99	U	300	99	
101-55-3	4-Bromophenyl phenyl ether	12	U	370	12	
59-50-7	4-Chloro-3-methylphenol	16	UJP1	370	16	ms
106-47-8	4-Chloroaniline	9.6	U	370	9.6	
7005-72-3	4-Chlorophenyl phenyl ether	11	U	370	11	
106-44-5	4-Methylphenol	10	UJP1	370	10	ms
100-01-6	4-Nitroaniline	14	UJP1	370	14	
100-02-7	4-Nitrophenol	180	UJP1	750	180	
83-32-9	Acenaphthene	9.0	U	370	9.0	
208-96-8	Acenaphthylene	9.6	U	370	9.6	
98-86-2	Acetophenone	8.1	U	370	8.1	
120-12-7	Anthracene	35	U	370	35	
1912-24-9	Atrazine	17	U	150	17	
100-52-7	Benzaldehyde	28	U	370	28	
56-55-3	Benzo[a]anthracene	31	U	37	31	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: z9848.D

Analysis Method: 8270D | Date Collected: 03/30/2015 11:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0128(g) | Date Analyzed: 04/01/2015 22:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	11	U	37	11	
205-99-2	Benzo[b]fluoranthene	15	U	37	15	
191-24-2	Benzo[g,h,i]perylene	21	U	370	21	
207-08-9	Benzo[k]fluoranthene	16	U	37	16	
111-91-1	Bis(2-chloroethoxy)methane	12	U J F1	370	12	MS
111-44-4	Bis(2-chloroethyl)ether	8.8	U J F1	37	8.8	MS
117-81-7	Bis(2-ethylhexyl) phthalate	15	U	370	15	
85-68-7	Butyl benzyl phthalate	11	U	370	11	
105-60-2	Caprolactam	27	U	370	27	
86-74-8	Carbazole	9.2	U J F1	370	9.2	MS
218-01-9	Chrysene	10	U	370	10	
53-70-3	Dibenz(a,h)anthracene	19	U	37	19	
132-64-9	Dibenzofuran	11	U	370	11	
84-66-2	Diethyl phthalate	11	U	370	11	
131-11-3	Dimethyl phthalate	11	U	370	11	
84-74-2	Di-n-butyl phthalate	11	U	370	11	
117-84-0	Di-n-octyl phthalate	19	U	370	19	
206-44-0	Fluoranthene	11	U	370	11	
86-73-7	Fluorene	8.1	U	370	8.1	
118-74-1	Hexachlorobenzene	15	U	37	15	
87-68-3	Hexachlorobutadiene	10	U	75	10	
77-47-4	Hexachlorocyclopentadiene	23	U	370	23	
67-72-1	Hexachloroethane	14	U	37	14	
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	37	25	
78-59-1	Isophorone	8.0	U J F1	150	8.0	MS
91-20-3	Naphthalene	9.5	U J F1	370	9.5	MS
98-95-3	Nitrobenzene	12	U	37	12	
621-64-7	N-Nitrosodi-n-propylamine	12	U	37	12	
86-30-6	N-Nitrosodiphenylamine	34	U	370	34	
87-86-5	Pentachlorophenol	45	U J F2 F1	300	45	MS, RPD
85-01-8	Phenanthrene	9.9	U	370	9.9	
108-95-2	Phenol	12	U F1	370	12	
129-00-0	Pyrene	17	U F1	370	17	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: z9848.D

Analysis Method: 8270D | Date Collected: 03/30/2015 11:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0128(g) | Date Analyzed: 04/01/2015 22:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	49		10-120
321-60-8	2-Fluorobiphenyl	56		40-109
367-12-4	2-Fluorophenol (Surr)	39		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	47		38-105
4165-62-2	Phenol-d5 (Surr)	39	X	41-118
1718-51-0	Terphenyl-d14 (Surr)	53		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) Lab Sample ID: 460-92511-1

Matrix: Solid Lab File ID: z9848.D

Analysis Method: 8270D Date Collected: 03/30/2015 11:45

Extract. Method: 3546 Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0128(g) Date Analyzed: 04/01/2015 22:30

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 11.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) | Lab Sample ID: 460-92511-2

Matrix: Solid | Lab File ID: z9846.D

Analysis Method: 8270D | Date Collected: 03/30/2015 12:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0493(g) | Date Analyzed: 04/01/2015 21:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	1,1'-Biphenyl	32	U	370	32	
95-94-3	1,2,4,5-Tetrachlorobenzene	28	U	370	28	
108-60-1	2,2'-oxybis[1-chloropropane]	15	U	370	15	
58-90-2	2,3,4,6-Tetrachlorophenol	35	U	370	35	
95-95-4	2,4,5-Trichlorophenol	37	U	370	37	
88-06-2	2,4,6-Trichlorophenol	11	U	150	11	
120-83-2	2,4-Dichlorophenol	8.8	U	150	8.8	
105-67-9	2,4-Dimethylphenol	82	U	370	82	
51-28-5	2,4-Dinitrophenol	280	U	300	280	
121-14-2	2,4-Dinitrotoluene	15	U	75	15	
606-20-2	2,6-Dinitrotoluene	20	U	75	20	
91-58-7	2-Chloronaphthalene	8.4	U	370	8.4	
95-57-8	2-Chlorophenol	9.4	U	370	9.4	
91-57-6	2-Methylnaphthalene	8.2	U	370	8.2	
95-48-7	2-Methylphenol	16	U	370	16	
88-74-4	2-Nitroaniline	12	UJ	370	12	ccv
88-75-5	2-Nitrophenol	12	U	370	12	
91-94-1	3,3'-Dichlorobenzidine	41	U	150	41	
99-09-2	3-Nitroaniline	11	U	370	11	
534-52-1	4,6-Dinitro-2-methylphenol	99	U	300	99	
101-55-3	4-Bromophenyl phenyl ether	12	U	370	12	
59-50-7	4-Chloro-3-methylphenol	16	U	370	16	
106-47-8	4-Chloroaniline	9.5	U	370	9.5	
7005-72-3	4-Chlorophenyl phenyl ether	11	U	370	11	
106-44-5	4-Methylphenol	10	U	370	10	
100-01-6	4-Nitroaniline	14	U	370	14	
100-02-7	4-Nitrophenol	180	U	750	180	
83-32-9	Acenaphthene	9.0	U	370	9.0	
208-96-8	Acenaphthylene	9.5	U	370	9.5	
98-86-2	Acetophenone	8.1	U	370	8.1	
120-12-7	Anthracene	35	U	370	35	
1912-24-9	Atrazine	16	U	150	16	
100-52-7	Benzaldehyde	28	U	370	28	
56-55-3	Benzo[a]anthracene	31	U	37	31	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) | Lab Sample ID: 460-92511-2

Matrix: Solid | Lab File ID: z9846.D

Analysis Method: 8270D | Date Collected: 03/30/2015 12:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0493(g) | Date Analyzed: 04/01/2015 21:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	11	U ✗	37	11
205-99-2	Benzo[b]fluoranthene	14	U	37	14
191-24-2	Benzo[g,h,i]perylene	21	U	370	21
207-08-9	Benzo[k]fluoranthene	16	U	37	16
111-91-1	Bis(2-chloroethoxy)methane	12	U	370	12
111-44-4	Bis(2-chloroethyl)ether	8.8	U	37	8.8
117-81-7	Bis(2-ethylhexyl) phthalate	14	U	370	14
85-68-7	Butyl benzyl phthalate	11	U	370	11
105-60-2	Caprolactam	27	U	370	27
86-74-8	Carbazole	9.2	U	370	9.2
218-01-9	Chrysene	10	U	370	10
53-70-3	Dibenz(a,h)anthracene	19	U	37	19
132-64-9	Dibenzofuran	11	U	370	11
84-66-2	Diethyl phthalate	11	U	370	11
131-11-3	Dimethyl phthalate	11	U	370	11
84-74-2	Di-n-butyl phthalate	11	U	370	11
117-84-0	Di-n-octyl phthalate	19	U	370	19
206-44-0	Fluoranthene	13	J	370	11
86-73-7	Fluorene	8.1	U	370	8.1
118-74-1	Hexachlorobenzene	15	U	37	15
87-68-3	Hexachlorobutadiene	10	U	75	10
77-47-4	Hexachlorocyclopentadiene	23	U ✗	370	23
67-72-1	Hexachloroethane	14	U	37	14
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	37	25
78-59-1	Isophorone	8.0	U	150	8.0
91-20-3	Naphthalene	9.4	U	370	9.4
98-95-3	Nitrobenzene	12	U	37	12
621-64-7	N-Nitrosodi-n-propylamine	12	U	37	12
86-30-6	N-Nitrosodiphenylamine	34	U	370	34
87-86-5	Pentachlorophenol	45	U	300	45
85-01-8	Phenanthrene	15	J	370	9.9
108-95-2	Phenol	12	U	370	12
129-00-0	Pyrene	17	U	370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) | Lab Sample ID: 460-92511-2

Matrix: Solid | Lab File ID: z9846.D

Analysis Method: 8270D | Date Collected: 03/30/2015 12:45

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0493(g) | Date Analyzed: 04/01/2015 21:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	51		10-120
321-60-8	2-Fluorobiphenyl	59		40-109
367-12-4	2-Fluorophenol (Surr)	43		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	52		38-105
4165-62-2	Phenol-d5 (Surr)	45		41-118
1718-51-0	Terphenyl-d14 (Surr)	57		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	TestAmerica Edison	Job No.:	460-92355-1
SDG No.:	92355, 92511, 92568		
Client Sample ID:	SB42(35-37.5)	Lab Sample ID:	460-92511-2
Matrix:	Solid	Lab File ID:	z9846.D
Analysis Method:	8270D	Date Collected:	03/30/2015 12:45
Extract. Method:	3546	Date Extracted:	04/01/2015 07:37
Sample wt/vol:	15.0493(g)	Date Analyzed:	04/01/2015 21:38
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1(uL)	Level: (low/med)	Low
% Moisture:	11.2	GPC Cleanup:(Y/N)	N
Analysis Batch No.:	289674	Units:	ug/Kg
Number TICs Found:	0	TIC Result Total:	0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: z9847.D

Analysis Method: 8270D | Date Collected: 03/30/2015 13:30

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 22:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	1,1'-Biphenyl	32	U	380	32	
95-94-3	1,2,4,5-Tetrachlorobenzene	28	U	380	28	
108-60-1	2,2'-oxybis[1-chloropropane]	15	U	380	15	
58-90-2	2,3,4,6-Tetrachlorophenol	35	U	380	35	
95-95-4	2,4,5-Trichlorophenol	37	U	380	37	
88-06-2	2,4,6-Trichlorophenol	11	U	150	11	
120-83-2	2,4-Dichlorophenol	8.9	U	150	8.9	
105-67-9	2,4-Dimethylphenol	83	U	380	83	
51-28-5	2,4-Dinitrophenol	280	U	300	280	
121-14-2	2,4-Dinitrotoluene	15	U	76	15	
606-20-2	2,6-Dinitrotoluene	20	U	76	20	
91-58-7	2-Chloronaphthalene	8.5	U	380	8.5	
95-57-8	2-Chlorophenol	9.6	U	380	9.6	
91-57-6	2-Methylnaphthalene	8.3	U	380	8.3	
95-48-7	2-Methylphenol	16	U	380	16	
88-74-4	2-Nitroaniline	12	UJ	380	12	ccv
88-75-5	2-Nitrophenol	13	U	380	13	
91-94-1	3,3'-Dichlorobenzidine	42	U	150	42	
99-09-2	3-Nitroaniline	11	U	380	11	
534-52-1	4,6-Dinitro-2-methylphenol	100	U	300	100	
101-55-3	4-Bromophenyl phenyl ether	12	U	380	12	
59-50-7	4-Chloro-3-methylphenol	16	U	380	16	
106-47-8	4-Chloroaniline	9.7	U	380	9.7	
7005-72-3	4-Chlorophenyl phenyl ether	11	U	380	11	
106-44-5	4-Methylphenol	10	U	380	10	
100-01-6	4-Nitroaniline	14	U	380	14	
100-02-7	4-Nitrophenol	180	U	760	180	
83-32-9	Acenaphthene	9.1	U	380	9.1	
208-96-8	Acenaphthylene	9.7	U	380	9.7	
98-86-2	Acetophenone	8.2	U	380	8.2	
120-12-7	Anthracene	36	U	380	36	
1912-24-9	Atrazine	17	U	150	17	
100-52-7	Benzaldehyde	29	U	380	29	
56-55-3	Benzo[a]anthracene	31	U	38	31	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: z9847.D

Analysis Method: 8270D | Date Collected: 03/30/2015 13:30

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 22:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	11	U	38	11
205-99-2	Benzo[b]fluoranthene	15	U	38	15
191-24-2	Benzo[g,h,i]perylene	22	U	380	22
207-08-9	Benzo[k]fluoranthene	16	U	38	16
111-91-1	Bis(2-chloroethoxy)methane	12	U	380	12
111-44-4	Bis(2-chloroethyl)ether	8.9	U	38	8.9
117-81-7	Bis(2-ethylhexyl) phthalate	15	U	380	15
85-68-7	Butyl benzyl phthalate	12	U	380	12
105-60-2	Caprolactam	27	U	380	27
86-74-8	Carbazole	9.3	U	380	9.3
218-01-9	Chrysene	10	U	380	10
53-70-3	Dibenz(a,h)anthracene	20	U	38	20
132-64-9	Dibenzofuran	11	U	380	11
84-66-2	Diethyl phthalate	11	U	380	11
131-11-3	Dimethyl phthalate	11	U	380	11
84-74-2	Di-n-butyl phthalate	11	U	380	11
117-84-0	Di-n-octyl phthalate	19	U	380	19
206-44-0	Fluoranthene	11	U	380	11
86-73-7	Fluorene	8.2	U	380	8.2
118-74-1	Hexachlorobenzene	15	U	38	15
87-68-3	Hexachlorobutadiene	11	U	76	11
77-47-4	Hexachlorocyclopentadiene	23	U	380	23
67-72-1	Hexachloroethane	14	U	38	14
193-39-5	Indeno[1,2,3-cd]pyrene	25	U	38	25
78-59-1	Isophorone	8.1	U	150	8.1
91-20-3	Naphthalene	9.6	U	380	9.6
98-95-3	Nitrobenzene	12	U	38	12
621-64-7	N-Nitrosodi-n-propylamine	13	U	38	13
86-30-6	N-Nitrosodiphenylamine	34	U	380	34
87-86-5	Pentachlorophenol	46	U	300	46
85-01-8	Phenanthrene	10	U	380	10
108-95-2	Phenol	12	U	380	12
129-00-0	Pyrene	17	U	380	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: z9847.D

Analysis Method: 8270D | Date Collected: 03/30/2015 13:30

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 22:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	48		10-120
321-60-8	2-Fluorobiphenyl	53		40-109
367-12-4	2-Fluorophenol (Surr)	40		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	47		38-105
4165-62-2	Phenol-d5 (Surr)	40	X	41-118
1718-51-0	Terphenyl-d14 (Surr)	52		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) | Lab Sample ID: 460-92511-3

Matrix: Solid | Lab File ID: z9847.D

Analysis Method: 8270D | Date Collected: 03/30/2015 13:30

Extract. Method: 3546 | Date Extracted: 04/01/2015 07:37

Sample wt/vol: 15.0231(g) | Date Analyzed: 04/01/2015 22:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289674 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) DL | Lab Sample ID: 460-92568-1 DL

Matrix: Solid | Lab File ID: L1202886.D

Analysis Method: 8270D | Date Collected: 04/01/2015 07:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0205(g) | Date Analyzed: 04/06/2015 08:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3400	J	19000	1600
95-94-3	1,2,4,5-Tetrachlorobenzene	1400	U	19000	1400
108-60-1	2,2'-oxybis[1-chloropropane]	790	U	19000	790
58-90-2	2,3,4,6-Tetrachlorophenol	1800	U	19000	1800
95-95-4	2,4,5-Trichlorophenol	1900	U	19000	1900
88-06-2	2,4,6-Trichlorophenol	550	U	7800	550
120-83-2	2,4-Dichlorophenol	450	U	7800	450
105-67-9	2,4-Dimethylphenol	4200	U	19000	4200
51-28-5	2,4-Dinitrophenol	15000	U	16000	15000
121-14-2	2,4-Dinitrotoluene	760	U	3900	760
606-20-2	2,6-Dinitrotoluene	1000	U	3900	1000
91-58-7	2-Chloronaphthalene	440	U	19000	440
95-57-8	2-Chlorophenol	490	U	19000	490
91-57-6	2-Methylnaphthalene	11000	J	19000	430
95-48-7	2-Methylphenol	840	U	19000	840
88-74-4	2-Nitroaniline	640	U	19000	640
88-75-5	2-Nitrophenol	650	U	19000	650
91-94-1	3,3'-Dichlorobenzidine	2200	U	7800	2200
99-09-2	3-Nitroaniline	570	U	19000	570
534-52-1	4,6-Dinitro-2-methylphenol	5100	U	16000	5100
101-55-3	4-Bromophenyl phenyl ether	610	U	19000	610
59-50-7	4-Chloro-3-methylphenol	830	U	19000	830
106-47-8	4-Chloroaniline	500	U	19000	500
7005-72-3	4-Chlorophenyl phenyl ether	580	U	19000	580
106-44-5	4-Methylphenol	520	U	19000	520
100-01-6	4-Nitroaniline	730	U	19000	730
100-02-7	4-Nitrophenol	9300	U	39000	9300
83-32-9	Acenaphthene	30000		19000	470
208-96-8	Acenaphthylene	1500	J	19000	500
98-86-2	Acetophenone	420	U	19000	420
120-12-7	Anthracene	56000		19000	1800
1912-24-9	Atrazine	860	U	7800	860
100-52-7	Benzaldehyde	1500	U	19000	1500
56-55-3	Benzo[a]anthracene	73000		1900	1600

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) DL | Lab Sample ID: 460-92568-1 DL

Matrix: Solid | Lab File ID: L1202886.D

Analysis Method: 8270D | Date Collected: 04/01/2015 07:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0205(g) | Date Analyzed: 04/06/2015 08:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	61000		1900	580	
205-99-2	Benzo[b]fluoranthene	66000		1900	750	
191-24-2	Benzo[g,h,i]perylene	32000		19000	1100	
207-08-9	Benzo[k]fluoranthene	27000		1900	840	
111-91-1	Bis(2-chloroethoxy)methane	600	U	19000	600	
111-44-4	Bis(2-chloroethyl)ether	450	U	1900	450	
117-81-7	Bis(2-ethylhexyl) phthalate	750	U	19000	750	
85-68-7	Butyl benzyl phthalate	590	U	19000	590	
105-60-2	Caprolactam	1400	U	19000	1400	
86-74-8	Carbazole	16000	J	19000	480	
218-01-9	Chrysene	81000		19000	520	
53-70-3	Dibenz(a,h)anthracene	9500	J	1900	1000	ccv
132-64-9	Dibenzofuran	21000		19000	580	
84-66-2	Diethyl phthalate	550	U	19000	550	
131-11-3	Dimethyl phthalate	560	U	19000	560	
84-74-2	Di-n-butyl phthalate	580	U	19000	580	
117-84-0	Di-n-octyl phthalate	980	U	19000	980	
206-44-0	Fluoranthene	180000		19000	570	
86-73-7	Fluorene	37000		19000	420	
118-74-1	Hexachlorobenzene	780	U	1900	780	
87-68-3	Hexachlorobutadiene	540	U	3900	540	
77-47-4	Hexachlorocyclopentadiene	1200	U	19000	1200	
67-72-1	Hexachloroethane	710	U	1900	710	
193-39-5	Indeno[1,2,3-cd]pyrene	36000	J	1900	1300	ccv
78-59-1	Isophorone	410	U	7800	410	
91-20-3	Naphthalene	38000		19000	490	
98-95-3	Nitrobenzene	610	U	1900	610	
621-64-7	N-Nitrosodi-n-propylamine	650	U	1900	650	
86-30-6	N-Nitrosodiphenylamine	1700	U	19000	1700	
87-86-5	Pentachlorophenol	2300	U	16000	2300	
85-01-8	Phenanthrene	260000		19000	510	
108-95-2	Phenol	630	U	19000	630	
129-00-0	Pyrene	190000		19000	870	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) DL | Lab Sample ID: 460-92568-1 DL

Matrix: Solid | Lab File ID: L1202886.D

Analysis Method: 8270D | Date Collected: 04/01/2015 07:45

Extract, Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0205(g) | Date Analyzed: 04/06/2015 08:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	42		10-120
321-60-8	2-Fluorobiphenyl	79		40-109
367-12-4	2-Fluorophenol (Surr)	54		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	66		38-105
4165-62-2	Phenol-d5 (Surr)	64		41-118
1718-51-0	Terphenyl-d14 (Surr)	74		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) DL | Lab Sample ID: 460-92568-1 DL

Matrix: Solid | Lab File ID: L1202886.D

Analysis Method: 8270D | Date Collected: 04/01/2015 07:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0205(g) | Date Analyzed: 04/06/2015 08:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 332000

CAS NO.	COMPOUND NAME	RT	RESULT	Q
832-69-9	Phenanthrene, 1-methyl-	9.42	38000	J N
2531-84-2	Phenanthrene, 2-methyl-	9.45	46000	J N
	Unknown	9.52	65000	J
610-48-0	Anthracene, 1-methyl-	9.55	30000	J N
	Unknown	9.71	25000	J
33543-31-6	Fluoranthene, 2-methyl-	10.69	23000	J N
	Unknown PAH	10.77	19000	J
	Unknown	13.44	20000	J
198-55-0	Perylene	13.53	45000	J N
	Unknown PAH	13.72	21000	J

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) DL | Lab Sample ID: 460-92568-2 DL

Matrix: Solid | Lab File ID: L1202887.D

Analysis Method: 8270D | Date Collected: 04/01/2015 08:15

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0442(g) | Date Analyzed: 04/06/2015 08:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 25

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	13000		10000	880
95-94-3	1,2,4,5-Tetrachlorobenzene	760	U	10000	760
108-60-1	2,2'-oxybis[1-chloropropane]	420	U	10000	420
58-90-2	2,3,4,6-Tetrachlorophenol	970	U	10000	970
95-95-4	2,4,5-Trichlorophenol	1000	U	10000	1000
88-06-2	2,4,6-Trichlorophenol	290	U	4100	290
120-83-2	2,4-Dichlorophenol	240	U	4100	240
105-67-9	2,4-Dimethylphenol	2300	U	10000	2300
51-28-5	2,4-Dinitrophenol	7800	U	8300	7800
121-14-2	2,4-Dinitrotoluene	410	U	2100	410
606-20-2	2,6-Dinitrotoluene	550	U	2100	550
91-58-7	2-Chloronaphthalene	230	U	10000	230
95-57-8	2-Chlorophenol	260	U	10000	260
91-57-6	2-Methylnaphthalene	87000		10000	230
95-48-7	2-Methylphenol	450	U	10000	450
88-74-4	2-Nitroaniline	340	U	10000	340
88-75-5	2-Nitrophenol	340	U	10000	340
91-94-1	3,3'-Dichlorobenzidine	1100	U	4100	1100
99-09-2	3-Nitroaniline	300	U	10000	300
534-52-1	4,6-Dinitro-2-methylphenol	2700	U	8300	2700
101-55-3	4-Bromophenyl phenyl ether	320	U	10000	320
59-50-7	4-Chloro-3-methylphenol	440	U	10000	440
106-47-8	4-Chloroaniline	260	U	10000	260
7005-72-3	4-Chlorophenyl phenyl ether	310	U	10000	310
106-44-5	4-Methylphenol	280	U	10000	280
100-01-6	4-Nitroaniline	390	U	10000	390
100-02-7	4-Nitrophenol	4900	U	21000	4900
83-32-9	Acenaphthene	12000		10000	250
208-96-8	Acenaphthylene	53000		10000	260
98-86-2	Acetophenone	220	U	10000	220
120-12-7	Anthracene	43000		10000	980
1912-24-9	Atrazine	460	U	4100	460
100-52-7	Benzaldehyde	780	U	10000	780
56-55-3	Benzo[a]anthracene	31000		1000	860

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Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) DL | Lab Sample ID: 460-92568-2 DL

Matrix: Solid | Lab File ID: L1202887.D

Analysis Method: 8270D | Date Collected: 04/01/2015 08:15

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0442(g) | Date Analyzed: 04/06/2015 08:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 25

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	20000		1000	310	
205-99-2	Benzo[b]fluoranthene	13000		1000	400	
191-24-2	Benzo[g,h,i]perylene	6800	J	10000	590	
207-08-9	Benzo[k]fluoranthene	5500		1000	450	
111-91-1	Bis(2-chloroethoxy)methane	320	U	10000	320	
111-44-4	Bis(2-chloroethyl)ether	240	U	1000	240	
117-81-7	Bis(2-ethylhexyl) phthalate	400	U	10000	400	
85-68-7	Butyl benzyl phthalate	320	U	10000	320	
105-60-2	Caprolactam	740	U	10000	740	
86-74-8	Carbazole	770	J	10000	250	
218-01-9	Chrysene	29000		10000	280	
53-70-3	Dibenz(a,h)anthracene	2500	J	1000	530	ccv
132-64-9	Dibenzofuran	310	U	10000	310	
84-66-2	Diethyl phthalate	290	U	10000	290	
131-11-3	Dimethyl phthalate	300	U	10000	300	
84-74-2	Di-n-butyl phthalate	310	U	10000	310	
117-84-0	Di-n-octyl phthalate	520	U	10000	520	
206-44-0	Fluoranthene	40000		10000	300	
86-73-7	Fluorene	42000		10000	220	
118-74-1	Hexachlorobenzene	420	U	1000	420	
87-68-3	Hexachlorobutadiene	290	U	2100	290	
77-47-4	Hexachlorocyclopentadiene	640	U	10000	640	
67-72-1	Hexachloroethane	380	U	1000	380	
193-39-5	Indeno[1,2,3-cd]pyrene	7000	J	1000	680	ccv
78-59-1	Isophorone	220	U	4100	220	
91-20-3	Naphthalene	66000		10000	260	
98-95-3	Nitrobenzene	320	U	1000	320	
621-64-7	N-Nitrosodi-n-propylamine	340	U	1000	340	
86-30-6	N-Nitrosodiphenylamine	930	U	10000	930	
87-86-5	Pentachlorophenol	1200	U	8300	1200	
85-01-8	Phenanthrene	160000		10000	270	
108-95-2	Phenol	340	U	10000	340	
129-00-0	Pyrene	64000		10000	470	

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Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) DL | Lab Sample ID: 460-92568-2 DL

Matrix: Solid | Lab File ID: L1202887.D

Analysis Method: 8270D | Date Collected: 04/01/2015 08:15

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0442(g) | Date Analyzed: 04/06/2015 08:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 25

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	28		10-120
321-60-8	2-Fluorobiphenyl	79		40-109
367-12-4	2-Fluorophenol (Surr)	54		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	63		38-105
4165-62-2	Phenol-d5 (Surr)	68		41-118
1718-51-0	Terphenyl-d14 (Surr)	61		16-151

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) DL | Lab Sample ID: 460-92568-2 DL

Matrix: Solid | Lab File ID: L1202887.D

Analysis Method: 8270D | Date Collected: 04/01/2015 08:15

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0442(g) | Date Analyzed: 04/06/2015 08:29

Con. Extract Vol.: 1(mL) | Dilution Factor: 25

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

Number TICs Found: 18 | TIC Result Total: 652000

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	6.51	67000	J
571-61-9	Naphthalene, 1,5-dimethyl-	7.04	37000	J N
581-40-8	Naphthalene, 2,3-dimethyl-	7.12	44000	J N
575-37-1	Naphthalene, 1,7-dimethyl-	7.14	25000	J N
	Dimethylnapthalene isomer	7.23	25000	J
	Unknown	8.22	26000	J
1730-37-6	9H-Fluorene, 1-methyl-	8.53	25000	J N
132-65-0	Dibenzothiophene	8.82	19000	J N
610-48-0	Anthracene, 1-methyl-	9.42	48000	J N
2531-84-2	Phenanthrene, 2-methyl-	9.45	47000	J N
613-12-7	Anthracene, 2-methyl-	9.49	24000	J N
	Unknown	9.53	66000	J
832-64-4	Phenanthrene, 4-methyl-	9.55	38000	J N
93327-56-1	6-Phenylbenzocyclohepten-7-one	9.70	34000	J N
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthrene, 4	9.86	54000	J N
3674-66-6	Phenanthrene, 2,5-dimethyl-	9.96	24000	J N
6566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13-penta	10.16	25000	J N
	Unknown	10.21	24000	J

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: L1202742.D

Analysis Method: 8270D | Date Collected: 04/01/2015 09:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0158(g) | Date Analyzed: 04/03/2015 02:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	200	J	380	32
95-94-3	1,2,4,5-Tetrachlorobenzene	28	U	380	28
108-60-1	2,2'-oxybis[1-chloropropane]	15	U	380	15
58-90-2	2,3,4,6-Tetrachlorophenol	35	U	380	35
95-95-4	2,4,5-Trichlorophenol	37	U	380	37
88-06-2	2,4,6-Trichlorophenol	11	U	150	11
120-83-2	2,4-Dichlorophenol	8.9	U	150	8.9
105-67-9	2,4-Dimethylphenol	83	U	380	83
51-28-5	2,4-Dinitrophenol	280	U	300	280
121-14-2	2,4-Dinitrotoluene	15	U	76	15
606-20-2	2,6-Dinitrotoluene	20	U	76	20
91-58-7	2-Chloronaphthalene	8.5	U	380	8.5
95-57-8	2-Chlorophenol	9.5	U	380	9.5
91-57-6	2-Methylnaphthalene	720		380	8.3
95-48-7	2-Methylphenol	16	U	380	16
88-74-4	2-Nitroaniline	12	U	380	12
88-75-5	2-Nitrophenol	13	U	380	13
91-94-1	3,3'-Dichlorobenzidine	42	U	150	42
99-09-2	3-Nitroaniline	11	U	380	11
534-52-1	4,6-Dinitro-2-methylphenol	100	U	300	100
101-55-3	4-Bromophenyl phenyl ether	12	U	380	12
59-50-7	4-Chloro-3-methylphenol	16	U	380	16
106-47-8	4-Chloroaniline	9.7	U	380	9.7
7005-72-3	4-Chlorophenyl phenyl ether	11	U	380	11
106-44-5	4-Methylphenol	10	U	380	10
100-01-6	4-Nitroaniline	14	U	380	14
100-02-7	4-Nitrophenol	180	U	760	180
83-32-9	Acenaphthene	320	J	380	9.1
208-96-8	Acenaphthylene	340	J	380	9.7
98-86-2	Acetophenone	8.2	U	380	8.2
120-12-7	Anthracene	1300		380	36
1912-24-9	Atrazine	17	U	150	17
100-52-7	Benzaldehyde	29	U	380	29
56-55-3	Benzo[a]anthracene	1400		38	31

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: L1202742.D

Analysis Method: 8270D | Date Collected: 04/01/2015 09:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0158(g) | Date Analyzed: 04/03/2015 02:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	920		38	11
205-99-2	Benzo[b]fluoranthene	770		38	15
191-24-2	Benzo[g,h,i]perylene	180	J	380	22
207-08-9	Benzo[k]fluoranthene	320		38	16
111-91-1	Bis(2-chloroethoxy)methane	12	U	380	12
111-44-4	Bis(2-chloroethyl)ether	8.9	U	38	8.9
117-81-7	Bis(2-ethylhexyl) phthalate	15	U	380	15
85-68-7	Butyl benzyl phthalate	12	U	380	12
105-60-2	Caprolactam	27	U	380	27
86-74-8	Carbazole	9.3	U	380	9.3
218-01-9	Chrysene	1400		380	10
53-70-3	Dibenz(a,h)anthracene	67		38	20
132-64-9	Dibenzofuran	11	U	380	11
84-66-2	Diethyl phthalate	11	U	380	11
131-11-3	Dimethyl phthalate	11	U	380	11
84-74-2	Di-n-butyl phthalate	11	U	380	11
117-84-0	Di-n-octyl phthalate	19	U	380	19
206-44-0	Fluoranthene	1900		380	11
86-73-7	Fluorene	530		380	8.2
118-74-1	Hexachlorobenzene	15	U	38	15
87-68-3	Hexachlorobutadiene	11	U	76	11
77-47-4	Hexachlorocyclopentadiene	23	U	380	23
67-72-1	Hexachloroethane	14	U	38	14
193-39-5	Indeno[1,2,3-cd]pyrene	210		38	25
78-59-1	Isophorone	8.1	U	150	8.1
91-20-3	Naphthalene	600		380	9.5
98-95-3	Nitrobenzene	12	U	38	12
621-64-7	N-Nitrosodi-n-propylamine	13	U	38	13
86-30-6	N-Nitrosodiphenylamine	34	U	380	34
87-86-5	Pentachlorophenol	45	U	300	45
85-01-8	Phenanthrene	5300		380	10
108-95-2	Phenol	12	U	380	12
129-00-0	Pyrene	3400		380	17

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: L1202742.D

Analysis Method: 8270D | Date Collected: 04/01/2015 09:45

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0158(g) | Date Analyzed: 04/03/2015 02:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	53		10-120
321-60-8	2-Fluorobiphenyl	80		40-109
367-12-4	2-Fluorophenol (Surr)	59		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	69		38-105
4165-62-2	Phenol-d5 (Surr)	61		41-118
1718-51-0	Terphenyl-d14 (Surr)	72		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	TestAmerica Edison	Job No.:	460-92355-1
SDG No.:	92355, 92511, 92568		
Client Sample ID:	SB40 (50-55)	Lab Sample ID:	460-92568-3
Matrix:	Solid	Lab File ID:	L1202742.D
Analysis Method:	8270D	Date Collected:	04/01/2015 09:45
Extract. Method:	3546	Date Extracted:	04/02/2015 05:48
Sample wt/vol:	15.0158(g)	Date Analyzed:	04/03/2015 02:01
Con. Extract Vol.:	1(mL)	Dilution Factor:	1
Injection Volume:	1(uL)	Level: (low/med)	Low
% Moisture:	12.1	GPC Cleanup:(Y/N)	N
Analysis Batch No.:	289942	Units:	ug/Kg
Number TICs Found:	0	TIC Result Total:	0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: L1202767.D

Analysis Method: 8270D | Date Collected: 03/31/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0312(g) | Date Analyzed: 04/03/2015 13:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290049 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	1,1'-Biphenyl	4500	J	20000	1700	
95-94-3	1,2,4,5-Tetrachlorobenzene	1500	U	20000	1500	
108-60-1	2,2'-oxybis[1-chloropropane]	810	U	20000	810	
~~58-90-2~~	~~2,3,4,6-Tetrachlorophenol~~	~~1900~~	~~U F1 R~~	~~20000~~	~~1900~~	MS < 10%
95-95-4	2,4,5-Trichlorophenol	2000	U	20000	2000	
88-06-2	2,4,6-Trichlorophenol	560	U	7900	560	
120-83-2	2,4-Dichlorophenol	460	U	7900	460	
105-67-9	2,4-Dimethylphenol	4300	U	20000	4300	
51-28-5	2,4-Dinitrophenol	15000	U ~~F1~~	16000	15000	CCV
121-14-2	2,4-Dinitrotoluene	780	U ~~F1~~	4000	780	
606-20-2	2,6-Dinitrotoluene	1000	U	4000	1000	
91-58-7	2-Chloronaphthalene	450	U ~~F1~~	20000	450	
95-57-8	2-Chlorophenol	500	U	20000	500	
91-57-6	2-Methylnaphthalene	12000	J ~~F1~~	20000	430	MS, < RL
95-48-7	2-Methylphenol	860	U	20000	860	
88-74-4	2-Nitroaniline	650	U	20000	650	
88-75-5	2-Nitrophenol	660	U ~~J F1~~	20000	660	
91-94-1	3,3'-Dichlorobenzidine	2200	U	7900	2200	
~~99-09-2~~	~~3-Nitroaniline~~	~~580~~	~~U F1 R~~	~~20000~~	~~580~~	MS < 10%
~~534-52-1~~	~~4,6-Dinitro-2-methylphenol~~	~~5200~~	~~U F1 R~~	~~16000~~	~~5200~~	MS < 10%
101-55-3	4-Bromophenyl phenyl ether	620	U	20000	620	
59-50-7	4-Chloro-3-methylphenol	850	U	20000	850	
106-47-8	4-Chloroaniline	510	U	20000	510	
7005-72-3	4-Chlorophenyl phenyl ether	590	U	20000	590	
106-44-5	4-Methylphenol	540	U	20000	540	
100-01-6	4-Nitroaniline	740	U ~~F2~~	20000	740	
100-02-7	4-Nitrophenol	9500	U	40000	9500	
83-32-9	Acenaphthene	19000	J	20000	480	
208-96-8	Acenaphthylene	3100	J	20000	510	
98-86-2	Acetophenone	430	U	20000	430	
120-12-7	Anthracene	48000		20000	1900	
1912-24-9	Atrazine	870	U ~~F1~~	7900	870	
100-52-7	Benzaldehyde	1500	U	20000	1500	
56-55-3	Benzo[a]anthracene	63000		2000	1600	

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: L1202767.D

Analysis Method: 8270D | Date Collected: 03/31/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0312(g) | Date Analyzed: 04/03/2015 13:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290049 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	52000		2000	600	
205-99-2	Benzo[b]fluoranthene	77000		2000	770	
191-24-2	Benzo[g,h,i]perylene	13000	J ~~F1~~	20000	1100	
207-08-9	Benzo[k]fluoranthene	28000		2000	860	
111-91-1	Bis(2-chloroethoxy)methane	610	U	20000	610	
111-44-4	Bis(2-chloroethyl)ether	460	U	2000	460	
117-81-7	Bis(2-ethylhexyl) phthalate	770	U	20000	770	
85-68-7	Butyl benzyl phthalate	610	U	20000	610	
105-60-2	Caprolactam	1400	U	20000	1400	
86-74-8	Carbazole	19000	J	20000	490	
218-01-9	Chrysene	64000		20000	540	
53-70-3	Dibenz(a,h)anthracene	4700	~~F1~~ J-	2000	1000	MS <10%
132-64-9	Dibenzofuran	23000		20000	600	
84-66-2	Diethyl phthalate	560	U	20000	560	
131-11-3	Dimethyl phthalate	570	U	20000	570	
84-74-2	Di-n-butyl phthalate	590	U	20000	590	
117-84-0	Di-n-octyl phthalate	1000	U ~~F1~~	20000	1000	
206-44-0	Fluoranthene	180000		20000	580	
86-73-7	Fluorene	28000		20000	430	
118-74-1	Hexachlorobenzene	800	U	2000	800	
87-68-3	Hexachlorobutadiene	550	U	4000	550	
~~77-47-4~~	~~Hexachlorocyclopentadiene~~	~~1200~~	~~U F1~~ R	~~20000~~	~~1200~~	MS <10%
67-72-1	Hexachloroethane	720	U	2000	720	
193-39-5	Indeno[1,2,3-cd]pyrene	18000		2000	1300	
78-59-1	Isophorone	420	U	7900	420	
91-20-3	Naphthalene	35000		20000	500	
98-95-3	Nitrobenzene	620	U	2000	620	
621-64-7	N-Nitrosodi-n-propylamine	660	U	2000	660	
86-30-6	N-Nitrosodiphenylamine	1800	U	20000	1800	
~~87-86-5~~	~~Pentachlorophenol~~	~~2400~~	~~U F1~~ R	~~16000~~	~~2400~~	MS <10%
85-01-8	Phenanthrene	220000		20000	520	
108-95-2	Phenol	640	U	20000	640	
129-00-0	Pyrene	100000		20000	890	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: L1202767.D

Analysis Method: 8270D | Date Collected: 03/31/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0312(g) | Date Analyzed: 04/03/2015 13:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290049 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	34		10-120
321-60-8	2-Fluorobiphenyl	90		40-109
367-12-4	2-Fluorophenol (Surr)	58		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	67		38-105
4165-62-2	Phenol-d5 (Surr)	59		41-118
1718-51-0	Terphenyl-d14 (Surr)	53		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) | Lab Sample ID: 460-92568-4

Matrix: Solid | Lab File ID: L1202767.D

Analysis Method: 8270D | Date Collected: 03/31/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0312(g) | Date Analyzed: 04/03/2015 13:22

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290049 | Units: ug/Kg

Number TICs Found: 6 | TIC Result Total: 121130

CAS NO.	COMPOUND NAME	RT	RESULT	Q
15831-10-4	3 & 4 Methylphenol	4.88	530	J
90-12-0	1-Methylnaphthalene	6.58	9700	J-BI
575-41-7	1,3-Dimethylnaphthalene	7.18	8900	J-BI
832-69-9	Phenanthrene, 1-methyl-	9.51	29000	J N
	Unknown	9.59	34000	J
192-97-2	Benzo[e]pyrene	13.63	39000	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) DL | Lab Sample ID: 460-92568-5 DL

Matrix: Solid | Lab File ID: L1202888.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0005(g) | Date Analyzed: 04/06/2015 11:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	8000		3800	320
95-94-3	1,2,4,5-Tetrachlorobenzene	280	U	3800	280
108-60-1	2,2'-oxybis[1-chloropropane]	160	U	3800	160
58-90-2	2,3,4,6-Tetrachlorophenol	360	U	3800	360
95-95-4	2,4,5-Trichlorophenol	380	U	3800	380
88-06-2	2,4,6-Trichlorophenol	110	U	1500	110
120-83-2	2,4-Dichlorophenol	89	U	1500	89
105-67-9	2,4-Dimethylphenol	830	U	3800	830
51-28-5	2,4-Dinitrophenol	2900	U	3000	2900
121-14-2	2,4-Dinitrotoluene	150	U	770	150
606-20-2	2,6-Dinitrotoluene	200	U	770	200
91-58-7	2-Chloronaphthalene	86	U	3800	86
95-57-8	2-Chlorophenol	96	U	3800	96
91-57-6	2-Methylnaphthalene	36000		3800	84
95-48-7	2-Methylphenol	170	U	3800	170
88-74-4	2-Nitroaniline	120	U	3800	120
88-75-5	2-Nitrophenol	130	U	3800	130
91-94-1	3,3'-Dichlorobenzidine	420	U	1500	420
99-09-2	3-Nitroaniline	110	U	3800	110
534-52-1	4,6-Dinitro-2-methylphenol	1000	U	3000	1000
101-55-3	4-Bromophenyl phenyl ether	120	U	3800	120
59-50-7	4-Chloro-3-methylphenol	160	U	3800	160
106-47-8	4-Chloroaniline	97	U	3800	97
7005-72-3	4-Chlorophenyl phenyl ether	110	U	3800	110
106-44-5	4-Methylphenol	100	U	3800	100
100-01-6	4-Nitroaniline	140	U	3800	140
100-02-7	4-Nitrophenol	1800	U	7700	1800
83-32-9	Acenaphthene	3000	J	3800	92
208-96-8	Acenaphthylene	21000		3800	97
98-86-2	Acetophenone	83	U	3800	83
120-12-7	Anthracene	19000		3800	360
1912-24-9	Atrazine	170	U	1500	170
100-52-7	Benzaldehyde	290	U	3800	290
56-55-3	Benzo[a]anthracene	13000		380	320

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) DL | Lab Sample ID: 460-92568-5 DL

Matrix: Solid | Lab File ID: L1202888.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0005(g) | Date Analyzed: 04/06/2015 11:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	9300		380	110	
205-99-2	Benzo[b]fluoranthene	7200		380	150	
191-24-2	Benzo[g,h,i]perylene	2800	J	3800	220	
207-08-9	Benzo[k]fluoranthene	3000		380	170	
111-91-1	Bis(2-chloroethoxy)methane	120	U	3800	120	
111-44-4	Bis(2-chloroethyl)ether	89	U	380	89	
117-81-7	Bis(2-ethylhexyl) phthalate	150	U	3800	150	
85-68-7	Butyl benzyl phthalate	120	U	3800	120	
105-60-2	Caprolactam	270	U	3800	270	
86-74-8	Carbazole	660	J	3800	94	
218-01-9	Chrysene	12000		3800	100	
53-70-3	Dibenz(a,h)anthracene	950	J	380	200	ccv
132-64-9	Dibenzofuran	2400	J	3800	110	
84-66-2	Diethyl phthalate	110	U	3800	110	
131-11-3	Dimethyl phthalate	110	U	3800	110	
84-74-2	Di-n-butyl phthalate	110	U	3800	110	
117-84-0	Di-n-octyl phthalate	190	U	3800	190	
206-44-0	Fluoranthene	25000		3800	110	
86-73-7	Fluorene	27000		3800	83	
118-74-1	Hexachlorobenzene	150	U	380	150	
87-68-3	Hexachlorobutadiene	110	U	770	110	
77-47-4	Hexachlorocyclopentadiene	240	U	3800	240	
67-72-1	Hexachloroethane	140	U	380	140	
193-39-5	Indeno[1,2,3-cd]pyrene	3400	J	380	250	ccv
78-59-1	Isophorone	81	U	1500	81	
91-20-3	Naphthalene	24000		3800	96	
98-95-3	Nitrobenzene	120	U	380	120	
621-64-7	N-Nitrosodi-n-propylamine	130	U	380	130	
86-30-6	N-Nitrosodiphenylamine	340	U	3800	340	
87-86-5	Pentachlorophenol	460	U	3000	460	
85-01-8	Phenanthrene	87000		3800	100	
108-95-2	Phenol	120	U	3800	120	
129-00-0	Pyrene	30000		3800	170	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) DL | Lab Sample ID: 460-92568-5 DL

Matrix: Solid | Lab File ID: L1202888.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0005(g) | Date Analyzed: 04/06/2015 11:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	66		10-120
321-60-8	2-Fluorobiphenyl	91		40-109
367-12-4	2-Fluorophenol (Surr)	55		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	65		38-105
4165-62-2	Phenol-d5 (Surr)	56		41-118
1718-51-0	Terphenyl-d14 (Surr)	62		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) DL | Lab Sample ID: 460-92568-5 DL

Matrix: Solid | Lab File ID: L1202888.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0005(g) | Date Analyzed: 04/06/2015 11:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290469 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 220100

CAS NO.	COMPOUND NAME	RT	RESULT	Q
90-12-0	Naphthalene, 1-methyl-	6.51	26000	J N
582-16-1	Naphthalene, 2,7-dimethyl-	7.04	16000	J N
581-42-0	Naphthalene, 2,6-dimethyl-	7.12	17000	J N
575-37-1	Naphthalene, 1,7-dimethyl-	7.14	10000	J N
575-41-7	Naphthalene, 1,3-dimethyl-	7.23	9100	J N
	Unknown	8.22	6900	J
1730-37-6	9H-Fluorene, 1-methyl-	8.53	9700	J N
268-77-9	Naphtho[2,3-b]thiophene	8.82	10000	J N
16587-52-3	Dibenzothiophene, 3-methyl-	9.33	4900	J N
832-69-9	Phenanthrene, 1-methyl-	9.42	15000	J N
2531-84-2	Phenanthrene, 2-methyl-	9.45	17000	J N
613-12-7	Anthracene, 2-methyl-	9.49	5400	J N
	Unknown	9.52	24000	J
	Unknown PAH	9.55	11000	J
612-94-2	Naphthalene, 2-phenyl-	9.71	6400	J N
781-43-1	9,10-Dimethylanthracene	9.96	7900	J N
	Unknown	10.21	8500	J
243-17-4	11H-Benzo[b]fluorene	10.69	5700	J N
238-84-6	11H-Benzo[a]fluorene	10.77	4700	J N
192-97-2	Benzo[e]pyrene	13.53	4900	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: L1202732.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0421(g) | Date Analyzed: 04/02/2015 21:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	55	J	440	37
95-94-3	1,2,4,5-Tetrachlorobenzene	32	U	440	32
108-60-1	2,2'-oxybis[1-chloropropane]	18	U	440	18
58-90-2	2,3,4,6-Tetrachlorophenol	41	U	440	41
95-95-4	2,4,5-Trichlorophenol	43	U	440	43
88-06-2	2,4,6-Trichlorophenol	12	U	180	12
120-83-2	2,4-Dichlorophenol	10	U	180	10
105-67-9	2,4-Dimethylphenol	96	U	440	96
51-28-5	2,4-Dinitrophenol	330	U	350	330
121-14-2	2,4-Dinitrotoluene	17	U	88	17
606-20-2	2,6-Dinitrotoluene	23	U	88	23
91-58-7	2-Chloronaphthalene	9.9	U	440	9.9
95-57-8	2-Chlorophenol	11	U	440	11
91-57-6	2-Methylnaphthalene	490		440	9.6
95-48-7	2-Methylphenol	19	U	440	19
88-74-4	2-Nitroaniline	14	U	440	14
88-75-5	2-Nitrophenol	15	U	440	15
91-94-1	3,3'-Dichlorobenzidine	49	U	180	49
99-09-2	3-Nitroaniline	13	U	440	13
534-52-1	4,6-Dinitro-2-methylphenol	120	U	350	120
101-55-3	4-Bromophenyl phenyl ether	14	U	440	14
59-50-7	4-Chloro-3-methylphenol	19	U	440	19
106-47-8	4-Chloroaniline	11	U	440	11
7005-72-3	4-Chlorophenyl phenyl ether	13	U	440	13
106-44-5	4-Methylphenol	12	U	440	12
100-01-6	4-Nitroaniline	17	U	440	17
100-02-7	4-Nitrophenol	210	U	880	210
83-32-9	Acenaphthene	28	J	440	11
208-96-8	Acenaphthylene	220	J	440	11
98-86-2	Acetophenone	9.5	U	440	9.5
120-12-7	Anthracene	110	J	440	41
1912-24-9	Atrazine	19	U	180	19
100-52-7	Benzaldehyde	33	U	440	33
56-55-3	Benzo[a]anthracene	100		44	36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: L1202732.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0421(g) | Date Analyzed: 04/02/2015 21:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	72		44	13
205-99-2	Benzo[b]fluoranthene	67		44	17
191-24-2	Benzo[g,h,i]perylene	25	U	440	25
207-08-9	Benzo[k]fluoranthene	23	J	44	19
111-91-1	Bis(2-chloroethoxy)methane	14	U	440	14
111-44-4	Bis(2-chloroethyl)ether	10	U	44	10
117-81-7	Bis(2-ethylhexyl) phthalate	17	U	440	17
85-68-7	Butyl benzyl phthalate	13	U	440	13
105-60-2	Caprolactam	31	U	440	31
86-74-8	Carbazole	11	U	440	11
218-01-9	Chrysene	96	J	440	12
53-70-3	Dibenz(a,h)anthracene	23	U	44	23
132-64-9	Dibenzofuran	17	J	440	13
84-66-2	Diethyl phthalate	12	U	440	12
131-11-3	Dimethyl phthalate	13	U	440	13
84-74-2	Di-n-butyl phthalate	13	U	440	13
117-84-0	Di-n-octyl phthalate	22	U	440	22
206-44-0	Fluoranthene	150	J	440	13
86-73-7	Fluorene	190	J	440	9.5
118-74-1	Hexachlorobenzene	18	U	44	18
87-68-3	Hexachlorobutadiene	12	U	88	12
77-47-4	Hexachlorocyclopentadiene	27	U	440	27
67-72-1	Hexachloroethane	16	U	44	16
193-39-5	Indeno[1,2,3-cd]pyrene	29	U	44	29
78-59-1	Isophorone	9.4	U	180	9.4
91-20-3	Naphthalene	1100		440	11
98-95-3	Nitrobenzene	14	U	44	14
621-64-7	N-Nitrosodi-n-propylamine	15	U	44	15
86-30-6	N-Nitrosodiphenylamine	40	U	440	40
87-86-5	Pentachlorophenol	53	U	350	53
85-01-8	Phenanthrene	540		440	12
108-95-2	Phenol	14	U	440	14
129-00-0	Pyrene	330	J	440	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: L1202732.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0421(g) | Date Analyzed: 04/02/2015 21:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	55		10-120
321-60-8	2-Fluorobiphenyl	72		40-109
367-12-4	2-Fluorophenol (Surr)	58		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	66		38-105
4165-62-2	Phenol-d5 (Surr)	61		41-118
1718-51-0	Terphenyl-d14 (Surr)	93		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) | Lab Sample ID: 460-92568-6

Matrix: Solid | Lab File ID: L1202732.D

Analysis Method: 8270D | Date Collected: 04/01/2015 14:30

Extract. Method: 3546 | Date Extracted: 04/02/2015 05:48

Sample wt/vol: 15.0421(g) | Date Analyzed: 04/02/2015 21:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 24.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289942 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) Lab Sample ID: 460-92355-1

Matrix: Solid Lab File ID: VF014540.D

Analysis Method: 8015D Date Collected: 03/26/2015 12:30

Sample wt/vol: 9.834(g) Date Analyzed: 04/01/2015 14:39

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 11.3 Level: (low/med) Medium

Analysis Batch No.: 289597 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	3800		1400	1400

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	110		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) Lab Sample ID: 460-92355-2

Matrix: Solid Lab File ID: VF014557.D

Analysis Method: 8015D Date Collected: 03/26/2015 13:30

Sample wt/vol: 13.312(g) Date Analyzed: 04/02/2015 10:50

Soil Aliquot Vol: 5 (mL) Dilution Factor: 2500

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 17.1 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1200000		57000	57000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	X	70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) Lab Sample ID: 460-92355-3

Matrix: Solid Lab File ID: VF014555.D

Analysis Method: 8015D Date Collected: 03/26/2015 13:45

Sample wt/vol: 12.864(g) Date Analyzed: 04/02/2015 09:57

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.3 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1200	U	1200	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	94		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 Lab Sample ID: 460-92355-4

Matrix: Solid Lab File ID: VF014558.D

Analysis Method: 8015D Date Collected: 03/26/2015 00:00

Sample wt/vol: 12.575(g) Date Analyzed: 04/02/2015 11:17

Soil Aliquot Vol: 5 (mL) Dilution Factor: 5000

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 17.2 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1700000		120000	120000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	X	70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) Lab Sample ID: 460-92355-5

Matrix: Solid Lab File ID: VF014542.D

Analysis Method: 8015D Date Collected: 03/27/2015 11:00

Sample wt/vol: 8.975(g) Date Analyzed: 04/01/2015 15:28

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 9.5 Level: (low/med) Medium

Analysis Batch No.: 289597 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	14000		1500	1500

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	115		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) Lab Sample ID: 460-92355-6

Matrix: Solid Lab File ID: VF014543.D

Analysis Method: 8015D Date Collected: 03/27/2015 12:30

Sample wt/vol: 13.594(g) Date Analyzed: 04/01/2015 15:53

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.2 Level: (low/med) Medium

Analysis Batch No.: 289597 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	8100		1100	1100

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	118		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) Lab Sample ID: 460-92355-7

Matrix: Solid Lab File ID: VF014556.D

Analysis Method: 8015D Date Collected: 03/27/2015 13:00

Sample wt/vol: 13.369(g) Date Analyzed: 04/02/2015 10:23

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 24.2 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1200	U	1200	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	85		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) Lab Sample ID: 460-92511-1

Matrix: Solid Lab File ID: IFID7520.D

Analysis Method: 8015D Date Collected: 03/30/2015 11:45

Sample wt/vol: 11.653(g) Date Analyzed: 04/03/2015 23:16

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-502.2 ID: 0.53(mm)

% Moisture: 11.2 Level: (low/med) Medium

Analysis Batch No.: 290168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1200	U	1200	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	99		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) Lab Sample ID: 460-92511-2

Matrix: Solid Lab File ID: IFID7521.D

Analysis Method: 8015D Date Collected: 03/30/2015 12:45

Sample wt/vol: 11.856(g) Date Analyzed: 04/03/2015 23:40

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-502.2 ID: 0.53(mm)

% Moisture: 11.2 Level: (low/med) Medium

Analysis Batch No.: 290168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1200	U	1200	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	101		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) Lab Sample ID: 460-92511-3

Matrix: Solid Lab File ID: IFID7522.D

Analysis Method: 8015D Date Collected: 03/30/2015 13:30

Sample wt/vol: 13.589(g) Date Analyzed: 04/04/2015 00:05

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-502.2 ID: 0.53(mm)

% Moisture: 12.3 Level: (low/med) Medium

Analysis Batch No.: 290168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1000	U	1000	1000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	105		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) Lab Sample ID: 460-92568-1

Matrix: Solid Lab File ID: VF014561.D

Analysis Method: 8015D Date Collected: 04/01/2015 07:45

Sample wt/vol: 10.873(g) Date Analyzed: 04/02/2015 12:34

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 14.3 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1300	U	1300	1300

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	112		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) Lab Sample ID: 460-92568-2

Matrix: Solid Lab File ID: VF014564.D

Analysis Method: 8015D Date Collected: 04/01/2015 08:15

Sample wt/vol: 10.498(g) Date Analyzed: 04/02/2015 13:49

Soil Aliquot Vol: 5 (mL) Dilution Factor: 2500

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.7 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	2500000		74000	74000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	X	70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) Lab Sample ID: 460-92568-3

Matrix: Solid Lab File ID: VF014562.D

Analysis Method: 8015D Date Collected: 04/01/2015 09:45

Sample wt/vol: 10.293(g) Date Analyzed: 04/02/2015 12:59

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 12.1 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1400	U	1400	1400

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	106		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) Lab Sample ID: 460-92568-4

Matrix: Solid Lab File ID: VF014568.D

Analysis Method: 8015D Date Collected: 03/31/2015 14:30

Sample wt/vol: 12.721(g) Date Analyzed: 04/02/2015 15:36

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 16.2 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1900		1200	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	114		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) Lab Sample ID: 460-92568-5

Matrix: Solid Lab File ID: IFID7526.D

Analysis Method: 8015D Date Collected: 04/01/2015 14:30

Sample wt/vol: 13.571(g) Date Analyzed: 04/04/2015 01:45

Soil Aliquot Vol: 5 (mL) Dilution Factor: 100

Soil Extract Vol.: 10(mL) GC Column: Rtx-502.2 ID: 0.53(mm)

% Moisture: 12.8 Level: (low/med) Medium

Analysis Batch No.: 290168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	34000		2100	2100

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	86		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) Lab Sample ID: 460-92568-6

Matrix: Solid Lab File ID: VF014563.D

Analysis Method: 8015D Date Collected: 04/01/2015 14:30

Sample wt/vol: 9.813(g) Date Analyzed: 04/02/2015 13:24

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 24.5 Level: (low/med) Medium

Analysis Batch No.: 289813 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	14000		1700	1700

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	123		70-130

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (8-9) Lab Sample ID: 460-92355-1

Matrix: Solid Lab File ID: 3F006300.D

Analysis Method: 8015D Date Collected: 03/26/2015 12:30

Extraction Method: 3546 Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0361(g) Date Analyzed: 04/01/2015 14:06

Con. Extract Vol.: 1(mL) Dilution Factor: 50

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 11.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	3500		490	62

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (45-48) | Lab Sample ID: 460-92355-2

Matrix: Solid | Lab File ID: 3F006301.D

Analysis Method: 8015D | Date Collected: 03/26/2015 13:30

Extraction Method: 3546 | Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0228(g) | Date Analyzed: 04/01/2015 14:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 100

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	7700	J	1000	130

Fd

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I

GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB43 (49-50) Lab Sample ID: 460-92355-3

Matrix: Solid Lab File ID: 3F006290.D

Analysis Method: 8015D Date Collected: 03/26/2015 13:45

Extraction Method: 3546 Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0144(g) Date Analyzed: 04/01/2015 11:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
STL00816	C10-C44	13	J-	11	1.3	ms

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: DUPE-032615 | Lab Sample ID: 460-92355-4

Matrix: Solid | Lab File ID: 3F006295.D

Analysis Method: 8015D | Date Collected: 03/26/2015 00:00

Extraction Method: 3546 | Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0414(g) | Date Analyzed: 04/01/2015 12:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
STL00816	C10-C44	3000	J	100	13	FD

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (9-10) Lab Sample ID: 460-92355-5

Matrix: Solid Lab File ID: 3F006296.D

Analysis Method: 8015D Date Collected: 03/27/2015 11:00

Extraction Method: 3546 Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0323(g) Date Analyzed: 04/01/2015 12:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 9.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	160		9.6	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (38-40) | Lab Sample ID: 460-92355-6

Matrix: Solid | Lab File ID: 3F006297.D

Analysis Method: 8015D | Date Collected: 03/27/2015 12:30

Extraction Method: 3546 | Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0211(g) | Date Analyzed: 04/01/2015 13:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	19		11	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB44 (49-50) | Lab Sample ID: 460-92355-7

Matrix: Solid | Lab File ID: 3F006298.D

Analysis Method: 8015D | Date Collected: 03/27/2015 13:00

Extraction Method: 3546 | Date Extracted: 03/31/2015 14:44

Sample wt/vol: 15.0144(g) | Date Analyzed: 04/01/2015 13:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 24.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289512 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	1.4	U	11	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(9-10) | Lab Sample ID: 460-92511-1

Matrix: Solid | Lab File ID: 3F006322.D

Analysis Method: 8015D | Date Collected: 03/30/2015 11:45

Extraction Method: 3546 | Date Extracted: 04/01/2015 15:29

Sample wt/vol: 15.0112(g) | Date Analyzed: 04/02/2015 09:36

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 289806 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	42		9.8	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(35-37.5) Lab Sample ID: 460-92511-2

Matrix: Solid Lab File ID: 3F006323.D

Analysis Method: 8015D Date Collected: 03/30/2015 12:45

Extraction Method: 3546 Date Extracted: 04/01/2015 15:29

Sample wt/vol: 15.0432(g) Date Analyzed: 04/02/2015 09:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 11.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289806 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	22		9.8	1.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB42(49-50) Lab Sample ID: 460-92511-3

Matrix: Solid Lab File ID: 3F006314.D

Analysis Method: 8015D Date Collected: 03/30/2015 13:30

Extraction Method: 3546 Date Extracted: 04/01/2015 15:29

Sample wt/vol: 15.0332(g) Date Analyzed: 04/02/2015 07:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 12.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 289806 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	1.3	U	9.9	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (9-10) | Lab Sample ID: 460-92568-1

Matrix: Solid | Lab File ID: 3F006361.D

Analysis Method: 8015D | Date Collected: 04/01/2015 07:45

Extraction Method: 3546 | Date Extracted: 04/02/2015 12:35

Sample wt/vol: 15.0006(g) | Date Analyzed: 04/03/2015 13:56

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	6000		510	64

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (20-23.5) Lab Sample ID: 460-92568-2

Matrix: Solid Lab File ID: 3F006362.D

Analysis Method: 8015D Date Collected: 04/01/2015 08:15

Extraction Method: 3546 Date Extracted: 04/02/2015 12:35

Sample wt/vol: 14.9562(g) Date Analyzed: 04/03/2015 14:08

Con. Extract Vol.: 1(mL) Dilution Factor: 50

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	5800		540	69

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I

GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB40 (50-55) | Lab Sample ID: 460-92568-3

Matrix: Solid | Lab File ID: 3F006357.D

Analysis Method: 8015D | Date Collected: 04/01/2015 09:45

Extraction Method: 3546 | Date Extracted: 04/02/2015 12:35

Sample wt/vol: 14.9754(g) | Date Analyzed: 04/03/2015 13:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	130		9.9	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		45-132

FORM I

GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (5-10) Lab Sample ID: 460-92568-4

Matrix: Solid Lab File ID: 3F006338.D

Analysis Method: 8015D Date Collected: 03/31/2015 14:30

Extraction Method: 3546 Date Extracted: 04/02/2015 12:35

Sample wt/vol: 15.0087(g) Date Analyzed: 04/03/2015 09:04

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 16.2 GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	3900		100	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (35-37) | Lab Sample ID: 460-92568-5

Matrix: Solid | Lab File ID: 3F006363.D

Analysis Method: 8015D | Date Collected: 04/01/2015 14:30

Extraction Method: 3546 | Date Extracted: 04/02/2015 12:35

Sample wt/vol: 15.0012(g) | Date Analyzed: 04/03/2015 14:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 12.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	1300		100	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: SB41 (38-39) Lab Sample ID: 460-92568-6

Matrix: Solid Lab File ID: 3F006359.D

Analysis Method: 8015D Date Collected: 04/01/2015 14:30

Extraction Method: 3546 Date Extracted: 04/02/2015 12:35

Sample wt/vol: 15.0112(g) Date Analyzed: 04/03/2015 13:29

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 24.5 GPC Cleanup:(Y/N) N

Analysis Batch No.: 290109 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	55		12	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		45-132

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB43 (8-9)
Lab Sample ID: 460-92355-1
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/26/2015 12:30
Reporting Basis: DRY
Date Received: 03/27/2015 18:00
% Solids: 88.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.41	2.1	0.41	mg/Kg	U		4	6010C
7429-90-5	Aluminum	5930	42.1	23.3	mg/Kg			4	6010C
7440-38-2	Arsenic	14.8	3.2	0.86	mg/Kg			4	6010C
7440-39-3	Barium	317	42.1	1.8	mg/Kg			4	6010C
7440-41-7	Beryllium	0.35	0.42	0.29	mg/Kg	J		4	6010C
7440-70-2	Calcium	12500	1050	80.6	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	1.8	0.84	0.30	mg/Kg			4	6010C
7440-48-4	Cobalt	7.6	10.5	0.95	mg/Kg	J		4	6010C
7440-47-3	Chromium	22.0	2.1	0.84	mg/Kg			4	6010C
7440-50-8	Copper	143	5.3	1.9	mg/Kg			4	6010C
7439-89-6	Iron	41900	79.0	65.6	mg/Kg			10	6010C
7440-09-7	Potassium	795	1050	29.1	mg/Kg	J		4	6010C
7439-95-4	Magnesium	2320	1050	70.0	mg/Kg			4	6010C
7439-96-5	Manganese	352	3.2	0.91	mg/Kg			4	6010C
7440-23-5	Sodium	243	1050	79.7	mg/Kg	J		4	6010C
7440-02-0	Nickel	40.1	8.4	1.9	mg/Kg			4	6010C
7439-92-1	Lead	638	2.1	0.87	mg/Kg			4	6010C
7440-36-0	Antimony	2.3	4.2	1.6	mg/Kg	J	MS	4	6010C
7782-49-2	Selenium	1.2	4.2	1.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.1	4.2	2.1	mg/Kg	U		4	6010C
7440-62-2	Vanadium	27.5	10.5	0.87	mg/Kg			4	6010C
7440-66-6	Zinc	738	6.3	1.8	mg/Kg			4	6010C
7439-97-6	Mercury	0.36	0.019	0.013	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB43 (45-48)
Lab Sample ID: 460-92355-2
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/26/2015 13:30
Reporting Basis: DRY
Date Received: 03/27/2015 18:00
% Solids: 82.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.41	2.1	0.41	mg/Kg	U		4	6010C
7429-90-5	Aluminum	2730	42.0	23.2	mg/Kg			4	6010C
7440-38-2	Arsenic	1.3	3.1	0.86	mg/Kg	J		4	6010C
7440-39-3	Barium	11.7	42.0	1.8	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.29	0.42	0.29	mg/Kg	U		4	6010C
7440-70-2	Calcium	2880	1050	80.2	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.30	0.84	0.30	mg/Kg	U		4	6010C
7440-48-4	Cobalt	3.0	10.5	0.95	mg/Kg	J		4	6010C
7440-47-3	Chromium	8.5	2.1	0.84	mg/Kg			4	6010C
7440-50-8	Copper	6.0	5.2	1.8	mg/Kg			4	6010C
7439-89-6	Iron	8670	31.5	26.1	mg/Kg			4	6010C
7440-09-7	Potassium	574	1050	29.0	mg/Kg	J		4	6010C
7439-95-4	Magnesium	2460	1050	69.6	mg/Kg			4	6010C
7439-96-5	Manganese	90.4	3.1	0.90	mg/Kg			4	6010C
7440-23-5	Sodium	377	1050	79.3	mg/Kg	J		4	6010C
7440-02-0	Nickel	7.5	8.4	1.9	mg/Kg	J		4	6010C
7439-92-1	Lead	2.6	2.1	0.86	mg/Kg			4	6010C
7440-36-0	Antimony	1.6	4.2	1.6	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.2	4.2	1.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.1	4.2	2.1	mg/Kg	U		4	6010C
7440-62-2	Vanadium	13.5	10.5	0.87	mg/Kg			4	6010C
7440-66-6	Zinc	15.3	6.3	1.8	mg/Kg			4	6010C
7439-97-6	Mercury	0.013	0.019	0.013	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB43 (49-50) Lab Sample ID: 460-92355-3

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG ID.: 92355, 92511, 92568

Matrix: Solid Date Sampled: 03/26/2015 13:45

Reporting Basis: DRY Date Received: 03/27/2015 18:00

% Solids: 81.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.45	2.3	0.45	mg/Kg	U		4	6010C
7429-90-5	Aluminum	9130	46.2	25.5	mg/Kg			4	6010C
7440-38-2	Arsenic	1.8	3.5	0.95	mg/Kg	J		4	6010C
7440-39-3	Barium	87.9	46.2	2.0	mg/Kg			4	6010C
7440-41-7	Beryllium	0.31	0.46	0.31	mg/Kg	U		4	6010C
7440-70-2	Calcium	13900	1150	88.3	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.33	0.92	0.33	mg/Kg	U		4	6010C
7440-48-4	Cobalt	9.1	11.5	1.0	mg/Kg	J		4	6010C
7440-47-3	Chromium	24.2	2.3	0.93	mg/Kg			4	6010C
7440-50-8	Copper	20.3	5.8	2.0	mg/Kg			4	6010C
7439-89-6	Iron	20900	34.6	28.8	mg/Kg			4	6010C
7440-09-7	Potassium	3060	1150	31.9	mg/Kg			4	6010C
7439-95-4	Magnesium	9600	1150	76.7	mg/Kg			4	6010C
7439-96-5	Manganese	423	3.5	1.0	mg/Kg			4	6010C
7440-23-5	Sodium	1060	1150	87.3	mg/Kg	J		4	6010C
7440-02-0	Nickel	21.5	9.2	2.1	mg/Kg			4	6010C
7439-92-1	Lead	6.1	2.3	0.95	mg/Kg			4	6010C
7440-36-0	Antimony	1.7	4.6	1.7	mg/Kg	UJ	ms	4	6010C
7782-49-2	Selenium	1.3	4.6	1.3	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.3	4.6	2.3	mg/Kg	U		4	6010C
7440-62-2	Vanadium	32.3	11.5	0.96	mg/Kg			4	6010C
7440-66-6	Zinc	47.6	6.9	2.0	mg/Kg			4	6010C
7439-97-6	Mercury	0.013	0.019	0.013	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUPE-032615 Lab Sample ID: 460-92355-4

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG ID.: 92355, 92511, 92568

Matrix: Solid Date Sampled: 03/26/2015 00:00

Reporting Basis: DRY Date Received: 03/27/2015 18:00

% Solids: 82.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.46	2.4	0.46	mg/Kg	U		4	6010C
7429-90-5	Aluminum	2650	47.4	26.2	mg/Kg			4	6010C
7440-38-2	Arsenic	1.3	3.6	0.97	mg/Kg	J		4	6010C
7440-39-3	Barium	12.4	47.4	2.0	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.32	0.47	0.32	mg/Kg	U		4	6010C
7440-70-2	Calcium	1730	1180	90.6	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.34	0.95	0.34	mg/Kg	U		4	6010C
7440-48-4	Cobalt	3.1	11.8	1.1	mg/Kg	J		4	6010C
7440-47-3	Chromium	7.4	2.4	0.95	mg/Kg			4	6010C
7440-50-8	Copper	6.7	5.9	2.1	mg/Kg			4	6010C
7439-89-6	Iron	6560	35.5	29.5	mg/Kg			4	6010C
7440-09-7	Potassium	552	1180	32.7	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1830	1180	78.6	mg/Kg			4	6010C
7439-96-5	Manganese	62.2	3.6	1.0	mg/Kg			4	6010C
7440-23-5	Sodium	426	1180	89.5	mg/Kg	J		4	6010C
7440-02-0	Nickel	7.1	9.5	2.1	mg/Kg	J		4	6010C
7439-92-1	Lead	2.4	2.4	0.97	mg/Kg			4	6010C
7440-36-0	Antimony	1.8	4.7	1.8	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.3	4.7	1.3	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.3	4.7	2.3	mg/Kg	U		4	6010C
7440-62-2	Vanadium	10.8	11.8	0.98	mg/Kg	J		4	6010C
7440-66-6	Zinc	14.8	7.1	2.0	mg/Kg			4	6010C
7439-97-6	Mercury	0.014	0.019	0.014	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB44 (9-10)
Lab Sample ID: 460-92355-5
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/27/2015 11:00
Reporting Basis: DRY
Date Received: 03/27/2015 18:00
% Solids: 90.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.40	2.1	0.40	mg/Kg	U		4	6010C
7429-90-5	Aluminum	7020	41.3	22.8	mg/Kg			4	6010C
7440-38-2	Arsenic	6.4	3.1	0.85	mg/Kg			4	6010C
7440-39-3	Barium	125	41.3	1.8	mg/Kg			4	6010C
7440-41-7	Beryllium	0.67	0.41	0.28	mg/Kg			4	6010C
7440-70-2	Calcium	7920	1030	79.0	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.29	0.83	0.29	mg/Kg	U		4	6010C
7440-48-4	Cobalt	8.3	10.3	0.93	mg/Kg	J		4	6010C
7440-47-3	Chromium	13.2	2.1	0.83	mg/Kg			4	6010C
7440-50-8	Copper	26.0	5.2	1.8	mg/Kg			4	6010C
7439-89-6	Iron	14700	31.0	25.7	mg/Kg			4	6010C
7440-09-7	Potassium	1560	1030	28.5	mg/Kg			4	6010C
7439-95-4	Magnesium	2920	1030	68.6	mg/Kg			4	6010C
7439-96-5	Manganese	334	3.1	0.89	mg/Kg			4	6010C
7440-23-5	Sodium	249	1030	78.1	mg/Kg	J		4	6010C
7440-02-0	Nickel	21.0	8.3	1.8	mg/Kg			4	6010C
7439-92-1	Lead	90.0	2.1	0.85	mg/Kg			4	6010C
7440-36-0	Antimony	1.6	4.1	1.6	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.2	4.1	1.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.0	4.1	2.0	mg/Kg	U		4	6010C
7440-62-2	Vanadium	19.9	10.3	0.85	mg/Kg			4	6010C
7440-66-6	Zinc	65.1	6.2	1.8	mg/Kg			4	6010C
7439-97-6	Mercury	0.023	0.018	0.013	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB44 (38-40)
Lab Sample ID: 460-92355-6
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/27/2015 12:30
Reporting Basis: DRY
Date Received: 03/27/2015 18:00
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.44	2.2	0.44	mg/Kg	U		4	6010C
7429-90-5	Aluminum	6160	44.9	24.8	mg/Kg			4	6010C
7440-38-2	Arsenic	0.97	3.4	0.92	mg/Kg	J		4	6010C
7440-39-3	Barium	57.1	44.9	1.9	mg/Kg			4	6010C
7440-41-7	Beryllium	0.31	0.45	0.31	mg/Kg	U		4	6010C
7440-70-2	Calcium	7280	1120	85.8	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.32	0.90	0.32	mg/Kg	U		4	6010C
7440-48-4	Cobalt	6.2	11.2	1.0	mg/Kg	J		4	6010C
7440-47-3	Chromium	15.8	2.2	0.90	mg/Kg			4	6010C
7440-50-8	Copper	11.3	5.6	2.0	mg/Kg			4	6010C
7439-89-6	Iron	17500	33.7	27.9	mg/Kg			4	6010C
7440-09-7	Potassium	1780	1120	31.0	mg/Kg			4	6010C
7439-95-4	Magnesium	6690	1120	74.5	mg/Kg			4	6010C
7439-96-5	Manganese	365	3.4	0.97	mg/Kg			4	6010C
7440-23-5	Sodium	545	1120	84.8	mg/Kg	J		4	6010C
7440-02-0	Nickel	15.7	9.0	2.0	mg/Kg			4	6010C
7439-92-1	Lead	5.2	2.2	0.92	mg/Kg			4	6010C
7440-36-0	Antimony	1.7	4.5	1.7	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.3	4.5	1.3	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.2	4.5	2.2	mg/Kg	U		4	6010C
7440-62-2	Vanadium	20.7	11.2	0.93	mg/Kg			4	6010C
7440-66-6	Zinc	36.6	6.7	1.9	mg/Kg			4	6010C
7439-97-6	Mercury	0.014	0.019	0.014	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB44 (49-50)
Lab Sample ID: 460-92355-7
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/27/2015 13:00
Reporting Basis: DRY
Date Received: 03/27/2015 18:00
% Solids: 75.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.49	2.5	0.49	mg/Kg	U		4	6010C
7429-90-5	Aluminum	15300	50.2	27.8	mg/Kg			4	6010C
7440-38-2	Arsenic	2.7	3.8	1.0	mg/Kg	J		4	6010C
7440-39-3	Barium	121	50.2	2.2	mg/Kg			4	6010C
7440-41-7	Beryllium	0.34	0.50	0.34	mg/Kg	U		4	6010C
7440-70-2	Calcium	11800	1260	96.1	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.36	1.0	0.36	mg/Kg	U		4	6010C
7440-48-4	Cobalt	13.2	12.6	1.1	mg/Kg			4	6010C
7440-47-3	Chromium	39.9	2.5	1.0	mg/Kg			4	6010C
7440-50-8	Copper	29.2	6.3	2.2	mg/Kg			4	6010C
7439-89-6	Iron	30900	37.7	31.3	mg/Kg			4	6010C
7440-09-7	Potassium	5030	1260	34.7	mg/Kg			4	6010C
7439-95-4	Magnesium	12400	1260	83.4	mg/Kg			4	6010C
7439-96-5	Manganese	557	3.8	1.1	mg/Kg			4	6010C
7440-23-5	Sodium	2000	1260	94.9	mg/Kg			4	6010C
7440-02-0	Nickel	34.9	10.0	2.2	mg/Kg			4	6010C
7439-92-1	Lead	10	2.5	1.0	mg/Kg			4	6010C
7440-36-0	Antimony	1.9	5.0	1.9	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.4	5.0	1.4	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.5	5.0	2.5	mg/Kg	U		4	6010C
7440-62-2	Vanadium	47.7	12.6	1.0	mg/Kg			4	6010C
7440-66-6	Zinc	73.6	7.5	2.1	mg/Kg			4	6010C
7439-97-6	Mercury	0.014	0.020	0.014	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB42(9-10) Lab Sample ID: 460-92511-1

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG ID.: 92355, 92511, 92568

Matrix: Solid Date Sampled: 03/30/2015 11:45

Reporting Basis: DRY Date Received: 03/31/2015 18:00

% Solids: 88.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.43	2.2	0.43	mg/Kg	U		4	6010C
7429-90-5	Aluminum	2630	44.2	24.4	mg/Kg			4	6010C
7440-38-2	Arsenic	3.9	3.3	0.90	mg/Kg			4	6010C
7440-39-3	Barium	24.7	44.2	1.9	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.30	0.44	0.30	mg/Kg	U		4	6010C
7440-70-2	Calcium	16900	1100	84.5	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.31	0.88	0.31	mg/Kg	U		4	6010C
7440-48-4	Cobalt	4.3	11.0	1.0	mg/Kg	J		4	6010C
7440-47-3	Chromium	7.0	2.2	0.88	mg/Kg			4	6010C
7440-50-8	Copper	5.1	5.5	1.9	mg/Kg	J		4	6010C
7439-89-6	Iron	9540	33.1	27.5	mg/Kg			4	6010C
7440-09-7	Potassium	455	1100	30.5	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1770	1100	73.3	mg/Kg			4	6010C
7439-96-5	Manganese	234	3.3	0.95	mg/Kg			4	6010C
7440-23-5	Sodium	161	1100	83.5	mg/Kg	J		4	6010C
7440-02-0	Nickel	9.0	8.8	2.0	mg/Kg			4	6010C
7439-92-1	Lead	7.6	2.2	0.91	mg/Kg			4	6010C
7440-36-0	Antimony	1.7	4.4	1.7	mg/Kg	UJ	ms	4	6010C
7782-49-2	Selenium	1.3	4.4	1.3	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.2	4.4	2.2	mg/Kg	U		4	6010C
7440-62-2	Vanadium	12.8	11.0	0.91	mg/Kg			4	6010C
7440-66-6	Zinc	20.3	6.6	1.9	mg/Kg			4	6010C
7439-97-6	Mercury	0.014	0.017	0.012	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB42(35-37.5) Lab Sample ID: 460-92511-2

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG ID.: 92355, 92511, 92568

Matrix: Solid Date Sampled: 03/30/2015 12:45

Reporting Basis: DRY Date Received: 03/31/2015 18:00

% Solids: 88.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.38	2.0	0.38	mg/Kg	U		4	6010C
7429-90-5	Aluminum	3690	39.2	21.6	mg/Kg			4	6010C
7440-38-2	Arsenic	1.4	2.9	0.80	mg/Kg	J		4	6010C
7440-39-3	Barium	27.8	39.2	1.7	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.27	0.39	0.27	mg/Kg	U		4	6010C
7440-70-2	Calcium	1210	979	74.9	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.28	0.78	0.28	mg/Kg	U		4	6010C
7440-48-4	Cobalt	3.6	9.8	0.88	mg/Kg	J		4	6010C
7440-47-3	Chromium	11.0	2.0	0.78	mg/Kg			4	6010C
7440-50-8	Copper	9.9	4.9	1.7	mg/Kg			4	6010C
7439-89-6	Iron	13900	29.4	24.4	mg/Kg			4	6010C
7440-09-7	Potassium	860	979	27.0	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1830	979	65.0	mg/Kg			4	6010C
7439-96-5	Manganese	210	2.9	0.84	mg/Kg			4	6010C
7440-23-5	Sodium	151	979	74.0	mg/Kg	J		4	6010C
7440-02-0	Nickel	9.1	7.8	1.8	mg/Kg			4	6010C
7439-92-1	Lead	4.1	2.0	0.80	mg/Kg			4	6010C
7440-36-0	Antimony	1.5	3.9	1.5	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.1	3.9	1.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	1.9	3.9	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	18.6	9.8	0.81	mg/Kg			4	6010C
7440-66-6	Zinc	19.4	5.9	1.7	mg/Kg			4	6010C
7439-97-6	Mercury	0.012	0.017	0.012	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB42(49-50) Lab Sample ID: 460-92511-3

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG ID.: 92355, 92511, 92568

Matrix: Solid Date Sampled: 03/30/2015 13:30

Reporting Basis: DRY Date Received: 03/31/2015 18:00

% Solids: 87.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.40	2.1	0.40	mg/Kg	U		4	6010C
7429-90-5	Aluminum	3230	41.4	22.9	mg/Kg			4	6010C
7440-38-2	Arsenic	0.85	3.1	0.85	mg/Kg	U		4	6010C
7440-39-3	Barium	25.1	41.4	1.8	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.28	0.41	0.28	mg/Kg	U		4	6010C
7440-70-2	Calcium	1050	1040	79.3	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.29	0.83	0.29	mg/Kg	U		4	6010C
7440-48-4	Cobalt	2.3	10.4	0.93	mg/Kg	J		4	6010C
7440-47-3	Chromium	6.4	2.1	0.83	mg/Kg			4	6010C
7440-50-8	Copper	8.2	5.2	1.8	mg/Kg			4	6010C
7439-89-6	Iron	8000	31.1	25.8	mg/Kg			4	6010C
7440-09-7	Potassium	460	1040	28.6	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1470	1040	68.8	mg/Kg			4	6010C
7439-96-5	Manganese	93.0	3.1	0.89	mg/Kg			4	6010C
7440-23-5	Sodium	150	1040	78.3	mg/Kg	J		4	6010C
7440-02-0	Nickel	6.3	8.3	1.9	mg/Kg	J		4	6010C
7439-92-1	Lead	2.5	2.1	0.85	mg/Kg			4	6010C
7440-36-0	Antimony	1.6	4.1	1.6	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.2	4.1	1.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.0	4.1	2.0	mg/Kg	U		4	6010C
7440-62-2	Vanadium	8.5	10.4	0.86	mg/Kg	J		4	6010C
7440-66-6	Zinc	13.2	6.2	1.8	mg/Kg			4	6010C
7439-97-6	Mercury	0.012	0.016	0.012	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB40 (9-10)
Lab Sample ID: 460-92568-1
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 04/01/2015 07:45
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 85.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.38	2.0	0.38	mg/Kg	U		4	6010C
7429-90-5	Aluminum	9550	39.2	21.7	mg/Kg			4	6010C
7440-38-2	Arsenic	2.9	2.9	0.80	mg/Kg			4	6010C
7440-39-3	Barium	45.8	39.2	1.7	mg/Kg			4	6010C
7440-41-7	Beryllium	0.27	0.39	0.27	mg/Kg	U		4	6010C
7440-70-2	Calcium	1070	981	75.0	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.28	0.78	0.28	mg/Kg	U		4	6010C
7440-48-4	Cobalt	7.9	9.8	0.88	mg/Kg	J		4	6010C
7440-47-3	Chromium	18.7	2.0	0.79	mg/Kg			4	6010C
7440-50-8	Copper	23.6	4.9	1.7	mg/Kg			4	6010C
7439-89-6	Iron	15900	29.4	24.4	mg/Kg			4	6010C
7440-09-7	Potassium	890	981	27.1	mg/Kg	J		4	6010C
7439-95-4	Magnesium	2040	981	65.1	mg/Kg			4	6010C
7439-96-5	Manganese	203	2.9	0.85	mg/Kg			4	6010C
7440-23-5	Sodium	84.0	981	74.2	mg/Kg	J		4	6010C
7440-02-0	Nickel	15.5	7.8	1.8	mg/Kg			4	6010C
7439-92-1	Lead	28.7	2.0	0.81	mg/Kg			4	6010C
7440-36-0	Antimony	1.5	3.9	1.5	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.1	3.9	1.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	1.9	3.9	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	26.0	9.8	0.81	mg/Kg			4	6010C
7440-66-6	Zinc	57.6	5.9	1.7	mg/Kg			4	6010C
7439-97-6	Mercury	0.78	0.019	0.013	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB40 (20-23.5)
Lab Sample ID: 460-92568-2
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 04/01/2015 08:15
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 80.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.39	2.0	0.39	mg/Kg	U		4	6010C
7429-90-5	Aluminum	3120	39.9	22.0	mg/Kg			4	6010C
7440-38-2	Arsenic	1.5	3.0	0.82	mg/Kg	J		4	6010C
7440-39-3	Barium	12.9	39.9	1.7	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.27	0.40	0.27	mg/Kg	U		4	6010C
7440-70-2	Calcium	783	997	76.3	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.28	0.80	0.28	mg/Kg	U		4	6010C
7440-48-4	Cobalt	3.1	10	0.90	mg/Kg	J		4	6010C
7440-47-3	Chromium	10.7	2.0	0.80	mg/Kg			4	6010C
7440-50-8	Copper	4.6	5.0	1.8	mg/Kg	J		4	6010C
7439-89-6	Iron	5080	29.9	24.8	mg/Kg			4	6010C
7440-09-7	Potassium	401	997	27.5	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1140	997	66.2	mg/Kg			4	6010C
7439-96-5	Manganese	50.1	3.0	0.86	mg/Kg			4	6010C
7440-23-5	Sodium	179	997	75.4	mg/Kg	J		4	6010C
7440-02-0	Nickel	7.3	8.0	1.8	mg/Kg	J		4	6010C
7439-92-1	Lead	3.1	2.0	0.82	mg/Kg			4	6010C
7440-36-0	Antimony	1.5	4.0	1.5	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.1	4.0	1.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.0	4.0	2.0	mg/Kg	U		4	6010C
7440-62-2	Vanadium	10.0	10	0.82	mg/Kg			4	6010C
7440-66-6	Zinc	27.1	6.0	1.7	mg/Kg			4	6010C
7439-97-6	Mercury	0.015	0.021	0.015	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB40 (50-55)
Lab Sample ID: 460-92568-3
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 04/01/2015 09:45
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 87.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.32	1.6	0.32	mg/Kg	U		4	6010C
7429-90-5	Aluminum	2950	33.0	18.2	mg/Kg			4	6010C
7440-38-2	Arsenic	0.68	2.5	0.68	mg/Kg	U		4	6010C
7440-39-3	Barium	10.5	33.0	1.4	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.22	0.33	0.22	mg/Kg	U		4	6010C
7440-70-2	Calcium	1570	824	63.1	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.23	0.66	0.23	mg/Kg	U		4	6010C
7440-48-4	Cobalt	2.3	8.2	0.74	mg/Kg	J		4	6010C
7440-47-3	Chromium	6.4	1.6	0.66	mg/Kg			4	6010C
7440-50-8	Copper	12.4	4.1	1.5	mg/Kg			4	6010C
7439-89-6	Iron	6150	24.7	20.5	mg/Kg			4	6010C
7440-09-7	Potassium	349	824	22.8	mg/Kg	J		4	6010C
7439-95-4	Magnesium	1260	824	54.7	mg/Kg			4	6010C
7439-96-5	Manganese	64.5	2.5	0.71	mg/Kg			4	6010C
7440-23-5	Sodium	366	824	62.3	mg/Kg	J		4	6010C
7440-02-0	Nickel	5.1	6.6	1.5	mg/Kg	J		4	6010C
7439-92-1	Lead	2.9	1.6	0.68	mg/Kg			4	6010C
7440-36-0	Antimony	1.2	3.3	1.2	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	0.94	3.3	0.94	mg/Kg	U		4	6010C
7440-28-0	Thallium	1.6	3.3	1.6	mg/Kg	U		4	6010C
7440-62-2	Vanadium	10	8.2	0.68	mg/Kg			4	6010C
7440-66-6	Zinc	7.5	4.9	1.4	mg/Kg			4	6010C
7439-97-6	Mercury	0.013	0.018	0.013	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB41 (5-10)
Lab Sample ID: 460-92568-4
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 03/31/2015 14:30
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 83.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.41	2.1	0.41	mg/Kg	U		4	6010C
7429-90-5	Aluminum	9610	42.6	23.5	mg/Kg			4	6010C
7440-38-2	Arsenic	7.2	3.2	0.87	mg/Kg			4	6010C
7440-39-3	Barium	146	42.6	1.8	mg/Kg			4	6010C
7440-41-7	Beryllium	0.29	0.43	0.29	mg/Kg	U		4	6010C
7440-70-2	Calcium	12500	1070	81.5	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.30	0.85	0.30	mg/Kg	U		4	6010C
7440-48-4	Cobalt	8.6	10.7	0.96	mg/Kg	J		4	6010C
7440-47-3	Chromium	35.8	2.1	0.85	mg/Kg			4	6010C
7440-50-8	Copper	136	5.3	1.9	mg/Kg			4	6010C
7439-89-6	Iron	23600	32.0	26.5	mg/Kg			4	6010C
7440-09-7	Potassium	1180	1070	29.4	mg/Kg			4	6010C
7439-95-4	Magnesium	4500	1070	70.7	mg/Kg			4	6010C
7439-96-5	Manganese	547	3.2	0.92	mg/Kg			4	6010C
7440-23-5	Sodium	174	1070	80.5	mg/Kg	J		4	6010C
7440-02-0	Nickel	17.9	8.5	1.9	mg/Kg			4	6010C
7439-92-1	Lead	406	2.1	0.87	mg/Kg			4	6010C
7440-36-0	Antimony	3.3	4.3	1.6	mg/Kg	J	MS	4	6010C
7782-49-2	Selenium	1.2	4.3	1.2	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.1	4.3	2.1	mg/Kg	U		4	6010C
7440-62-2	Vanadium	32.3	10.7	0.88	mg/Kg			4	6010C
7440-66-6	Zinc	350	6.4	1.8	mg/Kg			4	6010C
7439-97-6	Mercury	12.8	0.51	0.36	mg/Kg			25	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB41 (35-37)
Lab Sample ID: 460-92568-5
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 04/01/2015 14:30
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 87.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.35	1.8	0.35	mg/Kg	U		4	6010C
7429-90-5	Aluminum	8800	36.1	20.0	mg/Kg			4	6010C
7440-38-2	Arsenic	1.8	2.7	0.74	mg/Kg	J		4	6010C
7440-39-3	Barium	66.2	36.1	1.6	mg/Kg			4	6010C
7440-41-7	Beryllium	0.25	0.36	0.25	mg/Kg	U		4	6010C
7440-70-2	Calcium	3190	903	69.1	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.26	0.72	0.26	mg/Kg	U		4	6010C
7440-48-4	Cobalt	8.0	9.0	0.81	mg/Kg	J		4	6010C
7440-47-3	Chromium	23.0	1.8	0.72	mg/Kg			4	6010C
7440-50-8	Copper	16.5	4.5	1.6	mg/Kg			4	6010C
7439-89-6	Iron	22400	27.1	22.5	mg/Kg			4	6010C
7440-09-7	Potassium	2600	903	24.9	mg/Kg			4	6010C
7439-95-4	Magnesium	5490	903	59.9	mg/Kg			4	6010C
7439-96-5	Manganese	266	2.7	0.78	mg/Kg			4	6010C
7440-23-5	Sodium	610	903	68.3	mg/Kg	J		4	6010C
7440-02-0	Nickel	20.4	7.2	1.6	mg/Kg			4	6010C
7439-92-1	Lead	6.3	1.8	0.74	mg/Kg			4	6010C
7440-36-0	Antimony	1.4	3.6	1.4	mg/Kg	UJ	MS	4	6010C
7782-49-2	Selenium	1.0	3.6	1.0	mg/Kg	U		4	6010C
7440-28-0	Thallium	1.8	3.6	1.8	mg/Kg	U		4	6010C
7440-62-2	Vanadium	30.9	9.0	0.75	mg/Kg			4	6010C
7440-66-6	Zinc	43.5	5.4	1.5	mg/Kg			4	6010C
7439-97-6	Mercury	0.016	0.019	0.014	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB41 (38-39)
Lab Sample ID: 460-92568-6
Lab Name: TestAmerica Edison
Job No.: 460-92355-1
SDG ID.: 92355, 92511, 92568
Matrix: Solid
Date Sampled: 04/01/2015 14:30
Reporting Basis: DRY
Date Received: 04/01/2015 17:50
% Solids: 75.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.39	2.0	0.39	mg/Kg	U		4	6010C
7429-90-5	Aluminum	27200	40.1	22.2	mg/Kg			4	6010C
7440-38-2	Arsenic	5.5	3.0	0.82	mg/Kg			4	6010C
7440-39-3	Barium	294	40.1	1.7	mg/Kg			4	6010C
7440-41-7	Beryllium	0.27	0.40	0.27	mg/Kg	U		4	6010C
7440-70-2	Calcium	11000	1000	76.7	mg/Kg	J	RPD	4	6010C
7440-43-9	Cadmium	0.28	0.80	0.28	mg/Kg	U		4	6010C
7440-48-4	Cobalt	19.6	10.0	0.90	mg/Kg			4	6010C
7440-47-3	Chromium	62.4	2.0	0.80	mg/Kg			4	6010C
7440-50-8	Copper	38.0	5.0	1.8	mg/Kg			4	6010C
7439-89-6	Iron	46300	75.2	62.4	mg/Kg			10	6010C
7440-09-7	Potassium	9390	1000	27.7	mg/Kg			4	6010C
7439-95-4	Magnesium	16800	1000	66.6	mg/Kg			4	6010C
7439-96-5	Manganese	751	3.0	0.86	mg/Kg			4	6010C
7440-23-5	Sodium	1560	1000	75.8	mg/Kg			4	6010C
7440-02-0	Nickel	56.3	8.0	1.8	mg/Kg			4	6010C
7439-92-1	Lead	15.5	2.0	0.82	mg/Kg			4	6010C
7440-36-0	Antimony	2.3	4.0	1.5	mg/Kg	J	MS	4	6010C
7782-49-2	Selenium	1.1	4.0	1.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	2.0	4.0	2.0	mg/Kg	U		4	6010C
7440-62-2	Vanadium	65.3	10.0	0.83	mg/Kg			4	6010C
7440-66-6	Zinc	109	6.0	1.7	mg/Kg			4	6010C
7439-97-6	Mercury	0.016	0.022	0.016	mg/Kg	U		1	7471B

Appendix C

Support Documentation

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-92355-1
Sdg Number: 92355, 92511, 92568

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-92355-1	SB43 (8-9)	Solid	03/26/2015 1230	03/27/2015 1800
460-92355-2	SB43 (45-48)	Solid	03/26/2015 1330	03/27/2015 1800
460-92355-3	SB43 (49-50)	Solid	03/26/2015 1345	03/27/2015 1800
460-92355-4	DUPE-032615	Solid	03/26/2015 0000	03/27/2015 1800
460-92355-5	SB44 (9-10)	Solid	03/27/2015 1100	03/27/2015 1800
460-92355-6	SB44 (38-40)	Solid	03/27/2015 1230	03/27/2015 1800
460-92355-7	SB44 (49-50)	Solid	03/27/2015 1300	03/27/2015 1800
460-92511-1	SB42(9-10)	Solid	03/30/2015 1145	03/31/2015 1800
460-92511-2	SB42(35-37.5)	Solid	03/30/2015 1245	03/31/2015 1800
460-92511-3	SB42(49-50)	Solid	03/30/2015 1330	03/31/2015 1800
460-92568-1	SB40 (9-10)	Solid	04/01/2015 0745	04/01/2015 1750
460-92568-2	SB40 (20-23.5)	Solid	04/01/2015 0815	04/01/2015 1750
460-92568-3	SB40 (50-55)	Solid	04/01/2015 0945	04/01/2015 1750
460-92568-4	SB41 (5-10)	Solid	03/31/2015 1430	04/01/2015 1750
460-92568-4MS	SB41 (5-10)	Solid	03/31/2015 1430	04/01/2015 1750
460-92568-4MSD	SB41 (5-10)	Solid	03/31/2015 1430	04/01/2015 1750
460-92568-4DU	SB41 (5-10)	Solid	03/31/2015 1430	04/01/2015 1750
460-92568-5	SB41 (35-37)	Solid	04/01/2015 1430	04/01/2015 1750
460-92568-6	SB41 (38-39)	Solid	04/01/2015 1~~430~~ 45	04/01/2015 1750 CAN 04/09/15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANAI

460-92568 Chain of Custody

'rham Road
Jersey 08817
) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER / GREG MAZONE	Samplers Name (Printed) S. WRIGHT	Site/Project Identification EQUITY FORMER MGP 60137362	
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:	
		Regulatory Program: NYSDEC	
Address 125 BROAD ST, 16TH FLOOR	Analysis Turnaround Time: Standard ☒		
City MANHATTAN State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐		
Phone 212-377-8706 Fax			

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs EPA METHOD 8260	SVOCs EPA METHOD 8270	TAL SVOCs METHOD 8270	TAL METALS EPA METHOD 6010								LAB USE ONLY Project No: / Job No: ~~92355~~ 92568 Sample Numbers
SB40 (9-10)	4-1-15	0745	SOIL	8	X	X	X	X								1
SB40 (20-23.5)	4-1-15	0815	SOIL	8	X	X	X	X								2
SB40 (50-55)	4-1-15	0945	SOIL	8	X	X	X	X								3
SB41 (5-10)	3-31-15	1430	SOIL	8	X	X	X	X								4
SB41 (5-10) MS	3-31-15	1430	SOIL	8	X	X	X	X								4
SB41 (5-10) MSD	3-31-15	1430	SOIL	8	X	X	X	X								4
SB41 (35-37)	4-1-15	1430	SOIL	8	X	X	X	X								5
SB41 (38-39)	4-1-15	1445	SOIL	8	X	X	X	X								6
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH				Soil:	1	1	1/4	1								
6 = Other _____, 7 = Other _____				Water:												

SHORT HOLD

Special Instructions * PLEASE HOLD EXCESS SOIL UNTIL FURTHER NOTICE Water Metals Filtered (Yes/No)? _____

Relinquished by	Company AECOM	Date / Time 4-1-15 16:00	Received by 1)	Company T. A
Relinquished by 2)	Company T. A	Date / Time 4/1/15 17:50	Received by 2)	Company AECOM 1750 TA 4/1
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 1.7 / 3.7 1.7 / 3.7 IR#5 VOC J

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYS

460-92355 Chain of Custody

1 Road
sey 08817
)-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) JENNIFER PFEIFFER / GREG MALZONE	Samplers Name (Printed) S. WRIGHT	Site/Project Identification EQUITY FMR. MGP SITE 60137362
Company AECOM	P. O. #	State (Location of site): NJ: ☐ NY: ☒ Other:
		Regulatory Program: NYSDEC
Address 125 BROAD ST, 16TH FLOOR	Analysis Turnaround Time: Standard ☒	
City MANHATTAN State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone 212-377-8706 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs EPA METHOD 8260B	SVOCs EPA METHOD 8270C	TPH BY GC/FID METHOD 8015C	TAL METALS EPA METHOD 6010C	Sample Numbers
SB43 (8-9)	3-26-15	1230	SOIL	8	X	X	X	X	1
SB43 (45-48)	3-26-15	1330	SOIL	8	X	X	X	X	2
SB43 (49-50)	3-26-15	1345	SOIL	8	X	X	X	X	3
DUPE-032615	3-26-15	—	SOIL	8	X	X	X	X	4
SB44 (9-10)	3-27-15	1100	SOIL	8	X	X	X	X	5
SB44 (38-40)	3-27-15	1230	SOIL	8	X	X	X	X	6
SB44 (49-50)	3-27-15	1300	SOIL	8	X	X	X	X	7

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH

6 = Other _____, 7 = Other _____

	VOCs	SVOCs	TPH	TAL METALS
Soil:	1	1	1/4	1
Water:				

SHORT HOLD

LAB USE ONLY
Project No:
Job No: 92355

Special Instructions * PLEASE HOLD EXCESS SOIL UNTIL FURTHER NOTICE

Water Metals Filtered (Yes/No)? _____

	Company	Date / Time	Received by	Company
Relinquished by	AECOM	3-27-15 1633	1)	T-A
Relinquished by 2)	T-A	3/27/15 1718	2)	TA 3/30
Relinquished by 3)			3)	
Relinquished by 4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 1.2 (3.2 IRH FNSC.J.

04/08/2015

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TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 92355

Number of Coolers: _____ IR Gun #: _____

Cooler Temperatures

Cooler #1:	°C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4, 06/09/2014

Initials: _____ Date: 7/2.9/15

04/08/2015

Page 4449 of 4454

Malzone, Greg

From: Pfeiffer, Jennifer
Sent: Thursday, April 02, 2015 3:24 PM
To: patricia.grieco@testamericainc.com
Cc: Wright, Stephen; Malzone, Greg
Subject: RE: TestAmerica Sample Login Confirmation files from 460-92568 Equity FMR MGP Site 60137362
Attachments: 92568 COC.PDF

Hello Patty,
For the COC attached, the sample for SB40 (20-23) needs to be revised to say SB40(20-23.5).

Thank you very much,
Jennifer

Jennifer E. Pfeiffer

AECOM
125 Broad Street, 16th Floor, New York, NY 10004
T 212.377.8400 F 212.377.8410

Direct Line: 212.377.8706
Cell: 914.539.0261

From: Grieco, Patricia [mailto:patricia.grieco@testamericainc.com]
Sent: Thursday, April 02, 2015 3:06 PM
To: Pfeiffer, Jennifer
Subject: TestAmerica Sample Login Confirmation files from 460-92568 Equity FMR MGP Site 60137362

Hello,

Attached please find the Sample Confirmation files for job 460-92568; Equity FMR MGP Site 60137362

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

PATRICIA GRIECO
Senior Project Manager

TestAmerica Edison
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 732.593.2507
www.testamericainc.com

Reference: [356975]
Attachments: 3

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460-92511 Chain of Custody

...v Durham Road
New Jersey 08817
(732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice): JENNIFER PFEIFFER / GREG MALZONE	Samplers Name (Printed): S. WRIGHT	Site/Project Identification: EQUITY FORMER MGP SITE 60137362
Company: AECOM	P. O. #:	State (Location of site): NJ: ☐ NY: ☒ Other:
Address: 125 BROAD ST, 16TH FLOOR	Analysis Turnaround Time: Standard ☒	Regulatory Program: NYSDEC
City: MANHATTAN State: NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone: 212-377-8706 Fax:		Job No: 92511

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs EPA METHOD 8260B	SVOCs EPA METHOD 8270C	TPH BY GC/FID METHOD 8015C	TAL METALS EPA METHOD 6010							Sample Numbers
SB42 (9-10)	3-30-15	1145	SOIL		X	X	X	X							1
SB42 (35-37.5)	3-30-15	1245	SOIL		X	X	X	X							2
SB42 (49-50)	3-30-15	1330	SOIL		X	X	X	X							3

SHORT HOLD

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

	VOCs	SVOCs	TPH	TAL
Soil:	1	1	1/4	1
Water:				

Special Instructions: * PLEASE HOLD EXCESS SOIL UNTIL FURTHER NOTICE

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
[signature]	AECOM	3-31-15 15:00	1) [signature]	T.A
Relinquished by 2) [signature]	Company T.A	Date / Time 3/31/15 18:00	Received by 2) [signature] 3/31/15 TA 1800	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132). TAL - 0016 (0408)

Massachusetts (M-NJ312), North Carolina (No. 578) 1.4/3.4 IR# 5 No C.J

04/08/2015

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TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 92511

Number of Coolers: 1 IR Gun #: 6

Cooler Temperatures

	UNCORRECTED	CORRECTED		UNCORRECTED	CORRECTED		UNCORRECTED	CORRECTED
Cooler #1:	4 °C	4 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4, 06/09/2014

Initials: _____ Date: 3/31/15

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-92355-1
SDG Number: 92355, 92511, 92568

Login Number: 92355
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-92355-1
SDG Number: 92355, 92511, 92568

Login Number: 92511
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-92355-1
SDG Number: 92355, 92511, 92568

Login Number: 92568
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,3.7° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Malzone, Greg

From: Pfeiffer, Jennifer
Sent: Wednesday, April 01, 2015 10:35 PM
To: Grieco, Patricia (Patricia.Grieco@testamericainc.com)
Cc: Crosby, Taryn (Taryn.Crosby@testamericainc.com); Wright, Stephen; Malzone, Greg
Subject: FW: TestAmerica Sample Login Confirmation files from 460-92511 Equity Former MGP Site 60137362
Attachments: Std_Tal_Login_Ack for 460-92511-1.pdf; Std_Tal_Login_Limits for 460-92511-1.pdf; COC 460-92511 (201503312201).pdf

Hello Patty,
There is a missing sample ID on the COC – it is SB42 (35-37.5). Our apologies for this omission.

Thank you much,
Jennifer

Jennifer E. Pfeiffer

AECOM
125 Broad Street, 16th Floor, New York, NY 10004
T 212.377.8400 F 212.377.8410

Direct Line: 212.377.8706
Cell: 914.539.0261

From: Grieco, Patricia [mailto:patricia.grieco@testamericainc.com]
Sent: Wednesday, April 01, 2015 1:46 PM
To: Pfeiffer, Jennifer
Subject: TestAmerica Sample Login Confirmation files from 460-92511 Equity Former MGP Site 60137362

Hello,

Attached please find the Sample Confirmation files for job 460-92511; Equity Former MGP Site 60137362

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

PATRICIA GRIECO
Senior Project Manager

TestAmerica Edison
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 732.593.2507
www.testamericainc.com

Reference: [356645]
Attachments: 3

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: MB 460-290386/7

Matrix: Solid Lab File ID: K38575.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/05/2015 07:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 290386 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	4.18	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: MB 460-290386/7

Matrix: Solid Lab File ID: K38575.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/05/2015 07:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 290386 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-130
460-00-4	4-Bromofluorobenzene	118		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	119		70-130

5840(9-10)
5841(38-39)

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-290757/11

Matrix: Solid | Lab File ID: K38661.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	12.1		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-290757/11

Matrix: Solid | Lab File ID: K38661.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/07/2015 15:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 290757 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene	105		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: LB3 460-288835/1-A

Matrix: Solid | Lab File ID: K38283.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/30/2015 09:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289045 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	3.86	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.720	J	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: LB3 460-288835/1-A

Matrix: Solid Lab File ID: K38283.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 03/30/2015 09:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 289045 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene	105		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130
1868-53-7	Dibromofluoromethane (Surr)	107		70-130

SB43(49-50)
SB44 (9-10)
SB44 (49-50)

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: LB3 460-288835/1-A

Matrix: Solid Lab File ID: K38314.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 03/31/2015 00:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 289168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	3.42	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.498	J	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: LB3 460-288835/1-A

Matrix: Solid Lab File ID: K38314.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 03/31/2015 00:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 289168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene	106		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: LB3 460-289461/1-A

Matrix: Solid | Lab File ID: O96906.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/01/2015 17:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289557 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	5.81		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: LB3 460-289461/1-A

Matrix: Solid | Lab File ID: O96906.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/01/2015 17:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289557 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-130
460-00-4	4-Bromofluorobenzene	118		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	97		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-289045/8

Matrix: Solid | Lab File ID: K38282.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 08:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289045 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	3.05	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-289045/8

Matrix: Solid | Lab File ID: K38282.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 08:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289045 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene	104		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	108		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-289168/7

Matrix: Solid | Lab File ID: K38309.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 22:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289168 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	3.82	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: MB 460-289168/7

Matrix: Solid Lab File ID: K38309.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 22:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 289168 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
460-00-4	4-Bromofluorobenzene	105		70-130
2037-26-5	Toluene-d8 (Surr)	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	105		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-289557/7

Matrix: Solid | Lab File ID: O96895.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 04/01/2015 12:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 289557 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	4.61	J	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: Lab Sample ID: MB 460-289557/7

Matrix: Solid Lab File ID: O96895.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 04/01/2015 12:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 289557 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
460-00-4	4-Bromofluorobenzene	118		70-130
2037-26-5	Toluene-d8 (Surr)	92		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-290056/7

Matrix: Solid | Lab File ID: K38492.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/03/2015 08:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	5.52		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Client Sample ID: | Lab Sample ID: MB 460-290056/7

Matrix: Solid | Lab File ID: K38492.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/03/2015 08:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 290056 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene	112		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130
1868-53-7	Dibromofluoromethane (Surr)	110		70-130

SB42(9-10)
SB42(35-37.5)
SB42(49-50)

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-288950/2 Calibration Date: 03/29/2015 05:25

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81076.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0584	0.0644		22.1	20.0	10.3	20.0
Dichlorodifluoromethane	Ave	0.3733	0.3674	0.1000	19.7	20.0	-1.6	20.0
Chloromethane	Ave	0.3730	0.3249	0.1000	17.4	20.0	-12.9	20.0
Vinyl chloride	Ave	0.3300	0.3353	0.1000	20.3	20.0	1.6	20.0
Butadiene	Ave	0.2744	0.2665		19.4	20.0	-2.9	20.0
Bromomethane	Ave	0.2557	0.2578	0.1000	20.2	20.0	0.8	50.0
Chloroethane	Ave	0.1996	0.2108	0.1000	21.1	20.0	5.6	50.0
Trichlorofluoromethane	Ave	0.4197	0.4891	0.1000	23.3	20.0	16.5	20.0
Dichlorofluoromethane	Ave	0.6104	0.6767		22.2	20.0	10.9	20.0
Pentane	Ave	0.0340	0.0415		48.9	40.0	22.2*	20.0
Ethyl ether	Ave	0.2440	0.2048		16.8	20.0	-16.1	20.0
Ethanol	QuaF	0.0410	0.0368		823	1000	-17.7	50.0
2-Methyl-1,3-butadiene	Ave	0.2482	0.2087		16.8	20.0	-15.9	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2234	0.2460		22.0	20.0	10.2	20.0
Acrolein	Ave	0.4888	0.7179		58.8	40.0	46.9	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	QuaF	0.2311	0.2713	0.1000	20.2	20.0	1.2	20.0
1,1-Dichloroethene	Ave	0.2575	0.2554	0.1000	19.8	20.0	-0.8	20.0
Acetone	Ave	3.895	3.547	0.0500	91.1	100	-8.9	50.0
Iodomethane	Ave	0.5840	0.5640		19.3	20.0	-3.4	20.0
Carbon disulfide	Ave	0.9662	0.9128	0.1000	18.9	20.0	-5.5	50.0
Isopropyl alcohol	Ave	0.5764	0.5703		198	200	-1.1	50.0
Allyl chloride	Ave	0.1603	0.1598		19.9	20.0	-0.3	20.0
Cyclopentene	Ave	0.7109	0.6788		19.1	20.0	-4.5	20.0
Methyl acetate	Ave	0.3164	0.2416	0.1000	76.4	100	-23.6*	20.0
Acetonitrile	QuaF	0.0409	0.0390		180	200	-10.1	20.0
Methylene Chloride	Ave	0.3198	0.2972	0.1000	18.6	20.0	-7.1	20.0
2-Methyl-2-propanol	Ave	1.244	1.245		200	200	0.0	50.0
Methyl tert-butyl ether	Ave	0.8992	0.7712	0.1000	17.2	20.0	-14.2	20.0
trans-1,2-Dichloroethene	Ave	0.2887	0.2711	0.1000	18.8	20.0	-6.1	20.0
Acrylonitrile	Ave	0.1100	0.0919		167	200	-16.5	20.0
Hexane	QuaF	0.1441	0.1591		18.3	20.0	-8.3	20.0
Isopropyl ether	Ave	1.011	1.142		22.6	20.0	13.0	20.0
1,1-Dichloroethane	Ave	0.5637	0.5156	0.2000	18.3	20.0	-8.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2380	0.2431		20.4	20.0	2.2	20.0
Vinyl acetate	Ave	0.0176	0.0151		34.5	40.0	-13.8	20.0
Allyl alcohol	QuaF	0.1099	0.1113		458	500	-8.4	50.0
Tert-butyl ethyl ether	Ave	0.9552	1.027		21.5	20.0	7.5	20.0
2,2-Dichloropropane	Ave	0.4119	0.5124		24.9	20.0	24.4*	20.0
cis-1,2-Dichloroethene	Ave	0.3196	0.3001	0.1000	18.8	20.0	-6.1	20.0
2-Butanone (MEK)	Ave	1.178	1.166	0.0500	99.1	100	-0.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-288950/2 Calibration Date: 03/29/2015 05:25

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81076.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.7661	1.102		57.5	40.0	43.9*	20.0
Methyl acrylate	Ave	0.2533	0.2161		17.1	20.0	-14.7	20.0
Propionitrile	Ave	1.552	1.970		254	200	26.9*	20.0
Tetrahydrofuran	Ave	1.345	1.385		41.2	40.0	3.0	20.0
Chlorobromomethane	Ave	0.1695	0.1698		20.0	20.0	0.2	20.0
Methacrylonitrile	Ave	0.1191	0.1010		170	200	-15.1	20.0
Chloroform	Ave	0.5461	0.5267	0.2000	19.3	20.0	-3.6	20.0
Cyclohexane	QuaF	0.3468	0.3810	0.1000	17.9	20.0	-10.6	50.0
1,1,1-Trichloroethane	Ave	0.4056	0.3765	0.1000	18.6	20.0	-7.2	20.0
Carbon tetrachloride	Ave	0.3373	0.3401	0.1000	20.2	20.0	0.8	20.0
1,1-Dichloropropene	Ave	0.3391	0.3469		20.5	20.0	2.3	20.0
2,2,4-Trimethylpentane	Ave	0.3140	0.3861		24.6	20.0	23.0*	20.0
Benzene	Ave	1.349	1.178	0.5000	17.5	20.0	-12.7	20.0
Isobutyl alcohol	Ave	0.5065	2.533		500	100	400.2*	50.0
Isopropyl acetate	Ave	0.2620	0.2910		22.2	20.0	11.0	20.0
Tert-amyl methyl ether	Ave	0.9915	1.090		22.0	20.0	10.0	20.0
1,2-Dichloroethane	Ave	0.4686	0.4244	0.1000	18.1	20.0	-9.4	20.0
n-Heptane	QuaF	0.0893	0.1226		22.6	20.0	12.8	20.0
2,4,4-Trimethyl-1-pentene	QuaF	0.3254	0.2355		31.7	40.0	-20.6*	20.0
Trichloroethene	Ave	0.2837	0.2885	0.2000	20.3	20.0	1.7	20.0
n-Butanol	Ave	0.2273	0.2193		482	500	-3.5	50.0
Methylcyclohexane	QuaF	0.2368	0.2397	0.1000	15.8	20.0	-20.8	50.0
Ethyl acrylate	Ave	0.3877	0.3379		17.4	20.0	-12.8	20.0
1,2-Dichloropropane	Ave	0.2942	0.2837	0.1000	19.3	20.0	-3.6	20.0
Dibromomethane	Ave	0.2045	0.1985		19.4	20.0	-3.0	20.0
Methyl methacrylate	Ave	0.0753	0.0702		37.3	40.0	-6.8	20.0
1,4-Dioxane	Ave	1.067	0.8850		332	400	-17.0	50.0
n-Propyl acetate	Ave	0.4514	0.3528		15.6	20.0	-21.8*	20.0
Dichlorobromomethane	Ave	0.3908	0.3999	0.2000	20.5	20.0	2.3	20.0
2-Nitropropane	Ave	0.0859	0.0780		36.3	40.0	-9.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.1743		17.9	20.0	-10.6	20.0
Epichlorohydrin	Ave	0.0337	0.0275		326	400	-18.4	20.0
cis-1,3-Dichloropropene	Ave	0.5668	0.5150	0.2000	18.2	20.0	-9.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4138	0.3133	0.0500	75.7	100	-24.3	50.0
Toluene	Ave	1.389	1.293	0.4000	18.6	20.0	-6.9	20.0
trans-1,3-Dichloropropene	Ave	0.4950	0.4405	0.1000	17.8	20.0	-11.0	50.0
Ethyl methacrylate	Ave	0.4609	0.3757		16.3	20.0	-18.5	20.0
1,1,2-Trichloroethane	Ave	0.2914	0.2517	0.1000	17.3	20.0	-13.6	20.0
Tetrachloroethene	Ave	0.3386	0.3967	0.2000	23.4	20.0	17.1	20.0
1,3-Dichloropropane	Ave	0.5496	0.4737		17.2	20.0	-13.8	20.0
2-Hexanone	Ave	0.2799	0.2017	0.0500	72.1	100	-27.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-288950/2 Calibration Date: 03/29/2015 05:25

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81076.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3656	0.3765	0.1000	20.6	20.0	3.0	50.0
n-Butyl acetate	Ave	0.0672	0.0694		20.7	20.0	3.3	20.0
Ethylene Dibromide	Ave	0.3569	0.3212	0.1000	18.0	20.0	-10.0	20.0
Chlorobenzene	Ave	0.9707	0.9039	0.5000	18.6	20.0	-6.9	20.0
Ethylbenzene	Ave	0.4697	0.4639	0.1000	19.8	20.0	-1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3570	0.3696		20.7	20.0	3.5	20.0
m-Xylene & p-Xylene	Ave	0.5829	0.5722	0.1000	19.6	20.0	-1.9	20.0
o-Xylene	Ave	0.5866	0.5673	0.3000	19.3	20.0	-3.3	20.0
n-Butyl acrylate	Ave	0.3029	0.2504		16.5	20.0	-17.3	20.0
Styrene	Ave	1.029	0.9865	0.3000	19.2	20.0	-4.1	20.0
Bromoform	Ave	0.2828	0.2687	0.1000	19.0	20.0	-5.0	20.0
Amyl acetate (mixed isomers)	Ave	1.417	0.9939		14.0	20.0	-29.9*	20.0
Isopropylbenzene	Ave	1.353	1.372	0.1000	20.3	20.0	1.4	20.0
Camphene	QuaF	0.1031	0.1133		20.7	20.0	3.3	20.0
Bromobenzene	Ave	0.7904	0.7601		19.2	20.0	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8108	0.6258	0.3000	15.4	20.0	-22.8*	20.0
N-Propylbenzene	Ave	2.713	2.470		18.2	20.0	-9.0	20.0
1,2,3-Trichloropropane	Ave	0.2312	0.1973		17.1	20.0	-14.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2403	0.1714		14.3	20.0	-28.7*	20.0
2-Chlorotoluene	Ave	2.101	1.765		16.8	20.0	-16.0	20.0
4-Ethyltoluene	Ave	2.414	2.172		18.0	20.0	-10.0	20.0
1,3,5-Trimethylbenzene	Ave	1.943	1.790		18.4	20.0	-7.9	20.0
4-Chlorotoluene	Ave	2.005	1.666		16.6	20.0	-16.9	20.0
Butyl Methacrylate	Ave	0.8337	0.6919		16.6	20.0	-17.0	20.0
tert-Butylbenzene	Ave	1.420	1.426		20.1	20.0	0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.114	1.935		18.3	20.0	-8.5	20.0
sec-Butylbenzene	Ave	1.944	1.865		19.2	20.0	-4.1	20.0
1,3-Dichlorobenzene	Ave	1.328	1.254	0.6000	18.9	20.0	-5.6	20.0
4-Isopropyltoluene	Ave	1.759	1.728		19.6	20.0	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.429	1.314	0.5000	18.4	20.0	-8.0	20.0
Benzyl chloride	Ave	1.476	1.174		15.9	20.0	-20.4	50.0
Indan	Ave	2.425	2.172		17.9	20.0	-10.5	20.0
p-Diethylbenzene	Ave	1.117	1.047		18.8	20.0	-6.2	20.0
n-Butylbenzene	Ave	1.904	1.731		18.2	20.0	-9.1	20.0
1,2-Dichlorobenzene	Ave	1.365	1.295	0.4000	19.0	20.0	-5.2	20.0
1,2,4,5-Tetramethylbenzene	Ave	1.855	1.717		18.5	20.0	-7.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1528	0.0996	0.0500	13.0	20.0	-34.8	50.0
1,3,5-Trichlorobenzene	Ave	0.8581	0.9024		21.0	20.0	5.2	20.0
Camphor	Ave	0.0958	0.0570		59.5	100	-40.5*	20.0
1,2,4-Trichlorobenzene	Ave	0.8708	0.8189	0.2000	18.8	20.0	-6.0	20.0
Hexachlorobutadiene	Ave	0.2830	0.4036		28.5	20.0	42.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-288950/2 Calibration Date: 03/29/2015 05:25

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81076.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	2.446	1.676		13.7	20.0	-31.5	50.0
1,2,3-Trichlorobenzene	Ave	0.8356	0.6740		16.1	20.0	-19.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2638	0.2483		47.1	50.0	-5.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3284	0.2681		40.8	50.0	-18.3	20.0
Toluene-d8 (Surr)	Ave	1.083	0.9689		44.7	50.0	-10.5	20.0
4-Bromofluorobenzene	Ave	0.4205	0.4852		57.7	50.0	15.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289040/2 Calibration Date: 03/30/2015 07:38

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0584	0.0709		24.3	20.0	21.3*	20.0
Dichlorodifluoromethane	Ave	0.3733	0.3933	0.1000	21.1	20.0	5.4	20.0
Chloromethane	Ave	0.3730	0.3471	0.1000	18.6	20.0	-6.9	20.0
Vinyl chloride	Ave	0.3300	0.3201	0.1000	19.4	20.0	-3.0	20.0
Butadiene	Ave	0.2744	0.2650		19.3	20.0	-3.4	20.0
Bromomethane	Ave	0.2557	0.2284	0.1000	17.9	20.0	-10.7	50.0
Chloroethane	Ave	0.1996	0.1826	0.1000	18.3	20.0	-8.5	50.0
Dichlorofluoromethane	Ave	0.6104	0.5709		18.7	20.0	-6.5	20.0
Trichlorofluoromethane	Ave	0.4197	0.4242	0.1000	20.2	20.0	1.1	20.0
Pentane	Ave	0.0340	0.0312		36.7	40.0	-8.3	20.0
Ethyl ether	Ave	0.2440	0.2006		16.4	20.0	-17.8	20.0
2-Methyl-1,3-butadiene	Ave	0.2482	0.2194		17.7	20.0	-11.6	20.0
Ethanol	QuaF	0.0410	0.0413		923	1000	-7.7	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2234	0.2514		22.5	20.0	12.6	20.0
Acrolein	Ave	0.4888	0.6258		51.2	40.0	28.0	50.0
1,1-Dichloroethene	Ave	0.2575	0.2581	0.1000	20.0	20.0	0.2	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	QuaF	0.2311	0.2333	0.1000	17.4	20.0	-12.9	20.0
Acetone	Ave	3.895	3.431	0.0500	88.1	100	-11.9	50.0
Iodomethane	Ave	0.5840	0.5515		18.9	20.0	-5.6	20.0
Carbon disulfide	Ave	0.9662	0.8803	0.1000	18.2	20.0	-8.9	50.0
Isopropyl alcohol	Ave	0.5764	0.5947		206	200	3.2	50.0
Allyl chloride	Ave	0.1603	0.1578		19.7	20.0	-1.5	20.0
Cyclopentene	Ave	0.7109	0.6783		19.1	20.0	-4.6	20.0
Methyl acetate	Ave	0.3164	0.2429	0.1000	76.8	100	-23.2*	20.0
Acetonitrile	QuaF	0.0409	0.0341		157	200	-21.4*	20.0
Methylene Chloride	Ave	0.3198	0.2945	0.1000	18.4	20.0	-7.9	20.0
2-Methyl-2-propanol	Ave	1.244	1.172		188	200	-5.9	50.0
Methyl tert-butyl ether	Ave	0.8992	0.7669	0.1000	17.1	20.0	-14.7	20.0
trans-1,2-Dichloroethene	Ave	0.2887	0.2729	0.1000	18.9	20.0	-5.5	20.0
Acrylonitrile	Ave	0.1100	0.0911		166	200	-17.2	20.0
Hexane	QuaF	0.1441	0.1474		17.0	20.0	-15.1	20.0
1,1-Dichloroethane	Ave	0.5637	0.5094	0.2000	18.1	20.0	-9.6	20.0
Isopropyl ether	Ave	1.011	1.131		22.4	20.0	11.9	20.0
2-Chloro-1,3-butadiene	Ave	0.2380	0.2417		20.3	20.0	1.6	20.0
Vinyl acetate	Ave	0.0176	0.0139		31.7	40.0	-20.8*	20.0
Allyl alcohol	QuaF	0.1099	0.1208		497	500	-0.7	50.0
Tert-butyl ethyl ether	Ave	0.9552	1.019		21.3	20.0	6.7	20.0
2,2-Dichloropropane	Ave	0.4119	0.5146		25.0	20.0	24.9*	20.0
cis-1,2-Dichloroethene	Ave	0.3196	0.3026	0.1000	18.9	20.0	-5.3	20.0
2-Butanone (MEK)	Ave	1.178	1.123	0.0500	95.4	100	-4.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289040/2 Calibration Date: 03/30/2015 07:38

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.7661	0.9334		48.7	40.0	21.8*	20.0
Methyl acrylate	Ave	0.2533	0.2123		16.8	20.0	-16.2	20.0
Propionitrile	Ave	1.552	1.998		258	200	28.8*	20.0
Tetrahydrofuran	Ave	1.345	1.331		39.6	40.0	-1.0	20.0
Chlorobromomethane	Ave	0.1695	0.1712		20.2	20.0	1.0	20.0
Methacrylonitrile	Ave	0.1191	0.1005		169	200	-15.6	20.0
Chloroform	Ave	0.5461	0.5112	0.2000	18.7	20.0	-6.4	20.0
Cyclohexane	QuaF	0.3468	0.3619	0.1000	17.0	20.0	-15.1	50.0
1,1,1-Trichloroethane	Ave	0.4056	0.3742	0.1000	18.5	20.0	-7.7	20.0
Carbon tetrachloride	Ave	0.3373	0.3595	0.1000	21.3	20.0	6.6	20.0
1,1-Dichloropropene	Ave	0.3391	0.3416		20.1	20.0	0.7	20.0
2,2,4-Trimethylpentane	Ave	0.3140	0.2788		17.8	20.0	-11.2	20.0
Benzene	Ave	1.349	1.178	0.5000	17.5	20.0	-12.7	20.0
Isobutyl alcohol	Ave	0.5065	2.420		478	100	377.8*	50.0
Tert-amyl methyl ether	Ave	0.9915	1.111		22.4	20.0	12.0	20.0
1,2-Dichloroethane	Ave	0.4686	0.4153	0.1000	17.7	20.0	-11.4	20.0
Isopropyl acetate	Ave	0.2620	0.2914		22.2	20.0	11.2	20.0
n-Heptane	QuaF	0.0893	0.1036		19.1	20.0	-4.7	20.0
2,4,4-Trimethyl-1-pentene	QuaF	0.3254	0.2645		35.6	40.0	-11.0	20.0
Trichloroethene	Ave	0.2837	0.2969	0.2000	20.9	20.0	4.6	20.0
n-Butanol	Ave	0.2273	0.2285		503	500	0.5	50.0
Methylcyclohexane	QuaF	0.2368	0.2455	0.1000	16.2	20.0	-18.8	50.0
Ethyl acrylate	Ave	0.3877	0.3643		18.8	20.0	-6.0	20.0
1,2-Dichloropropane	Ave	0.2942	0.2903	0.1000	19.7	20.0	-1.4	20.0
Dibromomethane	Ave	0.2045	0.1980		19.4	20.0	-3.2	20.0
1,4-Dioxane	Ave	1.067	1.068		400	400	0.1	50.0
Methyl methacrylate	Ave	0.0753	0.0710		37.7	40.0	-5.7	20.0
n-Propyl acetate	Ave	0.4514	0.3806		16.9	20.0	-15.7	20.0
Dichlorobromomethane	Ave	0.3908	0.4023	0.2000	20.6	20.0	2.9	20.0
2-Nitropropane	Ave	0.0859	0.0671		31.2	40.0	-22.0*	20.0
2-Chloroethyl vinyl ether	Ave	0.1949	0.1639		16.8	20.0	-15.9	20.0
Epichlorohydrin	Ave	0.0337	0.0265		315	400	-21.3*	20.0
cis-1,3-Dichloropropene	Ave	0.5668	0.4975	0.2000	17.6	20.0	-12.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4138	0.3093	0.0500	74.8	100	-25.2	50.0
Toluene	Ave	1.389	1.300	0.4000	18.7	20.0	-6.4	20.0
trans-1,3-Dichloropropene	Ave	0.4950	0.4383	0.1000	17.7	20.0	-11.5	50.0
Ethyl methacrylate	Ave	0.4609	0.3743		16.2	20.0	-18.8	20.0
1,1,2-Trichloroethane	Ave	0.2914	0.2502	0.1000	17.2	20.0	-14.1	20.0
Tetrachloroethene	Ave	0.3386	0.3913	0.2000	23.1	20.0	15.6	20.0
1,3-Dichloropropane	Ave	0.5496	0.4785		17.4	20.0	-12.9	20.0
2-Hexanone	Ave	0.2799	0.2032	0.0500	72.6	100	-27.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289040/2 Calibration Date: 03/30/2015 07:38

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3656	0.3780	0.1000	20.7	20.0	3.4	50.0
n-Butyl acetate	Ave	0.0672	0.0704		20.9	20.0	4.7	20.0
Ethylene Dibromide	Ave	0.3569	0.3211	0.1000	18.0	20.0	-10.0	20.0
Chlorobenzene	Ave	0.9707	0.9141	0.5000	18.8	20.0	-5.8	20.0
Ethylbenzene	Ave	0.4697	0.4584	0.1000	19.5	20.0	-2.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3570	0.3740		20.9	20.0	4.7	20.0
m-Xylene & p-Xylene	Ave	0.5829	0.5668	0.1000	19.4	20.0	-2.8	20.0
o-Xylene	Ave	0.5866	0.5638	0.3000	19.2	20.0	-3.9	20.0
n-Butyl acrylate	Ave	0.3029	0.2588		17.1	20.0	-14.6	20.0
Styrene	Ave	1.029	0.9927	0.3000	19.3	20.0	-3.5	20.0
Bromoform	Ave	0.2828	0.2881	0.1000	20.4	20.0	1.9	20.0
Amyl acetate (mixed isomers)	Ave	1.417	1.055		14.9	20.0	-25.6*	20.0
Isopropylbenzene	Ave	1.353	1.321	0.1000	19.5	20.0	-2.3	20.0
Camphene	QuaF	0.1031	0.0979		17.8	20.0	-10.8	20.0
Bromobenzene	Ave	0.7904	0.7849		19.9	20.0	-0.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8108	0.6211	0.3000	15.3	20.0	-23.4*	20.0
N-Propylbenzene	Ave	2.713	2.388		17.6	20.0	-12.0	20.0
1,2,3-Trichloropropane	Ave	0.2312	0.1896		16.4	20.0	-18.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2403	0.1737		14.5	20.0	-27.7*	20.0
2-Chlorotoluene	Ave	2.101	1.759		16.7	20.0	-16.3	20.0
4-Ethyltoluene	Ave	2.414	2.172		18.0	20.0	-10.0	20.0
1,3,5-Trimethylbenzene	Ave	1.943	1.738		17.9	20.0	-10.6	20.0
4-Chlorotoluene	Ave	2.005	1.663		16.6	20.0	-17.0	20.0
Butyl Methacrylate	Ave	0.8337	0.7148		17.1	20.0	-14.3	20.0
tert-Butylbenzene	Ave	1.420	1.375		19.4	20.0	-3.2	20.0
1,2,4-Trimethylbenzene	Ave	2.114	1.859		17.6	20.0	-12.1	20.0
sec-Butylbenzene	Ave	1.944	1.851		19.0	20.0	-4.8	20.0
1,3-Dichlorobenzene	Ave	1.328	1.250	0.6000	18.8	20.0	-5.9	20.0
4-Isopropyltoluene	Ave	1.759	1.711		19.5	20.0	-2.7	20.0
1,4-Dichlorobenzene	Ave	1.429	1.301	0.5000	18.2	20.0	-8.9	20.0
Benzyl chloride	Ave	1.476	1.166		15.8	20.0	-21.0	50.0
Indan	Ave	2.425	2.110		17.4	20.0	-13.0	20.0
p-Diethylbenzene	Ave	1.117	1.019		18.2	20.0	-8.8	20.0
n-Butylbenzene	Ave	1.904	1.675		17.6	20.0	-12.0	20.0
1,2-Dichlorobenzene	Ave	1.365	1.244	0.4000	18.2	20.0	-8.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	1.855	1.617		17.4	20.0	-12.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1528	0.0923	0.0500	12.1	20.0	-39.6	50.0
1,3,5-Trichlorobenzene	Ave	0.8581	0.8225		19.2	20.0	-4.1	20.0
Camphor	Ave	0.0958	0.0585		61.1	100	-38.9*	20.0
1,2,4-Trichlorobenzene	Ave	0.8708	0.7179	0.2000	16.5	20.0	-17.6	20.0
Hexachlorobutadiene	Ave	0.2830	0.3681		26.0	20.0	30.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289040/2 Calibration Date: 03/30/2015 07:38

Instrument ID: CVOAMS2 Calib Start Date: 02/12/2015 06:33

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 02/12/2015 09:45

Lab File ID: B81105.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	2.446	1.951		16.0	20.0	-20.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8356	0.5750		13.8	20.0	-31.2*	20.0
Dibromofluoromethane (Surr)	Ave	0.2638	0.2698		51.1	50.0	2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3284	0.3008		45.8	50.0	-8.4	20.0
Toluene-d8 (Surr)	Ave	1.083	1.025		47.3	50.0	-5.4	20.0
4-Bromofluorobenzene	Ave	0.4205	0.4411		52.5	50.0	4.9	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-92355-1 Analy Batch No.: 289854

SDG No.: 92355, 92511, 92568

Instrument ID: CVOAMS2 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2015 12:23 Calibration End Date: 04/02/2015 15:33 Calibration ID: 48844

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	+++++ 1.4726	1.5490 1.4061	1.2384	1.4275	1.4450	Ave		1.4231				7.2		20.0			
1,2-Dichlorobenzene	+++++ 1.2575	1.2294 1.2332	1.1761	1.2837	1.2673	Ave		1.2412			0.4000	3.1		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 1.5678	1.3973 1.5255	1.4161	1.4431	1.5562	Ave		1.4843				5.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0481	0.0518 0.0552	0.0476	0.0432	0.0509	Ave		0.0495		*	0.0500	8.3		20.0			
1,3,5-Trichlorobenzene	+++++ 0.7520	0.8584 0.7057	0.8245	0.7246	0.8389	Ave		0.7840				8.2		20.0			
Camphor	+++++ 0.0353	0.0266 0.0412	0.0246	0.0233	0.0263	QuaF		0.0304	0.0000043						1.0000		0.9900
1,2,4-Trichlorobenzene	+++++ 0.5191	0.5766 0.4555	0.5244	0.5074	0.5388	Ave		0.5203			0.2000	7.6		20.0			
Hexachlorobutadiene	+++++ 0.3327	0.4597 0.3053	0.2770	0.3189	0.3459	Ave		0.3399				18.6		20.0			
Naphthalene	+++++ 0.7271	0.7949 0.6748	0.6811	0.6605	0.7471	Ave		0.7142				7.2		20.0			
1,2,3-Trichlorobenzene	+++++ 0.2336	0.2996 0.2036	0.2437	0.2330	0.2552	Ave		0.2448				13.0		20.0			
Dibromofluoromethane (Surr)	0.2768 0.2924	0.2593 0.2791	0.2798	0.2761	0.2834	Ave		0.2781				3.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2215 0.2274	0.2203 0.2377	0.2270	0.2143	0.2325	Ave		0.2258				3.5		20.0			
Toluene-d8 (Surr)	0.9134 0.9622	0.7832 1.0607	0.9527	0.8645	0.9589	Ave		0.9279				9.4		20.0			
4-Bromofluorobenzene	0.5341 0.5277	0.4999 0.5622	0.5556	0.5220	0.5583	Ave		0.5371				4.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290707/2 Calibration Date: 04/07/2015 07:29

Instrument ID: CVOAMS3 Calib Start Date: 03/27/2015 03:48

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/27/2015 07:11

Lab File ID: C06765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	QuaF	0.0420	0.0107		4.64	20.0	-76.8*	20.0
Dichlorodifluoromethane	Ave	0.3726	0.3805	0.1000	20.4	20.0	2.1	20.0
Chloromethane	Ave	0.3674	0.3706	0.1000	20.2	20.0	0.9	20.0
Vinyl chloride	Ave	0.3502	0.3698	0.1000	21.1	20.0	5.6	20.0
Butadiene	Ave	0.3032	0.3300		21.8	20.0	8.8	20.0
Bromomethane	QuaF	0.1541	0.1030	0.1000	13.8	20.0	-31.1	50.0
Chloroethane	Ave	0.2333	0.2430	0.1000	20.8	20.0	4.1	50.0
Dichlorofluoromethane	Ave	0.6030	0.6290		20.9	20.0	4.3	20.0
Trichlorofluoromethane	Ave	0.5142	0.5245	0.1000	20.4	20.0	2.0	20.0
Pentane	QuaF	0.0596	0.0575		35.2	40.0	-12.0	20.0
Ethanol	Ave	0.0565	0.0554		981	1000	-1.9	50.0
Ethyl ether	Ave	0.2784	0.2917		20.9	20.0	4.7	20.0
2-Methyl-1,3-butadiene	Ave	0.3070	0.3161		20.6	20.0	3.0	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2555	0.2583		20.2	20.0	1.1	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	QuaF	0.2783	0.2884	0.1000	18.1	20.0	-9.4	20.0
Acrolein	Ave	0.0308	0.0226		29.3	40.0	-26.7	50.0
1,1-Dichloroethene	Ave	0.2891	0.2952	0.1000	20.4	20.0	2.1	20.0
Acetone	Ave	0.9807	0.7558	0.0500	77.1	100	-22.9	50.0
Iodomethane	QuaF	0.1369	0.1136		19.7	20.0	-1.4	20.0
Carbon disulfide	Ave	0.8854	0.8700	0.1000	19.7	20.0	-1.7	50.0
Isopropyl alcohol	Ave	0.7794	0.6835		175	200	-12.3	50.0
Allyl chloride	Ave	0.1128	0.1511		26.8	20.0	33.9*	20.0
Cyclopentene	Ave	0.8403	0.8567		20.4	20.0	1.9	20.0
Methyl acetate	Ave	0.3395	0.4243	0.1000	125	100	25.0*	20.0
Acetonitrile	Ave	0.0649	0.0765		236	200	17.9	20.0
Methylene Chloride	Ave	0.3276	0.3508	0.1000	21.4	20.0	7.1	20.0
2-Methyl-2-propanol	Ave	1.112	1.043		188	200	-6.2	50.0
Methyl tert-butyl ether	Ave	0.9612	1.031	0.1000	21.4	20.0	7.2	20.0
trans-1,2-Dichloroethene	Ave	0.3244	0.3481	0.1000	21.5	20.0	7.3	20.0
Acrylonitrile	QuaF		0.1622		211	200	5.3	20.0
Hexane	QuaF	0.2909	0.3168		18.5	20.0	-7.6	20.0
Isopropyl ether	Ave	1.119	1.605		28.7	20.0	43.4*	20.0
1,1-Dichloroethane	Ave	0.6141	0.7051	0.2000	23.0	20.0	14.8	20.0
Vinyl acetate	Ave	0.3182	0.4128		51.9	40.0	29.7*	20.0
Allyl alcohol	Ave	0.1930	0.1764		457	500	-8.6	50.0
2-Chloro-1,3-butadiene	Ave	0.2882	0.3106		21.6	20.0	7.8	20.0
Tert-butyl ethyl ether	Ave	1.034	1.410		27.3	20.0	36.3*	20.0
2,2-Dichloropropane	Ave	0.1594	0.1787		22.4	20.0	12.1	20.0
cis-1,2-Dichloroethene	Ave	0.3457	0.3838	0.1000	22.2	20.0	11.0	20.0
2-Butanone (MEK)	Ave	0.2707	0.2795	0.0500	103	100	3.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290707/2 Calibration Date: 04/07/2015 07:29

Instrument ID: CVOAMS3 Calib Start Date: 03/27/2015 03:48

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/27/2015 07:11

Lab File ID: C06765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.2109	0.1650		31.3	40.0	-21.8*	20.0
Methyl acrylate	Ave	0.3405	0.3763		22.1	20.0	10.5	20.0
Propionitrile	Ave	0.0581	0.0803		276	200	38.1*	20.0
Tetrahydrofuran	Ave	0.3010	0.3264		43.4	40.0	8.4	20.0
Chlorobromomethane	Ave	0.1600	0.1585		19.8	20.0	-0.9	20.0
Methacrylonitrile	Ave	0.1512	0.1751		232	200	15.8	20.0
Chloroform	Ave	0.5823	0.6455	0.2000	22.2	20.0	10.9	20.0
Cyclohexane	QuaF	0.5264	0.5712	0.1000	19.4	20.0	-2.9	50.0
1,1,1-Trichloroethane	Ave	0.5139	0.5245	0.1000	20.4	20.0	2.1	20.0
Carbon tetrachloride	Ave	0.4362	0.4448	0.1000	20.4	20.0	2.0	20.0
1,1-Dichloropropene	Ave	0.4361	0.5053		23.2	20.0	15.9	20.0
Isobutyl alcohol	Ave	0.6120	0.6352		519	500	3.8	50.0
Benzene	Ave	1.572	1.759	0.5000	22.4	20.0	11.9	20.0
Isopropyl acetate	Ave	1.109	1.254		22.6	20.0	13.1	20.0
Tert-amyl methyl ether	Ave	0.9811	1.304		26.6	20.0	32.9*	20.0
1,2-Dichloroethane	Ave	0.5084	0.5096	0.1000	20.0	20.0	0.2	20.0
n-Heptane	QuaF	0.2112	0.2325		18.1	20.0	-9.7	20.0
Ethyl acrylate	QuaF	0.4253	0.4809		20.0	20.0	-0.2	20.0
2,4,4-Trimethyl-1-pentene	QuaF	0.7364	0.8483		38.1	40.0	-4.7	20.0
n-Butanol	Ave	0.2821	0.2579		457	500	-8.6	50.0
Trichloroethene	Ave	0.3410	0.3643	0.2000	21.4	20.0	6.8	20.0
Methylcyclohexane	QuaF	0.4822	0.5445	0.1000	19.4	20.0	-2.8	50.0
1,2-Dichloropropane	Ave	0.3419	0.3864	0.1000	22.6	20.0	13.0	20.0
Methyl methacrylate	Ave	0.1072	0.1079		40.3	40.0	0.7	20.0
1,4-Dioxane	Ave	1.078	0.9878		367	400	-8.4	50.0
Dibromomethane	Ave	0.1944	0.2220		22.8	20.0	14.2	20.0
n-Propyl acetate	Ave	0.6107	0.6067		19.9	20.0	-0.7	20.0
Dichlorobromomethane	Ave	0.4476	0.4609	0.2000	20.6	20.0	3.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2150	0.2475		23.0	20.0	15.1	20.0
2-Nitropropane	Ave	0.1215	0.1086		35.8	40.0	-10.6	20.0
Epichlorohydrin	Ave	0.1853	0.2180		470	400	17.6	20.0
cis-1,3-Dichloropropene	Ave	0.6610	0.7231	0.2000	21.9	20.0	9.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.282	2.441	0.0500	107	100	7.0	50.0
Toluene	Ave	1.647	1.847	0.4000	22.4	20.0	12.2	20.0
trans-1,3-Dichloropropene	Ave	0.5736	0.6584	0.1000	23.0	20.0	14.8	50.0
Ethyl methacrylate	Ave	0.4431	0.4776		21.6	20.0	7.8	20.0
1,1,2-Trichloroethane	Ave	0.3214	0.3407	0.1000	21.2	20.0	6.0	20.0
Tetrachloroethene	Ave	0.5089	0.4457	0.2000	17.5	20.0	-12.4	20.0
1,3-Dichloropropane	Ave	0.6399	0.7028		22.0	20.0	9.8	20.0
2-Hexanone	Ave	1.706	1.731	0.0500	101	100	1.5	50.0
n-Butyl acetate	Ave	0.1124	0.0838		14.9	20.0	-25.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290707/2 Calibration Date: 04/07/2015 07:29

Instrument ID: CVOAMS3 Calib Start Date: 03/27/2015 03:48

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/27/2015 07:11

Lab File ID: C06765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.4297	0.4064	0.1000	18.9	20.0	-5.4	50.0
Ethylene Dibromide	Ave	0.3955	0.4045	0.1000	20.5	20.0	2.3	20.0
Chlorobenzene	Ave	1.127	1.185	0.5000	21.0	20.0	5.2	20.0
Ethylbenzene	Ave	0.6014	0.6113	0.1000	20.3	20.0	1.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4248	0.3946		18.6	20.0	-7.1	20.0
m-Xylene & p-Xylene	Ave	0.7492	0.7809	0.1000	20.8	20.0	4.2	20.0
n-Butyl acrylate	Ave	0.3111	0.3149		20.2	20.0	1.2	20.0
o-Xylene	Ave	0.7073	0.7588	0.3000	21.5	20.0	7.3	20.0
Styrene	Ave	1.233	1.245	0.3000	20.2	20.0	1.0	20.0
Amyl acetate (mixed isomers)	Ave	1.445	1.614		22.3	20.0	11.7	20.0
Bromoform	Ave	0.3415	0.2579	0.1000	15.1	20.0	-24.5*	20.0
Isopropylbenzene	Ave	1.772	1.991	0.1000	22.5	20.0	12.4	20.0
Camphene	Ave	0.1688	0.1785		21.2	20.0	5.8	20.0
Bromobenzene	Ave	0.9452	0.9066		19.2	20.0	-4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8197	0.9490	0.3000	23.2	20.0	15.8	20.0
N-Propylbenzene	Ave	3.575	4.296		24.0	20.0	20.2*	20.0
1,2,3-Trichloropropane	Ave	0.2837	0.2995		21.1	20.0	5.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3051	0.3101		20.3	20.0	1.7	20.0
2-Chlorotoluene	Ave	2.496	2.904		23.3	20.0	16.3	20.0
4-Ethyltoluene	Ave	3.147	3.680		23.4	20.0	17.0	20.0
1,3,5-Trimethylbenzene	Ave	2.544	2.957		23.2	20.0	16.2	20.0
4-Chlorotoluene	Ave	2.277	2.644		23.2	20.0	16.1	20.0
Butyl Methacrylate	Ave	0.8986	1.037		23.1	20.0	15.3	20.0
tert-Butylbenzene	Ave	2.234	2.512		22.5	20.0	12.4	20.0
1,2,4-Trimethylbenzene	Ave	2.574	2.977		23.1	20.0	15.7	20.0
sec-Butylbenzene	Ave	3.060	3.625		23.7	20.0	18.5	20.0
4-Isopropyltoluene	Ave	2.770	3.126		22.6	20.0	12.9	20.0
1,3-Dichlorobenzene	Ave	1.605	1.632	0.6000	20.3	20.0	1.7	20.0
1,4-Dichlorobenzene	Ave	1.657	1.708	0.5000	20.6	20.0	3.1	20.0
Benzyl chloride	Ave	1.482	1.647		22.2	20.0	11.1	50.0
Indan	Ave	1.249	1.329		21.3	20.0	6.4	20.0
p-Diethylbenzene	Ave	1.659	1.886		22.7	20.0	13.6	20.0
n-Butylbenzene	Ave	2.866	3.415		23.8	20.0	19.2	20.0
1,2-Dichlorobenzene	Ave	1.490	1.482	0.4000	19.9	20.0	-0.5	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.406	2.624		21.8	20.0	9.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1723	0.1715	0.0500	19.9	20.0	-0.5	50.0
1,3,5-Trichlorobenzene	Ave	1.224	1.127		18.4	20.0	-7.9	20.0
Camphor	Ave	0.1028	0.0973		94.6	100	-5.4	20.0
1,2,4-Trichlorobenzene	Ave	1.028	0.9746	0.2000	19.0	20.0	-5.2	20.0
Hexachlorobutadiene	Ave	0.5646	0.4348		15.4	20.0	-23.0*	20.0
Naphthalene	Ave	2.269	2.413		21.3	20.0	6.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290707/2 Calibration Date: 04/07/2015 07:29

Instrument ID: CVOAMS3 Calib Start Date: 03/27/2015 03:48

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/27/2015 07:11

Lab File ID: C06765.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.8803	0.7970		18.1	20.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2585	0.2582		49.9	50.0	-0.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3512	0.3505		49.9	50.0	-0.2	20.0
Toluene-d8 (Surr)	Ave	1.236	1.276		51.6	50.0	3.2	20.0
4-Bromofluorobenzene	Ave	0.8370	0.7655		45.7	50.0	-8.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289168/2 Calibration Date: 03/30/2015 19:20

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38304.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0463	0.0482		20.8	20.0	3.9	20.0
Dichlorodifluoromethane	Ave	0.3402	0.4403	0.1000	25.9	20.0	29.4*	20.0
Chloromethane	Ave	0.2677	0.3071	0.1000	22.9	20.0	14.7	20.0
Vinyl chloride	Ave	0.2342	0.1978	0.1000	16.9	20.0	-15.6	20.0
Butadiene	Ave	0.1988	0.1586		15.9	20.0	-20.3*	20.0
Bromomethane	Ave	0.1472	0.1577	0.1000	21.4	20.0	7.2	50.0
Chloroethane	Ave	1.251	1.049	0.1000	16.8	20.0	-16.1	50.0
Dichlorofluoromethane	QuaF		0.3633		20.0	20.0	0.0	20.0
Trichlorofluoromethane	QuaF		0.3239	0.1000	19.2	20.0	-3.9	20.0
Pentane	Ave	0.0449	0.0384		34.1	40.0	-14.7	20.0
Ethanol	Ave	0.0232	0.0169		727	1000	-27.3	50.0
Ethyl ether	Ave	0.2191	0.2032		18.5	20.0	-7.3	20.0
2-Methyl-1,3-butadiene	Ave	0.2438	0.2516		20.6	20.0	3.2	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2303	0.2607		22.6	20.0	13.2	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2630	0.2865	0.1000	21.8	20.0	8.9	20.0
Acrolein	Ave	0.3641	0.4318		356	300	18.6	50.0
1,1-Dichloroethene	Ave	0.2950	0.3222	0.1000	21.8	20.0	9.2	20.0
Acetone	Ave	0.8462	0.9643	0.0500	114	100	14.0	50.0
Iodomethane	Ave	0.5858	0.6968		23.8	20.0	18.9	20.0
Isopropyl alcohol	Ave	0.4111	0.2693		131	200	-34.5	50.0
Carbon disulfide	Ave	1.104	1.255	0.1000	22.7	20.0	13.7	50.0
Allyl chloride	Ave	0.1835	0.1936		21.1	20.0	5.5	20.0
Methyl acetate	Ave	0.2253	0.2362	0.1000	105	100	4.8	20.0
Cyclopentene	Ave	0.8019	0.8790		21.9	20.0	9.6	20.0
Acetonitrile	QuaF		0.5794		140	200	-30.2*	20.0
Methylene Chloride	Ave	0.3545	0.3885	0.1000	21.9	20.0	9.6	20.0
2-Methyl-2-propanol	Ave	0.9171	0.7185		157	200	-21.6	50.0
Methyl tert-butyl ether	Ave	0.8300	0.9362	0.1000	22.6	20.0	12.8	20.0
trans-1,2-Dichloroethene	Ave	0.3199	0.3344	0.1000	20.9	20.0	4.5	20.0
Acrylonitrile	Ave	0.0895	0.1068		239	200	19.3	20.0
Hexane	Ave	0.2211	0.1910		17.3	20.0	-13.6	20.0
Isopropyl ether	Ave	1.011	1.134		22.4	20.0	12.2	20.0
1,1-Dichloroethane	Ave	0.5397	0.5527	0.2000	20.5	20.0	2.4	20.0
Allyl alcohol	QuaF		0.0368		606	500	21.1	50.0
Vinyl acetate	Ave	0.1482	0.1388		37.5	40.0	-6.3	20.0
2-Chloro-1,3-butadiene	Ave	0.2525	0.2376		18.8	20.0	-5.9	20.0
Tert-butyl ethyl ether	Ave	0.9680	1.131		23.4	20.0	16.8	20.0
2,2-Dichloropropane	Ave	0.1182	0.1321		22.4	20.0	11.8	20.0
cis-1,2-Dichloroethene	Ave	0.3316	0.3447	0.1000	20.8	20.0	3.9	20.0
2-Butanone (MEK)	Ave	0.3010	0.3281	0.0500	109	100	9.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289168/2 Calibration Date: 03/30/2015 19:20

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38304.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	4.588	4.481		39.1	40.0	-2.3	20.0
Methyl acrylate	Ave	0.1865	0.1801		19.3	20.0	-3.5	20.0
Propionitrile	Ave	1.420	1.444		203	200	1.7	20.0
Chlorobromomethane	Ave	0.1646	0.1770		21.5	20.0	7.5	20.0
Tetrahydrofuran	Ave	0.3321	0.3265		39.3	40.0	-1.7	20.0
Methacrylonitrile	Ave	0.0911	0.0979		215	200	7.4	20.0
Chloroform	Ave	0.5023	0.5168	0.2000	20.6	20.0	2.9	20.0
Cyclohexane	Ave	0.4475	0.4799	0.1000	21.4	20.0	7.2	50.0
1,1,1-Trichloroethane	Ave	0.3972	0.4480	0.1000	22.6	20.0	12.8	20.0
Carbon tetrachloride	Ave	0.3664	0.4031	0.1000	22.0	20.0	10.0	20.0
1,1-Dichloropropene	Ave	0.3492	0.3154		18.1	20.0	-9.7	20.0
Isobutyl alcohol	Ave	1.378	0.2528		91.7	500	-81.7*	50.0
Benzene	Ave	1.678	1.519	0.5000	18.1	20.0	-9.5	20.0
Isopropyl acetate	Ave	0.6883	0.7823		22.7	20.0	13.7	20.0
Tert-amyl methyl ether	Ave	0.9341	1.147		24.6	20.0	22.8*	20.0
1,2-Dichloroethane	Ave	0.3337	0.3254	0.1000	19.5	20.0	-2.5	20.0
n-Heptane	Ave	0.2113	0.2086		19.7	20.0	-1.3	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.5332	0.5843		43.8	40.0	9.6	20.0
n-Butanol	Ave	0.2199	0.1355		308	500	-38.4	50.0
Trichloroethene	Ave	0.2736	0.2525	0.2000	18.5	20.0	-7.7	20.0
Ethyl acrylate	Ave	0.5618	0.6048		21.5	20.0	7.7	20.0
Methylcyclohexane	Ave	0.4335	0.4947	0.1000	22.8	20.0	14.1	50.0
1,2-Dichloropropane	Ave	0.2451	0.2477	0.1000	20.2	20.0	1.1	20.0
Methyl methacrylate	Ave	0.1545	0.1521		39.4	40.0	-1.5	20.0
1,4-Dioxane	Ave	1.186	1.279		431	400	7.9	50.0
n-Propyl acetate	Ave	0.2663	0.2635		19.8	20.0	-1.1	20.0
Dibromomethane	Ave	0.1658	0.1693		20.4	20.0	2.1	20.0
Dichlorobromomethane	Ave	0.3442	0.3387	0.2000	19.7	20.0	-1.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1069	0.0961		18.0	20.0	-10.1	20.0
2-Nitropropane	Ave	0.0469	0.0467		39.9	40.0	-0.3	20.0
Epichlorohydrin	Ave	0.2022	0.2202		436	400	8.9	20.0
cis-1,3-Dichloropropene	Ave	0.5685	0.4950	0.2000	17.4	20.0	-12.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.098	2.304	0.0500	110	100	9.8	50.0
Toluene	Ave	1.544	1.428	0.4000	18.5	20.0	-7.5	20.0
trans-1,3-Dichloropropene	Ave	0.4323	0.3767	0.1000	17.4	20.0	-12.9	50.0
Ethyl methacrylate	Ave	0.3430	0.3298		19.2	20.0	-3.9	20.0
1,1,2-Trichloroethane	Ave	0.2550	0.2374	0.1000	18.6	20.0	-6.9	20.0
Tetrachloroethene	Ave	0.4196	0.3892	0.2000	18.6	20.0	-7.2	20.0
1,3-Dichloropropane	Ave	0.4683	0.4233		18.1	20.0	-9.6	20.0
2-Hexanone	Ave	1.280	1.431	0.0500	112	100	11.7	50.0
n-Butyl acetate	Ave	0.3798	0.3406		17.9	20.0	-10.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289168/2 Calibration Date: 03/30/2015 19:20

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38304.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3728	0.3508	0.1000	18.8	20.0	-5.9	50.0
Ethylene Dibromide	Ave	0.3065	0.2816	0.1000	18.4	20.0	-8.1	20.0
Chlorobenzene	Ave	0.9844	0.9350	0.5000	19.0	20.0	-5.0	20.0
Ethylbenzene	Ave	0.5188	0.5136	0.1000	19.8	20.0	-1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3843	0.4020		20.9	20.0	4.6	20.0
m-Xylene & p-Xylene	Ave	0.6269	0.6195	0.1000	19.8	20.0	-1.2	20.0
n-Butyl acrylate	Ave	0.1971	0.1984		20.1	20.0	0.6	20.0
o-Xylene	Ave	0.6561	0.7053	0.3000	21.5	20.0	7.5	20.0
Styrene	Ave	0.9645	0.9926	0.3000	20.6	20.0	2.9	20.0
Amyl acetate (mixed isomers)	Ave	0.8965	0.8139		18.2	20.0	-9.2	20.0
Bromoform	Ave	0.2443	0.2504	0.1000	20.5	20.0	2.5	20.0
Isopropylbenzene	Ave	1.653	1.810	0.1000	21.9	20.0	9.5	20.0
Camphene	Ave	0.1266	0.0996		15.7	20.0	-21.3*	20.0
Bromobenzene	Ave	0.8628	0.7737		17.9	20.0	-10.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7770	0.7466	0.3000	19.2	20.0	-3.9	20.0
N-Propylbenzene	Ave	3.781	3.552		18.8	20.0	-6.0	20.0
1,2,3-Trichloropropane	Ave	0.2057	0.1981		19.3	20.0	-3.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1858	0.1635		17.6	20.0	-12.0	20.0
2-Chlorotoluene	Ave	2.549	2.491		19.5	20.0	-2.3	20.0
4-Ethyltoluene	Ave	3.082	3.047		19.8	20.0	-1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.697	2.596		19.3	20.0	-3.7	20.0
4-Chlorotoluene	Ave	2.188	2.061		18.8	20.0	-5.8	20.0
Butyl Methacrylate	Ave	0.7746	0.7410		19.1	20.0	-4.3	20.0
tert-Butylbenzene	Ave	2.109	1.785		16.9	20.0	-15.4	20.0
1,2,4-Trimethylbenzene	Ave	2.720	2.722		20.0	20.0	0.0	20.0
sec-Butylbenzene	Ave	3.392	3.233		19.1	20.0	-4.7	20.0
4-Isopropyltoluene	Ave	2.834	2.879		20.3	20.0	1.6	20.0
1,3-Dichlorobenzene	Ave	1.468	1.486	0.6000	20.2	20.0	1.2	20.0
1,4-Dichlorobenzene	Ave	1.478	1.473	0.5000	19.9	20.0	-0.3	20.0
Benzyl chloride	Ave	1.294	1.364		21.1	20.0	5.4	50.0
Indan	Ave	2.769	2.818		20.4	20.0	1.8	20.0
p-Diethylbenzene	Ave	1.703	1.785		21.0	20.0	4.8	20.0
n-Butylbenzene	Ave	3.213	3.301		20.5	20.0	2.7	20.0
1,2-Dichlorobenzene	Ave	1.527	1.548	0.4000	20.3	20.0	1.4	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.510	2.590		20.6	20.0	3.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1485	0.0500	19.5	20.0	-2.4	50.0
Camphor	Ave	0.0819	0.0827		101	100	1.1	20.0
1,2,4-Trichlorobenzene	Ave	1.158	1.252	0.2000	21.6	20.0	8.1	20.0
Hexachlorobutadiene	Ave	0.5987	0.5644		18.9	20.0	-5.7	20.0
Naphthalene	Ave	2.611	2.746		21.0	20.0	5.2	50.0
1,2,3-Trichlorobenzene	Ave	1.123	1.215		21.6	20.0	8.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289168/2 Calibration Date: 03/30/2015 19:20

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38304.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2792	0.3007		53.9	50.0	7.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2653	0.2793		52.6	50.0	5.3	20.0
Toluene-d8 (Surr)	Ave	1.340	1.338		49.9	50.0	-0.2	20.0
4-Bromofluorobenzene	Ave	0.3979	0.4463		56.1	50.0	12.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290056/2 Calibration Date: 04/03/2015 05:29

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38487.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0463	0.0400		17.3	20.0	-13.6	20.0
Dichlorodifluoromethane	Ave	0.3402	0.3581	0.1000	21.0	20.0	5.2	20.0
Chloromethane	Ave	0.2677	0.1670	0.1000	12.5	20.0	-37.6*	20.0
Vinyl chloride	Ave	0.2342	0.1533	0.1000	13.1	20.0	-34.5*	20.0
Butadiene	Ave	0.1988	0.1211		12.2	20.0	-39.1*	20.0
Bromomethane	Ave	0.1472	0.1234	0.1000	16.8	20.0	-16.2	50.0
Chloroethane	Ave	1.251	0.9566	0.1000	15.3	20.0	-23.5	50.0
Dichlorofluoromethane	QuaF		0.3565		19.6	20.0	-1.8	20.0
Trichlorofluoromethane	QuaF		0.3751	0.1000	22.2	20.0	11.2	20.0
Pentane	Ave	0.0449	0.0459		40.8	40.0	2.1	20.0
Ethanol	Ave	0.0232	0.0294		1270	1000	27.0	50.0
Ethyl ether	Ave	0.2191	0.2126		19.4	20.0	-3.0	20.0
2-Methyl-1,3-butadiene	Ave	0.2438	0.2664		21.9	20.0	9.3	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2303	0.2761		24.0	20.0	19.9	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2630	0.3012	0.1000	22.9	20.0	14.5	20.0
Acrolein	Ave	0.3641	0.3493		288	300	-4.1	50.0
1,1-Dichloroethene	Ave	0.2950	0.3476	0.1000	23.6	20.0	17.8	20.0
Acetone	Ave	0.8462	1.240	0.0500	147	100	46.6	50.0
Iodomethane	Ave	0.5858	0.7364		25.1	20.0	25.7*	20.0
Isopropyl alcohol	Ave	0.4111	0.5055		246	200	23.0	50.0
Carbon disulfide	Ave	1.104	1.366	0.1000	24.8	20.0	23.8	50.0
Allyl chloride	Ave	0.1835	0.2065		22.5	20.0	12.5	20.0
Methyl acetate	Ave	0.2253	0.2078	0.1000	92.2	100	-7.8	20.0
Cyclopentene	Ave	0.8019	0.9294		23.2	20.0	15.9	20.0
Acetonitrile	QuaF		1.122		270	200	35.2*	20.0
Methylene Chloride	Ave	0.3545	0.3907	0.1000	22.0	20.0	10.2	20.0
2-Methyl-2-propanol	Ave	0.9171	1.166		254	200	27.1	50.0
Methyl tert-butyl ether	Ave	0.8300	0.9412	0.1000	22.7	20.0	13.4	20.0
trans-1,2-Dichloroethene	Ave	0.3199	0.3801	0.1000	23.8	20.0	18.8	20.0
Acrylonitrile	Ave	0.0895	0.0957		214	200	6.9	20.0
Hexane	Ave	0.2211	0.2059		18.6	20.0	-6.9	20.0
Isopropyl ether	Ave	1.011	1.051		20.8	20.0	3.9	20.0
1,1-Dichloroethane	Ave	0.5397	0.5854	0.2000	21.7	20.0	8.5	20.0
Allyl alcohol	QuaF		0.0948		1360	500	172.4*	50.0
Vinyl acetate	Ave	0.1482	0.1284		34.6	40.0	-13.4	20.0
2-Chloro-1,3-butadiene	Ave	0.2525	0.2912		23.1	20.0	15.3	20.0
Tert-butyl ethyl ether	Ave	0.9680	1.116		23.1	20.0	15.3	20.0
2,2-Dichloropropane	Ave	0.1182	0.1416		24.0	20.0	19.8	20.0
cis-1,2-Dichloroethene	Ave	0.3316	0.3802	0.1000	22.9	20.0	14.6	20.0
2-Butanone (MEK)	Ave	0.3010	0.3916	0.0500	130	100	30.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290056/2 Calibration Date: 04/03/2015 05:29

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38487.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Ethyl acetate	Ave	4.588	5.051		44.0	40.0	10.1	20.0	
Methyl acrylate	Ave	0.1865	0.1715		18.4	20.0	-8.1	20.0	
Propionitrile	Ave	1.420	1.516		214	200	6.8	20.0	
Chlorobromomethane	Ave	0.1646	0.1971		23.9	20.0	19.7	20.0	
Tetrahydrofuran	Ave	0.3321	0.4105		49.4	40.0	23.6*	20.0	
Methacrylonitrile	Ave	0.0911	0.0976		214	200	7.1	20.0	
Chloroform	Ave	0.5023	0.5786	0.2000	23.0	20.0	15.2	20.0	
Cyclohexane	Ave	0.4475	0.4983	0.1000	22.3	20.0	11.4	50.0	
1,1,1-Trichloroethane	Ave	0.3972	0.5004	0.1000	25.2	20.0	26.0*	20.0	+
Carbon tetrachloride	Ave	0.3664	0.4663	0.1000	25.4	20.0	27.2*	20.0	+
1,1-Dichloropropene	Ave	0.3492	0.3754		21.5	20.0	7.5	20.0	
Isobutyl alcohol	Ave	1.378	0.3324		121	500	-75.9*	50.0	
Benzene	Ave	1.678	1.686	0.5000	20.1	20.0	0.5	20.0	
Isopropyl acetate	Ave	0.6883	0.7090		20.6	20.0	3.0	20.0	
Tert-amyl methyl ether	Ave	0.9341	1.115		23.9	20.0	19.4	20.0	
1,2-Dichloroethane	Ave	0.3337	0.3513	0.1000	21.1	20.0	5.3	20.0	
n-Heptane	Ave	0.2113	0.2170		20.5	20.0	2.7	20.0	
2,4,4-Trimethyl-1-pentene	Ave	0.5332	0.6120		45.9	40.0	14.8	20.0	
n-Butanol	Ave	0.2199	0.1934		440	500	-12.0	50.0	
Trichloroethene	Ave	0.2736	0.3066	0.2000	22.4	20.0	12.1	20.0	
Ethyl acrylate	Ave	0.5618	0.6281		22.4	20.0	11.8	20.0	
Methylcyclohexane	Ave	0.4335	0.5635	0.1000	26.0	20.0	30.0	50.0	+
1,2-Dichloropropane	Ave	0.2451	0.2504	0.1000	20.4	20.0	2.1	20.0	
Methyl methacrylate	Ave	0.1545	0.1431		37.0	40.0	-7.4	20.0	
1,4-Dioxane	Ave	1.186	1.329		448	400	12.1	50.0	
n-Propyl acetate	Ave	0.2663	0.2382		17.9	20.0	-10.6	20.0	
Dibromomethane	Ave	0.1658	0.1860		22.4	20.0	12.2	20.0	
Dichlorobromomethane	Ave	0.3442	0.3712	0.2000	21.6	20.0	7.9	20.0	
2-Chloroethyl vinyl ether	Ave	0.1069	0.1001		18.7	20.0	-6.4	20.0	
2-Nitropropane	Ave	0.0469	0.0466		39.7	40.0	-0.7	20.0	
Epichlorohydrin	Ave	0.2022	0.2586		512	400	27.9*	20.0	
cis-1,3-Dichloropropene	Ave	0.5685	0.5376	0.2000	18.9	20.0	-5.4	50.0	
4-Methyl-2-pentanone (MIBK)	Ave	2.098	2.600	0.0500	124	100	23.9	50.0	+
Toluene	Ave	1.544	1.625	0.4000	21.0	20.0	5.2	20.0	
trans-1,3-Dichloropropene	Ave	0.4323	0.4137	0.1000	19.1	20.0	-4.3	50.0	
Ethyl methacrylate	Ave	0.3430	0.3339		19.5	20.0	-2.7	20.0	
1,1,2-Trichloroethane	Ave	0.2550	0.2462	0.1000	19.3	20.0	-3.5	20.0	
Tetrachloroethene	Ave	0.4196	0.4772	0.2000	22.7	20.0	13.7	20.0	
1,3-Dichloropropane	Ave	0.4683	0.4364		18.6	20.0	-6.8	20.0	
2-Hexanone	Ave	1.280	1.548	0.0500	121	100	20.9	50.0	+
n-Butyl acetate	Ave	0.3798	0.3102		16.3	20.0	-18.3	20.0	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290056/2 Calibration Date: 04/03/2015 05:29

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38487.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3728	0.3912	0.1000	21.0	20.0	4.9	50.0
Ethylene Dibromide	Ave	0.3065	0.3042	0.1000	19.8	20.0	-0.8	20.0
Chlorobenzene	Ave	0.9844	1.051	0.5000	21.3	20.0	6.7	20.0
Ethylbenzene	Ave	0.5188	0.5733	0.1000	22.1	20.0	10.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3843	0.4540		23.6	20.0	18.1	20.0
m-Xylene & p-Xylene	Ave	0.6269	0.6912	0.1000	22.0	20.0	10.2	20.0
n-Butyl acrylate	Ave	0.1971	0.1949		19.8	20.0	-1.1	20.0
o-Xylene	Ave	0.6561	0.7818	0.3000	23.8	20.0	19.2	20.0
Styrene	Ave	0.9645	1.111	0.3000	23.0	20.0	15.2	20.0
Amyl acetate (mixed isomers)	Ave	0.8965	0.7527		16.8	20.0	-16.0	20.0
Bromoform	Ave	0.2443	0.2737	0.1000	22.4	20.0	12.0	20.0
Isopropylbenzene	Ave	1.653	2.067	0.1000	25.0	20.0	25.0*	20.0
Camphene	Ave	0.1266	0.1183		18.7	20.0	-6.5	20.0
Bromobenzene	Ave	0.8628	0.8793		20.4	20.0	1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7770	0.7574	0.3000	19.5	20.0	-2.5	20.0
N-Propylbenzene	Ave	3.781	3.963		21.0	20.0	4.8	20.0
1,2,3-Trichloropropane	Ave	0.2057	0.2056		20.0	20.0	-0.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1858	0.1572		16.9	20.0	-15.4	20.0
2-Chlorotoluene	Ave	2.549	2.751		21.6	20.0	7.9	20.0
4-Ethyltoluene	Ave	3.082	3.375		21.9	20.0	9.5	20.0
1,3,5-Trimethylbenzene	Ave	2.697	3.024		22.4	20.0	12.1	20.0
4-Chlorotoluene	Ave	2.188	2.225		20.3	20.0	1.7	20.0
Butyl Methacrylate	Ave	0.7746	0.7837		20.2	20.0	1.2	20.0
tert-Butylbenzene	Ave	2.109	2.220		21.0	20.0	5.2	20.0
1,2,4-Trimethylbenzene	Ave	2.720	3.052		22.4	20.0	12.2	20.0
sec-Butylbenzene	Ave	3.392	3.749		22.1	20.0	10.5	20.0
4-Isopropyltoluene	Ave	2.834	3.328		23.5	20.0	17.5	20.0
1,3-Dichlorobenzene	Ave	1.468	1.658	0.6000	22.6	20.0	12.9	20.0
1,4-Dichlorobenzene	Ave	1.478	1.629	0.5000	22.0	20.0	10.2	20.0
Benzyl chloride	Ave	1.294	1.408		21.8	20.0	8.8	50.0
Indan	Ave	2.769	3.154		22.8	20.0	13.9	20.0
p-Diethylbenzene	Ave	1.703	2.048		24.0	20.0	20.2*	20.0
n-Butylbenzene	Ave	3.213	3.660		22.8	20.0	13.9	20.0
1,2-Dichlorobenzene	Ave	1.527	1.712	0.4000	22.4	20.0	12.1	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.510	2.911		23.2	20.0	16.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1478	0.0500	19.4	20.0	-2.8	50.0
Camphor	Ave	0.0819	0.0809		98.9	100	-1.1	20.0
1,2,4-Trichlorobenzene	Ave	1.158	1.370	0.2000	23.7	20.0	18.3	20.0
Hexachlorobutadiene	Ave	0.5987	0.7066		23.6	20.0	18.0	20.0
Naphthalene	Ave	2.611	2.800		21.4	20.0	7.2	50.0
1,2,3-Trichlorobenzene	Ave	1.123	1.307		23.3	20.0	16.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290056/2 Calibration Date: 04/03/2015 05:29

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38487.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2792	0.3091		55.4	50.0	10.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2653	0.2760		52.0	50.0	4.0	20.0
Toluene-d8 (Surr)	Ave	1.340	1.344		50.1	50.0	0.3	20.0
4-Bromofluorobenzene	Ave	0.3979	0.4556		57.3	50.0	14.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290386/2 Calibration Date: 04/05/2015 05:34

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38570.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D	
Chlorotrifluoroethene	Ave	0.0463	0.0465		20.1	20.0	0.3	20.0	
Dichlorodifluoromethane	Ave	0.3402	0.4016	0.1000	23.6	20.0	18.0	20.0	
Chloromethane	Ave	0.2677	0.1789	0.1000	13.4	20.0	-33.2*	20.0	
Vinyl chloride	Ave	0.2342	0.1641	0.1000	14.0	20.0	-29.9*	20.0	
Butadiene	Ave	0.1988	0.1279		12.9	20.0	-35.7*	20.0	
Bromomethane	Ave	0.1472	0.1685	0.1000	22.9	20.0	14.5	50.0	
Chloroethane	Ave	1.251	1.370	0.1000	21.9	20.0	9.5	50.0	
Dichlorofluoromethane	QuaF		0.6613		36.2	20.0	81.1*	20.0	+
Trichlorofluoromethane	QuaF		0.6153	0.1000	36.5	20.0	82.5*	20.0	+
Pentane	Ave	0.0449	0.0402		35.8	40.0	-10.5	20.0	
Ethanol	Ave	0.0232	0.0230		992	1000	-0.8	50.0	
Ethyl ether	Ave	0.2191	0.1834		16.7	20.0	-16.3	20.0	
2-Methyl-1,3-butadiene	Ave	0.2438	0.2248		18.4	20.0	-7.8	20.0	
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2303	0.2580		22.4	20.0	12.1	20.0	
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2630	0.2806	0.1000	21.3	20.0	6.7	20.0	
Acrolein	Ave	0.3641	0.3375		278	300	-7.3	50.0	
1,1-Dichloroethene	Ave	0.2950	0.3072	0.1000	20.8	20.0	4.2	20.0	
Acetone	Ave	0.8462	1.207	0.0500	143	100	42.7	50.0	+
Iodomethane	Ave	0.5858	0.6823		23.3	20.0	16.5	20.0	
Isopropyl alcohol	Ave	0.4111	0.4035		196	200	-1.8	50.0	
Carbon disulfide	Ave	1.104	1.202	0.1000	21.8	20.0	8.9	50.0	
Allyl chloride	Ave	0.1835	0.1874		20.4	20.0	2.1	20.0	
Methyl acetate	Ave	0.2253	0.1734	0.1000	77.0	100	-23.0*	20.0	
Cyclopentene	Ave	0.8019	0.7958		19.8	20.0	-0.8	20.0	
Acetonitrile	QuaF		0.8289		200	200	-0.1	20.0	
Methylene Chloride	Ave	0.3545	0.3599	0.1000	20.3	20.0	1.5	20.0	
2-Methyl-2-propanol	Ave	0.9171	0.9557		208	200	4.2	50.0	
Methyl tert-butyl ether	Ave	0.8300	0.8347	0.1000	20.1	20.0	0.6	20.0	
trans-1,2-Dichloroethene	Ave	0.3199	0.3555	0.1000	22.2	20.0	11.1	20.0	
Acrylonitrile	Ave	0.0895	0.0812		181	200	-9.3	20.0	
Hexane	Ave	0.2211	0.1687		15.3	20.0	-23.7*	20.0	
Isopropyl ether	Ave	1.011	0.8559		16.9	20.0	-15.3	20.0	
1,1-Dichloroethane	Ave	0.5397	0.5173	0.2000	19.2	20.0	-4.2	20.0	
Vinyl acetate	Ave	0.1482	0.1105		29.8	40.0	-25.5*	20.0	
Allyl alcohol	QuaF		0.0806		1190	500	138.3*	50.0	
2-Chloro-1,3-butadiene	Ave	0.2525	0.2590		20.5	20.0	2.6	20.0	
Tert-butyl ethyl ether	Ave	0.9680	0.997		20.6	20.0	3.0	20.0	
2,2-Dichloropropane	Ave	0.1182	0.1320		22.3	20.0	11.7	20.0	
cis-1,2-Dichloroethene	Ave	0.3316	0.3463	0.1000	20.9	20.0	4.4	20.0	
2-Butanone (MEK)	Ave	0.3010	0.3932	0.0500	131	100	30.7	50.0	+

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290386/2 Calibration Date: 04/05/2015 05:34

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38570.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	4.588	4.623		40.3	40.0	0.8	20.0
Methyl acrylate	Ave	0.1865	0.1495		16.0	20.0	-19.8	20.0
Propionitrile	Ave	1.420	1.278		180	200	-10.0	20.0
Tetrahydrofuran	Ave	0.3321	0.3952		47.6	40.0	19.0	20.0
Chlorobromomethane	Ave	0.1646	0.1885		22.9	20.0	14.5	20.0
Methacrylonitrile	Ave	0.0911	0.0849		186	200	-6.8	20.0
Chloroform	Ave	0.5023	0.5415	0.2000	21.6	20.0	7.8	20.0
Cyclohexane	Ave	0.4475	0.4101	0.1000	18.3	20.0	-8.4	50.0
1,1,1-Trichloroethane	Ave	0.3972	0.4763	0.1000	24.0	20.0	19.9	20.0
Carbon tetrachloride	Ave	0.3664	0.4579	0.1000	25.0	20.0	25.0*	20.0
1,1-Dichloropropene	Ave	0.3492	0.3335		19.1	20.0	-4.5	20.0
Isobutyl alcohol	Ave	1.378	0.2419		87.8	500	-82.4*	50.0
Benzene	Ave	1.678	1.453	0.5000	17.3	20.0	-13.4	20.0
Isopropyl acetate	Ave	0.6883	0.6074		17.6	20.0	-11.8	20.0
Tert-amyl methyl ether	Ave	0.9341	1.003		21.5	20.0	7.4	20.0
1,2-Dichloroethane	Ave	0.3337	0.3398	0.1000	20.4	20.0	1.8	20.0
n-Heptane	Ave	0.2113	0.1818		17.2	20.0	-13.9	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.5332	0.5097		38.2	40.0	-4.4	20.0
n-Butanol	Ave	0.2199	0.1609		366	500	-26.8	50.0
Trichloroethene	Ave	0.2736	0.2837	0.2000	20.7	20.0	3.7	20.0
Ethyl acrylate	Ave	0.5618	0.5338		19.0	20.0	-5.0	20.0
Methylcyclohexane	Ave	0.4335	0.4910	0.1000	22.6	20.0	13.2	50.0
1,2-Dichloropropane	Ave	0.2451	0.2178	0.1000	17.8	20.0	-11.1	20.0
Methyl methacrylate	Ave	0.1545	0.1186		30.7	40.0	-23.3*	20.0
1,4-Dioxane	Ave	1.186	1.265		427	400	6.7	50.0
n-Propyl acetate	Ave	0.2663	0.1944		14.6	20.0	-27.0*	20.0
Dibromomethane	Ave	0.1658	0.1692		20.4	20.0	2.1	20.0
Dichlorobromomethane	Ave	0.3442	0.3482	0.2000	20.2	20.0	1.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1069	0.0818		15.3	20.0	-23.4*	20.0
2-Nitropropane	Ave	0.0469	0.0424		36.2	40.0	-9.5	20.0
Epichlorohydrin	Ave	0.2022	0.2381		471	400	17.8	20.0
cis-1,3-Dichloropropene	Ave	0.5685	0.4680	0.2000	16.5	20.0	-17.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.098	2.250	0.0500	107	100	7.2	50.0
Toluene	Ave	1.544	1.411	0.4000	18.3	20.0	-8.6	20.0
trans-1,3-Dichloropropene	Ave	0.4323	0.3569	0.1000	16.5	20.0	-17.4	50.0
Ethyl methacrylate	Ave	0.3430	0.2716		15.8	20.0	-20.8*	20.0
1,1,2-Trichloroethane	Ave	0.2550	0.2121	0.1000	16.6	20.0	-16.8	20.0
Tetrachloroethene	Ave	0.4196	0.4373	0.2000	20.8	20.0	4.2	20.0
1,3-Dichloropropane	Ave	0.4683	0.3772		16.1	20.0	-19.5	20.0
2-Hexanone	Ave	1.280	1.398	0.0500	109	100	9.2	50.0
n-Butyl acetate	Ave	0.3798	0.2484		13.1	20.0	-34.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290386/2 Calibration Date: 04/05/2015 05:34

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38570.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3728	0.3531	0.1000	18.9	20.0	-5.3	50.0
Ethylene Dibromide	Ave	0.3065	0.2686	0.1000	17.5	20.0	-12.4	20.0
Chlorobenzene	Ave	0.9844	0.9173	0.5000	18.6	20.0	-6.8	20.0
Ethylbenzene	Ave	0.5188	0.5024	0.1000	19.4	20.0	-3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3843	0.4038		21.0	20.0	5.1	20.0
m-Xylene & p-Xylene	Ave	0.6269	0.6008	0.1000	19.2	20.0	-4.2	20.0
n-Butyl acrylate	Ave	0.1971	0.1569		15.9	20.0	-20.4*	20.0
o-Xylene	Ave	0.6561	0.6649	0.3000	20.3	20.0	1.3	20.0
Styrene	Ave	0.9645	0.9592	0.3000	19.9	20.0	-0.5	20.0
Amyl acetate (mixed isomers)	Ave	0.8965	0.5405		12.1	20.0	-39.7*	20.0
Bromoform	Ave	0.2443	0.2554	0.1000	20.9	20.0	4.5	20.0
Isopropylbenzene	Ave	1.653	1.744	0.1000	21.1	20.0	5.5	20.0
Camphene	Ave	0.1266	0.1036		16.4	20.0	-18.1	20.0
Bromobenzene	Ave	0.8628	0.7871		18.2	20.0	-8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7770	0.5971	0.3000	15.4	20.0	-23.2*	20.0
N-Propylbenzene	Ave	3.781	3.324		17.6	20.0	-12.1	20.0
1,2,3-Trichloropropane	Ave	0.2057	0.1753		17.0	20.0	-14.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1858	0.1317		14.2	20.0	-29.1*	20.0
2-Chlorotoluene	Ave	2.549	2.343		18.4	20.0	-8.1	20.0
4-Ethyltoluene	Ave	3.082	2.892		18.8	20.0	-6.2	20.0
1,3,5-Trimethylbenzene	Ave	2.697	2.530		18.8	20.0	-6.2	20.0
4-Chlorotoluene	Ave	2.188	1.944		17.8	20.0	-11.2	20.0
Butyl Methacrylate	Ave	0.7746	0.6096		15.7	20.0	-21.3*	20.0
tert-Butylbenzene	Ave	2.109	1.884		17.9	20.0	-10.7	20.0
1,2,4-Trimethylbenzene	Ave	2.720	2.595		19.1	20.0	-4.6	20.0
sec-Butylbenzene	Ave	3.392	3.160		18.6	20.0	-6.8	20.0
4-Isopropyltoluene	Ave	2.834	2.811		19.8	20.0	-0.8	20.0
1,3-Dichlorobenzene	Ave	1.468	1.462	0.6000	19.9	20.0	-0.4	20.0
1,4-Dichlorobenzene	Ave	1.478	1.407	0.5000	19.0	20.0	-4.8	20.0
Benzyl chloride	Ave	1.294	1.171		18.1	20.0	-9.5	50.0
Indan	Ave	2.769	2.616		18.9	20.0	-5.5	20.0
p-Diethylbenzene	Ave	1.703	1.684		19.8	20.0	-1.1	20.0
n-Butylbenzene	Ave	3.213	2.991		18.6	20.0	-6.9	20.0
1,2-Dichlorobenzene	Ave	1.527	1.430	0.4000	18.7	20.0	-6.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.510	2.439		19.4	20.0	-2.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1275	0.0500	16.8	20.0	-16.2	50.0
Camphor	Ave	0.0819	0.0637		77.8	100	-22.2*	20.0
1,2,4-Trichlorobenzene	Ave	1.158	1.194	0.2000	20.6	20.0	3.1	20.0
Hexachlorobutadiene	Ave	0.5987	0.6611		22.1	20.0	10.4	20.0
Naphthalene	Ave	2.611	2.311		17.7	20.0	-11.5	50.0
1,2,3-Trichlorobenzene	Ave	1.123	1.128		20.1	20.0	0.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290386/2 Calibration Date: 04/05/2015 05:34

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38570.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2792	0.3301		59.1	50.0	18.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2653	0.2934		55.3	50.0	10.6	20.0
Toluene-d8 (Surr)	Ave	1.340	1.346		50.2	50.0	0.4	20.0
4-Bromofluorobenzene	Ave	0.3979	0.4743		59.6	50.0	19.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290757/4 Calibration Date: 04/07/2015 12:14

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38654.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0463	0.0548		23.6	20.0	18.2	20.0
Dichlorodifluoromethane	Ave	0.3402	0.2761	0.1000	16.2	20.0	-18.9	20.0
Chloromethane	Ave	0.2677	0.2486	0.1000	18.6	20.0	-7.1	20.0
Vinyl chloride	Ave	0.2342	0.2234	0.1000	19.1	20.0	-4.6	20.0
Butadiene	Ave	0.1988	0.1770		17.8	20.0	-11.0	20.0
Bromomethane	Ave	0.1472	0.1819	0.1000	24.7	20.0	23.6	50.0
Chloroethane	Ave	1.251	1.480	0.1000	23.7	20.0	18.3	50.0
Dichlorofluoromethane	QuaF		0.3953		21.8	20.0	8.8	20.0
Trichlorofluoromethane	QuaF		0.2915	0.1000	17.3	20.0	-13.6	20.0
Pentane	Ave	0.0449	0.0450		40.1	40.0	0.2	20.0
Ethanol	Ave	0.0232	0.0348		1500	1000	50.0	50.0
Ethyl ether	Ave	0.2191	0.1993		18.2	20.0	-9.1	20.0
2-Methyl-1,3-butadiene	Ave	0.2438	0.2592		21.3	20.0	6.3	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2303	0.2268		19.7	20.0	-1.5	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2630	0.2642	0.1000	20.1	20.0	0.4	20.0
Acrolein	Ave	0.3641	0.3641		300	300	0.0	50.0
1,1-Dichloroethene	Ave	0.2950	0.3076	0.1000	20.9	20.0	4.3	20.0
Acetone	Ave	0.8462	1.212	0.0500	143	100	43.3	50.0
Iodomethane	Ave	0.5858	0.5906		20.2	20.0	0.8	20.0
Isopropyl alcohol	Ave	0.4111	0.5019		244	200	22.1	50.0
Carbon disulfide	Ave	1.104	1.290	0.1000	23.4	20.0	16.9	50.0
Allyl chloride	Ave	0.1835	0.2019		22.0	20.0	10.0	20.0
Methyl acetate	Ave	0.2253	0.2176	0.1000	96.6	100	-3.4	20.0
Cyclopentene	Ave	0.8019	0.8965		22.4	20.0	11.8	20.0
Acetonitrile	QuaF		1.302		314	200	56.8*	20.0
Methylene Chloride	Ave	0.3545	0.3917	0.1000	22.1	20.0	10.5	20.0
2-Methyl-2-propanol	Ave	0.9171	1.117		244	200	21.8	50.0
Methyl tert-butyl ether	Ave	0.8300	0.8673	0.1000	20.9	20.0	4.5	20.0
trans-1,2-Dichloroethene	Ave	0.3199	0.3387	0.1000	21.2	20.0	5.9	20.0
Acrylonitrile	Ave	0.0895	0.1016		227	200	13.5	20.0
Hexane	Ave	0.2211	0.2021		18.3	20.0	-8.6	20.0
Isopropyl ether	Ave	1.011	1.145		22.6	20.0	13.2	20.0
1,1-Dichloroethane	Ave	0.5397	0.5776	0.2000	21.4	20.0	7.0	20.0
Vinyl acetate	Ave	0.1482	0.1342		36.2	40.0	-9.5	20.0
Allyl alcohol	QuaF		0.0752		1120	500	124.9*	50.0
2-Chloro-1,3-butadiene	Ave	0.2525	0.2552		20.2	20.0	1.0	20.0
Tert-butyl ethyl ether	Ave	0.9680	1.121		23.2	20.0	15.8	20.0
2,2-Dichloropropane	Ave	0.1182	0.1285		21.7	20.0	8.7	20.0
cis-1,2-Dichloroethene	Ave	0.3316	0.3411	0.1000	20.6	20.0	2.9	20.0
2-Butanone (MEK)	Ave	0.3010	0.3458	0.0500	115	100	14.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290757/4 Calibration Date: 04/07/2015 12:14

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38654.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	4.588	4.792		41.8	40.0	4.5	20.0
Methyl acrylate	Ave	0.1865	0.1747		18.7	20.0	-6.3	20.0
Propionitrile	Ave	1.420	1.606		226	200	13.1	20.0
Chlorobromomethane	Ave	0.1646	0.1644		20.0	20.0	-0.1	20.0
Tetrahydrofuran	Ave	0.3321	0.3596		43.3	40.0	8.3	20.0
Methacrylonitrile	Ave	0.0911	0.0939		206	200	3.1	20.0
Chloroform	Ave	0.5023	0.5221	0.2000	20.8	20.0	3.9	20.0
Cyclohexane	Ave	0.4475	0.5049	0.1000	22.6	20.0	12.8	50.0
1,1,1-Trichloroethane	Ave	0.3972	0.4218	0.1000	21.2	20.0	6.2	20.0
Carbon tetrachloride	Ave	0.3664	0.3632	0.1000	19.8	20.0	-0.9	20.0
1,1-Dichloropropene	Ave	0.3492	0.3351		19.2	20.0	-4.1	20.0
Isobutyl alcohol	Ave	1.378	0.3666		133	500	-73.4*	50.0
Benzene	Ave	1.678	1.687	0.5000	20.1	20.0	0.6	20.0
Isopropyl acetate	Ave	0.6883	0.7017		20.4	20.0	1.9	20.0
Tert-amyl methyl ether	Ave	0.9341	1.039		22.2	20.0	11.2	20.0
1,2-Dichloroethane	Ave	0.3337	0.3206	0.1000	19.2	20.0	-3.9	20.0
n-Heptane	Ave	0.2113	0.2170		20.5	20.0	2.7	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.5332	0.6479		48.6	40.0	21.5*	20.0
n-Butanol	Ave	0.2199	0.1855		422	500	-15.6	50.0
Trichloroethene	Ave	0.2736	0.2539	0.2000	18.6	20.0	-7.2	20.0
Ethyl acrylate	Ave	0.5618	0.6106		21.7	20.0	8.7	20.0
Methylcyclohexane	Ave	0.4335	0.5014	0.1000	23.1	20.0	15.7	50.0
1,2-Dichloropropane	Ave	0.2451	0.2599	0.1000	21.2	20.0	6.0	20.0
Methyl methacrylate	Ave	0.1545	0.1462		37.8	40.0	-5.4	20.0
1,4-Dioxane	Ave	1.186	1.334		450	400	12.5	50.0
n-Propyl acetate	Ave	0.2663	0.2437		18.3	20.0	-8.5	20.0
Dibromomethane	Ave	0.1658	0.1642		19.8	20.0	-0.9	20.0
Dichlorobromomethane	Ave	0.3442	0.3400	0.2000	19.8	20.0	-1.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1069	0.0972		18.2	20.0	-9.1	20.0
2-Nitropropane	Ave	0.0469	0.0425		36.3	40.0	-9.2	20.0
Epichlorohydrin	Ave	0.2022	0.2306		456	400	14.1	20.0
cis-1,3-Dichloropropene	Ave	0.5685	0.5403	0.2000	19.0	20.0	-5.0	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.098	2.442	0.0500	116	100	16.4	50.0
Toluene	Ave	1.544	1.543	0.4000	20.0	20.0	-0.0	20.0
trans-1,3-Dichloropropene	Ave	0.4323	0.4089	0.1000	18.9	20.0	-5.4	50.0
Ethyl methacrylate	Ave	0.3430	0.3442		20.1	20.0	0.3	20.0
1,1,2-Trichloroethane	Ave	0.2550	0.2482	0.1000	19.5	20.0	-2.7	20.0
Tetrachloroethene	Ave	0.4196	0.3630	0.2000	17.3	20.0	-13.5	20.0
1,3-Dichloropropane	Ave	0.4683	0.4591		19.6	20.0	-2.0	20.0
2-Hexanone	Ave	1.280	1.500	0.0500	117	100	17.1	50.0
n-Butyl acetate	Ave	0.3798	0.3546		18.7	20.0	-6.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290757/4 Calibration Date: 04/07/2015 12:14

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38654.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3728	0.3325	0.1000	17.8	20.0	-10.8	50.0
Ethylene Dibromide	Ave	0.3065	0.2839	0.1000	18.5	20.0	-7.4	20.0
Chlorobenzene	Ave	0.9844	0.9661	0.5000	19.6	20.0	-1.9	20.0
Ethylbenzene	Ave	0.5188	0.5484	0.1000	21.1	20.0	5.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3843	0.3850		20.0	20.0	0.2	20.0
m-Xylene & p-Xylene	Ave	0.6269	0.6480	0.1000	20.7	20.0	3.4	20.0
n-Butyl acrylate	Ave	0.1971	0.2119		21.5	20.0	7.5	20.0
o-Xylene	Ave	0.6561	0.7220	0.3000	22.0	20.0	10.0	20.0
Styrene	Ave	0.9645	1.037	0.3000	21.5	20.0	7.5	20.0
Amyl acetate (mixed isomers)	Ave	0.8965	0.9569		21.3	20.0	6.7	20.0
Bromoform	Ave	0.2443	0.2043	0.1000	16.7	20.0	-16.4	20.0
Isopropylbenzene	Ave	1.653	1.799	0.1000	21.8	20.0	8.8	20.0
Camphene	Ave	0.1266	0.1107		17.5	20.0	-12.6	20.0
Bromobenzene	Ave	0.8628	0.8012		18.6	20.0	-7.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7770	0.8442	0.3000	21.7	20.0	8.6	20.0
N-Propylbenzene	Ave	3.781	4.136		21.9	20.0	9.4	20.0
1,2,3-Trichloropropane	Ave	0.2057	0.2080		20.2	20.0	1.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1858	0.1775		19.1	20.0	-4.5	20.0
2-Chlorotoluene	Ave	2.549	2.806		22.0	20.0	10.1	20.0
4-Ethyltoluene	Ave	3.082	3.412		22.1	20.0	10.7	20.0
1,3,5-Trimethylbenzene	Ave	2.697	2.813		20.9	20.0	4.3	20.0
4-Chlorotoluene	Ave	2.188	2.311		21.1	20.0	5.6	20.0
Butyl Methacrylate	Ave	0.7746	0.8770		22.6	20.0	13.2	20.0
tert-Butylbenzene	Ave	2.109	1.954		18.5	20.0	-7.4	20.0
1,2,4-Trimethylbenzene	Ave	2.720	2.984		21.9	20.0	9.7	20.0
sec-Butylbenzene	Ave	3.392	3.638		21.5	20.0	7.3	20.0
4-Isopropyltoluene	Ave	2.834	3.049		21.5	20.0	7.6	20.0
1,3-Dichlorobenzene	Ave	1.468	1.527	0.6000	20.8	20.0	4.0	20.0
1,4-Dichlorobenzene	Ave	1.478	1.545	0.5000	20.9	20.0	4.5	20.0
Benzyl chloride	Ave	1.294	1.410		21.8	20.0	8.9	50.0
Indan	Ave	2.769	3.071		22.2	20.0	10.9	20.0
p-Diethylbenzene	Ave	1.703	1.930		22.7	20.0	13.3	20.0
n-Butylbenzene	Ave	3.213	3.745		23.3	20.0	16.5	20.0
1,2-Dichlorobenzene	Ave	1.527	1.554	0.4000	20.4	20.0	1.8	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.510	2.659		21.2	20.0	6.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1521	0.1418	0.0500	18.6	20.0	-6.8	50.0
Camphor	Ave	0.0819	0.0765		93.4	100	-6.6	20.0
1,2,4-Trichlorobenzene	Ave	1.158	1.121	0.2000	19.4	20.0	-3.2	20.0
Hexachlorobutadiene	Ave	0.5987	0.4527		15.1	20.0	-24.4*	20.0
Naphthalene	Ave	2.611	2.648		20.3	20.0	1.4	50.0
1,2,3-Trichlorobenzene	Ave	1.123	1.081		19.2	20.0	-3.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290757/4 Calibration Date: 04/07/2015 12:14

Instrument ID: CVOAMS9 Calib Start Date: 03/17/2015 23:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 03/18/2015 04:05

Lab File ID: K38654.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2792	0.2817		50.5	50.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2653	0.2540		47.9	50.0	-4.3	20.0
Toluene-d8 (Surr)	Ave	1.340	1.346		50.2	50.0	0.4	20.0
4-Bromofluorobenzene	Ave	0.3979	0.3840		48.3	50.0	-3.5	20.0

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38278.D

Lab ID: LCS 460-289045/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.6	108	74-128	
1,1-Dichloroethane	20.0	21.4	107	78-125	
2-Butanone (MEK)	100	112	112	58-140	
1,1,1-Trichloroethane	20.0	22.8	114	82-129	
Acetone	100	141	141	58-139	*
1,2-Dichloropropane	20.0	20.0	100	72-123	
Bromomethane	20.0	12.8	64	62-150	
Carbon disulfide	20.0	21.8	109	73-127	
Carbon tetrachloride	20.0	22.5	112	77-137	
1,1,2-Trichloroethane	20.0	19.4	97	74-116	
Benzene	20.0	19.8	99	75-123	
Chlorodibromomethane	20.0	18.8	94	74-124	
Bromoform	20.0	20.1	100	70-130	
Chloroethane	20.0	13.4	67	60-140	
4-Methyl-2-pentanone (MIBK)	100	109	109	55-133	
Chloroform	20.0	21.6	108	77-122	
2-Hexanone	100	111	111	52-134	
Chloromethane	20.0	16.1	81	48-144	
cis-1,2-Dichloroethene	20.0	21.7	108	82-121	
1,1,2,2-Tetrachloroethane	20.0	19.7	98	66-121	
cis-1,3-Dichloropropene	20.0	18.7	93	75-119	
Chlorobenzene	20.0	19.8	99	80-120	
Dichlorobromomethane	20.0	20.0	100	77-122	
Ethylbenzene	20.0	20.6	103	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	73-134	
Methyl tert-butyl ether	20.0	21.9	109	75-124	
Cyclohexane	20.0	21.6	108	66-128	
Methylene Chloride	20.0	20.6	103	75-124	
Ethylene Dibromide	20.0	19.1	96	78-117	
m-Xylene & p-Xylene	20.0	20.4	102	79-120	
1,3-Dichlorobenzene	20.0	20.8	104	78-120	
o-Xylene	20.0	21.7	108	77-120	
1,4-Dichlorobenzene	20.0	20.4	102	77-120	
Styrene	20.0	20.6	103	78-120	
Tetrachloroethene	20.0	20.2	101	80-127	
Dichlorodifluoromethane	20.0	22.2	111	52-145	
Toluene	20.0	19.9	99	82-117	
1,2,4-Trichlorobenzene	20.0	21.5	108	81-127	
1,4-Dioxane	400	451	113	69-142	
trans-1,2-Dichloroethene	20.0	22.1	110	83-124	
1,2,3-Trichlorobenzene	20.0	21.5	108	81-123	

Column to be used to flag recovery and RPD values

QC only.

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38278.D

Lab ID: LCS 460-289045/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.5	92	74-119	
Trichloroethene	20.0	20.4	102	78-122	
Chlorobromomethane	20.0	21.2	106	82-127	
Trichlorofluoromethane	20.0	15.9	79	63-147	
Isopropylbenzene	20.0	22.3	112	80-120	
Vinyl chloride	20.0	13.2	66	62-132	
1,2-Dichloroethane	20.0	19.8	99	79-120	
Methyl acetate	100	101	101	61-137	
1,2-Dichlorobenzene	20.0	20.5	103	77-120	
Methylcyclohexane	20.0	23.6	118	80-125	
1,2-Dibromo-3-Chloropropane	20.0	19.9	99	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38279.D

Lab ID: LCSD 460-289045/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.7	109	1	30	74-128	
1,1-Dichloroethane	20.0	20.6	103	4	30	78-125	
2-Butanone (MEK)	100	107	107	5	30	58-140	
1,1,1-Trichloroethane	20.0	22.5	112	2	30	82-129	
Acetone	100	123	123	14	30	58-139	
1,2-Dichloropropane	20.0	19.6	98	2	30	72-123	
Bromomethane	20.0	16.2	81	23	30	62-150	
Carbon disulfide	20.0	21.7	109	0	30	73-127	
Carbon tetrachloride	20.0	22.2	111	1	30	77-137	
1,1,2-Trichloroethane	20.0	18.1	91	6	30	74-116	
Benzene	20.0	19.0	95	4	30	75-123	
Chlorodibromomethane	20.0	18.3	92	3	30	74-124	
Bromoform	20.0	19.1	95	5	30	70-130	
Chloroethane	20.0	14.3	71	7	30	60-140	
4-Methyl-2-pentanone (MIBK)	100	106	106	3	30	55-133	
Chloroform	20.0	21.1	105	3	30	77-122	
2-Hexanone	100	108	108	3	30	52-134	
Chloromethane	20.0	17.5	87	8	30	48-144	
cis-1,2-Dichloroethene	20.0	20.8	104	4	30	82-121	
1,1,2,2-Tetrachloroethane	20.0	18.0	90	9	30	66-121	
cis-1,3-Dichloropropene	20.0	17.7	89	5	30	75-119	
Chlorobenzene	20.0	19.2	96	3	30	80-120	
Dichlorobromomethane	20.0	19.0	95	5	30	77-122	
Ethylbenzene	20.0	20.4	102	1	30	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.5	102	3	30	73-134	
Methyl tert-butyl ether	20.0	20.8	104	5	30	75-124	
Cyclohexane	20.0	22.1	110	2	30	66-128	
Methylene Chloride	20.0	20.0	100	3	30	75-124	
Ethylene Dibromide	20.0	17.9	89	7	30	78-117	
m-Xylene & p-Xylene	20.0	20.4	102	0	30	79-120	
1,3-Dichlorobenzene	20.0	20.1	100	4	30	78-120	
o-Xylene	20.0	21.2	106	2	30	77-120	
1,4-Dichlorobenzene	20.0	19.6	98	4	30	77-120	
Styrene	20.0	20.7	103	1	30	78-120	
Tetrachloroethene	20.0	19.4	97	4	30	80-127	
Dichlorodifluoromethane	20.0	25.2	126	13	30	52-145	
Toluene	20.0	19.1	95	4	30	82-117	
1,2,4-Trichlorobenzene	20.0	20.1	101	7	30	81-127	
1,4-Dioxane	400	414	104	8	30	69-142	
trans-1,2-Dichloroethene	20.0	21.1	106	4	30	83-124	
1,2,3-Trichlorobenzene	20.0	19.4	97	10	30	81-123	

Column to be used to flag recovery and RPD values

QC only

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38279.D

Lab ID: LCSD 460-289045/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.3	86	7	30	74-119	
Trichloroethene	20.0	19.8	99	3	30	78-122	
Chlorobromomethane	20.0	20.9	105	1	30	82-127	
Trichlorofluoromethane	20.0	28.5	143	57	30	63-147	*
Isopropylbenzene	20.0	22.2	111	1	30	80-120	
Vinyl chloride	20.0	14.6	73	10	30	62-132	
1,2-Dichloroethane	20.0	19.0	95	4	30	79-120	
Methyl acetate	100	94.9	95	6	30	61-137	
1,2-Dichlorobenzene	20.0	19.5	97	5	30	77-120	
Methylcyclohexane	20.0	23.9	119	1	30	80-125	
1,2-Dibromo-3-Chloropropane	20.0	18.1	91	9	30	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38306.D

Lab ID: LCS 460-289168/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	21.7	108	74-128	
1,1-Dichloroethane	20.0	20.4	102	78-125	
2-Butanone (MEK)	100	105	105	58-140	
1,1,1-Trichloroethane	20.0	22.6	113	82-129	
Acetone	100	110	110	58-139	
1,2-Dichloropropane	20.0	19.6	98	72-123	
Bromomethane	20.0	20.2	101	62-150	
Carbon disulfide	20.0	21.9	109	73-127	
Carbon tetrachloride	20.0	22.0	110	77-137	
1,1,2-Trichloroethane	20.0	17.6	88	74-116	
Benzene	20.0	18.7	94	75-123	
Chlorodibromomethane	20.0	18.0	90	74-124	
Bromoform	20.0	18.7	94	70-130	
Chloroethane	20.0	18.7	93	60-140	
4-Methyl-2-pentanone (MIBK)	100	110	110	55-133	
Chloroform	20.0	20.8	104	77-122	
2-Hexanone	100	111	111	52-134	
Chloromethane	20.0	18.3	91	48-144	
cis-1,2-Dichloroethene	20.0	20.9	104	82-121	
1,1,2,2-Tetrachloroethane	20.0	17.5	88	66-121	
cis-1,3-Dichloropropene	20.0	17.4	87	75-119	
Chlorobenzene	20.0	19.0	95	80-120	
Dichlorobromomethane	20.0	19.5	97	77-122	
Ethylbenzene	20.0	20.5	103	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.9	105	73-134	
Methyl tert-butyl ether	20.0	20.9	104	75-124	
Cyclohexane	20.0	21.2	106	66-128	
Methylene Chloride	20.0	20.4	102	75-124	
Ethylene Dibromide	20.0	17.8	89	78-117	
m-Xylene & p-Xylene	20.0	20.4	102	79-120	
1,3-Dichlorobenzene	20.0	20.0	100	78-120	
o-Xylene	20.0	21.1	106	77-120	
1,4-Dichlorobenzene	20.0	19.6	98	77-120	
Styrene	20.0	20.4	102	78-120	
Tetrachloroethene	20.0	19.4	97	80-127	
Dichlorodifluoromethane	20.0	23.2	116	52-145	
Toluene	20.0	19.2	96	82-117	
1,2,4-Trichlorobenzene	20.0	20.6	103	81-127	
1,4-Dioxane	400	432	108	69-142	
trans-1,2-Dichloroethene	20.0	21.1	106	83-124	
1,2,3-Trichlorobenzene	20.0	19.8	99	81-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38306.D

Lab ID: LCS 460-289168/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.5	88	74-119	
Trichloroethene	20.0	19.7	99	78-122	
Chlorobromomethane	20.0	20.7	104	82-127	
Trichlorofluoromethane	20.0	21.1	106	63-147	
Isopropylbenzene	20.0	21.9	109	80-120	
Vinyl chloride	20.0	15.1	76	62-132	
1,2-Dichloroethane	20.0	19.2	96	79-120	
Methyl acetate	100	91.3	91	61-137	
1,2-Dichlorobenzene	20.0	19.3	96	77-120	
Methylcyclohexane	20.0	23.3	116	80-125	
1,2-Dibromo-3-Chloropropane	20.0	17.2	86	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38307.D

Lab ID: LCSD 460-289168/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	20.0	22.6	113	4	30	74-128	
1,1-Dichloroethane	20.0	20.6	103	1	30	78-125	
2-Butanone (MEK)	100	105	105	1	30	58-140	
1,1,1-Trichloroethane	20.0	23.5	117	4	30	82-129	
Acetone	100	133	133	19	30	58-139	
1,2-Dichloropropane	20.0	19.8	99	1	30	72-123	
Bromomethane	20.0	21.5	108	6	30	62-150	
Carbon disulfide	20.0	23.5	118	7	30	73-127	
Carbon tetrachloride	20.0	23.2	116	5	30	77-137	
1,1,2-Trichloroethane	20.0	17.7	89	1	30	74-116	
Benzene	20.0	17.8	89	5	30	75-123	
Chlorodibromomethane	20.0	17.9	89	1	30	74-124	
Bromoform	20.0	19.5	98	4	30	70-130	
Chloroethane	20.0	16.3	82	13	30	60-140	
4-Methyl-2-pentanone (MIBK)	100	107	107	3	30	55-133	
Chloroform	20.0	21.0	105	1	30	77-122	
2-Hexanone	100	108	108	3	30	52-134	
Chloromethane	20.0	21.0	105	14	30	48-144	
cis-1,2-Dichloroethene	20.0	20.9	104	0	30	82-121	
1,1,2,2-Tetrachloroethane	20.0	17.8	89	2	30	66-121	
cis-1,3-Dichloropropene	20.0	17.1	85	2	30	75-119	
Chlorobenzene	20.0	18.7	94	2	30	80-120	
Dichlorobromomethane	20.0	19.3	97	1	30	77-122	
Ethylbenzene	20.0	20.2	101	1	30	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.8	109	4	30	73-134	
Methyl tert-butyl ether	20.0	22.1	111	6	30	75-124	
Cyclohexane	20.0	22.3	111	5	30	66-128	
Methylene Chloride	20.0	22.2	111	8	30	75-124	
Ethylene Dibromide	20.0	17.8	89	0	30	78-117	
m-Xylene & p-Xylene	20.0	19.9	100	2	30	79-120	
1,3-Dichlorobenzene	20.0	19.8	99	1	30	78-120	
o-Xylene	20.0	21.3	107	1	30	77-120	
1,4-Dichlorobenzene	20.0	19.4	97	1	30	77-120	
Styrene	20.0	20.5	103	1	30	78-120	
Tetrachloroethene	20.0	18.5	93	5	30	80-127	
Dichlorodifluoromethane	20.0	26.2	131	12	30	52-145	
Toluene	20.0	18.5	93	4	30	82-117	
1,2,4-Trichlorobenzene	20.0	21.0	105	2	30	81-127	
1,4-Dioxane	400	398	100	8	30	69-142	
trans-1,2-Dichloroethene	20.0	21.3	107	1	30	83-124	
1,2,3-Trichlorobenzene	20.0	21.0	105	6	30	81-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38307.D

Lab ID: LCSD 460-289168/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.1	86	2	30	74-119	
Trichloroethene	20.0	18.8	94	5	30	78-122	
Chlorobromomethane	20.0	21.2	106	2	30	82-127	
Trichlorofluoromethane	20.0	30.1	150	35	30	63-147	*
Isopropylbenzene	20.0	22.0	110	1	30	80-120	
Vinyl chloride	20.0	15.9	80	5	30	62-132	
1,2-Dichloroethane	20.0	19.2	96	0	30	79-120	
Methyl acetate	100	100	100	9	30	61-137	
1,2-Dichlorobenzene	20.0	19.7	99	2	30	77-120	
Methylcyclohexane	20.0	23.9	120	3	30	80-125	
1,2-Dibromo-3-Chloropropane	20.0	18.4	92	7	30	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38658.D

Lab ID: LCS 460-290757/8 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	20.7	103	74-128	
1,1-Dichloroethane	20.0	19.9	99	78-125	
2-Butanone (MEK)	100	108	108	58-140	
1,1,1-Trichloroethane	20.0	21.7	109	82-129	
Acetone	100	145	145	58-139	*
1,2-Dichloropropane	20.0	20.5	102	72-123	
Bromomethane	20.0	25.1	126	62-150	
Carbon disulfide	20.0	24.8	124	73-127	
Carbon tetrachloride	20.0	20.3	101	77-137	
1,1,2-Trichloroethane	20.0	18.5	93	74-116	
Benzene	20.0	18.0	90	75-123	
Chlorodibromomethane	20.0	17.2	86	74-124	
Bromoform	20.0	17.2	86	70-130	
Chloroethane	20.0	27.7	138	60-140	
4-Methyl-2-pentanone (MIBK)	100	112	112	55-133	
Chloroform	20.0	19.2	96	77-122	
2-Hexanone	100	111	111	52-134	
Chloromethane	20.0	25.1	125	48-144	
cis-1,2-Dichloroethene	20.0	19.3	96	82-121	
1,1,2,2-Tetrachloroethane	20.0	21.7	108	66-121	
cis-1,3-Dichloropropene	20.0	17.3	87	75-119	
Chlorobenzene	20.0	18.5	92	80-120	
Dichlorobromomethane	20.0	18.4	92	77-122	
Ethylbenzene	20.0	20.1	101	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.1	101	73-134	
Methyl tert-butyl ether	20.0	21.9	109	75-124	
Cyclohexane	20.0	23.7	119	66-128	
Methylene Chloride	20.0	22.5	113	75-124	
Ethylene Dibromide	20.0	17.7	89	78-117	
m-Xylene & p-Xylene	20.0	19.6	98	79-120	
1,3-Dichlorobenzene	20.0	19.4	97	78-120	
o-Xylene	20.0	21.3	107	77-120	
1,4-Dichlorobenzene	20.0	19.4	97	77-120	
Styrene	20.0	20.4	102	78-120	
Tetrachloroethene	20.0	15.9	80	80-127	
Dichlorodifluoromethane	20.0	19.9	100	52-145	
Toluene	20.0	18.6	93	82-117	
1,2,4-Trichlorobenzene	20.0	19.3	97	81-127	
1,4-Dioxane	400	390	98	69-142	
trans-1,2-Dichloroethene	20.0	19.8	99	83-124	
1,2,3-Trichlorobenzene	20.0	19.4	97	81-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38658.D

Lab ID: LCS 460-290757/8 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.4	87	74-119	
Trichloroethene	20.0	17.1	85	78-122	
Chlorobromomethane	20.0	19.0	95	82-127	
Trichlorofluoromethane	20.0	19.1	95	63-147	
Isopropylbenzene	20.0	21.4	107	80-120	
Vinyl chloride	20.0	24.4	122	62-132	
1,2-Dichloroethane	20.0	18.1	90	79-120	
Methyl acetate	100	96.8	97	61-137	
1,2-Dichlorobenzene	20.0	19.8	99	77-120	
Methylcyclohexane	20.0	23.7	119	80-125	
1,2-Dibromo-3-Chloropropane	20.0	20.1	100	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38584.D

Lab ID: 460-92568-4 MS Client ID: SB41 (5-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	23.0	0.47 U	24.3	106	82-129	
1,1,2,2-Tetrachloroethane	23.0	0.21 U	14.8	64	66-121	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	23.0	0.54 U	17.5	76	73-134	
1,1,2-Trichloroethane	23.0	0.35 U	17.3	75	74-116	
1,1-Dichloroethane	23.0	0.42 U	19.7	86	78-125	
1,1-Dichloroethene	23.0	0.51 U	16.7	73	74-128	F1
1,2,3-Trichlorobenzene	23.0	0.14 U	13.1	57	81-123	F1
1,2,4-Trichlorobenzene	23.0	0.40 U	12.9	56	81-127	F1
1,2-Dichloropropane	23.0	0.21 U	18.3	80	72-123	
1,3-Dichlorobenzene	23.0	0.15 U	14.9	65	78-120	F1
1,4-Dichlorobenzene	23.0	0.16 U	14.8	65	77-120	F1
1,4-Dioxane	460	7.9 U	481	105	69-142	
2-Butanone (MEK)	115	0.95 U	126	109	58-140	
2-Hexanone	115	1.2 U	109	94	52-134	
4-Methyl-2-pentanone (MIBK)	115	2.7 U	116	101	55-133	
Acetone	115	1.3 U	113	98	58-139	
Benzene	23.0	0.25 U	17.5	76	75-123	
Bromoform	23.0	0.16 U	21.5	93	70-130	
Bromomethane	23.0	0.40 U	23.8	103	62-150	
Carbon disulfide	23.0	0.53 U	15.8	69	73-127	F1
Carbon tetrachloride	23.0	0.53 U	25.4	110	77-137	
Chlorobenzene	23.0	0.17 U	17.3	75	80-120	F1
Chlorobromomethane	23.0	0.21 U	22.5	98	82-127	
Chlorodibromomethane	23.0	0.19 U	20.3	88	74-124	
Chloroethane	23.0	0.43 U	24.6	107	60-140	
Chloroform	23.0	0.26 U	22.6	98	77-122	
Chloromethane	23.0	0.47 U	12.7	55	48-144	
cis-1,2-Dichloroethene	23.0	0.27 U	20.7	90	82-121	
cis-1,3-Dichloropropene	23.0	0.19 U	16.9	73	75-119	F1
Cyclohexane	23.0	0.57 U	16.7	73	66-128	
Dichlorobromomethane	23.0	0.47 U	20.5	89	77-122	
Dichlorodifluoromethane	23.0	0.40 U	20.6	90	52-145	
Ethylbenzene	23.0	0.22 U	18.6	81	80-120	
Ethylene Dibromide	23.0	0.15 U	17.7	77	78-117	F1
Isopropylbenzene	23.0	0.21 U	20.0	87	80-120	
Methyl acetate	115	1.1 U	77.3	67	61-137	
Methyl tert-butyl ether	23.0	0.21 U	20.7	90	75-124	
Methylcyclohexane	23.0	0.62 U	19.3	84	80-125	
Methylene Chloride	23.0	0.40 U	18.5	81	75-124	
m-Xylene & p-Xylene	23.0	0.14 U	18.3	80	79-120	
o-Xylene	23.0	0.20 U	19.4	85	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38584.D

Lab ID: 460-92568-4 MS Client ID: SB41 (5-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Styrene	23.0	0.19 U	17.1	75	78-120	F1
Tetrachloroethene	23.0	0.35 U	20.2	88	80-127	
Toluene	23.0	0.23 U	18.7	81	82-117	F1
trans-1,2-Dichloroethene	23.0	0.48 U	19.5	85	83-124	
trans-1,3-Dichloropropene	23.0	0.12 U	17.9	78	74-119	
Trichloroethene	23.0	0.32 U	20.5	89	78-122	
Trichlorofluoromethane	23.0	0.42 U	26.2	114	63-147	
Vinyl chloride	23.0	0.48 U	15.0	65	62-132	
1,2-Dichloroethane	23.0	0.14 U	21.2	92	79-120	
1,2-Dichlorobenzene	23.0	0.17 U	15.5	68	77-120	F1
1,2-Dibromo-3-Chloropropane	23.0	0.58 U	17.4	76	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38585.D

Lab ID: 460-92568-4 MSD Client ID: SB41 (5-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	24.3	26.1	107	7	30	82-129	
1,1,2,2-Tetrachloroethane	24.3	15.0	62	2	30	66-121	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	24.3	19.5	80	11	30	73-134	
1,1,2-Trichloroethane	24.3	17.6	72	1	30	74-116	F1
1,1-Dichloroethane	24.3	21.2	87	7	30	78-125	
1,1-Dichloroethene	24.3	18.8	78	12	30	74-128	
1,2,3-Trichlorobenzene	24.3	14.4	59	9	30	81-123	F1
1,2,4-Trichlorobenzene	24.3	14.5	60	12	30	81-127	F1
1,2-Dichloropropane	24.3	18.9	78	3	30	72-123	
1,3-Dichlorobenzene	24.3	16.8	69	12	30	78-120	F1
1,4-Dichlorobenzene	24.3	16.2	67	9	30	77-120	F1
1,4-Dioxane	486	534	110	10	30	69-142	
2-Butanone (MEK)	121	123	102	2	30	58-140	
2-Hexanone	121	114	94	5	30	52-134	
4-Methyl-2-pentanone (MIBK)	121	122	100	5	30	55-133	
Acetone	121	90.6	75	22	30	58-139	
Benzene	24.3	18.7	77	6	30	75-123	
Bromoform	24.3	21.3	88	1	30	70-130	
Bromomethane	24.3	27.4	113	14	30	62-150	
Carbon disulfide	24.3	18.0	74	13	30	73-127	
Carbon tetrachloride	24.3	26.5	109	4	30	77-137	
Chlorobenzene	24.3	18.0	74	4	30	80-120	F1
Chlorobromomethane	24.3	24.0	99	6	30	82-127	
Chlorodibromomethane	24.3	20.9	86	3	30	74-124	
Chloroethane	24.3	31.1	128	23	30	60-140	
Chloroform	24.3	23.8	98	5	30	77-122	
Chloromethane	24.3	12.8	53	2	30	48-144	
cis-1,2-Dichloroethene	24.3	22.3	92	7	30	82-121	
cis-1,3-Dichloropropene	24.3	17.8	73	5	30	75-119	F1
Cyclohexane	24.3	18.0	74	7	30	66-128	
Dichlorobromomethane	24.3	21.5	89	5	30	77-122	
Dichlorodifluoromethane	24.3	21.9	90	6	30	52-145	
Ethylbenzene	24.3	19.1	79	3	30	80-120	F1
Ethylene Dibromide	24.3	17.9	74	1	30	78-117	F1
Isopropylbenzene	24.3	21.1	87	6	30	80-120	
Methyl acetate	121	77.7	64	1	30	61-137	
Methyl tert-butyl ether	24.3	21.8	90	6	30	75-124	
Methylcyclohexane	24.3	20.2	83	5	30	80-125	
Methylene Chloride	24.3	19.9	82	7	30	75-124	
m-Xylene & p-Xylene	24.3	19.4	80	6	30	79-120	
o-Xylene	24.3	20.4	84	5	30	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: K38585.D

Lab ID: 460-92568-4 MSD Client ID: SB41 (5-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	24.3	18.3	75	7	30	78-120	F1
Tetrachloroethene	24.3	21.8	90	8	30	80-127	
Toluene	24.3	19.5	80	4	30	82-117	F1
trans-1,2-Dichloroethene	24.3	21.9	90	12	30	83-124	
trans-1,3-Dichloropropene	24.3	18.5	76	3	30	74-119	
Trichloroethene	24.3	21.9	90	7	30	78-122	
Trichlorofluoromethane	24.3	24.8	102	5	30	63-147	
Vinyl chloride	24.3	17.6	73	16	30	62-132	
1,2-Dichloroethane	24.3	22.1	91	5	30	79-120	
1,2-Dichlorobenzene	24.3	16.5	68	6	30	77-120	F1
1,2-Dibromo-3-Chloropropane	24.3	17.1	70	1	30	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low

GC Column (1): Rtxi-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#	
SB43 (8-9) DL	460-92355-1 DL	44		45		47		56		41		51		10X
SB43 (45-48) DL	460-92355-2 DL	0	X	0	X	0	X	0	X	0	X	0	X	50X
SB43 (49-50)	460-92355-3	52		54		56		60		56		65		
DUPE-032615 DL	460-92355-4 DL	0	X	0	X	0	X	0	X	0	X	0	X	50X
SB44 (9-10)	460-92355-5	57		59		65		71		48		72		
SB44 (38-40)	460-92355-6	59		58		62		68		59		70		
SB44 (49-50)	460-92355-7	55		55		58		63		59		66		
SB42(9-10)	460-92511-1	39		39	X	47		56		49		53		1X
SB42(35-37.5)	460-92511-2	43		45		52		59		51		57		
SB42(49-50)	460-92511-3	40		40	X	47		53		48		52		1X
SB40 (9-10) DL	460-92568-1 DL	54		64		66		79		42		74		50X
SB40 (20-23.5) DL	460-92568-2 DL	54		68		63		79		28		61		25X
SB40 (50-55)	460-92568-3	59		61		69		80		53		72		
SB41 (5-10)	460-92568-4	58		59		67		90		34		53		50X
SB41 (35-37) DL	460-92568-5 DL	55		56		65		91		66		62		10X
SB41 (38-39)	460-92568-6	58		61		66		72		55		93		
	MB 460-289266/1-A	87		88		86		87		97		104		
	MB 460-289513/1-A	68		70		79		90		103		93		
	MB 460-289793/1-A	81		84		85		90		79		114		
	LCS 460-289266/2-A	81		81		88		96		94		110		
	LCS 460-289266/3-A	73		76		76		84		93		91		
	LCS 460-289513/2-A	65		67		77		89		93		90		
	LCS 460-289513/3-A	65		66		79		95		108		84		
	LCS 460-289793/2-A	61		65		69		86		88		98		
	LCS 460-289793/24-A	69		70		73		79		65		95		
SB42(9-10) MS	460-92511-1 MS	38		40	X	47		57		60		52		
SB41 (5-10) MS	460-92568-4 MS	77		71		83		100		58		62		
	460-92431-A-7-A MS	8	X	32	X	3	X	44		9	X	39		
SB42(9-10) MSD	460-92511-1 MSD	43		45		53		63		69		58		
SB41 (5-10) MSD	460-92568-4 MSD	68		77		85		105		59		65		

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	37-125
PHL = Phenol-d5 (Surr)	41-118
NBZ = Nitrobenzene-d5 (Surr)	38-105
FBP = 2-Fluorobiphenyl	40-109
TBP = 2,4,6-Tribromophenol (Surr)	10-120
TPH = Terphenyl-d14 (Surr)	16-151

Column to be used to flag recovery values

FORM II 8270D

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289674/2 Calibration Date: 04/01/2015 17:19

Instrument ID: CBNAMS11 Calib Start Date: 03/06/2015 11:17

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/06/2015 14:39

Lab File ID: z9836.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Qua		0.4784	0.0100	32400	50000	-35.1*	20.0
N-Nitrosodimethylamine	Ave	0.8390	0.6512		38800	50000	-22.4*	20.0
Pyridine	Ave	1.474	1.121		38000	50000	-23.9*	20.0
Aniline	Ave	1.975	1.756		44500	50000	-11.1	20.0
Phenol	Ave	1.674	1.566	0.8000	46800	50000	-6.5	20.0
Bis(2-chloroethyl)ether	Ave	1.291	1.171	0.7000	45300	50000	-9.3	20.0
2-Chlorophenol	Ave	1.450	1.397	0.8000	48200	50000	-3.6	20.0
n-Decane	Ave	1.421	1.389	0.0100	48900	50000	-2.3	20.0
1,3-Dichlorobenzene	Ave	1.610	1.610		50000	50000	0.0	20.0
1,4-Dichlorobenzene	Ave	1.619	1.582		48900	50000	-2.3	20.0
Benzyl alcohol	Ave	0.8212	0.7854	0.0100	47800	50000	-4.4	20.0
1,2-Dichlorobenzene	Ave	1.474	1.461		49600	50000	-0.9	20.0
2-Methylphenol	Ave	1.168	1.089	0.7000	46600	50000	-6.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.656	1.595	0.0100	48200	50000	-3.7	20.0
Acetophenone	Ave	1.543	1.578	0.0100	51100	50000	2.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.7692	0.7641	0.5000	49700	50000	-0.7	20.0
3 & 4 Methylphenol	Ave	1.267	1.140		45000	50000	-10.0	20.0
4-Methylphenol	Ave	1.267	1.140	0.6000	45000	50000	-10.0	20.0
Hexachloroethane	Ave	0.6118	0.6243	0.3000	51000	50000	2.0	20.0
Nitrobenzene	Ave	0.4935	0.5013	0.2000	50800	50000	1.6	20.0
n,n'-Dimethylaniline	Ave	1.953	1.983	0.0100	50800	50000	1.6	20.0
Isophorone	Ave	0.5778	0.5608	0.4000	48500	50000	-2.9	20.0
2-Nitrophenol	Ave	0.2067	0.2008	0.1000	48600	50000	-2.9	20.0
2,4-Dimethylphenol	Ave	0.3239	0.3124	0.2000	48200	50000	-3.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.3801	0.3597	0.3000	47300	50000	-5.4	20.0
Benzoic acid	Lin2		0.1610		47000	50000	-6.0	20.0
2,4-Dichlorophenol	Ave	0.2868	0.3022	0.2000	52700	50000	5.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3300	0.3384		51300	50000	2.5	20.0
Naphthalene	Ave	1.080	1.072	0.7000	49600	50000	-0.7	20.0
4-Chloroaniline	Ave	0.4313	0.4125	0.0100	47800	50000	-4.4	20.0
Hexachlorobutadiene	Ave	0.1673	0.1890	0.0100	56500	50000	12.9	20.0
4-Chloro-3-methylphenol	Ave	0.2692	0.2744		51000	50000	1.9	20.0
2-Methylnaphthalene	Ave	0.6710	0.6931	0.4000	51600	50000	3.3	20.0
1-Methylnaphthalene	Ave	0.6154	0.6268	0.0100	50900	50000	1.9	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3632	0.0500	48500	50000	-2.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6068	0.6452	0.0100	53200	50000	6.3	20.0
2-tertbutyl-4-methylphenol	Ave	0.4522	0.4900	0.0100	54200	50000	8.4	20.0
2,4,6-Trichlorophenol	Ave	0.3659	0.4012	0.2000	54800	50000	9.7	20.0
2,4,5-Trichlorophenol	Ave	0.3832	0.4157	0.2000	54200	50000	8.5	20.0
1,1'-Biphenyl	Ave	1.641	1.694	0.0100	51600	50000	3.3	20.0
2-Chloronaphthalene	Ave	1.276	1.286	0.8000	50400	50000	0.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289674/2 Calibration Date: 04/01/2015 17:19

Instrument ID: CBNAMS11 Calib Start Date: 03/06/2015 11:17

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/06/2015 14:39

Lab File ID: z9836.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8523	0.8939	0.0100	52400	50000	4.9	20.0
2-Nitroaniline	Ave	0.4095	0.3185	0.0100	38900	50000	-22.2*	20.0
1,3-Dimethylnaphthalene	Ave	1.035	1.079	0.0100	52100	50000	4.3	20.0
Dimethyl phthalate	Ave	1.166	1.227	0.0100	52700	50000	5.3	20.0
Coumarin	Ave	0.1817	0.1913	0.0100	52600	50000	5.3	20.0
2,6-Dinitrotoluene	Ave	0.2725	0.2902	0.2000	53200	50000	6.5	20.0
Acenaphthylene	Ave	1.808	1.890	0.9000	52300	50000	4.5	20.0
3-Nitroaniline	Ave	0.3263	0.3053	0.0100	46800	50000	-6.4	20.0
Acenaphthene	Ave	1.180	1.172	0.9000	49700	50000	-0.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.111	1.252	0.0100	56400	50000	12.7	20.0
2,4-Dinitrophenol	Lin2		0.1565	0.0100	96700	100000	-3.3	20.0
4-Nitrophenol	Ave	0.1917	0.1880	0.0100	98100	100000	-1.9	20.0
2,4-Dinitrotoluene	Ave	0.3179	0.3721	0.2000	58500	50000	17.0	20.0
Dibenzofuran	Ave	1.615	1.640	0.8000	50800	50000	1.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2400	0.2730	0.0100	56900	50000	13.7	20.0
Diethyl phthalate	Ave	1.085	1.181	0.0100	54400	50000	8.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.5765	0.5971	0.4000	51800	50000	3.6	20.0
Fluorene	Ave	1.215	1.283	0.9000	52800	50000	5.6	20.0
4-Nitroaniline	Ave	0.3009	0.2681	0.0100	44500	50000	-10.9	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1422	0.0100	95200	100000	-4.8	20.0
N-Nitrosodiphenylamine	Ave	0.6801	0.6757	0.0100	49700	50000	-0.7	20.0
1,2-Diphenylhydrazine	Ave	0.9256	0.8590	0.0100	46400	50000	-7.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2223	0.2288	0.1000	51500	50000	2.9	20.0
Hexachlorobenzene	Ave	0.2044	0.2178	0.1000	53300	50000	6.6	20.0
Pentachlorophenol	Lin2		0.1219	0.0500	96900	100000	-3.1	20.0
Pentachloronitrobenzene	Ave	0.0877	0.1083	0.0100	61700	50000	23.4*	20.0
n-Octadecane	Ave	0.6462	0.6364	0.0100	49200	50000	-1.5	20.0
Phenanthrene	Ave	1.175	1.182	0.7000	50300	50000	0.5	20.0
Anthracene	Ave	1.187	1.216	0.7000	51200	50000	2.4	20.0
Carbazole	Ave	1.019	1.024	0.0100	50200	50000	0.5	20.0
Di-n-butyl phthalate	Ave	1.183	1.259	0.0100	53200	50000	6.4	20.0
Fluoranthene	Ave	1.029	1.086	0.6000	52700	50000	5.5	20.0
Benzidine	Ave	0.7030	0.6763		48100	50000	-3.8	20.0
Pyrene	Ave	1.634	1.639	0.6000	50200	50000	0.3	20.0
Butyl benzyl phthalate	Ave	0.6778	0.7114	0.0100	52500	50000	5.0	20.0
2,3,7,8-TCDD	Ave	0.1325	0.1224	0.0100	462	500	-7.7	20.0
Carbamazepine	Ave	0.5267	0.5690	0.0100	54000	50000	8.0	20.0
3,3'-Dichlorobenzidine	Ave	0.4073	0.4363	0.0100	53600	50000	7.1	20.0
Benzo[a]anthracene	Ave	1.201	1.239	0.8000	51600	50000	3.2	20.0
Chrysene	Ave	1.182	1.127	0.7000	47700	50000	-4.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289674/2 Calibration Date: 04/01/2015 17:19

Instrument ID: CBNAMS11 Calib Start Date: 03/06/2015 11:17

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/06/2015 14:39

Lab File ID: z9836.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-ethylhexyl) phthalate	Ave	0.8992	0.9855	0.0100	54800	50000	9.6	20.0
Di-n-octyl phthalate	Ave	1.682	1.968	0.0100	58500	50000	17.0	20.0
Benzo[b]fluoranthene	Ave	1.121	1.227	0.7000	54700	50000	9.4	20.0
Benzo[k]fluoranthene	Ave	1.263	1.295	0.7000	51300	50000	2.6	20.0
Benzo[a]pyrene	Ave	1.075	1.177	0.7000	54800	50000	9.5	20.0
Indeno[1,2,3-cd]pyrene	Qua		1.126	0.5000	50400	50000	0.8	20.0
Dibenz(a,h)anthracene	Ave	0.9273	1.065	0.4000	57400	50000	14.9	20.0
Benzo[g,h,i]perylene	Ave	1.111	1.095	0.5000	49200	50000	-1.5	20.0
2-Fluorophenol (Surr)	Ave	1.433	1.315	0.0100	45900	50000	-8.2	20.0
Phenol-d5 (Surr)	Ave	1.527	1.401	0.0100	45900	50000	-8.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3604	0.3665	0.0100	50800	50000	1.7	20.0
2-Fluorobiphenyl	Ave	1.474	1.570	0.0100	53300	50000	6.5	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1105	0.1388	0.0100	62800	50000	25.5*	20.0
Terphenyl-d14 (Surr)	Ave	1.051	1.085	0.0100	51600	50000	3.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289538/2 Calibration Date: 04/01/2015 09:11

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202661.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6146	0.5199	0.0100	42300	50000	-15.4	20.0
N-Nitrosodimethylamine	Ave	0.7382	0.7147		48400	50000	-3.2	20.0
Pyridine	Ave	1.270	1.260		49600	50000	-0.8	20.0
Phenol	Ave	1.537	1.496	0.8000	48700	50000	-2.7	20.0
Aniline	Ave	1.846	1.740		47100	50000	-5.7	20.0
Bis(2-chloroethyl)ether	Ave	1.100	1.109	0.7000	50400	50000	0.8	20.0
2-Chlorophenol	Ave	1.299	1.291	0.8000	49700	50000	-0.6	20.0
n-Decane	Ave	1.359	1.312	0.0100	48300	50000	-3.5	20.0
1,3-Dichlorobenzene	Ave	1.568	1.529		48800	50000	-2.5	20.0
1,4-Dichlorobenzene	Ave	1.582	1.541		48700	50000	-2.6	20.0
Benzyl alcohol	Ave	0.7818	0.7771	0.0100	49700	50000	-0.6	20.0
1,2-Dichlorobenzene	Ave	1.472	1.445		49100	50000	-1.9	20.0
2-Methylphenol	Ave	1.095	1.078	0.7000	49200	50000	-1.6	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.449	1.541	0.0100	53200	50000	6.3	20.0
3 & 4 Methylphenol	Ave	1.256	1.281		51000	50000	2.0	20.0
4-Methylphenol	Ave	1.256	1.281	0.6000	51000	50000	2.0	20.0
Acetophenone	Ave	1.661	1.731	0.0100	52100	50000	4.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8373	0.9420	0.5000	56200	50000	12.5	20.0
Hexachloroethane	Ave	0.5631	0.5872	0.3000	52100	50000	4.3	20.0
n,n'-Dimethylaniline	Ave	1.885	1.961	0.0100	52000	50000	4.1	20.0
Nitrobenzene	Ave	0.5619	0.5574	0.2000	49600	50000	-0.8	20.0
Isophorone	Ave	0.6193	0.6485	0.4000	52400	50000	4.7	20.0
2-Nitrophenol	Ave	0.2066	0.2032	0.1000	49200	50000	-1.7	20.0
2,4-Dimethylphenol	Ave	0.3134	0.3017	0.2000	48100	50000	-3.7	20.0
Benzoic acid	Ave	0.1924	0.1978		51400	50000	2.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3712	0.3692	0.3000	49700	50000	-0.5	20.0
2,4-Dichlorophenol	Ave	0.3344	0.3237	0.2000	48400	50000	-3.2	20.0
1,2,4-Trichlorobenzene	Ave	0.4107	0.4084		49700	50000	-0.5	20.0
Naphthalene	Ave	1.048	1.047	0.7000	49900	50000	-0.1	20.0
4-Chloroaniline	Ave	0.4148	0.3742	0.0100	45100	50000	-9.8	20.0
Hexachlorobutadiene	Ave	0.2730	0.2705	0.0100	49500	50000	-0.9	20.0
4-Chloro-3-methylphenol	Ave	0.2815	0.2697		47900	50000	-4.2	20.0
2-Methylnaphthalene	Ave	0.7260	0.7428	0.4000	51200	50000	2.3	20.0
1-Methylnaphthalene	Ave	0.6669	0.6923	0.0100	51900	50000	3.8	20.0
Hexachlorocyclopentadiene	Ave	0.4604	0.4026	0.0500	43700	50000	-12.6	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7606	0.6740	0.0100	44300	50000	-11.4	20.0
2-tertbutyl-4-methylphenol	Ave	0.4970	0.5186	0.0100	52200	50000	4.4	20.0
2,4,6-Trichlorophenol	Ave	0.4453	0.4079	0.2000	45800	50000	-8.4	20.0
2,4,5-Trichlorophenol	Ave	0.4750	0.3991	0.2000	42000	50000	-16.0	20.0
1,1'-Biphenyl	Ave	1.585	1.486	0.0100	46900	50000	-6.2	20.0
2-Chloronaphthalene	Ave	1.223	1.150	0.8000	47000	50000	-6.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289538/2 Calibration Date: 04/01/2015 09:11

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202661.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8554	0.8201	0.0100	47900	50000	-4.1	20.0
2-Nitroaniline	Ave	0.4040	0.3915	0.0100	48500	50000	-3.1	20.0
1,3-Dimethylnaphthalene	Ave	0.9914	0.9740	0.0100	49100	50000	-1.8	20.0
Dimethyl phthalate	Ave	1.224	1.172	0.0100	47900	50000	-4.2	20.0
Coumarin	Ave	0.2095	0.2351	0.0100	56100	50000	12.2	20.0
2,6-Dinitrotoluene	Ave	0.2971	0.2969	0.2000	50000	50000	-0.0	20.0
Acenaphthylene	Ave	1.714	1.622	0.9000	47300	50000	-5.4	20.0
3-Nitroaniline	Ave	0.2751	0.2588	0.0100	47000	50000	-5.9	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.226	1.199	0.0100	48900	50000	-2.1	20.0
Acenaphthene	Ave	1.113	1.063	0.9000	47800	50000	-4.5	20.0
2,4-Dinitrophenol	Lin2		0.2079	0.0100	94400	100000	-5.6	20.0
4-Nitrophenol	Ave	0.2168	0.2191	0.0100	101000	100000	1.0	20.0
2,4-Dinitrotoluene	Ave	0.3616	0.4035	0.2000	55800	50000	11.6	20.0
Dibenzofuran	Ave	1.683	1.680	0.8000	49900	50000	-0.2	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3792	0.3855	0.0100	50800	50000	1.7	20.0
Diethyl phthalate	Ave	1.148	1.133	0.0100	49300	50000	-1.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.7184	0.7146	0.4000	49700	50000	-0.5	20.0
Fluorene	Ave	1.311	1.334	0.9000	50900	50000	1.7	20.0
4-Nitroaniline	Ave	0.2583	0.2519	0.0100	48800	50000	-2.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1594	0.0100	93500	100000	-6.5	20.0
N-Nitrosodiphenylamine	Ave	0.5714	0.5119	0.0100	44800	50000	-10.4	20.0
1,2-Diphenylhydrazine	Ave	0.7323	0.6961	0.0100	47500	50000	-4.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2625	0.2453	0.1000	46700	50000	-6.6	20.0
Hexachlorobenzene	Ave	0.2723	0.2673	0.1000	49100	50000	-1.8	20.0
Pentachlorophenol	Ave	0.1810	0.1765	0.0500	97500	100000	-2.5	20.0
Pentachloronitrobenzene	Ave	0.1241	0.1289	0.0100	51900	50000	3.9	20.0
n-Octadecane	Ave	0.4309	0.4196	0.0100	48700	50000	-2.6	20.0
Phenanthrene	Ave	1.114	1.079	0.7000	48400	50000	-3.1	20.0
Anthracene	Ave	1.123	1.132	0.7000	50400	50000	0.8	20.0
Carbazole	Ave	0.9470	0.9442	0.0100	49900	50000	-0.3	20.0
Di-n-butyl phthalate	Ave	1.061	1.029	0.0100	48500	50000	-3.0	20.0
Fluoranthene	Ave	1.193	1.217	0.6000	51000	50000	2.0	20.0
Benzidine	QuaF		0.5546		43700	50000	-12.6	20.0
Pyrene	Ave	1.345	1.401	0.6000	52100	50000	4.2	20.0
Butyl benzyl phthalate	Ave	0.4703	0.4945	0.0100	52600	50000	5.1	20.0
2,3,7,8-TCDD	Ave	0.1414	0.1654	0.0100	585	500	17.0	20.0
Carbamazepine	Ave	0.5395	0.4905	0.0100	45500	50000	-9.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4878	0.4268	0.0100	43700	50000	-12.5	20.0
Benzo[a]anthracene	Ave	1.281	1.202	0.8000	46900	50000	-6.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6775	0.7185	0.0100	53000	50000	6.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-289538/2 Calibration Date: 04/01/2015 09:11

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202661.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.188	1.226	0.7000	51600	50000	3.2	20.0
Di-n-octyl phthalate	Ave	1.047	1.262	0.0100	60200	50000	20.5*	20.0
Benzo[b]fluoranthene	Ave	1.130	1.242	0.7000	55000	50000	10.0	20.0
Benzo[k]fluoranthene	Ave	1.181	1.280	0.7000	54200	50000	8.4	20.0
Benzo[a]pyrene	Ave	1.142	1.202	0.7000	52600	50000	5.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.292	1.212	0.5000	46900	50000	-6.2	20.0
Dibenz(a,h)anthracene	Ave	1.230	1.191	0.4000	48400	50000	-3.2	20.0
Benzo[g,h,i]perylene	Ave	1.446	1.229	0.5000	42500	50000	-15.1	20.0
2-Fluorophenol (Surr)	Ave	1.234	1.235	0.0100	50000	50000	0.1	20.0
Phenol-d5 (Surr)	Ave	1.484	1.476	0.0100	49700	50000	-0.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4152	0.4143	0.0100	49900	50000	-0.2	20.0
2-Fluorobiphenyl	Ave	1.508	1.431	0.0100	47500	50000	-5.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2182	0.2399	0.0100	55000	50000	9.9	20.0
Terphenyl-d14 (Surr)	Ave	1.017	1.078	0.0100	53000	50000	6.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290049/2 Calibration Date: 04/03/2015 05:32

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202749.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6146	0.6964	0.0100	56700	50000	13.3	20.0
N-Nitrosodimethylamine	Ave	0.7382	0.7602		51500	50000	3.0	20.0
Pyridine	Ave	1.270	1.308		51500	50000	3.0	20.0
Phenol	Ave	1.537	1.503	0.8000	48900	50000	-2.2	20.0
Aniline	Ave	1.846	1.731		46900	50000	-6.2	20.0
Bis(2-chloroethyl)ether	Ave	1.100	1.090	0.7000	49500	50000	-0.9	20.0
2-Chlorophenol	Ave	1.299	1.273	0.8000	49000	50000	-2.0	20.0
n-Decane	Ave	1.359	1.536	0.0100	56500	50000	13.0	20.0
1,3-Dichlorobenzene	Ave	1.568	1.554		49600	50000	-0.8	20.0
1,4-Dichlorobenzene	Ave	1.582	1.573		49700	50000	-0.6	20.0
Benzyl alcohol	Ave	0.7818	0.7178	0.0100	45900	50000	-8.2	20.0
1,2-Dichlorobenzene	Ave	1.472	1.457		49500	50000	-1.0	20.0
2-Methylphenol	Ave	1.095	1.039	0.7000	47400	50000	-5.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.449	1.524	0.0100	52600	50000	5.1	20.0
3 & 4 Methylphenol	Ave	1.256	1.195		47600	50000	-4.8	20.0
4-Methylphenol	Ave	1.256	1.195	0.6000	47600	50000	-4.8	20.0
N-Nitrosodi-n-propylamine	Ave	0.8373	0.8252	0.5000	49300	50000	-1.4	20.0
Acetophenone	Ave	1.661	1.578	0.0100	47500	50000	-5.0	20.0
Hexachloroethane	Ave	0.5631	0.5914	0.3000	52500	50000	5.0	20.0
n,n'-Dimethylaniline	Ave	1.885	1.847	0.0100	49000	50000	-2.0	20.0
Nitrobenzene	Ave	0.5619	0.5941	0.2000	52900	50000	5.7	20.0
Isophorone	Ave	0.6193	0.6003	0.4000	48500	50000	-3.1	20.0
2-Nitrophenol	Ave	0.2066	0.2037	0.1000	49300	50000	-1.4	20.0
2,4-Dimethylphenol	Ave	0.3134	0.3040	0.2000	48500	50000	-3.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.3712	0.3738	0.3000	50400	50000	0.7	20.0
Benzoic acid	Ave	0.1924	0.1681		43700	50000	-12.6	20.0
2,4-Dichlorophenol	Ave	0.3344	0.3281	0.2000	49100	50000	-1.9	20.0
1,2,4-Trichlorobenzene	Ave	0.4107	0.4178		50900	50000	1.7	20.0
Naphthalene	Ave	1.048	1.041	0.7000	49600	50000	-0.7	20.0
4-Chloroaniline	Ave	0.4148	0.3856	0.0100	46500	50000	-7.0	20.0
Hexachlorobutadiene	Ave	0.2730	0.2731	0.0100	50000	50000	0.0	20.0
4-Chloro-3-methylphenol	Ave	0.2815	0.2593		46100	50000	-7.9	20.0
2-Methylnaphthalene	Ave	0.7260	0.6906	0.4000	47600	50000	-4.9	20.0
1-Methylnaphthalene	Ave	0.6669	0.6345	0.0100	47600	50000	-4.9	20.0
Hexachlorocyclopentadiene	Ave	0.4604	0.4792	0.0500	52000	50000	4.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7606	0.7410	0.0100	48700	50000	-2.6	20.0
2-tertbutyl-4-methylphenol	Ave	0.4970	0.4737	0.0100	47700	50000	-4.7	20.0
2,4,6-Trichlorophenol	Ave	0.4453	0.4314	0.2000	48400	50000	-3.1	20.0
2,4,5-Trichlorophenol	Ave	0.4750	0.4434	0.2000	46700	50000	-6.7	20.0
1,1'-Biphenyl	Ave	1.585	1.567	0.0100	49400	50000	-1.1	20.0
2-Chloronaphthalene	Ave	1.223	1.234	0.8000	50400	50000	0.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290049/2 Calibration Date: 04/03/2015 05:32

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202749.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8554	0.8458	0.0100	49400	50000	-1.1	20.0
2-Nitroaniline	Ave	0.4040	0.3404	0.0100	42100	50000	-15.7	20.0
1,3-Dimethylnaphthalene	Ave	0.9914	0.9898	0.0100	49900	50000	-0.2	20.0
Dimethyl phthalate	Ave	1.224	1.140	0.0100	46600	50000	-6.9	20.0
Coumarin	Ave	0.2095	0.1874	0.0100	44700	50000	-10.6	20.0
2,6-Dinitrotoluene	Ave	0.2971	0.2826	0.2000	47600	50000	-4.9	20.0
Acenaphthylene	Ave	1.714	1.654	0.9000	48300	50000	-3.5	20.0
3-Nitroaniline	Ave	0.2751	0.2588	0.0100	47000	50000	-5.9	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.226	1.205	0.0100	49200	50000	-1.7	20.0
Acenaphthene	Ave	1.113	1.046	0.9000	47000	50000	-6.1	20.0
2,4-Dinitrophenol	Lin2		0.1689	0.0100	77000	100000	-23.0*	20.0
4-Nitrophenol	Ave	0.2168	0.1871	0.0100	86300	100000	-13.7	20.0
2,4-Dinitrotoluene	Ave	0.3616	0.3454	0.2000	47800	50000	-4.5	20.0
Dibenzofuran	Ave	1.683	1.584	0.8000	47000	50000	-5.9	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3792	0.3286	0.0100	43300	50000	-13.3	20.0
Diethyl phthalate	Ave	1.148	1.072	0.0100	46700	50000	-6.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.7184	0.6635	0.4000	46200	50000	-7.6	20.0
Fluorene	Ave	1.311	1.225	0.9000	46700	50000	-6.6	20.0
4-Nitroaniline	Ave	0.2583	0.2257	0.0100	43700	50000	-12.6	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1573	0.0100	92300	100000	-7.7	20.0
N-Nitrosodiphenylamine	Ave	0.5714	0.6085	0.0100	53200	50000	6.5	20.0
1,2-Diphenylhydrazine	Ave	0.7323	0.8027	0.0100	54800	50000	9.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2625	0.2587	0.1000	49300	50000	-1.5	20.0
Hexachlorobenzene	Ave	0.2723	0.2813	0.1000	51700	50000	3.3	20.0
Pentachlorophenol	Ave	0.1810	0.1681	0.0500	92900	100000	-7.1	20.0
Pentachloronitrobenzene	Ave	0.1241	0.1277	0.0100	51500	50000	3.0	20.0
n-Octadecane	Ave	0.4309	0.5022	0.0100	58300	50000	16.5	20.0
Phenanthrene	Ave	1.114	1.117	0.7000	50200	50000	0.3	20.0
Anthracene	Ave	1.123	1.149	0.7000	51200	50000	2.3	20.0
Carbazole	Ave	0.9470	0.9375	0.0100	49500	50000	-1.0	20.0
Di-n-butyl phthalate	Ave	1.061	1.088	0.0100	51300	50000	2.6	20.0
Fluoranthene	Ave	1.193	1.128	0.6000	47300	50000	-5.4	20.0
Benzidine	QuaF		0.6186		47600	50000	-4.9	20.0
Pyrene	Ave	1.345	1.228	0.6000	45700	50000	-8.7	20.0
Butyl benzyl phthalate	Ave	0.4703	0.4978	0.0100	52900	50000	5.9	20.0
2,3,7,8-TCDD	Ave	0.1414	0.1614	0.0100	571	500	14.1	20.0
Carbamazepine	Ave	0.5395	0.5430	0.0100	50300	50000	0.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4878	0.5161	0.0100	52900	50000	5.8	20.0
Benzo[a]anthracene	Ave	1.281	1.216	0.8000	47500	50000	-5.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6775	0.7296	0.0100	53800	50000	7.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290049/2 Calibration Date: 04/03/2015 05:32

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202749.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.188	1.164	0.7000	49000	50000	-2.1	20.0
Di-n-octyl phthalate	Ave	1.047	1.154	0.0100	55100	50000	10.1	20.0
Benzo[b]fluoranthene	Ave	1.130	1.174	0.7000	51900	50000	3.9	20.0
Benzo[k]fluoranthene	Ave	1.181	1.196	0.7000	50600	50000	1.3	20.0
Benzo[a]pyrene	Ave	1.142	1.202	0.7000	52600	50000	5.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.292	1.411	0.5000	54600	50000	9.3	20.0
Dibenz(a,h)anthracene	Ave	1.230	1.338	0.4000	54400	50000	8.8	20.0
Benzo[g,h,i]perylene	Ave	1.446	1.369	0.5000	47300	50000	-5.3	20.0
2-Fluorophenol (Surr)	Ave	1.234	1.301	0.0100	52700	50000	5.4	20.0
Phenol-d5 (Surr)	Ave	1.484	1.442	0.0100	48600	50000	-2.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4152	0.4340	0.0100	52300	50000	4.5	20.0
2-Fluorobiphenyl	Ave	1.508	1.516	0.0100	50300	50000	0.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2182	0.2032	0.0100	46600	50000	-6.9	20.0
Terphenyl-d14 (Surr)	Ave	1.017	0.8917	0.0100	43900	50000	-12.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290469/2 Calibration Date: 04/06/2015 02:15

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202874.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6146	0.5941	0.0100	48300	50000	-3.3	20.0
N-Nitrosodimethylamine	Ave	0.7382	0.8797		59600	50000	19.2	20.0
Pyridine	Ave	1.270	1.485		58500	50000	17.0	20.0
Phenol	Ave	1.537	1.768	0.8000	57500	50000	15.0	20.0
Aniline	Ave	1.846	2.028		54900	50000	9.8	20.0
Bis(2-chloroethyl)ether	Ave	1.100	1.286	0.7000	58400	50000	16.9	20.0
2-Chlorophenol	Ave	1.299	1.373	0.8000	52900	50000	5.7	20.0
n-Decane	Ave	1.359	2.108	0.0100	77600	50000	55.1*	20.0
1,3-Dichlorobenzene	Ave	1.568	1.613		51400	50000	2.9	20.0
1,4-Dichlorobenzene	Ave	1.582	1.623		51300	50000	2.6	20.0
Benzyl alcohol	Ave	0.7818	0.8227	0.0100	52600	50000	5.2	20.0
1,2-Dichlorobenzene	Ave	1.472	1.506		51200	50000	2.3	20.0
2-Methylphenol	Ave	1.095	1.173	0.7000	53600	50000	7.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.449	2.312	0.0100	79800	50000	59.5*	20.0
3 & 4 Methylphenol	Ave	1.256	1.375		54800	50000	9.5	20.0
4-Methylphenol	Ave	1.256	1.375	0.6000	54800	50000	9.5	20.0
Acetophenone	Ave	1.661	1.849	0.0100	55600	50000	11.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8373	1.061	0.5000	63300	50000	26.7*	20.0
Hexachloroethane	Ave	0.5631	0.6714	0.3000	59600	50000	19.2	20.0
n,n'-Dimethylaniline	Ave	1.885	2.023	0.0100	53700	50000	7.4	20.0
Nitrobenzene	Ave	0.5619	0.6515	0.2000	58000	50000	15.9	20.0
Isophorone	Ave	0.6193	0.7058	0.4000	57000	50000	14.0	20.0
2-Nitrophenol	Ave	0.2066	0.2055	0.1000	49700	50000	-0.6	20.0
2,4-Dimethylphenol	Ave	0.3134	0.3100	0.2000	49500	50000	-1.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3712	0.4306	0.3000	58000	50000	16.0	20.0
Benzoic acid	Ave	0.1924	0.2143		55700	50000	11.4	20.0
2,4-Dichlorophenol	Ave	0.3344	0.3217	0.2000	48100	50000	-3.8	20.0
1,2,4-Trichlorobenzene	Ave	0.4107	0.3842		46800	50000	-6.4	20.0
Naphthalene	Ave	1.048	1.071	0.7000	51100	50000	2.2	20.0
4-Chloroaniline	Ave	0.4148	0.4153	0.0100	50100	50000	0.1	20.0
Hexachlorobutadiene	Ave	0.2730	0.2549	0.0100	46700	50000	-6.6	20.0
4-Chloro-3-methylphenol	Ave	0.2815	0.2880		51200	50000	2.3	20.0
2-Methylnaphthalene	Ave	0.7260	0.7075	0.4000	48700	50000	-2.5	20.0
1-Methylnaphthalene	Ave	0.6669	0.6564	0.0100	49200	50000	-1.6	20.0
Hexachlorocyclopentadiene	Ave	0.4604	0.4060	0.0500	44100	50000	-11.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7606	0.7009	0.0100	46100	50000	-7.8	20.0
2-tertbutyl-4-methylphenol	Ave	0.4970	0.4871	0.0100	49000	50000	-2.0	20.0
2,4,6-Trichlorophenol	Ave	0.4453	0.4176	0.2000	46900	50000	-6.2	20.0
2,4,5-Trichlorophenol	Ave	0.4750	0.4417	0.2000	46500	50000	-7.0	20.0
1,1'-Biphenyl	Ave	1.585	1.576	0.0100	49700	50000	-0.6	20.0
2-Chloronaphthalene	Ave	1.223	1.243	0.8000	50800	50000	1.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290469/2 Calibration Date: 04/06/2015 02:15

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202874.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8554	0.8394	0.0100	49100	50000	-1.9	20.0
2-Nitroaniline	Ave	0.4040	0.3968	0.0100	49100	50000	-1.8	20.0
1,3-Dimethylnaphthalene	Ave	0.9914	1.006	0.0100	50700	50000	1.4	20.0
Dimethyl phthalate	Ave	1.224	1.195	0.0100	48800	50000	-2.4	20.0
Coumarin	Ave	0.2095	0.2105	0.0100	50200	50000	0.5	20.0
2,6-Dinitrotoluene	Ave	0.2971	0.2859	0.2000	48100	50000	-3.8	20.0
Acenaphthylene	Ave	1.714	1.728	0.9000	50400	50000	0.8	20.0
3-Nitroaniline	Ave	0.2751	0.2896	0.0100	52600	50000	5.3	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.226	1.146	0.0100	46800	50000	-6.5	20.0
Acenaphthene	Ave	1.113	1.103	0.9000	49500	50000	-0.9	20.0
2,4-Dinitrophenol	Lin2		0.1950	0.0100	88600	100000	-11.4	20.0
4-Nitrophenol	Ave	0.2168	0.2519	0.0100	116000	100000	16.2	20.0
2,4-Dinitrotoluene	Ave	0.3616	0.3635	0.2000	50300	50000	0.5	20.0
Dibenzofuran	Ave	1.683	1.653	0.8000	49100	50000	-1.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3792	0.3212	0.0100	42400	50000	-15.3	20.0
Diethyl phthalate	Ave	1.148	1.165	0.0100	50700	50000	1.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.7184	0.6629	0.4000	46100	50000	-7.7	20.0
Fluorene	Ave	1.311	1.301	0.9000	49600	50000	-0.8	20.0
4-Nitroaniline	Ave	0.2583	0.2529	0.0100	49000	50000	-2.1	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1591	0.0100	93400	100000	-6.6	20.0
N-Nitrosodiphenylamine	Ave	0.5714	0.6021	0.0100	52700	50000	5.4	20.0
1,2-Diphenylhydrazine	Ave	0.7323	0.9587	0.0100	65500	50000	30.9*	20.0
4-Bromophenyl phenyl ether	Ave	0.2625	0.2459	0.1000	46800	50000	-6.3	20.0
Hexachlorobenzene	Ave	0.2723	0.2727	0.1000	50100	50000	0.2	20.0
Pentachlorophenol	Ave	0.1810	0.1735	0.0500	95900	100000	-4.1	20.0
Pentachloronitrobenzene	Ave	0.1241	0.1277	0.0100	51500	50000	2.9	20.0
n-Octadecane	Ave	0.4309	0.6491	0.0100	75300	50000	50.6*	20.0
Phenanthrene	Ave	1.114	1.113	0.7000	49900	50000	-0.1	20.0
Anthracene	Ave	1.123	1.154	0.7000	51400	50000	2.7	20.0
Carbazole	Ave	0.9470	0.9711	0.0100	51300	50000	2.5	20.0
Di-n-butyl phthalate	Ave	1.061	1.172	0.0100	55300	50000	10.5	20.0
Fluoranthene	Ave	1.193	1.139	0.6000	47700	50000	-4.5	20.0
Benzidine	QuaF		0.7078		52700	50000	5.3	20.0
Pyrene	Ave	1.345	1.123	0.6000	41800	50000	-16.5	20.0
Butyl benzyl phthalate	Ave	0.4703	0.5099	0.0100	54200	50000	8.4	20.0
2,3,7,8-TCDD	Ave	0.1414	0.1461	0.0100	517	500	3.3	20.0
Carbamazepine	Ave	0.5395	0.6620	0.0100	61400	50000	22.7*	20.0
3,3'-Dichlorobenzidine	Ave	0.4878	0.5587	0.0100	57300	50000	14.5	20.0
Benzo[a]anthracene	Ave	1.281	1.248	0.8000	48700	50000	-2.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6775	0.7382	0.0100	54500	50000	9.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Lab Sample ID: CCVIS 460-290469/2 Calibration Date: 04/06/2015 02:15

Instrument ID: CBNAMS12 Calib Start Date: 03/25/2015 08:26

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 03/25/2015 11:52

Lab File ID: L1202874.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.188	1.199	0.7000	50400	50000	0.9	20.0
Di-n-octyl phthalate	Ave	1.047	1.055	0.0100	50400	50000	0.8	20.0
Benzo[b]fluoranthene	Ave	1.130	1.154	0.7000	51100	50000	2.1	20.0
Benzo[k]fluoranthene	Ave	1.181	1.157	0.7000	49000	50000	-2.1	20.0
Benzo[a]pyrene	Ave	1.142	1.202	0.7000	52600	50000	5.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.292	1.654	0.5000	64000	50000	28.0*	20.0
Dibenz(a,h)anthracene	Ave	1.230	1.535	0.4000	62400	50000	24.8*	20.0
Benzo[g,h,i]perylene	Ave	1.446	1.618	0.5000	55900	50000	11.9	20.0
2-Fluorophenol (Surr)	Ave	1.234	1.416	0.0100	57400	50000	14.8	20.0
Phenol-d5 (Surr)	Ave	1.484	1.683	0.0100	56700	50000	13.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4152	0.4850	0.0100	58400	50000	16.8	20.0
2-Fluorobiphenyl	Ave	1.508	1.513	0.0100	50200	50000	0.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2182	0.2055	0.0100	47100	50000	-5.8	20.0
Terphenyl-d14 (Surr)	Ave	1.017	0.8061	0.0100	39600	50000	-20.7*	20.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202636.D

Lab ID: LCS 460-289266/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	7090	106	30-100	*
Benzaldehyde	6670	6320	95	10-160	
Caprolactam	6670	7340	110	10-127	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202664.D

Lab ID: LCS 460-289266/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	2890	87	50-105	
1,2,4,5-Tetrachlorobenzene	3330	2710	81	70-130	
2,2'-oxybis[1-chloropropane]	3330	2690	81	45-102	
2,3,4,6-Tetrachlorophenol	3330	3060	92	70-130	
2,4,5-Trichlorophenol	3330	2650	79	50-115	
2,4,6-Trichlorophenol	3330	2860	86	53-118	
2,4-Dichlorophenol	3330	2580	78	58-115	
2,4-Dimethylphenol	3330	2570	77	56-112	
2,4-Dinitrophenol	6670	5710	86	10-129	
2,4-Dinitrotoluene	3330	3230	97	53-110	
2,6-Dinitrotoluene	3330	3040	91	51-115	
2-Chloronaphthalene	3330	2840	85	51-102	
2-Chlorophenol	3330	2580	77	56-110	
2-Methylnaphthalene	3330	2750	82	51-98	
2-Methylphenol	3330	2610	78	54-117	
2-Nitroaniline	3330	2660	80	51-109	
2-Nitrophenol	3330	2600	78	55-101	
3,3'-Dichlorobenzidine	3330	1120	34	24-105	
3-Nitroaniline	3330	2020	61	32-104	
4,6-Dinitro-2-methylphenol	6670	5260	79	10-110	
4-Bromophenyl phenyl ether	3330	2690	81	44-102	
4-Chloro-3-methylphenol	3330	2570	77	55-117	
4-Chloroaniline	3330	1430	43	10-96	
4-Chlorophenyl phenyl ether	3330	3070	92	50-106	
4-Methylphenol	3330	2750	82	47-103	
4-Nitroaniline	3330	2850	86	45-106	
4-Nitrophenol	6670	5990	90	45-114	
Acenaphthene	3330	2920	88	46-100	
Acenaphthylene	3330	3120	93	51-103	
Acetophenone	3330	2680	81	40-95	
Anthracene	3330	2850	85	50-107	
Benzo[a]anthracene	3330	2670	80	46-112	
Benzo[a]pyrene	3330	2950	88	36-89	
Benzo[b]fluoranthene	3330	3070	92	33-96	
Benzo[g,h,i]perylene	3330	2150	65	43-106	
Benzo[k]fluoranthene	3330	3090	93	35-115	
Bis(2-chloroethoxy)methane	3330	2650	80	51-100	
Bis(2-chloroethyl)ether	3330	2710	81	44-101	
Bis(2-ethylhexyl) phthalate	3330	3050	92	49-119	
Butyl benzyl phthalate	3330	3100	93	49-117	
Carbazole	3330	2640	79	49-104	
Chrysene	3330	2750	82	45-114	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202664.D

Lab ID: LCS 460-289266/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz(a,h)anthracene	3330	2460	74	43-107	
Dibenzofuran	3330	3020	91	52-106	
Diethyl phthalate	3330	3130	94	52-114	
Dimethyl phthalate	3330	3030	91	52-112	
Di-n-butyl phthalate	3330	2780	83	50-108	
Di-n-octyl phthalate	3330	3910	117	40-106	*
Fluoranthene	3330	2630	79	49-108	
Fluorene	3330	3220	97	51-108	
Hexachlorobenzene	3330	2780	83	43-104	
Hexachlorobutadiene	3330	2540	76	45-98	
Hexachlorocyclopentadiene	3330	3400	102	24-98	*
Hexachloroethane	3330	2620	79	45-90	
Indeno[1,2,3-cd]pyrene	3330	2360	71	43-109	
Isophorone	3330	2840	85	48-97	
Naphthalene	3330	2590	78	53-94	
Nitrobenzene	3330	2630	79	42-106	
N-Nitrosodi-n-propylamine	3330	3090	93	42-107	
Pentachlorophenol	6670	5130	77	19-113	
Phenanthrene	3330	2780	83	48-108	
Phenol	3330	2620	79	54-115	
Pyrene	3330	3160	95	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9843.D

Lab ID: LCS 460-289513/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	7070	106	30-100	*
Benzaldehyde	6670	5450	82	10-160	
Caprolactam	6670	5650	85	10-127	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9844.D

Lab ID: LCS 460-289513/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	3230	97	50-105	
1,2,4,5-Tetrachlorobenzene	3330	3380	101	70-130	
2,2'-oxybis[1-chloropropane]	3330	2490	75	45-102	
2,3,4,6-Tetrachlorophenol	3330	3310	99	70-130	
2,4,5-Trichlorophenol	3330	3250	97	50-115	
2,4,6-Trichlorophenol	3330	3270	98	53-118	
2,4-Dichlorophenol	3330	2630	79	58-115	
2,4-Dimethylphenol	3330	2430	73	56-112	
2,4-Dinitrophenol	6670	5760	86	10-129	
2,4-Dinitrotoluene	3330	3520	105	53-110	
2,6-Dinitrotoluene	3330	3260	98	51-115	
2-Chloronaphthalene	3330	3110	93	51-102	
2-Chlorophenol	3330	2340	70	56-110	
2-Methylnaphthalene	3330	2800	84	51-98	
2-Methylphenol	3330	2350	70	54-117	
2-Nitroaniline	3330	2530	76	51-109	
2-Nitrophenol	3330	2530	76	55-101	
3,3'-Dichlorobenzidine	3330	1440	43	24-105	
3-Nitroaniline	3330	1700	51	32-104	
4,6-Dinitro-2-methylphenol	6670	5590	84	10-110	
4-Bromophenyl phenyl ether	3330	3130	94	44-102	
4-Chloro-3-methylphenol	3330	2640	79	55-117	
4-Chloroaniline	3330	1490	45	10-96	
4-Chlorophenyl phenyl ether	3330	3150	95	50-106	
4-Methylphenol	3330	2280	69	47-103	
4-Nitroaniline	3330	2310	69	45-106	
4-Nitrophenol	6670	5840	88	45-114	
Acenaphthene	3330	3150	95	46-100	
Acenaphthylene	3330	3340	100	51-103	
Acetophenone	3330	2550	76	40-95	
Anthracene	3330	2980	89	50-107	
Benzo[a]anthracene	3330	2940	88	46-112	
Benzo[a]pyrene	3330	3120	94	36-89	*
Benzo[b]fluoranthene	3330	3160	95	33-96	
Benzo[g,h,i]perylene	3330	2860	86	43-106	
Benzo[k]fluoranthene	3330	2950	88	35-115	
Bis(2-chloroethoxy)methane	3330	2540	76	51-100	
Bis(2-chloroethyl)ether	3330	2450	73	44-101	
Bis(2-ethylhexyl) phthalate	3330	3150	94	49-119	
Butyl benzyl phthalate	3330	3030	91	49-117	
Carbazole	3330	2880	87	49-104	
Chrysene	3330	2720	82	45-114	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9844.D

Lab ID: LCS 460-289513/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz(a,h)anthracene	3330	3390	102	43-107	
Dibenzofuran	3330	3170	95	52-106	
Diethyl phthalate	3330	3390	102	52-114	
Dimethyl phthalate	3330	3280	98	52-112	
Di-n-butyl phthalate	3330	3100	93	50-108	
Di-n-octyl phthalate	3330	3370	101	40-106	
Fluoranthene	3330	3030	91	49-108	
Fluorene	3330	3330	100	51-108	
Hexachlorobenzene	3330	3240	97	43-104	
Hexachlorobutadiene	3330	3100	93	45-98	
Hexachlorocyclopentadiene	3330	3400	102	24-98	*
Hexachloroethane	3330	2660	80	45-90	
Indeno[1,2,3-cd]pyrene	3330	2940	88	43-109	
Isophorone	3330	2710	81	48-97	
Naphthalene	3330	2680	80	53-94	
Nitrobenzene	3330	2720	82	42-106	
N-Nitrosodi-n-propylamine	3330	2790	84	42-107	
Pentachlorophenol	6670	4940	74	19-113	
Phenanthrene	3330	2990	90	48-108	
Phenol	3330	2270	68	54-115	
Pyrene	3330	2850	86	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202726.D

Lab ID: LCS 460-289793/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	2940	88	50-105	
1,2,4,5-Tetrachlorobenzene	3330	2850	85	70-130	
2,2'-oxybis[1-chloropropane]	3330	2340	70	45-102	
2,3,4,6-Tetrachlorophenol	3330	2910	87	70-130	
2,4,5-Trichlorophenol	3330	2820	85	50-115	
2,4,6-Trichlorophenol	3330	2880	86	53-118	
2,4-Dichlorophenol	3330	2510	75	58-115	
2,4-Dimethylphenol	3330	2530	76	56-112	
2,4-Dinitrophenol	6670	2530	38	10-129	
2,4-Dinitrotoluene	3330	3250	98	53-110	
2,6-Dinitrotoluene	3330	3060	92	51-115	
2-Chloronaphthalene	3330	2950	88	51-102	
2-Chlorophenol	3330	2140	64	56-110	
2-Methylnaphthalene	3330	2530	76	51-98	
2-Methylphenol	3330	2350	71	54-117	
2-Nitroaniline	3330	2510	75	51-109	
2-Nitrophenol	3330	2370	71	55-101	
3,3'-Dichlorobenzidine	3330	1880	56	24-105	
3-Nitroaniline	3330	2640	79	32-104	
4,6-Dinitro-2-methylphenol	6670	3690	55	10-110	
4-Bromophenyl phenyl ether	3330	2870	86	44-102	
4-Chloro-3-methylphenol	3330	2560	77	55-117	
4-Chloroaniline	3330	2290	69	10-96	
4-Chlorophenyl phenyl ether	3330	3040	91	50-106	
4-Methylphenol	3330	2450	73	47-103	
4-Nitroaniline	3330	3030	91	45-106	
4-Nitrophenol	6670	6100	91	45-114	
Acenaphthene	3330	2980	89	46-100	
Acenaphthylene	3330	3150	94	51-103	
Acetophenone	3330	2340	70	40-95	
Anthracene	3330	3000	90	50-107	
Benzo[a]anthracene	3330	2870	86	46-112	
Benzo[a]pyrene	3330	2980	89	36-89	
Benzo[b]fluoranthene	3330	3110	93	33-96	
Benzo[g,h,i]perylene	3330	2520	76	43-106	
Benzo[k]fluoranthene	3330	3070	92	35-115	
Bis(2-chloroethoxy)methane	3330	2540	76	51-100	
Bis(2-chloroethyl)ether	3330	2280	68	44-101	
Bis(2-ethylhexyl) phthalate	3330	3470	104	49-119	
Butyl benzyl phthalate	3330	3470	104	49-117	
Carbazole	3330	2910	87	49-104	
Chrysene	3330	2810	84	45-114	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202726.D

Lab ID: LCS 460-289793/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz(a,h)anthracene	3330	2870	86	43-107	
Dibenzofuran	3330	3000	90	52-106	
Diethyl phthalate	3330	3180	95	52-114	
Dimethyl phthalate	3330	3070	92	52-112	
Di-n-butyl phthalate	3330	3110	93	50-108	
Di-n-octyl phthalate	3330	3810	114	40-106	*
Fluoranthene	3330	2770	83	49-108	
Fluorene	3330	3170	95	51-108	
Hexachlorobenzene	3330	3030	91	43-104	
Hexachlorobutadiene	3330	2260	68	45-98	
Hexachlorocyclopentadiene	3330	3490	105	24-98	*
Hexachloroethane	3330	2190	66	45-90	
Indeno[1,2,3-cd]pyrene	3330	2850	85	43-109	
Isophorone	3330	2710	81	48-97	
Naphthalene	3330	2360	71	53-94	
Nitrobenzene	3330	2320	70	42-106	
N-Nitrosodi-n-propylamine	3330	2780	83	42-107	
Pentachlorophenol	6670	4980	75	19-113	
Phenanthrene	3330	2960	89	48-108	
Phenol	3330	2260	68	54-115	
Pyrene	3330	3550	107	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202727.D

Lab ID: LCS 460-289793/24-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	5820	87	30-100	
Benzaldehyde	6670	5140	77	10-160	
Caprolactam	6670	6020	90	10-127	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9849.D

Lab ID: 460-92511-1 MS Client ID: SB42(9-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3750	32 U	1960	52	50-105	
1,2,4,5-Tetrachlorobenzene	3750	28 U	2030	54	70-130	F1
2,2'-oxybis[1-chloropropane]	3750	15 U	1620	43	45-102	F1
2,3,4,6-Tetrachlorophenol	3750	35 U	1500	40	70-130	F1
2,4,5-Trichlorophenol	3750	37 U	1730	46	50-115	F1
2,4,6-Trichlorophenol	3750	11 U	1790	48	53-118	F1
2,4-Dichlorophenol	3750	8.8 U	1540	41	58-115	F1
2,4-Dimethylphenol	3750	82 U	1500	40	56-112	F1
2,4-Dinitrophenol	7500	280 U	309	4	10-129	F1
2,4-Dinitrotoluene	3750	15 U	2180	58	53-110	
2,6-Dinitrotoluene	3750	20 U	2130	57	51-115	
2-Chloronaphthalene	3750	8.4 U	1910	51	51-102	
2-Chlorophenol	3750	9.5 U	1480	39	56-110	F1
2-Methylnaphthalene	3750	8.2 U	1740	47	51-98	F1
2-Methylphenol	3750	16 U	1520	41	54-117	F1
2-Nitroaniline	3750	12 U	1580	42	51-109	F1
2-Nitrophenol	3750	12 U	1070	29	55-101	F1
3,3'-Dichlorobenzidine	3750	42 U	1320	35	24-105	
3-Nitroaniline	3750	11 U	1500	40	32-104	
4,6-Dinitro-2-methylphenol	7500	99 U	820	11	10-110	
4-Bromophenyl phenyl ether	3750	12 U	1910	51	44-102	
4-Chloro-3-methylphenol	3750	16 U	1650	44	55-117	F1
4-Chloroaniline	3750	9.6 U	1050	28	10-96	
4-Chlorophenyl phenyl ether	3750	11 U	2020	54	50-106	
4-Methylphenol	3750	10 U	1420	38	47-103	F1
4-Nitroaniline	3750	14 U	1520	41	45-106	F1
4-Nitrophenol	7500	180 U	3120	42	45-114	F1
Acenaphthene	3750	9.0 U	1940	52	46-100	
Acenaphthylene	3750	9.6 U	2050	55	51-103	
Acetophenone	3750	8.1 U	1710	46	40-95	
Anthracene	3750	35 U	1860	50	50-107	
Atrazine	7500	17 U	5330	71	30-100	*
Benzaldehyde	7500	28 U	3470	46	10-160	
Benzo[a]anthracene	3750	31 U	1830	49	46-112	
Benzo[a]pyrene	3750	11 U	1930	51	36-89	
Benzo[b]fluoranthene	3750	15 U	1940	52	33-96	
Benzo[g,h,i]perylene	3750	21 U	1700	45	43-106	
Benzo[k]fluoranthene	3750	16 U	1820	48	35-115	
Bis(2-chloroethoxy)methane	3750	12 U	1610	43	51-100	F1
Bis(2-chloroethyl)ether	3750	8.8 U	1460	39	44-101	F1
Bis(2-ethylhexyl) phthalate	3750	15 U	2030	54	49-119	
Butyl benzyl phthalate	3750	11 U	1960	52	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9849.D

Lab ID: 460-92511-1 MS Client ID: SB42(9-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	7500	27 U	3000	40	10-127	
Carbazole	3750	9.2 U	1770	47	49-104	F1
Chrysene	3750	10 U	1700	45	45-114	
Dibenz(a,h)anthracene	3750	19 U	2110	56	43-107	
Dibenzofuran	3750	11 U	1950	52	52-106	
Diethyl phthalate	3750	11 U	2210	59	52-114	
Dimethyl phthalate	3750	11 U	2120	57	52-112	
Di-n-butyl phthalate	3750	11 U	1970	53	50-108	
Di-n-octyl phthalate	3750	19 U	2110	56	40-106	
Fluoranthene	3750	11 U	1880	50	49-108	
Fluorene	3750	8.1 U	2060	55	51-108	
Hexachlorobenzene	3750	15 U	1970	53	43-104	
Hexachlorobutadiene	3750	10 U	1890	50	45-98	
Hexachlorocyclopentadiene	3750	23 U	1660	44	24-98	
Hexachloroethane	3750	14 U	1680	45	45-90	
Indeno[1,2,3-cd]pyrene	3750	25 U	1950	52	43-109	
Isophorone	3750	8.0 U	1710	46	48-97	F1
Naphthalene	3750	9.5 U	1640	44	53-94	F1
Nitrobenzene	3750	12 U	1640	44	42-106	
N-Nitrosodi-n-propylamine	3750	12 U	1800	48	42-107	
Pentachlorophenol	7500	45 U	1120	15	19-113	F1
Phenanthrene	3750	9.9 U	1850	49	48-108	
Phenol	3750	12 U	1430	38	54-115	F1
Pyrene	3750	17 U	1770	47	49-116	F1

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9850.D

Lab ID: 460-92511-1 MSD Client ID: SB42(9-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	3750	2420	65	21	30	50-105	
1,2,4,5-Tetrachlorobenzene	3750	2500	67	21	30	70-130	F1
2,2'-oxybis[1-chloropropane]	3750	1920	51	17	30	45-102	
2,3,4,6-Tetrachlorophenol	3750	1980	53	28	30	70-130	F1
2,4,5-Trichlorophenol	3750	2180	58	23	30	50-115	
2,4,6-Trichlorophenol	3750	2290	61	24	30	53-118	
2,4-Dichlorophenol	3750	1930	51	22	30	58-115	F1
2,4-Dimethylphenol	3750	1860	50	21	30	56-112	F1
2,4-Dinitrophenol	7490	406	5	27	30	10-129	F1
2,4-Dinitrotoluene	3750	2770	74	24	30	53-110	
2,6-Dinitrotoluene	3750	2580	69	19	30	51-115	
2-Chloronaphthalene	3750	2320	62	19	30	51-102	
2-Chlorophenol	3750	1850	49	22	30	56-110	F1
2-Methylnaphthalene	3750	2120	57	20	30	51-98	
2-Methylphenol	3750	1900	51	22	30	54-117	F1
2-Nitroaniline	3750	1960	52	22	30	51-109	
2-Nitrophenol	3750	1380	37	26	30	55-101	F1
3,3'-Dichlorobenzidine	3750	1640	44	22	30	24-105	
3-Nitroaniline	3750	1920	51	24	30	32-104	
4,6-Dinitro-2-methylphenol	7490	1020	14	22	30	10-110	
4-Bromophenyl phenyl ether	3750	2270	61	17	30	44-102	
4-Chloro-3-methylphenol	3750	2020	54	20	30	55-117	F1
4-Chloroaniline	3750	1250	33	17	30	10-96	
4-Chlorophenyl phenyl ether	3750	2480	66	20	30	50-106	
4-Methylphenol	3750	1760	47	21	30	47-103	
4-Nitroaniline	3750	1990	53	26	30	45-106	
4-Nitrophenol	7490	4100	55	27	30	45-114	
Acenaphthene	3750	2360	63	20	30	46-100	
Acenaphthylene	3750	2520	67	21	30	51-103	
Acetophenone	3750	2060	55	19	30	40-95	
Anthracene	3750	2180	58	15	30	50-107	
Atrazine	7490	5480	73	3	30	30-100	*
Benzaldehyde	7490	3710	50	7	30	10-160	
Benzo[a]anthracene	3750	2220	59	19	30	46-112	
Benzo[a]pyrene	3750	2350	63	20	30	36-89	
Benzo[b]fluoranthene	3750	2340	63	19	30	33-96	
Benzo[g,h,i]perylene	3750	2160	58	24	30	43-106	
Benzo[k]fluoranthene	3750	2240	60	21	30	35-115	
Bis(2-chloroethoxy)methane	3750	1930	52	18	30	51-100	
Bis(2-chloroethyl)ether	3750	1770	47	19	30	44-101	
Bis(2-ethylhexyl) phthalate	3750	2430	65	18	30	49-119	
Butyl benzyl phthalate	3750	2290	61	16	30	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: z9850.D

Lab ID: 460-92511-1 MSD Client ID: SB42(9-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	7490	2220	30	30	30	10-127	
Carbazole	3750	2210	59	22	30	49-104	
Chrysene	3750	1970	53	15	30	45-114	
Dibenz(a,h)anthracene	3750	2630	70	22	30	43-107	
Dibenzofuran	3750	2420	64	21	30	52-106	
Diethyl phthalate	3750	2720	73	21	30	52-114	
Dimethyl phthalate	3750	2680	72	23	30	52-112	
Di-n-butyl phthalate	3750	2400	64	20	30	50-108	
Di-n-octyl phthalate	3750	2640	71	23	30	40-106	
Fluoranthene	3750	2280	61	19	30	49-108	
Fluorene	3750	2610	70	23	30	51-108	
Hexachlorobenzene	3750	2380	63	19	30	43-104	
Hexachlorobutadiene	3750	2240	60	17	30	45-98	
Hexachlorocyclopentadiene	3750	2040	54	21	30	24-98	
Hexachloroethane	3750	2040	54	19	30	45-90	
Indeno[1,2,3-cd]pyrene	3750	2350	63	19	30	43-109	
Isophorone	3750	2090	56	20	30	48-97	
Naphthalene	3750	1970	53	18	30	53-94	
Nitrobenzene	3750	1980	53	19	30	42-106	
N-Nitrosodi-n-propylamine	3750	2150	57	18	30	42-107	
Pentachlorophenol	7490	1680	22	40	30	19-113	F2
Phenanthrene	3750	2240	60	19	30	48-108	
Phenol	3750	1720	46	18	30	54-115	F1
Pyrene	3750	2160	58	20	30	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202769.D

Lab ID: 460-92568-4 MSD Client ID: SB41 (5-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	3980	7560 J	77	3	30	50-105	
1,2,4,5-Tetrachlorobenzene	3980	3830 J	96	11	30	70-130	
2,2'-oxybis[1-chloropropane]	3980	3440 J	87	2	30	45-102	
2,3,4,6-Tetrachlorophenol	3980	1900 U	0	NC	30	70-130	F1
2,4,5-Trichlorophenol	3980	2290 J	58	8	30	50-115	
2,4,6-Trichlorophenol	3980	2310 J	58	11	30	53-118	
2,4-Dichlorophenol	3980	2910 J	73	2	30	58-115	
2,4-Dimethylphenol	3980	4300 U	NC	NC	30	56-112	
2,4-Dinitrophenol	7950	15000 U	NC	NC	30	10-129	
2,4-Dinitrotoluene	3980	4160	105	14	30	53-110	
2,6-Dinitrotoluene	3980	3830 J	96	2	30	51-115	
2-Chloronaphthalene	3980	4080 J	103	1	30	51-102	F1
2-Chlorophenol	3980	3000 J	75	5	30	56-110	
2-Methylnaphthalene	3980	13000 J	27	4	30	51-98	F1
2-Methylphenol	3980	3620 J	91	11	30	54-117	
2-Nitroaniline	3980	3370 J	85	2	30	51-109	
2-Nitrophenol	3980	2060 J	52	24	30	55-101	F1
3,3'-Dichlorobenzidine	3980	2750 J	69	10	30	24-105	
3-Nitroaniline	3980	580 U	0	NC	30	32-104	F1
4,6-Dinitro-2-methylphenol	7950	5300 U	0	NC	30	10-110	F1
4-Bromophenyl phenyl ether	3980	3650 J	92	12	30	44-102	
4-Chloro-3-methylphenol	3980	2880 J	72	6	30	55-117	
4-Chloroaniline	3980	2320 J	58	15	30	10-96	
4-Chlorophenyl phenyl ether	3980	3610 J	91	10	30	50-106	
4-Methylphenol	3980	3840 J	97	19	30	47-103	
4-Nitroaniline	3980	2200 J	55	32	30	45-106	F2
4-Nitrophenol	7950	9500 U	NC	NC	30	45-114	
Acenaphthene	3980	18600 J	-17	3	30	46-100	4
Acenaphthylene	3980	6310 J	80	4	30	51-103	
Acetophenone	3980	2740 J	69	1	30	40-95	
Anthracene	3980	40100	-201	3	30	50-107	4
Atrazine	7950	7690 J	97	17	30	30-100	
Benzaldehyde	7950	5790 J	73	6	30	10-160	
Benzo[a]anthracene	3980	49200	-354	7	30	46-112	4
Benzo[a]pyrene	3980	41200	-283	10	30	36-89	4
Benzo[b]fluoranthene	3980	58100	-484	17	30	33-96	4
Benzo[g,h,i]perylene	3980	11400 J	-47	21	30	43-106	F1 4
Benzo[k]fluoranthene	3980	21500	-165	12	30	35-115	4
Bis(2-chloroethoxy)methane	3980	3650 J	92	0	30	51-100	
Bis(2-chloroethyl)ether	3980	3220	81	1	30	44-101	
Bis(2-ethylhexyl) phthalate	3980	4420 J	111	11	30	49-119	
Butyl benzyl phthalate	3980	3130 J	79	17	30	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202769.D

Lab ID: 460-92568-4 MSD Client ID: SB41 (5-10) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	7950	4370 J	55	21	30	10-127	
Carbazole	3980	16500 J	-66	1	30	49-104	4
Chrysene	3980	48500	-387	7	30	45-114	4
Dibenz(a,h)anthracene	3980	5650	24	16	30	43-107	F1
Dibenzofuran	3980	20400	-62	1	30	52-106	4
Diethyl phthalate	3980	4370 J	110	3	30	52-114	
Dimethyl phthalate	3980	4240 J	107	5	30	52-112	
Di-n-butyl phthalate	3980	3870 J	97	7	30	50-108	
Di-n-octyl phthalate	3980	4340 J	109	4	30	40-106	F1
Fluoranthene	3980	130000	-1185	6	30	49-108	4
Fluorene	3980	24600	-93	4	30	51-108	4
Hexachlorobenzene	3980	3460	87	2	30	43-104	
Hexachlorobutadiene	3980	2480 J	62	23	30	45-98	
Hexachlorocyclopentadiene	3980	1200 U	0	NC	30	24-98	F1
Hexachloroethane	3980	3000	76	1	30	45-90	
Indeno[1,2,3-cd]pyrene	3980	15300	-59	17	30	43-109	4
Isophorone	3980	3790 J	95	5	30	48-97	
Naphthalene	3980	28700	-159	11	30	53-94	4
Nitrobenzene	3980	3330	84	4	30	42-106	
N-Nitrosodi-n-propylamine	3980	3530	89	5	30	42-107	
Pentachlorophenol	7950	2400 U	0	NC	30	19-113	F1
Phenanthrene	3980	160000	-1466	2	30	48-108	4
Phenol	3980	3300 J	83	5	30	54-115	
Pyrene	3980	80300	-601	4	30	49-116	4

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202768.D

Lab ID: 460-92568-4 MS Client ID: SB41 (5-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3980	4500 J	7320 J	71	50-105	
1,2,4,5-Tetrachlorobenzene	3980	1500 U	3450 J	87	70-130	
2,2'-oxybis[1-chloropropane]	3980	810 U	3360 J	85	45-102	
2,3,4,6-Tetrachlorophenol	3980	1900 U	1900 U	0	70-130	F1
2,4,5-Trichlorophenol	3980	2000 U	2480 J	62	50-115	
2,4,6-Trichlorophenol	3980	560 U	2570 J	65	53-118	
2,4-Dichlorophenol	3980	460 U	2980 J	75	58-115	
2,4-Dimethylphenol	3980	4300 U	4300 U	NC	56-112	
2,4-Dinitrophenol	7950	15000 U	15000 U	NC	10-129	
2,4-Dinitrotoluene	3980	780 U	4800	121	53-110	F1
2,6-Dinitrotoluene	3980	1000 U	3900 J	98	51-115	
2-Chloronaphthalene	3980	450 U	4040 J	102	51-102	
2-Chlorophenol	3980	500 U	2850 J	72	56-110	
2-Methylnaphthalene	3980	12000 J	12400 J	13	51-98	F1
2-Methylphenol	3980	860 U	3250 J	82	54-117	
2-Nitroaniline	3980	650 U	3430 J	86	51-109	
2-Nitrophenol	3980	660 U	2630 J	66	55-101	
3,3'-Dichlorobenzidine	3980	2200 U	3030 J	76	24-105	
3-Nitroaniline	3980	580 U	3620 J	91	32-104	
4,6-Dinitro-2-methylphenol	7950	5200 U	5300 U	0	10-110	F1
4-Bromophenyl phenyl ether	3980	620 U	3230 J	81	44-102	
4-Chloro-3-methylphenol	3980	850 U	3060 J	77	55-117	
4-Chloroaniline	3980	510 U	2710 J	68	10-96	
4-Chlorophenyl phenyl ether	3980	590 U	4000 J	101	50-106	
4-Methylphenol	3980	540 U	3170 J	80	47-103	
4-Nitroaniline	3980	740 U	3040 J	76	45-106	
4-Nitrophenol	7950	9500 U	9500 U	NC	45-114	
Acenaphthene	3980	19000 J	18100 J	-30	46-100	4
Acenaphthylene	3980	3100 J	6570 J	86	51-103	
Acetophenone	3980	430 U	2770 J	70	40-95	
Anthracene	3980	48000	38900	-230	50-107	4
Atrazine	7950	870 U	9070	114	30-100	F1
Benzaldehyde	7950	1500 U	5450 J	69	10-160	
Benzo[a]anthracene	3980	63000	45700	-443	46-112	4
Benzo[a]pyrene	3980	52000	37400	-379	36-89	4
Benzo[b]fluoranthene	3980	77000	48900	-713	33-96	4
Benzo[g,h,i]perylene	3980	13000 J	9190 J	-102	43-106	F1 4
Benzo[k]fluoranthene	3980	28000	24100	-99	35-115	4
Bis(2-chloroethoxy)methane	3980	610 U	3650 J	92	51-100	
Bis(2-chloroethyl)ether	3980	460 U	3190	80	44-101	
Bis(2-ethylhexyl) phthalate	3980	770 U	3960 J	100	49-119	
Butyl benzyl phthalate	3980	610 U	3710 J	93	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: L1202768.D

Lab ID: 460-92568-4 MS Client ID: SB41 (5-10) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	7950	1400 U	5400 J	68	10-127	
Carbazole	3980	19000 J	16300 J	-70	49-104	4
Chrysene	3980	64000	45400	-465	45-114	4
Dibenz(a,h)anthracene	3980	4700	4820	3	43-107	F1
Dibenzofuran	3980	23000	20500	-59	52-106	4
Diethyl phthalate	3980	560 U	4240 J	107	52-114	
Dimethyl phthalate	3980	570 U	4430 J	111	52-112	
Di-n-butyl phthalate	3980	590 U	4160 J	105	50-108	
Di-n-octyl phthalate	3980	1000 U	4520 J	114	40-106	F1
Fluoranthene	3980	180000	123000	-1376	49-108	4
Fluorene	3980	28000	25600	-70	51-108	4
Hexachlorobenzene	3980	800 U	3540	89	43-104	
Hexachlorobutadiene	3980	550 U	3130 J	79	45-98	
Hexachlorocyclopentadiene	3980	1200 U	1200 U	0	24-98	F1
Hexachloroethane	3980	720 U	2960	74	45-90	
Indeno[1,2,3-cd]pyrene	3980	18000	12900	-120	43-109	4
Isophorone	3980	420 U	3620 J	91	48-97	
Naphthalene	3980	35000	25700	-234	53-94	4
Nitrobenzene	3980	620 U	3460	87	42-106	
N-Nitrosodi-n-propylamine	3980	660 U	3720	94	42-107	
Pentachlorophenol	7950	2400 U	2660 J	34	19-113	
Phenanthrene	3980	220000	157000	-1546	48-108	4
Phenol	3980	640 U	3140 J	79	54-115	
Pyrene	3980	100000	77200	-679	49-116	4

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Medium

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	TFT1	#	
SB43 (8-9)	460-92355-1	110		50X
SB43 (45-48)	460-92355-2	0	X	2500X
SB43 (49-50)	460-92355-3	94		50X
DUPE-032615	460-92355-4	0	X	5000X
SB44 (9-10)	460-92355-5	115		50X
SB44 (38-40)	460-92355-6	118		50X
SB44 (49-50)	460-92355-7	85		50X
SB42(9-10)	460-92511-1	99		50X
SB42(35-37.5)	460-92511-2	101		50X
SB42(49-50)	460-92511-3	105		50X
SB40 (9-10)	460-92568-1	112		50X
SB40 (20-23.5)	460-92568-2	0	X	2500X
SB40 (50-55)	460-92568-3	106		50X
SB41 (5-10)	460-92568-4	114		50X
SB41 (35-37)	460-92568-5	86		100X
SB41 (38-39)	460-92568-6	123		50X
	MB 460-289597/6	101		
	MB 460-289813/6	98		
	MB 460-290168/6	86		
	MB 460-290168/32	90		
	LCS 460-289597/3	103		
	LCS 460-289813/3	102		
	LCS 460-290168/29	100		
	LCSD 460-289597/4	101		
	LCSD 460-289813/4	101		
	LCSD 460-290168/30	101		
SB41 (5-10) MS	460-92568-4 MS	83		
SB41 (5-10) MSD	460-92568-4 MSD	81		

	QC LIMITS
TFT = a,a,a-Trifluorotoluene	70-130

Column to be used to flag recovery values

FORM II 8015D

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006288.D

Lab ID: 460-92355-3 MS SB43 (49-50) Client ID: SB43 (49-50) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
#2 Diesel Fuel	163	11	108	59	70-130	F1

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006312.D

Lab ID: 460-92511-3 MS Client ID: SB42(49-50) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
#2 Diesel Fuel	152	1.3 U	111	73	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006336.D

Lab ID: 460-92568-4 MS Client ID: SB41 (5-10) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
#2 Diesel Fuel	159	2700	1950	-491	70-130	4

SA < 25% SR

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006289.D

Lab ID: 460-92355-3 MSD SB43(49-50) Client ID: SB43 (49-50) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
#2 Diesel Fuel	163	111	62	4	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006313.D

Lab ID: 460-92511-3 MSD Client ID: SB42(49-50) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
#2 Diesel Fuel	152	115	76	4	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low Lab File ID: 3F006337.D

Lab ID: 460-92568-4 MSD Client ID: SB41 (5-10) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
#2 Diesel Fuel	159	1850	-557	6	30	70-130	4

SA < 25% SR

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH #	
SB43 (8-9)	460-92355-1	0 X D	50X
SB43 (45-48)	460-92355-2	0 X D	100X
SB43 (49-50)	460-92355-3	79	
DUPE-032615	460-92355-4	0 X D	10X
SB44 (9-10)	460-92355-5	100	
SB44 (38-40)	460-92355-6	83	
SB44 (49-50)	460-92355-7	88	
SB42(9-10)	460-92511-1	81	
SB42(35-37.5)	460-92511-2	78	
SB42(49-50)	460-92511-3	80	
SB40 (9-10)	460-92568-1	0 X D	50X
SB40 (20-23.5)	460-92568-2	0 X D	50X
SB40 (50-55)	460-92568-3	112	
SB41 (5-10)	460-92568-4	0 X D	10X
SB41 (35-37)	460-92568-5	0 X D	10X
SB41 (38-39)	460-92568-6	76	
	MB 460-289394/1-A	91	
	MB 460-289655/1-A	88	
	MB 460-289890/1-A	92	
	LCS 460-289394/2-A	102	
	LCS 460-289655/2-A	115	
	LCS 460-289890/2-A	115	
SB43 (49-50) MS	460-92355-3 MS	93	
SB42(49-50) MS	460-92511-3 MS	74	
SB41 (5-10) MS	460-92568-4 MS	0 X D	
SB43 (49-50) MSD	460-92355-3 MSD	93	
SB42(49-50) MSD	460-92511-3 MSD	85	
SB41 (5-10) MSD	460-92568-4 MSD	0 X D	

	QC LIMITS
OTPH = o-Terphenyl	45-132

Column to be used to flag recovery values

FORM II 8015D

6-IN
DUPLICATES
METALS

Client ID: SB41 (5-10) DU | Lab ID: 460-92568-4 DU

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

% Solids for Sample: 83.8 | % Solids for Duplicate: 83.8

Matrix: Solid | Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	2.1	0.41	U	0.41	U	NC		6010C
Aluminum	41.9	9610		9076		6		6010C
Arsenic	3.1	7.2		7.69		6		6010C
Barium	41.9	146		135.1		7		6010C
Beryllium	0.42	0.29	U	0.28	U	NC		6010C
Calcium	1050	12500		23290		60	F3	6010C
Cadmium	0.84	0.30	U	0.30	U	NC		6010C
Cobalt	10.5	8.6	J	8.58	J	0		6010C
Chromium	2.1	35.8		34.07		5		6010C
Copper	5.2	136		123.3		10		6010C
Iron	31.4	23600		22200		6		6010C
Potassium	1050	1180		1177		0.09		6010C
Magnesium	1050	4500		3769		18		6010C
Manganese	3.1	547		474.6		14		6010C
Sodium	1050	174	J	145.9	J	18		6010C
Nickel	8.4	17.9		18.23		2		6010C
Lead	2.1	406		318.3		24	~~F3~~	6010C
Antimony	4.2	3.3	J	4.75		35	~~F5~~	6010C
Selenium	4.2	1.2	U	1.2	U	NC		6010C
Thallium	4.2	2.1	U	2.1	U	NC		6010C
Vanadium	10.5	32.3		28.54		12		6010C
Zinc	6.3	350		328.6		6		6010C
Mercury	0.51	12.8		12.28		4		7471B

pos. J

RPD < 35%

Difference < RL of 4 mg/kg

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SB41 (5-10) MS | Lab ID: 460-92568-4 MS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 83.8

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.18		0.41	U	5.37	96	75-125		6010C
Aluminum	11860		9610		215	1048	75-125	4	6010C
Arsenic	208.8		7.2		215	94	75-125		6010C
Barium	352.1		146		215	96	75-125		6010C
Beryllium	5.69		0.29	U	5.37	106	75-125		6010C
Calcium	13870		12500		2150	63	75-125	4	6010C
Cadmium	5.30		0.30	U	5.37	99	75-125		6010C
Cobalt	63.04		8.6	J	53.7	101	75-125		6010C
Chromium	55.39		35.8		21.5	91	75-125		6010C
Copper	199.4		136		26.9	236	75-125	4	6010C
Iron	22520		23600		107	-1002	75-125	4	6010C
Potassium	3443		1180		2150	105	75-125		6010C
Magnesium	6783		4500		2150	106	75-125		6010C
Manganese	544.2		547		53.7	-5	75-125	4	6010C
Sodium	2259		174	J	2150	97	75-125		6010C
Nickel	75.20		17.9		53.7	107	75-125		6010C
Lead	335.1		406		53.7	-133	75-125	4	6010C
Antimony	18.33		3.3	J	53.7	28	75-125	F1	6010C
Selenium	203.2		1.2	U	215	95	75-125		6010C
Thallium	223.3		2.1	U	215	104	75-125		6010C
Vanadium	91.09		32.3		53.7	109	75-125		6010C
Zinc	306.5		350		53.7	-80	75-125	4	6010C
Mercury	12.23		12.8		0.0994	-600	80-120	4	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SB41 (5-10) PDS | Lab ID: 460-92568-4 PDS

Lab Name: TestAmerica Edison | Job No.: 460-92355-1

SDG No.: 92355, 92511, 92568

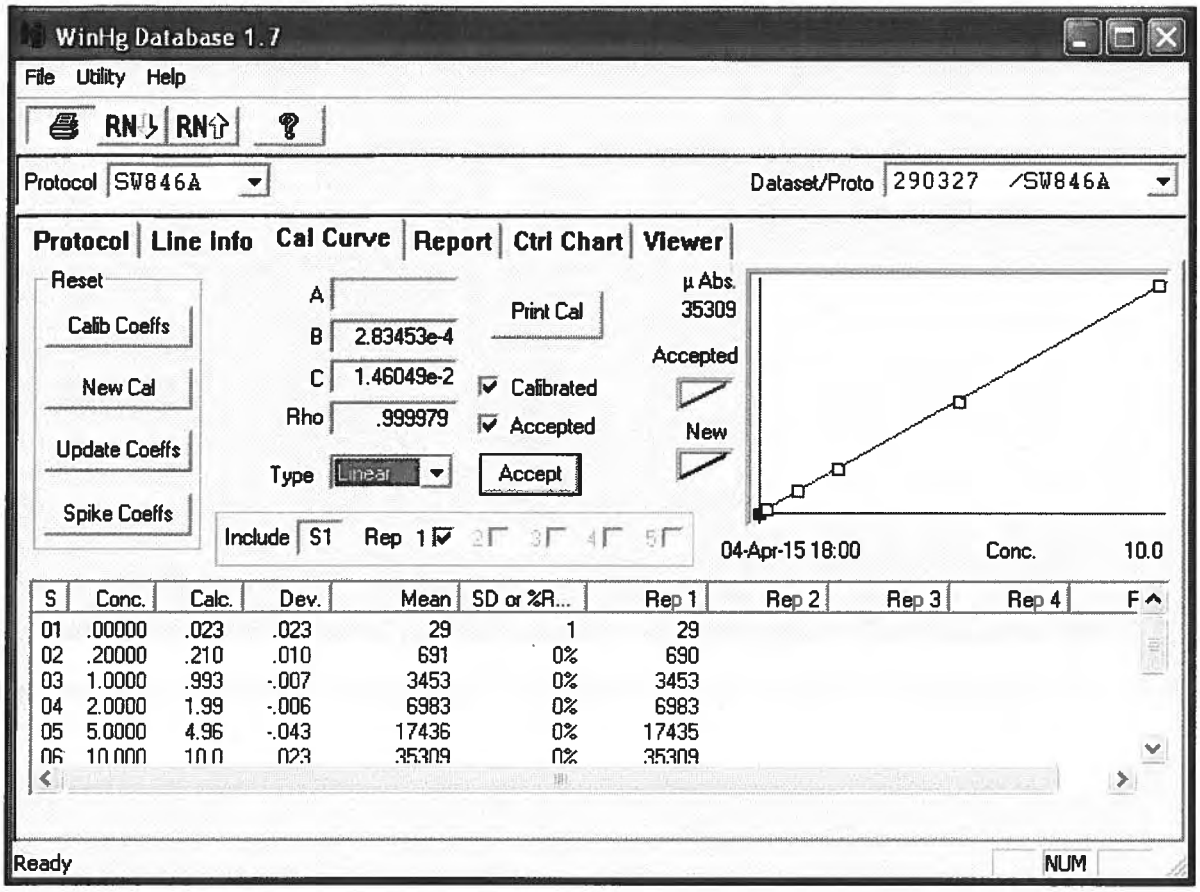
Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	10.78		0.41	U	10.7	101	80-120		6010C
Aluminum	10090		9610		426	NC	80-120		6010C
Arsenic	405.6		7.2		426	94	80-120		6010C
Barium	567.2		146		426	99	80-120		6010C
Beryllium	10.69		0.29	U	10.7	100	80-120		6010C
Calcium	16560		12500		4260	95	80-120		6010C
Cadmium	10.31		0.30	U	10.7	97	80-120		6010C
Cobalt	113.9		8.6	J	107	99	80-120		6010C
Chromium	78.00		35.8		42.6	99	80-120		6010C
Copper	188.5		136		53.3	98	80-120		6010C
Iron	23770		23600		213	NC	80-120		6010C
Potassium	5112		1180		4260	92	80-120		6010C
Magnesium	8480		4500		4260	93	80-120		6010C
Manganese	651.4		547		107	98	80-120		6010C
Sodium	4224		174	J	4260	95	80-120		6010C
Nickel	124.0		17.9		107	100	80-120		6010C
Lead	499.5		406		107	87	80-120		6010C
Antimony	94.83		3.3	J	107	86	80-120		6010C
Selenium	398.5		1.2	U	426	94	80-120		6010C
Thallium	437.9		2.1	U	426	103	80-120		6010C
Vanadium	136.9		32.3		107	98	80-120		6010C
Zinc	454.1		350		107	98	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN


WinHg Database 1.7
File Utility Help
RN RN
Protocol SW846A
Dataset/Proto 290327 /SW846A
Protocol Line Info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 2.83453e-4
C 1.46049e-2
Rho .999979
Type Linear
Print Cal
Calibrated
Accepted
Accept
µ Abs.
35309
Accepted
New
Include S1 Rep 1 2 3 4 5
04-Apr-15 18:00
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %R... Rep 1 Rep 2 Rep 3 Rep 4
01 .00000 .023 .023 29 1 29
02 .20000 .210 .010 691 0% 690
03 1.0000 .993 -.007 3453 0% 3453
04 2.0000 1.99 -.006 6983 0% 6983
05 5.0000 4.96 -.043 17436 0% 17435
06 10.000 10.0 .023 35309 0% 35309
Ready
NUM

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 17:49:21 04 Apr 15 HG

Hg .000 ppb 29

=

*** Standard: 2 Rep: 1 Seq: 2 17:51:13 04 Apr 15 HG

Hg .200 ppb 690

=

*** Standard: 3 Rep: 1 Seq: 3 17:53:13 04 Apr 15 HG

Hg 1.00 ppb 3453

=

*** Standard: 4 Rep: 1 Seq: 4 17:55:05 04 Apr 15 HG

Hg 2.00 ppb 6983

=

*** Standard: 5 Rep: 1 Seq: 5 17:57:05 04 Apr 15 HG

Hg 5.00 ppb 17435

=

*** Standard: 6 Rep: 1 Seq: 6 17:59:55 04 Apr 15 HG

Hg 10.0 ppb 35309

=

*** Check Standard: 3 Ck3AICV Seq: 7 18:02:03 04 Apr 15 HG
Line Flag Intensities
Hg 17243

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 8 18:03:50 04 Apr 15 HG
Line Flag Intensities
Hg -87

=

*** Sample ID: Seq: 9 18:05:57 04 Apr 15 HG
MB 460-290327/1-A
Hg .037 ppb 80

=

==========

*** Sample ID: LCSSRM 460 Seq: 10 18:07:49 04 Apr 15 HG
-290327/2-A@50
Hg 3.00 ppb 10531

=

==========

*** Sample ID: Seq: 11 18:09:41 04 Apr 15 HG
460-92568-G-4-F MS
Hg 125. ppb 440227

=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 12 18:14:36 04 Apr 15 HG
460-92568-G-4-E
Hg 125. ppb 440877
=

*** Sample ID: Seq: 13 18:16:28 04 Apr 15 HG
460-92568-A-4-E DU
Hg 118. ppb 417831
=

*** Sample ID: Seq: 14 18:18:21 04 Apr 15 HG
460-92568-G-4-F MS
Hg 120. ppb 423302
=

*** Sample ID: Seq: 15 18:20:54 04 Apr 15 HG
sd460-92568-G-4-E@5
Hg 26.2 ppb 92380
=

*** Sample ID: Seq: 16 18:23:04 04 Apr 15 HG
rn.chk
Hg -.040 ppb -193
=

*** Sample ID: Seq: 17 18:26:36 04 Apr 15 HG
460-92431-A-7-H
Hg 3.31 ppb 11622
=

*** Sample ID: Seq: 18 18:29:04 04 Apr 15 HG
460-92545-A-1-G
Hg .047 ppb 113
=

*** Check Standard: 2 Ck2ACCV Seq: 19 18:30:51 04 Apr 15 HG
Line Flag Intensities
Hg 17299
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 20 18:32:40 04 Apr 15 HG
Line Flag Intensities
Hg -35
=

*** Sample ID: Seq: 21 18:34:28 04 Apr 15 HG
460-92568-G-1-A
Hg 8.40 ppb 29583
=

*** Sample ID: Seq: 22 18:36:15 04 Apr 15 HG
460-92568-G-2-A
Hg .081 ppb 235
=

*** Sample ID: Seq: 23 18:38:37 04 Apr 15 HG
460-92568-G-3-A
Hg .059 ppb 157
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 24 18:40:49 04 Apr 15 HG
460-92568-G-5-B
Hg .168 ppb 541
=

*** Sample ID: Seq: 25 18:42:41 04 Apr 15 HG
460-92568-G-6-B
Hg .095 ppb 282
=

*** Sample ID: Seq: 26 18:44:34 04 Apr 15 HG
460-92585-E-1-A
Hg .048 ppb 117
=

*** Sample ID: Seq: 27 18:46:31 04 Apr 15 HG
460-92631-G-1-A
Hg .105 ppb 319
=

*** Sample ID: Seq: 28 18:48:20 04 Apr 15 HG
460-92631-I-2-B
Hg .148 ppb 469
=

*** Check Standard: 2 Ck2ACCV Seq: 29 18:50:40 04 Apr 15 HG
Line Flag Intensities
Hg 17436
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 30 18:52:28 04 Apr 15 HG
Line Flag Intensities
Hg -28
=

*** Sample ID: Seq: 31 18:54:15 04 Apr 15 HG
460-92494-E-1-D
Hg 8.95 ppb 31510
=

*** Sample ID: Seq: 32 18:56:03 04 Apr 15 HG
460-92495-E-1-B
Hg .287 ppb 961
=

*** Sample ID: Seq: 33 18:58:05 04 Apr 15 HG
460-92495-E-2-B
Hg .251 ppb 835
=

*** Sample ID: Seq: 34 19:00:23 04 Apr 15 HG
460-92495-E-3-B
Hg .290 ppb 972
=

*** Sample ID: Seq: 35 19:02:32 04 Apr 15 HG
460-92641-E-1-C
Hg .207 ppb 679
=

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 36 19:04:23 04 Apr 15 HG
460-92691-A-2-A
Hg .956 ppb 3320
=

*** Sample ID: Seq: 37 19:06:11 04 Apr 15 HG
460-92691-A-3-A
Hg .178 ppb 577
=

*** Sample ID: Seq: 38 19:08:22 04 Apr 15 HG
460-92691-A-4-A
Hg .272 ppb 909
=

*** Sample ID: Seq: 39 19:10:29 04 Apr 15 HG
460-92691-A-5-A
Hg .126 ppb 393
=

*** Check Standard: 2 Ck2ACCV Seq: 40 19:12:16 04 Apr 15 HG
Line Flag Intensities
Hg 17373
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 41 19:14:50 04 Apr 15 HG
Line Flag Intensities
Hg 11
=

*** Sample ID: Seq: 42 19:16:48 04 Apr 15 HG
MB 460-290337/1-A
Hg .034 ppb 68
=

==========

*** Sample ID: LCSSRM 460 Seq: 43 19:18:36 04 Apr 15 HG
-290337/2-A@50
Hg 3.00 ppb 10521
=

==========

*** Sample ID: Seq: 44 19:21:43 04 Apr 15 HG
460-92691-A-1-A
Hg .221 ppb 729
=

*** Sample ID: Seq: 45 19:23:33 04 Apr 15 HG
460-92691-A-1-B DU
Hg .236 ppb 781
=

*** Sample ID: Seq: 46 19:26:21 04 Apr 15 HG
460-92691-A-1-C MS
Hg 1.18 ppb 4119
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 47 19:28:11 04 Apr 15 HG
sd 460-92691-A-1-A@5
Hg .051 ppb 129
=

*** Sample ID: Seq: 48 19:30:10 04 Apr 15 HG
460-92691-A-6-A
Hg .314 ppb 1057
=

*** Sample ID: Seq: 49 19:31:58 04 Apr 15 HG
460-92691-A-7-A
Hg .911 ppb 3162
=

*** Sample ID: Seq: 50 19:33:48 04 Apr 15 HG
460-92691-A-8-A
Hg 1.93 ppb 6741
=

*** Check Standard: 2 Ck2ACCV Seq: 51 19:35:36 04 Apr 15 HG
Line Flag Intensities
Hg 17374
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 52 19:37:24 04 Apr 15 HG
Line Flag Intensities
Hg -39
=

*** Sample ID: Seq: 53 19:39:32 04 Apr 15 HG
460-92691-A-9-A
Hg .226 ppb 746
=

*** Sample ID: Seq: 54 19:41:21 04 Apr 15 HG
460-92691-A-10-A
Hg 1.97 ppb 6891
=

*** Sample ID: Seq: 55 19:43:15 04 Apr 15 HG
460-92691-A-11-A
Hg .100 ppb 302
=

*** Sample ID: Seq: 56 19:45:04 04 Apr 15 HG
460-92691-A-12-A
Hg .438 ppb 1494
=

*** Sample ID: Seq: 57 19:47:15 04 Apr 15 HG
460-92568-G-4-E@25
Hg 5.43 ppb 19118
=

*** Sample ID: Seq: 58 19:49:23 04 Apr 15 HG
460-92568-A-4-EDU@25
Hg 5.13 ppb 18064
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 59 19:51:12 04 Apr 15 HG
460-92568-G-4-FMS@25
Hg 5.16 ppb 18170
=

*** Sample ID: Seq: 60 19:53:07 04 Apr 15 HG
460-92568-G-4-E@125
Hg 1.05 ppb 3666
=

*** Check Standard: 2 Ck2ACCV Seq: 61 09:10:19 05 Apr 15 HG
Line Flag Intensities
Hg 17184
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 62 09:13:31 05 Apr 15 HG
Line Flag Intensities
Hg 25
=

*** Sample ID: Seq: 63 09:15:22 05 Apr 15 HG
460-92691-A-9-A
Hg .221 ppb 728
=

*** Sample ID: Seq: 64 09:17:41 05 Apr 15 HG
460-92691-A-10-A
Hg 1.87 ppb 6544
=

*** Sample ID: Seq: 65 09:19:43 05 Apr 15 HG
460-92691-A-11-A
Hg .121 ppb 377
=

*** Sample ID: Seq: 66 09:23:13 05 Apr 15 HG
460-92691-A-12-A
Hg .463 ppb 1582
=

*** Sample ID: Seq: 67 09:26:21 05 Apr 15 HG
460-92568-G-4-E@25
Hg 5.16 ppb 18146
=

*** Sample ID: Seq: 68 09:28:19 05 Apr 15 HG
460-92568-A-4-EDU@25
Hg 4.94 ppb 17359
=

*** Sample ID: Seq: 69 09:31:51 05 Apr 15 HG
460-92568-G-4-FMS@25
Hg 4.92 ppb 17299
=

*** Sample ID: Seq: 70 09:34:17 05 Apr 15 HG
460-92568-G-4-E@125
Hg 1.02 ppb 3563
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: sample Seq: 71 09:42:19 05 Apr 15 HG

Line	Conc.	Units	SD/RSD
Hg	.010	ppb	-17

=

*** Check Standard: 2 Ck2ACCV Seq: 72 09:44:48 05 Apr 15 HG

Line	Flag	Intensities
Hg		17060

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 73 09:47:36 05 Apr 15 HG

Line	Flag	Intensities
Hg		31

=

Line Conc. Units SD/RSD 1 2 3 4 5

*** Standard: 1 Rep: 1 Seq: 1 17:49:21 04 Apr 15 HG

Hg .000 ppb 29

=

*** Standard: 2 Rep: 1 Seq: 2 17:51:13 04 Apr 15 HG

Hg .200 ppb 690

=

*** Standard: 3 Rep: 1 Seq: 3 17:53:13 04 Apr 15 HG

Hg 1.00 ppb 3453

=

*** Standard: 4 Rep: 1 Seq: 4 17:55:05 04 Apr 15 HG

Hg 2.00 ppb 6983

=

*** Standard: 5 Rep: 1 Seq: 5 17:57:05 04 Apr 15 HG

Hg 5.00 ppb 17435

=

*** Standard: 6 Rep: 1 Seq: 6 17:59:55 04 Apr 15 HG

Hg 10.0 ppb 35309

=

*** Check Standard: 3 Ck3AICV Seq: 7 18:02:03 04 Apr 15 HG

Line Flag %Rcv. Found True Units SD/RSD

Hg 98.0 4.90 5.00 ppb .000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 8 18:03:50 04 Apr 15 HG

Line Flag Found Range(+/-) Units SD/RSD

Hg -.010 .200 ppb .000

=

*** Sample ID: Seq: 9 18:05:57 04 Apr 15 HG

MB 460-290327/1-A

Hg .037 ppb .000 .037

=

==========

*** Sample ID: LCSSRM 460 Seq: 10 18:07:49 04 Apr 15 HG

-290327/2-A@50

Hg 3.00 ppb .000 3.00

=

==========

*** Sample ID: Seq: 11 18:09:41 04 Apr 15 HG

460-92568-G-4-F MS

Hg 125. ppb .000 125.

=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 12 18:14:36 04 Apr 15 HG
460-92568-G-4-E
Hg 125. ppb .000 125.
=

*** Sample ID: Seq: 13 18:16:28 04 Apr 15 HG
460-92568-A-4-E DU
Hg 118. ppb .000 118.
=

*** Sample ID: Seq: 14 18:18:21 04 Apr 15 HG
460-92568-G-4-F MS
Hg 120. ppb .000 120.
=

*** Sample ID: Seq: 15 18:20:54 04 Apr 15 HG
sd460-92568-G-4-E@5
Hg 26.2 ppb .000 26.2
=

*** Sample ID: Seq: 16 18:23:04 04 Apr 15 HG
rn.chk
Hg -.040 ppb .000 -.040
=

*** Sample ID: Seq: 17 18:26:36 04 Apr 15 HG
460-92431-A-7-H
Hg 3.31 ppb .000 3.31
=

*** Sample ID: Seq: 18 18:29:04 04 Apr 15 HG
460-92545-A-1-G
Hg .047 ppb .000 .047
=

*** Check Standard: 2 Ck2ACCV Seq: 19 18:30:51 04 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.4	4.92	5.00	ppb	.000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 20 18:32:40 04 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.005	.200	ppb	.000

=

*** Sample ID: Seq: 21 18:34:28 04 Apr 15 HG
460-92568-G-1-A
Hg 8.40 ppb .000 8.40
=

*** Sample ID: Seq: 22 18:36:15 04 Apr 15 HG
460-92568-G-2-A
Hg .081 ppb .000 .081
=

*** Sample ID: Seq: 23 18:38:37 04 Apr 15 HG
460-92568-G-3-A
Hg .059 ppb .000 .059
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 24 18:40:49 04 Apr 15 HG
460-92568-G-5-B
Hg .168 ppb .000 .168
=

*** Sample ID: Seq: 25 18:42:41 04 Apr 15 HG
460-92568-G-6-B
Hg .095 ppb .000 .095
=

*** Sample ID: Seq: 26 18:44:34 04 Apr 15 HG
460-92585-E-1-A
Hg .048 ppb .000 .048
=

*** Sample ID: Seq: 27 18:46:31 04 Apr 15 HG
460-92631-G-1-A
Hg .105 ppb .000 .105
=

*** Sample ID: Seq: 28 18:48:20 04 Apr 15 HG
460-92631-I-2-B
Hg .148 ppb .000 .148
=

*** Check Standard: 2 Ck2ACCV Seq: 29 18:50:40 04 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.1	4.96	5.00	ppb	.000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 30 18:52:28 04 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.007	.200	ppb	.000

=

*** Sample ID: Seq: 31 18:54:15 04 Apr 15 HG
460-92494-E-1-D
Hg 8.95 ppb .000 8.95
=

*** Sample ID: Seq: 32 18:56:03 04 Apr 15 HG
460-92495-E-1-B
Hg .287 ppb .000 .287
=

*** Sample ID: Seq: 33 18:58:05 04 Apr 15 HG
460-92495-E-2-B
Hg .251 ppb .000 .251
=

*** Sample ID: Seq: 34 19:00:23 04 Apr 15 HG
460-92495-E-3-B
Hg .290 ppb .000 .290
=

*** Sample ID: Seq: 35 19:02:32 04 Apr 15 HG
460-92641-E-1-C
Hg .207 ppb .000 .207
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 36 19:04:23 04 Apr 15 HG
460-92691-A-2-A
Hg .956 ppb .000 .956
=

*** Sample ID: Seq: 37 19:06:11 04 Apr 15 HG
460-92691-A-3-A
Hg .178 ppb .000 .178
=

*** Sample ID: Seq: 38 19:08:22 04 Apr 15 HG
460-92691-A-4-A
Hg .272 ppb .000 .272
=

*** Sample ID: Seq: 39 19:10:29 04 Apr 15 HG
460-92691-A-5-A
Hg .126 ppb .000 .126
=

*** Check Standard: 2 Ck2ACCV Seq: 40 19:12:16 04 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	4.94	5.00	ppb	.000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 41 19:14:50 04 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.018	.200	ppb	.000

=

*** Sample ID: Seq: 42 19:16:48 04 Apr 15 HG
MB 460-290337/1-A
Hg .034 ppb .000 .034
=

==========

*** Sample ID: LCSSRM 460 Seq: 43 19:18:36 04 Apr 15 HG
-290337/2-A@50
Hg 3.00 ppb .000 3.00
=

==========

*** Sample ID: Seq: 44 19:21:43 04 Apr 15 HG
460-92691-A-1-A
Hg .221 ppb .000 .221
=

*** Sample ID: Seq: 45 19:23:33 04 Apr 15 HG
460-92691-A-1-B DU
Hg .236 ppb .000 .236
=

*** Sample ID: Seq: 46 19:26:21 04 Apr 15 HG
460-92691-A-1-C MS
Hg 1.18 ppb .000 1.18
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 47 19:28:11 04 Apr 15 HG
sd 460-92691-A-1-A@5
Hg .051 ppb .000 .051
=

*** Sample ID: Seq: 48 19:30:10 04 Apr 15 HG
460-92691-A-6-A
Hg .314 ppb .000 .314
=

*** Sample ID: Seq: 49 19:31:58 04 Apr 15 HG
460-92691-A-7-A
Hg .911 ppb .000 .911
=

*** Sample ID: Seq: 50 19:33:48 04 Apr 15 HG
460-92691-A-8-A
Hg 1.93 ppb .000 1.93
=

*** Check Standard: 2 Ck2ACCV Seq: 51 19:35:36 04 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	4.94	5.00	ppb	.000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 52 19:37:24 04 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.004	.200	ppb	.000

=

*** Sample ID: Seq: 53 19:39:32 04 Apr 15 HG
460-92691-A-9-A
Hg .226 ppb .000 .226
=

*** Sample ID: Seq: 54 19:41:21 04 Apr 15 HG
460-92691-A-10-A
Hg 1.97 ppb .000 1.97
=

*** Sample ID: Seq: 55 19:43:15 04 Apr 15 HG
460-92691-A-11-A
Hg .100 ppb .000 .100
=

*** Sample ID: Seq: 56 19:45:04 04 Apr 15 HG
460-92691-A-12-A
Hg .438 ppb .000 .438
=

*** Sample ID: Seq: 57 19:47:15 04 Apr 15 HG
460-92568-G-4-E@25
Hg 5.43 ppb .000 5.43
=

*** Sample ID: Seq: 58 19:49:23 04 Apr 15 HG
460-92568-A-4-EDU@25
Hg 5.13 ppb .000 5.13
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 59 19:51:12 04 Apr 15 HG
460-92568-G-4-FMS@25
Hg 5.16 ppb .000 5.16
=

*** Sample ID: Seq: 60 19:53:07 04 Apr 15 HG
460-92568-G-4-E@125
Hg 1.05 ppb .000 1.05
=

*** Check Standard: 2 Ck2ACCV Seq: 61 09:10:19 05 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.7	4.89	5.00	ppb	.000

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 62 09:13:31 05 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.022	.200	ppb	.000

=

*** Sample ID: Seq: 63 09:15:22 05 Apr 15 HG
460-92691-A-9-A
Hg .221 ppb .000 .221
=

*** Sample ID: Seq: 64 09:17:41 05 Apr 15 HG
460-92691-A-10-A
Hg 1.87 ppb .000 1.87
=

*** Sample ID: Seq: 65 09:19:43 05 Apr 15 HG
460-92691-A-11-A
Hg .121 ppb .000 .121
=

*** Sample ID: Seq: 66 09:23:13 05 Apr 15 HG
460-92691-A-12-A
Hg .463 ppb .000 .463
=

*** Sample ID: Seq: 67 09:26:21 05 Apr 15 HG
460-92568-G-4-E@25
Hg 5.16 ppb .000 5.16
=

*** Sample ID: Seq: 68 09:28:19 05 Apr 15 HG
460-92568-A-4-EDU@25
Hg 4.94 ppb .000 4.94
=

*** Sample ID: Seq: 69 09:31:51 05 Apr 15 HG
460-92568-G-4-FMS@25
Hg 4.92 ppb .000 4.92
=

*** Sample ID: Seq: 70 09:34:17 05 Apr 15 HG
460-92568-G-4-E@125
Hg 1.02 ppb .000 1.02
=

Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: sample Seq: 71 09:42:19 05 Apr 15 HG

Hg	.010	ppb	.000	.010					=

*** Check Standard: 2 Ck2ACCV Seq: 72 09:44:48 05 Apr 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		97.0	4.85	5.00	ppb	.000	=

*** Check Standard: 1 Ck1ICB/CCB Seq: 73 09:47:36 05 Apr 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		.023	.200	ppb	.000	=

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Pittsburgh, PA
60137362-400
June 2015

June 19, 2015

Data Usability Summary Report

National Grid/Equity Former MGP Site
Soil Sampling Event
April-May 2015
Final

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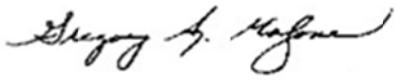

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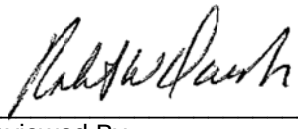

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Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Overview

A data assessment was performed by Gregory A. Malzone of AECOM Pittsburgh on two data packages from TestAmerica Laboratories, Inc., 777 New Durham Road, Edison, NJ, 08817 for the analysis of soil samples collected April 29-May 1, 2015 at the Equity former MGP site.

The following analytical methods were requested on the chain-of-custody (CoC) records.

- Volatile Organic Compounds by USEPA SW-846 Method 8260C
- Semivolatile Organic Compounds by USEPA SW-846 Method 8270D
- Gasoline Range Organics (GRO) by USEPA SW-846 Method 8015D
- Diesel Range Organics (DRO) by USEPA SW-846 Method 8015D
- Total TAL Metals by USEPA SW-846 Methods 6010C and 7471B
- Percent Solids for Dry Weight Corrections by Method SM2540 B mod.

The data were evaluated for conformance to method specifications and qualifiers were applied using the USEPA Region II SOPs and the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010, with additional reference to *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, EPA-540-R-04-004, October 2004, as they applied to the analytical methods employed. Field duplicate RPD review and applicable control limits were taken from the USEPA *Region I, New England Data Validation Functional Guidelines for Evaluating Environmental Analyses*, December 1996.

The samples were processed and the results were reported under two sample delivery groups (SDGs) 460-94062-1 and 460-94148-1. Table 1 provides a sample submittal list with the field IDs cross-referenced with the TestAmerica-Edison IDs.

Table 1 - Sample Submittals - National Grid / Equity Soil Samples

Field ID	Laboratory ID	Matrix	Date/Time Sampled
SB-45 (10-11)	460-94062-1	Soil	04/29/2015 15:09
SB-45 (18-20)	460-94062-2	Soil	04/29/2015 15:14
SB-45 (50-55)	460-94062-3	Soil	04/29/2015 17:28
SB-45 (45-48)	460-94062-4	Soil	04/29/2015 17:09
SB-47 (10-14)	460-94148-1	Soil	04/30/2015 13:28
SB-47 (17-19)	460-94148-2	Soil	04/30/2015 13:46
SB-47 (45-50)	460-94148-3	Soil	04/30/2015 16:51
DUP-01	460-94148-4	Soil (QC)	04/30/2015 00:00

Table 1 (Continued) - Sample Submittals - National Grid / Equity Soil Samples

Field ID	Laboratory ID	Matrix	Date/Time Sampled
SB-46 (11-15)	460-94148-5	Soil	05/01/2015 11:42
SB-46 (11-15)MS	460-94148-5	Soil (QC)	05/01/2015 11:42
SB-46 (11-15)MSD	460-94148-5	Soil (QC)	05/01/2015 11:42
SB-46 (11-15)DUP	460-94148-5	Soil (QC)	05/01/2015 11:42
SB-46 (45-50)	460-94148-6	Soil	05/01/2015 15:15
SB-46 (40-43)	460-94148-7	Soil	05/01/2015 14:54

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, matrix spike/matrix spike duplicates (MS/MSD), surrogate recoveries, laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial calibrations, continuing calibration verification standard recoveries, contract required detection limit standard recoveries, laboratory control samples, ICP interference check sample recoveries, ICP serial dilution results, field and laboratory duplicates, laboratory blanks, and analyte quantitation.

Acetone contamination was evident and caused the negation of several positive results. One non-detect volatile result (1,4-dioxane) was rejected because of poor instrument sensitivity. One non-detect semivolatile result (2,4-dinitrophenol) was rejected because of matrix spike recoveries being less than 10%, indicating severe matrix effects. All other data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the compounds and analytes in the media tested (i.e., soil) with the qualifications described below. Completeness of 99.87% was achieved for this data set. This is within the goal of 90-100% and is acceptable.

A glossary of data qualifier definitions is included in Appendix A of this report. The data qualifier summaries are attached as Appendix B of this report.

Each noncompliance with specific data usability criteria that required data qualification is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

460-94062-1

Blank Contamination (pp.741-743, 747-749, 753-755, 759-761, 765-767): Acetone and methylene chloride were detected in several of the method preservation and laboratory method blanks at concentrations less than twice the reporting limits. The associated sample results were qualified using the criteria summarized in the table below.

For common lab contaminants (methylene chloride, acetone, 2-butanone):			
Blank type	**Blank result**	**Sample result**	**Action for samples**
Method, Storage, Trip, or Field	Detects	Not detected	No qualification
	≤ 2x RL	< 2x RL	Report sample RL value with a U if <RL. Report sample result with a U if >RL.
		≥ 2x the RL	No qualifications

RL: Reporting limit.

The acetone results for samples DUP-01 and SB-46 (45-50) were less than two times the blank level and were qualified "U," as undetected, because of laboratory contamination. All other acetone results were non-detect or greater than two times the reporting limit and did not require qualification. Methylene chloride was not detected in any of the field samples.

Internal Standard Area Counts (p. 249): The internal standard 1,4-dioxane-d8 recovery for sample SB-46 (40-43) was less than the lower method specification limit of 50%, at 45.9%. The 1,4-dioxane result for SB-46 (40-43) was non-detect and was qualified "R," as rejected, because of poor instrument sensitivity.

Calibrations (pp.683-686, 692-695, 701-704): The continuing calibration verification (CCV) percent drift and difference for acetone and vinyl chloride were greater than the upper method limit of 20% on 05/04/15 at 05:46 on instrument CVOAMS2. The acetone and vinyl chloride results for associated sample SB-45 (18-20) were non-detect and did not require qualification in response to the high instrument bias.

The CCV percent differences/drifts for acetone and methyl acetate were less than the lower method limit of -20% on 05/05/15 at 22:24 on instrument CVOAMS9. The positive and non-detect acetone and methyl acetate results for associated samples SB-47 (10-14), SB-47 (45-50), DUP-01, SB-46 (11-15), SB-46 (45-50) and SB-46 (40-43) were qualified "J/UJ," as estimates, because of low instrument bias.

The CCV percent differences/drifts for cyclohexane, 1,1,1-trichloroethane, carbon tetrachloride, methylcyclohexane and isopropylbenzene were greater than the upper method limit of 20% on 05/05/15 at 22:24 on instrument CVOAMS9. The positive isopropylbenzene result for associated sample SB-46 (40-43) was qualified "J+," as an estimated concentration (LCS recovery also high), because of high instrument bias. All other cyclohexane, 1,1,1-trichloroethane, carbon tetrachloride, methylcyclohexane and isopropylbenzene results for associated samples SB-47 (10-14), SB-47 (45-50), DUP-01, SB-46 (11-15), SB-46 (45-50) and SB-46 (40-43) were non-detect and did not require qualification in response to the high instrument bias.

The CCV percent drift and difference for acetone and 2-butanone were greater than the upper method limit of 20% on 05/07/15 at 06:33 on instrument CVOAMS9. The acetone result for associated sample SB-47 (17-19) was qualified "J," as an estimated concentration because of high instrument bias. The 2-butanone result was non-detect and did not require qualification in response to the high instrument bias.

Laboratory Control Sample Recoveries and RPDs (pp. 263-264, 269-270): The LCS 460-296621/3 recovery for isopropylbenzene was greater than the upper quality control limit. The positive

isopropylbenzene results for associated samples SB-46 (40-43) were qualified “J+,” because of high method bias. All other associated isopropylbenzene results were non-detect and did not require qualification.

The LCSD 460-296185/4 recovery for chlorobromomethane was less than the lower quality control limit, but greater than 10%. The chlorobromomethane results for associated samples SB-45 (10-11), SB-45 (50-55) and SB-45 (45-48) were non-detect and were qualified “UJ,” as estimates because of low method bias.

Matrix Spike Recoveries and RPDs (pp. 273-276): Several SB-46 (11-15) MS and/or MSD target compound recoveries were less than the lower advisory limits, but greater than 10%. The associated positive and non-detect results for sample SB-46 (11-15) were non-detect and were qualified “J/UJ,” as estimates, because of low bias due to matrix effects and/or sample heterogeneity. The RPDs between the MS and MSD recoveries for acetone and methylcyclohexane were greater than the maximum advisory limit. The positive acetone and methylcyclohexane results were qualified “J,” as estimated concentrations, because of imprecision due to matrix effects and/or sample heterogeneity. Nonconforming RPDs associated with spike recoveries that were within the advisory limits or greater than the upper advisory limit and associated with a non-detect result did not elicit validation action.

Reporting Limits (Form 1s): Sample SB-45 (18-20) required analysis at an initial 500-fold dilution to bring the high level target compound concentrations into the calibration range. The initial dilution elevated the method detection limits and reporting limits. The surrogate recoveries were within the quality control limits. No data qualifications were required.

2.0 Semivolatile Organic Compounds

460-94062-1

Calibrations (pp. 869, 1373): The continuing calibration verification (CCV) percent difference for caprolactam was less than the lower method limit of -20% on 05/06/15 at 06:10 on instrument CBNAMS5. The caprolactam results for associated samples SB-45 (10-11), SB-45 (18-20), SB-45 (50-55) and SB-45 (45-48) were non-detect and were qualified "UJ," as estimates, because of low instrument bias.

Laboratory Control Sample Recoveries (pp. 851-852, 864): The LCS 460-296230/2-A and LCS 460-296230/3-A recoveries for atrazine and 2,4-dinitrotoluene were greater than the upper quality control limits. The atrazine and 2,4-dinitrotoluene results for associated samples SB-47 (10-14), SB-47 (17-19), SB-47 (45-50), DUP-01, SB-46 (45-50) and SB-46 (40-43) were non-detect. No data qualifications were required in response to the high method bias.

Matrix Spike Recoveries and RPDs (pp. 853-854, 857-858): The SB-46 (11-15) MS/MSD recoveries for 2,4-dinitrophenol were less than 10%. The 2,4-dinitrophenol result for sample SB-46 (11-15) was non-detect and was qualified "R," as rejected, because of significant low bias due to matrix effects.

The SB-46 (11-15) MS and/or MSD recoveries for 1,2,4,5-tetrachlorobenzene, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2-nitrophenol and hexachlorocyclopentadiene recoveries were less than the lower advisory limits, but greater than 10%. The associated results for sample SB-46 (11-15) were non-detect and were qualified "UJ," as estimates, because of low bias due to matrix effects.

The RPD between the SB-46 (11-15) MS and MSD recoveries for 4,6-dinitro-2-methylphenol was greater than the maximum advisory limit. The 4,6-dinitro-2-methylphenol result for sample SB-46 (11-15) was non-detect and the spike recoveries were within the advisory limits. No data qualifications were required.

3.0 Petroleum Hydrocarbons

460-94062-1 Gasoline Range Organics

Dilutions/Surrogate Recoveries (p. 1500): Sample SB-45 (18-20) required analysis at an initial 1000-fold to bring the GRO concentration into the calibration range. The dilution was sufficiently high to dilute out the surrogates. The surrogates could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

460-94062-1 Diesel Range Organics

Matrix Spike Recoveries (pp. 1661, 1663): The SB-46 (11-15) MS/MSD recoveries for DRO were less than the lower advisory limit, and less than 20%. The positive DRO result for sample SB-46 (11-15) was qualified "J-," as an estimated concentration, biased low because of matrix interference and/or sample heterogeneity.

Dilutions/Surrogate Recoveries (p. 1658): Samples SB-45 (18-20) and SB-47 (10-14) required analysis at an initial 20-fold or greater dilution to bring the DRO concentration into the calibration range and/or to minimize matrix interference. The dilutions were sufficiently high to dilute out the surrogates. The surrogates could not be used to assess method accuracy. There were sufficient, acceptable quality control data to show that the analytical process was in control. No data qualifications were required.

4.0 Total Metals

460-94062-1

Blank Contamination (p.1898): Lead was detected in the continuing calibration blank 460-297724/102 analyzed on 05/11/15 at 00:01. The lead concentration for associated sample SB-45(18-20) was greater than ten times the blank level and did not require qualification.

Matrix Spike Recoveries (p. 1925): The spike added to SB-46 (11-15) MS for aluminum, iron, manganese and mercury was less than 25% of the original sample concentrations. The matrix spike recoveries and RPDs could not be calculated. The SB-46 (11-15) post-digestion spike recoveries for aluminum, iron and manganese were within the acceptance limits of 80-120%. No post-digestion spike was prepared and analyzed for mercury. No data qualifications were required.

The SB-46 (11-15) MS recovery for antimony was less than the lower advisory limit of 75%, at 53%. The SB-46 (11-15) post-digestion spike recovery for antimony was within the acceptance limits of 80-120%. All samples were affected. All antimony results were non-detect and were qualified “UJ,” as estimates, because of low bias attributable to matrix effects and/or poor method accuracy.

The SB-46 (11-15) MS recoveries for chromium, lead and zinc were greater than the upper advisory limit of 125%, but less than 200%. The SB-46 (11-15) post-digestion spike recoveries for chromium, lead and zinc were within the acceptance limits of 80-120%. All samples were affected. The positive chromium, lead and zinc results were qualified “J,” as estimated concentrations, because of high bias attributable to matrix effects and/or poor method accuracy.

5.0 Field Duplicate Precision

A field duplicate sample was collected for sample SB-47 (45-50). The calculated RPDs are listed in Table 2 below. Field duplicate results were evaluated using the following criteria.

Organics: The RPD must be ≤ 50% for soil/sediments for results greater than or equal to two times the reporting limit. If one of the results is non-detect or less than two times the reporting limit, and the duplicate is greater than two times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to two times the reporting limit.

Action applies only to the affected analyte in the organic duplicate sample pair.

Inorganics: The RPD must be ≤ 50% for soil/sediments for results greater than or equal to five times the reporting limit. For results less than five times the reporting limit, the difference between the parent and field duplicate results must be less than or equal to four times the reporting limit.

Action applies to the affected analyte in all inorganic samples of the same matrix prepared and analyzed by the same method.

Field sampling/laboratory precision and sample homogeneity were acceptable. No data qualifications were required.

Table 2 - Field Duplicate Precision - National Grid / Equity Soil Samples

Compound	SB47(45-50)	DUP-01	Units	RPD (%)	Quals
Acetone	15	10	µg/kg	40	
Benzene	0.39 J	0.50 J	µg/kg	25	
bis(2-Ethylhexyl)phthalate	70 J	430 U	µg/kg	NC	±4RL
Diesel Range Organics (C10-C44)	50	34	mg/kg	38	
Aluminum	12100	15300	mg/kg	23	
Arsenic	4.4	4.9	mg/kg	11	
Barium	98.8	114	mg/kg	14	
Beryllium	0.42 J	0.51	mg/kg	19	
Calcium	11600	12400	mg/kg	6.7	
Chromium	32.6	40.6	mg/kg	22	
Cobalt	11.3 J	14.0	mg/kg	21	
Copper	25.4	32.0	mg/kg	23	
Iron	25700	31800	mg/kg	21	
Lead	7.9	10.3	mg/kg	26	
Magnesium	10800	12900	mg/kg	18	
Manganese	492	607	mg/kg	21	
Nickel	29.7	37.6	mg/kg	23	

Table 2 (Continued) - Field Duplicate Precision - National Grid / Equity Soil Samples

Compound	SB47(45-50)	DUP-01	Units	RPD (%)	Quals
Potassium	4040	5190	mg/kg	25	
Sodium	1530	2020	mg/kg	28	
Vanadium	37.9	47.0	mg/kg	21	
Zinc	63.6	78.2	mg/kg	21	
Solids	78.4	77.4	%	1.3	

RPD: Relative percent difference
QUALs: Qualifications
µg/kg: micrograms per kilogram (ppb)
mg/kg: milligrams per kilogram (ppm)
%: Percent

6.0 Notes

Percent Solids (p. 5413): All soil sample results were reported on a dry weight basis. The percent solids result for sample SB-47 (10-14) was less than 50%, at 36.5%. This percent solids measurement is also close to the Region II SOP limit of 30%. Based on professional judgment, all SB-47 (10-14) positive and non-detect results were qualified "J/UJ," as estimates, because of the high dry weight correction.

Data Reporting: The calibration and instrument printout raw data for the 05/06/15 mercury analytical run were omitted from the original data package. This information was requested and was received on 06/22/15. The omitted pages are included in Appendix C.

Positive results less than the reporting limit, but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit.

Matrix spike and matrix spike duplicates, laboratory duplicates, and ICP serial dilutions that were performed on non-project samples were not evaluated because matrix similarity to project samples could not be assumed.

Tentatively identified compound (TIC) results that have been reviewed and approved by the laboratory analyst were qualified "NJ," as presumptively present at an estimated concentration. Non-target compounds with a general tentative identification or labeled as "unknown" were qualified "J," as an estimated concentration.

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but may be biased high.

J- The result is an estimated quantity, but may be biased low.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) Lab Sample ID: 460-94062-1

Matrix: Solid Lab File ID: O98077.D

Analysis Method: 8260C Date Collected: 04/29/2015 15:09

Sample wt/vol: 4.36(g) Date Analyzed: 05/04/2015 11:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.6 Level: (low/med) Low

Analysis Batch No.: 296185 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.54	U	1.4	0.54	
79-34-5	1,1,2,2-Tetrachloroethane	0.24	U	1.4	0.24	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	U	1.4	0.63	
79-00-5	1,1,2-Trichloroethane	0.40	U	1.4	0.40	
75-34-3	1,1-Dichloroethane	0.48	U	1.4	0.48	
75-35-4	1,1-Dichloroethene	0.58	U	1.4	0.58	
87-61-6	1,2,3-Trichlorobenzene	0.16	U	1.4	0.16	
120-82-1	1,2,4-Trichlorobenzene	0.46	U	1.4	0.46	
78-87-5	1,2-Dichloropropane	0.24	U	1.4	0.24	
541-73-1	1,3-Dichlorobenzene	0.17	U	1.4	0.17	
106-46-7	1,4-Dichlorobenzene	0.19	U	1.4	0.19	
123-91-1	1,4-Dioxane	9.1	U	29	9.1	
78-93-3	2-Butanone (MEK)	1.1	U	7.1	1.1	
591-78-6	2-Hexanone	1.3	U	7.1	1.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	7.1	3.2	
67-64-1	Acetone	17	~~B~~	7.1	1.5	
71-43-2	Benzene	0.47	J	1.4	0.29	
75-25-2	Bromoform	0.19	U	1.4	0.19	
74-83-9	Bromomethane	0.46	U	1.4	0.46	
75-15-0	Carbon disulfide	0.61	U	1.4	0.61	
56-23-5	Carbon tetrachloride	0.61	U	1.4	0.61	
108-90-7	Chlorobenzene	0.20	U	1.4	0.20	
74-97-5	Chlorobromomethane	0.24	~~U~~	1.4	0.24	LCS
124-48-1	Chlorodibromomethane	0.21	U	1.4	0.21	
75-00-3	Chloroethane	0.50	U	1.4	0.50	
67-66-3	Chloroform	0.30	U	1.4	0.30	
74-87-3	Chloromethane	0.54	U	1.4	0.54	
156-59-2	cis-1,2-Dichloroethene	0.31	U	1.4	0.31	
10061-01-5	cis-1,3-Dichloropropene	0.21	U	1.4	0.21	
110-82-7	Cyclohexane	0.66	U	1.4	0.66	
75-27-4	Dichlorobromomethane	0.54	U	1.4	0.54	
75-71-8	Dichlorodifluoromethane	0.46	U	1.4	0.46	
100-41-4	Ethylbenzene	0.26	U	1.4	0.26	
106-93-4	Ethylene Dibromide	0.17	U	1.4	0.17	
98-82-8	Isopropylbenzene	0.24	U	1.4	0.24	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: O98077.D

Analysis Method: 8260C | Date Collected: 04/29/2015 15:09

Sample wt/vol: 4.36(g) | Date Analyzed: 05/04/2015 11:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.6 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.3	U	7.1	1.3
1634-04-4	Methyl tert-butyl ether	0.24	U	1.4	0.24
108-87-2	Methylcyclohexane	0.71	U	1.4	0.71
75-09-2	Methylene Chloride	0.46	U	1.4	0.46
179601-23-1	m-Xylene & p-Xylene	0.41	J	1.4	0.16
95-47-6	o-Xylene	0.23	U	1.4	0.23
100-42-5	Styrene	0.21	U	1.4	0.21
127-18-4	Tetrachloroethene	0.40	U	1.4	0.40
108-88-3	Toluene	0.46	J	1.4	0.27
156-60-5	trans-1,2-Dichloroethene	0.56	U	1.4	0.56
10061-02-6	trans-1,3-Dichloropropene	0.14	U	1.4	0.14
79-01-6	Trichloroethene	0.37	U	1.4	0.37
75-69-4	Trichlorofluoromethane	0.48	U	1.4	0.48
75-01-4	Vinyl chloride	0.56	U	1.4	0.56
107-06-2	1,2-Dichloroethane	0.16	U	1.4	0.16
95-50-1	1,2-Dichlorobenzene	0.20	U	1.4	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	0.67	U	1.4	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: O98077.D

Analysis Method: 8260C | Date Collected: 04/29/2015 15:09

Sample wt/vol: 4.36(g) | Date Analyzed: 05/04/2015 11:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.6 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: B82211.D

Analysis Method: 8260C | Date Collected: 04/29/2015 15:14

Sample wt/vol: 2.83(g) | Date Analyzed: 05/04/2015 11:47

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 43.9 | Level: (low/med) Medium

Analysis Batch No.: 296177 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	690	U	3200	690
74-83-9	Bromomethane	570	U	3200	570
75-01-4	Vinyl chloride	630	U	3200	630
75-00-3	Chloroethane	1200	U	3200	1200
75-09-2	Methylene Chloride	660	U	3200	660
67-64-1	Acetone	3400	U	16000	3400
75-15-0	Carbon disulfide	690	U	3200	690
75-69-4	Trichlorofluoromethane	470	U	3200	470
75-35-4	1,1-Dichloroethene	1100	U	3200	1100
75-34-3	1,1-Dichloroethane	760	U	3200	760
156-60-5	trans-1,2-Dichloroethene	570	U	3200	570
156-59-2	cis-1,2-Dichloroethene	820	U	3200	820
67-66-3	Chloroform	690	U	3200	690
107-06-2	1,2-Dichloroethane	790	U	3200	790
78-93-3	2-Butanone (MEK)	6900	U	16000	6900
71-55-6	1,1,1-Trichloroethane	880	U	3200	880
56-23-5	Carbon tetrachloride	1000	U	3200	1000
75-27-4	Dichlorobromomethane	470	U	3200	470
78-87-5	1,2-Dichloropropane	570	U	3200	570
10061-01-5	cis-1,3-Dichloropropene	500	U	3200	500
79-01-6	Trichloroethene	690	U	3200	690
124-48-1	Chlorodibromomethane	690	U	3200	690
79-00-5	1,1,2-Trichloroethane	250	U	3200	250
71-43-2	Benzene	890	J	3200	600
10061-02-6	trans-1,3-Dichloropropene	600	U	3200	600
75-25-2	Bromoform	570	U	3200	570
108-10-1	4-Methyl-2-pentanone (MIBK)	2000	U	16000	2000
591-78-6	2-Hexanone	2300	U	16000	2300
127-18-4	Tetrachloroethene	1100	U	3200	1100
79-34-5	1,1,2,2-Tetrachloroethane	600	U	3200	600
108-88-3	Toluene	790	U	3200	790
108-90-7	Chlorobenzene	760	U	3200	760
100-41-4	Ethylbenzene	5300		3200	950
100-42-5	Styrene	540	U	3200	540
179601-23-1	m-Xylene & p-Xylene	110000		3200	880
95-47-6	o-Xylene	1700	J	3200	1000

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: B82211.D

Analysis Method: 8260C | Date Collected: 04/29/2015 15:14

Sample wt/vol: 2.83(g) | Date Analyzed: 05/04/2015 11:47

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 500

Soil Extract Vol.: 10(mL) | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 43.9 | Level: (low/med) Medium

Analysis Batch No.: 296177 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1100	U	3200	1100
1634-04-4	Methyl tert-butyl ether	410	U	3200	410
110-82-7	Cyclohexane	31000		3200	820
106-93-4	Ethylene Dibromide	600	U	3200	600
541-73-1	1,3-Dichlorobenzene	1000	U	3200	1000
106-46-7	1,4-Dichlorobenzene	1000	U	3200	1000
95-50-1	1,2-Dichlorobenzene	690	U	3200	690
75-71-8	Dichlorodifluoromethane	440	U	3200	440
120-82-1	1,2,4-Trichlorobenzene	850	U	3200	850
123-91-1	1,4-Dioxane	27000	U	79000	27000
87-61-6	1,2,3-Trichlorobenzene	1100	U	3200	1100
96-12-8	1,2-Dibromo-3-Chloropropane	720	U	3200	720
74-97-5	Chlorobromomethane	950	U	3200	950
98-82-8	Isopropylbenzene	6500		3200	1000
79-20-9	Methyl acetate	1800	U	16000	1800
108-87-2	Methylcyclohexane	510000		3200	690

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		75-135
2037-26-5	Toluene-d8 (Surr)	102		59-150
460-00-4	4-Bromofluorobenzene	86		72-133
1868-53-7	Dibromofluoromethane (Surr)	113		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) Lab Sample ID: 460-94062-2

Matrix: Solid Lab File ID: B82211.D

Analysis Method: 8260C Date Collected: 04/29/2015 15:14

Sample wt/vol: 2.83(g) Date Analyzed: 05/04/2015 11:47

Soil Aliquot Vol: 5 (mL) Dilution Factor: 500

Soil Extract Vol.: 10(mL) GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 43.9 Level: (low/med) Medium

Analysis Batch No.: 296177 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 2.098e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
592-27-8	Heptane, 2-methyl-	6.34	150000	J N
589-81-1	Heptane, 3-methyl-	6.55	160000	J N
638-04-0	Cyclohexane, 1,3-dimethyl-, cis-	6.80	150000	J N
99-82-1	1-Methyl-4-(1-methylethyl)-cyclohexane	9.90	420000	J N
20536-40-7	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-,	10.01	210000	J N
1678-82-6	Cyclohexane, 1-methyl-4-(1-methylethyl)-	10.08	650000	J N
496-11-7	Indane	10.84	83000	J N
91-20-3	Naphthalene	12.40	130000	J N
90-12-0	Naphthalene, 1-methyl-	13.60	69000	J N
80655-44-3	Decahydro-4,4,8,9,10-pentamethylnaphthal	14.40	76000	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: O98078.D

Analysis Method: 8260C | Date Collected: 04/29/2015 17:28

Sample wt/vol: 5.06(g) | Date Analyzed: 05/04/2015 11:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 26.6 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.51	U	1.3	0.51	
79-34-5	1,1,2,2-Tetrachloroethane	0.23	U	1.3	0.23	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	U	1.3	0.59	
79-00-5	1,1,2-Trichloroethane	0.38	U	1.3	0.38	
75-34-3	1,1-Dichloroethane	0.46	U	1.3	0.46	
75-35-4	1,1-Dichloroethene	0.55	U	1.3	0.55	
87-61-6	1,2,3-Trichlorobenzene	0.15	U	1.3	0.15	
120-82-1	1,2,4-Trichlorobenzene	0.43	U	1.3	0.43	
78-87-5	1,2-Dichloropropane	0.23	U	1.3	0.23	
541-73-1	1,3-Dichlorobenzene	0.16	U	1.3	0.16	
106-46-7	1,4-Dichlorobenzene	0.17	U	1.3	0.17	
123-91-1	1,4-Dioxane	8.6	U	27	8.6	
78-93-3	2-Butanone (MEK)	1.0	U	6.7	1.0	
591-78-6	2-Hexanone	1.3	U	6.7	1.3	
108-10-1	4-Methyl-2-pentanone (MIBK)	3.0	U	6.7	3.0	
67-64-1	Acetone	14	~~B~~	6.7	1.4	
71-43-2	Benzene	0.27	U	1.3	0.27	
75-25-2	Bromoform	0.17	U	1.3	0.17	
74-83-9	Bromomethane	0.43	U	1.3	0.43	
75-15-0	Carbon disulfide	0.58	U	1.3	0.58	
56-23-5	Carbon tetrachloride	0.58	U	1.3	0.58	
108-90-7	Chlorobenzene	0.19	U	1.3	0.19	
74-97-5	Chlorobromomethane	0.23	UJ	1.3	0.23	LCS.
124-48-1	Chlorodibromomethane	0.20	U	1.3	0.20	
75-00-3	Chloroethane	0.47	U	1.3	0.47	
67-66-3	Chloroform	0.28	U	1.3	0.28	
74-87-3	Chloromethane	0.51	U	1.3	0.51	
156-59-2	cis-1,2-Dichloroethene	0.30	U	1.3	0.30	
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.3	0.20	
110-82-7	Cyclohexane	0.62	U	1.3	0.62	
75-27-4	Dichlorobromomethane	0.51	U	1.3	0.51	
75-71-8	Dichlorodifluoromethane	0.43	U	1.3	0.43	
100-41-4	Ethylbenzene	0.24	U	1.3	0.24	
106-93-4	Ethylene Dibromide	0.16	U	1.3	0.16	
98-82-8	Isopropylbenzene	0.23	U	1.3	0.23	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: O98078.D

Analysis Method: 8260C | Date Collected: 04/29/2015 17:28

Sample wt/vol: 5.06(g) | Date Analyzed: 05/04/2015 11:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 26.6 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.2	U	6.7	1.2
1634-04-4	Methyl tert-butyl ether	0.23	U	1.3	0.23
108-87-2	Methylcyclohexane	0.67	U	1.3	0.67
75-09-2	Methylene Chloride	0.43	U	1.3	0.43
179601-23-1	m-Xylene & p-Xylene	0.15	U	1.3	0.15
95-47-6	o-Xylene	0.22	U	1.3	0.22
100-42-5	Styrene	0.20	U	1.3	0.20
127-18-4	Tetrachloroethene	0.38	U	1.3	0.38
108-88-3	Toluene	0.26	U	1.3	0.26
156-60-5	trans-1,2-Dichloroethene	0.52	U	1.3	0.52
10061-02-6	trans-1,3-Dichloropropene	0.13	U	1.3	0.13
79-01-6	Trichloroethene	0.35	U	1.3	0.35
75-69-4	Trichlorofluoromethane	0.46	U	1.3	0.46
75-01-4	Vinyl chloride	0.52	U	1.3	0.52
107-06-2	1,2-Dichloroethane	0.15	U	1.3	0.15
95-50-1	1,2-Dichlorobenzene	0.19	U	1.3	0.19
96-12-8	1,2-Dibromo-3-Chloropropane	0.63	U	1.3	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) Lab Sample ID: 460-94062-3

Matrix: Solid Lab File ID: O98078.D

Analysis Method: 8260C Date Collected: 04/29/2015 17:28

Sample wt/vol: 5.06(g) Date Analyzed: 05/04/2015 11:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 26.6 Level: (low/med) Low

Analysis Batch No.: 296185 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: O98079.D

Analysis Method: 8260C | Date Collected: 04/29/2015 17:09

Sample wt/vol: 5.24(g) | Date Analyzed: 05/04/2015 12:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.44	U	1.2	0.44	
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	1.2	0.20	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	U	1.2	0.51	
79-00-5	1,1,2-Trichloroethane	0.33	U	1.2	0.33	
75-34-3	1,1-Dichloroethane	0.40	U	1.2	0.40	
75-35-4	1,1-Dichloroethene	0.48	U	1.2	0.48	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.2	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.37	U	1.2	0.37	
78-87-5	1,2-Dichloropropane	0.20	U	1.2	0.20	
541-73-1	1,3-Dichlorobenzene	0.14	U	1.2	0.14	
106-46-7	1,4-Dichlorobenzene	0.15	U	1.2	0.15	
123-91-1	1,4-Dioxane	7.5	U	23	7.5	
78-93-3	2-Butanone (MEK)	0.90	U	5.8	0.90	
591-78-6	2-Hexanone	1.1	U	5.8	1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.6	U	5.8	2.6	
67-64-1	Acetone	14	B	5.8	1.2	
71-43-2	Benzene	12		1.2	0.23	
75-25-2	Bromoform	0.15	U	1.2	0.15	
74-83-9	Bromomethane	0.37	U	1.2	0.37	
75-15-0	Carbon disulfide	0.50	U	1.2	0.50	
56-23-5	Carbon tetrachloride	0.50	U	1.2	0.50	
108-90-7	Chlorobenzene	0.16	U	1.2	0.16	
74-97-5	Chlorobromomethane	0.20	UJ	1.2	0.20	Les
124-48-1	Chlorodibromomethane	0.18	U	1.2	0.18	
75-00-3	Chloroethane	0.41	U	1.2	0.41	
67-66-3	Chloroform	0.25	U	1.2	0.25	
74-87-3	Chloromethane	0.44	U	1.2	0.44	
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.2	0.26	
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.2	0.18	
110-82-7	Cyclohexane	0.54	U	1.2	0.54	
75-27-4	Dichlorobromomethane	0.44	U	1.2	0.44	
75-71-8	Dichlorodifluoromethane	0.37	U	1.2	0.37	
100-41-4	Ethylbenzene	1.8		1.2	0.21	
106-93-4	Ethylene Dibromide	0.14	U	1.2	0.14	
98-82-8	Isopropylbenzene	0.20	U	1.2	0.20	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: O98079.D

Analysis Method: 8260C | Date Collected: 04/29/2015 17:09

Sample wt/vol: 5.24(g) | Date Analyzed: 05/04/2015 12:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.1	U	5.8	1.1
1634-04-4	Methyl tert-butyl ether	0.20	U	1.2	0.20
108-87-2	Methylcyclohexane	1.0	J	1.2	0.58
75-09-2	Methylene Chloride	0.37	U	1.2	0.37
179601-23-1	m-Xylene & p-Xylene	0.77	J	1.2	0.13
95-47-6	o-Xylene	0.55	J	1.2	0.19
100-42-5	Styrene	0.18	U	1.2	0.18
127-18-4	Tetrachloroethene	0.33	U	1.2	0.33
108-88-3	Toluene	1.4		1.2	0.22
156-60-5	trans-1,2-Dichloroethene	0.46	U	1.2	0.46
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12
79-01-6	Trichloroethene	0.30	U	1.2	0.30
75-69-4	Trichlorofluoromethane	0.40	U	1.2	0.40
75-01-4	Vinyl chloride	0.46	U	1.2	0.46
107-06-2	1,2-Dichloroethane	0.13	U	1.2	0.13
95-50-1	1,2-Dichlorobenzene	0.16	U	1.2	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.55	U	1.2	0.55

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) Lab Sample ID: 460-94062-4

Matrix: Solid Lab File ID: O98079.D

Analysis Method: 8260C Date Collected: 04/29/2015 17:09

Sample wt/vol: 5.24(g) Date Analyzed: 05/04/2015 12:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.2 Level: (low/med) Low

Analysis Batch No.: 296185 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: K39490.D

Analysis Method: 8260C | Date Collected: 04/30/2015 13:28

Sample wt/vol: 3.65(g) | Date Analyzed: 05/06/2015 07:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 63.5 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

% solids < 50%

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.4	UJ	3.8	1.4	
79-34-5	1,1,2,2-Tetrachloroethane	0.64	UJ	3.8	0.64	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	UJ	3.8	1.7	
79-00-5	1,1,2-Trichloroethane	1.1	UJ	3.8	1.1	
75-34-3	1,1-Dichloroethane	1.3	UJ	3.8	1.3	
75-35-4	1,1-Dichloroethene	1.5	UJ	3.8	1.5	
87-61-6	1,2,3-Trichlorobenzene	0.41	UJ	3.8	0.41	
120-82-1	1,2,4-Trichlorobenzene	1.2	UJ	3.8	1.2	
78-87-5	1,2-Dichloropropane	0.64	UJ	3.8	0.64	
541-73-1	1,3-Dichlorobenzene	0.45	UJ	3.8	0.45	
106-46-7	1,4-Dichlorobenzene	0.49	UJ	3.8	0.49	
123-91-1	1,4-Dioxane	24	UJ	75	24	
78-93-3	2-Butanone (MEK)	55	J	19	2.9	
591-78-6	2-Hexanone	3.5	UJ	19	3.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	8.3	UJ	19	8.3	
67-64-1	Acetone	130	~~B~~ J	19	4.0	CCV
71-43-2	Benzene	4.4	J	3.8	0.75	
75-25-2	Bromoform	0.49	UJ	3.8	0.49	
74-83-9	Bromomethane	1.2	UJ	3.8	1.2	
75-15-0	Carbon disulfide	5.3	J	3.8	1.6	
56-23-5	Carbon tetrachloride	1.6	UJ	3.8	1.6	
108-90-7	Chlorobenzene	0.92	J	3.8	0.53	
74-97-5	Chlorobromomethane	0.64	UJ	3.8	0.64	
124-48-1	Chlorodibromomethane	0.56	UJ	3.8	0.56	
75-00-3	Chloroethane	1.3	UJ	3.8	1.3	
67-66-3	Chloroform	0.79	UJ	3.8	0.79	
74-87-3	Chloromethane	1.4	UJ	3.8	1.4	
156-59-2	cis-1,2-Dichloroethene	0.83	UJ	3.8	0.83	
10061-01-5	cis-1,3-Dichloropropene	0.56	UJ	3.8	0.56	
110-82-7	Cyclohexane	1.7	UJ	3.8	1.7	
75-27-4	Dichlorobromomethane	1.4	UJ	3.8	1.4	
75-71-8	Dichlorodifluoromethane	1.2	UJ	3.8	1.2	
100-41-4	Ethylbenzene	0.68	UJ	3.8	0.68	
106-93-4	Ethylene Dibromide	0.45	UJ	3.8	0.45	
98-82-8	Isopropylbenzene	0.64	UJ	3.8	0.64	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: K39490.D

Analysis Method: 8260C | Date Collected: 04/30/2015 13:28

Sample wt/vol: 3.65(g) | Date Analyzed: 05/06/2015 07:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 63.5 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	3.4	UJ	19	3.4
1634-04-4	Methyl tert-butyl ether	0.64	UJ	3.8	0.64
108-87-2	Methylcyclohexane	1.9	UJ	3.8	1.9
75-09-2	Methylene Chloride	1.2	UJ	3.8	1.2
179601-23-1	m-Xylene & p-Xylene	3.0	J	3.8	0.41
95-47-6	o-Xylene	1.8	J	3.8	0.60
100-42-5	Styrene	0.56	UJ	3.8	0.56
127-18-4	Tetrachloroethene	1.1	UJ	3.8	1.1
108-88-3	Toluene	3.5	J	3.8	0.71
156-60-5	trans-1,2-Dichloroethene	1.5	UJ	3.8	1.5
10061-02-6	trans-1,3-Dichloropropene	0.38	UJ	3.8	0.38
79-01-6	Trichloroethene	0.98	UJ	3.8	0.98
75-69-4	Trichlorofluoromethane	1.3	UJ	3.8	1.3
75-01-4	Vinyl chloride	1.5	UJ	3.8	1.5
107-06-2	1,2-Dichloroethane	0.41	UJ	3.8	0.41
95-50-1	1,2-Dichlorobenzene	0.53	UJ	3.8	0.53
96-12-8	1,2-Dibromo-3-Chloropropane	1.8	UJ	3.8	1.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
460-00-4	4-Bromofluorobenzene	108		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) Lab Sample ID: 460-94148-1

Matrix: Solid Lab File ID: K39490.D

Analysis Method: 8260C Date Collected: 04/30/2015 13:28

Sample wt/vol: 3.65(g) Date Analyzed: 05/06/2015 07:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 63.5 Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

Number TICs Found: 10 TIC Result Total: 10930

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	11.25	1000	J
	Unknown	11.65	1400	J
	Unknown	11.82	1200	J
	Unknown	11.89	830	J
	Unknown	12.00	1200	J
	Unknown	12.11	1100	J
	Unknown	12.23	750	J
	Unknown	12.43	1300	J
	Unknown	12.70	1300	J
	Unknown	12.79	850	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: K39524.D

Analysis Method: 8260C | Date Collected: 04/30/2015 13:46

Sample wt/vol: 3.64(g) | Date Analyzed: 05/07/2015 09:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 35.6 | Level: (low/med) Low

Analysis Batch No.: 296939 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.81	U	2.1	0.81
79-34-5	1,1,2,2-Tetrachloroethane	0.36	U	2.1	0.36
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.94	U	2.1	0.94
79-00-5	1,1,2-Trichloroethane	0.60	U	2.1	0.60
75-34-3	1,1-Dichloroethane	0.73	U	2.1	0.73
75-35-4	1,1-Dichloroethene	0.87	U	2.1	0.87
87-61-6	1,2,3-Trichlorobenzene	0.47	J	2.1	0.23
120-82-1	1,2,4-Trichlorobenzene	0.68	U	2.1	0.68
78-87-5	1,2-Dichloropropane	0.36	U	2.1	0.36
541-73-1	1,3-Dichlorobenzene	0.33	J	2.1	0.26
106-46-7	1,4-Dichlorobenzene	3.4		2.1	0.28
123-91-1	1,4-Dioxane	14	U	43	14
78-93-3	2-Butanone (MEK)	1.6	U	11	1.6
591-78-6	2-Hexanone	2.0	U	11	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	4.7	U	11	4.7
67-64-1	Acetone	23	~~B~~ J	11	2.3
71-43-2	Benzene	49		2.1	0.43
75-25-2	Bromoform	0.28	U	2.1	0.28
74-83-9	Bromomethane	0.68	U	2.1	0.68
75-15-0	Carbon disulfide	4.9		2.1	0.92
56-23-5	Carbon tetrachloride	0.92	U	2.1	0.92
108-90-7	Chlorobenzene	15		2.1	0.30
74-97-5	Chlorobromomethane	0.36	U	2.1	0.36
124-48-1	Chlorodibromomethane	0.32	U	2.1	0.32
75-00-3	Chloroethane	0.75	U	2.1	0.75
67-66-3	Chloroform	0.45	U	2.1	0.45
74-87-3	Chloromethane	0.81	U	2.1	0.81
156-59-2	cis-1,2-Dichloroethene	0.47	U	2.1	0.47
10061-01-5	cis-1,3-Dichloropropene	0.32	U	2.1	0.32
110-82-7	Cyclohexane	1.2	J	2.1	0.98
75-27-4	Dichlorobromomethane	0.81	U	2.1	0.81
75-71-8	Dichlorodifluoromethane	0.68	U	2.1	0.68
100-41-4	Ethylbenzene	3.0		2.1	0.38
106-93-4	Ethylene Dibromide	0.26	U	2.1	0.26
98-82-8	Isopropylbenzene	2.8		2.1	0.36

ccv

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: K39524.D

Analysis Method: 8260C | Date Collected: 04/30/2015 13:46

Sample wt/vol: 3.64(g) | Date Analyzed: 05/07/2015 09:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 35.6 | Level: (low/med) Low

Analysis Batch No.: 296939 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	1.9	UJ	11	1.9	cev
1634-04-4	Methyl tert-butyl ether	0.36	U	2.1	0.36	
108-87-2	Methylcyclohexane	1.1	U	2.1	1.1	
75-09-2	Methylene Chloride	0.68	U	2.1	0.68	
179601-23-1	m-Xylene & p-Xylene	0.51	J	2.1	0.23	
95-47-6	o-Xylene	0.62	J	2.1	0.34	
100-42-5	Styrene	0.32	U	2.1	0.32	
127-18-4	Tetrachloroethene	0.60	U	2.1	0.60	
108-88-3	Toluene	0.87	J	2.1	0.41	
156-60-5	trans-1,2-Dichloroethene	0.83	U	2.1	0.83	
10061-02-6	trans-1,3-Dichloropropene	0.21	U	2.1	0.21	
79-01-6	Trichloroethene	0.55	U	2.1	0.55	
75-69-4	Trichlorofluoromethane	0.73	U	2.1	0.73	
75-01-4	Vinyl chloride	0.83	U	2.1	0.83	
107-06-2	1,2-Dichloroethane	0.23	U	2.1	0.23	
95-50-1	1,2-Dichlorobenzene	2.3		2.1	0.30	
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	2.1	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
460-00-4	4-Bromofluorobenzene	91		70-130
1868-53-7	Dibromofluoromethane (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) Lab Sample ID: 460-94148-2

Matrix: Solid Lab File ID: K39524.D

Analysis Method: 8260C Date Collected: 04/30/2015 13:46

Sample wt/vol: 3.64(g) Date Analyzed: 05/07/2015 09:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 35.6 Level: (low/med) Low

Analysis Batch No.: 296939 Units: ug/Kg

Number TICs Found: 8 TIC Result Total: 348

CAS NO.	COMPOUND NAME	RT	RESULT	Q
496-11-7	Indane	11.22	12	J N
91-20-3	Naphthalene	12.47	130	J N
91-57-6	Naphthalene, 2-methyl-	13.31	54	J N
90-12-0	Naphthalene, 1-methyl-	13.47	53	J N
581-40-8	Naphthalene, 2,3-dimethyl-	14.73	13	J N
575-37-1	Naphthalene, 1,7-dimethyl-	14.78	12	J N
571-61-9	Naphthalene, 1,5-dimethyl-	14.97	13	J N
83-32-9	Acenaphthene	15.43	61	J N

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: K39486.D

Analysis Method: 8260C | Date Collected: 04/30/2015 16:51

Sample wt/vol: 5.37(g) | Date Analyzed: 05/06/2015 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 21.6 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.45	U	1.2	0.45	
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	1.2	0.20	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	U	1.2	0.52	
79-00-5	1,1,2-Trichloroethane	0.33	U	1.2	0.33	
75-34-3	1,1-Dichloroethane	0.40	U	1.2	0.40	
75-35-4	1,1-Dichloroethene	0.49	U	1.2	0.49	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.2	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.38	U	1.2	0.38	
78-87-5	1,2-Dichloropropane	0.20	U	1.2	0.20	
541-73-1	1,3-Dichlorobenzene	0.14	U	1.2	0.14	
106-46-7	1,4-Dichlorobenzene	0.15	U	1.2	0.15	
123-91-1	1,4-Dioxane	7.6	U	24	7.6	
78-93-3	2-Butanone (MEK)	0.91	U	5.9	0.91	
591-78-6	2-Hexanone	1.1	U	5.9	1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.6	U	5.9	2.6	
67-64-1	Acetone	15	~~B~~ J	5.9	1.3	ccv
71-43-2	Benzene	0.39	J	1.2	0.24	
75-25-2	Bromoform	0.15	U	1.2	0.15	
74-83-9	Bromomethane	0.38	U	1.2	0.38	
75-15-0	Carbon disulfide	0.51	U	1.2	0.51	
56-23-5	Carbon tetrachloride	0.51	U	1.2	0.51	
108-90-7	Chlorobenzene	0.17	U	1.2	0.17	
74-97-5	Chlorobromomethane	0.20	U	1.2	0.20	
124-48-1	Chlorodibromomethane	0.18	U	1.2	0.18	
75-00-3	Chloroethane	0.42	U	1.2	0.42	
67-66-3	Chloroform	0.25	U	1.2	0.25	
74-87-3	Chloromethane	0.45	U	1.2	0.45	
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.2	0.26	
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.2	0.18	
110-82-7	Cyclohexane	0.55	U	1.2	0.55	
75-27-4	Dichlorobromomethane	0.45	U	1.2	0.45	
75-71-8	Dichlorodifluoromethane	0.38	U	1.2	0.38	
100-41-4	Ethylbenzene	0.21	U	1.2	0.21	
106-93-4	Ethylene Dibromide	0.14	U	1.2	0.14	
98-82-8	Isopropylbenzene	0.20	U	1.2	0.20	

FORM I 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: K39486.D

Analysis Method: 8260C | Date Collected: 04/30/2015 16:51

Sample wt/vol: 5.37(g) | Date Analyzed: 05/06/2015 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 21.6 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	1.1	UJ	5.9	1.1	CCV
1634-04-4	Methyl tert-butyl ether	0.20	U	1.2	0.20	
108-87-2	Methylcyclohexane	0.59	U	1.2	0.59	
75-09-2	Methylene Chloride	0.38	U	1.2	0.38	
179601-23-1	m-Xylene & p-Xylene	0.13	U	1.2	0.13	
95-47-6	o-Xylene	0.19	U	1.2	0.19	
100-42-5	Styrene	0.18	U	1.2	0.18	
127-18-4	Tetrachloroethene	0.33	U	1.2	0.33	
108-88-3	Toluene	0.23	U	1.2	0.23	
156-60-5	trans-1,2-Dichloroethene	0.46	U	1.2	0.46	
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12	
79-01-6	Trichloroethene	0.31	U	1.2	0.31	
75-69-4	Trichlorofluoromethane	0.40	U	1.2	0.40	
75-01-4	Vinyl chloride	0.46	U	1.2	0.46	
107-06-2	1,2-Dichloroethane	0.13	U	1.2	0.13	
95-50-1	1,2-Dichlorobenzene	0.17	U	1.2	0.17	
96-12-8	1,2-Dibromo-3-Chloropropane	0.56	U	1.2	0.56	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
460-00-4	4-Bromofluorobenzene	105		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: K39486.D

Analysis Method: 8260C | Date Collected: 04/30/2015 16:51

Sample wt/vol: 5.37(g) | Date Analyzed: 05/06/2015 06:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 21.6 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: K39487.D

Analysis Method: 8260C | Date Collected: 04/30/2015 00:00

Sample wt/vol: 5.38(g) | Date Analyzed: 05/06/2015 06:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.6 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.46	U	1.2	0.46	
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	1.2	0.20	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	U	1.2	0.53	
79-00-5	1,1,2-Trichloroethane	0.34	U	1.2	0.34	
75-34-3	1,1-Dichloroethane	0.41	U	1.2	0.41	
75-35-4	1,1-Dichloroethene	0.49	U	1.2	0.49	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.2	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.38	U	1.2	0.38	
78-87-5	1,2-Dichloropropane	0.20	U	1.2	0.20	
541-73-1	1,3-Dichlorobenzene	0.14	U	1.2	0.14	
106-46-7	1,4-Dichlorobenzene	0.16	U	1.2	0.16	
123-91-1	1,4-Dioxane	7.7	U	24	7.7	
78-93-3	2-Butanone (MEK)	0.93	U	6.0	0.93	
591-78-6	2-Hexanone	1.1	U	6.0	1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	6.0	2.7	
67-64-1	Acetone	10	~~B~~ UJ	6.0	1.3	mb. ccv
71-43-2	Benzene	0.50	J	1.2	0.24	
75-25-2	Bromoform	0.16	U	1.2	0.16	
74-83-9	Bromomethane	0.38	U	1.2	0.38	
75-15-0	Carbon disulfide	0.52	U	1.2	0.52	
56-23-5	Carbon tetrachloride	0.52	U	1.2	0.52	
108-90-7	Chlorobenzene	0.17	U	1.2	0.17	
74-97-5	Chlorobromomethane	0.20	U	1.2	0.20	
124-48-1	Chlorodibromomethane	0.18	U	1.2	0.18	
75-00-3	Chloroethane	0.42	U	1.2	0.42	
67-66-3	Chloroform	0.25	U	1.2	0.25	
74-87-3	Chloromethane	0.46	U	1.2	0.46	
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.2	0.26	
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.2	0.18	
110-82-7	Cyclohexane	0.55	U	1.2	0.55	
75-27-4	Dichlorobromomethane	0.46	U	1.2	0.46	
75-71-8	Dichlorodifluoromethane	0.38	U	1.2	0.38	
100-41-4	Ethylbenzene	0.22	U	1.2	0.22	
106-93-4	Ethylene Dibromide	0.14	U	1.2	0.14	
98-82-8	Isopropylbenzene	0.20	U	1.2	0.20	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: K39487.D

Analysis Method: 8260C | Date Collected: 04/30/2015 00:00

Sample wt/vol: 5.38(g) | Date Analyzed: 05/06/2015 06:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.6 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
79-20-9	Methyl acetate	1.1	UJ	6.0	1.1	ccv
1634-04-4	Methyl tert-butyl ether	0.20	U	1.2	0.20	
108-87-2	Methylcyclohexane	0.60	U	1.2	0.60	
75-09-2	Methylene Chloride	0.38	U	1.2	0.38	
179601-23-1	m-Xylene & p-Xylene	0.13	U	1.2	0.13	
95-47-6	o-Xylene	0.19	U	1.2	0.19	
100-42-5	Styrene	0.18	U	1.2	0.18	
127-18-4	Tetrachloroethene	0.34	U	1.2	0.34	
108-88-3	Toluene	0.23	U	1.2	0.23	
156-60-5	trans-1,2-Dichloroethene	0.47	U	1.2	0.47	
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12	
79-01-6	Trichloroethene	0.31	U	1.2	0.31	
75-69-4	Trichlorofluoromethane	0.41	U	1.2	0.41	
75-01-4	Vinyl chloride	0.47	U	1.2	0.47	
107-06-2	1,2-Dichloroethane	0.13	U	1.2	0.13	
95-50-1	1,2-Dichlorobenzene	0.17	U	1.2	0.17	
96-12-8	1,2-Dibromo-3-Chloropropane	0.56	U	1.2	0.56	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
460-00-4	4-Bromofluorobenzene	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 Lab Sample ID: 460-94148-4

Matrix: Solid Lab File ID: K39487.D

Analysis Method: 8260C Date Collected: 04/30/2015 00:00

Sample wt/vol: 5.38(g) Date Analyzed: 05/06/2015 06:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.6 Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: K39491.D

Analysis Method: 8260C | Date Collected: 05/01/2015 11:42

Sample wt/vol: 4.44(g) | Date Analyzed: 05/06/2015 08:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.3 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.55	UJF2 F1	1.4	0.55
79-34-5	1,1,2,2-Tetrachloroethane	0.25	UJF1	1.4	0.25
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	UJF2 F1	1.4	0.64
79-00-5	1,1,2-Trichloroethane	0.41	UJF1	1.4	0.41
75-34-3	1,1-Dichloroethane	0.49	UJF2 F1	1.4	0.49
75-35-4	1,1-Dichloroethene	0.59	UJF2 F1	1.4	0.59
87-61-6	1,2,3-Trichlorobenzene	0.16	UJF1	1.4	0.16
120-82-1	1,2,4-Trichlorobenzene	0.46	UJF1	1.4	0.46
78-87-5	1,2-Dichloropropane	0.25	UJF1	1.4	0.25
541-73-1	1,3-Dichlorobenzene	0.17	UJF2 F1	1.4	0.17
106-46-7	1,4-Dichlorobenzene	0.19	UJF2 F1	1.4	0.19
123-91-1	1,4-Dioxane	9.3	U	29	9.3
78-93-3	2-Butanone (MEK)	1.1	U	7.2	1.1
591-78-6	2-Hexanone	1.4	U	7.2	1.4
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U F1	7.2	3.2
67-64-1	Acetone	17	J F2 J	7.2	1.5
71-43-2	Benzene	0.29	UJF2 F1	1.4	0.29
75-25-2	Bromoform	0.19	UJF1	1.4	0.19
74-83-9	Bromomethane	0.46	UJF2 F1	1.4	0.46
75-15-0	Carbon disulfide	0.62	UJF2 F1	1.4	0.62
56-23-5	Carbon tetrachloride	0.62	UJF2 F1	1.4	0.62
108-90-7	Chlorobenzene	0.20	UJF2 F1	1.4	0.20
74-97-5	Chlorobromomethane	0.25	UJF2 F1	1.4	0.25
124-48-1	Chlorodibromomethane	0.22	UJF1	1.4	0.22
75-00-3	Chloroethane	0.51	U F2 F1	1.4	0.51
67-66-3	Chloroform	0.30	UJF1	1.4	0.30
74-87-3	Chloromethane	0.55	U F2	1.4	0.55
156-59-2	cis-1,2-Dichloroethene	0.32	UJF1	1.4	0.32

MS

CCV, RPD

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) Lab Sample ID: 460-94148-5

Matrix: Solid Lab File ID: K39491.D

Analysis Method: 8260C Date Collected: 05/01/2015 11:42

Sample wt/vol: 4.44(g) Date Analyzed: 05/06/2015 08:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.3 Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-01-5	cis-1,3-Dichloropropene	0.22	UJF1	1.4	0.22
110-82-7	Cyclohexane	0.67	UJF2 F1	1.4	0.67
75-27-4	Dichlorobromomethane	0.55	UJF1	1.4	0.55
75-71-8	Dichlorodifluoromethane	0.46	U F2	1.4	0.46
100-41-4	Ethylbenzene	0.26	UJF2 F1	1.4	0.26
106-93-4	Ethylene Dibromide	0.17	UJF1	1.4	0.17
98-82-8	Isopropylbenzene	0.25	UJF2 F1	1.4	0.25
79-20-9	Methyl acetate	1.3	UJF2 F1	7.2	1.3
1634-04-4	Methyl tert-butyl ether	0.25	UJF2 F1	1.4	0.25
108-87-2	Methylcyclohexane	3.4	F2 F1 J	1.4	0.72
75-09-2	Methylene Chloride	0.46	UJF2 F1	1.4	0.46
179601-23-1	m-Xylene & p-Xylene	0.16	UJF2 F1	1.4	0.16
95-47-6	o-Xylene	0.23	UJF2 F1	1.4	0.23
100-42-5	Styrene	0.22	UJF1	1.4	0.22
127-18-4	Tetrachloroethene	0.41	UJF2 F1	1.4	0.41
108-88-3	Toluene	0.28	UJF2 F1	1.4	0.28
156-60-5	trans-1,2-Dichloroethene	0.56	UJF2 F1	1.4	0.56
10061-02-6	trans-1,3-Dichloropropene	0.14	UJF1	1.4	0.14
79-01-6	Trichloroethene	0.38	UJF1	1.4	0.38
75-69-4	Trichlorofluoromethane	0.49	UJF2 F1	1.4	0.49
75-01-4	Vinyl chloride	0.56	UJF2 F1	1.4	0.56
107-06-2	1,2-Dichloroethane	0.16	UJF1	1.4	0.16
95-50-1	1,2-Dichlorobenzene	0.20	UJF2 F1	1.4	0.20
96-12-8	1,2-Dibromo-3-Chloropropane	0.68	UJF1	1.4	0.68

MS
CCV
MS, RPD
MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) Lab Sample ID: 460-94148-5

Matrix: Solid Lab File ID: K39491.D

Analysis Method: 8260C Date Collected: 05/01/2015 11:42

Sample wt/vol: 4.44(g) Date Analyzed: 05/06/2015 08:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.3 Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
460-00-4	4-Bromofluorobenzene	116		70-130
1868-53-7	Dibromofluoromethane (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: K39491.D

Analysis Method: 8260C | Date Collected: 05/01/2015 11:42

Sample wt/vol: 4.44(g) | Date Analyzed: 05/06/2015 08:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.3 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 3420

CAS NO.	COMPOUND NAME	RT	RESULT	Q
493-02-7	Naphthalene, decahydro-, trans-	11.24	390	J N
	Unknown	11.41	320	J
	Unknown	11.65	570	J
2958-75-0	1-Methyldecahydronaphthalene	11.77	320	J N
6044-71-9	Dodecane, 6-methyl-	12.01	500	J N
	Unknown	12.12	220	J
	Unknown	12.33	330	J
	Unknown	12.38	230	J
	Unknown	12.44	250	J
	Unknown	12.70	290	J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: K39488.D

Analysis Method: 8260C | Date Collected: 05/01/2015 15:15

Sample wt/vol: 5.81(g) | Date Analyzed: 05/06/2015 06:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.3 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.41	U	1.1	0.41	
79-34-5	1,1,2,2-Tetrachloroethane	0.18	U	1.1	0.18	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	U	1.1	0.47	
79-00-5	1,1,2-Trichloroethane	0.30	U	1.1	0.30	
75-34-3	1,1-Dichloroethane	0.36	U	1.1	0.36	
75-35-4	1,1-Dichloroethene	0.44	U	1.1	0.44	
87-61-6	1,2,3-Trichlorobenzene	0.12	U	1.1	0.12	
120-82-1	1,2,4-Trichlorobenzene	0.34	U	1.1	0.34	
78-87-5	1,2-Dichloropropane	0.18	U	1.1	0.18	
541-73-1	1,3-Dichlorobenzene	0.13	U	1.1	0.13	
106-46-7	1,4-Dichlorobenzene	0.14	U	1.1	0.14	
123-91-1	1,4-Dioxane	6.8	U	21	6.8	
78-93-3	2-Butanone (MEK)	0.82	U	5.3	0.82	
591-78-6	2-Hexanone	1.0	U	5.3	1.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.4	U	5.3	2.4	
67-64-1	Acetone	~~5.0~~ 5.3 UJ ~~J B~~		5.3	1.1	ccv, mb
71-43-2	Benzene	0.21	U	1.1	0.21	
75-25-2	Bromoform	0.14	U	1.1	0.14	
74-83-9	Bromomethane	0.34	U	1.1	0.34	
75-15-0	Carbon disulfide	0.46	U	1.1	0.46	
56-23-5	Carbon tetrachloride	0.46	U	1.1	0.46	
108-90-7	Chlorobenzene	0.15	U	1.1	0.15	
74-97-5	Chlorobromomethane	0.18	U	1.1	0.18	
124-48-1	Chlorodibromomethane	0.16	U	1.1	0.16	
75-00-3	Chloroethane	0.37	U	1.1	0.37	
67-66-3	Chloroform	0.22	U	1.1	0.22	
74-87-3	Chloromethane	0.41	U	1.1	0.41	
156-59-2	cis-1,2-Dichloroethene	0.23	U	1.1	0.23	
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.1	0.16	
110-82-7	Cyclohexane	0.49	U	1.1	0.49	
75-27-4	Dichlorobromomethane	0.41	U	1.1	0.41	
75-71-8	Dichlorodifluoromethane	0.34	U	1.1	0.34	
100-41-4	Ethylbenzene	0.19	U	1.1	0.19	
106-93-4	Ethylene Dibromide	0.13	U	1.1	0.13	
98-82-8	Isopropylbenzene	0.18	U	1.1	0.18	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: K39488.D

Analysis Method: 8260C | Date Collected: 05/01/2015 15:15

Sample wt/vol: 5.81(g) | Date Analyzed: 05/06/2015 06:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.3 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	0.96	UJ	5.3	0.96
1634-04-4	Methyl tert-butyl ether	0.18	U	1.1	0.18
108-87-2	Methylcyclohexane	0.53	U	1.1	0.53
75-09-2	Methylene Chloride	0.34	U	1.1	0.34
179601-23-1	m-Xylene & p-Xylene	0.12	U	1.1	0.12
95-47-6	o-Xylene	0.17	U	1.1	0.17
100-42-5	Styrene	0.16	U	1.1	0.16
127-18-4	Tetrachloroethene	0.30	U	1.1	0.30
108-88-3	Toluene	0.20	U	1.1	0.20
156-60-5	trans-1,2-Dichloroethene	0.42	U	1.1	0.42
10061-02-6	trans-1,3-Dichloropropene	0.11	U	1.1	0.11
79-01-6	Trichloroethene	0.28	U	1.1	0.28
75-69-4	Trichlorofluoromethane	0.36	U	1.1	0.36
75-01-4	Vinyl chloride	0.42	U	1.1	0.42
107-06-2	1,2-Dichloroethane	0.12	U	1.1	0.12
95-50-1	1,2-Dichlorobenzene	0.15	U	1.1	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U	1.1	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
460-00-4	4-Bromofluorobenzene	104		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: K39488.D

Analysis Method: 8260C | Date Collected: 05/01/2015 15:15

Sample wt/vol: 5.81(g) | Date Analyzed: 05/06/2015 06:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 19.3 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) Lab Sample ID: 460-94148-7

Matrix: Solid Lab File ID: K39489.D

Analysis Method: 8260C Date Collected: 05/01/2015 14:54

Sample wt/vol: 4.87(g) Date Analyzed: 05/06/2015 07:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.7 Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.46	U	1.2	0.46	
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	1.2	0.20	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	U	1.2	0.53	
79-00-5	1,1,2-Trichloroethane	0.34	U	1.2	0.34	
75-34-3	1,1-Dichloroethane	0.41	U	1.2	0.41	
75-35-4	1,1-Dichloroethene	0.49	U	1.2	0.49	
87-61-6	1,2,3-Trichlorobenzene	0.13	U	1.2	0.13	
120-82-1	1,2,4-Trichlorobenzene	0.39	U	1.2	0.39	
78-87-5	1,2-Dichloropropane	0.20	U	1.2	0.20	
541-73-1	1,3-Dichlorobenzene	0.14	U	1.2	0.14	
106-46-7	1,4-Dichlorobenzene	0.16	U	1.2	0.16	
~~123-91-1~~	~~1,4-Dioxane~~	~~7.7~~	~~U~~ * R	~~24~~	~~7.7~~	IS
78-93-3	2-Butanone (MEK)	0.93	U	6.0	0.93	
591-78-6	2-Hexanone	1.1	U	6.0	1.1	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.7	U	6.0	2.7	
67-64-1	Acetone	1.3	U	6.0	1.3	
71-43-2	Benzene	190	J	1.2	0.24	CCV
75-25-2	Bromoform	0.16	U	1.2	0.16	
74-83-9	Bromomethane	0.39	U	1.2	0.39	
75-15-0	Carbon disulfide	5.7		1.2	0.52	
56-23-5	Carbon tetrachloride	0.52	U	1.2	0.52	
108-90-7	Chlorobenzene	0.17	U	1.2	0.17	
74-97-5	Chlorobromomethane	0.20	U	1.2	0.20	
124-48-1	Chlorodibromomethane	0.18	U	1.2	0.18	
75-00-3	Chloroethane	0.42	U	1.2	0.42	
67-66-3	Chloroform	0.25	U	1.2	0.25	
74-87-3	Chloromethane	0.46	U	1.2	0.46	
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.2	0.26	
10061-01-5	cis-1,3-Dichloropropene	0.18	U	1.2	0.18	
110-82-7	Cyclohexane	0.55	U	1.2	0.55	
75-27-4	Dichlorobromomethane	0.46	U	1.2	0.46	
75-71-8	Dichlorodifluoromethane	0.39	U	1.2	0.39	
100-41-4	Ethylbenzene	71		1.2	0.22	
106-93-4	Ethylene Dibromide	0.14	U	1.2	0.14	
98-82-8	Isopropylbenzene	3.5	~~J~~ J+	1.2	0.20	CCV, LCS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: K39489.D

Analysis Method: 8260C | Date Collected: 05/01/2015 14:54

Sample wt/vol: 4.87(g) | Date Analyzed: 05/06/2015 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	1.1	UJ	6.0	1.1
1634-04-4	Methyl tert-butyl ether	0.29	J	1.2	0.20
108-87-2	Methylcyclohexane	0.60	U	1.2	0.60
75-09-2	Methylene Chloride	0.39	U	1.2	0.39
179601-23-1	m-Xylene & p-Xylene	17		1.2	0.13
95-47-6	o-Xylene	16		1.2	0.19
100-42-5	Styrene	0.18	U	1.2	0.18
127-18-4	Tetrachloroethene	0.34	U	1.2	0.34
108-88-3	Toluene	0.91	J	1.2	0.23
156-60-5	trans-1,2-Dichloroethene	0.47	U	1.2	0.47
10061-02-6	trans-1,3-Dichloropropene	0.12	U	1.2	0.12
79-01-6	Trichloroethene	0.31	U	1.2	0.31
75-69-4	Trichlorofluoromethane	0.41	U	1.2	0.41
75-01-4	Vinyl chloride	0.47	U	1.2	0.47
107-06-2	1,2-Dichloroethane	0.13	U	1.2	0.13
95-50-1	1,2-Dichlorobenzene	0.17	U	1.2	0.17
96-12-8	1,2-Dibromo-3-Chloropropane	0.57	U	1.2	0.57

ccv

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
460-00-4	4-Bromofluorobenzene	102		70-130
1868-53-7	Dibromofluoromethane (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: K39489.D

Analysis Method: 8260C | Date Collected: 05/01/2015 14:54

Sample wt/vol: 4.87(g) | Date Analyzed: 05/06/2015 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 14.7 | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

Number TICs Found: 10 | TIC Result Total: 2593

CAS NO.	COMPOUND NAME	RT	RESULT	Q
95-63-6	Benzene, 1,2,4-trimethyl-	10.79	32	J N
496-11-7	Indane	11.22	450	J N
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	11.93	33	J N
824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	12.04	23	J N
2177-47-1	2-Methylindene	12.16	49	J N
91-20-3	Naphthalene	12.48	1500	J N
270-82-6	2-Benzothiophene #	12.57	41	J N
91-57-6	Naphthalene, 2-methyl-	13.31	250	J N
90-12-0	Naphthalene, 1-methyl-	13.49	170	J N
83-32-9	Acenaphthene	15.43	45	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: x1800.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0226(g) | Date Analyzed: 05/06/2015 12:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	38	J	410	35
95-94-3	1,2,4,5-Tetrachlorobenzene	31	U	410	31
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	410	17
58-90-2	2,3,4,6-Tetrachlorophenol	39	U	410	39
95-95-4	2,4,5-Trichlorophenol	41	U	410	41
88-06-2	2,4,6-Trichlorophenol	12	U	170	12
120-83-2	2,4-Dichlorophenol	9.7	U	170	9.7
105-67-9	2,4-Dimethylphenol	90	U	410	90
51-28-5	2,4-Dinitrophenol	310	U	330	310
121-14-2	2,4-Dinitrotoluene	16	U	83	16
606-20-2	2,6-Dinitrotoluene	22	U	83	22
91-58-7	2-Chloronaphthalene	9.3	U	410	9.3
95-57-8	2-Chlorophenol	10	U	410	10
91-57-6	2-Methylnaphthalene	66	J	410	9.1
95-48-7	2-Methylphenol	18	U	410	18
88-74-4	2-Nitroaniline	14	U	410	14
88-75-5	2-Nitrophenol	14	U	410	14
91-94-1	3,3'-Dichlorobenzidine	46	U	170	46
99-09-2	3-Nitroaniline	12	U	410	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	330	110
101-55-3	4-Bromophenyl phenyl ether	13	U	410	13
59-50-7	4-Chloro-3-methylphenol	18	U	410	18
106-47-8	4-Chloroaniline	11	U	410	11
7005-72-3	4-Chlorophenyl phenyl ether	12	U	410	12
106-44-5	4-Methylphenol	11	U	410	11
100-01-6	4-Nitroaniline	16	U	410	16
100-02-7	4-Nitrophenol	200	U	830	200
83-32-9	Acenaphthene	93	J	410	9.9
208-96-8	Acenaphthylene	22	J	410	11
98-86-2	Acetophenone	8.9	U	410	8.9
120-12-7	Anthracene	130	J	410	39
1912-24-9	Atrazine	18	U	170	18
100-52-7	Benzaldehyde	31	U	410	31
56-55-3	Benzo[a]anthracene	390		41	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: x1800.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0226(g) | Date Analyzed: 05/06/2015 12:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	390		41	12	
205-99-2	Benzo[b]fluoranthene	490		41	16	
191-24-2	Benzo[g,h,i]perylene	250	J	410	24	
207-08-9	Benzo[k]fluoranthene	190		41	18	
111-91-1	Bis(2-chloroethoxy)methane	13	U	410	13	
111-44-4	Bis(2-chloroethyl)ether	9.7	U	41	9.7	
117-81-7	Bis(2-ethylhexyl) phthalate	150	J	410	16	
85-68-7	Butyl benzyl phthalate	13	U	410	13	
105-60-2	Caprolactam	30	UJ	410	30	ccv
86-74-8	Carbazole	63	J	410	10	
218-01-9	Chrysene	420		410	11	
53-70-3	Dibenz(a,h)anthracene	63		41	21	
132-64-9	Dibenzofuran	63	J	410	12	
84-66-2	Diethyl phthalate	12	U	410	12	
131-11-3	Dimethyl phthalate	12	U	410	12	
84-74-2	Di-n-butyl phthalate	12	U	410	12	
117-84-0	Di-n-octyl phthalate	21	U	410	21	
206-44-0	Fluoranthene	830		410	12	
86-73-7	Fluorene	91	J	410	8.9	
118-74-1	Hexachlorobenzene	17	U	41	17	
87-68-3	Hexachlorobutadiene	12	U	83	12	
77-47-4	Hexachlorocyclopentadiene	26	U	410	26	
67-72-1	Hexachloroethane	15	U	41	15	
193-39-5	Indeno[1,2,3-cd]pyrene	320		41	27	
78-59-1	Isophorone	8.8	U	170	8.8	
91-20-3	Naphthalene	130	J	410	10	
98-95-3	Nitrobenzene	13	U	41	13	
621-64-7	N-Nitrosodi-n-propylamine	14	U	41	14	
86-30-6	N-Nitrosodiphenylamine	37	U	410	37	
87-86-5	Pentachlorophenol	50	U	330	50	
85-01-8	Phenanthrene	720		410	11	
108-95-2	Phenol	13	U	410	13	
129-00-0	Pyrene	770		410	19	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: x1800.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0226(g) | Date Analyzed: 05/06/2015 12:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	55		10-120
321-60-8	2-Fluorobiphenyl	68		40-109
367-12-4	2-Fluorophenol (Surr)	52		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	60		38-105
4165-62-2	Phenol-d5 (Surr)	51		41-118
1718-51-0	Terphenyl-d14 (Surr)	65		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: x1800.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0226(g) | Date Analyzed: 05/06/2015 12:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: x1810.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:14

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0287(g) | Date Analyzed: 05/06/2015 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 43.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	540	J	590	50
95-94-3	1,2,4,5-Tetrachlorobenzene	44	U	590	44
108-60-1	2,2'-oxybis[1-chloropropane]	24	U	590	24
58-90-2	2,3,4,6-Tetrachlorophenol	55	U	590	55
95-95-4	2,4,5-Trichlorophenol	59	U	590	59
88-06-2	2,4,6-Trichlorophenol	17	U	240	17
120-83-2	2,4-Dichlorophenol	14	U	240	14
105-67-9	2,4-Dimethylphenol	130	U	590	130
51-28-5	2,4-Dinitrophenol	450	U	470	450
121-14-2	2,4-Dinitrotoluene	23	U	120	23
606-20-2	2,6-Dinitrotoluene	31	U	120	31
91-58-7	2-Chloronaphthalene	13	U	590	13
95-57-8	2-Chlorophenol	15	U	590	15
91-57-6	2-Methylnaphthalene	4100		590	13
95-48-7	2-Methylphenol	26	U	590	26
88-74-4	2-Nitroaniline	19	U	590	19
88-75-5	2-Nitrophenol	20	U	590	20
91-94-1	3,3'-Dichlorobenzidine	66	U	240	66
99-09-2	3-Nitroaniline	17	U	590	17
534-52-1	4,6-Dinitro-2-methylphenol	160	U	470	160
101-55-3	4-Bromophenyl phenyl ether	19	U	590	19
59-50-7	4-Chloro-3-methylphenol	25	U	590	25
106-47-8	4-Chloroaniline	15	U	590	15
7005-72-3	4-Chlorophenyl phenyl ether	18	U	590	18
106-44-5	4-Methylphenol	16	U	590	16
100-01-6	4-Nitroaniline	22	U	590	22
100-02-7	4-Nitrophenol	280	U	1200	280
83-32-9	Acenaphthene	3800		590	14
208-96-8	Acenaphthylene	180	J	590	15
98-86-2	Acetophenone	13	U	590	13
120-12-7	Anthracene	1100		590	56
1912-24-9	Atrazine	26	U	240	26
100-52-7	Benzaldehyde	85	J	590	45
56-55-3	Benzo[a]anthracene	710		59	49

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: x1810.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:14

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0287(g) | Date Analyzed: 05/06/2015 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 43.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	500		59	18	
205-99-2	Benzo[b]fluoranthene	410		59	23	
191-24-2	Benzo[g,h,i]perylene	240	J	590	34	
207-08-9	Benzo[k]fluoranthene	150		59	26	
111-91-1	Bis(2-chloroethoxy)methane	18	U	590	18	
111-44-4	Bis(2-chloroethyl)ether	14	U	59	14	
117-81-7	Bis(2-ethylhexyl) phthalate	510	J	590	23	
85-68-7	Butyl benzyl phthalate	18	U	590	18	
105-60-2	Caprolactam	42	UJ	590	42	CCV
86-74-8	Carbazole	98	J	590	15	
218-01-9	Chrysene	670		590	16	
53-70-3	Dibenz(a,h)anthracene	73		59	31	
132-64-9	Dibenzofuran	180	J	590	18	
84-66-2	Diethyl phthalate	17	U	590	17	
131-11-3	Dimethyl phthalate	17	U	590	17	
84-74-2	Di-n-butyl phthalate	18	U	590	18	
117-84-0	Di-n-octyl phthalate	30	U	590	30	
206-44-0	Fluoranthene	1300		590	17	
86-73-7	Fluorene	1700		590	13	
118-74-1	Hexachlorobenzene	24	U	59	24	
87-68-3	Hexachlorobutadiene	17	U	120	17	
77-47-4	Hexachlorocyclopentadiene	37	U	590	37	
67-72-1	Hexachloroethane	22	U	59	22	
193-39-5	Indeno[1,2,3-cd]pyrene	250		59	39	
78-59-1	Isophorone	13	U	240	13	
91-20-3	Naphthalene	6300		590	15	
98-95-3	Nitrobenzene	19	U	59	19	
621-64-7	N-Nitrosodi-n-propylamine	20	U	59	20	
86-30-6	N-Nitrosodiphenylamine	53	U	590	53	
87-86-5	Pentachlorophenol	71	U	470	71	
85-01-8	Phenanthrene	4300		590	16	
108-95-2	Phenol	19	U	590	19	
129-00-0	Pyrene	1500		590	27	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: x1810.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:14

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0287(g) | Date Analyzed: 05/06/2015 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 43.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	78		10-120
321-60-8	2-Fluorobiphenyl	74		40-109
367-12-4	2-Fluorophenol (Surr)	49		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	59		38-105
4165-62-2	Phenol-d5 (Surr)	46		41-118
1718-51-0	Terphenyl-d14 (Surr)	60		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: x1810.D

Analysis Method: 8270D | Date Collected: 04/29/2015 15:14

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0287(g) | Date Analyzed: 05/06/2015 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 43.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 170400

CAS NO.	COMPOUND NAME	RT	RESULT	Q
13837-67-7	m-Menthane, (1S,3S)-(+)-	3.55	4400	J N
473-19-8	Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-	3.58	3900	J N
6299-87-2	Pyrimidin-6-ol-4-carboxylic acid	3.67	8800	J N
90-12-0	Naphthalene, 1-methyl-	5.95	2600	J N
483-77-2	Naphthalene, 1,2,3,4-tetrahydro-1,6-dime	7.06	3900	J N
83469-43-6	6H-Cyclobuta[jk]phenanthrene	8.93	2700	J N
1000156-41-6	Dicyclopenta[a,d]benzene, 4,8-diethyl-1,	9.09	3500	J N
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthrene, 4	9.30	57000	J N
32624-67-2	10,18-Bisnorabieta-8,11,13-triene	9.37	9200	J N
27824-40-4	p,p-Bis(1-aziridinyl)-N-(p-tolyl)phosphi	9.41	2700	J N
37940-57-1	4'-Phenylpropiophenone	9.59	11000	J N
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	10.04	5900	J N
1000251-96-9	Tetrahydroabietic acid	10.69	5500	J N
1000251-96-9	Tetrahydroabietic acid	10.82	19000	J N
6079-19-2	Cholestane, 4,5-epoxy-, (4.alpha.,5.alph	13.80	2800	J N
163158-91-6	Pyrimido[1,2-a]indole, 4-isopropyl-5-met	14.78	6300	J N
83-46-5	.beta.-Sitosterol	14.82	2500	J N
107729-05-5	5-(1-Naphthyl)tricyclo[4.1.0.0(2,7)]hept	14.89	4500	J N
1000140-07-7	1,4-Dimethyl-8-isopropylidenetricyclo[5.	15.00	11000	J N
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	15.18	3200	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: x1798.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:28

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0213(g) | Date Analyzed: 05/06/2015 12:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	38	U	450	38
95-94-3	1,2,4,5-Tetrachlorobenzene	33	U	450	33
108-60-1	2,2'-oxybis[1-chloropropane]	18	U	450	18
58-90-2	2,3,4,6-Tetrachlorophenol	42	U	450	42
95-95-4	2,4,5-Trichlorophenol	45	U	450	45
88-06-2	2,4,6-Trichlorophenol	13	U	180	13
120-83-2	2,4-Dichlorophenol	11	U	180	11
105-67-9	2,4-Dimethylphenol	99	U	450	99
51-28-5	2,4-Dinitrophenol	340	U	360	340
121-14-2	2,4-Dinitrotoluene	18	U	91	18
606-20-2	2,6-Dinitrotoluene	24	U	91	24
91-58-7	2-Chloronaphthalene	10	U	450	10
95-57-8	2-Chlorophenol	11	U	450	11
91-57-6	2-Methylnaphthalene	9.9	U	450	9.9
95-48-7	2-Methylphenol	20	U	450	20
88-74-4	2-Nitroaniline	15	U	450	15
88-75-5	2-Nitrophenol	15	U	450	15
91-94-1	3,3'-Dichlorobenzidine	50	U	180	50
99-09-2	3-Nitroaniline	13	U	450	13
534-52-1	4,6-Dinitro-2-methylphenol	120	U	360	120
101-55-3	4-Bromophenyl phenyl ether	14	U	450	14
59-50-7	4-Chloro-3-methylphenol	19	U	450	19
106-47-8	4-Chloroaniline	12	U	450	12
7005-72-3	4-Chlorophenyl phenyl ether	13	U	450	13
106-44-5	4-Methylphenol	12	U	450	12
100-01-6	4-Nitroaniline	17	U	450	17
100-02-7	4-Nitrophenol	220	U	910	220
83-32-9	Acenaphthene	11	U	450	11
208-96-8	Acenaphthylene	12	U	450	12
98-86-2	Acetophenone	9.8	U	450	9.8
120-12-7	Anthracene	43	U	450	43
1912-24-9	Atrazine	20	U	180	20
100-52-7	Benzaldehyde	34	U	450	34
56-55-3	Benzo[a]anthracene	38	U	45	38

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: x1798.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:28

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0213(g) | Date Analyzed: 05/06/2015 12:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	14	U	45	14	
205-99-2	Benzo[b]fluoranthene	18	U	45	18	
191-24-2	Benzo[g,h,i]perylene	26	U	450	26	
207-08-9	Benzo[k]fluoranthene	20	U	45	20	
111-91-1	Bis(2-chloroethoxy)methane	14	U	450	14	
111-44-4	Bis(2-chloroethyl)ether	11	U	45	11	
117-81-7	Bis(2-ethylhexyl) phthalate	18	U	450	18	
85-68-7	Butyl benzyl phthalate	14	U	450	14	
105-60-2	Caprolactam	32	UJ	450	32	ccv
86-74-8	Carbazole	11	U	450	11	
218-01-9	Chrysene	12	U	450	12	
53-70-3	Dibenz(a,h)anthracene	23	U	45	23	
132-64-9	Dibenzofuran	14	U	450	14	
84-66-2	Diethyl phthalate	13	U	450	13	
131-11-3	Dimethyl phthalate	13	U	450	13	
84-74-2	Di-n-butyl phthalate	13	U	450	13	
117-84-0	Di-n-octyl phthalate	23	U	450	23	
206-44-0	Fluoranthene	13	U	450	13	
86-73-7	Fluorene	9.8	U	450	9.8	
118-74-1	Hexachlorobenzene	18	U	45	18	
87-68-3	Hexachlorobutadiene	13	U	91	13	
77-47-4	Hexachlorocyclopentadiene	28	U	450	28	
67-72-1	Hexachloroethane	16	U	45	16	
193-39-5	Indeno[1,2,3-cd]pyrene	30	U	45	30	
78-59-1	Isophorone	9.7	U	180	9.7	
91-20-3	Naphthalene	11	U	450	11	
98-95-3	Nitrobenzene	14	U	45	14	
621-64-7	N-Nitrosodi-n-propylamine	15	U	45	15	
86-30-6	N-Nitrosodiphenylamine	41	U	450	41	
87-86-5	Pentachlorophenol	54	U	360	54	
85-01-8	Phenanthrene	12	U	450	12	
108-95-2	Phenol	15	U	450	15	
129-00-0	Pyrene	20	U	450	20	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: x1798.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:28

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0213(g) | Date Analyzed: 05/06/2015 12:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	70		10-120
321-60-8	2-Fluorobiphenyl	64		40-109
367-12-4	2-Fluorophenol (Surr)	56		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	60		38-105
4165-62-2	Phenol-d5 (Surr)	56		41-118
1718-51-0	Terphenyl-d14 (Surr)	70		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: x1798.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:28

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0213(g) | Date Analyzed: 05/06/2015 12:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: x1799.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0392(g) | Date Analyzed: 05/06/2015 12:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	34	U	400	34
95-94-3	1,2,4,5-Tetrachlorobenzene	30	U	400	30
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	400	17
58-90-2	2,3,4,6-Tetrachlorophenol	38	U	400	38
95-95-4	2,4,5-Trichlorophenol	40	U	400	40
88-06-2	2,4,6-Trichlorophenol	11	U	160	11
120-83-2	2,4-Dichlorophenol	9.5	U	160	9.5
105-67-9	2,4-Dimethylphenol	89	U	400	89
51-28-5	2,4-Dinitrophenol	310	U	320	310
121-14-2	2,4-Dinitrotoluene	16	U	82	16
606-20-2	2,6-Dinitrotoluene	21	U	82	21
91-58-7	2-Chloronaphthalene	9.2	U	400	9.2
95-57-8	2-Chlorophenol	10	U	400	10
91-57-6	2-Methylnaphthalene	8.9	U	400	8.9
95-48-7	2-Methylphenol	18	U	400	18
88-74-4	2-Nitroaniline	13	U	400	13
88-75-5	2-Nitrophenol	14	U	400	14
91-94-1	3,3'-Dichlorobenzidine	45	U	160	45
99-09-2	3-Nitroaniline	12	U	400	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	320	110
101-55-3	4-Bromophenyl phenyl ether	13	U	400	13
59-50-7	4-Chloro-3-methylphenol	17	U	400	17
106-47-8	4-Chloroaniline	10	U	400	10
7005-72-3	4-Chlorophenyl phenyl ether	12	U	400	12
106-44-5	4-Methylphenol	11	U	400	11
100-01-6	4-Nitroaniline	15	U	400	15
100-02-7	4-Nitrophenol	190	U	820	190
83-32-9	Acenaphthene	9.8	U	400	9.8
208-96-8	Acenaphthylene	10	U	400	10
98-86-2	Acetophenone	8.8	U	400	8.8
120-12-7	Anthracene	38	U	400	38
1912-24-9	Atrazine	18	U	160	18
100-52-7	Benzaldehyde	31	U	400	31
56-55-3	Benzo[a]anthracene	34	U	40	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: x1799.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0392(g) | Date Analyzed: 05/06/2015 12:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	12	U	40	12	
205-99-2	Benzo[b]fluoranthene	16	U	40	16	
191-24-2	Benzo[g,h,i]perylene	23	U	400	23	
207-08-9	Benzo[k]fluoranthene	18	U	40	18	
111-91-1	Bis(2-chloroethoxy)methane	13	U	400	13	
111-44-4	Bis(2-chloroethyl)ether	9.5	U	40	9.5	
117-81-7	Bis(2-ethylhexyl) phthalate	16	U	400	16	
85-68-7	Butyl benzyl phthalate	12	U	400	12	
105-60-2	Caprolactam	29	UJ	400	29	ccv
86-74-8	Carbazole	10	U	400	10	
218-01-9	Chrysene	11	U	400	11	
53-70-3	Dibenz(a,h)anthracene	21	U	40	21	
132-64-9	Dibenzofuran	12	U	400	12	
84-66-2	Diethyl phthalate	11	U	400	11	
131-11-3	Dimethyl phthalate	12	U	400	12	
84-74-2	Di-n-butyl phthalate	12	U	400	12	
117-84-0	Di-n-octyl phthalate	20	U	400	20	
206-44-0	Fluoranthene	12	U	400	12	
86-73-7	Fluorene	8.8	U	400	8.8	
118-74-1	Hexachlorobenzene	16	U	40	16	
87-68-3	Hexachlorobutadiene	11	U	82	11	
77-47-4	Hexachlorocyclopentadiene	25	U	400	25	
67-72-1	Hexachloroethane	15	U	40	15	
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	40	27	
78-59-1	Isophorone	8.7	U	160	8.7	
91-20-3	Naphthalene	10	U	400	10	
98-95-3	Nitrobenzene	13	U	40	13	
621-64-7	N-Nitrosodi-n-propylamine	14	U	40	14	
86-30-6	N-Nitrosodiphenylamine	37	U	400	37	
87-86-5	Pentachlorophenol	49	U	320	49	
85-01-8	Phenanthrene	11	U	400	11	
108-95-2	Phenol	13	U	400	13	
129-00-0	Pyrene	18	U	400	18	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: x1799.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0392(g) | Date Analyzed: 05/06/2015 12:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		10-120
321-60-8	2-Fluorobiphenyl	70		40-109
367-12-4	2-Fluorophenol (Surr)	60		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	65		38-105
4165-62-2	Phenol-d5 (Surr)	59		41-118
1718-51-0	Terphenyl-d14 (Surr)	76		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: x1799.D

Analysis Method: 8270D | Date Collected: 04/29/2015 17:09

Extract. Method: 3546 | Date Extracted: 05/03/2015 13:07

Sample wt/vol: 15.0392(g) | Date Analyzed: 05/06/2015 12:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296672 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: z0891.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:28

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0481(g) | Date Analyzed: 05/05/2015 15:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 63.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

% solids <50%

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	770	UJ	9000	770
95-94-3	1,2,4,5-Tetrachlorobenzene	670	U	9000	670
108-60-1	2,2'-oxybis[1-chloropropane]	370	U	9000	370
58-90-2	2,3,4,6-Tetrachlorophenol	850	U	9000	850
95-95-4	2,4,5-Trichlorophenol	900	U	9000	900
88-06-2	2,4,6-Trichlorophenol	260	U	3600	260
120-83-2	2,4-Dichlorophenol	210	U	3600	210
105-67-9	2,4-Dimethylphenol	2000	U	9000	2000
51-28-5	2,4-Dinitrophenol	6800	U	7300	6800
121-14-2	2,4-Dinitrotoluene	360	U	1800	360
606-20-2	2,6-Dinitrotoluene	480	U	1800	480
91-58-7	2-Chloronaphthalene	200	U	9000	200
95-57-8	2-Chlorophenol	230	U	9000	230
91-57-6	2-Methylnaphthalene	4000	J	9000	200
95-48-7	2-Methylphenol	390	U	9000	390
88-74-4	2-Nitroaniline	300	U	9000	300
88-75-5	2-Nitrophenol	300	U	9000	300
91-94-1	3,3'-Dichlorobenzidine	1000	U	3600	1000
99-09-2	3-Nitroaniline	270	U	9000	270
534-52-1	4,6-Dinitro-2-methylphenol	2400	U	7300	2400
101-55-3	4-Bromophenyl phenyl ether	280	U	9000	280
59-50-7	4-Chloro-3-methylphenol	390	U	9000	390
106-47-8	4-Chloroaniline	230	U	9000	230
7005-72-3	4-Chlorophenyl phenyl ether	270	U	9000	270
106-44-5	4-Methylphenol	250	U	9000	250
100-01-6	4-Nitroaniline	340	U	9000	340
100-02-7	4-Nitrophenol	4300	U	18000	4300
83-32-9	Acenaphthene	220	U	9000	220
208-96-8	Acenaphthylene	230	U	9000	230
98-86-2	Acetophenone	200	U	9000	200
120-12-7	Anthracene	1600	J	9000	860
1912-24-9	Atrazine	400	UJ	3600	400
100-52-7	Benzaldehyde	690	UJ	9000	690
56-55-3	Benzo[a]anthracene	2200	J	900	750

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1
SDG No.: 94062, 94148
Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1
Matrix: Solid | Lab File ID: z0891.D
Analysis Method: 8270D | Date Collected: 04/30/2015 13:28
Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28
Sample wt/vol: 15.0481(g) | Date Analyzed: 05/05/2015 15:38
Con. Extract Vol.: 1(mL) | Dilution Factor: 10
Injection Volume: 1(uL) | Level: (low/med) Low
% Moisture: 63.5 | GPC Cleanup:(Y/N) N
Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1700	J	900	270
205-99-2	Benzo[b]fluoranthene	2100	J	900	350
191-24-2	Benzo[g,h,i]perylene	520	UJ	9000	520
207-08-9	Benzo[k]fluoranthene	800	J	900	390
111-91-1	Bis(2-chloroethoxy)methane	280	UJ	9000	280
111-44-4	Bis(2-chloroethyl)ether	210	UJ	900	210
117-81-7	Bis(2-ethylhexyl) phthalate	1100	J	9000	350
85-68-7	Butyl benzyl phthalate	280	UJ	9000	280
105-60-2	Caprolactam	650	UJ	9000	650
86-74-8	Carbazole	220	UJ	9000	220
218-01-9	Chrysene	2100	J	9000	250
53-70-3	Dibenz(a,h)anthracene	470	UJ	900	470
132-64-9	Dibenzofuran	270	UJ	9000	270
84-66-2	Diethyl phthalate	260	UJ	9000	260
131-11-3	Dimethyl phthalate	260	UJ	9000	260
84-74-2	Di-n-butyl phthalate	270	UJ	9000	270
117-84-0	Di-n-octyl phthalate	460	UJ	9000	460
206-44-0	Fluoranthene	5200	J	9000	270
86-73-7	Fluorene	200	UJ	9000	200
118-74-1	Hexachlorobenzene	370	UJ	900	370
87-68-3	Hexachlorobutadiene	250	UJ	1800	250
77-47-4	Hexachlorocyclopentadiene	560	UJ	9000	560
67-72-1	Hexachloroethane	330	UJ	900	330
193-39-5	Indeno[1,2,3-cd]pyrene	1200	J	900	600
78-59-1	Isophorone	190	UJ	3600	190
91-20-3	Naphthalene	3000	J	9000	230
98-95-3	Nitrobenzene	280	UJ	900	280
621-64-7	N-Nitrosodi-n-propylamine	300	UJ	900	300
86-30-6	N-Nitrosodiphenylamine	820	UJ	9000	820
87-86-5	Pentachlorophenol	1100	UJ	7300	1100
85-01-8	Phenanthrene	3300	J	9000	240
108-95-2	Phenol	300	UJ	9000	300
129-00-0	Pyrene	4200	J	9000	410

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: z0891.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:28

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0481(g) | Date Analyzed: 05/05/2015 15:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 63.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	46		10-120
321-60-8	2-Fluorobiphenyl	65		40-109
367-12-4	2-Fluorophenol (Surr)	43		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	50		38-105
4165-62-2	Phenol-d5 (Surr)	45		41-118
1718-51-0	Terphenyl-d14 (Surr)	43		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: z0891.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:28

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0481(g) | Date Analyzed: 05/05/2015 15:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 63.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 4.067e+006

CAS NO.	COMPOUND NAME	RT	RESULT	Q
80655-44-3	Decahydro-4,4,8,9,10-pentamethylnaphthal	7.15	46000	J N
143857-68-5	Benzoxazole, 2-(2,2-dimethylpropyl)-	9.54	63000	J N
1000186-81-5	4-Hydroxymethylene-2,6-dimethyl-oct-7-en	10.15	420000	J N
473-08-5	7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8	12.09	120000	J N
13731-42-5	Androst-1-en-3-one, 17-(acetyloxy)-4,5-e	13.76	370000	J N
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	13.85	51000	J N
6754-66-1	5(1H)-Azulenone, 2,4,6,7,8,8a-hexahydro-	14.08	150000	J N
1000161-74-3	Alizarin, 1,2-O-(phenylboranediyl)-	14.94	340000	J N
126714-85-0	2,3-Dichlorothiophene-5-sulfonyl chlorid	15.07	47000	J N
56324-32-4	1,4-Naphthalenedione, 2-methyl-3-(3,7,11	15.22	83000	J N
83-46-5	.beta.-Sitosterol	15.31	150000	J N
1720-32-7	Benzene, 1,1'-(1,3,5-hexatriene-1,6-diyl	15.40	200000	J N
138089-71-1	9-Phenyl-5H-benzocycloheptene	15.47	140000	J N
1000293-90-4	4-Chloro-1,3-dimethyl-1H-pyrazolo[3,4-b]	15.52	330000	J N
1000188-66-5	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	15.60	77000	J N
6754-66-1	5(1H)-Azulenone, 2,4,6,7,8,8a-hexahydro-	15.70	160000	J N
64992-85-4	8-Amino-5-ethoxy-6-methoxyquinoline	15.78	330000	J N
32383-04-3	Dimethyl 6-methoxyquinolinate	15.82	560000	J N
1000126-75-7	Ethyl .alpha.-oximidostearate	15.89	230000	J N
15970-21-5	1-Methyl-5'-phenylspiro(indoline-3,3'-(3	16.14	200000	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: z0892.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:46

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0384(g) | Date Analyzed: 05/05/2015 16:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	770		510	44
95-94-3	1,2,4,5-Tetrachlorobenzene	38	U	510	38
108-60-1	2,2'-oxybis[1-chloropropane]	21	U	510	21
58-90-2	2,3,4,6-Tetrachlorophenol	48	U	510	48
95-95-4	2,4,5-Trichlorophenol	51	U	510	51
88-06-2	2,4,6-Trichlorophenol	15	U	210	15
120-83-2	2,4-Dichlorophenol	12	U	210	12
105-67-9	2,4-Dimethylphenol	110	U	510	110
51-28-5	2,4-Dinitrophenol	390	U	410	390
121-14-2	2,4-Dinitrotoluene	20	U	100	20
606-20-2	2,6-Dinitrotoluene	27	U	100	27
91-58-7	2-Chloronaphthalene	600		510	12
95-57-8	2-Chlorophenol	13	U	510	13
91-57-6	2-Methylnaphthalene	440	J	510	11
95-48-7	2-Methylphenol	22	U	510	22
88-74-4	2-Nitroaniline	17	U	510	17
88-75-5	2-Nitrophenol	17	U	510	17
91-94-1	3,3'-Dichlorobenzidine	57	U	210	57
99-09-2	3-Nitroaniline	15	U	510	15
534-52-1	4,6-Dinitro-2-methylphenol	140	U	410	140
101-55-3	4-Bromophenyl phenyl ether	16	U	510	16
59-50-7	4-Chloro-3-methylphenol	22	U	510	22
106-47-8	4-Chloroaniline	13	U	510	13
7005-72-3	4-Chlorophenyl phenyl ether	15	U	510	15
106-44-5	4-Methylphenol	95	J	510	14
100-01-6	4-Nitroaniline	19	U	510	19
100-02-7	4-Nitrophenol	250	U	1000	250
83-32-9	Acenaphthene	2600		510	12
208-96-8	Acenaphthylene	3300		510	13
98-86-2	Acetophenone	11	U	510	11
120-12-7	Anthracene	1500		510	49
1912-24-9	Atrazine	23	U	210	23
100-52-7	Benzaldehyde	39	U	510	39
56-55-3	Benzo[a]anthracene	360		51	43

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: z0892.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:46

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0384(g) | Date Analyzed: 05/05/2015 16:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	290		51	15
205-99-2	Benzo[b]fluoranthene	310		51	20
191-24-2	Benzo[g,h,i]perylene	250	J	510	29
207-08-9	Benzo[k]fluoranthene	68		51	22
111-91-1	Bis(2-chloroethoxy)methane	16	U	510	16
111-44-4	Bis(2-chloroethyl)ether	12	U	51	12
117-81-7	Bis(2-ethylhexyl) phthalate	21	J	510	20
85-68-7	Butyl benzyl phthalate	16	U	510	16
105-60-2	Caprolactam	37	U	510	37
86-74-8	Carbazole	13	U	510	13
218-01-9	Chrysene	370	J	510	14
53-70-3	Dibenz(a,h)anthracene	27	J	51	27
132-64-9	Dibenzofuran	240	J	510	15
84-66-2	Diethyl phthalate	15	U	510	15
131-11-3	Dimethyl phthalate	15	U	510	15
84-74-2	Di-n-butyl phthalate	15	U	510	15
117-84-0	Di-n-octyl phthalate	26	U	510	26
206-44-0	Fluoranthene	2700		510	15
86-73-7	Fluorene	600		510	11
118-74-1	Hexachlorobenzene	21	U	51	21
87-68-3	Hexachlorobutadiene	14	U	100	14
77-47-4	Hexachlorocyclopentadiene	32	U	510	32
67-72-1	Hexachloroethane	19	U	51	19
193-39-5	Indeno[1,2,3-cd]pyrene	200		51	34
78-59-1	Isophorone	11	U	210	11
91-20-3	Naphthalene	6700		510	13
98-95-3	Nitrobenzene	16	U	51	16
621-64-7	N-Nitrosodi-n-propylamine	17	U	51	17
86-30-6	N-Nitrosodiphenylamine	46	U	510	46
87-86-5	Pentachlorophenol	62	U	410	62
85-01-8	Phenanthrene	2800		510	14
108-95-2	Phenol	180	J	510	17
129-00-0	Pyrene	2900		510	23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: z0892.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:46

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0384(g) | Date Analyzed: 05/05/2015 16:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	79		10-120
321-60-8	2-Fluorobiphenyl	79		40-109
367-12-4	2-Fluorophenol (Surr)	62		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	65		38-105
4165-62-2	Phenol-d5 (Surr)	63		41-118
1718-51-0	Terphenyl-d14 (Surr)	56		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: z0892.D

Analysis Method: 8270D | Date Collected: 04/30/2015 13:46

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0384(g) | Date Analyzed: 05/05/2015 16:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 24870

CAS NO.	COMPOUND NAME	RT	RESULT	Q
590-90-9	2-Butanone, 4-hydroxy-	2.23	800	J N
79-34-5	Ethane, 1,1,2,2-tetrachloro-	3.36	3400	J N
95-50-1	Benzene, 1,2-dichloro-	4.34	950	J N
95-13-6	Indene	4.43	1100	J N
275-51-4	Azulene	5.28	660	J N
90-12-0	Naphthalene, 1-methyl-	6.29	900	J N
939-27-5	Naphthalene, 2-ethyl-	6.76	670	J N
259-79-0	Biphenylene	6.82	1500	J N
581-40-8	Naphthalene, 2,3-dimethyl-	6.89	970	J N
827-54-3	Naphthalene, 2-ethenyl-	6.96	700	J N
581-40-8	Naphthalene, 2,3-dimethyl-	7.01	1400	J N
829-26-5	Naphthalene, 2,3,6-trimethyl-	7.36	700	J N
13798-23-7	Sulfur	7.48	670	J N
643-58-3	1,1'-Biphenyl, 2-methyl-	7.82	1000	J N
1730-37-6	9H-Fluorene, 1-methyl-	8.31	1200	J N
15964-80-4	Benzeneacetic acid, 4-hydroxy-3-methoxy-	8.33	980	J N
17233-71-5	Hexathiepane	8.53	1200	J N
2531-84-2	Phenanthrene, 2-methyl-	9.19	870	J N
203-64-5	4H-Cyclopenta[def]phenanthrene	9.29	2400	J N
723-98-8	1H-Cyclopenta[l]phenanthrene, 2,3-dihydr	12.09	2800	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: z0877.D

Analysis Method: 8270D | Date Collected: 04/30/2015 16:51

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0236(g) | Date Analyzed: 05/05/2015 09:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	36	U	420	36
95-94-3	1,2,4,5-Tetrachlorobenzene	31	U	420	31
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	420	17
58-90-2	2,3,4,6-Tetrachlorophenol	40	U	420	40
95-95-4	2,4,5-Trichlorophenol	42	U	420	42
88-06-2	2,4,6-Trichlorophenol	12	U	170	12
120-83-2	2,4-Dichlorophenol	9.9	U	170	9.9
105-67-9	2,4-Dimethylphenol	93	U	420	93
51-28-5	2,4-Dinitrophenol	320	U	340	320
121-14-2	2,4-Dinitrotoluene	17	U	85	17
606-20-2	2,6-Dinitrotoluene	22	U	85	22
91-58-7	2-Chloronaphthalene	9.6	U	420	9.6
95-57-8	2-Chlorophenol	11	U	420	11
91-57-6	2-Methylnaphthalene	9.3	U	420	9.3
95-48-7	2-Methylphenol	18	U	420	18
88-74-4	2-Nitroaniline	14	U	420	14
88-75-5	2-Nitrophenol	14	U	420	14
91-94-1	3,3'-Dichlorobenzidine	47	U	170	47
99-09-2	3-Nitroaniline	12	U	420	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	340	110
101-55-3	4-Bromophenyl phenyl ether	13	U	420	13
59-50-7	4-Chloro-3-methylphenol	18	U	420	18
106-47-8	4-Chloroaniline	11	U	420	11
7005-72-3	4-Chlorophenyl phenyl ether	13	U	420	13
106-44-5	4-Methylphenol	11	U	420	11
100-01-6	4-Nitroaniline	16	U	420	16
100-02-7	4-Nitrophenol	200	U	850	200
83-32-9	Acenaphthene	10	U	420	10
208-96-8	Acenaphthylene	11	U	420	11
98-86-2	Acetophenone	9.2	U	420	9.2
120-12-7	Anthracene	40	U	420	40
1912-24-9	Atrazine	19	U	170	19
100-52-7	Benzaldehyde	32	U	420	32
56-55-3	Benzo[a]anthracene	35	U	42	35

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: z0877.D

Analysis Method: 8270D | Date Collected: 04/30/2015 16:51

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0236(g) | Date Analyzed: 05/05/2015 09:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	13	U	42	13
205-99-2	Benzo[b]fluoranthene	16	U	42	16
191-24-2	Benzo[g,h,i]perylene	24	U	420	24
207-08-9	Benzo[k]fluoranthene	18	U	42	18
111-91-1	Bis(2-chloroethoxy)methane	13	U	420	13
111-44-4	Bis(2-chloroethyl)ether	9.9	U	42	9.9
117-81-7	Bis(2-ethylhexyl) phthalate	70	J	420	16
85-68-7	Butyl benzyl phthalate	13	U	420	13
105-60-2	Caprolactam	30	U	420	30
86-74-8	Carbazole	10	U	420	10
218-01-9	Chrysene	11	U	420	11
53-70-3	Dibenz(a,h)anthracene	22	U	42	22
132-64-9	Dibenzofuran	13	U	420	13
84-66-2	Diethyl phthalate	12	U	420	12
131-11-3	Dimethyl phthalate	12	U	420	12
84-74-2	Di-n-butyl phthalate	13	U	420	13
117-84-0	Di-n-octyl phthalate	21	U	420	21
206-44-0	Fluoranthene	12	U	420	12
86-73-7	Fluorene	9.2	U	420	9.2
118-74-1	Hexachlorobenzene	17	U	42	17
87-68-3	Hexachlorobutadiene	12	U	85	12
77-47-4	Hexachlorocyclopentadiene	26	U	420	26
67-72-1	Hexachloroethane	15	U	42	15
193-39-5	Indeno[1,2,3-cd]pyrene	28	U	42	28
78-59-1	Isophorone	9.0	U	170	9.0
91-20-3	Naphthalene	11	U	420	11
98-95-3	Nitrobenzene	13	U	42	13
621-64-7	N-Nitrosodi-n-propylamine	14	U	42	14
86-30-6	N-Nitrosodiphenylamine	38	U	420	38
87-86-5	Pentachlorophenol	51	U	340	51
85-01-8	Phenanthrene	11	U	420	11
108-95-2	Phenol	14	U	420	14
129-00-0	Pyrene	19	U	420	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: z0877.D

Analysis Method: 8270D | Date Collected: 04/30/2015 16:51

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0236(g) | Date Analyzed: 05/05/2015 09:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	80		10-120
321-60-8	2-Fluorobiphenyl	60		40-109
367-12-4	2-Fluorophenol (Surr)	52		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	56		38-105
4165-62-2	Phenol-d5 (Surr)	55		41-118
1718-51-0	Terphenyl-d14 (Surr)	70		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: z0877.D

Analysis Method: 8270D | Date Collected: 04/30/2015 16:51

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0236(g) | Date Analyzed: 05/05/2015 09:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: z0878.D

Analysis Method: 8270D | Date Collected: 04/30/2015 00:00

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0127(g) | Date Analyzed: 05/05/2015 09:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	36	U	430	36
95-94-3	1,2,4,5-Tetrachlorobenzene	32	U	430	32
108-60-1	2,2'-oxybis[1-chloropropane]	18	U	430	18
58-90-2	2,3,4,6-Tetrachlorophenol	40	U	430	40
95-95-4	2,4,5-Trichlorophenol	42	U	430	42
88-06-2	2,4,6-Trichlorophenol	12	U	170	12
120-83-2	2,4-Dichlorophenol	10	U	170	10
105-67-9	2,4-Dimethylphenol	94	U	430	94
51-28-5	2,4-Dinitrophenol	320	U	340	320
121-14-2	2,4-Dinitrotoluene	17	U	87	17
606-20-2	2,6-Dinitrotoluene	23	U	87	23
91-58-7	2-Chloronaphthalene	9.7	U	430	9.7
95-57-8	2-Chlorophenol	11	U	430	11
91-57-6	2-Methylnaphthalene	9.4	U	430	9.4
95-48-7	2-Methylphenol	19	U	430	19
88-74-4	2-Nitroaniline	14	U	430	14
88-75-5	2-Nitrophenol	14	U	430	14
91-94-1	3,3'-Dichlorobenzidine	48	U	170	48
99-09-2	3-Nitroaniline	13	U	430	13
534-52-1	4,6-Dinitro-2-methylphenol	110	U	340	110
101-55-3	4-Bromophenyl phenyl ether	13	U	430	13
59-50-7	4-Chloro-3-methylphenol	18	U	430	18
106-47-8	4-Chloroaniline	11	U	430	11
7005-72-3	4-Chlorophenyl phenyl ether	13	U	430	13
106-44-5	4-Methylphenol	12	U	430	12
100-01-6	4-Nitroaniline	16	U	430	16
100-02-7	4-Nitrophenol	210	U	870	210
83-32-9	Acenaphthene	10	U	430	10
208-96-8	Acenaphthylene	11	U	430	11
98-86-2	Acetophenone	9.3	U	430	9.3
120-12-7	Anthracene	41	U	430	41
1912-24-9	Atrazine	19	U	170	19
100-52-7	Benzaldehyde	33	U	430	33
56-55-3	Benzo[a]anthracene	36	U	43	36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: z0878.D

Analysis Method: 8270D | Date Collected: 04/30/2015 00:00

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0127(g) | Date Analyzed: 05/05/2015 09:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	13	U	43	13
205-99-2	Benzo[b]fluoranthene	17	U	43	17
191-24-2	Benzo[g,h,i]perylene	25	U	430	25
207-08-9	Benzo[k]fluoranthene	19	U	43	19
111-91-1	Bis(2-chloroethoxy)methane	13	U	430	13
111-44-4	Bis(2-chloroethyl)ether	10	U	43	10
117-81-7	Bis(2-ethylhexyl) phthalate	17	U	430	17
85-68-7	Butyl benzyl phthalate	13	U	430	13
105-60-2	Caprolactam	31	U	430	31
86-74-8	Carbazole	11	U	430	11
218-01-9	Chrysene	12	U	430	12
53-70-3	Dibenz(a,h)anthracene	22	U	43	22
132-64-9	Dibenzofuran	13	U	430	13
84-66-2	Diethyl phthalate	12	U	430	12
131-11-3	Dimethyl phthalate	12	U	430	12
84-74-2	Di-n-butyl phthalate	13	U	430	13
117-84-0	Di-n-octyl phthalate	22	U	430	22
206-44-0	Fluoranthene	13	U	430	13
86-73-7	Fluorene	9.3	U	430	9.3
118-74-1	Hexachlorobenzene	17	U	43	17
87-68-3	Hexachlorobutadiene	12	U	87	12
77-47-4	Hexachlorocyclopentadiene	27	U	430	27
67-72-1	Hexachloroethane	16	U	43	16
193-39-5	Indeno[1,2,3-cd]pyrene	28	U	43	28
78-59-1	Isophorone	9.2	U	170	9.2
91-20-3	Naphthalene	11	U	430	11
98-95-3	Nitrobenzene	13	U	43	13
621-64-7	N-Nitrosodi-n-propylamine	14	U	43	14
86-30-6	N-Nitrosodiphenylamine	39	U	430	39
87-86-5	Pentachlorophenol	52	U	340	52
85-01-8	Phenanthrene	11	U	430	11
108-95-2	Phenol	14	U	430	14
129-00-0	Pyrene	19	U	430	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: z0878.D

Analysis Method: 8270D | Date Collected: 04/30/2015 00:00

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0127(g) | Date Analyzed: 05/05/2015 09:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	69		10-120
321-60-8	2-Fluorobiphenyl	56		40-109
367-12-4	2-Fluorophenol (Surr)	49		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	53		38-105
4165-62-2	Phenol-d5 (Surr)	52		41-118
1718-51-0	Terphenyl-d14 (Surr)	66		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: z0878.D

Analysis Method: 8270D | Date Collected: 04/30/2015 00:00

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0127(g) | Date Analyzed: 05/05/2015 09:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: L121247.D

Analysis Method: 8270D | Date Collected: 05/01/2015 11:42

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0268(g) | Date Analyzed: 05/06/2015 12:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296669 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
92-52-4	1,1'-Biphenyl	43	J	420	36	
95-94-3	1,2,4,5-Tetrachlorobenzene	32	UJ F1	420	32	ms
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	420	17	
58-90-2	2,3,4,6-Tetrachlorophenol	40	UJ F1	420	40	ms
95-95-4	2,4,5-Trichlorophenol	42	UJ F1	420	42	ms
88-06-2	2,4,6-Trichlorophenol	12	UJ F1	170	12	ms
120-83-2	2,4-Dichlorophenol	10	UJ F1	170	10	ms
105-67-9	2,4-Dimethylphenol	93	U	420	93	
~~51-28-5~~	~~2,4-Dinitrophenol~~	~~320~~	~~U F1~~ R	~~340~~	~~320~~	MSR<10'
121-14-2	2,4-Dinitrotoluene	17	U	86	17	
606-20-2	2,6-Dinitrotoluene	23	U	86	23	
91-58-7	2-Chloronaphthalene	9.6	U	420	9.6	
95-57-8	2-Chlorophenol	11	U	420	11	
91-57-6	2-Methylnaphthalene	850		420	9.4	
95-48-7	2-Methylphenol	18	U	420	18	
88-74-4	2-Nitroaniline	14	U	420	14	
88-75-5	2-Nitrophenol	14	UJ F1	420	14	ms
91-94-1	3,3'-Dichlorobenzidine	47	U	170	47	
99-09-2	3-Nitroaniline	13	U	420	13	
534-52-1	4,6-Dinitro-2-methylphenol	110	U F2	340	110	
101-55-3	4-Bromophenyl phenyl ether	13	U	420	13	
59-50-7	4-Chloro-3-methylphenol	18	U	420	18	
106-47-8	4-Chloroaniline	11	U	420	11	
7005-72-3	4-Chlorophenyl phenyl ether	13	U	420	13	
106-44-5	4-Methylphenol	12	U	420	12	
100-01-6	4-Nitroaniline	16	U	420	16	
100-02-7	4-Nitrophenol	200	U	860	200	
83-32-9	Acenaphthene	91	J	420	10	
208-96-8	Acenaphthylene	11	U	420	11	
98-86-2	Acetophenone	9.2	U	420	9.2	
120-12-7	Anthracene	78	J	420	40	
1912-24-9	Atrazine	19	U	170	19	
100-52-7	Benzaldehyde	32	U	420	32	
56-55-3	Benzo[a]anthracene	100		42	35	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: L121247.D

Analysis Method: 8270D | Date Collected: 05/01/2015 11:42

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0268(g) | Date Analyzed: 05/06/2015 12:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296669 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	
50-32-8	Benzo[a]pyrene	77		42	13	
205-99-2	Benzo[b]fluoranthene	140		42	17	
191-24-2	Benzo[g,h,i]perylene	71	J	420	24	
207-08-9	Benzo[k]fluoranthene	44		42	18	
111-91-1	Bis(2-chloroethoxy)methane	13	U	420	13	
111-44-4	Bis(2-chloroethyl)ether	10	U	42	10	
117-81-7	Bis(2-ethylhexyl) phthalate	150	J	420	17	
85-68-7	Butyl benzyl phthalate	13	U	420	13	
105-60-2	Caprolactam	31	U	420	31	
86-74-8	Carbazole	11	U	420	11	
218-01-9	Chrysene	120	J	420	12	
53-70-3	Dibenz(a,h)anthracene	22	U	42	22	
132-64-9	Dibenzofuran	13	U	420	13	
84-66-2	Diethyl phthalate	12	U	420	12	
131-11-3	Dimethyl phthalate	12	U	420	12	
84-74-2	Di-n-butyl phthalate	13	U	420	13	
117-84-0	Di-n-octyl phthalate	22	U	420	22	
206-44-0	Fluoranthene	200	J	420	13	
86-73-7	Fluorene	150	J	420	9.2	
118-74-1	Hexachlorobenzene	17	U	42	17	
87-68-3	Hexachlorobutadiene	12	U	86	12	
77-47-4	Hexachlorocyclopentadiene	26	UJP1	420	26	ms
67-72-1	Hexachloroethane	16	U	42	16	
193-39-5	Indeno[1,2,3-cd]pyrene	68		42	28	
78-59-1	Isophorone	9.1	U	170	9.1	
91-20-3	Naphthalene	470		420	11	
98-95-3	Nitrobenzene	13	U	42	13	
621-64-7	N-Nitrosodi-n-propylamine	14	U	42	14	
86-30-6	N-Nitrosodiphenylamine	39	U	420	39	
87-86-5	Pentachlorophenol	51	U	340	51	
85-01-8	Phenanthrene	190	J	420	11	
108-95-2	Phenol	14	U	420	14	
129-00-0	Pyrene	68	J	420	19	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: L121247.D

Analysis Method: 8270D | Date Collected: 05/01/2015 11:42

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0268(g) | Date Analyzed: 05/06/2015 12:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296669 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	37		10-120
321-60-8	2-Fluorobiphenyl	56		40-109
367-12-4	2-Fluorophenol (Surr)	53		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	57		38-105
4165-62-2	Phenol-d5 (Surr)	58		41-118
1718-51-0	Terphenyl-d14 (Surr)	70		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: L121247.D

Analysis Method: 8270D | Date Collected: 05/01/2015 11:42

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0268(g) | Date Analyzed: 05/06/2015 12:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296669 | Units: ug/Kg

Number TICs Found: 20 | TIC Result Total: 34330

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Unknown	6.02	1600	J
31295-56-4	Dodecane, 2,6,11-trimethyl-	6.62	1600	J N
	Unknown	7.02	1800	J
3891-98-3	Dodecane, 2,6,10-trimethyl-	7.08	3700	J N
1127-76-0	Naphthalene, 1-ethyl-	7.18	950	J N
	Unknown	7.23	1300	J
2027-17-0	Naphthalene, 2-(1-methylethyl)-	7.42	980	J N
2131-42-2	Naphthalene, 1,4,6-trimethyl-	7.56	1100	J N
	Unknown	7.60	1100	J
2245-38-7	Naphthalene, 1,6,7-trimethyl-	7.63	1100	J N
2245-38-7	Naphthalene, 1,6,7-trimethyl-	7.72	1900	J N
55045-11-9	Tridecane, 5-propyl-	7.99	1700	J N
	Unknown	8.10	2600	J
	Unknown	8.13	1800	J
	Unknown	8.22	1400	J
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.26	3900	J N
529-05-5	Azulene, 7-ethyl-1,4-dimethyl-	8.29	1300	J N
	Unknown	8.39	1500	J
529-05-5	Azulene, 7-ethyl-1,4-dimethyl-	8.53	1500	J N
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	8.72	1500	J N

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: z0879.D

Analysis Method: 8270D | Date Collected: 05/01/2015 15:15

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0256(g) | Date Analyzed: 05/05/2015 10:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	35	U	410	35
95-94-3	1,2,4,5-Tetrachlorobenzene	30	U	410	30
108-60-1	2,2'-oxybis[1-chloropropane]	17	U	410	17
58-90-2	2,3,4,6-Tetrachlorophenol	38	U	410	38
95-95-4	2,4,5-Trichlorophenol	41	U	410	41
88-06-2	2,4,6-Trichlorophenol	12	U	160	12
120-83-2	2,4-Dichlorophenol	9.6	U	160	9.6
105-67-9	2,4-Dimethylphenol	90	U	410	90
51-28-5	2,4-Dinitrophenol	310	U	330	310
121-14-2	2,4-Dinitrotoluene	16	U	83	16
606-20-2	2,6-Dinitrotoluene	22	U	83	22
91-58-7	2-Chloronaphthalene	9.3	U	410	9.3
95-57-8	2-Chlorophenol	10	U	410	10
91-57-6	2-Methylnaphthalene	9.0	U	410	9.0
95-48-7	2-Methylphenol	18	U	410	18
88-74-4	2-Nitroaniline	13	U	410	13
88-75-5	2-Nitrophenol	14	U	410	14
91-94-1	3,3'-Dichlorobenzidine	46	U	160	46
99-09-2	3-Nitroaniline	12	U	410	12
534-52-1	4,6-Dinitro-2-methylphenol	110	U	330	110
101-55-3	4-Bromophenyl phenyl ether	13	U	410	13
59-50-7	4-Chloro-3-methylphenol	18	U	410	18
106-47-8	4-Chloroaniline	11	U	410	11
7005-72-3	4-Chlorophenyl phenyl ether	12	U	410	12
106-44-5	4-Methylphenol	11	U	410	11
100-01-6	4-Nitroaniline	15	U	410	15
100-02-7	4-Nitrophenol	200	U	830	200
83-32-9	Acenaphthene	9.9	U	410	9.9
208-96-8	Acenaphthylene	11	U	410	11
98-86-2	Acetophenone	8.9	U	410	8.9
120-12-7	Anthracene	39	U	410	39
1912-24-9	Atrazine	18	U	160	18
100-52-7	Benzaldehyde	31	U	410	31
56-55-3	Benzo[a]anthracene	34	U	41	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: z0879.D

Analysis Method: 8270D | Date Collected: 05/01/2015 15:15

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0256(g) | Date Analyzed: 05/05/2015 10:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	12	U	41	12
205-99-2	Benzo[b]fluoranthene	16	U	41	16
191-24-2	Benzo[g,h,i]perylene	23	U	410	23
207-08-9	Benzo[k]fluoranthene	18	U	41	18
111-91-1	Bis(2-chloroethoxy)methane	13	U	410	13
111-44-4	Bis(2-chloroethyl)ether	9.6	U	41	9.6
117-81-7	Bis(2-ethylhexyl) phthalate	16	U	410	16
85-68-7	Butyl benzyl phthalate	13	U	410	13
105-60-2	Caprolactam	29	U	410	29
86-74-8	Carbazole	10	U	410	10
218-01-9	Chrysene	11	U	410	11
53-70-3	Dibenz(a,h)anthracene	21	U	41	21
132-64-9	Dibenzofuran	12	U	410	12
84-66-2	Diethyl phthalate	12	U	410	12
131-11-3	Dimethyl phthalate	12	U	410	12
84-74-2	Di-n-butyl phthalate	12	U	410	12
117-84-0	Di-n-octyl phthalate	21	U	410	21
206-44-0	Fluoranthene	12	U	410	12
86-73-7	Fluorene	8.9	U	410	8.9
118-74-1	Hexachlorobenzene	17	U	41	17
87-68-3	Hexachlorobutadiene	11	U	83	11
77-47-4	Hexachlorocyclopentadiene	25	U	410	25
67-72-1	Hexachloroethane	15	U	41	15
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	41	27
78-59-1	Isophorone	8.8	U	160	8.8
91-20-3	Naphthalene	10	U	410	10
98-95-3	Nitrobenzene	13	U	41	13
621-64-7	N-Nitrosodi-n-propylamine	14	U	41	14
86-30-6	N-Nitrosodiphenylamine	37	U	410	37
87-86-5	Pentachlorophenol	49	U	330	49
85-01-8	Phenanthrene	11	U	410	11
108-95-2	Phenol	13	U	410	13
129-00-0	Pyrene	19	U	410	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: z0879.D

Analysis Method: 8270D | Date Collected: 05/01/2015 15:15

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0256(g) | Date Analyzed: 05/05/2015 10:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	68		10-120
321-60-8	2-Fluorobiphenyl	54		40-109
367-12-4	2-Fluorophenol (Surr)	47		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	51		38-105
4165-62-2	Phenol-d5 (Surr)	48		41-118
1718-51-0	Terphenyl-d14 (Surr)	64		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: z0879.D

Analysis Method: 8270D | Date Collected: 05/01/2015 15:15

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0256(g) | Date Analyzed: 05/05/2015 10:15

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: z0880.D

Analysis Method: 8270D | Date Collected: 05/01/2015 14:54

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0362(g) | Date Analyzed: 05/05/2015 10:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	33	U	390	33
95-94-3	1,2,4,5-Tetrachlorobenzene	29	U	390	29
108-60-1	2,2'-oxybis[1-chloropropane]	16	U	390	16
58-90-2	2,3,4,6-Tetrachlorophenol	36	U	390	36
95-95-4	2,4,5-Trichlorophenol	38	U	390	38
88-06-2	2,4,6-Trichlorophenol	11	U	160	11
120-83-2	2,4-Dichlorophenol	9.1	U	160	9.1
105-67-9	2,4-Dimethylphenol	85	U	390	85
51-28-5	2,4-Dinitrophenol	290	U	310	290
121-14-2	2,4-Dinitrotoluene	15	U	78	15
606-20-2	2,6-Dinitrotoluene	21	U	78	21
91-58-7	2-Chloronaphthalene	8.8	U	390	8.8
95-57-8	2-Chlorophenol	9.8	U	390	9.8
91-57-6	2-Methylnaphthalene	140	J	390	8.5
95-48-7	2-Methylphenol	17	U	390	17
88-74-4	2-Nitroaniline	13	U	390	13
88-75-5	2-Nitrophenol	13	U	390	13
91-94-1	3,3'-Dichlorobenzidine	43	U	160	43
99-09-2	3-Nitroaniline	11	U	390	11
534-52-1	4,6-Dinitro-2-methylphenol	100	U	310	100
101-55-3	4-Bromophenyl phenyl ether	12	U	390	12
59-50-7	4-Chloro-3-methylphenol	17	U	390	17
106-47-8	4-Chloroaniline	9.9	U	390	9.9
7005-72-3	4-Chlorophenyl phenyl ether	12	U	390	12
106-44-5	4-Methylphenol	11	U	390	11
100-01-6	4-Nitroaniline	15	U	390	15
100-02-7	4-Nitrophenol	190	U	780	190
83-32-9	Acenaphthene	150	J	390	9.4
208-96-8	Acenaphthylene	9.9	U	390	9.9
98-86-2	Acetophenone	8.4	U	390	8.4
120-12-7	Anthracene	37	J	390	37
1912-24-9	Atrazine	17	U	160	17
100-52-7	Benzaldehyde	29	U	390	29
56-55-3	Benzo[a]anthracene	32	U	39	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: z0880.D

Analysis Method: 8270D | Date Collected: 05/01/2015 14:54

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0362(g) | Date Analyzed: 05/05/2015 10:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	12	U	39	12
205-99-2	Benzo[b]fluoranthene	15	U	39	15
191-24-2	Benzo[g,h,i]perylene	22	U	390	22
207-08-9	Benzo[k]fluoranthene	17	U	39	17
111-91-1	Bis(2-chloroethoxy)methane	12	U	390	12
111-44-4	Bis(2-chloroethyl)ether	9.1	U	39	9.1
117-81-7	Bis(2-ethylhexyl) phthalate	15	U	390	15
85-68-7	Butyl benzyl phthalate	12	U	390	12
105-60-2	Caprolactam	28	U	390	28
86-74-8	Carbazole	15	J	390	9.6
218-01-9	Chrysene	11	U	390	11
53-70-3	Dibenz(a,h)anthracene	20	U	39	20
132-64-9	Dibenzofuran	64	J	390	12
84-66-2	Diethyl phthalate	11	U	390	11
131-11-3	Dimethyl phthalate	11	U	390	11
84-74-2	Di-n-butyl phthalate	12	U	390	12
117-84-0	Di-n-octyl phthalate	20	U	390	20
206-44-0	Fluoranthene	130	J	390	11
86-73-7	Fluorene	120	J	390	8.4
118-74-1	Hexachlorobenzene	16	U	39	16
87-68-3	Hexachlorobutadiene	11	U	78	11
77-47-4	Hexachlorocyclopentadiene	24	U	390	24
67-72-1	Hexachloroethane	14	U	39	14
193-39-5	Indeno[1,2,3-cd]pyrene	26	U	39	26
78-59-1	Isophorone	8.3	U	160	8.3
91-20-3	Naphthalene	230	J	390	9.8
98-95-3	Nitrobenzene	12	U	39	12
621-64-7	N-Nitrosodi-n-propylamine	13	U	39	13
86-30-6	N-Nitrosodiphenylamine	35	U	390	35
87-86-5	Pentachlorophenol	47	U	310	47
85-01-8	Phenanthrene	440		390	10
108-95-2	Phenol	13	U	390	13
129-00-0	Pyrene	94	J	390	18

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: z0880.D

Analysis Method: 8270D | Date Collected: 05/01/2015 14:54

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0362(g) | Date Analyzed: 05/05/2015 10:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	89		10-120
321-60-8	2-Fluorobiphenyl	73		40-109
367-12-4	2-Fluorophenol (Surr)	62		37-125
4165-60-0	Nitrobenzene-d5 (Surr)	65		38-105
4165-62-2	Phenol-d5 (Surr)	60		41-118
1718-51-0	Terphenyl-d14 (Surr)	85		16-151

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: z0880.D

Analysis Method: 8270D | Date Collected: 05/01/2015 14:54

Extract. Method: 3546 | Date Extracted: 05/04/2015 09:28

Sample wt/vol: 15.0362(g) | Date Analyzed: 05/05/2015 10:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296364 | Units: ug/Kg

Number TICs Found: 0 | TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I-TIC 8270D

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) Lab Sample ID: 460-94062-1

Matrix: Solid Lab File ID: VF014984.D

Analysis Method: 8015D Date Collected: 04/29/2015 15:09

Sample wt/vol: 8.025(g) Date Analyzed: 05/01/2015 11:20

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.6 Level: (low/med) Medium

Analysis Batch No.: 295806 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1900	U	1900	1900

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	89		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) Lab Sample ID: 460-94062-2

Matrix: Solid Lab File ID: VF015010.D

Analysis Method: 8015D Date Collected: 04/29/2015 15:14

Sample wt/vol: 4.484(g) Date Analyzed: 05/01/2015 22:03

Soil Aliquot Vol: 5 (mL) Dilution Factor: 1000

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 43.9 Level: (low/med) Medium

Analysis Batch No.: 295806 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	910000		99000	99000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	X D	70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) Lab Sample ID: 460-94062-3

Matrix: Solid Lab File ID: VF014982.D

Analysis Method: 8015D Date Collected: 04/29/2015 17:28

Sample wt/vol: 9.336(g) Date Analyzed: 05/01/2015 10:29

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 26.6 Level: (low/med) Medium

Analysis Batch No.: 295806 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1800	U	1800	1800

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	118		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) Lab Sample ID: 460-94062-4

Matrix: Solid Lab File ID: VF014983.D

Analysis Method: 8015D Date Collected: 04/29/2015 17:09

Sample wt/vol: 9.643(g) Date Analyzed: 05/01/2015 10:54

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.2 Level: (low/med) Medium

Analysis Batch No.: 295806 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	1600	U	1600	1600

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	100		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: VF015028.D

Analysis Method: 8015D | Date Collected: 04/30/2015 13:28

Sample wt/vol: 3.868(g) | Date Analyzed: 05/02/2015 21:53

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 63.5 | Level: (low/med) Medium

Analysis Batch No.: 296088 | Units: ug/Kg

% solids < 50%.

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	42000		8900	8900

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	94	J	70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) Lab Sample ID: 460-94148-2

Matrix: Solid Lab File ID: VF015085.D

Analysis Method: 8015D Date Collected: 04/30/2015 13:46

Sample wt/vol: 3.262(g) Date Analyzed: 05/04/2015 17:29

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 35.6 Level: (low/med) Medium

Analysis Batch No.: 296202 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	6000	U	6000	6000

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	98		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: VF015030.D

Analysis Method: 8015D | Date Collected: 04/30/2015 16:51

Sample wt/vol: 6.984(g) | Date Analyzed: 05/02/2015 22:43

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 21.6 | Level: (low/med) Medium

Analysis Batch No.: 296088 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	2300	U	2300	2300

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	118		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1
SDG No.: 94062, 94148
Client Sample ID: DUP-01 Lab Sample ID: 460-94148-4
Matrix: Solid Lab File ID: VF015033.D
Analysis Method: 8015D Date Collected: 04/30/2015 00:00
Sample wt/vol: 5.022(g) Date Analyzed: 05/02/2015 23:59
Soil Aliquot Vol: 5 (mL) Dilution Factor: 50
Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)
% Moisture: 22.6 Level: (low/med) Medium
Analysis Batch No.: 296088 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	3200	U	3200	3200

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	119		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) Lab Sample ID: 460-94148-5

Matrix: Solid Lab File ID: VF015034.D

Analysis Method: 8015D Date Collected: 05/01/2015 11:42

Sample wt/vol: 4.881(g) Date Analyzed: 05/03/2015 00:24

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 22.3 Level: (low/med) Medium

Analysis Batch No.: 296088 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	16000		3300	3300

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	121		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) Lab Sample ID: 460-94148-6

Matrix: Solid Lab File ID: VF015037.D

Analysis Method: 8015D Date Collected: 05/01/2015 15:15

Sample wt/vol: 6.641(g) Date Analyzed: 05/03/2015 01:40

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 10(mL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.3 Level: (low/med) Medium

Analysis Batch No.: 296088 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	2300	U	2300	2300

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	112		70-130

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) | Lab Sample ID: 460-94148-7

Matrix: Solid | Lab File ID: VF015038.D

Analysis Method: 8015D | Date Collected: 05/01/2015 14:54

Sample wt/vol: 5.834(g) | Date Analyzed: 05/03/2015 02:05

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 50

Soil Extract Vol.: 10(mL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 14.7 | Level: (low/med) Medium

Analysis Batch No.: 296088 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
STL00215	GRO	4400		2500	2500

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	109		70-130

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (10-11) | Lab Sample ID: 460-94062-1

Matrix: Solid | Lab File ID: GC2F3779.D

Analysis Method: 8015D | Date Collected: 04/29/2015 15:09

Extraction Method: 3546 | Date Extracted: 05/01/2015 08:05

Sample wt/vol: 15.0274(g) | Date Analyzed: 05/04/2015 13:49

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	96		11	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (18-20) | Lab Sample ID: 460-94062-2

Matrix: Solid | Lab File ID: GC2F3780.D

Analysis Method: 8015D | Date Collected: 04/29/2015 15:14

Extraction Method: 3546 | Date Extracted: 05/01/2015 08:05

Sample wt/vol: 15.0385(g) | Date Analyzed: 05/04/2015 14:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 43.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	3200		310	39

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (50-55) | Lab Sample ID: 460-94062-3

Matrix: Solid | Lab File ID: GC2F3781.D

Analysis Method: 8015D | Date Collected: 04/29/2015 17:28

Extraction Method: 3546 | Date Extracted: 05/01/2015 08:05

Sample wt/vol: 15.0452(g) | Date Analyzed: 05/04/2015 14:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 26.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	19		12	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-45 (45-48) | Lab Sample ID: 460-94062-4

Matrix: Solid | Lab File ID: GC2F3782.D

Analysis Method: 8015D | Date Collected: 04/29/2015 17:09

Extraction Method: 3546 | Date Extracted: 05/01/2015 08:05

Sample wt/vol: 15.0371(g) | Date Analyzed: 05/04/2015 14:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	17		11	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (10-14) | Lab Sample ID: 460-94148-1

Matrix: Solid | Lab File ID: 3F007479.D

Analysis Method: 8015D | Date Collected: 04/30/2015 13:28

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0281(g) | Date Analyzed: 05/06/2015 09:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 50

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 63.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296707 | Units: mg/Kg

% solids < 50%

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	7900	J	1200	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	X D	45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (17-19) | Lab Sample ID: 460-94148-2

Matrix: Solid | Lab File ID: 3F007461.D

Analysis Method: 8015D | Date Collected: 04/30/2015 13:46

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0444(g) | Date Analyzed: 05/05/2015 13:50

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	270		13	1.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	104		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-47 (45-50) | Lab Sample ID: 460-94148-3

Matrix: Solid | Lab File ID: 3F007462.D

Analysis Method: 8015D | Date Collected: 04/30/2015 16:51

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0323(g) | Date Analyzed: 05/05/2015 14:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 21.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	50		11	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	70		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Matrix: Solid | Lab File ID: 3F007463.D

Analysis Method: 8015D | Date Collected: 04/30/2015 00:00

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0114(g) | Date Analyzed: 05/05/2015 14:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	34		11	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (11-15) | Lab Sample ID: 460-94148-5

Matrix: Solid | Lab File ID: 3F007443.D

Analysis Method: 8015D | Date Collected: 05/01/2015 11:42

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0512(g) | Date Analyzed: 05/05/2015 09:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 22.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	550	~~F1~~ J-	56	7.1

ms.

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (45-50) | Lab Sample ID: 460-94148-6

Matrix: Solid | Lab File ID: 3F007464.D

Analysis Method: 8015D | Date Collected: 05/01/2015 15:15

Extraction Method: 3546 | Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0524(g) | Date Analyzed: 05/05/2015 14:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 19.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	26		11	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		45-132

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: SB-46 (40-43) Lab Sample ID: 460-94148-7

Matrix: Solid Lab File ID: 3F007465.D

Analysis Method: 8015D Date Collected: 05/01/2015 14:54

Extraction Method: 3546 Date Extracted: 05/04/2015 13:22

Sample wt/vol: 15.0334(g) Date Analyzed: 05/05/2015 14:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: Rtx-5MS ID: 0.25(mm)

% Moisture: 14.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 296396 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00816	C10-C44	22		10	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		45-132

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-45 (10-11)
Lab Sample ID: 460-94062-1
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/29/2015 15:09
Reporting Basis: DRY
Date Received: 04/30/2015 16:10
% Solids: 80.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.43	2.2	0.43	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	7870	44.4	24.5	mg/Kg			4	6010C	
7440-38-2	Arsenic	5.5	3.3	0.91	mg/Kg			4	6010C	
7440-39-3	Barium	369	44.4	1.9	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.52	0.44	0.30	mg/Kg			4	6010C	
7440-70-2	Calcium	52300	1110	85.0	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.31	0.89	0.31	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	3.7	11.1	1.0	mg/Kg	J		4	6010C	
7440-47-3	Chromium	11.6	2.2	0.89	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	30.1	5.6	2.0	mg/Kg			4	6010C	
7439-89-6	Iron	9960	33.3	27.7	mg/Kg			4	6010C	
7440-09-7	Potassium	1230	1110	30.7	mg/Kg			4	6010C	
7439-95-4	Magnesium	3640	1110	73.7	mg/Kg			4	6010C	
7439-96-5	Manganese	244	3.3	0.96	mg/Kg			4	6010C	
7440-23-5	Sodium	830	1110	84.0	mg/Kg	J		4	6010C	
7440-02-0	Nickel	11.6	8.9	2.0	mg/Kg			4	6010C	
7439-92-1	Lead	172	2.2	0.91	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.7	4.4	1.7	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.3	4.4	1.3	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.2	4.4	2.2	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	17.9	11.1	0.92	mg/Kg			4	6010C	
7440-66-6	Zinc	196	6.7	1.9	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.16	0.020	0.014	mg/Kg			1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-45 (18-20)
Lab Sample ID: 460-94062-2
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/29/2015 15:14
Reporting Basis: DRY
Date Received: 04/30/2015 16:10
% Solids: 56.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	7.6	39.1	7.6	mg/Kg	U		50	6010C	
7429-90-5	Aluminum	3140	782	432	mg/Kg			50	6010C	
7440-38-2	Arsenic	16.0	58.7	16.0	mg/Kg	U		50	6010C	
7440-39-3	Barium	778	782	33.8	mg/Kg	J		50	6010C	
7440-41-7	Beryllium	5.3	7.8	5.3	mg/Kg	U		50	6010C	
7440-70-2	Calcium	87900	19600	1500	mg/Kg			50	6010C	
7440-43-9	Cadmium	5.5	15.6	5.5	mg/Kg	U		50	6010C	
7440-48-4	Cobalt	17.6	196	17.6	mg/Kg	U		50	6010C	
7440-47-3	Chromium	132	39.1	15.7	mg/Kg	J		50	6010C	ms
7440-50-8	Copper	1340	97.8	34.4	mg/Kg			50	6010C	
7439-89-6	Iron	4830	587	487	mg/Kg			50	6010C	
7440-09-7	Potassium	540	19600	540	mg/Kg	U		50	6010C	
7439-95-4	Magnesium	1300	19600	1300	mg/Kg	U		50	6010C	
7439-96-5	Manganese	14200	58.7	16.9	mg/Kg			50	6010C	
7440-23-5	Sodium	1480	19600	1480	mg/Kg	U		50	6010C	
7440-02-0	Nickel	35.0	156	35.0	mg/Kg	U		50	6010C	
7439-92-1	Lead	18800	39.1	16.1	mg/Kg	J		50	6010C	ms
7440-36-0	Antimony	29.5	78.2	29.5	mg/Kg	UJ		50	6010C	ms
7782-49-2	Selenium	22.3	78.2	22.3	mg/Kg	U		50	6010C	
7440-28-0	Thallium	38.3	78.2	38.3	mg/Kg	U		50	6010C	
7440-62-2	Vanadium	16.2	196	16.2	mg/Kg	U		50	6010C	
7440-66-6	Zinc	11400	117	33.4	mg/Kg	J		50	6010C	ms
7439-97-6	Mercury	0.13	0.029	0.020	mg/Kg			1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-45 (50-55)
Lab Sample ID: 460-94062-3
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/29/2015 17:28
Reporting Basis: DRY
Date Received: 04/30/2015 16:10
% Solids: 73.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.48	2.5	0.48	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	21400	49.5	27.4	mg/Kg			4	6010C	
7440-38-2	Arsenic	2.5	3.7	1.0	mg/Kg	J		4	6010C	
7440-39-3	Barium	222	49.5	2.1	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.86	0.50	0.34	mg/Kg			4	6010C	
7440-70-2	Calcium	9980	1240	94.7	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.35	0.99	0.35	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	18.4	12.4	1.1	mg/Kg			4	6010C	
7440-47-3	Chromium	47.6	2.5	0.99	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	35.9	6.2	2.2	mg/Kg			4	6010C	
7439-89-6	Iron	39900	37.1	30.8	mg/Kg			4	6010C	
7440-09-7	Potassium	6500	1240	34.2	mg/Kg			4	6010C	
7439-95-4	Magnesium	14800	1240	82.2	mg/Kg			4	6010C	
7439-96-5	Manganese	686	3.7	1.1	mg/Kg			4	6010C	
7440-23-5	Sodium	1940	1240	93.6	mg/Kg			4	6010C	
7440-02-0	Nickel	48.6	9.9	2.2	mg/Kg			4	6010C	
7439-92-1	Lead	15.3	2.5	1.0	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.9	5.0	1.9	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.4	5.0	1.4	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.4	5.0	2.4	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	50.7	12.4	1.0	mg/Kg			4	6010C	
7440-66-6	Zinc	106	7.4	2.1	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.014	0.020	0.014	mg/Kg	U		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-45 (45-48)
Lab Sample ID: 460-94062-4
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/29/2015 17:09
Reporting Basis: DRY
Date Received: 04/30/2015 16:10
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.42	2.1	0.42	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	6810	42.9	23.7	mg/Kg			4	6010C	
7440-38-2	Arsenic	0.88	3.2	0.88	mg/Kg	U		4	6010C	
7440-39-3	Barium	74.4	42.9	1.9	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.29	0.43	0.29	mg/Kg	U		4	6010C	
7440-70-2	Calcium	10200	1070	82.1	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.30	0.86	0.30	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	7.3	10.7	0.97	mg/Kg	J		4	6010C	
7440-47-3	Chromium	19.0	2.1	0.86	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	14.5	5.4	1.9	mg/Kg			4	6010C	
7439-89-6	Iron	16500	32.2	26.7	mg/Kg			4	6010C	
7440-09-7	Potassium	2360	1070	29.6	mg/Kg			4	6010C	
7439-95-4	Magnesium	7290	1070	71.2	mg/Kg			4	6010C	
7439-96-5	Manganese	313	3.2	0.92	mg/Kg			4	6010C	
7440-23-5	Sodium	1100	1070	81.1	mg/Kg			4	6010C	
7440-02-0	Nickel	17.5	8.6	1.9	mg/Kg			4	6010C	
7439-92-1	Lead	4.4	2.1	0.88	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.6	4.3	1.6	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.2	4.3	1.2	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.1	4.3	2.1	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	24.0	10.7	0.89	mg/Kg			4	6010C	
7440-66-6	Zinc	39.9	6.4	1.8	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.013	0.019	0.013	mg/Kg	U		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-47 (10-14)
Lab Sample ID: 460-94148-1
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/30/2015 13:28
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 36.5

% Solids < 50 %

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	1.1	5.4	1.1	mg/Kg	U J		4	6010C	
7429-90-5	Aluminum	2270	109	60.0	mg/Kg	J		4	6010C	
7440-38-2	Arsenic	15.1	8.1	2.2	mg/Kg	J		4	6010C	
7440-39-3	Barium	126	109	4.7	mg/Kg	J		4	6010C	
7440-41-7	Beryllium	0.74	1.1	0.74	mg/Kg	U J		4	6010C	
7440-70-2	Calcium	19900	2710	208	mg/Kg	J		4	6010C	
7440-43-9	Cadmium	0.77	2.2	0.77	mg/Kg	U J		4	6010C	
7440-48-4	Cobalt	3.1	27.1	2.4	mg/Kg	J		4	6010C	
7440-47-3	Chromium	41.1	5.4	2.2	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	412	13.6	4.8	mg/Kg	J		4	6010C	
7439-89-6	Iron	71800	81.4	67.6	mg/Kg	J		4	6010C	
7440-09-7	Potassium	375	2710	74.9	mg/Kg	J		4	6010C	
7439-95-4	Magnesium	1550	2710	180	mg/Kg	J		4	6010C	
7439-96-5	Manganese	361	8.1	2.3	mg/Kg	J		4	6010C	
7440-23-5	Sodium	275	2710	205	mg/Kg	J		4	6010C	
7440-02-0	Nickel	59.1	21.7	4.9	mg/Kg	J		4	6010C	
7439-92-1	Lead	854	5.4	2.2	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	4.1	10.9	4.1	mg/Kg	U J		4	6010C	ms
7782-49-2	Selenium	3.1	10.9	3.1	mg/Kg	U J		4	6010C	
7440-28-0	Thallium	5.3	10.9	5.3	mg/Kg	U J		4	6010C	
7440-62-2	Vanadium	17.8	27.1	2.2	mg/Kg	J		4	6010C	
7440-66-6	Zinc	552	16.3	4.6	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.43	0.044	0.031	mg/Kg	J		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-47 (17-19)
Lab Sample ID: 460-94148-2
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/30/2015 13:46
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 64.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.56	2.9	0.56	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	2170	58.1	32.1	mg/Kg			4	6010C	
7440-38-2	Arsenic	23.3	4.4	1.2	mg/Kg			4	6010C	
7440-39-3	Barium	26.5	58.1	2.5	mg/Kg	J		4	6010C	
7440-41-7	Beryllium	0.39	0.58	0.39	mg/Kg	U		4	6010C	
7440-70-2	Calcium	1290	1450	111	mg/Kg	J		4	6010C	
7440-43-9	Cadmium	0.41	1.2	0.41	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	23.9	14.5	1.3	mg/Kg			4	6010C	
7440-47-3	Chromium	3.5	2.9	1.2	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	43.8	7.3	2.6	mg/Kg			4	6010C	
7439-89-6	Iron	8770	43.5	36.1	mg/Kg			4	6010C	
7440-09-7	Potassium	84.1	1450	40.1	mg/Kg	J		4	6010C	
7439-95-4	Magnesium	140	1450	96.4	mg/Kg	J		4	6010C	
7439-96-5	Manganese	76.4	4.4	1.3	mg/Kg			4	6010C	
7440-23-5	Sodium	162	1450	110	mg/Kg	J		4	6010C	
7440-02-0	Nickel	39.9	11.6	2.6	mg/Kg			4	6010C	
7439-92-1	Lead	10.8	2.9	1.2	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	2.2	5.8	2.2	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.7	5.8	1.7	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.8	5.8	2.8	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	4.8	14.5	1.2	mg/Kg	J		4	6010C	
7440-66-6	Zinc	134	8.7	2.5	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.059	0.024	0.017	mg/Kg			1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-47 (45-50)
Lab Sample ID: 460-94148-3
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 04/30/2015 16:51
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 78.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.45	2.3	0.45	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	12100	46.0	25.4	mg/Kg			4	6010C	
7440-38-2	Arsenic	4.4	3.4	0.94	mg/Kg			4	6010C	
7440-39-3	Barium	98.8	46.0	2.0	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.42	0.46	0.31	mg/Kg	J		4	6010C	
7440-70-2	Calcium	11600	1150	87.9	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.33	0.92	0.33	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	11.3	11.5	1.0	mg/Kg	J		4	6010C	
7440-47-3	Chromium	32.6	2.3	0.92	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	25.4	5.7	2.0	mg/Kg			4	6010C	
7439-89-6	Iron	25700	34.5	28.6	mg/Kg			4	6010C	
7440-09-7	Potassium	4040	1150	31.7	mg/Kg			4	6010C	
7439-95-4	Magnesium	10800	1150	76.3	mg/Kg			4	6010C	
7439-96-5	Manganese	492	3.4	0.99	mg/Kg			4	6010C	
7440-23-5	Sodium	1530	1150	86.9	mg/Kg			4	6010C	
7440-02-0	Nickel	29.7	9.2	2.1	mg/Kg			4	6010C	
7439-92-1	Lead	7.9	2.3	0.94	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.7	4.6	1.7	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.3	4.6	1.3	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.3	4.6	2.3	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	37.9	11.5	0.95	mg/Kg			4	6010C	
7440-66-6	Zinc	63.6	6.9	2.0	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.014	0.019	0.014	mg/Kg	U		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-01 | Lab Sample ID: 460-94148-4

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG ID.: 94062, 94148

Matrix: Solid | Date Sampled: 04/30/2015 00:00

Reporting Basis: DRY | Date Received: 05/01/2015 17:20

% Solids: 77.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.47	2.4	0.47	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	15300	48.3	26.7	mg/Kg			4	6010C	
7440-38-2	Arsenic	4.9	3.6	0.99	mg/Kg			4	6010C	
7440-39-3	Barium	114	48.3	2.1	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.51	0.48	0.33	mg/Kg			4	6010C	
7440-70-2	Calcium	12400	1210	92.4	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.34	0.97	0.34	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	14.0	12.1	1.1	mg/Kg			4	6010C	
7440-47-3	Chromium	40.6	2.4	0.97	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	32.0	6.0	2.1	mg/Kg			4	6010C	
7439-89-6	Iron	31800	36.2	30.1	mg/Kg			4	6010C	
7440-09-7	Potassium	5190	1210	33.3	mg/Kg			4	6010C	
7439-95-4	Magnesium	12900	1210	80.2	mg/Kg			4	6010C	
7439-96-5	Manganese	607	3.6	1.0	mg/Kg			4	6010C	
7440-23-5	Sodium	2020	1210	91.3	mg/Kg			4	6010C	
7440-02-0	Nickel	37.6	9.7	2.2	mg/Kg			4	6010C	
7439-92-1	Lead	10.3	2.4	0.99	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.8	4.8	1.8	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.4	4.8	1.4	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.4	4.8	2.4	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	47.0	12.1	1.0	mg/Kg			4	6010C	
7440-66-6	Zinc	78.2	7.2	2.1	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.015	0.021	0.015	mg/Kg	U		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-46 (11-15)
Lab Sample ID: 460-94148-5
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 05/01/2015 11:42
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 77.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.46	2.4	0.46	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	8290	47.2	26.1	mg/Kg			4	6010C	
7440-38-2	Arsenic	7.3	3.5	0.97	mg/Kg			4	6010C	
7440-39-3	Barium	91.3	47.2	2.0	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.40	0.47	0.32	mg/Kg	J		4	6010C	
7440-70-2	Calcium	4740	1180	90.3	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.33	0.94	0.33	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	6.1	11.8	1.1	mg/Kg	J		4	6010C	
7440-47-3	Chromium	17.4	2.4	0.95	mg/Kg	J	~~P1~~	4	6010C	ms
7440-50-8	Copper	32.3	5.9	2.1	mg/Kg			4	6010C	
7439-89-6	Iron	25400	35.4	29.4	mg/Kg			4	6010C	
7440-09-7	Potassium	838	1180	32.6	mg/Kg	J		4	6010C	
7439-95-4	Magnesium	1840	1180	78.4	mg/Kg			4	6010C	
7439-96-5	Manganese	287	3.5	1.0	mg/Kg			4	6010C	
7440-23-5	Sodium	131	1180	89.2	mg/Kg	J		4	6010C	
7440-02-0	Nickel	13.2	9.4	2.1	mg/Kg			4	6010C	
7439-92-1	Lead	132	2.4	0.97	mg/Kg	J	~~P1~~	4	6010C	ms
7440-36-0	Antimony	1.8	4.7	1.8	mg/Kg	UJ	~~P1~~	4	6010C	ms
7782-49-2	Selenium	1.3	4.7	1.3	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.3	4.7	2.3	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	26.3	11.8	0.98	mg/Kg			4	6010C	
7440-66-6	Zinc	102	7.1	2.0	mg/Kg	J	~~P1~~	4	6010C	ms
7439-97-6	Mercury	0.53	0.022	0.015	mg/Kg			1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-46 (45-50)
Lab Sample ID: 460-94148-6
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 05/01/2015 15:15
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 80.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.45	2.3	0.45	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	15800	46.7	25.8	mg/Kg			4	6010C	
7440-38-2	Arsenic	5.3	3.5	0.96	mg/Kg			4	6010C	
7440-39-3	Barium	141	46.7	2.0	mg/Kg			4	6010C	
7440-41-7	Beryllium	0.55	0.47	0.32	mg/Kg			4	6010C	
7440-70-2	Calcium	13800	1170	89.4	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.83	2.3	0.83	mg/Kg	U		10	6010C	
7440-48-4	Cobalt	14.1	11.7	1.1	mg/Kg			4	6010C	
7440-47-3	Chromium	40.7	2.3	0.94	mg/Kg	J		4	6010C	ms
7440-50-8	Copper	30.1	5.8	2.1	mg/Kg			4	6010C	
7439-89-6	Iron	33800	35.1	29.1	mg/Kg			4	6010C	
7440-09-7	Potassium	5300	1170	32.2	mg/Kg			4	6010C	
7439-95-4	Magnesium	12900	1170	77.6	mg/Kg			4	6010C	
7439-96-5	Manganese	599	3.5	1.0	mg/Kg			4	6010C	
7440-23-5	Sodium	1640	1170	88.3	mg/Kg			4	6010C	
7440-02-0	Nickel	38.0	9.3	2.1	mg/Kg			4	6010C	
7439-92-1	Lead	10.2	2.3	0.96	mg/Kg	J		4	6010C	ms
7440-36-0	Antimony	1.8	4.7	1.8	mg/Kg	UJ		4	6010C	ms
7782-49-2	Selenium	1.3	4.7	1.3	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.3	4.7	2.3	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	45.0	11.7	0.97	mg/Kg			4	6010C	
7440-66-6	Zinc	76.2	7.0	2.0	mg/Kg	J		4	6010C	ms
7439-97-6	Mercury	0.014	0.019	0.014	mg/Kg	U		1	7471B	

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-46 (40-43)
Lab Sample ID: 460-94148-7
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG ID.: 94062, 94148
Matrix: Solid
Date Sampled: 05/01/2015 14:54
Reporting Basis: DRY
Date Received: 05/01/2015 17:20
% Solids: 85.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method	
7440-22-4	Silver	0.45	2.3	0.45	mg/Kg	U		4	6010C	
7429-90-5	Aluminum	3570	46.0	25.4	mg/Kg			4	6010C	
7440-38-2	Arsenic	1.2	3.4	0.94	mg/Kg	J		4	6010C	
7440-39-3	Barium	15.1	46.0	2.0	mg/Kg	J		4	6010C	
7440-41-7	Beryllium	0.31	0.46	0.31	mg/Kg	U		4	6010C	
7440-70-2	Calcium	1290	1150	87.9	mg/Kg			4	6010C	
7440-43-9	Cadmium	0.33	0.92	0.33	mg/Kg	U		4	6010C	
7440-48-4	Cobalt	3.2	11.5	1.0	mg/Kg	J		4	6010C	
7440-47-3	Chromium	11.3	2.3	0.92	mg/Kg	J		4	6010C	MS
7440-50-8	Copper	8.0	5.7	2.0	mg/Kg			4	6010C	
7439-89-6	Iron	6920	34.5	28.6	mg/Kg			4	6010C	
7440-09-7	Potassium	758	1150	31.7	mg/Kg	J		4	6010C	
7439-95-4	Magnesium	2120	1150	76.3	mg/Kg			4	6010C	
7439-96-5	Manganese	93.7	3.4	0.99	mg/Kg			4	6010C	
7440-23-5	Sodium	275	1150	86.9	mg/Kg	J		4	6010C	
7440-02-0	Nickel	8.9	9.2	2.1	mg/Kg	J		4	6010C	
7439-92-1	Lead	1.9	2.3	0.94	mg/Kg	J		4	6010C	MS<R
7440-36-0	Antimony	1.7	4.6	1.7	mg/Kg	UJ		4	6010C	MS
7782-49-2	Selenium	1.3	4.6	1.3	mg/Kg	U		4	6010C	
7440-28-0	Thallium	2.3	4.6	2.3	mg/Kg	U		4	6010C	
7440-62-2	Vanadium	12.6	11.5	0.95	mg/Kg			4	6010C	
7440-66-6	Zinc	23.5	6.9	2.0	mg/Kg	J		4	6010C	MS
7439-97-6	Mercury	0.013	0.019	0.013	mg/Kg	U		1	7471B	

Appendix C

Support Documentation

SAMPLE SUMMARY

Client: AECOM, Inc.

Job Number: 460-94062-1
Sdg Number: 94062, 94148

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-94062-1	SB-45 (10-11)	Solid	04/29/2015 1509	04/30/2015 1610
460-94062-2	SB-45 (18-20)	Solid	04/29/2015 1514	04/30/2015 1610
460-94062-3	SB-45 (50-55)	Solid	04/29/2015 1728	04/30/2015 1610
460-94062-4	SB-45 (45-48)	Solid	04/29/2015 1709	04/30/2015 1610
460-94148-1	SB-47 (10-14)	Solid	04/30/2015 1328	05/01/2015 1720
460-94148-2	SB-47 (17-19)	Solid	04/30/2015 1346	05/01/2015 1720
460-94148-3	SB-47 (45-50)	Solid	04/30/2015 1651	05/01/2015 1720
460-94148-4	DUP-01	Solid	04/30/2015 0000	05/01/2015 1720
460-94148-5	SB-46 (11-15)	Solid	05/01/2015 1142	05/01/2015 1720
460-94148-5MS	SB-46 (11-15)	Solid	05/01/2015 1142	05/01/2015 1720
460-94148-5MSD	SB-46 (11-15)	Solid	05/01/2015 1142	05/01/2015 1720
460-94148-5DU	SB-46 (11-15)	Solid	05/01/2015 1142	05/01/2015 1720
460-94148-6	SB-46 (45-50)	Solid	05/01/2015 1515	05/01/2015 1720
460-94148-7	SB-46 (40-43)	Solid	05/01/2015 1454	05/01/2015 1720

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTOD

460-94062 Chain of Custody

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) Pete Cox	Samplers Name (Printed) J. Savona	Site/Project Identification Equity / National Grid
Company AECOM	P.O. # 60137362 / 340	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 250 Apollo Drive	Analysis Turnaround Time: Standard ☒	Regulatory Program: NYSDEC
City Chelmsford State MA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ TPH 3day	LAB USE ONLY Project No:
Phone 978-905-2168 Fax		Job No: 94062

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

Sample Identification	Date	Time	Matrix	No. of Cont.	VOCs 8260	VOC moisture content	SVOCs 8270D	8015D_DRO	6010C	7471B	8015D_GRO					Sample Numbers
SB-45 (10-11)	4-29-15	15:09	SO	6	X	X	X	X	X	X	X					1
SB-45 (18-20)	↓	15:14	↓	6	X	X	X	X	X	X	X					2
SB-45 (50-55)	↓	17:28	↓	6	X	X	X	X	X	X	X					3
SB-45 (45-48)	4/29/15	17:09	SO	6	X	X	X	X	X	X	X					4

SHORT HOLD

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water:

Special Instructions 3-day TAT for 8015_GRO + DRO only

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) J. Savona	AECOM	04-30-15/15:30	1)	T. A
2) —	T. A	4/30/15 16:50	2) Ken Rivers	TA Ed 4/30/15 16:50
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL-0016 (0814)

Massachusetts (M-NJ312), North Carolina (No. 578) 1.2 / 3.2 IRH J No C.2

TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 240-[illegible]

Number of Coolers: 1 IR Gun #: 5

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.1 °C	1.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 4/30/15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQU

New Durham Road

460-94148 Chain of Custody

32) 549-3679.

of 1

Name (for report and invoice) Pete Cox	Samplers Name (Printed) J. Savona	Site/Project Identification Equity
Company AECOM	P. O. # 60137362/340	State (Location of site): NJ: ☐ NY: ☒ Other:
Address 250 Apollo Dr		Regulatory Program: NYSDEC
City Chelmsford State MA		
Phone 978-905-2168 Fax		

Analysis Turnaround Time: Standard ☒ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☒ 3day TPH

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY: Project No: 94148 Job No: ~~960~~

Sample Identification	Date	Time	Matrix	No. of Cont.	VOC's 8260	VOC (moisture content)	SVOCs 8270D	8015 DRO + GRO	6010C	7471B						Sample Numbers
SB-47 (10-14)	4.30.15	13:28	SO	6	X	X	X	X	X	X						1
SB-47 (17-19)		13:46	SO	6	X	X	X	X	X	X						2
SB-47 (45-50)		16:51	SO	6	X	X	X	X	X	X						3
DUP-01		—	SO	6	X	X	X	X	X	X						4
SB-46 (11-15)	5.1.15	11:42	SO	6	X	X	X	X	X	X						5
SB-46 (11-15) MS/MSD	5.1.15	11:42	SO	6	X	X	X	X	X	X						5
SB-46 (45-50)	5.1.15	15:15	SO	6	X	X	X	X	X	X						6
SB-46 (40-43)	5.1.15	14:54	SO	6	X	X	X	X	X	X						7
Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other MeOH, 7 = Other _____				Soil:	—	—	—	6	—	—						
				Water:												

Special Instructions 3day TAT for TPH GRO + DRO only

Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
J. Savona	AECOM	5/1/15 15:45	1) [signature]	T. A
2) [signature]	T. A	5/1/15 17:20	2) [signature]	TA
3)			3)	5/1/15 17:20
4)			4)	

SHORT HOLD

Laboratory Certifi... ...rsey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL - 0016 (0814)

Massachusetts (M-NJ3...), North Carolina (No. 578) 1.2 (3.2 IRA rnsc.)

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TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 94148

Number of Coolers: 1 IR Gun #: 5

Cooler Temperatures

	Uncorrected	Corrected		Uncorrected	Corrected		Uncorrected	Corrected
Cooler #1:	1.2 °C	1.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4, 06/09/2014

Initials: _____ Date: 5/11/15

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-94062-1
SDG Number: 94062, 94148

Login Number: 94062
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 460-94062-1
SDG Number: 94062, 94148

Login Number: 94148
List Number: 1
Creator: Hall, Alonzo

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2° C IR #5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

CASE NARRATIVE

Client: AECOM, Inc.

Project: Equity / National Grid

Report Number: 460-94062-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 4/30/2015 4:10 PM and 5/1/2015 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.2° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Acetone was detected in method blank MB 460-296185/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Acetone was detected in method blank MB 460-296621/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Acetone was detected in method blank MB 460-296939/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Isopropylbenzene failed the recovery criteria high for LCS 460-296621/3. Chlorobromomethane failed the recovery criteria low for LCSD 460-296185/4. Refer to the QC report for details.

VOLATILE ORGANICS

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for Volatile organics in accordance with EPA SW-846 Methods 8260C. The samples were prepared on 05/01/2015 and analyzed on 05/04/2015, 05/06/2015 and 05/07/2015.

Acetone was detected in method blank LB3 460-295776/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank LB3 460-295993/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Several analytes failed the recovery criteria low for the MS of sample SB-46 (11-15)MS (460-94148-5) in batch 460-296621. 4-Methyl-2-pentanone (MIBK) and Chloroethane failed the recovery criteria high.

The laboratory control sample (LCS) for batch 296621 recovered outside control limits for the following analyte: Isopropylbenzene. This analyte was biased high in the LCS. The associated sample data has been flagged and reported.

The laboratory control sample duplicate (LCSD) for batch 296185 recovered outside control limits for the following analyte: Chlorobromomethane. This analyte was not detected in the associated samples; therefore, the data have been reported.

For the MSD of sample SB-46 (11-15)MSD (460-94148-5) in batch 460-296621, Several analytes failed the recovery criteria low. 4-Methyl-2-pentanone (MIBK) and Chloroethane failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

The following samples were diluted to bring the concentration of target analyte(s) within the calibration range and due to the abundance of

non-target analytes: SB-45 (18-20) (460-94062-2). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 296177 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 296621 recovered outside control limit for Carbon tetrachloride, Isopropylbenzene (biased high), 1,1,1-Trichloroethane and Methyl acetate. A low level calibration standard (LLCCV) was analyzed at the RL and meets criteria. The samples associated with this CCV were non-detects for the affected analytes, except for Isopropylbenzene. The following samples are impacted: SB-46 (40-43) (460-94148-7) and (CCVIS 460-296621/2).

Internal standard (ISTD) response for 1,4-Dioxane-d8 the following sample was outside of acceptance limits (marginal exceedance): SB-46 (40-43) (460-94148-7). The associated target analyte, 1,4-Dioxane, was not detected. Re-analysis was not performed.

Refer to the QC report for details.

No other difficulties were encountered during the Volatile organics analysis.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for Gasoline Range Organics in accordance with EPA SW-846 Method 8015D - GRO. The samples were prepared on 04/30/2015 and 05/01/2015 and analyzed on 05/01/2015, 05/02/2015, 05/03/2015 and 05/04/2015.

a,a,a-Trifluorotoluene failed the surrogate recovery criteria low for SB-45 (18-20) (460-94062-2).

The following samples were diluted due to the abundance of target analytes: SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-45 (18-20) (460-94062-2).

The following samples were diluted to bring the concentration of target analytes within the calibration range: SB-46 (11-15) (460-94148-5), SB-46 (11-15) (460-94148-5[MS]) and SB-46 (11-15) (460-94148-5[MSD]). Elevated reporting limits (RLs) are provided.

Refer to the QC report for details.

No other difficulties were encountered during the GRO analysis.

All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANIC

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for Diesel range organic in accordance with EPA SW-846 Method 8015D_DRO. The samples were prepared on 05/01/2015 and 05/04/2015 and analyzed on 05/04/2015, 05/05/2015 and 05/06/2015.

o-Terphenyl failed the surrogate recovery criteria low for SB-45 (18-20) (460-94062-2). o-Terphenyl failed the surrogate recovery criteria low for SB-47 (10-14) (460-94148-1). Refer to the QC report for details.

#2 Diesel Fuel failed the recovery criteria low for the MS of sample SB-46 (11-15)MS (460-94148-5) in batch 460-296396.

#2 Diesel Fuel failed the recovery criteria low for the MSD of sample SB-46 (11-15)MSD (460-94148-5) in batch 460-296396.

Refer to the QC report for details.

Samples SB-47 (10-14) (460-94062-1)[50X], SB-45 (18-20) (460-94062-2)[20X] and SB-46 (11-15) (460-94062-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 05/03/2015 and 05/04/2015 and analyzed on 05/05/2015 and 05/06/2015.

The laboratory control sample (LCS) for batch 296230 recovered outside control limits for the following analyte: Atrazine. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for batch 296230 recovered outside control limits for the following analyte: 2,4-Dinitrotoluene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The following laboratory control sample (LCS) associated with batch 296230 contained one acid/base surrogate outside acceptance limits:(LCS 460-296230/2-A). The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Several analytes failed the recovery criteria low for the MS of sample 460-93917-7 in batch 460-296986.

For the MSD of sample 460-93917-7 in batch 460-296986, Several analytes failed the recovery criteria low. Di-n-octyl phthalate failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

Several analytes failed the recovery criteria low for the MS of sample SB-46 (11-15)MS (460-94148-5) in batch 460-296669.

1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol and Hexachlorocyclopentadiene failed the recovery criteria low for the MSD of sample SB-46 (11-15)MSD (460-94148-5) in batch 460-296669. 4,6-Dinitro-2-methylphenol exceeded the RPD limit.

Refer to the QC report for details.

Sample SB-47 (10-14) (460-94062-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for Metals in accordance with EPA SW-846 6010C. The samples were prepared on 05/05/2015 and 05/06/2015 and analyzed on 05/05/2015, 05/06/2015, 05/07/2015 and 05/11/2015.

Aluminum, Chromium, Iron and Potassium failed the recovery criteria high for the MS of sample 460-93917-1 in batch 460-297573.

Antimony, Calcium and Manganese failed the recovery criteria low for the MS of sample 460-94021-1 in batch 460-296833. Aluminum and Iron failed the recovery criteria high.

Antimony, Iron and Manganese failed the recovery criteria low for the MS of sample SB-46 (11-15)MS (460-94148-5) in batch 460-296833. Aluminum, Chromium, Lead and Zinc failed the recovery criteria high.

The following samples was diluted due to the nature of the sample matrix (high Internal Std recovery-Yttrium): (460-94021-A-1-B), (460-94021-A-1-C DU), (460-94021-A-1-D MS), (460-94021-A-1-B PDS) and (460-94021-A-1-B SD). Elevated reporting limits (RLs) are provided.

Method(s) 6010C: The following sample was diluted due to the nature of the sample matrix (high: Lead, Manganese, Zinc): SB-45 (18-20) (460-94062-2). Elevated reporting limits (RLs) are provided.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 05/04/2015, 05/05/2015 and 05/06/2015.

Mercury failed the recovery criteria low for the MS of sample SB-46 (11-15)MS (460-94148-5) in batch 460-296758.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples SB-45 (10-11) (460-94062-1), SB-47 (10-14) (460-94148-1), SB-45 (18-20) (460-94062-2), SB-47 (17-19) (460-94148-2), SB-45 (50-55) (460-94062-3), SB-47 (45-50) (460-94148-3), SB-45 (45-48) (460-94062-4), DUP-01 (460-94148-4), SB-46 (11-15) (460-94148-5), SB-46 (45-50) (460-94148-6) and SB-46 (40-43) (460-94148-7) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 05/01/2015 and 05/02/2015.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: MB 460-296185/6

Matrix: Solid | Lab File ID: O98071.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/04/2015 08:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	6.50		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: MB 460-296185/6

Matrix: Solid | Lab File ID: O98071.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/04/2015 08:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
460-00-4	4-Bromofluorobenzene	94		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130
1868-53-7	Dibromofluoromethane (Surr)	109		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: MB 460-296185/6

Matrix: Solid Lab File ID: O98071.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 05/04/2015 08:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296185 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: MB 460-296621/6

Matrix: Solid | Lab File ID: K39471.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/06/2015 00:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	5.34		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: MB 460-296621/6

Matrix: Solid Lab File ID: K39471.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/06/2015 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-130
460-00-4	4-Bromofluorobenzene	107		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130
1868-53-7	Dibromofluoromethane (Surr)	103		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: MB 460-296621/6

Matrix: Solid Lab File ID: K39471.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/06/2015 00:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296621 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: MB 460-296939/6

Matrix: Solid | Lab File ID: K39522.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/07/2015 08:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296939 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	6.47		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: MB 460-296939/6

Matrix: Solid Lab File ID: K39522.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/07/2015 08:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296939 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
460-00-4	4-Bromofluorobenzene	100		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130
1868-53-7	Dibromofluoromethane (Surr)	102		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: MB 460-296939/6

Matrix: Solid Lab File ID: K39522.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/07/2015 08:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296939 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: LB3 460-295776/1-A

Matrix: Solid | Lab File ID: O98072.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/04/2015 08:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	7.01		5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.32	U	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: LB3 460-295776/1-A

Matrix: Solid | Lab File ID: O98072.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/04/2015 08:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296185 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
460-00-4	4-Bromofluorobenzene	96		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130
1868-53-7	Dibromofluoromethane (Surr)	104		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: Lab Sample ID: LB3 460-295776/1-A

Matrix: Solid Lab File ID: O98072.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 05/04/2015 08:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 296185 Units: ug/Kg

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: LB3 460-295993/1-A

Matrix: Solid | Lab File ID: K39475.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/06/2015 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.41	U	1.0	0.41
75-34-3	1,1-Dichloroethane	0.34	U	1.0	0.34
78-93-3	2-Butanone (MEK)	0.77	U	5.0	0.77
71-55-6	1,1,1-Trichloroethane	0.38	U	1.0	0.38
67-64-1	Acetone	1.1	U	5.0	1.1
78-87-5	1,2-Dichloropropane	0.17	U	1.0	0.17
74-83-9	Bromomethane	0.32	U	1.0	0.32
75-15-0	Carbon disulfide	0.43	U	1.0	0.43
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
79-00-5	1,1,2-Trichloroethane	0.28	U	1.0	0.28
71-43-2	Benzene	0.20	U	1.0	0.20
124-48-1	Chlorodibromomethane	0.15	U	1.0	0.15
75-25-2	Bromoform	0.13	U	1.0	0.13
75-00-3	Chloroethane	0.35	U	1.0	0.35
108-10-1	4-Methyl-2-pentanone (MIBK)	2.2	U	5.0	2.2
67-66-3	Chloroform	0.21	U	1.0	0.21
591-78-6	2-Hexanone	0.94	U	5.0	0.94
74-87-3	Chloromethane	0.38	U	1.0	0.38
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	0.15	U	1.0	0.15
108-90-7	Chlorobenzene	0.14	U	1.0	0.14
75-27-4	Dichlorobromomethane	0.38	U	1.0	0.38
100-41-4	Ethylbenzene	0.18	U	1.0	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	U	1.0	0.44
1634-04-4	Methyl tert-butyl ether	0.17	U	1.0	0.17
110-82-7	Cyclohexane	0.46	U	1.0	0.46
75-09-2	Methylene Chloride	0.392	J	1.0	0.32
106-93-4	Ethylene Dibromide	0.12	U	1.0	0.12
179601-23-1	m-Xylene & p-Xylene	0.11	U	1.0	0.11
541-73-1	1,3-Dichlorobenzene	0.12	U	1.0	0.12
95-47-6	o-Xylene	0.16	U	1.0	0.16
106-46-7	1,4-Dichlorobenzene	0.13	U	1.0	0.13
100-42-5	Styrene	0.15	U	1.0	0.15
127-18-4	Tetrachloroethene	0.28	U	1.0	0.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Client Sample ID: | Lab Sample ID: LB3 460-295993/1-A

Matrix: Solid | Lab File ID: K39475.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 05/06/2015 01:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 296621 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
108-88-3	Toluene	0.19	U	1.0	0.19
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
123-91-1	1,4-Dioxane	6.4	U	20	6.4
156-60-5	trans-1,2-Dichloroethene	0.39	U	1.0	0.39
87-61-6	1,2,3-Trichlorobenzene	0.11	U	1.0	0.11
10061-02-6	trans-1,3-Dichloropropene	0.10	U	1.0	0.10
79-01-6	Trichloroethene	0.26	U	1.0	0.26
74-97-5	Chlorobromomethane	0.17	U	1.0	0.17
75-69-4	Trichlorofluoromethane	0.34	U	1.0	0.34
98-82-8	Isopropylbenzene	0.17	U	1.0	0.17
75-01-4	Vinyl chloride	0.39	U	1.0	0.39
107-06-2	1,2-Dichloroethane	0.11	U	1.0	0.11
79-20-9	Methyl acetate	0.90	U	5.0	0.90
95-50-1	1,2-Dichlorobenzene	0.14	U	1.0	0.14
108-87-2	Methylcyclohexane	0.50	U	1.0	0.50
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	1.0	0.47

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
460-00-4	4-Bromofluorobenzene	101		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130
1868-53-7	Dibromofluoromethane (Surr)	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Edison Job No.: 460-94062-1
SDG No.: 94062, 94148
Client Sample ID: Lab Sample ID: LB3 460-295993/1-A
Matrix: Solid Lab File ID: K39475.D
Analysis Method: 8260C Date Collected:
Sample wt/vol: 5(g) Date Analyzed: 05/06/2015 01:37
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)
% Moisture: Level: (low/med) Low
Analysis Batch No.: 296621 Units: ug/Kg
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q
	Tentatively Identified Compound		None	

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Sample No.: CCVIS 460-296621/2 Date Analyzed: 05/05/2015 22:24

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K39467.D Heated Purge: (Y/N) Y

Calibration ID: 49731

		DXE		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		16141	6.20	236174	8.99	135281	11.05
UPPER LIMIT		32282	6.70	472348	9.49	270562	11.55
LOWER LIMIT		8071	5.70	118087	8.49	67641	10.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-296621/3		16719	6.20	288556	8.99	160120	11.05
MB 460-296621/6		9797	6.20	221359	9.00	130156	11.06
LB3 460-295993/1-A		8846	6.20	229636	9.00	123206	11.06
460-94148-3	SB-47 (45-50)	13571	6.21	203325	9.00	119880	11.06
460-94148-4	DUP-01	10008	6.21	202116	9.00	113654	11.06
460-94148-6	SB-46 (45-50)	9277	6.21	207977	9.00	113287	11.06
460-94148-7	SB-46 (40-43)	45.9% 7404*	6.20	217920	9.00	118124	11.06
460-94148-1	SB-47 (10-14)	11623	6.22	256031	9.00	144307	11.06
460-94148-5	SB-46 (11-15)	13481	6.22	276636	9.00	191181	11.06
460-94148-5 MS	SB-46 (11-15) MS	16294	6.21	325992	9.00	198623	11.06
460-94148-5 MSD	SB-46 (11-15) MSD	12969	6.20	256363	9.00	178746	11.06

1,4-DIOXANE

DXE = 1,4-Dioxane-d8
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296177/2 Calibration Date: 05/04/2015 05:46

Instrument ID: CVOAMS2 Calib Start Date: 04/09/2015 00:52

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/09/2015 04:07

Lab File ID: B82196.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0607	0.0499		16.4	20.0	-17.8	20.0
Dichlorodifluoromethane	Ave	0.4115	0.4401	0.1000	21.4	20.0	6.9	20.0
Chloromethane	Ave	0.2908	0.3215	0.1000	22.1	20.0	10.6	20.0
Butadiene	Ave	0.2847	0.3101		21.8	20.0	8.9	20.0
Vinyl chloride	Ave	0.3144	0.3835	0.1000	24.4	20.0	22.0*	20.0
Bromomethane	Ave	0.2152	0.2228	0.1000	20.7	20.0	3.5	50.0
Chloroethane	Ave	0.1702	0.1892	0.1000	22.2	20.0	11.1	50.0
Dichlorofluoromethane	Ave	0.5655	0.6194		21.9	20.0	9.5	20.0
Trichlorofluoromethane	Ave	0.4416	0.5290	0.1000	24.0	20.0	19.8	20.0
Pentane	Ave	0.0365	0.0367		40.2	40.0	0.5	20.0
Ethanol	QuaF	0.0295	0.0234		584	800	-27.0	50.0
Ethyl ether	Ave	0.2172	0.2402		22.1	20.0	10.6	20.0
2-Methyl-1,3-butadiene	Ave	0.2386	0.2559		21.4	20.0	7.2	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2339	0.2632		22.5	20.0	12.5	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2512	0.2799	0.1000	22.3	20.0	11.4	20.0
Acrolein	QuaF	0.4353	0.5272		54.6	40.0	36.4	50.0
1,1-Dichloroethene	Ave	0.2714	0.2782	0.1000	20.5	20.0	2.5	20.0
Acetone	QuaF	0.9654	1.169	0.0500	146	100	45.6	50.0
Iodomethane	Ave	0.4625	0.4624		20.0	20.0	-0.0	20.0
Carbon disulfide	Ave	0.9824	1.011	0.1000	20.6	20.0	2.9	50.0
Isopropyl alcohol	Ave	0.5736	0.4431		155	200	-22.7	50.0
Allyl chloride	Ave	0.1668	0.1857		22.3	20.0	11.4	20.0
Cyclopentene	Ave	0.7218	0.7907		21.9	20.0	9.5	20.0
Methyl acetate	Ave	0.1969	0.2220	0.1000	113	100	12.8	20.0
Acetonitrile	Ave	0.0293	0.0312		213	200	6.4	20.0
Methylene Chloride	Ave	0.3122	0.3237	0.1000	20.7	20.0	3.7	20.0
2-Methyl-2-propanol	Ave	1.314	1.116		170	200	-15.1	50.0
Methyl tert-butyl ether	Ave	0.8704	1.002	0.1000	23.0	20.0	15.1	20.0
trans-1,2-Dichloroethene	Ave	0.3026	0.2980	0.1000	19.7	20.0	-1.5	20.0
Acrylonitrile	Ave	0.0889	0.0981		221	200	10.4	20.0
Hexane	Ave	0.1335	0.1198		17.9	20.0	-10.3	20.0
Isopropyl ether	Ave	0.7961	0.8570		21.5	20.0	7.6	20.0
1,1-Dichloroethane	Ave	0.5317	0.5443	0.2000	20.5	20.0	2.4	20.0
Vinyl acetate	Ave	0.0193	0.0003		0.554	40.0	-98.6*	20.0
2-Chloro-1,3-butadiene	Ave	0.2719	0.2666		19.6	20.0	-2.0	20.0
Allyl alcohol	QuaF	0.1405	0.0971		372	500	-25.6	50.0
Tert-butyl ethyl ether	Ave	0.8973	1.024		22.8	20.0	14.1	20.0
2,2-Dichloropropane	QuaF	0.3190	0.3079		23.8	20.0	19.2	20.0
cis-1,2-Dichloroethene	Ave	0.3291	0.3425	0.1000	20.8	20.0	4.1	20.0
2-Butanone (MEK)	Ave	0.3898	0.4018	0.0500	103	100	3.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296177/2 Calibration Date: 05/04/2015 05:46

Instrument ID: CVOAMS2 Calib Start Date: 04/09/2015 00:52

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/09/2015 04:07

Lab File ID: B82196.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	QuaF	0.3134	0.3117		36.3	40.0	-9.3	20.0
Methyl acrylate	Ave	0.1985	0.2246		22.6	20.0	13.2	20.0
Propionitrile	Ave	1.328	1.187		179	200	-10.6	20.0
Tetrahydrofuran	Ave	0.4377	0.5068		46.3	40.0	15.8	20.0
Chlorobromomethane	Ave	0.1433	0.1498		20.9	20.0	4.6	20.0
Methacrylonitrile	Ave	0.1054	0.1147		218	200	8.8	20.0
Chloroform	Ave	0.5269	0.5834	0.2000	22.1	20.0	10.7	20.0
Cyclohexane	Ave	0.3521	0.3552	0.1000	20.2	20.0	0.9	50.0
1,1,1-Trichloroethane	Ave	0.4708	0.5087	0.1000	21.6	20.0	8.0	20.0
Carbon tetrachloride	Ave	0.3536	0.4056	0.1000	22.9	20.0	14.7	20.0
1,1-Dichloropropene	Ave	0.3740	0.3895		20.8	20.0	4.1	20.0
2,2,4-Trimethylpentane	Ave	0.4828	0.4796		19.9	20.0	-0.7	20.0
Benzene	Ave	1.334	1.290	0.5000	19.3	20.0	-3.3	20.0
Isobutyl alcohol	Ave	0.5309	0.3927		370	500	-26.0	50.0
Isopropyl acetate	Ave	0.2712	0.3058		22.5	20.0	12.7	20.0
Tert-amyl methyl ether	Ave	1.000	1.138		22.8	20.0	13.8	20.0
1,2-Dichloroethane	Ave	0.4217	0.4722	0.1000	22.4	20.0	12.0	20.0
n-Heptane	Ave	0.0986	0.1052		21.3	20.0	6.6	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.4198	0.3836		36.5	40.0	-8.6	20.0
Trichloroethene	Ave	0.2858	0.2991	0.2000	20.9	20.0	4.7	20.0
n-Butanol	Ave	0.2389	0.1700		356	500	-28.8	50.0
Methylcyclohexane	Ave	0.3102	0.2980	0.1000	19.2	20.0	-3.9	50.0
Ethyl acrylate	Ave	0.3095	0.3267		21.1	20.0	5.5	20.0
1,2-Dichloropropane	Ave	0.2735	0.2678	0.1000	19.6	20.0	-2.1	20.0
Dibromomethane	Ave	0.1719	0.1826		21.3	20.0	6.3	20.0
1,4-Dioxane	QuaF	1.283	1.281		449	400	12.2	50.0
Methyl methacrylate	Ave	0.0781	0.0757		38.8	40.0	-3.1	20.0
n-Propyl acetate	Ave	0.3255	0.3175		19.5	20.0	-2.5	20.0
Dichlorobromomethane	Ave	0.3993	0.4346	0.2000	21.8	20.0	8.8	20.0
2-Nitropropane	Ave	0.0832	0.0838		40.3	40.0	0.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1662	0.1707		20.5	20.0	2.7	20.0
Epichlorohydrin	Ave	0.3224	0.3359		417	400	4.2	20.0
cis-1,3-Dichloropropene	Ave	0.5432	0.5210	0.2000	19.2	20.0	-4.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.372	3.259	0.0500	96.6	100	-3.4	50.0
Toluene	Ave	1.399	1.407	0.4000	20.1	20.0	0.5	20.0
trans-1,3-Dichloropropene	Ave	0.4961	0.4726	0.1000	19.1	20.0	-4.7	50.0
Ethyl methacrylate	Ave	0.4397	0.4275		19.4	20.0	-2.8	20.0
1,1,2-Trichloroethane	Ave	0.2661	0.2535	0.1000	19.1	20.0	-4.7	20.0
Tetrachloroethene	Ave	0.2845	0.2673	0.2000	18.8	20.0	-6.0	20.0
1,3-Dichloropropane	Ave	0.5036	0.4938		19.6	20.0	-2.0	20.0
2-Hexanone	Ave	2.274	2.182	0.0500	96.0	100	-4.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296177/2 Calibration Date: 05/04/2015 05:46

Instrument ID: CVOAMS2 Calib Start Date: 04/09/2015 00:52

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/09/2015 04:07

Lab File ID: B82196.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.3137	0.3291	0.1000	21.0	20.0	4.9	50.0
n-Butyl acetate	Ave	0.0827	0.0733		17.7	20.0	-11.5	20.0
Ethylene Dibromide	Ave	0.3175	0.3083	0.1000	19.4	20.0	-2.9	20.0
Chlorobenzene	Ave	0.9453	0.9032	0.5000	19.1	20.0	-4.5	20.0
Ethylbenzene	Ave	0.5300	0.4775	0.1000	18.0	20.0	-9.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3452	0.3390		19.6	20.0	-1.8	20.0
m-Xylene & p-Xylene	Ave	0.6488	0.6085	0.1000	18.8	20.0	-6.2	20.0
o-Xylene	Ave	0.6860	0.6071	0.3000	17.7	20.0	-11.5	20.0
n-Butyl acrylate	Ave	0.3313	0.3000		18.1	20.0	-9.4	20.0
Styrene	Ave	1.146	1.080	0.3000	18.8	20.0	-5.8	20.0
Amyl acetate (mixed isomers)	Ave	1.032	1.068		20.7	20.0	3.5	20.0
Bromoform	Ave	0.2168	0.2020	0.1000	18.6	20.0	-6.8	20.0
Isopropylbenzene	Ave	1.499	1.440	0.1000	19.2	20.0	-3.9	20.0
Camphene	Ave	0.0840	0.0809		19.3	20.0	-3.7	20.0
Bromobenzene	Ave	0.7042	0.6710		19.1	20.0	-4.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7793	0.7746	0.3000	19.9	20.0	-0.6	20.0
N-Propylbenzene	Ave	2.866	2.923		20.4	20.0	2.0	20.0
1,2,3-Trichloropropane	Ave	0.2172	0.2420		22.3	20.0	11.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2336	0.2297		19.7	20.0	-1.7	20.0
2-Chlorotoluene	Ave	2.317	2.333		20.1	20.0	0.7	20.0
4-Ethyltoluene	Ave	2.600	2.560		19.7	20.0	-1.5	20.0
1,3,5-Trimethylbenzene	Ave	2.191	2.236		20.4	20.0	2.1	20.0
4-Chlorotoluene	Ave	2.202	2.219		20.2	20.0	0.8	20.0
Butyl Methacrylate	Ave	0.997	0.9421		18.9	20.0	-5.5	20.0
tert-Butylbenzene	Ave	1.621	1.568		19.3	20.0	-3.3	20.0
1,2,4-Trimethylbenzene	Ave	2.357	2.395		20.3	20.0	1.6	20.0
sec-Butylbenzene	Ave	2.225	2.194		19.7	20.0	-1.4	20.0
1,3-Dichlorobenzene	Ave	1.317	1.280	0.6000	19.4	20.0	-2.8	20.0
4-Isopropyltoluene	Ave	2.024	1.919		19.0	20.0	-5.2	20.0
1,4-Dichlorobenzene	Ave	1.424	1.304	0.5000	18.3	20.0	-8.5	20.0
Benzyl chloride	Ave	1.733	1.771		20.4	20.0	2.2	50.0
Indan	Ave	2.594	2.625		20.2	20.0	1.2	20.0
p-Diethylbenzene	Ave	1.293	1.177		18.2	20.0	-9.0	20.0
n-Butylbenzene	Ave	2.201	2.170		19.7	20.0	-1.4	20.0
1,2-Dichlorobenzene	Ave	1.416	1.276	0.4000	18.0	20.0	-9.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.158	2.044		18.9	20.0	-5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1712	0.1388	0.0500	16.2	20.0	-18.9	50.0
1,3,5-Trichlorobenzene	Ave	0.7918	0.7116		18.0	20.0	-10.1	20.0
Camphor	Ave	0.0971	0.0980		101	100	0.9	20.0
1,2,4-Trichlorobenzene	Ave	0.7633	0.6776	0.2000	17.8	20.0	-11.2	20.0
Hexachlorobutadiene	Ave	0.2517	0.2668		21.2	20.0	6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296177/2 Calibration Date: 05/04/2015 05:46

Instrument ID: CVOAMS2 Calib Start Date: 04/09/2015 00:52

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/09/2015 04:07

Lab File ID: B82196.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	2.235	1.944		17.4	20.0	-13.0	50.0
1,2,3-Trichlorobenzene	Ave	0.6196	0.5439		17.6	20.0	-12.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2431	0.2664		54.8	50.0	9.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3080	0.3534		57.4	50.0	14.7	20.0
Toluene-d8 (Surr)	Ave	1.108	1.106		49.9	50.0	-0.1	20.0
4-Bromofluorobenzene	Ave	0.3664	0.3141		42.9	50.0	-14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296621/2 Calibration Date: 05/05/2015 22:24

Instrument ID: CVOAMS9 Calib Start Date: 05/05/2015 06:43

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/05/2015 08:44

Lab File ID: K39467.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0823	0.0884		21.5	20.0	7.4	20.0
Dichlorodifluoromethane	Ave	0.6611	0.7518	0.1000	22.7	20.0	13.7	20.0
Chloromethane	Ave	0.5071	0.4776	0.1000	18.8	20.0	-5.8	20.0
Vinyl chloride	Ave	0.4268	0.4623	0.1000	21.7	20.0	8.3	20.0
Butadiene	Ave	0.3193	0.3456		21.6	20.0	8.2	20.0
Bromomethane	Ave	0.3649	0.3848	0.1000	21.1	20.0	5.5	50.0
Chloroethane	Ave	2.003	2.067	0.1000	20.6	20.0	3.2	50.0
Dichlorofluoromethane	Ave	0.9838	0.7987		16.2	20.0	-18.8	20.0
Trichlorofluoromethane	Ave	0.7111	0.6369	0.1000	17.9	20.0	-10.4	20.0
Pentane	Ave	0.0635	0.0537		33.8	40.0	-15.4	20.0
Ethanol	QuaF		0.0094		1400	800	75.6*	50.0
Ethyl ether	Ave	0.2696	0.1879		13.9	20.0	-30.3*	20.0
2-Methyl-1,3-butadiene	Ave	0.3672	0.2494		13.6	20.0	-32.1*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3190	0.3510		22.0	20.0	10.0	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.4155	0.4355	0.1000	21.0	20.0	4.8	20.0
Acrolein	Ave	0.6186	0.4289		208	300	-30.7	50.0
1,1-Dichloroethene	Ave	0.4279	0.4215	0.1000	19.7	20.0	-1.5	20.0
Acetone	QuaF		1.036	0.0500	64.3	100	-35.7	50.0
Iodomethane	Ave	0.8071	0.9475		23.5	20.0	17.4	20.0
Isopropyl alcohol	Ave	0.4500	0.2900		129	200	-35.6	50.0
Carbon disulfide	Ave	1.845	1.648	0.1000	17.9	20.0	-10.7	50.0
Allyl chloride	Ave	0.2626	0.2162		16.5	20.0	-17.7	20.0
Methyl acetate	Ave	0.3471	0.2291	0.1000	66.0	100	-34.0*	20.0
Cyclopentene	Ave	1.257	0.996		15.9	20.0	-20.7*	20.0
Acetonitrile	Ave	0.9300	0.5851		126	200	-37.1*	20.0
Methylene Chloride	Ave	0.5250	0.4669	0.1000	17.8	20.0	-11.1	20.0
2-Methyl-2-propanol	Ave	1.053	0.8808		167	200	-16.4	50.0
Methyl tert-butyl ether	Ave	1.124	1.328	0.1000	23.6	20.0	18.1	20.0
trans-1,2-Dichloroethene	Ave	0.4363	0.4944	0.1000	22.7	20.0	13.3	20.0
Acrylonitrile	Ave	0.1365	0.1852		271	200	35.7*	20.0
Hexane	Ave	0.3200	0.3284		20.5	20.0	2.6	20.0
Isopropyl ether	Ave	1.331	1.616		24.3	20.0	21.4*	20.0
1,1-Dichloroethane	Ave	0.8143	0.8798	0.2000	21.6	20.0	8.0	20.0
Allyl alcohol	QuaF		0.0762		2210	500	343.0*	50.0
Vinyl acetate	Ave	0.1468	0.1530		41.7	40.0	4.2	20.0
2-Chloro-1,3-butadiene	Ave	0.3202	0.3302		20.6	20.0	3.1	20.0
Tert-butyl ethyl ether	Ave	1.165	1.410		24.2	20.0	21.0*	20.0
2,2-Dichloropropane	QuaF		0.2388		26.3	20.0	31.6*	20.0
cis-1,2-Dichloroethene	Ave	0.4285	0.4579	0.1000	21.4	20.0	6.9	20.0
2-Butanone (MEK)	Ave	0.3633	0.3961	0.0500	109	100	9.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296621/2 Calibration Date: 05/05/2015 22:24

Instrument ID: CVOAMS9 Calib Start Date: 05/05/2015 06:43

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/05/2015 08:44

Lab File ID: K39467.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	6.012	6.098		40.6	40.0	1.4	20.0
Methyl acrylate	Ave	0.2430	0.2643		21.8	20.0	8.8	20.0
Propionitrile	Ave	1.306	1.772		271	200	35.7*	20.0
Tetrahydrofuran	Ave	0.3562	0.3820		42.9	40.0	7.2	20.0
Chlorobromomethane	Ave	0.2009	0.2197		21.9	20.0	9.4	20.0
Methacrylonitrile	Ave	0.1200	0.1371		229	200	14.3	20.0
Chloroform	Ave	0.6878	0.7168	0.2000	20.8	20.0	4.2	20.0
Cyclohexane	Ave	0.8058	1.049	0.1000	26.0	20.0	30.2	50.0
1,1,1-Trichloroethane	Ave	0.5939	0.7577	0.1000	25.5	20.0	27.6*	20.0
Carbon tetrachloride	Ave	0.5114	0.6565	0.1000	25.7	20.0	28.4*	20.0
1,1-Dichloropropene	Ave	0.4303	0.4262		19.8	20.0	-1.0	20.0
Isobutyl alcohol	Ave	0.3226	0.4406		683	500	36.6	50.0
Benzene	Ave	1.994	2.033	0.5000	20.4	20.0	1.9	20.0
Isopropyl acetate	Ave	1.038	1.236		23.8	20.0	19.1	20.0
Tert-amyl methyl ether	Ave	1.137	1.417		24.9	20.0	24.6*	20.0
1,2-Dichloroethane	Ave	0.4535	0.4493	0.1000	19.8	20.0	-0.9	20.0
n-Heptane	Ave	0.3029	0.3343		22.1	20.0	10.4	20.0
2,4,4-Trimethyl-1-pentene	Ave	0.8844	1.091		49.3	40.0	23.3*	20.0
n-Butanol	QuaF		0.3880		625	500	25.0	50.0
Trichloroethene	Ave	0.3243	0.3232	0.2000	19.9	20.0	-0.3	20.0
Ethyl acrylate	Ave	0.9029	1.077		23.9	20.0	19.3	20.0
Methylcyclohexane	Ave	0.6882	0.8919	0.1000	25.9	20.0	29.6	50.0
1,2-Dichloropropane	Ave	0.3464	0.3658	0.1000	21.1	20.0	5.6	20.0
Methyl methacrylate	Ave	0.2153	0.2375		44.1	40.0	10.3	20.0
1,4-Dioxane	QuaF		1.560		475	400	18.7	50.0
n-Propyl acetate	Ave	0.3593	0.3917		21.8	20.0	9.0	20.0
Dibromomethane	Ave	0.2158	0.2239		20.8	20.0	3.8	20.0
Dichlorobromomethane	Ave	0.4551	0.4581	0.2000	20.1	20.0	0.7	20.0
2-Chloroethyl vinyl ether	Ave	0.1308	0.1410		21.6	20.0	7.8	20.0
2-Nitropropane	QuaF		0.0840		46.1	40.0	15.1	20.0
Epichlorohydrin	Ave	0.2422	0.2893		478	400	19.5	20.0
cis-1,3-Dichloropropene	Ave	0.6583	0.6512	0.2000	19.8	20.0	-1.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.756	3.145	0.0500	114	100	14.1	50.0
Toluene	Ave	1.800	1.891	0.4000	21.0	20.0	5.1	20.0
trans-1,3-Dichloropropene	Ave	0.4975	0.4913	0.1000	19.8	20.0	-1.2	50.0
Ethyl methacrylate	Ave	0.4077	0.4449		21.8	20.0	9.1	20.0
1,1,2-Trichloroethane	Ave	0.3015	0.3016	0.1000	20.0	20.0	0.0	20.0
Tetrachloroethene	QuaF		0.4396	0.2000	22.6	20.0	13.1	20.0
1,3-Dichloropropane	Ave	0.5601	0.5559		19.9	20.0	-0.7	20.0
2-Hexanone	Ave	1.749	1.963	0.0500	112	100	12.2	50.0
n-Butyl acetate	Ave	0.4916	0.5698		23.2	20.0	15.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296621/2 Calibration Date: 05/05/2015 22:24

Instrument ID: CVOAMS9 Calib Start Date: 05/05/2015 06:43

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/05/2015 08:44

Lab File ID: K39467.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.4074	0.4219	0.1000	20.7	20.0	3.6	50.0
Ethylene Dibromide	Ave	0.3348	0.3656	0.1000	21.8	20.0	9.2	20.0
Chlorobenzene	Ave	1.116	1.183	0.5000	21.2	20.0	5.9	20.0
Ethylbenzene	Ave	0.6166	0.6893	0.1000	22.4	20.0	11.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4762	0.5534		23.2	20.0	16.2	20.0
m-Xylene & p-Xylene	Ave	0.7268	0.8248	0.1000	22.7	20.0	13.5	20.0
n-Butyl acrylate	Ave	0.2459	0.2931		23.8	20.0	19.2	20.0
o-Xylene	Ave	0.8157	0.9751	0.3000	23.9	20.0	19.5	20.0
Styrene	Ave	1.119	1.256	0.3000	22.5	20.0	12.3	20.0
Amyl acetate (mixed isomers)	Ave	1.257	1.372		21.8	20.0	9.1	20.0
Bromoform	Ave	0.2658	0.2869	0.1000	21.6	20.0	7.9	20.0
Isopropylbenzene	Ave	2.060	2.612	0.1000	25.4	20.0	26.8*	20.0
Camphene	QuaF		0.1573		12.5	20.0	-37.6*	20.0
Bromobenzene	Ave	0.9123	0.8903		19.5	20.0	-2.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.051	1.118	0.3000	21.3	20.0	6.4	20.0
N-Propylbenzene	Ave	4.834	5.252		21.7	20.0	8.6	20.0
1,2,3-Trichloropropane	Ave	0.2390	0.2564		21.5	20.0	7.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2373	0.2577		21.7	20.0	8.6	20.0
2-Chlorotoluene	Ave	3.310	3.562		21.5	20.0	7.6	20.0
4-Ethyltoluene	Ave	3.852	4.212		21.9	20.0	9.4	20.0
1,3,5-Trimethylbenzene	Ave	3.307	3.758		22.7	20.0	13.6	20.0
4-Chlorotoluene	Ave	2.629	2.726		20.7	20.0	3.7	20.0
Butyl Methacrylate	Ave	0.9786	1.063		21.7	20.0	8.6	20.0
tert-Butylbenzene	QuaF		2.446		18.0	20.0	-10.2	20.0
1,2,4-Trimethylbenzene	Ave	3.387	3.827		22.6	20.0	13.0	20.0
sec-Butylbenzene	Ave	4.330	4.904		22.7	20.0	13.3	20.0
4-Isopropyltoluene	Ave	3.530	4.085		23.1	20.0	15.7	20.0
1,3-Dichlorobenzene	Ave	1.727	1.810	0.6000	21.0	20.0	4.8	20.0
1,4-Dichlorobenzene	Ave	1.736	1.797	0.5000	20.7	20.0	3.5	20.0
Benzyl chloride	Ave	1.634	1.855		22.7	20.0	13.6	50.0
Indan	Ave	3.501	3.842		21.9	20.0	9.7	20.0
p-Diethylbenzene	Ave	2.162	2.480		22.9	20.0	14.7	20.0
n-Butylbenzene	Ave	4.404	5.107		23.2	20.0	16.0	20.0
1,2-Dichlorobenzene	Ave	1.803	1.964	0.4000	21.8	20.0	8.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.086	3.524		22.8	20.0	14.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2035	0.2391	0.0500	23.5	20.0	17.5	50.0
Camphor	Ave	0.0948	0.1206		127	100	27.2*	20.0
1,2,4-Trichlorobenzene	Ave	1.317	1.548	0.2000	23.5	20.0	17.6	20.0
Hexachlorobutadiene	Ave	0.6184	0.6535		21.1	20.0	5.7	20.0
Naphthalene	Ave	3.231	3.792		23.5	20.0	17.3	50.0
1,2,3-Trichlorobenzene	Ave	1.291	1.533		23.7	20.0	18.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296621/2 Calibration Date: 05/05/2015 22:24

Instrument ID: CVOAMS9 Calib Start Date: 05/05/2015 06:43

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/05/2015 08:44

Lab File ID: K39467.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.3933	0.3968		50.4	50.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4042	0.3981		49.2	50.0	-1.5	20.0
Toluene-d8 (Surr)	Ave	1.763	1.798		51.0	50.0	2.0	20.0
4-Bromofluorobenzene	Ave	0.4815	0.5008		52.0	50.0	4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296939/2 Calibration Date: 05/07/2015 06:33

Instrument ID: CVOAMS9 Calib Start Date: 05/06/2015 14:26

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/06/2015 20:01

Lab File ID: K39518.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1138	0.0918		16.1	20.0	-19.4	20.0
Dichlorodifluoromethane	QuaF		0.7765	0.1000	18.2	20.0	-9.2	20.0
Chloromethane	Ave	0.8104	0.7464	0.1000	18.4	20.0	-7.9	20.0
Vinyl chloride	Ave	0.7453	0.7109	0.1000	19.1	20.0	-4.6	20.0
Butadiene	Ave	0.5922	0.5732		19.4	20.0	-3.2	20.0
Bromomethane	Ave	0.5358	0.5100	0.1000	19.0	20.0	-4.8	50.0
Chloroethane	Ave	3.550	3.092	0.1000	17.4	20.0	-12.9	50.0
Dichlorofluoromethane	Ave	1.183	1.212		20.5	20.0	2.4	20.0
Trichlorofluoromethane	Ave	0.8181	0.8461	0.1000	20.7	20.0	3.4	20.0
Pentane	Ave	0.0845	0.0789		37.4	40.0	-6.6	20.0
Ethanol	Ave	0.0725	0.0677		747	800	-6.6	50.0
Ethyl ether	Ave	0.3144	0.3174		20.2	20.0	1.0	20.0
2-Methyl-1,3-butadiene	Ave	0.4606	0.4634		20.1	20.0	0.6	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.4114	0.3973		19.3	20.0	-3.4	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.5427	0.4917	0.1000	18.1	20.0	-9.4	20.0
Acrolein	Ave	0.5762	0.5551		289	300	-3.7	50.0
1,1-Dichloroethene	Ave	0.5325	0.5317	0.1000	20.0	20.0	-0.2	20.0
Acetone	QuaF		2.194	0.0500	148	100	48.1	50.0
Iodomethane	Ave	0.9907	0.9499		19.2	20.0	-4.1	20.0
Isopropyl alcohol	Ave	0.8012	0.8927		223	200	11.4	50.0
Carbon disulfide	Ave	2.331	2.299	0.1000	19.7	20.0	-1.4	50.0
Allyl chloride	Ave	0.3129	0.3075		19.7	20.0	-1.7	20.0
Methyl acetate	Ave	0.4134	0.4530	0.1000	110	100	9.6	20.0
Cyclopentene	Ave	1.518	1.565		20.6	20.0	3.1	20.0
Acetonitrile	Ave	1.908	1.802		189	200	-5.5	20.0
Methylene Chloride	QuaF		0.6102	0.1000	18.5	20.0	-7.6	20.0
2-Methyl-2-propanol	QuaF		1.412		192	200	-4.1	50.0
Methyl tert-butyl ether	Ave	1.426	1.370	0.1000	19.2	20.0	-3.9	20.0
trans-1,2-Dichloroethene	Ave	0.5166	0.5187	0.1000	20.1	20.0	0.4	20.0
Acrylonitrile	Ave	0.1750	0.1818		208	200	3.9	20.0
Hexane	Ave	0.3919	0.3999		20.4	20.0	2.0	20.0
Isopropyl ether	Ave	1.784	1.739		19.5	20.0	-2.5	20.0
1,1-Dichloroethane	Ave	0.9425	0.9645	0.2000	20.5	20.0	2.3	20.0
Allyl alcohol	QuaF		0.2051		439	500	-12.2	50.0
Vinyl acetate	QuaF		0.1769		34.3	40.0	-14.2	20.0
2-Chloro-1,3-butadiene	Ave	0.3661	0.3715		20.3	20.0	1.5	20.0
Tert-butyl ethyl ether	Ave	1.514	1.457		19.2	20.0	-3.8	20.0
2,2-Dichloropropane	QuaF		0.2408		18.8	20.0	-6.1	20.0
cis-1,2-Dichloroethene	Ave	0.4942	0.4971	0.1000	20.1	20.0	0.6	20.0
2-Butanone (MEK)	QuaF		0.4114	0.0500	129	100	29.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296939/2 Calibration Date: 05/07/2015 06:33

Instrument ID: CVOAMS9 Calib Start Date: 05/06/2015 14:26

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/06/2015 20:01

Lab File ID: K39518.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	QuaF		6.875		48.0	40.0	20.1*	20.0
Methyl acrylate	Ave	0.2641	0.2725		20.6	20.0	3.2	20.0
Propionitrile	Ave	1.532	1.390		181	200	-9.3	20.0
Tetrahydrofuran	Ave	0.4503	0.4212		37.4	40.0	-6.5	20.0
Chlorobromomethane	Ave	0.2203	0.2195		19.9	20.0	-0.3	20.0
Methacrylonitrile	Ave	0.1325	0.1382		209	200	4.3	20.0
Chloroform	Ave	0.7869	0.7869	0.2000	20.0	20.0	0.0	20.0
Cyclohexane	Ave	1.057	1.077	0.1000	20.4	20.0	1.9	50.0
1,1,1-Trichloroethane	Ave	0.7664	0.7524	0.1000	19.6	20.0	-1.8	20.0
Carbon tetrachloride	Ave	0.6753	0.6557	0.1000	19.4	20.0	-2.9	20.0
1,1-Dichloropropene	Ave	0.4939	0.5016		20.3	20.0	1.5	20.0
Isobutyl alcohol	Ave	0.5505	0.4838		439	500	-12.1	50.0
Benzene	Ave	2.347	2.336	0.5000	19.9	20.0	-0.5	20.0
Isopropyl acetate	Ave	1.259	1.238		19.7	20.0	-1.6	20.0
Tert-amyl methyl ether	Ave	1.393	1.324		19.0	20.0	-4.9	20.0
1,2-Dichloroethane	Ave	0.4899	0.4940	0.1000	20.2	20.0	0.8	20.0
n-Heptane	Ave	0.3885	0.3410		17.6	20.0	-12.2	20.0
2,4,4-Trimethyl-1-pentene	Ave	1.159	1.139		39.3	40.0	-1.7	20.0
n-Butanol	Ave	0.3617	0.3081		426	500	-14.8	50.0
Trichloroethene	Ave	0.3703	0.3690	0.2000	19.9	20.0	-0.3	20.0
Ethyl acrylate	Ave	1.140	1.100		19.3	20.0	-3.5	20.0
Methylcyclohexane	Ave	0.8987	0.8739	0.1000	19.4	20.0	-2.8	50.0
1,2-Dichloropropane	Ave	0.4024	0.3910	0.1000	19.4	20.0	-2.8	20.0
Methyl methacrylate	Ave	0.2525	0.2641		41.8	40.0	4.6	20.0
1,4-Dioxane	Ave	1.798	1.581		352	400	-12.1	50.0
n-Propyl acetate	Ave	0.4204	0.4420		21.0	20.0	5.1	20.0
Dibromomethane	Ave	0.2376	0.2303		19.4	20.0	-3.1	20.0
Dichlorobromomethane	Ave	0.5092	0.4886	0.2000	19.2	20.0	-4.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1486	0.1413		19.0	20.0	-4.9	20.0
2-Nitropropane	Ave	0.0866	0.0842		38.9	40.0	-2.7	20.0
Epichlorohydrin	Ave	0.3074	0.2916		379	400	-5.1	20.0
cis-1,3-Dichloropropene	Ave	0.7385	0.7461	0.2000	20.2	20.0	1.0	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.511	3.377	0.0500	96.2	100	-3.8	50.0
Toluene	Ave	2.145	2.100	0.4000	19.6	20.0	-2.1	20.0
trans-1,3-Dichloropropene	Ave	0.5608	0.5639	0.1000	20.1	20.0	0.6	50.0
Ethyl methacrylate	Ave	0.4988	0.4834		19.4	20.0	-3.1	20.0
1,1,2-Trichloroethane	Ave	0.3455	0.3335	0.1000	19.3	20.0	-3.5	20.0
Tetrachloroethene	Ave	0.4729	0.4605	0.2000	19.5	20.0	-2.6	20.0
1,3-Dichloropropane	Ave	0.6336	0.6125		19.3	20.0	-3.3	20.0
2-Hexanone	Ave	2.152	2.154	0.0500	100	100	0.1	50.0
n-Butyl acetate	QuaF		0.6098		23.2	20.0	16.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296939/2 Calibration Date: 05/07/2015 06:33

Instrument ID: CVOAMS9 Calib Start Date: 05/06/2015 14:26

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/06/2015 20:01

Lab File ID: K39518.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodibromomethane	Ave	0.4559	0.4482	0.1000	19.7	20.0	-1.7	50.0
Ethylene Dibromide	Ave	0.3804	0.3765	0.1000	19.8	20.0	-1.0	20.0
Chlorobenzene	Ave	1.312	1.254	0.5000	19.1	20.0	-4.4	20.0
Ethylbenzene	Ave	0.7551	0.7344	0.1000	19.5	20.0	-2.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6035	0.5646		18.7	20.0	-6.5	20.0
m-Xylene & p-Xylene	Ave	0.9007	0.8871	0.1000	19.7	20.0	-1.5	20.0
n-Butyl acrylate	Ave	0.3135	0.2996		19.1	20.0	-4.4	20.0
o-Xylene	Ave	1.034	1.000	0.3000	19.3	20.0	-3.3	20.0
Styrene	Ave	1.381	1.360	0.3000	19.7	20.0	-1.5	20.0
Amyl acetate (mixed isomers)	Ave	1.812	1.780		19.7	20.0	-1.7	20.0
Bromoform	Ave	0.2781	0.2773	0.1000	19.9	20.0	-0.3	20.0
Isopropylbenzene	Ave	2.837	2.821	0.1000	19.9	20.0	-0.5	20.0
Camphene	Ave	0.2234	0.2104		18.8	20.0	-5.8	20.0
Bromobenzene	Ave	1.056	0.9743		18.5	20.0	-7.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.313	1.261	0.3000	19.2	20.0	-3.9	20.0
N-Propylbenzene	Ave	6.464	6.342		19.6	20.0	-1.9	20.0
1,2,3-Trichloropropane	Ave	0.2963	0.2932		19.8	20.0	-1.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2989	0.2940		19.7	20.0	-1.6	20.0
2-Chlorotoluene	Ave	4.409	4.211		19.1	20.0	-4.5	20.0
4-Ethyltoluene	Ave	5.209	5.050		19.4	20.0	-3.1	20.0
1,3,5-Trimethylbenzene	Ave	4.665	4.539		19.5	20.0	-2.7	20.0
4-Chlorotoluene	Ave	3.379	3.198		18.9	20.0	-5.4	20.0
Butyl Methacrylate	Ave	1.357	1.298		19.1	20.0	-4.3	20.0
tert-Butylbenzene	Ave	3.257	3.037		18.7	20.0	-6.7	20.0
1,2,4-Trimethylbenzene	Ave	4.695	4.523		19.3	20.0	-3.7	20.0
sec-Butylbenzene	Ave	6.106	5.999		19.6	20.0	-1.8	20.0
4-Isopropyltoluene	Ave	5.106	4.938		19.3	20.0	-3.3	20.0
1,3-Dichlorobenzene	Ave	2.140	1.996	0.6000	18.7	20.0	-6.7	20.0
1,4-Dichlorobenzene	Ave	2.077	1.957	0.5000	18.8	20.0	-5.8	20.0
Benzyl chloride	Ave	2.145	2.087		19.5	20.0	-2.7	50.0
Indan	Ave	4.657	4.496		19.3	20.0	-3.5	20.0
p-Diethylbenzene	Ave	2.996	2.948		19.7	20.0	-1.6	20.0
n-Butylbenzene	Ave	6.111	6.065		19.8	20.0	-0.8	20.0
1,2-Dichlorobenzene	Ave	2.233	2.140	0.4000	19.2	20.0	-4.2	20.0
1,2,4,5-Tetramethylbenzene	Ave	4.538	4.261		18.8	20.0	-6.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2718	0.2612	0.0500	19.2	20.0	-3.9	50.0
Camphor	Ave	0.1568	0.1395		89.0	100	-11.0	20.0
1,2,4-Trichlorobenzene	Ave	1.693	1.594	0.2000	18.8	20.0	-5.8	20.0
Hexachlorobutadiene	Ave	0.7430	0.6567		17.7	20.0	-11.6	20.0
Naphthalene	Ave	4.518	4.082		18.1	20.0	-9.6	50.0
1,2,3-Trichlorobenzene	Ave	1.679	1.546		18.4	20.0	-7.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCVIS 460-296939/2 Calibration Date: 05/07/2015 06:33

Instrument ID: CVOAMS9 Calib Start Date: 05/06/2015 14:26

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/06/2015 20:01

Lab File ID: K39518.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.3885	0.3850		49.5	50.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3922	0.4023		51.3	50.0	2.6	20.0
Toluene-d8 (Surr)	Ave	1.842	1.780		48.3	50.0	-3.4	20.0
4-Bromofluorobenzene	Ave	0.4553	0.4365		47.9	50.0	-4.1	20.0

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39468.D

Lab ID: LCS 460-296621/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	23.8	119	74-128	
1,1-Dichloroethane	20.0	19.7	98	78-125	
2-Butanone (MEK)	100	124	124	58-140	
1,1,1-Trichloroethane	20.0	22.6	113	82-129	
Acetone	100	123	123	58-139	
1,2-Dichloropropane	20.0	19.6	98	72-123	
Bromomethane	20.0	20.4	102	62-150	
Carbon disulfide	20.0	22.9	114	73-127	
Carbon tetrachloride	20.0	23.4	117	77-137	
1,1,2-Trichloroethane	20.0	18.5	92	74-116	
Benzene	20.0	19.9	99	75-123	
Chlorodibromomethane	20.0	20.2	101	74-124	
Bromoform	20.0	20.5	102	70-130	
Chloroethane	20.0	28.1	140	60-140	
4-Methyl-2-pentanone (MIBK)	100	120	120	55-133	
Chloroform	20.0	19.7	98	77-122	
2-Hexanone	100	117	117	52-134	
Chloromethane	20.0	19.0	95	48-144	
cis-1,2-Dichloroethene	20.0	21.1	106	82-121	
1,1,2,2-Tetrachloroethane	20.0	18.8	94	66-121	
cis-1,3-Dichloropropene	20.0	18.4	92	75-119	
Chlorobenzene	20.0	20.9	105	80-120	
Dichlorobromomethane	20.0	19.0	95	77-122	
Ethylbenzene	20.0	22.0	110	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.1	121	73-134	
Methyl tert-butyl ether	20.0	21.3	107	75-124	
Cyclohexane	20.0	22.1	111	66-128	
Methylene Chloride	20.0	21.4	107	75-124	
Ethylene Dibromide	20.0	19.9	99	78-117	
m-Xylene & p-Xylene	20.0	22.6	113	79-120	
1,3-Dichlorobenzene	20.0	21.7	109	78-120	
o-Xylene	20.0	23.0	115	77-120	
1,4-Dichlorobenzene	20.0	21.3	106	77-120	
Styrene	20.0	22.4	112	78-120	
Tetrachloroethene	20.0	24.3	122	80-127	
Dichlorodifluoromethane	20.0	20.9	105	52-145	
Toluene	20.0	20.5	103	82-117	
1,2,4-Trichlorobenzene	20.0	23.5	117	81-127	
1,4-Dioxane	400	453	113	69-142	
trans-1,2-Dichloroethene	20.0	21.7	109	83-124	
1,2,3-Trichlorobenzene	20.0	23.7	118	81-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39468.D

Lab ID: LCS 460-296621/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.1	90	74-119	
Trichloroethene	20.0	20.6	103	78-122	
Chlorobromomethane	20.0	21.5	108	82-127	
Trichlorofluoromethane	20.0	17.1	86	63-147	
Isopropylbenzene	20.0	24.3	121	80-120	*
Vinyl chloride	20.0	20.7	103	62-132	
1,2-Dichloroethane	20.0	17.7	88	79-120	
Methyl acetate	100	87.2	87	61-137	
1,2-Dichlorobenzene	20.0	21.9	110	77-120	
Methylcyclohexane	20.0	23.8	119	80-125	
1,2-Dibromo-3-Chloropropane	20.0	18.8	94	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: O98069.D

Lab ID: LCSD 460-296185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	20.0	16.7	84	18	30	74-128	
1,1-Dichloroethane	20.0	18.3	92	17	30	78-125	
2-Butanone (MEK)	100	86.3	86	0	30	58-140	
1,1,1-Trichloroethane	20.0	17.5	87	10	30	82-129	
Acetone	100	94.5	94	3	30	58-139	
1,2-Dichloropropane	20.0	17.4	87	17	30	72-123	
Bromomethane	20.0	18.9	94	18	30	62-150	
Carbon disulfide	20.0	17.5	88	18	30	73-127	
Carbon tetrachloride	20.0	17.7	88	11	30	77-137	
1,1,2-Trichloroethane	20.0	18.7	93	3	30	74-116	
Benzene	20.0	18.4	92	2	30	75-123	
Chlorodibromomethane	20.0	18.0	90	3	30	74-124	
Bromoform	20.0	16.1	81	5	30	70-130	
Chloroethane	20.0	20.9	105	16	30	60-140	
4-Methyl-2-pentanone (MIBK)	100	96.0	96	5	30	55-133	
Chloroform	20.0	17.6	88	14	30	77-122	
2-Hexanone	100	94.2	94	4	30	52-134	
Chloromethane	20.0	20.9	104	20	30	48-144	
cis-1,2-Dichloroethene	20.0	17.8	89	13	30	82-121	
1,1,2,2-Tetrachloroethane	20.0	19.4	97	3	30	66-121	
cis-1,3-Dichloropropene	20.0	18.8	94	3	30	75-119	
Chlorobenzene	20.0	17.4	87	5	30	80-120	
Dichlorobromomethane	20.0	16.5	82	21	30	77-122	
Ethylbenzene	20.0	18.3	91	4	30	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.4	87	19	30	73-134	
Methyl tert-butyl ether	20.0	17.2	86	18	30	75-124	
Cyclohexane	20.0	18.9	95	13	30	66-128	
Methylene Chloride	20.0	17.4	87	12	30	75-124	
Ethylene Dibromide	20.0	18.2	91	8	30	78-117	
m-Xylene & p-Xylene	20.0	18.5	93	4	30	79-120	
1,3-Dichlorobenzene	20.0	18.7	94	1	30	78-120	
o-Xylene	20.0	18.2	91	4	30	77-120	
1,4-Dichlorobenzene	20.0	17.0	85	12	30	77-120	
Styrene	20.0	18.6	93	1	30	78-120	
Tetrachloroethene	20.0	17.1	85	11	30	80-127	
Dichlorodifluoromethane	20.0	19.8	99	12	30	52-145	
Toluene	20.0	18.4	92	5	30	82-117	
1,2,4-Trichlorobenzene	20.0	18.0	90	1	30	81-127	
1,4-Dioxane	400	400	100	12	30	69-142	
trans-1,2-Dichloroethene	20.0	17.0	85	19	30	83-124	
1,2,3-Trichlorobenzene	20.0	18.4	92	3	30	81-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: O98069.D

Lab ID: LCSD 460-296185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.8	94	6	30	74-119	
Trichloroethene	20.0	17.0	85	14	30	78-122	
Chlorobromomethane	20.0	15.8	79	20	30	82-127	*
Trichlorofluoromethane	20.0	18.6	93	19	30	63-147	
Isopropylbenzene	20.0	18.8	94	3	30	80-120	
Vinyl chloride	20.0	19.5	98	19	30	62-132	
1,2-Dichloroethane	20.0	17.3	87	17	30	79-120	
Methyl acetate	100	94.6	95	6	30	61-137	
1,2-Dichlorobenzene	20.0	18.7	93	3	30	77-120	
Methylcyclohexane	20.0	18.0	90	17	30	80-125	
1,2-Dibromo-3-Chloropropane	20.0	18.2	91	3	30	61-125	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39492.D

Lab ID: 460-94148-5 MS Client ID: SB-46 (11-15) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	31.4	0.55 U	18.0	58	82-129	F1
1,1,2,2-Tetrachloroethane	31.4	0.25 U	29.8	95	66-121	
1,1,2-Trichloro-1,2,2-trifluoroethane	31.4	0.64 U	15.5	49	73-134	F1
1,1,2-Trichloroethane	31.4	0.41 U	16.4	52	74-116	F1
1,1-Dichloroethane	31.4	0.49 U	14.2	45	78-125	F1
1,1-Dichloroethene	31.4	0.59 U	14.7	47	74-128	F1
1,2,3-Trichlorobenzene	31.4	0.16 U	16.3	52	81-123	F1
1,2,4-Trichlorobenzene	31.4	0.46 U	8.43	27	81-127	F1
1,2-Dichloropropane	31.4	0.25 U	20.6	66	72-123	F1
1,3-Dichlorobenzene	31.4	0.17 U	7.41	24	78-120	F1
1,4-Dichlorobenzene	31.4	0.19 U	7.01	22	77-120	F1
1,4-Dioxane	627	9.3 U	558	89	69-142	
2-Butanone (MEK)	157	1.1 U	142	90	58-140	
2-Hexanone	157	1.4 U	203	129	52-134	
4-Methyl-2-pentanone (MIBK)	157	3.2 U	238	152	55-133	F1
Acetone	157	17	119	65	58-139	
Benzene	31.4	0.29 U	15.7	50	75-123	F1
Bromoform	31.4	0.19 U	14.6	47	70-130	F1
Bromomethane	31.4	0.46 U	16.5	53	62-150	F1
Carbon disulfide	31.4	0.62 U	7.48	24	73-127	F1
Carbon tetrachloride	31.4	0.62 U	17.5	56	77-137	F1
Chlorobenzene	31.4	0.20 U	12.8	41	80-120	F1
Chlorobromomethane	31.4	0.25 U	15.1	48	82-127	F1
Chlorodibromomethane	31.4	0.22 U	15.1	48	74-124	F1
Chloroethane	31.4	0.51 U	45.0	144	60-140	F1
Chloroform	31.4	0.30 U	16.1	51	77-122	F1
Chloromethane	31.4	0.55 U	18.5	59	48-144	
cis-1,2-Dichloroethene	31.4	0.32 U	17.4	56	82-121	F1
cis-1,3-Dichloropropene	31.4	0.22 U	12.1	38	75-119	F1
Cyclohexane	31.4	0.67 U	12.6	40	66-128	F1
Dichlorobromomethane	31.4	0.55 U	17.6	56	77-122	F1
Dichlorodifluoromethane	31.4	0.46 U	19.3	62	52-145	
Ethylbenzene	31.4	0.26 U	13.5	43	80-120	F1
Ethylene Dibromide	31.4	0.17 U	13.5	43	78-117	F1
Isopropylbenzene	31.4	0.25 U	12.0	38	80-120	F1
Methyl acetate	157	1.3 U	47.6	30	61-137	F1
Methyl tert-butyl ether	31.4	0.25 U	17.0	54	75-124	F1
Methylcyclohexane	31.4	3.4	15.7	39	80-125	F1
Methylene Chloride	31.4	0.46 U	13.2	42	75-124	F1
m-Xylene & p-Xylene	31.4	0.16 U	14.7	47	79-120	F1
o-Xylene	31.4	0.23 U	14.7	47	77-120	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39492.D

Lab ID: 460-94148-5 MS Client ID: SB-46 (11-15) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Styrene	31.4	0.22 U	13.2	42	78-120	F1
Tetrachloroethene	31.4	0.41 U	12.2	39	80-127	F1
Toluene	31.4	0.28 U	15.3	49	82-117	F1
trans-1,2-Dichloroethene	31.4	0.56 U	12.0	38	83-124	F1
trans-1,3-Dichloropropene	31.4	0.14 U	11.1	35	74-119	F1
Trichloroethene	31.4	0.38 U	14.8	47	78-122	F1
Trichlorofluoromethane	31.4	0.49 U	18.7	60	63-147	F1
Vinyl chloride	31.4	0.56 U	18.3	58	62-132	F1
1,2-Dichloroethane	31.4	0.16 U	13.8	44	79-120	F1
1,2-Dichlorobenzene	31.4	0.20 U	8.14	26	77-120	F1
1,2-Dibromo-3-Chloropropane	31.4	0.68 U	16.9	54	61-125	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39493.D

Lab ID: 460-94148-5 MSD Client ID: SB-46 (11-15) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	37.1	28.1	76	43	30	82-129	F1 F2
1,1,2,2-Tetrachloroethane	37.1	24.3	65	21	30	66-121	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	37.1	27.0	73	54	30	73-134	F2
1,1,2-Trichloroethane	37.1	20.7	56	23	30	74-116	F1
1,1-Dichloroethane	37.1	19.4	52	31	30	78-125	F1 F2
1,1-Dichloroethene	37.1	24.3	66	49	30	74-128	F1 F2
1,2,3-Trichlorobenzene	37.1	12.2	33	29	30	81-123	F1
1,2,4-Trichlorobenzene	37.1	8.40	23	0	30	81-127	F1
1,2-Dichloropropane	37.1	22.1	60	7	30	72-123	F1
1,3-Dichlorobenzene	37.1	11.4	31	43	30	78-120	F1 F2
1,4-Dichlorobenzene	37.1	10.7	29	41	30	77-120	F1 F2
1,4-Dioxane	741	697	94	22	30	69-142	
2-Butanone (MEK)	185	153	82	8	30	58-140	*
2-Hexanone	185	200	108	2	30	52-134	*
4-Methyl-2-pentanone (MIBK)	185	258	139	8	30	55-133	F1 *
Acetone	185	167	81	33	30	58-139	F2 *
Benzene	37.1	21.7	58	32	30	75-123	F1 F2
Bromoform	37.1	19.2	52	27	30	70-130	F1
Bromomethane	37.1	27.5	74	50	30	62-150	F2
Carbon disulfide	37.1	14.9	40	66	30	73-127	F1 F2
Carbon tetrachloride	37.1	26.9	73	43	30	77-137	F1 F2
Chlorobenzene	37.1	17.4	47	31	30	80-120	F1 F2
Chlorobromomethane	37.1	21.1	57	33	30	82-127	F1 F2
Chlorodibromomethane	37.1	19.3	52	25	30	74-124	F1
Chloroethane	37.1	71.8	194	46	30	60-140	F1 F2 *
Chloroform	37.1	20.9	56	26	30	77-122	F1
Chloromethane	37.1	29.0	78	44	30	48-144	F2
cis-1,2-Dichloroethene	37.1	19.9	54	13	30	82-121	F1
cis-1,3-Dichloropropene	37.1	16.2	44	29	30	75-119	F1
Cyclohexane	37.1	23.3	63	60	30	66-128	F1 F2
Dichlorobromomethane	37.1	20.6	56	16	30	77-122	F1
Dichlorodifluoromethane	37.1	30.1	81	43	30	52-145	F2
Ethylbenzene	37.1	20.9	56	43	30	80-120	F1 F2
Ethylene Dibromide	37.1	16.7	45	22	30	78-117	F1
Isopropylbenzene	37.1	24.4	66	68	30	80-120	F1 F2
Methyl acetate	185	83.7	45	55	30	61-137	F1 F2
Methyl tert-butyl ether	37.1	23.6	64	33	30	75-124	F1 F2
Methylcyclohexane	37.1	23.3	54	39	30	80-125	F1 F2
Methylene Chloride	37.1	20.9	56	45	30	75-124	F1 F2
m-Xylene & p-Xylene	37.1	22.2	60	40	30	79-120	F1 F2

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: K39493.D

Lab ID: 460-94148-5 MSD Client ID: SB-46 (11-15) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
o-Xylene	37.1	24.7	67	50	30	77-120	F1 F2
Styrene	37.1	17.4	47	28	30	78-120	F1
Tetrachloroethene	37.1	18.9	51	44	30	80-127	F1 F2
Toluene	37.1	20.9	56	31	30	82-117	F1 F2
trans-1,2-Dichloroethene	37.1	18.6	50	44	30	83-124	F1 F2
trans-1,3-Dichloropropene	37.1	14.3	38	25	30	74-119	F1
Trichloroethene	37.1	19.4	52	27	30	78-122	F1
Trichlorofluoromethane	37.1	28.7	78	42	30	63-147	F2
Vinyl chloride	37.1	32.8	88	57	30	62-132	F2
1,2-Dichloroethane	37.1	18.2	49	27	30	79-120	F1
1,2-Dichlorobenzene	37.1	13.1	35	46	30	77-120	F1 F2
1,2-Dibromo-3-Chloropropane	37.1	17.9	48	6	30	61-125	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low

GC Column (1): Rtx-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	OTPH #
SB-45 (10-11)	460-94062-1	102
SB-45 (18-20)	460-94062-2	0 X D
SB-45 (50-55)	460-94062-3	60
SB-45 (45-48)	460-94062-4	80
SB-47 (10-14)	460-94148-1	0 X D
SB-47 (17-19)	460-94148-2	104
SB-47 (45-50)	460-94148-3	70
DUP-01	460-94148-4	78
SB-46 (11-15)	460-94148-5	97
SB-46 (45-50)	460-94148-6	57
SB-46 (40-43)	460-94148-7	71
	MB 460-295836/1-A	91
	MB 460-296277/1-A	88
	LCS 460-295836/2-A	111
	LCS 460-296277/2-A	102
SB-46 (11-15) MS	460-94148-5 MS	83
	460-93966-B-5-A MS	101
SB-46 (11-15) MSD	460-94148-5 MSD	91
	460-93966-B-5-B MSD	89

OTPH = o-Terphenyl

QC LIMITS
45-132

Column to be used to flag recovery values

FORM II 8015D

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab File ID: x1780.D DFTPP Injection Date: 05/06/2015

Instrument ID: CBNAMS5 DFTPP Injection Time: 05:17

Analysis Batch No.: 296672

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	50.1	
68	Less than 2.0 % of mass 69	0.4	(1.0)1
69	Mass 69 relative abundance	41.3	
70	Less than 2.0 % of mass 69	0.2	(0.4)1
127	40.0 - 60.0 % of mass 198	57.3	
197	Less than 1.0 % of mass 198	0.6	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.4	
275	10.0 - 30.0 % of mass 198	22.8	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	9.5	(89.4)3
442	Greater than 40.0 % of mass 198	52.6	
443	17.0 - 23.0 % of mass 442	10.7	(20.3)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-296672/2	x1781.D	05/06/2015	05:30
	CCV 460-296672/3	x1782.D	05/06/2015	06:10
SB-45 (50-55)	460-94062-3	x1798.D	05/06/2015	12:10
SB-45 (45-48)	460-94062-4	x1799.D	05/06/2015	12:32
SB-45 (10-11)	460-94062-1	x1800.D	05/06/2015	12:54
	MB 460-296121/1-A	x1805.D	05/06/2015	14:43
	LCS 460-296121/2-A	x1806.D	05/06/2015	15:05
	LCS 460-296121/25-A	x1807.D	05/06/2015	15:27
SB-45 (18-20)	460-94062-2	x1810.D	05/06/2015	16:33

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab Sample ID: CCV 460-296672/3 Calibration Date: 05/06/2015 06:10

Instrument ID: CBNAMS5 Calib Start Date: 04/28/2015 11:47

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 04/28/2015 14:12

Lab File ID: x1782.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.019	1.003	0.0100	49200	50000	-1.6	20.0
Caprolactam	Ave	0.0789	0.0608	0.0100	38500	50000	-22.9*	20.0
Atrazine	Ave	0.1841	0.1672	0.0100	45400	50000	-9.2	20.0

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Lab File ID: z0867.D DFTPP Injection Date: 05/05/2015

Instrument ID: CBNAMS11 DFTPP Injection Time: 05:06

Analysis Batch No.: 296364

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	43.0	
68	Less than 2.0 % of mass 69	0.2	(0.6)1
69	Mass 69 relative abundance	37.3	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	40.0 - 60.0 % of mass 198	49.8	
197	Less than 1.0 % of mass 198	0.7	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.3	
275	10.0 - 30.0 % of mass 198	27.4	
365	Greater than 1.0 % of mass 198	4.1	
441	Present but less than mass 443	14.4	(77.5)3
442	Greater than 40.0 % of mass 198	99.0	
443	17.0 - 23.0 % of mass 442	18.6	(18.8)2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-296364/2	z0868.D	05/05/2015	05:31
	CCV 460-296364/3	z0869.D	05/05/2015	05:57
	LCS 460-296230/2-A	z0871.D	05/05/2015	06:48
	LCS 460-296230/3-A	z0873.D	05/05/2015	07:39
SB-47 (45-50)	460-94148-3	z0877.D	05/05/2015	09:24
DUP-01	460-94148-4	z0878.D	05/05/2015	09:50
SB-46 (45-50)	460-94148-6	z0879.D	05/05/2015	10:15
SB-46 (40-43)	460-94148-7	z0880.D	05/05/2015	10:41
SB-47 (10-14)	460-94148-1	z0891.D	05/05/2015	15:38
SB-47 (17-19)	460-94148-2	z0892.D	05/05/2015	16:03

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: z0873.D

Lab ID: LCS 460-296230/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	2880	86	50-105	
1,2,4,5-Tetrachlorobenzene	3330	2830	85	70-130	
2,2'-oxybis[1-chloropropane]	3330	2630	79	45-102	
2,3,4,6-Tetrachlorophenol	3330	3450	103	70-130	
2,4,5-Trichlorophenol	3330	3130	94	50-115	
2,4,6-Trichlorophenol	3330	2990	90	53-118	
2,4-Dichlorophenol	3330	2630	79	58-115	
2,4-Dimethylphenol	3330	2510	75	56-112	
2,4-Dinitrophenol	6670	7400	111	10-129	
2,4-Dinitrotoluene	3330	3780	113	53-110	*
2,6-Dinitrotoluene	3330	3470	104	51-115	
2-Chloronaphthalene	3330	2900	87	51-102	
2-Chlorophenol	3330	2550	76	56-110	
2-Methylnaphthalene	3330	2870	86	51-98	
2-Methylphenol	3330	2710	81	54-117	
2-Nitroaniline	3330	2410	72	51-109	
2-Nitrophenol	3330	2700	81	55-101	
3,3'-Dichlorobenzidine	3330	1740	52	24-105	
3-Nitroaniline	3330	1930	58	32-104	
4,6-Dinitro-2-methylphenol	6670	5940	89	10-110	
4-Bromophenyl phenyl ether	3330	2690	81	44-102	
4-Chloro-3-methylphenol	3330	2920	88	55-117	
4-Chloroaniline	3330	1590	48	10-96	
4-Chlorophenyl phenyl ether	3330	3270	98	50-106	
4-Methylphenol	3330	2550	77	47-103	
4-Nitroaniline	3330	2870	86	45-106	
4-Nitrophenol	6670	6480	97	45-114	
Acenaphthene	3330	2910	87	46-100	
Acenaphthylene	3330	3140	94	51-103	
Acetophenone	3330	2770	83	40-95	
Anthracene	3330	2740	82	50-107	
Benzo[a]anthracene	3330	2740	82	46-112	
Benzo[a]pyrene	3330	2890	87	36-89	
Benzo[b]fluoranthene	3330	3150	95	33-96	
Benzo[g,h,i]perylene	3330	2570	77	43-106	
Benzo[k]fluoranthene	3330	2830	85	35-115	
Bis(2-chloroethoxy)methane	3330	2640	79	51-100	
Bis(2-chloroethyl)ether	3330	2700	81	44-101	
Bis(2-ethylhexyl) phthalate	3330	2980	89	49-119	
Butyl benzyl phthalate	3330	3090	93	49-117	
Carbazole	3330	2720	82	49-104	
Chrysene	3330	2620	79	45-114	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: z0873.D

Lab ID: LCS 460-296230/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz(a,h)anthracene	3330	2820	85	43-107	
Dibenzofuran	3330	3020	90	52-106	
Diethyl phthalate	3330	3500	105	52-114	
Dimethyl phthalate	3330	3310	99	52-112	
Di-n-butyl phthalate	3330	2930	88	50-108	
Di-n-octyl phthalate	3330	3310	99	40-106	
Fluoranthene	3330	2700	81	49-108	
Fluorene	3330	3300	99	51-108	
Hexachlorobenzene	3330	2930	88	43-104	
Hexachlorobutadiene	3330	2670	80	45-98	
Hexachlorocyclopentadiene	3330	2940	88	24-98	
Hexachloroethane	3330	2580	77	45-90	
Indeno[1,2,3-cd]pyrene	3330	2610	78	43-109	
Isophorone	3330	2850	86	48-97	
Naphthalene	3330	2510	75	53-94	
Nitrobenzene	3330	2550	76	42-106	
N-Nitrosodi-n-propylamine	3330	3050	91	42-107	
Pentachlorophenol	6670	5470	82	19-113	
Phenanthrene	3330	2790	84	48-108	
Phenol	3330	2650	80	54-115	
Pyrene	3330	3030	91	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: z0871.D

Lab ID: LCS 460-296230/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	7360	110	30-100	*
Benzaldehyde	6670	6050	91	10-160	
Caprolactam	6670	8450	127	10-127	E

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: L121245.D

Lab ID: 460-94148-5 MS Client ID: SB-46 (11-15) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	4280	43 J	2510	58	50-105	
1,2,4,5-Tetrachlorobenzene	4280	32 U	2290	53	70-130	F1
2,2'-oxybis[1-chloropropane]	4280	17 U	2420	57	45-102	
2,3,4,6-Tetrachlorophenol	4280	40 U	1960	46	70-130	F1
2,4,5-Trichlorophenol	4280	42 U	1950	46	50-115	F1
2,4,6-Trichlorophenol	4280	12 U	2200	51	53-118	F1
2,4-Dichlorophenol	4280	10 U	2370	55	58-115	F1
2,4-Dimethylphenol	4280	93 U	2560	60	56-112	
2,4-Dinitrophenol	8550	320 U	537	6	10-129	F1
2,4-Dinitrotoluene	4280	17 U	3240	76	53-110	
2,6-Dinitrotoluene	4280	23 U	3190	75	51-115	
2-Chloronaphthalene	4280	9.6 U	2460	57	51-102	
2-Chlorophenol	4280	11 U	2390	56	56-110	
2-Methylnaphthalene	4280	850	3390	60	51-98	
2-Methylphenol	4280	18 U	2630	61	54-117	
2-Nitroaniline	4280	14 U	2710	63	51-109	
2-Nitrophenol	4280	14 U	2180	51	55-101	F1
3,3'-Dichlorobenzidine	4280	47 U	1730	40	24-105	
3-Nitroaniline	4280	13 U	2550	60	32-104	
4,6-Dinitro-2-methylphenol	8550	110 U	1670	20	10-110	
4-Bromophenyl phenyl ether	4280	13 U	2590	60	44-102	
4-Chloro-3-methylphenol	4280	18 U	2680	63	55-117	
4-Chloroaniline	4280	11 U	1370	32	10-96	
4-Chlorophenyl phenyl ether	4280	13 U	2610	61	50-106	
4-Methylphenol	4280	12 U	2740	64	47-103	
4-Nitroaniline	4280	16 U	2600	61	45-106	
4-Nitrophenol	8550	200 U	4490	52	45-114	
Acenaphthene	4280	91 J	2640	60	46-100	
Acenaphthylene	4280	11 U	2740	64	51-103	
Acetophenone	4280	9.2 U	2640	62	40-95	
Anthracene	4280	78 J	2500	57	50-107	
Atrazine	8550	19 U	6800	80	30-100	
Benzaldehyde	8550	32 U	4840	57	10-160	
Benzo[a]anthracene	4280	100	2540	57	46-112	
Benzo[a]pyrene	4280	77	2590	59	36-89	
Benzo[b]fluoranthene	4280	140	2660	59	33-96	
Benzo[g,h,i]perylene	4280	71 J	2640	60	43-106	
Benzo[k]fluoranthene	4280	44	2480	57	35-115	
Bis(2-chloroethoxy)methane	4280	13 U	2560	60	51-100	
Bis(2-chloroethyl)ether	4280	10 U	2560	60	44-101	
Bis(2-ethylhexyl) phthalate	4280	150 J	2940	65	49-119	
Butyl benzyl phthalate	4280	13 U	3110	73	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: L121245.D

Lab ID: 460-94148-5 MS Client ID: SB-46 (11-15) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	8550	31 U	5680	66	10-127	
Carbazole	4280	11 U	2400	56	49-104	
Chrysene	4280	120 J	2540	56	45-114	
Dibenz(a,h)anthracene	4280	22 U	2740	64	43-107	
Dibenzofuran	4280	13 U	2670	62	52-106	
Diethyl phthalate	4280	12 U	2950	69	52-114	
Dimethyl phthalate	4280	12 U	2950	69	52-112	
Di-n-butyl phthalate	4280	13 U	2660	62	50-108	
Di-n-octyl phthalate	4280	22 U	2870	67	40-106	
Fluoranthene	4280	200 J	2420	52	49-108	
Fluorene	4280	150 J	2850	63	51-108	
Hexachlorobenzene	4280	17 U	2650	62	43-104	
Hexachlorobutadiene	4280	12 U	2320	54	45-98	
Hexachlorocyclopentadiene	4280	26 U	881	21	24-98	F1
Hexachloroethane	4280	16 U	2420	57	45-90	
Indeno[1,2,3-cd]pyrene	4280	68	2710	62	43-109	
Isophorone	4280	9.1 U	2700	63	48-97	
Naphthalene	4280	470	2790	54	53-94	
Nitrobenzene	4280	13 U	2410	56	42-106	
N-Nitrosodi-n-propylamine	4280	14 U	3010	70	42-107	
Pentachlorophenol	8550	51 U	2070	24	19-113	
Phenanthrene	4280	190 J	2670	58	48-108	
Phenol	4280	14 U	2490	58	54-115	
Pyrene	4280	68 J	3620	83	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: L121246.D

Lab ID: 460-94148-5 MSD Client ID: SB-46 (11-15) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1'-Biphenyl	4270	2950	68	16	30	50-105	
1,2,4,5-Tetrachlorobenzene	4270	2710	63	17	30	70-130	F1
2,2'-oxybis[1-chloropropane]	4270	2810	66	15	30	45-102	
2,3,4,6-Tetrachlorophenol	4270	2390	56	20	30	70-130	F1
2,4,5-Trichlorophenol	4270	2200	51	12	30	50-115	
2,4,6-Trichlorophenol	4270	2560	60	15	30	53-118	
2,4-Dichlorophenol	4270	2820	66	18	30	58-115	
2,4-Dimethylphenol	4270	3060	72	18	30	56-112	
2,4-Dinitrophenol	8550	666	8	21	30	10-129	F1
2,4-Dinitrotoluene	4270	3770	88	15	30	53-110	
2,6-Dinitrotoluene	4270	3700	87	15	30	51-115	
2-Chloronaphthalene	4270	2870	67	16	30	51-102	
2-Chlorophenol	4270	2790	65	15	30	56-110	
2-Methylnaphthalene	4270	3980	73	16	30	51-98	
2-Methylphenol	4270	3030	71	14	30	54-117	
2-Nitroaniline	4270	3170	74	16	30	51-109	
2-Nitrophenol	4270	2570	60	16	30	55-101	
3,3'-Dichlorobenzidine	4270	2010	47	15	30	24-105	
3-Nitroaniline	4270	2640	62	4	30	32-104	
4,6-Dinitro-2-methylphenol	8550	2280	27	31	30	10-110	F2
4-Bromophenyl phenyl ether	4270	3030	71	16	30	44-102	
4-Chloro-3-methylphenol	4270	3090	72	14	30	55-117	
4-Chloroaniline	4270	1590	37	15	30	10-96	
4-Chlorophenyl phenyl ether	4270	3050	71	16	30	50-106	
4-Methylphenol	4270	3140	73	13	30	47-103	
4-Nitroaniline	4270	2490	58	4	30	45-106	
4-Nitrophenol	8550	5410	63	19	30	45-114	
Acenaphthene	4270	3090	70	16	30	46-100	
Acenaphthylene	4270	3180	74	15	30	51-103	
Acetophenone	4270	3060	72	15	30	40-95	
Anthracene	4270	3000	68	18	30	50-107	
Atrazine	8550	8290	97	20	30	30-100	
Benzaldehyde	8550	5590	65	14	30	10-160	
Benzo[a]anthracene	4270	3050	69	18	30	46-112	
Benzo[a]pyrene	4270	3030	69	16	30	36-89	
Benzo[b]fluoranthene	4270	3040	68	13	30	33-96	
Benzo[g,h,i]perylene	4270	3210	73	19	30	43-106	
Benzo[k]fluoranthene	4270	2920	67	16	30	35-115	
Bis(2-chloroethoxy)methane	4270	3070	72	18	30	51-100	
Bis(2-chloroethyl)ether	4270	3000	70	16	30	44-101	
Bis(2-ethylhexyl) phthalate	4270	3600	81	20	30	49-119	
Butyl benzyl phthalate	4270	3830	90	21	30	49-117	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: L121246.D

Lab ID: 460-94148-5 MSD Client ID: SB-46 (11-15) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Caprolactam	8550	7490	88	27	30	10-127	
Carbazole	4270	2740	64	13	30	49-104	
Chrysene	4270	2880	64	13	30	45-114	
Dibenz(a,h)anthracene	4270	3280	77	18	30	43-107	
Dibenzofuran	4270	3090	72	15	30	52-106	
Diethyl phthalate	4270	3470	81	16	30	52-114	
Dimethyl phthalate	4270	3410	80	15	30	52-112	
Di-n-butyl phthalate	4270	3240	76	20	30	50-108	
Di-n-octyl phthalate	4270	3310	77	14	30	40-106	
Fluoranthene	4270	2990	65	21	30	49-108	
Fluorene	4270	3350	75	16	30	51-108	
Hexachlorobenzene	4270	3090	72	15	30	43-104	
Hexachlorobutadiene	4270	2800	66	19	30	45-98	
Hexachlorocyclopentadiene	4270	863	20	2	30	24-98	F1
Hexachloroethane	4270	2810	66	15	30	45-90	
Indeno[1,2,3-cd]pyrene	4270	3220	74	17	30	43-109	
Isophorone	4270	3250	76	19	30	48-97	
Naphthalene	4270	3310	67	17	30	53-94	
Nitrobenzene	4270	2930	68	20	30	42-106	
N-Nitrosodi-n-propylamine	4270	3490	82	15	30	42-107	
Pentachlorophenol	8550	2780	33	29	30	19-113	
Phenanthrene	4270	3270	72	20	30	48-108	
Phenol	4270	2890	68	15	30	54-115	
Pyrene	4270	4410	102	20	30	49-116	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM II
GC VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Medium

GC Column (1): Rtx-5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	TFT1 #
SB-45 (10-11)	460-94062-1	89
SB-45 (18-20)	460-94062-2	0 X D
SB-45 (50-55)	460-94062-3	118
SB-45 (45-48)	460-94062-4	100
SB-47 (10-14)	460-94148-1	94
SB-47 (17-19)	460-94148-2	98
SB-47 (45-50)	460-94148-3	118
DUP-01	460-94148-4	119
SB-46 (11-15)	460-94148-5	121
SB-46 (45-50)	460-94148-6	112
SB-46 (40-43)	460-94148-7	109
	MB 460-295806/5	91
	MB 460-295806/23	87
	MB 460-296088/6	101
	MB 460-296202/5	103
	LCS 460-295806/3	100
	LCS 460-295806/21	97
	LCS 460-296088/4	104
	LCS 460-296202/3	102
	LCSD 460-295806/4	101
	LCSD 460-295806/22	109
	LCSD 460-296088/5	98
	LCSD 460-296202/4	102
SB-46 (11-15) MS	460-94148-5 MS	95
SB-46 (11-15) MSD	460-94148-5 MSD	101

TFT = a,a,a-Trifluorotoluene QC LIMITS 70-130

Column to be used to flag recovery values

FORM II 8015D

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: 3F007444.D

Lab ID: 460-94148-5 MS Client ID: SB-46 (11-15) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
#2 Diesel Fuel	171	490	236	-147	70-130	F1

Column to be used to flag recovery and RPD values

FORM III 8015D

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid Level: Low Lab File ID: 3F007445.D

Lab ID: 460-94148-5 MSD Client ID: SB-46 (11-15) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
#2 Diesel Fuel	171	233	-148	1	30	70-130	F1

Column to be used to flag recovery and RPD values

FORM III 8015D

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Concentration Units: ug/L

Analyte	RL	ICB 460-297724/8 05/10/2015 18:45		CCB 460-297724/89 05/11/2015 00:01		CCB 460-297724/102 05/11/2015 00:50		CCB 460-297724/114 05/11/2015 01:35	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	73.6	U	73.6	U	73.6	U	73.6	U
Antimony	20.0	5.4	U	5.4	U	5.4	U	5.4	U
Arsenic	15.0	4.3	U	4.3	U	4.3	U	4.3	U
Barium	200	6.5	U	7.22	J	6.5	U	6.5	U
Beryllium	2.0	1.1	U	1.1	U	1.1	U	1.1	U
Cadmium	4.0	1.2	U	1.2	U	1.2	U	1.2	U
Calcium	5000	416	U	416	U	416	U	416	U
Chromium	10.0	4.6	U	4.6	U	4.6	U	4.6	U
Cobalt	50.0	3.8	U	3.8	U	3.8	U	3.8	U
Copper	25.0	6.2	U	6.2	U	6.2	U	6.2	U
Iron	150	51.4	U	51.4	U	51.4	U	51.4	U
Lead	10.0	4.6	U	4.82	J	4.6	U	4.6	U
Magnesium	5000	355	U	355	U	355	U	355	U
Manganese	15.0	4.3	U	4.3	U	4.3	U	4.3	U
Nickel	40.0	7.8	U	7.8	U	7.8	U	7.8	U
Potassium	5000	281	U	281	U	281	U	281	U
Selenium	20.0	6.7	U	6.7	U	6.7	U	6.7	U
Silver	10.0	1.9	U	1.9	U	1.9	U	1.9	U
Sodium	5000	514	U	514	U	514	U	514	U
Thallium	20.0	9.2	U	9.2	U	9.2	U	9.2	U
Vanadium	50.0	4.2	U	4.2	U	4.2	U	4.2	U
Zinc	30.0	5.9	U	5.9	U	5.9	U	5.9	U

50x dilution for SB-45(18-20).

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Concentration Units: ug/L

Analyte	RL	ICB 460-296552/8 05/05/2015 12:33		CCB 460-296552/89 05/05/2015 18:52		CCB 460-296552/102 05/05/2015 19:40		CCB 460-296552/115 05/05/2015 20:29	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	73.6	U	73.6	U	73.6	U	73.6	U
Antimony	20.0	5.4	U	5.4	U	5.4	U	5.4	U
Arsenic	15.0	4.3	U	4.3	U	4.3	U	4.3	U
Barium	200	6.5	U	6.5	U	6.5	U	6.5	U
Beryllium	2.0	1.1	U	1.1	U	1.1	U	1.1	U
Cadmium	4.0	1.2	U	1.2	U	1.2	U	1.2	U
Calcium	5000	416	U	416	U	416	U	416	U
Chromium	10.0	4.6	U	4.6	U	4.6	U	4.6	U
Cobalt	50.0	3.8	U	3.8	U	3.8	U	3.8	U
Copper	25.0	6.2	U	6.2	U	6.2	U	6.2	U
Iron	150	51.4	U	51.4	U	51.4	U	51.4	U
Lead	10.0	4.6	U	4.6	U	4.6	U	4.6	U
Magnesium	5000	355	U	355	U	355	U	355	U
Manganese	15.0	4.3	U	4.3	U	4.3	U	7.87	J
Nickel	40.0	7.8	U	7.8	U	7.8	U	7.8	U
Potassium	5000	281	U	281	U	281	U	281	U
Selenium	20.0	6.7	U	6.7	U	6.7	U	6.7	U
Silver	10.0	1.9	U	1.9	U	1.9	U	1.9	U
Sodium	5000	514	U	514	U	514	U	514	U
Thallium	20.0	9.2	U	9.2	U	9.2	U	9.2	U
Vanadium	50.0	4.2	U	4.2	U	4.2	U	4.2	U
Zinc	30.0	5.9	U	5.9	U	5.9	U	5.9	U

Manganese not reported.

Gtm 6/19/15

Italicized analytes were not requested for this sequence.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-46 (11-15) MS
Lab ID: 460-94148-5 MS
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG No.: 94062, 94148
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 77.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	5.90		0.46	U	6.24	94	75-125		6010C
Aluminum	11760		8290		250	1388	75-125	4	6010C
Arsenic	251.3		7.3		250	98	75-125		6010C
Barium	375.6		91.3		250	114	75-125		6010C
Beryllium	6.59		0.40	J	6.24	99	75-125		6010C
Calcium	6978		4740		2500	90	75-125		6010C
Cadmium	5.94		0.33	U	6.24	95	75-125		6010C
Cobalt	72.08		6.1	J	62.4	106	75-125		6010C
Chromium	50.18		17.4		25.0	131	75-125	F1	6010C
Copper	63.76		32.3		31.2	101	75-125		6010C
Iron	19360		25400		125	-4854	75-125	4	6010C
Potassium	3621		838	J	2500	111	75-125		6010C
Magnesium	4728		1840		2500	116	75-125		6010C
Manganese	310.7		287		62.4	37	75-125	4	6010C
Sodium	2550		131	J	2500	97	75-125		6010C
Nickel	81.39		13.2		62.4	109	75-125		6010C
Lead	252.3		132		62.4	193	75-125	F1	6010C
Antimony	32.89		1.8	U	62.4	53	75-125	F1	6010C
Selenium	245.1		1.3	U	250	98	75-125		6010C
Thallium	262.0		2.3	U	250	105	75-125		6010C
Vanadium	92.23		26.3		62.4	106	75-125		6010C
Zinc	194.3		102		62.4	148	75-125	F1	6010C
Mercury	0.556		0.53		0.105	29	80-120	4	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-46 (11-15) PDS | Lab ID: 460-94148-5 PDS

Lab Name: TestAmerica Edison | Job No.: 460-94062-1

SDG No.: 94062, 94148

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	10.90		0.46	U	11.8	92	80-120		6010C
Aluminum	8617		8290		472	NC	80-120		6010C
Arsenic	460.2		7.3		472	96	80-120		6010C
Barium	561.0		91.3		472	100	80-120		6010C
Beryllium	11.76		0.40	J	11.8	96	80-120		6010C
Calcium	9039		4740		4720	91	80-120		6010C
Cadmium	10.85		0.33	U	11.8	92	80-120		6010C
Cobalt	123.8		6.1	J	118	100	80-120		6010C
Chromium	62.99		17.4		47.2	97	80-120		6010C
Copper	90.82		32.3		59.0	99	80-120		6010C
Iron	24950		25400		236	NC	80-120		6010C
Potassium	5159		838	J	4720	92	80-120		6010C
Magnesium	6198		1840		4720	92	80-120		6010C
Manganese	399.3		287		118	95	80-120		6010C
Sodium	4604		131	J	4720	95	80-120		6010C
Nickel	133.3		13.2		118	102	80-120		6010C
Lead	244.3		132		118	95	80-120		6010C
Antimony	112.2		1.8	U	118	95	80-120		6010C
Selenium	459.3		1.3	U	472	97	80-120		6010C
Thallium	484.3		2.3	U	472	103	80-120		6010C
Vanadium	139.9		26.3		118	96	80-120		6010C
Zinc	214.9		102		118	96	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: SB-46 (11-15) DU
Lab ID: 460-94148-5 DU
Lab Name: TestAmerica Edison
Job No.: 460-94062-1
SDG No.: 94062, 94148
% Solids for Sample: 77.7
% Solids for Duplicate: 77.7
Matrix: Solid
Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Silver	2.4	0.46	U	0.48	U	NC		6010C
Aluminum	49.0	8290		8560		3		6010C
Arsenic	3.7	7.3		7.29		0.1		6010C
Barium	49.0	91.3		94.79		4		6010C
Beryllium	0.49	0.40	J	0.421	J	4		6010C
Calcium	1220	4740		4946		4		6010C
Cadmium	0.98	0.33	U	0.35	U	NC		6010C
Cobalt	12.2	6.1	J	6.35	J	4		6010C
Chromium	2.4	17.4		18.15		4		6010C
Copper	6.1	32.3		33.91		5		6010C
Iron	36.7	25400		26360		4		6010C
Potassium	1220	838	J	870.0	J	4		6010C
Magnesium	1220	1840		1909		4		6010C
Manganese	3.7	287		300.6		4		6010C
Sodium	1220	131	J	134.0	J	2		6010C
Nickel	9.8	13.2		13.56		3		6010C
Lead	2.4	132		135.7		3		6010C
Antimony	4.9	1.8	U	1.8	U	NC		6010C
Selenium	4.9	1.3	U	1.4	U	NC		6010C
Thallium	4.9	2.3	U	2.4	U	NC		6010C
Vanadium	12.2	26.3		27.24		4		6010C
Zinc	7.3	102		105.4		3		6010C
Mercury	0.022	0.53		0.532		1		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-94148-5

SDG No: 94062, 94148

Lab Name: TestAmerica Edison Job No: 460-94062-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.46	U	2.3	U	NC		6010C
Aluminum	8290		8534		3.0		6010C
Arsenic	7.3		7.81	J	NC		6010C
Barium	91.3		91.76	J	NC		6010C
Beryllium	0.40	J	1.6	U	NC		6010C
Calcium	4740		4929	J	4.0		6010C
Cadmium	0.33	U	1.7	U	NC		6010C
Cobalt	6.1	J	6.38	J	NC		6010C
Chromium	17.4		18.22		NC		6010C
Copper	32.3		32.62		NC		6010C
Iron	25400		26270		3.3		6010C
Potassium	838	J	860.2	J	NC		6010C
Magnesium	1840		1923	J	NC		6010C
Manganese	287		297.2		3.4		6010C
Sodium	131	J	446	U	NC		6010C
Nickel	13.2		13.41	J	NC		6010C
Lead	132		135.9		3.2		6010C
Antimony	1.8	U	8.9	U	NC		6010C
Selenium	1.3	U	6.7	U	NC		6010C
Thallium	2.3	U	11.6	U	NC		6010C
Vanadium	26.3		27.36	J	NC		6010C
Zinc	102		104.1		2.1		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-94148-5

SDG No: 94062, 94148

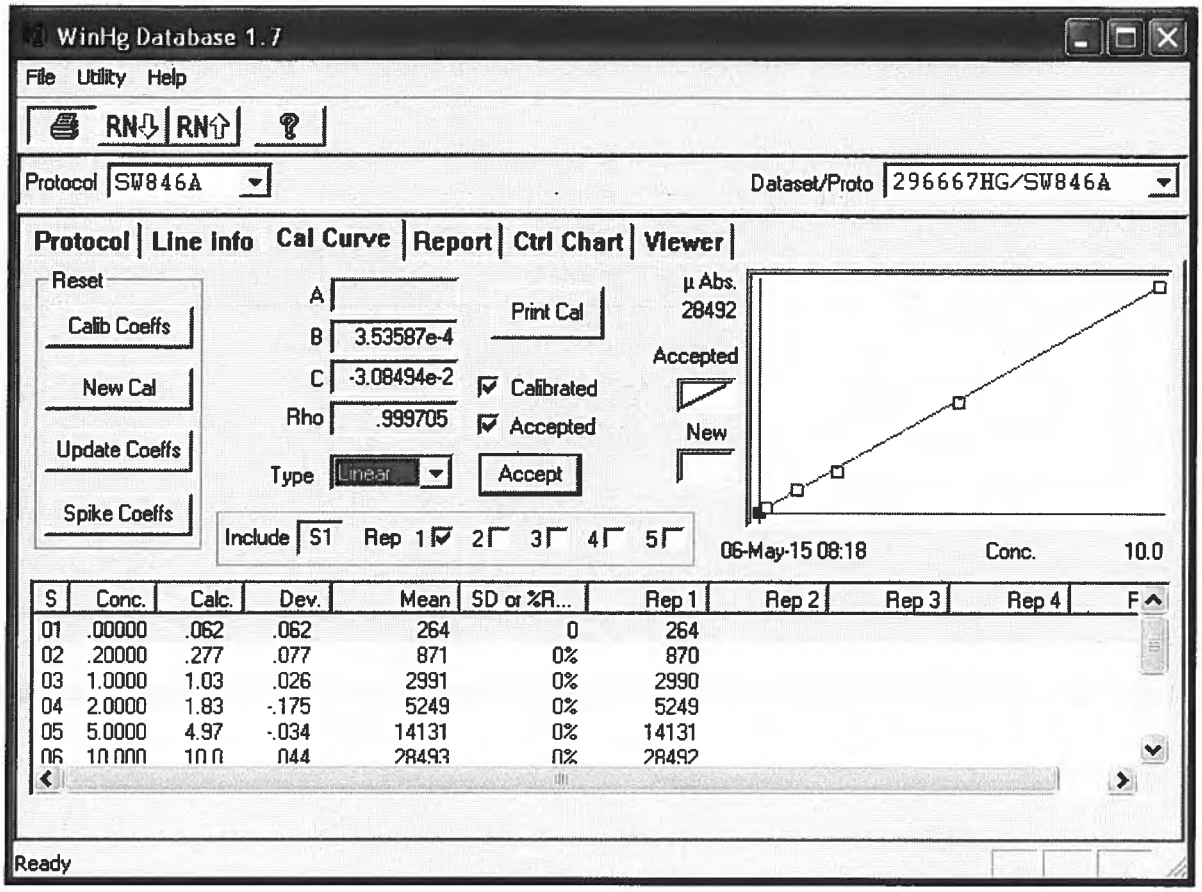
Lab Name: TestAmerica Edison Job No: 460-94062-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.53		0.519		NC		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN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RN⇩ RN⇧
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Dataset/Proto 296667HG/SW846A
Protocol Line Info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 3.53587e-4
C -3.08494e-2
Rho .999705
Type Linear
Print Cal
Calibrated
Accepted
Accept
µ Abs.
28492
Accepted
New
Include S1 Rep 1 2 3 4 5
06-May-15 08:18
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %R... Rep 1 Rep 2 Rep 3 Rep 4
01 .00000 .062 .062 264 0 264
02 .20000 .277 .077 871 0% 870
03 1.0000 1.03 .026 2991 0% 2990
04 2.0000 1.83 -.175 5249 0% 5249
05 5.0000 4.97 -.034 14131 0% 14131
06 10.000 10.0 .044 28493 0% 28492
Ready

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line Conc. Units SD/RSD 1 2 3 4 5

*** Standard: 1 Rep: 1 Seq: 1 08:08:28 06 May 15 HG

Hg .000 ppb 264

=

*** Standard: 2 Rep: 1 Seq: 2 08:10:15 06 May 15 HG

Hg .200 ppb 870

=

*** Standard: 3 Rep: 1 Seq: 3 08:12:04 06 May 15 HG

Hg 1.00 ppb 2990

=

*** Standard: 4 Rep: 1 Seq: 4 08:13:55 06 May 15 HG

Hg 2.00 ppb 5249

=

*** Standard: 5 Rep: 1 Seq: 5 08:15:57 06 May 15 HG

Hg 5.00 ppb 14131

=

*** Standard: 6 Rep: 1 Seq: 6 08:18:05 06 May 15 HG

Hg 10.0 ppb 28492

=

*** Check Standard: 3 Ck3AICV Seq: 7 08:20:05 06 May 15 HG
Line Flag Intensities
Hg 14317

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 8 08:22:02 06 May 15 HG
Line Flag Intensities
Hg 256

=

*** Sample ID: Seq: 9 08:23:51 06 May 15 HG
mb 460-296667/10-a
Hg -.035 ppb -13

=

==========

*** Sample ID: lcssrm 460 Seq: 10 08:25:48 06 May 15 HG
-296667/11-a@20
Hg 7.23 ppb 20532

=

==========

*** Sample ID: Seq: 11 08:28:03 06 May 15 HG
460-94099-f-9-a
Hg .355 ppb 1091

=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 12 08:30:25 06 May 15 HG
460-94099-f-9-b du
Hg .351 ppb 1080
=

*** Sample ID: Seq: 13 08:32:53 06 May 15 HG
460-94099-f-9-c ms
Hg 1.48 ppb 4283
=

*** Sample ID: Seq: 14 08:34:50 06 May 15 HG
460-94072-a-6-c
Hg 1.35 ppb 3905
=

*** Sample ID: Seq: 15 08:37:27 06 May 15 HG
460-94072-a-7-b
Hg .475 ppb 1432
=

*** Sample ID: Seq: 16 08:39:26 06 May 15 HG
460-94072-a-8-b
Hg .864 ppb 2531
=

*** Sample ID: Seq: 17 08:41:13 06 May 15 HG
460-94072-a-9-b
Hg .494 ppb 1483
=

*** Sample ID: Seq: 18 08:43:01 06 May 15 HG
460-94072-a-10-b
Hg 1.22 ppb 3529
=

*** Check Standard: 2 Ck2ACCV Seq: 19 08:44:48 06 May 15 HG
Line Flag Intensities
Hg 14725
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 20 08:46:51 06 May 15 HG
Line Flag Intensities
Hg 14
=

*** Sample ID: Seq: 21 08:48:50 06 May 15 HG
460-94072-a-11-b
Hg 1.91 ppb 5479
=

*** Sample ID: Seq: 22 08:50:42 06 May 15 HG
460-94072-a-12-b
Hg 1.01 ppb 2956
=

*** Sample ID: Seq: 23 08:52:48 06 May 15 HG
460-94072-a-13-b
Hg .767 ppb 2256
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 24 08:54:46 06 May 15 HG
460-94072-a-14-b
Hg .571 ppb 1701
=

*** Sample ID: Seq: 25 08:56:54 06 May 15 HG
460-94072-a-15-b
Hg .901 ppb 2636
=

*** Sample ID: Seq: 26 08:58:43 06 May 15 HG
460-94091-a-1-f
Hg .421 ppb 1279
=

*** Sample ID: Seq: 27 09:01:35 06 May 15 HG
460-94121-a-2-a
Hg 6.16 ppb 17510
=

*** Sample ID: Seq: 28 09:03:49 06 May 15 HG
460-94121-a-7-b
Hg 4.92 ppb 13989
=

*** Sample ID: Seq: 29 09:05:41 06 May 15 HG
460-94121-a-13-b
Hg 23.9 ppb 67644
=

*** Sample ID: Seq: 30 09:07:47 06 May 15 HG
460-94121-a-13-b@5
Hg 4.54 ppb 12933
=

*** Check Standard: 2 Ck2ACCV Seq: 31 09:10:15 06 May 15 HG
Line Flag Intensities
Hg 14946
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 32 09:12:48 06 May 15 HG
Line Flag Intensities
Hg -90
=

*** Sample ID: Seq: 33 09:15:19 06 May 15 HG
460-94136-g-1-b
Hg 3.29 ppb 9391
=

*** Sample ID: Seq: 34 09:17:07 06 May 15 HG
460-94140-a-1-h
Hg .020 ppb 144
=

*** Sample ID: Seq: 35 09:18:59 06 May 15 HG
460-94148-f-1-c
Hg 2.00 ppb 5732
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: Seq: 36 09:20:49 06 May 15 HG
460-94148-f-2-c
Hg .493 ppb 1481
=

*** Sample ID: Seq: 37 09:23:19 06 May 15 HG
460-94148-f-3-c
Hg .072 ppb 290
=

*** Sample ID: Seq: 38 09:26:36 06 May 15 HG
SD 460-94099-f-9-a@5
Hg -.017 ppb 38
=

*** Check Standard: 2 Ck2ACCV Seq: 39 09:28:29 06 May 15 HG
Line Flag Intensities
Hg 14880
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 40 09:30:19 06 May 15 HG
Line Flag Intensities
Hg 117
=

*** Sample ID: Seq: 41 09:32:04 06 May 15 HG
mb 460-296677/10-a
Hg -.049 ppb -52
=

==========

*** Sample ID: lcssrm 460 Seq: 42 09:34:06 06 May 15 HG
-296677/11-a@20
Hg 7.42 ppb 21070
=

==========

*** Sample ID: Seq: 43 09:36:08 06 May 15 HG
460-94148-f-5-g
Hg 4.98 ppb 14177
=

*** Sample ID: Seq: 44 09:38:04 06 May 15 HG
460-94148-a-5-c du
Hg 5.05 ppb 14367
=

*** Sample ID: Seq: 45 09:40:47 06 May 15 HG
460-94148-f-5-h ms
Hg 5.27 ppb 14980
=

*** Sample ID: Seq: 46 09:42:37 06 May 15 HG
460-94148-f-4-c
Hg .017 ppb 134
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 47 09:44:39 06 May 15 HG
460-94148-f-6-c
Hg .046 ppb 217
=

*** Sample ID: Seq: 48 09:46:49 06 May 15 HG
460-94148-f-7-c
Hg -.057 ppb -75
=

*** Sample ID: Seq: 49 09:48:50 06 May 15 HG
460-94170-a-3-c
Hg .216 ppb 698
=

*** Sample ID: Seq: 50 09:50:38 06 May 15 HG
460-94170-a-4-c
Hg .130 ppb 455
=

*** Check Standard: 2 Ck2ACCV Seq: 51 09:52:26 06 May 15 HG
Line Flag Intensities
Hg 14797
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 52 09:54:12 06 May 15 HG
Line Flag Intensities
Hg 72
=

*** Sample ID: Seq: 53 09:56:03 06 May 15 HG
460-94170-a-5-c
Hg -.007 ppb 68
=

*** Sample ID: Seq: 54 09:58:01 06 May 15 HG
460-94170-a-6-c
Hg .541 ppb 1617
=

*** Sample ID: Seq: 55 09:59:57 06 May 15 HG
460-94170-a-7-c
Hg .030 ppb 172
=

*** Sample ID: Seq: 56 10:01:44 06 May 15 HG
460-94170-a-8-c
Hg .297 ppb 928
=

*** Sample ID: Seq: 57 10:03:31 06 May 15 HG
460-94170-a-9-c
Hg .268 ppb 844
=

*** Sample ID: Seq: 58 10:05:33 06 May 15 HG
460-94170-a-10-c
Hg .012 ppb 120
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 59 10:07:35 06 May 15 HG
460-94170-a-11-c
Hg .224 ppb 722
=

*** Sample ID: Seq: 60 10:09:23 06 May 15 HG
460-94170-a-12-c
Hg .595 ppb 1770
=

*** Sample ID: Seq: 61 10:11:11 06 May 15 HG
460-94170-a-13-c
Hg .511 ppb 1533
=

*** Sample ID: Seq: 62 10:14:05 06 May 15 HG
460-94170-a-14-c
Hg .810 ppb 2379
=

*** Check Standard: 2 Ck2ACCV Seq: 63 10:15:56 06 May 15 HG
Line Flag Intensities
Hg 14780
=

*** Check Standard: 1 Ck1ICB/CCB Seq: 64 10:17:58 06 May 15 HG
Line Flag Intensities
Hg -71
=

*** Sample ID: Seq: 65 10:20:06 06 May 15 HG
460-94170-a-15-e
Hg .125 ppb 440
=

*** Sample ID: Seq: 66 10:21:57 06 May 15 HG
460-94176-a-1-i
Hg .774 ppb 2277
=

*** Sample ID: Seq: 67 10:23:45 06 May 15 HG
460-94191-f-9-b
Hg .111 ppb 400
=

*** Sample ID: Seq: 68 10:25:35 06 May 15 HG
460-94191-f-10-b
Hg .088 ppb 335
=

*** Sample ID: Seq: 69 10:28:06 06 May 15 HG
SD 460-94148-f-5-g@5
Hg .985 ppb 2872
=

*** Check Standard: 2 Ck2ACCV Seq: 70 10:30:58 06 May 15 HG
Line Flag Intensities
Hg 14937
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1ICB/CCB Seq: 71 10:32:51 06 May 15 HG
Line Flag Intensities
Hg -93
=
*** Sample ID: Seq: 72 10:35:40 06 May 15 HG
mb 460-296678/10-a
Hg -.011 ppb 56
=
==========
*** Sample ID: Icssrm 460 Seq: 73 10:37:27 06 May 15 HG
-296678/11-a@20
Hg 7.49 ppb 21275
=
==========
*** Sample ID: Seq: 74 10:39:24 06 May 15 HG
460-94211-a-1-a
Hg 2.26 ppb 6476
=
*** Sample ID: Seq: 75 10:41:15 06 May 15 HG
460-94211-a-1-b du
Hg 2.33 ppb 6671
=
*** Sample ID: Seq: 76 10:43:51 06 May 15 HG
460-94211-a-1-c ms
Hg 1.30 ppb 3754
=
*** Sample ID: Seq: 77 10:45:38 06 May 15 HG
460-94035-a-1-e
Hg .521 ppb 1562
=
*** Sample ID: Seq: 78 10:47:28 06 May 15 HG
460-94213-a-1-a
Hg 1.33 ppb 3857
=
*** Sample ID: Seq: 79 10:49:27 06 May 15 HG
460-94294-d-1-a
Hg -.020 ppb 30
=
*** Sample ID: Seq: 80 10:51:16 06 May 15 HG
460-94314-a-1-a
Hg -.023 ppb 22
=
*** Sample ID: Seq: 81 10:53:49 06 May 15 HG
SD 460-94211-a-1-a@5
Hg .438 ppb 1326
=

11:03:50 06 May 2015 Protocol: SW846A
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ACCV Seq: 82 10:55:37 06 May 15 HG

Line	Flag	Intensities
Hg		14922

=

*** Check Standard: 1 Ck1ICB/CCB Seq: 83 10:57:48 06 May 15 HG

Line	Flag	Intensities
Hg		-42

=

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-94062-1

SDG No.: 94062, 94148

Batch Number: 296045 Batch Start Date: 05/02/15 09:53 Batch Analyst: Martinez, Victor

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-94148-F-1	SB-47 (10-14)	Moisture	T	31	1.00 g	7.36 g	3.32 g	<50%	
460-94148-F-2	SB-47 (17-19)	Moisture	T	32	1.01 g	6.71 g	4.68 g		
460-94148-F-3	SB-47 (45-50)	Moisture	T	33	1.00 g	7.39 g	6.01 g		
460-94148-F-4	DUP-01	Moisture	T	34	0.96 g	8.16 g	6.53 g		
460-94148-F-5	SB-46 (11-15)	Moisture	T	35	1.02 g	8.12 g	6.54 g		
460-94148-F-5 MS	SB-46 (11-15)	Moisture	T	36	1.02 g	8.12 g	6.54 g		
460-94148-F-5 MSD	SB-46 (11-15)	Moisture	T	37	1.02 g	8.12 g	6.54 g		
460-94148-A-5 DU	SB-46 (11-15)	Moisture	T	38	1.02 g	8.12 g	6.54 g		
460-94148-F-6	SB-46 (45-50)	Moisture	T	39	0.99 g	6.91 g	5.77 g		
460-94148-F-7	SB-46 (40-43)	Moisture	T	40	0.95 g	7.00 g	6.11 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	5/2/15
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	10:22
Date samples were removed from oven	5/4/15
Oven Temp when samples removed from oven	105 Degrees C
Time Samples were removed from oven	08:04
Oven ID	3
ID number of the thermometer	92010
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	105 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
April 2015

April 24, 2014

Data Usability Summary Report

National Grid/Equity Former MGP Site Soil Vapor Intrusion TestAmerica-Knoxville Job ID: 140-2962-1 Final

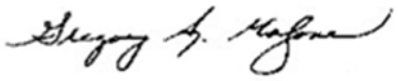
AECOM Environment

Submitted to:
National Grid
Brooklyn, New York

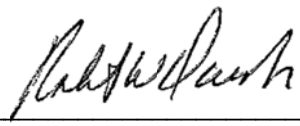
Submitted by:
AECOM
Pittsburgh, Pennsylvania
60137362-400
April 2015

Data Usability Summary Report

National Grid/Equity Former MGP Site Soil Vapor Intrusion TestAmerica-Knoxville Job ID: 140-2962-1 Final



Prepared By
Gregory Malzone, Project Chemist
AECOM
Gulf Tower
707 Grant Street, 5th floor
Pittsburgh, PA 15219



Reviewed By
Robert Davis, Data Validator/Database Technician
AECOM
1360 Peachtree Street NE, Suite 500
Atlanta, GA 30309

Contents

Executive Summary ES-1

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List of Appendices

Appendix A Glossary of Data Qualifier Codes

Appendix B Data Qualification Summaries

Appendix C Support Documentation

Executive Summary

Data validation was performed by Gregory A. Malzone of AECOM - Pittsburgh on one data report for the air and soil vapor samples collected at the Equity Former MGP Site in Brooklyn, NY. The samples were analyzed by TestAmerica Laboratories, Inc., 5815 Middlebrook Pike, Knoxville, TN, 37921 for volatile organic compounds using USEPA Compendium Method TO-15 and helium using ASTM Method D-1946.

The following samples were collected on March 25, 2015 and arrived at TestAmerica-Knoxville on March 31, 2015. The samples were assigned to TestAmerica-Knoxville sample delivery group (SDG) No. 140-2962-1.

Table 1
Sample Submittals – 2015 Equity SVI

Field ID	H2M ID	Matrix	Date Sampled	Canister ID
SG-A	140-2962-1	Soil Gas	3/25/2015	10267
IA-A	140-2962-2	Indoor Air	3/25/2015	11159
SG-B	140-2962-3	Soil Gas	3/25/2015	10261
IA-B	140-2962-4	Indoor Air	3/25/2015	10370
AIR-DUP-032515	140-2962-5	Indoor Air (QC)	3/25/2015	10683
OA-1-032515	140-2962-6	Ambient Air	3/25/2015	10026
SG-C	140-2962-7	Soil Gas	3/25/2015	10626
IA-C	140-2962-8	Indoor Air	3/25/2015	10390

The data were evaluated for conformance to method specifications and qualifiers were applied using the validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-07-003, July 2008, with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, EPA 540/R-99-008, May 1999, as they apply to the analytical methods employed.

Summary

Data quality for the organic analyses was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance standards, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantitation.

The data have been determined to be useable for the purpose of assessing the presence/absence and quantitative concentrations of the analytes in the media tested (i.e., air and soil vapor) with some qualifications. No data points were rejected. Completeness of 100% was achieved for this data set. This is within the goal of 90-100% and is acceptable. The data qualifier summaries are attached as Appendix B of this report. A glossary of data qualifier definitions is included in Appendix A of this report.

Each noncompliance with specific data usability criteria is discussed below. Support documentation for data qualifications was included in Appendix C of this report. Specific page references for the supporting documentation in the laboratory reports were provided in each item header.

1.0 Volatile Organic Compounds

140-2962-1

Blank Contamination (pp. 577-582, 586-591, 595-600): Methylene chloride was detected in method blanks MB140-2577/5 (04/01/15), MB 140-2593/5 (04/02/15) and MB 140-2608/4 (04/03/15) at concentrations less than the reporting limits. All samples were affected. Methylene chloride is a common laboratory solvent/contaminant. The positive methylene chloride results for samples SG-A, IA-A, SG-B, IA-B and AIR-DUP-032515 were less than four times the reporting and were qualified "U," as undetected at the reported concentration, because of laboratory contamination.

Methylene chloride was detected in method blanks MB140-2577/5 (04/01/15), MB 140-2593/5 (04/02/15) and MB 140-2608/4 (04/03/15) at concentrations less than the reporting limits. All samples were affected. Methylene chloride is a common laboratory solvent/contaminant. The positive methylene chloride results for samples OA-1-032515, SG-C and IA-C were less or equal to the the reporting and were qualified "U," as undetected at the reporting limit, because of laboratory contamination.

Calibrations (pp. 460, 540-542, 554-556): The 02/02/15 initial calibration relative standard deviation m&p-xylene was greater than the method specification limit of 30% on instrument MJ. All samples were affected. The positive m&p-xylene results for samples SG-A, IA-A, SG-B, IA-B, AIR-DUP-032515, OA-1-032515, SG-C and IA-C were qualified "J," as estimated concentrations, because of nonlinear calibration nonconformance.

The continuing calibration verification percent differences for carbon tetrachloride and 2-methylnaphthalene were less than the lower validation limit of -30% on 04/01/15 at 09:24 on instrument MJ. The positive and non-detect carbon tetrachloride and 2-methylnaphthalene results for associated samples SG-A, SG-B, IA-B, AIR-DUP-032515, OA-1-032515, SG-C and IA-C were qualified "J/UJ," as estimates, because of low instrument bias. Indene had a high instrument bias and was associated with non-detect results only. No data qualifications were required for indene.

Laboratory Control Sample Recovery (pp. 79-80): The LCS (LCS 140-2577/1002) recoveries for carbon tetrachloride and 2-methylnaphthalene were less than the lower validation limit of 70%, but greater than 50%. The positive and non-detect carbon tetrachloride and 2-methylnaphthalene results for associated samples SG-A, SG-B, IA-B, AIR-DUP-032515, OA-1-032515, SG-C and IA-C were qualified "J/UJ," as estimates, because of low instrument bias. Indene had a high recovery and was associated with non-detect results only. No data qualifications were required for indene.

Residual Vacuum Checks (p. 774): The residual vacuum measurement for sample SG-A was greater than 10" Hg, at 14.5" Hg upon receipt at TestAmerica-Knoxville. The flow rate was slow and less than five L of sample was collected. TestAmerica-Knoxville used a higher sample volume for analysis in order to achieve the project reporting limits. No data qualifications were required.

Dilutions (Form Is): Sample SG-A required analysis at a secondary dilution to bring the ethanol and acetone concentrations into the calibration range. Sample IA-C required analysis at a secondary dilution to bring the propene concentration into the calibration range. The 4-bromofluorobenzene surrogate recoveries were within the quality control limits for the dilution analyses. The dilution results were reported. No data qualifications were required.

Matrix Interference (p. 5): TestAmerica-Knoxville indicated in the case narrative that there was a significant contribution from an interfering non-target compound to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimates. The propene results for all samples were positive and were qualified "J+," as estimated concentrations, biased high because of matrix interference. Note: The propene result qualifiers for IA-B and AIR-DUP-032515 were changed from "J+" to "J" because of field duplicate imprecision (see item 3.0 below). The "J" qualifier takes precedence over the "J+" qualifier in the hierarchy of qualification.

2.0 Helium

140-2962-1

No data quality issues were noted. No data qualifications were required.

3.0 Field Duplicate Precision

A field duplicate sample was collected for sample IA-B. The results for the parent and field duplicate samples were non-detects, with exception to those listed in Table 2 below. The advisory limit for RPD is 25% for air/soil gas, or the difference between the primary and field duplicate results must be less than or equal to the reporting limit for results less than five times the reporting limit.

The primary and field duplicate results for acetone and propene required qualification (i.e., "J") as estimated concentrations, because of field sampling and/or laboratory imprecision and/or sample heterogeneity. See Table 2 below for details.

Table 2
Field Duplicate Precision – 2015 Equity SVI

Parameter	IA-B		AIR-DUP-032515		RPD (%)
Freon 113	0.54 J	µg/m3	0.49 J	µg/m3	10
1,2,4-Trimethylbenzene	1.5	µg/m3	1.3	µg/m3	14
1,2-Dichloroethane	0.62 J	µg/m3	0.54 J	µg/m3	14
1,3,5-Trimethylbenzene	0.39 J	µg/m3	0.34 J	µg/m3	14
2,2,4-Trimethylpentane	1.1 J	µg/m3	1.0 J	µg/m3	10
2-Butanone	3.4	µg/m3	5.8	µg/m3	52*
2-Hexanone	2.0 U	µg/m3	0.47 J	µg/m3	NC*
2-Methylpentane	2.1	µg/m3	2.0	µg/m3	5
2-Propanol	5.8	µg/m3	6.4	µg/m3	10
4-Ethyltoluene	0.48 J	µg/m3	0.58 J	µg/m3	19
4-Methyl-2-pentanone	0.85 J	µg/m3	0.95 J	µg/m3	11
Acetone	**16**	**µg/m3**	**35**	**µg/m3**	**75**
Benzene	1.8	µg/m3	1.6	µg/m3	12
Carbon tetrachloride	0.52 J	µg/m3	0.52 J	µg/m3	0
Chloroform	0.22 J	µg/m3	0.19 J	µg/m3	15
Chloromethane	1.4	µg/m3	1.2	µg/m3	15
Cyclohexane	0.77 J	µg/m3	0.76 J	µg/m3	1.3
Dichlorodifluoromethane	2.4	µg/m3	2.4	µg/m3	0
Ethanol	130	µg/m3	120	µg/m3	8.0
Ethylbenzene	5.1	µg/m3	4.2	µg/m3	19
Heptane	1.2 J	µg/m3	1.1 J	µg/m3	8.7
Hexane	1.9	µg/m3	1.8	µg/m3	5.4
Isopentane	98	µg/m3	87	µg/m3	12
m&p-Xylenes	9.8	µg/m3	8.1	µg/m3	19
o-Xylene	3.6	µg/m3	3.1	µg/m3	15
Propene	**2.7**	**µg/m3**	**3.7**	**µg/m3**	**31**

Table 2 (Continued)
Field Duplicate Precision – 2015 Equity SVI

Parameter	IA-B		AIR-DUP-032515		RPD (%)
Styrene	5.3	µg/m3	4.6	µg/m3	14
Tetrachloroethene	1.1 J	µg/m3	0.78 J	µg/m3	34*
Tetrahydrofuran	0.31 J	µg/m3	2.9 U	µg/m3	NC*
Toluene	35	µg/m3	28	µg/m3	22
Trichloroethene	0.48 J	µg/m3	0.45 J	µg/m3	6.5
Trichlorofluoromethane	1.3	µg/m3	1.2	µg/m3	8.0

RPD: Relative percent difference

NC: RPD could not be calculated

*: The difference between the parent and field duplicate results was less than the reporting limit for results less than five times the reporting limit. Variation of this magnitude is acceptable.

4.0 Notes

Positive results less than the reporting limit (i.e., practical quantitation limit or PQL), but greater than the method detection limit (MDL) were qualified "J," as estimated concentrations, due to increased uncertainty near the detection limit. These data qualifications were retained in this data validation.

TestAmerica-Knoxville indicated that a method detection limit study has not been performed for the non-routine target compounds listed below. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results were reported that were less than the reporting limits for these compounds.

2,3-Dimethylpentane
Ethanol
Indane
Indene
1-Methylnaphthalene
2-Methylnaphthalene
1,2,4,5-Tetramethylbenzene
Thiophene
1,2,3-Trimethylbenzene
2-Methylpentane

Appendix A

Glossary of Data Qualifier Codes

Glossary of Data Qualifier Codes

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but may be biased high.

J- The result is an estimated quantity, but may be biased low.

R The data are unusable. The sample results are rejected due to serious deficiencies in the ability to meet quality control criteria. The presence or absence of the analyte cannot be verified.

N (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NJ (Organics) The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Appendix B

Data Qualification Summaries

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A Lab Sample ID: 140-2962-1

Matrix: Air Lab File ID: JD01P101.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: Dilution Factor: 2.86

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	3.7		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.18	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	0.32		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.70		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	0.050	J	0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.21		0.20	0.065	
106-99-0	1,3-Butadiene	54.09	0.33	J	0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	0.089	J	0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.17	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	8.6		1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	0.13	J	0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, lcs
107-83-5	2-Methylpentane	86.18	0.47		0.20	0.20	
67-63-0	2-Propanol	60.10	43		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.36	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.40	J	0.50	0.045	
~~67-64-1~~	~~Acetone~~	~~58.08~~	~~140~~	~~E~~	~~5.0~~	~~1.4~~	
71-43-2	Benzene	78.11	1.3		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A | Lab Sample ID: 140-2962-1

Matrix: Air | Lab File ID: JD01P101.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) | Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 2.86

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	2.6		0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	ND	UJ	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	0.34		0.20	0.038	
74-87-3	Chloromethane	50.49	0.25	J	0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.54		0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	4.0		0.20	0.068	
~~64-17-5~~	~~Ethanol~~	~~46.07~~	~~420~~	~~E~~	~~2.0~~	~~2.0~~	
100-41-4	Ethylbenzene	106.17	1.1		0.20	0.068	
142-82-5	Heptane	100.21	0.44	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.57		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	11		0.50	0.031	
75-09-2	Methylene Chloride	84.93	0.95	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	2.9	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	1.0		0.20	0.061	
115-07-1	Propene	42.08	5.3	J+	0.50	0.077	MI
100-42-5	Styrene	104.15	1.2		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.33		0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.39	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	7.3		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A | Lab Sample ID: 140-2962-1

Matrix: Air | Lab File ID: JD01P101.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) | Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 2.86

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.061	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	15		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A | Lab Sample ID: 140-2962-1

Matrix: Air | Lab File ID: JD01P101.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) | Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 2.86

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	20		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	1.4	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	1.6		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	3.4		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	0.20	J	0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	1.0		0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.74	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.54	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	0.79	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	25		2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	0.54	J	2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15
107-83-5	2-Methylpentane	86.18	1.7		0.70	0.70
67-63-0	2-Propanol	60.10	110		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	1.8	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.6	J	2.0	0.18
~~67-64-1~~	~~Acetone~~	~~58.08~~	~~340~~	~~E~~	~~12~~	~~3.3~~
71-43-2	Benzene	78.11	4.0		0.64	0.18

ccv, lcs

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A Lab Sample ID: 140-2962-1

Matrix: Air Lab File ID: JD01P101.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: Dilution Factor: 2.86

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	8.2		1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	ND	UJ	1.3	0.24	ccv, lcs
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	1.7		0.98	0.19	
74-87-3	Chloromethane	50.49	0.51	J	1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	1.9		1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	20		0.99	0.34	
~~64-17-5~~	~~Ethanol~~	~~46.07~~	~~790~~	~~E~~	~~3.8~~	~~3.8~~	
100-41-4	Ethylbenzene	106.17	4.7		0.87	0.30	
142-82-5	Heptane	100.21	1.8	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	2.0		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	32		1.5	0.091	
75-09-2	Methylene Chloride	84.93	3.3	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	13	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	4.5		0.87	0.26	
115-07-1	Propene	42.08	9.2	J+	0.86	0.13	MI
100-42-5	Styrene	104.15	4.9		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	2.2		1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	1.2	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	27		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A | Lab Sample ID: 140-2962-1

Matrix: Air | Lab File ID: JD01P101.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 17:00

Sample wt/vol: 572(mL) | Date Analyzed: 04/01/2015 14:21

Soil Aliquot Vol: | Dilution Factor: 2.86

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.33	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	86		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A DL Lab Sample ID: 140-2962-1 DL

Matrix: Air Lab File ID: JD02P101.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:00

Sample wt/vol: 150(mL) Date Analyzed: 04/02/2015 13:49

Soil Aliquot Vol: Dilution Factor: 2.86

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	130		19	5.3
64-17-5	Ethanol	46.07	640		7.6	7.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A DL Lab Sample ID: 140-2962-1 DL

Matrix: Air Lab File ID: JD02P101.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:00

Sample wt/vol: 150(mL) Date Analyzed: 04/02/2015 13:49

Soil Aliquot Vol: Dilution Factor: 2.86

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
67-64-1	Acetone	58.08	300		45	13
64-17-5	Ethanol	46.07	1200		14	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A | Lab Sample ID: 140-2962-2

Matrix: Air | Lab File ID: JD02P102DU.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2593 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.062	J	0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	0.44		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	0.093	J	0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	0.12	J	0.20	0.065
106-99-0	1,3-Butadiene	54.09	0.16	J	0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	0.12	J	0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5
540-84-1	2,2,4-Trimethylpentane	114.23	0.27	J	0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	3.4		1.0	0.20
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063
591-78-6	2-Hexanone	100.20	0.33	J	0.50	0.058
91-57-6	2-Methylnaphthalene	142.20	ND		2.5	2.5
107-83-5	2-Methylpentane	86.18	0.63		0.20	0.20
67-63-0	2-Propanol	60.10	77		2.0	0.094
622-96-8	4-Ethyltoluene	120.20	0.21	J	0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.44	J	0.50	0.045
67-64-1	Acetone	58.08	27		5.0	1.4
71-43-2	Benzene	78.11	0.52		0.20	0.056

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A | Lab Sample ID: 140-2962-2

Matrix: Air | Lab File ID: JD02P102DU.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2593 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.081	J	0.20	0.038	
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	0.047	J	0.20	0.038	
74-87-3	Chloromethane	50.49	0.55		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.39	J	0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.47		0.20	0.068	
64-17-5	Ethanol	46.07	59		2.0	2.0	
100-41-4	Ethylbenzene	106.17	1.2		0.20	0.068	
142-82-5	Heptane	100.21	0.37	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.68		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	34		0.50	0.031	
75-09-2	Methylene Chloride	84.93	1.8	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	2.9	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	1.0		0.20	0.061	
115-07-1	Propene	42.08	2.7	~~on~~ J+	0.50	0.077	M1
100-42-5	Styrene	104.15	1.4		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.19	J	0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.20	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	8.3		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A Lab Sample ID: 140-2962-2

Matrix: Air Lab File ID: JD02P102DU.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.081	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.24		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A Lab Sample ID: 140-2962-2

Matrix: Air Lab File ID: JD02P102DU.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.47	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	2.2		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	0.38	J	0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	0.61	J	0.98	0.32
106-99-0	1,3-Butadiene	54.09	0.35	J	0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	0.70	J	1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	1.3	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	10		2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	1.3	J	2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND		15	15
107-83-5	2-Methylpentane	86.18	2.2		0.70	0.70
67-63-0	2-Propanol	60.10	190		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	1.1	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	1.8	J	2.0	0.18
67-64-1	Acetone	58.08	63		12	3.3
71-43-2	Benzene	78.11	1.7		0.64	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A Lab Sample ID: 140-2962-2

Matrix: Air Lab File ID: JD02P102DU.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.51	J	1.3	0.24	
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	0.23	J	0.98	0.19	
74-87-3	Chloromethane	50.49	1.1		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	1.3	J	1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.3		0.99	0.34	
64-17-5	Ethanol	46.07	110		3.8	3.8	
100-41-4	Ethylbenzene	106.17	5.2		0.87	0.30	
142-82-5	Heptane	100.21	1.5	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	2.4		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	100		1.5	0.091	
75-09-2	Methylene Chloride	84.93	6.3	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	13	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	4.5		0.87	0.26	
115-07-1	Propene	42.08	4.7	~~J~~ J+	0.86	0.13	M1
100-42-5	Styrene	104.15	6.0		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	1.3	J	1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	0.60	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	31		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-A Lab Sample ID: 140-2962-2

Matrix: Air Lab File ID: JD02P102DU.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:00

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.44	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.4		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B | Lab Sample ID: 140-2962-3

Matrix: Air | Lab File ID: JD01P103.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	0.30		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.14	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	0.26		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.46		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	0.056	J	0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	0.067	J	0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.14	J	0.20	0.065	
106-99-0	1,3-Butadiene	54.09	0.25	J	0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.11	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	1.6		1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	0.13	J	0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, LCS
107-83-5	2-Methylpentane	86.18	0.32		0.20	0.20	
67-63-0	2-Propanol	60.10	8.5		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.17	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.22	J	0.50	0.045	
67-64-1	Acetone	58.08	19		5.0	1.4	
71-43-2	Benzene	78.11	1.3		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: JD01P103.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	0.22	J	0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.040	J	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	0.20		0.20	0.038	
74-87-3	Chloromethane	50.49	0.54		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.39	J	0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.84		0.20	0.068	
64-17-5	Ethanol	46.07	100		2.0	2.0	
100-41-4	Ethylbenzene	106.17	0.79		0.20	0.068	
142-82-5	Heptane	100.21	0.26	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.35	J	0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	6.6		0.50	0.031	
75-09-2	Methylene Chloride	84.93	0.64	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	1.7	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.58		0.20	0.061	
115-07-1	Propene	42.08	1.6	J+	0.50	0.077	MI
100-42-5	Styrene	104.15	0.92		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.32		0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.15	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	6.3		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: JD01P103.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.049	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	3.0		0.20	0.024
75-01-4	Vinyl chloride	62.50	0.097	J	0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: JD01P103.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	1.6		1.1	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	1.0	J	1.5	0.24	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29	
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11	
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13	
526-73-8	1,2,3-Trimethylbenzene	120.19	1.3		0.98	0.98	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73	
95-63-6	1,2,4-Trimethylbenzene	120.20	2.2		0.98	0.31	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	0.39	J	1.4	0.22	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42	
107-06-2	1,2-Dichloroethane	98.96	0.27	J	0.81	0.19	
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.67	J	0.98	0.32	
106-99-0	1,3-Butadiene	54.09	0.56	J	0.88	0.14	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39	
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38	
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29	
90-12-0	1-Methylnaphthalene	142.20	ND		15	15	
540-84-1	2,2,4-Trimethylpentane	114.23	0.54	J	2.3	0.18	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82	
78-93-3	2-Butanone (MEK)	72.11	4.7		2.9	0.59	
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33	
591-78-6	2-Hexanone	100.20	0.54	J	2.0	0.24	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15	CCV, LCS
107-83-5	2-Methylpentane	86.18	1.1		0.70	0.70	
67-63-0	2-Propanol	60.10	21		4.9	0.23	
622-96-8	4-Ethyltoluene	120.20	0.85	J	2.0	0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.91	J	2.0	0.18	
67-64-1	Acetone	58.08	45		12	3.3	
71-43-2	Benzene	78.11	4.2		0.64	0.18	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: JD01P103.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	0.68	J	1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.25	J	1.3	0.24	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	0.97		0.98	0.19	
74-87-3	Chloromethane	50.49	1.1		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	1.3	J	1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	4.2		0.99	0.34	
64-17-5	Ethanol	46.07	190		3.8	3.8	
100-41-4	Ethylbenzene	106.17	3.4		0.87	0.30	
142-82-5	Heptane	100.21	1.1	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	1.2	J	1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	20		1.5	0.091	
75-09-2	Methylene Chloride	84.93	2.2	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	7.3	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	2.5		0.87	0.26	
115-07-1	Propene	42.08	2.7	J+	0.86	0.13	MI
100-42-5	Styrene	104.15	3.9		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	2.2		1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	0.45	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	24		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: JD01P103.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:05

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.26	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	17		1.1	0.13
75-01-4	Vinyl chloride	62.50	0.25	J	0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B Lab Sample ID: 140-2962-4

Matrix: Air Lab File ID: JD01P104.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.070	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.31		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	0.15	J	0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.078	J	0.20	0.065	
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.24	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	1.1		1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	ND		0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, lcs
107-83-5	2-Methylpentane	86.18	0.59		0.20	0.20	
67-63-0	2-Propanol	60.10	2.3		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.098	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.21	J	0.50	0.045	
67-64-1	Acetone	58.08	6.7	J	5.0	1.4	FD
71-43-2	Benzene	78.11	0.56		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B | Lab Sample ID: 140-2962-4

Matrix: Air | Lab File ID: JD01P104.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.083	J	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	0.046	J	0.20	0.038	
74-87-3	Chloromethane	50.49	0.65		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.23	J	0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.48		0.20	0.068	
64-17-5	Ethanol	46.07	71		2.0	2.0	
100-41-4	Ethylbenzene	106.17	1.2		0.20	0.068	
142-82-5	Heptane	100.21	0.30	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.53		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	33		0.50	0.031	
75-09-2	Methylene Chloride	84.93	1.4	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	2.2	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.84		0.20	0.061	
115-07-1	Propene	42.08	1.6	~~on~~ J	0.50	0.077	FD, MI
100-42-5	Styrene	104.15	1.3		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.16	J	0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.10	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	9.3		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B Lab Sample ID: 140-2962-4

Matrix: Air Lab File ID: JD01P104.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.089	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.22		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B Lab Sample ID: 140-2962-4

Matrix: Air Lab File ID: JD01P104.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.54	J	1.5	0.24	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29	
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11	
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.5		0.98	0.31	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42	
107-06-2	1,2-Dichloroethane	98.96	0.62	J	0.81	0.19	
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.39	J	0.98	0.32	
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39	
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38	
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29	
90-12-0	1-Methylnaphthalene	142.20	ND		15	15	
540-84-1	2,2,4-Trimethylpentane	114.23	1.1	J	2.3	0.18	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82	
78-93-3	2-Butanone (MEK)	72.11	3.4		2.9	0.59	
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33	
591-78-6	2-Hexanone	100.20	ND		2.0	0.24	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15	CCV, LCS
107-83-5	2-Methylpentane	86.18	2.1		0.70	0.70	
67-63-0	2-Propanol	60.10	5.8		4.9	0.23	
622-96-8	4-Ethyltoluene	120.20	0.48	J	2.0	0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.85	J	2.0	0.18	
67-64-1	Acetone	58.08	16	J	12	3.3	FD
71-43-2	Benzene	78.11	1.8		0.64	0.18	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B Lab Sample ID: 140-2962-4

Matrix: Air Lab File ID: JD01P104.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.52	J	1.3	0.24	ccv, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	0.22	J	0.98	0.19	
74-87-3	Chloromethane	50.49	1.4		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	0.77	J	1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34	
64-17-5	Ethanol	46.07	130		3.8	3.8	
100-41-4	Ethylbenzene	106.17	5.1		0.87	0.30	
142-82-5	Heptane	100.21	1.2	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	1.9		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	98		1.5	0.091	
75-09-2	Methylene Chloride	84.93	4.9	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	9.8	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	3.6		0.87	0.26	
115-07-1	Propene	42.08	2.7	~~on~~ J	0.86	0.13	FD, MI
100-42-5	Styrene	104.15	5.3		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	1.1	J	1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	0.31	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	35		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-B Lab Sample ID: 140-2962-4

Matrix: Air Lab File ID: JD01P104.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:50

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.48	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.3		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 | Lab Sample ID: 140-2962-5

Matrix: Air | Lab File ID: JD01P105.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.064	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.26		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	0.13	J	0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.068	J	0.20	0.065	
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.22	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	2.0		1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	0.11	J	0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	CCV, LCS
107-83-5	2-Methylpentane	86.18	0.56		0.20	0.20	
67-63-0	2-Propanol	60.10	2.6		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.12	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.23	J	0.50	0.045	
67-64-1	Acetone	58.08	15	J	5.0	1.4	FD
71-43-2	Benzene	78.11	0.49		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 Lab Sample ID: 140-2962-5

Matrix: Air Lab File ID: JD01P105.D

Analysis Method: TO-15 Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.082	J	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	0.039	J	0.20	0.038	
74-87-3	Chloromethane	50.49	0.58		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.22	J	0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.49		0.20	0.068	
64-17-5	Ethanol	46.07	65		2.0	2.0	
100-41-4	Ethylbenzene	106.17	0.97		0.20	0.068	
142-82-5	Heptane	100.21	0.27	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.52		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	30		0.50	0.031	
75-09-2	Methylene Chloride	84.93	1.3	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	1.9	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.72		0.20	0.061	
115-07-1	Propene	42.08	2.2	~~en~~ J	0.50	0.077	FD
100-42-5	Styrene	104.15	1.1		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.12	J	0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	7.5		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 Lab Sample ID: 140-2962-5

Matrix: Air Lab File ID: JD01P105.D

Analysis Method: TO-15 Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.084	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 | Lab Sample ID: 140-2962-5

Matrix: Air | Lab File ID: JD01P105.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.49	J	1.5	0.24	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29	
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11	
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73	
95-63-6	1,2,4-Trimethylbenzene	120.20	1.3		0.98	0.31	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42	
107-06-2	1,2-Dichloroethane	98.96	0.54	J	0.81	0.19	
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.34	J	0.98	0.32	
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39	
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38	
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29	
90-12-0	1-Methylnaphthalene	142.20	ND		15	15	
540-84-1	2,2,4-Trimethylpentane	114.23	1.0	J	2.3	0.18	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82	
78-93-3	2-Butanone (MEK)	72.11	5.8		2.9	0.59	
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33	
591-78-6	2-Hexanone	100.20	0.47	J	2.0	0.24	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15	CCV, LCS
107-83-5	2-Methylpentane	86.18	2.0		0.70	0.70	
67-63-0	2-Propanol	60.10	6.4		4.9	0.23	
622-96-8	4-Ethyltoluene	120.20	0.58	J	2.0	0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.95	J	2.0	0.18	
67-64-1	Acetone	58.08	35	J	12	3.3	FD
71-43-2	Benzene	78.11	1.6		0.64	0.18	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 Lab Sample ID: 140-2962-5

Matrix: Air Lab File ID: JD01P105.D

Analysis Method: TO-15 Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.52	J	1.3	0.24	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	0.19	J	0.98	0.19	
74-87-3	Chloromethane	50.49	1.2		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	0.76	J	1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.4		0.99	0.34	
64-17-5	Ethanol	46.07	120		3.8	3.8	
100-41-4	Ethylbenzene	106.17	4.2		0.87	0.30	
142-82-5	Heptane	100.21	1.1	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	1.8		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	87		1.5	0.091	
75-09-2	Methylene Chloride	84.93	4.6	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	8.1	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	3.1		0.87	0.26	
115-07-1	Propene	42.08	3.7	~~en~~ J	0.86	0.13	FD, MI
100-42-5	Styrene	104.15	4.6		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	0.78	J	1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	28		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: AIR-DUP-032515 Lab Sample ID: 140-2962-5

Matrix: Air Lab File ID: JD01P105.D

Analysis Method: TO-15 Date Collected: 03/25/2015 00:00

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 17:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.45	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: OA-1-032515 | Lab Sample ID: 140-2962-6

Matrix: Air | Lab File ID: JD01P106.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 17:10

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 18:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.10	J	0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065	
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.15	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	0.91	J	1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	ND		0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, LCS
107-83-5	2-Methylpentane	86.18	0.26		0.20	0.20	
67-63-0	2-Propanol	60.10	0.91	J	2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.063	J	0.50	0.045	
67-64-1	Acetone	58.08	8.3		5.0	1.4	
71-43-2	Benzene	78.11	0.33		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: OA-1-032515 Lab Sample ID: 140-2962-6

Matrix: Air Lab File ID: JD01P106.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:10

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 18:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.079	J	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	ND		0.20	0.038	
74-87-3	Chloromethane	50.49	0.59		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.11	J	0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068	
64-17-5	Ethanol	46.07	49		2.0	2.0	
100-41-4	Ethylbenzene	106.17	0.13	J	0.20	0.068	
142-82-5	Heptane	100.21	0.16	J	0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	0.25	J	0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	1.1		0.50	0.031	
75-09-2	Methylene Chloride	84.93	0.50 U ~~0.39~~	~~J B~~	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	0.42	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.14	J	0.20	0.061	
115-07-1	Propene	42.08	1.1	~~cn~~ J+	0.50	0.077	MI
100-42-5	Styrene	104.15	ND		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	0.060	J	0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	0.72		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: OA-1-032515 Lab Sample ID: 140-2962-6

Matrix: Air Lab File ID: JD01P106.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:10

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 18:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	0.063	J	0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: OA-1-032515 Lab Sample ID: 140-2962-6

Matrix: Air Lab File ID: JD01P106.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:10

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 18:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.51	J	1.5	0.24	
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29	
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11	
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.50	J	0.98	0.31	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22	
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42	
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19	
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32	
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14	
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39	
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38	
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29	
90-12-0	1-Methylnaphthalene	142.20	ND		15	15	
540-84-1	2,2,4-Trimethylpentane	114.23	0.69	J	2.3	0.18	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82	
78-93-3	2-Butanone (MEK)	72.11	2.7	J	2.9	0.59	
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33	
591-78-6	2-Hexanone	100.20	ND		2.0	0.24	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15	ccv, LCS
107-83-5	2-Methylpentane	86.18	0.92		0.70	0.70	
67-63-0	2-Propanol	60.10	2.2	J	4.9	0.23	
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.26	J	2.0	0.18	
67-64-1	Acetone	58.08	20		12	3.3	
71-43-2	Benzene	78.11	1.0		0.64	0.18	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1
SDG No.:
Client Sample ID: OA-1-032515 | Lab Sample ID: 140-2962-6
Matrix: Air | Lab File ID: JD01P106.D
Analysis Method: TO-15 | Date Collected: 03/25/2015 17:10
Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 18:54
Soil Aliquot Vol: | Dilution Factor: 1
Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.50	J	1.3	0.24	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	ND		0.98	0.19	
74-87-3	Chloromethane	50.49	1.2		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	0.36	J	1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34	
64-17-5	Ethanol	46.07	92		3.8	3.8	
100-41-4	Ethylbenzene	106.17	0.57	J	0.87	0.30	
142-82-5	Heptane	100.21	0.66	J	2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	0.88	J	1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	3.1		1.5	0.091	
75-09-2	Methylene Chloride	84.93	1.7 U ~~1.4~~	~~J B~~	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	1.8	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	0.62	J	0.87	0.26	
115-07-1	Propene	42.08	1.9	~~or~~ J+	0.86	0.13	HI
100-42-5	Styrene	104.15	ND		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	0.41	J	1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	2.7		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: OA-1-032515 Lab Sample ID: 140-2962-6

Matrix: Air Lab File ID: JD01P106.D

Analysis Method: TO-15 Date Collected: 03/25/2015 17:10

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 18:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	0.34	J	1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: JD01P107.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	0.090	J	0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.066	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065	
106-99-0	1,3-Butadiene	54.09	1.7		0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.089	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	0.64	J	1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	ND		0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, LCS
107-83-5	2-Methylpentane	86.18	0.43		0.20	0.20	
67-63-0	2-Propanol	60.10	2.0		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.088	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.18	J	0.50	0.045	
67-64-1	Acetone	58.08	5.9		5.0	1.4	
71-43-2	Benzene	78.11	1.7		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: JD01P107.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	0.29	J	0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.052	J ✓	0.20	0.038	ccv, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	ND		0.20	0.038	
74-87-3	Chloromethane	50.49	0.29	J	0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.93		0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.44		0.20	0.068	
64-17-5	Ethanol	46.07	43		2.0	2.0	
100-41-4	Ethylbenzene	106.17	0.36		0.20	0.068	
142-82-5	Heptane	100.21	2.3		0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	1.1		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	2.8		0.50	0.031	
75-09-2	Methylene Chloride	84.93	0.50U ~~0.31~~	~~J B~~	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	0.81	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.29		0.20	0.061	
115-07-1	Propene	42.08	23	J+	0.50	0.077	MI
100-42-5	Styrene	104.15	0.54		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	3.6		0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.091	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	2.6		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: JD01P107.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.29		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C | Lab Sample ID: 140-2962-7

Matrix: Air | Lab File ID: JD01P107.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	0.49	J	1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.50	J	1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	1.0		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	3.7		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	0.42	J	2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	1.9	J	2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	15	15
107-83-5	2-Methylpentane	86.18	1.5		0.70	0.70
67-63-0	2-Propanol	60.10	5.0		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	0.43	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.72	J	2.0	0.18
67-64-1	Acetone	58.08	14		12	3.3
71-43-2	Benzene	78.11	5.6		0.64	0.18

CCV, LCS

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: JD01P107.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	0.90	J	1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.33	J	1.3	0.24	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	ND		0.98	0.19	
74-87-3	Chloromethane	50.49	0.59	J	1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	3.2		1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.2		0.99	0.34	
64-17-5	Ethanol	46.07	81		3.8	3.8	
100-41-4	Ethylbenzene	106.17	1.5		0.87	0.30	
142-82-5	Heptane	100.21	9.2		2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	4.0		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	8.3		1.5	0.091	
75-09-2	Methylene Chloride	84.93	1.7 U ~~1.1~~	~~J B~~	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	3.5	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	1.2		0.87	0.26	
115-07-1	Propene	42.08	39	J+	0.86	0.13	MI
100-42-5	Styrene	104.15	2.3		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	24		1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	0.27	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	9.7		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: JD01P107.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:30

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 19:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.6		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C Lab Sample ID: 140-2962-8

Matrix: Air Lab File ID: JD01P108.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:25

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030	
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	0.063	J	0.20	0.031	
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054	
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026	
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034	
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20	
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20	
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098	
95-63-6	1,2,4-Trimethylbenzene	120.20	0.28		0.20	0.063	
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032	
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070	
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047	
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052	
108-67-8	1,3,5-Trimethylbenzene	120.20	0.076	J	0.20	0.065	
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064	
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065	
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064	
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080	
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5	
540-84-1	2,2,4-Trimethylpentane	114.23	0.19	J	0.50	0.039	
565-59-3	2,3-Dimethylpentane	100.20	0.45		0.20	0.20	
78-93-3	2-Butanone (MEK)	72.11	1.3		1.0	0.20	
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063	
591-78-6	2-Hexanone	100.20	ND		0.50	0.058	
91-57-6	2-Methylnaphthalene	142.20	ND	UJ	2.5	2.5	ccv, LCS
107-83-5	2-Methylpentane	86.18	1.5		0.20	0.20	
67-63-0	2-Propanol	60.10	2.1		2.0	0.094	
622-96-8	4-Ethyltoluene	120.20	0.11	J	0.40	0.066	
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	0.17	J	0.50	0.045	
67-64-1	Acetone	58.08	14		5.0	1.4	
71-43-2	Benzene	78.11	0.52		0.20	0.056	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C Lab Sample ID: 140-2962-8

Matrix: Air Lab File ID: JD01P108.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:25

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078	
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044	
75-25-2	Bromoform	252.75	ND		0.20	0.048	
74-83-9	Bromomethane	94.94	ND		0.20	0.032	
75-15-0	Carbon disulfide	76.14	0.24	J	0.50	0.031	
56-23-5	Carbon tetrachloride	153.81	0.068	J	0.20	0.038	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049	
75-00-3	Chloroethane	64.52	ND		0.20	0.035	
67-66-3	Chloroform	119.38	ND		0.20	0.038	
74-87-3	Chloromethane	50.49	ND		0.50	0.16	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074	
110-82-7	Cyclohexane	84.16	0.55		0.50	0.040	
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042	
75-71-8	Dichlorodifluoromethane	120.91	0.41		0.20	0.068	
64-17-5	Ethanol	46.07	28		2.0	2.0	
100-41-4	Ethylbenzene	106.17	0.44		0.20	0.068	
142-82-5	Heptane	100.21	5.7		0.50	0.047	
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078	
110-54-3	Hexane	86.17	4.6		0.50	0.032	
496-11-7	Indane	118.18	ND		0.20	0.20	
95-13-6	Indene	116.16	ND		0.40	0.40	
78-78-4	Isopentane	72.15	12		0.50	0.031	
75-09-2	Methylene Chloride	84.93	0.50	~~B~~ U	0.50	0.13	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17	
179601-23-1	m-Xylene & p-Xylene	106.17	0.95	J	0.20	0.12	ICAL
91-20-3	Naphthalene	128.17	ND		0.50	0.090	
95-47-6	o-Xylene	106.17	0.36		0.20	0.061	
~~115-07-1~~	~~Propene~~	~~42.08~~	~~61~~	~~E on~~	~~0.50~~	~~0.077~~	
100-42-5	Styrene	104.15	0.78		0.20	0.058	
127-18-4	Tetrachloroethene	165.83	5.1		0.20	0.040	
109-99-9	Tetrahydrofuran	72.11	0.17	J	1.0	0.063	
110-02-1	Thiophene	84.14	ND		0.20	0.20	
108-88-3	Toluene	92.14	2.6		0.20	0.12	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050	

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C Lab Sample ID: 140-2962-8

Matrix: Air Lab File ID: JD01P108.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:25

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	0.20		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C | Lab Sample ID: 140-2962-8

Matrix: Air | Lab File ID: JD01P108.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:25

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 20:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40	
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29	
75-25-2	Bromoform	252.75	ND		2.1	0.50	
74-83-9	Bromomethane	94.94	ND		0.78	0.12	
75-15-0	Carbon disulfide	76.14	0.73	J	1.6	0.097	
56-23-5	Carbon tetrachloride	153.81	0.43	J	1.3	0.24	CCV, LCS
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23	
75-00-3	Chloroethane	64.52	ND		0.53	0.092	
67-66-3	Chloroform	119.38	ND		0.98	0.19	
74-87-3	Chloromethane	50.49	ND		1.0	0.33	
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24	
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34	
110-82-7	Cyclohexane	84.16	1.9		1.7	0.14	
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36	
75-71-8	Dichlorodifluoromethane	120.91	2.0		0.99	0.34	
64-17-5	Ethanol	46.07	54		3.8	3.8	
100-41-4	Ethylbenzene	106.17	1.9		0.87	0.30	
142-82-5	Heptane	100.21	23		2.0	0.19	
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83	
110-54-3	Hexane	86.17	16		1.8	0.11	
496-11-7	Indane	118.18	ND		0.97	0.97	
95-13-6	Indene	116.16	ND		1.9	1.9	
78-78-4	Isopentane	72.15	34		1.5	0.091	
75-09-2	Methylene Chloride	84.93	1.7	~~B~~ U	1.7	0.45	MB
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61	
179601-23-1	m-Xylene & p-Xylene	106.17	4.1	J	0.87	0.52	ICAL
91-20-3	Naphthalene	128.17	ND		2.6	0.47	
95-47-6	o-Xylene	106.17	1.6		0.87	0.26	
~~115-07-1~~	~~Propene~~	~~42.08~~	~~100~~	~~E cn~~	~~0.86~~	~~0.13~~	
100-42-5	Styrene	104.15	3.3		0.85	0.25	
127-18-4	Tetrachloroethene	165.83	35		1.4	0.27	
109-99-9	Tetrahydrofuran	72.11	0.51	J	2.9	0.19	
110-02-1	Thiophene	84.14	ND		0.69	0.69	
108-88-3	Toluene	92.14	10		0.75	0.45	
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C Lab Sample ID: 140-2962-8

Matrix: Air Lab File ID: JD01P108.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:25

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 20:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	1.1		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C DL | Lab Sample ID: 140-2962-8 DL

Matrix: Air | Lab File ID: JD03P112DL.D

Analysis Method: TO-15 | Date Collected: 03/25/2015 16:25

Sample wt/vol: 150(mL) | Date Analyzed: 04/04/2015 03:48

Soil Aliquot Vol: | Dilution Factor: 2.01

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2608 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL	
115-07-1	Propene	42.08	82	~~cn~~ J+	1.3	0.21	MI

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: IA-C DL Lab Sample ID: 140-2962-8 DL

Matrix: Air Lab File ID: JD03P112DL.D

Analysis Method: TO-15 Date Collected: 03/25/2015 16:25

Sample wt/vol: 150(mL) Date Analyzed: 04/04/2015 03:48

Soil Aliquot Vol: Dilution Factor: 2.01

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
115-07-1	Propene	42.08	140	~~cn~~ J+	2.3	0.36

HI

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		60-140

FORM I
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-A Lab Sample ID: 140-2962-1

Matrix: Air Lab File ID: 5D03004.d

Analysis Method: D1946 Date Collected: 03/25/2015 17:00

Sample wt/vol: 500(uL) Date Analyzed: 04/03/2015 12:53

Soil Aliquot Vol: Dilution Factor: 2.86

Soil Extract Vol.: GC Column: 60/80 carb 1000 ID: 0.125(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2610 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7440-59-7	Helium	ND		0.29	0.29

FORM I
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-B Lab Sample ID: 140-2962-3

Matrix: Air Lab File ID: 5D03005.d

Analysis Method: D1946 Date Collected: 03/25/2015 16:05

Sample wt/vol: 500(uL) Date Analyzed: 04/03/2015 13:24

Soil Aliquot Vol: Dilution Factor: 1.97

Soil Extract Vol.: GC Column: 60/80 carb 1000 ID: 0.125(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2610 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7440-59-7	Helium	ND		0.20	0.20

FORM I
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: SG-C Lab Sample ID: 140-2962-7

Matrix: Air Lab File ID: 5D03006.d

Analysis Method: D1946 Date Collected: 03/25/2015 16:30

Sample wt/vol: 500(uL) Date Analyzed: 04/03/2015 13:42

Soil Aliquot Vol: Dilution Factor: 2.11

Soil Extract Vol.: GC Column: 60/80 carb 1000 ID: 0.125(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2610 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7440-59-7	Helium	ND		0.21	0.21

Appendix C

Support Documentation

Sample Summary

Client: AECOM, Inc.
Project/Site: Equity Rewe St. (National Grid)

TestAmerica Job ID: 140-2962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-2962-1	SG-A	Air	03/25/15 17:00	03/31/15 11:15
140-2962-2	IA-A	Air	03/25/15 16:00	03/31/15 11:15
140-2962-3	SG-B	Air	03/25/15 16:05	03/31/15 11:15
140-2962-4	IA-B	Air	03/25/15 16:50	03/31/15 11:15
140-2962-5	AIR-DUP-032515	Air	03/25/15 00:00	03/31/15 11:15
140-2962-6	OA-1-032515	Air	03/25/15 17:10	03/31/15 11:15
140-2962-7	SG-C	Air	03/25/15 16:30	03/31/15 11:15
140-2962-8	IA-C	Air	03/25/15 16:25	03/31/15 11:15

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: AECom
Address: 125 Broad St
City/State/Zip NY NY
Phone:
FAX:
Project Name: Equity
Site/location: Brooklyn NY
PO #

Project Manager: Pete Cox
Phone:
Site Contact: Jennifer Pfeiffer
TAL Contact:

Analysis Turnaround Time
Standard (Specify) 2 Week Standard
Rush (Specify)

Sampled By: RP / SW

1 of 2 COCs

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + National Grid List	[redacted]	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SG-A	3-25-15	0845	1700	-30	-11	10054	10267	X					X				X		
IA-A	3-25-15	0846	1600	-30	-5.5	10861	11159	X							X				
SG-B	3-25-15	0911	1605	-30	-5.0	10879	10261	X					X				X		
IA-B	3-25-15	0910	1650	-30	-6.0	10592 ~~10370~~	10370	X							X				
AIR-DUP-032515	3-25-15	[illegible]	—	-30	-6.0	10845	10683	X							X				
OA-1-032515	3-25-15	0920	1710	-30	-5	10654	10026	X								X			

Sampled by: RP + SW

140-2962 Chain of Custody

Temperature (Fahrenheit)

	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)

	Interior	Ambient	
Start			
Stop			

Other - Helium Analysis
Received @ ambient, 2 boxes, 2wk TAT
FedexG, trK# 7732 1901 2664
No custody seal, KW 3/31/15 " " 2561

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
[signature]	3-25-15	[signature] 3/31/15 1115
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

10 cans
10 Flows
10 cc

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Pete Cox	**Sampled By:** RR / SW
Company: AECom	**Phone:**	2 of 2 COCs
Address: 125 Broad St	**Site Contact:** Jennifer Pfeiffer	
City/State/Zip NY NY	**TAL Contact:**	
Phone:		
FAX:		
Project Name: Equity	**Analysis Turnaround Time**	
Site/location: Brooklyn NY	Standard (Specify)	
PO #	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 + National Grid List	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
S6-C	3-25-15	0945	1630	-30	-5	10360	10626	X					X				X		
IA-C	3-25-15	0930	1625	-30	-7	10049	10390	X							X				

Sampled by : RR / SW

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

other- Helium Analysis

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time: 3-25-15	Canisters Received by:	3/31/15 1115
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: G1
Date: 3/31/2015

Analyst	Sample ID	Asset #	Cert	6 L	1 L	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
AFB	140-2962-a-1	10267	I	X		-14.5	1800	7.0
AFB	140-2962-a-2	11159	I	X		-5.1	1801	
AFB	140-2962-a-3	10261	I	X		-5.6	1802	
AFB	140-2962-a-4	10370	I	X		-3.8	1803	
AFB	140-2962-a-5	10683	I	X		-6.2	1804	
AFB	140-2962-a-6	10026	I	X		-2.9	1814	
AFB	140-2962-a-7	10262	I	X		-6.4	1815	
AFB	140-2962-a-8	10390	I	X		-5.3	1816	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 140-2962-1

Login Number: 2962
List Number: 2
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Job Narrative
140-2962-1

Comments
No additional comments.

Receipt
The samples were received on 3/31/2015 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA
Quantitation for the following analytes was previously based on a one-point calibration standard at the reporting limit.

2,3-Dimethylpentane
Ethanol
indane
Indene
1-Methylnaphthalene
2-Methylnaphthalene
1,2,4,5-Tetramethylbenzene
Thiophene
1,2,3-Trimethyl benzene
2-Methylpentane

These compounds were quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analytes is fully established:

• The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
• There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
• The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
• The LCS recovery criteria are set at 20% to 180%.
• A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 14A, TO 15 LL, TO-14A, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Method(s) TO 15 LL, TO-15: The continuing calibration verification (CCV) associated with batch 2577 exhibited % difference of > 30% for the following analyte(s) carbon tetrachloride, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Carbon tetrachloride recovered outside control limits for the CCV and LCS. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) TO-15: There is a significant contribution from an interfering non-target analyte to the quantitation of propene in all samples. Therefore, the propene results are biased high and should be considered estimated. The result is flagged with "cn".

Method(s) TO 15 LL, TO-15: Can Certification Comments:
Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Method(s) TO 15 LL, TO-14A, TO-15: This report includes canister certification data for the batch certified and/or individually certified canisters used to collect samples as well as for any canisters used for dilution of those samples. All of the canisters used for sample collection or sample dilution for this job were certified to be clean to the levels listed on the results page. Please note that results for individually certified canisters that were not used for sample collection or sample dilution may also be included in the report because these canisters were in the same cleaning batch as the canisters used for this project. Since these canisters were not used for this job, the results have no bearing on the sample results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Air - GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 140-2577/5

Matrix: Air | Lab File ID: J200BD01.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
91-57-6	2-Methylnaphthalene	142.20	ND		2.5	2.5
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
67-63-0	2-Propanol	60.10	ND		2.0	0.094
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2577/5

Matrix: Air Lab File ID: J200BD01.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
78-78-4	Isopentane	72.15	ND		0.50	0.031
75-09-2	Methylene Chloride	84.93	0.148	J	0.50	0.13
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 140-2577/5

Matrix: Air | Lab File ID: J200BD01.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2577 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2577/5

Matrix: Air Lab File ID: J200BD01.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND		15	15
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
67-63-0	2-Propanol	60.10	ND		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2577/5

Matrix: Air Lab File ID: J200BD01.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
78-78-4	Isopentane	72.15	ND		1.5	0.091
75-09-2	Methylene Chloride	84.93	0.515	J	1.7	0.45
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2577/5

Matrix: Air Lab File ID: J200BD01.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/01/2015 11:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2577 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 140-2593/5

Matrix: Air | Lab File ID: J200BD02.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2593 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
91-57-6	2-Methylnaphthalene	142.20	ND		2.5	2.5
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
67-63-0	2-Propanol	60.10	ND		2.0	0.094
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2593/5

Matrix: Air Lab File ID: J200BD02.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
78-78-4	Isopentane	72.15	ND		0.50	0.031
75-09-2	Methylene Chloride	84.93	0.134	J	0.50	0.13
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2593/5

Matrix: Air Lab File ID: J200BD02.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2593/5

Matrix: Air Lab File ID: J200BD02.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND		15	15
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
67-63-0	2-Propanol	60.10	ND		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2593/5

Matrix: Air Lab File ID: J200BD02.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
78-78-4	Isopentane	72.15	ND		1.5	0.091
75-09-2	Methylene Chloride	84.93	0.466	J	1.7	0.45
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2593/5

Matrix: Air Lab File ID: J200BD02.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/02/2015 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2593 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		60-140

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2608/4

Matrix: Air Lab File ID: J200BD03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		0.20	0.030
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		0.20	0.061
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		0.20	0.031
79-00-5	1,1,2-Trichloroethane	133.41	ND		0.20	0.054
75-34-3	1,1-Dichloroethane	98.96	ND		0.20	0.026
75-35-4	1,1-Dichloroethene	96.94	ND		0.20	0.034
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.20	0.20
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		1.0	0.098
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.20	0.063
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		0.20	0.044
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		0.20	0.032
95-50-1	1,2-Dichlorobenzene	147.00	ND		0.20	0.070
107-06-2	1,2-Dichloroethane	98.96	ND		0.20	0.047
78-87-5	1,2-Dichloropropane	112.99	ND		0.20	0.052
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.20	0.065
106-99-0	1,3-Butadiene	54.09	ND		0.40	0.064
541-73-1	1,3-Dichlorobenzene	147.00	ND		0.20	0.065
106-46-7	1,4-Dichlorobenzene	147.00	ND		0.20	0.064
123-91-1	1,4-Dioxane	88.11	ND		0.50	0.080
90-12-0	1-Methylnaphthalene	142.20	ND		2.5	2.5
540-84-1	2,2,4-Trimethylpentane	114.23	ND		0.50	0.039
565-59-3	2,3-Dimethylpentane	100.20	ND		0.20	0.20
78-93-3	2-Butanone (MEK)	72.11	ND		1.0	0.20
95-49-8	2-Chlorotoluene	126.59	ND		0.40	0.063
591-78-6	2-Hexanone	100.20	ND		0.50	0.058
91-57-6	2-Methylnaphthalene	142.20	ND		2.5	2.5
107-83-5	2-Methylpentane	86.18	ND		0.20	0.20
67-63-0	2-Propanol	60.10	ND		2.0	0.094
622-96-8	4-Ethyltoluene	120.20	ND		0.40	0.066
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		0.50	0.045
67-64-1	Acetone	58.08	ND		5.0	1.4
71-43-2	Benzene	78.11	ND		0.20	0.056

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2608/4

Matrix: Air Lab File ID: J200BD03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		0.40	0.078
75-27-4	Bromodichloromethane	163.83	ND		0.20	0.044
75-25-2	Bromoform	252.75	ND		0.20	0.048
74-83-9	Bromomethane	94.94	ND		0.20	0.032
75-15-0	Carbon disulfide	76.14	ND		0.50	0.031
56-23-5	Carbon tetrachloride	153.81	ND		0.20	0.038
108-90-7	Chlorobenzene	112.56	ND		0.20	0.049
75-00-3	Chloroethane	64.52	ND		0.20	0.035
67-66-3	Chloroform	119.38	ND		0.20	0.038
74-87-3	Chloromethane	50.49	ND		0.50	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.20	0.060
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.20	0.074
110-82-7	Cyclohexane	84.16	ND		0.50	0.040
124-48-1	Dibromochloromethane	208.29	ND		0.20	0.042
75-71-8	Dichlorodifluoromethane	120.91	ND		0.20	0.068
64-17-5	Ethanol	46.07	ND		2.0	2.0
100-41-4	Ethylbenzene	106.17	ND		0.20	0.068
142-82-5	Heptane	100.21	ND		0.50	0.047
87-68-3	Hexachlorobutadiene	260.76	ND		1.0	0.078
110-54-3	Hexane	86.17	ND		0.50	0.032
496-11-7	Indane	118.18	ND		0.20	0.20
95-13-6	Indene	116.16	ND		0.40	0.40
78-78-4	Isopentane	72.15	ND		0.50	0.031
75-09-2	Methylene Chloride	84.93	0.136	J	0.50	0.13
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.20	0.12
91-20-3	Naphthalene	128.17	ND		0.50	0.090
95-47-6	o-Xylene	106.17	ND		0.20	0.061
115-07-1	Propene	42.08	ND		0.50	0.077
100-42-5	Styrene	104.15	ND		0.20	0.058
127-18-4	Tetrachloroethene	165.83	ND		0.20	0.040
109-99-9	Tetrahydrofuran	72.11	ND		1.0	0.063
110-02-1	Thiophene	84.14	ND		0.20	0.20
108-88-3	Toluene	92.14	ND		0.20	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.20	0.050

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville | Job No.: 140-2962-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 140-2608/4

Matrix: Air | Lab File ID: J200BD03.D

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-5 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 2608 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.20	0.048
79-01-6	Trichloroethene	131.39	ND		0.20	0.036
75-69-4	Trichlorofluoromethane	137.37	ND		0.20	0.024
75-01-4	Vinyl chloride	62.50	ND		0.20	0.071

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2608/4

Matrix: Air Lab File ID: J200BD03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133.41	ND		1.1	0.16
79-34-5	1,1,2,2-Tetrachloroethane	167.85	ND		1.4	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND		1.5	0.24
79-00-5	1,1,2-Trichloroethane	133.41	ND		1.1	0.29
75-34-3	1,1-Dichloroethane	98.96	ND		0.81	0.11
75-35-4	1,1-Dichloroethene	96.94	ND		0.79	0.13
526-73-8	1,2,3-Trimethylbenzene	120.19	ND		0.98	0.98
95-93-2	1,2,4,5-Tetramethylbenzene	134.22	ND		1.1	1.1
120-82-1	1,2,4-Trichlorobenzene	181.45	ND		7.4	0.73
95-63-6	1,2,4-Trimethylbenzene	120.20	ND		0.98	0.31
106-93-4	1,2-Dibromoethane (EDB)	187.87	ND		1.5	0.34
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND		1.4	0.22
95-50-1	1,2-Dichlorobenzene	147.00	ND		1.2	0.42
107-06-2	1,2-Dichloroethane	98.96	ND		0.81	0.19
78-87-5	1,2-Dichloropropane	112.99	ND		0.92	0.24
108-67-8	1,3,5-Trimethylbenzene	120.20	ND		0.98	0.32
106-99-0	1,3-Butadiene	54.09	ND		0.88	0.14
541-73-1	1,3-Dichlorobenzene	147.00	ND		1.2	0.39
106-46-7	1,4-Dichlorobenzene	147.00	ND		1.2	0.38
123-91-1	1,4-Dioxane	88.11	ND		1.8	0.29
90-12-0	1-Methylnaphthalene	142.20	ND		15	15
540-84-1	2,2,4-Trimethylpentane	114.23	ND		2.3	0.18
565-59-3	2,3-Dimethylpentane	100.20	ND		0.82	0.82
78-93-3	2-Butanone (MEK)	72.11	ND		2.9	0.59
95-49-8	2-Chlorotoluene	126.59	ND		2.1	0.33
591-78-6	2-Hexanone	100.20	ND		2.0	0.24
91-57-6	2-Methylnaphthalene	142.20	ND		15	15
107-83-5	2-Methylpentane	86.18	ND		0.70	0.70
67-63-0	2-Propanol	60.10	ND		4.9	0.23
622-96-8	4-Ethyltoluene	120.20	ND		2.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	100.16	ND		2.0	0.18
67-64-1	Acetone	58.08	ND		12	3.3
71-43-2	Benzene	78.11	ND		0.64	0.18

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2608/4

Matrix: Air Lab File ID: J200BD03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
100-44-7	Benzyl chloride	126.58	ND		2.1	0.40
75-27-4	Bromodichloromethane	163.83	ND		1.3	0.29
75-25-2	Bromoform	252.75	ND		2.1	0.50
74-83-9	Bromomethane	94.94	ND		0.78	0.12
75-15-0	Carbon disulfide	76.14	ND		1.6	0.097
56-23-5	Carbon tetrachloride	153.81	ND		1.3	0.24
108-90-7	Chlorobenzene	112.56	ND		0.92	0.23
75-00-3	Chloroethane	64.52	ND		0.53	0.092
67-66-3	Chloroform	119.38	ND		0.98	0.19
74-87-3	Chloromethane	50.49	ND		1.0	0.33
156-59-2	cis-1,2-Dichloroethene	96.94	ND		0.79	0.24
10061-01-5	cis-1,3-Dichloropropene	110.97	ND		0.91	0.34
110-82-7	Cyclohexane	84.16	ND		1.7	0.14
124-48-1	Dibromochloromethane	208.29	ND		1.7	0.36
75-71-8	Dichlorodifluoromethane	120.91	ND		0.99	0.34
64-17-5	Ethanol	46.07	ND		3.8	3.8
100-41-4	Ethylbenzene	106.17	ND		0.87	0.30
142-82-5	Heptane	100.21	ND		2.0	0.19
87-68-3	Hexachlorobutadiene	260.76	ND		11	0.83
110-54-3	Hexane	86.17	ND		1.8	0.11
496-11-7	Indane	118.18	ND		0.97	0.97
95-13-6	Indene	116.16	ND		1.9	1.9
78-78-4	Isopentane	72.15	ND		1.5	0.091
75-09-2	Methylene Chloride	84.93	0.472	J	1.7	0.45
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3.6	0.61
179601-23-1	m-Xylene & p-Xylene	106.17	ND		0.87	0.52
91-20-3	Naphthalene	128.17	ND		2.6	0.47
95-47-6	o-Xylene	106.17	ND		0.87	0.26
115-07-1	Propene	42.08	ND		0.86	0.13
100-42-5	Styrene	104.15	ND		0.85	0.25
127-18-4	Tetrachloroethene	165.83	ND		1.4	0.27
109-99-9	Tetrahydrofuran	72.11	ND		2.9	0.19
110-02-1	Thiophene	84.14	ND		0.69	0.69
108-88-3	Toluene	92.14	ND		0.75	0.45
156-60-5	trans-1,2-Dichloroethene	96.94	ND		0.79	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 140-2608/4

Matrix: Air Lab File ID: J200BD03.D

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 04/03/2015 14:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-5 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 2608 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	110.97	ND		0.91	0.22
79-01-6	Trichloroethene	131.39	ND		1.1	0.19
75-69-4	Trichlorofluoromethane	137.37	ND		1.1	0.13
75-01-4	Vinyl chloride	62.50	ND		0.51	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		60-140

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1 Analy Batch No.: 2321

SDG No.:

Instrument ID: MJ GC Column: RTX-5 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/02/2015 12:48 Calibration End Date: 02/02/2015 20:05 Calibration ID: 275

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Tetrachloroethene	0.3617 0.2985	0.3387 0.2776	0.4748 0.2456	0.3549 0.2431	0.2646	Ave		0.3177				23.0		30.0			
2,3-Dimethylheptane	+++++ 0.8589	1.1183 0.8783	1.4020 0.7603	1.0349 0.6705	0.8143	Ave		0.9422				25.0		40.0			
Chlorobenzene	0.7249 0.5322	0.5833 0.5382	0.8412 0.4786	0.6334 0.4729	0.4319	Ave		0.5818				23.0		30.0			
Ethylbenzene	+++++ 0.8541	0.8314 0.7894	1.4041 0.6872	0.9664 0.6782	0.6158	Ave		0.8533				29.0		30.0			
2-Ethylthiophene	+++++ 0.6494	0.6367 0.6289	1.0484 0.5474	0.7312 0.5506	0.4724	Ave		0.6581				27.0		40.0			
m-Xylene & p-Xylene	0.9079 0.6667	0.6428 0.6026	1.1125 0.5128	0.7617 0.4959	0.4839	Ave		0.6874				31.0	*	30.0			
Nonane	0.6565 0.5452	0.5366 0.5731	0.7977 0.5151	0.6025 0.4878	0.4524	Ave		0.5741				18.0		30.0			
Styrene	0.5391 0.4949	0.4315 0.4675	0.7174 0.4199	0.5319 0.4219	0.3356	Ave		0.4844				22.0		30.0			
Bromoform	0.4289 0.4316	0.3585 0.4440	0.5964 0.3965	0.4571 0.4129	0.3187	Ave		0.4272				18.0		30.0			
o-Xylene	0.9383 0.7222	0.7357 0.6457	1.2026 0.5623	0.8525 0.5608	0.5278	Ave		0.7498				29.0		30.0			
1,1,2,2-Tetrachloroethane	0.6766 0.5981	0.5147 0.5414	0.8780 0.4847	0.6688 0.4935	0.4324	Ave		0.5876				23.0		30.0			
1,2,3-Trichloropropane	+++++ 0.1388	0.1127 0.1289	0.2053 0.1174	0.1542 0.1249	0.1011	Ave		0.1354				24.0		30.0			
Isopropylbenzene	+++++ 0.9985	0.9683 0.8961	1.5890 0.7771	1.1198 0.7607	0.7235	Ave		0.9791				29.0		30.0			
Propylbenzene	0.2923 0.2720	0.2183 0.2449	0.4121 0.2189	0.2825 0.2332	0.1829	Ave		0.2619				25.0		30.0			
2-Chlorotoluene	0.3072 0.2530	0.2467 0.2439	0.3855 0.2168	0.2913 0.2242	0.1895	Ave		0.2620				22.0		30.0			
4-Ethyltoluene	1.1760 0.9847	0.8038 0.8744	1.4041 0.7753	1.0397 0.7831	0.6697	Ave		0.9456				25.0		30.0			
1,3,5-Trimethylbenzene	0.5198 0.4638	0.3945 0.4044	0.6996 0.3614	0.5033 0.3757	0.3264	Ave		0.4499				25.0		30.0			
Alpha Methyl Styrene	+++++ 0.3845	0.2761 0.3583	0.5186 0.3428	0.3876 0.3673	0.2447	Ave		0.3600				23.0		30.0			
Decane	0.7727 0.6485	0.5646 0.6240	0.9785 0.5592	0.7469 0.5315	0.4581	Ave		0.6538				24.0		30.0			
tert-Butylbenzene	1.1439 0.9015	0.7627 0.7792	1.3543 0.6820	0.9781 0.6993	0.6460	Ave		0.8830				27.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2577/2 Calibration Date: 04/01/2015 09:24

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD01.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4836	0.4861		2.01	2.00	0.5	30.0
Propene	Ave	1.897	1.889		1.99	2.00	-0.4	30.0
Dichlorodifluoromethane	Ave	4.503	4.804		2.13	2.00	6.7	30.0
Chloromethane	Ave	0.6404	0.6283		1.96	2.00	-1.9	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.950	3.045		2.07	2.00	3.2	30.0
Acetaldehyde	Ave	0.5522	0.3836		6.95	10.0	-30.5	50.0
Vinyl chloride	Ave	1.728	1.839		2.13	2.00	6.4	30.0
1,3-Butadiene	Ave	1.372	1.458		2.13	2.00	6.3	30.0
Butane	Ave	3.020	3.200		2.12	2.00	6.0	30.0
Bromomethane	Ave	1.466	1.491		2.03	2.00	1.6	30.0
Chloroethane	Ave	0.7569	0.7589		2.01	2.00	0.3	30.0
Ethanol	Ave	0.5564	0.5650		10.2	10.0	1.6	50.0
Vinyl bromide	Ave	1.285	1.250		1.95	2.00	-2.7	30.0
Isopentane	Ave	2.029	2.095		2.07	2.00	3.2	30.0
Trichlorofluoromethane	Ave	3.943	3.920		1.99	2.00	-0.6	30.0
Acrolein	Ave	0.4559	0.3333		1.46	2.00	-26.9	30.0
Acetonitrile	Ave	0.4803	0.4788		1.99	2.00	-0.3	30.0
Acetone	Ave	0.5147	0.4270		4.98	6.00	-17.0	30.0
2-Propanol	Ave	2.074	1.925		5.57	6.00	-7.2	30.0
Pentane	Ave	0.2413	0.2379		1.97	2.00	-1.4	30.0
Ethyl ether	Ave	1.407	1.358		1.93	2.00	-3.5	30.0
1,1-Dichloroethene	Ave	1.271	1.215		1.91	2.00	-4.4	30.0
tert-Butyl alcohol	Ave	2.362	2.260		1.91	2.00	-4.3	30.0
Acrylonitrile	Ave	0.7116	0.6907		1.94	2.00	-2.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.380		1.79	2.00	-10.3	30.0
Methylene Chloride	Ave	1.282	1.096		1.71	2.00	-14.5	30.0
3-Chloropropene	Ave	1.392	1.208		1.74	2.00	-13.2	30.0
Carbon disulfide	Ave	4.481	4.565		2.04	2.00	1.9	30.0
trans-1,2-Dichloroethene	Ave	1.449	1.320		1.82	2.00	-8.9	30.0
2-Methylpentane	Ave	3.796	3.801		2.00	2.00	0.1	50.0
Methyl-t-Butyl Ether (MTBE)	Ave	2.439	2.385		1.96	2.00	-2.2	30.0
1,1-Dichloroethane	Ave	2.437	2.143		1.76	2.00	-12.1	30.0
Vinyl acetate	Ave	2.529	2.304		1.82	2.00	-8.9	30.0
2-Butanone (MEK)	Ave	0.4763	0.4123		1.73	2.00	-13.4	30.0
Hexane	Ave	1.334	1.147		1.72	2.00	-14.0	30.0
Isopropyl ether	Ave	4.081	4.258		2.09	2.00	4.3	
cis-1,2-Dichloroethene	Ave	1.248	1.086		1.74	2.00	-12.9	30.0
Ethyl acetate	Ave	2.326	2.275		1.96	2.00	-2.2	30.0
Chloroform	Ave	2.525	2.205		1.75	2.00	-12.7	30.0
Tert-butyl ethyl ether	Ave	3.060	3.231		2.11	2.00	5.6	

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2577/2 Calibration Date: 04/01/2015 09:24

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD01.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.276	1.221		1.92	2.00	-4.3	30.0
1,1,1-Trichloroethane	Ave	2.647	2.256		1.71	2.00	-14.8	30.0
1,2-Dichloroethane	Ave	0.3332	0.2819		1.69	2.00	-15.4	30.0
1-Butanol	Ave	0.1210	0.1291		2.13	2.00	6.6	30.0
Cyclohexane	Ave	0.1527	0.1367		1.79	2.00	-10.5	30.0
Benzene	Ave	0.7389	0.5648		1.53	2.00	-23.6	30.0
Carbon tetrachloride	Ave	0.5452	0.3261		1.20	2.00	-40.2*	30.0
2,3-Dimethylpentane	Ave	0.1882	0.1573		1.67	2.00	-16.4	50.0
Thiophene	Ave	0.4185	0.3541		1.69	2.00	-15.4	50.0
Tert-amyl methyl ether	Ave	0.6267	0.7104		2.27	2.00	13.3	
2,2,4-Trimethylpentane	Ave	1.469	1.343		1.83	2.00	-8.6	30.0
Heptane	Ave	0.2709	0.2437		1.80	2.00	-10.0	30.0
1,2-Dichloropropane	Ave	0.2638	0.2236		1.70	2.00	-15.3	30.0
Trichloroethene	Ave	0.3218	0.2858		1.78	2.00	-11.2	30.0
Dibromomethane	Ave	0.3095	0.2703		1.75	2.00	-12.7	30.0
Bromodichloromethane	Ave	0.5294	0.4726		1.79	2.00	-10.7	30.0
1,4-Dioxane	Ave	0.1041	0.0968		1.86	2.00	-7.0	30.0
Methyl methacrylate	Ave	0.2956	0.3105		2.10	2.00	5.0	30.0
Methylcyclohexane	Ave	0.6002	0.4381		1.46	2.00	-27.0	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6078	0.6384		2.10	2.00	5.0	30.0
cis-1,3-Dichloropropene	Ave	0.3416	0.2888		1.69	2.00	-15.5	30.0
trans-1,3-Dichloropropene	Ave	0.3301	0.3012		1.83	2.00	-8.8	30.0
Toluene	Ave	0.7298	0.6928		1.90	2.00	-5.1	30.0
1,1,2-Trichloroethane	Ave	0.2451	0.2293		1.87	2.00	-6.4	30.0
2-Methylthiophene	Ave	0.6347	0.5711		1.80	2.00	-10.0	50.0
3-Methylthiophene	Ave	0.6208	0.6084		1.96	2.00	-2.0	50.0
2-Hexanone	Ave	0.2914	0.3209		2.20	2.00	10.1	30.0
Octane	Ave	0.2716	0.2544		1.87	2.00	-6.3	30.0
Dibromochloromethane	Ave	0.4924	0.4352		1.77	2.00	-11.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.4084	0.3816		1.87	2.00	-6.6	30.0
Tetrachloroethene	Ave	0.3177	0.3001		1.89	2.00	-5.6	30.0
2,3-Dimethylheptane	Ave	0.9422	0.9800		2.08	2.00	4.0	50.0
Chlorobenzene	Ave	0.5818	0.5244		1.80	2.00	-9.9	30.0
Ethylbenzene	Ave	0.8533	0.8505		1.99	2.00	-0.3	30.0
2-Ethylthiophene	Ave	0.6581	0.6498		1.98	2.00	-1.3	50.0
m-Xylene & p-Xylene	Ave	0.6874	0.6806		3.96	4.00	-1.0	30.0
Nonane	Ave	0.5741	0.5717		1.99	2.00	-0.4	30.0
Bromoform	Ave	0.4272	0.3401		1.59	2.00	-20.4	30.0
Styrene	Ave	0.4844	0.4897		2.02	2.00	1.1	30.0
o-Xylene	Ave	0.7498	0.7431		1.98	2.00	-0.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5876	0.6238		2.12	2.00	6.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2577/2 Calibration Date: 04/01/2015 09:24

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD01.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1354	0.1398		2.07	2.00	3.2	30.0
Isopropylbenzene	Ave	0.9791	1.026		2.10	2.00	4.8	30.0
Propylbenzene	Ave	0.2619	0.2712		2.07	2.00	3.5	30.0
2-Chlorotoluene	Ave	0.2620	0.2491		1.90	2.00	-4.9	30.0
4-Ethyltoluene	Ave	0.9456	0.9755		2.06	2.00	3.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4499	0.4715		2.10	2.00	4.8	30.0
Alpha Methyl Styrene	Ave	0.3600	0.3813		2.12	2.00	5.9	30.0
Decane	Ave	0.6538	0.6795		2.08	2.00	3.9	30.0
tert-Butylbenzene	Ave	0.8830	0.9059		2.05	2.00	2.6	30.0
1,2,4-Trimethylbenzene	Ave	0.8081	0.8363		2.07	2.00	3.5	30.0
sec-Butylbenzene	Ave	1.185	1.237		2.09	2.00	4.4	30.0
1,3-Dichlorobenzene	Ave	0.4646	0.4404		1.90	2.00	-5.2	30.0
Benzyl chloride	Ave	0.5422	0.5696		2.10	2.00	5.0	30.0
1,4-Dichlorobenzene	Ave	0.4299	0.4094		1.91	2.00	-4.8	30.0
4-Isopropyltoluene	Ave	0.9422	0.9711		2.06	2.00	3.1	30.0
1,2,3-Trimethylbenzene	Ave	0.6481	0.7212		2.23	2.00	11.3	50.0
Butylcyclohexane	Ave	0.6972	0.7262		2.08	2.00	4.2	50.0
Indane	Ave	0.7235	0.7217		2.00	2.00	-0.2	50.0
1,2-Dichlorobenzene	Ave	0.4593	0.4481		1.95	2.00	-2.4	30.0
Butylbenzene	Ave	0.8544	0.9121		2.14	2.00	6.8	30.0
Indene	Ave	0.4821	0.6558	↑	2.72	2.00	36.0	50.0
Undecane	Ave	0.6845	0.8129		2.38	2.00	18.8	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.6928	0.9023		2.61	2.00	30.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1910	0.1384		1.45	2.00	-27.6	
1,2,4,5-Tetramethylbenzene	Ave	0.8550	1.001		2.34	2.00	17.1	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5350	0.6260		2.34	2.00	17.0	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6913	0.8099		2.34	2.00	17.1	50.0
Dodecane	Ave	0.6090	0.7933		2.61	2.00	30.3*	30.0
1,2,4-Trichlorobenzene	Ave	0.1851	0.1839		1.99	2.00	-0.6	30.0
Naphthalene	Ave	0.4137	0.4639		2.24	2.00	12.1	30.0
Benzo(b)thiophene	Ave	0.2045	0.2206		2.16	2.00	7.9	50.0
Hexachlorobutadiene	Ave	0.3552	0.3659		2.06	2.00	3.0	30.0
1,2,3-Trichlorobenzene	Ave	0.1634	0.1682		2.06	2.00	3.0	30.0
2-Methylnaphthalene	Ave	0.0432	0.0271		3.93	6.25	-37.2	50.0
1-Methylnaphthalene	Ave	0.0458	0.0361		4.93	6.25	-21.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6548	0.6736		4.12	4.00	2.9	30.0

ALL ND

Used for propane only.
GAM 04/15/15.

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2608/2 Calibration Date: 04/03/2015 12:17

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD03A.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.4836	0.4963		2.05	2.00	2.6	30.0
Propene	Ave	1.897	1.883		1.99	2.00	-0.7	30.0
Dichlorodifluoromethane	Ave	4.503	4.502		2.00	2.00	-0.0	30.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	2.950	2.981		2.02	2.00	1.1	30.0
Chloromethane	Ave	0.6404	0.6261		1.96	2.00	-2.2	30.0
Acetaldehyde	Ave	0.5522	0.5879		10.7	10.0	6.5	50.0
Vinyl chloride	Ave	1.728	1.816		2.10	2.00	5.1	30.0
1,3-Butadiene	Ave	1.372	1.481		2.16	2.00	7.9	30.0
Butane	Ave	3.020	3.106		2.06	2.00	2.8	30.0
Bromomethane	Ave	1.466	1.444		1.97	2.00	-1.5	30.0
Chloroethane	Ave	0.7569	0.7618		2.01	2.00	0.7	30.0
Ethanol	Ave	0.5564	0.5605		10.1	10.0	0.7	50.0
Vinyl bromide	Ave	1.285	1.341		2.09	2.00	4.3	30.0
Isopentane	Ave	2.029	2.012		1.98	2.00	-0.8	30.0
Trichlorofluoromethane	Ave	3.943	4.009		2.03	2.00	1.7	30.0
Acrolein	Ave	0.4559	0.4549		2.00	2.00	-0.2	30.0
Acetonitrile	Ave	0.4803	0.5843		2.43	2.00	21.7	30.0
Acetone	Ave	0.5147	0.4860		5.67	6.00	-5.6	30.0
2-Propanol	Ave	2.074	2.180		6.31	6.00	5.1	30.0
Pentane	Ave	0.2413	0.2458		2.04	2.00	1.9	30.0
Ethyl ether	Ave	1.407	1.452		2.07	2.00	3.2	30.0
1,1-Dichloroethene	Ave	1.271	1.489		2.34	2.00	17.2	30.0
tert-Butyl alcohol	Ave	2.362	2.486		2.11	2.00	5.3	30.0
Acrylonitrile	Ave	0.7116	0.8864		2.49	2.00	24.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	3.186		2.40	2.00	20.1	30.0
Methylene Chloride	Ave	1.282	1.383		2.16	2.00	7.8	30.0
3-Chloropropene	Ave	1.392	1.628		2.34	2.00	17.0	30.0
Carbon disulfide	Ave	4.481	4.578		2.04	2.00	2.2	30.0
trans-1,2-Dichloroethene	Ave	1.449	1.445		1.99	2.00	-0.3	30.0
2-Methylpentane	Ave	3.796	3.961		2.09	2.00	4.3	50.0
Methyl-t-Butyl Ether (MTBE)	Ave	2.439	2.559		2.10	2.00	4.9	30.0
1,1-Dichloroethane	Ave	2.437	2.752		2.26	2.00	12.9	30.0
Vinyl acetate	Ave	2.529	2.938		2.32	2.00	16.2	30.0
2-Butanone (MEK)	Ave	0.4763	0.4490		1.89	2.00	-5.7	30.0
Hexane	Ave	1.334	1.297		1.95	2.00	-2.7	30.0
Isopropyl ether	Ave	4.081	4.138		2.03	2.00	1.4	
cis-1,2-Dichloroethene	Ave	1.248	1.403		2.25	2.00	12.5	30.0
Ethyl acetate	Ave	2.326	2.370		2.04	2.00	1.9	30.0
Chloroform	Ave	2.525	2.832		2.24	2.00	12.2	30.0
Tert-butyl ethyl ether	Ave	3.060	3.134		2.05	2.00	2.4	

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2608/2 Calibration Date: 04/03/2015 12:17

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD03A.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	1.276	1.331		2.09	2.00	4.3	30.0
1,1,1-Trichloroethane	Ave	2.647	2.932		2.22	2.00	10.7	30.0
1,2-Dichloroethane	Ave	0.3332	0.3895		2.34	2.00	16.9	30.0
1-Butanol	Ave	0.1210	0.1421		2.35	2.00	17.4	30.0
Benzene	Ave	0.7389	0.8249		2.23	2.00	11.6	30.0
Cyclohexane	Ave	0.1527	0.1571		2.06	2.00	2.9	30.0
Carbon tetrachloride	Ave	0.5452	0.6914		2.54	2.00	26.8	30.0
2,3-Dimethylpentane	Ave	0.1882	0.1957		2.08	2.00	4.0	50.0
Thiophene	Ave	0.4185	0.4495		2.15	2.00	7.4	50.0
Tert-amyl methyl ether	Ave	0.6267	0.6492		2.07	2.00	3.6	
2,2,4-Trimethylpentane	Ave	1.469	1.611		2.19	2.00	9.7	30.0
Heptane	Ave	0.2709	0.2816		2.08	2.00	4.0	30.0
1,2-Dichloropropane	Ave	0.2638	0.2836		2.15	2.00	7.5	30.0
Trichloroethene	Ave	0.3218	0.3323		2.07	2.00	3.2	30.0
Dibromomethane	Ave	0.3095	0.3238		2.09	2.00	4.6	30.0
Bromodichloromethane	Ave	0.5294	0.5893		2.23	2.00	11.3	30.0
1,4-Dioxane	Ave	0.1041	0.1050		2.02	2.00	0.9	30.0
Methyl methacrylate	Ave	0.2956	0.3046		2.06	2.00	3.1	30.0
Methylcyclohexane	Ave	0.6002	0.6260		2.09	2.00	4.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6078	0.6270		2.06	2.00	3.2	30.0
cis-1,3-Dichloropropene	Ave	0.3416	0.3846		2.25	2.00	12.6	30.0
trans-1,3-Dichloropropene	Ave	0.3301	0.3339		2.02	2.00	1.1	30.0
Toluene	Ave	0.7298	0.7844		2.15	2.00	7.5	30.0
1,1,2-Trichloroethane	Ave	0.2451	0.2505		2.05	2.00	2.2	30.0
2-Methylthiophene	Ave	0.6347	0.6333		2.00	2.00	-0.2	50.0
3-Methylthiophene	Ave	0.6208	0.6184		1.99	2.00	-0.4	50.0
2-Hexanone	Ave	0.2914	0.2976		2.04	2.00	2.1	30.0
Octane	Ave	0.2716	0.2968		2.19	2.00	9.3	30.0
Dibromochloromethane	Ave	0.4924	0.5643		2.29	2.00	14.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.4084	0.4151		2.03	2.00	1.6	30.0
Tetrachloroethene	Ave	0.3177	0.3449		2.17	2.00	8.5	30.0
2,3-Dimethylheptane	Ave	0.9422	1.090		2.31	2.00	15.7	50.0
Chlorobenzene	Ave	0.5818	0.5906		2.03	2.00	1.5	30.0
Ethylbenzene	Ave	0.8533	0.9161		2.15	2.00	7.4	30.0
2-Ethylthiophene	Ave	0.6581	0.6615		2.01	2.00	0.5	50.0
m-Xylene & p-Xylene	Ave	0.6874	0.7141		4.16	4.00	3.9	30.0
Nonane	Ave	0.5741	0.6278		2.19	2.00	9.4	30.0
Bromoform	Ave	0.4272	0.4444		2.08	2.00	4.0	30.0
Styrene	Ave	0.4844	0.5116		2.11	2.00	5.6	30.0
o-Xylene	Ave	0.7498	0.7515		2.01	2.00	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5876	0.6016		2.05	2.00	2.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Lab Sample ID: CCVIS 140-2608/2 Calibration Date: 04/03/2015 12:17

Instrument ID: MJ Calib Start Date: 02/02/2015 12:48

GC Column: RTX-5 ID: 0.32(mm) Calib End Date: 02/02/2015 20:05

Lab File ID: JCCVD03A.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.1354	0.1417		2.09	2.00	4.6	30.0
Isopropylbenzene	Ave	0.9791	1.039		2.12	2.00	6.1	30.0
Propylbenzene	Ave	0.2619	0.2754		2.10	2.00	5.1	30.0
2-Chlorotoluene	Ave	0.2620	0.2557		1.95	2.00	-2.4	30.0
4-Ethyltoluene	Ave	0.9456	0.9150		1.94	2.00	-3.2	30.0
1,3,5-Trimethylbenzene	Ave	0.4499	0.4693		2.09	2.00	4.3	30.0
Alpha Methyl Styrene	Ave	0.3600	0.3737		2.08	2.00	3.8	30.0
Decane	Ave	0.6538	0.6758		2.07	2.00	3.4	30.0
tert-Butylbenzene	Ave	0.8830	0.8923		2.02	2.00	1.1	30.0
1,2,4-Trimethylbenzene	Ave	0.8081	0.8270		2.05	2.00	2.3	30.0
sec-Butylbenzene	Ave	1.185	1.217		2.05	2.00	2.7	30.0
1,3-Dichlorobenzene	Ave	0.4646	0.4299		1.85	2.00	-7.5	30.0
Benzyl chloride	Ave	0.5422	0.5297		1.95	2.00	-2.3	30.0
1,4-Dichlorobenzene	Ave	0.4299	0.3894		1.81	2.00	-9.4	30.0
4-Isopropyltoluene	Ave	0.9422	0.9278		1.97	2.00	-1.5	30.0
1,2,3-Trimethylbenzene	Ave	0.6481	0.6296		1.94	2.00	-2.8	50.0
Butylcyclohexane	Ave	0.6972	0.7177		2.06	2.00	2.9	50.0
1,2-Dichlorobenzene	Ave	0.4593	0.4376		1.91	2.00	-4.7	30.0
Indane	Ave	0.7235	0.7152		1.98	2.00	-1.1	50.0
Butylbenzene	Ave	0.8544	0.8430		1.97	2.00	-1.3	30.0
Indene	Ave	0.4821	0.4727		1.96	2.00	-2.0	50.0
Undecane	Ave	0.6845	0.6749		1.97	2.00	-1.4	30.0
1,2-Dimethyl-4-Ethylbenzene	Ave	0.6928	0.6203		1.79	2.00	-10.5	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1910	0.1572		1.65	2.00	-17.7	
1,2,4,5-Tetramethylbenzene	Ave	0.8550	0.7398		1.73	2.00	-13.5	50.0
1,2,3,5-Tetramethylbenzene	Ave	0.5350	0.4618		1.73	2.00	-13.7	50.0
1,2,3,4-Tetramethylbenzene	Ave	0.6913	0.6024		1.74	2.00	-12.9	50.0
Dodecane	Ave	0.6090	0.6305		2.07	2.00	3.5	30.0
1,2,4-Trichlorobenzene	Ave	0.1851	0.1545		1.67	2.00	-16.6	30.0
Naphthalene	Ave	0.4137	0.3822		1.85	2.00	-7.6	30.0
Benzo(b)thiophene	Ave	0.2045	0.1613		1.58	2.00	-21.2	50.0
Hexachlorobutadiene	Ave	0.3552	0.2973		1.68	2.00	-16.3	30.0
1,2,3-Trichlorobenzene	Ave	0.1634	0.1359		1.66	2.00	-16.8	30.0
2-Methylnaphthalene	Ave	0.0432	0.0248		3.59	6.25	-42.6	50.0
1-Methylnaphthalene	Ave	0.0458	0.0303		4.13	6.25	-34.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6548	0.6791		4.15	4.00	3.7	30.0

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVD01-LCS.d

Lab ID: LCS 140-2577/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	1.71	85	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.12	106	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	1.79	90	70-130	
1,1,2-Trichloroethane	2.00	1.87	94	70-130	
1,1-Dichloroethane	2.00	1.76	88	70-130	
1,1-Dichloroethene	2.00	1.91	96	70-130	
1,2,3-Trimethylbenzene	2.00	2.23	111	20-180	
1,2,4,5-Tetramethylbenzene	2.00	2.34	117	20-180	
1,2,4-Trichlorobenzene	2.00	1.99	99	60-140	
1,2,4-Trimethylbenzene	2.00	2.07	103	70-130	
1,2-Dibromoethane (EDB)	2.00	1.87	93	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.07	103	60-140	
1,2-Dichlorobenzene	2.00	1.95	98	70-130	
1,2-Dichloroethane	2.00	1.69	85	70-130	
1,2-Dichloropropane	2.00	1.70	85	70-130	
1,3,5-Trimethylbenzene	2.00	2.10	105	70-130	
1,3-Butadiene	2.00	2.13	106	60-140	
1,3-Dichlorobenzene	2.00	1.90	95	70-130	
1,4-Dichlorobenzene	2.00	1.91	95	70-130	
1,4-Dioxane	2.00	1.86	93	60-140	
1-Methylnaphthalene	6.25	4.93	79	20-180	
2,2,4-Trimethylpentane	2.00	1.83	91	70-130	
2,3-Dimethylpentane	2.00	1.67	84	20-180	
2-Butanone (MEK)	2.00	1.73	87	60-140	
2-Chlorotoluene	2.00	1.90	95	70-130	
2-Hexanone	2.00	2.20	110	60-140	
2-Methylnaphthalene	6.25	3.93	63	20-180	
2-Methylpentane	2.00	2.00	100	20-180	
2-Propanol	6.00	5.57	93	60-140	
4-Ethyltoluene	2.00	2.06	103	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.10	105	60-140	
Acetone	6.00	4.98	83	60-140	
Benzene	2.00	1.53	76	70-130	
Benzyl chloride	2.00	2.10	105	70-130	
Bromodichloromethane	2.00	1.79	89	70-130	
Bromoform	2.00	1.59	80	60-140	
Bromomethane	2.00	2.03	102	70-130	
Carbon disulfide	2.00	2.04	102	70-130	
Carbon tetrachloride	2.00	1.20	60	70-130	*
Chlorobenzene	2.00	1.80	90	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVD01-LCS.d

Lab ID: LCS 140-2577/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Chloroethane	2.00	2.01	100	70-130	
Chloroform	2.00	1.75	87	70-130	
Chloromethane	2.00	1.96	98	60-140	
cis-1,2-Dichloroethene	2.00	1.74	87	70-130	
cis-1,3-Dichloropropene	2.00	1.69	85	70-130	
Cyclohexane	2.00	1.79	90	70-130	
Dibromochloromethane	2.00	1.77	88	70-130	
Dichlorodifluoromethane	2.00	2.13	107	60-140	
Ethanol	10.0	10.2	102	20-180	
Ethylbenzene	2.00	1.99	100	70-130	
Heptane	2.00	1.80	90	70-130	
Hexachlorobutadiene	2.00	2.06	103	60-140	
Hexane	2.00	1.72	86	70-130	
Indane	2.00	2.00	100	20-180	
Indene	2.00	2.72	136	20-180	
Isopentane	2.00	2.07	103	70-130	
Methylene Chloride	2.00	1.71	85	70-130	
Methyl-t-Butyl Ether (MTBE)	2.00	1.96	98	60-140	
m-Xylene & p-Xylene	4.00	3.96	99	70-130	
Naphthalene	2.00	2.24	112	40-140	
o-Xylene	2.00	1.98	99	70-130	
Propene	2.00	1.99	100	60-140	
Styrene	2.00	2.02	101	70-130	
Tetrachloroethene	2.00	1.89	94	70-130	
Tetrahydrofuran	2.00	1.92	96	60-140	
Thiophene	2.00	1.69	85	20-180	
Toluene	2.00	1.90	95	70-130	
trans-1,2-Dichloroethene	2.00	1.82	91	70-130	
trans-1,3-Dichloropropene	2.00	1.83	91	70-130	
Trichloroethene	2.00	1.78	89	70-130	
Trichlorofluoromethane	2.00	1.99	99	60-140	
Vinyl chloride	2.00	2.13	106	70-130	

ALL ND

Column to be used to flag recovery and RPD values

FORM III TO-15

Used for propane only

GAM 04/15/15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVD03A-LCS.d

Lab ID: LCS 140-2608/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2.00	2.22	111	70-130	
1,1,2,2-Tetrachloroethane	2.00	2.05	102	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.40	120	70-130	
1,1,2-Trichloroethane	2.00	2.05	102	70-130	
1,1-Dichloroethane	2.00	2.26	113	70-130	
1,1-Dichloroethene	2.00	2.34	117	70-130	
1,2,3-Trimethylbenzene	2.00	1.94	97	20-180	
1,2,4,5-Tetramethylbenzene	2.00	1.73	87	20-180	
1,2,4-Trichlorobenzene	2.00	1.67	83	60-140	
1,2,4-Trimethylbenzene	2.00	2.05	102	70-130	
1,2-Dibromoethane (EDB)	2.00	2.03	102	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.00	2.02	101	60-140	
1,2-Dichlorobenzene	2.00	1.91	95	70-130	
1,2-Dichloroethane	2.00	2.34	117	70-130	
1,2-Dichloropropane	2.00	2.15	108	70-130	
1,3,5-Trimethylbenzene	2.00	2.09	104	70-130	
1,3-Butadiene	2.00	2.16	108	60-140	
1,3-Dichlorobenzene	2.00	1.85	93	70-130	
1,4-Dichlorobenzene	2.00	1.81	91	70-130	
1,4-Dioxane	2.00	2.02	101	60-140	
1-Methylnaphthalene	6.25	4.13	66	20-180	
2,2,4-Trimethylpentane	2.00	2.19	110	70-130	
2,3-Dimethylpentane	2.00	2.08	104	20-180	
2-Butanone (MEK)	2.00	1.89	94	60-140	
2-Chlorotoluene	2.00	1.95	98	70-130	
2-Hexanone	2.00	2.04	102	60-140	
2-Methylnaphthalene	6.25	3.59	57	20-180	
2-Methylpentane	2.00	2.09	104	20-180	
2-Propanol	6.00	6.31	105	60-140	
4-Ethyltoluene	2.00	1.94	97	70-130	
4-Methyl-2-pentanone (MIBK)	2.00	2.06	103	60-140	
Acetone	6.00	5.67	94	60-140	
Benzene	2.00	2.23	112	70-130	
Benzyl chloride	2.00	1.95	98	70-130	
Bromodichloromethane	2.00	2.23	111	70-130	
Bromoform	2.00	2.08	104	60-140	
Bromomethane	2.00	1.97	98	70-130	
Carbon disulfide	2.00	2.04	102	70-130	
Carbon tetrachloride	2.00	2.54	127	70-130	
Chlorobenzene	2.00	2.03	102	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Knoxville Job No.: 140-2962-1

SDG No.:

Matrix: Air Level: Low Lab File ID: JCCVD03A-LCS.d

Lab ID: LCS 140-2608/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Chloroethane	2.00	2.01	101	70-130	
Chloroform	2.00	2.24	112	70-130	
Chloromethane	2.00	1.96	98	60-140	
cis-1,2-Dichloroethene	2.00	2.25	112	70-130	
cis-1,3-Dichloropropene	2.00	2.25	113	70-130	
Cyclohexane	2.00	2.06	103	70-130	
Dibromochloromethane	2.00	2.29	115	70-130	
Dichlorodifluoromethane	2.00	2.00	100	60-140	
Ethanol	10.0	10.1	101	20-180	
Ethylbenzene	2.00	2.15	107	70-130	
Heptane	2.00	2.08	104	70-130	
Hexachlorobutadiene	2.00	1.68	84	60-140	
Hexane	2.00	1.95	97	70-130	
Indane	2.00	1.98	99	20-180	
Indene	2.00	1.96	98	20-180	
Isopentane	2.00	1.98	99	70-130	
Methylene Chloride	2.00	2.16	108	70-130	
Methyl-t-Butyl Ether (MTBE)	2.00	2.10	105	60-140	
m-Xylene & p-Xylene	4.00	4.16	104	70-130	
Naphthalene	2.00	1.85	92	40-140	
o-Xylene	2.00	2.01	100	70-130	
Propene	2.00	1.99	99	60-140	
Styrene	2.00	2.11	106	70-130	
Tetrachloroethene	2.00	2.17	109	70-130	
Tetrahydrofuran	2.00	2.09	104	60-140	
Thiophene	2.00	2.15	107	20-180	
Toluene	2.00	2.15	107	70-130	
trans-1,2-Dichloroethene	2.00	1.99	100	70-130	
trans-1,3-Dichloropropene	2.00	2.02	101	70-130	
Trichloroethene	2.00	2.07	103	70-130	
Trichlorofluoromethane	2.00	2.03	102	60-140	
Vinyl chloride	2.00	2.10	105	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

Appendix M

Photo Log of Floor Slab Penetration Caulking Work, Cooper Tank Locker Room Area

Equity Former MGP Site
222 Maspeth Avenue, Brooklyn, New York
Photo Log of Floor Slab Penetration Caulking Work, Cooper Tank Locker Room Area



Cracks in the pipe well before caulking



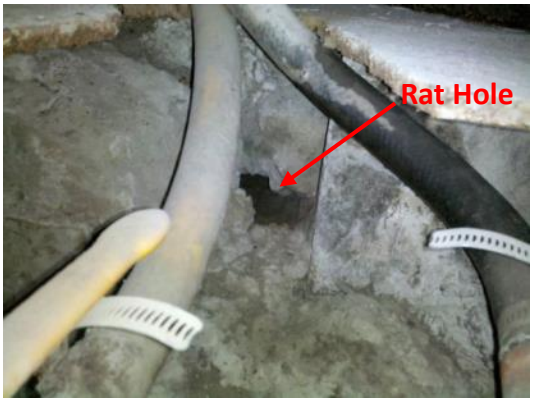
Polyurethane caulk over the Cracks



Cracks in the pipe well before caulking



Polyurethane caulk over the Cracks



Rat hole observed in the foundation



Concrete poured to close the rat hole

Equity Former MGP Site
222 Maspeth Avenue, Brooklyn, New York
Photo Log of Floor Slab Penetration Caulking Work, Cooper Tank Locker Room Area



Cracks in the pipe well before caulking



Polyurethane caulk over the Cracks



Cracks in the pipe well before caulking



Polyurethane caulk over the Cracks



Polyurethane caulk over the floor cracks



Polyurethane caulk over the floor cracks

Equity Former MGP Site
222 Maspeth Avenue, Brooklyn, New York
Photo Log of Floor Slab Penetration Caulking Work, Cooper Tank Locker Room Area



Polyurethane caulk over the joints in the pipe vault



Polyurethane caulk over the joints in the pipe vault

Appendix N

IRM Completion Reports

Prepared for:
National Grid
Brooklyn, New York

Prepared by:
AECOM
New York, NY
July 2014

Shallow Soil Interim Remedial Measure Completion Report

254 Maspeth Avenue Property
Former Equity Works Manufactured Gas Plant Site
Brooklyn, New York
NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606

Prepared for:
National Grid
Brooklyn, New York

Prepared by:
AECOM
New York, NY
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Engineering Certification

I, Michael J. Gardner, certify that I am currently a NYS registered professional engineer and that this Shallow Soil IRM Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance (DER-10).

Respectfully submitted,

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7/1/14
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List of Acronyms and Abbreviations

AECOM	AECOM Technical Services, Inc.
Bayshore Recycling	Bayshore Recycling Inc.
bgs	below ground surface
BUG	Brooklyn Union Gas Company
C&D	construction and demolition
CAMP	Community Air Monitoring Plan
CERP	Community Environmental Response Plan
CESP	Clean Earth of Southeast Pennsylvania
CHASP	Construction Health and Safety Plan
Cooper Tank	Cooper Tank Recycling
cy	cubic yards
EQ	EQ Northeast
ft	feet
IRM	Interim Remedial Measure
MGP	Manufactured Gas Plant
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	Polyaromatic Hydrocarbons
PCBs	polychlorinated biphenyls
PID	Photoionzation Detector
ppv	peak particle velocity
RI	Remedial Investigation
RPM_{10}	respirable particulate matter
SCO	Soil Cleanup Objectives
Site	former Equity Works MGP Site
SVOC	semi volatile organic compound
TVOC	Total volatile organic compounds
USGS	United States Geological Survey
VOC	volatile organic compound
Work Plan	Shallow Soil IRM Work Plan (National Grid, 2011)

1.0 Introduction

AECOM Technical Services Inc. (AECOM), on behalf of National Grid, is submitting this report summarizing and certifying the completion of construction activities for the Shallow Soil Interim Remedial Measure (IRM) conducted on the 254 Maspeth Avenue parcel of the former Equity Works Manufactured Gas Plant (MGP) site (site) located in Brooklyn, New York. The Shallow Soil IRM was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved IRM Work Plan (Work Plan) (National Grid, 2011) and pursuant to a Multi-site Order on Consent and administrative settlement with the NYSDEC, Index # A2-0552-0606.

The activities conducted as part of the Shallow Soil IRM followed the Work Plan submitted to the NYSDEC on December 16, 2011 and which was approved by the NYSDEC and New York State Department of Health (NYSDOH) on July 5, 2012. The Work Plan was developed to address readily recoverable contaminants in the shallow soil on 254 Maspeth Avenue property and was based on several site investigations including the Remedial Investigation (RI) and the Pre-Design Investigation (National Grid, 2011). The Work Plan was also developed to provide a clean corridor for the redevelopment construction activities proposed by the third-party property owner at the 254 Maspeth Avenue property.

The major construction activities for the Shallow Soil IRM were implemented over a one-month period beginning September 10, 2012 and ending September 28, 2012 and included the following:

- Removal and disposal of select surface and subsurface soils above the groundwater table for off-site thermal treatment.
- Removal of former MGP structures encountered within the excavation footprints.
- Placement of a demarcation fabric at the bottom of the excavations and placement of clean gravel backfill to 3 feet (ft) below ground surface (bgs).

A description of the site, statement of IRM objectives, and overview of this report are presented below.

1.1 Site Description

Figure 1-1 shows the location of the former Equity Works MGP site, which includes three modern properties (222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue, as identified on Figure 1-2), and its surrounding on a United States Geological Survey (USGS) topographic map. The IRM described in this report was conducted on the 254 Maspeth Avenue portion of the site.

A pre-IRM site layout map depicting the 2012 facility layout on the 254 Maspeth Avenue property and the approximate location of the former Equity Works MGP structures is presented in Figure 1-2. The site was operated as an MGP site from approximately 1893 to 1929, first by the Equity Gas Light Company and later by the Brooklyn Union Gas Company (BUG). Gas manufacturing used the carbureted water gas (aka Lowes) process. BUG sold the Site in September 1951. Subsequently, the site was used for storage (pipe and valves) for the period of 1965 to 1981, and appears to have been vacant during the period of 1986 to 1988. The site appears to have been used as a solid waste transfer facility from 1990 under the ownership of various parties.

A RI is currently being conducted at the site by National Grid. Specifics of the RI scope of work are presented in the NYSDEC-approved RI Work Plan (AECOM, 2009) and subsequent work plan addendums. Based on information obtained during the RI on the 254 Maspeth Avenue property, five former MGP era structures (former generator house, former boiler house, former tar tank, former tar separator, and former gas oil storage house) were present on the 254 Maspeth Avenue property. The locations of these former structures are shown on Figure 1-2. Foundations of each of the five former structures were encountered during the RI.

The site currently houses a waste recycling facility and associated vehicle and equipment storage, with primary site activities occurring at the 222 Maspeth Avenue parcel, currently operated by Cooper Tank Recycling (Cooper Tank). The entire site is now owned by third parties as provided below:

- 222 Maspeth Avenue – This property is owned by 222 Maspeth Avenue, LLC and is currently used as an active waste recycling/waste transfer station. Currently one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations are present on the lot. The business on the lot is operated by Cooper Tank.
- 252 Maspeth Avenue – This property is owned by Giacomo and Giovanna Bordone and is currently leased by Cooper Tank. The property is used as a maintenance center for equipment and a two story concrete building is present on the north side, along Maspeth Avenue. The business on the lot is operated by Cooper Tank.
- 254 Maspeth Avenue – This property is currently owned by 254 Maspeth Avenue, LLC and leased to Cooper Tank for occasional storage of empty roll-offs, parking of tractor-trailers, and Cooper Tank employee vehicle parking. Two rectangular concrete scales for measuring truck tare weight are located on the northern portion of the property. A storm water collection structure is located north of the truck scales. The business on the lot is operated by Cooper Tank.

The current operator of 254 Maspeth Avenue property, Cooper Tank, is in the process of amending a NYSDEC Part 360 Permit for operating a recycling facility. This permit, which will include expansion of the current 222 Maspeth Avenue facility into the 252 and 254 Maspeth Avenue properties, requires construction of a minimum 8-inch thick concrete pad across the entire surface of the site, a storm water collection system, and a 30-foot high wall along the perimeter of the 254 Maspeth Avenue property. These activities will be invasive and could encounter residual MGP waste observed during the ongoing RI activities. As a result, National Grid and the NYSDEC agreed that this Shallow Soil IRM was to be performed on the 254 Maspeth Avenue property prior to the redevelopment activities.

1.2 IRM Objectives

The objectives of the Shallow Soil IRM were to:

- Remove, to the extent possible, visual MGP-residual impacts observed in soils above the water table (or to a minimum depth of 5 ft bgs if the water table is shallower) on the 254 Maspeth Avenue property. The limits of excavation as detailed in the Work Plan are shown in Figure 1-3.
- Provide a safe working environment, with relation to the potential exposure to MGP-residual impacts, during the proposed redevelopment of the 254 Maspeth Avenue property (Figure 1-4).

Soils that were visually impacted with MGP-residuals were targeted for removal during the Shallow Soil IRM, as they were identified as sources that were readily recoverable and could potentially be exposed during the redevelopment of the 254 Maspeth Avenue property. Cooper Tank, responsible for the proposed

redevelopment of the 254 Maspeth Avenue property, had stated to National Grid that field activity during the proposed redevelopment would extend to a maximum depth of 5 ft bgs. Any remaining deeper MGP-residual impacts encountered during the excavation activities were to be identified with plastic sheeting to identify and mitigate exposure to the underlying material.

During the IRM, groundwater was observed at depths below 5 ft bgs at an approximate depth of 7 ft bgs. As such, soils within the limits of the Shallow Soil IRM were removed to an average depth of 7 ft bgs. Any remaining deeper MGP-residual impacts across the 254 Maspeth Avenue property are being addressed by demarcation at the bottom of the Shallow Soil IRM excavations, the product recovery IRM (separate from this soil removal IRM), and by current interim Site Management Plan for the site.

1.3 Report Overview

Section 2 presents the details of the IRM construction activities. Section 3 presents a summary of the construction activities and Section 4 contains references.

2.0 IRM Activities

EQ Northeast (EQ) was selected by National Grid to serve as the primary remediation contractor to complete the remedial construction work as detailed in the Work Plan (AECOM, 2011) and in accordance with the contract documents including specifications and design drawings. EQ was also responsible for the Health and Safety of its employees, subcontractors, suppliers, agents, inspectors, visitors, the general public, and any others associated with or interacting with EQ to provide labor, goods, or other services during the Shallow Soil IRM. AECOM served as the construction manager and engineer. AECOM's responsibilities included (1) monitoring compliance with the Work Plan and the Contract Documents, (2) documenting the construction activities and excavation quantities, and (3) performing perimeter air monitoring and vibration monitoring.

The Shallow Soil IRM was conducted from September 10, 2012 through September 28, 2012 by implementing the objectives of the Shallow Soil IRM, including removal and treatment/disposal of shallow soils above the groundwater table as discussed in Section 1.2 and shown in Figure 1-3. The main components of the IRM included:

- Mobilization and Work Area Preparation
  - Public Relations and Communication
  - Soil Profile
  - Work Area Preparation
  - Utility Survey
  - Decontamination Pad Installation
  - Background Monitoring
  - Security
- Environmental Controls
  - Community Air Monitoring Plan (CAMP)
  - Odor, Vapor, and Dust Control Plan
  - Vibration Monitoring Plan
  - Transportation Plan
  - Decontamination
- Excavation
  - Geotechnical Engineering Control
  - Materials Removal, Transportation, and Treatment/Disposal
  - Backfill and Compaction
- Restoration

- Surveying
- Demobilization

The remainder of this section describes these main components of the IRM. A photographic log documenting portions of the IRM is presented in Appendix A.

2.1 Mobilization and Work Area Preparation

An initial kick-off meeting was held on September 6, 2012 with representatives from National Grid, AECOM, and EQ. AECOM mobilized to 254 Maspeth Avenue property on September 6 to setup CAMP equipment and conduct background air monitoring, setup vibration monitoring equipment and conduct background vibration monitoring, and oversee the pre-construction structural survey of 254 Maspeth Avenue and adjacent properties. The pre-construction survey was performed by H2M Architects and Engineers of Long Island, New York.

EQ mobilized to the 254 Maspeth Avenue property on September 10, 2012 and initiated mobilization, work area management, and preparation. The preparation for remedial activities began immediately upon mobilization of equipment and personnel. Mobilization activities were completed on September 13, 2013 and work area preparation activities were completed on September 14, 2013, and included:

- Public relations and communications.
- Obtaining required permits, arranging for waste transportation, arranging for utility hook-ups (as needed), staging necessary equipment and personnel, preparing the Construction Health and Safety Plan (CHASP), and holding an on-site health and safety training session.
- Establishing parking areas, haul routes, and work zones for authorized personnel.
- Constructing the decontamination facility.
- Installation of erosion controls in accordance with local, state, and federal regulations. The erosion and sedimentation controls were maintained throughout the duration of the work.
- Work Area security including security personal, installation of temporary construction fence, and placement of fabric screen.
- Relocation and/or clearing of debris within work areas.
- Characterization and removal of unknown drums within work areas.
- Survey by a New York State-licensed surveyor for initial benchmarks and stakeout for the excavation limits.
- Installing perimeter air monitoring stations and notification system.
- Vibration monitoring setup and baseline monitoring.
- Level B Utility survey and protection.
- Construction of staging and containment areas and construction entrance.
- Traffic control and management.
- A NYSDEC-approved project sign was erected at the project entrance and remained in place during the Shallow Soil IRM.

2.1.1 Public Relations and Communication

Prior to mobilization, NYSDEC-approved Fact Sheets were distributed to property owners adjacent to the 254 Maspeth Avenue property. Additionally, National Grid representatives made contact with all neighbors, local NYSDEC officials, and other state and local government officials. National Grid established this communication plan to ensure all stake holders were aware of the proposed project and had a single point of contact for any questions and concerns that might have arisen during the work. The extensive communications plan was considered a success, as National Grid received no comments and/or complaints during the duration of the project.

2.1.2 Soil Profile

Prior to mobilization, soil profile data was collected from the area designated for excavation and provided to Clean Earth of Southeast Pennsylvania (CESP) and Bayshore Recycling Inc. (Bayshore Recycling) thermal treatment facilities for approval. Based on the soil profile data, Bayshore Recycling was able to approve a fast track schedule for accepting soils at their facility. This allowed the remediation contractor to:

- Aggressively plan remedial and construction activities prior to mobilization.
- Enhance excavation schedule by increasing haul truck frequency.
- Reduce onsite soil management activities.
- Improve site control due to minimal soil stockpiling on-site.
- Improve odor and vapor control due to efficient management of soils onsite.

2.1.3 Utility Survey

Prior to excavation, Dig Safely New York was contacted and companies with subsurface utilities at the 254 Maspeth Avenue were asked to mark-out their utilities in the areas of excavation. Copies of available New York City sewer and water maps from the 254 Maspeth Avenue property vicinity were also obtained and reviewed during underground utility clearance procedures. Additionally, historical mark-outs were reviewed and potential utility locations discussed with the property owner and with Cooper Tank. Following review of the utilities in the work area, a private company surveyed the excavation footprint for any potential utilities using geophysical methods. These protocols predicted that subsurface utilities were not present in the excavation areas, and utilities were not encountered during the excavation activities.

2.1.4 Decontamination Facility

A temporary, 12 ft x 48 ft equipment decontamination facility was constructed on the north portion of the work area and to the south of the Cooper Tank truck scales. The decontamination facility included placement of berms and 48-inch landfill liners with a slight slope to a corner sump. All trucks were dry decontaminated with the use of brushes and brooms prior to leaving the work area. Equipment used within the exclusion zones (excavation areas) was decontaminated using a pressure washer.

2.1.5 Background Monitoring

A background set of air and vibration monitoring data was established prior to excavation. A one-day set of volatile organic compounds (VOCs) and dust measurements were collected via photoionization detectors (PIDs) and DustTrak monitors respectively to establish background ambient air conditions. A three-day set of vibration measurements were collected to establish background vibration conditions.

2.1.6 Work Area Security

A temporary security trailer was installed near the entrance of the work area, and an off-hour security guard was present for the duration of the Shallow Soil IRM. Site personnel acted as site security during work hours. A temporary construction fence was installed south of the Cooper Tank truck scales and along the south boundary of the property to prevent unauthorized entry into the work area. A fabric screen was installed on the existing fence surrounding the property to help control dust, prevent horizontal migration of odors, and elevate the discharge point of emissions of vapors to facilitate dispersion, minimize their effect on downwind receptors, and limit visibility of the excavation.

2.2 Environmental Controls

Due to the immediate proximity of commercial businesses to the Shallow Soil IRM activities, management of odors, vapors, dust, noise, and vibration was an important component of this project. The NYSDEC-approved Community Environmental Response Plan (CERP) was developed to identify and address environmental impacts to the community resulting from the implementation of the Shallow Soil IRM. The CERP was approved by the NYSDEC in 2012 and included the plans listed in the following sub-sections.

2.2.1 Community Air Monitoring Plan

The Community Air Monitoring Plan [(CAMP), Appendix A of the CERP (AECOM, 2012)] was implemented during the Shallow Soil IRM activities. The purpose of the CAMP was to provide an early warning system to alert AECOM and National Grid that concentrations of total volatile organic compounds (TVOCs), respirable particulate matter (RPM_{10}) (*i.e.*, dust), or odors in ambient air were approaching alert levels or action levels due to Shallow Soil IRM activities. The early detection of emissions and associated contingency measures was intended to expedite any necessary mitigation measures and to reduce the potential for the community to be exposed to constituents at levels above accepted regulatory limits and recommended guidelines. Appendix B contains the perimeter air monitoring data, including the background data and real-time monitoring data (DustTrak and PID data).

As outlined in the CAMP, a four-tiered classification and warning system based on Action Levels was used to provide warning and mitigation procedures to prevent emissions during the Shallow Soil IRM. Action level concentrations for TVOCs and RPM_{10} were developed in accordance with the generic NYSDOH CAMP (NYSDEC, 2010). The four-tiered warning system was based on real-time contaminant concentrations averaged over a fifteen-minute period. Response actions were implemented when TVOC, particulates, or odors exceeded the alert levels or action levels.

Parameter	Alert Limit	Action Limit	Operational Level	Alert Level	Action Level	Shut Down
TVOC – ppmv	3.7	5.0	$[C] \leq 3.7$	$3.7 < [C_{avg}] \leq 5.0$	$5.0 < [C_{avg}] \leq 25$	$[C_{avg}] > 25$
Benzene- ppmv	0.8	1	$[C] \leq 0.8$	$0.8 < [C_{avg}] \leq 1.0$	$[C_{avg}] > 1$	
RPM_{10} - $\mu g/m^3$	100	150	$[C] \leq 100$	$100 < [C_{avg}] \leq 150$	$[C_{avg}] > 150$	

Real-time air monitoring for TVOCs and RPM_{10} was conducted continuously during periods of intrusive activity at upwind and downwind locations along the perimeter of work area. Upwind TVOC concentrations were measured at the start of each workday and periodically thereafter to establish background conditions. The locations of the instruments were changed during the day to adapt to changing wind directions.

Portable (battery operated) monitoring stations were used to collect the real-time data and included the following components: station case and tripod; total organic vapor analyzer; particulate monitor and data logger. The monitoring data was converted to 15-minute averages, and stored in data-loggers at each location. The averaged values were compared to the Alert/Action Levels. The units were equipped with an audible alarm to indicate exceedances of these levels.

There were no measurements of TVOCs and RPM_{10} above the alert or action level for a 15-minute period at the downwind monitoring station that were associated with intrusive activities during Shallow Soil IRM. The RPM_{10} recorded above the alert and/or action level at the upwind location (PMT-1) are likely due to off-site operations and not associated with the intrusive activities on the site as all downwind measurements were below the action level. The CAMP Report is included in Appendix B.

2.2.2 Odor, Vapor and Dust Control Plan

Odor, vapor, and dust control were required due to the immediate proximity of commercial business. A three-tiered set of controls were implemented during the Shallow Soil IRM as per the NYSDEC approved Odor Vapor and Dust Control Plan (Appendix B of CERP [AECOM, 2012]).

2.2.2.1 Level I

Level I controls were built into the design of the Shallow Soil IRM and included proactive measures to minimize the effect of fugitive emissions. These included:

- Placement of a visual barrier cloth on the property perimeter fencing. The resistance caused by the visual barrier elevated the discharge point of any emissions leaving the Work Area to the top of the perimeter fence and promoted better atmospheric mixing and dispersion of any emissions.
- Use of 10-mil polyethylene liners and tarps on trucks used to transport impacted material. All trucks used for off-site transport had liners and tarps in place to cover impacted material. On-site haul routes were routinely wetted to control dust.
- Covering all stockpiles of impacted material if left inactive for a period of more than 2 hours.

2.2.2.2 Level II

Level II controls included procedures that were implemented in response to specific increases in fugitive emissions, but were not likely to have a significant impact in the schedule of Shallow Soil IRM activities. The following Level II controls were implemented during the remedial action:

Suppressing Agents

Odor suppressant foam for VOC mitigation and water spray for dust suppression were applied over emissions sources for controlling emissions. Odor suppressant foam (Rusmar AC-600) was created by the injection of air into a foam concentrate/water mixture using a pneumatic foam unit. The foam was applied via a hose to cover excavations/stockpiles, and during the loading of trucks to a thickness of 3 to 6 inches to control VOC and odor emissions.

Spray of water was used to minimize the amount of dust created.

Tarps

Tarps provided effective control for source areas that were likely to be inactive for extended periods of time. Rolls of 6-mil polyethylene were used to cover inactive stockpiles. Tarps were also used for covering

exposed soils loaded into trucks. All trucks were lined with 10-mil polyethylene sheeting, the liners large enough to overlap and fully cover the top of the load. Additional automatic mesh tarps were used to secure the liners.

2.2.2.3 Level III

Level III controls included procedures that would have been initiated in response to specific increases in fugitive emissions that were likely to have a more significant impact on production schedule and Shallow Soil IRM activities. Level III controls are required when Level II controls had been exhausted and ambient concentrations of emissions continued to exceed the site-specific action levels. No Level III procedures were employed during the Shallow Soil IRM.

The excavation was performed with no odor and vapor complaints from the nearby businesses.

2.2.3 Vibration Monitoring Plan

The Vibration Monitoring Plan detailed in the CERP (AECOM, 2012) approved by the NYSDEC described the procedure to monitor potential vibration and settlement impacts resulting from the Shallow Soil IRM. The Vibration Monitoring Plan identified the receptors, the relevant damage criteria, monitoring equipment, the proposed monitoring locations, and the mitigation procedures for responding to observed exceedances of the vibration and settlement thresholds. Pre-construction vibration monitoring was conducted to establish a baseline.

Vibration monitors were installed along the northern wall of the warehouse building on 7 Rewe Street property as identified in the Vibration Monitoring Plan. An Instantel MiniMate Plus with mounted triaxial geophones was used for continuous vibration monitoring. The vibration monitor was setup with an event trigger corresponding to the site-specific Warning Action Limit (2 peak particle velocity (ppv)) and action levels (5 ppv). In cases when the limit was reached, the vibration monitor recorded, saved, and sent out the event report through an email message system to the monitoring staff and field engineer. After each event the monitoring staff and field engineer evaluated potential sources causing such an event and defined a mitigation measure if necessary.

No exceedance of structural damage warning threshold was recorded. A Vibration Monitoring Report is included in Appendix C.

2.2.4 Transportation Plan

The Transportation Plan (Appendix C of the CERP [AECOM, 2012]) approved by NYSDEC described the procedures and the specific offsite transportation routes that were followed to manage construction traffic during the Shallow Soil IRM in a manner that minimized disturbance to the community.

The Transportation Plan was strictly adhered to during the Shallow Soil IRM. All trucks used for hauling were permitted for waste transport in the State of New York. The trucks were loaded directly from excavations, or from an on-site stockpile area to ensure impacted material did not spread throughout the Work Area. The vehicles were loaded in such a way as to avoid contamination of their exteriors, including tires. Each truck was lined with 10-mil-thick polyethylene sheeting (as opposed to the 12-mil requirement in the Transportation Plan) prior to loading. A plastic liner was also wrapped over loaded soils to minimize odors during transport. No soils with free liquids were shipped from the Work Area. Odor-suppressing foam was applied to the material on the trucks. All trucks were covered with an automatic mesh tarp prior to leaving the Work Area to ensure that no material was blown off the truck during transportation and to minimize the release of odors. After loading, all trucks entered a decontamination pad where dry brushing

ensured that any residual soil was removed from the truck body, wheels, and tires and impacted soils did not track onto the streets.

Waste shipments were documented using the required waste manifests. All shipments of waste from the Site had documentation, describing the type and amount of material and the receiving facility. Each truck was dispatched from the Work Area with the appropriate bill-of-lading or manifest, and followed the prescribed transportation route to its destination.

2.2.5 Decontamination

During the excavation activities, decontamination of equipment was performed in order to prevent cross contamination as well as to prevent contaminated material from spreading off-site during waste hauling activities. Trucks used for transportation of excavated material were decontaminated using dry decontamination methods (*i.e.*, removal of loose material with a broom or brush). These methods, along with parking of trucks on plastic sheeting during loading, were effective at preventing the spread of contaminated materials onto roadways during transport to disposal facilities. Decontamination of the earth-moving equipment occurred at the completion of the excavation phase and prior to the handling of clean backfill. The method of equipment decontamination consisted of dry methods to remove any impacted soil.

2.3 Excavation

The excavation activities were the main remedial action conducted as part of the Shallow Soil IRM. Components of the successful excavation operation included geotechnical engineering control, material removal, transportation and treatment/disposal, and backfill and compaction. Figure 2-1 presents an as-built drawing of the completed excavation. Daily activity reports were maintained by the Site Engineer and EQ and are included in Appendix D. Each activity is discussed below.

2.3.1 Geotechnical Engineering Control

The 254 Maspeth Avenue property is bounded on the south by a one-story brick Warehouse building (7 Rewe Street), east by the Fed Ex property chain link fence, and to the west by the 252 Maspeth Avenue property perimeter concrete wall. As such, benching of the excavation areas were designed and implemented as an engineering control to prevent the risk of building collapse, foundation collapse, fence collapse, and/or personnel injury. Benching procedures involved excavation adjacent to the surface structures to the depth of the footer with deeper excavation completed at a 1:1 (horizontal to vertical) slope to the final excavation depth. The site engineer performed visual inspections at least twice per day, documenting the extent of the excavation at the time of inspection, and documenting any findings based on observation of the building and excavation. In addition, as detailed in Section 2.2.3, a vibration monitor was placed adjacent to the Warehouse building to ensure that the excavation did not result in any damage to the warehouse building structure. The vibration monitor was equipped with remote alarm system to alert the site engineer of any exceedance of vibration alert [2 peak particle velocity (ppv)] and action levels (5 ppv). No exceedance of the structural damage warning threshold was recorded.

2.3.2 Materials Removal, Transportation, and Treatment/Disposal

Materials removed during the Shallow Soil IRM include soil and fill material, domestic trash, unknown foundations, historic piping, and construction & demolition (C&D) debris. Former MGP structure walls and foundations are believed to have been encountered during excavation as evidenced by concrete and brick fragments but could not be conclusively determined. As described in the Work Plan, excavation was conducted in four discrete locations on the southern portion of the 254 Maspeth Avenue property. The four

excavations were designated as Area A, Area B, Area C, and Area D as shown in Figure 2-1, and a cross section of each excavation area is shown in Figure 2-2. Details of the excavation areas are provided below.

2.3.2.1 Area A

Fill material consisting of soil and C&D debris was removed to an approximate depth of 7 to 8 ft bgs in Area A. The lateral limits of excavation were extended eastward to remove visible MGP-residual impacted soil observed at approximately 5 ft bgs. Visible MGP-residual impacted soil was observed on the northern wall of the excavation at a depth of 4 to 6 ft bgs but could not be removed due to the presence of perimeter fence separating the 254 Maspeth Avenue property and the Fed Ex property. Brick and concrete fragments believed to have been the former Tar Separator were observed on the northern wall of the excavation.

Approximately 37.4 cubic yards (cy) (in-place volume) of fill material was removed from Area A. The fill material was stockpiled over 10-millimeter liner prior to off-site transportation. The fill material was transported via lined trucks to Bayshore Recycling for thermal treatment and disposal. An orange demarcation fabric was placed at the bottom of the excavation (7 to 8 ft bgs). The excavation was backfilled with clean stone backfill to approximately 3 ft bgs following placement of the demarcation fabric, because the site-improvement activities by Cooper Tank involved the excavation of the same areas, so backfill was not required from 0 to 3 ft bgs. Backfill was later provided by Cooper Tank upon completion of their wall foundation construction activities.

2.3.2.2 Area B

Fill material consisting of soil, boulders, and C&D debris was removed to an approximate depth of 5 ft bgs in Area B. The lateral limits of excavation were extended southward to remove visible MGP-residual impacted soil observed at approximately 5 ft bgs. The excavation was also vertically extended to a depth of 6 ft bgs on the southern portion of Area B to remove visible MGP-residual impacted soils. Excavation was laterally extended till no visual MGP-residual impacts were observed.

Approximately 20.4 cy (in-place volume) of fill material was removed from Area B. The fill material was stockpiled over a 10-mil liner prior to off-site transportation. The fill material was transported via lined trucks to Bayshore Recycling for thermal treatment and disposal. An orange demarcation fabric was placed at the bottom of the excavation (5 to 6 ft bgs). The excavation was backfilled with clean stone backfill to approximately 3 ft bgs following placement of the demarcation fabric. Backfill was later provided by Cooper Tank upon completion of their wall foundation construction activities.

2.3.2.3 Area C

Fill material consisting of soil, domestic trash, and C&D debris was removed to an approximate depth of 5 ft bgs in Area C. The lateral limits of excavation were extended approximately 8 to 10 ft to the south to remove visible MGP-residual impacted soil observed at approximately 4 to 6 ft bgs. The excavation was also vertically extended to a depth of 7 ft bgs on the northern, western, and southwestern portion of Area C to removed visible MGP-residual impacted soils. Visible MGP-residual impacted soil was also observed on the eastern wall of the excavation at a depth of 3 to 5 ft bgs but could not be removed due to the presence of perimeter fence separating the 254 Maspeth Avenue property and the Fed Ex property. Approximately 432 cy (in-place volume) of fill material was removed from Area C.

The fill material was stockpiled over a 10-mil liner prior to off-site transportation. The fill material was transported via lined trucks to Bayshore Recycling for thermal treatment and disposal. An orange demarcation fabric was placed at the bottom of the excavation (5 to 7 ft bgs). The excavation was backfilled

with clean stone backfill to approximately 3 to 4 ft bgs following placement of the demarcation fabric. Backfill was later provided by Cooper Tank upon completion of their wall foundation construction activities.

2.3.2.4 Area D

Fill material consisting of soil, domestic trash, and C&D debris was removed to an approximate depth of 5 to 7 ft bgs in Area D. The lateral limits of excavation were extended approximately 3 feet to the east to remove visible MGP-residual impacted soil observed at approximately 4 ft bgs. A portion of the excavation was also extended north to remove visible MGP-residual impacted soil. Visible rMGP-residual impacted soil was observed on the southern wall of the excavation at a depth of 3 to 5 ft bgs but could not be removed due to the proximity of the Warehouse building on the 7 Rewe Street property. Approximately 284.8 cy (in-place volume) of fill material was removed from Area C.

The fill material was stockpiled over 10-mil liner prior to off-site transportation. The fill material was transported via lined trucks to Bayshore Recycling for thermal treatment and disposal. An orange demarcation fabric was placed at the bottom of the excavation (5 to 7 ft bgs). The excavation was backfilled with clean stone backfill to ground surface following placement of the demarcation fabric.

2.3.2.5 Means and Methods for Materials Removal, Transportation, and Treatment/Disposal

Stockpiled soils were covered with 10-mil polyethylene sheeting during periods of anticipated precipitation to prevent run-off, erosion, and absorption of excessive moisture, which could affect the handling and thermal treatment properties of the soils. Stockpiled soils left more than two hours, including overnight periods, were covered with plastic sheeting and/or odor suppressing agents.

As detailed above, the implementation of the Shallow Soil IRM resulted in the removal of fill and non-hazardous MGP-residual impacted soils and C&D debris. Fill material consisting of soil, domestic trash, tires, piping, and plastic materials were removed from the excavation areas. Several surface and subsurface concrete/brick/steel walls and foundations, monitoring wells, historic piping, wood piles, metal debris, abandoned utility lines, and other miscellaneous structures had to be demolished and removed from the excavation areas. All C&D debris was broken up with an excavator bucket if needed, and shipped off-site for disposal with the non-hazardous, MGP-residual impacted soils.

A total of 68 loads with 1,671.35 tons of non-hazardous, MGP-residual impacted soils and non-hazardous construction debris were excavated and transported off-site for thermal treatment at Bayshore Recycling. Table 2-1 shows the daily summary of material removed during the Shallow Soil IRM. A detailed summary of the debris quantities and types is provided in Appendix E. Manifests from Bayshore Recycling are also provided in Appendix E. The Certificates of Recycling are presented in Appendix F.

2.3.3 Backfill and Compaction

Following excavation activities and documentation of the limits of excavation by the remediation contractor (EQ) and the site engineer, backfill of the excavation was conducted in accordance with the EQ's technical execution plan and included placement of clean 1 to 2.5-inch stone in 12-inch lift to a level of approximately 3 ft below the original grade except Area D. The stone backfill was placed to grade in Area D. Backfill was only placed to 3 ft below the original grade in Areas A, B, and C because the site-improvement activities by Cooper Tank involved the excavation of the same areas, so backfill was not required from 0 to 3 ft bgs.

The stone backfill material was brought to the 254 Maspeth Avenue property in tri-axle dump trucks from the Armored Inc. located in Newark, New Jersey. The borrow source backfill material was tested prior to delivery for metals, polycyclic aromatic hydrocarbons (PAHs), semivolatile organic compounds (SVOCs),

and VOCs, pesticides, polychlorinated biphenyls (PCBs), and herbicides. The laboratory analytical results are included in Appendix G. Table 2-2 summarizes chemical analytical results for backfill, in comparison to Unrestricted Use SCOs from 6 New York Codes, Rules and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives (NYSDEC 2006).

A total of 940.21 tons of clean stone backfill was bought on-site and placed within the excavation areas.

2.4 Site Restoration

Areas disturbed during construction, aside from the excavation areas, were re-graded to match the surrounding areas. All remnants of the remediation activities were removed from the 254 Maspeth Avenue property after completion of remediation activities. A survey was completed to document that the final surface met the elevation and slope specified in the design documents and drawings. The final restored site condition is shown in the as-built Figure 2-3.

2.5 Demobilization

Upon completion of site restoration and backfilling, the contractor began to demobilize their equipment and materials from the site. Demobilization began the week of September 24 and was completed by October 4, 2012. Demobilization activities included the removal of all construction equipment, odor/vapor suppression equipment, construction materials, and debris. In addition, all temporary facilities and utilities were removed. The temporary excavation fencing around Area A, B, and C excavations were left in place for site control and safety until Cooper Tank implemented their construction activities.

3.0 Summary

The Shallow Soil IRM was successfully completed at the 254 Maspeth Avenue portion of the former Equity Works MGP site in accordance with the Work Plan and included the following activities:

- Excavation of approximately 774.6 cy of non-hazardous MGP-residual impacted soil and non-hazardous C&D materials.
- Offsite transportation and thermal treatment/disposal of 1,671.35 tons of non-hazardous MGP-residual impacted soil and non-hazardous C&D materials to Bayshore Recycling.
- A total of 940.21 tons of stone backfill material was transported to the 254 Maspeth Avenue property and placed in the excavation areas.
- The CERP Plan successfully minimized community impacts during the RA.
- Disturbed areas of the work area were regraded and/or covered with 6-inch gravel cover to be restored to final design elevations.

4.0 References

AECOM, Inc., 2009. Remedial Investigation Work Plan, Equity Former MGP Site, Brooklyn New York, July, 2009.

AECOM, Inc., 2012, Community and Environmental Response Plan, 254 Maspeth Avenue Parcel IRM, July, 2012.

National Grid, 2011. Letter to Henry Willems, New York State Department of Environmental Conservation, *RE: Pre-Design Investigation Report and Interim Remedial Measure Work Plan – 254 Maspeth Avenue Property, Equity Former Works Manufactured Gas Plant (MGP) Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606*, December 16, 2011.

New York State Department Environmental Conservation, (NYSDEC), 2006. 6 NYCRR Subpart 375-6: Remedial Program Soil Cleanup Objectives December 14, 2006.

NYSDEC, 2010a. DER-10/Technical Guidance for Site Investigation and Remediation, Appendix 1A – New York State Department of Health Generic Community Air Monitoring Plan, May 3, 2010.

NYSDEC, 2010b. CP-51 – Soil Cleanup Guidance, October 21, 2010.

Tables

Table 2-1
Material Disposal Daily Summary
Former Equity Works Manufactured Gas Plant
Brooklyn, New York

Ticket	Manifest	Truck	Gross	Tare	Net	Bill Units		Tons
BSM0087 - EQ NORTHEAST INC								
09/17/2012								
154532	072655	AP701B	65760	28500	37260	18.63	TN	18.63
154572	072656	AN981W	67700	32440	35260	17.63	TN	17.63
154576	072657	AN383M	76500	30840	45660	22.83	TN	22.83
154607	072658	AN533Y	78300	32560	45740	22.87	TN	22.87
154613	072659	AL256S	75380	28920	46460	23.23	TN	23.23
154841	072660	AP701B	76740	28500	48240	24.12	TN	24.12
154889	072662	AN383M	74560	30840	43720	21.86	TN	21.86
154897	072661	AN981W	87080	32440	54640	27.32	TN	27.32
154937	072663	AN533Y	80600	32560	48040	24.02	TN	24.02
154959	072664	AL256S	78440	28920	49520	24.76	TN	24.76
09/17/2012								227.27
10 tickets and 10 transactions								
09/18/2012								
155108	072665	AL256S	79340	28920	50420	25.21	TN	25.21
155119	072666	AL616K	80300	29120	51180	25.59	TN	25.59
155125	072667	AM818N	83780	27840	55940	27.97	TN	27.97
155255	072668	AL256S	80560	28920	51640	25.82	TN	25.82
155258	072669	AL616K	83380	29120	54260	27.13	TN	27.13
155269	072670	AM818N	66640	27840	38800	19.40	TN	19.40
09/18/2012								151.12
6 tickets and 6 transactions								

Table 2-1
Material Disposal Daily Summary
Former Equity Works Manufactured Gas Plant
Brooklyn, New York

Ticket	Manifest	Truck	Gross	Tare	Net	Bill Units		Tons
09/19/2012								
155465	072675	AL616K	88680	29120	59560	29.78	TN	29.78
155518	072677	AL256S	84920	28920	56000	28.00	TN	28.00
155522	072676	AM818N	79760	27840	51920	25.96	TN	25.96
155751	072672	AL616K	85380	29120	56260	28.13	TN	28.13
155752	072673	AM818N	81900	27840	54060	27.03	TN	27.03
155768	072674	AL256S	82360	28920	53440	26.72	TN	26.72
155810	072678	AP701B	72860	28500	44360	22.18	TN	22.18
09/19/2012								187.80
7 tickets and 7 transactions								
09/20/2012								
155989	072671	AM818N	74440	27840	46600	23.30	TN	23.30
156009	072679	AL961P	59820	28180	31640	15.82	TN	15.82
156035	072680	AL616K	70100	29120	40980	20.49	TN	20.49
156038	072681	AL256S	76700	28920	47780	23.89	TN	23.89
156185	072682	AP701B	77580	28500	49080	24.54	TN	24.54
156229	072684	AL961P	71340	28180	43160	21.58	TN	21.58
156230	072683	AM818N	79200	27840	51360	25.68	TN	25.68
156241	072686	AL256S	79500	28920	50580	25.29	TN	25.29
156272	072685	AL616K	76160	29120	47040	23.52	TN	23.52
09/20/2012								204.11
9 tickets and 9 transactions								

AECOM

Table 2-1
Material Disposal Daily Summary
Former Equity Works Manufactured Gas Plant
Brooklyn, New York

Ticket	Manifest	Truck	Gross	Tare	Net	Bill Units		Tons
09/21/2012								
156397	072687	AP701B	73660	28500	45160	22.58	TN	22.58
156532	072688	AL256S	80460	28920	51540	25.77	TN	25.77
156560	072689	AK201S	80660	29280	51380	25.69	TN	25.69
156575	072691	AL616K	76300	29120	47180	23.59	TN	23.59
156576	072690	AL718E	77400	29300	48100	24.05	TN	24.05
156609	072692	AP701B	75360	28500	46860	23.43	TN	23.43
156707	072693	AN382M	75220	31760	43460	21.73	TN	21.73
156736	072694	AL256S	77660	28920	48740	24.37	TN	24.37
156750	072695	AK201S	74800	29200	45600	22.80	TN	22.80
156763	072696	AL718E	74620	29300	45320	22.66	TN	22.66
156882	072698	AP701B	76460	28500	47960	23.98	TN	23.98
156885	072697	AL616K	73820	29120	44700	22.35	TN	22.35
156889	072699	AN382M	78000	31760	46240	23.12	TN	23.12
09/21/2012								306.12
13 tickets and 13 transactions								
09/24/2012								
157234	072700	AP701B	71140	28500	42640	21.32	TN	21.32
157239	072701	AL718E	85600	29300	56300	28.15	TN	28.15
157252	072702	AK597T	81920	28160	53760	26.88	TN	26.88
157272	072703	AN983L	79880	30760	49120	24.56	TN	24.56
157276	072704	AP139A	79940	28360	51580	25.79	TN	25.79
157315	072705	AL256S	81900	28920	52980	26.49	TN	26.49
157445	072706	AP701B	79020	28500	50520	25.26	TN	25.26
157454	072707	AL718E	77700	29300	48400	24.20	TN	24.20
157464	072708	AK597T	76320	28160	48160	24.08	TN	24.08
157496	072709	AN983L	76340	30780	45560	22.78	TN	22.78
157506	072710	AP139A	76900	28360	48540	24.27	TN	24.27
157518	072711	AL256S	79700	28920	50780	25.39	TN	25.39
09/24/2012								299.17
12 tickets and 12 transactions								

Table 2-1
Material Disposal Daily Summary
Former Equity Works Manufactured Gas Plant
Brooklyn, New York

Ticket	Manifest	Truck	Gross	Tare	Net	Bill Units		Tons
09/25/2012								
157823	072712	AL961P	70240	28180	42060	21.03	TN	21.03
157855	072713	AN983L	82480	30780	51700	25.85	TN	25.85
157870	072714	AK597T	87740	28160	59580	29.79	TN	29.79
157871	072715	AL616K	86660	29120	57540	28.77	TN	28.77
157974	072716	AN581J	82000	25940	56060	28.03	TN	28.03
157976	072718	AL961P	74540	28180	46360	23.18	TN	23.18
157978	072719	AN983L	78660	30780	47880	23.94	TN	23.94
158086	072720	AK597T	84600	28160	56440	28.22	TN	28.22
158090	072717	AL256S	93020	28920	64100	32.05	TN	32.05
09/25/2012								240.86
9 tickets and 9 transactions								
09/26/2012								
158334	072721	AL256S	82420	28920	53500	26.75	TN	26.75
09/26/2012								26.75
1 ticket and 1 transaction								
09/27/2012								
158732	072722	AL616K	85420	29120	56300	28.15	TN	28.15
09/27/2012								28.15
1 ticket and 1 transaction								
Totals								1,671.35
68 tickets and 68 transactions								

Table 2-2
Comparison of Backfill Analytical Data Results to Commercial SCO
Former Equity Works Manufactured Gas Plant
Brooklyn, New York

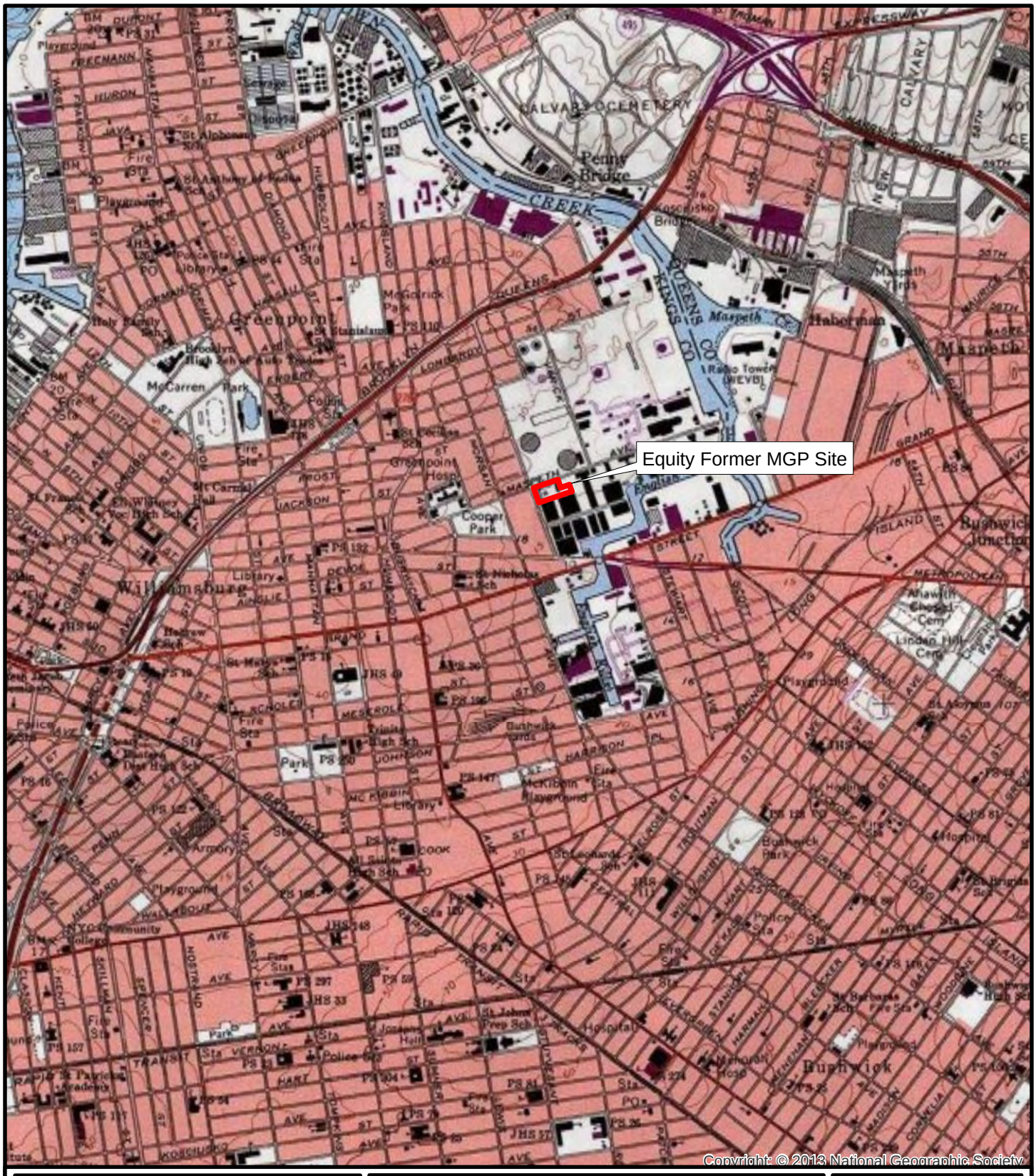
Constituent	Allowable Constituents Level for Imported Fill, mg/kg NYSDEC DER-9		Sample Results, mg/kg	
			Grasselli Backfill	
	Unrestricted	Restricted Commercial or Industrial	1209A99-001	12009A99-002
Metals				
Arsenic	13.00	16	< 1.05 U	< 1.1 U
Barium	350.00	400	126	134 U
Beryllium	7.20	47	< 0.53 U	< 0.55 U
Cadmium	2.50	7.50	< 0.53 U	< 0.55 U
Chromium, Hexavalent[1]	1.00	19	< 1.0 U	< 1.1 U
Chromium, Trivalent	30.00	1500	30.7	26 +
Copper	50.00	270	25.70	16.2
Cyanide, Total	27.00	27	< 0.520 U	< 0.54 U
Lead	63.00	450	6.05	14.6
Manganese	1600.00	2000	212	253
Mercury	0.18	0.73	< 0.21 U	< 0.22 U
Nickel	30.00	130	23.7	25.2
Selenium	3.90	4	< 0.53 U	< 0.55 U
Silver	2.00	8.30	< 1.05 U	< 1.1 U
Zinc	109.00	2480	66	63.2
PCBs/Pesticides				
2,4,5-TP (Silvex)	3.800	3.80	0.0086	0.063
4,4'-DDE	0.003	17.00	< 0.0035 U	< 0.0036 U
4,4'-DDT	0.003	47.00	< 0.0035 U	< 0.0036 U
4,4'-DDD	0.003	14.00	< 0.0035 U	< 0.0036 U
Aldrin	0.005	0.19	< 0.0018 U	< 0.0019 U
Alpha-BHC	0.020	0.02	< 0.0018 U	< 0.0019 U
Beta-BHC	0.036	0.09	< 0.0018 U	< 0.0019 U
alpha-Chlordane	0.094	2.90	< 0.0018 U	< 0.0019 U
Delta-BHC	0.040	0.25	< 0.0018 U	< 0.0019 U
Dibenzofuran	7.000	210.00	< 0.35 U	< 0.3600 U
Dieldrin	0.005	0.10	< 0.0035 U	< 0.0036 U
Endosulfan I	2.400	102.00	< 0.0018 U	< 0.0019 U
Endosulfan II	2.400	102.00	< 0.0035 U	< 0.3600 U
Endosulfan sulfate	2.400	200.00	< 0.0035 U	< 0.3600 U
Endrin	0.014	0.06	< 0.0035 U	< 0.3600 U
Heptachlor	0.042	0.38	< 0.0018 U	< 0.0019 U
gamma-BHC (Lindane)	0.100	0.10	< 0.0018 U	< 0.0019 U
Polychlorinated biphenyls	0.100	1.00		
Aroclor 1016			< 0.035 U	< 0.0036 U
Aroclor 1221			< 0.070 U	< 0.0074 U
Aroclor 1232			< 0.035 U	< 0.0036 U
Aroclor 1242			< 0.035 U	< 0.0036 U
Aroclor 1248			< 0.035 U	< 0.0036 U
Aroclor 1254			< 0.035 U	< 0.0036 U
Aroclor 1260			< 0.035 U	< 0.0036 U
Semivolatile Organic Compounds				
Acenaphthene	20.00	98	< 0.35 U	< 0.36 U
Acenaphthylene	100.00	107	< 0.35 U	< 0.36 U
Anthracene	100.00	500	< 0.35 U	< 0.36 U
Benzo(a)anthracene	1.00	1.0	< 0.35 U	< 0.36 U
Benzo(a)pyrene	1.00	1.0	< 0.35 U	< 0.36 U
Benzo(b)fluoranthene	1.00	1.7	< 0.35 U	< 0.36 U
Benzo(ghi)perylene	100.00	500	< 0.35 U	< 0.36 U
Benzo(k)fluoranthene	0.80	1.70	< 0.35 U	< 0.36 U
Chrysene	1.00	1.00	< 0.35 U	< 0.36 U
Dibenz(a,h)anthracene	0.33	0.56	< 0.35 U	< 0.25 U
Fluoranthene	100.00	500	< 0.35 U	< 0.36 U
Fluorene	30.00	386	< 0.35 U	< 0.36 U
Indeno(1,2,3-cd)pyrene	0.50	5.60	< 0.35 U	< 0.36 U
m-Cresol(s)	0.33	0.33	< U	
Naphthalene	12.00	12	< 0.35 U	< 0.36 U
o-Cresol(s)	0.33	0.33	< 0.24 U	< 0.25 U
p-Cresol(s)	0.33	0.33	< 0.24 U	< 0.25 U
Pentachlorophenol	0.80	0.80	< 0.66 U	< 0.69 U
Phenanthrene	100.00	500	< 0.35 U	< 0.36 U
Phenol	0.33	0.33	< 0.24 U	< 0.25 U
Pyrene	100.00	500	< 0.35 U	< 0.36 U
Volatile Organic Compounds				
1,1,1-Trichloroethane	0.68	0.68	< 0.011 U	< 0.011 U
1,1-Dichloroethane	0.27	0.27	< 0.011 U	< 0.011 U
1,1-Dichloroethene	0.33	0.33	< 0.011 U	< 0.011 U
1,2-Dichlorobenzene	1.10	1.10	< 0.011 U	< 0.011 U
1,2-Dichloroethane	0.02	0.02	< 0.011 U	< 0.011 U
1,2-Dichloroethene(cis)	0.25	0.25	< 0.011 U	< 0.011 U
1,2-Dichloroethene(trans)	0.19	0.19	< 0.011 U	< 0.011 U
1,3-Dichlorobenzene	2.40	2.40	< 0.011 U	< 0.011 U
1,4-Dichlorobenzene	1.80	1.80	< 0.011 U	< 0.011 U
1,4-Dioxane	0.10	0.10	< 0.26 U	< 0.280 U
Acetone	0.05	0.05	< 0.011 U	< 0.011 U
Benzene	0.06	0.06	< 0.011 U	< 0.011 U
Butylbenzene	12.00	12	< 0.011 U	< 0.011 U
Carbon tetrachloride	0.76	0.76	< 0.011 U	< 0.011 U
Chlorobenzene	1.10	1.10	< 0.011 U	< 0.011 U
Chloroform	0.37	0.37	< 0.011 U	< 0.011 U
Ethylbenzene	1.00	1.00	< 0.011 U	< 0.011 U
Hexachlorobenzene	0.33	3.20	< 0.350 U	< 0.360 U
Methyl ethyl ketone	0.12	0.12	< 0.011 U	< 0.011 U
Methyl tert-butyl ether	0.93	0.93	< 0.011 U	< 0.011 U
Methylene chloride	0.05	0.05	< 0.011 U	< 0.011 U
Propylbenzene-n	3.90	3.90	< 0.011 U	< 0.011 U
Sec-Butylbenzene	11.00	11	< 0.011 U	< 0.011 U
Tert-Butylbenzene	5.90	5.90	< 0.011 U	< 0.011 U
Tetrachloroethene	1.30	1.30	< 0.011 U	< 0.011 U
Toluene	0.70	0.70	< 0.011 U	< 0.011 U
Trichloroethene	0.47	0.47	< 0.011 U	< 0.011 U
Trimethylbenzene-1,2,4	3.60	3.60	< 0.011 U	< 0.011 U
Trimethylbenzene-1,3,5	8.40	8.40	< 0.011 U	< 0.011 U
Vinyl chloride	0.02	0.02	< 0.011 U	< 0.011 U
Xylene (mixed)	0.26	1.60	< 0.011 U	< 0.011 U

Notes:
< or U - The compound was not detected at the indicated concentration
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

c- calibration acceptablil
c - Calibration acceptability criteria exceeded for this analyte
s - Recovery exceeded control limits for this analyte
(1) Per DER-10, the SCO for Hexavalent or Trivalent Chromium is considered to be met if the analysis for the total species of this contaminant is below the specific SCO for Hexavalent Chromium.

SCO's for organic constituents (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

Figures



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National Grid
Equity Former MGP Site, Brooklyn NY
SHALLOW SOIL IRM - 254 Maspeth Ave

Data Source: USGS Topographic Quadrangle - Brooklyn, 2009

Scale:	Date:	Project Number:
1"=2000'	December 2013	60137362

Site Location Map

Figure 1-1

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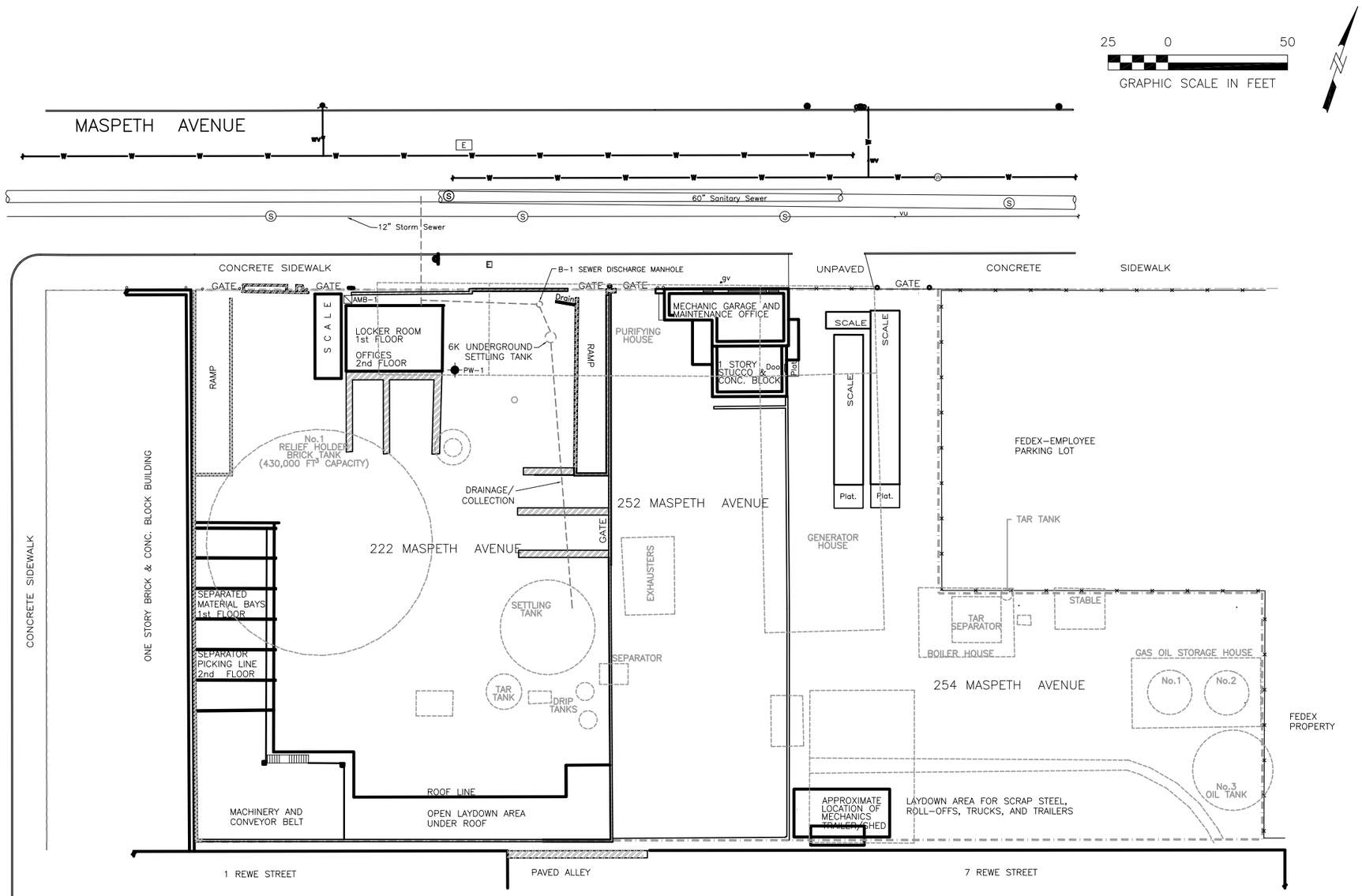


NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

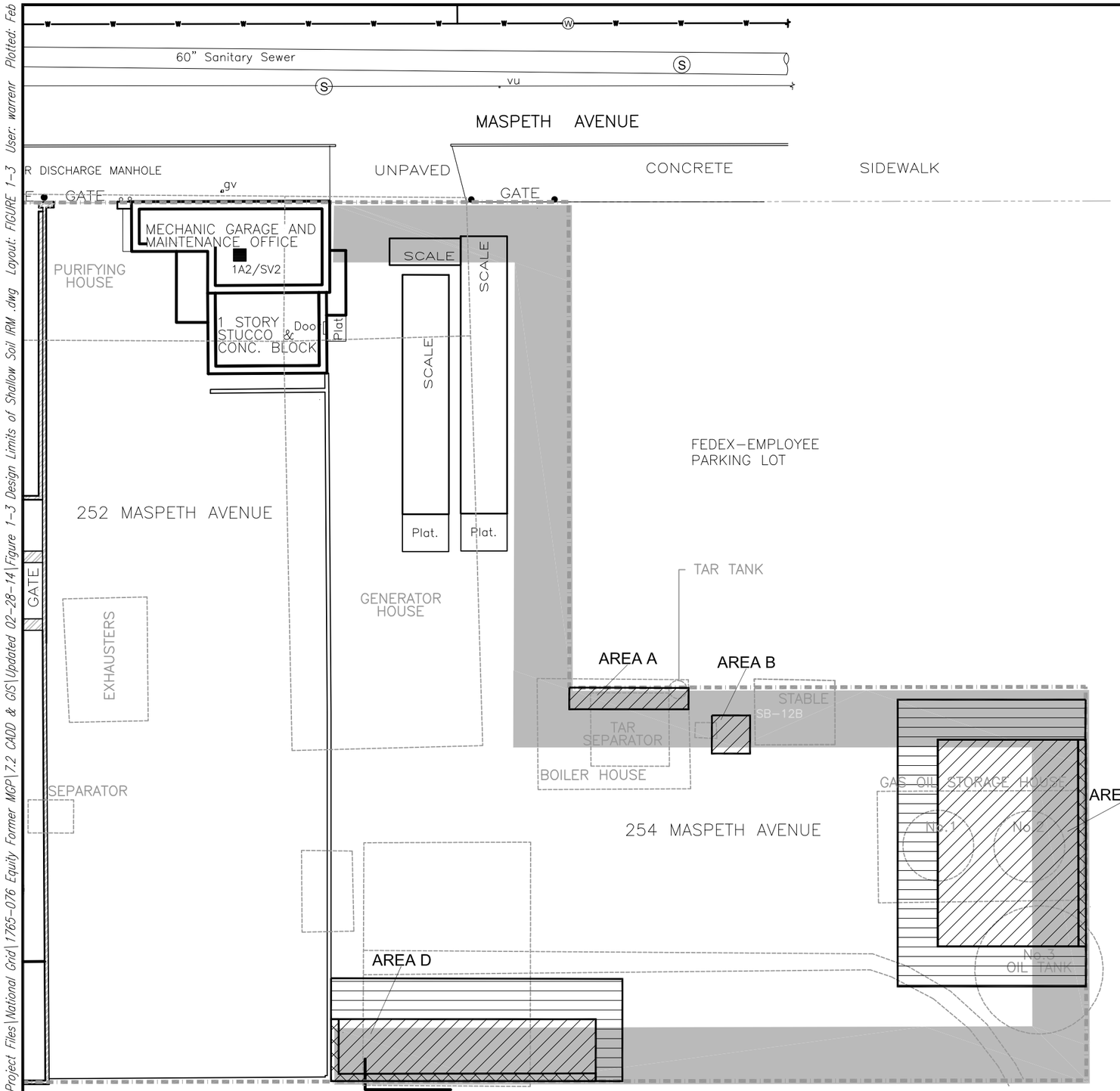
2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.

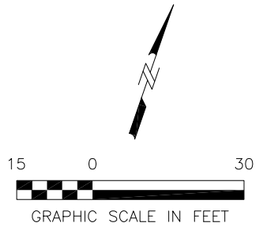
3.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS.
* LOCATIONS BASED ON FIELD TIE–INS BY AECOM.

AECOM

NATIONAL GRID EQUITY FORMER MGP SITE, BROOKLYN NY SHALLOW SOIL IRM - 254 MASPETH AVENUE			**PRE-SHALLOW SOIL IRM SITE LAYOUT**
DATE: 02/28/2014	DRWN: RCW	60137362	**FIGURE 1-2**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\Updated 02-28-14\Figure 1-2 Pre-Shallow Soil IRM Site Layout Map .dwg Layout: Figure -2 Site Layout User: warrenr P.





LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- E — UNDERGROUND ELECTRIC UTILITY VAULT
- S — 60" SEWER UTILITY WITH ACCESS WAY
- S — 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- AMB–1 — AMBIENT AIR
- 1A1/SV1 — INDOOR AIR/ SOIL VAPOR
- PW–1 — ON–SITE PUMPING WELL
- GW–1 — TEMPORARY MONITORING WELL
- HISTORIC STRUCTURE
- PROPOSED PERIMETER WALL FOOTPRINT
- EXCAVATION TO EXTEND TO THE GROUNDWATER SURFACE AND WITHIN THE PERIMETER WALL FOOTPRINT TO A MINIMUM DEPTH OF 5 FEET BELOW GROUND SURFACE
- APPROXIMATE LIMITS OF AREA TO BE EXCAVATED, AS SHORING SUPPORT, WITH A SLOPE OF 1H:1.5V OR AS APPROPRIATE
- AREA TO BE STRAIGHT–CUT EXCAVATED TO 5 FEET BELOW GROUND SURFACE THEN TO THE GROUNDWATER TABLE WITH A SLOPE OF 1H:1V

NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.

3.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS.
* LOCATIONS BASED ON FIELD TIE–INS BY AECOM.

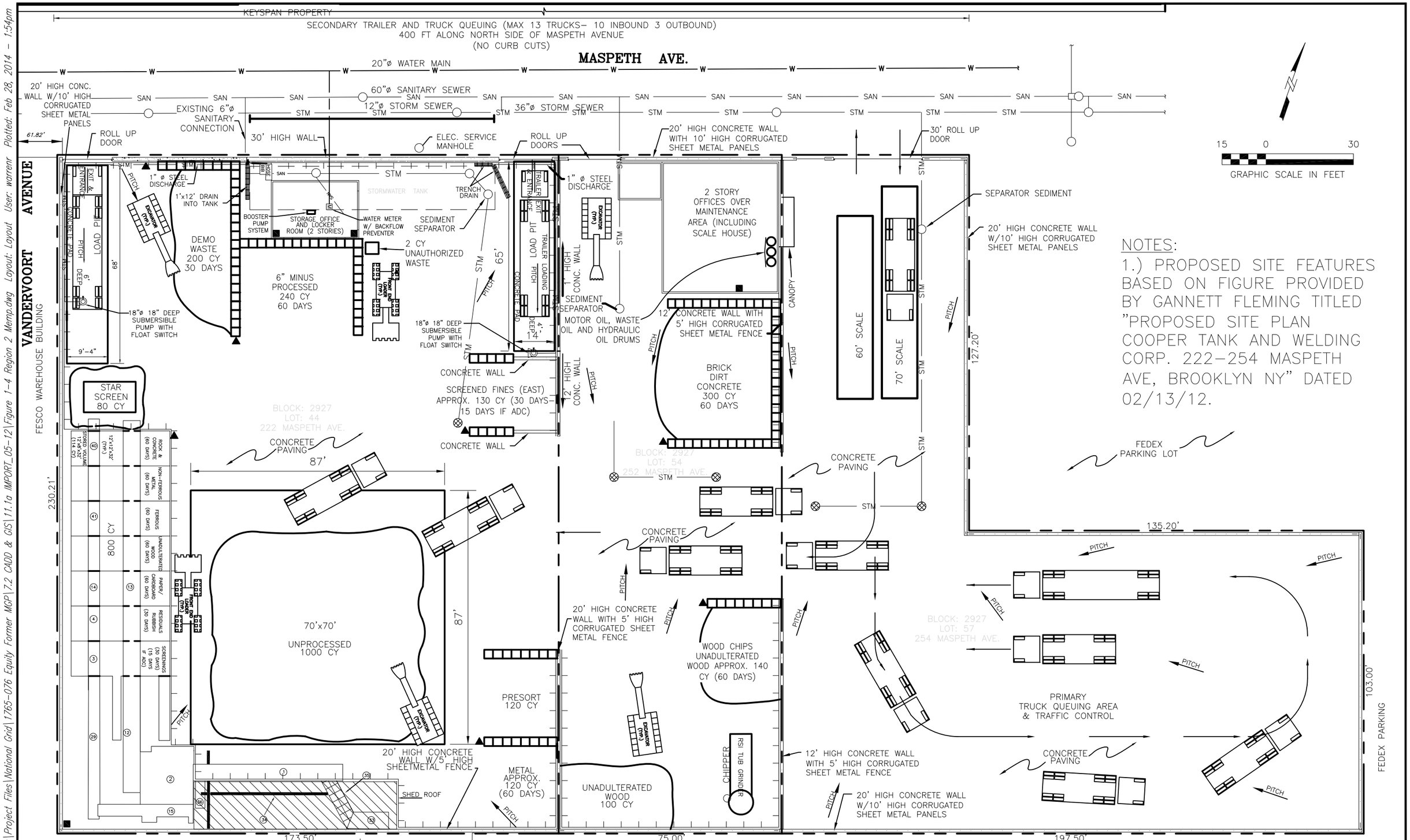
AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN NY
SHALLOW SOIL IRM - 254 MASPETH AVENUE

DESIGN LIMITS OF SHALLOW SOIL IRM

DATE: 02/28/2014	DRWN: RCW	60137362		**FIGURE 1-3**

File: J:\Rem_Eng\Project Files\National Grid\1765–076 Equity Former MGP\7.2 CADD & GIS\Updated 02–28–14\Figure 1–3 Design Limits of Shallow Soil IRM .dwg Layout: FIGURE 1–3 User: warrenr Plotted: Feb 28,



NOTES:

1.) PROPOSED SITE FEATURES BASED ON FIGURE PROVIDED BY GANNETT FLEMING TITLED "PROPOSED SITE PLAN COOPER TANK AND WELDING CORP. 222–254 MASPETH AVE, BROOKLYN NY" DATED 02/13/12.

AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN, NY
SHALLOW SOIL IRM - 254 MASPETH AVENUE

DATE: 02/28/2014 | DRWN: RCW | 60137362

PROPOSED REDEVELOPEMENT OF 254 MASPETH AVENUE

FIGURE 1-4

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\11.1a IMPORT_05-12\Figure 1-4 Region 2 Memp.dwg Layout: Layout User: warrenr Plotted: Feb 28, 2014 – 1:54pm Xre

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\Updated 02-28-14\Figure 2-1 Shallow Soil IRM As-built Excavation.dwg Layout: Layout2 User: warrenr Plotted: Feb 28, 2

MASPETH AVENUE

B-1 SEWER DISCHARGE MANHOLE

GATE GATE GATE

UNPAVED CONCRETE SIDEWALK

MECHANIC GARAGE AND MAINTENANCE OFFICE

1A2/SV2

PURIFYING HOUSE

1 STORY STUCCO & CONC. BLOCK

Doo

Plat

RAMP

SCALE SCALE SCALE

Plat. Plat.

252 MASPETH AVENUE

GATE

EXHAUSTERS

GENERATOR HOUSE

FEDEX-EMPLOYEE PARKING LOT

TAR TANK

AREA A
(7-8' BGS)

AREA B
(4.9-6.3' BGS)

STABLE

TAR SEPARATOR

BOILER HOUSE

GAS OIL STORAGE HOUSE

AREA C
(5.1-7.3' BGS)

No.1 No.2 No.3 OIL TANK

FEDEX PROPERTY

254 MASPETH AVENUE

TLING
NK

SEPARATOR

DRIP TANKS

AREA D
(7.9-8.3' BGS)

PAVED ALLEY

7 REWE STREET

LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- AS-BUILT EXCAVATION SURVEYED LIMITS PROVIDED BY PERFECT POINT SURVEYING

NOTES:

1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. ADDITIONAL DETAILS ARE PROVIDED IN THE TEST PIT LOGS AND HISTORIC DRAWINGS AND PHOTOS ATTACHED TO THE CONTRACT DOCUMENTS.

N

15 0 30

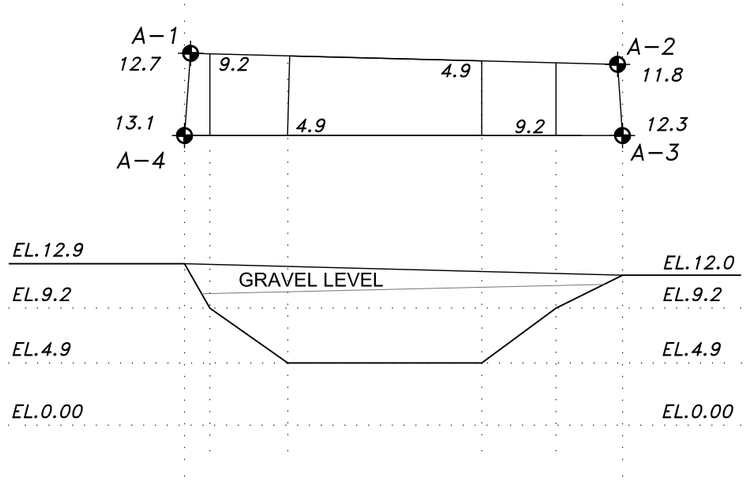
GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN NY
SHALLOW SOIL IRM - 254 MASPETH AVENUE

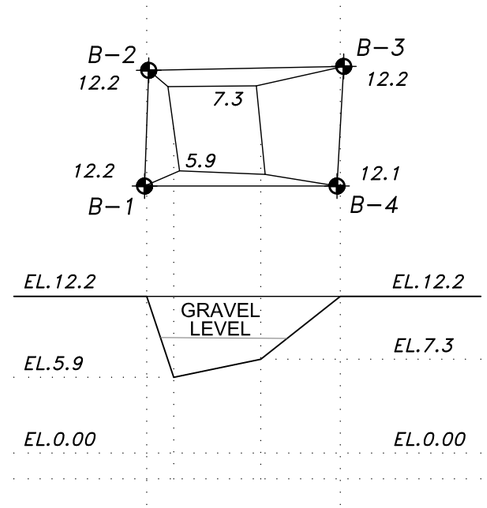
AS-BUILT EXCAVATION PLAN

DATE: 02/28/2014	DRWN: RCW	60137362		**FIGURE 2-1**



EXCAVATION "A"
VOLUME = ±37.4 cu.yd.

A / C-02 EXCAVATION AREA A
DETAIL PLAN & CROSS SECTION

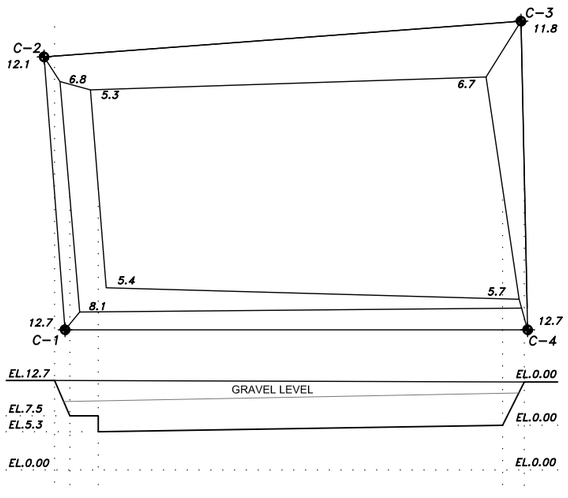


EXCAVATION "B"
VOLUME = ±20.4 cu.yd.

B / C-02 EXCAVATION AREA B
DETAIL PLAN & CROSS SECTION

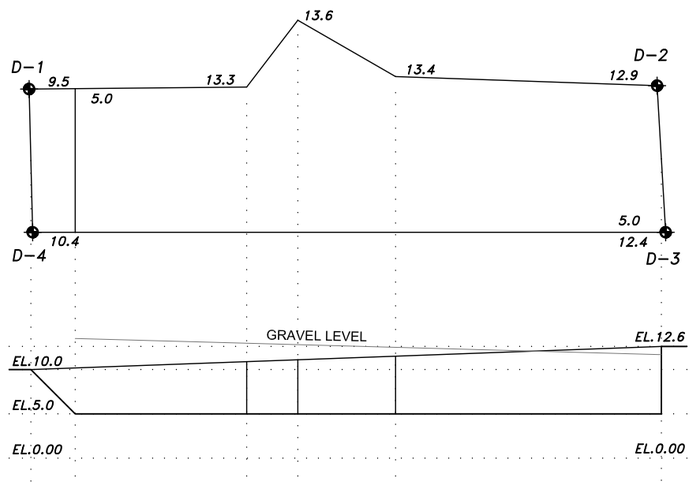
LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- C-1 EXCAVATION CONTROL POINT (EXCAVATION AREA DESIGNATION / EXCAVATION AREA CORNER NUMBER)
- MAXIMUM POTENTIAL EXTENT OF EXCAVATION SLOPING
- AS-BUILT EXCAVATION SURVEYED LIMITS PROVIDED BY PERFECT POINT SURVEYING



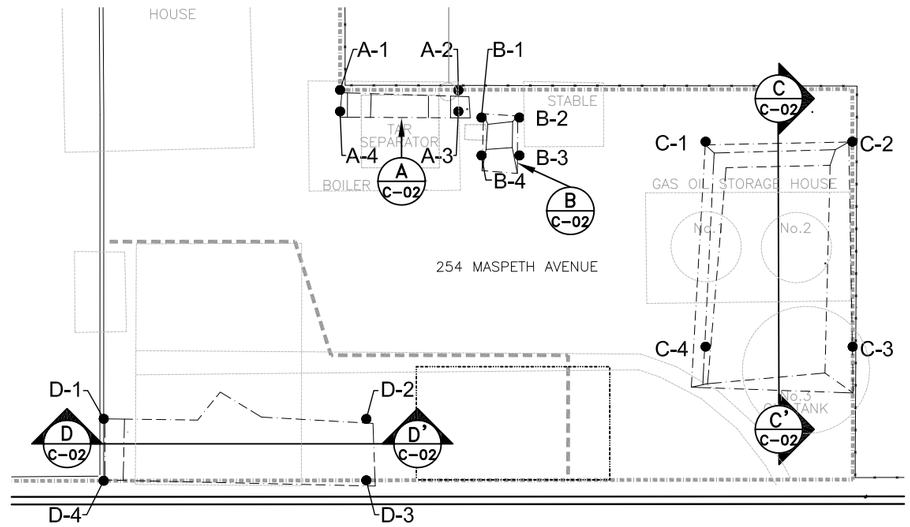
EXCAVATION "C"
VOLUME = ±432 cu.yd.

C / C-02 EXCAVATION AREA C
DETAIL PLAN & CROSS SECTION



EXCAVATION "D"
VOLUME = ±284.8 cu.yd.

D / C-02 EXCAVATION AREA D
DETAIL PLAN & CROSS SECTION



20 0 40
GRAPHIC SCALE IN FEET

NOTES:
1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. ADDITIONAL DETAILS ARE PROVIDED IN THE TEST PIT LOGS AND HISTORIC DRAWINGS AND PHOTOS ATTACHED TO THE CONTRACT DOCUMENTS.

AECOM

NATIONAL GRID EQUITY FORMER MGP SITE, BROOKLYN NY SHALLOW SOIL IRM - 254 MASPETH AVENUE			**AS-BUILT EXCAVATION PLAN AND CROSS SECTIONS**
DATE: 02/28/2014	DRWN: RCW	60137362	**FIGURE 2-2**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\Updated 02-28-14\Figure 2-2 Shallow Soil IRM As-Built Excavation Cross-Sections.dwg Layout: Layout1 User: warrenr Plo

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\Updated 02-28-14\Figure 2-3 Shallow Soil IRM As-built Final Restoration.dwg Layout: Layout2 User: warreor Plotted: Feb

MASPETH AVENUE

UNPAVED

CONCRETE SIDEWALK

B-1 SEWER DISCHARGE MANHOLE

GATE

GATE

GATE

gv

MECHANIC GARAGE AND MAINTENANCE OFFICE

1A2/SV2

1 STORY STUCCO & CONC. BLOCK

Doo

Plat

RAMP

SCALE

SCALE

SCALE

Plat.

Plat.

252 MASPETH AVENUE

GATE

FEDEX-EMPLOYEE PARKING LOT

AREA A

AREA B

AREA C

AREA D

254 MASPETH AVENUE

FEDEX PROPERTY

PAVED ALLEY

7 REWE STREET

LEGEND:

- SITE BOUNDARY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- WATER UTILITY WITH ACCESS WAY
- WATER UTILITY VALVE
- HYDRANT
- UNDERGROUND ELECTRIC UTILITY VAULT
- 60" SEWER UTILITY WITH ACCESS WAY
- 12" SEWER UTILITY WITH ACCESS WAY
- BOLLARDS
- ELECTRIC UTILITY POLE
- 13.71 ELEVATION POINT
- AS-BUILT EXCAVATION SURVEYED LIMITS PROVIDED BY PERFECT POINT SURVEYING
- TEMPORARY FENCE

NOTES:

1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. ADDITIONAL DETAILS ARE PROVIDED IN THE TEST PIT LOGS AND HISTORIC DRAWINGS AND PHOTOS ATTACHED TO THE CONTRACT DOCUMENTS.

N

15 0 30

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
EQUITY FORMER MGP SITE, BROOKLYN NY
SHALLOW SOIL IRM - 254 MASPETH AVENUE

AS-BUILT FINAL RESTORATION

DATE: 02/28/2014	DRWN: RCW	60137362	**FIGURE 2-3**

Appendix A

Shallow Soil IRM Photo Log



High visibility fencing & vibration monitoring location (09/12/2012)



IRM Activity equipment & Test foam application (09/12/2012)



Site clearing for IRM activities at Area C (09/13/2012)



Anemometer installed on corner fence post near Area A (09/13/2012)



Installation of Decontamination Pad (09/14/2012)



Filter fabric installed on surrounding fencing (09/24/2012)



IRM area A partially excavated (09/14/2012)



Loaded truck leaving site through decontamination pad (09/17/2012)



Loaded truck secured with poly (09/17/2012)



Tar from Area C with foam being applied (09/17/2012)



Truck being loaded from Area A (09/17/2012)



Excavation at Area B (09/18/2012)



Area C excavation foamed for the day (09/18/2012)



Excavation Area C with tar near monitoring wells (09/19/2012)



Tar present in East sidewall of Area C (09/20/2012)



Area C excavation in Southwest corner full of trash (09/21/2012)



Tar along sidewall of Rewe Street property in Area D excavation (09/25/2012)



Area A with demarcation layer and stone backfill (09/26/2012)



Area D demarcation layer installed, awaiting stone backfill (09/26/2012)



Area C backfilled with clean stone (09/27/2012)



Area D backfilled and fenced off for safety (09/27/2012)



Removed decontamination pad and re-graded area (09/27/2012)

Appendix B

CAMP Report

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Air Monitoring Summary

Client:	**National Grid**
Location:	**254 Maspeth Avenue, Brooklyn, NY** **Equity Former MGP Site**
Period:	**September 14th through September 19th, 2012**

During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits. This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Equity MGP IRM project CAMP (December 2011).

Introduction

Engineering controls, dust suppression, and odor suppression are used as necessary throughout the daily work activities. Community air monitoring data is reviewed and compared to the NYSDEC/NYSDOH Action Limits. In order to manage the Site more effectively National Grid has employed more conservative Alert and Response Limits to help mitigate fugitive emissions before the Action Limits are reached. The purpose of the Alert and Response limits are to help manage the Site and prevent concentrations above the Action Limits.

- **Table 1**: Site specific Alert, Response and Action Limits and the corresponding Site conditions.

Real-Time Air Monitoring Summary – TVOC and PM_{10}

Continuous real-time air monitoring for PM_{10} and TVOC was conducted upwind and downwind of the work area along the Site perimeter at two (2) PAM (portable air monitoring) stations. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10} and TVOCs. The real-time perimeter air monitoring system consists of an upwind and downwind monitoring station, supplemented by routine periodic/as-needed hand-held and observational air monitoring; one (1) meteorological tower.

During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits at the downwind location. PAM-1 was placed upwind of excavation and PAM-2 was placed at a downwind location. Hence, no exceedences were recorded at downwind location and the exceedence of PM_{10} at PAM-1 was attributed to an upwind off-site source. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} and TVOC concentrations and periodic hand-held naphthalene and HCN concentrations summary;
- **Table 3**: Concentrations above the Action Limits; and
- **Table 4**: Concentrations above the Response Limits.

Weekly Site Activities, Meteorological Observations, and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Table 5**: Weekly Site activities summary;
- **Table 6**: Weekly meteorological summaries; and
- **Figure 1:** Daily/weekly Site map.

Table 1: Site Specific Alert, Response, and Action Limits and the Corresponding Site Conditions

				Site Condition			
Target – units	**Alert Limit**	**Response Limit**	**Action Limit**	**Operational Condition**	**Alert Condition (Above Background[1])**	**Response Condition (Above Background[1])**	**Action Condition (Above Background[1])**
TVOC (PID) – ppm	3.7	5.0	25.0	$[C_{avg}] \leq 3.7$	$[C_{avg}] > 3.7$ and $[C_{avg}] \leq 5.0$	$[C_{avg}] > 5.0$ and $[C_{avg}] \leq 25.0$	$[C_{avg}] > 25.0$
Benzene (GC) – ppm	NA	NA	1.0	$[C_{avg}] \leq 1.0$	NA	NA	$[C_{avg}] > 1.0$
PM_{10} – $\mu g/m^3$	NA	100	150	$[C_{avg}] \leq 100$	NA	$[C_{avg}] > 100$ and $[C_{avg}] \leq 150$	$[C_{avg}] > 150$

Definitions:

TVOC = Total Volatile Organic Compounds
PID = Photoionization Detector
GC = Gas Chromatograph
PM_{10} = Respirable Particulate Matter
ppm = Parts per million volume
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration of target
DT = Dräger Tubes
NA = Not applicable, odor intensity will be either an Operational Level or Action Level; there is no Alert and/or Response Limit and there is no Alert Limit for PM_{10}.

Notes:

[1] Background is defined as the current upwind concentration. Background concentrations will be used to calculate the actual Property contributions to TVOCs and PM_{10} during the final evaluation of the Site conditions shown in **Table 3** and **4**.

Table 2: Weekly Real-Time Maximum PM_{10} and TVOC Concentration Summary

	PAM-1		PAM-2	
	PM_{10} µg/m^3	**TVOC ppm**	**PM_{10} µg/m^3**	**TVOC ppm**
Maximum 15-Minute Average Concentrations (Action Limits: PM_{10} = 150 ug/m^3 / TVOC = 25 ppm /Response Limits: PM_{10} = 100 ug/m^3 / TVOC = 5.0 ppm)				
Friday 9/14/12	8.8	0.1	5.8	0.1
Saturday 9/15/12	X	X	X	X
Sunday 9/16/12	X	X	X	X
Monday 9/17/12	22.6	0	5.6	0
Tuesday 9/18/12	5.8	0.1	2	0
Wednesday 9/19/12	635	0	86	0

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter (µg/m^3)
TVOC = Total Volatile Organic Compounds (ppm)
X = Monitoring not required per Site specific CAMP
ND = No Data
TBD = To Be Determined
PAM-1 = Upwind Monitoring Station
PAM-2 = Downwind Monitoring Station

- Highlighted concentrations remained above the Response or Action Limits after being corrected for the background concentrations and were subject to further analysis based onsite activities and offsite activities (shown in the following tables if applicable).
- PAM stations collect average 15-minute PM_{10} and TVOC concentrations updated every one minute during periods of Site activities (estimated to be Monday – Friday between 7AM and 3PM).

Table 3: Concentrations Above the Action Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

Table 4: Concentrations Above the Response Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Response Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

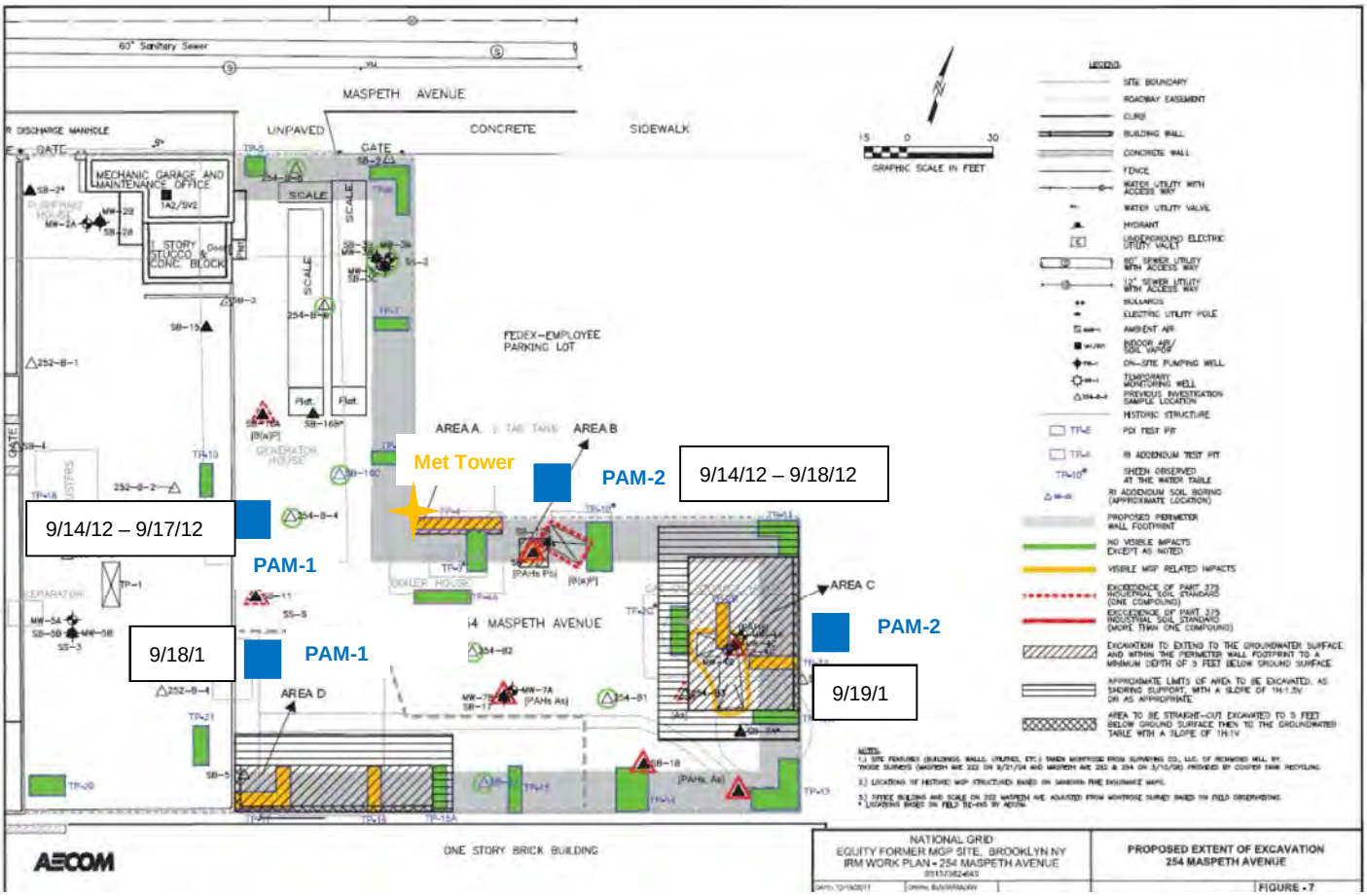
Table 5: Weekly Site Activities

	Site Activities
Friday 9/14/12	•Excavated and stock piled soil •Routine air monitoring.
Saturday 9/15/12	•No Site activities; and •No routine air monitoring
Sunday 9/16/12	•No Site activities; and •No routine air monitoring
Monday 9/17/12	•Began disposal and load out of soil (10 trucks); •Continued excavation and stock piling soil ; and •Routine air monitoring.
Tuesday 9/18/12	•Began disposal and load out of soil (3 trucks); •Continued excavation and stock piling soil ; and •Routine air monitoring.
Wednesday 9/19/12	•Began disposal and load out of soil (7 trucks); •Continued excavation and stock piling soil ; and •Routine air monitoring.

Table 6: Weekly Meteorological Summaries

Please see Attachment A for the raw Meteorological Data.	

Figure 1: Site Map



Legend

- PAM – Portable Air Monitoring Station
- Met – Meteorological Tower

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Weekly Air Monitoring Summary

Client:	**National Grid**
Location:	**254 Maspeth Avenue, Brooklyn, NY** **Equity Former MGP Site**
Period:	**September 20th through September 25th, 2012**

During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits. This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Equity MGP IRM project CAMP (December 2011).

Introduction

Engineering controls, dust suppression, and odor suppression are used as necessary throughout the daily work activities. Community air monitoring data is reviewed and compared to the NYSDEC/NYSDOH Action Limits. In order to manage the Site more effectively National Grid has employed more conservative Alert and Response Limits to help mitigate fugitive emissions before the Action Limits are reached. The purpose of the Alert and Response limits are to help manage the Site and prevent concentrations above the Action Limits.

- **Table 1**: Site specific Alert, Response and Action Limits and the corresponding Site conditions.

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During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits at the downwind location. PAM-1 was placed upwind of excavation and PAM-2 was placed at a downwind location. Hence, no exceedences were recorded at downwind location and the exceedence of PM_{10} at PAM-1 was attributed to an upwind off-site source. The results of the real-time air monitoring are presented in the following tables:

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- **Table 4**: Concentrations above the Response Limits.

Weekly Site Activities, Meteorological Observations, and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Table 5**: Weekly Site activities summary;
- **Table 6**: Weekly meteorological summaries; and
- **Figure 1:** Daily/weekly Site map.

Table 1: Site Specific Alert, Response, and Action Limits and the Corresponding Site Conditions

				Site Condition			
Target – units	**Alert Limit**	**Response Limit**	**Action Limit**	**Operational Condition**	**Alert Condition (Above Background[1])**	**Response Condition (Above Background[1])**	**Action Condition (Above Background[1])**
TVOC (PID) – ppm	3.7	5.0	25.0	$[C_{avg}] \leq 3.7$	$[C_{avg}] > 3.7$ and $[C_{avg}] \leq 5.0$	$[C_{avg}] > 5.0$ and $[C_{avg}] \leq 25.0$	$[C_{avg}] > 25.0$
Benzene (GC) – ppm	NA	NA	1.0	$[C_{avg}] \leq 1.0$	NA	NA	$[C_{avg}] > 1.0$
PM_{10} – $\mu g/m^3$	NA	100	150	$[C_{avg}] \leq 100$	NA	$[C_{avg}] > 100$ and $[C_{avg}] \leq 150$	$[C_{avg}] > 150$

Definitions:

TVOC = Total Volatile Organic Compounds
PID = Photoionization Detector
GC = Gas Chromatograph
PM_{10} = Respirable Particulate Matter
ppm = Parts per million volume
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration of target
DT = Dräger Tubes
NA = Not applicable, odor intensity will be either an Operational Level or Action Level; there is no Alert and/or Response Limit and there is no Alert Limit for PM_{10}.

Notes:

[1] Background is defined as the current upwind concentration. Background concentrations will be used to calculate the actual Property contributions to TVOCs and PM_{10} during the final evaluation of the Site conditions shown in **Table 3** and **4**.

Table 2: Weekly Real-Time Maximum PM_{10} and TVOC Concentration Summary

	PAM-1		PAM-2	
	PM_{10} µg/m^3	**TVOC ppm**	**PM_{10} µg/m^3**	**TVOC ppm**
Maximum 15-Minute Average Concentrations (Action Limits: PM_{10} = 150 ug/m^3 / TVOC = 25 ppm /Response Limits: PM_{10} = 100 ug/m^3 / TVOC = 5.0 ppm)				
Thursday 9/20/12	15.7	0	11.0	0
Friday 9/21/12	53.0	0	32.9	0
Saturday 9/22/12	X	X	X	X
Sunday 9/23/12	X	X	X	X
Monday 9/24/12	100.2	0.1	10.9	0
Tuesday 9/25/12	142	0.5	18.1	0.1

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter (µg/m^3)
TVOC = Total Volatile Organic Compounds (ppm)
X = Monitoring not required per Site specific CAMP
ND = No Data
TBD = To Be Determined
PAM-1 = Upwind Monitoring Station
PAM-2 = Downwind Monitoring Station

- Highlighted concentrations remained above the Response or Action Limits after being corrected for the background concentrations and were subject to further analysis based onsite activities and offsite activities (shown in the following tables if applicable).
- PAM stations collect average 15-minute PM_{10} and TVOC concentrations updated every one minute during periods of Site activities (estimated to be Monday – Friday between 7AM and 3PM).

Table 3: Concentrations Above the Action Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

Table 4: Concentrations Above the Response Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Response Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

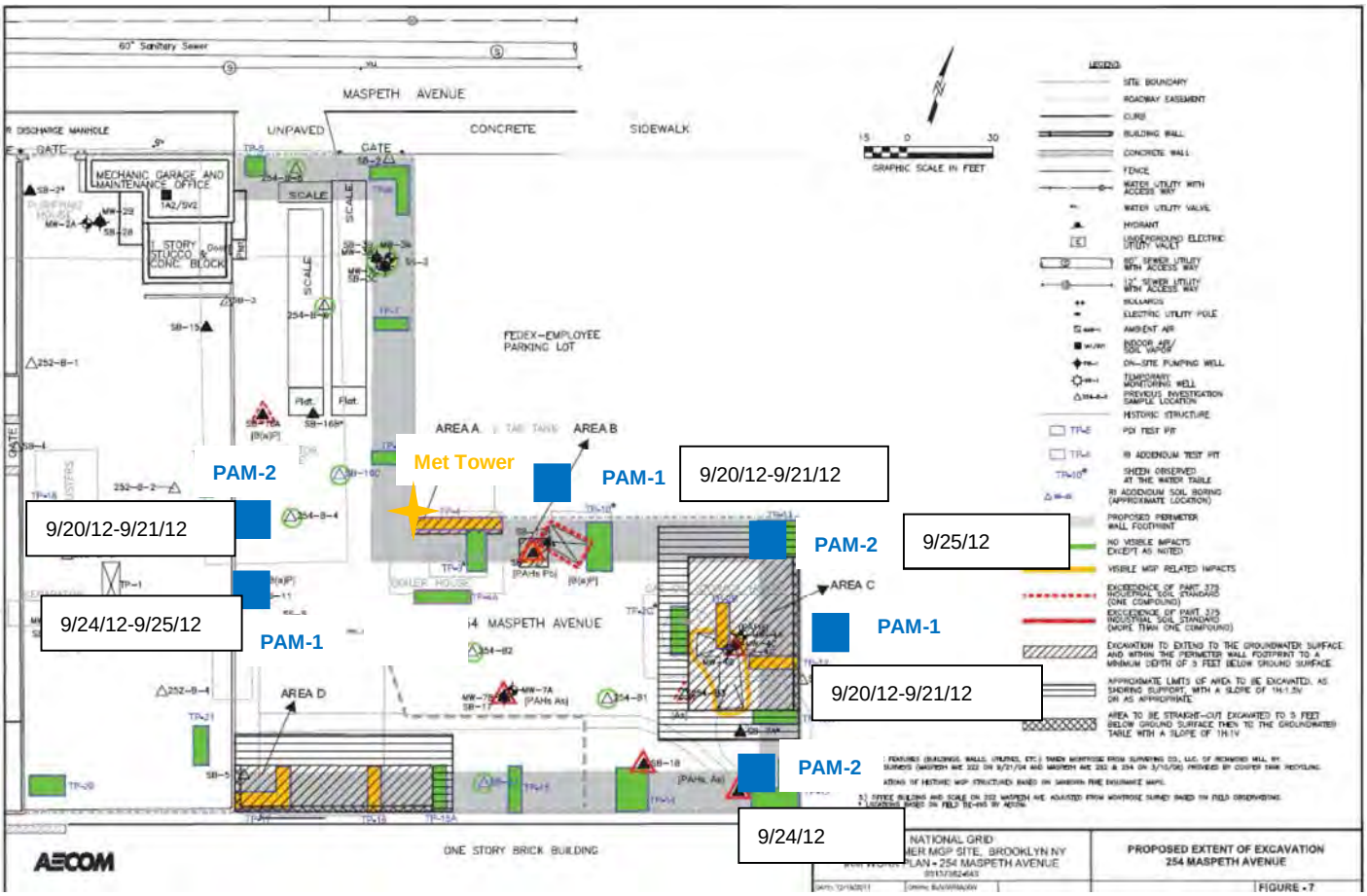
Table 5: Weekly Site Activities

	Site Activities
Thursday 9/20/12	•Excavated, disposal and load out of soil (10 trucks) •Routine air monitoring.
Friday 9/21/12	•Excavated, disposal and load out of soil (12 trucks) •Routine air monitoring.
Saturday 9/22/12	•No Site activities; and •No routine air monitoring
Sunday 9/23/12	•No Site activities; and •No routine air monitoring
Monday 9/24/12	•Continued excavating, disposal and load out of soil (12 trucks) •Routine air monitoring.
Tuesday 9/25/12	•Continued excavating, disposal and load out of soil (9 trucks) •Routine air monitoring.

Table 6: Weekly Meteorological Summaries

Meteorological data was recorded and documented daily. Due to high winds, the instrument did not keep a constant log of wind speed and direction. When a malfunction was detected, the device was corrected so logging could continue. Please see Attachment A for the raw Meteorological Data.

Figure 1: Site Map



Legend

- PAM – Portable Air Monitoring Station
- Met – Meteorological Tower

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AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
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Weekly Air Monitoring Summary

Client:	**National Grid**
Location:	**254 Maspeth Avenue, Brooklyn, NY** **Equity Former MGP Site**
Period:	**September 26th through September 28th, 2012**

During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits. This data summary report includes both tabular information and written discussions summarizing the ambient air-quality data collected during the report period in accordance with the Equity MGP IRM project CAMP (December 2011).

Introduction

Engineering controls, dust suppression, and odor suppression are used as necessary throughout the daily work activities. Community air monitoring data is reviewed and compared to the NYSDEC/NYSDOH Action Limits. In order to manage the Site more effectively National Grid has employed more conservative Alert and Response Limits to help mitigate fugitive emissions before the Action Limits are reached. The purpose of the Alert and Response limits are to help manage the Site and prevent concentrations above the Action Limits.

- **Table 1**: Site specific Alert, Response and Action Limits and the corresponding Site conditions.

Real-Time Air Monitoring Summary – TVOC and PM_{10}

Continuous real-time air monitoring for PM_{10} and TVOC was conducted upwind and downwind of the work area along the Site perimeter at two (2) PAM (portable air monitoring) stations. The intent of the real-time air monitoring program is to provide an early detection of short-term emissions and potential off Site migration of remediation related PM_{10} and TVOCs. The real-time perimeter air monitoring system consists of an upwind and downwind monitoring station, supplemented by routine periodic/as-needed hand-held and observational air monitoring; one (1) meteorological tower.

During the report period there were no TVOC or PM_{10} concentrations greater than the Action and Response Limits at the downwind location. PAM-1 was placed upwind of excavation and PAM-2 was placed at a downwind location. Hence, no exceedences were recorded at downwind location and the exceedence of PM_{10} at PAM-1 was attributed to an upwind off-site source. The results of the real-time air monitoring are presented in the following tables:

- **Table 2**: Weekly real-time maximum PM_{10} and TVOC concentrations and periodic hand-held naphthalene and HCN concentrations summary;
- **Table 3**: Concentrations above the Action Limits; and
- **Table 4**: Concentrations above the Response Limits.

Weekly Site Activities, Meteorological Observations, and Site Maps

Additional information related to the air monitoring activities during the report period is included in the following table and figures:

- **Table 5**: Weekly Site activities summary;
- **Table 6**: Weekly meteorological summaries; and
- **Figure 1:** Daily/weekly Site map.

Table 1: Site Specific Alert, Response, and Action Limits and the Corresponding Site Conditions

				Site Condition			
Target – units	**Alert Limit**	**Response Limit**	**Action Limit**	**Operational Condition**	**Alert Condition (Above Background[1])**	**Response Condition (Above Background[1])**	**Action Condition (Above Background[1])**
TVOC (PID) – ppm	3.7	5.0	25.0	$[C_{avg}] \leq 3.7$	$[C_{avg}] > 3.7$ and $[C_{avg}] \leq 5.0$	$[C_{avg}] > 5.0$ and $[C_{avg}] \leq 25.0$	$[C_{avg}] > 25.0$
Benzene (GC) – ppm	NA	NA	1.0	$[C_{avg}] \leq 1.0$	NA	NA	$[C_{avg}] > 1.0$
PM_{10} – $\mu g/m^3$	NA	100	150	$[C_{avg}] \leq 100$	NA	$[C_{avg}] > 100$ and $[C_{avg}] \leq 150$	$[C_{avg}] > 150$

Definitions:

TVOC = Total Volatile Organic Compounds
PID = Photoionization Detector
GC = Gas Chromatograph
PM_{10} = Respirable Particulate Matter
ppm = Parts per million volume
$\mu g/m^3$ = Micrograms per cubic meter
$[C_{avg}]$ = 15-minute average concentration of target
DT = Dräger Tubes
NA = Not applicable, odor intensity will be either an Operational Level or Action Level; there is no Alert and/or Response Limit and there is no Alert Limit for PM_{10}.

Notes:

[1] Background is defined as the current upwind concentration. Background concentrations will be used to calculate the actual Property contributions to TVOCs and PM_{10} during the final evaluation of the Site conditions shown in **Table 3** and **4**.

Table 2: Weekly Real-Time Maximum PM_{10} and TVOC Concentration Summary

	PAM-1		PAM-2	
	PM_{10} µg/m^3	**TVOC ppm**	**PM_{10} µg/m^3**	**TVOC ppm**
Maximum 15-Minute Average Concentrations (Action Limits: PM_{10} = 150 ug/m^3 / TVOC = 25 ppm /Response Limits: PM_{10} = 100 ug/m^3 / TVOC = 5.0 ppm)				
Wednesday 9/26/12	75	0	18	0.1
Thursday 9/27/12	244	0.1	34	0.3
Friday 9/28/12	71	0	20	0

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter (µg/m^3)
TVOC = Total Volatile Organic Compounds (ppm)
X = Monitoring not required per Site specific CAMP
ND = No Data
TBD = To Be Determined
PAM-1 = Upwind Monitoring Station
PAM-2 = Downwind Monitoring Station

- Highlighted concentrations remained above the Response or Action Limits after being corrected for the background concentrations and were subject to further analysis based onsite activities and offsite activities (shown in the following tables if applicable).
- PAM stations collect average 15-minute PM_{10} and TVOC concentrations updated every one minute during periods of Site activities (estimated to be Monday – Friday between 7AM and 3PM).

Table 3: Concentrations Above the Action Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Action Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

Table 4: Concentrations Above the Response Limits

Parameter	Date	Station	Start Time	End Time	Duration (Mins)	Response Limit	Wind Conditions Start	Wind Conditions End	Location of Background Conc.	Max Elevated Conc.	Background Conc.	Max Conc. – Background Conc.	Site Condition	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PAM = Portable Air Monitoring Station
PM_{10} = Respirable Particulate Matter ($\mu g/m^3$)
TVOC = Total Volatile Organic Compounds (ppm)
VAR = Variable winds (wind direction changed more than 180 degrees between consecutive measurements and/or wind speeds less than 3.0 mph)
NA = Not Applicable
ND = No Data

- Background concentrations are determined using the current upwind concentrations unless winds are determined to be variable.

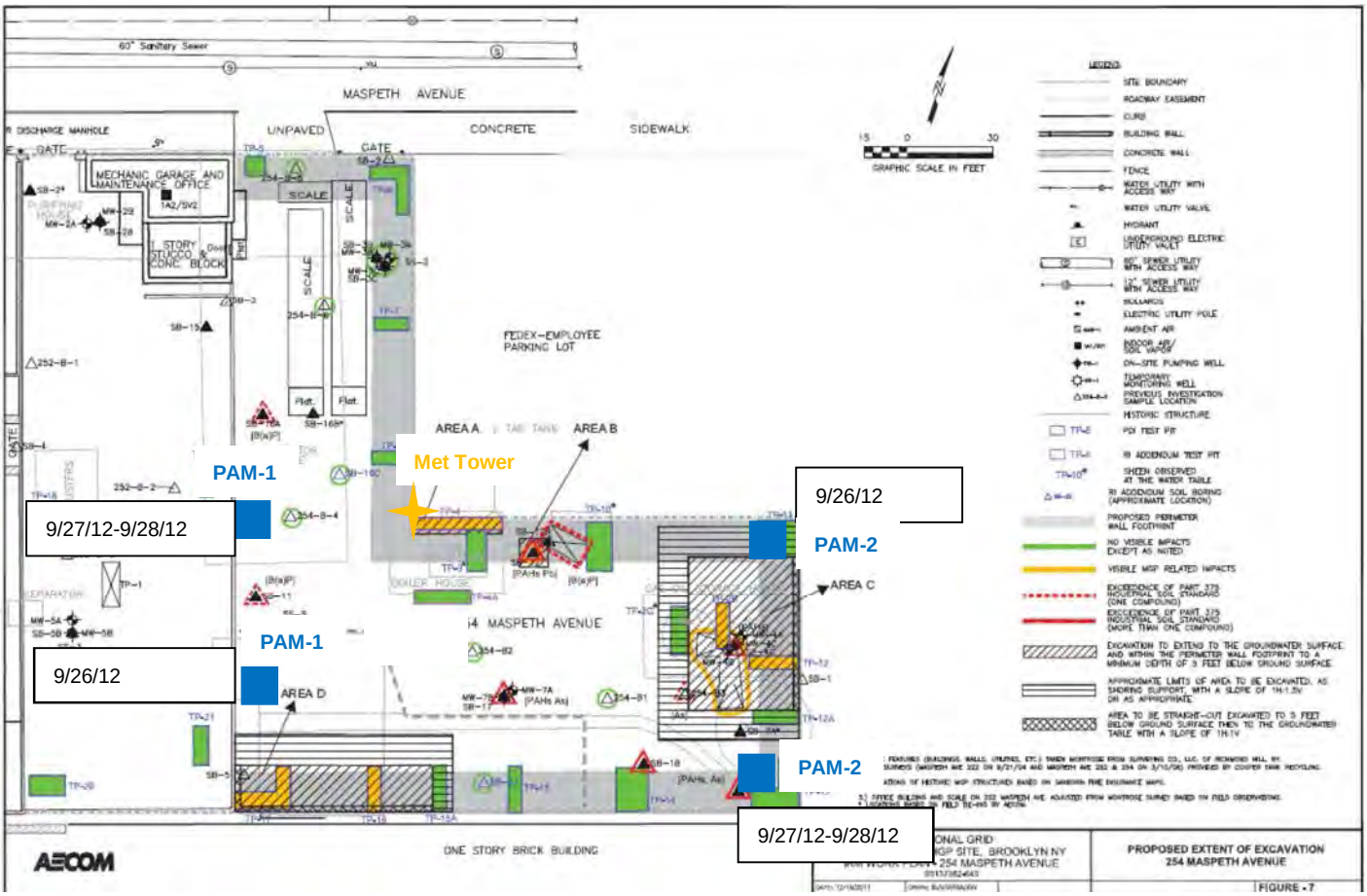
Table 5: Weekly Site Activities

	Site Activities
Wednesday 9/26/12	•Excavated, disposal and load out of soil (1 truck) •Backfill offloaded onsite in excavation areas (5 loads) •Routine air monitoring.
Thursday 9/27/12	•Excavated, disposal and load out of soil (1 truck) •Backfill offloaded onsite in excavation areas (15 loads) •Routine air monitoring. •End of day: Meteorological station taken down
Friday 9/28/12	•Demobilization Site activities; and •Routine air monitoring for morning hours

Table 6: Weekly Meteorological Summaries

Meteorological data was recorded and documented daily.	Please see Attachment A for the raw Meteorological Data.

Figure 1: Site Map



Legend

- PAM – Portable Air Monitoring Station
- Met – Meteorological Tower

Attachment A

Meteorological Data
Equity IRM

Date	Time	Temp Out	Hi Temp	Low Temp	Out Hum	Dew Pt.	Wind Speed	Wind Dir	Wind Run	Hi Speed	Hi Dir	Wind Chill	Heat Index	THW Index	Bar	Rain	Rain Rate	Heat D-D	Cool D-D	In Temp	In Hum	In Dew	In Heat	In EMC	In Air Density	Wind Samp	Wind Tx	ISS Recept	Arc. Int.
9/18/2012	7:20 PM	75	75	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:21 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:22 PM	75.1	75.1	75.1	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:23 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.652	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	22	1	95.7	1
9/18/2012	7:24 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.655	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:25 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:26 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:27 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.65	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:28 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.652	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:29 PM	75.1	75.1	75.1	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:30 PM	75	75.1	75	85	70.2	0	---	0	0	---	75	78	78	29.654	0.01	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	22	1	95.7	1
9/18/2012	7:31 PM	74.9	75	74.9	85	70.1	0	---	0	0	---	74.9	77.8	77.8	29.655	0.01	0.57	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:32 PM	74.7	74.8	74.7	86	70.2	0	---	0	0	---	74.7	77.5	77.5	29.655	0	0.4	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:33 PM	74.6	74.7	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.662	0.03	2.27	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:34 PM	74.4	74.6	74.4	88	70.6	0	---	0	0	---	74.4	77.1	77.1	29.666	0.03	2.27	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:35 PM	74.3	74.4	74.3	88	70.5	0	---	0	0	---	74.3	76.9	76.9	29.666	0.01	1.64	0	0.006	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:36 PM	74.2	74.2	74.2	89	70.7	0	---	0	0	---	74.2	76.8	76.8	29.663	0.01	0.92	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:37 PM	74.1	74.1	74.1	89	70.6	0	---	0	0	---	74.1	76.6	76.6	29.664	0.01	0.91	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:38 PM	74.1	74.1	74	89	70.6	0	---	0	0	---	74.1	76.6	76.6	29.667	0	0.28	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:39 PM	74.2	74.2	74.1	89	70.7	0	---	0	0	---	74.2	76.8	76.8	29.669	0	0.19	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:40 PM	74.2	74.2	74.1	88	70.4	0	---	0	0	---	74.2	76.7	76.7	29.669	0	0.14	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:41 PM	74.3	74.3	74.3	88	70.5	0	---	0	0	---	74.3	76.9	76.9	29.663	0	0.12	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:42 PM	74.4	74.4	74.4	87	70.3	0	---	0	0	---	74.4	77	77	29.664	0	0.1	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:43 PM	74.4	74.5	74.4	87	70.3	0	---	0	0	---	74.4	77	77	29.661	0	0.08	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:44 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.654	0	0.07	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:45 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.658	0	0.07	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	24	1	100	1
9/18/2012	7:46 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.66	0	0.06	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:47 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.667	0	0.05	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:48 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.681	0	0.05	0	0.007	72.6	67	61	73.3	12.3	0.0726	24	1	100	1
9/18/2012	7:49 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.692	0	0.05	0	0.007	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:50 PM	74.6	74.6	74.6	86	70.1	0	---	0	0	---	74.6	77.3	77.3	29.697	0	0.04	0	0.007	72.6	67	61	73.3	12.3	0.0727	24	1	100	1
9/18/2012	7:51 PM	74.3	74.5	74.3	86	69.8	0	---	0	0	---	74.3	76.8	76.8	29.692	0.01	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:52 PM	74	74.3	74	85	69.2	0	---	0	0	---	74	76.2	76.2	29.691	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	24	1	100	1
9/18/2012	7:53 PM	73.7	73.9	73.7	85	68.9	0	---	0	0	---	73.7	75.9	75.9	29.688	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:54 PM	73.4	73.7	73.4	86	69	0	---	0	0	---	73.4	75.6	75.6	29.686	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:55 PM	73.2	73.4	73.2	86	68.8	0	---	0	0	---	73.2	75.4	75.4	29.683	0	0.04	0	0.006	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	7:56 PM	73	73.1	73	86	68.6	0	---	0	0	---	73	75.2	75.2	29.684	0	0.04	0	0.006	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	7:57 PM	72.8	73	72.8	86	68.4	0	---	0	0	---	72.8	74.9	74.9	29.681	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	7:58 PM	72.8	72.8	72.7	86	68.4	0	---	0	0	---	72.8	74.9	74.9	29.682	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	7:59 PM	72.7	72.7	72.7	87	68.6	0	---	0	0	---	72.7	74.9	74.9	29.691	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	8:00 PM	72.7	72.7	72.7	87	68.6	0	---	0	0	---	72.7	74.9	74.9	29.696	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	8:01 PM	72.6	72.7	72.6	87	68.5	0	---	0	0	---	72.6	74.7	74.7	29.7	0.03	0.06	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:02 PM	72.4	72.6	72.4	88	68.6	0	---	0	0	---	72.4	74.6	74.6	29.698	0.06	5.82	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	24	1	100	1
9/18/2012	8:03 PM	72.1	72.4	72.1	88	68.3	0	---	0	0	---	72.1	74.2	74.2	29.7	0.08	6	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:04 PM	71.8	72.1	71.8	88	68.1	0	---	0	0	---	71.8	73.8	73.8	29.698	0.07	6.55	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:05 PM	71.5	71.8	71.5	89	68.1	0	---	0	0	---	71.5	73.6	73.6	29.708	0.03	4.14	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:06 PM	71.2	71.4	71.2	90	68.1	0	---	0	0	---	71.2	73.4	73.4	29.713	0.04	2.54	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	22	1	95.7	1
9/18/2012	8:07 PM	71	71.2	71	90	67.9	0	---	0	0	---	71	73.2	73.2	29.712	0.05	3.35	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	23	1	100	1
9/18/2012	8:08 PM	70.7	70.9	70.7	90	67.6	0	---	0	0	---	70.7	72.8	72.8	29.704	0.06	5.49	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	23	1	100	1
9/18/2012	8:09 PM	70.5	70.7	70.5	90	67.4	0	---	0	0	---	70.5	72.6	72.6	29.698	0.05	3.97	0	0.004	72.1	67	60.5	72.6	12.31	0.0727	23	1	100	1
9/18/2012	8:10 PM	70.3	70.4	70.3	91	67.5	0	---	0	0	---	70.3	72.5	72.5	29.696	0.02	3.35	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	23	1	100	1
9/18/2012	8:11 PM	70.2	70.3	70.2	91	67.4	0	---	0	0	---	70.2	72.3	72.3	29.693	0.01	1.48	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	22	1	95.7	1
9/18/2012	8:12 PM	70.1	70.2	70.1	91	67.3	0	---	0	0	---	70.1	72.2	72.2	29.692	0.01	0.68	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	24	1	100	1
9/18/2012	8:13 PM	70.1	70.1	70.1	91	67.3	0	---	0	0	---	70.1	72.2	72.2	29.69	0	0.41	0	0.004	71.8	67	60.2	72.2	12.31	0.0728	22	1	95.7	1
9/18/2012	8:14 PM	70	70.1	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.692	0	0.26	0	0.003	71.8	67	60.2	72.2	12.31	0.0728	23	1	100	1
9/18/2012	8:15 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.693	0	0.18	0	0.003	71.8	67	60.2	72.2	12.31	0.0728	23	1	100	1
9/18/2012	8:16 PM	69.9	70	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.696	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	22	1	95.7	1
9/18/2012	8:17 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.697	0.01	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	24	1	100	1
9/18/2012	8:18 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.698	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	22	1	95.7	1
9/18/2012	8:19 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.696	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	24	1	100	1
9/18/2012	8:20 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.697	0.01	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	23	1	100	1
9/18/2012	8:21 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.701	0	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	24	1	100	1
9/18/2012	8:22 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.701	0	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	23	1	100	1
9/18/2012	8:23 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.7	0	0.16	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	23	1	100	1
9/18/2012	8:24 PM	69.9	69.9	69.8	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.699	0	0.12	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	24	1	100	1
9/18/2012	8:25 PM	69.9	69.9	69.8	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.702	0	0.1	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	23	1	100	1
9/18/2012	8:26 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.707	0.01	0.1	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	24	1	100	1
9/18/2012	8:27 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.707	0	0.1	0	0.003	71.1	67	59.6	71.2	12.33	0.073	23	1	100	1
9/18/2012	8:28 PM	69.9	69.9	69.9	93	67.8	0	---	0	0	---	69.9	72.2	72.2	29.708	0	0.1	0	0.003	71.1	67	59.6	71.2	12.33	0.073	23	1	100	1
9/18/2012	8:29 PM	70	70	69.9	93	67.9	0	---	0	0	---	70	72.3	72.3	29.708	0.01	0.21	0	0.003	71.1	67	59.6	71.2	12.33	0.073	24	1	100	1
9/18/2012	8:30 PM	70	70	69.9	93	67.9	0	---	0	0	---	70	72.3	72.3	29.705	0.01	0.43	0	0.003	71.1	67	59.6	71.2	12.33	0.0729	23	1	100	1
9/18/2012	8:31 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.704	0.01	0.72	0	0.003	71.1	67	59.6	71.2	12.33	0.0729	24	1	100	1
9/18/2012	8:32 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.704	0.02	0.9	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:33 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.703	0.01	0.9	0	0.003	70.9	67	59.4	71	12.33	0.073	24	1	100	1
9/18/2012	8:34 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.7	0.02	0.95	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:35 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.695	0.01	0.95	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:36 PM	69.9	70	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.689	0.01	0.66	0	0.003	70.9	67	59.4	71	12.33	0.0729	23	1	100	1
9/18/2012	8:37 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.686	0	0.48	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:38 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.683	0.01	0.48	0	0.003	70.7	67	59.2	70.7	12.34	0.073	24	1	100	1
9/18/2012	8:39 PM	69.8	69.9	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.69	0	0.28	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:40 PM	69.8	69.9	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.694	0.01	0.28	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:41 PM	69.8	69.8	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.698	0	0.31	0	0.003	70.7	67	59.2	70.7	12.34	0.073	24	1	100	1
9/18/2012	8:42 PM	69.8	69.8	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.704	0.01	0.31	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:43 PM	69.7	69.8	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.708	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	24	1	100	1
9/18/2012	8:44 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.709	0	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:45 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.703	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:46 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.699	0	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:47 PM	69.6	69.7	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:48 PM	69.6	69.6	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0	0.32	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:49 PM	69.5	69.6	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.697	0.01	0.35	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:50 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:51 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0.01	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	23	1	100	1
9/18/2012	8:52 PM	69.4	69.5	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.29	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:53 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.19	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	24	1	100	1
9/18/2012	8:54 PM	69.4	69.4	69.4	93	67.3	0	---	0	0	---	69.4	71.6	71.6	29.691	0.01	0.19	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:55 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.689	0	0.18	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	24	1	100	1
9/18/2012	8:56 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.685	0.01	0.28	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:57 PM	69.3	69.4	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.28	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:58 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0	0.24	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:59 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.17	0	0.003	70.2	68	59.1	70

Meteorological Data
Equity IRM

9/18/2012	10:18 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.71	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:19 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.711	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:20 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.713	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:21 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.714	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:22 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:23 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:24 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:25 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:26 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:27 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:28 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:29 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:30 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.717	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:31 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:32 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:33 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:34 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:35 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.719	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:36 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:37 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:38 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.719	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:39 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.72	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:40 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.721	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:41 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:42 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.722	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:43 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	22	1	95.7	1
9/18/2012	10:44 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:45 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	22	1	95.7	1
9/18/2012	10:46 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:47 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:48 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:49 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:50 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:51 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:52 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:53 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:54 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:55 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.722	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	10:56 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.721	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:57 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.722	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:58 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:59 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	11:00 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	11:01 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:02 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:03 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.726	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	11:04 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.726	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:05 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.729	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:06 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.729	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:07 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.732	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:08 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.736	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:09 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:10 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:11 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.734	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:12 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:13 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.736	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:14 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.737	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:15 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.738	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:16 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.739	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:17 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.741	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:18 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.742	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:19 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.743	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:20 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.745	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:21 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.747	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:22 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:23 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:24 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:25 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.751	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:26 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.751	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:27 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:28 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:29 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.755	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:30 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:31 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:32 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:33 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:34 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.754	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:35 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.754	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	22	1	95.7	1
9/18/2012	11:36 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:37 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.755	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	22	1	95.7	1
9/18/2012	11:38 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:39 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:40 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:41 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:42 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:43 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:44 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.76	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:45 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:46 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:47 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:48 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.76	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:49 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:50 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:51 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:52 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:53 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:54 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:55 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:56 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:57 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:58 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:59 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:00 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:01 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39

Meteorological Data
Equity IRM

9/19/2012	1:18 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:19 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:20 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:21 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:22 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:23 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:24 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:25 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	21	1	91.3	1
9/19/2012	1:26 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:27 AM	69.4	69.4	69.3	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:28 AM	69.4	69.4	69.3	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:29 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:30 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:31 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:32 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:33 AM	69.4	69.5	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:34 AM	69.5	69.5	69.4	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:35 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:36 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:37 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:38 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:39 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:40 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:41 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:42 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:43 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:44 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:45 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:46 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:47 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:48 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:49 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:50 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:51 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:52 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:53 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:54 AM	69.6	69.6	69.5	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:55 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:56 AM	69.6	69.6	69.5	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:57 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:58 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:59 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:00 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:01 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:02 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:03 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	2:04 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:05 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:06 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:07 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:08 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:09 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:10 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.752	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:11 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:12 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:13 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:14 AM	69.6	69.6	69.5	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:15 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:16 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:17 AM	69.6	69.6	69.5	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:18 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.757	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:19 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.756	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:20 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:21 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:22 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:23 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:24 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:25 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:26 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	22	1	95.7	1
9/19/2012	2:27 AM	69.7	69.7	69.6	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:28 AM	69.7	69.7	69.6	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:29 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:30 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:31 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	21	1	91.3	1
9/19/2012	2:32 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:33 AM	69.8	69.8	69.7	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:34 AM	69.8	69.8	69.7	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:35 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:36 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:37 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:38 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:39 AM	69.9	69.9	69.8	90	66.8	0	---	0	0	---	69.9	71.9	71.9	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:40 AM	69.9	69.9	69.8	89	66.5	0	---	0	0	---	69.9	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:41 AM	69.8	69.9	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:42 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:43 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:44 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:45 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:46 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:47 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:48 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:49 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:50 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:51 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:52 AM	69.7	69.7	69.7	90	66.6	0	---	0	0	---	69.7	71.7	71.7	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:53 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:54 AM	69.7	69.7	69.6	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	22	1	95.7	1
9/19/2012	2:55 AM	69.6	69.7	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:56 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:57 AM	69.6	69.6	69.6	89	66.2	0	---	0	0	---	69.6	71.5	71.5	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:58 AM	69.6	69.6	69.6	89	66.2	0	---	0	0	---	69.6	71.5	71.5

Meteorological Data
Equity IRM

9/19/2012	4:18 AM	63	63	63	77	55.7	0	---	0	0	---	63	63.1	63.1	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:19 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.837	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:20 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.839	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:21 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:22 AM	62.9	62.9	62.9	76	55.2	0	---	0	0	---	62.9	62.9	62.9	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:23 AM	62.8	62.8	62.8	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:24 AM	62.8	62.8	62.7	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:25 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.838	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:26 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:27 AM	62.7	62.7	62.7	75	54.7	0	---	0	0	---	62.7	62.6	62.6	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	24	1	100	1
9/19/2012	4:28 AM	62.7	62.7	62.7	75	54.7	0	---	0	0	---	62.7	62.6	62.6	29.836	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:29 AM	62.6	62.7	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.837	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:30 AM	62.6	62.7	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:31 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:32 AM	62.6	62.6	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.839	0	0	0.002	0	63.3	69	53	63	13.02	0.0747	24	1	100	1
9/19/2012	4:33 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.839	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:34 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.838	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	24	1	100	1
9/19/2012	4:35 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.842	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	23	1	100	1
9/19/2012	4:36 AM	62.6	62.6	62.5	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.836	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	23	1	100	1
9/19/2012	4:37 AM	62.6	62.6	62.5	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.836	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	24	1	100	1
9/19/2012	4:38 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.836	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:39 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	24	1	100	1
9/19/2012	4:40 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.837	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:41 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	22	1	95.7	1
9/19/2012	4:42 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:43 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:44 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:45 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:46 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:47 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:48 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.841	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:49 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.84	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:50 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:51 AM	62.5	62.6	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:52 AM	62.6	62.6	62.5	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:53 AM	62.6	62.6	62.6	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.844	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	4:54 AM	62.6	62.6	62.6	72	53.4	0	---	0	0	---	62.6	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:55 AM	62.6	62.6	62.5	72	53.4	0	---	0	0	---	62.6	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:56 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.842	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:57 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.844	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	4:58 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.846	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	4:59 AM	62.5	62.6	62.5	71	53	0	---	0	0	---	62.5	62.2	62.2	29.845	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	24	1	100	1
9/19/2012	5:00 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.846	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	5:01 AM	62.5	62.6	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.849	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	5:02 AM	62.5	62.6	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.848	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	5:03 AM	62.5	62.5	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.849	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:04 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.852	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:05 AM	62.5	62.6	62.5	68	51.8	0	---	0	0	---	62.5	62	62	29.851	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:06 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.853	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:07 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.853	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:08 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.855	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:09 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.852	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:10 AM	62.6	62.6	62.5	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.856	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:11 AM	62.6	62.6	62.5	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.858	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:12 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.854	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:13 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.858	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:14 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.857	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:15 AM	62.6	62.6	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.861	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:16 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.861	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:17 AM	62.6	62.6	62.6	66	51.1	0	---	0	0	---	62.6	62	62	29.862	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:18 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.864	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:19 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.864	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:20 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.869	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:21 AM	62.6	62.6	62.6	66	51.1	0	---	0	0	---	62.6	62	62	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	22	1	95.7	1
9/19/2012	5:22 AM	62.7	62.7	62.6	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.866	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:23 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.869	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:24 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:25 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:26 AM	62.7	62.7	62.7	65	50.8	0	---	0	0	---	62.7	62.1	62.1	29.87	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:27 AM	62.6	62.7	62.6	64	50.2	0	---	0	0	---	62.6	61.9	61.9	29.867	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:28 AM	62.6	62.7	62.6	63	49.8	0	---	0	0	---	62.6	61.8	61.8	29.866	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:29 AM	62.6	62.6	62.6	64	50.2	0	---	0	0	---	62.6	61.9	61.9	29.865	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:30 AM	62.5	62.6	62.5	64	50.2	0	---	0	0	---	62.5	61.8	61.8	29.867	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:31 AM	62.5	62.6	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.866	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:32 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.866	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:33 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.867	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:34 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.872	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:35 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:36 AM	62.4	62.5	62.4	65	50.5	0	---	0	0	---	62.4	61.7	61.7	29.871	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:37 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.873	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:38 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:39 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:40 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:41 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:42 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.875	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:43 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.877	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:44 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.876	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:45 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.876	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:46 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.875	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:47 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:48 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.88	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:49 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:50 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:51 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:52 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:53 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:54 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.884	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:55 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.885	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:56 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.885	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:57 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.884	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:58 AM	62.2	62.3	62.2	66	50.7	0	---	0	0	---	62.2	61.6	61.6	29.887	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:59 AM	62.2	62.3	62.2	65	50.3	0	---	0	0	---	62.2	61

Meteorological Data
Equity IRM

9/19/2012	7:18 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.925	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:19 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:20 AM	61.9	61.9	61.8	63	49.2	0	---	0	0	---	61.9	61	61	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:21 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.928	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:22 AM	61.9	61.9	61.9	64	49.6	0	---	0	0	---	61.9	61.1	61.1	29.93	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:23 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	24	1	100	1
9/19/2012	7:24 AM	62	62	61.9	64	49.7	0	---	0	0	---	62	61.2	61.2	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	23	1	100	1
9/19/2012	7:25 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.928	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	24	1	100	1
9/19/2012	7:26 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.929	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	23	1	100	1
9/19/2012	7:27 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.93	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	23	1	100	1
9/19/2012	7:28 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.928	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	24	1	100	1
9/19/2012	7:29 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.931	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	23	1	100	1
9/19/2012	7:30 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.929	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	24	1	100	1
9/19/2012	7:31 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.932	0	0	0.002	0	61.6	66	50.1	60.9	12.29	0.0752	23	1	100	1
9/19/2012	7:32 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.933	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:33 AM	61.9	61.9	61.8	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.931	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0752	24	1	100	1
9/19/2012	7:34 AM	61.9	61.9	61.8	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.934	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:35 AM	61.9	61.9	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.933	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:36 AM	61.9	61.9	61.9	60	47.9	0	---	0	0	---	61.9	60.7	60.7	29.935	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:37 AM	61.9	61.9	61.9	60	47.9	0	---	0	0	---	61.9	60.7	60.7	29.935	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:38 AM	61.9	61.9	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.938	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:39 AM	61.9	61.9	61.9	59	47.4	0	---	0	0	---	61.9	60.6	60.6	29.944	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:40 AM	61.9	61.9	61.9	59	47.4	0	---	0	0	---	61.9	60.6	60.6	29.943	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:41 AM	62	62	61.9	60	48	0	---	0	0	---	62	60.8	60.8	29.944	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	23	1	100	1
9/19/2012	7:42 AM	62	62	61.9	60	48	0	---	0	0	---	62	60.8	60.8	29.943	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	24	1	100	1
9/19/2012	7:43 AM	62	62	62	60	48	0	---	0	0	---	62	60.8	60.8	29.942	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	23	1	100	1
9/19/2012	7:44 AM	62	62	62	60	48	0	---	0	0	---	62	60.8	60.8	29.944	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:45 AM	62.1	62.1	62	61	48.5	0	---	0	0	---	62.1	61	61	29.944	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:46 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:47 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	24	1	100	1
9/19/2012	7:48 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:49 AM	62.2	62.2	62.1	60	48.1	0	---	0	0	---	62.2	61	61	29.947	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:50 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.949	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:51 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.952	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:52 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.951	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:53 AM	62.1	62.2	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.951	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:54 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.952	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:55 AM	62.1	62.1	62.1	61	48.5	0	---	0	0	---	62.1	61	61	29.954	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	22	1	95.7	1
9/19/2012	7:56 AM	62.2	62.2	62.1	61	48.6	0	---	0	0	---	62.2	61.1	61.1	29.955	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:57 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:58 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:59 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.954	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	8:00 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.954	0	0	0.002	0	61.9	63	49.2	61	11.65	0.0753	23	1	100	1
9/19/2012	8:01 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	63	49.2	61	11.65	0.0753	23	1	100	1
9/19/2012	8:02 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.957	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	24	1	100	1
9/19/2012	8:03 AM	62.2	62.2	62.2	61	48.6	0	---	0	0	---	62.2	61.1	61.1	29.957	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:04 AM	62.3	62.3	62.2	61	48.7	0	---	0	0	---	62.3	61.2	61.2	29.958	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:05 AM	62.3	62.3	62.3	62	49.1	0	---	0	0	---	62.3	61.3	61.3	29.959	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:06 AM	62.4	62.4	62.3	61	48.8	0	---	0	0	---	62.4	61.3	61.3	29.961	0	0	0.002	0	62.2	63	49.4	61.3	11.65	0.0752	24	1	100	1
9/19/2012	8:07 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.959	0	0	0.002	0	62.2	63	49.4	61.3	11.65	0.0752	23	1	100	1
9/19/2012	8:08 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.958	0	0	0.002	0	62.4	63	49.6	61.5	11.65	0.0752	23	1	100	1
9/19/2012	8:09 AM	62.3	62.4	62.3	61	48.7	0	---	0	0	---	62.3	61.2	61.2	29.957	0	0	0.002	0	62.4	63	49.6	61.5	11.65	0.0752	24	1	100	1
9/19/2012	8:10 AM	62.4	62.4	62.3	61	48.8	0	---	0	0	---	62.4	61.3	61.3	29.963	0	0	0.002	0	62.5	63	49.7	61.7	11.65	0.0752	23	1	100	1
9/19/2012	8:11 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.96	0	0	0.002	0	62.5	63	49.7	61.7	11.65	0.0752	24	1	100	1
9/19/2012	8:12 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.961	0	0	0.002	0	62.7	63	49.9	61.9	11.65	0.0752	23	1	100	1
9/19/2012	8:13 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.961	0	0	0.002	0	62.9	63	50.1	62.1	11.65	0.0751	23	1	100	1
9/19/2012	8:14 AM	62.5	62.5	62.4	60	48.4	0	---	0	0	---	62.5	61.3	61.3	29.961	0	0	0.002	0	62.9	63	50.1	62.1	11.65	0.0751	24	1	100	1
9/19/2012	8:15 AM	62.5	62.5	62.5	60	48.4	0	---	0	0	---	62.5	61.3	61.3	29.963	0	0	0.002	0	63	62	49.8	62.1	11.45	0.0751	23	1	100	1
9/19/2012	8:16 AM	62.7	62.7	62.5	61	49.1	0	---	0	0	---	62.7	61.7	61.7	29.964	0	0	0.002	0	63.2	62	50	62.3	11.45	0.0751	24	1	100	1
9/19/2012	8:17 AM	62.7	62.7	62.6	60	48.6	0	---	0	0	---	62.7	61.6	61.6	29.965	0	0	0.002	0	63.3	62	50.1	62.4	11.45	0.0751	23	1	100	1
9/19/2012	8:18 AM	62.8	62.8	62.7	59	48.3	0	---	0	0	---	62.8	61.6	61.6	29.963	0	0	0.002	0	63.3	62	50.1	62.4	11.45	0.0751	24	1	100	1
9/19/2012	8:19 AM	62.9	62.9	62.8	59	48.3	0	---	0	0	---	62.9	61.7	61.7	29.964	0	0	0.001	0	63.5	62	50.2	62.7	11.45	0.075	23	1	100	1
9/19/2012	8:20 AM	63	63	62.9	59	48.4	0	---	0	0	---	63	61.8	61.8	29.962	0	0	0.001	0	63.6	62	50.3	62.8	11.45	0.075	23	1	100	1
9/19/2012	8:21 AM	63	63	63	59	48.4	0	---	0	0	---	63	61.8	61.8	29.961	0	0	0.001	0	63.8	62	50.5	63	11.45	0.075	24	1	100	1
9/19/2012	8:22 AM	63.1	63.1	63	59	48.5	0	---	0	0	---	63.1	62	62	29.961	0	0	0.001	0	64.1	61	50.4	63.3	11.25	0.0749	23	1	100	1
9/19/2012	8:23 AM	63.1	63.1	63.1	58	48.1	0	---	0	0	---	63.1	61.9	61.9	29.961	0	0	0.001	0	64.3	61	50.6	63.5	11.25	0.0749	24	1	100	1
9/19/2012	8:24 AM	63.2	63.2	63.1	58	48.2	0	---	0	0	---	63.2	62	62	29.962	0	0	0.001	0	64.5	61	50.7	63.7	11.25	0.0749	23	1	100	1
9/19/2012	8:25 AM	63.2	63.2	63.2	58	48.2	0	---	0	0	---	63.2	62	62	29.961	0	0	0.001	0	64.8	61	51	64.1	11.25	0.0748	23	1	100	1
9/19/2012	8:26 AM	63.2	63.3	63.2	57	47.7	0	---	0	0	---	63.2	61.9	61.9	29.962	0	0	0.001	0	65.1	61	51.3	64.4	11.25	0.0748	24	1	100	1
9/19/2012	8:27 AM	63.4	63.4	63.2	58	48.4	0	---	0	0	---	63.4	62.2	62.2	29.966	0	0	0.001	0	65.4	61	51.6	64.7	11.25	0.0747	23	1	100	1
9/19/2012	8:28 AM	63.5	63.5	63.4	58	48.5	0	---	0	0	---	63.5	62.4	62.4	29.969	0	0	0.001	0	65.8	60	51.5	65.1	11.05	0.0747	24	1	100	1
9/19/2012	8:29 AM	63.7	63.7	63.6	59	49.1	0	---	0	0	---	63.7	62.7	62.7	29.967	0	0	0.001	0	66.1	60	51.8	65.4	11.05	0.0746	23	1	100	1
9/19/2012	8:30 AM	63.7	63.8	63.7	56	47.7	0	---	0	0	---	63.7	62.4	62.4	29.969	0	0	0.001	0	66.6	59	51.8	65.9	10.95	0.0746	23	1	100	1
9/19/2012	8:31 AM	63.7	63.8	63.7	56	47.7	0	---	0	0	---	63.7	62.4	62.4	29.966	0	0	0.001	0	66.9	59	52.1	66.3	10.95	0.0745	23	1	100	1
9/19/2012	8:32 AM	63.6	63.6	63.6	57	48.1	0	---	0	0	---	63.6	62.4	62.4	29.967	0	0	0.001	0	67	59	52.2	66.4	10.95	0.0745	23	1	100	1
9/19/2012	8:33 AM	63.5	63.6	63.5	57	48	0	---	0	0	---	63.5	62.3	62.3	29.967	0	0	0.001	0	67.2	59	52.4	66.7	10.95	0.0744	24	1	100	1
9/19/2012	8:34 AM	63.4	63.5	63.4	57	47.9	0	---	0	0	---	63.4	62.2	62.2	29.967	0	0	0.001	0	67.5	59	52.7	67	10.95	0.0744	23	1	100	1
9/19/2012	8:35 AM	63.4	63.4	63.4	56	47.4	0	---	0	0	---	63.4	62.1	62.1	29.968	0	0	0.001	0	67.7	58	52.4	67.2	10.75	0.0744	23	1	100	1
9/19/2012	8:36 AM	63.3	63.3	63.3	56	47.3	0	---	0	0	---	63.3	62	62	29.966	0	0	0.001	0	67.7	58	52.4	67.2	10.75	0.0744	23	1	100	1
9/19/2012	8:37 AM	63.2	63.3	63.2	57	47.7	0	---	0	0	---	63.2	61.9	61.9	29.968	0	0	0.001	0	67.9	58	52.6	67.4	10.75	0.0743	23	1	100	1
9/19/2012	8:38 AM	63.2	63.2	63.2	56	47.2	0	---	0	0	---	63.2	61.9	61.9	29.967	0	0	0.001	0	68	58	52.7	67.5	10.75	0.0743	24	1	100	1
9/19/2012	8:39 AM	63.2	63.2	63.2	56	47.2	0	---	0	0	---	63.2	61.9	61.9	29.968	0	0	0.001	0	68	58	52.7	67.5	10.75	0.0743	23	1	100	1
9/19/2012	8:40 AM	63.1	63.2	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.969	0	0	0.001	0	68.2	58	52.9	67.6	10.75	0.0743	23	1	100	1
9/19/2012	8:41 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.97	0	0	0.001	0	68.2	58	52.9	67.6	10.75	0.0743	23	1	100	1
9/19/2012	8:42 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.972	0	0	0.001	0	68.4	58	53	67.8	10.75	0.0743	22	1	95.7	1
9/19/2012	8:43 AM	63.1	63.1	63.1	58	48.1	0	---	0	0	---	63.1	61.9	61.9	29.968	0	0	0.001	0	68.4	57	52.6	67.7	10.58	0.0743	24	1	100	1
9/19/2012	8:44 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.969	0	0	0.001	0	68.4	57	52.6	67.7	10.58	0.0743	22	1	95.7	1
9/19/2012	8:45 AM	63	63.1	63	58	48	0	---	0	0	---	63	61.8	61.8	29.971	0	0	0.001	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:46 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.971	0	0	0.001	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:47 AM	63	63	62.9	59	48.4	0	---	0	0	---	63	61.8	61.8	29.971	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:48 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.974	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:49 AM	63	63	63	59	48.4	0	---	0	0	---	63	61.8	61.8	29.977	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:50 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.976	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:51 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.979	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	21	1	91.3	1
9/19/2012	8:52 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:53 AM	62.9	62.9	62.9	57	47.4	0	---	0	0	---	62.9	61.6	61.6	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:54 AM	62.8	62.8	62.8	57	47.3	0	---	0	0	---	62.8	61.5	61.5	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:55 AM	62.6	62.7	62.6	57	47.1	0	---	0	0	---	62.6	61.3	61.3	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	24	1	100	1
9/19/2012	8:56 AM	62.5	62.6	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.2	29.982	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0743	22	1	95.7	1
9/19/2012	8:57 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.98	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	24	1	100	1
9/19/2012	8:58 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.978	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:59 AM	62.5	62.5	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.2	29.977	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	24	1	100	1
9/19/2012	9:00 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5

Meteorological Data
Equity IRM

9/19/2012	10:18 AM	65.7	65.7	65.6	50	46.5	5	N	0.08	10	N	65.7	64.1	64.1	30.005	0	0	0	0	75.2	51	55.8	75.4	9.35	0.0733	23	1	100	1
9/19/2012	10:19 AM	65.7	65.7	65.7	50	46.5	7	NNW	0.12	14	NW	65.7	64.1	64.1	30.008	0	0	0	0	75.4	51	56	75.5	9.35	0.0733	24	1	100	1
9/19/2012	10:20 AM	65.8	65.8	65.7	50	46.6	5	ESE	0.08	8	NNW	65.8	64.2	64.2	30.008	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0733	23	1	100	1
9/19/2012	10:21 AM	65.8	65.8	65.7	52	47.7	4	NE	0.07	7	ENE	65.8	64.4	64.4	30.006	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	24	1	100	1
9/19/2012	10:22 AM	65.9	65.9	65.9	51	47.3	5	NE	0.08	9	E	65.9	64.4	64.4	30.007	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	23	1	100	1
9/19/2012	10:23 AM	65.9	66	65.9	51	47.3	7	ENE	0.12	10	ENE	65.9	64.4	64.4	30.008	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	23	1	100	1
9/19/2012	10:24 AM	65.8	65.9	65.8	50	46.6	4	NE	0.07	6	NNE	65.8	64.2	64.2	30.005	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	24	1	100	1
9/19/2012	10:25 AM	65.8	65.9	65.8	52	47.7	3	ENE	0.05	8	ENE	65.8	64.4	64.4	30.004	0	0	0	0.001	75.9	51	56.5	76	9.35	0.0732	23	1	100	1
9/19/2012	10:26 AM	65.9	65.9	65.8	52	47.8	4	NNE	0.07	5	NNE	65.9	64.5	64.5	30.004	0	0	0	0.001	76.1	51	56.7	76.1	9.35	0.0731	23	1	100	1
9/19/2012	10:27 AM	66	66	65.9	52	47.9	6	E	0.1	8	ESE	66	64.6	64.6	30.006	0	0	0	0.001	76.1	51	56.7	76.1	9.35	0.0731	23	1	100	1
9/19/2012	10:28 AM	66	66	66	52	47.9	5	NNE	0.08	9	NNW	66	64.6	64.6	30.004	0	0	0	0.001	76.6	43	52.4	76	8.05	0.0732	22	1	95.7	1
9/19/2012	10:29 AM	66.1	66.1	66.1	51	47.4	4	NNW	0.07	8	NNW	66.1	64.6	64.6	30.004	0	0	0	0.001	77.5	46	55.1	77.1	8.5	0.073	23	1	100	1
9/19/2012	10:30 AM	66.2	66.2	66.1	51	47.5	2	NE	0.03	4	ENE	66.2	64.7	64.7	30.002	0	0	0	0.001	78	46	55.5	77.7	8.49	0.0729	23	1	100	1
9/19/2012	10:31 AM	66.3	66.3	66.2	52	48.1	4	ENE	0.07	8	NNW	66.3	65	65	30.003	0	0	0	0.001	78.4	47	56.5	78.2	8.68	0.0728	23	1	100	1
9/19/2012	10:32 AM	66.4	66.4	66.4	51	47.7	6	NNW	0.1	10	N	66.4	65	65	30.006	0	0	0	0.001	78.8	47	56.9	78.7	8.67	0.0728	23	1	100	1
9/19/2012	10:33 AM	66.4	66.4	66.4	51	47.7	4	N	0.07	9	NNW	66.4	65	65	30.006	0	0	0	0.001	79	47	57	78.9	8.67	0.0727	23	1	100	1
9/19/2012	10:34 AM	66.3	66.4	66.3	50	47.1	6	ENE	0.1	11	ENE	66.3	64.8	64.8	30.008	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:35 AM	66.4	66.4	66.3	51	47.7	5	ENE	0.08	8	ENE	66.4	65	65	30.007	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	22	1	95.7	1
9/19/2012	10:36 AM	66.4	66.4	66.4	50	47.2	7	NE	0.12	10	NNE	66.4	64.9	64.9	30.007	0	0	0	0.001	79.2	45	56	78.9	8.37	0.0727	24	1	100	1
9/19/2012	10:37 AM	66.4	66.4	66.4	50	47.2	3	N	0.05	5	N	66.4	64.9	64.9	30.008	0	0	0	0.001	79.2	45	56	78.9	8.37	0.0727	22	1	95.7	1
9/19/2012	10:38 AM	66.3	66.4	66.3	49	46.6	3	E	0.05	7	ENE	66.3	64.7	64.7	30.008	0	0	0	0.001	79.2	44	55.4	78.8	8.17	0.0728	23	1	100	1
9/19/2012	10:39 AM	66.3	66.3	66.3	50	47.1	7	E	0.12	10	E	66.3	64.8	64.8	30.007	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	23	1	100	1
9/19/2012	10:40 AM	66.4	66.4	66.3	49	46.7	8	ENE	0.13	10	E	65.8	64.8	64.2	30.011	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:41 AM	66.4	66.4	66.4	49	46.7	6	ENE	0.1	10	ENE	66.4	64.8	64.8	30.011	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	24	1	100	1
9/19/2012	10:42 AM	66.5	66.5	66.5	50	47.3	7	ENE	0.12	10	ENE	66.5	65	65	30.008	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	23	1	100	1
9/19/2012	10:43 AM	66.5	66.5	66.5	49	46.7	6	ENE	0.1	10	ESE	66.5	64.9	64.9	30.01	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	24	1	100	1
9/19/2012	10:44 AM	66.4	66.5	66.4	49	46.7	7	ENE	0.12	9	ENE	66.4	64.8	64.8	30.007	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:45 AM	66.4	66.4	66.4	50	47.2	6	NE	0.1	9	ENE	66.4	64.9	64.9	30.009	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	24	1	100	1
9/19/2012	10:46 AM	66.4	66.4	66.4	50	47.2	7	ENE	0.12	10	ENE	66.4	64.9	64.9	30.009	0	0	0	0.001	79.3	46	56.7	79.1	8.46	0.0727	23	1	100	1
9/19/2012	10:47 AM	66.5	66.5	66.4	50	47.3	7	ENE	0.12	11	N	66.5	65	65	30.007	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	23	1	100	1
9/19/2012	10:48 AM	66.5	66.5	66.5	49	46.7	6	ENE	0.1	11	ENE	66.5	64.9	64.9	30.007	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	24	1	100	1
9/19/2012	10:49 AM	66.6	66.6	66.5	51	47.9	6	NNE	0.1	9	NE	66.6	65.2	65.2	30.007	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:50 AM	66.6	66.6	66.6	48	46.3	7	NNE	0.12	12	NNW	66.6	64.9	64.9	30.008	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	24	1	100	1
9/19/2012	10:51 AM	66.5	66.6	66.5	49	46.7	5	NNE	0.08	9	ENE	66.5	64.9	64.9	30.006	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:52 AM	66.5	66.5	66.5	49	46.7	5	NNE	0.08	10	NE	66.5	64.9	64.9	30.008	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:53 AM	66.5	66.5	66.5	49	46.7	8	N	0.13	13	NNW	65.9	64.9	64.3	30.006	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	24	1	100	1
9/19/2012	10:54 AM	66.4	66.5	66.4	49	46.7	5	NNE	0.08	10	NNW	66.4	64.8	64.8	30.009	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:55 AM	66.4	66.4	66.3	49	46.7	8	N	0.13	15	N	65.8	64.8	64.2	30.01	0	0	0	0.001	79.5	42	54.4	78.8	7.86	0.0728	24	1	100	1
9/19/2012	10:56 AM	66.3	66.3	66.3	48	46	10	NNW	0.17	14	NNW	64.3	64.6	62.6	30.01	0	0	0	0.001	79.3	39	52.2	78.4	7.46	0.0729	23	1	100	1
9/19/2012	10:57 AM	66.2	66.3	66.2	49	46.5	6	N	0.1	11	NNE	66.2	64.5	64.5	30.013	0	0	0	0.001	79.2	40	52.8	78.4	7.57	0.0729	24	1	100	1
9/19/2012	10:58 AM	66.3	66.3	66.2	50	47.1	6	NNE	0.1	9	NNW	66.3	64.8	64.8	30.013	0	0	0	0.001	79	41	53.3	78.3	7.75	0.0729	23	1	100	1
9/19/2012	10:59 AM	66.3	66.3	66.3	48	46	8	N	0.13	16	N	65.7	64.6	64	30.017	0	0	0	0.001	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:00 AM	66.3	66.3	66.3	49	46.6	5	ENE	0.08	16	N	66.3	64.7	64.7	30.013	0	0	0	0.001	78.6	42	53.6	78	7.88	0.0729	24	1	100	1
9/19/2012	11:01 AM	66.4	66.4	66.3	49	46.7	6	ENE	0.1	10	ESE	66.4	64.8	64.8	30.013	0	0	0	0.001	78.6	42	53.6	78	7.88	0.0729	23	1	100	1
9/19/2012	11:02 AM	66.5	66.5	66.4	49	46.7	7	ENE	0.12	10	ENE	66.5	64.9	64.9	30.012	0	0	0	0.001	78.4	40	52.1	77.5	7.58	0.073	24	1	100	1
9/19/2012	11:03 AM	66.6	66.6	66.6	48	46.3	7	ENE	0.12	11	ENE	66.6	64.9	64.9	30.015	0	0	0	0.001	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:04 AM	66.7	66.7	66.6	48	46.4	8	ENE	0.13	13	NNE	66.1	65	64.4	30.015	0	0	0	0.001	78.2	41	52.6	77.4	7.75	0.073	23	1	100	1
9/19/2012	11:05 AM	66.7	66.7	66.7	48	46.4	4	NE	0.07	8	ENE	66.7	65	65	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:06 AM	66.8	66.8	66.7	48	46.5	5	NNE	0.08	8	ESE	66.8	65.2	65.2	30.017	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:07 AM	66.9	66.9	66.8	47	46	8	NNW	0.13	13	NNW	66.3	65.2	64.6	30.018	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:08 AM	66.9	66.9	66.9	48	46.6	6	NNW	0.1	11	NNW	66.9	65.3	65.3	30.015	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:09 AM	67	67	66.9	48	46.7	8	NE	0.13	14	N	66.4	65.4	64.8	30.015	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	22	1	95.7	1
9/19/2012	11:10 AM	67	67	67	48	46.7	4	NE	0.07	7	NE	67	65.4	65.4	30.017	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:11 AM	67	67	67	48	46.7	5	NNW	0.08	8	ENE	67	65.4	65.4	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:12 AM	67	67	67	48	46.7	4	NE	0.07	7	ENE	67	65.4	65.4	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:13 AM	67	67	67	48	46.7	8	NE	0.13	13	ENE	66.4	65.4	64.8	30.018	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	23	1	100	1
9/19/2012	11:14 AM	67	67	67	48	46.7	7	E	0.12	9	ENE	67	65.4	65.4	30.019	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	24	1	100	1
9/19/2012	11:15 AM	67.1	67.1	67	49	47.3	5	ENE	0.08	7	ENE	67.1	65.6	65.6	30.019	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:16 AM	67.2	67.2	67.1	48	46.8	7	ENE	0.12	10	NE	67.2	65.6	65.6	30.022	0	0	0	0.002	78.2	43	53.9	77.6	8.05	0.073	22	1	95.7	1
9/19/2012	11:17 AM	67.2	67.2	67.1	47	46.3	4	E	0.07	6	E	67.2	65.5	65.5	30.02	0	0	0	0.002	78.4	43	54	77.8	8.05	0.073	24	1	100	1
9/19/2012	11:18 AM	67.4	67.4	67.2	49	47.6	5	NNW	0.08	9	NW	67.4	65.9	65.9	30.021	0	0	0	0.002	78.4	43	54	77.8	8.05	0.073	22	1	95.7	1
9/19/2012	11:19 AM	67.5	67.5	67.4	49	47.7	6	NNE	0.1	10	ENE	67.5	66.1	66.1	30.02	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	24	1	100	1
9/19/2012	11:20 AM	67.6	67.6	67.5	47	46.6	5	NE	0.08	9	ENE	67.6	66	66	30.02	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	22	1	95.7	1
9/19/2012	11:21 AM	67.6	67.6	67.6	47	46.6	6	NNW	0.1	10	NNE	67.6	66	66	30.019	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:22 AM	67.7	67.7	67.6	47	46.7	6	NNE	0.1	8	ENE	67.7	66.1	66.1	30.023	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	24	1	100	1
9/19/2012	11:23 AM	67.7	67.7	67.7	47	46.7	5	E	0.08	9	NNE	67.7	66.1	66.1	30.025	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:24 AM	67.6	67.7	67.6	47	46.6	6	ENE	0.1	10	ENE	67.6	66	66	30.024	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	24	1	100	1
9/19/2012	11:25 AM	67.6	67.6	67.6	47	46.6	6	NE	0.1	10	ENE	67.6	66	66	30.024	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	22	1	95.7	1
9/19/2012	11:26 AM	67.6	67.6	67.6	47	46.6	5	ENE	0.08	9	E	67.6	66	66	30.026	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	24	1	100	1
9/19/2012	11:27 AM	67.6	67.6	67.6	47	46.6	6	NNE	0.1	11	NNE	67.6	66	66	30.025	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:28 AM	67.5	67.6	67.5	47	46.6	7	ENE	0.12	12	NNE	67.5	65.8	65.8	30.023	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	23	1	100	1
9/19/2012	11:29 AM	67.5	67.5	67.5	48	47.1	7	ENE	0.12	10	ENE	67.5	65.9	65.9	30.024	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	23	1	100	1
9/19/2012	11:30 AM	67.5	67.5	67.5	48	47.1	6	E	0.1	9	E	67.5	65.9	65.9	30.025	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	22	1	95.7	1
9/19/2012	11:31 AM	67.6	67.6	67.5	47	46.6	5	E	0.08	9	ENE	67.6	66	66	30.025	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	24	1	100	1
9/19/2012	11:32 AM	67.7	67.7	67.6	47	46.7	5	NNE	0.08	12	NW	67.7	66.1	66.1	30.024	0	0	0	0.002	79	43	54.6	78.5	8.05	0.0729	23	1	100	1
9/19/2012	11:33 AM	67.7	67.7	67.7	46	46.2	7	NNE	0.12	12	NW	67.7	66	66	30.024	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:34 AM	67.7	67.7	67.7	47	46.7	5	NNE	0.08	8	NNW	67.7	66.1	66.1	30.026	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:35 AM	67.6	67.7	67.6	47	46.6	5	NE	0.08	10	ENE	67.6	66	66	30.025	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:36 AM	67.7	67.7	67.6	47	46.7	5	NNW	0.08	10	ENE	67.7	66.1	66.1	30.024	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	24	1	100	1
9/19/2012	11:37 AM	67.7	67.7	67.7	48	47.3	5	ENE	0.08	11	NNW	67.7	66.2	66.2	30.025	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:38 AM	67.8	67.8	67.7	48	47.4	4	ENE	0.07	11	NNW	67.8	66.3	66.3	30.027	0	0	0	0.002	79	41	53.3	78.3	7.75	0.0729	24	1	100	1
9/19/2012	11:39 AM	67.8	67.8	67.8	47	46.8	5	NE	0.08	11	ENE	67.8	66.2	66.2	30.03	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:40 AM	67.9	67.9	67.8	48	47.5	7	E	0.12	11	ENE	67.9	66.4	66.4	30.029	0	0	0	0.002	78.8	41	53.1	78.1	7.75	0.073	23	1	100	1
9/19/2012	11:41 AM	67.9	67.9	67.9	47	46.9	6	NE	0.1	10	ENE	67.9	66.3	66.3	30.03	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:42 AM	67.9	67.9	67.9	47	46.9	4	NE	0.07	8	NE	67.9	66.3	66.3	30.029	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:43 AM	67.8	67.9	67.8	48	47.4	4	E	0.07	7	E	67.8	66.3	66.3	30.028	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:44 AM	67.7	67.7	67.7	48	47.3	4	NNE	0.07	7	NE	67.7	66.2	66.2	30.028	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:45 AM	67.8	67.8	67.7	48	47.4	5	NNW	0.08	7	ENE	67.8	66.3	66.3	30.029	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:46 AM	67.9	67.9	67.8	47	46.9	4	NNE	0.07	9	NNW	67.9	66.3	66.3	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:47 AM	68	68	67.9	47	47	5	NNW	0.08	8	NNW	68	66.4	66.4	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:48 AM	68	68.1	68	46	46.4	8	E	0.13	13	N	67.3	66.3	65.6	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:49 AM	68.2	68.2	68	47	47.2	6	E	0.1	9	NE	68.2	66.6	66.6	30.027	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:50 AM	68.3	68.3	68.2	47	47.3	5	NE	0.08	10	NNE	68.3	66.7	66.7	30.029	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:51 AM	68.4	68.5	68.3	47	47.4	6	NNW	0.1	9	NNW	68.4	66.8	66.8	30.028	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:52 AM	68.4	68.5	68.4	45	46.2	6	NNW	0.1	10	NNW	68.4	66.6	66.6	30.029	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	11:53 AM	68.4	68.4	68.4	46	46.8	8	NNW	0.13	12	WNW	67.7	66.7	66	30.026	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	24	1	100	1
9/19/2012	11:54 AM	68.5	68.5	68.4	45	46.3	7	E	0.12	11	ENE	68.5	66.6	66.6	30.026	0	0	0	0.002	78.6	40	52.3	77.8	7.58	0.073	22	1	95.7	1
9/19/2012	11:55 AM	68.4	68.5	68.4	45	46.2	6	E	0.1	8	ENE	68.4	66.6	66.6	30.028	0	0	0	0.002	78.4	41	52.7	77.6	7.75	0.073	24	1	100	1
9/19/2012	11:56 AM	68.4	68.4	68.4	45	46.2	7	E	0.12	10	E	68.4	66.6	66.6	30.027	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:57 AM	68.3	68.3	68.3	46	46.7	7	E	0.12	10	ENE	68.3	66.6	66.6	30.032	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:58 AM	68.3	68

Meteorological Data
Equity IRM

9/19/2012	1:18 PM	69.8	69.9	69.8	40	44.4	2	E	0.03	5	E	69.8	67.2	67.2	30.05	0	0	0	0.003	79.2	40	52.8	78.4	7.57	0.073	23	1	100	1
9/19/2012	1:19 PM	69.7	69.8	69.7	42	45.6	2	E	0.03	5	NW	69.7	67.3	67.3	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	23	1	100	1
9/19/2012	1:20 PM	69.8	69.8	69.7	42	45.7	2	NE	0.03	5	E	69.8	67.4	67.4	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	24	1	100	1
9/19/2012	1:21 PM	69.9	69.9	69.8	42	45.8	2	E	0.03	4	NE	69.9	67.4	67.4	30.051	0	0	0	0.003	79.3	39	52.2	78.4	7.46	0.073	23	1	100	1
9/19/2012	1:22 PM	70.1	70.1	69.9	41	45.3	4	ENE	0.07	9	ENE	70.1	67.5	67.5	30.052	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:23 PM	70.1	70.1	70.1	42	45.9	5	ESE	0.08	10	ENE	70.1	67.6	67.6	30.052	0	0	0	0.004	79.5	38	51.7	78.4	7.26	0.073	23	1	100	1
9/19/2012	1:24 PM	70.1	70.1	70.1	43	46.6	5	E	0.08	6	E	70.1	67.7	67.7	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:25 PM	70.2	70.2	70.1	43	46.6	3	ENE	0.05	5	NE	70.2	67.9	67.9	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:26 PM	70.3	70.3	70.2	42	46.1	3	E	0.05	6	E	70.3	67.9	67.9	30.05	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:27 PM	70.3	70.3	70.3	42	46.1	3	NNE	0.05	5	NNE	70.3	67.9	67.9	30.052	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:28 PM	70.4	70.4	70.3	41	45.6	3	ENE	0.05	6	NNW	70.4	67.9	67.9	30.051	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	23	1	100	1
9/19/2012	1:29 PM	70.4	70.4	70.4	42	46.2	3	E	0.05	5	NE	70.4	68	68	30.053	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:30 PM	70.5	70.5	70.4	42	46.3	3	NNE	0.05	5	ENE	70.5	68.1	68.1	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:31 PM	70.5	70.5	70.5	41	45.7	2	ENE	0.03	5	E	70.5	68.1	68.1	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:32 PM	70.6	70.6	70.5	42	46.4	3	N	0.05	5	N	70.6	68.3	68.3	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:33 PM	70.5	70.6	70.5	41	45.7	2	NE	0.03	3	NE	70.5	68.1	68.1	30.051	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:34 PM	70.4	70.5	70.4	40	44.9	3	ENE	0.05	7	ENE	70.4	67.8	67.8	30.05	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:35 PM	70.3	70.4	70.3	41	45.5	3	NE	0.05	6	NNW	70.3	67.8	67.8	30.05	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	23	1	100	1
9/19/2012	1:36 PM	70.3	70.3	70.3	41	45.5	3	NNW	0.05	6	NNW	70.3	67.8	67.8	30.051	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:37 PM	70.3	70.3	70.2	41	45.5	0	N	0	1	NNW	70.3	67.8	67.8	30.05	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.0729	23	1	100	1
9/19/2012	1:38 PM	70.4	70.4	70.3	42	46.2	2	ENE	0.03	6	E	70.4	68	68	30.051	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:39 PM	70.5	70.5	70.4	41	45.7	4	NE	0.07	8	NW	70.5	68.1	68.1	30.051	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:40 PM	70.6	70.6	70.5	41	45.7	5	E	0.08	10	ENE	70.6	68.2	68.2	30.055	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:41 PM	70.6	70.6	70.6	41	45.7	4	ENE	0.07	9	E	70.6	68.2	68.2	30.056	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:42 PM	70.5	70.6	70.5	41	45.7	3	ENE	0.05	7	E	70.5	68.1	68.1	30.056	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:43 PM	70.4	70.5	70.4	41	45.6	3	NE	0.05	7	E	70.4	67.9	67.9	30.055	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	22	1	95.7	1
9/19/2012	1:44 PM	70.3	70.4	70.3	41	45.5	5	E	0.08	9	ENE	70.3	67.8	67.8	30.053	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:45 PM	70.3	70.3	70.3	41	45.5	6	ENE	0.1	9	ENE	70.3	67.8	67.8	30.053	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	22	1	95.7	1
9/19/2012	1:46 PM	70.2	70.3	70.2	40	44.7	8	ENE	0.13	11	E	69.7	67.6	67.1	30.054	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:47 PM	70.2	70.2	70.2	42	46	6	ENE	0.1	8	ESE	70.2	67.8	67.8	30.057	0	0	0	0.004	79.7	38	51.8	78.6	7.26	0.073	22	1	95.7	1
9/19/2012	1:48 PM	70.1	70.2	70.1	41	45.3	6	E	0.1	8	ENE	70.1	67.5	67.5	30.056	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	21	1	91.3	1
9/19/2012	1:49 PM	70	70.1	70	39	43.9	3	E	0.05	7	ENE	70	67.2	67.2	30.056	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:50 PM	69.9	70	69.9	39	43.8	4	E	0.07	5	E	69.9	67.1	67.1	30.053	0	0	0	0.003	79.7	38	51.8	78.6	7.26	0.0729	22	1	95.7	1
9/19/2012	1:51 PM	69.8	69.9	69.8	39	43.7	6	ENE	0.1	9	ENE	69.8	67.1	67.1	30.056	0	0	0	0.003	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:52 PM	69.7	69.8	69.7	43	46.2	3	ENE	0.05	8	ENE	69.7	67.4	67.4	30.055	0	0	0	0.003	79.7	38	51.8	78.6	7.26	0.073	22	1	95.7	1
9/19/2012	1:53 PM	69.7	69.7	69.7	40	44.3	4	ENE	0.07	6	E	69.7	67.1	67.1	30.054	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:54 PM	69.8	69.8	69.7	41	45	4	NE	0.07	6	E	69.8	67.3	67.3	30.057	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	22	1	95.7	1
9/19/2012	1:55 PM	69.9	69.9	69.8	40	44.5	4	ENE	0.07	9	ENE	69.9	67.2	67.2	30.055	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:56 PM	69.9	69.9	69.8	40	44.5	5	ENE	0.08	9	ESE	69.9	67.2	67.2	30.055	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:57 PM	70.1	70.1	69.9	41	45.3	4	NE	0.07	6	N	70.1	67.5	67.5	30.057	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:58 PM	70.2	70.2	70.1	41	45.4	5	NW	0.08	11	NNW	70.2	67.7	67.7	30.056	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:59 PM	70.3	70.3	70.2	41	45.5	3	W	0.05	7	NNW	70.3	67.8	67.8	30.055	0	0	0	0.004	79.5	38	51.7	78.4	7.26	0.073	23	1	100	1
9/19/2012	2:00 PM	70.4	70.4	70.3	40	44.9	7	N	0.12	14	NNW	70.4	67.8	67.8	30.055	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	2:01 PM	70.4	70.5	70.4	40	44.9	4	NNE	0.07	7	NNW	70.4	67.8	67.8	30.054	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	2:02 PM	70.5	70.5	70.4	41	45.7	4	NNE	0.07	8	NNE	70.5	68.1	68.1	30.055	0	0	0	0.004	79.3	38	51.5	78.3	7.26	0.073	23	1	100	1
9/19/2012	2:03 PM	70.5	70.5	70.5	40	45	5	NNE	0.08	9	NW	70.5	67.9	67.9	30.057	0	0	0	0.004	79.3	38	51.5	78.3	7.26	0.073	24	1	100	1
9/19/2012	2:04 PM	70.4	70.5	70.4	40	44.9	3	NNE	0.05	6	N	70.4	67.8	67.8	30.058	0	0	0	0.004	79.3	39	52.2	78.4	7.46	0.073	23	1	100	1
9/19/2012	2:05 PM	70.3	70.4	70.3	41	45.5	2	E	0.03	5	E	70.3	67.8	67.8	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:06 PM	70.3	70.3	70.3	41	45.5	3	ENE	0.05	6	E	70.3	67.8	67.8	30.056	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:07 PM	70.4	70.4	70.3	41	45.6	3	E	0.05	6	E	70.4	67.9	67.9	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:08 PM	70.4	70.4	70.4	41	45.6	4	E	0.07	7	ESE	70.4	67.9	67.9	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:09 PM	70.6	70.6	70.5	40	45.1	3	NE	0.05	7	E	70.6	68.1	68.1	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:10 PM	70.7	70.7	70.6	39	44.5	4	W	0.07	5	NW	70.7	68.1	68.1	30.056	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:11 PM	70.7	70.7	70.6	40	45.2	2	W	0.03	5	NW	70.7	68.2	68.2	30.055	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:12 PM	70.8	70.8	70.7	40	45.3	4	NE	0.07	8	NNW	70.8	68.3	68.3	30.058	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:13 PM	70.9	70.9	70.8	40	45.4	3	ENE	0.05	5	ESE	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:14 PM	71	71	70.9	39	44.8	5	ENE	0.08	8	NW	71	68.5	68.5	30.058	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:15 PM	71.1	71.1	71.1	39	44.9	6	ENE	0.1	10	NNW	71.1	68.7	68.7	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:16 PM	71.1	71.1	71.1	38	44.2	6	N	0.1	9	N	71.1	68.6	68.6	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:17 PM	71	71.1	71	39	44.8	4	N	0.07	8	WNW	71	68.5	68.5	30.056	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:18 PM	70.9	71	70.9	40	45.4	5	WSW	0.08	8	WNW	70.9	68.5	68.5	30.056	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:19 PM	70.9	71	70.9	40	45.4	6	WSW	0.1	16	WSW	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:20 PM	70.9	70.9	70.8	40	45.4	5	ENE	0.08	8	N	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:21 PM	70.9	70.9	70.9	39	44.7	6	N	0.1	11	N	70.9	68.4	68.4	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:22 PM	70.9	70.9	70.9	38	44	4	ENE	0.07	12	NE	70.9	68.3	68.3	30.055	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:23 PM	70.9	70.9	70.9	38	44	9	N	0.15	13	N	69.5	68.3	66.9	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:24 PM	70.8	70.9	70.8	38	43.9	6	NNW	0.1	12	NNW	70.8	68.2	68.2	30.06	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	2:25 PM	70.8	70.8	70.8	38	43.9	5	NW	0.08	11	NNW	70.8	68.2	68.2	30.059	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:26 PM	70.7	70.7	70.7	39	44.5	2	NW	0.03	5	N	70.7	68.1	68.1	30.061	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:27 PM	70.8	70.8	70.7	38	43.9	4	ENE	0.07	10	NNW	70.8	68.2	68.2	30.061	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:28 PM	70.7	70.7	70.7	38	43.8	3	E	0.05	5	E	70.7	68	68	30.061	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:29 PM	70.7	70.7	70.7	38	43.8	2	E	0.03	3	ESE	70.7	68	68	30.06	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	24	1	100	1
9/19/2012	2:30 PM	70.7	70.8	70.7	39	44.5	8	NNW	0.13	11	N	70.2	68.1	67.6	30.062	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:31 PM	70.8	70.8	70.7	37	43.2	8	NNW	0.13	13	NNW	70.3	68.1	67.6	30.062	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	22	1	95.7	1
9/19/2012	2:32 PM	70.6	70.7	70.6	39	44.4	7	NNW	0.12	12	ENE	70.6	68	68	30.064	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	24	1	100	1
9/19/2012	2:33 PM	70.5	70.6	70.5	39	44.3	6	NNW	0.1	11	NW	70.5	67.9	67.9	30.061	0	0	0	0.004	78.8	35	48.8	77.6	6.87	0.0732	22	1	95.7	1
9/19/2012	2:34 PM	70.5	70.5	70.5	39	44.3	6	N	0.1	9	NW	70.5	67.9	67.9	30.061	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	24	1	100	1
9/19/2012	2:35 PM	70.7	70.7	70.6	40	45.2	5	NE	0.08	9	N	70.7	68.2	68.2	30.062	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	22	1	95.7	1
9/19/2012	2:36 PM	70.9	70.9	70.7	40	45.4	3	NE	0.05	8	NE	70.9	68.5	68.5	30.062	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	23	1	100	1
9/19/2012	2:37 PM	71	71	70.9	39	44.8	6	N	0.1	9	N	71	68.5	68.5	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:38 PM	71	71	71	38	44.1	5	E	0.08	8	ENE	71	68.4	68.4	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:39 PM	70.8	71	70.8	39	44.6	5	NNW	0.08	7	NNW	70.8	68.3	68.3	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:40 PM	70.8	70.8	70.8	39	44.6	4	NNW	0.07	7	NW	70.8	68.3	68.3	30.063	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	22	1	95.7	1
9/19/2012	2:41 PM	70.7	70.8	70.7	39	44.5	2	ENE	0.03	4	NE	70.7	68.1	68.1	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:42 PM	70.6	70.7	70.6	40	45.1	1	NE	0.02	3	NE	70.6	68.1	68.1	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:43 PM	70.7	70.7	70.7	40	45.2	3	NE	0.05	5	NNE	70.7	68.2	68.2	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:44 PM	70.7	70.7	70.7	39	44.5	2	ENE	0.03	3	NE	70.7	68.1	68.1	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:45 PM	70.7	70.7	70.7	40	45.2	1	NE	0.02	3	NE	70.7	68.2	68.2	30.067	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:46 PM	70.8	70.8	70.7	39	44.6	3	NE	0.05	7	NNE	70.8	68.3	68.3	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:47 PM	70.8	70.8	70.8	38	43.9	7	N	0.12	13	NW	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:48 PM	70.8	70.8	70.8	37	43.2	7	NNW	0.12	12	NNW	70.8	68.1	68.1	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:49 PM	70.8	70.8	70.8	38	43.9	2	ENE	0.03	3	ENE	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:50 PM	70.9	70.9	70.8	39	44.7	5	ENE	0.08	9	E	70.9	68.4	68.4	30.065	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:51 PM	71	71	70.9	38	44.1	6	E	0.1	8	NNE	71	68.4	68.4	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:52 PM	71.1	71.1	71	38	44.2	3	ENE	0.05	5	ENE	71.1	68.6	68.6	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:53 PM	71.2	71.2	71.2	38	44.3	4	E	0.07	6	E	71.2	68.7	68.7	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:54 PM	71.3	71.3	71.2	37	43.7	3	E	0.05	6	N	71.3	68.8	68.8	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:55 PM	71.4	71.4	71.3	38	44.5	6	NNW	0.1	9	N	71.4	69	69	30.068	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	2:56 PM	71.4	71.4	71.4	37	43.8	5	NNW	0.08	7	NW	71.4	68.9	68.9	30.067	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	24	1	100	1
9/19/2012	2:57 PM	71.4	71.4	71.4	37	43.8	1	NNW	0.02	4	NNW	71.4	68.9	68.9	30.068	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	22	1	95.7	1
9/19/2012	2:58 PM	71.4	71.4	71.4

Meteorological Data
Equity IRM

9/19/2012	4:18 PM	71	71	70.9	36	42.7	2	NNE	0.03	5	NNE	71	68.3	68.3	30.07	0	0	0	0.004	77.2	39	50.3	76.3	7.51	0.0734	24	1	100	1
9/19/2012	4:19 PM	71	71	71	35	42	4	E	0.07	7	ENE	71	68.2	68.2	30.071	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	22	1	95.7	1
9/19/2012	4:20 PM	71	71	71	36	42.7	6	NNE	0.1	12	ENE	71	68.3	68.3	30.074	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	24	1	100	1
9/19/2012	4:21 PM	70.9	71	70.9	35	41.9	6	N	0.1	10	N	70.9	68.1	68.1	30.075	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	22	1	95.7	1
9/19/2012	4:22 PM	70.8	70.9	70.8	34	41	5	NE	0.08	9	N	70.8	67.8	67.8	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	23	1	100	1
9/19/2012	4:23 PM	70.8	70.8	70.8	35	41.8	4	ENE	0.07	7	ENE	70.8	67.9	67.9	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	24	1	100	1
9/19/2012	4:24 PM	70.9	70.9	70.8	35	41.9	6	E	0.1	9	NE	70.9	68.1	68.1	30.076	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23	1	100	1
9/19/2012	4:25 PM	70.9	70.9	70.9	35	41.9	3	E	0.05	7	ENE	70.9	68.1	68.1	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	24	1	100	1
9/19/2012	4:26 PM	70.8	70.9	70.8	35	41.8	5	ENE	0.08	8	ENE	70.8	67.9	67.9	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23	1	100	1
9/19/2012	4:27 PM	70.7	70.8	70.7	34	40.9	6	ENE	0.1	9	ENE	70.7	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	24	1	100	1
9/19/2012	4:28 PM	70.7	70.7	70.7	34	40.9	6	E	0.1	11	ENE	70.7	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	23	1	100	1
9/19/2012	4:29 PM	70.6	70.6	70.6	35	41.6	3	E	0.05	6	E	70.6	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	23	1	100	1
9/19/2012	4:30 PM	70.5	70.6	70.5	35	41.5	4	ENE	0.07	7	ENE	70.5	67.6	67.6	30.077	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	24	1	100	1
9/19/2012	4:31 PM	70.5	70.5	70.5	35	41.5	4	NE	0.07	8	E	70.5	67.6	67.6	30.075	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	23	1	100	1
9/19/2012	4:32 PM	70.5	70.5	70.5	35	41.5	3	NNE	0.05	6	NNE	70.5	67.6	67.6	30.077	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	24	1	100	1
9/19/2012	4:33 PM	70.4	70.4	70.4	35	41.4	3	NE	0.05	5	NNE	70.4	67.4	67.4	30.078	0	0	0	0.004	76.1	39	49.3	75.2	7.53	0.0736	23	1	100	1
9/19/2012	4:34 PM	70.4	70.4	70.4	35	41.4	4	NNE	0.07	6	N	70.4	67.4	67.4	30.079	0	0	0	0.004	76.1	39	49.3	75.2	7.53	0.0736	23	1	100	1
9/19/2012	4:35 PM	70.3	70.4	70.3	34	40.6	3	E	0.05	5	E	70.3	67.2	67.2	30.078	0	0	0	0.004	75.9	39	49.2	74.9	7.53	0.0736	24	1	100	1
9/19/2012	4:36 PM	70.3	70.4	70.3	35	41.3	4	ENE	0.07	6	E	70.3	67.3	67.3	30.077	0	0	0	0.004	75.9	39	49.2	74.9	7.53	0.0736	23	1	100	1
9/19/2012	4:37 PM	70.3	70.3	70.3	34	40.6	4	ENE	0.07	7	ENE	70.3	67.2	67.2	30.078	0	0	0	0.004	75.9	40	49.8	75	7.63	0.0736	24	1	100	1
9/19/2012	4:38 PM	70.3	70.3	70.3	34	40.6	3	ENE	0.05	6	N	70.3	67.2	67.2	30.077	0	0	0	0.004	75.7	40	49.7	74.8	7.64	0.0736	23	1	100	1
9/19/2012	4:39 PM	70.3	70.3	70.3	33	39.8	3	E	0.05	5	ENE	70.3	67.1	67.1	30.082	0	0	0	0.004	75.7	40	49.7	74.8	7.64	0.0736	22	1	95.7	1
9/19/2012	4:40 PM	70.3	70.3	70.2	34	40.6	4	NE	0.07	9	ENE	70.3	67.2	67.2	30.081	0	0	0	0.004	75.6	40	49.6	74.7	7.64	0.0737	24	1	100	1
9/19/2012	4:41 PM	70.3	70.3	70.3	34	40.6	2	ENE	0.03	4	NNE	70.3	67.2	67.2	30.081	0	0	0	0.004	75.6	40	49.6	74.7	7.64	0.0737	23	1	100	1
9/19/2012	4:42 PM	70.3	70.3	70.3	35	41.3	2	NE	0.03	4	NNE	70.3	67.3	67.3	30.079	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	24	1	100	1
9/19/2012	4:43 PM	70.4	70.4	70.4	34	40.7	3	N	0.05	8	N	70.4	67.3	67.3	30.082	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	23	1	100	1
9/19/2012	4:44 PM	70.5	70.5	70.4	35	41.5	3	NNE	0.05	7	NNE	70.5	67.6	67.6	30.08	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	24	1	100	1
9/19/2012	4:45 PM	70.6	70.6	70.6	34	40.9	3	E	0.05	8	ENE	70.6	67.6	67.6	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	23	1	100	1
9/19/2012	4:46 PM	70.7	70.7	70.6	34	40.9	3	NNE	0.05	5	E	70.7	67.7	67.7	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	22	1	95.7	1
9/19/2012	4:47 PM	70.8	70.8	70.7	34	41	4	NE	0.07	8	NNW	70.8	67.8	67.8	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	24	1	100	1
9/19/2012	4:48 PM	70.8	70.8	70.8	35	41.8	3	ENE	0.05	6	E	70.8	67.9	67.9	30.084	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	23	1	100	1
9/19/2012	4:49 PM	70.8	70.8	70.7	35	41.8	2	ENE	0.03	5	N	70.8	67.9	67.9	30.083	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	24	1	100	1
9/19/2012	4:50 PM	70.8	70.8	70.8	35	41.8	1	ENE	0.02	3	ENE	70.8	67.9	67.9	30.083	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	22	1	95.7	1
9/19/2012	4:51 PM	71	71	70.8	35	42	2	NNE	0.03	4	NE	71	68.2	68.2	30.084	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	23	1	100	1
9/19/2012	4:52 PM	71.1	71.1	71	34	41.3	2	NNE	0.03	4	NNE	71.1	68.2	68.2	30.084	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	24	1	100	1
9/19/2012	4:53 PM	71.2	71.2	71.1	35	42.1	4	NE	0.07	10	NNW	71.2	68.5	68.5	30.085	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	23	1	100	1
9/19/2012	4:54 PM	71.2	71.2	71.1	34	41.4	1	NE	0.02	2	NE	71.2	68.4	68.4	30.085	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	24	1	100	1
9/19/2012	4:55 PM	71.1	71.2	71.1	34	41.3	3	ENE	0.05	5	ENE	71.1	68.2	68.2	30.083	0	0	0	0.004	74.7	40	48.8	73.9	7.66	0.0738	23	1	100	1
9/19/2012	4:56 PM	71	71.1	71	35	42	4	NNW	0.07	8	NNW	71	68.2	68.2	30.084	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	24	1	100	1
9/19/2012	4:57 PM	71	71.1	71	35	42	2	NE	0.03	4	N	71	68.2	68.2	30.083	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	23	1	100	1
9/19/2012	4:58 PM	71	71	71	34	41.2	3	E	0.05	4	NE	71	68.1	68.1	30.081	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	22	1	95.7	1
9/19/2012	4:59 PM	70.9	70.9	70.9	35	41.9	5	NE	0.08	9	ENE	70.9	68.1	68.1	30.083	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	24	1	100	1
9/19/2012	5:00 PM	70.8	70.9	70.8	35	41.8	4	E	0.07	6	E	70.8	67.9	67.9	30.084	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	22	1	95.7	1
9/19/2012	5:01 PM	70.8	70.8	70.8	35	41.8	2	N	0.03	5	NNE	70.8	67.9	67.9	30.084	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	24	1	100	1
9/19/2012	5:02 PM	70.8	70.8	70.8	35	41.8	4	NNW	0.07	7	N	70.8	67.9	67.9	30.084	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	22	1	95.7	1
9/19/2012	5:03 PM	70.8	70.8	70.8	35	41.8	2	NNE	0.03	4	N	70.8	67.9	67.9	30.085	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	22	1	95.7	1
9/19/2012	5:04 PM	70.8	70.8	70.8	35	41.8	3	NE	0.05	6	E	70.8	67.9	67.9	30.086	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	23	1	100	1
9/19/2012	5:05 PM	70.7	70.8	70.7	36	42.4	2	NE	0.03	4	NE	70.7	67.9	67.9	30.087	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	23	1	100	1
9/19/2012	5:06 PM	70.7	70.7	70.7	36	42.4	1	NE	0.02	3	NNE	70.7	67.9	67.9	30.085	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	23	1	100	1
9/19/2012	5:07 PM	70.6	70.7	70.6	35	41.6	3	NNE	0.05	5	NNE	70.6	67.7	67.7	30.085	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	22	1	95.7	1
9/19/2012	5:08 PM	70.6	70.6	70.6	36	42.3	3	NNW	0.05	5	N	70.6	67.8	67.8	30.084	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	24	1	100	1
9/19/2012	5:09 PM	70.6	70.6	70.6	37	43.1	2	NNW	0.03	3	NNW	70.6	67.8	67.8	30.083	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	22	1	95.7	1
9/19/2012	5:10 PM	70.7	70.7	70.6	37	43.1	2	E	0.03	5	E	70.7	68	68	30.085	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	23	1	100	1
9/19/2012	5:11 PM	70.7	70.7	70.7	35	41.7	1	ENE	0.02	2	NE	70.7	67.8	67.8	30.084	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	23	1	100	1
9/19/2012	5:12 PM	70.6	70.7	70.6	36	42.3	2	ENE	0.03	4	ENE	70.6	67.8	67.8	30.083	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	23	1	100	1
9/19/2012	5:13 PM	70.6	70.6	70.6	36	42.3	3	ENE	0.05	5	ENE	70.6	67.8	67.8	30.083	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	24	1	100	1
9/19/2012	5:14 PM	70.5	70.6	70.5	36	42.2	3	ENE	0.05	7	ENE	70.5	67.6	67.6	30.085	0	0	0	0.004	73.6	41	48.4	72.6	7.81	0.074	23	1	100	1
9/19/2012	5:15 PM	70.4	70.5	70.4	36	42.2	3	ENE	0.05	7	NW	70.4	67.5	67.5	30.088	0	0	0	0.004	73.6	41	48.4	72.6	7.81	0.074	23	1	100	1
9/19/2012	5:16 PM	70.4	70.4	70.4	36	42.2	3	NNW	0.05	6	NNW	70.4	67.5	67.5	30.087	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	24	1	100	1
9/19/2012	5:17 PM	70.5	70.5	70.4	36	42.2	2	NNW	0.03	5	NNW	70.5	67.6	67.6	30.086	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	23	1	100	1
9/19/2012	5:18 PM	70.5	70.5	70.4	37	43	1	NNW	0.02	3	NW	70.5	67.7	67.7	30.087	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	24	1	100	1
9/19/2012	5:19 PM	70.5	70.5	70.5	36	42.2	1	NW	0.02	3	NNW	70.5	67.6	67.6	30.087	0	0	0	0.004	73.3	41	48.2	72.2	7.82	0.074	22	1	95.7	1
9/19/2012	5:20 PM	70.6	70.6	70.5	36	42.3	1	NNW	0.02	2	NNW	70.6	67.8	67.8	30.087	0	0	0	0.004	73.3	42	48.8	72.3	7.98	0.074	23	1	100	1
9/19/2012	5:21 PM	70.7	70.7	70.6	37	43.1	2	NNE	0.03	5	E	70.7	68	68	30.087	0	0	0	0.004	73.3	42	48.8	72.3	7.98	0.074	23	1	100	1
9/19/2012	5:22 PM	70.7	70.7	70.7	37	43.1	4	ENE	0.07	6	NNW	70.7	68	68	30.087	0	0	0	0.004	73.1	42	48.6	72	7.99	0.074	23	1	100	1
9/19/2012	5:23 PM	70.8	70.8	70.7	37	43.2	4	E	0.07	6	E	70.8	68.1	68.1	30.088	0	0	0	0.004	73.1	42	48.6	72	7.99	0.074	24	1	100	1
9/19/2012	5:24 PM	70.8	70.8	70.8	38	43.9	3	E	0.05	7	NE	70.8	68.2	68.2	30.088	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	23	1	100	1
9/19/2012	5:25 PM	70.7	70.8	70.7	37	43.1	5	ENE	0.08	7	NE	70.7	68	68	30.089	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	24	1	100	1
9/19/2012	5:26 PM	70.6	70.7	70.6	38	43.7	2	ENE	0.03	5	NE	70.6	67.9	67.9	30.089	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	23	1	100	1
9/19/2012	5:27 PM	70.5	70.6	70.5	37	43	4	NE	0.07	6	NE	70.5	67.7	67.7	30.09	0	0	0	0.004	72.8	42	48.4	71.5	7.99	0.0741	23	1	100	1
9/19/2012	5:28 PM	70.4	70.5	70.4	37	42.9	4	NE	0.07	6	NE	70.4	67.6	67.6	30.093	0	0	0	0.004	72.8	42	48.4	71.5	7.99	0.0741	24	1	100	1
9/19/2012	5:29 PM	70.3	70.4	70.3	37	42.8	2	NE	0.03	4	NE	70.3	67.5	67.5	30.092	0	0	0	0.004	72.6	42	48.2	71.2	8	0.0741	23	1	100	1
9/19/2012	5:30 PM	70.2	70.3	70.2	38	43.4	4	NE	0.07	9	NNE	70.2	67.4	67.4	30.091	0	0	0	0.004	72.6	42	48.2	71.2	8	0.0741	24	1	100	1
9/19/2012	5:31 PM	70.2	70.2	70.2	36	42	1	NNE	0.02	3	NNE	70.2	67.2	67.2	30.092	0	0	0	0.004	72.4	42	48	70.9	8	0.0742	23	1	100	1
9/19/2012	5:32 PM	70.1	70.1	70.1	36	41.9	2	NNE	0.03	4	NNE	70.1	67.1	67.1	30.091	0	0	0	0.004	72.4	42	48	70.9	8	0.0742	23	1	100	1
9/19/2012	5:33 PM	70	70.1	70	37	42.5	1	NE	0.02	3	ENE	70	67.1	67.1	30.088	0	0	0	0.003	72.4	42	48	70.9	8	0.0742	24	1	100	1
9/19/2012	5:34 PM	70.1	70.1	70	39	44	2	NE	0.03	4	NNW	70.1	67.3	67.3	30.088	0	0	0	0.004	72.3	42	47.9	70.8	8	0.0742	23	1	100	1
9/19/2012	5:35 PM	70	70.1	70	38	43.2	1	NNW	0.02	4	NNW	70	67.1	67.1	30.089	0	0	0	0.003	72.3	42	47.9	70.8	8	0.0742	23	1	100	1
9/19/2012	5:36 PM	70	70	70	37	42.5	2	NNE	0.03	3	NNE	70	67.1	67.1	30.09	0	0	0	0.003	72.1	42	47.7	70.5	8.01	0.0742	23	1	100	1
9/19/2012	5:37 PM	70	70	70	37	42.5	4	NE	0.07	6	N	70	67.1	67.1	30.091	0	0	0	0.003	72.1	42	47.7	70.5	8.01	0.0742	24	1	100	1
9/19/2012	5:38 PM	70	70	70	37	42.5	4	E	0.07	6	E	70	67.1	67.1	30.093	0	0	0	0.003	71.9	42	47.6	70.1	8.01	0.0743	23	1	100	1
9/19/2012	5:39 PM	69.9	70	69.9	38	43.1	4	ENE	0.07	7	ENE	69.9	67.1	67.1	30.092	0	0	0	0.003	71.9	42	47.6	70.1	8.01	0.0743	23	1	100	1
9/19/2012	5:40 PM	69.9	69.9	69.9	38	43.1	3	NE	0.05	5	NE	69.9	67.1	67.1	30.092	0	0	0	0.003	71.8	43	48.1	70.1	8.18	0.0743	23	1	100	1
9/19/2012	5:41 PM	69.9	69.9	69.9	38	43.1	3	NE	0.05	4	NE	69.9	67.1	67.1	30.093	0	0	0	0.003	71.8	43	48.1	70.1	8.18	0.0743	23	1	100	1
9/19/2012	5:42 PM	69.9	69.9	69.8	38	43.1	1	NE	0.02	2	NE	69.9	67.1	67.1	30.095	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	24	1	100	1
9/19/2012	5:43 PM	69.8	69.8	69.8	37	42.3	1	NE	0.02	4	N	69.8	66.9	66.9	30.094	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	23	1	100	1
9/19/2012	5:44 PM	69.8	69.8	69.8	38	43	3	NNE	0.05	6	NNE	69.8	67	67	30.094	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	23	1	100	1
9/19/2012	5:45 PM	69.8	69.8	69.8	38	43	4	E	0.07	8	N	69.8	67	67	30.095	0	0	0	0.003	71.4	43	47.7	69.5	8.19	0.0743	24	1	100	1
9/19/2012	5:46 PM	69.9	69.9	69.8	38	43.1	3	ENE	0.05	6	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.4	43	47.7	69.5	8.19	0.0743	23	1	100	1
9/19/2012	5:47 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	8	NNE	69.9	67.1	67.1	30.095	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	24	1	100	1
9/19/2012	5:48 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	5	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:49 PM	69.9	69.9	69.9	39	43.8	6	NE	0.1	8	N	69.9	67.1	67.1	30.098	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:50 PM	69.8	69.9	69.8	38	43	5	ENE	0.08	8	NE	69.8	67	67	30.096	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	22	1	95.7	1
9/19/2012	5:51 PM	69.7	69.8	69.7	39	43.6	4	E	0.07	7	ENE	69.7	67	67	30.098	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	23	1	100	1
9/19/2012	5:52 PM	69.6	69.7	69.6	39	43.5	3	ENE	0.05	7	ENE	69.6	66.9	66.9	30.098	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:53 PM	69.6	69.7	69.6	39	43.5	4	ENE	0.07	7	ENE	69.6	66.9	66.9	30.097	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:54 PM	69.6	69.6	69.6	39	43.5	4	NNE	0.07	5	NE	69.6	66.9	66.9	30.099	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:55 PM	69.6	69.6	69.6	39	43.5	2	NNE	0.03	4	NNE	69.6	66.9	66.9	30.099	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	23	1	100	1
9/19/2012	5:56 PM	69.6	69.6	69.6	39	43.5	2	WNW	0.03	4	WNW	69.6	66.9	66.9	30.098	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	21	1	91.3	1
9/19/2012	5:57 PM	69.6	69.6	69.6	38	42.9	0	WSW	0	2	WSW	69.6	66.8	66.8	30.098	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	23	1	100	1
9/19/2012	5:58 PM	69.7	69.7	69.6	39	43.6

Meteorological Data
Equity IRM

9/19/2012	7:18 PM	67.4	67.5	67.4	43	44.1	2	NE	0.03	4	NE	67.4	65.3	65.3	30.123	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:19 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	6	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/19/2012	7:20 PM	67.4	67.4	67.4	43	44.1	5	E	0.08	8	E	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:21 PM	67.5	67.5	67.4	43	44.2	3	ENE	0.05	5	ENE	67.5	65.4	65.4	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:22 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	22	1	95.7	1
9/19/2012	7:23 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.123	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:24 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:25 PM	67.4	67.4	67.4	43	44.1	2	NE	0.03	4	ENE	67.4	65.3	65.3	30.122	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:26 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	5	E	67.4	65.3	65.3	30.123	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:27 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	4	ENE	67.4	65.3	65.3	30.125	0	0	0	0.002	64.6	48	44.5	62.7	8.97	0.0755	23	1	100	1
9/19/2012	7:28 PM	67.4	67.4	67.4	43	44.1	2	ENE	0.03	3	ENE	67.4	65.3	65.3	30.125	0	0	0	0.002	64.6	48	44.5	62.7	8.97	0.0755	23	1	100	1
9/19/2012	7:29 PM	67.3	67.4	67.3	43	44	3	NE	0.05	5	NE	67.3	65.2	65.2	30.127	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	22	1	95.7	1
9/19/2012	7:30 PM	67.3	67.4	67.3	43	44	2	NE	0.03	4	NE	67.3	65.2	65.2	30.127	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	23	1	100	1
9/19/2012	7:31 PM	67.3	67.3	67.3	43	44	2	E	0.03	5	E	67.3	65.2	65.2	30.126	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	23	1	100	1
9/19/2012	7:32 PM	67.3	67.3	67.3	43	44	4	NE	0.07	8	N	67.3	65.2	65.2	30.126	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	22	1	95.7	1
9/19/2012	7:33 PM	67.2	67.3	67.2	43	43.9	3	ENE	0.05	7	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	24	1	100	1
9/19/2012	7:34 PM	67.2	67.3	67.2	43	43.9	2	E	0.03	5	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	21	1	91.3	1
9/19/2012	7:35 PM	67.2	67.2	67.2	43	43.9	2	E	0.03	3	E	67.2	65.1	65.1	30.127	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	23	1	100	1
9/19/2012	7:36 PM	67.2	67.2	67.2	44	44.5	2	E	0.03	5	E	67.2	65.2	65.2	30.129	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	22	1	95.7	1
9/19/2012	7:37 PM	67.2	67.2	67.2	43	43.9	4	E	0.07	6	E	67.2	65.1	65.1	30.127	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:38 PM	67.2	67.2	67.2	43	43.9	3	E	0.05	5	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:39 PM	67.2	67.2	67.2	43	43.9	3	E	0.05	9	N	67.2	65.1	65.1	30.127	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:40 PM	67.2	67.2	67.2	43	43.9	3	NE	0.05	5	NE	67.2	65.1	65.1	30.127	0	0	0	0.002	64	48	43.9	62	8.99	0.0756	22	1	95.7	1
9/19/2012	7:41 PM	67.1	67.1	67.1	43	43.8	4	ENE	0.07	6	E	67.1	65	65	30.126	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	22	1	95.7	1
9/19/2012	7:42 PM	67.1	67.2	67.1	43	43.8	3	E	0.05	6	E	67.1	65	65	30.125	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/19/2012	7:43 PM	67.1	67.1	67.1	43	43.8	3	NE	0.05	4	NE	67.1	65	65	30.124	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/19/2012	7:44 PM	67	67.1	67	44	44.4	2	ENE	0.03	3	ENE	67	65	65	30.125	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:45 PM	67	67	67	43	43.8	3	ENE	0.05	6	NE	67	64.9	64.9	30.127	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:46 PM	67	67	67	43	43.8	4	NE	0.07	6	NE	67	64.9	64.9	30.126	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:47 PM	66.9	67	66.9	43	43.7	3	E	0.05	5	NNE	66.9	64.7	64.7	30.126	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0756	24	1	100	1
9/19/2012	7:48 PM	66.9	66.9	66.9	43	43.7	3	E	0.05	6	E	66.9	64.7	64.7	30.127	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0756	23	1	100	1
9/19/2012	7:49 PM	66.9	66.9	66.9	42	43	4	ENE	0.07	7	ENE	66.9	64.6	64.6	30.128	0	0	0	0.001	63.6	49	44.1	61.7	9.21	0.0756	23	1	100	1
9/19/2012	7:50 PM	66.8	66.9	66.8	43	43.6	3	ENE	0.05	5	ENE	66.8	64.6	64.6	30.128	0	0	0	0.001	63.6	49	44.1	61.7	9.21	0.0756	24	1	100	1
9/19/2012	7:51 PM	66.8	66.9	66.8	43	43.6	3	ENE	0.05	5	ENE	66.8	64.6	64.6	30.129	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	22	1	95.7	1
9/19/2012	7:52 PM	66.8	66.8	66.8	43	43.6	3	NE	0.05	4	ENE	66.8	64.6	64.6	30.129	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	24	1	100	1
9/19/2012	7:53 PM	66.7	66.8	66.7	43	43.5	4	NE	0.07	7	NE	66.7	64.5	64.5	30.13	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	22	1	95.7	1
9/19/2012	7:54 PM	66.7	66.7	66.7	43	43.5	2	ENE	0.03	4	NE	66.7	64.5	64.5	30.13	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	23	1	100	1
9/19/2012	7:55 PM	66.7	66.7	66.7	43	43.5	3	ENE	0.05	5	ENE	66.7	64.5	64.5	30.128	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	22	1	95.7	1
9/19/2012	7:56 PM	66.6	66.7	66.6	43	43.4	3	E	0.05	7	NNE	66.6	64.4	64.4	30.129	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	23	1	100	1
9/19/2012	7:57 PM	66.6	66.6	66.6	43	43.4	4	ENE	0.07	7	NE	66.6	64.4	64.4	30.128	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	24	1	100	1
9/19/2012	7:58 PM	66.6	66.6	66.6	42	42.8	3	NNE	0.05	6	NE	66.6	64.3	64.3	30.13	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	22	1	95.7	1
9/19/2012	7:59 PM	66.6	66.6	66.6	42	42.8	3	ENE	0.05	5	NE	66.6	64.3	64.3	30.131	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	24	1	100	1
9/19/2012	8:00 PM	66.6	66.6	66.6	43	43.4	1	ENE	0.02	4	ENE	66.6	64.4	64.4	30.131	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	22	1	95.7	1
9/19/2012	8:01 PM	66.5	66.6	66.5	43	43.3	2	NE	0.03	4	NE	66.5	64.3	64.3	30.131	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	23	1	100	1
9/19/2012	8:02 PM	66.5	66.5	66.5	42	42.7	3	N	0.05	7	N	66.5	64.2	64.2	30.133	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	24	1	100	1
9/19/2012	8:03 PM	66.5	66.5	66.5	42	42.7	3	NE	0.05	5	N	66.5	64.2	64.2	30.134	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	22	1	95.7	1
9/19/2012	8:04 PM	66.5	66.5	66.4	42	42.7	4	NE	0.07	7	ENE	66.5	64.2	64.2	30.135	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	24	1	100	1
9/19/2012	8:05 PM	66.4	66.5	66.4	42	42.6	2	NE	0.03	6	E	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:06 PM	66.4	66.5	66.4	42	42.6	3	ENE	0.05	6	NNW	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:07 PM	66.4	66.4	66.4	42	42.6	4	NE	0.07	6	NNE	66.4	64.1	64.1	30.137	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	24	1	100	1
9/19/2012	8:08 PM	66.4	66.4	66.4	42	42.6	3	NE	0.05	5	NE	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:09 PM	66.4	66.4	66.4	42	42.6	3	ENE	0.05	5	ENE	66.4	64.1	64.1	30.137	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	24	1	100	1
9/19/2012	8:10 PM	66.4	66.4	66.4	42	42.6	3	E	0.05	6	E	66.4	64.1	64.1	30.137	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	23	1	100	1
9/19/2012	8:11 PM	66.4	66.4	66.4	42	42.6	4	NE	0.07	5	E	66.4	64.1	64.1	30.139	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	22	1	95.7	1
9/19/2012	8:12 PM	66.4	66.4	66.4	42	42.6	3	NE	0.05	5	NNE	66.4	64.1	64.1	30.139	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	24	1	100	1
9/19/2012	8:13 PM	66.4	66.4	66.4	42	42.6	4	N	0.07	7	N	66.4	64.1	64.1	30.14	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	23	1	100	1
9/19/2012	8:14 PM	66.3	66.4	66.3	42	42.5	4	ENE	0.07	7	ENE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	24	1	100	1
9/19/2012	8:15 PM	66.3	66.3	66.3	42	42.5	3	NE	0.05	5	NNE	66.3	63.9	63.9	30.142	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	23	1	100	1
9/19/2012	8:16 PM	66.3	66.3	66.3	42	42.5	3	NE	0.05	5	NE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	24	1	100	1
9/19/2012	8:17 PM	66.3	66.3	66.3	42	42.5	4	ENE	0.07	7	ENE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	23	1	100	1
9/19/2012	8:18 PM	66.4	66.4	66.3	42	42.6	4	E	0.07	6	E	66.4	64.1	64.1	30.141	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	23	1	100	1
9/19/2012	8:19 PM	66.3	66.4	66.3	43	43.1	3	NNW	0.05	6	NW	66.3	64	64	30.141	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	24	1	100	1
9/19/2012	8:20 PM	66.3	66.3	66.3	43	43.1	4	NNW	0.07	7	N	66.3	64	64	30.139	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0758	23	1	100	1
9/19/2012	8:21 PM	66.3	66.3	66.3	43	43.1	3	N	0.05	5	NW	66.3	64	64	30.139	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0758	23	1	100	1
9/19/2012	8:22 PM	66.2	66.3	66.2	43	43	2	N	0.03	4	N	66.2	63.9	63.9	30.139	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/19/2012	8:23 PM	66.1	66.2	66.1	43	42.9	2	NNE	0.03	4	NNE	66.1	63.8	63.8	30.138	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/19/2012	8:24 PM	66.1	66.1	66.1	43	42.9	1	NNE	0.02	3	NNE	66.1	63.8	63.8	30.138	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	22	1	95.7	1
9/19/2012	8:25 PM	66	66.1	66	43	42.9	2	NNE	0.03	3	NNE	66	63.7	63.7	30.138	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	23	1	100	1
9/19/2012	8:26 PM	65.9	66	65.9	43	42.8	3	NE	0.05	5	NNW	65.9	63.6	63.6	30.139	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	23	1	100	1
9/19/2012	8:27 PM	65.9	65.9	65.9	43	42.8	2	NE	0.03	5	NE	65.9	63.6	63.6	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	22	1	95.7	1
9/19/2012	8:28 PM	65.9	65.9	65.9	43	42.8	4	NE	0.07	6	NNW	65.9	63.6	63.6	30.143	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	22	1	95.7	1
9/19/2012	8:29 PM	65.9	65.9	65.9	43	42.8	2	NE	0.03	4	NE	65.9	63.6	63.6	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	23	1	100	1
9/19/2012	8:30 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	3	NE	65.9	63.7	63.7	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	21	1	91.3	1
9/19/2012	8:31 PM	65.9	65.9	65.9	44	43.4	1	NE	0.02	3	NE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	24	1	100	1
9/19/2012	8:32 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	3	NE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	22	1	95.7	1
9/19/2012	8:33 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	4	ENE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	23	1	100	1
9/19/2012	8:34 PM	65.9	65.9	65.8	43	42.8	3	E	0.05	6	E	65.9	63.6	63.6	30.142	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	23	1	100	1
9/19/2012	8:35 PM	65.9	65.9	65.8	44	43.4	2	ENE	0.03	4	NE	65.9	63.7	63.7	30.145	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	22	1	95.7	1
9/19/2012	8:36 PM	65.9	65.9	65.9	43	42.8	2	E	0.03	4	ENE	65.9	63.6	63.6	30.142	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	24	1	100	1
9/19/2012	8:37 PM	65.9	65.9	65.9	43	42.8	2	ENE	0.03	4	N	65.9	63.6	63.6	30.141	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	20	1	87	1
9/19/2012	8:38 PM	65.9	65.9	65.9	43	42.8	3	NNE	0.05	5	N	65.9	63.6	63.6	30.141	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	24	1	100	1
9/19/2012	8:39 PM	65.9	65.9	65.9	44	43.4	3	NNE	0.05	5	NNE	65.9	63.7	63.7	30.141	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	22	1	95.7	1
9/19/2012	8:40 PM	65.8	65.9	65.8	44	43.3	2	NNE	0.03	5	NNE	65.8	63.6	63.6	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	24	1	100	1
9/19/2012	8:41 PM	65.8	65.8	65.8	43	42.7	1	NNE	0.02	3	NNE	65.8	63.5	63.5	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	22	1	95.7	1
9/19/2012	8:42 PM	65.8	65.8	65.8	44	43.3	2	NE	0.03	4	NE	65.8	63.6	63.6	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	23	1	100	1
9/19/2012	8:43 PM	65.8	65.8	65.8	44	43.3	3	NE	0.05	8	ENE	65.8	63.6	63.6	30.144	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	23	1	100	1
9/19/2012	8:44 PM	65.8	65.8	65.8	43	42.7	4	ENE	0.07	8	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:45 PM	65.8	65.8	65.8	43	42.7	3	ENE	0.05	5	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:46 PM	65.8	65.8	65.8	43	42.7	2	ENE	0.03	3	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:47 PM	65.8	65.8	65.8	43	42.7	3	ENE	0.05	7	ENE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:48 PM	65.8	65.9	65.8	44	43.3	3	NNE	0.05	4	NNE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:49 PM	65.8	65.9	65.8	44	43.3	2	NE	0.03	4	NE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:50 PM	65.8	65.8	65.8	44	43.3	3	NE	0.05	5	NNE	65.8	63.6	63.6	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:51 PM	65.7	65.8	65.7	44	43.2	4	ENE	0.07	5	NE	65.7	63.5	63.5	30.148	0	0	0	0	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:52 PM	65.8	65.8	65.7	43	42.7	3	NE	0.05	5	NNE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:53 PM	65.7	65.8	65.7	43	42.6	3	NE	0.05	9	N	65.7	63.4	63.4	30.147	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	23	1	100	1
9/19/2012	8:54 PM	65.8	65.8	65.7	43	42.7	3	NE	0.05	4	NNE	65.8	63.5	63.5	30.149	0	0	0	0.001	61.3	50	42.5	59.3	9.42	0.0761	22	1	95.7	1
9/19/2012	8:55 PM	65.8	65.8	65.7	43	42.7	2	NNE	0.03	5	N	65.8	63.5	63.5	30.15	0	0	0	0.001	61.3	50	42.5	59.3	9.42	0.0761	24	1	100	1
9/19/2012	8:56 PM	65.7	65.8	65.7	43	42.6	3	NNE	0.05	4	NNE	65.7	63.4	63.4	30.151	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	22	1	95.7	1
9/19/2012	8:57 PM	65.7	65.8	65.7	44	43.2	3	NNE	0.05	4	NE	65.7	63.5	63.5	30.152	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	24	1	100

Meteorological Data
Equity IRM

9/19/2012	10:18 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:19 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:20 PM	64.5	64.5	64.4	52	46.5	1	ENE	0.02	2	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:21 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	4	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:22 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	3	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	24	1	100	1
9/19/2012	10:23 PM	64.4	64.5	64.4	52	46.4	3	ENE	0.05	5	E	64.4	62.8	62.8	30.172	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:24 PM	64.4	64.4	64.4	52	46.4	3	ENE	0.05	4	ENE	64.4	62.8	62.8	30.172	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:25 PM	64.4	64.4	64.4	52	46.4	2	ENE	0.03	4	ENE	64.4	62.8	62.8	30.171	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:26 PM	64.4	64.4	64.4	53	46.9	1	ENE	0.02	2	ENE	64.4	62.9	62.9	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:27 PM	64.4	64.4	64.4	53	46.9	1	ENE	0.02	2	ENE	64.4	62.9	62.9	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:28 PM	64.3	64.4	64.3	53	46.8	1	ENE	0.02	3	ENE	64.3	62.8	62.8	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:29 PM	64.3	64.3	64.3	53	46.8	2	ENE	0.03	4	ENE	64.3	62.8	62.8	30.17	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:30 PM	64.2	64.3	64.2	53	46.7	3	ENE	0.05	4	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:31 PM	64.2	64.3	64.2	53	46.7	2	ENE	0.03	7	ENE	64.2	62.7	62.7	30.172	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:32 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	4	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:33 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	3	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:34 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	4	ENE	64.2	62.7	62.7	30.171	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:35 PM	64.1	64.2	64.1	53	46.6	2	ENE	0.03	7	ENE	64.1	62.6	62.6	30.172	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:36 PM	64.1	64.2	64.1	54	47.1	1	ENE	0.02	2	ENE	64.1	62.7	62.7	30.173	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:37 PM	64.1	64.2	64.1	54	47.1	2	ENE	0.03	4	ENE	64.1	62.7	62.7	30.174	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	22	1	95.7	1
9/19/2012	10:38 PM	64.1	64.1	64.1	53	46.6	2	ENE	0.03	3	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:39 PM	64.1	64.1	64.1	53	46.6	3	ENE	0.05	4	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:40 PM	64.1	64.1	64.1	53	46.6	2	ENE	0.03	3	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:41 PM	64.1	64.1	64.1	54	47.1	1	ENE	0.02	2	ENE	64.1	62.7	62.7	30.173	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:42 PM	64	64.1	64	53	46.5	2	ENE	0.03	3	ENE	64	62.5	62.5	30.172	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:43 PM	64	64.1	64	54	47	1	ENE	0.02	3	ENE	64	62.6	62.6	30.171	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:44 PM	64	64	64	54	47	2	ENE	0.03	3	ENE	64	62.6	62.6	30.171	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:45 PM	64	64	64	54	47	2	ENE	0.03	3	ENE	64	62.6	62.6	30.173	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:46 PM	64	64	64	54	47	1	ENE	0.02	3	ENE	64	62.6	62.6	30.176	0	0	0.001	0	58.5	53	41.4	56.7	9.95	0.0766	24	1	100	1
9/19/2012	10:47 PM	63.9	64	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.177	0	0	0.001	0	58.5	53	41.4	56.7	9.95	0.0766	23	1	100	1
9/19/2012	10:48 PM	63.9	63.9	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.179	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	24	1	100	1
9/19/2012	10:49 PM	63.9	63.9	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	23	1	100	1
9/19/2012	10:50 PM	63.9	63.9	63.9	54	46.9	3	ENE	0.05	5	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	23	1	100	1
9/19/2012	10:51 PM	63.9	63.9	63.8	54	46.9	2	ENE	0.03	3	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	24	1	100	1
9/19/2012	10:52 PM	63.9	63.9	63.9	55	47.4	1	ENE	0.02	2	ENE	63.9	62.6	62.6	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:53 PM	63.8	63.9	63.8	55	47.3	2	ENE	0.03	5	ENE	63.8	62.5	62.5	30.176	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	24	1	100	1
9/19/2012	10:54 PM	63.8	63.8	63.8	55	47.3	1	ENE	0.02	2	ENE	63.8	62.5	62.5	30.176	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:55 PM	63.8	63.8	63.8	55	47.3	2	ENE	0.03	4	ENE	63.8	62.5	62.5	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	24	1	100	1
9/19/2012	10:56 PM	63.7	63.8	63.7	55	47.2	3	ENE	0.05	5	ENE	63.7	62.4	62.4	30.177	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:57 PM	63.7	63.7	63.7	55	47.2	2	ENE	0.03	3	ENE	63.7	62.4	62.4	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:58 PM	63.7	63.7	63.7	56	47.7	1	ENE	0.02	3	ENE	63.7	62.4	62.4	30.18	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	10:59 PM	63.7	63.7	63.6	55	47.2	3	ENE	0.05	4	ENE	63.7	62.4	62.4	30.181	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	23	1	100	1
9/19/2012	11:00 PM	63.6	63.6	63.6	55	47.1	3	ENE	0.05	5	ENE	63.6	62.3	62.3	30.181	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	11:01 PM	63.6	63.6	63.6	55	47.1	3	ENE	0.05	4	ENE	63.6	62.3	62.3	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	23	1	100	1
9/19/2012	11:02 PM	63.6	63.6	63.6	55	47.1	2	ENE	0.03	3	ENE	63.6	62.3	62.3	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	22	1	95.7	1
9/19/2012	11:03 PM	63.5	63.6	63.5	55	47	4	E	0.07	7	E	63.5	62.2	62.2	30.183	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	11:04 PM	63.5	63.5	63.5	55	47	2	E	0.03	3	E	63.5	62.2	62.2	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	22	1	95.7	1
9/19/2012	11:05 PM	63.4	63.5	63.4	55	46.9	3	E	0.05	5	E	63.4	62	62	30.182	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:06 PM	63.4	63.5	63.4	55	46.9	3	E	0.05	5	E	63.4	62	62	30.184	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	21	1	91.3	1
9/19/2012	11:07 PM	63.4	63.4	63.4	55	46.9	5	ENE	0.08	9	ENE	63.4	62	62	30.184	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:08 PM	63.4	63.4	63.4	55	46.9	5	ENE	0.08	9	ENE	63.4	62	62	30.186	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0767	22	1	95.7	1
9/19/2012	11:09 PM	63.3	63.4	63.3	55	46.9	3	ENE	0.05	7	ENE	63.3	61.9	61.9	30.186	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0767	22	1	95.7	1
9/19/2012	11:10 PM	63.2	63.3	63.2	55	46.8	4	ENE	0.07	5	ENE	63.2	61.8	61.8	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:11 PM	63.2	63.3	63.2	56	47.2	3	E	0.05	7	ENE	63.2	61.9	61.9	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	22	1	95.7	1
9/19/2012	11:12 PM	63.2	63.2	63.2	56	47.2	3	ENE	0.05	5	ENE	63.2	61.9	61.9	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:13 PM	63.1	63.2	63.1	56	47.1	2	ENE	0.03	4	ENE	63.1	61.8	61.8	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	22	1	95.7	1
9/19/2012	11:14 PM	63.1	63.1	63.1	56	47.1	2	ENE	0.03	3	ENE	63.1	61.8	61.8	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:15 PM	63.1	63.1	63.1	56	47.1	1	E	0.02	3	ENE	63.1	61.8	61.8	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:16 PM	63	63.1	63	56	47.1	1	E	0.02	3	E	63	61.7	61.7	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:17 PM	63	63	63	56	47.1	3	E	0.05	6	E	63	61.7	61.7	30.187	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:18 PM	63	63	63	56	47.1	1	E	0.02	3	E	63	61.7	61.7	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:19 PM	62.9	63	62.9	57	47.4	1	E	0.02	3	E	62.9	61.6	61.6	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:20 PM	62.9	62.9	62.9	57	47.4	2	E	0.03	3	E	62.9	61.6	61.6	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:21 PM	62.9	62.9	62.9	57	47.4	3	E	0.05	5	E	62.9	61.6	61.6	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:22 PM	62.9	62.9	62.9	57	47.4	4	ENE	0.07	7	NE	62.9	61.6	61.6	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:23 PM	62.8	62.9	62.8	57	47.3	3	E	0.05	6	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:24 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:25 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:26 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:27 PM	62.8	62.8	62.8	57	47.3	1	E	0.02	3	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:28 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:29 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:30 PM	62.8	62.8	62.8	57	47.3	3	E	0.05	5	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:31 PM	62.8	62.8	62.8	57	47.3	4	E	0.07	6	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:32 PM	62.8	62.8	62.7	57	47.3	3	E	0.05	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:33 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:34 PM	62.7	62.8	62.7	57	47.2	4	E	0.07	6	E	62.7	61.4	61.4	30.182	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:35 PM	62.8	62.8	62.7	57	47.3	3	E	0.05	6	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:36 PM	62.7	62.7	62.7	57	47.2	3	E	0.05	6	E	62.7	61.4	61.4	30.183	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:37 PM	62.7	62.7	62.7	57	47.2	6	E	0.1	7	E	62.7	61.4	61.4	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:38 PM	62.7	62.7	62.7	57	47.2	3	E	0.05	7	ENE	62.7	61.4	61.4	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:39 PM	62.7	62.7	62.7	57	47.2	2	ENE	0.03	3	ENE	62.7	61.4	61.4	30.187	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:40 PM	62.7	62.7	62.7	57	47.2	3	ENE	0.05	6	E	62.7	61.4	61.4	30.186	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	22	1	95.7	1
9/19/2012	11:41 PM	62.7	62.7	62.7	57	47.2	2	E	0.03	3	E	62.7	61.4	61.4	30.187	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:42 PM	62.7	62.7	62.7	58	47.7	3	E	0.05	5	E	62.7	61.5	61.5	30.186	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:43 PM	62.7	62.7	62.7	57	47.2	4	ENE	0.07	5	ENE	62.7	61.4	61.4	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:44 PM	62.7	62.7	62.6	57	47.2	5	ENE	0.08	7	ENE	62.7	61.4	61.4	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:45 PM	62.7	62.7	62.7	57	47.2	4	E	0.07	6	E	62.7	61.4	61.4	30.186	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:46 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:47 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	3	E	62.6	61.3	61.3	30.184	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:48 PM	62.6	62.6	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:49 PM	62.6	62.6	62.6	57	47.1	4	E	0.07	6	E	62.6	61.3	61.3	30.183	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:50 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.183	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:51 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:52 PM	62.5	62.6	62.5	57	47.1	3	E	0.05	5	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:53 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	5	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:54 PM	62.5	62.5	62.5	57	47.1	3	E	0.05	5	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	22	1	95.7	1
9/19/2012	11:55 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	3	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:56 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	5	E	62.5	61.2	61.2	30.18	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:57 PM	62.4	62.5	62.4	57	47	3	E	0.05	5	E	62.4	61.1	61.1	30.18	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:58 PM	62.4	62.5	62.4	56	46.

Meteorological Data
Equity IRM

9/20/2012	1:18 AM	61.1	61.2	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.179	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:19 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:20 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.18	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:21 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:22 AM	61.1	61.1	61.1	54	44.3	1	E	0.02	2	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:23 AM	61.1	61.1	61.1	55	44.8	1	E	0.02	2	E	61.1	59.5	59.5	30.182	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:24 AM	61.1	61.1	61	55	44.8	1	E	0.02	3	E	61.1	59.5	59.5	30.178	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:25 AM	61	61	61	55	44.7	2	E	0.03	3	E	61	59.4	59.4	30.179	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:26 AM	61	61	61	54	44.2	4	E	0.07	6	E	61	59.3	59.3	30.18	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:27 AM	61	61	61	54	44.2	3	ENE	0.05	5	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:28 AM	61	61	61	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:29 AM	61	61	61	54	44.2	1	ENE	0.02	2	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:30 AM	61	61	61	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:31 AM	61	61	61	54	44.2	2	ENE	0.03	4	ENE	61	59.3	59.3	30.182	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	24	1	100	1
9/20/2012	1:32 AM	61	61	61	54	44.2	1	ENE	0.02	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:33 AM	61	61	61	54	44.2	1	ENE	0.02	3	ENE	61	59.3	59.3	30.181	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:34 AM	61	61	61	54	44.2	2	ENE	0.03	4	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:35 AM	61	61	60.9	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:36 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.178	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:37 AM	60.9	60.9	60.9	55	44.6	2	ENE	0.03	4	ENE	60.9	59.3	59.3	30.18	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:38 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.18	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:39 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:40 AM	60.9	60.9	60.8	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.18	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	22	1	95.7	1
9/20/2012	1:41 AM	60.8	60.9	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	24	1	100	1
9/20/2012	1:42 AM	60.8	60.8	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	22	1	95.7	1
9/20/2012	1:43 AM	60.8	60.8	60.8	55	44.5	2	ENE	0.03	4	ENE	60.8	59.2	59.2	30.18	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:44 AM	60.8	60.9	60.8	54	44	3	ENE	0.05	5	ENE	60.8	59.1	59.1	30.181	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:45 AM	60.8	60.8	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:46 AM	60.8	60.9	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.18	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:47 AM	60.8	60.9	60.8	55	44.5	3	ENE	0.05	3	ENE	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:48 AM	60.8	60.9	60.8	55	44.5	3	E	0.05	7	E	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:49 AM	60.8	60.8	60.8	55	44.5	2	E	0.03	5	E	60.8	59.2	59.2	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:50 AM	60.8	60.8	60.8	55	44.5	3	E	0.05	5	E	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:51 AM	60.8	60.8	60.8	55	44.5	1	E	0.02	2	E	60.8	59.2	59.2	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	21	1	91.3	1
9/20/2012	1:52 AM	60.8	60.8	60.7	55	44.5	2	E	0.03	3	E	60.8	59.2	59.2	30.184	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	22	1	95.7	1
9/20/2012	1:53 AM	60.7	60.8	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.183	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	24	1	100	1
9/20/2012	1:54 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.182	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:55 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.181	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	24	1	100	1
9/20/2012	1:56 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.182	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:57 AM	60.6	60.7	60.6	55	44.3	3	E	0.05	5	E	60.6	59	59	30.183	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:58 AM	60.5	60.6	60.5	55	44.2	2	E	0.03	3	E	60.5	58.9	58.9	30.182	0	0	0.003	0	55.2	56	39.8	53.7	10.45	0.0771	23	1	100	1
9/20/2012	1:59 AM	60.6	60.6	60.6	56	44.8	2	E	0.03	3	E	60.6	59.1	59.1	30.183	0	0	0.003	0	55.1	55	39.2	53.6	10.35	0.0771	23	1	100	1
9/20/2012	2:00 AM	60.5	60.6	60.5	56	44.7	2	E	0.03	3	E	60.5	59	59	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	24	1	100	1
9/20/2012	2:01 AM	60.5	60.5	60.5	56	44.7	1	E	0.02	2	E	60.5	59	59	30.182	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:02 AM	60.5	60.5	60.5	56	44.7	1	E	0.02	2	E	60.5	59	59	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	24	1	100	1
9/20/2012	2:03 AM	60.4	60.5	60.4	57	45.1	1	E	0.02	2	E	60.4	58.9	58.9	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:04 AM	60.4	60.4	60.4	56	44.6	2	E	0.03	3	E	60.4	58.9	58.9	30.185	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:05 AM	60.4	60.4	60.4	57	45.1	1	E	0.02	3	E	60.4	58.9	58.9	30.185	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:06 AM	60.3	60.4	60.3	57	45	1	E	0.02	2	E	60.3	58.8	58.8	30.187	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:07 AM	60.3	60.3	60.3	57	45	2	E	0.03	3	E	60.3	58.8	58.8	30.188	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	24	1	100	1
9/20/2012	2:08 AM	60.2	60.3	60.2	57	44.9	2	E	0.03	3	E	60.2	58.7	58.7	30.189	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:09 AM	60.2	60.2	60.2	57	44.9	2	ENE	0.03	3	ENE	60.2	58.7	58.7	30.187	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:10 AM	60.2	60.2	60.2	56	44.4	2	ENE	0.03	3	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	24	1	100	1
9/20/2012	2:11 AM	60.2	60.2	60.2	56	44.4	1	ENE	0.02	3	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:12 AM	60.2	60.2	60.2	57	44.9	1	ENE	0.02	2	ENE	60.2	58.7	58.7	30.187	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	24	1	100	1
9/20/2012	2:13 AM	60.2	60.2	60.2	57	44.9	1	ENE	0.02	1	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:14 AM	60.1	60.2	60.1	57	44.8	0	ENE	0	1	ENE	60.1	58.6	58.6	30.186	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:15 AM	60	60.1	60	57	44.7	1	ENE	0.02	2	ENE	60	58.5	58.5	30.187	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	24	1	100	1
9/20/2012	2:16 AM	60	60	60	57	44.7	1	ENE	0.02	4	ENE	60	58.5	58.5	30.189	0	0	0.003	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:17 AM	60	60	60	58	45.2	1	ENE	0.02	3	ENE	60	58.6	58.6	30.188	0	0	0.003	0	54.6	56	39.2	53.2	10.44	0.0772	24	1	100	1
9/20/2012	2:18 AM	59.9	60	59.9	58	45.1	0	ENE	0	2	ENE	59.9	58.5	58.5	30.186	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:19 AM	59.9	59.9	59.9	58	45.1	1	ENE	0.02	2	ENE	59.9	58.5	58.5	30.188	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	24	1	100	1
9/20/2012	2:20 AM	59.9	59.9	59.9	58	45.1	1	ENE	0.02	2	ENE	59.9	58.5	58.5	30.186	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:21 AM	59.8	59.9	59.8	58	45	1	ENE	0.02	5	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	22	1	95.7	1
9/20/2012	2:22 AM	59.8	59.8	59.8	58	45	2	ENE	0.03	3	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	24	1	100	1
9/20/2012	2:23 AM	59.7	59.8	59.7	58	44.9	2	ENE	0.03	4	ENE	59.7	58.3	58.3	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:24 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	4	ENE	59.7	58.2	58.2	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	24	1	100	1
9/20/2012	2:25 AM	59.8	59.8	59.7	57	44.5	3	ENE	0.05	7	ENE	59.8	58.3	58.3	30.185	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:26 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	4	ENE	59.8	58.3	58.3	30.184	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:27 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.186	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:28 AM	59.8	59.9	59.8	58	45	1	ENE	0.02	2	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:29 AM	59.8	59.8	59.8	58	45	2	ENE	0.03	4	ENE	59.8	58.4	58.4	30.185	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:30 AM	59.8	59.8	59.8	58	45	3	ENE	0.05	4	ENE	59.8	58.4	58.4	30.184	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:31 AM	59.8	59.8	59.8	57	44.5	3	ENE	0.05	4	ENE	59.8	58.3	58.3	30.185	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:32 AM	59.8	59.8	59.8	57	44.5	3	ENE	0.05	4	ENE	59.8	58.3	58.3	30.184	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:33 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:34 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:35 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	4	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:36 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	3	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	24	1	100	1
9/20/2012	2:37 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:38 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:39 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:40 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:41 AM	59.7	59.7	59.7	58	44.9	3	ENE	0.05	4	ENE	59.7	58.3	58.3	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:42 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	3	ENE	59.7	58.2	58.2	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:43 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	3	ENE	59.7	58.2	58.2	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:44 AM	59.7	59.7	59.7	57	44.4	1	ENE	0.02	2	ENE	59.7	58.2	58.2	30.185	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:45 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:46 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	3	ENE	59.7	58.3	58.3	30.185	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:47 AM	59.7	59.7	59.6	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:48 AM	59.6	59.7	59.6	58	44.8	1	ENE	0.02	2	ENE	59.6	58.2	58.2	30.184	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:49 AM	59.6	59.6	59.6	58	44.8	1	ENE	0.02	3	ENE	59.6	58.2	58.2	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:50 AM	59.5	59.6	59.5	59	45.2	0	ENE	0	1	ENE	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:51 AM	59.5	59.6	59.5	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:52 AM	59.4	59.5	59.4	60	45.5	0	ENE	0	1	ENE	59.4	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:53 AM	59.3	59.4	59.3	60	45.4	1	ENE	0.02	2	ENE	59.3	58	58	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:54 AM	59.2	59.3	59.2	60	45.3	1	ENE	0.02	3	ENE	59.2	57.9	57.9	30.182	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	23	1	100	1
9/20/2012	2:55 AM	59.1	59.2	59.1	60	45.2	2	ENE	0.03	3	ENE	59.1	57.8	57.8	30.182	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	24	1	100	1
9/20/2012	2:56 AM	59.1	59.1	59.1	60	45.2	2	ENE	0.03	4	ENE	59.1	57.8	57.8	30.183	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	23	1	100	1
9/20/2012	2:57 AM	59.1	59.1	59.1	61	45.7	0	ENE	0	1	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	22	1	95.7	1
9/20/2012	2:58 AM	59	59.1

Meteorological Data
Equity IRM

9/20/2012	4:18 AM	58.8	58.9	58.8	62	45.8	2	E	0.03	5	E	58.8	57.6	57.6	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:19 AM	58.9	58.9	58.9	61	45.5	4	E	0.07	8	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:20 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:21 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:22 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:23 AM	58.9	58.9	58.9	61	45.5	4	ENE	0.07	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:24 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:25 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:26 AM	58.9	58.9	58.9	61	45.5	1	ENE	0.02	2	ENE	58.9	57.7	57.7	30.181	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:27 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	3	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:28 AM	58.8	58.9	58.8	61	45.4	3	ENE	0.05	3	ENE	58.8	57.6	57.6	30.184	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:29 AM	58.8	58.9	58.8	62	45.8	3	ENE	0.05	4	ENE	58.8	57.6	57.6	30.186	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:30 AM	58.8	58.8	58.8	62	45.8	2	ENE	0.03	4	ENE	58.8	57.6	57.6	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:31 AM	58.8	58.8	58.8	62	45.8	1	ENE	0.02	2	ENE	58.8	57.6	57.6	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:32 AM	58.7	58.8	58.7	62	45.7	3	ENE	0.05	4	ENE	58.7	57.5	57.5	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:33 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	4	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:34 AM	58.7	58.7	58.7	62	45.7	3	ENE	0.05	5	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:35 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	3	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:36 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	4	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:37 AM	58.6	58.7	58.6	62	45.6	2	ENE	0.03	3	ENE	58.6	57.4	57.4	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:38 AM	58.6	58.6	58.6	62	45.6	3	ENE	0.05	4	ENE	58.6	57.4	57.4	30.185	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:39 AM	58.6	58.6	58.6	62	45.6	1	ENE	0.02	3	ENE	58.6	57.4	57.4	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:40 AM	58.6	58.6	58.6	62	45.6	2	ENE	0.03	3	ENE	58.6	57.4	57.4	30.186	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:41 AM	58.6	58.6	58.6	63	46	2	ENE	0.03	3	ENE	58.6	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:42 AM	58.6	58.6	58.6	63	46	2	ENE	0.03	4	ENE	58.6	57.5	57.5	30.185	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	22	1	95.7	1
9/20/2012	4:43 AM	58.5	58.6	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:44 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:45 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:46 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:47 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:48 AM	58.5	58.5	58.5	63	45.9	3	ENE	0.05	4	ENE	58.5	57.4	57.4	30.184	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:49 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:50 AM	58.5	58.5	58.5	63	45.9	1	ENE	0.02	2	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:51 AM	58.5	58.5	58.5	64	46.4	1	ENE	0.02	2	ENE	58.5	57.4	57.4	30.184	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:52 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:53 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:54 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:55 AM	58.4	58.5	58.4	64	46.3	2	ENE	0.03	4	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:56 AM	58.4	58.4	58.4	64	46.3	2	ENE	0.03	3	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:57 AM	58.4	58.5	58.4	64	46.3	2	ENE	0.03	4	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:58 AM	58.5	58.5	58.4	65	46.8	2	ENE	0.03	4	ENE	58.5	57.5	57.5	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:59 AM	58.4	58.5	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:00 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:01 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:02 AM	58.4	58.4	58.4	65	46.7	3	ENE	0.05	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:03 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:04 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	2	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:05 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:06 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:07 AM	58.4	58.5	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:08 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:09 AM	58.4	58.5	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:10 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	4	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:11 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:12 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	3	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:13 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	3	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:14 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:15 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:16 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:17 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:18 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:19 AM	58.4	58.4	58.4	67	47.5	2	ENE	0.03	2	ENE	58.4	57.5	57.5	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:20 AM	58.4	58.4	58.4	67	47.5	2	ENE	0.03	3	ENE	58.4	57.5	57.5	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:21 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:22 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:23 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:24 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:25 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:26 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	4	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:27 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:28 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:29 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:30 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:31 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:32 AM	58.4	58.4	58.3	66	47.1	2	ENE	0.03	5	ENE	58.4	57.4	57.4	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:33 AM	58.3	58.3	58.3	66	47	3	ENE	0.05	7	ENE	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:34 AM	58.3	58.4	58.3	66	47	3	E	0.05	6	E	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:35 AM	58.4	58.4	58.3	66	47.1	3	ENE	0.05	5	E	58.4	57.4	57.4	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:36 AM	58.3	58.4	58.3	66	47	3	ENE	0.05	4	ENE	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:37 AM	58.3	58.4	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:38 AM	58.4	58.4	58.3	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:39 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	5	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:40 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:41 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:42 AM	58.3	58.4	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.187	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:43 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:44 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	4	ENE	58.3	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:45 AM	58.2	58.3	58.2	66	46.9	2	ENE	0.03	4	ENE	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:46 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	2	ENE	58.3	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:47 AM	58.3	58.3	58.2	66	47	3	ENE	0.05	4	ENE	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:48 AM	58.2	58.2	58.2	66	46.9	2	ENE	0.03	4	ENE	58.2	57.2	57.2	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:49 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	6	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:50 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:51 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	5	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:52 AM	58.2	58.3	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:53 AM	58.3	58.3	58.2	66	47	3	E	0.05	5	E	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:54 AM	58.2	58.3	58.2	66	46.9	2	E	0.03	5	E	58.2	57.2	57.2	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:55 AM	58.2	58.3	58.2	66	46.9	3	E	0.05	5	ENE	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:56 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2

Meteorological Data
Equity IRM

9/20/2012	7:18 AM	59.7	59.8	59.7	70	49.9	2	E	0.03	3	E	59.7	59.1	59.1	30.199	0	0	0.004	0	54.3	70	44.7	53.6	13.44	0.0772	24	1	100	1
9/20/2012	7:19 AM	59.8	59.8	59.8	70	50	2	E	0.03	3	E	59.8	59.2	59.2	30.199	0	0	0.004	0	54.6	69	44.6	53.8	13.23	0.0771	23	1	100	1
9/20/2012	7:20 AM	59.8	59.8	59.8	70	50	3	E	0.05	6	E	59.8	59.2	59.2	30.198	0	0	0.004	0	54.9	68	44.5	54	12.95	0.0771	23	1	100	1
9/20/2012	7:21 AM	59.9	59.9	59.8	70	50.1	2	E	0.03	6	E	59.9	59.3	59.3	30.198	0	0	0.004	0	55.2	67	44.4	54.3	12.74	0.077	23	1	100	1
9/20/2012	7:22 AM	59.9	59.9	59.9	70	50.1	3	E	0.05	5	E	59.9	59.3	59.3	30.197	0	0	0.004	0	55.5	67	44.7	54.6	12.73	0.077	23	1	100	1
9/20/2012	7:23 AM	59.9	59.9	59.9	70	50.1	2	E	0.03	5	E	59.9	59.3	59.3	30.202	0	0	0.004	0	55.8	69	45.8	55	13.2	0.0769	24	1	100	1
9/20/2012	7:24 AM	60	60	59.9	71	50.6	1	E	0.02	2	E	60	59.4	59.4	30.201	0	0	0.003	0	56.1	69	46.1	55.3	13.18	0.0769	22	1	95.7	1
9/20/2012	7:25 AM	60	60	60	71	50.6	2	E	0.03	3	E	60	59.4	59.4	30.201	0	0	0.003	0	56.4	69	46.4	55.6	13.17	0.0768	24	1	100	1
9/20/2012	7:26 AM	60	60	60	70	50.2	3	E	0.05	5	SE	60	59.4	59.4	30.2	0	0	0.003	0	56.8	69	46.7	56	13.14	0.0767	23	1	100	1
9/20/2012	7:27 AM	60	60	60	70	50.2	3	ESE	0.05	5	ESE	60	59.4	59.4	30.2	0	0	0.003	0	57.1	68	46.6	56.2	12.87	0.0767	23	1	100	1
9/20/2012	7:28 AM	60.1	60.1	60	70	50.3	2	ESE	0.03	4	ESE	60.1	59.5	59.5	30.197	0	0	0.003	0	57.4	68	46.9	56.5	12.85	0.0766	24	1	100	1
9/20/2012	7:29 AM	60.1	60.1	60.1	70	50.3	4	ESE	0.07	7	ESE	60.1	59.5	59.5	30.198	0	0	0.003	0	57.9	67	47	57	12.63	0.0766	23	1	100	1
9/20/2012	7:30 AM	60.1	60.1	60.1	70	50.3	3	ESE	0.05	5	ESE	60.1	59.5	59.5	30.199	0	0	0.003	0	58.2	66	46.9	57.2	12.39	0.0765	24	1	100	1
9/20/2012	7:31 AM	60.2	60.2	60.1	70	50.4	3	ESE	0.05	4	ESE	60.2	59.6	59.6	30.199	0	0	0.003	0	58.5	66	47.2	57.6	12.38	0.0765	23	1	100	1
9/20/2012	7:32 AM	60.2	60.2	60.2	70	50.4	4	E	0.07	9	E	60.2	59.6	59.6	30.199	0	0	0.003	0	58.8	66	47.5	57.9	12.37	0.0764	23	1	100	1
9/20/2012	7:33 AM	60.2	60.2	60.2	70	50.4	3	E	0.05	6	E	60.2	59.6	59.6	30.196	0	0	0.003	0	59.1	65	47.3	58.1	12.09	0.0764	24	1	100	1
9/20/2012	7:34 AM	60.3	60.3	60.2	70	50.5	3	E	0.05	5	E	60.3	59.7	59.7	30.202	0	0	0.003	0	59.3	65	47.5	58.3	12.08	0.0763	23	1	100	1
9/20/2012	7:35 AM	60.3	60.3	60.3	70	50.5	4	ESE	0.07	7	ESE	60.3	59.7	59.7	30.199	0	0	0.003	0	59.6	65	47.8	58.7	12.07	0.0763	24	1	100	1
9/20/2012	7:36 AM	60.3	60.3	60.3	70	50.5	4	ESE	0.07	5	ESE	60.3	59.7	59.7	30.199	0	0	0.003	0	59.9	65	48.1	59	12.05	0.0762	23	1	100	1
9/20/2012	7:37 AM	60.3	60.3	60.3	71	50.9	3	ESE	0.05	4	ESE	60.3	59.7	59.7	30.198	0	0	0.003	0	60.2	64	48	59.2	11.85	0.0762	24	1	100	1
9/20/2012	7:38 AM	60.4	60.4	60.3	71	51	2	ESE	0.03	3	ESE	60.4	59.8	59.8	30.202	0	0	0.003	0	60.3	64	48.1	59.3	11.84	0.0762	22	1	95.7	1
9/20/2012	7:39 AM	60.4	60.4	60.4	71	51	4	ENE	0.07	9	ENE	60.4	59.8	59.8	30.203	0	0	0.003	0	60.7	64	48.4	59.8	11.84	0.0761	23	1	100	1
9/20/2012	7:40 AM	60.4	60.5	60.4	71	51	3	E	0.05	7	E	60.4	59.8	59.8	30.199	0	0	0.003	0	61	63	48.3	60	11.65	0.0761	24	1	100	1
9/20/2012	7:41 AM	60.5	60.5	60.4	71	51	3	E	0.05	5	E	60.5	60	60	30.2	0	0	0.003	0	61.1	63	48.4	60.1	11.65	0.076	23	1	100	1
9/20/2012	7:42 AM	60.5	60.5	60.5	71	51	4	E	0.07	7	E	60.5	60	60	30.2	0	0	0.003	0	61.4	63	48.7	60.5	11.65	0.076	24	1	100	1
9/20/2012	7:43 AM	60.5	60.5	60.5	71	51	4	E	0.07	7	ENE	60.5	60	60	30.201	0	0	0.003	0	61.8	63	49.1	60.9	11.65	0.0759	23	1	100	1
9/20/2012	7:44 AM	60.6	60.6	60.6	71	51.1	5	E	0.08	8	E	60.6	60.1	60.1	30.198	0	0	0.003	0	61.9	63	49.2	61	11.65	0.0759	23	1	100	1
9/20/2012	7:45 AM	60.6	60.6	60.6	70	50.8	6	E	0.1	10	E	60.3	60	59.7	30.2	0	0	0.003	0	62.2	63	49.4	61.3	11.65	0.0759	24	1	100	1
9/20/2012	7:46 AM	60.6	60.6	60.6	70	50.8	4	E	0.07	10	E	60.6	60	60	30.199	0	0	0.003	0	62.5	63	49.7	61.7	11.65	0.0758	22	1	95.7	1
9/20/2012	7:47 AM	60.6	60.6	60.6	71	51.1	3	E	0.05	6	E	60.6	60.1	60.1	30.197	0	0	0.003	0	62.7	62	49.5	61.8	11.45	0.0758	24	1	100	1
9/20/2012	7:48 AM	60.7	60.7	60.6	71	51.2	4	ESE	0.07	7	ESE	60.7	60.2	60.2	30.2	0	0	0.003	0	62.9	62	49.7	62	11.45	0.0757	23	1	100	1
9/20/2012	7:49 AM	60.7	60.7	60.7	71	51.2	2	E	0.03	5	E	60.7	60.2	60.2	30.199	0	0	0.003	0	63.2	62	50	62.3	11.45	0.0757	24	1	100	1
9/20/2012	7:50 AM	60.8	60.8	60.7	71	51.3	4	E	0.07	10	ENE	60.8	60.3	60.3	30.199	0	0	0.003	0	63.3	62	50.1	62.4	11.45	0.0757	23	1	100	1
9/20/2012	7:51 AM	60.8	60.8	60.8	71	51.3	4	E	0.07	7	E	60.8	60.3	60.3	30.198	0	0	0.003	0	63.5	61	49.8	62.6	11.25	0.0756	22	1	95.7	1
9/20/2012	7:52 AM	60.9	60.9	60.8	71	51.4	3	E	0.05	5	E	60.9	60.4	60.4	30.2	0	0	0.003	0	63.6	61	49.9	62.7	11.25	0.0756	24	1	100	1
9/20/2012	7:53 AM	60.9	60.9	60.9	71	51.4	5	E	0.08	9	E	60.9	60.4	60.4	30.197	0	0	0.003	0	64	61	50.3	63.2	11.25	0.0756	22	1	95.7	1
9/20/2012	7:54 AM	60.9	60.9	60.9	71	51.4	5	ENE	0.08	8	ENE	60.9	60.4	60.4	30.2	0	0	0.003	0	64.1	61	50.4	63.3	11.25	0.0755	23	1	100	1
9/20/2012	7:55 AM	61	61	60.9	71	51.5	4	ENE	0.07	8	E	61	60.5	60.5	30.202	0	0	0.003	0	64.3	61	50.6	63.5	11.25	0.0755	23	1	100	1
9/20/2012	7:56 AM	61	61	61	71	51.5	4	E	0.07	7	E	61	60.5	60.5	30.203	0	0	0.003	0	64.6	60	50.4	63.8	11.06	0.0755	22	1	95.7	1
9/20/2012	7:57 AM	61.1	61.1	61.1	71	51.6	5	E	0.08	10	ENE	61.1	60.6	60.6	30.204	0	0	0.003	0	64.8	60	50.6	64	11.05	0.0754	24	1	100	1
9/20/2012	7:58 AM	61.2	61.2	61.1	71	51.7	4	E	0.07	6	E	61.2	60.7	60.7	30.2	0	0	0.003	0	64.9	60	50.7	64.1	11.05	0.0754	22	1	95.7	1
9/20/2012	7:59 AM	61.2	61.2	61.2	70	51.3	3	ESE	0.05	7	ESE	61.2	60.6	60.6	30.199	0	0	0.003	0	65.3	60	51.1	64.5	11.05	0.0753	24	1	100	1
9/20/2012	8:00 AM	61.3	61.3	61.2	70	51.4	3	ESE	0.05	5	ESE	61.3	60.7	60.7	30.202	0	0	0.003	0	65.4	60	51.1	64.6	11.05	0.0753	22	1	95.7	1
9/20/2012	8:01 AM	61.3	61.3	61.2	70	51.4	2	ESE	0.03	5	E	61.3	60.7	60.7	30.198	0	0	0.003	0	65.8	59	51.1	65	10.95	0.0753	24	1	100	1
9/20/2012	8:02 AM	61.3	61.3	61.3	70	51.4	5	E	0.08	7	E	61.3	60.7	60.7	30.201	0	0	0.003	0	65.9	59	51.2	65.1	10.95	0.0753	22	1	95.7	1
9/20/2012	8:03 AM	61.3	61.3	61.3	69	51	4	E	0.07	6	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.2	59	51.4	65.5	10.95	0.0752	22	1	95.7	1
9/20/2012	8:04 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.4	59	51.6	65.7	10.95	0.0752	24	1	100	1
9/20/2012	8:05 AM	61.3	61.3	61.3	69	51	3	E	0.05	5	E	61.3	60.7	60.7	30.199	0	0	0.003	0	66.7	58	51.5	66	10.75	0.0751	22	1	95.7	1
9/20/2012	8:06 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.9	58	51.6	66.2	10.75	0.0751	24	1	100	1
9/20/2012	8:07 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.202	0	0	0.003	0	67.2	58	51.9	66.6	10.75	0.0751	23	1	100	1
9/20/2012	8:08 AM	61.4	61.4	61.3	69	51.1	2	E	0.03	3	E	61.4	60.8	60.8	30.2	0	0	0.002	0	67.4	58	52.1	66.8	10.75	0.075	23	1	100	1
9/20/2012	8:09 AM	61.4	61.4	61.4	68	50.7	2	E	0.03	3	E	61.4	60.8	60.8	30.2	0	0	0.002	0	67.7	57	51.9	67.1	10.6	0.075	24	1	100	1
9/20/2012	8:10 AM	61.5	61.5	61.4	68	50.8	2	E	0.03	3	E	61.5	60.9	60.9	30.2	0	0	0.002	0	67.9	57	52.1	67.3	10.59	0.0749	23	1	100	1
9/20/2012	8:11 AM	61.4	61.4	61.4	68	50.7	1	E	0.02	3	E	61.4	60.8	60.8	30.199	0	0	0.002	0	68.2	57	52.4	67.6	10.59	0.0749	24	1	100	1
9/20/2012	8:12 AM	61.4	61.4	61.4	68	50.7	3	E	0.05	5	E	61.4	60.8	60.8	30.199	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0748	23	1	100	1
9/20/2012	8:13 AM	61.4	61.4	61.4	66	49.9	3	E	0.05	5	E	61.4	60.7	60.7	30.196	0	0	0.002	0	68.7	56	52.4	67.8	10.38	0.0748	24	1	100	1
9/20/2012	8:14 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	5	E	61.3	60.6	60.6	30.197	0	0	0.003	0	68.9	56	52.6	68	10.37	0.0748	23	1	100	1
9/20/2012	8:15 AM	61.2	61.3	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.196	0	0	0.003	0	69.2	55	52.3	68.1	10.17	0.0747	23	1	100	1
9/20/2012	8:16 AM	61.2	61.2	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.198	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0747	24	1	100	1
9/20/2012	8:17 AM	61.2	61.2	61.2	66	49.7	1	E	0.02	3	E	61.2	60.5	60.5	30.198	0	0	0.003	0	69.6	55	52.7	68.4	10.16	0.0747	23	1	100	1
9/20/2012	8:18 AM	61.2	61.2	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.2	0	0	0.003	0	69.9	55	53	68.6	10.15	0.0746	24	1	100	1
9/20/2012	8:19 AM	61.2	61.2	61.2	66	49.7	1	E	0.02	3	E	61.2	60.5	60.5	30.201	0	0	0.003	0	70.2	55	53.3	69	10.15	0.0746	23	1	100	1
9/20/2012	8:20 AM	61.3	61.3	61.2	66	49.8	1	E	0.02	2	E	61.3	60.6	60.6	30.201	0	0	0.003	0	70.4	55	53.5	69.2	10.14	0.0745	23	1	100	1
9/20/2012	8:21 AM	61.4	61.4	61.3	66	49.9	3	E	0.05	5	E	61.4	60.7	60.7	30.202	0	0	0.002	0	70.7	54	53.2	69.5	9.94	0.0745	24	1	100	1
9/20/2012	8:22 AM	61.4	61.4	61.4	66	49.9	4	E	0.07	6	E	61.4	60.7	60.7	30.201	0	0	0.002	0	70.9	55	53.9	69.9	10.13	0.0745	23	1	100	1
9/20/2012	8:23 AM	61.4	61.4	61.4	65	49.5	3	E	0.05	5	E	61.4	60.6	60.6	30.203	0	0	0.002	0	71.1	54	53.6	70.1	9.93	0.0744	24	1	100	1
9/20/2012	8:24 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	3	E	61.3	60.6	60.6	30.203	0	0	0.003	0	71.4	54	53.9	70.5	9.92	0.0744	23	1	100	1
9/20/2012	8:25 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	3	E	61.3	60.6	60.6	30.202	0	0	0.003	0	71.6	54	54.1	70.8	9.92	0.0743	23	1	100	1
9/20/2012	8:26 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	5	E	61.3	60.6	60.6	30.203	0	0	0.003	0	71.8	54	54.3	71.1	9.91	0.0743	24	1	100	1
9/20/2012	8:27 AM	61.3	61.3	61.3	66	49.8	3	E	0.05	5	E	61.3	60.6	60.6	30.202	0	0	0.003	0	71.9	53	53.8	71.2	9.77	0.0743	23	1	100	1
9/20/2012	8:28 AM	61.3	61.3	61.3	66	49.8	4	E	0.07	7	E	61.3	60.6	60.6	30.204	0	0	0.003	0	72.1	52	53.5	71.4	9.61	0.0743	24	1	100	1
9/20/2012	8:29 AM	61.3	61.3	61.3	67	50.2	3	E	0.05	6	E	61.3	60.6	60.6	30.204	0	0	0.003	0	72.3	52	53.7	71.7	9.6	0.0743	23	1	100	1
9/20/2012	8:30 AM	61.3	61.3	61.3	67	50.2	2	E	0.03	3	E	61.3	60.6	60.6	30.205	0	0	0.003	0	72.4	51	53.2	71.7	9.4	0.0743	24	1	100	1
9/20/2012	8:31 AM	61.4	61.4	61.3	68	50.7	2	E	0.03	4	ENE	61.4	60.8	60.8	30.206	0	0	0.002	0	72.4	52	53.8	71.8	9.6	0.0743	23	1	100	1
9/20/2012	8:32 AM	61.5	61.5	61.4	68	50.8	1	ENE	0.02	2	ENE	61.5	60.9	60.9	30.204	0	0	0.002	0	72.6	51	53.4	72	9.4	0.0742	23	1	100	1
9/20/2012	8:33 AM	61.6	61.6	61.5	68	50.9	3	ENE	0.05	7	E	61.6	61	61	30.205	0	0	0.002	0	72.8	51	53.6	72.3	9.39	0.0742	24	1	100	1
9/20/2012	8:34 AM	61.6	61.6	61.6	67	50.5	4	E	0.07	7	ENE	61.6	60.9	60.9	30.205	0	0	0.002	0	73	52	54.3	72.7	9.59	0.0742	23	1	100	1
9/20/2012	8:35 AM	61.5	61.5	61.5	67	50.4	4	E	0.07	6	E	61.5	60.8	60.8	30.207	0	0	0.002	0	73	52	54.3	72.7	9.59	0.0742	24	1	100	1
9/20/2012	8:36 AM	61.4	61.5	61.4	68	50.7	2	E	0.03	5	E	61.4	60.8	60.8	30.207	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:37 AM	61.4	61.4	61.4	68	50.7	3	E	0.05	6	E	61.4	60.8	60.8	30.207	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:38 AM	61.3	61.4	61.3	68	50.6	2	E	0.03	5	E	61.3	60.6	60.6	30.209	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:39 AM	61.3	61.3	61.3	68	50.6	2	E	0.03	3	E	61.3	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:40 AM	61.3	61.3	61.3	68	50.6	3	E	0.05	5	E	61.3	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:41 AM	61.4	61.4	61.3	68	50.7	3	E	0.05	5	E	61.4	60.8	60.8	30.206	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:42 AM	61.4	61.4	61.4	68	50.7	4	E	0.07	7	ESE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:43 AM	61.4	61.4	61.4	68	50.7	4	E	0.07	8	ENE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.3	50	53.5	72.9	9.25	0.0741	23	1	100	1
9/20/2012	8:44 AM	61.4	61.4	61.4	68	50.7	4	ENE	0.07	5	ENE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.3	51	54.1	73	9.38	0.0741	23	1	100	1
9/20/2012	8:45 AM	61.3	61.4	61.3	69	51	3	E	0.05	5	E	61.3	60.7	60.7	30.204	0	0	0.003	0	73.3	50	53.5	72.9	9.25	0.0741	24	1	100	1
9/20/2012	8:46 AM	61.3	61.4	61.3	69	51	1	E	0.02	3	E	61.3	60.7	60.7	30.202	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	21	1	91.3	1
9/20/2012	8:47 AM	61.3	61.3	61.3	69	51	3	E	0.05	6	E	61.3	60.7	60.7	30.203	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	24	1	100	1
9/20/2012	8:48 AM	61.3	61.3	61.3	69	51	3	E	0.05	3	E	61.3	60.7	60.7	30.205	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	22	1	95.7	1
9/20/2012	8:49 AM	61.2	61.3	61.2	69	50.9	2	E	0.03	3	E	61.2	60.6	60.6	30.203	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0741	23	1	100	1
9/20/2012	8:50 AM	61.3	61.3	61.3	69	51	4	E	0.07	5	E	61.3	60.7	60.7	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:51 AM	61.2	61.3	61.2	69	50.9	5	ENE	0.08	7	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:52 AM	61.2	61.3	61.2	69	50.9	4	ENE	0.07	5	E	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	50	53.4	72.6	9.25	0.0742	23	1	100	1
9/20/2012	8:53 AM	61.2	61.2	61.2	69	50.9	3	ENE	0.05	7	ENE	61.2	60.6	60.6	30.204	0	0	0.003	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	8:54 AM	61.1	61.2	61.1	69	50.8	4	ENE	0.07	7	ENE	61.1	60.5	60.5	30.205	0	0	0.003	0	73	52	54.3	72.7	9.59	0.0742	23	1	100	1
9/20/2012	8:55 AM	61.2	61.2	61.1	69	50.9	1	ENE	0.02	3	ENE	61.2	60.6	60.6	30.203	0	0	0.003	0	72.8	52	54.1	72.4	9.59	0.0742	22	1	95.7	1
9/20/2012	8:56 AM	61.2	61.2	61.2	70	51.3	2	ENE	0.03	3	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	8:57 AM	61.2	61.2	61.2	70	51.3	2	ENE	0.03	4	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	8:58 AM	61.2	61.2	61.2	70	51.3	1	ENE	0.02	3	ENE	61.2	60.6	60.6	30.205	0	0	0.003	0	72.8	51	53.6	72.

Meteorological Data
Equity IRM

9/20/2012	10:18 AM	64	64	64	72	54.8	4	E	0.07	7	E	64	63.9	63.9	30.206	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:19 AM	64	64	64	72	54.8	3	E	0.05	7	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:20 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	E	63.9	63.8	63.8	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	10:21 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	ENE	63.9	63.8	63.8	30.204	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	24	1	100	1
9/20/2012	10:22 AM	63.9	63.9	63.9	72	54.7	3	ENE	0.05	5	ENE	63.9	63.8	63.8	30.202	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:23 AM	63.9	63.9	63.9	73	55.1	5	ENE	0.08	7	E	63.9	63.9	63.9	30.202	0	0	0.001	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:24 AM	64	64	63.9	73	55.2	5	ENE	0.08	7	ENE	64	64	64	30.203	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:25 AM	64.1	64.1	64	73	55.3	4	ENE	0.07	5	ENE	64.1	64.1	64.1	30.202	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	22	1	95.7	1
9/20/2012	10:26 AM	64.3	64.3	64.1	73	55.5	4	E	0.07	8	E	64.3	64.3	64.3	30.2	0	0	0	0	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	10:27 AM	64.4	64.4	64.3	72	55.2	6	E	0.1	9	E	64.4	64.4	64.4	30.202	0	0	0	0	75.6	51	56.2	75.7	9.35	0.0737	23	1	100	1
9/20/2012	10:28 AM	64.4	64.4	64.4	71	54.8	3	E	0.05	5	E	64.4	64.3	64.3	30.202	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:29 AM	64.5	64.5	64.5	72	55.3	4	E	0.07	6	E	64.5	64.5	64.5	30.199	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	23	1	100	1
9/20/2012	10:30 AM	64.7	64.7	64.6	71	55.1	4	E	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	22	1	95.7	1
9/20/2012	10:31 AM	64.7	64.7	64.7	71	55.1	4	E	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:32 AM	64.7	64.7	64.7	71	55.1	4	ENE	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.9	51	56.5	76	9.35	0.0737	22	1	95.7	1
9/20/2012	10:33 AM	64.7	64.7	64.7	72	55.5	3	ENE	0.05	4	ENE	64.7	64.8	64.8	30.202	0	0	0	0	75.9	51	56.5	76	9.35	0.0737	24	1	100	1
9/20/2012	10:34 AM	64.9	64.9	64.8	72	55.7	3	ENE	0.05	7	E	64.9	65	65	30.201	0	0	0	0	76.1	51	56.7	76.1	9.35	0.0736	22	1	95.7	1
9/20/2012	10:35 AM	65	65	64.9	71	55.4	3	E	0.05	6	E	65	65.1	65.1	30.202	0	0	0	0	76.1	51	56.7	76.1	9.35	0.0736	23	1	100	1
9/20/2012	10:36 AM	65	65	65	71	55.4	3	NE	0.05	5	NE	65	65.1	65.1	30.199	0	0	0	0	76.3	51	56.8	76.3	9.35	0.0736	23	1	100	1
9/20/2012	10:37 AM	65	65	65	71	55.4	4	ENE	0.07	7	E	65	65.1	65.1	30.198	0	0	0	0	76.4	51	56.9	76.4	9.35	0.0736	23	1	100	1
9/20/2012	10:38 AM	65	65.1	65	71	55.4	5	ENE	0.08	9	E	65	65.1	65.1	30.202	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0736	23	1	100	1
9/20/2012	10:39 AM	65.1	65.1	65	71	55.5	4	ENE	0.07	7	ENE	65.1	65.2	65.2	30.198	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	22	1	95.7	1
9/20/2012	10:40 AM	65.1	65.1	65.1	71	55.5	4	E	0.07	6	E	65.1	65.2	65.2	30.198	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	24	1	100	1
9/20/2012	10:41 AM	65.1	65.1	65.1	71	55.5	5	E	0.08	7	E	65.1	65.2	65.2	30.199	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	22	1	95.7	1
9/20/2012	10:42 AM	65.1	65.1	65.1	71	55.5	5	E	0.08	8	E	65.1	65.2	65.2	30.198	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	10:43 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	6	E	65.1	65.1	65.1	30.199	0	0	0	0	77.3	49	56.6	77.1	9	0.0735	22	1	95.7	1
9/20/2012	10:44 AM	65.2	65.2	65.1	70	55.2	2	E	0.03	5	E	65.2	65.2	65.2	30.195	0	0	0	0	77.3	49	56.6	77.1	9	0.0734	23	1	100	1
9/20/2012	10:45 AM	65.1	65.2	65.1	70	55.1	2	E	0.03	6	E	65.1	65.1	65.1	30.195	0	0	0	0	77.3	49	56.6	77.1	9	0.0734	24	1	100	1
9/20/2012	10:46 AM	65.1	65.1	65.1	71	55.5	1	E	0.02	2	E	65.1	65.2	65.2	30.195	0	0	0	0	77.3	50	57.2	77.2	9.2	0.0734	23	1	100	1
9/20/2012	10:47 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	5	E	65.1	65.1	65.1	30.195	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	10:48 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	5	E	65.1	65.1	65.1	30.197	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	24	1	100	1
9/20/2012	10:49 AM	65	65.1	65	70	55	2	E	0.03	5	E	65	65	65	30.197	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	23	1	100	1
9/20/2012	10:50 AM	65	65	65	71	55.4	2	E	0.03	3	E	65	65.1	65.1	30.197	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	24	1	100	1
9/20/2012	10:51 AM	65	65	65	71	55.4	3	E	0.05	6	E	65	65.1	65.1	30.196	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	10:52 AM	65	65	65	71	55.4	2	E	0.03	7	ENE	65	65.1	65.1	30.197	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	10:53 AM	65	65	65	71	55.4	1	ENE	0.02	3	ENE	65	65.1	65.1	30.196	0	0	0	0	76.4	50	56.4	76.3	9.22	0.0736	23	1	100	1
9/20/2012	10:54 AM	65	65	65	71	55.4	2	ENE	0.03	3	ENE	65	65.1	65.1	30.194	0	0	0	0	76.3	50	56.3	76.2	9.22	0.0736	23	1	100	1
9/20/2012	10:55 AM	65.1	65.1	65	72	55.8	2	ENE	0.03	3	ENE	65.1	65.2	65.2	30.197	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	10:56 AM	65.2	65.2	65.1	71	55.6	4	ESE	0.07	6	SE	65.2	65.3	65.3	30.196	0	0	0	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:57 AM	65.3	65.3	65.2	71	55.7	2	ESE	0.03	4	SE	65.3	65.4	65.4	30.195	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	24	1	100	1
9/20/2012	10:58 AM	65.5	65.5	65.3	71	55.8	2	ESE	0.03	4	ESE	65.5	65.7	65.7	30.195	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:59 AM	65.8	65.8	65.6	72	56.5	0	ESE	0	2	ESE	65.8	66.1	66.1	30.192	0	0	0	0.001	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	11:00 AM	66.1	66.1	65.8	70	56	1	ESE	0.02	3	ESE	66.1	66.3	66.3	30.189	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	11:01 AM	66.3	66.3	66.1	70	56.2	2	ESE	0.03	3	ESE	66.3	66.6	66.6	30.191	0	0	0	0.001	75.9	51	56.5	76	9.35	0.0736	23	1	100	1
9/20/2012	11:02 AM	66.4	66.4	66.3	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.192	0	0	0	0.001	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	11:03 AM	66.4	66.4	66.4	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.193	0	0	0	0.001	76.3	50	56.3	76.2	9.22	0.0736	23	1	100	1
9/20/2012	11:04 AM	66.4	66.4	66.4	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.191	0	0	0	0.001	76.3	50	56.3	76.2	9.22	0.0736	22	1	95.7	1
9/20/2012	11:05 AM	66.5	66.5	66.4	69	56	2	ESE	0.03	4	ESE	66.5	66.7	66.7	30.192	0	0	0	0.001	76.4	50	56.4	76.3	9.22	0.0736	24	1	100	1
9/20/2012	11:06 AM	66.5	66.5	66.5	69	56	1	ESE	0.02	3	ESE	66.5	66.7	66.7	30.195	0	0	0	0.001	76.4	50	56.4	76.3	9.22	0.0736	23	1	100	1
9/20/2012	11:07 AM	66.5	66.5	66.5	68	55.6	2	ESE	0.03	4	ESE	66.5	66.6	66.6	30.191	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:08 AM	66.5	66.6	66.5	68	55.6	2	ESE	0.03	4	ESE	66.5	66.6	66.6	30.189	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:09 AM	66.6	66.6	66.6	68	55.7	2	ESE	0.03	3	ESE	66.6	66.8	66.8	30.188	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:10 AM	66.6	66.7	66.6	68	55.7	2	ESE	0.03	4	ESE	66.6	66.8	66.8	30.187	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:11 AM	66.7	66.7	66.7	68	55.8	3	ESE	0.05	5	ESE	66.7	66.9	66.9	30.188	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:12 AM	66.7	66.7	66.7	68	55.8	3	ESE	0.05	4	ESE	66.7	66.9	66.9	30.187	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:13 AM	66.7	66.7	66.7	68	55.8	2	ESE	0.03	3	ESE	66.7	66.9	66.9	30.186	0	0	0	0.001	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:14 AM	66.8	66.8	66.8	68	55.9	2	ESE	0.03	4	ESE	66.8	67	67	30.184	0	0	0	0.001	77	50	56.9	76.8	9.21	0.0734	24	1	100	1
9/20/2012	11:15 AM	66.9	66.9	66.8	68	56	4	E	0.07	7	E	66.9	67.1	67.1	30.185	0	0	0	0.001	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	11:16 AM	66.9	66.9	66.9	68	56	4	E	0.07	6	E	66.9	67.1	67.1	30.186	0	0	0	0.001	77.3	50	57.2	77.2	9.2	0.0734	23	1	100	1
9/20/2012	11:17 AM	66.9	66.9	66.8	68	56	4	E	0.07	7	E	66.9	67.1	67.1	30.185	0	0	0	0.001	77.5	50	57.4	77.4	9.2	0.0734	24	1	100	1
9/20/2012	11:18 AM	66.8	66.8	66.8	69	56.3	3	E	0.05	7	E	66.8	67.1	67.1	30.184	0	0	0	0.001	77.7	50	57.6	77.6	9.2	0.0733	23	1	100	1
9/20/2012	11:19 AM	66.7	66.8	66.7	69	56.2	3	ENE	0.05	7	ENE	66.7	67	67	30.18	0	0	0	0.001	77.9	50	57.8	77.9	9.19	0.0733	24	1	100	1
9/20/2012	11:20 AM	66.7	66.7	66.6	69	56.2	3	ENE	0.05	5	ENE	66.7	67	67	30.184	0	0	0	0.001	77.9	50	57.8	77.9	9.19	0.0733	23	1	100	1
9/20/2012	11:21 AM	66.8	66.8	66.7	69	56.3	4	E	0.07	5	E	66.8	67.1	67.1	30.182	0	0	0	0.001	78	50	57.9	78	9.19	0.0733	24	1	100	1
9/20/2012	11:22 AM	66.7	66.7	66.7	68	55.8	5	E	0.08	7	E	66.7	66.9	66.9	30.185	0	0	0	0.001	78	50	57.9	78	9.19	0.0733	22	1	95.7	1
9/20/2012	11:23 AM	66.5	66.6	66.5	69	56	2	E	0.03	3	E	66.5	66.7	66.7	30.183	0	0	0	0.001	78	49	57.3	77.9	8.99	0.0733	23	1	100	1
9/20/2012	11:24 AM	66.4	66.5	66.4	69	55.9	2	E	0.03	5	E	66.4	66.6	66.6	30.182	0	0	0	0.001	78	49	57.3	77.9	8.99	0.0733	23	1	100	1
9/20/2012	11:25 AM	66.3	66.4	66.3	69	55.8	3	E	0.05	5	E	66.3	66.5	66.5	30.183	0	0	0	0.001	77.9	49	57.2	77.8	8.99	0.0733	23	1	100	1
9/20/2012	11:26 AM	66.2	66.3	66.2	69	55.7	2	E	0.03	6	E	66.2	66.4	66.4	30.18	0	0	0	0.001	77.7	49	57	77.6	9	0.0733	23	1	100	1
9/20/2012	11:27 AM	66	66.1	66	69	55.5	5	E	0.08	6	E	66	66.1	66.1	30.178	0	0	0	0.001	77.5	50	57.4	77.4	9.2	0.0733	23	1	100	1
9/20/2012	11:28 AM	65.9	66	65.9	70	55.8	3	E	0.05	6	E	65.9	66.1	66.1	30.18	0	0	0	0.001	77.3	49	56.6	77.1	9	0.0734	22	1	95.7	1
9/20/2012	11:29 AM	65.8	65.8	65.8	70	55.7	2	E	0.03	5	E	65.8	66	66	30.18	0	0	0	0.001	77.2	50	57.1	77	9.21	0.0734	24	1	100	1
9/20/2012	11:30 AM	65.7	65.7	65.7	70	55.6	1	E	0.02	3	E	65.7	65.8	65.8	30.179	0	0	0	0	77	50	56.9	76.8	9.21	0.0734	22	1	95.7	1
9/20/2012	11:31 AM	65.6	65.7	65.6	70	55.5	1	E	0.02	3	E	65.6	65.7	65.7	30.175	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:32 AM	65.7	65.7	65.6	70	55.6	2	E	0.03	5	E	65.7	65.8	65.8	30.179	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:33 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	3	E	65.7	65.8	65.8	30.177	0	0	0	0	76.3	50	56.3	76.2	9.22	0.0735	23	1	100	1
9/20/2012	11:34 AM	65.7	65.7	65.7	70	55.6	3	E	0.05	5	E	65.7	65.8	65.8	30.179	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	11:35 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	5	E	65.7	65.8	65.8	30.181	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	11:36 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	6	E	65.7	65.8	65.8	30.178	0	0	0	0	75.9	50	55.9	75.9	9.23	0.0736	24	1	100	1
9/20/2012	11:37 AM	65.7	65.7	65.7	70	55.6	3	E	0.05	6	E	65.7	65.8	65.8	30.176	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	11:38 AM	65.7	65.7	65.7	71	56	1	E	0.02	3	E	65.7	65.9	65.9	30.178	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	24	1	100	1
9/20/2012	11:39 AM	65.8	65.8	65.8	70	55.7	2	E	0.03	3	E	65.8	66	66	30.179	0	0	0	0.001	75.6	50	55.6	75.6	9.24	0.0737	23	1	100	1
9/20/2012	11:40 AM	65.9	65.9	65.8	70	55.8	1	E	0.02	2	E	65.9	66.1	66.1	30.176	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	22	1	95.7	1
9/20/2012	11:41 AM	66.1	66.1	65.9	70	56	3	E	0.05	5	E	66.1	66.3	66.3	30.176	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	24	1	100	1
9/20/2012	11:42 AM	66.2	66.2	66.1	69	55.7	3	ESE	0.05	4	ESE	66.2	66.4	66.4	30.18	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	23	1	100	1
9/20/2012	11:43 AM	66.3	66.3	66.2	69	55.8	2	ESE	0.03	3	ESE	66.3	66.5	66.5	30.179	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	24	1	100	1
9/20/2012	11:44 AM	66.4	66.4	66.3	69	55.9	1	ESE	0.02	1	ESE	66.4	66.6	66.6	30.18	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	23	1	100	1
9/20/2012	11:45 AM	66.6	66.6	66.5	70	56.5	0	ESE	0	2	ESE	66.6	66.9	66.9	30.178	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	11:46 AM	66.8	66.8	66.6	69	56.3	1	ESE	0.02	2	ESE	66.8	67.1	67.1	30.175	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0736	23	1	100	1
9/20/2012	11:47 AM	67	67	66.8	69	56.5	0	ESE	0	1	ESE	67	67.3	67.3	30.176	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0736	23	1	100	1
9/20/2012	11:48 AM	67.3	67.3	67.1	69	56.8	0	ESE	0	1	ESE	67.3	67.7	67.7	30.176	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0736	24	1	100	1
9/20/2012	11:49 AM	67.6	67.6	67.4	67	56.2	2	ESE	0.03	4	ESE	67.6	67.9	67.9	30.178	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0736	23	1	100	1
9/20/2012	11:50 AM	67.9	67.9	67.7	67	56.5	2	ESE	0.03	3	ESE	67.9	68.2	68.2	30.176	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0735	24	1	100	1
9/20/2012	11:51 AM	68.1	68.1	67.9	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.176	0	0	0	0.002	76.6	51	57.1	76.6	9.35	0.0735	23	1	100	1
9/20/2012	11:52 AM	68.3	68.3	68.1	66	56.5	1	ESE	0.02	2	ESE	68.3	68.5	68.5	30.174	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:53 AM	68.3	68.3	68.3	66	56.5	3	ESE	0.05	4	ESE	68.3	68.5	68.5	30.176	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	11:54 AM	68.4	68.4	68.4	66	56.6	4	E	0.07	7	E	68.4	68.6	68.6	30.177	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	11:55 AM	68.4	68.4	68.4	66	56.6	2	ENE	0.03	4	ENE	68.4	68.6	68.6	30.173	0	0	0	0.002	77.3	50	57.2	77.2	9.2	0.0734	24	1	100	1
9/20/2012	11:56 AM	68.4	68.4	68.4	65	56.2	3	E	0.05	7	E	68.4	68.5	68.5	30.174	0	0	0	0.002	77.7	50	57.6	77.6	9.2	0.0733	23	1	100	1
9/20/2012	11:57 AM	68.4	68.4	68.4	65	56.2	4	E	0.07	6	E	68.4	68.5	68.5	30.175	0	0	0	0.002	77.9	50	57.8	77.9	9.19	0.0733	23	1	100	1
9/20/2012	11:58 AM	68.4	68.4	68.4	65	56.2	4	E	0.07	6	E	68.4	68.5	68.5	30.172	0	0	0	0.002	78	50	57.9	78	9.19	0.0732	24	1	100	1
9/20/2012	11:59 AM	68.3	68.4	68.3	65	56.1	1	E	0.02	3	E	68

Meteorological Data
Equity IRM

9/20/2012	1:18 PM	68.1	68.1	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.146	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:19 PM	68.2	68.2	68.1	67	56.8	3	ESE	0.05	5	ESE	68.2	68.5	68.5	30.147	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	24	1	100	1
9/20/2012	1:20 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:21 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.1	57	59.8	76.6	10.31	0.0733	23	1	100	1
9/20/2012	1:22 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	5	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.3	59	60.9	76.9	10.7	0.0733	24	1	100	1
9/20/2012	1:23 PM	68.1	68.2	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.147	0	0	0	0.002	76.3	57	59.9	76.8	10.3	0.0733	23	1	100	1
9/20/2012	1:24 PM	68.1	68.2	68.1	68	57.1	0	ESE	0	2	ESE	68.1	68.5	68.5	30.144	0	0	0	0.002	76.4	57	60	76.9	10.29	0.0733	24	1	100	1
9/20/2012	1:25 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	3	ESE	68.2	68.5	68.5	30.143	0	0	0	0.002	76.4	62	62.4	77.3	11.22	0.0732	23	1	100	1
9/20/2012	1:26 PM	68.1	68.2	68.1	68	57.1	2	ESE	0.03	2	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.4	62	62.4	77.3	11.22	0.0732	23	1	100	1
9/20/2012	1:27 PM	68.2	68.2	68.1	68	57.2	2	ESE	0.03	4	ESE	68.2	68.6	68.6	30.143	0	0	0	0.002	76.4	59	61	77.1	10.69	0.0732	24	1	100	1
9/20/2012	1:28 PM	68.2	68.2	68.2	67	56.8	3	ESE	0.05	4	ESE	68.2	68.5	68.5	30.143	0	0	0	0.002	76.4	58	60.5	77	10.49	0.0733	23	1	100	1
9/20/2012	1:29 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	3	ESE	68.2	68.5	68.5	30.141	0	0	0	0.002	76.6	55	59.2	76.9	9.99	0.0733	24	1	100	1
9/20/2012	1:30 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	5	ESE	68.2	68.5	68.5	30.14	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	23	1	100	1
9/20/2012	1:31 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	7	ESE	68.1	68.5	68.5	30.138	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	24	1	100	1
9/20/2012	1:32 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	2	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	23	1	100	1
9/20/2012	1:33 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.6	56	59.7	77	10.19	0.0733	23	1	100	1
9/20/2012	1:34 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.142	0	0	0	0.002	76.6	53	58.2	76.7	9.65	0.0733	24	1	100	1
9/20/2012	1:35 PM	68.1	68.2	68.1	68	57.1	3	ESE	0.05	5	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.6	52	57.7	76.6	9.52	0.0734	22	1	95.7	1
9/20/2012	1:36 PM	68.1	68.1	68.1	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.141	0	0	0	0.002	76.4	52	57.5	76.5	9.52	0.0734	23	1	100	1
9/20/2012	1:37 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	23	1	100	1
9/20/2012	1:38 PM	68.1	68.2	68.1	68	57.1	1	ESE	0.02	3	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	23	1	100	1
9/20/2012	1:39 PM	68.1	68.1	68.1	67	56.7	3	ESE	0.05	4	ESE	68.1	68.4	68.4	30.143	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	24	1	100	1
9/20/2012	1:40 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.1	52	57.2	76.2	9.53	0.0734	23	1	100	1
9/20/2012	1:41 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	2	ESE	68.1	68.5	68.5	30.139	0	0	0	0.002	76.1	52	57.2	76.2	9.53	0.0734	24	1	100	1
9/20/2012	1:42 PM	68	68.1	68	68	57	1	ESE	0.02	3	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75.9	53	57.5	76.1	9.65	0.0735	23	1	100	1
9/20/2012	1:43 PM	68	68.1	68	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	22	1	95.7	1
9/20/2012	1:44 PM	68	68	68	68	57	2	ESE	0.03	3	ESE	68	68.4	68.4	30.135	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	24	1	100	1
9/20/2012	1:45 PM	67.9	68	67.9	68	56.9	2	ESE	0.03	4	ESE	67.9	68.3	68.3	30.135	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0736	23	1	100	1
9/20/2012	1:46 PM	68	68	67.9	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	1:47 PM	68	68	67.9	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.135	0	0	0	0.002	74.9	52	56.1	75.1	9.55	0.0736	23	1	100	1
9/20/2012	1:48 PM	68	68	68	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.138	0	0	0	0.002	74.9	54	57.1	75.3	9.85	0.0736	24	1	100	1
9/20/2012	1:49 PM	68	68	68	68	57	1	ESE	0.02	3	ESE	68	68.4	68.4	30.137	0	0	0	0.002	74.7	53	56.4	74.9	9.66	0.0737	23	1	100	1
9/20/2012	1:50 PM	68.1	68.1	68	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.139	0	0	0	0.002	74.9	53	56.6	75.2	9.65	0.0736	23	1	100	1
9/20/2012	1:51 PM	68.1	68.1	68.1	68	57.1	3	ESE	0.05	5	ESE	68.1	68.5	68.5	30.138	0	0	0	0.002	74.9	53	56.6	75.2	9.65	0.0736	24	1	100	1
9/20/2012	1:52 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	5	ESE	68.1	68.5	68.5	30.137	0	0	0	0.002	75	53	56.7	75.3	9.65	0.0736	23	1	100	1
9/20/2012	1:53 PM	68.2	68.2	68.2	68	57.2	4	E	0.07	8	E	68.2	68.6	68.6	30.136	0	0	0	0.002	75	54	57.2	75.4	9.85	0.0736	23	1	100	1
9/20/2012	1:54 PM	68.2	68.2	68.2	68	57.2	3	E	0.05	6	E	68.2	68.6	68.6	30.132	0	0	0	0.002	75	53	56.7	75.3	9.65	0.0736	23	1	100	1
9/20/2012	1:55 PM	68.2	68.2	68.2	68	57.2	3	E	0.05	6	E	68.2	68.6	68.6	30.13	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	22	1	95.7	1
9/20/2012	1:56 PM	68.1	68.2	68.1	68	57.1	2	E	0.03	5	E	68.1	68.5	68.5	30.13	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	24	1	100	1
9/20/2012	1:57 PM	68.1	68.1	68.1	68	57.1	3	E	0.05	6	E	68.1	68.5	68.5	30.129	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	22	1	95.7	1
9/20/2012	1:58 PM	68.2	68.2	68.1	68	57.2	4	E	0.07	6	E	68.2	68.6	68.6	30.129	0	0	0	0.002	75.4	53	57.1	75.7	9.65	0.0735	23	1	100	1
9/20/2012	1:59 PM	68.2	68.2	68.1	68	57.2	4	E	0.07	6	E	68.2	68.6	68.6	30.133	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	23	1	100	1
9/20/2012	2:00 PM	68.2	68.2	68.1	68	57.2	2	E	0.03	3	E	68.2	68.6	68.6	30.132	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	14	1	60.9	1
9/20/2012	2:01 PM	68.2	68.2	68.2	68	57.2	1	E	0.02	1	E	68.2	68.6	68.6	30.13	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	3	1	13	1
9/20/2012	2:02 PM	68.2	68.2	68.2	68	57.2	0	E	0	2	E	68.2	68.6	68.6	30.129	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	22	1	95.7	1
9/20/2012	2:03 PM	68.2	68.2	68.2	68	57.2	2	E	0.03	2	E	68.2	68.6	68.6	30.133	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0734	24	1	100	1
9/20/2012	2:04 PM	68.3	68.3	68.2	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.2	51	57.7	77.1	9.35	0.0733	22	1	95.7	1
9/20/2012	2:05 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.5	50	57.4	77.4	9.2	0.0732	23	1	100	1
9/20/2012	2:06 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.129	0	0	0	0.002	77.5	49	56.8	77.3	9	0.0732	23	1	100	1
9/20/2012	2:07 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.7	49	57	77.6	9	0.0732	23	1	100	1
9/20/2012	2:08 PM	68.3	68.3	68.3	67	56.9	1	E	0.02	2	E	68.3	68.6	68.6	30.13	0	0	0	0.002	77.9	49	57.2	77.8	8.99	0.0732	23	1	100	1
9/20/2012	2:09 PM	68.4	68.4	68.3	68	57.4	1	E	0.02	2	E	68.4	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	22	1	95.7	1
9/20/2012	2:10 PM	68.4	68.4	68.4	67	57	1	E	0.02	2	E	68.4	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	24	1	100	1
9/20/2012	2:11 PM	68.5	68.5	68.4	67	57.1	1	E	0.02	3	E	68.5	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	23	1	100	1
9/20/2012	2:12 PM	68.5	68.5	68.5	66	56.7	4	E	0.07	8	E	68.5	68.6	68.6	30.128	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	24	1	100	1
9/20/2012	2:13 PM	68.5	68.5	68.5	66	56.7	2	E	0.03	5	E	68.5	68.6	68.6	30.128	0	0	0	0.002	77.7	49	57	77.6	9	0.0732	23	1	100	1
9/20/2012	2:14 PM	68.5	68.5	68.5	66	56.7	5	E	0.08	6	E	68.5	68.6	68.6	30.129	0	0	0	0.002	77.5	49	56.8	77.3	9	0.0732	23	1	100	1
9/20/2012	2:15 PM	68.5	68.5	68.5	66	56.7	1	E	0.02	3	E	68.5	68.6	68.6	30.127	0	0	0	0.002	77.3	49	56.6	77.1	9	0.0733	24	1	100	1
9/20/2012	2:16 PM	68.5	68.5	68.5	66	56.7	2	E	0.03	5	E	68.5	68.6	68.6	30.13	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0733	23	1	100	1
9/20/2012	2:17 PM	68.5	68.6	68.5	66	56.7	3	ESE	0.05	7	ESE	68.5	68.6	68.6	30.132	0	0	0	0.002	77	50	56.9	76.8	9.21	0.0733	24	1	100	1
9/20/2012	2:18 PM	68.5	68.6	68.5	66	56.7	2	ESE	0.03	5	ESE	68.5	68.6	68.6	30.131	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0733	23	1	100	1
9/20/2012	2:19 PM	68.5	68.6	68.5	66	56.7	3	ESE	0.05	5	ESE	68.5	68.6	68.6	30.133	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0734	23	1	100	1
9/20/2012	2:20 PM	68.5	68.5	68.5	65	56.3	1	ESE	0.02	3	ESE	68.5	68.6	68.6	30.132	0	0	0	0.002	76.6	50	56.6	76.5	9.22	0.0734	24	1	100	1
9/20/2012	2:21 PM	68.5	68.5	68.5	66	56.7	2	ESE	0.03	3	ESE	68.5	68.6	68.6	30.129	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	23	1	100	1
9/20/2012	2:22 PM	68.6	68.6	68.6	66	56.8	2	ESE	0.03	3	ESE	68.6	68.7	68.7	30.128	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	24	1	100	1
9/20/2012	2:23 PM	68.6	68.6	68.6	66	56.8	2	ESE	0.03	5	ESE	68.6	68.7	68.7	30.128	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	23	1	100	1
9/20/2012	2:24 PM	68.6	68.6	68.6	65	56.4	4	ESE	0.07	6	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	24	1	100	1
9/20/2012	2:25 PM	68.6	68.6	68.6	65	56.4	3	SE	0.05	5	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0734	23	1	100	1
9/20/2012	2:26 PM	68.6	68.6	68.6	65	56.4	1	SE	0.02	2	SE	68.6	68.6	68.6	30.125	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	2:27 PM	68.5	68.6	68.5	65	56.3	0	SE	0	1	SE	68.5	68.6	68.6	30.127	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	24	1	100	1
9/20/2012	2:28 PM	68.6	68.6	68.6	65	56.4	0	SE	0	1	SE	68.6	68.6	68.6	30.13	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	23	1	100	1
9/20/2012	2:29 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.13	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	24	1	100	1
9/20/2012	2:30 PM	68.6	68.7	68.6	65	56.4	1	SE	0.02	2	SE	68.6	68.6	68.6	30.131	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	23	1	100	1
9/20/2012	2:31 PM	68.6	68.7	68.6	65	56.4	0	SE	0	1	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	22	1	95.7	1
9/20/2012	2:32 PM	68.6	68.7	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	24	1	100	1
9/20/2012	2:33 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0735	23	1	100	1
9/20/2012	2:34 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	4	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0735	24	1	100	1
9/20/2012	2:35 PM	68.6	68.6	68.6	66	56.8	1	SE	0.02	3	SE	68.6	68.7	68.7	30.13	0	0	0	0.002	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:36 PM	68.7	68.7	68.6	65	56.5	1	SE	0.02	3	SE	68.7	68.7	68.7	30.128	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:37 PM	68.7	68.7	68.7	65	56.5	4	SE	0.07	9	SSE	68.7	68.7	68.7	30.127	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	24	1	100	1
9/20/2012	2:38 PM	68.8	68.8	68.8	64	56.1	5	SSE	0.08	8	SSE	68.8	68.7	68.7	30.13	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:39 PM	68.8	68.8	68.8	62	55.2	4	SSE	0.07	9	S	68.8	68.5	68.5	30.127	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	2:40 PM	68.9	68.9	68.8	62	55.3	4	SSE	0.07	8	SSE	68.9	68.5	68.5	30.128	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	23	1	100	1
9/20/2012	2:41 PM	68.9	68.9	68.9	62	55.3	3	SSE	0.05	4	SSE	68.9	68.5	68.5	30.126	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	2:42 PM	68.9	68.9	68.9	63	55.8	4	SSE	0.07	5	SSE	68.9	68.6	68.6	30.128	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	23	1	100	1
9/20/2012	2:43 PM	69	69	68.9	62	55.4	4	SSE	0.07	6	SE	69	68.6	68.6	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:44 PM	69.1	69.1	69	62	55.5	4	SSE	0.07	7	SSE	69.1	68.7	68.7	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	24	1	100	1
9/20/2012	2:45 PM	69.2	69.2	69.1	62	55.6	5	SSE	0.08	8	SSE	69.2	68.8	68.8	30.128	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:46 PM	69.2	69.2	69.2	62	55.6	3	SE	0.05	6	SE	69.2	68.8	68.8	30.128	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	23	1	100	1
9/20/2012	2:47 PM	69.2	69.2	69.2	62	55.6	2	ESE	0.03	4	SE	69.2	68.8	68.8	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:48 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.126	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:49 PM	69.2	69.2	69.2	63	56.1	4	ESE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:50 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	22	1	95.7	1
9/20/2012	2:51 PM	69.1	69.2	69.1	63	56	6	SSE	0.1	8	SE	69.1	68.8	68.8	30.129	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	24	1	100	1
9/20/2012	2:52 PM	69.1	69.1	69.1	63	56	7	SSE	0.12	10	S	69.1	68.8	68.8	30.127	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	22	1	95.7	1
9/20/2012	2:53 PM	69	69.1	69	64	56.3	6	SSE	0.1	8	SSE	69	68.8	68.8	30.128	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	24	1	100	1
9/20/2012	2:54 PM	68.9	69	68.9	64	56.2	5	SSE	0.08	10	SE	68.9	68.7	68.7	30.13	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	22	1	95.7	1
9/20/2012	2:55 PM	68.9	68.9	68.9	64	56.2	5	S	0.08	7	S	68.9	68.7	68.7	30.126	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	23	1	100	1
9/20/2012	2:56 PM	68.9	68.9	68.8	64	56.2	3	ESE	0.05	5	S	68.9	68.7	68.7	30.128	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	2:57 PM	68.9	68.9	68.8	64	56.2	5	SE	0.08	8	SSE	68.9	68.7	68.7	30.13	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0

Meteorological Data
Equity IRM

9/20/2012	4:18 PM	67.3	67.3	67.2	69	56.8	2	SE	0.03	4	SE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:19 PM	67.3	67.3	67.3	69	56.8	3	SE	0.05	4	SE	67.3	67.7	67.7	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	4:20 PM	67.4	67.4	67.3	69	56.9	3	SSE	0.05	7	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:21 PM	67.4	67.4	67.4	69	56.9	4	SSE	0.07	9	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	23	1	100	1
9/20/2012	4:22 PM	67.4	67.4	67.3	68	56.5	6	SSE	0.1	8	SSE	67.4	67.7	67.7	30.122	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:23 PM	67.3	67.4	67.3	68	56.4	4	SSE	0.07	7	SSE	67.3	67.6	67.6	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	24	1	100	1
9/20/2012	4:24 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:25 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:26 PM	67.3	67.3	67.3	68	56.4	6	SSE	0.1	8	SSE	67.3	67.6	67.6	30.12	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:27 PM	67.3	67.3	67.3	69	56.8	3	E	0.05	7	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:28 PM	67.3	67.3	67.3	69	56.8	3	ESE	0.05	7	E	67.3	67.7	67.7	30.121	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:29 PM	67.3	67.3	67.3	69	56.8	5	SE	0.08	7	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	22	1	95.7	1
9/20/2012	4:30 PM	67.3	67.3	67.2	69	56.8	4	SE	0.07	7	SE	67.3	67.7	67.7	30.121	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	24	1	100	1
9/20/2012	4:31 PM	67.3	67.3	67.2	69	56.8	4	ESE	0.07	8	SSW	67.3	67.7	67.7	30.12	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	21	1	91.3	1
9/20/2012	4:32 PM	67.3	67.3	67.3	69	56.8	5	ESE	0.08	9	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:33 PM	67.2	67.3	67.2	69	56.7	6	SSE	0.1	9	SSE	67.2	67.6	67.6	30.122	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:34 PM	67.2	67.2	67.2	69	56.7	6	S	0.1	10	SSE	67.2	67.6	67.6	30.123	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	22	1	95.7	1
9/20/2012	4:35 PM	67.1	67.1	67.1	69	56.6	6	SSE	0.1	10	SSE	67.1	67.4	67.4	30.123	0	0	0	0.001	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:36 PM	67	67.1	67	69	56.5	5	SSE	0.08	10	SE	67	67.3	67.3	30.121	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	22	1	95.7	1
9/20/2012	4:37 PM	67	67	67	69	56.5	6	SSE	0.1	8	SSE	67	67.3	67.3	30.121	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	24	1	100	1
9/20/2012	4:38 PM	66.9	67	66.9	69	56.4	6	SSE	0.1	11	SSE	66.9	67.2	67.2	30.123	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	22	1	95.7	1
9/20/2012	4:39 PM	66.9	66.9	66.9	69	56.4	5	SE	0.08	9	SE	66.9	67.2	67.2	30.123	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	24	1	100	1
9/20/2012	4:40 PM	66.8	66.9	66.8	70	56.7	7	SE	0.12	9	SE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	22	1	95.7	1
9/20/2012	4:41 PM	66.8	66.8	66.8	70	56.7	6	SE	0.1	9	SE	66.8	67.2	67.2	30.123	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	22	1	95.7	1
9/20/2012	4:42 PM	66.8	66.8	66.8	70	56.7	6	SE	0.1	10	SE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	24	1	100	1
9/20/2012	4:43 PM	66.7	66.8	66.7	70	56.6	7	SSE	0.12	9	SSE	66.7	67	67	30.123	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	23	1	100	1
9/20/2012	4:44 PM	66.7	66.8	66.7	70	56.6	6	SSE	0.1	9	SSE	66.7	67	67	30.123	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	24	1	100	1
9/20/2012	4:45 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	10	SSE	66.7	67	67	30.124	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	23	1	100	1
9/20/2012	4:46 PM	66.7	66.7	66.7	70	56.6	3	S	0.05	5	S	66.7	67	67	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	22	1	95.7	1
9/20/2012	4:47 PM	66.8	66.8	66.7	70	56.7	3	ESE	0.05	5	ESE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	24	1	100	1
9/20/2012	4:48 PM	66.8	66.8	66.8	70	56.7	5	S	0.08	12	S	66.8	67.2	67.2	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	22	1	95.7	1
9/20/2012	4:49 PM	66.8	66.8	66.8	70	56.7	7	SSE	0.12	11	S	66.8	67.2	67.2	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	24	1	100	1
9/20/2012	4:50 PM	66.8	66.8	66.8	70	56.7	9	SSE	0.15	12	SSE	65.5	67.2	65.9	30.123	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.074	22	1	95.7	1
9/20/2012	4:51 PM	66.8	66.8	66.8	70	56.7	4	SSE	0.07	7	ESE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.0741	24	1	100	1
9/20/2012	4:52 PM	66.8	66.8	66.7	70	56.7	5	SSE	0.08	8	SSE	66.8	67.2	67.2	30.122	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.074	23	1	100	1
9/20/2012	4:53 PM	66.7	66.8	66.7	70	56.6	6	SSE	0.1	10	SSE	66.7	67	67	30.124	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.0741	23	1	100	1
9/20/2012	4:54 PM	66.7	66.8	66.7	70	56.6	7	SE	0.12	12	SE	66.7	67	67	30.124	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:55 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	9	SE	66.7	67	67	30.121	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:56 PM	66.7	66.7	66.7	70	56.6	5	SSE	0.08	7	SSE	66.7	67	67	30.122	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	24	1	100	1
9/20/2012	4:57 PM	66.6	66.7	66.6	70	56.5	6	SSE	0.1	10	SE	66.6	66.9	66.9	30.123	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:58 PM	66.6	66.7	66.6	70	56.5	7	SSE	0.12	11	SSE	66.6	66.9	66.9	30.124	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:59 PM	66.6	66.7	66.6	70	56.5	5	ESE	0.08	8	SE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	24	1	100	1
9/20/2012	5:00 PM	66.6	66.6	66.6	70	56.5	7	SE	0.12	10	SE	66.6	66.9	66.9	30.122	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:01 PM	66.6	66.6	66.6	70	56.5	6	SSE	0.1	8	SSE	66.6	66.9	66.9	30.12	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:02 PM	66.6	66.6	66.6	70	56.5	3	SSE	0.05	5	S	66.6	66.9	66.9	30.121	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:03 PM	66.6	66.6	66.6	70	56.5	5	ESE	0.08	9	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	24	1	100	1
9/20/2012	5:04 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	10	ESE	66.7	67	67	30.12	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:05 PM	66.7	66.7	66.7	70	56.6	4	SE	0.07	7	SE	66.7	67	67	30.119	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:06 PM	66.7	66.7	66.7	70	56.6	4	ESE	0.07	10	SSE	66.7	67	67	30.119	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	24	1	100	1
9/20/2012	5:07 PM	66.7	66.7	66.6	70	56.6	6	SE	0.1	8	SE	66.7	67	67	30.118	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:08 PM	66.7	66.7	66.6	70	56.6	7	SE	0.12	12	SSE	66.7	67	67	30.119	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:09 PM	66.6	66.7	66.6	70	56.5	6	SSE	0.1	10	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:10 PM	66.6	66.6	66.6	70	56.5	5	SE	0.08	7	SSE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:11 PM	66.6	66.6	66.6	70	56.5	4	SE	0.07	9	SE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	24	1	100	1
9/20/2012	5:12 PM	66.6	66.6	66.6	70	56.5	5	ESE	0.08	10	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:13 PM	66.6	66.7	66.6	70	56.5	5	SSE	0.08	10	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	24	1	100	1
9/20/2012	5:14 PM	66.7	66.7	66.7	70	56.6	7	S	0.12	11	S	66.7	67	67	30.119	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	23	1	100	1
9/20/2012	5:15 PM	66.7	66.7	66.6	70	56.6	6	S	0.1	8	SSE	66.7	67	67	30.117	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	23	1	100	1
9/20/2012	5:16 PM	66.6	66.7	66.6	70	56.5	6	SE	0.1	10	SSE	66.6	66.9	66.9	30.117	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	24	1	100	1
9/20/2012	5:17 PM	66.6	66.6	66.6	70	56.5	5	SSE	0.08	7	S	66.6	66.9	66.9	30.118	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	22	1	95.7	1
9/20/2012	5:18 PM	66.6	66.6	66.6	70	56.5	6	SSE	0.1	9	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	24	1	100	1
9/20/2012	5:19 PM	66.6	66.6	66.6	71	56.9	5	S	0.08	8	ESE	66.6	67	67	30.118	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:20 PM	66.6	66.6	66.6	70	56.5	4	ESE	0.07	9	SE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	24	1	100	1
9/20/2012	5:21 PM	66.6	66.6	66.6	70	56.5	2	ESE	0.03	4	ESE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	22	1	95.7	1
9/20/2012	5:22 PM	66.6	66.6	66.6	70	56.5	5	SSE	0.08	7	SSE	66.6	66.9	66.9	30.117	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:23 PM	66.7	66.7	66.6	70	56.6	4	SSE	0.07	8	SSE	66.7	67	67	30.12	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:24 PM	66.7	66.7	66.7	71	57	5	SSE	0.08	9	ESE	66.7	67.1	67.1	30.121	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	21	1	91.3	1
9/20/2012	5:25 PM	66.7	66.7	66.7	70	56.6	4	SSE	0.07	9	SSE	66.7	67	67	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	24	1	100	1
9/20/2012	5:26 PM	66.7	66.7	66.7	70	56.6	8	SSE	0.13	13	SSE	66.1	67	66.4	30.119	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	22	1	95.7	1
9/20/2012	5:27 PM	66.7	66.7	66.7	70	56.6	5	SSE	0.08	7	S	66.7	67	67	30.118	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:28 PM	66.6	66.7	66.6	70	56.5	8	SSE	0.13	14	SSE	66	66.9	66.3	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:29 PM	66.6	66.6	66.6	70	56.5	7	SE	0.12	11	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:30 PM	66.6	66.6	66.6	70	56.5	7	SSE	0.12	12	SSE	66.6	66.9	66.9	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:31 PM	66.5	66.5	66.5	70	56.4	7	SSE	0.12	11	SSE	66.5	66.8	66.8	30.121	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:32 PM	66.4	66.5	66.4	71	56.7	6	SSE	0.1	8	SE	66.4	66.7	66.7	30.119	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:33 PM	66.4	66.4	66.4	71	56.7	3	ESE	0.05	6	SSE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	22	1	95.7	1
9/20/2012	5:34 PM	66.4	66.5	66.4	71	56.7	8	SSE	0.13	13	SSE	65.8	66.7	66.1	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:35 PM	66.4	66.4	66.4	71	56.7	7	SE	0.12	14	SE	66.4	66.7	66.7	30.123	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	24	1	100	1
9/20/2012	5:36 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	8	SE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:37 PM	66.4	66.4	66.3	71	56.7	5	SSE	0.08	11	S	66.4	66.7	66.7	30.119	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	24	1	100	1
9/20/2012	5:38 PM	66.4	66.4	66.4	71	56.7	3	SSE	0.05	5	SSE	66.4	66.7	66.7	30.122	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:39 PM	66.4	66.4	66.4	71	56.7	5	ESE	0.08	9	SSE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	23	1	100	1
9/20/2012	5:40 PM	66.4	66.4	66.4	71	56.7	5	S	0.08	10	SSE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	24	1	100	1
9/20/2012	5:41 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	8	SE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	23	1	100	1
9/20/2012	5:42 PM	66.4	66.4	66.4	71	56.7	4	SE	0.07	9	SSE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:43 PM	66.4	66.4	66.4	71	56.7	3	SSE	0.05	4	SSE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:44 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	10	ESE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:45 PM	66.4	66.4	66.3	71	56.7	6	SSE	0.1	10	SSE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:46 PM	66.3	66.4	66.3	71	56.6	4	SSE	0.07	8	S	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:47 PM	66.3	66.3	66.3	71	56.6	6	ESE	0.1	11	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:48 PM	66.3	66.3	66.3	71	56.6	4	E	0.07	7	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:49 PM	66.3	66.3	66.3	71	56.6	7	SE	0.12	12	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:50 PM	66.3	66.3	66.3	71	56.6	5	E	0.08	8	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:51 PM	66.3	66.3	66.3	71	56.6	4	SSE	0.07	7	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:52 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	9	SSE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:53 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	7	S	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:54 PM	66.3	66.3	66.3	71	56.6	3	SSE	0.05	7	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	24	1	100	1
9/20/2012	5:55 PM	66.3	66.3	66.3	71	56.6	5	SE	0.08	9	SE	66.3	66.6	66.6	30.122	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	23	1	100	1
9/20/2012	5:56 PM	66.3	66.4	66.3	71	56.6	6	SSE	0.1	11	E	66.3	66.6	66.6	30.122	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	24	1	100	1
9/20/2012	5:57 PM	66.3	66.4	66.3	71	56.6	4	SE	0.07	7	SE	66.3	66.6

Meteorological Data
Equity IRM

9/20/2012	7:18 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	7	SSE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	24	1	100	1
9/20/2012	7:19 PM	65.3	65.3	65.3	74	56.8	3	SSE	0.05	5	SE	65.3	65.6	65.6	30.117	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	22	1	95.7	1
9/20/2012	7:20 PM	65.3	65.3	65.3	74	56.8	3	SE	0.05	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:21 PM	65.3	65.3	65.3	74	56.8	6	SSE	0.1	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:22 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	8	SSE	65.3	65.6	65.6	30.121	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:23 PM	65.2	65.3	65.2	74	56.7	4	SSE	0.07	8	SSE	65.2	65.5	65.5	30.12	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:24 PM	65.2	65.3	65.2	74	56.7	2	SE	0.03	5	S	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:25 PM	65.2	65.3	65.2	74	56.7	3	SSE	0.05	4	SSE	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	22	1	95.7	1
9/20/2012	7:26 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	6	SE	65.2	65.5	65.5	30.122	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	23	1	100	1
9/20/2012	7:27 PM	65.2	65.2	65.2	74	56.7	3	S	0.05	4	ESE	65.2	65.5	65.5	30.121	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	23	1	100	1
9/20/2012	7:28 PM	65.2	65.2	65.2	74	56.7	2	SSE	0.03	3	SSE	65.2	65.5	65.5	30.12	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	24	1	100	1
9/20/2012	7:29 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	9	SSE	65.2	65.5	65.5	30.119	0	0	0	0	66.2	55	49.6	65.1	10.23	0.0751	23	1	100	1
9/20/2012	7:30 PM	65.2	65.2	65.2	74	56.7	3	SSE	0.05	6	S	65.2	65.5	65.5	30.12	0	0	0	0	66.2	55	49.6	65.1	10.23	0.0751	24	1	100	1
9/20/2012	7:31 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	9	ESE	65.2	65.5	65.5	30.12	0	0	0	0	66.2	56	50	65.2	10.43	0.0751	23	1	100	1
9/20/2012	7:32 PM	65.2	65.2	65.1	74	56.7	3	SE	0.05	4	SE	65.2	65.5	65.5	30.117	0	0	0	0	66.2	56	50	65.2	10.43	0.075	23	1	100	1
9/20/2012	7:33 PM	65.1	65.2	65.1	74	56.6	2	S	0.03	5	SE	65.1	65.4	65.4	30.118	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	24	1	100	1
9/20/2012	7:34 PM	65.1	65.1	65.1	74	56.6	1	S	0.02	3	S	65.1	65.4	65.4	30.119	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	23	1	100	1
9/20/2012	7:35 PM	65.1	65.1	65.1	74	56.6	2	S	0.03	3	S	65.1	65.4	65.4	30.12	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	24	1	100	1
9/20/2012	7:36 PM	65.1	65.1	65.1	74	56.6	1	SSE	0.02	2	SSE	65.1	65.4	65.4	30.12	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	21	1	91.3	1
9/20/2012	7:37 PM	65.1	65.1	65.1	74	56.6	1	SSE	0.02	3	SSE	65.1	65.4	65.4	30.121	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:38 PM	65.1	65.1	65.1	74	56.6	3	SE	0.05	5	SSE	65.1	65.4	65.4	30.122	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:39 PM	65	65.1	65	74	56.5	2	SE	0.03	4	SSE	65	65.2	65.2	30.122	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:40 PM	65	65.1	65	74	56.5	4	SE	0.07	6	SE	65	65.2	65.2	30.123	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	24	1	100	1
9/20/2012	7:41 PM	65	65	65	74	56.5	3	SE	0.05	7	SE	65	65.2	65.2	30.122	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	23	1	100	1
9/20/2012	7:42 PM	65	65	65	74	56.5	2	SE	0.03	5	SE	65	65.2	65.2	30.124	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	24	1	100	1
9/20/2012	7:43 PM	65	65	65	74	56.5	3	SE	0.05	5	ESE	65	65.2	65.2	30.125	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	23	1	100	1
9/20/2012	7:44 PM	65	65	64.9	75	56.9	3	SE	0.05	5	SE	65	65.3	65.3	30.123	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	23	1	100	1
9/20/2012	7:45 PM	64.9	65	64.9	75	56.8	2	SE	0.03	4	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	24	1	100	1
9/20/2012	7:46 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	3	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	22	1	95.7	1
9/20/2012	7:47 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	24	1	100	1
9/20/2012	7:48 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	23	1	100	1
9/20/2012	7:49 PM	64.9	64.9	64.9	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	22	1	95.7	1
9/20/2012	7:50 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	24	1	100	1
9/20/2012	7:51 PM	64.9	64.9	64.9	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	22	1	95.7	1
9/20/2012	7:52 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	SE	64.9	65.2	65.2	30.125	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	24	1	100	1
9/20/2012	7:53 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	ESE	64.9	65.2	65.2	30.126	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	23	1	100	1
9/20/2012	7:54 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	5	SE	64.9	65.2	65.2	30.125	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:55 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.124	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:56 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	6	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:57 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	ESE	64.9	65.2	65.2	30.125	0	0	0	0	65.1	56	49	64	10.45	0.0753	24	1	100	1
9/20/2012	7:58 PM	64.9	64.9	64.8	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	7:59 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	ESE	64.9	65.2	65.2	30.125	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	24	1	100	1
9/20/2012	8:00 PM	64.9	64.9	64.9	75	56.8	3	E	0.05	7	SSE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	22	1	95.7	1
9/20/2012	8:01 PM	64.9	64.9	64.9	75	56.8	5	SE	0.08	8	ESE	64.9	65.2	65.2	30.126	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	8:02 PM	64.9	64.9	64.9	75	56.8	4	ESE	0.07	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	8:03 PM	64.9	64.9	64.9	75	56.8	3	SSE	0.05	7	SE	64.9	65.2	65.2	30.126	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	23	1	100	1
9/20/2012	8:04 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	6	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	22	1	95.7	1
9/20/2012	8:05 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	4	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	23	1	100	1
9/20/2012	8:06 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	21	1	91.3	1
9/20/2012	8:07 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	24	1	100	1
9/20/2012	8:08 PM	64.9	64.9	64.9	75	56.8	5	SE	0.08	7	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	21	1	91.3	1
9/20/2012	8:09 PM	64.9	64.9	64.9	75	56.8	3	S	0.05	6	S	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:10 PM	64.9	64.9	64.9	75	56.8	2	SSE	0.03	4	SSE	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:11 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.122	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	22	1	95.7	1
9/20/2012	8:12 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	6	E	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:13 PM	64.9	64.9	64.9	75	56.8	4	SSE	0.07	6	E	64.9	65.2	65.2	30.123	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	21	1	91.3	1
9/20/2012	8:14 PM	64.9	64.9	64.9	75	56.8	3	ESE	0.05	4	SE	64.9	65.2	65.2	30.123	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	24	1	100	1
9/20/2012	8:15 PM	64.9	64.9	64.9	75	56.8	3	ESE	0.05	7	S	64.9	65.2	65.2	30.124	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	21	1	91.3	1
9/20/2012	8:16 PM	64.9	64.9	64.9	75	56.8	4	SE	0.07	8	SE	64.9	65.2	65.2	30.127	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:17 PM	64.9	64.9	64.9	75	56.8	3	E	0.05	5	E	64.9	65.2	65.2	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	22	1	95.7	1
9/20/2012	8:18 PM	64.8	64.9	64.8	75	56.7	2	ESE	0.03	4	ESE	64.8	65.1	65.1	30.125	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:19 PM	64.8	64.9	64.8	75	56.7	2	ESE	0.03	3	ESE	64.8	65.1	65.1	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	22	1	95.7	1
9/20/2012	8:20 PM	64.8	64.8	64.8	75	56.7	1	ESE	0.02	3	ESE	64.8	65.1	65.1	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:21 PM	64.8	64.8	64.8	75	56.7	2	ESE	0.03	6	SSE	64.8	65.1	65.1	30.125	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:22 PM	64.8	64.8	64.8	75	56.7	4	SSE	0.07	8	SSE	64.8	65.1	65.1	30.125	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:23 PM	64.8	64.8	64.7	75	56.7	4	SSE	0.07	7	SSE	64.8	65.1	65.1	30.127	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:24 PM	64.8	64.8	64.8	75	56.7	2	SE	0.03	3	SE	64.8	65.1	65.1	30.127	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:25 PM	64.8	64.8	64.7	75	56.7	1	SE	0.02	3	SE	64.8	65.1	65.1	30.129	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:26 PM	64.7	64.8	64.7	75	56.6	2	SE	0.03	4	SE	64.7	64.9	64.9	30.13	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	24	1	100	1
9/20/2012	8:27 PM	64.7	64.8	64.7	75	56.6	3	SE	0.05	7	SE	64.7	64.9	64.9	30.129	0	0	0	0	64.3	57	48.7	63.2	10.64	0.0754	23	1	100	1
9/20/2012	8:28 PM	64.7	64.7	64.7	75	56.6	2	SE	0.03	5	SE	64.7	64.9	64.9	30.13	0	0	0	0	64.3	57	48.7	63.2	10.64	0.0754	23	1	100	1
9/20/2012	8:29 PM	64.7	64.7	64.7	75	56.6	2	ESE	0.03	5	ESE	64.7	64.9	64.9	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:30 PM	64.7	64.7	64.7	75	56.6	3	ESE	0.05	6	SE	64.7	64.9	64.9	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:31 PM	64.6	64.7	64.6	75	56.5	2	SE	0.03	4	SE	64.6	64.8	64.8	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:32 PM	64.6	64.6	64.6	75	56.5	2	SE	0.03	4	SE	64.6	64.8	64.8	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	22	1	95.7	1
9/20/2012	8:33 PM	64.6	64.6	64.6	75	56.5	2	ESE	0.03	4	ESE	64.6	64.8	64.8	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:34 PM	64.6	64.6	64.6	75	56.5	4	ESE	0.07	6	SE	64.6	64.8	64.8	30.13	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:35 PM	64.6	64.6	64.6	75	56.5	4	SE	0.07	6	SE	64.6	64.8	64.8	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:36 PM	64.6	64.6	64.6	75	56.5	2	ESE	0.03	5	ESE	64.6	64.8	64.8	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:37 PM	64.6	64.6	64.6	75	56.5	5	SSE	0.08	8	SSE	64.6	64.8	64.8	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:38 PM	64.5	64.6	64.5	75	56.4	3	SE	0.05	5	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	24	1	100	1
9/20/2012	8:39 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	3	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:40 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	4	SE	64.5	64.7	64.7	30.13	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	24	1	100	1
9/20/2012	8:41 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	3	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:42 PM	64.5	64.5	64.5	75	56.4	3	E	0.05	6	E	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	22	1	95.7	1
9/20/2012	8:43 PM	64.5	64.5	64.5	75	56.4	3	E	0.05	5	E	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/20/2012	8:44 PM	64.5	64.5	64.5	75	56.4	2	E	0.03	4	SE	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	23	1	100	1
9/20/2012	8:45 PM	64.5	64.5	64.5	75	56.4	3	SE	0.05	5	SE	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/20/2012	8:46 PM	64.4	64.5	64.4	75	56.3	1	SE	0.02	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	23	1	100	1
9/20/2012	8:47 PM	64.4	64.5	64.4	75	56.3	2	SE	0.03	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	22	1	95.7	1
9/20/2012	8:48 PM	64.4	64.4	64.4	75	56.3	2	SE	0.03	4	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	24	1	100	1
9/20/2012	8:49 PM	64.4	64.4	64.4	75	56.3	1	SE	0.02	2	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:50 PM	64.4	64.4	64.4	76	56.7	0	SE	0	1	SE	64.4	64.7	64.7	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	22	1	95.7	1
9/20/2012	8:51 PM	64.4	64.4	64.4	76	56.7	1	SE	0.02	2	SE	64.4	64.7	64.7	30.13	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:52 PM	64.4	64.4	64.4	76	56.7	2	ESE	0.03	3	ESE	64.4	64.7	64.7	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:53 PM	64.4	64.4	64.3	75	56.3	5	SSE	0.08	8	SE	64.4	64.6	64.6	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:54 PM	64.4	64.4	64.3	75	56.3	5	SE	0.08	8	SSE	64.4	64.6	64.6	30.131	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	23	1	100	1
9/20/2012	8:55 PM	64.3	64.4	64.3	76	56.6	2	SE	0.03	5	SE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	24	1	100	1
9/20/2012	8:56 PM	64.3	64.3	64.3	76	56.6	1	SE	0.02	3	SE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	21	1	91.3	1
9/20/2012	8:57 PM	64.3	64.3	64.3	76	56.6	3	SE	0.05	5	SE	64.3	64.5	64.5	30.13	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	24	1	100	1
9/20/2012	8:58 PM	64.3	64.3	64.3	76	56.6	2	SE	0.03	4	ESE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.

Meteorological Data
Equity IRM

9/20/2012	10:18 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	22	1	95.7	1
9/20/2012	10:19 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:20 PM	63.5	63.5	63.5	78	56.5	2	SE	0.03	4	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	23	1	100	1
9/20/2012	10:21 PM	63.5	63.5	63.4	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:22 PM	63.5	63.5	63.4	78	56.5	2	SE	0.03	3	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:23 PM	63.4	63.5	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:24 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:25 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.125	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:26 PM	63.4	63.4	63.4	78	56.4	0	SE	0	3	SE	63.4	63.6	63.6	30.124	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	24	1	100	1
9/20/2012	10:27 PM	63.4	63.4	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.124	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:28 PM	63.3	63.4	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.126	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:29 PM	63.3	63.3	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.126	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	24	1	100	1
9/20/2012	10:30 PM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:31 PM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:32 PM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:33 PM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:34 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	3	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	24	1	100	1
9/20/2012	10:35 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.126	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	22	1	95.7	1
9/20/2012	10:36 PM	63.3	63.3	63.3	79	56.7	0	SE	0	2	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	24	1	100	1
9/20/2012	10:37 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:38 PM	63.2	63.3	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	24	1	100	1
9/20/2012	10:39 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:40 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:41 PM	63.3	63.3	63.2	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	24	1	100	1
9/20/2012	10:42 PM	63.2	63.2	63.2	79	56.6	0	SE	0	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:43 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:44 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	23	1	100	1
9/20/2012	10:45 PM	63.2	63.2	63.2	79	56.6	0	SE	0	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	23	1	100	1
9/20/2012	10:46 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:47 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	22	1	95.7	1
9/20/2012	10:48 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:49 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:50 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:51 PM	63.3	63.3	63.2	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:52 PM	63.3	63.3	63.2	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.13	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:53 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:54 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:55 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:56 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	22	1	95.7	1
9/20/2012	10:57 PM	63.4	63.4	63.3	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	10:58 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	22	1	95.7	1
9/20/2012	10:59 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:00 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:01 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:02 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	24	1	100	1
9/20/2012	11:03 PM	63.5	63.5	63.4	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:04 PM	63.5	63.5	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:05 PM	63.5	63.5	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:06 PM	63.5	63.5	63.5	79	56.9	0	SE	0	2	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:07 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:08 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:09 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:10 PM	63.5	63.6	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:11 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:12 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:13 PM	63.6	63.6	63.5	79	57	1	SE	0.02	1	SE	63.6	63.9	63.9	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:14 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:15 PM	63.6	63.6	63.5	79	57	1	SE	0.02	2	SE	63.6	63.9	63.9	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:16 PM	63.6	63.6	63.5	79	57	0	SE	0	1	SE	63.6	63.9	63.9	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:17 PM	63.5	63.6	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:18 PM	63.5	63.5	63.5	79	56.9	0	SE	0	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:19 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.125	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:20 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:21 PM	63.5	63.5	63.5	79	56.9	2	SE	0.03	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:22 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:23 PM	63.5	63.5	63.4	79	56.9	2	SE	0.03	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:24 PM	63.4	63.5	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:25 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:26 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:27 PM	63.4	63.4	63.3	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:28 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.126	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:29 PM	63.3	63.3	63.3	79	56.7	0	SE	0	2	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:30 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:31 PM	63.2	63.3	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:32 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:33 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:34 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.128	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:35 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:36 PM	63.2	63.2	63.1	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:37 PM	63.1	63.2	63.1	79	56.5	1	SE	0.02	2	SE	63.1	63.3	63.3	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:38 PM	63.1	63.1	63.1	80	56.8	0	SE	0	2	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:39 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:40 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	3	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:41 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	3	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:42 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	4	SE	63.1	63.4	63.4	30.128	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:43 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:44 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/20/2012	11:45 PM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:46 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:47 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:48 PM	63.1	63.1	63	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:49 PM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.131	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:50 PM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:51 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/20/2012	11:52 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:53 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:54 PM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:55 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:56 PM	63	63.1	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:57 PM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/20/2012	11:58 PM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2

Meteorological Data
Equity IRM

9/21/2012	1:18 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:19 AM	63	63	62.9	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:20 AM	63	63	62.9	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:21 AM	63	63	63	80	56.7	1	SE	0.02	3	SE	63	63.3	63.3	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:22 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:23 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:24 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:25 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:26 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:27 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:28 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:29 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:30 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:31 AM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:32 AM	63	63.1	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.119	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:33 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:34 AM	63	63.1	63	80	56.7	1	SE	0.02	1	SE	63	63.3	63.3	30.119	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:35 AM	63	63.1	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:36 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:37 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:38 AM	63	63	63	80	56.7	2	SE	0.03	3	ESE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:39 AM	63.1	63.1	63	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:40 AM	63.1	63.1	63	80	56.8	0	ESE	0	1	ESE	63.1	63.4	63.4	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:41 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.122	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:42 AM	63.1	63.1	63	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:43 AM	63.1	63.1	63.1	80	56.8	2	ESE	0.03	2	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:44 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	3	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:45 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.124	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:46 AM	63.1	63.1	63.1	80	56.8	0	ESE	0	1	ESE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:47 AM	63.1	63.1	63.1	80	56.8	1	SE	0.02	3	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:48 AM	63.1	63.1	63.1	79	56.5	1	SE	0.02	2	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:49 AM	63.1	63.1	63.1	79	56.5	0	SE	0	1	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:50 AM	63.1	63.1	63.1	79	56.5	0	SE	0	1	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:51 AM	63.2	63.2	63.1	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:52 AM	63.2	63.2	63.2	79	56.6	2	SE	0.03	4	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/21/2012	1:53 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:54 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:55 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:56 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:57 AM	63.3	63.3	63.2	79	56.7	1	SE	0.02	1	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:58 AM	63.2	63.3	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:59 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:00 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.124	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	2:01 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	1	SE	63.3	63.5	63.5	30.123	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:02 AM	63.3	63.4	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.123	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	2:03 AM	63.4	63.4	63.3	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.121	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:04 AM	63.4	63.4	63.4	78	56.4	2	SE	0.03	4	SE	63.4	63.6	63.6	30.121	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:05 AM	63.4	63.4	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0761	24	1	100	1
9/21/2012	2:06 AM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	2:07 AM	63.4	63.4	63.3	78	56.4	1	SE	0.02	3	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:08 AM	63.3	63.4	63.3	78	56.3	3	SE	0.05	4	SE	63.3	63.5	63.5	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:09 AM	63.4	63.4	63.3	78	56.4	2	SE	0.03	4	SE	63.4	63.6	63.6	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:10 AM	63.4	63.4	63.3	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:11 AM	63.3	63.4	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:12 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:13 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:14 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:15 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:16 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:17 AM	63.3	63.3	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:18 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.113	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:19 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.113	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:20 AM	63.3	63.3	63.2	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	21	1	91.3	1
9/21/2012	2:21 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:22 AM	63.2	63.2	63.2	78	56.2	0	SE	0	2	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:23 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.11	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:24 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:25 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.11	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:26 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:27 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:28 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:29 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:30 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:31 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:32 AM	63.2	63.3	63.2	78	56.2	0	---	0	0	---	63.2	63.4	63.4	30.109	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:33 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:34 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:35 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	21	1	91.3	1
9/21/2012	2:36 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:37 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:38 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:39 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:40 AM	63.3	63.3	63.3	78	56.3	0	---	0	0	---	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:41 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:42 AM	63.3	63.3	63.3	78	56.3	0	---	0	0	---	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:43 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:44 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	ESE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:45 AM	63.3	63.3	63.3	78	56.3	1	ESE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:46 AM	63.3	63.3	63.3	78	56.3	0	ESE	0	1	ESE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:47 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:48 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:49 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:50 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:51 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:52 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:53 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:54 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:55 AM	63.2	63.3	63.2	77	55.9	1	SE	0.02	2	SE	63.2	63.3	63.3	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:56 AM	63.2	63.3	63.2	78	56.2	0	SE	0	2	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:57 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:58 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	4	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
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Meteorological Data
Equity IRM

9/21/2012	4:18 AM	62	62.1	62	79	55.4	0	---	0	0	---	62	62.1	62.1	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:19 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	22	1	95.7	1
9/21/2012	4:20 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:21 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:22 AM	62	62	62	80	55.8	0	SE	0	1	SE	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:23 AM	61.9	62	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:24 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.092	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:25 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	24	1	100	1
9/21/2012	4:26 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:27 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	24	1	100	1
9/21/2012	4:28 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:29 AM	61.8	61.8	61.8	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	24	1	100	1
9/21/2012	4:30 AM	61.8	61.8	61.8	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:31 AM	61.8	61.8	61.7	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:32 AM	61.7	61.7	61.7	80	55.5	0	---	0	0	---	61.7	61.8	61.8	30.098	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	24	1	100	1
9/21/2012	4:33 AM	61.7	61.7	61.7	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.097	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:34 AM	61.7	61.7	61.6	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.097	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	24	1	100	1
9/21/2012	4:35 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.096	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:36 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.095	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:37 AM	61.6	61.6	61.6	79	55	0	SE	0	1	SE	61.6	61.6	61.6	30.094	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:38 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:39 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:40 AM	61.6	61.6	61.6	79	55	0	SE	0	1	SE	61.6	61.6	61.6	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	23	1	100	1
9/21/2012	4:41 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.093	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:42 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	23	1	100	1
9/21/2012	4:43 AM	61.7	61.7	61.7	79	55.1	0	SE	0	1	SE	61.7	61.8	61.8	30.092	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	22	1	95.7	1
9/21/2012	4:44 AM	61.8	61.8	61.7	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.093	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:45 AM	61.8	61.8	61.7	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.091	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	22	1	95.7	1
9/21/2012	4:46 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:47 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	22	1	95.7	1
9/21/2012	4:48 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:49 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:50 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.096	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:51 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:52 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.096	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:53 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:54 AM	61.8	61.8	61.8	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.093	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:55 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:56 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	24	1	100	1
9/21/2012	4:57 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:58 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	24	1	100	1
9/21/2012	4:59 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	5:00 AM	61.8	61.8	61.7	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	5:01 AM	61.7	61.8	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.092	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0763	24	1	100	1
9/21/2012	5:02 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.093	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:03 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:04 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:05 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:06 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:07 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:08 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	24	1	100	1
9/21/2012	5:09 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:10 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.095	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	24	1	100	1
9/21/2012	5:11 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	21	1	91.3	1
9/21/2012	5:12 AM	61.5	61.6	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:13 AM	61.5	61.5	61.4	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:14 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:15 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.095	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:16 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.095	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:17 AM	61.4	61.4	61.4	81	55.5	0	---	0	0	---	61.4	61.5	61.5	30.096	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	23	1	100	1
9/21/2012	5:18 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:19 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.097	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	23	1	100	1
9/21/2012	5:20 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.097	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:21 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.098	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:22 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.097	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0764	24	1	100	1
9/21/2012	5:23 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:24 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:25 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:26 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:27 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:28 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.102	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:29 AM	61.3	61.4	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:30 AM	61.3	61.4	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:31 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:32 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:33 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:34 AM	61.4	61.4	61.3	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.099	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:35 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:36 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	22	1	95.7	1
9/21/2012	5:37 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:38 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:39 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:40 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	60	43.6	56.1	11.1	0.0765	23	1	100	1
9/21/2012	5:41 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	22	1	95.7	1
9/21/2012	5:42 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:43 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	60	43.6	56.1	11.1	0.0765	22	1	95.7	1
9/21/2012	5:44 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.3	59	43.1	55.9	10.95	0.0765	24	1	100	1
9/21/2012	5:45 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:46 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:47 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	59	43.1	55.9	10.95	0.0765	23	1	100	1
9/21/2012	5:48 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:49 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:50 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:51 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:52 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:53 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.099	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:54 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:55 AM	61.5	61.5	61.4	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	60	43.3	55.8	11.09	0.0765	23	1	100	1
9/21/2012	5:56 AM	61.5	61.5	61.5	80	55.3	0	SE	0	2	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	5:57 AM	61.5	61.5	61.5	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	21	1	91.3	1
9/21/2012	5:58 AM	61.6	61.6	61.5	80	55.4	0	SE	0	1	SE	61.6	61.7	61.7	30.1	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	5:59 AM	61.6	61.6	61.6	80	55

Meteorological Data
Equity IRM

9/21/2012	7:18 AM	62.1	62.1	62	77	54.8	1	SE	0.02	3	SE	62.1	62.1	62.1	30.112	0	0	0.002	0	57.1	65	45.4	56.1	12.17	0.0765	24	1	100	1
9/21/2012	7:19 AM	62.1	62.1	62	77	54.8	1	SE	0.02	4	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.3	65	45.6	56.3	12.16	0.0765	23	1	100	1
9/21/2012	7:20 AM	62.1	62.1	62.1	77	54.8	0	SE	0	1	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	24	1	100	1
9/21/2012	7:21 AM	62.1	62.1	62.1	77	54.8	0	---	0	0	---	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	23	1	100	1
9/21/2012	7:22 AM	62.2	62.2	62.1	77	54.9	0	---	0	0	---	62.2	62.2	62.2	30.113	0	0	0.002	0	57.6	64	45.5	56.5	11.95	0.0764	22	1	95.7	1
9/21/2012	7:23 AM	62.2	62.2	62.1	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.112	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	24	1	100	1
9/21/2012	7:24 AM	62.2	62.2	62.2	77	54.9	1	SE	0.02	1	SE	62.2	62.2	62.2	30.114	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	23	1	100	1
9/21/2012	7:25 AM	62.2	62.2	62.2	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.115	0	0	0.002	0	57.9	64	45.8	56.8	11.93	0.0764	24	1	100	1
9/21/2012	7:26 AM	62.3	62.3	62.2	77	55	1	SE	0.02	1	SE	62.3	62.3	62.3	30.116	0	0	0.002	0	58.1	68	47.6	57.2	12.83	0.0763	23	1	100	1
9/21/2012	7:27 AM	62.3	62.3	62.3	77	55	0	SE	0	2	SE	62.3	62.3	62.3	30.116	0	0	0.002	0	58.2	67	47.3	57.3	12.62	0.0763	23	1	100	1
9/21/2012	7:28 AM	62.4	62.4	62.3	77	55.1	0	SE	0	1	SE	62.4	62.4	62.4	30.115	0	0	0.002	0	58.4	67	47.5	57.5	12.61	0.0763	24	1	100	1
9/21/2012	7:29 AM	62.4	62.4	62.4	77	55.1	0	SE	0	1	SE	62.4	62.4	62.4	30.115	0	0	0.002	0	58.4	66	47.1	57.4	12.38	0.0763	23	1	100	1
9/21/2012	7:30 AM	62.5	62.5	62.4	77	55.2	1	SE	0.02	2	SE	62.5	62.5	62.5	30.115	0	0	0.002	0	58.5	66	47.2	57.6	12.38	0.0762	24	1	100	1
9/21/2012	7:31 AM	62.5	62.5	62.5	77	55.2	0	SE	0	2	SE	62.5	62.5	62.5	30.114	0	0	0.002	0	58.5	65	46.8	57.5	12.11	0.0763	23	1	100	1
9/21/2012	7:32 AM	62.6	62.6	62.5	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.116	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	24	1	100	1
9/21/2012	7:33 AM	62.6	62.6	62.5	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	23	1	100	1
9/21/2012	7:34 AM	62.6	62.6	62.6	76	54.9	1	SE	0.02	3	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	23	1	100	1
9/21/2012	7:35 AM	62.7	62.7	62.6	76	55	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	24	1	100	1
9/21/2012	7:36 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.116	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:37 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	24	1	100	1
9/21/2012	7:38 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.117	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:39 AM	62.6	62.7	62.6	76	54.9	0	SE	0	1	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:40 AM	62.6	62.7	62.6	77	55.3	0	SE	0	1	SE	62.6	62.6	62.6	30.114	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	24	1	100	1
9/21/2012	7:41 AM	62.7	62.7	62.6	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.114	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:42 AM	62.6	62.7	62.6	77	55.3	0	---	0	0	---	62.6	62.6	62.6	30.113	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	24	1	100	1
9/21/2012	7:43 AM	62.7	62.7	62.6	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:44 AM	62.7	62.7	62.7	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	24	1	100	1
9/21/2012	7:45 AM	62.7	62.7	62.6	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	22	1	95.7	1
9/21/2012	7:46 AM	62.7	62.7	62.7	77	55.4	1	SE	0.02	2	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:47 AM	62.7	62.7	62.7	77	55.4	1	SE	0.02	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:48 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.114	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	22	1	95.7	1
9/21/2012	7:49 AM	62.7	62.7	62.7	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	24	1	100	1
9/21/2012	7:50 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	22	1	95.7	1
9/21/2012	7:51 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:52 AM	62.7	62.7	62.7	76	55	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:53 AM	62.7	62.7	62.7	76	55	1	SE	0.02	2	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:54 AM	62.7	62.8	62.7	76	55	2	SE	0.03	3	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:55 AM	62.8	62.8	62.7	76	55.1	1	SE	0.02	2	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:56 AM	62.8	62.8	62.7	76	55.1	1	SE	0.02	3	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	22	1	95.7	1
9/21/2012	7:57 AM	62.8	62.8	62.8	76	55.1	1	SE	0.02	3	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:58 AM	62.9	62.9	62.8	76	55.2	1	ESE	0.02	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	7:59 AM	62.9	62.9	62.8	76	55.2	1	ESE	0.02	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	8:00 AM	62.9	62.9	62.9	76	55.2	2	ESE	0.03	4	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	8:01 AM	62.9	62.9	62.9	76	55.2	2	ESE	0.03	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	24	1	100	1
9/21/2012	8:02 AM	63	63	62.9	75	54.9	2	ESE	0.03	3	ESE	63	62.9	62.9	30.117	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	23	1	100	1
9/21/2012	8:03 AM	63	63	62.9	75	54.9	2	ESE	0.03	3	ESE	63	62.9	62.9	30.118	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	23	1	100	1
9/21/2012	8:04 AM	63	63	63	75	54.9	0	ESE	0	2	ESE	63	62.9	62.9	30.118	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	24	1	100	1
9/21/2012	8:05 AM	63	63	63	75	54.9	0	ESE	0	2	ESE	63	62.9	62.9	30.119	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	23	1	100	1
9/21/2012	8:06 AM	63.1	63.1	63	75	55	1	ESE	0.02	2	ESE	63.1	63	63	30.117	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	24	1	100	1
9/21/2012	8:07 AM	63.1	63.1	63	75	55	1	ESE	0.02	2	ESE	63.1	63	63	30.119	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	23	1	100	1
9/21/2012	8:08 AM	63.1	63.1	63.1	75	55	1	ESE	0.02	3	ESE	63.1	63	63	30.119	0	0	0.001	0	59.9	66	48.5	59.1	12.35	0.076	23	1	100	1
9/21/2012	8:09 AM	63.2	63.2	63.2	75	55.1	1	ESE	0.02	3	ESE	63.2	63.1	63.1	30.12	0	0	0.001	0	60	66	48.6	59.2	12.35	0.076	24	1	100	1
9/21/2012	8:10 AM	63.2	63.2	63.2	75	55.1	0	ESE	0	1	ESE	63.2	63.1	63.1	30.121	0	0	0.001	0	60.2	66	48.8	59.4	12.34	0.076	23	1	100	1
9/21/2012	8:11 AM	63.3	63.3	63.2	75	55.2	0	ESE	0	1	ESE	63.3	63.3	63.3	30.118	0	0	0.001	0	60.3	66	48.9	59.5	12.34	0.0759	24	1	100	1
9/21/2012	8:12 AM	63.4	63.4	63.3	75	55.3	1	ESE	0.02	3	ESE	63.4	63.4	63.4	30.118	0	0	0.001	0	60.5	66	49.1	59.7	12.33	0.0759	23	1	100	1
9/21/2012	8:13 AM	63.4	63.4	63.4	75	55.3	1	ESE	0.02	2	ESE	63.4	63.4	63.4	30.117	0	0	0.001	0	60.5	65	48.7	59.7	12.04	0.0759	24	1	100	1
9/21/2012	8:14 AM	63.6	63.6	63.5	74	55.2	1	ESE	0.02	3	ESE	63.6	63.6	63.6	30.118	0	0	0.001	0	60.7	65	48.9	59.9	12.04	0.0759	23	1	100	1
9/21/2012	8:15 AM	63.7	63.7	63.6	74	55.3	1	ESE	0.02	2	ESE	63.7	63.7	63.7	30.118	0	0	0.001	0	60.8	65	49	60	12.03	0.0759	23	1	100	1
9/21/2012	8:16 AM	63.9	63.9	63.7	74	55.4	2	ESE	0.03	3	ESE	63.9	63.9	63.9	30.116	0	0	0.001	0	61	65	49.1	60.2	12.03	0.0758	24	1	100	1
9/21/2012	8:17 AM	64	64	63.9	73	55.2	3	ESE	0.05	4	ESE	64	64	64	30.119	0	0	0.001	0	61.1	65	49.2	60.3	12.03	0.0758	23	1	100	1
9/21/2012	8:18 AM	64	64	64	73	55.2	1	ESE	0.02	3	ESE	64	64	64	30.117	0	0	0.001	0	61.3	65	49.4	60.5	12.02	0.0758	24	1	100	1
9/21/2012	8:19 AM	64.1	64.1	64	73	55.3	1	ESE	0.02	3	ESE	64.1	64.1	64.1	30.118	0	0	0.001	0	61.4	65	49.5	60.6	12.02	0.0758	23	1	100	1
9/21/2012	8:20 AM	64.3	64.3	64.1	72	55.1	2	ESE	0.03	3	ESE	64.3	64.3	64.3	30.116	0	0	0	0	61.6	65	49.7	60.9	12.02	0.0757	23	1	100	1
9/21/2012	8:21 AM	64.3	64.3	64.3	72	55.1	2	ESE	0.03	3	ESE	64.3	64.3	64.3	30.118	0	0	0	0	61.8	65	49.9	61.1	12.01	0.0757	24	1	100	1
9/21/2012	8:22 AM	64.4	64.4	64.4	72	55.2	3	ESE	0.05	3	ESE	64.4	64.4	64.4	30.118	0	0	0	0	61.9	65	50	61.2	12.01	0.0757	23	1	100	1
9/21/2012	8:23 AM	64.4	64.4	64.4	71	54.8	1	ESE	0.02	3	ESE	64.4	64.3	64.3	30.12	0	0	0	0	62.1	65	50.2	61.4	12.01	0.0756	24	1	100	1
9/21/2012	8:24 AM	64.5	64.5	64.4	72	55.3	1	ESE	0.02	2	ESE	64.5	64.5	64.5	30.12	0	0	0	0	62.2	65	50.3	61.5	12.01	0.0756	23	1	100	1
9/21/2012	8:25 AM	64.5	64.5	64.5	71	54.9	1	ESE	0.02	3	ESE	64.5	64.5	64.5	30.114	0	0	0	0	62.4	65	50.5	61.7	12	0.0756	24	1	100	1
9/21/2012	8:26 AM	64.5	64.5	64.5	71	54.9	2	ESE	0.03	3	ESE	64.5	64.5	64.5	30.115	0	0	0	0	62.5	65	50.6	61.8	12	0.0756	23	1	100	1
9/21/2012	8:27 AM	64.5	64.5	64.4	71	54.9	1	ESE	0.02	2	ESE	64.5	64.5	64.5	30.113	0	0	0	0	62.9	64	50.5	62.2	11.79	0.0755	23	1	100	1
9/21/2012	8:28 AM	64.4	64.5	64.4	71	54.8	2	E	0.03	5	E	64.4	64.3	64.3	30.114	0	0	0	0	63	64	50.6	62.3	11.79	0.0755	24	1	100	1
9/21/2012	8:29 AM	64.5	64.5	64.4	71	54.9	1	E	0.02	2	E	64.5	64.5	64.5	30.115	0	0	0	0	63.2	64	50.8	62.5	11.79	0.0754	23	1	100	1
9/21/2012	8:30 AM	64.5	64.5	64.5	71	54.9	2	ESE	0.03	4	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.3	64	50.9	62.6	11.78	0.0754	24	1	100	1
9/21/2012	8:31 AM	64.5	64.5	64.5	71	54.9	1	ESE	0.02	3	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.3	64	50.9	62.6	11.78	0.0754	23	1	100	1
9/21/2012	8:32 AM	64.4	64.5	64.4	71	54.8	1	ESE	0.02	2	ESE	64.4	64.3	64.3	30.114	0	0	0	0	63.5	64	51.1	62.9	11.78	0.0754	23	1	100	1
9/21/2012	8:33 AM	64.5	64.5	64.5	71	54.9	1	E	0.02	2	E	64.5	64.5	64.5	30.116	0	0	0	0	63.6	64	51.2	63	11.78	0.0754	23	1	100	1
9/21/2012	8:34 AM	64.5	64.5	64.5	71	54.9	1	E	0.02	4	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.8	64	51.4	63.2	11.77	0.0753	23	1	100	1
9/21/2012	8:35 AM	64.5	64.5	64.5	71	54.9	3	SE	0.05	5	SE	64.5	64.5	64.5	30.116	0	0	0	0	63.8	64	51.4	63.2	11.77	0.0753	24	1	100	1
9/21/2012	8:36 AM	64.5	64.5	64.5	71	54.9	2	SE	0.03	4	SE	64.5	64.5	64.5	30.115	0	0	0	0	64	64	51.6	63.4	11.77	0.0753	23	1	100	1
9/21/2012	8:37 AM	64.6	64.6	64.5	71	55	3	SE	0.05	5	E	64.6	64.6	64.6	30.115	0	0	0	0	64.1	64	51.7	63.5	11.77	0.0753	24	1	100	1
9/21/2012	8:38 AM	64.6	64.6	64.6	71	55	2	E	0.03	3	E	64.6	64.6	64.6	30.114	0	0	0	0	64.1	64	51.7	63.5	11.77	0.0753	23	1	100	1
9/21/2012	8:39 AM	64.6	64.7	64.6	70	54.6	3	ESE	0.05	7	ESE	64.6	64.5	64.5	30.114	0	0	0	0	64.3	64	51.9	63.8	11.76	0.0752	22	1	95.7	1
9/21/2012	8:40 AM	64.7	64.7	64.7	70	54.7	3	ESE	0.05	7	ESE	64.7	64.6	64.6	30.114	0	0	0	0	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/21/2012	8:41 AM	64.7	64.7	64.7	70	54.7	3	E	0.05	6	E	64.7	64.6	64.6	30.115	0	0	0	0	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/21/2012	8:42 AM	64.7	64.7	64.7	70	54.7	1	E	0.02	3	E	64.7	64.6	64.6	30.116	0	0	0	0	64.6	63	51.7	64	11.65	0.0752	23	1	100	1
9/21/2012	8:43 AM	64.7	64.7	64.7	70	54.7	3	E	0.05	5	E	64.7	64.6	64.6	30.115	0	0	0	0	64.6	63	51.7	64	11.65	0.0752	23	1	100	1
9/21/2012	8:44 AM	64.7	64.7	64.7	70	54.7	2	E	0.03	3	E	64.7	64.6	64.6	30.116	0	0	0	0	64.8	63	51.9	64.3	11.65	0.0752	22	1	95.7	1
9/21/2012	8:45 AM	64.7	64.7	64.6	70	54.7	3	E	0.05	5	E	64.7	64.6	64.6	30.116	0	0	0	0	64.8	63	51.9	64.3	11.65	0.0752	24	1	100	1
9/21/2012	8:46 AM	64.7	64.7	64.7	70	54.7	2	ESE	0.03	3	ESE	64.7	64.6	64.6	30.115	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	22	1	95.7	1
9/21/2012	8:47 AM	64.7	64.7	64.7	70	54.7	2	E	0.03	5	E	64.7	64.6	64.6	30.114	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	23	1	100	1
9/21/2012	8:48 AM	64.8	64.8	64.7	70	54.8	2	E	0.03	3	E	64.8	64.8	64.8	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	23	1	100	1
9/21/2012	8:49 AM	64.8	64.8	64.8	69	54.4	3	E	0.05	6	E	64.8	64.7	64.7	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	22	1	95.7	1
9/21/2012	8:50 AM	64.9	64.9	64.8	70	54.9	2	E	0.03	5	E	64.9	64.9	64.9	30.117	0	0	0	0	65.3	63	52.4	64.8	11.64	0.0751	24	1	100	1
9/21/2012	8:51 AM	64.9	64.9	64.9	69	54.5	2	E	0.03	3	ESE	64.9	64.8	64.8	30.118	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	22	1	95.7	1
9/21/2012	8:52 AM	65	65	64.9	69	54.6	2	ESE	0.03	3	ESE	65	64.9	64.9	30.117	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	24	1	100	1
9/21/2012	8:53 AM	65.1	65.1	65	69	54.7	3	ESE	0.05	4	ESE	65.1	65.1	65.1	30.115	0	0	0	0	65.6	63	52.7	65.2	11.64	0.075	23	1	100	1
9/21/2012	8:54 AM	65.2	65.2	65.1	69	54.8	3	ESE	0.05	4	ESE	65.2	65.2	65.2	30.117	0	0	0	0	65.8	63	52.9	65.4	11.63	0.075	23	1	100	1
9/21/2012	8:55 AM	65.2	65.2	65.2	69	54.8	1	ESE	0.02	2	ESE	65.2	65.2	65.2	30.116	0	0	0	0	65.8	63	52.9	65.4	11.63	0.075	23	1	100	1
9/21/2012	8:56 AM	65.3	65.3	65.2	69	54.9	1	ESE	0.02	4	ESE	65.3	65.3	65.3	30.118	0	0	0	0	65.9	63	52.9	65.5	11.63	0.075	23	1	100	1
9/21/2012	8:57 AM	65.4	65.4	65.4	69	55	3	ESE	0.05	5	ESE	65.4	65.4	65.4	30.115	0	0	0	0	66.1	63	53.1	65.7	11.63	0.0749	24	1	100	1
9/21/2012	8:58 AM	65.5	65.5	65.5	69	55.1	1	ESE	0.02	3	ESE	65.5	65.5	65.5	30.117	0	0	0	0	66.1	62	52.7	65.6	11.43	0.075

Meteorological Data
Equity IRM

9/21/2012	10:18 AM	69.2	69.2	69.1	59	54.3	2	SE	0.03	4	SSE	69.2	68.5	68.5	30.111	0	0	0	0.003	76.3	53	57.9	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:19 AM	69.2	69.2	69.2	59	54.3	2	SE	0.03	4	SE	69.2	68.5	68.5	30.112	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:20 AM	69.3	69.3	69.2	59	54.4	1	SE	0.02	2	SE	69.3	68.6	68.6	30.111	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:21 AM	69.5	69.5	69.4	59	54.5	2	ESE	0.03	4	ESE	69.5	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	23	1	100	1
9/21/2012	10:22 AM	69.6	69.6	69.6	58	54.2	4	SSE	0.07	6	SSE	69.6	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	22	1	95.7	1
9/21/2012	10:23 AM	69.6	69.6	69.6	58	54.2	3	SE	0.05	7	SE	69.6	68.7	68.7	30.111	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0733	24	1	100	1
9/21/2012	10:24 AM	69.7	69.7	69.6	58	54.3	1	SE	0.02	2	SE	69.7	68.8	68.8	30.11	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0732	22	1	95.7	1
9/21/2012	10:25 AM	69.8	69.8	69.7	58	54.4	1	SE	0.02	2	SE	69.8	68.8	68.8	30.112	0	0	0	0.003	77	52	58	77	9.51	0.0732	23	1	100	1
9/21/2012	10:26 AM	69.9	69.9	69.8	57	54	2	SE	0.03	3	SE	69.9	68.8	68.8	30.111	0	0	0	0.003	77	51	57.5	76.9	9.35	0.0732	23	1	100	1
9/21/2012	10:27 AM	69.9	69.9	69.9	58	54.4	2	SE	0.03	5	SE	69.9	68.9	68.9	30.112	0	0	0	0.003	77.2	51	57.7	77.1	9.35	0.0732	23	1	100	1
9/21/2012	10:28 AM	69.9	69.9	69.9	58	54.4	2	SE	0.03	3	SE	69.9	68.9	68.9	30.11	0	0	0	0.003	77.2	51	57.7	77.1	9.35	0.0732	23	1	100	1
9/21/2012	10:29 AM	69.9	69.9	69.9	58	54.4	2	ESE	0.03	4	ESE	69.9	68.9	68.9	30.113	0	0	0	0.003	77.3	51	57.8	77.3	9.35	0.0732	23	1	100	1
9/21/2012	10:30 AM	70	70	69.9	58	54.5	2	ESE	0.03	3	ESE	70	69	69	30.113	0	0	0	0.003	77.3	51	57.8	77.3	9.35	0.0732	22	1	95.7	1
9/21/2012	10:31 AM	70.1	70.1	70	58	54.6	1	ESE	0.02	3	ESE	70.1	69.1	69.1	30.111	0	0	0	0.004	77.5	51	57.9	77.5	9.35	0.0732	23	1	100	1
9/21/2012	10:32 AM	70.1	70.1	70.1	58	54.6	2	ESE	0.03	4	ESE	70.1	69.1	69.1	30.113	0	0	0	0.004	77.5	51	57.9	77.5	9.35	0.0732	23	1	100	1
9/21/2012	10:33 AM	70.1	70.1	70.1	57	54.2	1	ESE	0.02	2	ESE	70.1	69	69	30.112	0	0	0	0.004	77.7	51	58.1	77.7	9.35	0.0731	23	1	100	1
9/21/2012	10:34 AM	70.2	70.2	70.1	58	54.7	3	SSE	0.05	7	SSE	70.2	69.3	69.3	30.113	0	0	0	0.004	77.7	51	58.1	77.7	9.35	0.0731	23	1	100	1
9/21/2012	10:35 AM	70.2	70.2	70.2	57	54.2	4	SSE	0.07	8	SSE	70.2	69.2	69.2	30.112	0	0	0	0.004	77.9	51	58.3	78	9.35	0.0731	23	1	100	1
9/21/2012	10:36 AM	70.1	70.2	70.1	57	54.2	4	SSE	0.07	6	SSE	70.1	69	69	30.113	0	0	0	0.004	77.9	51	58.3	78	9.35	0.0731	24	1	100	1
9/21/2012	10:37 AM	70.1	70.1	70.1	57	54.2	3	SSE	0.05	5	SE	70.1	69	69	30.111	0	0	0	0.004	78	51	58.4	78.1	9.35	0.0731	23	1	100	1
9/21/2012	10:38 AM	70	70.1	70	57	54.1	3	SSE	0.05	5	SSE	70	68.9	68.9	30.11	0	0	0	0.003	78.2	51	58.6	78.3	9.35	0.073	24	1	100	1
9/21/2012	10:39 AM	69.9	70	69.9	59	54.9	2	E	0.03	5	E	69.9	69	69	30.111	0	0	0	0.003	78.2	50	58	78.2	9.19	0.0731	23	1	100	1
9/21/2012	10:40 AM	69.8	69.9	69.8	57	53.9	1	ESE	0.02	3	ESE	69.8	68.8	68.8	30.112	0	0	0	0.003	78.4	50	58.2	78.5	9.18	0.073	24	1	100	1
9/21/2012	10:41 AM	69.8	69.8	69.8	58	54.4	3	E	0.05	5	E	69.8	68.8	68.8	30.111	0	0	0	0.003	78.4	50	58.2	78.5	9.18	0.073	23	1	100	1
9/21/2012	10:42 AM	69.8	69.8	69.8	58	54.4	4	SSE	0.07	6	SSE	69.8	68.8	68.8	30.113	0	0	0	0.003	78.6	50	58.4	78.7	9.18	0.073	23	1	100	1
9/21/2012	10:43 AM	69.7	69.8	69.7	58	54.3	1	SSE	0.02	3	SSE	69.7	68.8	68.8	30.111	0	0	0	0.003	78.6	50	58.4	78.7	9.18	0.073	24	1	100	1
9/21/2012	10:44 AM	69.6	69.7	69.6	57	53.7	1	SSE	0.02	4	SSE	69.6	68.6	68.6	30.108	0	0	0	0.003	78.6	49	57.8	78.6	8.98	0.073	23	1	100	1
9/21/2012	10:45 AM	69.6	69.6	69.6	59	54.6	3	SSE	0.05	5	SSE	69.6	68.8	68.8	30.108	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	24	1	100	1
9/21/2012	10:46 AM	69.6	69.6	69.6	59	54.6	4	S	0.07	6	S	69.6	68.8	68.8	30.108	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	23	1	100	1
9/21/2012	10:47 AM	69.6	69.6	69.5	58	54.2	2	S	0.03	4	S	69.6	68.7	68.7	30.107	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	23	1	100	1
9/21/2012	10:48 AM	69.5	69.6	69.5	58	54.1	3	SSE	0.05	4	SSE	69.5	68.6	68.6	30.107	0	0	0	0.003	79	49	58.2	79.1	8.97	0.0729	24	1	100	1
9/21/2012	10:49 AM	69.5	69.5	69.5	59	54.5	3	SSE	0.05	6	SSE	69.5	68.7	68.7	30.108	0	0	0	0.003	79	49	58.2	79.1	8.97	0.0729	23	1	100	1
9/21/2012	10:50 AM	69.5	69.5	69.5	58	54.1	2	SSE	0.03	5	SSE	69.5	68.6	68.6	30.11	0	0	0	0.003	79	48	57.6	79	8.87	0.073	24	1	100	1
9/21/2012	10:51 AM	69.7	69.7	69.6	58	54.3	4	SSE	0.07	6	SSE	69.7	68.8	68.8	30.109	0	0	0	0.003	79.2	48	57.8	79.2	8.87	0.0729	23	1	100	1
9/21/2012	10:52 AM	69.7	69.7	69.7	58	54.3	3	SE	0.05	5	SSE	69.7	68.8	68.8	30.111	0	0	0	0.003	79.2	48	57.8	79.2	8.87	0.0729	24	1	100	1
9/21/2012	10:53 AM	69.8	69.8	69.7	58	54.4	0	SE	0	1	SE	69.8	68.8	68.8	30.108	0	0	0	0.003	79.2	49	58.4	79.3	8.97	0.0729	23	1	100	1
9/21/2012	10:54 AM	69.9	69.9	69.8	58	54.4	2	SE	0.03	6	SE	69.9	68.9	68.9	30.108	0	0	0	0.003	79.3	48	57.9	79.3	8.86	0.0729	23	1	100	1
9/21/2012	10:55 AM	69.9	69.9	69.9	57	54	4	SSE	0.07	6	SSE	69.9	68.8	68.8	30.108	0	0	0	0.003	79.3	48	57.9	79.3	8.86	0.0729	24	1	100	1
9/21/2012	10:56 AM	70	70	69.9	57	54.1	2	SE	0.03	4	SE	70	68.9	68.9	30.109	0	0	0	0.003	79.5	48	58.1	79.4	8.86	0.0729	23	1	100	1
9/21/2012	10:57 AM	70.1	70.1	70.1	57	54.2	4	SE	0.07	6	SE	70.1	69	69	30.11	0	0	0	0.004	79.5	48	58.1	79.4	8.86	0.0729	24	1	100	1
9/21/2012	10:58 AM	70.2	70.2	70.2	57	54.2	4	SE	0.07	6	SE	70.2	69.2	69.2	30.107	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	23	1	100	1
9/21/2012	10:59 AM	70.3	70.3	70.3	57	54.3	3	SE	0.05	5	SE	70.3	69.3	69.3	30.109	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	23	1	100	1
9/21/2012	11:00 AM	70.4	70.4	70.3	57	54.4	2	SE	0.03	4	SE	70.4	69.4	69.4	30.107	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	24	1	100	1
9/21/2012	11:01 AM	70.4	70.4	70.4	56	54	2	SE	0.03	4	SE	70.4	69.3	69.3	30.107	0	0	0	0.004	79.9	48	58.5	79.8	8.85	0.0728	23	1	100	1
9/21/2012	11:02 AM	70.4	70.4	70.4	57	54.4	2	ESE	0.03	4	SE	70.4	69.4	69.4	30.107	0	0	0	0.004	79.9	47	57.9	79.7	8.65	0.0728	24	1	100	1
9/21/2012	11:03 AM	70.5	70.5	70.4	57	54.5	2	SE	0.03	4	SE	70.5	69.5	69.5	30.108	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	23	1	100	1
9/21/2012	11:04 AM	70.6	70.6	70.5	56	54.1	2	SE	0.03	5	ESE	70.6	69.6	69.6	30.104	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	24	1	100	1
9/21/2012	11:05 AM	70.6	70.6	70.6	56	54.1	0	ESE	0	2	ESE	70.6	69.6	69.6	30.104	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	23	1	100	1
9/21/2012	11:06 AM	70.8	70.8	70.7	58	55.3	1	ESE	0.02	3	ESE	70.8	70	70	30.103	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:07 AM	70.8	70.8	70.8	57	54.8	2	ESE	0.03	4	SE	70.8	69.9	69.9	30.104	0	0	0	0.004	80.3	46	57.6	80	8.45	0.0728	23	1	100	1
9/21/2012	11:08 AM	70.8	70.9	70.8	56	54.3	4	S	0.07	7	SSW	70.8	69.8	69.8	30.103	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:09 AM	70.9	70.9	70.9	56	54.4	4	SSE	0.07	7	SSE	70.9	70	70	30.102	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:10 AM	70.9	70.9	70.9	56	54.4	3	SSE	0.05	5	S	70.9	70	70	30.103	0	0	0	0.004	80.5	47	58.4	80.3	8.64	0.0727	23	1	100	1
9/21/2012	11:11 AM	70.9	70.9	70.9	56	54.4	2	SSE	0.03	4	SSE	70.9	70	70	30.103	0	0	0	0.004	80.5	47	58.4	80.3	8.64	0.0727	22	1	95.7	1
9/21/2012	11:12 AM	70.9	70.9	70.9	55	53.9	4	S	0.07	6	S	70.9	69.9	69.9	30.101	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	24	1	100	1
9/21/2012	11:13 AM	70.7	70.9	70.7	56	54.2	3	SSW	0.05	5	SSW	70.7	69.7	69.7	30.1	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	22	1	95.7	1
9/21/2012	11:14 AM	70.7	70.7	70.7	57	54.7	3	S	0.05	5	SSW	70.7	69.8	69.8	30.1	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	23	1	100	1
9/21/2012	11:15 AM	70.8	70.8	70.7	56	54.3	2	SSE	0.03	4	SSE	70.8	69.8	69.8	30.1	0	0	0	0.004	80.8	47	58.7	80.6	8.63	0.0726	23	1	100	1
9/21/2012	11:16 AM	71	71	70.8	57	55	2	SSE	0.03	3	SSE	71	70.2	70.2	30.101	0	0	0	0.004	80.8	46	58.1	80.5	8.45	0.0727	23	1	100	1
9/21/2012	11:17 AM	71	71	71	56	54.5	2	SSE	0.03	3	SSE	71	70.1	70.1	30.101	0	0	0	0.004	80.8	47	58.7	80.6	8.63	0.0726	23	1	100	1
9/21/2012	11:18 AM	71	71.1	71	56	54.5	2	SSE	0.03	3	SSE	71	70.1	70.1	30.099	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	22	1	95.7	1
9/21/2012	11:19 AM	71.2	71.2	71.1	55	54.2	2	SE	0.03	3	SE	71.2	70.3	70.3	30.1	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	24	1	100	1
9/21/2012	11:20 AM	71.3	71.3	71.2	56	54.8	2	SE	0.03	4	SE	71.3	70.5	70.5	30.099	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	23	1	100	1
9/21/2012	11:21 AM	71.3	71.4	71.3	55	54.3	3	SSE	0.05	5	SSE	71.3	70.5	70.5	30.099	0	0	0	0.004	81.2	46	58.5	81	8.45	0.0726	24	1	100	1
9/21/2012	11:22 AM	71.3	71.3	71.3	55	54.3	1	SE	0.02	2	SE	71.3	70.5	70.5	30.099	0	0	0	0.004	81.2	46	58.5	81	8.45	0.0726	23	1	100	1
9/21/2012	11:23 AM	71.3	71.3	71.3	54	53.8	1	SE	0.02	2	SE	71.3	70.4	70.4	30.1	0	0	0	0.004	81.2	45	57.8	80.9	8.33	0.0726	23	1	100	1
9/21/2012	11:24 AM	71.3	71.3	71.3	55	54.3	0	SE	0	2	SE	71.3	70.5	70.5	30.097	0	0	0	0.004	81.2	45	57.8	80.9	8.33	0.0726	24	1	100	1
9/21/2012	11:25 AM	71.5	71.5	71.3	56	55	3	SE	0.05	8	SE	71.5	70.8	70.8	30.099	0	0	0	0.005	81.2	45	57.8	80.9	8.33	0.0726	23	1	100	1
9/21/2012	11:26 AM	71.6	71.6	71.5	55	54.6	2	SE	0.03	4	SE	71.6	70.9	70.9	30.099	0	0	0	0.005	81.4	46	58.6	81.2	8.45	0.0726	24	1	100	1
9/21/2012	11:27 AM	71.6	71.6	71.6	54	54.1	3	SE	0.05	4	SE	71.6	70.8	70.8	30.097	0	0	0	0.005	81.4	46	58.6	81.2	8.45	0.0726	23	1	100	1
9/21/2012	11:28 AM	71.5	71.6	71.5	54	54	4	SE	0.07	6	SE	71.5	70.7	70.7	30.098	0	0	0	0.005	81.4	45	58	81.1	8.32	0.0726	24	1	100	1
9/21/2012	11:29 AM	71.5	71.6	71.5	54	54	2	SE	0.03	5	SE	71.5	70.7	70.7	30.096	0	0	0	0.005	81.6	46	58.8	81.5	8.45	0.0725	23	1	100	1
9/21/2012	11:30 AM	71.5	71.5	71.5	55	54.5	1	SE	0.02	2	SE	71.5	70.8	70.8	30.096	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0726	22	1	95.7	1
9/21/2012	11:31 AM	71.5	71.6	71.5	55	54.5	0	SE	0	1	SE	71.5	70.8	70.8	30.094	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0725	24	1	100	1
9/21/2012	11:32 AM	71.6	71.6	71.5	55	54.6	0	SE	0	1	SE	71.6	70.9	70.9	30.093	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0725	22	1	95.7	1
9/21/2012	11:33 AM	71.6	71.7	71.6	54	54.1	5	SSE	0.08	8	SSE	71.6	70.8	70.8	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	24	1	100	1
9/21/2012	11:34 AM	71.6	71.6	71.6	54	54.1	3	SSE	0.05	6	SSE	71.6	70.8	70.8	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	23	1	100	1
9/21/2012	11:35 AM	71.6	71.6	71.6	55	54.6	2	SSE	0.03	5	SSE	71.6	70.9	70.9	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	23	1	100	1
9/21/2012	11:36 AM	71.7	71.7	71.6	55	54.7	0	SSE	0	2	SSE	71.7	71	71	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	24	1	100	1
9/21/2012	11:37 AM	71.7	71.7	71.6	55	54.7	0	SSE	0	2	SSE	71.7	71	71	30.093	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	23	1	100	1
9/21/2012	11:38 AM	71.9	71.9	71.7	54	54.3	4	SSE	0.07	8	S	71.9	71.3	71.3	30.094	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	24	1	100	1
9/21/2012	11:39 AM	71.9	71.9	71.9	54	54.3	4	SSE	0.07	6	SSE	71.9	71.3	71.3	30.093	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	23	1	100	1
9/21/2012	11:40 AM	71.9	72	71.9	54	54.3	4	SSE	0.07	7	SSE	71.9	71.3	71.3	30.092	0	0	0	0.005	82.1	45	58.7	82.1	8.31	0.0725	23	1	100	1
9/21/2012	11:41 AM	72	72	71.9	54	54.4	2	ESE	0.03	6	SSE	72	71.4	71.4	30.094	0	0	0	0.005	82.1	45	58.7	82.1	8.31	0.0725	24	1	100	1
9/21/2012	11:42 AM	72	72	72	55	54.9	3	SE	0.05	5	SE	72	71.5	71.5	30.094	0	0	0	0.005	82.1	44	58	81.9	8.15	0.0725	23	1	100	1
9/21/2012	11:43 AM	72.1	72.1	72	55	55	3	SSE	0.05	6	SSE	72.1	71.6	71.6	30.093	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0724	24	1	100	1
9/21/2012	11:44 AM	72.1	72.1	72.1	54	54.5	3	SSE	0.05	5	SSE	72.1	71.6	71.6	30.093	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0724	23	1	100	1
9/21/2012	11:45 AM	72	72.1	72	53	53.9	3	SSE	0.05	4	SSE	72	71.3	71.3	30.094	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0725	24	1	100	1
9/21/2012	11:46 AM	71.7	71.9	71.7	54	54.2	1	SSE	0.02	3	SSE	71.7	71	71	30.092	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:47 AM	71.7	71.7	71.7	54	54.2	1	SSE	0.02	5	SSE	71.7	71	71	30.093	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:48 AM	71.7	71.7	71.7	54	54.2	2	ESE	0.03	4	ESE	71.7	71	71	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:49 AM	71.8	71.8	71.7	55	54.8	2	ESE	0.03	4	SE	71.8	71.2	71.2	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	23	1	100	1
9/21/2012	11:50 AM	71.9	71.9	71.8	54	54.3	2	SE	0.03	5	SE	71.9	71.3	71.3	30.091	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:51 AM	71.9	71.9	71.9	54	54.3	4	SSW	0.07	5	S	71.9	71.3	71.3	30.091	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	23	1	100	1
9/21/2012	11:52 AM	71.9	71.9	71.9	55	54.9	3	SSE	0.05	5	SSW	71.9	71.4	71.4	30.09	0	0	0	0.005	82.9	43	58.1	83	7.99	0.0724	23	1	100	1
9/21/2012	11:53 AM	71.9	71.9	71.9	54	54.3	2	SSE	0.03	4	SSE	71.9	71.3	71.3	30.088	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	24	1	100	1
9/21/2012	11:54 AM	71.9	71.9	71.9	54	54.3	2	S	0.03	5	SSE	71.9	71.3	71.3	30.087	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	22	1	95.7	1
9/21/2012	11:55 AM	71.9	71.9	71.9	55	54.9	2	S	0.03	4	S	71.9	71.4	71.4	30.086	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	24	1	100	1
9/21/2012	11:56 AM	71.9	72	71.9	54	54.3	4	WSW	0.07	5	S	71.9	71.3	71.3	30.086	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	22	1	95.7	1
9/21/2012	11:57 AM	71.9	71.9	71.9	56	55.3	1	SSE	0.02	6	SSE	71.9	71.4	71.4	30.087	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	23	1	100	1
9/21/2012	11:58 AM	71.

Meteorological Data
Equity IRM

9/21/2012	1:18 PM	72.6	72.7	72.6	57	56.5	6	S	0.1	11	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:19 PM	72.6	72.6	72.6	57	56.5	5	SSE	0.08	8	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	24	1	100	1
9/21/2012	1:20 PM	72.5	72.6	72.5	56	55.9	4	SSE	0.07	6	SSE	72.5	72.3	72.3	30.069	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:21 PM	72.5	72.5	72.5	57	56.4	4	SSE	0.07	7	S	72.5	72.4	72.4	30.067	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	23	1	100	1
9/21/2012	1:22 PM	72.4	72.5	72.4	57	56.3	4	SSE	0.07	8	SSE	72.4	72.3	72.3	30.069	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	24	1	100	1
9/21/2012	1:23 PM	72.5	72.5	72.4	57	56.4	7	SSE	0.12	9	SSE	72.5	72.4	72.4	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	23	1	100	1
9/21/2012	1:24 PM	72.4	72.4	72.4	57	56.3	5	SSE	0.08	8	SSE	72.4	72.3	72.3	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	24	1	100	1
9/21/2012	1:25 PM	72.4	72.4	72.4	57	56.3	6	S	0.1	12	SSE	72.4	72.3	72.3	30.068	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	22	1	95.7	1
9/21/2012	1:26 PM	72.4	72.4	72.4	57	56.3	5	S	0.08	12	SSE	72.4	72.3	72.3	30.067	0	0	0	0.005	84.7	41	58.4	85	7.66	0.0721	23	1	100	1
9/21/2012	1:27 PM	72.4	72.4	72.3	58	56.8	5	S	0.08	8	SW	72.4	72.3	72.3	30.066	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.072	23	1	100	1
9/21/2012	1:28 PM	72.5	72.5	72.4	58	56.9	5	SSW	0.08	8	S	72.5	72.5	72.5	30.067	0	0	0	0.005	84.7	41	58.4	85	7.66	0.0721	23	1	100	1
9/21/2012	1:29 PM	72.5	72.5	72.5	57	56.4	5	SSE	0.08	7	S	72.5	72.4	72.4	30.068	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	23	1	100	1
9/21/2012	1:30 PM	72.6	72.6	72.6	57	56.5	3	SSE	0.05	6	SSE	72.6	72.6	72.6	30.065	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	23	1	100	1
9/21/2012	1:31 PM	72.7	72.7	72.6	57	56.6	6	SSE	0.1	8	SE	72.7	72.7	72.7	30.064	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	22	1	95.7	1
9/21/2012	1:32 PM	72.8	72.8	72.7	57	56.7	5	SSE	0.08	7	SE	72.8	72.9	72.9	30.064	0	0	0	0.005	84.3	41	58	84.7	7.66	0.0721	22	1	95.7	1
9/21/2012	1:33 PM	72.9	72.9	72.8	57	56.8	7	SSW	0.12	10	SW	72.9	73	73	30.062	0	0	0	0.005	84.3	41	58	84.7	7.66	0.0721	23	1	100	1
9/21/2012	1:34 PM	73.1	73.1	72.9	56	56.5	6	SSE	0.1	9	SSE	73.1	73.2	73.2	30.062	0	0	0	0.006	84.3	42	58.7	84.9	7.85	0.0721	22	1	95.7	1
9/21/2012	1:35 PM	73.2	73.2	73.1	56	56.6	5	SSE	0.08	7	SSW	73.2	73.3	73.3	30.062	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:36 PM	73.3	73.3	73.2	55	56.2	4	SSW	0.07	7	SW	73.3	73.4	73.4	30.062	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:37 PM	73.4	73.4	73.3	56	56.7	5	S	0.08	8	SW	73.4	73.6	73.6	30.063	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:38 PM	73.4	73.4	73.4	55	56.2	7	SSW	0.12	10	SSE	73.4	73.5	73.5	30.064	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:39 PM	73.3	73.4	73.3	55	56.2	6	SSW	0.1	8	SSW	73.3	73.4	73.4	30.064	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:40 PM	73.1	73.2	73.1	55	56	4	SSE	0.07	7	SSE	73.1	73.1	73.1	30.064	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	1:41 PM	73	73.1	73	56	56.4	4	S	0.07	9	SSE	73	73.1	73.1	30.062	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:42 PM	73	73	73	55	55.9	6	SSE	0.1	8	SSE	73	73	73	30.062	0	0	0	0.006	83.9	41	57.7	84.3	7.67	0.0722	23	1	100	1
9/21/2012	1:43 PM	72.9	72.9	72.9	56	56.3	4	SSE	0.07	6	SSE	72.9	72.9	72.9	30.061	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:44 PM	72.9	72.9	72.9	56	56.3	5	S	0.08	7	SSW	72.9	72.9	72.9	30.06	0	0	0	0.005	83.7	41	57.5	84	7.68	0.0722	23	1	100	1
9/21/2012	1:45 PM	73	73	72.9	57	56.9	4	SSE	0.07	7	SSE	73	73.2	73.2	30.06	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	23	1	100	1
9/21/2012	1:46 PM	73.1	73.1	73.1	56	56.5	6	SSW	0.1	9	S	73.1	73.2	73.2	30.06	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	24	1	100	1
9/21/2012	1:47 PM	73.1	73.1	73.1	56	56.5	3	W	0.05	7	WNW	73.1	73.2	73.2	30.059	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	23	1	100	1
9/21/2012	1:48 PM	73.2	73.2	73.1	56	56.6	3	SSE	0.05	6	SSE	73.2	73.3	73.3	30.059	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	24	1	100	1
9/21/2012	1:49 PM	73.3	73.3	73.2	56	56.7	5	SSE	0.08	7	S	73.3	73.4	73.4	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:50 PM	73.5	73.5	73.4	55	56.3	3	S	0.05	6	SSE	73.5	73.6	73.6	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:51 PM	73.7	73.7	73.5	55	56.5	6	S	0.1	9	S	73.7	73.8	73.8	30.061	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:52 PM	73.7	73.7	73.7	54	56	5	S	0.08	7	S	73.7	73.7	73.7	30.06	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:53 PM	73.7	73.7	73.7	54	56	5	S	0.08	8	SSE	73.7	73.7	73.7	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:54 PM	73.7	73.7	73.7	54	56	4	SSW	0.07	7	S	73.7	73.7	73.7	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:55 PM	73.7	73.7	73.6	54	56	5	S	0.08	7	S	73.7	73.7	73.7	30.057	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:56 PM	73.6	73.7	73.6	54	55.9	6	SSE	0.1	9	SSE	73.6	73.6	73.6	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:57 PM	73.6	73.6	73.6	55	56.4	6	S	0.1	8	S	73.6	73.7	73.7	30.058	0	0	0	0.006	83.3	41	57.1	83.3	7.68	0.0723	23	1	100	1
9/21/2012	1:58 PM	73.5	73.6	73.5	54	55.8	5	S	0.08	9	S	73.5	73.5	73.5	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	1:59 PM	73.5	73.5	73.5	54	55.8	3	SSE	0.05	4	S	73.5	73.5	73.5	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:00 PM	73.6	73.6	73.5	54	55.9	4	SE	0.07	7	SSE	73.6	73.6	73.6	30.055	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	2:01 PM	73.6	73.6	73.6	54	55.9	6	SE	0.1	9	SE	73.6	73.6	73.6	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:02 PM	73.7	73.7	73.7	54	56	5	S	0.08	8	S	73.7	73.7	73.7	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:03 PM	73.8	73.8	73.7	54	56.1	5	SSE	0.08	9	SSE	73.8	73.9	73.9	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	2:04 PM	73.9	73.9	73.9	54	56.2	6	S	0.1	7	S	73.9	74	74	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:05 PM	73.9	73.9	73.9	54	56.2	4	SSE	0.07	7	SSE	73.9	74	74	30.059	0	0	0	0.006	83.1	41	57	83	7.69	0.0723	24	1	100	1
9/21/2012	2:06 PM	74	74	73.9	53	55.8	3	SE	0.05	5	SSW	74	74	74	30.057	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:07 PM	74	74	74	54	56.3	6	SSE	0.1	9	SW	74	74.1	74.1	30.056	0	0	0	0.006	83.1	41	57	83	7.69	0.0723	24	1	100	1
9/21/2012	2:08 PM	74	74	74	52	55.3	6	SSE	0.1	9	S	74	73.9	73.9	30.059	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:09 PM	73.9	74	73.9	53	55.7	5	SSE	0.08	9	SSE	73.9	73.9	73.9	30.057	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:10 PM	73.8	73.9	73.8	53	55.6	6	SSE	0.1	8	SSE	73.8	73.8	73.8	30.058	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:11 PM	73.8	73.8	73.8	53	55.6	3	SSE	0.05	6	SSE	73.8	73.8	73.8	30.058	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:12 PM	73.8	73.9	73.8	52	55.1	5	SSE	0.08	7	S	73.8	73.7	73.7	30.055	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:13 PM	73.8	73.8	73.8	52	55.1	5	SE	0.08	7	S	73.8	73.7	73.7	30.056	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:14 PM	73.7	73.8	73.7	52	55	5	S	0.08	9	S	73.7	73.5	73.5	30.055	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	22	1	95.7	1
9/21/2012	2:15 PM	73.7	73.7	73.7	53	55.5	5	S	0.08	9	S	73.7	73.6	73.6	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:16 PM	73.7	73.7	73.7	53	55.5	2	SSW	0.03	6	S	73.7	73.6	73.6	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:17 PM	73.7	73.7	73.6	52	55	2	SW	0.03	5	SW	73.7	73.5	73.5	30.053	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	23	1	100	1
9/21/2012	2:18 PM	73.7	73.7	73.6	52	55	6	SSW	0.1	8	S	73.7	73.5	73.5	30.053	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	23	1	100	1
9/21/2012	2:19 PM	73.7	73.7	73.6	52	55	4	S	0.07	6	SSW	73.7	73.5	73.5	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	22	1	95.7	1
9/21/2012	2:20 PM	73.6	73.7	73.6	52	54.9	6	SSW	0.1	9	SSE	73.6	73.4	73.4	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	24	1	100	1
9/21/2012	2:21 PM	73.6	73.6	73.6	53	55.4	6	SSE	0.1	10	SSE	73.6	73.5	73.5	30.052	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	22	1	95.7	1
9/21/2012	2:22 PM	73.6	73.6	73.6	52	54.9	5	SSE	0.08	8	SE	73.6	73.4	73.4	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	24	1	100	1
9/21/2012	2:23 PM	73.6	73.6	73.6	53	55.4	4	SSE	0.07	9	SSE	73.6	73.5	73.5	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	22	1	95.7	1
9/21/2012	2:24 PM	73.6	73.6	73.6	53	55.4	5	SSE	0.08	7	SSE	73.6	73.5	73.5	30.054	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:25 PM	73.6	73.7	73.6	52	54.9	5	SSE	0.08	8	S	73.6	73.4	73.4	30.053	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:26 PM	73.6	73.7	73.6	51	54.4	5	S	0.08	8	S	73.6	73.3	73.3	30.053	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:27 PM	73.5	73.6	73.5	52	54.8	5	SE	0.08	8	SE	73.5	73.3	73.3	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:28 PM	73.5	73.5	73.5	52	54.8	5	S	0.08	8	SW	73.5	73.3	73.3	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:29 PM	73.5	73.5	73.5	52	54.8	5	S	0.08	8	S	73.5	73.3	73.3	30.05	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:30 PM	73.6	73.6	73.5	53	55.4	2	S	0.03	4	SSW	73.6	73.5	73.5	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:31 PM	73.7	73.7	73.6	53	55.5	6	S	0.1	10	S	73.7	73.6	73.6	30.051	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:32 PM	73.8	73.8	73.8	52	55.1	5	SSW	0.08	7	SSW	73.8	73.7	73.7	30.049	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:33 PM	73.8	73.8	73.8	52	55.1	4	SSE	0.07	6	SSE	73.8	73.7	73.7	30.05	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:34 PM	73.8	73.8	73.8	50	54	6	SSW	0.1	8	S	73.8	73.5	73.5	30.048	0	0	0	0.006	82.5	42	57.1	82.3	7.85	0.0724	24	1	100	1
9/21/2012	2:35 PM	73.8	73.8	73.8	51	54.5	5	SSE	0.08	6	S	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	42	57.1	82.3	7.85	0.0724	23	1	100	1
9/21/2012	2:36 PM	73.8	73.8	73.8	51	54.5	6	S	0.1	7	S	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:37 PM	73.8	73.8	73.8	52	55.1	3	S	0.05	8	SW	73.8	73.7	73.7	30.05	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:38 PM	73.8	73.8	73.8	51	54.5	2	SSW	0.03	4	SSW	73.8	73.6	73.6	30.049	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:39 PM	73.8	73.8	73.8	51	54.5	6	SSW	0.1	9	SSW	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:40 PM	73.7	73.8	73.7	50	53.9	6	SSW	0.1	11	SW	73.7	73.3	73.3	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:41 PM	73.7	73.7	73.7	50	53.9	7	SSW	0.12	10	S	73.7	73.3	73.3	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:42 PM	73.6	73.7	73.6	49	53.3	3	SSW	0.05	7	SSW	73.6	73.2	73.2	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:43 PM	73.6	73.7	73.6	49	53.3	4	SSE	0.07	6	S	73.6	73.2	73.2	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:44 PM	73.7	73.7	73.6	49	53.3	5	SSE	0.08	8	SSE	73.7	73.3	73.3	30.047	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:45 PM	73.8	73.8	73.7	49	53.4	5	S	0.08	7	S	73.8	73.4	73.4	30.049	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:46 PM	73.8	73.8	73.8	49	53.4	5	S	0.08	8	SSW	73.8	73.4	73.4	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:47 PM	73.8	73.8	73.8	50	54	4	S	0.07	6	S	73.8	73.5	73.5	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	22	1	95.7	1
9/21/2012	2:48 PM	73.8	73.8	73.8	50	54	4	SSW	0.07	6	SSW	73.8	73.5	73.5	30.045	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:49 PM	73.8	73.8	73.8	48	52.9	5	SSE	0.08	8	SSE	73.8	73.3	73.3	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:50 PM	73.8	73.8	73.7	49	53.4	5	SSE	0.08	7	SSE	73.8	73.4	73.4	30.047	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:51 PM	73.8	73.8	73.8	48	52.9	4	SE	0.07	7	S	73.8	73.3	73.3	30.048	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:52 PM	73.9	73.9	73.8	48	53	5	S	0.08	7	SSW	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	23	1	100	1
9/21/2012	2:53 PM	73.9	73.9	73.9	48	53	4	S	0.07	5	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	24	1	100	1
9/21/2012	2:54 PM	73.9	73.9	73.9	48	53	5	SSW	0.08	11	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	40	55.4	81.4	7.55	0.0725	23	1	100	1
9/21/2012	2:55 PM	73.9	73.9	73.9	48	53	6	S	0.1	9	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	40	55.4	81.4	7.55	0.0725	23	1	100	1
9/21/2012	2:56 PM	74	74	73.9	48	53.1	4	S	0.07	9	SW	74	73.6	73.6	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	24	1	100	1
9/21/2012	2:57 PM	74	74	73.9	48	53.1	7	S	0.12	11	S	74	73.6	73.6	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	22	1	95.7

Meteorological Data
Equity IRM

9/22/2012	7:35 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	23	1	100	1
9/22/2012	7:36 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:37 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:38 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.799	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:39 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:40 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:41 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	22	1	95.7	1
9/22/2012	7:42 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.801	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:43 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:44 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:45 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	24	1	100	1
9/22/2012	7:46 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:47 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.797	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:48 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.798	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:49 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.797	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	24	1	100	1
9/22/2012	7:50 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	23	1	100	1
9/22/2012	7:51 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	22	1	95.7	1
9/22/2012	7:52 PM	71.9	72	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.794	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	24	1	100	1
9/22/2012	7:53 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	23	1	100	1
9/22/2012	7:54 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.796	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	24	1	100	1
9/22/2012	7:55 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	22	1	95.7	1
9/22/2012	7:56 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.798	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	23	1	100	1
9/22/2012	7:57 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	24	1	100	1
9/22/2012	7:58 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	23	1	100	1
9/22/2012	7:59 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.8	0	0	0	0.005	70.4	54	53	69.1	9.94	0.0736	24	1	100	1
9/22/2012	8:00 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.4	54	53	69.1	9.94	0.0736	22	1	95.7	1
9/22/2012	8:01 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.802	0	0	0	0.005	70.4	55	53.5	69.2	10.14	0.0735	24	1	100	1
9/22/2012	8:02 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.4	55	53.5	69.2	10.14	0.0735	22	1	95.7	1
9/22/2012	8:03 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:04 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.803	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:05 PM	71.9	71.9	71.8	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:06 PM	71.8	71.9	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.803	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	24	1	100	1
9/22/2012	8:07 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.801	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:08 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.801	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:09 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.8	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	24	1	100	1
9/22/2012	8:10 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.8	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:11 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.799	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	24	1	100	1
9/22/2012	8:12 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.798	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:13 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:14 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	22	1	95.7	1
9/22/2012	8:15 PM	71.6	71.7	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	23	1	100	1
9/22/2012	8:16 PM	71.7	71.7	71.6	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.798	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:17 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	23	1	100	1
9/22/2012	8:18 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:19 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	23	1	100	1
9/22/2012	8:20 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:21 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.799	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0737	24	1	100	1
9/22/2012	8:22 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:23 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.797	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	24	1	100	1
9/22/2012	8:24 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:25 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.795	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	24	1	100	1
9/22/2012	8:26 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	21	1	91.3	1
9/22/2012	8:27 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:28 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	23	1	100	1
9/22/2012	8:29 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.792	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:30 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.792	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	23	1	100	1
9/22/2012	8:31 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.791	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:32 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:33 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:34 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:35 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:36 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.787	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:37 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:38 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	24	1	100	1
9/22/2012	8:39 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.785	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	22	1	95.7	1
9/22/2012	8:40 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.784	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:41 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	22	1	95.7	1
9/22/2012	8:42 PM	71.6	71.6	71.5	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.787	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:43 PM	71.6	71.6	71.5	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.786	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:44 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.787	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:45 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.789	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:46 PM	71.6	71.7	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.789	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:47 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.791	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:48 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.791	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:49 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:50 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:51 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:52 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.791	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:53 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.79	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:54 PM	71.9	71.9	71.8	85	67.1	0	---	0	0	---	71.9	73.7	73.7	29.789	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:55 PM	71.9	71.9	71.8	85	67.1	0	---	0	0	---	71.9	73.7	73.7	29.787	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:56 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:57 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	24	1	100	1
9/22/2012	8:58 PM	72	72	71.9	84	66.9	0	---	0	0	---	72	73.7	73.7	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:59 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.789	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:00 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.79	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:01 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:02 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:03 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:04 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:05 PM	72.1	72.2	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:06 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:07 PM	72.2	72.2	72.2	83	66.7	0	---	0	0	---	72.2	73.9	73.9	29.793	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:08 PM	72.3	72.3	72.2	83	66.8	0	---	0	0	---	72.3	74	74	29.795	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:09 PM	72.4	72.4	72.3	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:10 PM	72.4	72.4	72.4	82	66.6	0	---	0	0	---	72.4	74.1	74.1	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:11 PM	72.5	72.5	72.4	82	66.7	0	---	0	0	---	72.5	74.2	74.2	29.8	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:12 PM	72.6	72.6	72.5	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.803	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:13 PM	72.6	72.6	72.6	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.808	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:14 PM	72.7	72.7	72.6	82	66.9	0	---	0	0	---	72.7	74.5	74.5	29.81	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:15 PM	72.8	72.8	72.7	82	67	0	---	0	0	---	72.8	74.6	74.6	29.815	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:16 PM	72.8	72.8	72.8	82	67	0	---	0	0	---	72.8	74.6	74.6	29.819	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:17 PM	72.9	72.9	72.

Meteorological Data
Equity IRM

9/22/2012	10:35 PM	67.4	67.5	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:36 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:37 PM	67.5	67.5	67.4	88	63.8	0	---	0	0	---	67.5	69	69	29.849	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:38 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.847	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:39 PM	67.5	67.5	67.5	87	63.5	0	---	0	0	---	67.5	69	69	29.846	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:40 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.844	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:41 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.842	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:42 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:43 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:44 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:45 PM	67.6	67.6	67.5	85	62.9	0	---	0	0	---	67.6	69	69	29.842	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:46 PM	67.6	67.6	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.841	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:47 PM	67.6	67.6	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.84	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:48 PM	67.7	67.7	67.6	85	63	0	---	0	0	---	67.7	69.1	69.1	29.841	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:49 PM	67.6	67.7	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.843	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:50 PM	67.7	67.7	67.6	85	63	0	---	0	0	---	67.7	69.1	69.1	29.847	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:51 PM	67.7	67.7	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	29.85	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	22	1	95.7	1
9/22/2012	10:52 PM	67.7	67.7	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:53 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.86	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	10:54 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.864	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	10:55 PM	67.8	67.8	67.8	83	62.4	0	---	0	0	---	67.8	69.2	69.2	29.866	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:56 PM	67.9	67.9	67.8	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.864	0	0	0	0.002	66.9	57	51.2	66.1	10.61	0.0743	22	1	95.7	1
9/22/2012	10:57 PM	67.9	67.9	67.9	82	62.2	0	---	0	0	---	67.9	69.3	69.3	29.863	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:58 PM	67.9	67.9	67.9	82	62.2	0	---	0	0	---	67.9	69.3	69.3	29.861	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	22	1	95.7	1
9/22/2012	10:59 PM	67.9	68	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.86	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	11:00 PM	68	68	67.9	82	62.3	0	---	0	0	---	68	69.4	69.4	29.86	0	0	0	0.002	66.7	56	50.5	65.8	10.42	0.0743	23	1	100	1
9/22/2012	11:01 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.859	0	0	0	0.002	66.7	56	50.5	65.8	10.42	0.0743	23	1	100	1
9/22/2012	11:02 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.859	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	23	1	100	1
9/22/2012	11:03 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	22	1	95.7	1
9/22/2012	11:04 PM	68	68	68	84	63	0	---	0	0	---	68	69.5	69.5	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	24	1	100	1
9/22/2012	11:05 PM	68	68	68	84	63	0	---	0	0	---	68	69.5	69.5	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	22	1	95.7	1
9/22/2012	11:06 PM	67.9	68	67.9	84	62.9	0	---	0	0	---	67.9	69.3	69.3	29.857	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	23	1	100	1
9/22/2012	11:07 PM	67.9	67.9	67.9	84	62.9	0	---	0	0	---	67.9	69.3	69.3	29.858	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:08 PM	67.9	67.9	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.856	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	22	1	95.7	1
9/22/2012	11:09 PM	67.8	67.9	67.8	83	62.4	0	---	0	0	---	67.8	69.2	69.2	29.855	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:10 PM	67.9	67.9	67.9	85	63.2	0	---	0	0	---	67.9	69.4	69.4	29.855	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:11 PM	67.9	67.9	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.854	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:12 PM	67.8	67.8	67.8	82	62.1	0	---	0	0	---	67.8	69.1	69.1	29.854	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:13 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.853	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:14 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.853	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	24	1	100	1
9/22/2012	11:15 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.854	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:16 PM	67.7	67.8	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:17 PM	67.7	67.8	67.7	82	62	0	---	0	0	---	67.7	69	69	29.855	0.01	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:18 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.854	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:19 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:20 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:21 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:22 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:23 PM	67.6	67.7	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.854	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:24 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:25 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:26 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:27 PM	67.5	67.6	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:28 PM	67.5	67.6	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.852	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:29 PM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.852	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:30 PM	67.5	67.5	67.5	84	62.5	0	---	0	0	---	67.5	68.9	68.9	29.851	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:31 PM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.854	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:32 PM	67.4	67.5	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.856	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:33 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.856	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:34 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:35 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:36 PM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:37 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:38 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:39 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:40 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.86	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:41 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.861	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:42 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	22	1	95.7	1
9/22/2012	11:43 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:44 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:45 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:46 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:47 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:48 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	24	1	100	1
9/22/2012	11:49 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:50 PM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.86	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	23	1	100	1
9/22/2012	11:51 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.863	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	23	1	100	1
9/22/2012	11:52 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.864	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	22	1	95.7	1
9/22/2012	11:53 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	22	1	95.7	1
9/22/2012	11:54 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/22/2012	11:55 PM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.863	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:56 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.864	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:57 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:58 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/22/2012	11:59 PM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.868	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/23/2012	12:00 AM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.868	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	24	1	100	1
9/23/2012	12:01 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	20	1	87	1
9/23/2012	12:02 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.866	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/23/2012	12:03 AM	67.4	67.4	67.3	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.866	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:04 AM	67.3	67.4	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:05 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.865	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:06 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.864	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:07 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.863	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:08 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.862	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:09 AM	67.4	67.4	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.861	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:10 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.86	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:11 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:12 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:13 AM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:14 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.859	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	24	1	100	1
9/23/2012	12:15 AM	67.3	67.4	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.858	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:16 AM	67.3	67.3	67.3	80	60.9	0	---	0	0	---	67.3	68.5

Meteorological Data
Equity IRM

9/23/2012	1:35 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.878	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:36 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:37 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:38 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:39 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:40 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:41 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:42 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:43 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	58	49.4	63.5	10.75	0.0747	23	1	100	1
9/23/2012	1:44 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.871	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:45 AM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:46 AM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	22	1	95.7	1
9/23/2012	1:47 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:48 AM	67.4	67.5	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:49 AM	67.5	67.5	67.4	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:50 AM	67.5	67.5	67.4	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:51 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:52 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	24	1	100	1
9/23/2012	1:53 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:54 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:55 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	1:56 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:57 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.876	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	1:58 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.876	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:59 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.878	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:00 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:01 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.879	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:02 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.879	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:03 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:04 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:05 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:06 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:07 AM	67.6	67.6	67.5	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.88	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:08 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.883	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:09 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:10 AM	67.6	67.6	67.6	79	60.9	0	---	0	0	---	67.6	68.7	68.7	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:11 AM	67.7	67.7	67.6	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:12 AM	67.7	67.7	67.6	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.887	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:13 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:14 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:15 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:16 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:17 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.883	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:18 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:19 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:20 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:21 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:22 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:23 AM	67.6	67.7	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:24 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.884	0.01	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:25 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.882	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:26 AM	67.6	67.6	67.6	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.882	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:27 AM	67.6	67.6	67.6	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.881	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:28 AM	67.6	67.6	67.5	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.879	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:29 AM	67.5	67.6	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:30 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:31 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:32 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:33 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:34 AM	67.5	67.5	67.4	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:35 AM	67.5	67.5	67.4	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:36 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:37 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:38 AM	67.4	67.4	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:39 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:40 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:41 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:42 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:43 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:44 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.884	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:45 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:46 AM	67.4	67.4	67.3	78	60.3	0	---	0	0	---	67.4	68.4	68.4	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:47 AM	67.4	67.4	67.4	77	59.9	0	---	0	0	---	67.4	68.3	68.3	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:48 AM	67.4	67.4	67.4	77	59.9	0	---	0	0	---	67.4	68.3	68.3	29.884	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:49 AM	67.5	67.5	67.4	77	60	0	---	0	0	---	67.5	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:50 AM	67.5	67.5	67.5	76	59.7	0	---	0	0	---	67.5	68.4	68.4	29.888	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0749	24	1	100	1
9/23/2012	2:51 AM	67.5	67.5	67.5	76	59.7	0	---	0	0	---	67.5	68.4	68.4	29.887	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:52 AM	67.6	67.6	67.5	76	59.8	0	---	0	0	---	67.6	68.5	68.5	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:53 AM	67.6	67.6	67.6	75	59.4	0	---	0	0	---	67.6	68.4	68.4	29.89	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:54 AM	67.6	67.6	67.6	74	59	0	---	0	0	---	67.6	68.4	68.4	29.887	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:55 AM	67.6	67.6	67.6	73	58.6	0	---	0	0	---	67.6	68.3	68.3	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:56 AM	67.7	67.7	67.7	72	58.3	0	---	0	0	---	67.7	68.4	68.4	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	22	1	95.7	1
9/23/2012	2:57 AM	67.8	67.8	67.7	72	58.4	0	---	0	0	---	67.8	68.5	68.5	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:58 AM	67.8	67.9	67.8	73	58.8	0	---	0	0	---	67.8	68.5	68.5	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:59 AM	67.9	67.9	67.8	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:00 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:01 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:02 AM	68	68	67.9	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:03 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.894	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:04 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:05 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:06 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:07 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:08 AM	68	68	68	71	58.2	0	---	0	0	---	68	68.7	68.7	29.893	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:09 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:10 AM	67.9	68	67.9	69	57.4	0	---	0	0	---	67.9	68.4	68.4	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	22	1	95.7	1
9/23/2012	3:11 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.89	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:12 AM	67.9	67.9	67.9	69	57.4	0	---	0	0	---	67.9	68.4	68.4	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	24	1	100	1
9/23/2012	3:13 AM	67.9	67.9	67.9	67	56.5	0	---	0	0	---	67.9	68.2	68.2	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	22	1	95.7	1
9/23/2012	3:14 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8	68.1	68.1	29.89	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	24	1	100	1
9/23/2012	3:15 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8	68.1	68.1	29.893	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:16 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8

Meteorological Data
Equity IRM

9/23/2012	4:35 AM	65.7	65.8	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:36 AM	65.7	65.7	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	24	1	100	1
9/23/2012	4:37 AM	65.7	65.7	65.7	70	55.6	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:38 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:39 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:40 AM	65.6	65.6	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.916	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:41 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.919	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:42 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.921	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:43 AM	65.6	65.6	65.5	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.922	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:44 AM	65.5	65.6	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:45 AM	65.5	65.5	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:46 AM	65.5	65.5	65.4	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	24	1	100	1
9/23/2012	4:47 AM	65.4	65.4	65.4	70	55.4	0	---	0	0	---	65.4	65.5	65.5	29.921	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:48 AM	65.4	65.4	65.4	70	55.4	0	---	0	0	---	65.4	65.5	65.5	29.922	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	24	1	100	1
9/23/2012	4:49 AM	65.3	65.4	65.3	70	55.3	0	---	0	0	---	65.3	65.4	65.4	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:50 AM	65.3	65.3	65.3	70	55.3	0	---	0	0	---	65.3	65.4	65.4	29.923	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:51 AM	65.2	65.3	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	24	1	100	1
9/23/2012	4:52 AM	65.2	65.2	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:53 AM	65.2	65.2	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.923	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	24	1	100	1
9/23/2012	4:54 AM	65.1	65.2	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.924	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0755	23	1	100	1
9/23/2012	4:55 AM	65.1	65.1	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.924	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	24	1	100	1
9/23/2012	4:56 AM	65.1	65.1	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.926	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	22	1	95.7	1
9/23/2012	4:57 AM	65	65.1	65	69	54.6	0	---	0	0	---	65	64.9	64.9	29.925	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	23	1	100	1
9/23/2012	4:58 AM	65	65	65	69	54.6	0	---	0	0	---	65	64.9	64.9	29.927	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	24	1	100	1
9/23/2012	4:59 AM	65	65	65	70	55	0	---	0	0	---	65	65	65	29.928	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	23	1	100	1
9/23/2012	5:00 AM	65	65	64.9	69	54.6	0	---	0	0	---	65	64.9	64.9	29.927	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:01 AM	64.9	64.9	64.9	70	54.9	0	---	0	0	---	64.9	64.9	64.9	29.93	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:02 AM	64.9	64.9	64.9	70	54.9	0	---	0	0	---	64.9	64.9	64.9	29.931	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:03 AM	64.8	64.9	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.933	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:04 AM	64.8	64.8	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.934	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	22	1	95.7	1
9/23/2012	5:05 AM	64.8	64.8	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.935	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:06 AM	64.8	64.8	64.7	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.935	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:07 AM	64.7	64.8	64.7	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.935	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:08 AM	64.7	64.8	64.7	71	55.1	0	---	0	0	---	64.7	64.7	64.7	29.939	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:09 AM	64.7	64.7	64.7	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.938	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	21	1	91.3	1
9/23/2012	5:10 AM	64.7	64.7	64.6	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.938	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:11 AM	64.6	64.6	64.6	70	54.6	0	---	0	0	---	64.6	64.5	64.5	29.94	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:12 AM	64.6	64.6	64.6	70	54.6	0	---	0	0	---	64.6	64.5	64.5	29.941	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:13 AM	64.5	64.5	64.5	71	54.9	0	---	0	0	---	64.5	64.5	64.5	29.94	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	21	1	91.3	1
9/23/2012	5:14 AM	64.5	64.5	64.5	71	54.9	0	---	0	0	---	64.5	64.5	64.5	29.943	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:15 AM	64.4	64.5	64.4	71	54.8	0	---	0	0	---	64.4	64.3	64.3	29.945	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:16 AM	64.4	64.4	64.4	71	54.8	0	---	0	0	---	64.4	64.3	64.3	29.948	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:17 AM	64.3	64.3	64.3	71	54.7	0	---	0	0	---	64.3	64.2	64.2	29.946	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:18 AM	64.2	64.3	64.2	71	54.6	0	---	0	0	---	64.2	64.1	64.1	29.945	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:19 AM	64.1	64.2	64.1	71	54.5	0	---	0	0	---	64.1	64	64	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:20 AM	64.1	64.1	64.1	72	54.9	0	---	0	0	---	64.1	64	64	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:21 AM	64	64.1	64	72	54.8	0	---	0	0	---	64	63.9	63.9	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:22 AM	63.9	64	63.9	72	54.7	0	---	0	0	---	63.9	63.8	63.8	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:23 AM	63.9	63.9	63.9	72	54.7	0	---	0	0	---	63.9	63.8	63.8	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:24 AM	63.8	63.9	63.8	72	54.6	0	---	0	0	---	63.8	63.7	63.7	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:25 AM	63.8	63.8	63.8	72	54.6	0	---	0	0	---	63.8	63.7	63.7	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:26 AM	63.6	63.7	63.6	72	54.4	0	---	0	0	---	63.6	63.5	63.5	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:27 AM	63.6	63.6	63.6	72	54.4	0	---	0	0	---	63.6	63.5	63.5	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:28 AM	63.5	63.5	63.5	72	54.3	0	---	0	0	---	63.5	63.3	63.3	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:29 AM	63.4	63.5	63.4	73	54.6	0	---	0	0	---	63.4	63.3	63.3	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:30 AM	63.3	63.4	63.3	73	54.5	0	---	0	0	---	63.3	63.2	63.2	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:31 AM	63.2	63.3	63.2	70	53.3	0	---	0	0	---	63.2	62.9	62.9	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:32 AM	63.2	63.2	63.2	69	52.9	0	---	0	0	---	63.2	62.9	62.9	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:33 AM	63.2	63.2	63.1	69	52.9	0	---	0	0	---	63.2	62.9	62.9	29.946	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:34 AM	63.1	63.2	63.1	67	52	0	---	0	0	---	63.1	62.6	62.6	29.946	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:35 AM	63.1	63.1	63.1	67	52	0	---	0	0	---	63.1	62.6	62.6	29.95	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:36 AM	63.1	63.1	63	68	52.4	0	---	0	0	---	63.1	62.7	62.7	29.949	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:37 AM	63	63.1	63	70	53.1	0	---	0	0	---	63	62.7	62.7	29.952	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:38 AM	63	63	63	71	53.4	0	---	0	0	---	63	62.7	62.7	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:39 AM	62.9	63	62.9	66	51.4	0	---	0	0	---	62.9	62.3	62.3	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:40 AM	62.9	62.9	62.9	63	50.1	0	---	0	0	---	62.9	62.1	62.1	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:41 AM	62.8	62.9	62.8	66	51.3	0	---	0	0	---	62.8	62.2	62.2	29.949	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:42 AM	62.8	62.8	62.8	67	51.7	0	---	0	0	---	62.8	62.3	62.3	29.951	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:43 AM	62.7	62.8	62.7	67	51.6	0	---	0	0	---	62.7	62.2	62.2	29.95	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:44 AM	62.6	62.7	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.949	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	24	1	100	1
9/23/2012	5:45 AM	62.6	62.6	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.95	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	22	1	95.7	1
9/23/2012	5:46 AM	62.5	62.6	62.5	67	51.4	0	---	0	0	---	62.5	62	62	29.954	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	24	1	100	1
9/23/2012	5:47 AM	62.5	62.5	62.5	67	51.4	0	---	0	0	---	62.5	62	62	29.954	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	23	1	100	1
9/23/2012	5:48 AM	62.3	62.4	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.953	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	23	1	100	1
9/23/2012	5:49 AM	62.2	62.3	62.2	68	51.5	0	---	0	0	---	62.2	61.7	61.7	29.952	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	23	1	100	1
9/23/2012	5:50 AM	62.1	62.2	62.1	67	51	0	---	0	0	---	62.1	61.5	61.5	29.955	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	23	1	100	1
9/23/2012	5:51 AM	61.9	62	61.9	68	51.2	0	---	0	0	---	61.9	61.3	61.3	29.954	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	24	1	100	1
9/23/2012	5:52 AM	61.8	62	61.8	68	51.1	0	---	0	0	---	61.8	61.2	61.2	29.956	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	22	1	95.7	1
9/23/2012	5:53 AM	61.8	61.8	61.8	69	51.5	0	---	0	0	---	61.8	61.2	61.2	29.959	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	24	1	100	1
9/23/2012	5:54 AM	61.7	61.8	61.7	68	51	0	---	0	0	---	61.7	61.1	61.1	29.957	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	23	1	100	1
9/23/2012	5:55 AM	61.6	61.7	61.6	67	50.5	0	---	0	0	---	61.6	60.9	60.9	29.959	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	22	1	95.7	1
9/23/2012	5:56 AM	61.5	61.6	61.5	67	50.4	0	---	0	0	---	61.5	60.8	60.8	29.959	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	24	1	100	1
9/23/2012	5:57 AM	61.4	61.5	61.4	68	50.7	0	---	0	0	---	61.4	60.8	60.8	29.96	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	23	1	100	1
9/23/2012	5:58 AM	61.3	61.4	61.3	68	50.6	0	---	0	0	---	61.3	60.6	60.6	29.962	0	0	0.003	0	59.9	59	45.5	58.5	10.95	0.0757	24	1	100	1
9/23/2012	5:59 AM	61.2	61.3	61.2	69	50.9	0	---	0	0	---	61.2	60.6	60.6	29.965	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:00 AM	61.1	61.2	61.1	69	50.8	0	---	0	0	---	61.1	60.5	60.5	29.965	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:01 AM	61	61.1	61	69	50.8	0	---	0	0	---	61	60.4	60.4	29.964	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:02 AM	60.9	61	60.9	70	51	0	---	0	0	---	60.9	60.3	60.3	29.966	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:03 AM	60.8	60.9	60.8	70	51	0	---	0	0	---	60.8	60.2	60.2	29.966	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:04 AM	60.7	60.8	60.7	71	51.2	0	---	0	0	---	60.7	60.2	60.2	29.965	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:05 AM	60.5	60.6	60.5	71	51	0	---	0	0	---	60.5	60	60	29.968	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:06 AM	60.4	60.5	60.4	72	51.3	0	---	0	0	---	60.4	59.9	59.9	29.971	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	22	1	95.7	1
9/23/2012	6:07 AM	60.3	60.4	60.3	72	51.2	0	---	0	0	---	60.3	59.8	59.8	29.972	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	22	1	95.7	1
9/23/2012	6:08 AM	60.2	60.3	60.2	72	51.1	0	---	0	0	---	60.2	59.7	59.7	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:09 AM	60.2	60.2	60.2	71	50.8	0	---	0	0	---	60.2	59.6	59.6	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:10 AM	60.1	60.1	60.1	72	51	0	---	0	0	---	60.1	59.6	59.6	29.969	0	0	0.003	0	59.4	60	45.5	58.1	11.14	0.0758	23	1	100	1
9/23/2012	6:11 AM	60	60.1	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.969	0	0	0.003	0	59.3	60	45.4	58	11.14	0.0758	23	1	100	1
9/23/2012	6:12 AM	60	60	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.972	0	0	0.003	0	59.3	59	45	57.9	10.95	0.0758	20	1	87	1
9/23/2012	6:13 AM	59.9	60	59.9	73	51.2	0	---	0	0	---	59.9	59.4	59.4	29.972	0	0	0.004	0	59.3	59	45	57.9	10.95	0.0758	23	1	100	1
9/23/2012	6:14 AM	59.9	59.9	59.9	73	51.2	0	---	0	0	---	59.9	59.4	59.4	29.971	0	0	0.004	0	59.1	59	44.8	57.7	10.95	0.0759	23	1	100	1
9/23/2012	6:15 AM	59.8	59.9	59.8	73	51.1	0	---	0	0	---	59.8	59.3	59.3	29.97	0	0	0.004	0	59.1	60	45.2	57.8	11.13	0.0758	23	1	100	1
9/23/2012	6:16 AM	59.8	59.8	59.8	73	51.1	0	---	0	0	---	59.8	59.3	59.3	29.971	0	0	0.004	0	59.1	60	45.2	57.8	11.13	0.0759	23	1	100	1
9/23/2012	6:17 AM

Meteorological Data
Equity IRM

9/23/2012	7:35 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0762	23	1	100	1
9/23/2012	7:36 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.004	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	23	1	100	1
9/23/2012	7:37 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	24	1	100	1
9/23/2012	7:38 AM	58.6	58.6	58.6	70	48.8	0	---	0	0	---	58.6	57.9	57.9	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	23	1	100	1
9/23/2012	7:39 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.007	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.0761	24	1	100	1
9/23/2012	7:40 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:41 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:42 AM	58.6	58.6	58.6	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.011	0	0	0.004	0	58.5	59	44.2	57.1	10.95	0.0761	24	1	100	1
9/23/2012	7:43 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.011	0	0	0.005	0	58.7	59	44.4	57.3	10.95	0.076	23	1	100	1
9/23/2012	7:44 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.008	0	0	0.005	0	58.7	59	44.4	57.3	10.95	0.076	24	1	100	1
9/23/2012	7:45 AM	58.5	58.6	58.5	69	48.4	0	---	0	0	---	58.5	57.7	57.7	30.01	0	0	0.005	0	58.8	59	44.5	57.4	10.95	0.076	23	1	100	1
9/23/2012	7:46 AM	58.6	58.6	58.5	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.006	0	0	0.004	0	59	59	44.7	57.6	10.95	0.076	24	1	100	1
9/23/2012	7:47 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	59	59	44.7	57.6	10.95	0.076	23	1	100	1
9/23/2012	7:48 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	59.1	59	44.8	57.7	10.95	0.076	23	1	100	1
9/23/2012	7:49 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.01	0	0	0.004	0	59.3	59	45	57.9	10.95	0.0759	24	1	100	1
9/23/2012	7:50 AM	58.7	58.7	58.6	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.012	0	0	0.004	0	59.4	59	45.1	58	10.95	0.0759	23	1	100	1
9/23/2012	7:51 AM	58.7	58.7	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.011	0	0	0.004	0	59.4	59	45.1	58	10.95	0.0759	23	1	100	1
9/23/2012	7:52 AM	58.7	58.7	58.7	67	47.8	0	---	0	0	---	58.7	57.8	57.8	30.011	0	0	0.004	0	59.6	59	45.2	58.2	10.95	0.0759	23	1	100	1
9/23/2012	7:53 AM	58.7	58.8	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.013	0	0	0.004	0	59.7	59	45.3	58.3	10.95	0.0759	22	1	95.7	1
9/23/2012	7:54 AM	58.7	58.7	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.012	0	0	0.004	0	59.7	59	45.3	58.3	10.95	0.0759	24	1	100	1
9/23/2012	7:55 AM	58.7	58.7	58.7	67	47.8	0	---	0	0	---	58.7	57.8	57.8	30.015	0	0	0.004	0	59.9	59	45.5	58.5	10.95	0.0758	23	1	100	1
9/23/2012	7:56 AM	58.8	58.8	58.7	68	48.3	0	---	0	0	---	58.8	58	58	30.015	0	0	0.004	0	60	59	45.6	58.6	10.95	0.0758	23	1	100	1
9/23/2012	7:57 AM	58.8	58.8	58.8	68	48.3	0	---	0	0	---	58.8	58	58	30.017	0	0	0.004	0	60.2	59	45.8	58.9	10.95	0.0758	22	1	95.7	1
9/23/2012	7:58 AM	58.8	58.8	58.8	67	47.9	0	---	0	0	---	58.8	57.9	57.9	30.016	0	0	0.004	0	60.2	59	45.8	58.9	10.95	0.0758	23	1	100	1
9/23/2012	7:59 AM	58.9	58.9	58.8	67	48	0	---	0	0	---	58.9	58	58	30.019	0	0	0.004	0	60.3	59	45.9	59	10.95	0.0758	23	1	100	1
9/23/2012	8:00 AM	58.9	58.9	58.9	67	48	0	---	0	0	---	58.9	58	58	30.018	0	0	0.004	0	60.5	59	46.1	59.2	10.95	0.0757	23	1	100	1
9/23/2012	8:01 AM	59	59	58.9	67	48.1	0	---	0	0	---	59	58.1	58.1	30.016	0	0	0.004	0	60.7	59	46.3	59.4	10.95	0.0757	23	1	100	1
9/23/2012	8:02 AM	59	59	58.9	66	47.7	0	---	0	0	---	59	58.1	58.1	30.019	0	0	0.004	0	60.7	59	46.3	59.4	10.95	0.0757	22	1	95.7	1
9/23/2012	8:03 AM	58.9	59	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	60.8	59	46.4	59.5	10.95	0.0757	23	1	100	1
9/23/2012	8:04 AM	58.9	59	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	61	59	46.6	59.7	10.95	0.0757	22	1	95.7	1
9/23/2012	8:05 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.02	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.0756	22	1	95.7	1
9/23/2012	8:06 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.021	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.0756	23	1	100	1
9/23/2012	8:07 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.02	0	0	0.004	0	61.3	59	46.8	60	10.95	0.0756	23	1	100	1
9/23/2012	8:08 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.022	0	0	0.004	0	61.4	59	46.9	60.1	10.95	0.0756	23	1	100	1
9/23/2012	8:09 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	61.6	59	47.1	60.3	10.95	0.0756	23	1	100	1
9/23/2012	8:10 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.021	0	0	0.004	0	61.6	59	47.1	60.3	10.95	0.0756	22	1	95.7	1
9/23/2012	8:11 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.024	0	0	0.004	0	61.8	59	47.3	60.5	10.95	0.0755	24	1	100	1
9/23/2012	8:12 AM	58.9	58.9	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.024	0	0	0.004	0	61.9	59	47.4	60.6	10.95	0.0755	23	1	100	1
9/23/2012	8:13 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.026	0	0	0.004	0	62.1	59	47.6	60.8	10.95	0.0755	24	1	100	1
9/23/2012	8:14 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.2	59	47.7	61	10.95	0.0755	23	1	100	1
9/23/2012	8:15 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.027	0	0	0.004	0	62.2	59	47.7	61	10.95	0.0755	24	1	100	1
9/23/2012	8:16 AM	58.9	59	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.025	0	0	0.004	0	62.4	59	47.9	61.2	10.95	0.0754	21	1	91.3	1
9/23/2012	8:17 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.027	0	0	0.004	0	62.5	59	48	61.3	10.95	0.0754	23	1	100	1
9/23/2012	8:18 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.7	59	48.2	61.5	10.95	0.0754	24	1	100	1
9/23/2012	8:19 AM	58.9	59	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.028	0	0	0.004	0	62.9	59	48.3	61.7	10.95	0.0753	23	1	100	1
9/23/2012	8:20 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.9	59	48.3	61.7	10.95	0.0753	24	1	100	1
9/23/2012	8:21 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	63	58	48	61.8	10.75	0.0753	23	1	100	1
9/23/2012	8:22 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.024	0	0	0.004	0	63.2	58	48.2	62	10.75	0.0753	23	1	100	1
9/23/2012	8:23 AM	59.1	59.1	59	64	46.9	0	---	0	0	---	59.1	58	58	30.024	0	0	0.004	0	63.3	58	48.3	62.1	10.75	0.0753	24	1	100	1
9/23/2012	8:24 AM	59.1	59.1	59	64	46.9	0	---	0	0	---	59.1	58	58	30.022	0	0	0.004	0	63.5	58	48.5	62.4	10.75	0.0752	23	1	100	1
9/23/2012	8:25 AM	59.1	59.1	59.1	64	46.9	0	---	0	0	---	59.1	58	58	30.025	0	0	0.004	0	63.5	58	48.5	62.4	10.75	0.0753	24	1	100	1
9/23/2012	8:26 AM	59.1	59.1	59.1	64	46.9	0	---	0	0	---	59.1	58	58	30.028	0	0	0.004	0	63.6	58	48.5	62.5	10.75	0.0752	23	1	100	1
9/23/2012	8:27 AM	59.1	59.1	59.1	62	46.1	0	---	0	0	---	59.1	57.9	57.9	30.027	0	0	0.004	0	63.8	58	48.7	62.7	10.75	0.0752	24	1	100	1
9/23/2012	8:28 AM	59.1	59.1	59.1	62	46.1	0	---	0	0	---	59.1	57.9	57.9	30.023	0	0	0.004	0	64	58	48.9	62.9	10.75	0.0752	23	1	100	1
9/23/2012	8:29 AM	59.1	59.1	59.1	63	46.5	0	---	0	0	---	59.1	58	58	30.025	0	0	0.004	0	64.1	58	49	63	10.75	0.0751	23	1	100	1
9/23/2012	8:30 AM	59.1	59.1	59.1	63	46.5	0	---	0	0	---	59.1	58	58	30.026	0	0	0.004	0	64.3	58	49.2	63.3	10.75	0.0751	24	1	100	1
9/23/2012	8:31 AM	59.2	59.2	59.1	62	46.2	0	---	0	0	---	59.2	58	58	30.027	0	0	0.004	0	64.3	58	49.2	63.3	10.75	0.0751	22	1	95.7	1
9/23/2012	8:32 AM	59.2	59.2	59.2	63	46.6	0	---	0	0	---	59.2	58.1	58.1	30.029	0	0	0.004	0	64.5	58	49.4	63.5	10.75	0.0751	24	1	100	1
9/23/2012	8:33 AM	59.2	59.2	59.2	62	46.2	0	---	0	0	---	59.2	58	58	30.032	0	0	0.004	0	64.6	58	49.5	63.6	10.75	0.0751	23	1	100	1
9/23/2012	8:34 AM	59.2	59.2	59.2	62	46.2	0	---	0	0	---	59.2	58	58	30.03	0	0	0.004	0	64.8	58	49.7	63.8	10.75	0.075	23	1	100	1
9/23/2012	8:35 AM	59.2	59.2	59.2	63	46.6	0	---	0	0	---	59.2	58.1	58.1	30.029	0	0	0.004	0	64.8	58	49.7	63.8	10.75	0.075	24	1	100	1
9/23/2012	8:36 AM	59.3	59.3	59.2	63	46.7	0	---	0	0	---	59.3	58.2	58.2	30.031	0	0	0.004	0	64.9	58	49.8	63.9	10.75	0.075	23	1	100	1
9/23/2012	8:37 AM	59.4	59.4	59.3	62	46.4	0	---	0	0	---	59.4	58.2	58.2	30.032	0	0	0.004	0	65.1	58	50	64.2	10.75	0.075	24	1	100	1
9/23/2012	8:38 AM	59.4	59.4	59.3	62	46.4	0	---	0	0	---	59.4	58.2	58.2	30.031	0	0	0.004	0	65.1	58	50	64.2	10.75	0.075	23	1	100	1
9/23/2012	8:39 AM	59.5	59.5	59.4	62	46.5	0	---	0	0	---	59.5	58.3	58.3	30.03	0	0	0.004	0	65.3	58	50.1	64.4	10.75	0.075	24	1	100	1
9/23/2012	8:40 AM	59.6	59.6	59.5	63	47	0	---	0	0	---	59.6	58.5	58.5	30.03	0	0	0.004	0	65.4	58	50.2	64.5	10.75	0.0749	23	1	100	1
9/23/2012	8:41 AM	59.6	59.6	59.6	62	46.6	0	---	0	0	---	59.6	58.4	58.4	30.029	0	0	0.004	0	65.6	58	50.4	64.7	10.75	0.0749	23	1	100	1
9/23/2012	8:42 AM	59.7	59.7	59.6	62	46.7	0	---	0	0	---	59.7	58.5	58.5	30.029	0	0	0.004	0	65.6	58	50.4	64.7	10.75	0.0749	24	1	100	1
9/23/2012	8:43 AM	59.8	59.8	59.7	62	46.7	0	---	0	0	---	59.8	58.7	58.7	30.029	0	0	0.004	0	65.8	58	50.6	64.9	10.75	0.0749	23	1	100	1
9/23/2012	8:44 AM	59.8	59.8	59.8	61	46.3	0	---	0	0	---	59.8	58.6	58.6	30.029	0	0	0.004	0	65.9	58	50.7	65	10.75	0.0748	24	1	100	1
9/23/2012	8:45 AM	59.9	59.9	59.9	61	46.4	0	---	0	0	---	59.9	58.7	58.7	30.03	0	0	0.004	0	66.1	58	50.9	65.3	10.75	0.0748	23	1	100	1
9/23/2012	8:46 AM	60	60	59.9	61	46.5	0	---	0	0	---	60	58.8	58.8	30.031	0	0	0.003	0	66.2	57	50.5	65.3	10.63	0.0748	23	1	100	1
9/23/2012	8:47 AM	60.2	60.2	60	62	47.1	0	---	0	0	---	60.2	59.1	59.1	30.031	0	0	0.003	0	66.4	57	50.7	65.5	10.62	0.0748	23	1	100	1
9/23/2012	8:48 AM	60.3	60.3	60.2	61	46.8	0	---	0	0	---	60.3	59.1	59.1	30.033	0	0	0.003	0	66.4	57	50.7	65.5	10.62	0.0748	23	1	100	1
9/23/2012	8:49 AM	60.3	60.3	60.2	61	46.8	0	---	0	0	---	60.3	59.1	59.1	30.03	0	0	0.003	0	66.6	57	50.9	65.8	10.62	0.0747	24	1	100	1
9/23/2012	8:50 AM	60.2	60.3	60.2	60	46.3	0	---	0	0	---	60.2	58.9	58.9	30.03	0	0	0.003	0	66.7	57	51	65.9	10.62	0.0747	23	1	100	1
9/23/2012	8:51 AM	60.2	60.3	60.2	59	45.8	0	---	0	0	---	60.2	58.9	58.9	30.034	0	0	0.003	0	66.9	57	51.2	66.1	10.61	0.0747	22	1	95.7	1
9/23/2012	8:52 AM	60	60.1	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.034	0	0	0.003	0	67	57	51.3	66.3	10.61	0.0747	24	1	100	1
9/23/2012	8:53 AM	60	60	59.9	60	46.1	0	---	0	0	---	60	58.7	58.7	30.034	0	0	0.003	0	67.2	57	51.4	66.5	10.61	0.0746	22	1	95.7	1
9/23/2012	8:54 AM	59.9	60	59.9	60	46	0	---	0	0	---	59.9	58.6	58.6	30.035	0	0	0.004	0	67.4	57	51.6	66.7	10.6	0.0746	24	1	100	1
9/23/2012	8:55 AM	59.9	59.9	59.9	61	46.4	0	---	0	0	---	59.9	58.7	58.7	30.035	0	0	0.004	0	67.5	57	51.7	66.8	10.6	0.0746	22	1	95.7	1
9/23/2012	8:56 AM	60	60	59.9	60	46.1	0	---	0	0	---	60	58.7	58.7	30.036	0	0	0.003	0	67.7	57	51.9	67.1	10.6	0.0746	24	1	100	1
9/23/2012	8:57 AM	60	60	59.9	61	46.5	0	---	0	0	---	60	58.8	58.8	30.033	0	0	0.003	0	67.9	57	52.1	67.3	10.59	0.0745	22	1	95.7	1
9/23/2012	8:58 AM	60	60	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.037	0	0	0.003	0	68	57	52.2	67.4	10.59	0.0745	22	1	95.7	1
9/23/2012	8:59 AM	60.1	60.1	60	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.035	0	0	0.003	0	68	57	52.2	67.4	10.59	0.0745	24	1	100	1
9/23/2012	9:00 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.035	0	0	0.003	0	68.2	57	52.4	67.6	10.59	0.0745	22	1	95.7	1
9/23/2012	9:01 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.033	0	0	0.003	0	68.4	57	52.6	67.7	10.58	0.0744	24	1	100	1
9/23/2012	9:02 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.034	0	0	0.003	0	68.5	57	52.7	67.8	10.58	0.0744	22	1	95.7	1
9/23/2012	9:03 AM	60	60.1	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.035	0	0	0.003	0	68.7	56	52.4	67.8	10.38	0.0744	23	1	100	1
9/23/2012	9:04 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.035	0	0	0.003	0	68.9	56	52.6	68	10.37	0.0744	23	1	100	1
9/23/2012	9:05 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.036	0	0	0.003	0	69	56	52.6	68.1	10.37	0.0744	23	1	100	1
9/23/2012	9:06 AM	60.2	60.2	60.1	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.2	56	52.8	68.2	10.37	0.0743	23	1	100	1
9/23/2012	9:07 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	23	1	100	1
9/23/2012	9:08 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.038	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	24	1	100	1
9/23/2012	9:09 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.04	0	0	0.003	0	69.6	56	53.2	68.5	10.36	0.0743	23	1	100	1
9/23/2012	9:10 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.038	0	0	0.003	0	69.7	56	53.3	68.6	10.36	0.0742	23	1	100	1
9/23/2012	9:11 AM	60.4	60.4	60.3	60	46.4	0	---	0	0	---	60.4	59.1	59.1	30.04	0	0	0.003	0	69.9	56	53.5	68.7	10.35	0.0742	24	1	100	1
9/23/2012	9:12 AM	60.5	60.5	60.4	61	47	0	---	0	0	---	60.5	59.3	59.3	30.041	0	0	0.003	0	70.1	56	53.7	68.9	10.35	0.0742	23	1	100	1
9/23/2012	9:13 AM	60.6	60.6	60.5	60	46.6	0	---	0	0	---	60.6	59.4	59.4	30.039	0	0	0.003	0	70.2	56	53.8	69.1	10.35	0.0741	23	1	100	1
9/23/2012	9:14 AM	60.6	60.6	60.6	59	46.2	0	---	0	0	---	60.6	59.3	59.3	30.039	0	0	0.003	0	70.4	56	54	69.3	10.34	0.0741	23	1	100	1
9/23/2012	9:15 AM	60.5	60.6	60.5	58	45.6	0	---	0	0	---	60.5	59.1	59.1	30.039	0	0	0.003	0	70.6	56	54.1	69.6	10.34	0.0741	23	1	100	1
9/23/2012	9:16 AM	60.6	60.6	60.5	59	46.2	0	---	0	0	---	60.6	59.3	59.3	30.04	0	0	0.003	0	70.7	56	54.2	69.7	10.34	0.0741	24	1	100	1
9/23/2012	9:17 AM	60.6	60.6	60.5

Meteorological Data
Equity IRM

9/23/2012	10:35 AM	63	63	63	52	45.1	0	---	0	0	---	63	61.3	61.3	30.056	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:36 AM	62.9	63	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.053	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:37 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.055	0	0	0.001	0	82	50	61.5	82.6	9.11	0.0722	22	1	95.7	1
9/23/2012	10:38 AM	62.8	62.9	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.056	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	24	1	100	1
9/23/2012	10:39 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	22	1	95.7	1
9/23/2012	10:40 AM	62.7	62.8	62.7	51	44.3	0	---	0	0	---	62.7	60.9	60.9	30.055	0	0	0.002	0	82.3	50	61.8	83.1	9.1	0.0722	23	1	100	1
9/23/2012	10:41 AM	62.8	62.8	62.7	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	22	1	95.7	1
9/23/2012	10:42 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.055	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	23	1	100	1
9/23/2012	10:43 AM	62.9	62.9	62.8	51	44.5	0	---	0	0	---	62.9	61.1	61.1	30.057	0	0	0.001	0	82.7	50	62.2	83.7	9.1	0.0721	23	1	100	1
9/23/2012	10:44 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.059	0	0	0.001	0	82.9	50	62.4	84	9.09	0.0721	22	1	95.7	1
9/23/2012	10:45 AM	63	63	62.9	53	45.6	0	---	0	0	---	63	61.4	61.4	30.055	0	0	0.001	0	82.9	49	61.8	83.9	8.89	0.0721	24	1	100	1
9/23/2012	10:46 AM	63.1	63.1	63	52	45.2	0	---	0	0	---	63.1	61.4	61.4	30.055	0	0	0.001	0	83.1	49	62	84.2	8.89	0.0721	21	1	91.3	1
9/23/2012	10:47 AM	63.1	63.1	63.1	51	44.7	0	---	0	0	---	63.1	61.3	61.3	30.055	0	0	0.001	0	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/23/2012	10:48 AM	63.2	63.2	63.1	51	44.8	0	---	0	0	---	63.2	61.4	61.4	30.054	0	0	0.001	0	83.3	49	62.1	84.5	8.88	0.072	20	1	87	1
9/23/2012	10:49 AM	63.3	63.3	63.2	51	44.9	0	---	0	0	---	63.3	61.5	61.5	30.057	0	0	0.001	0	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/23/2012	10:50 AM	63.4	63.4	63.3	51	44.9	0	---	0	0	---	63.4	61.6	61.6	30.055	0	0	0.001	0	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/23/2012	10:51 AM	63.4	63.5	63.4	52	45.5	0	---	0	0	---	63.4	61.7	61.7	30.055	0	0	0.001	0	83.7	49	62.5	85.2	8.88	0.072	23	1	100	1
9/23/2012	10:52 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.055	0	0	0.001	0	83.7	49	62.5	85.2	8.88	0.072	24	1	100	1
9/23/2012	10:53 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.054	0	0	0.001	0	83.9	49	62.7	85.5	8.87	0.0719	23	1	100	1
9/23/2012	10:54 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.055	0	0	0.001	0	83.9	49	62.7	85.5	8.87	0.0719	24	1	100	1
9/23/2012	10:55 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.054	0	0	0.001	0	84.1	49	62.9	85.8	8.87	0.0719	23	1	100	1
9/23/2012	10:56 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.056	0	0	0.001	0	84.3	49	63.1	86	8.86	0.0719	23	1	100	1
9/23/2012	10:57 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.056	0	0	0.001	0	84.3	49	63.1	86	8.86	0.0719	23	1	100	1
9/23/2012	10:58 AM	63.6	63.6	63.5	51	45.1	0	---	0	0	---	63.6	61.9	61.9	30.054	0	0	0.001	0	84.5	49	63.2	86.2	8.86	0.0718	23	1	100	1
9/23/2012	10:59 AM	63.8	63.8	63.6	50	44.8	0	---	0	0	---	63.8	62	62	30.053	0	0	0.001	0	84.7	49	63.4	86.3	8.86	0.0718	24	1	100	1
9/23/2012	11:00 AM	63.9	63.9	63.8	49	44.4	0	---	0	0	---	63.9	62	62	30.053	0	0	0.001	0	84.7	48	62.8	86.2	8.76	0.0718	23	1	100	1
9/23/2012	11:01 AM	64	64	63.9	49	44.4	0	---	0	0	---	64	62.1	62.1	30.053	0	0	0.001	0	84.9	48	63	86.4	8.75	0.0718	22	1	95.7	1
9/23/2012	11:02 AM	64	64	64	49	44.4	0	---	0	0	---	64	62.1	62.1	30.056	0	0	0.001	0	84.9	48	63	86.4	8.75	0.0718	24	1	100	1
9/23/2012	11:03 AM	64	64.1	64	50	45	0	---	0	0	---	64	62.2	62.2	30.055	0	0	0.001	0	85.1	48	63.2	86.6	8.75	0.0718	23	1	100	1
9/23/2012	11:04 AM	64	64	64	49	44.4	0	---	0	0	---	64	62.1	62.1	30.054	0	0	0.001	0	85.3	48	63.4	86.9	8.74	0.0717	23	1	100	1
9/23/2012	11:05 AM	64.1	64.1	64	49	44.5	0	---	0	0	---	64.1	62.2	62.2	30.052	0	0	0.001	0	85.3	48	63.4	86.9	8.74	0.0717	23	1	100	1
9/23/2012	11:06 AM	64.1	64.1	64.1	49	44.5	0	---	0	0	---	64.1	62.2	62.2	30.051	0	0	0.001	0	85.5	48	63.6	87.1	8.74	0.0717	24	1	100	1
9/23/2012	11:07 AM	64.1	64.1	64.1	50	45.1	0	---	0	0	---	64.1	62.3	62.3	30.052	0	0	0.001	0	85.7	48	63.8	87.4	8.74	0.0716	23	1	100	1
9/23/2012	11:08 AM	64.2	64.2	64.1	50	45.2	0	---	0	0	---	64.2	62.4	62.4	30.053	0	0	0.001	0	85.7	48	63.8	87.4	8.74	0.0716	23	1	100	1
9/23/2012	11:09 AM	64.4	64.4	64.3	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	85.9	48	63.9	87.6	8.73	0.0716	24	1	100	1
9/23/2012	11:10 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.056	0	0	0	0	86.1	48	64.1	87.9	8.73	0.0716	22	1	95.7	1
9/23/2012	11:11 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	86.1	48	64.1	87.9	8.73	0.0716	24	1	100	1
9/23/2012	11:12 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	86.3	48	64.3	88.3	8.72	0.0715	23	1	100	1
9/23/2012	11:13 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.053	0	0	0	0	86.3	48	64.3	88.3	8.72	0.0715	23	1	100	1
9/23/2012	11:14 AM	64.5	64.5	64.4	50	45.4	0	---	0	0	---	64.5	62.8	62.8	30.051	0	0	0	0	86.5	47	63.9	88.4	8.52	0.0715	23	1	100	1
9/23/2012	11:15 AM	64.6	64.6	64.5	50	45.5	0	---	0	0	---	64.6	62.9	62.9	30.052	0	0	0	0	86.5	47	63.9	88.4	8.52	0.0715	23	1	100	1
9/23/2012	11:16 AM	64.7	64.7	64.6	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.053	0	0	0	0	86.7	47	64.1	88.7	8.52	0.0715	24	1	100	1
9/23/2012	11:17 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.051	0	0	0	0	86.7	47	64.1	88.7	8.52	0.0715	23	1	100	1
9/23/2012	11:18 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.052	0	0	0	0	86.9	47	64.2	89	8.51	0.0715	23	1	100	1
9/23/2012	11:19 AM	64.7	64.7	64.7	48	44.5	0	---	0	0	---	64.7	62.8	62.8	30.051	0	0	0	0	86.9	47	64.2	89	8.51	0.0715	23	1	100	1
9/23/2012	11:20 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.053	0	0	0	0	87.1	47	64.4	89.3	8.51	0.0714	23	1	100	1
9/23/2012	11:21 AM	64.8	64.8	64.8	48	44.6	0	---	0	0	---	64.8	62.9	62.9	30.052	0	0	0	0	87.3	47	64.6	89.6	8.5	0.0714	24	1	100	1
9/23/2012	11:22 AM	64.9	64.9	64.8	48	44.7	0	---	0	0	---	64.9	63	63	30.051	0	0	0	0	87.3	47	64.6	89.6	8.5	0.0714	23	1	100	1
9/23/2012	11:23 AM	64.9	64.9	64.9	48	44.7	0	---	0	0	---	64.9	63	63	30.052	0	0	0	0	87.5	47	64.8	89.8	8.5	0.0714	24	1	100	1
9/23/2012	11:24 AM	64.9	64.9	64.9	47	44.2	0	---	0	0	---	64.9	62.9	62.9	30.049	0	0	0	0	87.7	47	65	90	8.5	0.0713	23	1	100	1
9/23/2012	11:25 AM	64.9	64.9	64.9	47	44.2	0	---	0	0	---	64.9	62.9	62.9	30.052	0	0	0	0	87.7	47	65	90	8.5	0.0713	21	1	91.3	1
9/23/2012	11:26 AM	65	65	64.9	48	44.8	0	---	0	0	---	65	63.1	63.1	30.051	0	0	0	0	88	47	65.2	90.4	8.49	0.0713	24	1	100	1
9/23/2012	11:27 AM	65.1	65.1	65	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.052	0	0	0	0	88	47	65.2	90.4	8.49	0.0713	22	1	95.7	1
9/23/2012	11:28 AM	65.1	65.1	65.1	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.053	0	0	0	0	88.2	46	64.8	90.5	8.39	0.0713	24	1	100	1
9/23/2012	11:29 AM	65.1	65.1	65.1	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.053	0	0	0	0	88.4	46	65	90.9	8.38	0.0712	21	1	91.3	1
9/23/2012	11:30 AM	65.1	65.1	65.1	46	43.8	0	---	0	0	---	65.1	63	63	30.052	0	0	0	0	88.4	46	65	90.9	8.38	0.0712	23	1	100	1
9/23/2012	11:31 AM	65.2	65.2	65.1	47	44.5	0	---	0	0	---	65.2	63.2	63.2	30.051	0	0	0	0	88.6	46	65.2	91.4	8.38	0.0712	23	1	100	1
9/23/2012	11:32 AM	65.2	65.2	65.2	47	44.5	0	---	0	0	---	65.2	63.2	63.2	30.05	0	0	0	0	88.6	46	65.2	91.4	8.38	0.0712	23	1	100	1
9/23/2012	11:33 AM	65.3	65.3	65.2	47	44.5	0	---	0	0	---	65.3	63.3	63.3	30.051	0	0	0	0	88.8	46	65.4	91.8	8.37	0.0712	23	1	100	1
9/23/2012	11:34 AM	65.4	65.4	65.3	44	42.9	0	---	0	0	---	65.4	63.2	63.2	30.052	0	0	0	0	88.8	46	65.4	91.8	8.37	0.0712	22	1	95.7	1
9/23/2012	11:35 AM	65.6	65.6	65.5	46	44.3	0	---	0	0	---	65.6	63.6	63.6	30.05	0	0	0	0	89	46	65.5	92.3	8.37	0.0711	24	1	100	1
9/23/2012	11:36 AM	65.7	65.7	65.6	45	43.8	0	---	0	0	---	65.7	63.6	63.6	30.054	0	0	0	0	89	46	65.5	92.3	8.37	0.0711	21	1	91.3	1
9/23/2012	11:37 AM	65.8	65.8	65.7	43	42.7	0	---	0	0	---	65.8	63.5	63.5	30.054	0	0	0	0.001	89.2	46	65.7	92.5	8.37	0.0711	23	1	100	1
9/23/2012	11:38 AM	65.8	65.8	65.8	42	42.1	0	---	0	0	---	65.8	63.4	63.4	30.052	0	0	0	0.001	89.2	46	65.7	92.5	8.37	0.0711	24	1	100	1
9/23/2012	11:39 AM	65.9	65.9	65.9	42	42.1	0	---	0	0	---	65.9	63.5	63.5	30.053	0	0	0	0.001	89.4	46	65.9	92.8	8.36	0.071	23	1	100	1
9/23/2012	11:40 AM	65.9	66	65.9	41	41.5	0	---	0	0	---	65.9	63.4	63.4	30.051	0	0	0	0.001	89.4	46	65.9	92.8	8.36	0.071	24	1	100	1
9/23/2012	11:41 AM	66	66	65.9	41	41.6	0	---	0	0	---	66	63.5	63.5	30.049	0	0	0	0.001	89.6	46	66.1	93.1	8.36	0.071	23	1	100	1
9/23/2012	11:42 AM	66	66	66	39	40.3	0	---	0	0	---	66	63.3	63.3	30.05	0	0	0	0.001	89.6	45	65.4	92.7	8.16	0.071	23	1	100	1
9/23/2012	11:43 AM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.052	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	24	1	100	1
9/23/2012	11:44 AM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.051	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	23	1	100	1
9/23/2012	11:45 AM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.049	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	24	1	100	1
9/23/2012	11:46 AM	66	66	65.9	41	41.6	0	---	0	0	---	66	63.5	63.5	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:47 AM	66.1	66.1	66	41	41.7	0	---	0	0	---	66.1	63.6	63.6	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	22	1	95.7	1
9/23/2012	11:48 AM	66.1	66.1	66.1	41	41.7	0	---	0	0	---	66.1	63.6	63.6	30.051	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:49 AM	66.1	66.2	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:50 AM	66	66.1	66	38	39.7	0	---	0	0	---	66	63.2	63.2	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:51 AM	66.1	66.1	66	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:52 AM	66.2	66.2	66.1	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	24	1	100	1
9/23/2012	11:53 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.052	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:54 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.05	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:55 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:56 AM	66.2	66.2	66.2	37	39.1	0	---	0	0	---	66.2	63.3	63.3	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:57 AM	66.2	66.2	66.2	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.051	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	24	1	100	1
9/23/2012	11:58 AM	66.4	66.4	66.2	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	22	1	95.7	1
9/23/2012	11:59 AM	66.5	66.5	66.4	37	39.4	0	---	0	0	---	66.5	63.6	63.6	30.049	0	0	0	0.001	90.3	44	65.4	93.4	8.04	0.0709	24	1	100	1
9/23/2012	12:00 PM	66.6	66.6	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.049	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	21	1	91.3	1
9/23/2012	12:01 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.048	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	22	1	95.7	1
9/23/2012	12:02 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:03 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:04 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.049	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	24	1	100	1
9/23/2012	12:05 PM	66.7	66.8	66.7	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:06 PM	66.7	66.8	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	22	1	95.7	1
9/23/2012	12:07 PM	66.6	66.7	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:08 PM	66.4	66.5	66.4	38	40	0	---	0	0	---	66.4	63.6	63.6	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	23	1	100	1
9/23/2012	12:09 PM	66.4	66.4	66.4	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.047	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:10 PM	66.5	66.5	66.5	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	22	1	95.7	1
9/23/2012	12:11 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:12 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	22	1	95.7	1
9/23/2012	12:13 PM	66.6	66.7	66.6	37	39.5	0	---	0	0	---	66.6	63.7	63.7	30.052	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	22	1	95.7	1
9/23/2012	12:14 PM	66.5	66.6	66.5	36	38.7	0	---	0	0	---	66.5	63.5	63.5	30.047	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	23	1	100	1
9/23/2012	12:15 PM	66.6	66.6	66.5	37	39.5	0	---	0	0	---	66.6	63.7	63.7	30.051	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	23	1	100	1
9/23/2012	12:16 PM	66.8	66.8	66.6	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.051	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	23

Meteorological Data
Equity IRM

9/23/2012	1:35 PM	68.5	68.5	68.5	37	41.2	0	---	0	0	---	68.5	65.7	65.7	30.04	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:36 PM	68.3	68.5	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.039	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:37 PM	68.3	68.3	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.038	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:38 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.037	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:39 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:40 PM	68.4	68.4	68.4	39	42.5	0	---	0	0	---	68.4	65.9	65.9	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	22	1	95.7	1
9/23/2012	1:41 PM	68.5	68.5	68.4	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.039	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	24	1	100	1
9/23/2012	1:42 PM	68.5	68.5	68.5	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	21	1	91.3	1
9/23/2012	1:43 PM	68.6	68.6	68.5	39	42.6	0	---	0	0	---	68.6	66.1	66.1	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:44 PM	68.7	68.7	68.6	39	42.7	0	---	0	0	---	68.7	66.2	66.2	30.04	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:45 PM	68.8	68.8	68.7	39	42.8	0	---	0	0	---	68.8	66.3	66.3	30.038	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:46 PM	68.8	68.8	68.8	38	42.1	0	---	0	0	---	68.8	66.2	66.2	30.039	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:47 PM	68.9	68.9	68.9	39	42.9	0	---	0	0	---	68.9	66.4	66.4	30.039	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:48 PM	69	69	68.9	37	41.6	0	---	0	0	---	69	66.2	66.2	30.04	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:49 PM	69	69	69	37	41.6	0	---	0	0	---	69	66.2	66.2	30.036	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:50 PM	69.1	69.1	69	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.038	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:51 PM	69.2	69.2	69.1	38	42.5	0	---	0	0	---	69.2	66.5	66.5	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:52 PM	69.2	69.2	69.2	38	42.5	0	---	0	0	---	69.2	66.5	66.5	30.036	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:53 PM	69.3	69.3	69.2	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:54 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:55 PM	69.5	69.5	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.036	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:56 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:57 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:58 PM	69.3	69.4	69.3	36	41.2	0	---	0	0	---	69.3	66.4	66.4	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:59 PM	69.1	69.2	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.036	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	22	1	95.7	1
9/23/2012	2:00 PM	68.9	69.1	68.9	35	40.1	0	---	0	0	---	68.9	65.9	65.9	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	2:01 PM	68.9	68.9	68.9	36	40.8	0	---	0	0	---	68.9	66	66	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	2:02 PM	68.8	68.9	68.8	37	41.5	0	---	0	0	---	68.8	66	66	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	24	1	100	1
9/23/2012	2:03 PM	68.8	68.9	68.8	37	41.5	0	---	0	0	---	68.8	66	66	30.035	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	23	1	100	1
9/23/2012	2:04 PM	68.9	68.9	68.9	37	41.5	0	---	0	0	---	68.9	66.1	66.1	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	22	1	95.7	1
9/23/2012	2:05 PM	69	69	69	37	41.6	0	---	0	0	---	69	66.2	66.2	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	24	1	100	1
9/23/2012	2:06 PM	69.2	69.2	69	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	22	1	95.7	1
9/23/2012	2:07 PM	69.2	69.2	69.2	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	23	1	100	1
9/23/2012	2:08 PM	69.1	69.2	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.038	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	22	1	95.7	1
9/23/2012	2:09 PM	69.1	69.1	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	24	1	100	1
9/23/2012	2:10 PM	69.2	69.2	69.1	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	21	1	91.3	1
9/23/2012	2:11 PM	69.3	69.3	69.3	38	42.6	0	---	0	0	---	69.3	66.6	66.6	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	23	1	100	1
9/23/2012	2:12 PM	69.5	69.5	69.4	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.033	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:13 PM	69.7	69.7	69.5	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.033	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:14 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.03	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:15 PM	69.6	69.7	69.6	37	42.2	0	---	0	0	---	69.6	66.7	66.7	30.032	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	23	1	100	1
9/23/2012	2:16 PM	69.5	69.6	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.032	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	22	1	95.7	1
9/23/2012	2:17 PM	69.5	69.5	69.4	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.031	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	23	1	100	1
9/23/2012	2:18 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.033	0	0	0	0.003	92.9	41	65.7	96.6	7.53	0.0706	23	1	100	1
9/23/2012	2:19 PM	69.2	69.3	69.2	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.034	0	0	0	0.003	92.9	41	65.7	96.6	7.53	0.0706	23	1	100	1
9/23/2012	2:20 PM	69.1	69.2	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.032	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	23	1	100	1
9/23/2012	2:21 PM	69.1	69.1	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.029	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	22	1	95.7	1
9/23/2012	2:22 PM	69.1	69.1	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.031	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	23	1	100	1
9/23/2012	2:23 PM	69.2	69.2	69.1	39	43.2	0	---	0	0	---	69.2	66.6	66.6	30.031	0	0	0	0.003	92.5	41	65.4	95.9	7.55	0.0706	23	1	100	1
9/23/2012	2:24 PM	69.3	69.3	69.3	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.031	0	0	0	0.003	92.5	41	65.4	95.9	7.55	0.0706	24	1	100	1
9/23/2012	2:25 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.032	0	0	0	0.003	92.2	41	65.1	95.3	7.56	0.0707	23	1	100	1
9/23/2012	2:26 PM	69.5	69.5	69.4	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.032	0	0	0	0.003	92.2	42	65.8	95.8	7.66	0.0706	24	1	100	1
9/23/2012	2:27 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.037	0	0	0	0.003	92.2	42	65.8	95.8	7.66	0.0707	23	1	100	1
9/23/2012	2:28 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.033	0	0	0	0.003	92	42	65.6	95.5	7.67	0.0707	21	1	91.3	1
9/23/2012	2:29 PM	69.4	69.5	69.4	38	42.7	0	---	0	0	---	69.4	66.7	66.7	30.034	0	0	0	0.003	92	42	65.6	95.5	7.67	0.0707	24	1	100	1
9/23/2012	2:30 PM	69.3	69.4	69.3	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.033	0	0	0	0.003	91.8	42	65.4	95.1	7.68	0.0707	22	1	95.7	1
9/23/2012	2:31 PM	69.4	69.4	69.3	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.034	0	0	0	0.003	91.8	42	65.4	95.1	7.68	0.0707	23	1	100	1
9/23/2012	2:32 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.034	0	0	0	0.003	91.6	42	65.3	94.8	7.69	0.0708	22	1	95.7	1
9/23/2012	2:33 PM	69.4	69.4	69.3	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.035	0	0	0	0.003	91.6	42	65.3	94.8	7.69	0.0708	23	1	100	1
9/23/2012	2:34 PM	69.4	69.5	69.4	40	44	0	---	0	0	---	69.4	66.9	66.9	30.034	0	0	0	0.003	91.4	42	65.1	94.5	7.69	0.0708	23	1	100	1
9/23/2012	2:35 PM	69.4	69.4	69.4	38	42.7	0	---	0	0	---	69.4	66.7	66.7	30.032	0	0	0	0.003	91.4	42	65.1	94.5	7.69	0.0708	23	1	100	1
9/23/2012	2:36 PM	69.2	69.3	69.2	39	43.2	0	---	0	0	---	69.2	66.6	66.6	30.033	0	0	0	0.003	91.1	42	64.8	93.9	7.71	0.0708	24	1	100	1
9/23/2012	2:37 PM	69	69.2	69	38	42.3	0	---	0	0	---	69	66.4	66.4	30.033	0	0	0	0.003	90.9	42	64.6	93.6	7.71	0.0709	23	1	100	1
9/23/2012	2:38 PM	68.9	69	68.9	39	42.9	0	---	0	0	---	68.9	66.4	66.4	30.033	0	0	0	0.003	90.9	42	64.6	93.6	7.71	0.0709	24	1	100	1
9/23/2012	2:39 PM	69	69	68.9	39	43	0	---	0	0	---	69	66.5	66.5	30.03	0	0	0	0.003	90.7	42	64.5	93.3	7.72	0.0709	22	1	95.7	1
9/23/2012	2:40 PM	69.2	69.2	69	41	44.5	0	---	0	0	---	69.2	66.8	66.8	30.031	0	0	0	0.003	90.5	42	64.3	92.9	7.73	0.0709	23	1	100	1
9/23/2012	2:41 PM	69.4	69.4	69.2	40	44	0	---	0	0	---	69.4	66.9	66.9	30.033	0	0	0	0.003	90.5	42	64.3	92.9	7.73	0.0709	24	1	100	1
9/23/2012	2:42 PM	69.8	69.8	69.5	40	44.4	0	---	0	0	---	69.8	67.2	67.2	30.033	0	0	0	0.003	90.3	42	64.1	92.6	7.74	0.071	23	1	100	1
9/23/2012	2:43 PM	70	70	69.8	39	43.9	0	---	0	0	---	70	67.2	67.2	30.033	0	0	0	0.003	90.1	42	63.9	92.2	7.75	0.071	24	1	100	1
9/23/2012	2:44 PM	70.2	70.2	70.1	39	44.1	0	---	0	0	---	70.2	67.5	67.5	30.03	0	0	0	0.004	89.8	42	63.6	91.8	7.75	0.0711	23	1	100	1
9/23/2012	2:45 PM	70.3	70.3	70.2	38	43.5	0	---	0	0	---	70.3	67.5	67.5	30.03	0	0	0	0.004	89.8	42	63.6	91.8	7.75	0.0711	23	1	100	1
9/23/2012	2:46 PM	70.5	70.5	70.3	37	43	0	---	0	0	---	70.5	67.7	67.7	30.031	0	0	0	0.004	89.6	42	63.5	91.5	7.76	0.0711	24	1	100	1
9/23/2012	2:47 PM	70.5	70.5	70.5	37	43	0	---	0	0	---	70.5	67.7	67.7	30.032	0	0	0	0.004	89.4	42	63.3	91.3	7.76	0.0711	23	1	100	1
9/23/2012	2:48 PM	70.5	70.5	70.5	37	43	0	---	0	0	---	70.5	67.7	67.7	30.031	0	0	0	0.004	89.4	42	63.3	91.3	7.76	0.0711	24	1	100	1
9/23/2012	2:49 PM	70.4	70.5	70.4	37	42.9	0	---	0	0	---	70.4	67.6	67.6	30.032	0	0	0	0.004	89.2	42	63.1	91	7.77	0.0712	23	1	100	1
9/23/2012	2:50 PM	70.2	70.3	70.2	37	42.7	0	---	0	0	---	70.2	67.3	67.3	30.033	0	0	0	0.004	89.2	42	63.1	91	7.77	0.0712	24	1	100	1
9/23/2012	2:51 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.031	0	0	0	0.004	89	42	62.9	90.8	7.77	0.0712	23	1	100	1
9/23/2012	2:52 PM	70	70.1	70	38	43.2	0	---	0	0	---	70	67.1	67.1	30.032	0	0	0	0.003	88.8	42	62.7	90.4	7.77	0.0712	23	1	100	1
9/23/2012	2:53 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.03	0	0	0	0.004	88.8	43	63.4	90.7	7.95	0.0712	23	1	100	1
9/23/2012	2:54 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.031	0	0	0	0.004	88.6	43	63.2	90.3	7.95	0.0712	23	1	100	1
9/23/2012	2:55 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.033	0	0	0	0.003	88.4	43	63.1	89.9	7.95	0.0713	23	1	100	1
9/23/2012	2:56 PM	69.8	70	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.03	0	0	0	0.003	88.2	43	62.9	89.5	7.95	0.0713	23	1	100	1
9/23/2012	2:57 PM	69.6	69.7	69.6	36	41.5	0	---	0	0	---	69.6	66.6	66.6	30.029	0	0	0	0.003	88.2	43	62.9	89.5	7.95	0.0713	22	1	95.7	1
9/23/2012	2:58 PM	69.5	69.5	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.028	0	0	0	0.003	88	43	62.7	89.1	7.95	0.0713	23	1	100	1
9/23/2012	2:59 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.029	0	0	0	0.003	87.7	43	62.4	88.8	7.95	0.0714	22	1	95.7	1
9/23/2012	3:00 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.03	0	0	0	0.003	87.5	43	62.2	88.6	7.95	0.0714	23	1	100	1
9/23/2012	3:01 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.029	0	0	0	0.003	87.5	43	62.2	88.6	7.95	0.0714	23	1	100	1
9/23/2012	3:02 PM	69.8	69.8	69.7	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.031	0	0	0	0.003	87.3	43	62.1	88.4	7.95	0.0715	23	1	100	1
9/23/2012	3:03 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	22	1	95.7	1
9/23/2012	3:04 PM	70	70	69.9	37	42.5	0	---	0	0	---	70	67.1	67.1	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	23	1	100	1
9/23/2012	3:05 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.9	43	61.7	88	7.95	0.0715	24	1	100	1
9/23/2012	3:06 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.032	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	23	1	100	1
9/23/2012	3:07 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	24	1	100	1
9/23/2012	3:08 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.032	0	0	0	0.003	86.5	43	61.3	87.4	7.95	0.0716	23	1	100	1
9/23/2012	3:09 PM	70	70	70	36	41.8	0	---	0	0	---	70	67	67	30.034	0	0	0	0.003	86.3	43	61.2	87.2	7.95	0.0716	23	1	100	1
9/23/2012	3:10 PM	69.9	70	69.9	36	41.7	0	---	0	0	---	69.9	66.9	66.9	30.032	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	24	1	100	1
9/23/2012	3:11 PM	69.8	69.9	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.03	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	23	1	100	1
9/23/2012	3:12 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.028	0	0	0	0.003	85.9	44	61.5	86.8	8.13	0.0717	24	1	100	1
9/23/2012	3:13 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.034	0	0	0	0.003	85.7	44	61.3	86.6	8.14	0.0717	23	1	100	1
9/23/2012	3:14 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.034	0	0	0	0.003	85.7	44	61.3	86.6	8.14	0.0717	24	1	100	1
9/23/2012	3:15 PM	69.6	69.7	69.6	37	42.2	0	---	0	0	---	69.6	66.7	66.7	30.031	0	0	0	0.003	85.5	44	61.1	86.4	8.14	0.0717	23	1	100	1
9/23/2012	3:16 PM	69.5	69.6	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.033	0	0	0	0.003	85.3

Meteorological Data
Equity IRM

9/23/2012	4:35 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.041	0	0	0	0.003	75.4	49	54.9	75.4	9.04	0.0734	22	1	95.7	1
9/23/2012	4:36 PM	69.8	69.8	69.7	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.04	0	0	0	0.003	75.2	49	54.7	75.2	9.05	0.0734	23	1	100	1
9/23/2012	4:37 PM	69.9	69.9	69.8	37	42.4	0	---	0	0	---	69.9	67	67	30.04	0	0	0	0.003	75	49	54.5	75	9.05	0.0735	22	1	95.7	1
9/23/2012	4:38 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.041	0	0	0	0.004	75	49	54.5	75	9.05	0.0735	23	1	100	1
9/23/2012	4:39 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.042	0	0	0	0.004	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:40 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.042	0	0	0	0.003	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:41 PM	69.8	70	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.041	0	0	0	0.003	74.7	49	54.3	74.6	9.05	0.0735	23	1	100	1
9/23/2012	4:42 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.041	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:43 PM	69.5	69.7	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.042	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:44 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.044	0	0	0	0.003	74.3	49	53.9	74.1	9.05	0.0736	23	1	100	1
9/23/2012	4:45 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.045	0	0	0	0.003	74.3	49	53.9	74.1	9.05	0.0736	22	1	95.7	1
9/23/2012	4:46 PM	69.4	69.4	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.046	0	0	0	0.003	74.2	49	53.8	73.9	9.05	0.0736	24	1	100	1
9/23/2012	4:47 PM	69.4	69.4	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.044	0	0	0	0.003	74.2	49	53.8	73.9	9.05	0.0736	23	1	100	1
9/23/2012	4:48 PM	69.4	69.4	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.046	0	0	0	0.003	74	49	53.6	73.6	9.05	0.0736	24	1	100	1
9/23/2012	4:49 PM	69.4	69.4	69.3	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.045	0	0	0	0.003	73.8	49	53.4	73.4	9.05	0.0737	23	1	100	1
9/23/2012	4:50 PM	69.4	69.4	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.044	0	0	0	0.003	73.8	49	53.4	73.4	9.05	0.0737	23	1	100	1
9/23/2012	4:51 PM	69.5	69.5	69.4	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	73.6	49	53.3	73.2	9.05	0.0737	24	1	100	1
9/23/2012	4:52 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.043	0	0	0	0.003	73.6	50	53.8	73.2	9.25	0.0737	22	1	95.7	1
9/23/2012	4:53 PM	69.6	69.6	69.5	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.042	0	0	0	0.003	73.5	50	53.7	73.1	9.25	0.0737	24	1	100	1
9/23/2012	4:54 PM	69.6	69.6	69.6	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.042	0	0	0	0.003	73.3	50	53.5	72.9	9.25	0.0737	22	1	95.7	1
9/23/2012	4:55 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.3	50	53.5	72.9	9.25	0.0737	23	1	100	1
9/23/2012	4:56 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.1	50	53.4	72.6	9.25	0.0738	23	1	100	1
9/23/2012	4:57 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.1	50	53.4	72.6	9.25	0.0738	23	1	100	1
9/23/2012	4:58 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	73	50	53.3	72.5	9.25	0.0738	23	1	100	1
9/23/2012	4:59 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	73	50	53.3	72.5	9.25	0.0738	23	1	100	1
9/23/2012	5:00 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	72.8	50	53.1	72.2	9.25	0.0738	23	1	100	1
9/23/2012	5:01 PM	69.6	69.6	69.5	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.043	0	0	0	0.003	72.6	50	52.9	71.9	9.25	0.0739	23	1	100	1
9/23/2012	5:02 PM	69.5	69.6	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	72.6	50	52.9	71.9	9.25	0.0739	23	1	100	1
9/23/2012	5:03 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.041	0	0	0	0.003	72.4	50	52.7	71.7	9.25	0.0739	23	1	100	1
9/23/2012	5:04 PM	69.5	69.5	69.4	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	72.4	50	52.7	71.7	9.25	0.0739	22	1	95.7	1
9/23/2012	5:05 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.043	0	0	0	0.003	72.3	50	52.6	71.5	9.25	0.0739	23	1	100	1
9/23/2012	5:06 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	72.3	50	52.6	71.5	9.25	0.0739	23	1	100	1
9/23/2012	5:07 PM	69.5	69.6	69.5	34	39.9	0	---	0	0	---	69.5	66.3	66.3	30.046	0	0	0	0.003	72.1	50	52.4	71.2	9.25	0.074	22	1	95.7	1
9/23/2012	5:08 PM	69.5	69.5	69.5	34	39.9	0	---	0	0	---	69.5	66.3	66.3	30.048	0	0	0	0.003	71.9	50	52.2	70.9	9.25	0.074	24	1	100	1
9/23/2012	5:09 PM	69.4	69.5	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.046	0	0	0	0.003	71.9	50	52.2	70.9	9.25	0.074	22	1	95.7	1
9/23/2012	5:10 PM	69.3	69.4	69.3	34	39.7	0	---	0	0	---	69.3	66.2	66.2	30.048	0	0	0	0.003	71.8	50	52.2	70.8	9.25	0.074	24	1	100	1
9/23/2012	5:11 PM	69.1	69.2	69.1	34	39.5	0	---	0	0	---	69.1	66	66	30.045	0	0	0	0.003	71.8	50	52.2	70.8	9.25	0.074	23	1	100	1
9/23/2012	5:12 PM	69	69.1	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.046	0	0	0	0.003	71.6	50	52	70.5	9.25	0.074	23	1	100	1
9/23/2012	5:13 PM	69	69	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.045	0	0	0	0.003	71.4	51	52.3	70.3	9.42	0.0741	24	1	100	1
9/23/2012	5:14 PM	69	69	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.049	0	0	0	0.003	71.4	51	52.3	70.3	9.42	0.0741	23	1	100	1
9/23/2012	5:15 PM	69	69	69	33	38.7	0	---	0	0	---	69	65.8	65.8	30.049	0	0	0	0.003	71.2	51	52.1	70	9.43	0.0741	24	1	100	1
9/23/2012	5:16 PM	68.9	69	68.9	33	38.6	0	---	0	0	---	68.9	65.7	65.7	30.049	0	0	0	0.003	71.2	51	52.1	70	9.43	0.0741	23	1	100	1
9/23/2012	5:17 PM	68.8	68.9	68.8	33	38.5	0	---	0	0	---	68.8	65.6	65.6	30.051	0	0	0	0.003	71.1	51	52	69.8	9.43	0.0741	23	1	100	1
9/23/2012	5:18 PM	68.6	68.7	68.6	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.049	0	0	0	0.002	71.1	51	52	69.8	9.43	0.0741	22	1	95.7	1
9/23/2012	5:19 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.047	0	0	0	0.002	70.9	51	51.9	69.6	9.43	0.0741	23	1	100	1
9/23/2012	5:20 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.049	0	0	0	0.002	70.7	51	51.7	69.3	9.44	0.0742	23	1	100	1
9/23/2012	5:21 PM	68.5	68.5	68.4	35	39.8	0	---	0	0	---	68.5	65.5	65.5	30.049	0	0	0	0.002	70.7	51	51.7	69.3	9.44	0.0742	23	1	100	1
9/23/2012	5:22 PM	68.5	68.5	68.4	34	39	0	---	0	0	---	68.5	65.4	65.4	30.051	0	0	0	0.002	70.6	51	51.6	69.2	9.44	0.0742	23	1	100	1
9/23/2012	5:23 PM	68.5	68.5	68.5	33	38.2	0	---	0	0	---	68.5	65.3	65.3	30.05	0	0	0	0.002	70.6	51	51.6	69.2	9.44	0.0742	23	1	100	1
9/23/2012	5:24 PM	68.5	68.5	68.5	33	38.2	0	---	0	0	---	68.5	65.3	65.3	30.051	0	0	0	0.002	70.4	51	51.4	68.9	9.44	0.0742	22	1	95.7	1
9/23/2012	5:25 PM	68.6	68.6	68.6	33	38.3	0	---	0	0	---	68.6	65.4	65.4	30.05	0	0	0	0.002	70.2	51	51.2	68.6	9.45	0.0743	24	1	100	1
9/23/2012	5:26 PM	68.7	68.7	68.6	33	38.4	0	---	0	0	---	68.7	65.5	65.5	30.05	0	0	0	0.003	70.2	51	51.2	68.6	9.45	0.0743	22	1	95.7	1
9/23/2012	5:27 PM	68.7	68.7	68.6	33	38.4	0	---	0	0	---	68.7	65.5	65.5	30.05	0	0	0	0.003	70.1	51	51.1	68.5	9.45	0.0743	23	1	100	1
9/23/2012	5:28 PM	68.7	68.7	68.7	34	39.2	0	---	0	0	---	68.7	65.6	65.6	30.049	0	0	0	0.003	70.1	51	51.1	68.5	9.45	0.0743	23	1	100	1
9/23/2012	5:29 PM	68.7	68.7	68.7	34	39.2	0	---	0	0	---	68.7	65.6	65.6	30.049	0	0	0	0.003	69.9	51	50.9	68.3	9.45	0.0743	23	1	100	1
9/23/2012	5:30 PM	68.6	68.7	68.6	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.049	0	0	0	0.002	69.9	51	50.9	68.3	9.45	0.0743	23	1	100	1
9/23/2012	5:31 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.049	0	0	0	0.002	69.7	51	50.8	68.2	9.46	0.0744	23	1	100	1
9/23/2012	5:32 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.049	0	0	0	0.002	69.7	51	50.8	68.2	9.46	0.0744	24	1	100	1
9/23/2012	5:33 PM	68.4	68.4	68.3	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.048	0	0	0	0.002	69.6	52	51.2	68.2	9.66	0.0744	23	1	100	1
9/23/2012	5:34 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.048	0	0	0	0.002	69.6	51	50.7	68.1	9.46	0.0744	24	1	100	1
9/23/2012	5:35 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.05	0	0	0	0.002	69.4	52	51	68	9.66	0.0744	23	1	100	1
9/23/2012	5:36 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.05	0	0	0	0.002	69.4	52	51	68	9.66	0.0744	23	1	100	1
9/23/2012	5:37 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.051	0	0	0	0.002	69.2	52	50.8	67.9	9.67	0.0744	23	1	100	1
9/23/2012	5:38 PM	68.3	68.4	68.3	35	39.6	0	---	0	0	---	68.3	65.3	65.3	30.049	0	0	0	0.002	69.2	52	50.8	67.9	9.67	0.0744	23	1	100	1
9/23/2012	5:39 PM	68.4	68.4	68.3	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.05	0	0	0	0.002	69	52	50.6	67.8	9.67	0.0745	24	1	100	1
9/23/2012	5:40 PM	68.4	68.4	68.4	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.052	0	0	0	0.002	69	52	50.6	67.8	9.67	0.0745	23	1	100	1
9/23/2012	5:41 PM	68.5	68.5	68.5	35	39.8	0	---	0	0	---	68.5	65.5	65.5	30.051	0	0	0	0.002	68.9	52	50.5	67.7	9.67	0.0745	24	1	100	1
9/23/2012	5:42 PM	68.6	68.6	68.5	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.056	0	0	0	0.002	68.9	52	50.5	67.7	9.67	0.0745	23	1	100	1
9/23/2012	5:43 PM	68.6	68.6	68.5	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.055	0	0	0	0.002	68.7	52	50.4	67.5	9.68	0.0745	23	1	100	1
9/23/2012	5:44 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.053	0	0	0	0.002	68.7	52	50.4	67.5	9.68	0.0745	24	1	100	1
9/23/2012	5:45 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.055	0	0	0	0.002	68.5	52	50.2	67.3	9.68	0.0746	23	1	100	1
9/23/2012	5:46 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.055	0	0	0	0.002	68.5	52	50.2	67.3	9.68	0.0746	24	1	100	1
9/23/2012	5:47 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.057	0	0	0	0.002	68.4	52	50.1	67.2	9.68	0.0746	23	1	100	1
9/23/2012	5:48 PM	68.5	68.5	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.056	0	0	0	0.002	68.4	52	50.1	67.2	9.68	0.0746	23	1	100	1
9/23/2012	5:49 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.054	0	0	0	0.002	68.2	52	49.9	67.1	9.69	0.0746	24	1	100	1
9/23/2012	5:50 PM	68.2	68.4	68.2	35	39.5	0	---	0	0	---	68.2	65.2	65.2	30.055	0	0	0	0.002	68.2	52	49.9	67.1	9.69	0.0746	23	1	100	1
9/23/2012	5:51 PM	68.1	68.2	68.1	35	39.4	0	---	0	0	---	68.1	65.1	65.1	30.053	0	0	0	0.002	68	52	49.7	66.9	9.69	0.0746	24	1	100	1
9/23/2012	5:52 PM	67.9	68	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.052	0	0	0	0.002	68	52	49.7	66.9	9.69	0.0746	23	1	100	1
9/23/2012	5:53 PM	67.8	67.9	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.053	0	0	0	0.002	67.9	52	49.6	66.8	9.69	0.0747	24	1	100	1
9/23/2012	5:54 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.054	0	0	0	0.002	67.9	52	49.6	66.8	9.69	0.0747	23	1	100	1
9/23/2012	5:55 PM	67.8	67.8	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.056	0	0	0	0.002	67.7	52	49.4	66.6	9.7	0.0747	23	1	100	1
9/23/2012	5:56 PM	67.8	67.8	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.056	0	0	0	0.002	67.7	52	49.4	66.6	9.7	0.0747	24	1	100	1
9/23/2012	5:57 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.5	52	49.3	66.3	9.7	0.0747	23	1	100	1
9/23/2012	5:58 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.5	52	49.3	66.3	9.7	0.0747	24	1	100	1
9/23/2012	5:59 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.4	52	49.2	66.2	9.7	0.0748	22	1	95.7	1
9/23/2012	6:00 PM	67.9	67.9	67.8	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.4	53	49.7	66.3	9.9	0.0747	23	1	100	1
9/23/2012	6:01 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.4	53	49.7	66.3	9.9	0.0747	22	1	95.7	1
9/23/2012	6:02 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.2	53	49.5	66.1	9.91	0.0748	23	1	100	1
9/23/2012	6:03 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.06	0	0	0	0.002	67.2	53	49.5	66.1	9.91	0.0748	24	1	100	1
9/23/2012	6:04 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.058	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:05 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:06 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	23	1	100	1
9/23/2012	6:07 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.061	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	22	1	95.7	1
9/23/2012	6:08 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	24	1	100	1
9/23/2012	6:09 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	22	1	95.7	1
9/23/2012	6:10 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	23	1	100	1
9/23/2012	6:11 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.061	0	0	0	0.002	66.6	53	48.9	65.4	9.92	0.0749	23	1	100	1
9/23/2012	6:12 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.062	0	0	0	0.002	66.6	53	48.9	65.4	9.92	0.0749	22	1	95.7	1
9/23/2012	6:13 PM	67.8	67.8	67.7	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.062	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	24	1	100	1
9/23/2012	6:14 PM	67.7	67.7	67.7	36	39.8	0	---	0	0	---	67.7	64.8	64.8	30.063	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	21	1	91.3	1
9/23/2012	6:15 PM	67.6	67.7	67.6	36	39.7	0	---	0	0	---	67.6	64.7	64.7	30.062	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	24	1	100	1
9/23/2012	6:16 PM	67.5	67.6	67.5	36

Meteorological Data
Equity IRM

9/23/2012	7:35 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	24	1	100	1
9/23/2012	7:36 PM	65.4	65.4	65.3	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.079	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:37 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:38 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:39 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.081	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:40 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:41 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:42 PM	65.2	65.3	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	24	1	100	1
9/23/2012	7:43 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:44 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.084	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	24	1	100	1
9/23/2012	7:45 PM	65.1	65.2	65.1	42	41.4	0	---	0	0	---	65.1	62.7	62.7	30.086	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:46 PM	65.1	65.1	65.1	43	42	0	---	0	0	---	65.1	62.7	62.7	30.086	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:47 PM	65	65.1	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	24	1	100	1
9/23/2012	7:48 PM	65	65	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.087	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	23	1	100	1
9/23/2012	7:49 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.087	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	24	1	100	1
9/23/2012	7:50 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.085	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:51 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:52 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:53 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.085	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:54 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.085	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:55 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.086	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:56 PM	64.9	65	64.9	45	43	0	---	0	0	---	64.9	62.7	62.7	30.087	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:57 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.087	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:58 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.087	0	0	0	0	60.5	56	44.7	59	10.45	0.076	22	1	95.7	1
9/23/2012	7:59 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.09	0	0	0	0	60.5	56	44.7	59	10.45	0.076	24	1	100	1
9/23/2012	8:00 PM	64.8	64.9	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.5	56	44.7	59	10.45	0.076	22	1	95.7	1
9/23/2012	8:01 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.5	56	44.7	59	10.45	0.076	23	1	100	1
9/23/2012	8:02 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	23	1	100	1
9/23/2012	8:03 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.089	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	22	1	95.7	1
9/23/2012	8:04 PM	64.7	64.8	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.089	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	24	1	100	1
9/23/2012	8:05 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.091	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	22	1	95.7	1
9/23/2012	8:06 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.09	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	24	1	100	1
9/23/2012	8:07 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.089	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	23	1	100	1
9/23/2012	8:08 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.09	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	24	1	100	1
9/23/2012	8:09 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.091	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	23	1	100	1
9/23/2012	8:10 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.091	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:11 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	24	1	100	1
9/23/2012	8:12 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:13 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	24	1	100	1
9/23/2012	8:14 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:15 PM	64.7	64.7	64.6	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:16 PM	64.6	64.7	64.6	45	42.8	0	---	0	0	---	64.6	62.4	62.4	30.092	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	24	1	100	1
9/23/2012	8:17 PM	64.6	64.6	64.6	45	42.8	0	---	0	0	---	64.6	62.4	62.4	30.094	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:18 PM	64.5	64.6	64.5	45	42.7	0	---	0	0	---	64.5	62.3	62.3	30.093	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	24	1	100	1
9/23/2012	8:19 PM	64.5	64.5	64.5	45	42.7	0	---	0	0	---	64.5	62.3	62.3	30.093	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:20 PM	64.4	64.5	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	24	1	100	1
9/23/2012	8:21 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.092	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:22 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:23 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:24 PM	64.4	64.4	64.3	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.093	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:25 PM	64.3	64.3	64.3	45	42.5	0	---	0	0	---	64.3	62.1	62.1	30.094	0	0	0	0	59.6	56	43.9	58.1	10.45	0.0761	24	1	100	1
9/23/2012	8:26 PM	64.3	64.3	64.3	46	43.1	0	---	0	0	---	64.3	62.2	62.2	30.096	0	0	0	0	59.6	56	43.9	58.1	10.45	0.0761	23	1	100	1
9/23/2012	8:27 PM	64.2	64.3	64.2	45	42.4	0	---	0	0	---	64.2	62	62	30.096	0	0	0.001	0	59.6	56	43.9	58.1	10.45	0.0761	21	1	91.3	1
9/23/2012	8:28 PM	64.2	64.2	64.2	46	43	0	---	0	0	---	64.2	62.1	62.1	30.096	0	0	0.001	0	59.6	56	43.9	58.1	10.45	0.0761	24	1	100	1
9/23/2012	8:29 PM	64.1	64.1	64.1	46	42.9	0	---	0	0	---	64.1	62	62	30.096	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:30 PM	64	64.1	64	46	42.8	0	---	0	0	---	64	61.9	61.9	30.096	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	24	1	100	1
9/23/2012	8:31 PM	64	64	64	46	42.8	0	---	0	0	---	64	61.9	61.9	30.093	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:32 PM	63.9	64	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.092	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	24	1	100	1
9/23/2012	8:33 PM	63.9	63.9	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.093	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:34 PM	63.9	63.9	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.093	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	23	1	100	1
9/23/2012	8:35 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	24	1	100	1
9/23/2012	8:36 PM	63.8	63.8	63.8	45	42	0	---	0	0	---	63.8	61.6	61.6	30.092	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	23	1	100	1
9/23/2012	8:37 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	24	1	100	1
9/23/2012	8:38 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:39 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.092	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:40 PM	63.7	63.8	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.094	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	24	1	100	1
9/23/2012	8:41 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.092	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:42 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.093	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	24	1	100	1
9/23/2012	8:43 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.095	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	23	1	100	1
9/23/2012	8:44 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	22	1	95.7	1
9/23/2012	8:45 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.094	0	0	0.001	0	58.8	56	43.1	57.3	10.45	0.0763	23	1	100	1
9/23/2012	8:46 PM	63.7	63.8	63.7	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.095	0	0	0.001	0	58.8	56	43.1	57.3	10.45	0.0763	22	1	95.7	1
9/23/2012	8:47 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	24	1	100	1
9/23/2012	8:48 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	22	1	95.7	1
9/23/2012	8:49 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	24	1	100	1
9/23/2012	8:50 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	22	1	95.7	1
9/23/2012	8:51 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	21	1	91.3	1
9/23/2012	8:52 PM	63.7	63.8	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	23	1	100	1
9/23/2012	8:53 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	22	1	95.7	1
9/23/2012	8:54 PM	63.7	63.7	63.7	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	24	1	100	1
9/23/2012	8:55 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.095	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	22	1	95.7	1
9/23/2012	8:56 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	22	1	95.7	1
9/23/2012	8:57 PM	63.7	63.7	63.6	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	23	1	100	1
9/23/2012	8:58 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	8:59 PM	63.7	63.7	63.6	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	23	1	100	1
9/23/2012	9:00 PM	63.6	63.7	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.098	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	9:01 PM	63.6	63.7	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	23	1	100	1
9/23/2012	9:02 PM	63.6	63.6	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	9:03 PM	63.6	63.6	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.099	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:04 PM	63.5	63.6	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.096	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:05 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:06 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:07 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:08 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:09 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:10 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:11 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:12 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:13 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:14 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.096	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:15 PM	63.6	63.6	63.5	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.101	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	22	1	95.7	1
9/23/2012	9:16 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.099	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:17 PM	63.6	63.6	63.6	45	41.9

Meteorological Data
Equity IRM

9/23/2012	10:35 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:36 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:37 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:38 PM	62.4	62.5	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.113	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:39 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:40 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:41 PM	62.3	62.4	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:42 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:43 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.116	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:44 PM	62.3	62.3	62.3	51	43.9	0	---	0	0	---	62.3	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:45 PM	62.3	62.3	62.3	51	43.9	0	---	0	0	---	62.3	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:46 PM	62.2	62.3	62.2	51	43.8	0	---	0	0	---	62.2	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:47 PM	62.2	62.2	62.2	51	43.8	0	---	0	0	---	62.2	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:48 PM	62.1	62.2	62.1	51	43.7	0	---	0	0	---	62.1	60.3	60.3	30.115	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:49 PM	62.1	62.1	62.1	51	43.7	0	---	0	0	---	62.1	60.3	60.3	30.116	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:50 PM	62	62.1	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	24	1	100	1
9/23/2012	10:51 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.119	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:52 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	24	1	100	1
9/23/2012	10:53 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:54 PM	62	62	61.9	51	43.7	0	---	0	0	---	62	60.2	60.2	30.116	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:55 PM	62	62	61.9	51	43.7	0	---	0	0	---	62	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	10:56 PM	61.9	62	61.9	51	43.6	0	---	0	0	---	61.9	60.1	60.1	30.119	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	10:57 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	10:58 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	10:59 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	11:00 PM	61.8	61.9	61.8	53	44.5	0	---	0	0	---	61.8	60.1	60.1	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	11:01 PM	61.8	61.8	61.8	52	44	0	---	0	0	---	61.8	60	60	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:02 PM	61.7	61.8	61.7	52	43.9	0	---	0	0	---	61.7	59.9	59.9	30.117	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	24	1	100	1
9/23/2012	11:03 PM	61.6	61.7	61.6	52	43.8	0	---	0	0	---	61.6	59.8	59.8	30.117	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:04 PM	61.6	61.6	61.6	52	43.8	0	---	0	0	---	61.6	59.8	59.8	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	24	1	100	1
9/23/2012	11:05 PM	61.5	61.6	61.5	52	43.7	0	---	0	0	---	61.5	59.7	59.7	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:06 PM	61.5	61.6	61.5	52	43.7	0	---	0	0	---	61.5	59.7	59.7	30.118	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	23	1	100	1
9/23/2012	11:07 PM	61.4	61.5	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	24	1	100	1
9/23/2012	11:08 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	23	1	100	1
9/23/2012	11:09 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	24	1	100	1
9/23/2012	11:10 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.122	0	0	0.003	0	56.3	58	41.7	54.9	10.75	0.0768	23	1	100	1
9/23/2012	11:11 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.121	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	24	1	100	1
9/23/2012	11:12 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.121	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	23	1	100	1
9/23/2012	11:13 PM	61.2	61.3	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.12	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	23	1	100	1
9/23/2012	11:14 PM	61.3	61.3	61.2	51	43	0	---	0	0	---	61.3	59.4	59.4	30.12	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	24	1	100	1
9/23/2012	11:15 PM	61.3	61.3	61.2	51	43	0	---	0	0	---	61.3	59.4	59.4	30.12	0	0	0.003	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:16 PM	61.3	61.3	61.3	51	43	0	---	0	0	---	61.3	59.4	59.4	30.117	0	0	0.003	0	56	58	41.4	54.6	10.75	0.0768	24	1	100	1
9/23/2012	11:17 PM	61.4	61.4	61.3	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:18 PM	61.4	61.4	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:19 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.114	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	24	1	100	1
9/23/2012	11:20 PM	61.4	61.5	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:21 PM	61.5	61.5	61.5	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	24	1	100	1
9/23/2012	11:22 PM	61.4	61.5	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	22	1	95.7	1
9/23/2012	11:23 PM	61.5	61.5	61.4	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.112	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:24 PM	61.5	61.5	61.4	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:25 PM	61.4	61.4	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.112	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:26 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.113	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:27 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.113	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:28 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.113	0	0	0.003	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:29 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.113	0	0	0.003	0	55.7	58	41.1	54.3	10.75	0.0768	22	1	95.7	1
9/23/2012	11:30 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.112	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:31 PM	61.2	61.3	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:32 PM	61.2	61.2	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:33 PM	61.2	61.2	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:34 PM	61.1	61.2	61.1	52	43.3	0	---	0	0	---	61.1	59.3	59.3	30.114	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:35 PM	61.1	61.1	61.1	52	43.3	0	---	0	0	---	61.1	59.3	59.3	30.114	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	22	1	95.7	1
9/23/2012	11:36 PM	61	61.1	61	53	43.7	0	---	0	0	---	61	59.2	59.2	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:37 PM	60.9	61	60.9	52	43.1	0	---	0	0	---	60.9	59.1	59.1	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	23	1	100	1
9/23/2012	11:38 PM	60.9	60.9	60.9	53	43.6	0	---	0	0	---	60.9	59.1	59.1	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:39 PM	60.8	60.9	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.115	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	23	1	100	1
9/23/2012	11:40 PM	60.8	60.9	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.115	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:41 PM	60.8	60.8	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:42 PM	60.7	60.8	60.7	54	43.9	0	---	0	0	---	60.7	59	59	30.115	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:43 PM	60.7	60.7	60.7	53	43.5	0	---	0	0	---	60.7	58.9	58.9	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	24	1	100	1
9/23/2012	11:44 PM	60.7	60.7	60.7	54	43.9	0	---	0	0	---	60.7	59	59	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:45 PM	60.6	60.7	60.6	54	43.9	0	---	0	0	---	60.6	58.9	58.9	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	24	1	100	1
9/23/2012	11:46 PM	60.6	60.6	60.6	54	43.9	0	---	0	0	---	60.6	58.9	58.9	30.116	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:47 PM	60.5	60.6	60.5	54	43.8	0	---	0	0	---	60.5	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:48 PM	60.5	60.5	60.5	55	44.2	0	---	0	0	---	60.5	58.9	58.9	30.115	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	24	1	100	1
9/23/2012	11:49 PM	60.4	60.5	60.4	55	44.2	0	---	0	0	---	60.4	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:50 PM	60.4	60.4	60.4	55	44.2	0	---	0	0	---	60.4	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	24	1	100	1
9/23/2012	11:51 PM	60.3	60.4	60.3	56	44.5	0	---	0	0	---	60.3	58.8	58.8	30.114	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:52 PM	60.3	60.3	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.115	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	24	1	100	1
9/23/2012	11:53 PM	60.2	60.3	60.2	57	44.9	0	---	0	0	---	60.2	58.7	58.7	30.116	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:54 PM	60.2	60.2	60.2	56	44.4	0	---	0	0	---	60.2	58.7	58.7	30.115	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:55 PM	60.1	60.2	60.1	57	44.8	0	---	0	0	---	60.1	58.6	58.6	30.116	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/23/2012	11:56 PM	60	60.1	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.117	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	23	1	100	1
9/23/2012	11:57 PM	60	60	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.117	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/23/2012	11:58 PM	60	60	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.116	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	22	1	95.7	1
9/23/2012	11:59 PM	59.9	60	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.117	0	0	0.004	0	54.8	58	40.3	53.4	10.75	0.077	23	1	100	1
9/24/2012	12:00 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.117	0	0	0.004	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/24/2012	12:01 AM	59.8	59.8	59.8	59	45.4	0	---	0	0	---	59.8	58.4	58.4	30.116	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	22	1	95.7	1
9/24/2012	12:02 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.115	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:03 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.115	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:04 AM	59.7	59.7	59.6	60	45.8	0	---	0	0	---	59.7	58.4	58.4	30.116	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	24	1	100	1
9/24/2012	12:05 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.117	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:06 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.115	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:07 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:08 AM	59.5	59.5	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:09 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:10 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.116	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:11 AM	59.4	59.5	59.4	59	45.1	0	---	0	0	---	59.4	58	58	30.115	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	24	1	100	1
9/24/2012	12:12 AM	59.4	59.4	59.4	58	44.6	0	---	0	0	---	59.4	58	58	30.114	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	23	1	100	1
9/24/2012	12:13 AM	59.3	59.4	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	59	40.3	53	10.95	0.0771	24	1	100	1
9/24/2012	12:14 AM	59.3	59.3	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	59	40.3	53	10.95	0.0771	23	1	100	1
9/24/2012	12:15 AM	59.3	59.3	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	23	1	100	1
9/24/2012	12:16 AM	59.2	59.3	59.2	61	45.8	0	---	0	0	---	59.2	58	58	30.115	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771

Meteorological Data
Equity IRM

9/24/2012	1:35 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:36 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:37 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:38 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:39 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:40 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:41 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:42 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:43 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:44 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:45 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:46 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:47 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:48 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:49 AM	59	59	58.9	57	43.8	0	---	0	0	---	59	57.5	57.5	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:50 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:51 AM	58.9	58.9	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.115	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:52 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.115	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:53 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.114	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:54 AM	58.8	58.9	58.8	57	43.6	0	---	0	0	---	58.8	57.3	57.3	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	1:55 AM	58.9	58.9	58.8	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	1:56 AM	58.9	58.9	58.8	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:57 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	1:58 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:59 AM	59	59	59	56	43.3	0	---	0	0	---	59	57.5	57.5	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:00 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:01 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:02 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:03 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:04 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:05 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:06 AM	59.1	59.1	59.1	56	43.4	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:07 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:08 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:09 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:10 AM	59.1	59.1	59.1	56	43.4	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:11 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:12 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	21	1	91.3	1
9/24/2012	2:13 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:14 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:15 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:16 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:17 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:18 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:19 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:20 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:21 AM	59.1	59.1	59	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:22 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:23 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:24 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:25 AM	59.1	59.1	59	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:26 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:27 AM	59	59	59	58	44.2	0	---	0	0	---	59	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:28 AM	58.9	59	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:29 AM	58.9	58.9	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:30 AM	58.8	58.9	58.8	58	44	0	---	0	0	---	58.8	57.4	57.4	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:31 AM	58.7	58.8	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:32 AM	58.7	58.7	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:33 AM	58.7	58.7	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:34 AM	58.6	58.7	58.6	59	44.3	0	---	0	0	---	58.6	57.2	57.2	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:35 AM	58.6	58.6	58.6	59	44.3	0	---	0	0	---	58.6	57.2	57.2	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:36 AM	58.5	58.6	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.109	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:37 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.11	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:38 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.109	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:39 AM	58.5	58.5	58.4	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:40 AM	58.4	58.5	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:41 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:42 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.112	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:43 AM	58.4	58.4	58.3	59	44.1	0	---	0	0	---	58.4	57	57	30.112	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:44 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:45 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:46 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:47 AM	58.5	58.5	58.4	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:48 AM	58.5	58.5	58.5	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.112	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:49 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:50 AM	58.5	58.5	58.5	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:51 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:52 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:53 AM	58.4	58.5	58.4	60	44.6	0	---	0	0	---	58.4	57.1	57.1	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:54 AM	58.4	58.4	58.4	60	44.6	0	---	0	0	---	58.4	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:55 AM	58.4	58.4	58.4	61	45	0	---	0	0	---	58.4	57.2	57.2	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:56 AM	58.4	58.4	58.4	62	45.4	0	---	0	0	---	58.4	57.2	57.2	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:57 AM	58.3	58.4	58.3	62	45.3	0	---	0	0	---	58.3	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:58 AM	58.2	58.3	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:59 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:00 AM	58.1	58.2	58.1	62	45.1	0	---	0	0	---	58.1	56.9	56.9	30.108	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	24	1	100	1
9/24/2012	3:01 AM	58	58.1	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:02 AM	58	58	58	62	45	0	---	0	0	---	58	56.8	56.8	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	3:03 AM	57.9	58	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:04 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:05 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.108	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	23	1	100	1
9/24/2012	3:06 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.107	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	22	1	95.7	1
9/24/2012	3:07 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:08 AM	57.9	57.9	57.8	62	45	0	---	0	0	---	57.9	56.7	56.7	30.11	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:09 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.111	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:10 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:11 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	23	1	100	1
9/24/2012	3:12 AM	57.7	57.8	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:13 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.11	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	23	1	100	1
9/24/2012	3:14 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:15 AM	57.6	57.7	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.109	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	23	1	100	1
9/24/2012	3:16 AM	57.6	57.7	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.109	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	24	1	100	1
9/24/2012	3:17 AM	57.6	57.6	57.6	63	45.1	0	---	0	0	---

Meteorological Data
Equity IRM

9/24/2012	4:35 AM	57.4	57.4	57.3	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:36 AM	57.3	57.4	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:37 AM	57.3	57.4	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.114	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:38 AM	57.3	57.3	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:39 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:40 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.117	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:41 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.118	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:42 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:43 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	24	1	100	1
9/24/2012	4:44 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:45 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	22	1	95.7	1
9/24/2012	4:46 AM	57.2	57.2	57.2	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.116	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	24	1	100	1
9/24/2012	4:47 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.116	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	22	1	95.7	1
9/24/2012	4:48 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:49 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.118	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:50 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.118	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:51 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:52 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:53 AM	57.1	57.2	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	4:54 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.118	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:55 AM	57.1	57.2	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	4:56 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.114	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:57 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:58 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	4:59 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	5:00 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	5:01 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	59	36.7	49.6	10.95	0.0777	23	1	100	1
9/24/2012	5:02 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	59	36.7	49.6	10.95	0.0777	24	1	100	1
9/24/2012	5:03 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:04 AM	57	57.1	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.115	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:05 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.115	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:06 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.116	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:07 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.116	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:08 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.117	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:09 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.118	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:10 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.118	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:11 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:12 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:13 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:14 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:15 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:16 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:17 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:18 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:19 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:20 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:21 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:22 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:23 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:24 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:25 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:26 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:27 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:28 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:29 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:30 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:31 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:32 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:33 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:34 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:35 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:36 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:37 AM	56.8	56.9	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:38 AM	56.9	56.9	56.8	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:39 AM	56.9	56.9	56.8	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:40 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:41 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:42 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:43 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:44 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:45 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:46 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:47 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:48 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:49 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:50 AM	56.9	56.9	56.9	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:51 AM	56.8	56.9	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:52 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:53 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:54 AM	56.8	56.8	56.7	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:55 AM	56.7	56.7	56.7	66	45.5	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:56 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:57 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:58 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:59 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:00 AM	56.8	56.8	56.7	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:01 AM	56.7	56.7	56.7	64	44.7	0	---	0	0	---	56.7	55.6	55.6	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:02 AM	56.8	56.8	56.7	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:03 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:04 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:05 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:06 AM	56.8	56.9	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:07 AM	56.9	56.9	56.8	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:08 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:09 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:10 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:11 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:12 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:13 AM	57	57	56.9	64	44.9	0	---	0	0	---	57	55.9	55.9	30.126	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:14 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:15 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:16 AM	57	57.1	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:17 AM	57.1	57.1	57	63	44.6	0	---	0	0	---

Meteorological Data
Equity IRM

9/24/2012	7:35 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.145	0	0	0.005	0	52.8	63	40.5	51.8	11.75	0.0774	22	1	95.7	1
9/24/2012	7:36 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.144	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	23	1	100	1
9/24/2012	7:37 AM	57.2	57.2	57.1	64	45.1	0	---	0	0	---	57.2	56.1	56.1	30.145	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	24	1	100	1
9/24/2012	7:38 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.15	0	0	0.005	0	53.1	63	40.8	52.1	11.75	0.0773	23	1	100	1
9/24/2012	7:39 AM	57.3	57.3	57.2	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.151	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	24	1	100	1
9/24/2012	7:40 AM	57.3	57.3	57.3	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.148	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	23	1	100	1
9/24/2012	7:41 AM	57.4	57.4	57.3	64	45.3	0	---	0	0	---	57.4	56.3	56.3	30.147	0	0	0.005	0	53.4	63	41.1	52.4	11.75	0.0773	24	1	100	1
9/24/2012	7:42 AM	57.4	57.4	57.4	63	44.9	0	---	0	0	---	57.4	56.3	56.3	30.146	0	0	0.005	0	53.6	63	41.3	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:43 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.146	0	0	0.005	0	53.7	63	41.4	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:44 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.148	0	0	0.005	0	53.9	63	41.6	52.8	11.75	0.0772	24	1	100	1
9/24/2012	7:45 AM	57.6	57.6	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.15	0	0	0.005	0	54	63	41.7	52.9	11.75	0.0772	23	1	100	1
9/24/2012	7:46 AM	57.7	57.7	57.6	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.148	0	0	0.005	0	54.2	62	41.5	53.1	11.55	0.0771	24	1	100	1
9/24/2012	7:47 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.15	0	0	0.005	0	54.3	62	41.6	53.2	11.55	0.0771	23	1	100	1
9/24/2012	7:48 AM	57.8	57.8	57.7	63	45.3	0	---	0	0	---	57.8	56.7	56.7	30.15	0	0	0.005	0	54.5	63	42.2	53.4	11.75	0.0771	23	1	100	1
9/24/2012	7:49 AM	57.8	57.8	57.8	63	45.3	0	---	0	0	---	57.8	56.7	56.7	30.15	0	0	0.005	0	54.6	63	42.3	53.5	11.75	0.0771	24	1	100	1
9/24/2012	7:50 AM	57.9	57.9	57.9	63	45.4	0	---	0	0	---	57.9	56.8	56.8	30.148	0	0	0.005	0	54.8	63	42.4	53.7	11.75	0.077	23	1	100	1
9/24/2012	7:51 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.149	0	0	0.005	0	55.1	63	42.7	54	11.75	0.077	24	1	100	1
9/24/2012	7:52 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.149	0	0	0.005	0	55.2	63	42.8	54.1	11.75	0.077	23	1	100	1
9/24/2012	7:53 AM	58	58	57.9	61	44.6	0	---	0	0	---	58	56.8	56.8	30.15	0	0	0.005	0	55.4	62	42.6	54.2	11.54	0.0769	24	1	100	1
9/24/2012	7:54 AM	58	58	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.153	0	0	0.005	0	55.5	62	42.7	54.3	11.54	0.0769	23	1	100	1
9/24/2012	7:55 AM	58	58	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.153	0	0	0.005	0	55.7	62	42.9	54.5	11.54	0.0769	23	1	100	1
9/24/2012	7:56 AM	58.1	58.1	58	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.15	0	0	0.005	0	55.8	62	43	54.6	11.53	0.0769	24	1	100	1
9/24/2012	7:57 AM	58.1	58.1	58.1	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.151	0	0	0.005	0	56	62	43.2	54.8	11.53	0.0768	23	1	100	1
9/24/2012	7:58 AM	58.1	58.1	58.1	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.153	0	0	0.005	0	56.3	62	43.4	55.1	11.52	0.0768	23	1	100	1
9/24/2012	7:59 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.152	0	0	0.005	0	56.4	62	43.5	55.2	11.52	0.0768	23	1	100	1
9/24/2012	8:00 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.152	0	0	0.005	0	56.5	62	43.6	55.3	11.52	0.0767	22	1	95.7	1
9/24/2012	8:01 AM	58.3	58.3	58.2	61	44.9	0	---	0	0	---	58.3	57.1	57.1	30.15	0	0	0.005	0	57	61	43.7	55.8	11.25	0.0767	24	1	100	1
9/24/2012	8:02 AM	58.3	58.3	58.3	61	44.9	0	---	0	0	---	58.3	57.1	57.1	30.149	0	0	0.005	0	57.6	61	44.2	56.4	11.25	0.0766	23	1	100	1
9/24/2012	8:03 AM	58.4	58.4	58.4	61	45	0	---	0	0	---	58.4	57.2	57.2	30.147	0	0	0.005	0	58.1	61	44.7	56.9	11.25	0.0765	24	1	100	1
9/24/2012	8:04 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.149	0	0	0.005	0	58.7	60	44.8	57.4	11.12	0.0764	23	1	100	1
9/24/2012	8:05 AM	58.5	58.5	58.5	61	45.1	0	---	0	0	---	58.5	57.3	57.3	30.147	0	0	0.005	0	59.3	60	45.4	58	11.14	0.0763	23	1	100	1
9/24/2012	8:06 AM	58.6	58.6	58.6	61	45.2	0	---	0	0	---	58.6	57.4	57.4	30.149	0	0	0.004	0	59.9	59	45.5	58.5	10.95	0.0762	24	1	100	1
9/24/2012	8:07 AM	58.7	58.7	58.6	61	45.3	0	---	0	0	---	58.7	57.5	57.5	30.146	0	0	0.004	0	60.5	59	46.1	59.2	10.95	0.0761	23	1	100	1
9/24/2012	8:08 AM	58.8	58.8	58.7	61	45.4	0	---	0	0	---	58.8	57.6	57.6	30.146	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.076	24	1	100	1
9/24/2012	8:09 AM	59	59	58.8	61	45.6	0	---	0	0	---	59	57.8	57.8	30.145	0	0	0.004	0	61.6	58	46.7	60.3	10.75	0.0759	22	1	95.7	1
9/24/2012	8:10 AM	59.1	59.1	59	61	45.7	0	---	0	0	---	59.1	57.9	57.9	30.149	0	0	0.004	0	62.2	58	47.2	60.9	10.75	0.0758	24	1	100	1
9/24/2012	8:11 AM	59.2	59.2	59.1	60	45.3	0	---	0	0	---	59.2	57.9	57.9	30.146	0	0	0.004	0	62.7	58	47.7	61.5	10.75	0.0757	23	1	100	1
9/24/2012	8:12 AM	59.3	59.3	59.2	60	45.4	0	---	0	0	---	59.3	58	58	30.144	0	0	0.004	0	63.3	57	47.8	62.1	10.62	0.0756	23	1	100	1
9/24/2012	8:13 AM	59.4	59.4	59.3	60	45.5	0	---	0	0	---	59.4	58.1	58.1	30.148	0	0	0.004	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/24/2012	8:14 AM	59.5	59.5	59.4	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.147	0	0	0.004	0	64.3	56	48.3	63.1	10.45	0.0755	23	1	100	1
9/24/2012	8:15 AM	59.5	59.5	59.5	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.148	0	0	0.004	0	64.9	56	48.8	63.8	10.45	0.0754	23	1	100	1
9/24/2012	8:16 AM	59.6	59.6	59.5	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.147	0	0	0.004	0	65.4	56	49.3	64.3	10.44	0.0753	22	1	95.7	1
9/24/2012	8:17 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.146	0	0	0.004	0	65.9	56	49.8	64.9	10.43	0.0752	23	1	100	1
9/24/2012	8:18 AM	59.7	59.7	59.6	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.146	0	0	0.004	0	66.4	55	49.7	65.4	10.22	0.0751	23	1	100	1
9/24/2012	8:19 AM	59.7	59.8	59.7	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.146	0	0	0.004	0	66.9	55	50.2	66	10.21	0.075	22	1	95.7	1
9/24/2012	8:20 AM	59.9	59.9	59.8	59	45.5	0	---	0	0	---	59.9	58.5	58.5	30.146	0	0	0.004	0	67.2	55	50.5	66.3	10.21	0.075	23	1	100	1
9/24/2012	8:21 AM	59.9	59.9	59.9	59	45.5	0	---	0	0	---	59.9	58.5	58.5	30.149	0	0	0.004	0	67.7	54	50.5	66.8	10.04	0.0749	23	1	100	1
9/24/2012	8:22 AM	59.9	59.9	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.149	0	0	0.004	0	68.2	54	50.9	67.3	10.02	0.0748	23	1	100	1
9/24/2012	8:23 AM	59.9	59.9	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.15	0	0	0.004	0	68.5	53	50.7	67.4	9.88	0.0748	21	1	91.3	1
9/24/2012	8:24 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.149	0	0	0.004	0	68.9	53	51.1	67.8	9.87	0.0747	23	1	100	1
9/24/2012	8:25 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.149	0	0	0.004	0	69.2	53	51.3	68	9.87	0.0747	23	1	100	1
9/24/2012	8:26 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.15	0	0	0.004	0	69.6	53	51.7	68.3	9.86	0.0746	23	1	100	1
9/24/2012	8:27 AM	59.6	59.7	59.6	58	44.8	0	---	0	0	---	59.6	58.2	58.2	30.149	0	0	0.004	0	69.7	53	51.8	68.3	9.86	0.0746	22	1	95.7	1
9/24/2012	8:28 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.151	0	0	0.004	0	69.9	52	51.5	68.4	9.65	0.0746	22	1	95.7	1
9/24/2012	8:29 AM	59.6	59.6	59.6	58	44.8	0	---	0	0	---	59.6	58.2	58.2	30.149	0	0	0.004	0	69.9	52	51.5	68.4	9.65	0.0746	22	1	95.7	1
9/24/2012	8:30 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.15	0	0	0.004	0	70.1	52	51.7	68.6	9.65	0.0745	24	1	100	1
9/24/2012	8:31 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.151	0	0	0.004	0	70.1	52	51.7	68.6	9.65	0.0745	22	1	95.7	1
9/24/2012	8:32 AM	59.7	59.7	59.6	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.149	0	0	0.004	0	70.2	52	51.7	68.7	9.65	0.0745	24	1	100	1
9/24/2012	8:33 AM	59.8	59.8	59.7	59	45.4	0	---	0	0	---	59.8	58.4	58.4	30.151	0	0	0.004	0	70.4	52	51.9	69	9.64	0.0745	23	1	100	1
9/24/2012	8:34 AM	59.9	59.9	59.8	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.152	0	0	0.004	0	70.6	51	51.6	69.2	9.44	0.0745	24	1	100	1
9/24/2012	8:35 AM	60	60	59.9	58	45.2	0	---	0	0	---	60	58.6	58.6	30.155	0	0	0.003	0	70.6	51	51.6	69.2	9.44	0.0745	23	1	100	1
9/24/2012	8:36 AM	60.1	60.1	60	58	45.3	0	---	0	0	---	60.1	58.7	58.7	30.155	0	0	0.003	0	70.7	51	51.7	69.3	9.44	0.0744	23	1	100	1
9/24/2012	8:37 AM	60.2	60.2	60.1	58	45.4	0	---	0	0	---	60.2	58.8	58.8	30.155	0	0	0.003	0	70.9	51	51.9	69.6	9.43	0.0744	24	1	100	1
9/24/2012	8:38 AM	60.3	60.3	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.155	0	0	0.003	0	71.2	51	52.1	70	9.43	0.0744	23	1	100	1
9/24/2012	8:39 AM	60.4	60.4	60.3	56	44.6	0	---	0	0	---	60.4	58.9	58.9	30.156	0	0	0.003	0	71.4	50	51.8	70.2	9.25	0.0743	24	1	100	1
9/24/2012	8:40 AM	60.3	60.4	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.155	0	0	0.003	0	71.6	50	52	70.5	9.25	0.0743	22	1	95.7	1
9/24/2012	8:41 AM	60.4	60.4	60.3	56	44.6	0	---	0	0	---	60.4	58.9	58.9	30.155	0	0	0.003	0	71.8	50	52.2	70.8	9.25	0.0743	23	1	100	1
9/24/2012	8:42 AM	60.4	60.4	60.3	57	45.1	0	---	0	0	---	60.4	58.9	58.9	30.153	0	0	0.003	0	72.1	50	52.4	71.2	9.25	0.0742	24	1	100	1
9/24/2012	8:43 AM	60.4	60.4	60.4	57	45.1	0	---	0	0	---	60.4	58.9	58.9	30.151	0	0	0.003	0	72.3	50	52.6	71.5	9.25	0.0742	23	1	100	1
9/24/2012	8:44 AM	60.5	60.5	60.5	56	44.7	0	---	0	0	---	60.5	59	59	30.153	0	0	0.003	0	72.4	49	52.2	71.6	9.05	0.0742	24	1	100	1
9/24/2012	8:45 AM	60.6	60.6	60.5	56	44.8	0	---	0	0	---	60.6	59.1	59.1	30.152	0	0	0.003	0	72.8	49	52.5	72.1	9.05	0.0741	22	1	95.7	1
9/24/2012	8:46 AM	60.6	60.6	60.6	56	44.8	0	---	0	0	---	60.6	59.1	59.1	30.153	0	0	0.003	0	73	49	52.7	72.4	9.05	0.0741	24	1	100	1
9/24/2012	8:47 AM	60.7	60.7	60.6	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.153	0	0	0.003	0	73.3	49	53	72.8	9.05	0.074	23	1	100	1
9/24/2012	8:48 AM	60.8	60.8	60.7	56	45	0	---	0	0	---	60.8	59.3	59.3	30.153	0	0	0.003	0	73.5	48	52.6	73	8.92	0.074	23	1	100	1
9/24/2012	8:49 AM	60.9	60.9	60.8	57	45.6	0	---	0	0	---	60.9	59.5	59.5	30.155	0	0	0.003	0	73.8	48	52.9	73.3	8.93	0.074	24	1	100	1
9/24/2012	8:50 AM	61	61	60.9	56	45.2	0	---	0	0	---	61	59.5	59.5	30.154	0	0	0.003	0	74	48	53.1	73.6	8.93	0.0739	23	1	100	1
9/24/2012	8:51 AM	61.1	61.1	61	56	45.3	0	---	0	0	---	61.1	59.6	59.6	30.155	0	0	0.003	0	74.3	47	52.8	73.9	8.75	0.0739	24	1	100	1
9/24/2012	8:52 AM	61.2	61.2	61.2	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.154	0	0	0.003	0	74.5	47	52.9	74.2	8.75	0.0739	23	1	100	1
9/24/2012	8:53 AM	61.3	61.3	61.2	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.154	0	0	0.003	0	74.9	47	53.3	74.7	8.75	0.0738	23	1	100	1
9/24/2012	8:54 AM	61.3	61.3	61.3	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.155	0	0	0.003	0	75	47	53.4	74.9	8.75	0.0738	24	1	100	1
9/24/2012	8:55 AM	61.3	61.3	61.3	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.156	0	0	0.003	0	75.4	47	53.8	75.2	8.74	0.0737	23	1	100	1
9/24/2012	8:56 AM	61.4	61.4	61.3	56	45.6	0	---	0	0	---	61.4	59.9	59.9	30.157	0	0	0.002	0	75.7	47	54	75.5	8.74	0.0737	24	1	100	1
9/24/2012	8:57 AM	61.4	61.4	61.4	55	45.1	0	---	0	0	---	61.4	59.8	59.8	30.158	0	0	0.002	0	75.9	47	54.2	75.7	8.73	0.0736	23	1	100	1
9/24/2012	8:58 AM	61.3	61.4	61.3	55	45	0	---	0	0	---	61.3	59.7	59.7	30.158	0	0	0.003	0	76.1	46	53.8	75.8	8.53	0.0736	23	1	100	1
9/24/2012	8:59 AM	61.3	61.3	61.3	54	44.5	0	---	0	0	---	61.3	59.6	59.6	30.159	0	0	0.003	0	76.3	46	54	75.9	8.52	0.0736	23	1	100	1
9/24/2012	9:00 AM	61.2	61.3	61.2	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.159	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:01 AM	61	61.2	61	55	44.7	0	---	0	0	---	61	59.4	59.4	30.158	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:02 AM	60.8	61	60.8	54	44	0	---	0	0	---	60.8	59.1	59.1	30.159	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	23	1	100	1
9/24/2012	9:03 AM	60.7	60.8	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.158	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	24	1	100	1
9/24/2012	9:04 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.156	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	22	1	95.7	1
9/24/2012	9:05 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:06 AM	60.8	60.8	60.7	56	45	0	---	0	0	---	60.8	59.3	59.3	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	24	1	100	1
9/24/2012	9:07 AM	60.9	60.9	60.8	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.158	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:08 AM	60.9	60.9	60.9	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.157	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:09 AM	61	61.1	60.9	55	44.7	0	---	0	0	---	61	59.4	59.4	30.16	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:10 AM	61.2	61.2	61.1	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.161	0	0	0.003	0	76.8	45	53.8	76.3	8.41	0.0735	22	1	95.7	1
9/24/2012	9:11 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.158	0	0	0.003	0	77	45	54	76.5	8.41	0.0735	24	1	100	1
9/24/2012	9:12 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.161	0	0	0.003	0	77.2	45	54.2	76.7	8.41	0.0735	22	1	95.7	1
9/24/2012	9:13 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.16	0	0	0.003	0	77.2	45	54.2	76.7	8.41	0.0735	24	1	100	1
9/24/2012	9:14 AM	61.3	61.3	61.2	55	45	0	---	0	0	---	61.3	59.7	59.7	30.161	0	0	0.003	0	77.3	45	54.3	76.8	8.4	0.0735	22	1	95.7	1
9/24/2012	9:15 AM	61.3	61.3	61.3	53	44	0	---	0	0	---	61.3	59.6	59.6	30.16	0	0	0.003	0	77.5	44	53.9	77	8.2	0.0734	23	1	100	1
9/24/2012	9:16 AM	61.3	61.3	61.3	54	44.5	0	---	0	0	---	61.3	59.6	59.6	30.162

Meteorological Data
Equity IRM

9/24/2012	10:35 AM	63.6	63.6	63.4	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:36 AM	63.7	63.7	63.6	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:37 AM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:38 AM	63.9	63.9	63.9	45	42.1	0	---	0	0	---	63.9	61.7	61.7	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:39 AM	63.7	63.9	63.7	42	40.2	0	---	0	0	---	63.7	61.2	61.2	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:40 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.164	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:41 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:42 AM	63.6	63.7	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.164	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	24	1	100	1
9/24/2012	10:43 AM	63.6	63.6	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:44 AM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:45 AM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.161	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	24	1	100	1
9/24/2012	10:46 AM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.16	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	10:47 AM	63.5	63.6	63.5	44	41.2	0	---	0	0	---	63.5	61.2	61.2	30.161	0	0	0.001	0	83.9	34	52.5	83	6.49	0.0726	24	1	100	1
9/24/2012	10:48 AM	63.4	63.5	63.4	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:49 AM	63.5	63.5	63.5	44	41.2	0	---	0	0	---	63.5	61.2	61.2	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:50 AM	63.4	63.5	63.4	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.161	0	0	0.001	0	84.1	34	52.7	83.2	6.49	0.0726	22	1	95.7	1
9/24/2012	10:51 AM	63.4	63.4	63.4	43	40.5	0	---	0	0	---	63.4	61	61	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:52 AM	63.5	63.5	63.4	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:53 AM	63.6	63.6	63.5	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:54 AM	63.7	63.7	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.162	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:55 AM	63.7	63.7	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.163	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	22	1	95.7	1
9/24/2012	10:56 AM	63.8	63.9	63.7	43	40.9	0	---	0	0	---	63.8	61.4	61.4	30.163	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	22	1	95.7	1
9/24/2012	10:57 AM	63.9	63.9	63.9	43	41	0	---	0	0	---	63.9	61.5	61.5	30.163	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	10:58 AM	63.9	63.9	63.9	45	42.1	0	---	0	0	---	63.9	61.7	61.7	30.16	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	22	1	95.7	1
9/24/2012	10:59 AM	64	64	63.9	43	41	0	---	0	0	---	64	61.6	61.6	30.161	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:00 AM	64	64.1	64	44	41.6	0	---	0	0	---	64	61.7	61.7	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:01 AM	64	64	64	43	41	0	---	0	0	---	64	61.6	61.6	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:02 AM	63.9	64	63.9	43	41	0	---	0	0	---	63.9	61.5	61.5	30.16	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:03 AM	63.8	63.9	63.8	43	40.9	0	---	0	0	---	63.8	61.4	61.4	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:04 AM	63.7	63.8	63.7	42	40.2	0	---	0	0	---	63.7	61.2	61.2	30.158	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	11:05 AM	63.7	63.8	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:06 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	24	1	100	1
9/24/2012	11:07 AM	63.7	63.7	63.6	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:08 AM	63.5	63.6	63.5	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.159	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:09 AM	63.4	63.5	63.4	46	42.2	0	---	0	0	---	63.4	61.2	61.2	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	24	1	100	1
9/24/2012	11:10 AM	63.3	63.4	63.3	46	42.2	0	---	0	0	---	63.3	61.1	61.1	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:11 AM	63.2	63.3	63.2	46	42.1	0	---	0	0	---	63.2	61	61	30.157	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:12 AM	63.2	63.2	63.2	47	42.6	0	---	0	0	---	63.2	61.1	61.1	30.156	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:13 AM	63.5	63.5	63.2	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.158	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	11:14 AM	63.8	63.8	63.5	45	42	0	---	0	0	---	63.8	61.6	61.6	30.158	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:15 AM	64	64	63.8	45	42.2	0	---	0	0	---	64	61.8	61.8	30.157	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	22	1	95.7	1
9/24/2012	11:16 AM	64.2	64.2	64	45	42.4	0	---	0	0	---	64.2	62	62	30.157	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:17 AM	64.3	64.3	64.2	44	41.9	0	---	0	0	---	64.3	62	62	30.155	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:18 AM	64.4	64.4	64.3	43	41.4	0	---	0	0	---	64.4	62	62	30.155	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:19 AM	64.4	64.4	64.4	44	42	0	---	0	0	---	64.4	62.1	62.1	30.154	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	22	1	95.7	1
9/24/2012	11:20 AM	64.3	64.4	64.3	44	41.9	0	---	0	0	---	64.3	62	62	30.154	0	0	0	0	84.1	32	51.1	82.8	6.27	0.0726	22	1	95.7	1
9/24/2012	11:21 AM	64.3	64.3	64.2	44	41.9	0	---	0	0	---	64.3	62	62	30.153	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:22 AM	64.4	64.4	64.3	44	42	0	---	0	0	---	64.4	62.1	62.1	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:23 AM	64.5	64.5	64.4	44	42.1	0	---	0	0	---	64.5	62.2	62.2	30.153	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:24 AM	64.6	64.6	64.5	44	42.2	0	---	0	0	---	64.6	62.3	62.3	30.155	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:25 AM	64.6	64.6	64.6	43	41.6	0	---	0	0	---	64.6	62.2	62.2	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:26 AM	64.6	64.6	64.6	44	42.2	0	---	0	0	---	64.6	62.3	62.3	30.152	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:27 AM	64.7	64.7	64.6	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:28 AM	64.8	64.8	64.7	43	41.8	0	---	0	0	---	64.8	62.4	62.4	30.153	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/24/2012	11:29 AM	65	65	64.9	41	40.7	0	---	0	0	---	65	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:30 AM	65.1	65.1	65	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:31 AM	65.1	65.1	65.1	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:32 AM	65	65	65	40	40.1	0	---	0	0	---	65	62.4	62.4	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:33 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/24/2012	11:34 AM	65	65.1	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.153	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:35 AM	65	65	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:36 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.154	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:37 AM	64.9	65	64.9	40	40	0	---	0	0	---	64.9	62.3	62.3	30.153	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	22	1	95.7	1
9/24/2012	11:38 AM	64.9	64.9	64.9	39	39.3	0	---	0	0	---	64.9	62.2	62.2	30.153	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	24	1	100	1
9/24/2012	11:39 AM	64.9	64.9	64.8	40	40	0	---	0	0	---	64.9	62.3	62.3	30.154	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	22	1	95.7	1
9/24/2012	11:40 AM	65	65	64.9	39	39.4	0	---	0	0	---	65	62.3	62.3	30.154	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	24	1	100	1
9/24/2012	11:41 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:42 AM	65.1	65.1	65	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:43 AM	65.1	65.2	65.1	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:44 AM	65.2	65.2	65.2	39	39.6	0	---	0	0	---	65.2	62.5	62.5	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:45 AM	65.2	65.2	65.2	37	38.3	0	---	0	0	---	65.2	62.3	62.3	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:46 AM	65.2	65.2	65.2	38	38.9	0	---	0	0	---	65.2	62.4	62.4	30.154	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:47 AM	65.3	65.3	65.2	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:48 AM	65.3	65.3	65.3	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.152	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:49 AM	65.4	65.4	65.4	39	39.8	0	---	0	0	---	65.4	62.7	62.7	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:50 AM	65.6	65.6	65.4	39	40	0	---	0	0	---	65.6	62.9	62.9	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:51 AM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.153	0	0	0	0	83.5	31	49.7	81.8	6.15	0.0728	23	1	100	1
9/24/2012	11:52 AM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.152	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:53 AM	65.6	65.6	65.6	39	40	0	---	0	0	---	65.6	62.9	62.9	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:54 AM	65.6	65.6	65.6	39	40	0	---	0	0	---	65.6	62.9	62.9	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:55 AM	65.6	65.6	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:56 AM	65.6	65.7	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.151	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:57 AM	65.6	65.6	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:58 AM	65.7	65.7	65.7	40	40.7	0	---	0	0	---	65.7	63.1	63.1	30.154	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:59 AM	65.8	65.8	65.7	39	40.1	0	---	0	0	---	65.8	63.1	63.1	30.157	0	0	0	0.001	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	12:00 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.156	0	0	0	0.001	83.5	31	49.7	81.8	6.15	0.0728	23	1	100	1
9/24/2012	12:01 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.157	0	0	0	0.001	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:02 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.155	0	0	0	0.001	83.3	32	50.4	81.7	6.28	0.0728	24	1	100	1
9/24/2012	12:03 PM	65.7	65.8	65.7	38	39.4	0	---	0	0	---	65.7	62.9	62.9	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:04 PM	65.7	65.7	65.7	39	40.1	0	---	0	0	---	65.7	63	63	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	24	1	100	1
9/24/2012	12:05 PM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.152	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:06 PM	65.5	65.6	65.5	39	39.9	0	---	0	0	---	65.5	62.8	62.8	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	24	1	100	1
9/24/2012	12:07 PM	65.3	65.4	65.3	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.152	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:08 PM	65.2	65.3	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:09 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.153	0	0	0	0	83.1	30	48.5	81.1	6.05	0.0728	24	1	100	1
9/24/2012	12:10 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:11 PM	65.2	65.2	65.2	41	40.9	0	---	0	0	---	65.2	62.7	62.7	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	24	1	100	1
9/24/2012	12:12 PM	65.3	65.3	65.2	41	41	0	---	0	0	---	65.3	62.8	62.8	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:13 PM	65.4	65.4	65.3	41	41.1	0	---	0	0	---	65.4	62.9	62.9	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:14 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	24	1	100	1
9/24/2012	12:15 PM	65.5	65.5	65.4	41	41.2	0	---	0	0	---	65.5	63	63	30.154	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0729	23	1	100	1
9/24/2012	12:16 PM	65.5	65.5	65.5	42	41.8	0	---	0	0	---	65.5	63.1	63.1	30.153	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0729	24	1	100	1
9/24/2012	12:17 PM	65.5	65.5	65.5	40	40.5	0	---	0	0	---	65.5	62.9	62.9	30.151	0	0	0	0	82.9	32	50	81.2	6.29

Meteorological Data
Equity IRM

9/24/2012	1:35 PM	66.3	66.5	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.126	0	0	0	0.001	81	32	48.4	79.2	6.33	0.0731	23	1	100	1
9/24/2012	1:36 PM	66.1	66.2	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	24	1	100	1
9/24/2012	1:37 PM	66	66.1	66	40	41	0	---	0	0	---	66	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	23	1	100	1
9/24/2012	1:38 PM	65.9	66	65.9	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.126	0	0	0	0.001	81	33	49.2	79.3	6.51	0.073	24	1	100	1
9/24/2012	1:39 PM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.124	0	0	0	0.001	81.2	30	46.8	79.2	6.05	0.0731	23	1	100	1
9/24/2012	1:40 PM	66	66	66	40	41	0	---	0	0	---	66	63.4	63.4	30.122	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	24	1	100	1
9/24/2012	1:41 PM	66.1	66.1	66	40	41.1	0	---	0	0	---	66.1	63.5	63.5	30.124	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	23	1	100	1
9/24/2012	1:42 PM	66.2	66.2	66.1	40	41.2	0	---	0	0	---	66.2	63.6	63.6	30.122	0	0	0	0.001	81.2	31	47.7	79.3	6.15	0.0731	23	1	100	1
9/24/2012	1:43 PM	66.5	66.5	66.3	40	41.4	0	---	0	0	---	66.5	64	64	30.123	0	0	0	0.001	81	30	46.6	79	6.05	0.0731	24	1	100	1
9/24/2012	1:44 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.124	0	0	0	0.001	80.8	30	46.5	78.8	6.05	0.0731	23	1	100	1
9/24/2012	1:45 PM	66.8	66.8	66.7	39	41	0	---	0	0	---	66.8	64.2	64.2	30.124	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	24	1	100	1
9/24/2012	1:46 PM	67	67	66.9	39	41.2	0	---	0	0	---	67	64.4	64.4	30.123	0	0	0	0.001	80.5	30	46.2	78.5	6.05	0.0732	23	1	100	1
9/24/2012	1:47 PM	67.1	67.1	67	39	41.3	0	---	0	0	---	67.1	64.5	64.5	30.124	0	0	0	0.001	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	1:48 PM	67.2	67.2	67.2	40	42	0	---	0	0	---	67.2	64.7	64.7	30.125	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	24	1	100	1
9/24/2012	1:49 PM	67.3	67.3	67.3	39	41.5	0	---	0	0	---	67.3	64.7	64.7	30.125	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:50 PM	67.4	67.4	67.3	37	40.2	0	---	0	0	---	67.4	64.6	64.6	30.124	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	24	1	100	1
9/24/2012	1:51 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.123	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:52 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.123	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	24	1	100	1
9/24/2012	1:53 PM	67.6	67.6	67.5	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.123	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	23	1	100	1
9/24/2012	1:54 PM	67.6	67.6	67.6	39	41.7	0	---	0	0	---	67.6	65	65	30.122	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:55 PM	67.7	67.7	67.6	39	41.8	0	---	0	0	---	67.7	65.1	65.1	30.119	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	24	1	100	1
9/24/2012	1:56 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.12	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	1:57 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.119	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	24	1	100	1
9/24/2012	1:58 PM	67.8	67.8	67.8	37	40.6	0	---	0	0	---	67.8	65	65	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	1:59 PM	67.7	67.8	67.7	38	41.2	0	---	0	0	---	67.7	65	65	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	22	1	95.7	1
9/24/2012	2:00 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:01 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:02 PM	67.7	67.8	67.7	38	41.2	0	---	0	0	---	67.7	65	65	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:03 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:04 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.117	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:05 PM	67.9	67.9	67.9	38	41.3	0	---	0	0	---	67.9	65.3	65.3	30.116	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:06 PM	68	68	67.9	38	41.4	0	---	0	0	---	68	65.4	65.4	30.116	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	22	1	95.7	1
9/24/2012	2:07 PM	68.2	68.2	68	38	41.6	0	---	0	0	---	68.2	65.6	65.6	30.117	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	24	1	100	1
9/24/2012	2:08 PM	68.2	68.2	68.2	38	41.6	0	---	0	0	---	68.2	65.6	65.6	30.115	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	22	1	95.7	1
9/24/2012	2:09 PM	68.3	68.3	68.2	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.117	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	23	1	100	1
9/24/2012	2:10 PM	68.2	68.3	68.2	39	42.3	0	---	0	0	---	68.2	65.7	65.7	30.117	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	2:11 PM	68.1	68.2	68.1	39	42.2	0	---	0	0	---	68.1	65.6	65.6	30.118	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0732	22	1	95.7	1
9/24/2012	2:12 PM	68	68.1	68	38	41.4	0	---	0	0	---	68	65.4	65.4	30.116	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0731	24	1	100	1
9/24/2012	2:13 PM	67.9	67.9	67.9	37	40.7	0	---	0	0	---	67.9	65.1	65.1	30.117	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	23	1	100	1
9/24/2012	2:14 PM	67.7	67.8	67.7	37	40.5	0	---	0	0	---	67.7	64.9	64.9	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	24	1	100	1
9/24/2012	2:15 PM	67.6	67.7	67.6	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:16 PM	67.6	67.6	67.6	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.119	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:17 PM	67.5	67.6	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.118	0	0	0	0.002	79.9	30	45.7	77.9	6.05	0.0733	24	1	100	1
9/24/2012	2:18 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.7	30	45.5	77.8	6.05	0.0733	23	1	100	1
9/24/2012	2:19 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.119	0	0	0	0.002	79.7	30	45.5	77.8	6.05	0.0733	24	1	100	1
9/24/2012	2:20 PM	67.5	67.5	67.4	37	40.3	0	---	0	0	---	67.5	64.7	64.7	30.117	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:21 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	24	1	100	1
9/24/2012	2:22 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.115	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:23 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.117	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:24 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.117	0	0	0	0.002	79.3	30	45.2	77.4	6.05	0.0734	24	1	100	1
9/24/2012	2:25 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.116	0	0	0	0.002	79.3	31	46	77.6	6.16	0.0733	23	1	100	1
9/24/2012	2:26 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.114	0	0	0	0.002	79.3	30	45.2	77.4	6.05	0.0734	23	1	100	1
9/24/2012	2:27 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.2	31	45.9	77.5	6.17	0.0734	23	1	100	1
9/24/2012	2:28 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.115	0	0	0	0.002	79.2	31	45.9	77.5	6.17	0.0734	23	1	100	1
9/24/2012	2:29 PM	67.3	67.4	67.3	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.114	0	0	0	0.002	79.2	30	45.1	77.4	6.05	0.0734	24	1	100	1
9/24/2012	2:30 PM	67.2	67.3	67.2	39	41.4	0	---	0	0	---	67.2	64.6	64.6	30.115	0	0	0	0.002	79	30	44.9	77.2	6.05	0.0734	22	1	95.7	1
9/24/2012	2:31 PM	67.3	67.3	67.3	38	40.8	0	---	0	0	---	67.3	64.6	64.6	30.116	0	0	0	0.002	78.8	31	45.6	77.1	6.17	0.0734	24	1	100	1
9/24/2012	2:32 PM	67.4	67.4	67.3	40	42.2	0	---	0	0	---	67.4	64.9	64.9	30.114	0	0	0	0.002	78.8	31	45.6	77.1	6.17	0.0734	23	1	100	1
9/24/2012	2:33 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.115	0	0	0	0.002	78.6	30	44.6	76.9	6.05	0.0735	24	1	100	1
9/24/2012	2:34 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.117	0	0	0	0.002	78.6	31	45.4	77	6.18	0.0735	23	1	100	1
9/24/2012	2:35 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.113	0	0	0	0.002	78.4	30	44.4	76.7	6.05	0.0735	23	1	100	1
9/24/2012	2:36 PM	67.6	67.6	67.5	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.112	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	24	1	100	1
9/24/2012	2:37 PM	67.7	67.7	67.6	38	41.2	0	---	0	0	---	67.7	65	65	30.114	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	23	1	100	1
9/24/2012	2:38 PM	67.9	67.9	67.7	37	40.7	0	---	0	0	---	67.9	65.1	65.1	30.115	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	24	1	100	1
9/24/2012	2:39 PM	68	68	67.9	37	40.7	0	---	0	0	---	68	65.2	65.2	30.113	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	23	1	100	1
9/24/2012	2:40 PM	68.2	68.2	68.1	36	40.2	0	---	0	0	---	68.2	65.3	65.3	30.113	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0735	23	1	100	1
9/24/2012	2:41 PM	68.2	68.2	68.2	36	40.2	0	---	0	0	---	68.2	65.3	65.3	30.114	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0735	24	1	100	1
9/24/2012	2:42 PM	68.1	68.2	68.1	35	39.4	0	---	0	0	---	68.1	65.1	65.1	30.117	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	23	1	100	1
9/24/2012	2:43 PM	68	68.1	68	36	40	0	---	0	0	---	68	65.1	65.1	30.115	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	24	1	100	1
9/24/2012	2:44 PM	67.7	67.9	67.7	36	39.8	0	---	0	0	---	67.7	64.8	64.8	30.115	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	23	1	100	1
9/24/2012	2:45 PM	67.4	67.7	67.4	35	38.8	0	---	0	0	---	67.4	64.3	64.3	30.114	0	0	0	0.002	77.9	30	44	76.3	6.05	0.0736	24	1	100	1
9/24/2012	2:46 PM	67.2	67.4	67.2	35	38.6	0	---	0	0	---	67.2	64.1	64.1	30.114	0	0	0	0.002	77.9	31	44.8	76.4	6.19	0.0736	23	1	100	1
9/24/2012	2:47 PM	67	67.2	67	35	38.4	0	---	0	0	---	67	63.9	63.9	30.114	0	0	0	0.001	77.7	30	43.8	76.2	6.05	0.0736	22	1	95.7	1
9/24/2012	2:48 PM	66.9	67	66.9	36	39.1	0	---	0	0	---	66.9	63.9	63.9	30.111	0	0	0	0.001	77.7	30	43.8	76.2	6.05	0.0736	24	1	100	1
9/24/2012	2:49 PM	66.8	66.9	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.111	0	0	0	0.001	77.5	30	43.6	76.1	6.05	0.0736	22	1	95.7	1
9/24/2012	2:50 PM	66.8	66.8	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.109	0	0	0	0.001	77.3	30	43.4	76	6.05	0.0737	24	1	100	1
9/24/2012	2:51 PM	66.8	66.8	66.8	39	41	0	---	0	0	---	66.8	64.2	64.2	30.111	0	0	0	0.001	77.2	31	44.2	76	6.21	0.0737	22	1	95.7	1
9/24/2012	2:52 PM	66.8	66.8	66.8	38	40.4	0	---	0	0	---	66.8	64	64	30.11	0	0	0	0.001	77	31	44	75.8	6.21	0.0737	22	1	95.7	1
9/24/2012	2:53 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.109	0	0	0	0.001	76.8	31	43.9	75.6	6.21	0.0737	23	1	100	1
9/24/2012	2:54 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.111	0	0	0	0.001	76.6	31	43.7	75.3	6.22	0.0738	22	1	95.7	1
9/24/2012	2:55 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.11	0	0	0	0.001	76.4	31	43.5	75.1	6.22	0.0738	24	1	100	1
9/24/2012	2:56 PM	66.9	66.9	66.8	37	39.8	0	---	0	0	---	66.9	64	64	30.111	0	0	0	0.001	76.3	31	43.4	74.9	6.22	0.0738	22	1	95.7	1
9/24/2012	2:57 PM	66.8	66.9	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.109	0	0	0	0.001	76.1	31	43.3	74.7	6.23	0.0738	24	1	100	1
9/24/2012	2:58 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.11	0	0	0	0.001	75.9	31	43.1	74.4	6.23	0.0739	22	1	95.7	1
9/24/2012	2:59 PM	66.9	66.9	66.8	36	39.1	0	---	0	0	---	66.9	63.9	63.9	30.107	0	0	0	0.001	75.9	31	43.1	74.4	6.23	0.0739	22	1	95.7	1
9/24/2012	3:00 PM	67	67	66.9	36	39.1	0	---	0	0	---	67	64	64	30.107	0	0	0	0.001	75.7	31	42.9	74.2	6.24	0.0739	23	1	100	1
9/24/2012	3:01 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.107	0	0	0	0.001	75.7	31	42.9	74.2	6.24	0.0739	23	1	100	1
9/24/2012	3:02 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.106	0	0	0	0.001	75.6	31	42.8	74.1	6.24	0.0739	24	1	100	1
9/24/2012	3:03 PM	67.2	67.2	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.105	0	0	0	0.002	75.6	31	42.8	74.1	6.24	0.0739	23	1	100	1
9/24/2012	3:04 PM	67.3	67.3	67.2	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.105	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:05 PM	67.2	67.3	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.104	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:06 PM	67.1	67.2	67.1	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.104	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:07 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.101	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:08 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:09 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	24	1	100	1
9/24/2012	3:10 PM	67.1	67.1	67.1	35	38.5	0	---	0	0	---	67.1	64	64	30.1	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:11 PM	67.3	67.3	67.2	35	38.7	0	---	0	0	---	67.3	64.2	64.2	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	23	1	100	1
9/24/2012	3:12 PM	67.4	67.4	67.3	35	38.8	0	---	0	0	---	67.4	64.3	64.3	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	24	1	100	1
9/24/2012	3:13 PM	67.5	67.5	67.5	35	38.9	0	---	0	0	---	67.5	64.4	64.4	30.1	0	0	0	0.002	74.9	31	42.2	73.3	6.25	0.074	23	1	100	1
9/24/2012	3:14 PM	67.5	67.5	67.5	35	38.9	0	---	0	0	---	67.5	64.4	64.4	30.1	0	0	0	0.002	74.9	32	43	73.4	6.45	0.074	24	1	100	1
9/24/2012	3:15 PM	67.6	67.6	67.6	35	39	0	---	0	0	---	67.6	64.6	64.6	30.098	0	0	0	0.002	74.9	31	42.2	73.3	6.25	0.074	23	1	100	1
9/24/2012	3:16 PM	67.6	67.6	67.6	35	39	0	---	0	0	---	67.6	64.6	64.6	30.098	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:17 PM

Meteorological Data
Equity IRM

9/24/2012	4:35 PM	67.3	67.3	67.2	37	40.1	3	WSW	0.05	5	NNE	67.3	64.5	64.5	30.095	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	22	1	95.7	1
9/24/2012	4:36 PM	67.3	67.3	67.3	38	40.8	2	WSW	0.03	4	WSW	67.3	64.6	64.6	30.097	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	23	1	100	1
9/24/2012	4:37 PM	67.3	67.3	67.3	38	40.8	2	W	0.03	7	ENE	67.3	64.6	64.6	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	23	1	100	1
9/24/2012	4:38 PM	67.3	67.3	67.3	36	39.4	3	N	0.05	5	N	67.3	64.4	64.4	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:39 PM	67.3	67.3	67.3	38	40.8	3	NE	0.05	7	NW	67.3	64.6	64.6	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:40 PM	67.4	67.4	67.3	36	39.5	5	N	0.08	10	NNW	67.4	64.5	64.5	30.098	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:41 PM	67.5	67.5	67.4	37	40.3	2	N	0.03	4	N	67.5	64.7	64.7	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:42 PM	67.6	67.6	67.5	37	40.4	2	NNW	0.03	4	NNW	67.6	64.8	64.8	30.095	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	22	1	95.7	1
9/24/2012	4:43 PM	67.7	67.7	67.6	36	39.8	5	WNW	0.08	7	WNW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	24	1	100	1
9/24/2012	4:44 PM	67.7	67.7	67.7	36	39.8	4	WNW	0.07	7	NW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:45 PM	67.7	67.7	67.7	36	39.8	4	NNW	0.07	6	NW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:46 PM	67.8	67.8	67.7	35	39.1	3	NNW	0.05	7	NNW	67.8	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	24	1	100	1
9/24/2012	4:47 PM	67.9	67.9	67.9	36	39.9	2	NNW	0.03	4	N	67.9	65	65	30.093	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:48 PM	67.8	67.9	67.8	35	39.1	3	ENE	0.05	7	N	67.8	64.8	64.8	30.093	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	24	1	100	1
9/24/2012	4:49 PM	67.7	67.8	67.7	36	39.8	5	NW	0.08	7	NNW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	23	1	100	1
9/24/2012	4:50 PM	67.6	67.7	67.6	35	39	3	NW	0.05	6	NNE	67.6	64.6	64.6	30.096	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	23	1	100	1
9/24/2012	4:51 PM	67.5	67.6	67.5	36	39.6	1	WNW	0.02	4	NNE	67.5	64.6	64.6	30.096	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	24	1	100	1
9/24/2012	4:52 PM	67.3	67.4	67.3	37	40.1	2	WNW	0.03	3	WNW	67.3	64.5	64.5	30.096	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	23	1	100	1
9/24/2012	4:53 PM	67.3	67.4	67.3	38	40.8	1	WNW	0.02	7	NW	67.3	64.6	64.6	30.094	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	24	1	100	1
9/24/2012	4:54 PM	67.2	67.3	67.2	38	40.7	4	N	0.07	6	W	67.2	64.5	64.5	30.094	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	23	1	100	1
9/24/2012	4:55 PM	67.1	67.2	67.1	37	39.9	3	N	0.05	5	N	67.1	64.3	64.3	30.095	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	24	1	100	1
9/24/2012	4:56 PM	67	67.1	67	37	39.9	2	W	0.03	4	NNW	67	64.1	64.1	30.094	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	23	1	100	1
9/24/2012	4:57 PM	66.9	67	66.9	37	39.8	3	WNW	0.05	5	WNW	66.9	64	64	30.094	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	23	1	100	1
9/24/2012	4:58 PM	66.8	66.9	66.8	37	39.7	3	WNW	0.05	6	W	66.8	63.9	63.9	30.093	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	24	1	100	1
9/24/2012	4:59 PM	66.8	66.8	66.8	37	39.7	3	NW	0.05	6	W	66.8	63.9	63.9	30.095	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	23	1	100	1
9/24/2012	5:00 PM	66.7	66.8	66.7	37	39.6	4	W	0.07	7	WSW	66.7	63.8	63.8	30.097	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	23	1	100	1
9/24/2012	5:01 PM	66.8	66.8	66.8	37	39.7	3	NNW	0.05	8	NNW	66.8	63.9	63.9	30.096	0	0	0	0.001	71.4	36	43	68.8	7.19	0.0745	23	1	100	1
9/24/2012	5:02 PM	66.9	66.9	66.8	37	39.8	2	NNW	0.03	4	NNW	66.9	64	64	30.097	0	0	0	0.001	71.4	36	43	68.8	7.19	0.0745	23	1	100	1
9/24/2012	5:03 PM	67	67	66.9	36	39.1	4	WSW	0.07	6	SW	67	64	64	30.096	0	0	0	0.001	71.2	36	42.9	68.6	7.2	0.0745	24	1	100	1
9/24/2012	5:04 PM	67	67	67	37	39.9	2	SSW	0.03	3	SSW	67	64.1	64.1	30.098	0	0	0	0.001	71.2	36	42.9	68.6	7.2	0.0745	23	1	100	1
9/24/2012	5:05 PM	67	67	67	36	39.1	1	SSW	0.02	2	SSW	67	64	64	30.098	0	0	0	0.001	71.1	36	42.8	68.4	7.21	0.0745	24	1	100	1
9/24/2012	5:06 PM	67.1	67.1	67	36	39.2	1	WNW	0.02	3	WNW	67.1	64.1	64.1	30.097	0	0	0	0.001	71.1	36	42.8	68.4	7.21	0.0745	23	1	100	1
9/24/2012	5:07 PM	67.3	67.3	67.1	36	39.4	2	WNW	0.03	4	WNW	67.3	64.4	64.4	30.099	0	0	0	0.002	71.1	36	42.8	68.4	7.21	0.0745	23	1	100	1
9/24/2012	5:08 PM	67.4	67.4	67.3	36	39.5	1	WNW	0.02	3	ESE	67.4	64.5	64.5	30.097	0	0	0	0.002	70.9	36	42.6	68.2	7.21	0.0746	24	1	100	1
9/24/2012	5:09 PM	67.7	67.7	67.5	36	39.8	3	N	0.05	5	N	67.7	64.8	64.8	30.098	0	0	0	0.002	70.9	36	42.6	68.2	7.21	0.0746	23	1	100	1
9/24/2012	5:10 PM	67.9	67.9	67.7	35	39.2	2	N	0.03	3	N	67.9	64.9	64.9	30.099	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	24	1	100	1
9/24/2012	5:11 PM	67.9	67.9	67.9	35	39.2	2	ENE	0.03	3	ESE	67.9	64.9	64.9	30.098	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	23	1	100	1
9/24/2012	5:12 PM	67.9	67.9	67.9	35	39.2	3	NNE	0.05	4	NNE	67.9	64.9	64.9	30.098	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	24	1	100	1
9/24/2012	5:13 PM	67.9	67.9	67.9	35	39.2	4	NNE	0.07	7	N	67.9	64.9	64.9	30.098	0	0	0	0.002	70.6	36	42.3	67.8	7.23	0.0746	23	1	100	1
9/24/2012	5:14 PM	67.9	67.9	67.9	35	39.2	5	N	0.08	11	NNE	67.9	64.9	64.9	30.101	0	0	0	0.002	70.6	36	42.3	67.8	7.23	0.0746	23	1	100	1
9/24/2012	5:15 PM	67.9	67.9	67.9	35	39.2	4	NE	0.07	7	ENE	67.9	64.9	64.9	30.1	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	24	1	100	1
9/24/2012	5:16 PM	67.9	67.9	67.9	36	39.9	4	N	0.07	7	NNW	67.9	65	65	30.099	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	23	1	100	1
9/24/2012	5:17 PM	67.9	67.9	67.9	36	39.9	3	N	0.05	8	N	67.9	65	65	30.1	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	23	1	100	1
9/24/2012	5:18 PM	68	68	67.9	36	40	1	NNE	0.02	4	NNE	68	65.1	65.1	30.101	0	0	0	0.002	70.2	36	42	67.2	7.24	0.0747	23	1	100	1
9/24/2012	5:19 PM	68	68	67.9	36	40	1	ENE	0.02	3	ENE	68	65.1	65.1	30.099	0	0	0	0.002	70.2	36	42	67.2	7.24	0.0747	23	1	100	1
9/24/2012	5:20 PM	68	68	68	36	40	3	ENE	0.05	7	N	68	65.1	65.1	30.101	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	24	1	100	1
9/24/2012	5:21 PM	67.9	67.9	67.9	36	39.9	2	ENE	0.03	4	NE	67.9	65	65	30.099	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	22	1	95.7	1
9/24/2012	5:22 PM	67.8	67.9	67.8	35	39.1	2	N	0.03	4	NNE	67.8	64.8	64.8	30.098	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	24	1	100	1
9/24/2012	5:23 PM	67.7	67.8	67.7	35	39	2	N	0.03	4	N	67.7	64.7	64.7	30.098	0	0	0	0.002	69.9	36	41.7	66.9	7.25	0.0747	22	1	95.7	1
9/24/2012	5:24 PM	67.5	67.7	67.5	36	39.6	3	E	0.05	6	E	67.5	64.6	64.6	30.098	0	0	0	0.002	69.9	37	42.4	67	7.35	0.0747	24	1	100	1
9/24/2012	5:25 PM	67.3	67.5	67.3	35	38.7	3	E	0.05	5	E	67.3	64.2	64.2	30.099	0	0	0	0.002	69.7	37	42.3	66.8	7.35	0.0747	22	1	95.7	1
9/24/2012	5:26 PM	67.1	67.3	67.1	35	38.5	3	ENE	0.05	5	ESE	67.1	64	64	30.098	0	0	0	0.001	69.7	37	42.3	66.8	7.35	0.0747	23	1	100	1
9/24/2012	5:27 PM	67	67.1	67	36	39.1	2	ENE	0.03	4	ENE	67	64	64	30.099	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0748	23	1	100	1
9/24/2012	5:28 PM	66.8	67	66.8	36	39	2	NNW	0.03	4	N	66.8	63.8	63.8	30.097	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0747	22	1	95.7	1
9/24/2012	5:29 PM	66.7	66.8	66.7	36	38.9	1	NNW	0.02	2	NNW	66.7	63.7	63.7	30.097	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0747	24	1	100	1
9/24/2012	5:30 PM	66.6	66.7	66.6	37	39.5	0	NNW	0	2	NNW	66.6	63.7	63.7	30.095	0	0	0	0.001	69.4	37	42	66.6	7.35	0.0748	22	1	95.7	1
9/24/2012	5:31 PM	66.6	66.6	66.6	37	39.5	2	NNW	0.03	6	NW	66.6	63.7	63.7	30.094	0	0	0	0.001	69.4	37	42	66.6	7.35	0.0748	23	1	100	1
9/24/2012	5:32 PM	66.5	66.5	66.5	37	39.4	2	NNW	0.03	5	NNW	66.5	63.6	63.6	30.097	0	0	0	0.001	69.2	37	41.8	66.4	7.35	0.0748	23	1	100	1
9/24/2012	5:33 PM	66.4	66.5	66.4	37	39.3	2	NE	0.03	5	E	66.4	63.5	63.5	30.098	0	0	0	0.001	69.2	37	41.8	66.4	7.35	0.0748	23	1	100	1
9/24/2012	5:34 PM	66.5	66.5	66.4	38	40.1	2	ENE	0.03	4	NNW	66.5	63.7	63.7	30.1	0	0	0	0.001	69	37	41.6	66.2	7.35	0.0749	22	1	95.7	1
9/24/2012	5:35 PM	66.5	66.5	66.5	38	40.1	4	NE	0.07	7	NW	66.5	63.7	63.7	30.099	0	0	0	0.001	69	37	41.6	66.2	7.35	0.0749	23	1	100	1
9/24/2012	5:36 PM	66.5	66.5	66.5	38	40.1	3	NE	0.05	5	NW	66.5	63.7	63.7	30.1	0	0	0	0.001	68.9	37	41.5	66.1	7.35	0.0749	24	1	100	1
9/24/2012	5:37 PM	66.6	66.6	66.6	36	38.8	1	NNW	0.02	4	NNW	66.6	63.6	63.6	30.1	0	0	0	0.001	68.9	37	41.5	66.1	7.35	0.0749	23	1	100	1
9/24/2012	5:38 PM	66.7	66.7	66.6	37	39.6	3	NNW	0.05	4	NNW	66.7	63.8	63.8	30.1	0	0	0	0.001	68.7	37	41.4	65.9	7.35	0.0749	23	1	100	1
9/24/2012	5:39 PM	66.7	66.7	66.7	36	38.9	4	NNW	0.07	5	NNW	66.7	63.7	63.7	30.099	0	0	0	0.001	68.7	37	41.4	65.9	7.35	0.0749	24	1	100	1
9/24/2012	5:40 PM	66.6	66.7	66.6	36	38.8	2	N	0.03	4	N	66.6	63.6	63.6	30.099	0	0	0	0.001	68.5	37	41.2	65.7	7.35	0.0749	23	1	100	1
9/24/2012	5:41 PM	66.6	66.7	66.6	37	39.5	3	N	0.05	5	N	66.6	63.7	63.7	30.099	0	0	0	0.001	68.5	37	41.2	65.7	7.35	0.0749	23	1	100	1
9/24/2012	5:42 PM	66.6	66.6	66.6	35	38.1	2	N	0.03	4	N	66.6	63.5	63.5	30.1	0	0	0	0.001	68.4	37	41.1	65.6	7.35	0.075	23	1	100	1
9/24/2012	5:43 PM	66.6	66.6	66.6	36	38.8	2	N	0.03	3	N	66.6	63.6	63.6	30.1	0	0	0	0.001	68.4	37	41.1	65.6	7.35	0.075	23	1	100	1
9/24/2012	5:44 PM	66.7	66.7	66.6	37	39.6	1	N	0.02	3	N	66.7	63.8	63.8	30.103	0	0	0	0.001	68.2	37	40.9	65.4	7.35	0.075	24	1	100	1
9/24/2012	5:45 PM	66.8	66.8	66.7	37	39.7	1	N	0.02	4	NNW	66.8	63.9	63.9	30.101	0	0	0	0.001	68.2	38	41.6	65.6	7.55	0.075	23	1	100	1
9/24/2012	5:46 PM	66.8	66.8	66.8	36	39	4	W	0.07	7	NW	66.8	63.8	63.8	30.099	0	0	0	0.001	68	38	41.4	65.4	7.55	0.075	24	1	100	1
9/24/2012	5:47 PM	66.7	66.8	66.7	37	39.6	3	NW	0.05	5	NNW	66.7	63.8	63.8	30.1	0	0	0	0.001	68	38	41.4	65.4	7.55	0.075	23	1	100	1
9/24/2012	5:48 PM	66.7	66.8	66.7	37	39.6	0	NW	0	2	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.9	38	41.3	65.3	7.55	0.075	24	1	100	1
9/24/2012	5:49 PM	66.7	66.7	66.7	37	39.6	1	NW	0.02	2	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.7	38	41.2	65	7.55	0.075	23	1	100	1
9/24/2012	5:50 PM	66.7	66.8	66.7	37	39.6	0	NW	0	1	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.7	38	41.2	65	7.55	0.075	23	1	100	1
9/24/2012	5:51 PM	66.8	66.8	66.7	37	39.7	1	NW	0.02	3	NNW	66.8	63.9	63.9	30.102	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	23	1	100	1
9/24/2012	5:52 PM	66.8	66.8	66.8	38	40.4	3	NNW	0.05	5	NNW	66.8	64	64	30.1	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	23	1	100	1
9/24/2012	5:53 PM	66.8	66.8	66.8	37	39.7	2	W	0.03	5	W	66.8	63.9	63.9	30.1	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	22	1	95.7	1
9/24/2012	5:54 PM	66.8	66.8	66.8	37	39.7	3	ENE	0.05	5	ENE	66.8	63.9	63.9	30.1	0	0	0	0.001	67.4	38	40.9	64.7	7.55	0.0751	23	1	100	1
9/24/2012	5:55 PM	66.7	66.8	66.7	35	38.2	3	ENE	0.05	4	ENE	66.7	63.6	63.6	30.102	0	0	0	0.001	67.4	38	40.9	64.7	7.55	0.0751	23	1	100	1
9/24/2012	5:56 PM	66.6	66.7	66.6	36	38.8	3	ENE	0.05	6	NE	66.6	63.6	63.6	30.101	0	0	0	0.001	67.2	38	40.7	64.5	7.55	0.0751	24	1	100	1
9/24/2012	5:57 PM	66.5	66.7	66.5	35	38	6	N	0.1	10	NNW	66.5	63.4	63.4	30.1	0	0	0	0.001	67.2	38	40.7	64.5	7.55	0.0751	23	1	100	1
9/24/2012	5:58 PM	66.5	66.5	66.5	35	38	9	N	0.15	12	N	65.2	63.4	62.1	30.098	0	0	0	0.001	67	38	40.5	64.3	7.55	0.0752	24	1	100	1
9/24/2012	5:59 PM	66.4	66.5	66.4	36	38.6	3	N	0.05	12	N	66.4	63.4	63.4	30.101	0	0	0	0.001	67	38	40.5	64.3	7.55	0.0752	23	1	100	1
9/24/2012	6:00 PM	66.4	66.4	66.4	36	38.6	3	NNE	0.05	6	NNE	66.4	63.4	63.4	30.101	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	23	1	100	1
9/24/2012	6:01 PM	66.4	66.4	66.4	37	39.3	3	NNW	0.05	8	N	66.4	63.5	63.5	30.101	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	24	1	100	1
9/24/2012	6:02 PM	66.3	66.4	66.3	36	38.5	4	NNW	0.07	7	NW	66.3	63.3	63.3	30.103	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	23	1	100	1
9/24/2012	6:03 PM	66.3	66.3	66.3	37	39.2	2	ENE	0.03	4	NNW	66.3	63.4	63.4	30.102	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	24	1	100	1
9/24/2012	6:04 PM	66.2	66.3	66.2	37	39.1	4	NW	0.07	6	N	66.2	63.3	63.3	30.1	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	23	1	100	1
9/24/2012	6:05 PM	66.2	66.3	66.2	37	39.1	4	NNE	0.07	7	NW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	24	1	100	1
9/24/2012	6:06 PM	66.2	66.2	66.2	37	39.1	3	N	0.05	8	NNW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	23	1	100	1
9/24/2012	6:07 PM	66.2	66.2	66.2	36	38.4	2	NE	0.03	5	NNW	66.2	63.2	63.2	30.103	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:08 PM	66.2	66.2	66.2	36	38.4	4	N	0.07	9	NNW	66.2	63.2	63.2	30.101	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0752	24	1	100	1
9/24/2012	6:09 PM	66.2	66.2	66.1	36	38.4	5	ENE	0.08	11	NW	66.2	63.2	63.2	30.102	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:10 PM	66.1	66.1	66.1	36	38.4	3	E	0.05	6	NNW	66.1	63.1	63.1	30.103	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	24	1	100	1
9/24/2012	6:11 PM	66	66.1	66	36	38.3	3	N	0.05	6	N	66	63	63	30.102	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	23	1	100	1
9/24/2012	6:12 PM	66	66	66	36	38.3	1	N	0.02	4	NNW	66	63	63	30.102	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	23	1	100	1
9/24/2012	6:13 PM	65.9	65.9	65.9	37	38.9	3	NW	0.05	6	NNW	65.9	63	63	30.104	0	0	0	0.001	66.1	39	40.4	63.4	7.73	0.0753	23	1	100	1
9/24/2012	6:14 PM	65.8	65.9	65.8	37	38.8	2	NNE	0.03	4	NNE	65.8	62.9	62.9	30.105	0	0	0	0.001	66.1	39	40.4	63.4	7.73	0.0753	23	1	100	1
9/24/2012	6:15 PM	65.8	65.8	65.8	38	39.5	2	NNW	0.

Meteorological Data
Equity IRM

9/24/2012	7:35 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	2	NNW	63.4	60.8	60.8	30.117	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:36 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	3	NNW	63.4	60.8	60.8	30.118	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:37 PM	63.3	63.4	63.3	41	39.2	1	NNW	0.02	2	NNW	63.3	60.7	60.7	30.119	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	24	1	100	1
9/24/2012	7:38 PM	63.3	63.4	63.3	42	39.8	0	NNW	0	2	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	23	1	100	1
9/24/2012	7:39 PM	63.3	63.3	63.3	42	39.8	1	NNW	0.02	3	NNW	63.3	60.8	60.8	30.119	0	0	0.001	0	60.2	42	37	57.7	8.15	0.0763	24	1	100	1
9/24/2012	7:40 PM	63.3	63.3	63.3	42	39.8	0	NNW	0	1	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:41 PM	63.3	63.3	63.3	43	40.4	1	NNW	0.02	2	NNW	63.3	60.9	60.9	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:42 PM	63.2	63.3	63.2	43	40.3	1	NNW	0.02	4	NNW	63.2	60.8	60.8	30.121	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	24	1	100	1
9/24/2012	7:43 PM	63.2	63.2	63.2	41	39.1	3	N	0.05	6	NW	63.2	60.6	60.6	30.121	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	23	1	100	1
9/24/2012	7:44 PM	63.1	63.2	63.1	42	39.6	1	N	0.02	2	N	63.1	60.6	60.6	30.122	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	24	1	100	1
9/24/2012	7:45 PM	63.1	63.2	63.1	42	39.6	0	N	0	2	N	63.1	60.6	60.6	30.122	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	23	1	100	1
9/24/2012	7:46 PM	63.1	63.1	63.1	42	39.6	2	WNW	0.03	3	WNW	63.1	60.6	60.6	30.122	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	23	1	100	1
9/24/2012	7:47 PM	63.1	63.1	63.1	41	39	3	WSW	0.05	5	WSW	63.1	60.5	60.5	30.122	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	24	1	100	1
9/24/2012	7:48 PM	63.2	63.2	63.1	41	39.1	3	SW	0.05	4	WSW	63.2	60.6	60.6	30.123	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	23	1	100	1
9/24/2012	7:49 PM	63.2	63.2	63.2	42	39.7	1	SW	0.02	3	SW	63.2	60.7	60.7	30.123	0	0	0.001	0	59.6	42	36.5	57.1	8.15	0.0764	23	1	100	1
9/24/2012	7:50 PM	63.3	63.3	63.2	43	40.4	2	SW	0.03	4	SW	63.3	60.9	60.9	30.123	0	0	0.001	0	59.6	42	36.5	57.1	8.15	0.0764	23	1	100	1
9/24/2012	7:51 PM	63.4	63.4	63.3	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.122	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	23	1	100	1
9/24/2012	7:52 PM	63.4	63.4	63.4	42	39.9	2	WSW	0.03	4	WSW	63.4	60.9	60.9	30.125	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	23	1	100	1
9/24/2012	7:53 PM	63.4	63.4	63.4	42	39.9	1	WSW	0.02	4	WSW	63.4	60.9	60.9	30.124	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	22	1	95.7	1
9/24/2012	7:54 PM	63.4	63.4	63.4	42	39.9	4	WSW	0.07	6	WNW	63.4	60.9	60.9	30.12	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	24	1	100	1
9/24/2012	7:55 PM	63.4	63.4	63.4	41	39.3	3	WSW	0.05	5	WNW	63.4	60.8	60.8	30.121	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	22	1	95.7	1
9/24/2012	7:56 PM	63.4	63.4	63.4	42	39.9	4	SW	0.07	7	SW	63.4	60.9	60.9	30.122	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	24	1	100	1
9/24/2012	7:57 PM	63.5	63.5	63.4	42	40	0	W	0	1	W	63.5	61	61	30.123	0	0	0.001	0	59.1	43	36.6	56.6	8.33	0.0765	23	1	100	1
9/24/2012	7:58 PM	63.4	63.5	63.4	43	40.5	3	SW	0.05	7	NNW	63.4	61	61	30.123	0	0	0.001	0	59.1	43	36.6	56.6	8.33	0.0765	23	1	100	1
9/24/2012	7:59 PM	63.5	63.5	63.4	42	40	4	WNW	0.07	6	WNW	63.5	61	61	30.124	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	24	1	100	1
9/24/2012	8:00 PM	63.5	63.5	63.5	43	40.6	1	WSW	0.02	4	WNW	63.5	61.1	61.1	30.124	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	23	1	100	1
9/24/2012	8:01 PM	63.5	63.5	63.5	43	40.6	2	WSW	0.03	5	WNW	63.5	61.1	61.1	30.123	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	23	1	100	1
9/24/2012	8:02 PM	63.5	63.5	63.5	42	40	4	W	0.07	6	WNW	63.5	61	61	30.122	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	22	1	95.7	1
9/24/2012	8:03 PM	63.5	63.5	63.5	43	40.6	2	WNW	0.03	3	WNW	63.5	61.1	61.1	30.123	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	24	1	100	1
9/24/2012	8:04 PM	63.4	63.5	63.4	43	40.5	1	W	0.02	3	W	63.4	61	61	30.124	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	22	1	95.7	1
9/24/2012	8:05 PM	63.5	63.5	63.4	43	40.6	1	W	0.02	3	W	63.5	61.1	61.1	30.123	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	23	1	100	1
9/24/2012	8:06 PM	63.5	63.5	63.4	43	40.6	2	W	0.03	5	W	63.5	61.1	61.1	30.124	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:07 PM	63.4	63.5	63.4	44	41.1	1	W	0.02	3	W	63.4	61.1	61.1	30.122	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	22	1	95.7	1
9/24/2012	8:08 PM	63.4	63.4	63.4	42	39.9	4	WSW	0.07	5	W	63.4	60.9	60.9	30.123	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:09 PM	63.5	63.5	63.4	42	40	3	WSW	0.05	5	WSW	63.5	61	61	30.124	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:10 PM	63.5	63.5	63.5	42	40	2	WSW	0.03	6	W	63.5	61	61	30.125	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	22	1	95.7	1
9/24/2012	8:11 PM	63.5	63.5	63.4	43	40.6	2	SW	0.03	4	SW	63.5	61.1	61.1	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	22	1	95.7	1
9/24/2012	8:12 PM	63.4	63.5	63.4	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:13 PM	63.5	63.5	63.4	42	40	2	SW	0.03	5	SW	63.5	61	61	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:14 PM	63.4	63.5	63.4	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.124	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:15 PM	63.4	63.4	63.4	44	41.1	1	NE	0.02	3	NE	63.4	61.1	61.1	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	24	1	100	1
9/24/2012	8:16 PM	63.4	63.4	63.4	43	40.5	1	NE	0.02	2	NE	63.4	61	61	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:17 PM	63.4	63.4	63.4	43	40.5	1	NE	0.02	3	NE	63.4	61	61	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:18 PM	63.4	63.4	63.4	43	40.5	3	NE	0.05	4	NE	63.4	61	61	30.127	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:19 PM	63.4	63.4	63.4	43	40.5	2	SW	0.03	5	SW	63.4	61	61	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:20 PM	63.4	63.4	63.4	44	41.1	1	SW	0.02	3	SW	63.4	61.1	61.1	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:21 PM	63.4	63.4	63.3	43	40.5	1	SW	0.02	5	WSW	63.4	61	61	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:22 PM	63.3	63.3	63.3	43	40.4	1	WSW	0.02	2	WSW	63.3	60.9	60.9	30.123	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:23 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	5	SW	63.3	60.9	60.9	30.124	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:24 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	7	SW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:25 PM	63.3	63.3	63.3	42	39.8	4	SW	0.07	6	SW	63.3	60.8	60.8	30.126	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:26 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	5	SW	63.3	60.9	60.9	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:27 PM	63.4	63.4	63.3	43	40.5	2	SW	0.03	3	SW	63.4	61	61	30.124	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:28 PM	63.3	63.4	63.3	43	40.4	3	W	0.05	9	WNW	63.3	60.9	60.9	30.125	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:29 PM	63.3	63.4	63.3	44	41	1	WSW	0.02	3	WSW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:30 PM	63.3	63.3	63.3	44	41	2	WSW	0.03	4	WSW	63.3	60.9	60.9	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:31 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	6	WSW	63.3	60.9	60.9	30.128	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:32 PM	63.3	63.3	63.3	43	40.4	2	SW	0.03	4	SW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:33 PM	63.2	63.3	63.2	44	40.9	2	SW	0.03	6	NW	63.2	60.8	60.8	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:34 PM	63.2	63.2	63.2	45	41.5	2	NE	0.03	5	W	63.2	60.9	60.9	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:35 PM	63.1	63.2	63.1	44	40.8	3	NW	0.05	6	NW	63.1	60.7	60.7	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:36 PM	63.1	63.1	63.1	45	41.4	1	SW	0.02	4	SW	63.1	60.8	60.8	30.129	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:37 PM	63.1	63.1	63.1	45	41.4	3	SW	0.05	7	NW	63.1	60.8	60.8	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:38 PM	63.1	63.1	63	44	40.8	0	N	0	2	N	63.1	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:39 PM	63	63	63	44	40.7	2	NW	0.03	4	W	63	60.6	60.6	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:40 PM	63	63	63	45	41.3	2	W	0.03	4	W	63	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:41 PM	63	63	63	44	40.7	3	WNW	0.05	6	WNW	63	60.6	60.6	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:42 PM	63	63	63	45	41.3	1	SW	0.02	2	SW	63	60.7	60.7	30.129	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:43 PM	63	63	63	45	41.3	0	SW	0	2	SW	63	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:44 PM	63	63	63	45	41.3	1	SW	0.02	2	SW	63	60.7	60.7	30.13	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	24	1	100	1
9/24/2012	8:45 PM	63	63	62.9	45	41.3	2	SW	0.03	5	SW	63	60.7	60.7	30.131	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	23	1	100	1
9/24/2012	8:46 PM	63	63	62.9	45	41.3	2	WSW	0.03	6	NW	63	60.7	60.7	30.13	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	23	1	100	1
9/24/2012	8:47 PM	63	63	62.9	44	40.7	2	NW	0.03	5	WSW	63	60.6	60.6	30.13	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	24	1	100	1
9/24/2012	8:48 PM	62.9	63	62.9	45	41.2	2	NW	0.03	9	WSW	62.9	60.6	60.6	30.13	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	23	1	100	1
9/24/2012	8:49 PM	63	63	62.9	44	40.7	5	WSW	0.08	9	WSW	63	60.6	60.6	30.129	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	24	1	100	1
9/24/2012	8:50 PM	63	63	63	44	40.7	3	SSW	0.05	5	SW	63	60.6	60.6	30.131	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	23	1	100	1
9/24/2012	8:51 PM	63	63	63	43	40.1	4	SW	0.07	7	SSW	63	60.5	60.5	30.13	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:52 PM	63	63	63	44	40.7	1	WSW	0.02	4	WSW	63	60.6	60.6	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	8:53 PM	63	63	63	44	40.7	4	W	0.07	6	W	63	60.6	60.6	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:54 PM	63.1	63.1	63	44	40.8	1	W	0.02	3	W	63.1	60.7	60.7	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:55 PM	63	63.1	63	44	40.7	2	WSW	0.03	4	WSW	63	60.6	60.6	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:56 PM	63	63.1	63	44	40.7	3	WNW	0.05	6	NNW	63	60.6	60.6	30.13	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	23	1	100	1
9/24/2012	8:57 PM	63	63	63	44	40.7	2	NNW	0.03	5	NNW	63	60.6	60.6	30.131	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	23	1	100	1
9/24/2012	8:58 PM	63.1	63.1	63	45	41.4	2	W	0.03	4	W	63.1	60.8	60.8	30.13	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	22	1	95.7	1
9/24/2012	8:59 PM	63.1	63.1	63	45	41.4	0	W	0	3	W	63.1	60.8	60.8	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	9:00 PM	63.1	63.1	63	45	41.4	1	W	0.02	3	W	63.1	60.8	60.8	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	22	1	95.7	1
9/24/2012	9:01 PM	63	63	63	45	41.3	0	W	0	1	W	63	60.7	60.7	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	9:02 PM	63	63	63	46	41.9	2	W	0.03	5	WSW	63	60.8	60.8	30.132	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	22	1	95.7	1
9/24/2012	9:03 PM	63	63	63	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.131	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:04 PM	63	63	62.9	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.132	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:05 PM	62.9	62.9	62.9	46	41.8	3	SW	0.05	4	SW	62.9	60.7	60.7	30.133	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	22	1	95.7	1
9/24/2012	9:06 PM	62.9	63	62.9	45	41.2	1	SW	0.02	3	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	24	1	100	1
9/24/2012	9:07 PM	62.9	62.9	62.9	46	41.8	1	SW	0.02	7	SW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:08 PM	62.9	62.9	62.9	46	41.8	4	WSW	0.07	7	WSW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:09 PM	62.9	62.9	62.9	45	41.2	2	SW	0.03	4	SSW	62.9	60.6	60.6	30.134	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:10 PM	62.9	62.9	62.9	45	41.2	3	SW	0.05	4	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:11 PM	62.9	62.9	62.9	46	41.8	2	SW	0.03	4	SW	62.9	60.7	60.7	30.134	0	0	0.001	0	57.4	43	35.1	55	8.3	0.0768	24	1	100	1
9/24/2012	9:12 PM	62.8	62.9	62.8	46	41.7	1	SW	0.02	5	WNW	62.8	60.6	60.6	30.134	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	23	1	100	1
9/24/2012	9:13 PM	62.8	62.8	62.8	46	41.7	2	WNW	0.03	5	WNW	62.8	60.6	60.6	30.133	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	24	1	100	1
9/24/2012	9:14 PM	62.8	62.8	62.8	45	41.1	1	SSW	0.02	3	SSW	62.8	60.5	60.5	30.132	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	23	1	100	1
9/24/2012	9:15 PM	62.8	62.8	62.8	45	41.1	3	SSW	0.05	6	WSW	62.8	60.5	60.5	30.134	0	0	0.002	0	57.4	43	35.1	55	8.3	0.0768	23

Meteorological Data
Equity IRM

9/24/2012	10:35 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	3	SW	61.5	59.5	59.5	30.14	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	24	1	100	1
9/24/2012	10:36 PM	61.4	61.5	61.4	50	42.6	2	SW	0.03	4	SW	61.4	59.4	59.4	30.141	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:37 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	4	W	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:38 PM	61.5	61.5	61.5	50	42.7	1	WNW	0.02	3	WNW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:39 PM	61.5	61.5	61.5	50	42.7	2	N	0.03	7	NW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	22	1	95.7	1
9/24/2012	10:40 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	5	SW	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:41 PM	61.5	61.5	61.5	51	43.2	1	SW	0.02	2	SW	61.5	59.6	59.6	30.142	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:42 PM	61.5	61.5	61.4	51	43.2	0	SW	0	2	SW	61.5	59.6	59.6	30.141	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:43 PM	61.4	61.5	61.4	51	43.1	1	SW	0.02	4	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	23	1	100	1
9/24/2012	10:44 PM	61.4	61.4	61.4	51	43.1	1	SW	0.02	2	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	22	1	95.7	1
9/24/2012	10:45 PM	61.4	61.4	61.4	51	43.1	1	SW	0.02	2	SW	61.4	59.5	59.5	30.141	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	24	1	100	1
9/24/2012	10:46 PM	61.4	61.4	61.4	51	43.1	3	SW	0.05	4	SW	61.4	59.5	59.5	30.137	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	22	1	95.7	1
9/24/2012	10:47 PM	61.4	61.4	61.4	50	42.6	2	SW	0.03	4	SW	61.4	59.4	59.4	30.137	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	23	1	100	1
9/24/2012	10:48 PM	61.4	61.4	61.4	50	42.6	1	SW	0.02	2	SW	61.4	59.4	59.4	30.137	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	23	1	100	1
9/24/2012	10:49 PM	61.5	61.5	61.4	52	43.7	1	SW	0.02	4	SW	61.5	59.7	59.7	30.139	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	22	1	95.7	1
9/24/2012	10:50 PM	61.5	61.5	61.4	51	43.2	1	SW	0.02	2	SW	61.5	59.6	59.6	30.139	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	24	1	100	1
9/24/2012	10:51 PM	61.4	61.5	61.4	52	43.6	1	SW	0.02	2	SW	61.4	59.6	59.6	30.137	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	22	1	95.7	1
9/24/2012	10:52 PM	61.4	61.4	61.4	51	43.1	0	SW	0	1	SW	61.4	59.5	59.5	30.138	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	24	1	100	1
9/24/2012	10:53 PM	61.4	61.4	61.4	51	43.1	3	SW	0.05	5	SW	61.4	59.5	59.5	30.138	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	22	1	95.7	1
9/24/2012	10:54 PM	61.3	61.4	61.3	51	43	2	WSW	0.03	4	W	61.3	59.4	59.4	30.138	0	0	0.003	0	55.8	44	34.2	53.6	8.47	0.077	24	1	100	1
9/24/2012	10:55 PM	61.3	61.4	61.3	51	43	2	WSW	0.03	3	WSW	61.3	59.4	59.4	30.138	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	10:56 PM	61.3	61.4	61.3	52	43.5	0	WSW	0	1	WSW	61.3	59.5	59.5	30.137	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	23	1	100	1
9/24/2012	10:57 PM	61.3	61.3	61.3	52	43.5	0	WSW	0	2	WSW	61.3	59.5	59.5	30.137	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	24	1	100	1
9/24/2012	10:58 PM	61.3	61.3	61.3	53	44	1	WSW	0.02	2	WSW	61.3	59.6	59.6	30.137	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	10:59 PM	61.2	61.3	61.2	54	44.4	2	W	0.03	4	W	61.2	59.5	59.5	30.139	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	24	1	100	1
9/24/2012	11:00 PM	61.2	61.2	61.2	52	43.4	1	SW	0.02	2	W	61.2	59.4	59.4	30.14	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	23	1	100	1
9/24/2012	11:01 PM	61.1	61.2	61.1	52	43.3	2	NNW	0.03	5	NNW	61.1	59.3	59.3	30.14	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	11:02 PM	61.1	61.1	61.1	52	43.3	1	NNW	0.02	1	NNW	61.1	59.3	59.3	30.142	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	24	1	100	1
9/24/2012	11:03 PM	61.1	61.1	61	52	43.3	1	NNW	0.02	2	NNW	61.1	59.3	59.3	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	22	1	95.7	1
9/24/2012	11:04 PM	61	61	61	52	43.2	3	WSW	0.05	7	W	61	59.2	59.2	30.141	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:05 PM	61	61	61	52	43.2	2	NW	0.03	4	NW	61	59.2	59.2	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:06 PM	61	61	61	52	43.2	1	NW	0.02	4	NW	61	59.2	59.2	30.142	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:07 PM	61	61	61	53	43.7	2	NW	0.03	5	WSW	61	59.2	59.2	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:08 PM	61	61	61	51	42.7	7	WSW	0.12	11	NW	60.4	59.1	58.5	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:09 PM	61.1	61.1	61	51	42.8	4	SW	0.07	7	SSW	61.1	59.2	59.2	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:10 PM	61.2	61.2	61.1	51	42.9	3	SW	0.05	5	SW	61.2	59.3	59.3	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	22	1	95.7	1
9/24/2012	11:11 PM	61.3	61.3	61.2	51	43	1	SW	0.02	2	SW	61.3	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:12 PM	61.2	61.2	61.2	51	42.9	2	SW	0.03	3	SW	61.2	59.3	59.3	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:13 PM	61.2	61.2	61.2	51	42.9	2	SW	0.03	4	SW	61.2	59.3	59.3	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:14 PM	61.2	61.2	61.2	51	42.9	1	SW	0.02	3	SW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:15 PM	61.2	61.2	61.2	51	42.9	2	WNW	0.03	5	NW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:16 PM	61.2	61.2	61.2	52	43.4	2	WNW	0.03	3	WNW	61.2	59.4	59.4	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:17 PM	61.2	61.2	61.2	51	42.9	3	WNW	0.05	6	WNW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:18 PM	61.2	61.2	61.2	52	43.4	2	SW	0.03	3	SW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:19 PM	61.2	61.2	61.2	52	43.4	2	WSW	0.03	4	WSW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:20 PM	61.2	61.2	61.2	52	43.4	1	WNW	0.02	2	WNW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:21 PM	61.2	61.2	61.1	52	43.4	0	WNW	0	1	WNW	61.2	59.4	59.4	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:22 PM	61.1	61.2	61.1	52	43.3	1	WNW	0.02	2	WNW	61.1	59.3	59.3	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:23 PM	61.1	61.1	61.1	52	43.3	1	WNW	0.02	2	WNW	61.1	59.3	59.3	30.143	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:24 PM	61	61.1	61	53	43.7	1	WNW	0.02	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:25 PM	61	61.1	61	52	43.2	1	W	0.02	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:26 PM	61	61	61	52	43.2	2	W	0.03	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:27 PM	61	61	61	52	43.2	2	W	0.03	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:28 PM	61	61	61	52	43.2	1	WNW	0.02	2	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:29 PM	60.9	61	60.9	53	43.6	1	WNW	0.02	3	W	60.9	59.1	59.1	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:30 PM	60.9	60.9	60.9	52	43.1	4	WSW	0.07	6	W	60.9	59.1	59.1	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:31 PM	60.9	60.9	60.8	52	43.1	3	WSW	0.05	5	WSW	60.9	59.1	59.1	30.145	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:32 PM	60.8	60.9	60.8	52	43.1	2	WSW	0.03	3	WSW	60.8	59	59	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	21	1	91.3	1
9/24/2012	11:33 PM	60.8	60.8	60.8	52	43.1	1	WSW	0.02	3	WSW	60.8	59	59	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:34 PM	60.8	60.8	60.8	53	43.6	2	WSW	0.03	4	WSW	60.8	59	59	30.143	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	22	1	95.7	1
9/24/2012	11:35 PM	60.8	60.8	60.8	52	43.1	2	WSW	0.03	4	WSW	60.8	59	59	30.143	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:36 PM	60.8	60.8	60.7	53	43.6	4	SW	0.07	6	SW	60.8	59	59	30.142	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:37 PM	60.7	60.8	60.7	53	43.5	4	WSW	0.07	9	WSW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:38 PM	60.7	60.8	60.7	52	43	3	WSW	0.05	5	WSW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:39 PM	60.7	60.8	60.7	53	43.5	1	WSW	0.02	3	WSW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:40 PM	60.7	60.7	60.7	53	43.5	2	WSW	0.03	3	WSW	60.7	58.9	58.9	30.145	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	24	1	100	1
9/24/2012	11:41 PM	60.7	60.7	60.7	52	43	2	WSW	0.03	3	WSW	60.7	58.9	58.9	30.145	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:42 PM	60.7	60.7	60.7	52	43	1	WSW	0.02	3	WSW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:43 PM	60.7	60.7	60.7	52	43	2	WSW	0.03	5	SW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:44 PM	60.7	60.7	60.7	52	43	4	SW	0.07	5	SW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:45 PM	60.7	60.7	60.7	52	43	1	SW	0.02	3	SW	60.7	58.9	58.9	30.143	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:46 PM	60.7	60.7	60.7	52	43	1	SW	0.02	3	SW	60.7	58.9	58.9	30.144	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:47 PM	60.7	60.7	60.7	52	43	1	SW	0.02	2	SW	60.7	58.9	58.9	30.146	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:48 PM	60.7	60.7	60.7	52	43	1	SW	0.02	2	SW	60.7	58.9	58.9	30.146	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:49 PM	60.7	60.7	60.6	54	43.9	0	SW	0	1	SW	60.7	59	59	30.147	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:50 PM	60.6	60.6	60.6	53	43.4	1	SW	0.02	2	SW	60.6	58.8	58.8	30.147	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:51 PM	60.6	60.6	60.5	53	43.4	1	SW	0.02	3	SW	60.6	58.8	58.8	30.15	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:52 PM	60.5	60.6	60.5	53	43.3	2	SW	0.03	4	SW	60.5	58.7	58.7	30.148	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:53 PM	60.5	60.5	60.5	53	43.3	2	SW	0.03	3	SW	60.5	58.7	58.7	30.15	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:54 PM	60.5	60.5	60.5	54	43.8	2	SW	0.03	4	SW	60.5	58.8	58.8	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:55 PM	60.4	60.5	60.4	53	43.2	1	SW	0.02	4	SW	60.4	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/24/2012	11:56 PM	60.4	60.4	60.4	53	43.2	1	SW	0.02	2	SW	60.4	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:57 PM	60.4	60.4	60.3	54	43.7	1	SW	0.02	3	SW	60.4	58.7	58.7	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/24/2012	11:58 PM	60.3	60.3	60.3	53	43.1	1	SW	0.02	3	SW	60.3	58.5	58.5	30.15	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:59 PM	60.3	60.3	60.3	54	43.6	0	SW	0	1	SW	60.3	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/25/2012	12:00 AM	60.2	60.3	60.2	54	43.5	0	SW	0	4	SW	60.2	58.5	58.5	30.15	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:01 AM	60.2	60.2	60.2	54	43.5	1	SW	0.02	3	SW	60.2	58.5	58.5	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	22	1	95.7	1
9/25/2012	12:02 AM	60.2	60.2	60.2	55	44	0	SW	0	1	SW	60.2	58.6	58.6	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:03 AM	60.1	60.1	60.1	56	44.3	1	SW	0.02	3	SW	60.1	58.6	58.6	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:04 AM	60	60.1	60	56	44.3	0	SW	0	1	SW	60	58.5	58.5	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:05 AM	60	60	60	55	43.8	0	---	0	0	---	60	58.4	58.4	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:06 AM	59.9	60	59.9	56	44.2	0	SW	0	1	SW	59.9	58.4	58.4	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:07 AM	59.9	59.9	59.9	55	43.7	1	SW	0.02	2	SW	59.9	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:08 AM	59.8	59.9	59.8	55	43.6	0	---	0	0	---	59.8	58.2	58.2	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:09 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:10 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:11 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:12 AM	59.7	59.7	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.149	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	23	1	100	1
9/25/2012	12:13 AM	59.6	59.6	59.6	59	45.2	0	SW	0	1	SW	59.6	58.2	58.2	30.148	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	24	1	100	1
9/25/2012	12:14 AM	59.6	59.6	59.6	57	44.3	1	SW	0.02	2	SW	59.6	58.1	58.1	30.15	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	23	1	100	1
9/25/2012	12:15 AM	59.5	59.5	59.5	55	43.3	0	SW	0	1	S

Meteorological Data
Equity IRM

9/25/2012	1:35 AM	60.2	60.2	60.2	52	42.5	2	SW	0.03	5	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:36 AM	60.2	60.2	60.2	53	43	3	WSW	0.05	6	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:37 AM	60.2	60.2	60.1	53	43	2	SW	0.03	4	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:38 AM	60.1	60.1	60.1	53	42.9	3	SW	0.05	5	SW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:39 AM	60.1	60.1	60.1	53	42.9	3	WSW	0.05	4	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:40 AM	60.1	60.1	60	53	42.9	4	WSW	0.07	7	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:41 AM	60.1	60.1	60	54	43.4	2	WSW	0.03	4	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:42 AM	60.1	60.1	60	54	43.4	3	WSW	0.05	5	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:43 AM	60	60	60	54	43.3	4	WSW	0.07	6	W	60	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:44 AM	60	60	60	54	43.3	3	WSW	0.05	5	WSW	60	58.3	58.3	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:45 AM	60	60	60	54	43.3	5	WSW	0.08	6	WSW	60	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:46 AM	60	60	60	54	43.3	3	WSW	0.05	6	WSW	60	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:47 AM	60	60	60	55	43.8	2	WSW	0.03	4	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:48 AM	60	60	60	55	43.8	1	WSW	0.02	3	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:49 AM	60	60	60	55	43.8	2	WSW	0.03	4	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:50 AM	59.9	60	59.9	55	43.7	3	WSW	0.05	5	WSW	59.9	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:51 AM	59.9	59.9	59.9	55	43.7	1	WSW	0.02	3	WSW	59.9	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:52 AM	59.9	59.9	59.9	56	44.2	0	---	0	0	---	59.9	58.4	58.4	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:53 AM	59.8	59.9	59.8	56	44.1	2	WSW	0.03	3	WSW	59.8	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:54 AM	59.8	59.8	59.8	55	43.6	1	WSW	0.02	2	WSW	59.8	58.2	58.2	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:55 AM	59.7	59.8	59.7	56	44	3	WSW	0.05	4	WSW	59.7	58.2	58.2	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:56 AM	59.7	59.7	59.7	56	44	3	WSW	0.05	5	WSW	59.7	58.2	58.2	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:57 AM	59.6	59.7	59.6	56	43.9	3	WSW	0.05	4	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:58 AM	59.6	59.7	59.6	56	43.9	2	WSW	0.03	4	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:59 AM	59.6	59.6	59.6	56	43.9	2	WSW	0.03	4	WSW	59.6	58.1	58.1	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:00 AM	59.6	59.6	59.6	57	44.3	1	WSW	0.02	3	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:01 AM	59.6	59.6	59.6	57	44.3	2	SW	0.03	5	SW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:02 AM	59.6	59.6	59.6	57	44.3	1	SW	0.02	2	SW	59.6	58.1	58.1	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:03 AM	59.5	59.6	59.5	57	44.2	1	SW	0.02	4	SW	59.5	58	58	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:04 AM	59.5	59.5	59.5	58	44.7	2	SW	0.03	4	SW	59.5	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:05 AM	59.5	59.5	59.5	57	44.2	2	SW	0.03	4	SW	59.5	58	58	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:06 AM	59.5	59.5	59.5	57	44.2	1	SW	0.02	2	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:07 AM	59.5	59.5	59.5	58	44.7	2	SW	0.03	3	SW	59.5	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:08 AM	59.5	59.6	59.5	57	44.2	2	SW	0.03	3	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:09 AM	59.5	59.5	59.5	57	44.2	3	SW	0.05	4	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:10 AM	59.5	59.6	59.5	57	44.2	1	SW	0.02	2	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:11 AM	59.5	59.5	59.5	57	44.2	2	SW	0.03	3	SW	59.5	58	58	30.156	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:12 AM	59.5	59.5	59.5	56	43.8	1	SW	0.02	2	SW	59.5	58	58	30.156	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:13 AM	59.5	59.5	59.5	57	44.2	1	SW	0.02	3	SW	59.5	58	58	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:14 AM	59.5	59.5	59.5	58	44.7	0	SW	0	1	SW	59.5	58.1	58.1	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:15 AM	59.5	59.5	59.4	58	44.7	1	SW	0.02	2	SW	59.5	58.1	58.1	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:16 AM	59.4	59.5	59.4	58	44.6	0	SW	0	1	SW	59.4	58	58	30.156	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:17 AM	59.4	59.4	59.4	59	45.1	0	---	0	0	---	59.4	58	58	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:18 AM	59.3	59.4	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:19 AM	59.3	59.3	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:20 AM	59.2	59.3	59.2	58	44.4	0	SW	0	1	SW	59.2	57.8	57.8	30.155	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	23	1	100	1
9/25/2012	2:21 AM	59.2	59.2	59.2	58	44.4	0	SW	0	1	SW	59.2	57.8	57.8	30.153	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	23	1	100	1
9/25/2012	2:22 AM	59.1	59.2	59.1	58	44.3	0	---	0	0	---	59.1	57.7	57.7	30.153	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:23 AM	59.1	59.1	59.1	60	45.2	0	---	0	0	---	59.1	57.8	57.8	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:24 AM	59.1	59.1	59.1	59	44.8	0	SW	0	1	SW	59.1	57.7	57.7	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:25 AM	59	59.1	59	61	45.6	0	SW	0	1	SW	59	57.8	57.8	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:26 AM	58.9	59	58.9	60	45	1	SW	0.02	2	SW	58.9	57.6	57.6	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	24	1	100	1
9/25/2012	2:27 AM	58.9	58.9	58.9	61	45.5	0	SW	0	1	SW	58.9	57.7	57.7	30.154	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:28 AM	58.8	58.9	58.8	61	45.4	0	---	0	0	---	58.8	57.6	57.6	30.154	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	24	1	100	1
9/25/2012	2:29 AM	58.7	58.8	58.7	60	44.8	0	---	0	0	---	58.7	57.4	57.4	30.153	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:30 AM	58.7	58.7	58.7	61	45.3	0	SW	0	1	SW	58.7	57.5	57.5	30.153	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	24	1	100	1
9/25/2012	2:31 AM	58.7	58.7	58.7	62	45.7	0	SW	0	1	SW	58.7	57.5	57.5	30.152	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	22	1	95.7	1
9/25/2012	2:32 AM	58.6	58.7	58.6	62	45.6	0	SW	0	1	SW	58.6	57.4	57.4	30.154	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	23	1	100	1
9/25/2012	2:33 AM	58.5	58.6	58.5	61	45.1	0	SW	0	1	SW	58.5	57.3	57.3	30.154	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	24	1	100	1
9/25/2012	2:34 AM	58.5	58.5	58.5	62	45.5	0	SW	0	2	SW	58.5	57.3	57.3	30.154	0	0	0.005	0	52.4	46	32.2	50.7	8.85	0.0776	23	1	100	1
9/25/2012	2:35 AM	58.5	58.5	58.5	61	45.1	1	SW	0.02	3	SW	58.5	57.3	57.3	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	24	1	100	1
9/25/2012	2:36 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.154	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	23	1	100	1
9/25/2012	2:37 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	23	1	100	1
9/25/2012	2:38 AM	58.5	58.5	58.5	60	44.7	0	SW	0	1	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	24	1	100	1
9/25/2012	2:39 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	22	1	95.7	1
9/25/2012	2:40 AM	58.6	58.6	58.5	59	44.3	1	SW	0.02	2	SW	58.6	57.2	57.2	30.153	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:41 AM	58.6	58.6	58.6	59	44.3	1	SW	0.02	3	SW	58.6	57.2	57.2	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:42 AM	58.6	58.6	58.6	60	44.8	1	SW	0.02	2	SW	58.6	57.3	57.3	30.15	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:43 AM	58.7	58.7	58.6	60	44.8	1	SW	0.02	3	SW	58.7	57.4	57.4	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:44 AM	58.7	58.7	58.7	61	45.3	0	SW	0	2	SW	58.7	57.5	57.5	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:45 AM	58.7	58.7	58.7	60	44.8	1	SW	0.02	3	SW	58.7	57.4	57.4	30.151	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:46 AM	58.7	58.7	58.7	59	44.4	1	SW	0.02	3	SW	58.7	57.3	57.3	30.151	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:47 AM	58.7	58.7	58.7	59	44.4	1	SW	0.02	2	SW	58.7	57.3	57.3	30.153	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	24	1	100	1
9/25/2012	2:48 AM	58.8	58.8	58.7	59	44.5	1	SW	0.02	2	SW	58.8	57.4	57.4	30.153	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	22	1	95.7	1
9/25/2012	2:49 AM	58.8	58.8	58.8	59	44.5	1	SW	0.02	3	SW	58.8	57.4	57.4	30.155	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:50 AM	58.8	58.8	58.8	58	44	1	SW	0.02	2	SW	58.8	57.4	57.4	30.154	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	24	1	100	1
9/25/2012	2:51 AM	58.9	58.9	58.8	60	45	0	---	0	0	---	58.9	57.6	57.6	30.154	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:52 AM	58.8	58.9	58.8	59	44.5	1	SW	0.02	2	SW	58.8	57.4	57.4	30.156	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:53 AM	58.9	58.9	58.8	58	44.1	1	SW	0.02	3	SW	58.9	57.5	57.5	30.156	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	22	1	95.7	1
9/25/2012	2:54 AM	58.9	58.9	58.8	58	44.1	2	SW	0.03	3	SW	58.9	57.5	57.5	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:55 AM	58.8	58.9	58.8	58	44	2	SW	0.03	3	SW	58.8	57.4	57.4	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	24	1	100	1
9/25/2012	2:56 AM	58.9	58.9	58.8	57	43.7	4	SW	0.07	6	SW	58.9	57.4	57.4	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:57 AM	59	59	58.9	57	43.8	3	WSW	0.05	5	WSW	59	57.5	57.5	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	24	1	100	1
9/25/2012	2:58 AM	59	59	59	57	43.8	4	WSW	0.07	5	WSW	59	57.5	57.5	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	2:59 AM	59.1	59.1	59	57	43.9	1	WSW	0.02	2	WSW	59.1	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:00 AM	59.1	59.1	59.1	57	43.9	2	WSW	0.03	4	WSW	59.1	57.6	57.6	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:01 AM	59.1	59.1	59.1	56	43.4	1	WSW	0.02	2	WSW	59.1	57.6	57.6	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:02 AM	59.2	59.2	59.1	56	43.5	3	WSW	0.05	5	WSW	59.2	57.7	57.7	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:03 AM	59.2	59.2	59.2	56	43.5	3	WSW	0.05	4	WSW	59.2	57.7	57.7	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:04 AM	59.3	59.3	59.2	56	43.6	4	WSW	0.07	6	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:05 AM	59.3	59.3	59.2	56	43.6	2	SW	0.03	5	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	22	1	95.7	1
9/25/2012	3:06 AM	59.3	59.3	59.3	56	43.6	2	SW	0.03	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:07 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	3	SW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:08 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:09 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:10 AM	59.3	59.3	59.3	56	43.6	4	SW	0.07	7	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:11 AM	59.3	59.3	59.3	55	43.1	3	S	0.05	5	S	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:12 AM	59.3	59.3	59.3	55	43.1	2	S	0.03	5	SSW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	3:13 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	5	SW	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	22	1	95.7	1
9/25/2012	3:14 AM	59.2	59.3	59.2	55	43	1	SW	0.02	2	SW	59.2	57.6	57.6	30.151	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	3:15 AM	59.3	59.3	59.3	55	43.1

Meteorological Data
Equity IRM

9/25/2012	4:35 AM	57.8	57.8	57.8	62	44.9	1	WSW	0.02	3	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:36 AM	57.8	57.8	57.8	62	44.9	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.154	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:37 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	3	WSW	57.8	56.6	56.6	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	4:38 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:39 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:40 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:41 AM	57.9	57.9	57.9	61	44.5	3	WSW	0.05	6	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:42 AM	57.9	57.9	57.9	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	4:43 AM	57.9	57.9	57.9	61	44.5	1	WSW	0.02	2	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:44 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.157	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:45 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	4:46 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:47 AM	58	58	57.9	61	44.6	2	WSW	0.03	4	WSW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:48 AM	58	58	58	61	44.6	2	WSW	0.03	4	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:49 AM	58	58	58	61	44.6	1	WSW	0.02	3	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:50 AM	58	58	58	61	44.6	2	WSW	0.03	3	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	4:51 AM	58	58	58	61	44.6	3	SW	0.05	5	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:52 AM	58	58	58	61	44.6	2	SW	0.03	5	W	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:53 AM	58	58	58	62	45	2	SW	0.03	4	SW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:54 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:55 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:56 AM	58	58	58	61	44.6	2	SW	0.03	4	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:57 AM	58	58	58	61	44.6	1	SW	0.02	3	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:58 AM	58	58	58	62	45	1	SW	0.02	2	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:59 AM	58	58	58	62	45	2	SW	0.03	2	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:00 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:01 AM	58	58	58	61	44.6	3	SW	0.05	4	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:02 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:03 AM	58	58	58	61	44.6	1	SW	0.02	2	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:04 AM	58	58	58	61	44.6	0	SW	0	1	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:05 AM	58	58	58	60	44.2	1	SW	0.02	2	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:06 AM	58	58	58	61	44.6	1	SW	0.02	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:07 AM	58	58	58	60	44.2	2	SW	0.03	4	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:08 AM	58	58	58	60	44.2	0	SW	0	1	SW	58	56.7	56.7	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:09 AM	58	58	58	60	44.2	2	SW	0.03	3	SW	58	56.7	56.7	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:10 AM	58	58	58	59	43.7	1	SW	0.02	3	SW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:11 AM	58	58	58	60	44.2	1	SW	0.02	2	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:12 AM	58	58	57.9	59	43.7	1	SW	0.02	3	SW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:13 AM	57.9	57.9	57.9	58	43.2	4	W	0.07	6	SW	57.9	56.5	56.5	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:14 AM	58	58	58	58	43.3	2	SW	0.03	6	WSW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:15 AM	58	58	58	57	42.8	2	SW	0.03	4	SW	58	56.5	56.5	30.161	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:16 AM	58	58	58	58	43.3	4	SW	0.07	5	SW	58	56.6	56.6	30.162	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:17 AM	58	58	58	58	43.3	1	SW	0.02	3	SW	58	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:18 AM	58	58	58	57	42.8	3	SW	0.05	5	SW	58	56.5	56.5	30.162	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:19 AM	58	58.1	58	57	42.8	3	SW	0.05	7	WSW	58	56.5	56.5	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:20 AM	58.1	58.1	58	57	42.9	4	WSW	0.07	6	NW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:21 AM	58.1	58.1	58.1	57	42.9	4	WSW	0.07	6	WSW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:22 AM	58.1	58.1	58.1	56	42.5	3	WSW	0.05	5	WSW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:23 AM	58.2	58.2	58.1	57	43	2	WSW	0.03	6	WSW	58.2	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:24 AM	58.1	58.2	58.1	56	42.5	2	WSW	0.03	4	WSW	58.1	56.6	56.6	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:25 AM	58.2	58.2	58.2	56	42.6	1	WSW	0.02	3	WSW	58.2	56.7	56.7	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:26 AM	58.2	58.2	58.2	56	42.6	4	WSW	0.07	6	WSW	58.2	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:27 AM	58.2	58.2	58.2	55	42.1	2	WSW	0.03	3	WSW	58.2	56.6	56.6	30.166	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:28 AM	58.2	58.2	58.2	55	42.1	2	WSW	0.03	4	SW	58.2	56.6	56.6	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:29 AM	58.2	58.2	58.2	55	42.1	2	SW	0.03	4	SW	58.2	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:30 AM	58.2	58.2	58.2	55	42.1	3	SW	0.05	5	SW	58.2	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:31 AM	58.2	58.2	58.2	55	42.1	3	SSW	0.05	5	S	58.2	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:32 AM	58.2	58.3	58.2	54	41.6	4	SW	0.07	6	SSW	58.2	56.5	56.5	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:33 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	7	SW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:34 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	4	SSW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:35 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	6	W	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:36 AM	58.3	58.3	58.3	54	41.7	4	WSW	0.07	8	WSW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:37 AM	58.3	58.3	58.3	55	42.2	4	WSW	0.07	7	WSW	58.3	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:38 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	6	SW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:39 AM	58.3	58.3	58.3	54	41.7	5	SW	0.08	7	WNW	58	56.6	56.3	30.162	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:40 AM	58.3	58.3	58.3	54	41.7	3	WSW	0.05	6	WNW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:41 AM	58.3	58.3	58.3	54	41.7	5	WSW	0.08	8	WSW	58	56.6	56.3	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:42 AM	58.3	58.3	58.3	54	41.7	2	SSW	0.03	3	SSW	58.3	56.6	56.6	30.162	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:43 AM	58.3	58.3	58.3	54	41.7	3	SSW	0.05	5	SW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:44 AM	58.3	58.3	58.3	54	41.7	4	SW	0.07	5	SSE	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:45 AM	58.3	58.3	58.3	55	42.2	2	SW	0.03	5	SW	58.3	56.7	56.7	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:46 AM	58.3	58.3	58.3	54	41.7	0	SW	0	1	SW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:47 AM	58.2	58.3	58.2	54	41.6	1	SW	0.02	3	SW	58.2	56.5	56.5	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	22	1	95.7	1
9/25/2012	5:48 AM	58.3	58.3	58.2	54	41.7	5	WSW	0.08	8	WSW	58	56.6	56.3	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:49 AM	58.3	58.3	58.2	54	41.7	3	WSW	0.05	5	WNW	58.3	56.6	56.6	30.165	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	22	1	95.7	1
9/25/2012	5:50 AM	58.2	58.2	58.2	54	41.6	4	WSW	0.07	6	WSW	58.2	56.5	56.5	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	5:51 AM	58.2	58.2	58.2	55	42.1	3	WSW	0.05	6	WSW	58.2	56.6	56.6	30.165	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:52 AM	58.2	58.3	58.2	54	41.6	2	SW	0.03	6	SW	58.2	56.5	56.5	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:53 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	5	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	5:54 AM	58.2	58.3	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:55 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:56 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	3	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:57 AM	58.2	58.2	58.2	55	42.1	1	W	0.02	2	W	58.2	56.6	56.6	30.165	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:58 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	5:59 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:00 AM	58.2	58.2	58.2	55	42.1	4	WSW	0.07	6	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:01 AM	58.2	58.2	58.2	55	42.1	4	WSW	0.07	6	W	58.2	56.6	56.6	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:02 AM	58.2	58.3	58.2	55	42.1	4	WSW	0.07	7	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:03 AM	58.3	58.3	58.2	55	42.2	4	SW	0.07	6	SW	58.3	56.7	56.7	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:04 AM	58.3	58.3	58.3	55	42.2	3	SW	0.05	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:05 AM	58.3	58.3	58.3	55	42.2	2	SW	0.03	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:06 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	7	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:07 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	4	SW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:08 AM	58.3	58.4	58.3	56	42.7	5	WSW	0.08	6	SW	58	56.8	56.5	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:09 AM	58.3	58.3	58.3	56	42.7	3	WSW	0.05	6	WNW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:10 AM	58.3	58.4	58.3	56	42.7	3	W	0.05	5	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:11 AM	58.3	58.4	58.3	56	42.7	3	WSW	0.05	5	WSW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:12 AM	58.3	58.4	58.3	56	42.7	2	WSW	0.03	3	WSW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:13 AM	58.3	58.3	58.3	57	43.1	2	WSW	0.03	4	WSW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:14 AM	58.3	58.3	58.3	56	42.7	5	SW	0.08	9	WSW	58	56.8	56.5	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:15 AM	58.3	58.3	58.3	57	43.1	2	WSW	0.03	5	SW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:16

Meteorological Data
Equity IRM

9/25/2012	7:35 AM	59.8	59.8	59.8	60	45.9	3	WSW	0.05	6	SW	59.8	58.5	58.5	30.187	0	0	0.004	0	57.1	57	42	55.6	10.61	0.0768	23	1	100	1
9/25/2012	7:36 AM	60.2	60.2	59.9	60	46.3	5	WSW	0.08	9	W	60.2	58.9	58.9	30.186	0	0	0.003	0	57.4	57	42.3	55.9	10.6	0.0767	24	1	100	1
9/25/2012	7:37 AM	60.4	60.4	60.2	60	46.4	3	WSW	0.05	8	W	60.4	59.1	59.1	30.188	0	0	0.003	0	57.7	58	43	56.3	10.75	0.0767	23	1	100	1
9/25/2012	7:38 AM	60.5	60.5	60.5	59	46.1	4	S	0.07	6	WSW	60.5	59.2	59.2	30.188	0	0	0.003	0	58.1	57	42.9	56.6	10.59	0.0766	23	1	100	1
9/25/2012	7:39 AM	60.5	60.5	60.5	59	46.1	1	SSW	0.02	3	SSW	60.5	59.2	59.2	30.186	0	0	0.003	0	58.4	57	43.2	56.9	10.58	0.0766	24	1	100	1
9/25/2012	7:40 AM	60.5	60.6	60.5	59	46.1	5	WSW	0.08	12	W	60.5	59.2	59.2	30.188	0	0	0.003	0	58.7	57	43.5	57.2	10.58	0.0765	23	1	100	1
9/25/2012	7:41 AM	60.4	60.5	60.4	59	46	6	WSW	0.1	12	W	60.1	59.1	58.8	30.186	0	0	0.003	0	58.8	56	43.1	57.3	10.45	0.0765	24	1	100	1
9/25/2012	7:42 AM	60.3	60.4	60.3	59	45.9	6	SW	0.1	10	WSW	60	59	58.7	30.19	0	0	0.003	0	59.1	56	43.4	57.6	10.45	0.0765	23	1	100	1
9/25/2012	7:43 AM	60.1	60.2	60.1	60	46.2	3	WSW	0.05	5	W	60.1	58.8	58.8	30.188	0	0	0.003	0	59.4	56	43.7	57.9	10.45	0.0764	23	1	100	1
9/25/2012	7:44 AM	60	60.1	60	60	46.1	2	WSW	0.03	5	SW	60	58.7	58.7	30.188	0	0	0.003	0	59.7	55	43.5	58.1	10.26	0.0764	24	1	100	1
9/25/2012	7:45 AM	60.1	60.1	60	60	46.2	3	S	0.05	5	SSW	60.1	58.8	58.8	30.189	0	0	0.003	0	59.9	55	43.7	58.3	10.25	0.0763	23	1	100	1
9/25/2012	7:46 AM	60	60.1	60	61	46.5	3	WSW	0.05	6	SW	60	58.8	58.8	30.19	0	0	0.003	0	60.2	55	44	58.6	10.25	0.0763	24	1	100	1
9/25/2012	7:47 AM	60	60.1	60	60	46.1	4	W	0.07	7	W	60	58.7	58.7	30.189	0	0	0.003	0	60.5	55	44.2	58.9	10.25	0.0762	23	1	100	1
9/25/2012	7:48 AM	60	60	60	60	46.1	4	WSW	0.07	7	WSW	60	58.7	58.7	30.187	0	0	0.003	0	60.7	54	43.9	59	10.15	0.0762	24	1	100	1
9/25/2012	7:49 AM	60	60	60	61	46.5	2	WSW	0.03	4	WSW	60	58.8	58.8	30.189	0	0	0.003	0	61	54	44.2	59.3	10.15	0.0762	23	1	100	1
9/25/2012	7:50 AM	60	60	60	61	46.5	2	WSW	0.03	4	WSW	60	58.8	58.8	30.188	0	0	0.003	0	61.3	54	44.5	59.6	10.15	0.0761	23	1	100	1
9/25/2012	7:51 AM	60	60	60	61	46.5	3	WSW	0.05	4	WSW	60	58.8	58.8	30.19	0	0	0.003	0	61.4	54	44.6	59.8	10.15	0.0761	24	1	100	1
9/25/2012	7:52 AM	60.1	60.1	60	61	46.6	4	WSW	0.07	9	WSW	60.1	58.9	58.9	30.19	0	0	0.003	0	61.8	54	45	60.2	10.15	0.076	23	1	100	1
9/25/2012	7:53 AM	60	60.1	60	60	46.1	5	W	0.08	10	SW	60	58.7	58.7	30.19	0	0	0.003	0	61.9	53	44.6	60.2	9.95	0.076	24	1	100	1
9/25/2012	7:54 AM	60	60	60	61	46.5	6	WSW	0.1	9	WSW	59.6	58.8	58.4	30.19	0	0	0.003	0	62.2	53	44.9	60.6	9.95	0.076	23	1	100	1
9/25/2012	7:55 AM	59.9	60	59.9	61	46.4	4	SSW	0.07	6	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	62.5	53	45.1	60.9	9.95	0.0759	23	1	100	1
9/25/2012	7:56 AM	59.9	59.9	59.9	61	46.4	5	W	0.08	9	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	62.7	53	45.3	61.1	9.95	0.0759	24	1	100	1
9/25/2012	7:57 AM	59.9	59.9	59.9	61	46.4	5	WSW	0.08	8	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	63	53	45.6	61.4	9.95	0.0758	23	1	100	1
9/25/2012	7:58 AM	59.8	59.9	59.8	61	46.3	5	WSW	0.08	9	WSW	59.8	58.6	58.6	30.188	0	0	0.004	0	63.2	53	45.8	61.6	9.95	0.0758	24	1	100	1
9/25/2012	7:59 AM	59.8	59.8	59.8	62	46.7	4	WSW	0.07	7	WSW	59.8	58.7	58.7	30.189	0	0	0.004	0	63.3	52	45.4	61.6	9.75	0.0758	23	1	100	1
9/25/2012	8:00 AM	59.8	59.8	59.8	62	46.7	5	S	0.08	8	WSW	59.8	58.7	58.7	30.187	0	0	0.004	0	63.6	52	45.6	62	9.75	0.0757	23	1	100	1
9/25/2012	8:01 AM	59.8	59.8	59.8	62	46.7	5	W	0.08	8	W	59.8	58.7	58.7	30.188	0	0	0.004	0	63.8	52	45.8	62.2	9.75	0.0757	24	1	100	1
9/25/2012	8:02 AM	59.8	59.8	59.8	62	46.7	3	WSW	0.05	6	WSW	59.8	58.7	58.7	30.19	0	0	0.004	0	64	52	46	62.4	9.75	0.0757	23	1	100	1
9/25/2012	8:03 AM	59.8	59.8	59.8	62	46.7	1	WSW	0.02	3	WSW	59.8	58.7	58.7	30.192	0	0	0.004	0	64.1	52	46.1	62.5	9.75	0.0757	24	1	100	1
9/25/2012	8:04 AM	59.9	59.9	59.9	63	47.3	2	WSW	0.03	5	WSW	59.9	58.8	58.8	30.192	0	0	0.004	0	64.5	52	46.5	63	9.75	0.0756	23	1	100	1
9/25/2012	8:05 AM	60	60	59.9	62	46.9	3	WSW	0.05	5	WSW	60	58.9	58.9	30.189	0	0	0.003	0	64.6	52	46.6	63.1	9.75	0.0756	24	1	100	1
9/25/2012	8:06 AM	60	60	60	62	46.9	1	WSW	0.02	3	WSW	60	58.9	58.9	30.187	0	0	0.003	0	64.8	51	46.2	63.2	9.55	0.0755	23	1	100	1
9/25/2012	8:07 AM	60.1	60.1	60	62	47	4	WSW	0.07	6	WSW	60.1	59	59	30.186	0	0	0.003	0	64.9	51	46.3	63.3	9.55	0.0755	23	1	100	1
9/25/2012	8:08 AM	60.2	60.2	60.1	62	47.1	3	WSW	0.05	7	WSW	60.2	59.1	59.1	30.187	0	0	0.003	0	65.3	51	46.7	63.7	9.54	0.0755	24	1	100	1
9/25/2012	8:09 AM	60.3	60.3	60.2	63	47.6	4	WSW	0.07	8	SSW	60.3	59.3	59.3	30.185	0	0	0.003	0	65.4	51	46.8	63.8	9.54	0.0754	23	1	100	1
9/25/2012	8:10 AM	60.3	60.3	60.3	62	47.2	4	SW	0.07	7	WSW	60.3	59.2	59.2	30.185	0	0	0.003	0	65.6	51	47	64.1	9.54	0.0754	23	1	100	1
9/25/2012	8:11 AM	60.2	60.3	60.2	62	47.1	3	WSW	0.05	5	WSW	60.2	59.1	59.1	30.184	0	0	0.003	0	65.8	50	46.6	64.2	9.33	0.0754	23	1	100	1
9/25/2012	8:12 AM	60.3	60.3	60.2	62	47.2	3	SSW	0.05	5	WSW	60.3	59.2	59.2	30.187	0	0	0.003	0	66.1	50	46.9	64.5	9.33	0.0753	22	1	95.7	1
9/25/2012	8:13 AM	60.3	60.3	60.3	62	47.2	3	WSW	0.05	5	W	60.3	59.2	59.2	30.186	0	0	0.003	0	66.2	50	47	64.6	9.33	0.0753	23	1	100	1
9/25/2012	8:14 AM	60.3	60.3	60.3	62	47.2	4	WSW	0.07	6	WSW	60.3	59.2	59.2	30.186	0	0	0.003	0	66.4	50	47.2	64.9	9.32	0.0753	22	1	95.7	1
9/25/2012	8:15 AM	60.4	60.4	60.3	62	47.3	3	WSW	0.05	5	W	60.4	59.3	59.3	30.186	0	0	0.003	0	66.6	50	47.4	65.1	9.32	0.0752	23	1	100	1
9/25/2012	8:16 AM	60.4	60.4	60.4	62	47.3	4	SSE	0.07	6	SSW	60.4	59.3	59.3	30.187	0	0	0.003	0	66.7	50	47.5	65.2	9.32	0.0752	23	1	100	1
9/25/2012	8:17 AM	60.4	60.4	60.4	62	47.3	4	WSW	0.07	7	WSW	60.4	59.3	59.3	30.187	0	0	0.003	0	66.9	50	47.6	65.5	9.31	0.0752	23	1	100	1
9/25/2012	8:18 AM	60.5	60.5	60.4	63	47.8	5	WSW	0.08	9	W	60.5	59.5	59.5	30.187	0	0	0.003	0	67	49	47.2	65.5	9.11	0.0752	23	1	100	1
9/25/2012	8:19 AM	60.5	60.5	60.5	62	47.4	4	WSW	0.07	7	WSW	60.5	59.4	59.4	30.186	0	0	0.003	0	67.2	49	47.4	65.7	9.11	0.0752	22	1	95.7	1
9/25/2012	8:20 AM	60.5	60.5	60.5	63	47.8	3	WSW	0.05	7	WSW	60.5	59.5	59.5	30.187	0	0	0.003	0	67.4	49	47.6	65.9	9.1	0.0751	24	1	100	1
9/25/2012	8:21 AM	60.5	60.5	60.5	63	47.8	2	SW	0.03	5	SW	60.5	59.5	59.5	30.188	0	0	0.003	0	67.5	49	47.7	66.1	9.1	0.0751	22	1	95.7	1
9/25/2012	8:22 AM	60.5	60.5	60.5	63	47.8	4	WSW	0.07	6	WSW	60.5	59.5	59.5	30.186	0	0	0.003	0	67.7	49	47.8	66.3	9.1	0.0751	24	1	100	1
9/25/2012	8:23 AM	60.5	60.5	60.5	63	47.8	3	WSW	0.05	6	WSW	60.5	59.5	59.5	30.187	0	0	0.003	0	67.9	49	48	66.5	9.09	0.075	22	1	95.7	1
9/25/2012	8:24 AM	60.5	60.5	60.5	63	47.8	6	WSW	0.1	8	W	60.2	59.5	59.2	30.187	0	0	0.003	0	68	49	48.1	66.6	9.09	0.075	22	1	95.7	1
9/25/2012	8:25 AM	60.5	60.6	60.5	63	47.8	5	W	0.08	8	W	60.5	59.5	59.5	30.188	0	0	0.003	0	68.2	49	48.3	66.8	9.09	0.075	24	1	100	1
9/25/2012	8:26 AM	60.5	60.6	60.5	63	47.8	7	WSW	0.12	12	WSW	59.8	59.5	58.8	30.186	0	0	0.003	0	68.4	49	48.5	67	9.08	0.075	22	1	95.7	1
9/25/2012	8:27 AM	60.5	60.5	60.5	63	47.8	7	SW	0.12	10	WSW	59.8	59.5	58.8	30.189	0	0	0.003	0	68.5	49	48.6	67.1	9.08	0.0749	24	1	100	1
9/25/2012	8:28 AM	60.5	60.5	60.5	63	47.8	5	WSW	0.08	8	WSW	60.5	59.5	59.5	30.189	0	0	0.003	0	68.5	48	48	66.9	8.88	0.075	23	1	100	1
9/25/2012	8:29 AM	60.4	60.5	60.4	64	48.2	5	WSW	0.08	11	WSW	60.4	59.5	59.5	30.186	0	0	0.003	0	68.7	48	48.2	67.1	8.88	0.0749	24	1	100	1
9/25/2012	8:30 AM	60.5	60.5	60.4	64	48.3	4	SW	0.07	8	W	60.5	59.6	59.6	30.187	0	0	0.003	0	68.9	48	48.4	67.3	8.87	0.0749	23	1	100	1
9/25/2012	8:31 AM	60.5	60.5	60.5	64	48.3	3	WSW	0.05	7	W	60.5	59.6	59.6	30.187	0	0	0.003	0	68.9	48	48.4	67.3	8.87	0.0749	23	1	100	1
9/25/2012	8:32 AM	60.6	60.6	60.6	64	48.4	7	WSW	0.12	10	W	59.9	59.7	59	30.187	0	0	0.003	0	69	48	48.5	67.4	8.87	0.0749	24	1	100	1
9/25/2012	8:33 AM	60.6	60.6	60.6	64	48.4	3	SW	0.05	4	SW	60.6	59.7	59.7	30.189	0	0	0.003	0	69.2	48	48.7	67.5	8.87	0.0748	23	1	100	1
9/25/2012	8:34 AM	60.7	60.7	60.6	63	48	4	SSW	0.07	7	W	60.7	59.7	59.7	30.189	0	0	0.003	0	69.2	48	48.7	67.5	8.87	0.0748	24	1	100	1
9/25/2012	8:35 AM	60.7	60.7	60.7	64	48.4	4	WSW	0.07	6	W	60.7	59.8	59.8	30.189	0	0	0.003	0	69.4	48	48.9	67.7	8.86	0.0748	23	1	100	1
9/25/2012	8:36 AM	60.8	60.8	60.7	64	48.5	4	WNW	0.07	8	W	60.8	59.9	59.9	30.189	0	0	0.003	0	69.4	48	48.9	67.7	8.86	0.0748	23	1	100	1
9/25/2012	8:37 AM	60.9	60.9	60.8	64	48.6	4	WSW	0.07	6	WNW	60.9	60	60	30.188	0	0	0.003	0	69.6	48	49	67.8	8.86	0.0748	24	1	100	1
9/25/2012	8:38 AM	60.9	60.9	60.9	64	48.6	3	WSW	0.05	6	WSW	60.9	60	60	30.188	0	0	0.003	0	69.7	48	49.1	67.9	8.86	0.0748	23	1	100	1
9/25/2012	8:39 AM	61	61	60.9	64	48.7	3	WSW	0.05	4	WSW	61	60.1	60.1	30.19	0	0	0.003	0	69.7	47	48.6	67.8	8.76	0.0748	23	1	100	1
9/25/2012	8:40 AM	61.1	61.1	61	64	48.8	3	WSW	0.05	5	WSW	61.1	60.2	60.2	30.192	0	0	0.003	0	69.9	47	48.7	67.9	8.75	0.0748	23	1	100	1
9/25/2012	8:41 AM	61.2	61.2	61.1	64	48.9	2	N	0.03	4	NNW	61.2	60.3	60.3	30.193	0	0	0.003	0	70.1	47	48.9	68.1	8.75	0.0747	24	1	100	1
9/25/2012	8:42 AM	61.2	61.2	61.2	63	48.5	7	W	0.12	11	SW	60.7	60.3	59.8	30.193	0	0	0.003	0	70.2	47	49	68.3	8.75	0.0747	23	1	100	1
9/25/2012	8:43 AM	61.2	61.2	61.2	63	48.5	4	SW	0.07	7	W	61.2	60.3	60.3	30.193	0	0	0.003	0	70.2	47	49	68.3	8.75	0.0747	23	1	100	1
9/25/2012	8:44 AM	61.3	61.3	61.2	64	49	3	WNW	0.05	7	WNW	61.3	60.4	60.4	30.192	0	0	0.003	0	70.4	47	49.2	68.5	8.75	0.0747	24	1	100	1
9/25/2012	8:45 AM	61.3	61.3	61.3	63	48.6	4	WSW	0.07	6	SW	61.3	60.4	60.4	30.189	0	0	0.003	0	70.6	47	49.4	68.8	8.75	0.0746	23	1	100	1
9/25/2012	8:46 AM	61.3	61.3	61.3	63	48.6	6	WSW	0.1	9	WSW	61.2	60.4	60.3	30.191	0	0	0.003	0	70.7	47	49.5	68.9	8.75	0.0746	24	1	100	1
9/25/2012	8:47 AM	61.2	61.3	61.2	63	48.5	5	WSW	0.08	7	WSW	61.2	60.3	60.3	30.192	0	0	0.003	0	70.7	47	49.5	68.9	8.75	0.0746	23	1	100	1
9/25/2012	8:48 AM	61.2	61.2	61.2	63	48.5	6	WSW	0.1	9	WSW	61	60.3	60.1	30.189	0	0	0.003	0	70.9	46	49.1	69.1	8.63	0.0746	23	1	100	1
9/25/2012	8:49 AM	61.1	61.2	61.1	64	48.8	2	WSW	0.03	6	WSW	61.1	60.2	60.2	30.192	0	0	0.003	0	71.1	46	49.3	69.3	8.63	0.0746	24	1	100	1
9/25/2012	8:50 AM	61.2	61.2	61.1	65	49.3	3	WSW	0.05	6	W	61.2	60.4	60.4	30.192	0	0	0.003	0	71.1	46	49.3	69.3	8.63	0.0746	23	1	100	1
9/25/2012	8:51 AM	61.3	61.3	61.2	64	49	5	WSW	0.08	8	W	61.3	60.4	60.4	30.191	0	0	0.003	0	71.2	46	49.4	69.5	8.63	0.0745	24	1	100	1
9/25/2012	8:52 AM	61.3	61.3	61.3	64	49	4	WSW	0.07	7	SW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.4	46	49.5	69.8	8.62	0.0745	23	1	100	1
9/25/2012	8:53 AM	61.3	61.3	61.3	63	48.6	4	WSW	0.07	7	WSW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.4	46	49.5	69.8	8.62	0.0745	23	1	100	1
9/25/2012	8:54 AM	61.3	61.3	61.3	64	49	4	WSW	0.07	6	WSW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.6	46	49.7	70.1	8.62	0.0745	24	1	100	1
9/25/2012	8:55 AM	61.4	61.4	61.3	64	49.1	3	SW	0.05	7	WSW	61.4	60.6	60.6	30.193	0	0	0.002	0	71.6	46	49.7	70.1	8.62	0.0745	23	1	100	1
9/25/2012	8:56 AM	61.4	61.4	61.4	64	49.1	5	WSW	0.08	8	WSW	61.4	60.6	60.6	30.195	0	0	0.002	0	71.8	46	49.9	70.4	8.61	0.0745	23	1	100	1
9/25/2012	8:57 AM	61.4	61.4	61.4	63	48.7	6	W	0.1	9	WSW	61.3	60.5	60.4	30.195	0	0	0.002	0	71.9	46	50	70.6	8.61	0.0744	23	1	100	1
9/25/2012	8:58 AM	61.4	61.4	61.4	64	49.1	4	WSW	0.07	6	SW	61.4	60.6	60.6	30.198	0	0	0.002	0	71.9	46	50	70.6	8.61	0.0744	24	1	100	1
9/25/2012	8:59 AM	61.4	61.5	61.4	64	49.1	5	W	0.08	10	SW	61.4	60.6	60.6	30.197	0	0	0.002	0	72.1	46	50.2	70.8	8.61	0.0744	23	1	100	1
9/25/2012	9:00 AM	61.5	61.5	61.4	64	49.2	3	W	0.05	5	W	61.5	60.7	60.7	30.196	0	0	0.002	0	72.3	46	50.4	71.1	8.6	0.0744	23	1	100	1
9/25/2012	9:01 AM	61.6	61.6	61.5	64	49.3	2	W	0.03	6	N	61.6	60.8	60.8	30.195	0	0	0.002	0	72.3	46	50.4	71.1	8.6	0.0744	24	1	100	1
9/25/2012	9:02 AM	61.8	61.8	61.7	65	49.9	2	N	0.03	5	NW	61.8	61.1	61.1	30.197	0	0	0.002	0	72.4	46	50.4	71.3	8.6	0.0744	23	1	100	1
9/25/2012	9:03 AM	62	62	61.9	65	50.1	3	NW	0.05	4	NNW	62	61.3	61.3	30.198	0	0	0.002	0	72.4	46	50.4	71.3	8.6	0.0744	24	1	100	1
9/25/2012	9:04 AM	62.1	62.1	62	65	50.2	2	NNW	0.03	5	N	62.1	61.4	61.4	30.2	0	0	0.002	0	72.6	46	50.6	71.6	8.6	0.0743	23	1	100	1
9/25/2012	9:05 AM	62.1	62.2	62.1	65	50.2	1	NNW	0.02	3	NNW	62.1	61.4	61.4	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	22	1	95.7	1
9/25/2012	9:06 AM	62.2	62.2	62.1	65	50.3	3	NNW	0.05	4	W	62.2	61.5	61.5	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	24	1	100	1
9/25/2012	9:07 AM	62.3	62.3	62.2	64	50	2	WSW	0.03	3	WSW	62.3	61.5	61.5	30.199	0	0	0.002	0	73	46	51	72.2	8.59	0.0743	22	1	95.7	1
9/25/2012	9:08 AM	62.3	62.3	62.3	65	50.4	2	N	0.03	7	WNW	62.3	61.6	61.6	30.202	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	24	1	100	1
9/25/2012	9:09 AM	62.4	62.4	62.4	64	50.1	5	W	0.08	9	W	62.4	61.6	61.6	30.201	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	22	1	95.7	1
9/25/2012	9:10 AM	62.5	62.5	62.4	64	50.2	4	NNE	0.07	7	NNW	62.5	61.8	61.8	30.201	0	0	0.002	0	73.3	46	51.3	72.6	8.58	0.0742	24	1	100	1
9/25/2012	9:11 AM	62.4	62.4	62.4	63	49.6	4	W	0.07	6	NNW	62.4	61.5	61.5	30.202	0	0	0.002	0	73.5	46	51.4	72.8	8.58	0.0742	22	1	95.7	1
9/25/2012	9:12 AM	62.4	62.4	62.4	63	49.6	4	N	0.07	7	NNE	62.4	61.5	61.5	30.202	0	0	0.002	0	73.5	46	51.4	72.8	8.58	0.0742	23	1	100	1
9/25/2012	9:13 AM	62.3	62.4	62.3	63	49.5	4	WSW	0.07	6	W	62.3	61.4	61.4	30.204	0	0	0.002	0	73.6	45	50.9	72.9	8.45	0.0742	23	1	100	1
9/25/2012	9:14 AM	62.4	62.4	62.4	64	50.1	0	WSW	0	1	WSW	62.4	61.6	61.6	30.202	0	0	0.002	0	73.6	45	50.9	72.9	8.45	0.0742	23	1

Meteorological Data
Equity IRM

9/25/2012	10:35 AM	64.5	64.5	64.5	57	48.9	6	WSW	0.1	9	W	64.5	63.4	63.4	30.19	0	0	0	0	80.6	39	53.4	79.5	7.44	0.0731	24	1	100	1
9/25/2012	10:36 AM	64.5	64.5	64.5	57	48.9	3	SW	0.05	5	NNE	64.5	63.4	63.4	30.189	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	23	1	100	1
9/25/2012	10:37 AM	64.5	64.5	64.5	56	48.4	4	SW	0.07	8	W	64.5	63.3	63.3	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	24	1	100	1
9/25/2012	10:38 AM	64.4	64.5	64.4	56	48.4	6	WSW	0.1	13	W	64.4	63.2	63.2	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	23	1	100	1
9/25/2012	10:39 AM	64.3	64.4	64.3	56	48.3	4	SW	0.07	13	W	64.3	63.1	63.1	30.186	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:40 AM	64.3	64.3	64.3	57	48.7	3	S	0.05	4	S	64.3	63.2	63.2	30.184	0	0	0	0	81	38	53	79.8	7.25	0.0731	24	1	100	1
9/25/2012	10:41 AM	64.3	64.3	64.3	57	48.7	2	WSW	0.03	4	WSW	64.3	63.2	63.2	30.183	0	0	0	0	81	38	53	79.8	7.25	0.0731	23	1	100	1
9/25/2012	10:42 AM	64.4	64.4	64.3	58	49.3	1	WSW	0.02	3	WSW	64.4	63.4	63.4	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:43 AM	64.5	64.5	64.4	57	48.9	3	WSW	0.05	6	WSW	64.5	63.4	63.4	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:44 AM	64.7	64.7	64.6	56	48.6	3	WSW	0.05	6	WSW	64.7	63.5	63.5	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:45 AM	64.9	64.9	64.7	57	49.3	2	W	0.03	6	WNW	64.9	63.9	63.9	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:46 AM	65	65	64.9	56	48.9	4	WSW	0.07	7	WSW	65	63.9	63.9	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:47 AM	65	65	65	56	48.9	2	NW	0.03	5	NW	65	63.9	63.9	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:48 AM	65.1	65.1	65	56	49	2	SW	0.03	6	SW	65.1	64	64	30.182	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:49 AM	65.2	65.2	65.2	55	48.6	6	WSW	0.1	10	WSW	65.2	64	64	30.185	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:50 AM	65.2	65.3	65.2	54	48.1	5	WSW	0.08	10	WSW	65.2	63.9	63.9	30.182	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	22	1	95.7	1
9/25/2012	10:51 AM	65.2	65.2	65.2	55	48.6	4	W	0.07	6	W	65.2	64	64	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	22	1	95.7	1
9/25/2012	10:52 AM	65.1	65.2	65.1	54	48	5	W	0.08	9	WSW	65.1	63.8	63.8	30.184	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	24	1	100	1
9/25/2012	10:53 AM	65	65.1	65	54	47.9	6	WSW	0.1	8	W	65	63.7	63.7	30.183	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	22	1	95.7	1
9/25/2012	10:54 AM	64.9	65	64.9	54	47.9	5	W	0.08	9	SW	64.9	63.6	63.6	30.183	0	0	0	0	80.6	37	51.9	79.3	7.14	0.0731	24	1	100	1
9/25/2012	10:55 AM	64.9	64.9	64.9	54	47.9	6	W	0.1	10	WSW	64.9	63.6	63.6	30.184	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	22	1	95.7	1
9/25/2012	10:56 AM	64.8	64.9	64.8	55	48.2	3	SSW	0.05	4	S	64.8	63.6	63.6	30.182	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	24	1	100	1
9/25/2012	10:57 AM	64.9	64.9	64.8	55	48.3	5	SSW	0.08	9	W	64.9	63.7	63.7	30.18	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	22	1	95.7	1
9/25/2012	10:58 AM	64.9	64.9	64.9	54	47.9	5	WSW	0.08	7	SW	64.9	63.6	63.6	30.182	0	0	0	0	80.3	37	51.7	79	7.14	0.0732	23	1	100	1
9/25/2012	10:59 AM	65	65	65	54	47.9	4	W	0.07	7	WNW	65	63.7	63.7	30.181	0	0	0	0	80.3	37	51.7	79	7.14	0.0732	23	1	100	1
9/25/2012	11:00 AM	65.1	65.1	65	55	48.5	3	W	0.05	7	WSW	65.1	63.9	63.9	30.181	0	0	0	0	80.1	37	51.5	78.8	7.15	0.0732	22	1	95.7	1
9/25/2012	11:01 AM	65.3	65.3	65.2	54	48.2	4	WSW	0.07	7	WSW	65.3	64	64	30.18	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	24	1	100	1
9/25/2012	11:02 AM	65.4	65.4	65.3	54	48.3	5	WSW	0.08	7	NW	65.4	64.1	64.1	30.18	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	22	1	95.7	1
9/25/2012	11:03 AM	65.4	65.4	65.4	54	48.3	5	WSW	0.08	9	NW	65.4	64.1	64.1	30.179	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:04 AM	65.6	65.6	65.5	54	48.5	3	N	0.05	6	WNW	65.6	64.4	64.4	30.179	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:05 AM	65.8	65.8	65.6	55	49.2	2	W	0.03	5	NNW	65.8	64.7	64.7	30.18	0	0	0	0.001	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:06 AM	65.9	65.9	65.7	54	48.8	2	WSW	0.03	5	WSW	65.9	64.7	64.7	30.179	0	0	0	0.001	80.1	38	52.2	78.9	7.25	0.0732	24	1	100	1
9/25/2012	11:07 AM	66.1	66.1	65.9	54	49	2	NW	0.03	5	W	66.1	64.9	64.9	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	23	1	100	1
9/25/2012	11:08 AM	66.2	66.2	66.1	52	48	4	WSW	0.07	7	WSW	66.2	64.8	64.8	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	24	1	100	1
9/25/2012	11:09 AM	66.2	66.2	66.2	53	48.6	4	W	0.07	6	W	66.2	64.9	64.9	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	22	1	95.7	1
9/25/2012	11:10 AM	66.3	66.3	66.2	52	48.1	3	NW	0.05	6	W	66.3	65	65	30.176	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:11 AM	66.4	66.4	66.3	51	47.7	4	SSW	0.07	7	W	66.4	65	65	30.178	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:12 AM	66.5	66.5	66.4	50	47.3	5	WSW	0.08	8	W	66.5	65	65	30.174	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:13 AM	66.5	66.5	66.5	51	47.8	3	WSW	0.05	5	WNW	66.5	65.1	65.1	30.176	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:14 AM	66.6	66.6	66.5	51	47.9	4	W	0.07	6	WSW	66.6	65.2	65.2	30.174	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:15 AM	66.7	66.7	66.6	52	48.5	5	WSW	0.08	11	WSW	66.7	65.4	65.4	30.173	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:16 AM	66.7	66.7	66.7	50	47.5	6	WSW	0.1	9	WSW	66.7	65.2	65.2	30.175	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:17 AM	66.6	66.7	66.6	51	47.9	4	SW	0.07	6	W	66.6	65.2	65.2	30.173	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:18 AM	66.7	66.7	66.6	50	47.5	3	SW	0.05	5	SW	66.7	65.2	65.2	30.174	0	0	0	0.001	80.6	37	51.9	79.3	7.14	0.0731	24	1	100	1
9/25/2012	11:19 AM	66.7	66.7	66.7	51	48	5	W	0.08	8	SW	66.7	65.3	65.3	30.172	0	0	0	0.001	80.6	37	51.9	79.3	7.14	0.0731	23	1	100	1
9/25/2012	11:20 AM	66.7	66.7	66.7	51	48	5	N	0.08	9	NW	66.7	65.3	65.3	30.173	0	0	0	0.001	80.8	37	52.1	79.5	7.13	0.0731	23	1	100	1
9/25/2012	11:21 AM	66.8	66.8	66.7	50	47.6	5	WSW	0.08	8	WSW	66.8	65.4	65.4	30.174	0	0	0	0.001	80.8	36	51.4	79.4	6.92	0.0731	23	1	100	1
9/25/2012	11:22 AM	66.7	66.8	66.7	50	47.5	4	WNW	0.07	9	NW	66.7	65.2	65.2	30.174	0	0	0	0.001	81	36	51.5	79.6	6.91	0.0731	23	1	100	1
9/25/2012	11:23 AM	66.8	66.8	66.8	51	48.1	4	WSW	0.07	7	WSW	66.8	65.5	65.5	30.173	0	0	0	0.001	81	37	52.3	79.7	7.13	0.0731	24	1	100	1
9/25/2012	11:24 AM	66.8	66.8	66.7	50	47.6	3	WNW	0.05	5	WNW	66.8	65.4	65.4	30.173	0	0	0	0.001	81.2	37	52.4	79.9	7.13	0.073	23	1	100	1
9/25/2012	11:25 AM	66.8	66.8	66.8	50	47.6	2	WSW	0.03	4	WSW	66.8	65.4	65.4	30.171	0	0	0	0.001	81.2	37	52.4	79.9	7.13	0.073	24	1	100	1
9/25/2012	11:26 AM	66.9	66.9	66.8	50	47.6	3	SW	0.05	5	W	66.9	65.5	65.5	30.172	0	0	0	0.001	81.4	37	52.6	80.2	7.12	0.073	23	1	100	1
9/25/2012	11:27 AM	66.9	66.9	66.9	50	47.6	3	W	0.05	5	SW	66.9	65.5	65.5	30.17	0	0	0	0.001	81.6	37	52.8	80.4	7.12	0.0729	23	1	100	1
9/25/2012	11:28 AM	67	67	66.9	51	48.3	4	SW	0.07	5	NNW	67	65.7	65.7	30.17	0	0	0	0.001	81.6	37	52.8	80.4	7.12	0.0729	24	1	100	1
9/25/2012	11:29 AM	67	67	67	51	48.3	4	WNW	0.07	5	SSW	67	65.7	65.7	30.17	0	0	0	0.001	81.8	37	53	80.7	7.11	0.0729	23	1	100	1
9/25/2012	11:30 AM	67.1	67.1	67	51	48.4	3	WNW	0.05	5	WSW	67.1	65.8	65.8	30.166	0	0	0	0.001	82	37	53.2	80.9	7.11	0.0729	24	1	100	1
9/25/2012	11:31 AM	67.1	67.1	67.1	51	48.4	3	SW	0.05	5	SW	67.1	65.8	65.8	30.168	0	0	0	0.001	82.1	37	53.2	81.1	7.11	0.0729	23	1	100	1
9/25/2012	11:32 AM	67.2	67.2	67.2	50	47.9	3	NW	0.05	5	NW	67.2	65.8	65.8	30.167	0	0	0	0.002	82.3	37	53.4	81.3	7.1	0.0728	23	1	100	1
9/25/2012	11:33 AM	67.3	67.3	67.2	50	48	3	NNE	0.05	7	WNW	67.3	65.9	65.9	30.166	0	0	0	0.002	82.3	36	52.7	81.2	6.86	0.0728	24	1	100	1
9/25/2012	11:34 AM	67.4	67.4	67.3	51	48.6	3	WSW	0.05	7	NNW	67.4	66.1	66.1	30.167	0	0	0	0.002	82.5	37	53.6	81.6	7.1	0.0728	23	1	100	1
9/25/2012	11:35 AM	67.6	67.6	67.4	51	48.8	2	SW	0.03	6	WNW	67.6	66.4	66.4	30.164	0	0	0	0.002	82.7	37	53.8	81.8	7.1	0.0727	24	1	100	1
9/25/2012	11:36 AM	67.6	67.6	67.6	50	48.3	4	WNW	0.07	7	W	67.6	66.3	66.3	30.165	0	0	0	0.002	82.9	36	53.2	81.9	6.83	0.0727	23	1	100	1
9/25/2012	11:37 AM	67.7	67.7	67.6	50	48.4	3	SSW	0.05	6	NNE	67.7	66.4	66.4	30.165	0	0	0	0.002	82.9	36	53.2	81.9	6.83	0.0727	24	1	100	1
9/25/2012	11:38 AM	67.8	67.8	67.7	50	48.5	3	W	0.05	5	W	67.8	66.5	66.5	30.167	0	0	0	0.002	83.1	36	53.4	82.1	6.83	0.0727	22	1	95.7	1
9/25/2012	11:39 AM	67.8	67.8	67.7	49	47.9	4	WSW	0.07	8	SW	67.8	66.4	66.4	30.166	0	0	0	0.002	83.3	36	53.6	82.4	6.82	0.0727	23	1	100	1
9/25/2012	11:40 AM	67.8	67.8	67.8	50	48.5	3	SW	0.05	4	WNW	67.8	66.5	66.5	30.167	0	0	0	0.002	83.3	36	53.6	82.4	6.82	0.0727	23	1	100	1
9/25/2012	11:41 AM	67.8	67.8	67.8	49	47.9	2	WSW	0.03	4	WSW	67.8	66.4	66.4	30.166	0	0	0	0.002	83.5	36	53.7	82.7	6.81	0.0726	23	1	100	1
9/25/2012	11:42 AM	67.8	67.8	67.8	47	46.8	3	SW	0.05	4	SW	67.8	66.2	66.2	30.162	0	0	0	0.002	83.5	36	53.7	82.7	6.81	0.0726	23	1	100	1
9/25/2012	11:43 AM	67.9	67.9	67.8	48	47.5	4	WSW	0.07	6	WSW	67.9	66.4	66.4	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	22	1	95.7	1
9/25/2012	11:44 AM	67.9	67.9	67.9	48	47.5	2	WSW	0.03	4	WSW	67.9	66.4	66.4	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	23	1	100	1
9/25/2012	11:45 AM	68	68	67.9	48	47.6	3	NW	0.05	7	NW	68	66.5	66.5	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	23	1	100	1
9/25/2012	11:46 AM	68.1	68.1	68	50	48.8	3	NNW	0.05	6	NNW	68.1	66.8	66.8	30.163	0	0	0	0.002	83.9	35	53.3	83.2	6.69	0.0726	23	1	100	1
9/25/2012	11:47 AM	68.2	68.2	68.1	48	47.8	4	SW	0.07	7	N	68.2	66.7	66.7	30.164	0	0	0	0.002	83.9	35	53.3	83.2	6.69	0.0726	22	1	95.7	1
9/25/2012	11:48 AM	68.3	68.3	68.2	48	47.8	4	N	0.07	5	N	68.3	66.8	66.8	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:49 AM	68.4	68.4	68.3	48	47.9	1	N	0.02	3	NNE	68.4	66.9	66.9	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:50 AM	68.5	68.5	68.4	48	48	4	W	0.07	6	W	68.5	66.9	66.9	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:51 AM	68.5	68.5	68.5	48	48	1	SW	0.02	3	SW	68.5	66.9	66.9	30.166	0	0	0	0.002	84.3	35	53.7	83.6	6.68	0.0725	22	1	95.7	1
9/25/2012	11:52 AM	68.7	68.7	68.5	49	48.8	2	NE	0.03	4	NE	68.7	67.2	67.2	30.165	0	0	0	0.003	84.3	35	53.7	83.6	6.68	0.0725	24	1	100	1
9/25/2012	11:53 AM	68.9	68.9	68.7	48	48.4	3	NNW	0.05	9	WSW	68.9	67.3	67.3	30.165	0	0	0	0.003	84.5	35	53.8	83.8	6.67	0.0725	23	1	100	1
9/25/2012	11:54 AM	68.9	68.9	68.9	47	47.8	5	W	0.08	8	W	68.9	67.2	67.2	30.166	0	0	0	0.003	84.5	35	53.8	83.8	6.67	0.0725	24	1	100	1
9/25/2012	11:55 AM	68.9	69	68.9	47	47.8	4	SW	0.07	7	WSW	68.9	67.2	67.2	30.165	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:56 AM	69	69	68.9	47	47.9	3	SW	0.05	5	WNW	69	67.3	67.3	30.166	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:57 AM	69	69	69	47	47.9	2	SSW	0.03	5	SSW	69	67.3	67.3	30.166	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:58 AM	69	69	69	47	47.9	3	SW	0.05	6	SW	69	67.3	67.3	30.166	0	0	0	0.003	84.9	35	54.2	84.1	6.65	0.0724	23	1	100	1
9/25/2012	11:59 AM	69.1	69.1	69.1	47	48	3	WSW	0.05	7	SW	69.1	67.4	67.4	30.166	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	12:00 PM	69.2	69.2	69.1	47	48.1	4	W	0.07	11	WNW	69.2	67.4	67.4	30.167	0	0	0	0.003	84.9	35	54.2	84.1	6.65	0.0724	23	1	100	1
9/25/2012	12:01 PM	69.2	69.2	69.2	48	48.7	4	SW	0.07	8	WSW	69.2	67.5	67.5	30.165	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	12:02 PM	69.2	69.2	69.2	46	47.5	5	W	0.08	7	W	69.2	67.3	67.3	30.163	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	23	1	100	1
9/25/2012	12:03 PM	69.2	69.2	69.2	47	48.1	6	WSW	0.1	10	W	69.2	67.4	67.4	30.166	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	23	1	100	1
9/25/2012	12:04 PM	69.1	69.1	69.1	46	47.4	4	NE	0.07	10	WNW	69.1	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:05 PM	69.1	69.1	69	47	48	3	NNE	0.05	5	NNW	69.1	67.4	67.4	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:06 PM	69.1	69.1	69.1	47	48	4	WSW	0.07	5	NNW	69.1	67.4	67.4	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:07 PM	69.2	69.2	69.1	46	47.5	4	SSW	0.07	8	SW	69.2	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:08 PM	69.3	69.3	69.2	47	48.2	3	ENE	0.05	7	N	69.3	67.5	67.5	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:09 PM	69.5	69.5	69.3	49	49.5	2	NE	0.03	4	NE	69.5	67.9	67.9	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:10 PM	69.6	69.6	69.5	49	49.6	5	SW	0.08	8	W	69.6	67.9	67.9	30.161	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:11 PM	69.6	69.6	69.6	49	49.6	5	WSW	0.08	8	W	69.6	67.9	67.9	30.161	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:12 PM	69.4	69.5	69.4	50	49.9	3	WSW	0.05	5	WSW	69.4	67.9	67.9	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:13 PM	69.5	69.5	69.4	50	50	6	SSW	0.1	8	SW	69.5	67.9	67.9	30.161	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	12:14 PM	69.5	69.5	69.5	48	48.9	6	S	0.1	9	SSE	69.5	67.8	67.8	30.161	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	12:15 PM	69.6	69.6	69.5	48	49	4	S

Meteorological Data
Equity IRM

9/25/2012	1:35 PM	71.9	71.9	71.8	47	50.6	2	WSW	0.03	6	S	71.9	70.6	70.6	30.152	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	24	1	100	1
9/25/2012	1:36 PM	72	72	72	46	50.1	5	SSW	0.08	9	S	72	70.7	70.7	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:37 PM	72.1	72.1	72.1	45	49.6	6	SW	0.1	8	SSW	72.1	70.8	70.8	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:38 PM	72.1	72.1	72.1	45	49.6	5	WSW	0.08	10	NNW	72.1	70.8	70.8	30.158	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	1:39 PM	72.2	72.2	72.1	45	49.7	4	SW	0.07	6	SW	72.2	70.9	70.9	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:40 PM	72.1	72.2	72.1	44	49	7	WSW	0.12	15	WNW	72.1	70.7	70.7	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	24	1	100	1
9/25/2012	1:41 PM	72	72.1	72	44	48.9	7	W	0.12	12	WNW	72	70.5	70.5	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:42 PM	71.9	72	71.9	44	48.8	7	WSW	0.12	13	WSW	71.9	70.4	70.4	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:43 PM	71.6	71.9	71.6	43	47.9	10	WSW	0.17	17	WSW	69.5	69.8	67.7	30.151	0	0	0	0.005	84.7	33	52.4	83.5	6.36	0.0725	24	1	100	1
9/25/2012	1:44 PM	71.5	71.6	71.5	44	48.4	6	W	0.1	17	WSW	71.5	69.8	69.8	30.151	0	0	0	0.005	84.5	33	52.2	83.3	6.37	0.0725	23	1	100	1
9/25/2012	1:45 PM	71.6	71.6	71.5	44	48.5	5	S	0.08	9	WSW	71.6	69.9	69.9	30.154	0	0	0	0.005	84.5	33	52.2	83.3	6.37	0.0725	24	1	100	1
9/25/2012	1:46 PM	71.7	71.7	71.6	44	48.6	6	W	0.1	10	WNW	71.7	70	70	30.155	0	0	0	0.005	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/25/2012	1:47 PM	71.7	71.7	71.7	43	48	8	WSW	0.13	14	WSW	71.2	69.9	69.4	30.155	0	0	0	0.005	84.3	34	52.9	83.4	6.48	0.0725	24	1	100	1
9/25/2012	1:48 PM	71.7	71.7	71.7	43	48	4	WSW	0.07	7	WNW	71.7	69.9	69.9	30.154	0	0	0	0.005	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/25/2012	1:49 PM	71.8	71.8	71.7	44	48.7	5	S	0.08	12	WNW	71.8	70.2	70.2	30.151	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/25/2012	1:50 PM	71.9	71.9	71.8	43	48.2	4	SE	0.07	8	SSE	71.9	70.3	70.3	30.15	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/25/2012	1:51 PM	72	72	71.9	43	48.3	5	S	0.08	10	SW	72	70.4	70.4	30.151	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/25/2012	1:52 PM	72.1	72.1	72	44	49	3	S	0.05	5	SE	72.1	70.7	70.7	30.151	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/25/2012	1:53 PM	72.1	72.1	72.1	43	48.4	8	WSW	0.13	16	W	71.6	70.6	70.1	30.153	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/25/2012	1:54 PM	72	72.1	72	43	48.3	7	SW	0.12	14	SW	72	70.4	70.4	30.149	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	22	1	95.7	1
9/25/2012	1:55 PM	72	72	72	44	48.9	7	W	0.12	11	W	72	70.5	70.5	30.151	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/25/2012	1:56 PM	71.9	72	71.9	44	48.8	7	WSW	0.12	10	W	71.9	70.4	70.4	30.15	0	0	0	0.005	83.7	33	51.5	82.5	6.4	0.0727	21	1	91.3	1
9/25/2012	1:57 PM	72	72	71.9	43	48.3	8	WNW	0.13	13	W	71.5	70.4	69.9	30.148	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	24	1	100	1
9/25/2012	1:58 PM	72	72	71.9	44	48.9	5	SSW	0.08	10	W	72	70.5	70.5	30.147	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	22	1	95.7	1
9/25/2012	1:59 PM	72.1	72.1	72	44	49	6	S	0.1	11	W	72.1	70.7	70.7	30.148	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	23	1	100	1
9/25/2012	2:00 PM	72.2	72.2	72.1	44	49.1	7	WSW	0.12	10	W	72.2	70.8	70.8	30.144	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	22	1	95.7	1
9/25/2012	2:01 PM	72.2	72.2	72.1	43	48.5	6	WSW	0.1	8	SW	72.2	70.7	70.7	30.146	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0727	22	1	95.7	1
9/25/2012	2:02 PM	72.3	72.3	72.2	44	49.2	4	S	0.07	9	SSE	72.3	71	71	30.144	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	24	1	100	1
9/25/2012	2:03 PM	72.4	72.4	72.3	44	49.3	5	SSW	0.08	10	W	72.4	71.1	71.1	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	22	1	95.7	1
9/25/2012	2:04 PM	72.6	72.6	72.4	43	48.8	7	SSE	0.12	11	SW	72.6	71.3	71.3	30.142	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	24	1	100	1
9/25/2012	2:05 PM	72.7	72.7	72.6	43	48.9	7	SSE	0.12	11	SSE	72.7	71.5	71.5	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	22	1	95.7	1
9/25/2012	2:06 PM	72.9	72.9	72.8	42	48.5	6	SSE	0.1	13	WSW	72.9	71.7	71.7	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	23	1	100	1
9/25/2012	2:07 PM	72.9	72.9	72.9	42	48.5	8	S	0.13	13	S	72.4	71.7	71.2	30.141	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	23	1	100	1
9/25/2012	2:08 PM	72.8	72.9	72.8	42	48.4	8	SSW	0.13	13	SSW	72.3	71.5	71	30.141	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	23	1	100	1
9/25/2012	2:09 PM	72.7	72.8	72.7	42	48.3	7	SW	0.12	17	SSE	72.7	71.4	71.4	30.143	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	24	1	100	1
9/25/2012	2:10 PM	72.6	72.7	72.6	42	48.2	8	SSE	0.13	13	WSW	72.1	71.2	70.7	30.142	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	23	1	100	1
9/25/2012	2:11 PM	72.5	72.6	72.5	42	48.1	7	SSE	0.12	13	W	72.5	71.1	71.1	30.145	0	0	0	0.005	83.3	33	51.2	81.9	6.42	0.0727	23	1	100	1
9/25/2012	2:12 PM	72.5	72.5	72.5	43	48.7	5	SSW	0.08	8	SW	72.5	71.2	71.2	30.143	0	0	0	0.005	83.1	33	51	81.6	6.43	0.0727	24	1	100	1
9/25/2012	2:13 PM	72.5	72.5	72.5	43	48.7	8	S	0.13	12	S	72	71.2	70.7	30.141	0	0	0	0.005	83.1	34	51.8	81.8	6.53	0.0727	23	1	100	1
9/25/2012	2:14 PM	72.5	72.5	72.5	43	48.7	4	WSW	0.07	7	WNW	72.5	71.2	71.2	30.145	0	0	0	0.005	83.1	34	51.8	81.8	6.53	0.0727	24	1	100	1
9/25/2012	2:15 PM	72.5	72.5	72.5	43	48.7	9	W	0.15	14	SSW	71.1	71.2	69.8	30.143	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:16 PM	72.4	72.5	72.4	44	49.3	6	W	0.1	11	NW	72.4	71.1	71.1	30.145	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	24	1	100	1
9/25/2012	2:17 PM	72.5	72.5	72.4	44	49.3	4	SSW	0.07	7	W	72.5	71.3	71.3	30.143	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:18 PM	72.6	72.6	72.5	45	50	5	WNW	0.08	9	WNW	72.6	71.5	71.5	30.142	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:19 PM	72.6	72.6	72.6	44	49.4	5	WSW	0.08	9	WSW	72.6	71.4	71.4	30.141	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	24	1	100	1
9/25/2012	2:20 PM	72.6	72.6	72.6	43	48.8	8	WSW	0.13	12	WSW	72.1	71.3	70.8	30.138	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:21 PM	72.5	72.5	72.5	44	49.3	5	SSW	0.08	8	WSW	72.5	71.3	71.3	30.141	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	24	1	100	1
9/25/2012	2:22 PM	72.5	72.5	72.4	44	49.3	4	WNW	0.07	6	WNW	72.5	71.3	71.3	30.142	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:23 PM	72.6	72.6	72.5	45	50	6	WNW	0.1	9	S	72.6	71.5	71.5	30.142	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:24 PM	72.6	72.7	72.6	44	49.4	4	S	0.07	9	SW	72.6	71.4	71.4	30.145	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	24	1	100	1
9/25/2012	2:25 PM	72.8	72.8	72.6	44	49.6	6	SSW	0.1	11	S	72.8	71.7	71.7	30.144	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	23	1	100	1
9/25/2012	2:26 PM	72.9	72.9	72.8	45	50.3	5	S	0.08	10	SSW	72.9	71.9	71.9	30.141	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	24	1	100	1
9/25/2012	2:27 PM	73.1	73.1	73	44	49.9	8	SSE	0.13	16	SSE	72.6	72.2	71.7	30.144	0	0	0	0.006	82.5	36	52.9	81.4	6.85	0.0728	23	1	100	1
9/25/2012	2:28 PM	73.2	73.2	73.1	44	50	6	WSW	0.1	11	WSW	73.2	72.3	72.3	30.142	0	0	0	0.006	82.5	36	52.9	81.4	6.85	0.0728	23	1	100	1
9/25/2012	8:06 PM	67.7	67.7	67.6	63	54.6	6	S	0.1	15	WSW	67.7	67.6	67.6	30.142	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0754	24	1	100	1
9/25/2012	8:07 PM	67.6	67.6	67.6	63	54.6	4	WNW	0.07	5	SW	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:08 PM	67.6	67.6	67.6	63	54.6	5	SSE	0.08	9	S	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/25/2012	8:09 PM	67.6	67.6	67.6	63	54.6	4	SSE	0.07	8	NNW	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:10 PM	67.6	67.6	67.6	63	54.6	3	W	0.05	5	WNW	67.6	67.5	67.5	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:11 PM	67.5	67.6	67.5	63	54.5	3	ESE	0.05	5	SSE	67.5	67.4	67.4	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:12 PM	67.5	67.5	67.5	63	54.5	4	SW	0.07	8	S	67.5	67.4	67.4	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	22	1	95.7	1
9/25/2012	8:13 PM	67.5	67.5	67.5	64	54.9	4	S	0.07	6	SW	67.5	67.5	67.5	30.14	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/25/2012	8:14 PM	67.5	67.5	67.5	64	54.9	4	S	0.07	6	WSW	67.5	67.5	67.5	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:15 PM	67.4	67.5	67.4	63	54.4	4	SSW	0.07	7	S	67.4	67.3	67.3	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:16 PM	67.4	67.5	67.4	64	54.8	4	SSW	0.07	8	WSW	67.4	67.4	67.4	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:17 PM	67.4	67.4	67.4	64	54.8	3	W	0.05	7	SSE	67.4	67.4	67.4	30.141	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:18 PM	67.4	67.4	67.4	64	54.8	4	SSW	0.07	7	W	67.4	67.4	67.4	30.141	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:19 PM	67.4	67.4	67.4	64	54.8	6	W	0.1	10	SSE	67.4	67.4	67.4	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:20 PM	67.3	67.4	67.3	64	54.7	7	S	0.12	14	SW	67.3	67.3	67.3	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:21 PM	67.3	67.3	67.3	64	54.7	3	WSW	0.05	6	WSW	67.3	67.3	67.3	30.141	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:22 PM	67.3	67.3	67.3	64	54.7	6	SSW	0.1	10	SSW	67.3	67.3	67.3	30.145	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	8:23 PM	67.2	67.3	67.2	64	54.6	9	SSW	0.15	13	SSE	65.9	67.1	65.8	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:24 PM	67.3	67.3	67.2	64	54.7	6	SE	0.1	10	WSW	67.3	67.3	67.3	30.145	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:25 PM	67.2	67.3	67.2	64	54.6	4	SSE	0.07	7	WSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	8:26 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:27 PM	67.2	67.2	67.2	64	54.6	5	SSW	0.08	8	SSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:28 PM	67.2	67.2	67.2	64	54.6	5	SW	0.08	10	WSW	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	22	1	95.7	1
9/25/2012	8:29 PM	67.2	67.2	67.2	64	54.6	4	S	0.07	9	ESE	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:30 PM	67.2	67.2	67.2	64	54.6	6	W	0.1	13	W	67.2	67.1	67.1	30.142	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:31 PM	67.2	67.2	67.2	64	54.6	6	SSW	0.1	10	WSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:32 PM	67.2	67.2	67.2	64	54.6	3	S	0.05	8	S	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:33 PM	67.2	67.2	67.2	64	54.6	4	WSW	0.07	7	WSW	67.2	67.1	67.1	30.143	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:34 PM	67.2	67.2	67.2	64	54.6	6	WSW	0.1	13	SW	67.2	67.1	67.1	30.142	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:35 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	10	W	67.2	67.1	67.1	30.143	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:36 PM	67.2	67.2	67.1	64	54.6	6	SW	0.1	10	W	67.2	67.1	67.1	30.145	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:37 PM	67.2	67.2	67.1	64	54.6	3	SSW	0.05	6	SW	67.2	67.1	67.1	30.146	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:38 PM	67.2	67.2	67.1	64	54.6	5	SSW	0.08	11	SSE	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:39 PM	67.2	67.2	67.1	64	54.6	5	S	0.08	11	SSE	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:40 PM	67.2	67.2	67.1	64	54.6	4	S	0.07	7	NW	67.2	67.1	67.1	30.146	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:41 PM	67.2	67.2	67.1	64	54.6	3	S	0.05	6	SW	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:42 PM	67.2	67.2	67.1	64	54.6	7	SSW	0.12	13	SW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:43 PM	67.2	67.2	67.1	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:44 PM	67.2	67.2	67.2	64	54.6	7	WSW	0.12	11	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:45 PM	67.2	67.2	67.2	64	54.6	6	SW	0.1	10	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:46 PM	67.2	67.2	67.2	64	54.6	5	SW	0.08	12	WSW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:47 PM	67.2	67.2	67.2	64	54.6	5	WSW	0.08	10	WSW	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:48 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:49 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	12	S	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:50 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	12	S	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:51 PM	67.2	67.2	67.2	64	54.6	6	W	0.1	10	W	67.2	67.1	67.1	30.151	0

Meteorological Data
Equity IRM

9/25/2012	10:12 PM	66.4	66.4	66.3	67	55.1	5	W	0.08	10	WSW	66.4	66.4	66.4	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:13 PM	66.3	66.3	66.3	66	54.6	5	NW	0.08	8	WSW	66.3	66.2	66.2	30.142	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	24	1	100	1
9/25/2012	10:14 PM	66.3	66.3	66.3	67	55	5	WSW	0.08	7	WSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:15 PM	66.3	66.3	66.3	67	55	4	S	0.07	6	SSE	66.3	66.3	66.3	30.14	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/25/2012	10:16 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	4	SW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:17 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	5	SSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:18 PM	66.3	66.3	66.2	67	55	5	S	0.08	8	SW	66.3	66.3	66.3	30.14	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:19 PM	66.2	66.3	66.2	67	54.9	4	SSW	0.07	10	S	66.2	66.2	66.2	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:20 PM	66.2	66.2	66.2	67	54.9	5	SSW	0.08	8	SSE	66.2	66.2	66.2	30.142	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	22	1	95.7	1
9/25/2012	10:21 PM	66.2	66.2	66.2	67	54.9	5	S	0.08	8	WSW	66.2	66.2	66.2	30.143	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:22 PM	66.2	66.2	66.2	67	54.9	2	ESE	0.03	4	S	66.2	66.2	66.2	30.142	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:23 PM	66.2	66.2	66.1	67	54.9	3	S	0.05	7	W	66.2	66.2	66.2	30.142	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:24 PM	66.1	66.1	66.1	67	54.8	4	SSW	0.07	8	W	66.1	66.1	66.1	30.14	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:25 PM	66.1	66.1	66.1	67	54.8	5	S	0.08	11	W	66.1	66.1	66.1	30.14	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:26 PM	66.1	66.1	66.1	67	54.8	6	WSW	0.1	10	W	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:27 PM	66.1	66.1	66.1	67	54.8	4	SSW	0.07	7	SSW	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	22	1	95.7	1
9/25/2012	10:28 PM	66.1	66.1	66.1	67	54.8	5	SW	0.08	6	S	66.1	66.1	66.1	30.143	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	24	1	100	1
9/25/2012	10:29 PM	66.1	66.1	66.1	67	54.8	2	SW	0.03	5	SSW	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:30 PM	66.1	66.1	66.1	67	54.8	5	SSE	0.08	11	SSW	66.1	66.1	66.1	30.143	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:31 PM	66.1	66.1	66.1	67	54.8	5	W	0.08	8	SSE	66.1	66.1	66.1	30.142	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0757	23	1	100	1
9/25/2012	10:32 PM	66.1	66.1	66.1	68	55.2	4	NW	0.07	8	WNW	66.1	66.2	66.2	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	23	1	100	1
9/25/2012	10:33 PM	66.1	66.1	66.1	68	55.2	3	SSE	0.05	6	SSE	66.1	66.2	66.2	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	24	1	100	1
9/25/2012	10:34 PM	66	66.1	66	68	55.1	3	S	0.05	8	SSW	66	66	66	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	23	1	100	1
9/25/2012	10:35 PM	66	66	66	68	55.1	4	S	0.07	7	S	66	66	66	30.143	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	24	1	100	1
9/25/2012	10:36 PM	66	66	66	68	55.1	4	S	0.07	10	SSE	66	66	66	30.145	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	22	1	95.7	1
9/25/2012	10:37 PM	66	66	66	68	55.1	5	SSW	0.08	11	SSW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	24	1	100	1
9/25/2012	10:38 PM	66	66	66	68	55.1	3	WSW	0.05	6	WSW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:39 PM	66	66	66	68	55.1	4	SSW	0.07	7	W	66	66	66	30.145	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:40 PM	66	66	66	68	55.1	4	WSW	0.07	8	WSW	66	66	66	30.144	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	24	1	100	1
9/25/2012	10:41 PM	66	66	66	68	55.1	3	SSE	0.05	6	SE	66	66	66	30.144	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:42 PM	66	66	66	68	55.1	4	SSW	0.07	8	SW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:43 PM	66	66	66	68	55.1	7	W	0.12	9	W	66	66	66	30.146	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:44 PM	66	66	65.9	68	55.1	4	S	0.07	8	W	66	66	66	30.145	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	22	1	95.7	1
9/25/2012	10:45 PM	66	66	65.9	68	55.1	5	W	0.08	8	S	66	66	66	30.147	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	24	1	100	1
9/25/2012	10:46 PM	65.9	66	65.9	68	55	4	S	0.07	6	SSE	65.9	65.9	65.9	30.146	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:47 PM	65.9	65.9	65.9	68	55	3	SSW	0.05	5	WSW	65.9	65.9	65.9	30.147	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	24	1	100	1
9/25/2012	10:48 PM	65.9	65.9	65.9	68	55	2	S	0.03	3	S	65.9	65.9	65.9	30.145	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:49 PM	65.9	65.9	65.9	68	55	4	SSW	0.07	6	SSW	65.9	65.9	65.9	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:50 PM	65.9	65.9	65.9	68	55	2	NNW	0.03	4	W	65.9	65.9	65.9	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:51 PM	65.9	65.9	65.9	68	55	4	SSE	0.07	10	SSE	65.9	65.9	65.9	30.146	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:52 PM	65.8	65.8	65.8	68	54.9	5	W	0.08	8	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:53 PM	65.8	65.9	65.8	68	54.9	5	S	0.08	8	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:54 PM	65.8	65.9	65.8	68	54.9	4	SW	0.07	7	SW	65.8	65.8	65.8	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:55 PM	65.8	65.8	65.8	68	54.9	5	WSW	0.08	12	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:56 PM	65.8	65.8	65.8	68	54.9	5	SSE	0.08	9	SE	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:57 PM	65.8	65.8	65.8	68	54.9	4	SSW	0.07	7	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/25/2012	10:58 PM	65.8	65.8	65.8	68	54.9	4	SW	0.07	7	S	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:59 PM	65.8	65.8	65.8	68	54.9	3	SW	0.05	7	WSW	65.8	65.8	65.8	30.143	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/25/2012	11:00 PM	65.8	65.8	65.8	68	54.9	5	SSW	0.08	11	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	11:01 PM	65.8	65.8	65.8	68	54.9	3	SW	0.05	5	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	24	1	100	1
9/25/2012	11:02 PM	65.8	65.8	65.8	68	54.9	5	WSW	0.08	8	WSW	65.8	65.8	65.8	30.142	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/25/2012	11:03 PM	65.8	65.8	65.8	68	54.9	2	W	0.03	5	W	65.8	65.8	65.8	30.142	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/25/2012	11:04 PM	65.7	65.8	65.7	69	55.2	3	SW	0.05	6	SW	65.7	65.8	65.8	30.142	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	24	1	100	1
9/25/2012	11:05 PM	65.7	65.8	65.7	69	55.2	3	SSW	0.05	6	SSW	65.7	65.8	65.8	30.141	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:06 PM	65.7	65.8	65.7	69	55.2	3	WSW	0.05	6	SSW	65.7	65.8	65.8	30.141	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:07 PM	65.7	65.7	65.7	69	55.2	4	SSE	0.07	9	SSW	65.7	65.8	65.8	30.143	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:08 PM	65.7	65.7	65.7	69	55.2	5	SSW	0.08	10	S	65.7	65.8	65.8	30.145	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	22	1	95.7	1
9/25/2012	11:09 PM	65.7	65.7	65.7	69	55.2	1	SE	0.02	3	SSE	65.7	65.8	65.8	30.147	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	24	1	100	1
9/25/2012	11:10 PM	65.7	65.7	65.7	69	55.2	2	SW	0.03	5	SW	65.7	65.8	65.8	30.148	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	22	1	95.7	1
9/25/2012	11:11 PM	65.7	65.7	65.7	69	55.2	2	SSW	0.03	4	SSW	65.7	65.8	65.8	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:12 PM	65.7	65.7	65.7	69	55.2	3	NNW	0.05	6	NW	65.7	65.8	65.8	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:13 PM	65.6	65.7	65.6	69	55.2	5	S	0.08	9	S	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	21	1	91.3	1
9/25/2012	11:14 PM	65.6	65.7	65.6	69	55.2	3	SSE	0.05	6	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:15 PM	65.6	65.6	65.6	69	55.2	5	S	0.08	9	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:16 PM	65.6	65.6	65.6	69	55.2	3	NW	0.05	5	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:17 PM	65.6	65.6	65.6	69	55.2	5	W	0.08	7	S	65.6	65.6	65.6	30.146	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:18 PM	65.7	65.7	65.6	69	55.2	5	W	0.08	10	W	65.7	65.8	65.8	30.148	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:19 PM	65.7	65.7	65.6	69	55.2	4	SSW	0.07	5	S	65.7	65.8	65.8	30.148	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:20 PM	65.7	65.7	65.6	69	55.2	4	S	0.07	8	S	65.7	65.8	65.8	30.149	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:21 PM	65.7	65.7	65.6	70	55.6	2	SW	0.03	7	WSW	65.7	65.8	65.8	30.149	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:22 PM	65.6	65.6	65.6	69	55.2	2	SW	0.03	5	W	65.6	65.6	65.6	30.15	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:23 PM	65.7	65.7	65.6	70	55.6	3	SW	0.05	7	SW	65.7	65.8	65.8	30.15	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:24 PM	65.6	65.6	65.6	70	55.5	3	SW	0.05	5	W	65.6	65.7	65.7	30.148	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:25 PM	65.6	65.6	65.6	70	55.5	4	SSW	0.07	8	S	65.6	65.7	65.7	30.148	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:26 PM	65.6	65.6	65.6	70	55.5	2	W	0.03	5	WSW	65.6	65.7	65.7	30.147	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:27 PM	65.6	65.6	65.6	70	55.5	5	SW	0.08	6	WSW	65.6	65.7	65.7	30.144	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:28 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	6	SW	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:29 PM	65.6	65.6	65.6	70	55.5	4	SSW	0.07	9	S	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:30 PM	65.6	65.6	65.6	70	55.5	4	W	0.07	10	SW	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:31 PM	65.6	65.6	65.6	70	55.5	5	SSW	0.08	9	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:32 PM	65.6	65.6	65.6	70	55.5	3	S	0.05	7	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	22	1	95.7	1
9/25/2012	11:33 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	7	SSW	65.6	65.7	65.7	30.146	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:34 PM	65.6	65.6	65.6	70	55.5	4	WNW	0.07	5	SSW	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:35 PM	65.6	65.6	65.6	70	55.5	2	WSW	0.03	4	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:36 PM	65.6	65.6	65.6	70	55.5	2	WSW	0.03	5	S	65.6	65.7	65.7	30.146	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:37 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	5	S	65.6	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:38 PM	65.5	65.6	65.5	71	55.8	3	SSW	0.05	9	NW	65.5	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:39 PM	65.6	65.6	65.5	71	55.9	5	SSW	0.08	7	SW	65.6	65.8	65.8	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:40 PM	65.5	65.6	65.5	71	55.8	2	SSE	0.03	4	SSE	65.5	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:41 PM	65.5	65.5	65.5	71	55.8	2	SSW	0.03	4	S	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:42 PM	65.5	65.5	65.5	71	55.8	4	WNW	0.07	6	SE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:43 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	7	SSE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:44 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	5	WSW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:45 PM	65.5	65.5	65.5	71	55.8	5	S	0.08	8	SW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:46 PM	65.5	65.5	65.5	71	55.8	4	NW	0.07	6	SSW	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:47 PM	65.5	65.5	65.5	71	55.8	4	S	0.07	7	S	65.5	65.7	65.7	30.141	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:48 PM	65.5	65.6	65.5	71	55.8	2	S	0.03	5	SSE	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:49 PM	65.5	65.5	65.5	71	55.8	5	S	0.08	10	S	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:50 PM	65.5	65.5	65.5	71	55.8	2	WNW	0.03	6	NNW	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:51 PM	65.5	65.5	65.5	71	55.8	5	WSW	0.08	7	WSW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:52 PM	65.5	65.5	65.5	71	55.8	3	SW	0.05	5	SW	65.5	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:53

Meteorological Data
Equity IRM

9/26/2012	1:12 AM	65.4	65.4	65.3	72	56.1	3	WSW	0.05	4	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:13 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	5	W	65.4	65.6	65.6	30.148	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:14 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	5	W	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:15 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	8	WSW	65.4	65.6	65.6	30.149	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:16 AM	65.4	65.4	65.4	72	56.1	4	SW	0.07	7	WSW	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:17 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:18 AM	65.4	65.4	65.4	72	56.1	3	SSW	0.05	7	S	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:19 AM	65.4	65.4	65.4	72	56.1	3	ESE	0.05	7	W	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:20 AM	65.4	65.5	65.4	72	56.1	6	W	0.1	10	W	65.4	65.6	65.6	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:21 AM	65.5	65.5	65.5	72	56.2	4	S	0.07	10	WSW	65.5	65.7	65.7	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:22 AM	65.5	65.5	65.5	72	56.2	3	SW	0.05	7	WNW	65.5	65.7	65.7	30.143	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:23 AM	65.5	65.5	65.5	72	56.2	2	SSW	0.03	5	SSW	65.5	65.7	65.7	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:24 AM	65.5	65.5	65.5	72	56.2	2	SSW	0.03	4	SSW	65.5	65.7	65.7	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:25 AM	65.6	65.6	65.5	72	56.3	4	WSW	0.07	7	WSW	65.6	65.8	65.8	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:26 AM	65.6	65.6	65.5	72	56.3	4	SW	0.07	6	S	65.6	65.8	65.8	30.144	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:27 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	6	SW	65.6	65.8	65.8	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:28 AM	65.6	65.6	65.6	72	56.3	2	SSE	0.03	5	W	65.6	65.8	65.8	30.144	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:29 AM	65.6	65.6	65.6	72	56.3	1	SSE	0.02	4	WSW	65.6	65.8	65.8	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:30 AM	65.6	65.6	65.6	72	56.3	4	S	0.07	9	SSW	65.6	65.8	65.8	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:31 AM	65.6	65.6	65.6	72	56.3	3	S	0.05	5	SW	65.6	65.8	65.8	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:32 AM	65.7	65.7	65.6	72	56.4	2	SSW	0.03	4	SSW	65.7	66	66	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:33 AM	65.7	65.7	65.6	72	56.4	3	SW	0.05	7	WSW	65.7	66	66	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:34 AM	65.7	65.7	65.6	72	56.4	5	S	0.08	10	W	65.7	66	66	30.143	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:35 AM	65.7	65.7	65.6	72	56.4	4	WSW	0.07	8	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:36 AM	65.7	65.7	65.7	72	56.4	3	SSW	0.05	6	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:37 AM	65.7	65.7	65.7	72	56.4	3	W	0.05	4	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:38 AM	65.7	65.8	65.7	72	56.4	4	WSW	0.07	7	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:39 AM	65.7	65.8	65.7	72	56.4	2	WSW	0.03	4	WSW	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:40 AM	65.8	65.8	65.7	72	56.5	5	WSW	0.08	8	W	65.8	66.1	66.1	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:41 AM	65.8	65.8	65.8	72	56.5	2	WSW	0.03	5	WSW	65.8	66.1	66.1	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:42 AM	65.8	65.8	65.8	71	56.1	4	SW	0.07	6	SW	65.8	66	66	30.142	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:43 AM	65.8	65.8	65.8	71	56.1	4	WSW	0.07	7	WSW	65.8	66	66	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:44 AM	65.8	65.8	65.8	72	56.5	3	S	0.05	7	SSW	65.8	66.1	66.1	30.14	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:45 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	W	65.8	66	66	30.139	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:46 AM	65.8	65.8	65.8	71	56.1	2	WSW	0.03	3	WSW	65.8	66	66	30.139	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:47 AM	65.8	65.8	65.8	71	56.1	2	SW	0.03	4	SW	65.8	66	66	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:48 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	WSW	65.8	66	66	30.138	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:49 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	WSW	65.8	66	66	30.138	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:50 AM	65.8	65.8	65.8	72	56.5	3	WSW	0.05	4	WSW	65.8	66.1	66.1	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:51 AM	65.8	65.8	65.8	72	56.5	1	SW	0.02	2	SW	65.8	66.1	66.1	30.135	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:52 AM	65.8	65.8	65.8	72	56.5	3	WSW	0.05	6	WSW	65.8	66.1	66.1	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:53 AM	65.8	65.8	65.8	72	56.5	5	SW	0.08	9	W	65.8	66.1	66.1	30.133	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	1:54 AM	65.8	65.8	65.8	71	56.1	1	SW	0.02	4	SW	65.8	66	66	30.134	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	1:55 AM	65.8	65.8	65.8	71	56.1	1	SW	0.02	1	SW	65.8	66	66	30.135	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:56 AM	65.8	65.8	65.8	71	56.1	2	SSW	0.03	4	SSW	65.8	66	66	30.134	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:57 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	6	WSW	65.8	66	66	30.133	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:58 AM	65.8	65.8	65.8	71	56.1	4	SSW	0.07	6	SSW	65.8	66	66	30.132	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:59 AM	65.8	65.8	65.8	71	56.1	3	SSW	0.05	8	SW	65.8	66	66	30.132	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:00 AM	65.8	65.8	65.8	71	56.1	3	S	0.05	5	S	65.8	66	66	30.13	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:01 AM	65.8	65.8	65.8	71	56.1	6	WSW	0.1	10	W	65.8	66	66	30.129	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:02 AM	65.8	65.8	65.8	71	56.1	3	SSW	0.05	7	SSW	65.8	66	66	30.127	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:03 AM	65.8	65.8	65.8	71	56.1	4	SSE	0.07	8	SSW	65.8	66	66	30.126	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:04 AM	65.7	65.8	65.7	71	56	4	SW	0.07	10	SW	65.7	65.9	65.9	30.125	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:05 AM	65.7	65.7	65.7	71	56	4	WSW	0.07	7	WSW	65.7	65.9	65.9	30.122	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:06 AM	65.7	65.7	65.7	71	56	3	S	0.05	7	S	65.7	65.9	65.9	30.124	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:07 AM	65.6	65.7	65.6	71	55.9	3	SSE	0.05	4	SSE	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:08 AM	65.6	65.6	65.6	71	55.9	4	SW	0.07	9	S	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:09 AM	65.6	65.6	65.6	71	55.9	3	SW	0.05	6	SW	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:10 AM	65.6	65.6	65.6	71	55.9	3	WSW	0.05	6	W	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:11 AM	65.5	65.6	65.5	71	55.8	6	WSW	0.1	11	WSW	65.5	65.7	65.7	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:12 AM	65.5	65.5	65.5	71	55.8	5	WNW	0.08	10	W	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:13 AM	65.5	65.5	65.5	71	55.8	3	WSW	0.05	10	WSW	65.5	65.7	65.7	30.118	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:14 AM	65.5	65.5	65.5	71	55.8	3	WSW	0.05	4	SW	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:15 AM	65.5	65.5	65.5	71	55.8	3	W	0.05	8	W	65.5	65.7	65.7	30.118	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:16 AM	65.5	65.5	65.5	71	55.8	4	NW	0.07	8	WSW	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:17 AM	65.5	65.5	65.5	71	55.8	3	SSW	0.05	5	S	65.5	65.7	65.7	30.117	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:18 AM	65.5	65.5	65.5	71	55.8	3	W	0.05	6	W	65.5	65.7	65.7	30.117	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:19 AM	65.5	65.5	65.5	71	55.8	1	W	0.02	3	W	65.5	65.7	65.7	30.116	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:20 AM	65.5	65.5	65.5	71	55.8	2	W	0.03	4	W	65.5	65.7	65.7	30.116	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:21 AM	65.5	65.5	65.5	71	55.8	2	W	0.03	3	W	65.5	65.7	65.7	30.114	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:22 AM	65.5	65.5	65.5	71	55.8	4	S	0.07	7	S	65.5	65.7	65.7	30.115	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:23 AM	65.5	65.5	65.5	71	55.8	4	W	0.07	6	W	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:24 AM	65.5	65.5	65.5	71	55.8	3	SSE	0.05	5	SSE	65.5	65.7	65.7	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:25 AM	65.5	65.5	65.5	72	56.2	4	WSW	0.07	5	WSW	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:26 AM	65.6	65.6	65.5	71	55.9	5	S	0.08	7	SSW	65.6	65.8	65.8	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:27 AM	65.5	65.6	65.5	71	55.8	6	WSW	0.1	9	WSW	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:28 AM	65.6	65.6	65.6	72	56.3	5	WSW	0.08	7	WSW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:29 AM	65.6	65.6	65.6	71	55.9	3	WSW	0.05	5	WSW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:30 AM	65.6	65.6	65.6	72	56.3	2	S	0.03	4	NNW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:31 AM	65.6	65.6	65.6	72	56.3	3	S	0.05	5	S	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:32 AM	65.6	65.6	65.6	72	56.3	2	SW	0.03	5	SW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:33 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	8	N	65.6	65.8	65.8	30.111	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:34 AM	65.6	65.6	65.6	71	55.9	4	WSW	0.07	8	SW	65.6	65.8	65.8	30.109	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:35 AM	65.6	65.6	65.6	71	55.9	2	WSW	0.03	5	WSW	65.6	65.8	65.8	30.108	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:36 AM	65.6	65.6	65.6	72	56.3	3	SSW	0.05	7	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:37 AM	65.6	65.6	65.5	72	56.3	1	SSW	0.02	3	SSW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:38 AM	65.6	65.6	65.5	72	56.3	5	W	0.08	8	W	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:39 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	5	WSW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:40 AM	65.6	65.6	65.5	71	55.9	3	SSW	0.05	6	SSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:41 AM	65.6	65.6	65.5	71	55.9	2	SW	0.03	5	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:42 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	8	WSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:43 AM	65.6	65.6	65.6	71	55.9	3	SW	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:44 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:45 AM	65.6	65.6	65.6	71	55.9	5	W	0.08	10	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:46 AM	65.6	65.6	65.6	71	55.9	2	SW	0.03	4	WSW	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:47 AM	65.6	65.6	65.6	72	56.3	4	SE	0.07	8	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:48 AM	65.6	65.6	65.6	72	56.3	2	SW	0.03	5	WSW	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:49 AM	65.6	65.6	65.6	72	56.3	4	W	0.07	7	W	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:50 AM	65.6	65.6	65.6	72	56.3	2	WSW	0.03	5	W	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:51 AM	65.6	65.6	65.6	72	56.3	1	WSW	0.02	3	WSW	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:52 AM	65.6	65.6	65.6	72	56.3	4	WSW	0.07	7	W	65.6	65.8	65.8	30.104	0

Meteorological Data
Equity IRM

9/26/2012	4:12 AM	65.7	65.7	65.7	72	56.4	5	WSW	0.08	9	W	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:13 AM	65.7	65.7	65.7	73	56.8	3	SSW	0.05	5	SSW	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	22	1	95.7	1
9/26/2012	4:14 AM	65.8	65.8	65.7	73	56.9	4	SSE	0.07	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:15 AM	65.8	65.8	65.8	72	56.5	5	S	0.08	9	SSW	65.8	66.1	66.1	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:16 AM	65.8	65.8	65.8	72	56.5	3	S	0.05	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:17 AM	65.8	65.8	65.8	73	56.9	2	S	0.03	4	S	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:18 AM	65.9	65.9	65.8	73	57	2	S	0.03	4	S	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:19 AM	65.9	65.9	65.9	73	57	1	S	0.02	2	S	65.9	66.3	66.3	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:20 AM	65.9	65.9	65.9	73	57	5	SSE	0.08	7	SSW	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:21 AM	65.9	65.9	65.9	73	57	4	SSW	0.07	7	S	65.9	66.3	66.3	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:22 AM	65.9	65.9	65.9	72	56.6	2	SW	0.03	5	S	65.9	66.2	66.2	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:23 AM	65.9	65.9	65.9	72	56.6	2	SW	0.03	5	SW	65.9	66.2	66.2	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:24 AM	65.9	65.9	65.9	72	56.6	2	SSW	0.03	8	SSE	65.9	66.2	66.2	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:25 AM	66	66	65.9	72	56.7	3	SSW	0.05	5	SW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:26 AM	66	66	66	72	56.7	2	SW	0.03	5	SSW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:27 AM	66	66	66	72	56.7	2	SSW	0.03	4	SSW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:28 AM	66	66	66	72	56.7	1	SSE	0.02	4	SSE	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:29 AM	66.1	66.1	66.1	72	56.8	2	WSW	0.03	5	WSW	66.1	66.4	66.4	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:30 AM	66.1	66.1	66.1	72	56.8	0	WSW	0	2	WSW	66.1	66.4	66.4	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:31 AM	66.1	66.1	66.1	72	56.8	2	WSW	0.03	6	S	66.1	66.4	66.4	30.087	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:32 AM	66.1	66.1	66.1	72	56.8	3	S	0.05	7	WNW	66.1	66.4	66.4	30.086	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:33 AM	66.1	66.1	66.1	71	56.4	3	NW	0.05	7	NW	66.1	66.4	66.4	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:34 AM	66.1	66.1	66.1	71	56.4	2	S	0.03	4	S	66.1	66.4	66.4	30.087	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:35 AM	66.2	66.2	66.1	71	56.5	6	WNW	0.1	9	WSW	66.2	66.5	66.5	30.085	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	22	1	95.7	1
9/26/2012	4:36 AM	66.2	66.2	66.2	71	56.5	5	SSW	0.08	7	W	66.2	66.5	66.5	30.083	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	24	1	100	1
9/26/2012	4:37 AM	66.3	66.3	66.2	71	56.6	4	SSW	0.07	7	S	66.3	66.6	66.6	30.083	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	23	1	100	1
9/26/2012	4:38 AM	66.3	66.3	66.3	71	56.6	3	SSW	0.05	5	W	66.3	66.6	66.6	30.084	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	24	1	100	1
9/26/2012	4:39 AM	66.3	66.3	66.3	71	56.6	2	S	0.03	4	S	66.3	66.6	66.6	30.085	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	23	1	100	1
9/26/2012	4:40 AM	66.3	66.3	66.3	71	56.6	4	S	0.07	9	WNW	66.3	66.6	66.6	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:41 AM	66.3	66.3	66.3	71	56.6	4	SSW	0.07	8	WNW	66.3	66.6	66.6	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:42 AM	66.4	66.4	66.4	71	56.7	3	SSW	0.05	6	NNW	66.4	66.7	66.7	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:43 AM	66.4	66.4	66.4	71	56.7	4	SW	0.07	7	S	66.4	66.7	66.7	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:44 AM	66.4	66.4	66.4	71	56.7	2	W	0.03	6	W	66.4	66.7	66.7	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:45 AM	66.4	66.4	66.4	71	56.7	4	WNW	0.07	6	WSW	66.4	66.7	66.7	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:46 AM	66.5	66.5	66.4	71	56.8	5	SSE	0.08	10	WSW	66.5	66.9	66.9	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:47 AM	66.5	66.5	66.5	71	56.8	2	W	0.03	4	W	66.5	66.9	66.9	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:48 AM	66.5	66.5	66.5	71	56.8	2	W	0.03	9	SSE	66.5	66.9	66.9	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:49 AM	66.5	66.5	66.5	71	56.8	6	S	0.1	11	SE	66.5	66.9	66.9	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:50 AM	66.5	66.5	66.5	71	56.8	5	W	0.08	8	W	66.5	66.9	66.9	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:51 AM	66.6	66.6	66.5	71	56.9	3	SW	0.05	6	W	66.6	67	67	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:52 AM	66.6	66.6	66.5	71	56.9	5	WSW	0.08	9	WSW	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:53 AM	66.6	66.6	66.6	71	56.9	3	WSW	0.05	6	S	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:54 AM	66.6	66.6	66.6	71	56.9	4	S	0.07	10	SSW	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:55 AM	66.7	66.7	66.6	71	57	4	SSW	0.07	10	WSW	66.7	67.1	67.1	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:56 AM	66.7	66.7	66.7	71	57	3	S	0.05	5	W	66.7	67.1	67.1	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:57 AM	66.7	66.7	66.7	71	57	2	SSE	0.03	4	S	66.7	67.1	67.1	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:58 AM	66.7	66.7	66.7	71	57	3	SSW	0.05	7	SSW	66.7	67.1	67.1	30.079	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	22	1	95.7	1
9/26/2012	4:59 AM	66.7	66.7	66.7	71	57	4	SW	0.07	8	W	66.7	67.1	67.1	30.079	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:00 AM	66.7	66.8	66.7	71	57	3	W	0.05	6	W	66.7	67.1	67.1	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:01 AM	66.8	66.8	66.7	71	57.1	4	S	0.07	6	SSW	66.8	67.2	67.2	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:02 AM	66.8	66.8	66.7	71	57.1	4	S	0.07	9	W	66.8	67.2	67.2	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	5:03 AM	66.8	66.8	66.8	71	57.1	4	SW	0.07	7	WSW	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:04 AM	66.8	66.8	66.8	71	57.1	4	WSW	0.07	10	W	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:05 AM	66.8	66.8	66.8	71	57.1	6	WSW	0.1	11	W	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	22	1	95.7	1
9/26/2012	5:06 AM	66.9	66.9	66.8	71	57.2	3	W	0.05	5	W	66.9	67.3	67.3	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:07 AM	66.9	66.9	66.9	71	57.2	3	SE	0.05	6	SW	66.9	67.3	67.3	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	5:08 AM	66.9	66.9	66.9	70	56.8	3	WSW	0.05	6	W	66.9	67.3	67.3	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:09 AM	66.9	66.9	66.9	71	57.2	7	W	0.12	12	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0757	24	1	100	1
9/26/2012	5:10 AM	66.9	66.9	66.9	70	56.8	4	S	0.07	6	W	66.9	67.3	67.3	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:11 AM	66.9	66.9	66.9	70	56.8	2	SW	0.03	4	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:12 AM	66.9	66.9	66.9	70	56.8	5	S	0.08	9	WNW	66.9	67.3	67.3	30.079	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:13 AM	66.9	66.9	66.9	70	56.8	2	ENE	0.03	4	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:14 AM	66.9	66.9	66.9	70	56.8	4	SW	0.07	8	W	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:15 AM	67	67	66.9	70	56.9	4	WSW	0.07	7	SSW	67	67.4	67.4	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:16 AM	67	67	66.9	70	56.9	3	S	0.05	6	S	67	67.4	67.4	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:17 AM	67	67	67	70	56.9	4	N	0.07	9	WNW	67	67.4	67.4	30.079	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:18 AM	67	67	67	70	56.9	4	SW	0.07	7	SSE	67	67.4	67.4	30.08	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:19 AM	67	67	67	70	56.9	4	SSW	0.07	8	SW	67	67.4	67.4	30.079	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:20 AM	67	67	67	70	56.9	4	WSW	0.07	8	WSW	67	67.4	67.4	30.08	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:21 AM	67	67	67	71	57.3	1	NW	0.02	2	NW	67	67.5	67.5	30.079	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:22 AM	67	67	67	70	56.9	2	WSW	0.03	4	SW	67	67.4	67.4	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:23 AM	67	67	67	71	57.3	2	W	0.03	4	W	67	67.5	67.5	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:24 AM	67	67	67	71	57.3	1	W	0.02	3	W	67	67.5	67.5	30.083	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:25 AM	67	67	66.9	71	57.3	5	W	0.08	10	W	67	67.5	67.5	30.083	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:26 AM	67	67	66.9	70	56.9	4	NW	0.07	11	WSW	67	67.4	67.4	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:27 AM	67	67	67	70	56.9	3	S	0.05	7	S	67	67.4	67.4	30.08	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:28 AM	67	67	67	70	56.9	4	S	0.07	8	W	67	67.4	67.4	30.082	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:29 AM	67	67	67	71	57.3	3	WSW	0.05	7	SSE	67	67.5	67.5	30.08	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:30 AM	67	67	67	70	56.9	5	S	0.08	11	S	67	67.4	67.4	30.078	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:31 AM	67	67	67	70	56.9	3	WSW	0.05	6	WSW	67	67.4	67.4	30.077	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:32 AM	67	67	67	71	57.3	2	S	0.03	4	SW	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:33 AM	67	67	67	71	57.3	2	WNW	0.03	4	SSW	67	67.5	67.5	30.075	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:34 AM	67	67	67	71	57.3	3	S	0.05	5	SW	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:35 AM	67	67	67	71	57.3	5	S	0.08	10	S	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:36 AM	67	67	67	71	57.3	5	WSW	0.08	8	W	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:37 AM	67	67	67	71	57.3	4	W	0.07	7	W	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:38 AM	67	67	67	71	57.3	5	S	0.08	9	W	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:39 AM	67	67	67	71	57.3	4	SSW	0.07	8	S	67	67.5	67.5	30.075	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:40 AM	67	67	67	71	57.3	4	SW	0.07	6	WSW	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:41 AM	66.9	67	66.9	71	57.2	3	S	0.05	6	SSW	66.9	67.3	67.3	30.078	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:42 AM	67	67	67	71	57.3	3	SSW	0.05	7	SE	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:43 AM	67	67	67	71	57.3	5	SSW	0.08	11	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:44 AM	67	67	67	71	57.3	2	WSW	0.03	4	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:45 AM	67	67	67	71	57.3	5	SW	0.08	8	S	67	67.5	67.5	30.08	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:46 AM	67	67	67	71	57.3	2	S	0.03	4	S	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	22	1	95.7	1
9/26/2012	5:47 AM	67	67	67	71	57.3	3	SSW	0.05	5	S	67	67.5	67.5	30.082	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:48 AM	67	67	67	71	57.3	4	W	0.07	7	W	67	67.5	67.5	30.083	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:49 AM	67	67	67	71	57.3	4	S	0.07	6	SSW	67	67.5	67.5	30.086	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:50 AM	67	67	67	71	57.3	6	S	0.1	10	S	67	67.5	67.5	30.087	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:51 AM	67	67	67	71	57.3	4	SSW	0.07	6	SSW	67	67.5	67.5	30.085	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:52 AM	67	67	67	71	57.3	5	WSW	0.08	9	WSW	67	67.5	67.5	30.084	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:53 AM	67	67	67	71	57.3	3	S	0.05	5	SSE	67	67.5	67.

Meteorological Data
Equity IRM

9/26/2012	7:12 AM	67.4	67.4	67.3	72	58.1	3	SSW	0.05	7	WNW	67.4	68	68	30.082	0	0	0	0.002	64	52	46	62.4	9.75	0.0754	24	1	100	1
9/26/2012	7:13 AM	67.4	67.4	67.3	72	58.1	6	W	0.1	10	SW	67.4	68	68	30.087	0	0	0	0.002	64	54	47	62.6	10.15	0.0754	23	1	100	1
9/26/2012	7:14 AM	67.4	67.4	67.3	72	58.1	5	WSW	0.08	10	NNE	67.4	68	68	30.089	0	0	0	0.002	64	55	47.5	62.7	10.25	0.0754	23	1	100	1
9/26/2012	7:15 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	7	WSW	67.4	68	68	30.087	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:16 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	6	W	67.4	68	68	30.088	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	23	1	100	1
9/26/2012	7:17 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	8	W	67.4	68	68	30.089	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:18 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	7	WSW	67.4	68	68	30.09	0	0	0	0.002	64.3	56	48.3	63.1	10.45	0.0753	23	1	100	1
9/26/2012	7:19 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	8	WSW	67.4	68	68	30.092	0	0	0	0.002	64.3	57	48.7	63.2	10.64	0.0753	24	1	100	1
9/26/2012	7:20 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	6	SSW	67.4	68	68	30.093	0	0	0	0.002	64.3	56	48.3	63.1	10.45	0.0753	23	1	100	1
9/26/2012	7:21 AM	67.4	67.4	67.4	72	58.1	3	S	0.05	6	SSE	67.4	68	68	30.094	0	0	0	0.002	64.5	59	49.8	63.6	10.95	0.0752	23	1	100	1
9/26/2012	7:22 AM	67.4	67.4	67.4	72	58.1	2	SSW	0.03	4	SSW	67.4	68	68	30.096	0	0	0	0.002	64.5	58	49.4	63.5	10.75	0.0753	24	1	100	1
9/26/2012	7:23 AM	67.5	67.5	67.4	72	58.2	4	WSW	0.07	7	WSW	67.5	68.1	68.1	30.095	0	0	0	0.002	64.5	60	50.3	63.6	11.06	0.0752	23	1	100	1
9/26/2012	7:24 AM	67.5	67.5	67.5	72	58.2	3	WSW	0.05	8	SSE	67.5	68.1	68.1	30.095	0	0	0	0.002	64.6	58	49.5	63.6	10.75	0.0752	24	1	100	1
9/26/2012	7:25 AM	67.5	67.5	67.5	72	58.2	5	W	0.08	8	WSW	67.5	68.1	68.1	30.093	0	0	0	0.002	64.6	58	49.5	63.6	10.75	0.0752	23	1	100	1
9/26/2012	7:26 AM	67.5	67.5	67.5	72	58.2	4	SW	0.07	6	W	67.5	68.1	68.1	30.095	0	0	0	0.002	64.6	60	50.4	63.8	11.06	0.0752	23	1	100	1
9/26/2012	7:27 AM	67.6	67.6	67.6	72	58.2	3	W	0.05	6	W	67.6	68.2	68.2	30.097	0	0	0	0.002	64.8	59	50.1	63.9	10.95	0.0752	24	1	100	1
9/26/2012	7:28 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	8	W	67.6	68.2	68.2	30.097	0	0	0	0.002	64.8	59	50.1	63.9	10.95	0.0752	23	1	100	1
9/26/2012	7:29 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	7	WNW	67.6	68.2	68.2	30.098	0	0	0	0.002	64.8	62	51.5	64.2	11.45	0.0751	24	1	100	1
9/26/2012	7:30 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	12	WSW	67.6	68.2	68.2	30.099	0	0	0	0.002	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/26/2012	7:31 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	12	W	67.6	68.2	68.2	30.095	0	0	0	0.002	64.9	63	52	64.4	11.65	0.0751	24	1	100	1
9/26/2012	7:32 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	8	WNW	67.6	68.2	68.2	30.099	0	0	0	0.002	64.9	62	51.6	64.3	11.45	0.0751	23	1	100	1
9/26/2012	7:33 AM	67.6	67.6	67.6	72	58.2	3	SSW	0.05	5	SW	67.6	68.2	68.2	30.095	0	0	0	0.002	65.1	62	51.8	64.5	11.45	0.0751	23	1	100	1
9/26/2012	7:34 AM	67.6	67.6	67.6	72	58.2	3	SSW	0.05	8	WSW	67.6	68.2	68.2	30.096	0	0	0	0.002	65.1	63	52.2	64.6	11.65	0.0751	24	1	100	1
9/26/2012	7:35 AM	67.6	67.6	67.6	72	58.2	2	S	0.03	4	SSW	67.6	68.2	68.2	30.095	0	0	0	0.002	65.1	61	51.3	64.4	11.25	0.0751	23	1	100	1
9/26/2012	7:36 AM	67.6	67.6	67.6	72	58.2	5	SSE	0.08	9	W	67.6	68.2	68.2	30.093	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/26/2012	7:37 AM	67.6	67.6	67.6	72	58.2	3	W	0.05	7	W	67.6	68.2	68.2	30.093	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.075	23	1	100	1
9/26/2012	7:38 AM	67.5	67.6	67.5	72	58.2	3	W	0.05	5	W	67.5	68.1	68.1	30.094	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.075	23	1	100	1
9/26/2012	7:39 AM	67.5	67.5	67.5	73	58.5	4	WSW	0.07	8	W	67.5	68.2	68.2	30.095	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.0751	24	1	100	1
9/26/2012	7:40 AM	67.5	67.5	67.5	72	58.2	7	WSW	0.12	9	WSW	67.5	68.1	68.1	30.095	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	23	1	100	1
9/26/2012	7:41 AM	67.5	67.5	67.5	72	58.2	4	S	0.07	8	SSW	67.5	68.1	68.1	30.093	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	24	1	100	1
9/26/2012	7:42 AM	67.5	67.5	67.5	72	58.2	3	SW	0.05	6	W	67.5	68.1	68.1	30.093	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	23	1	100	1
9/26/2012	7:43 AM	67.5	67.5	67.5	73	58.5	4	SW	0.07	6	WSW	67.5	68.2	68.2	30.092	0	0	0	0.002	65.4	62	52	64.8	11.44	0.075	24	1	100	1
9/26/2012	7:44 AM	67.4	67.5	67.4	72	58.1	3	WSW	0.05	6	WNW	67.4	68	68	30.092	0	0	0	0.002	65.4	62	52	64.8	11.44	0.075	23	1	100	1
9/26/2012	7:45 AM	67.5	67.5	67.4	73	58.5	4	SW	0.07	7	SW	67.5	68.2	68.2	30.091	0	0	0	0.002	65.6	63	52.7	65.2	11.64	0.075	23	1	100	1
9/26/2012	7:46 AM	67.4	67.4	67.4	73	58.4	2	WSW	0.03	5	W	67.4	68.1	68.1	30.093	0	0	0	0.002	65.6	62	52.2	65.1	11.44	0.075	23	1	100	1
9/26/2012	7:47 AM	67.4	67.4	67.4	73	58.4	3	S	0.05	6	SSW	67.4	68.1	68.1	30.091	0	0	0	0.002	65.6	61	51.8	65	11.25	0.075	23	1	100	1
9/26/2012	7:48 AM	67.5	67.5	67.4	73	58.5	2	SSW	0.03	4	SW	67.5	68.2	68.2	30.091	0	0	0	0.002	65.6	61	51.8	65	11.25	0.075	23	1	100	1
9/26/2012	7:49 AM	67.5	67.5	67.5	73	58.5	2	W	0.03	5	WSW	67.5	68.2	68.2	30.09	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/26/2012	7:50 AM	67.5	67.5	67.5	73	58.5	4	SW	0.07	7	WSW	67.5	68.2	68.2	30.087	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	22	1	95.7	1
9/26/2012	7:51 AM	67.5	67.5	67.5	73	58.5	5	WSW	0.08	7	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/26/2012	7:52 AM	67.5	67.5	67.5	73	58.5	3	SW	0.05	4	SSW	67.5	68.2	68.2	30.087	0	0	0	0.002	65.8	61	52	65.2	11.25	0.075	23	1	100	1
9/26/2012	7:53 AM	67.5	67.5	67.5	73	58.5	3	S	0.05	7	SSE	67.5	68.2	68.2	30.087	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.075	23	1	100	1
9/26/2012	7:54 AM	67.5	67.5	67.5	73	58.5	4	WSW	0.07	8	WNW	67.5	68.2	68.2	30.088	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.075	23	1	100	1
9/26/2012	7:55 AM	67.5	67.5	67.5	73	58.5	5	SW	0.08	7	W	67.5	68.2	68.2	30.087	0	0	0	0.002	65.9	61	52.1	65.3	11.25	0.0749	22	1	95.7	1
9/26/2012	7:56 AM	67.5	67.5	67.5	73	58.5	3	SW	0.05	5	SW	67.5	68.2	68.2	30.087	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	24	1	100	1
9/26/2012	7:57 AM	67.5	67.5	67.5	73	58.5	2	S	0.03	4	WNW	67.5	68.2	68.2	30.087	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	22	1	95.7	1
9/26/2012	7:58 AM	67.5	67.5	67.5	73	58.5	3	SSW	0.05	5	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	24	1	100	1
9/26/2012	7:59 AM	67.5	67.5	67.5	73	58.5	2	WSW	0.03	3	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	60	51.8	65.4	11.05	0.0749	22	1	95.7	1
9/26/2012	8:00 AM	67.5	67.5	67.5	73	58.5	1	SSE	0.02	3	SSE	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/26/2012	8:01 AM	67.5	67.5	67.5	73	58.5	3	SSE	0.05	5	W	67.5	68.2	68.2	30.088	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	23	1	100	1
9/26/2012	8:02 AM	67.5	67.5	67.5	73	58.5	3	WSW	0.05	5	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/26/2012	8:03 AM	67.6	67.6	67.5	73	58.6	2	WSW	0.03	4	W	67.6	68.3	68.3	30.088	0	0	0	0.002	66.2	60	51.9	65.5	11.05	0.0749	24	1	100	1
9/26/2012	8:04 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	WSW	67.6	68.3	68.3	30.089	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	23	1	100	1
9/26/2012	8:05 AM	67.6	67.6	67.6	73	58.6	5	S	0.08	9	W	67.6	68.3	68.3	30.087	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	24	1	100	1
9/26/2012	8:06 AM	67.6	67.6	67.6	73	58.6	7	WSW	0.12	10	WNW	67.6	68.3	68.3	30.089	0	0	0	0.002	66.4	61	52.5	65.9	11.25	0.0749	23	1	100	1
9/26/2012	8:07 AM	67.6	67.6	67.6	73	58.6	6	WSW	0.1	9	WSW	67.6	68.3	68.3	30.087	0	0	0	0.002	66.4	61	52.5	65.9	11.25	0.0749	23	1	100	1
9/26/2012	8:08 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	5	WSW	67.6	68.3	68.3	30.09	0	0	0	0.002	66.4	62	53	66	11.42	0.0748	24	1	100	1
9/26/2012	8:09 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	6	S	67.6	68.3	68.3	30.09	0	0	0	0.002	66.4	62	53	66	11.42	0.0748	23	1	100	1
9/26/2012	8:10 AM	67.6	67.6	67.6	73	58.6	2	S	0.03	4	S	67.6	68.3	68.3	30.09	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	24	1	100	1
9/26/2012	8:11 AM	67.6	67.6	67.6	73	58.6	2	S	0.03	4	SSW	67.6	68.3	68.3	30.09	0	0	0	0.002	66.6	62	53.2	66.2	11.42	0.0748	23	1	100	1
9/26/2012	8:12 AM	67.6	67.6	67.6	73	58.6	2	WSW	0.03	4	SW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	24	1	100	1
9/26/2012	8:13 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	WSW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	23	1	100	1
9/26/2012	8:14 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	5	SW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	23	1	100	1
9/26/2012	8:15 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	3	WSW	67.6	68.3	68.3	30.093	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:16 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	W	67.6	68.3	68.3	30.095	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:17 AM	67.6	67.6	67.6	73	58.6	5	WSW	0.08	10	N	67.6	68.3	68.3	30.093	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	24	1	100	1
9/26/2012	8:18 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	9	S	67.6	68.2	68.2	30.09	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:19 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	10	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	62	53.3	66.3	11.42	0.0748	23	1	100	1
9/26/2012	8:20 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	8	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	64	54.1	66.5	11.72	0.0748	24	1	100	1
9/26/2012	8:21 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	8	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	63	53.7	66.4	11.62	0.0748	23	1	100	1
9/26/2012	8:22 AM	67.6	67.6	67.6	72	58.2	6	SW	0.1	9	W	67.6	68.2	68.2	30.094	0	0	0	0.002	66.9	62	53.5	66.6	11.41	0.0748	24	1	100	1
9/26/2012	8:23 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	6	WSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:24 AM	67.6	67.6	67.6	72	58.2	5	SW	0.08	7	SW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:25 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	7	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:26 AM	67.6	67.6	67.6	72	58.2	3	WSW	0.05	6	WSW	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	22	1	95.7	1
9/26/2012	8:27 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	9	W	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:28 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	8	WSW	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:29 AM	67.6	67.6	67.6	72	58.2	2	SW	0.03	5	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:30 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	6	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:31 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	9	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:32 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	9	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:33 AM	67.6	67.6	67.6	72	58.2	7	W	0.12	10	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:34 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	13	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	24	1	100	1
9/26/2012	8:35 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	8	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:36 AM	67.6	67.6	67.6	72	58.2	2	SW	0.03	5	W	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:37 AM	67.6	67.6	67.6	72	58.2	3	WNW	0.05	4	SW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:38 AM	67.6	67.6	67.6	72	58.2	3	WNW	0.05	5	W	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	23	1	100	1
9/26/2012	8:39 AM	67.6	67.6	67.6	72	58.2	5	SSE	0.08	8	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	24	1	100	1
9/26/2012	8:40 AM	67.6	67.6	67.6	72	58.2	5	SW	0.08	7	WSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	21	1	91.3	1
9/26/2012	8:41 AM	67.6	67.6	67.6	72	58.2	4	S	0.07	7	SSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:42 AM	67.6	67.6	67.6	72	58.2	2	S	0.03	7	SSW	67.6	68.2	68.2	30.094	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	20	1	87	1
9/26/2012	8:43 AM	67.6	67.6	67.6	72	58.2	4	SSE	0.07	7	SE	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	22	1	95.7	1
9/26/2012	8:44 AM	67.7	67.7	67.6	73	58.7	3	W	0.05	7	SW	67.7	68.4	68.4	30.094	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	24	1	100	1
9/26/2012	8:45 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	5	W	67.7	68.4	68.4	30.094	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	22	1	95.7	1
9/26/2012	8:46 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	11	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	24	1	100	1
9/26/2012	8:47 AM	67.7	67.7	67.7	72	58.3	4	WSW	0.07	8	WSW	67.7	68.4	68.4	30.091	0	0	0	0.002	67	65	54.8	67	11.91	0.0747	22	1	95.7	1
9/26/2012	8:48 AM	67.7	67.7	67.7	73	58.7	2	S	0.03	5	S	67.7	68.4	68.4	30.091	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:49 AM	67.7	67.7	67.7	73	58.7	2	SSW	0.03	4	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:50 AM	67.7	67.7	67.7	73	58.7	3	WSW	0.05	6	SE	67.7	68.4	68.4	30.092	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:51 AM	67.8	67.8	67.7	72	58.4	4	SSW	0.07	7	WSW	67.8	68.5	68.5	30.092	0	0	0	0.002

Meteorological Data
Equity IRM

9/26/2012	10:12 AM	68.3	68.4	68.3	73	59.3	5	W	0.08	9	WSW	68.3	69.1	69.1	30.093	0	0	0	0.002	70.6	63	57.4	70.2	11.54	0.0741	23	1	100	1
9/26/2012	10:13 AM	68.4	68.4	68.3	73	59.4	3	S	0.05	7	S	68.4	69.2	69.2	30.093	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:14 AM	68.3	68.3	68.3	73	59.3	1	S	0.02	2	WSW	68.3	69.1	69.1	30.091	0	0	0	0.002	70.7	63	57.5	70.4	11.54	0.0741	23	1	100	1
9/26/2012	10:15 AM	68.4	68.4	68.4	73	59.4	2	S	0.03	3	S	68.4	69.2	69.2	30.091	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:16 AM	68.5	68.5	68.4	73	59.5	3	SSW	0.05	6	SSW	68.5	69.3	69.3	30.091	0	0	0	0.002	70.9	62	57.2	70.5	11.33	0.074	23	1	100	1
9/26/2012	10:17 AM	68.5	68.5	68.5	72	59.1	3	SSW	0.05	8	WSW	68.5	69.2	69.2	30.09	0	0	0	0.002	70.9	63	57.7	70.6	11.53	0.074	23	1	100	1
9/26/2012	10:18 AM	68.6	68.6	68.5	73	59.6	2	WSW	0.03	4	SW	68.6	69.4	69.4	30.089	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	24	1	100	1
9/26/2012	10:19 AM	68.6	68.6	68.6	73	59.6	3	WNW	0.05	5	NW	68.6	69.4	69.4	30.088	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	23	1	100	1
9/26/2012	10:20 AM	68.6	68.6	68.6	73	59.6	4	SSW	0.07	7	SSE	68.6	69.4	69.4	30.088	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	24	1	100	1
9/26/2012	10:21 AM	68.7	68.7	68.6	73	59.7	4	SSW	0.07	7	SSW	68.7	69.5	69.5	30.086	0	0	0	0.003	71.2	61	57.1	70.9	11.2	0.074	23	1	100	1
9/26/2012	10:22 AM	68.7	68.8	68.7	72	59.3	3	SW	0.05	6	W	68.7	69.4	69.4	30.085	0	0	0	0.003	71.2	62	57.5	70.9	11.33	0.074	24	1	100	1
9/26/2012	10:23 AM	68.8	68.8	68.7	72	59.4	2	SSW	0.03	5	SSW	68.8	69.5	69.5	30.084	0	0	0	0.003	71.4	62	57.7	71.2	11.32	0.0739	23	1	100	1
9/26/2012	10:24 AM	68.8	68.8	68.8	72	59.4	3	WSW	0.05	5	WSW	68.8	69.5	69.5	30.083	0	0	0	0.003	71.4	61	57.2	71.1	11.19	0.074	22	1	95.7	1
9/26/2012	10:25 AM	68.8	68.8	68.8	72	59.4	4	SSW	0.07	6	SSW	68.8	69.5	69.5	30.084	0	0	0	0.003	71.4	61	57.2	71.1	11.19	0.074	23	1	100	1
9/26/2012	10:26 AM	68.9	68.9	68.8	72	59.5	3	SSW	0.05	5	SSW	68.9	69.5	69.5	30.084	0	0	0	0.003	71.6	61	57.4	71.4	11.19	0.0739	23	1	100	1
9/26/2012	10:27 AM	68.9	68.9	68.9	72	59.5	3	SW	0.05	5	W	68.9	69.5	69.5	30.084	0	0	0	0.003	71.6	61	57.4	71.4	11.19	0.0739	23	1	100	1
9/26/2012	10:28 AM	68.9	68.9	68.9	72	59.5	2	WSW	0.03	6	WSW	68.9	69.5	69.5	30.085	0	0	0	0.003	71.8	61	57.6	71.7	11.18	0.0739	23	1	100	1
9/26/2012	10:29 AM	68.9	68.9	68.9	73	59.9	3	WSW	0.05	7	W	68.9	69.7	69.7	30.086	0	0	0	0.003	71.8	61	57.6	71.7	11.18	0.0739	22	1	95.7	1
9/26/2012	10:30 AM	68.9	68.9	68.9	72	59.5	3	WSW	0.05	7	WSW	68.9	69.5	69.5	30.088	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	24	1	100	1
9/26/2012	10:31 AM	68.9	68.9	68.9	72	59.5	2	WSW	0.03	4	WSW	68.9	69.5	69.5	30.088	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	22	1	95.7	1
9/26/2012	10:32 AM	68.9	69	68.9	72	59.5	1	S	0.02	2	S	68.9	69.5	69.5	30.087	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	24	1	100	1
9/26/2012	10:33 AM	69	69	69	72	59.6	3	S	0.05	5	SSW	69	69.6	69.6	30.086	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:34 AM	69.1	69.1	69	72	59.7	1	S	0.02	3	S	69.1	69.7	69.7	30.088	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:35 AM	69.1	69.1	69.1	72	59.7	2	SW	0.03	3	SSW	69.1	69.7	69.7	30.091	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:36 AM	69.2	69.2	69.1	72	59.8	0	SW	0	1	SW	69.2	69.8	69.8	30.096	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0739	22	1	95.7	1
9/26/2012	10:37 AM	69.2	69.2	69.2	72	59.8	2	SW	0.03	5	W	69.2	69.8	69.8	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:38 AM	69.2	69.2	69.2	72	59.8	3	W	0.05	6	W	69.2	69.8	69.8	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	22	1	95.7	1
9/26/2012	10:39 AM	69.2	69.2	69.2	72	59.8	6	WSW	0.1	8	WSW	69.2	69.8	69.8	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:40 AM	69.1	69.2	69.1	71	59.3	4	SW	0.07	6	WSW	69.1	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:41 AM	69.1	69.1	69.1	71	59.3	4	SSW	0.07	7	WSW	69.1	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:42 AM	69	69.1	69	71	59.2	3	WSW	0.05	6	NW	69	69.5	69.5	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:43 AM	69	69	69	72	59.6	3	WSW	0.05	4	WSW	69	69.6	69.6	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:44 AM	69	69	69	72	59.6	2	NNW	0.03	3	NNW	69	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:45 AM	69	69	69	72	59.6	1	N	0.02	2	NNW	69	69.6	69.6	30.095	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:46 AM	69	69	69	72	59.6	3	W	0.05	7	W	69	69.6	69.6	30.094	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:47 AM	69	69.1	69	72	59.6	5	WSW	0.08	8	WNW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:48 AM	69	69.1	69	72	59.6	4	WSW	0.07	6	SW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	23	1	100	1
9/26/2012	10:49 AM	69	69	69	72	59.6	5	SW	0.08	10	WSW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	24	1	100	1
9/26/2012	10:50 AM	69	69	69	72	59.6	4	SW	0.07	6	NW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:51 AM	69	69	69	72	59.6	3	W	0.05	4	W	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	24	1	100	1
9/26/2012	10:52 AM	69	69	69	72	59.6	5	WSW	0.08	6	W	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:53 AM	69	69	69	72	59.6	4	WSW	0.07	9	WNW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:54 AM	69	69	69	72	59.6	5	WSW	0.08	8	WSW	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:55 AM	69	69	69	72	59.6	4	WSW	0.07	6	WSW	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:56 AM	69	69	69	72	59.6	3	W	0.05	5	W	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:57 AM	69	69	69	72	59.6	3	SW	0.05	5	SW	69	69.6	69.6	30.091	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:58 AM	69.1	69.1	69	72	59.7	2	WSW	0.03	3	WNW	69.1	69.7	69.7	30.089	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:59 AM	69.1	69.1	69.1	72	59.7	2	WSW	0.03	6	WSW	69.1	69.7	69.7	30.089	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	11:00 AM	69.2	69.2	69.1	72	59.8	3	W	0.05	6	W	69.2	69.8	69.8	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	11:01 AM	69.2	69.2	69.2	72	59.8	4	W	0.07	7	WSW	69.2	69.8	69.8	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	11:02 AM	69.2	69.3	69.2	71	59.4	4	WNW	0.07	5	W	69.2	69.7	69.7	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	11:03 AM	69.3	69.3	69.3	72	59.9	2	WNW	0.03	4	SSW	69.3	69.8	69.8	30.089	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	11:04 AM	69.3	69.3	69.3	72	59.9	2	SSW	0.03	5	WSW	69.3	69.8	69.8	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	11:05 AM	69.4	69.4	69.3	72	60	2	W	0.03	4	W	69.4	69.9	69.9	30.089	0	0	0	0.003	72.4	61	58.2	72.6	11.15	0.0738	23	1	100	1
9/26/2012	11:06 AM	69.5	69.5	69.4	72	60.1	3	SSW	0.05	5	SSW	69.5	70	70	30.087	0	0	0	0.003	72.4	61	58.2	72.6	11.15	0.0738	24	1	100	1
9/26/2012	11:07 AM	69.5	69.5	69.4	72	60.1	3	S	0.05	4	SSW	69.5	70	70	30.086	0	0	0	0.003	72.6	60	57.9	72.8	11	0.0738	23	1	100	1
9/26/2012	11:08 AM	69.6	69.6	69.5	71	59.8	3	SSW	0.05	6	W	69.6	69.9	69.9	30.085	0	0	0	0.003	72.6	60	57.9	72.8	11	0.0738	24	1	100	1
9/26/2012	11:09 AM	69.7	69.7	69.6	72	60.3	2	SSW	0.03	5	SSW	69.7	70.1	70.1	30.087	0	0	0	0.003	72.8	60	58.1	73.1	10.99	0.0737	23	1	100	1
9/26/2012	11:10 AM	69.8	69.8	69.7	72	60.4	5	S	0.08	7	SSE	69.8	70.2	70.2	30.089	0	0	0	0.003	72.8	60	58.1	73.1	10.99	0.0737	23	1	100	1
9/26/2012	11:11 AM	69.9	69.9	69.9	71	60.1	4	S	0.07	7	SSW	69.9	70.1	70.1	30.087	0	0	0	0.003	73	60	58.3	73.4	10.99	0.0737	24	1	100	1
9/26/2012	11:12 AM	70	70	69.9	71	60.2	6	S	0.1	9	S	70	70.2	70.2	30.089	0	0	0	0.003	73	60	58.3	73.4	10.99	0.0737	23	1	100	1
9/26/2012	11:13 AM	70.1	70.1	70	71	60.3	4	SSW	0.07	7	S	70.1	70.3	70.3	30.089	0	0	0	0.004	73.1	60	58.4	73.5	10.99	0.0737	24	1	100	1
9/26/2012	11:14 AM	70.2	70.2	70.1	71	60.4	2	SSW	0.03	7	SSW	70.2	70.5	70.5	30.089	0	0	0	0.004	73.3	60	58.6	73.8	10.98	0.0736	23	1	100	1
9/26/2012	11:15 AM	70.4	70.4	70.3	70	60.1	3	SSW	0.05	4	SSW	70.4	70.6	70.6	30.089	0	0	0	0.004	73.5	60	58.8	74.1	10.98	0.0736	24	1	100	1
9/26/2012	11:16 AM	70.5	70.5	70.4	70	60.2	3	SSE	0.05	6	S	70.5	70.8	70.8	30.088	0	0	0	0.004	73.6	60	58.9	74.2	10.98	0.0736	22	1	95.7	1
9/26/2012	11:17 AM	70.6	70.6	70.5	70	60.3	4	SSW	0.07	7	S	70.6	70.9	70.9	30.088	0	0	0	0.004	73.8	60	59	74.4	10.97	0.0736	21	1	91.3	1
9/26/2012	11:18 AM	70.6	70.6	70.6	70	60.3	5	S	0.08	9	S	70.6	70.9	70.9	30.087	0	0	0	0.004	74	60	59.2	74.7	10.97	0.0735	24	1	100	1
9/26/2012	11:19 AM	70.6	70.6	70.6	70	60.3	6	S	0.1	11	S	70.6	70.9	70.9	30.086	0	0	0	0.004	74.2	59	58.9	74.8	10.78	0.0735	22	1	95.7	1
9/26/2012	11:20 AM	70.6	70.6	70.5	70	60.3	5	SSW	0.08	8	SSE	70.6	70.9	70.9	30.083	0	0	0	0.004	74.3	59	59	75	10.78	0.0735	24	1	100	1
9/26/2012	11:21 AM	70.6	70.6	70.6	70	60.3	5	S	0.08	9	S	70.6	70.9	70.9	30.084	0	0	0	0.004	74.5	59	59.2	75.2	10.77	0.0734	22	1	95.7	1
9/26/2012	11:22 AM	70.7	70.7	70.6	69	60	4	SSE	0.07	7	SW	70.7	70.9	70.9	30.086	0	0	0	0.004	74.7	59	59.4	75.5	10.76	0.0734	23	1	100	1
9/26/2012	11:23 AM	70.7	70.7	70.7	69	60	5	SSW	0.08	7	SSW	70.7	70.9	70.9	30.087	0	0	0	0.004	74.7	59	59.4	75.5	10.76	0.0734	23	1	100	1
9/26/2012	11:24 AM	70.7	70.7	70.7	69	60	5	SSW	0.08	8	S	70.7	70.9	70.9	30.085	0	0	0	0.004	74.9	59	59.6	75.7	10.75	0.0734	23	1	100	1
9/26/2012	11:25 AM	70.8	70.8	70.7	69	60.1	8	SSE	0.13	10	SW	70.3	71	70.5	30.088	0	0	0	0.004	75	58	59.2	75.7	10.55	0.0734	23	1	100	1
9/26/2012	11:26 AM	70.9	70.9	70.8	69	60.2	5	SSE	0.08	9	S	70.9	71.2	71.2	30.084	0	0	0	0.004	75.2	58	59.4	75.9	10.54	0.0733	22	1	95.7	1
9/26/2012	11:27 AM	71	71	70.9	69	60.3	3	SW	0.05	5	SW	71	71.3	71.3	30.084	0	0	0	0.004	75.4	58	59.6	76.1	10.53	0.0733	23	1	100	1
9/26/2012	11:28 AM	71.1	71.1	71	69	60.4	4	WSW	0.07	6	WSW	71.1	71.4	71.4	30.087	0	0	0	0.004	75.4	58	59.6	76.1	10.53	0.0733	23	1	100	1
9/26/2012	11:29 AM	71.2	71.2	71.1	69	60.5	3	WSW	0.05	5	WSW	71.2	71.6	71.6	30.085	0	0	0	0.004	75.6	58	59.8	76.2	10.53	0.0733	23	1	100	1
9/26/2012	11:30 AM	71.2	71.2	71.2	69	60.5	5	S	0.08	8	SW	71.2	71.6	71.6	30.084	0	0	0	0.004	75.7	58	59.9	76.3	10.52	0.0732	24	1	100	1
9/26/2012	11:31 AM	71.2	71.2	71.2	68	60.1	4	S	0.07	8	S	71.2	71.5	71.5	30.084	0	0	0	0.004	75.9	58	60.1	76.5	10.51	0.0732	23	1	100	1
9/26/2012	11:32 AM	71.3	71.3	71.2	69	60.6	3	SE	0.05	5	SSE	71.3	71.7	71.7	30.08	0	0	0	0.004	76.1	57	59.8	76.6	10.31	0.0732	24	1	100	1
9/26/2012	11:33 AM	71.4	71.4	71.3	69	60.7	2	WNW	0.03	5	WNW	71.4	71.8	71.8	30.082	0	0	0	0.004	76.4	57	60	76.9	10.29	0.0731	23	1	100	1
9/26/2012	11:34 AM	71.5	71.5	71.4	69	60.8	1	WNW	0.02	3	SW	71.5	72	72	30.083	0	0	0	0.005	76.6	57	60.2	77.1	10.29	0.0731	23	1	100	1
9/26/2012	11:35 AM	71.6	71.6	71.5	68	60.5	5	SE	0.08	8	S	71.6	72	72	30.083	0	0	0	0.005	76.8	57	60.4	77.3	10.28	0.0731	24	1	100	1
9/26/2012	11:36 AM	71.6	71.6	71.6	68	60.5	3	SSE	0.05	8	SSE	71.6	72	72	30.081	0	0	0	0.005	77	57	60.6	77.5	10.27	0.073	23	1	100	1
9/26/2012	11:37 AM	71.7	71.7	71.6	68	60.6	6	S	0.1	11	WSW	71.7	72.1	72.1	30.078	0	0	0	0.005	77	56	60.1	77.4	10.17	0.073	24	1	100	1
9/26/2012	11:38 AM	71.7	71.7	71.7	68	60.6	2	SSW	0.03	5	W	71.7	72.1	72.1	30.081	0	0	0	0.005	77.2	56	60.3	77.6	10.16	0.073	23	1	100	1
9/26/2012	11:39 AM	71.7	71.7	71.7	68	60.6	3	SSW	0.05	5	SSW	71.7	72.1	72.1	30.082	0	0	0	0.005	77.3	56	60.4	77.8	10.16	0.073	23	1	100	1
9/26/2012	11:40 AM	71.8	71.8	71.7	68	60.7	3	S	0.05	5	SSE	71.8	72.3	72.3	30.081	0	0	0	0.005	77.5	56	60.6	78	10.15	0.073	24	1	100	1
9/26/2012	11:41 AM	71.8	71.8	71.8	68	60.7	2	S	0.03	5	W	71.8	72.3	72.3	30.084	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	23	1	100	1
9/26/2012	11:42 AM	71.8	71.9	71.8	68	60.7	5	WSW	0.08	8	WNW	71.8	72.3	72.3	30.083	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	24	1	100	1
9/26/2012	11:43 AM	71.7	71.8	71.7	68	60.6	3	WSW	0.05	6	WNW	71.7	72.1	72.1	30.081	0	0	0	0.005	77.9	55	60.4	78.4	9.93	0.0729	23	1	100	1
9/26/2012	11:44 AM	71.7	71.7	71.7	68	60.6	4	SSE	0.07	7	WSW	71.7	72.1	72.1	30.081	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	24	1	100	1
9/26/2012	11:45 AM	71.6	71.7	71.6	68	60.5	5	WSW	0.08	8	WSW	71.6	72	72	30.082	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	23	1	100	1
9/26/2012	11:46 AM	71.5	71.6	71.5	68	60.4	5	WSW	0.08	10	WSW	71.5	71.9	71.9	30.083	0	0	0	0.005	78.2	55	60.7	78.7	9.92	0.0729	23	1	100	1
9/26/2012	11:47 AM	71.4	71.5	71.4	68	60.3	3	WSW	0.05	6	WSW	71.4	71.7	71.7	30.081	0	0	0	0.004	78.2	54	60.2	78.6	9.79	0.0729	24	1	100	1
9/26/2012	11:48 AM	71.4	71.4	71.4	68	60.3	3	WSW	0.05	5	WSW	71.4	71.7	71.7	30.081	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:49 AM	71.4	71.4	71.3	69	60.7	3	WSW	0.05	5	W	71.4	71.8	71.8	30.083	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0729	24	1	100	1
9/26/2012	11:50 AM	71.4	71.4	71.4	69	60.7	2	SSE	0.03	5	SSE	71.4	71.8	71.8	30.08	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:51 AM	71.5	71.5	71.4	69	60.8	3	SSE	0.05	6	SW	71.5	72	72	30.081	0	0	0	0.005	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:52 AM	71.5	71.5	71.4	68	60.4	4

Meteorological Data
Equity IRM

9/26/2012	1:12 PM	74.9	74.9	74.9	63	61.5	5	SSE	0.08	8	S	74.9	76	76	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:13 PM	75	75	74.9	63	61.5	3	S	0.05	5	S	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:14 PM	75	75	74.9	63	61.5	3	WSW	0.05	5	WSW	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:15 PM	75.1	75.1	75	63	61.6	4	WSW	0.07	8	S	75.1	76.2	76.2	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:16 PM	75.2	75.2	75.1	63	61.7	5	S	0.08	8	S	75.2	76.3	76.3	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:17 PM	75.3	75.3	75.2	63	61.8	4	S	0.07	8	S	75.3	76.4	76.4	30.05	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:18 PM	75.3	75.3	75.2	62	61.4	3	S	0.05	5	SSW	75.3	76.3	76.3	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:19 PM	75.3	75.4	75.3	62	61.4	5	S	0.08	8	S	75.3	76.3	76.3	30.051	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:20 PM	75.3	75.3	75.3	62	61.4	6	SSE	0.1	8	SSE	75.3	76.3	76.3	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:21 PM	75.4	75.4	75.3	62	61.5	3	SW	0.05	5	SSW	75.4	76.4	76.4	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:22 PM	75.4	75.4	75.3	63	61.9	1	SW	0.02	3	SW	75.4	76.5	76.5	30.051	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:23 PM	75.5	75.5	75.4	62	61.6	3	W	0.05	4	WSW	75.5	76.5	76.5	30.05	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/26/2012	1:24 PM	75.6	75.6	75.5	62	61.7	3	SSW	0.05	6	SSW	75.6	76.6	76.6	30.049	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:25 PM	75.7	75.7	75.7	62	61.8	3	S	0.05	6	SSE	75.7	76.6	76.6	30.049	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:26 PM	76	76	75.8	62	62	2	SSE	0.03	4	SSE	76	76.9	76.9	30.047	0	0	0	0.008	83.5	49	62.3	84.9	8.88	0.072	24	1	100	1
9/26/2012	1:27 PM	76.2	76.2	76	62	62.2	2	WSW	0.03	5	WSW	76.2	77.1	77.1	30.048	0	0	0	0.008	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/26/2012	1:28 PM	76.4	76.4	76.3	61	62	2	SW	0.03	6	SW	76.4	77.2	77.2	30.047	0	0	0	0.008	83.7	49	62.5	85.2	8.88	0.072	24	1	100	1
9/26/2012	1:29 PM	76.5	76.5	76.4	61	62	3	S	0.05	7	SSW	76.5	77.3	77.3	30.047	0	0	0	0.008	83.7	49	62.5	85.2	8.88	0.072	22	1	95.7	1
9/26/2012	1:30 PM	76.7	76.7	76.5	61	62.2	2	S	0.03	6	S	76.7	77.6	77.6	30.046	0	0	0	0.008	83.9	48	62.1	85.4	8.77	0.0719	24	1	100	1
9/26/2012	1:31 PM	76.7	76.7	76.6	61	62.2	4	S	0.07	6	S	76.7	77.6	77.6	30.046	0	0	0	0.008	83.9	48	62.1	85.4	8.77	0.0719	23	1	100	1
9/26/2012	1:32 PM	76.8	76.8	76.7	60	61.9	1	S	0.02	3	S	76.8	77.6	77.6	30.045	0	0	0	0.008	84.1	48	62.3	85.6	8.77	0.0719	23	1	100	1
9/26/2012	1:33 PM	76.7	76.8	76.7	60	61.8	4	W	0.07	6	WSW	76.7	77.5	77.5	30.044	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	24	1	100	1
9/26/2012	1:34 PM	76.6	76.7	76.6	60	61.7	2	W	0.03	4	W	76.6	77.4	77.4	30.042	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	23	1	100	1
9/26/2012	1:35 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	7	S	76.6	77.4	77.4	30.04	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	24	1	100	1
9/26/2012	1:36 PM	76.7	76.7	76.6	61	62.2	4	S	0.07	5	S	76.7	77.6	77.6	30.042	0	0	0	0.008	84.5	48	62.7	86	8.76	0.0718	23	1	100	1
9/26/2012	1:37 PM	76.7	76.7	76.7	60	61.8	4	SSE	0.07	7	SSE	76.7	77.5	77.5	30.041	0	0	0	0.008	84.5	48	62.7	86	8.76	0.0718	23	1	100	1
9/26/2012	1:38 PM	76.8	76.8	76.7	60	61.9	3	S	0.05	5	SSE	76.8	77.6	77.6	30.039	0	0	0	0.008	84.7	48	62.8	86.2	8.76	0.0718	24	1	100	1
9/26/2012	1:39 PM	77	77	76.9	61	62.5	3	SSW	0.05	7	S	77	77.9	77.9	30.042	0	0	0	0.008	84.9	48	63	86.4	8.75	0.0718	21	1	91.3	1
9/26/2012	1:40 PM	77	77	77	60	62	4	S	0.07	6	S	77	77.8	77.8	30.043	0	0	0	0.008	84.9	48	63	86.4	8.75	0.0718	24	1	100	1
9/26/2012	1:41 PM	77.1	77.1	77	60	62.1	2	WSW	0.03	5	SW	77.1	77.9	77.9	30.041	0	0	0	0.008	85.1	48	63.2	86.6	8.75	0.0717	22	1	95.7	1
9/26/2012	1:42 PM	77.1	77.1	77.1	59	61.7	2	SW	0.03	4	W	77.1	77.8	77.8	30.042	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:43 PM	77.1	77.1	77.1	60	62.1	2	SW	0.03	3	SW	77.1	77.9	77.9	30.042	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	22	1	95.7	1
9/26/2012	1:44 PM	77.1	77.1	77.1	60	62.1	2	SSE	0.03	4	S	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:45 PM	77.1	77.1	77.1	60	62.1	4	W	0.07	6	SW	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	24	1	100	1
9/26/2012	1:46 PM	77.1	77.1	77	60	62.1	2	W	0.03	4	W	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:47 PM	77	77	77	60	62	2	SSW	0.03	6	WSW	77	77.8	77.8	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	24	1	100	1
9/26/2012	1:48 PM	77	77	77	59	61.6	2	SSW	0.03	3	SSW	77	77.7	77.7	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:49 PM	77	77	77	59	61.6	4	SSW	0.07	7	SSW	77	77.7	77.7	30.041	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	23	1	100	1
9/26/2012	1:50 PM	76.9	77	76.9	59	61.5	3	SSW	0.05	5	SSW	76.9	77.6	77.6	30.039	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	23	1	100	1
9/26/2012	1:51 PM	77	77	77	59	61.6	5	W	0.08	8	W	77	77.7	77.7	30.039	0	0	0	0.008	85.5	46	62.4	86.7	8.44	0.0717	23	1	100	1
9/26/2012	1:52 PM	76.9	76.9	76.9	60	62	4	WSW	0.07	6	WSW	76.9	77.7	77.7	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:53 PM	76.8	76.9	76.8	60	61.9	4	SW	0.07	5	WSW	76.8	77.6	77.6	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	23	1	100	1
9/26/2012	1:54 PM	76.7	76.7	76.7	60	61.8	3	WSW	0.05	8	W	76.7	77.5	77.5	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:55 PM	76.6	76.7	76.6	60	61.7	3	WNW	0.05	9	NW	76.6	77.4	77.4	30.038	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	23	1	100	1
9/26/2012	1:56 PM	76.6	76.6	76.6	60	61.7	6	WSW	0.1	11	WSW	76.6	77.4	77.4	30.039	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	23	1	100	1
9/26/2012	1:57 PM	76.5	76.6	76.5	60	61.6	6	W	0.1	10	W	76.5	77.3	77.3	30.039	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	24	1	100	1
9/26/2012	1:58 PM	76.3	76.5	76.3	60	61.4	6	WSW	0.1	9	WSW	76.3	77	77	30.04	0	0	0	0.008	85.1	46	62	86.3	8.45	0.0718	23	1	100	1
9/26/2012	1:59 PM	76.1	76.3	76.1	61	61.7	5	WSW	0.08	6	SW	76.1	76.9	76.9	30.039	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:00 PM	76	76.1	76	61	61.6	7	WNW	0.12	10	WNW	76	76.8	76.8	30.037	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:01 PM	76	76	76	61	61.6	4	SW	0.07	8	NW	76	76.8	76.8	30.037	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:02 PM	76	76	76	62	62	4	SW	0.07	5	NW	76	76.9	76.9	30.035	0	0	0	0.008	84.7	47	62.2	86	8.56	0.0718	24	1	100	1
9/26/2012	2:03 PM	76	76	76	61	61.6	4	S	0.07	7	S	76	76.8	76.8	30.034	0	0	0	0.008	84.7	47	62.2	86	8.56	0.0718	23	1	100	1
9/26/2012	2:04 PM	76.1	76.1	76	61	61.7	3	SSW	0.05	7	S	76.1	76.9	76.9	30.032	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	24	1	100	1
9/26/2012	2:05 PM	76.3	76.3	76.2	61	61.9	7	S	0.12	12	SW	76.3	77.1	77.1	30.032	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:06 PM	76.5	76.5	76.3	61	62	4	SSW	0.07	9	SW	76.5	77.3	77.3	30.035	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	24	1	100	1
9/26/2012	2:07 PM	76.6	76.6	76.5	60	61.7	2	S	0.03	7	SSW	76.6	77.4	77.4	30.037	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:08 PM	76.7	76.7	76.6	60	61.8	4	S	0.07	9	SW	76.7	77.5	77.5	30.038	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:09 PM	76.8	76.8	76.7	60	61.9	3	S	0.05	6	S	76.8	77.6	77.6	30.037	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	24	1	100	1
9/26/2012	2:10 PM	76.9	76.9	76.9	60	62	5	SW	0.08	7	SW	76.9	77.7	77.7	30.036	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:11 PM	77	77	76.9	59	61.6	4	WSW	0.07	6	W	77	77.7	77.7	30.037	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	24	1	100	1
9/26/2012	2:12 PM	76.9	77	76.9	59	61.5	6	WSW	0.1	8	WSW	76.9	77.6	77.6	30.035	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:13 PM	76.8	76.9	76.8	60	61.9	4	WSW	0.07	6	SSW	76.8	77.6	77.6	30.036	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:14 PM	76.7	76.8	76.7	60	61.8	3	W	0.05	5	WSW	76.7	77.5	77.5	30.036	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	24	1	100	1
9/26/2012	2:15 PM	76.7	76.8	76.7	60	61.8	5	WSW	0.08	8	W	76.7	77.5	77.5	30.034	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	23	1	100	1
9/26/2012	2:16 PM	76.7	76.7	76.7	60	61.8	4	W	0.07	7	W	76.7	77.5	77.5	30.037	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	24	1	100	1
9/26/2012	2:17 PM	76.7	76.7	76.7	60	61.8	5	SSW	0.08	8	S	76.7	77.5	77.5	30.037	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	23	1	100	1
9/26/2012	2:18 PM	76.7	76.8	76.7	59	61.3	5	W	0.08	8	SSW	76.7	77.4	77.4	30.036	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.0719	23	1	100	1
9/26/2012	2:19 PM	76.7	76.7	76.7	60	61.8	7	W	0.12	10	W	76.7	77.5	77.5	30.036	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.0719	24	1	100	1
9/26/2012	2:20 PM	76.6	76.7	76.6	60	61.7	3	SSW	0.05	7	SSW	76.6	77.4	77.4	30.038	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.072	23	1	100	1
9/26/2012	2:21 PM	76.6	76.7	76.6	60	61.7	3	SSW	0.05	6	SSW	76.6	77.4	77.4	30.036	0	0	0	0.008	83.7	47	61.3	84.9	8.58	0.072	24	1	100	1
9/26/2012	2:22 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	8	WSW	76.6	77.4	77.4	30.035	0	0	0	0.008	83.7	47	61.3	84.9	8.58	0.072	23	1	100	1
9/26/2012	2:23 PM	76.6	76.6	76.6	60	61.7	5	SSW	0.08	8	WNW	76.6	77.4	77.4	30.034	0	0	0	0.008	83.5	47	61.1	84.6	8.58	0.072	24	1	100	1
9/26/2012	2:24 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	7	W	76.6	77.4	77.4	30.032	0	0	0	0.008	83.5	47	61.1	84.6	8.58	0.072	22	1	95.7	1
9/26/2012	2:25 PM	76.6	76.6	76.6	60	61.7	4	SW	0.07	8	W	76.6	77.4	77.4	30.032	0	0	0	0.008	83.3	48	61.6	84.4	8.78	0.072	23	1	100	1
9/26/2012	2:26 PM	76.5	76.6	76.5	60	61.6	5	S	0.08	7	WSW	76.5	77.3	77.3	30.033	0	0	0	0.008	83.1	48	61.4	84.1	8.79	0.0721	23	1	100	1
9/26/2012	2:27 PM	76.5	76.5	76.5	60	61.6	5	W	0.08	10	WSW	76.5	77.3	77.3	30.034	0	0	0	0.008	83.1	48	61.4	84.1	8.79	0.0721	22	1	95.7	1
9/26/2012	2:28 PM	76.4	76.4	76.4	60	61.5	6	W	0.1	10	W	76.4	77.1	77.1	30.031	0	0	0	0.008	82.9	48	61.2	83.8	8.79	0.0721	24	1	100	1
9/26/2012	2:29 PM	76.3	76.4	76.3	60	61.4	3	S	0.05	5	WSW	76.3	77	77	30.031	0	0	0	0.008	82.7	48	61	83.4	8.8	0.0721	22	1	95.7	1
9/26/2012	2:30 PM	76.2	76.3	76.2	61	61.8	4	S	0.07	7	WSW	76.2	77	77	30.03	0	0	0	0.008	82.7	48	61	83.4	8.8	0.0721	23	1	100	1
9/26/2012	2:31 PM	76.2	76.3	76.2	61	61.8	4	S	0.07	6	SW	76.2	77	77	30.029	0	0	0	0.008	82.5	48	60.8	83.1	8.8	0.0721	23	1	100	1
9/26/2012	2:32 PM	76.3	76.3	76.3	61	61.9	3	NW	0.05	5	NW	76.3	77.1	77.1	30.03	0	0	0	0.008	82.5	48	60.8	83.1	8.8	0.0722	23	1	100	1
9/26/2012	2:33 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	5	S	76.3	77.1	77.1	30.031	0	0	0	0.008	82.3	48	60.6	82.8	8.8	0.0722	23	1	100	1
9/26/2012	2:34 PM	76.3	76.3	76.3	61	61.9	2	S	0.03	8	SSE	76.3	77.1	77.1	30.031	0	0	0	0.008	82.3	49	61.2	82.9	8.9	0.0722	23	1	100	1
9/26/2012	2:35 PM	76.3	76.3	76.3	61	61.9	5	SSW	0.08	11	S	76.3	77.1	77.1	30.03	0	0	0	0.008	82.1	49	61	82.6	8.91	0.0722	23	1	100	1
9/26/2012	2:36 PM	76.3	76.3	76.3	61	61.9	2	SSW	0.03	5	SSW	76.3	77.1	77.1	30.029	0	0	0	0.008	82.1	49	61	82.6	8.91	0.0722	23	1	100	1
9/26/2012	2:37 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	4	SW	76.3	77.1	77.1	30.029	0	0	0	0.008	82	49	61	82.5	8.91	0.0722	23	1	100	1
9/26/2012	2:38 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	7	SW	76.3	77.1	77.1	30.029	0	0	0	0.008	82	49	61	82.5	8.91	0.0722	24	1	100	1
9/26/2012	2:39 PM	76.2	76.3	76.2	61	61.8	4	W	0.07	7	W	76.2	77	77	30.027	0	0	0	0.008	81.8	49	60.8	82.2	8.91	0.0722	23	1	100	1
9/26/2012	2:40 PM	76.2	76.2	76.2	61	61.8	4	S	0.07	6	S	76.2	77	77	30.025	0	0	0	0.008	81.8	49	60.8	82.2	8.91	0.0722	24	1	100	1
9/26/2012	2:41 PM	76.1	76.2	76.1	61	61.7	4	SW	0.07	9	W	76.1	76.9	76.9	30.031	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:42 PM	76.1	76.1	76.1	61	61.7	4	WSW	0.07	6	SW	76.1	76.9	76.9	30.028	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:43 PM	76	76.1	76	61	61.6	2	SSW	0.03	3	SSW	76	76.8	76.8	30.029	0	0	0	0.008	81.4	49	60.4	81.6	8.92	0.0723	24	1	100	1
9/26/2012	2:44 PM	76	76.1	76	61	61.6	4	S	0.07	7	S	76	76.8	76.8	30.026	0	0	0	0.008	81.4	50	61	81.8	9.12	0.0723	23	1	100	1
9/26/2012	2:45 PM	76	76	76	61	61.6	4	SW	0.07	8	SW	76	76.8	76.8	30.024	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	24	1	100	1
9/26/2012	2:46 PM	75.9	76	75.9	61	61.5	3	S	0.05	7	S	75.9	76.7	76.7	30.025	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	23	1	100	1
9/26/2012	2:47 PM	75.9	76	75.9	62	61.9	2	NW	0.03	4	WNW	75.9	76.8	76.8	30.025	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0723	24	1	100	1
9/26/2012	2:48 PM	75.9	75.9	75.9	61	61.5	5	S	0.08	8	WSW	75.9	76.7	76.7	30.026	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0724	23	1	100	1
9/26/2012	2:49 PM	75.8	75.9	75.8	61	61.4	5	SW	0.08	7	SSW	75.8	76.6	76.6	30.027	0	0	0	0.008	80.8	50	60.4	81	9.13	0.0724	23	1	100	1
9/26/2012	2:50 PM	75.8	75.8	75.8	62	61.8	3	S	0.05	7	SSW	75.8	76.7	76.7	30.026	0	0	0	0.008	80.8	50	60.4	81	9.13	0.0724	24	1	100	1
9/26/2012	2:51 PM	75.7	75.8	75.7	62	61.8	4	SSW	0.07	7	SSW	75.7	76.6	76.6	30.024	0	0	0	0.007	80.6	50	60.2	80.8	9.14	0.0724	23	1	100	1
9/26/2012	2:52 PM	75.7	75.7	75.7	62	61.8	4	SSE	0.07	6	SSW	75.7	76.6	76.6	30.026	0	0	0	0.007	80.6	50	60.2	80.8	9.14	0.0724	24	1	100

Meteorological Data
Equity IRM

9/26/2012	4:12 PM	74.4	74.4	74.4	70	64	3	SE	0.05	4	SE	74.4	76	76	30.01	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	24	1	100	1
9/26/2012	4:13 PM	74.4	74.5	74.4	70	64	3	SE	0.05	5	SE	74.4	76	76	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:14 PM	74.4	74.4	74.4	70	64	2	SE	0.03	3	SE	74.4	76	76	30.006	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	24	1	100	1
9/26/2012	4:15 PM	74.5	74.5	74.4	70	64.1	3	SSW	0.05	5	SSW	74.5	76.1	76.1	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:16 PM	74.5	74.5	74.4	70	64.1	2	SSW	0.03	3	SSW	74.5	76.1	76.1	30.007	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:17 PM	74.4	74.4	74.4	70	64	0	SSW	0	1	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:18 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	2	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	23	1	100	1
9/26/2012	4:19 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	3	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:20 PM	74.4	74.4	74.4	70	64	2	SSW	0.03	3	SSW	74.4	76	76	30.007	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	23	1	100	1
9/26/2012	4:21 PM	74.5	74.5	74.4	70	64.1	2	SSW	0.03	3	SSW	74.5	76.1	76.1	30.007	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	24	1	100	1
9/26/2012	4:22 PM	74.4	74.4	74.4	70	64	0	SSW	0	2	SSW	74.4	76	76	30.006	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	22	1	95.7	1
9/26/2012	4:23 PM	74.4	74.5	74.4	71	64.4	2	SSW	0.03	3	SSW	74.4	76.1	76.1	30.007	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	23	1	100	1
9/26/2012	4:24 PM	74.5	74.5	74.4	71	64.5	2	SSW	0.03	3	SSW	74.5	76.2	76.2	30.01	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	24	1	100	1
9/26/2012	4:25 PM	74.5	74.5	74.4	71	64.5	1	SSW	0.02	2	SSW	74.5	76.2	76.2	30.01	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	23	1	100	1
9/26/2012	4:26 PM	74.5	74.5	74.4	71	64.5	0	SSW	0	1	SSW	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	24	1	100	1
9/26/2012	4:27 PM	74.5	74.5	74.5	71	64.5	2	S	0.03	3	S	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	23	1	100	1
9/26/2012	4:28 PM	74.5	74.5	74.5	71	64.5	2	SSE	0.03	3	SSE	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	22	1	95.7	1
9/26/2012	4:29 PM	74.5	74.5	74.5	71	64.5	1	SSE	0.02	3	SSE	74.5	76.2	76.2	30.012	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	23	1	100	1
9/26/2012	4:30 PM	74.6	74.6	74.5	71	64.6	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.013	0	0	0	0.007	78.6	54	60.6	79.1	9.78	0.0726	23	1	100	1
9/26/2012	4:31 PM	74.6	74.6	74.5	70	64.2	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.012	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	24	1	100	1
9/26/2012	4:32 PM	74.6	74.6	74.6	70	64.2	1	SSE	0.02	2	SSE	74.6	76.3	76.3	30.011	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	23	1	100	1
9/26/2012	4:33 PM	74.6	74.6	74.6	70	64.2	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.011	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	24	1	100	1
9/26/2012	4:34 PM	74.6	74.6	74.6	70	64.2	1	SSE	0.02	2	SSE	74.6	76.3	76.3	30.012	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	23	1	100	1
9/26/2012	4:35 PM	74.6	74.6	74.6	70	64.2	0	---	0	0	---	74.6	76.3	76.3	30.013	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	23	1	100	1
9/26/2012	4:36 PM	74.7	74.7	74.6	70	64.3	0	---	0	0	---	74.7	76.4	76.4	30.012	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	24	1	100	1
9/26/2012	4:37 PM	74.7	74.7	74.7	70	64.3	0	SSE	0	1	SSE	74.7	76.4	76.4	30.012	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	22	1	95.7	1
9/26/2012	4:38 PM	74.7	74.7	74.7	70	64.3	0	---	0	0	---	74.7	76.4	76.4	30.011	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	24	1	100	1
9/26/2012	4:39 PM	74.8	74.8	74.7	70	64.4	0	---	0	0	---	74.8	76.5	76.5	30.01	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0726	23	1	100	1
9/26/2012	4:40 PM	74.8	74.8	74.8	69	63.9	0	SSE	0	1	SSE	74.8	76.4	76.4	30.009	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	23	1	100	1
9/26/2012	4:41 PM	74.9	74.9	74.8	71	64.9	0	SSE	0	1	SSE	74.9	76.7	76.7	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:42 PM	74.9	74.9	74.9	70	64.5	0	---	0	0	---	74.9	76.6	76.6	30.01	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	22	1	95.7	1
9/26/2012	4:43 PM	74.9	74.9	74.9	70	64.5	0	SSE	0	1	SSE	74.9	76.6	76.6	30.01	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:44 PM	75	75	74.9	68	63.7	2	SW	0.03	5	SSW	75	76.5	76.5	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	22	1	95.7	1
9/26/2012	4:45 PM	75	75	75	67	63.3	4	WSW	0.07	5	SW	75	76.5	76.5	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:46 PM	75.1	75.1	75	67	63.4	2	WSW	0.03	4	WSW	75.1	76.6	76.6	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	23	1	100	1
9/26/2012	4:47 PM	75.2	75.2	75.1	69	64.3	3	NW	0.05	4	W	75.2	76.8	76.8	30.013	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	22	1	95.7	1
9/26/2012	4:48 PM	75.2	75.2	75.2	69	64.3	0	NW	0	1	NW	75.2	76.8	76.8	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	24	1	100	1
9/26/2012	4:49 PM	75.2	75.2	75.2	68	63.9	1	NW	0.02	2	NW	75.2	76.7	76.7	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	22	1	95.7	1
9/26/2012	4:50 PM	75.2	75.2	75.2	69	64.3	2	NW	0.03	4	NW	75.2	76.8	76.8	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	24	1	100	1
9/26/2012	4:51 PM	75.2	75.3	75.2	68	63.9	3	NW	0.05	5	NW	75.2	76.7	76.7	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	21	1	91.3	1
9/26/2012	4:52 PM	75.1	75.2	75.1	68	63.8	3	WSW	0.05	4	NNW	75.1	76.6	76.6	30.012	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	23	1	100	1
9/26/2012	4:53 PM	75.1	75.2	75.1	67	63.4	2	N	0.03	5	NNW	75.1	76.6	76.6	30.013	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	23	1	100	1
9/26/2012	4:54 PM	75	75.1	75	66	62.9	2	N	0.03	5	N	75	76.4	76.4	30.014	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	22	1	95.7	1
9/26/2012	4:55 PM	75.1	75.1	75.1	66	63	1	NNE	0.02	3	N	75.1	76.5	76.5	30.013	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	24	1	100	1
9/26/2012	4:56 PM	75.1	75.1	75	66	63	3	SW	0.05	6	WSW	75.1	76.5	76.5	30.013	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	22	1	95.7	1
9/26/2012	4:57 PM	75.1	75.1	75.1	66	63	3	SW	0.05	5	SW	75.1	76.5	76.5	30.013	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	23	1	100	1
9/26/2012	4:58 PM	75.1	75.1	75.1	66	63	3	SW	0.05	5	SW	75.1	76.5	76.5	30.014	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	23	1	100	1
9/26/2012	4:59 PM	75.2	75.2	75.1	66	63.1	1	SW	0.02	3	SW	75.2	76.6	76.6	30.013	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:00 PM	75.2	75.2	75.2	66	63.1	2	SW	0.03	4	WSW	75.2	76.6	76.6	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:01 PM	75.2	75.2	75.2	66	63.1	1	WSW	0.02	3	WSW	75.2	76.6	76.6	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:02 PM	75.2	75.2	75.2	67	63.5	3	WSW	0.05	4	WSW	75.2	76.7	76.7	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	24	1	100	1
9/26/2012	5:03 PM	75.2	75.2	75.2	66	63.1	1	NNW	0.02	2	NNW	75.2	76.6	76.6	30.016	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	23	1	100	1
9/26/2012	5:04 PM	75.1	75.1	75.1	66	63	1	NNW	0.02	4	NW	75.1	76.5	76.5	30.018	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	23	1	100	1
9/26/2012	5:05 PM	75.1	75.1	75.1	66	63	2	SW	0.03	3	NW	75.1	76.5	76.5	30.021	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	24	1	100	1
9/26/2012	5:06 PM	75.1	75.1	75.1	66	63	2	SSW	0.03	3	SW	75.1	76.5	76.5	30.02	0	0	0	0.007	77.2	55	59.8	77.5	9.96	0.0729	23	1	100	1
9/26/2012	5:07 PM	75.1	75.1	75.1	66	63	2	SSW	0.03	4	SSW	75.1	76.5	76.5	30.021	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	24	1	100	1
9/26/2012	5:08 PM	75.1	75.1	75.1	66	63	2	W	0.03	5	W	75.1	76.5	76.5	30.022	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	23	1	100	1
9/26/2012	5:09 PM	75.1	75.1	75.1	66	63	2	WNW	0.03	4	WNW	75.1	76.5	76.5	30.022	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	23	1	100	1
9/26/2012	5:10 PM	75.1	75.1	75.1	66	63	2	W	0.03	6	W	75.1	76.5	76.5	30.02	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	24	1	100	1
9/26/2012	5:11 PM	75.2	75.2	75.1	66	63.1	2	W	0.03	8	NNW	75.2	76.6	76.6	30.021	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	22	1	95.7	1
9/26/2012	5:12 PM	75.2	75.2	75.1	65	62.6	5	WNW	0.08	8	NNW	75.2	76.5	76.5	30.022	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	24	1	100	1
9/26/2012	5:13 PM	75.2	75.2	75.2	65	62.6	3	W	0.05	8	N	75.2	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:14 PM	75.2	75.2	75.2	65	62.6	4	NW	0.07	7	N	75.2	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	24	1	100	1
9/26/2012	5:15 PM	75.3	75.3	75.3	64	62.3	5	WNW	0.08	10	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:16 PM	75.3	75.3	75.3	64	62.3	5	N	0.08	9	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:17 PM	75.4	75.4	75.3	64	62.4	4	NW	0.07	7	WSW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	24	1	100	1
9/26/2012	5:18 PM	75.4	75.4	75.3	64	62.4	3	WSW	0.05	7	WSW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:19 PM	75.4	75.4	75.4	64	62.4	5	W	0.08	7	WNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:20 PM	75.5	75.5	75.4	63	62	6	WSW	0.1	12	WSW	75.5	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:21 PM	75.5	75.5	75.5	63	62	4	NW	0.07	8	WNW	75.5	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:22 PM	75.5	75.5	75.5	64	62.5	4	NW	0.07	6	NNW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	24	1	100	1
9/26/2012	5:23 PM	75.5	75.5	75.5	64	62.5	2	NW	0.03	5	WNW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:24 PM	75.5	75.5	75.5	64	62.5	2	NW	0.03	9	NNE	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:25 PM	75.5	75.5	75.5	64	62.5	5	NNW	0.08	9	NNW	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:26 PM	75.5	75.5	75.5	64	62.5	4	NNW	0.07	8	SW	75.5	76.7	76.7	30.024	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:27 PM	75.5	75.5	75.5	64	62.5	2	N	0.03	4	SW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:28 PM	75.5	75.5	75.4	64	62.5	1	SW	0.02	3	SW	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:29 PM	75.4	75.5	75.4	64	62.4	2	SW	0.03	5	WNW	75.4	76.6	76.6	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:30 PM	75.4	75.4	75.4	64	62.4	3	NNW	0.05	5	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	23	1	100	1
9/26/2012	5:31 PM	75.4	75.4	75.4	64	62.4	3	N	0.05	5	NNW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	24	1	100	1
9/26/2012	5:32 PM	75.4	75.4	75.4	64	62.4	2	NE	0.03	6	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	22	1	95.7	1
9/26/2012	5:33 PM	75.3	75.4	75.3	64	62.3	2	NW	0.03	5	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	23	1	100	1
9/26/2012	5:34 PM	75.4	75.4	75.3	64	62.4	4	NNW	0.07	7	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	24	1	100	1
9/26/2012	5:35 PM	75.4	75.4	75.3	64	62.4	3	NNW	0.05	5	NNW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:36 PM	75.3	75.3	75.3	64	62.3	2	NNW	0.03	3	NNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:37 PM	75.3	75.3	75.3	65	62.7	0	NNW	0	1	NNW	75.3	76.6	76.6	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:38 PM	75.3	75.3	75.3	64	62.3	1	NNW	0.02	3	NNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	24	1	100	1
9/26/2012	5:39 PM	75.3	75.3	75.3	64	62.3	4	N	0.07	5	WNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:40 PM	75.2	75.3	75.2	64	62.2	3	WSW	0.05	5	N	75.2	76.4	76.4	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	23	1	100	1
9/26/2012	5:41 PM	75.2	75.2	75.2	64	62.2	5	NNW	0.08	8	NW	75.2	76.4	76.4	30.025	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:42 PM	75.2	75.2	75.2	64	62.2	3	N	0.05	5	NW	75.2	76.4	76.4	30.027	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:43 PM	75.2	75.2	75.2	64	62.2	2	W	0.03	5	W	75.2	76.4	76.4	30.029	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:44 PM	75.2	75.2	75.2	63	61.7	2	SSW	0.03	5	W	75.2	76.3	76.3	30.028	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:45 PM	75.2	75.3	75.2	64	62.2	2	W	0.03	3	SW	75.2	76.4	76.4	30.029	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	22	1	95.7	1
9/26/2012	5:46 PM	75.2	75.2	75.2	64	62.2	3	W	0.05	7	WNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:47 PM	75.2	75.2	75.2	64	62.2	2	SW	0.03	4	NNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:48 PM	75.2	75.2	75.2	64	62.2	3	NNW	0.05	5	N	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:49 PM	75.2	75.2	75.2	64	62.2	2	NNW	0.03	3	NNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:50 PM	75.2	75.2	75.2	64	62.2	2	N	0.03	4	N	75.2	76.4	76.4	30.027	0	0	0	0.007	75.6	56	58.8	76.1	10.23	0.0732	23	1	100	1
9/26/2012	5:51 PM	75.1	75.2	75.1	64	62.1	1	N	0.02	4	N	75.1	76.3	76.3	30.027	0	0	0	0.007	75.6	56	58.8	76.1	10

Meteorological Data
Equity IRM

9/26/2012	7:12 PM	71.1	71.1	71	77	63.5	0	W	0	1	W	71.1	72.1	72.1	30.043	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:13 PM	71	71.1	71	78	63.8	3	WSW	0.05	5	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:14 PM	71	71.1	71	78	63.8	2	WSW	0.03	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:15 PM	71	71	71	78	63.8	3	NNE	0.05	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:16 PM	71	71	71	78	63.8	3	SW	0.05	6	SW	71	72.1	72.1	30.044	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:17 PM	71	71	71	77	63.4	3	WSW	0.05	5	SW	71	72	72	30.043	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	24	1	100	1
9/26/2012	7:18 PM	71	71	71	77	63.4	5	WSW	0.08	7	WSW	71	72	72	30.042	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:19 PM	71.1	71.1	71	77	63.5	5	W	0.08	7	W	71.1	72.1	72.1	30.044	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:20 PM	71.1	71.1	71.1	78	63.9	2	W	0.03	5	W	71.1	72.2	72.2	30.047	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:21 PM	71.1	71.1	71.1	77	63.5	5	W	0.08	8	NW	71.1	72.1	72.1	30.044	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	22	1	95.7	1
9/26/2012	7:22 PM	71.2	71.2	71.1	77	63.6	2	NW	0.03	5	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	24	1	100	1
9/26/2012	7:23 PM	71.2	71.2	71.2	77	63.6	5	W	0.08	8	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	22	1	95.7	1
9/26/2012	7:24 PM	71.2	71.2	71.2	77	63.6	4	W	0.07	8	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	24	1	100	1
9/26/2012	7:25 PM	71.2	71.2	71.2	77	63.6	1	W	0.02	2	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	22	1	95.7	1
9/26/2012	7:26 PM	71.2	71.2	71.2	77	63.6	2	W	0.03	4	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	23	1	100	1
9/26/2012	7:27 PM	71.2	71.3	71.2	77	63.6	3	WSW	0.05	5	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	23	1	100	1
9/26/2012	7:28 PM	71.2	71.3	71.2	77	63.6	1	WSW	0.02	3	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:29 PM	71.3	71.3	71.2	76	63.3	2	WSW	0.03	4	WSW	71.3	72.3	72.3	30.048	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:30 PM	71.3	71.3	71.3	77	63.7	3	N	0.05	6	NNW	71.3	72.3	72.3	30.049	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:31 PM	71.3	71.3	71.3	76	63.3	2	WNW	0.03	5	NW	71.3	72.3	72.3	30.049	0	0	0	0.004	71.1	59	56	70.5	10.91	0.074	23	1	100	1
9/26/2012	7:32 PM	71.3	71.3	71.3	76	63.3	0	WNW	0	2	WNW	71.3	72.3	72.3	30.051	0	0	0	0.004	71.1	59	56	70.5	10.91	0.074	24	1	100	1
9/26/2012	7:33 PM	71.4	71.4	71.3	76	63.4	2	WSW	0.03	5	WSW	71.4	72.4	72.4	30.053	0	0	0	0.004	71.1	60	56.5	70.6	11.03	0.074	23	1	100	1
9/26/2012	7:34 PM	71.4	71.4	71.4	76	63.4	2	SW	0.03	4	SW	71.4	72.4	72.4	30.053	0	0	0	0.004	70.9	60	56.3	70.4	11.03	0.074	24	1	100	1
9/26/2012	7:35 PM	71.4	71.4	71.4	75	63.1	2	SW	0.03	4	SW	71.4	72.3	72.3	30.052	0	0	0	0.004	70.9	60	56.3	70.4	11.03	0.074	23	1	100	1
9/26/2012	7:36 PM	71.5	71.5	71.4	75	63.2	3	SW	0.05	10	WNW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.9	60	56.3	70.4	11.03	0.074	24	1	100	1
9/26/2012	7:37 PM	71.5	71.5	71.5	75	63.2	2	SW	0.03	5	SW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.9	60	56.3	70.4	11.03	0.074	23	1	100	1
9/26/2012	7:38 PM	71.5	71.5	71.5	75	63.2	1	SW	0.02	3	SW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:39 PM	71.6	71.6	71.5	75	63.3	3	WNW	0.05	6	W	71.6	72.5	72.5	30.049	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	24	1	100	1
9/26/2012	7:40 PM	71.6	71.6	71.6	75	63.3	1	WNW	0.02	3	WNW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:41 PM	71.6	71.6	71.6	75	63.3	5	SW	0.08	8	SW	71.6	72.5	72.5	30.049	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	24	1	100	1
9/26/2012	7:42 PM	71.6	71.6	71.6	75	63.3	4	WSW	0.07	5	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:43 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	4	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:44 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	2	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.6	60	56	70	11.04	0.074	24	1	100	1
9/26/2012	7:45 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.051	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:46 PM	71.6	71.6	71.6	76	63.6	1	WSW	0.02	3	WSW	71.6	72.6	72.6	30.053	0	0	0	0.005	70.6	60	56	70	11.04	0.074	24	1	100	1
9/26/2012	7:47 PM	71.5	71.6	71.5	76	63.5	1	WSW	0.02	4	WSW	71.5	72.5	72.5	30.055	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:48 PM	71.5	71.6	71.5	76	63.5	2	WSW	0.03	4	WSW	71.5	72.5	72.5	30.055	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:49 PM	71.5	71.5	71.5	75	63.2	3	SW	0.05	6	WNW	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:50 PM	71.5	71.5	71.5	75	63.2	2	W	0.03	4	W	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:51 PM	71.5	71.5	71.5	75	63.2	3	WSW	0.05	4	W	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:52 PM	71.5	71.5	71.5	75	63.2	4	WSW	0.07	6	WSW	71.5	72.4	72.4	30.054	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:53 PM	71.5	71.5	71.5	76	63.5	3	W	0.05	7	SSW	71.5	72.5	72.5	30.056	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:54 PM	71.5	71.6	71.5	76	63.5	2	SSW	0.03	5	SW	71.5	72.5	72.5	30.056	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:55 PM	71.5	71.5	71.5	76	63.5	1	SW	0.02	4	SW	71.5	72.5	72.5	30.057	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:56 PM	71.5	71.5	71.5	76	63.5	2	SW	0.03	4	SW	71.5	72.5	72.5	30.057	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	7:57 PM	71.5	71.5	71.5	76	63.5	0	SW	0	2	SW	71.5	72.5	72.5	30.059	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	7:58 PM	71.5	71.5	71.5	76	63.5	3	SW	0.05	7	WSW	71.5	72.5	72.5	30.058	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	7:59 PM	71.5	71.5	71.5	76	63.5	1	W	0.02	3	W	71.5	72.5	72.5	30.06	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:00 PM	71.5	71.5	71.5	76	63.5	0	W	0	1	W	71.5	72.5	72.5	30.059	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:01 PM	71.5	71.5	71.5	76	63.5	1	W	0.02	3	W	71.5	72.5	72.5	30.057	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	8:02 PM	71.4	71.5	71.4	76	63.4	2	W	0.03	3	W	71.4	72.4	72.4	30.058	0	0	0	0.004	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:03 PM	71.4	71.4	71.4	76	63.4	1	W	0.02	2	W	71.4	72.4	72.4	30.056	0	0	0	0.004	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	8:04 PM	71.4	71.4	71.4	77	63.8	1	W	0.02	2	W	71.4	72.5	72.5	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:05 PM	71.3	71.4	71.3	77	63.7	2	W	0.03	4	W	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	24	1	100	1
9/26/2012	8:06 PM	71.3	71.3	71.3	76	63.3	3	N	0.05	5	NW	71.3	72.3	72.3	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:07 PM	71.3	71.3	71.3	76	63.3	3	NNW	0.05	5	NNW	71.3	72.3	72.3	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:08 PM	71.3	71.3	71.3	77	63.7	1	NNW	0.02	3	NNW	71.3	72.3	72.3	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:09 PM	71.3	71.3	71.3	76	63.3	3	NNW	0.05	4	NNW	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:10 PM	71.3	71.3	71.3	76	63.3	3	NW	0.05	4	NW	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:11 PM	71.4	71.4	71.3	76	63.4	4	WNW	0.07	6	WNW	71.4	72.4	72.4	30.057	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:12 PM	71.4	71.4	71.3	76	63.4	1	WNW	0.02	3	WNW	71.4	72.4	72.4	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:13 PM	71.4	71.4	71.4	76	63.4	0	WNW	0	3	WNW	71.4	72.4	72.4	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:14 PM	71.4	71.4	71.4	76	63.4	1	WNW	0.02	2	NW	71.4	72.4	72.4	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:15 PM	71.5	71.5	71.4	76	63.5	0	NW	0	2	NW	71.5	72.5	72.5	30.059	0	0	0	0.005	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:16 PM	71.5	71.5	71.4	76	63.5	1	NW	0.02	1	NW	71.5	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:17 PM	71.5	71.5	71.5	76	63.5	1	NW	0.02	2	NW	71.5	72.5	72.5	30.057	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:18 PM	71.5	71.5	71.5	76	63.5	0	NW	0	3	NW	71.5	72.5	72.5	30.056	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:19 PM	71.5	71.5	71.5	75	63.2	3	SW	0.05	4	NW	71.5	72.4	72.4	30.056	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	22	1	95.7	1
9/26/2012	8:20 PM	71.5	71.5	71.5	75	63.2	1	SW	0.02	3	SW	71.5	72.4	72.4	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:21 PM	71.5	71.5	71.5	75	63.2	2	SW	0.03	5	WSW	71.5	72.4	72.4	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:22 PM	71.6	71.6	71.5	75	63.3	2	W	0.03	4	W	71.6	72.5	72.5	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:23 PM	71.6	71.6	71.6	75	63.3	0	WSW	0	1	WSW	71.6	72.5	72.5	30.06	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:24 PM	71.6	71.6	71.6	75	63.3	0	WSW	0	1	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:25 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:26 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:27 PM	71.7	71.7	71.6	75	63.4	4	WSW	0.07	6	WSW	71.7	72.6	72.6	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:28 PM	71.7	71.7	71.7	75	63.4	3	WSW	0.05	4	WSW	71.7	72.6	72.6	30.061	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:29 PM	71.8	71.8	71.7	75	63.4	2	WSW	0.03	5	WSW	71.8	72.8	72.8	30.06	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:30 PM	71.8	71.8	71.8	74	63.1	2	WSW	0.03	3	WSW	71.8	72.7	72.7	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:31 PM	71.8	71.8	71.8	74	63.1	2	WSW	0.03	5	WSW	71.8	72.7	72.7	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:32 PM	71.8	71.9	71.8	75	63.4	3	SW	0.05	6	SW	71.8	72.8	72.8	30.059	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:33 PM	71.8	71.9	71.8	75	63.4	2	SW	0.03	4	SW	71.8	72.8	72.8	30.059	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:34 PM	71.9	71.9	71.8	74	63.2	3	SW	0.05	5	SW	71.9	72.8	72.8	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:35 PM	71.8	71.9	71.8	74	63.1	4	WSW	0.07	6	SW	71.8	72.7	72.7	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:36 PM	71.9	71.9	71.8	74	63.2	3	WSW	0.05	4	WSW	71.9	72.8	72.8	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:37 PM	71.8	71.8	71.8	75	63.4	4	WSW	0.07	7	WSW	71.8	72.8	72.8	30.057	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:38 PM	71.8	71.9	71.8	75	63.4	2	WSW	0.03	4	WSW	71.8	72.8	72.8	30.055	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:39 PM	71.8	71.8	71.8	75	63.4	3	W	0.05	6	W	71.8	72.8	72.8	30.055	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:40 PM	71.8	71.8	71.8	75	63.4	1	W	0.02	3	W	71.8	72.8	72.8	30.056	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:41 PM	71.7	71.8	71.7	75	63.4	3	W	0.05	4	W	71.7	72.6	72.6	30.055	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:42 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	4	W	71.7	72.6	72.6	30.054	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:43 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:44 PM	71.7	71.7	71.7	75	63.4	2	W	0.03	3	W	71.7	72.6	72.6	30.057	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:45 PM	71.7	71.7	71.6	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:46 PM	71.6	71.6	71.6	75	63.3	1	W	0.02	3	W	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:47 PM	71.6	71.6	71.6	75	63.3	2	W	0.03	6	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:48 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	6	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:49 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	3	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	24	1	100	1
9/26/2012	8:50 PM	71.5	71.6	71.5	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.06	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:51 PM	71.5	71.6	71.5	76	63.5	0	WSW	0	1	WSW	71.5	72.5	72.5	30.06	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	24	1	100	1
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Meteorological Data
Equity IRM

9/26/2012	10:12 PM	71	71	71	77	63.4	0	NNE	0	2	NNE	71	72	72	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	22	1	95.7	1
9/26/2012	10:13 PM	70.9	71	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:14 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:15 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:16 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	4	NNE	70.8	71.8	71.8	30.07	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:17 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	3	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:18 PM	70.7	70.8	70.7	77	63.1	3	NNE	0.05	4	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	24	1	100	1
9/26/2012	10:19 PM	70.7	70.7	70.7	76	62.8	2	NNE	0.03	5	NNE	70.7	71.5	71.5	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:20 PM	70.7	70.7	70.7	76	62.8	1	NNE	0.02	2	NNE	70.7	71.5	71.5	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	24	1	100	1
9/26/2012	10:21 PM	70.7	70.7	70.7	77	63.1	2	NNE	0.03	3	NNE	70.7	71.6	71.6	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:22 PM	70.7	70.7	70.7	77	63.1	2	NNE	0.03	3	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:23 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	2	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	24	1	100	1
9/26/2012	10:24 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	3	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:25 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.066	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	24	1	100	1
9/26/2012	10:26 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.065	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:27 PM	70.6	70.7	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.068	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	23	1	100	1
9/26/2012	10:28 PM	70.6	70.6	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.07	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	24	1	100	1
9/26/2012	10:29 PM	70.6	70.6	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.071	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	22	1	95.7	1
9/26/2012	10:30 PM	70.6	70.6	70.6	78	63.4	0	---	0	0	---	70.6	71.6	71.6	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	24	1	100	1
9/26/2012	10:31 PM	70.6	70.6	70.5	78	63.4	0	---	0	0	---	70.6	71.6	71.6	30.073	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0746	23	1	100	1
9/26/2012	10:32 PM	70.5	70.5	70.5	78	63.3	0	---	0	0	---	70.5	71.5	71.5	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	24	1	100	1
9/26/2012	10:33 PM	70.5	70.5	70.5	78	63.3	0	---	0	0	---	70.5	71.5	71.5	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	23	1	100	1
9/26/2012	10:34 PM	70.4	70.5	70.4	78	63.2	0	NNE	0	1	NNE	70.4	71.4	71.4	30.074	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	23	1	100	1
9/26/2012	10:35 PM	70.4	70.4	70.4	78	63.2	2	NNE	0.03	3	NNE	70.4	71.4	71.4	30.073	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	24	1	100	1
9/26/2012	10:36 PM	70.5	70.5	70.4	77	62.9	2	NNE	0.03	3	NNE	70.5	71.4	71.4	30.072	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	23	1	100	1
9/26/2012	10:37 PM	70.5	70.5	70.4	77	62.9	2	NNE	0.03	3	NNE	70.5	71.4	71.4	30.072	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	24	1	100	1
9/26/2012	10:38 PM	70.5	70.6	70.5	77	62.9	0	NNE	0	1	NNE	70.5	71.4	71.4	30.07	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	23	1	100	1
9/26/2012	10:39 PM	70.6	70.6	70.6	77	63	1	NNE	0.02	3	NNE	70.6	71.5	71.5	30.071	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	23	1	100	1
9/26/2012	10:40 PM	70.6	70.6	70.6	77	63	1	NNE	0.02	2	NNE	70.6	71.5	71.5	30.069	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	24	1	100	1
9/26/2012	10:41 PM	70.6	70.7	70.6	77	63	2	NNE	0.03	2	NNE	70.6	71.5	71.5	30.07	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:42 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	2	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:43 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	2	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:44 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:45 PM	70.7	70.7	70.7	76	62.8	1	NNE	0.02	2	NNE	70.7	71.5	71.5	30.067	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:46 PM	70.7	70.8	70.7	76	62.8	1	NNE	0.02	3	NNE	70.7	71.5	71.5	30.065	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	22	1	95.7	1
9/26/2012	10:47 PM	70.8	70.8	70.7	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:48 PM	70.8	70.8	70.8	76	62.9	1	NNE	0.02	3	NNE	70.8	71.7	71.7	30.069	0	0	0	0.004	67.2	60	52.8	66.7	11.05	0.0747	23	1	100	1
9/26/2012	10:49 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	23	1	100	1
9/26/2012	10:50 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.068	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	23	1	100	1
9/26/2012	10:51 PM	70.8	70.8	70.8	76	62.9	1	NNE	0.02	2	NNE	70.8	71.7	71.7	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	22	1	95.7	1
9/26/2012	10:52 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	3	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	24	1	100	1
9/26/2012	10:53 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	22	1	95.7	1
9/26/2012	10:54 PM	70.7	70.8	70.7	76	62.8	2	N	0.03	3	NNE	70.7	71.5	71.5	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	10:55 PM	70.8	70.8	70.7	77	63.2	2	N	0.03	4	N	70.8	71.8	71.8	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	22	1	95.7	1
9/26/2012	10:56 PM	70.8	70.8	70.7	76	62.9	1	N	0.02	2	N	70.8	71.7	71.7	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:57 PM	70.7	70.8	70.7	77	63.1	1	N	0.02	3	N	70.7	71.6	71.6	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:58 PM	70.8	70.8	70.7	77	63.2	1	N	0.02	2	N	70.8	71.8	71.8	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:59 PM	70.7	70.8	70.7	77	63.1	2	N	0.03	4	N	70.7	71.6	71.6	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:00 PM	70.7	70.7	70.7	77	63.1	1	N	0.02	2	N	70.7	71.6	71.6	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:01 PM	70.7	70.7	70.7	77	63.1	2	N	0.03	4	N	70.7	71.6	71.6	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:02 PM	70.7	70.7	70.7	77	63.1	1	N	0.02	4	N	70.7	71.6	71.6	30.073	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:03 PM	70.6	70.7	70.6	77	63	2	N	0.03	4	N	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:04 PM	70.6	70.6	70.6	77	63	2	N	0.03	4	SW	70.6	71.5	71.5	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:05 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	5	SW	70.6	71.5	71.5	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:06 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	4	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:07 PM	70.5	70.6	70.5	77	62.9	2	NW	0.03	3	NW	70.5	71.4	71.4	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:08 PM	70.5	70.5	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:09 PM	70.5	70.5	70.5	78	63.3	1	NW	0.02	3	NW	70.5	71.5	71.5	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:10 PM	70.5	70.5	70.5	77	62.9	4	WNW	0.07	10	W	70.5	71.4	71.4	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:11 PM	70.5	70.5	70.5	78	63.3	1	WNW	0.02	3	WNW	70.5	71.5	71.5	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:12 PM	70.5	70.5	70.4	77	62.9	2	W	0.03	3	W	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:13 PM	70.5	70.5	70.5	78	63.3	1	W	0.02	2	W	70.5	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:14 PM	70.5	70.5	70.5	78	63.3	3	W	0.05	7	WSW	70.5	71.5	71.5	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:15 PM	70.5	70.5	70.5	78	63.3	3	WNW	0.05	7	W	70.5	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:16 PM	70.5	70.5	70.4	77	62.9	4	WSW	0.07	6	WSW	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:17 PM	70.5	70.5	70.5	77	62.9	1	WSW	0.02	3	WSW	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:18 PM	70.5	70.5	70.5	77	62.9	1	WSW	0.02	2	WSW	70.5	71.4	71.4	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:19 PM	70.5	70.5	70.5	78	63.3	4	WSW	0.07	7	S	70.5	71.5	71.5	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:20 PM	70.5	70.5	70.5	77	62.9	4	W	0.07	7	SW	70.5	71.4	71.4	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:21 PM	70.6	70.6	70.5	77	63	2	WSW	0.03	5	W	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:22 PM	70.6	70.6	70.6	77	63	2	W	0.03	7	WNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:23 PM	70.7	70.7	70.6	77	63.1	5	WSW	0.08	9	W	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:24 PM	70.7	70.7	70.7	77	63.1	4	NW	0.07	6	WNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:25 PM	70.7	70.8	70.7	77	63.1	3	NW	0.05	5	WSW	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:26 PM	70.8	70.8	70.7	77	63.2	3	SW	0.05	5	W	70.8	71.8	71.8	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:27 PM	70.8	70.8	70.7	77	63.2	1	WSW	0.02	3	SW	70.8	71.8	71.8	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:28 PM	70.8	70.8	70.7	77	63.2	1	WSW	0.02	4	WNW	70.8	71.8	71.8	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:29 PM	70.7	70.7	70.7	77	63.1	2	WNW	0.03	3	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:30 PM	70.7	70.7	70.7	77	63.1	3	WNW	0.05	5	WNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:31 PM	70.7	70.7	70.7	77	63.1	5	WNW	0.08	8	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:32 PM	70.7	70.7	70.7	77	63.1	2	NW	0.03	4	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:33 PM	70.7	70.7	70.7	77	63.1	3	N	0.05	6	N	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:34 PM	70.7	70.7	70.7	77	63.1	3	NNW	0.05	5	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:35 PM	70.7	70.8	70.7	77	63.1	1	NNW	0.02	3	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:36 PM	70.7	70.7	70.7	77	63.1	0	NNW	0	1	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:37 PM	70.7	70.7	70.7	77	63.1	1	NNW	0.02	2	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:38 PM	70.7	70.7	70.7	77	63.1	0	NNW	0	2	NNW	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	21	1	91.3	1
9/26/2012	11:39 PM	70.7	70.7	70.6	77	63.1	1	NNW	0.02	3	NNW	70.7	71.6	71.6	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:40 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	4	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:41 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	3	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:42 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:43 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:44 PM	70.6	70.6	70.5	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:45 PM	70.5	70.6	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.068	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:46 PM	70.5	70.5	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.066	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:47 PM	70.5	70.5	70.5	78	63.3	2	NNW	0.03	4	NNW	70.5	71.5	71.5	30.067	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:48 PM	70.5	70.5	70.5	78	63.3	0	NNW	0	1	NNW	70.5	71.5	71.5	30.066	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:49 PM	70.5	70.5	70.5	77	62.9	2	NNW	0.03	3	NNW	70.5	71.4	71.4	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:50 PM	70.5	70.5	70.5	77	62.9	3	WSW	0.05	7	W	70.5	71.4	71.4	30.067	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:51 PM	70.6	70.6	70.5	77	63	0	WSW	0	1	WSW	70.6	71.5	71.5	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
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Meteorological Data
Equity IRM

9/27/2012	1:12 AM	70.2	70.2	70.2	79	63.4	2	WSW	0.03	4	WSW	70.2	71.2	71.2	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	23	1	100	1
9/27/2012	1:13 AM	70.1	70.2	70.1	79	63.3	1	WSW	0.02	2	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:14 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	3	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	22	1	95.7	1
9/27/2012	1:15 AM	70.1	70.1	70.1	79	63.3	0	WSW	0	1	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:16 AM	70	70.1	70	79	63.2	2	WSW	0.03	4	WSW	70	71	71	30.056	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	1:17 AM	70	70	70	80	63.5	2	WSW	0.03	4	WSW	70	71.1	71.1	30.06	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:18 AM	70	70	70	80	63.5	3	WSW	0.05	4	WSW	70	71.1	71.1	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:19 AM	69.9	70	69.9	79	63.1	2	WSW	0.03	4	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:20 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	5	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:21 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	3	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:22 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	1:23 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	1:24 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	2	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:25 AM	69.9	69.9	69.9	79	63.1	1	WSW	0.02	2	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:26 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:27 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.058	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:28 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	1:29 AM	69.9	69.9	69.9	80	63.4	1	WSW	0.02	3	WSW	69.9	71	71	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:30 AM	69.8	69.9	69.8	80	63.3	0	---	0	0	---	69.8	71	71	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	24	1	100	1
9/27/2012	1:31 AM	69.8	69.8	69.8	80	63.3	1	WSW	0.02	3	WSW	69.8	71	71	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:32 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	5	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:33 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	5	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:34 AM	69.8	69.8	69.8	80	63.3	1	WSW	0.02	2	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:35 AM	69.8	69.8	69.8	80	63.3	2	WSW	0.03	3	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:36 AM	69.8	69.8	69.8	80	63.3	2	WSW	0.03	4	WSW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:37 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	6	WSW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:38 AM	69.8	69.8	69.8	80	63.3	3	NE	0.05	6	WNW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:39 AM	69.8	69.8	69.8	80	63.3	2	SW	0.03	4	W	69.8	71	71	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:40 AM	69.8	69.8	69.8	79	63	1	SW	0.02	2	SW	69.8	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:41 AM	69.9	69.9	69.8	80	63.4	2	SW	0.03	6	WSW	69.9	71	71	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:42 AM	69.9	69.9	69.8	79	63.1	3	WSW	0.05	6	WSW	69.9	70.9	70.9	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:43 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	4	WSW	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:44 AM	69.9	69.9	69.9	79	63.1	2	S	0.03	5	S	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:45 AM	69.9	69.9	69.9	79	63.1	4	WSW	0.07	8	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:46 AM	69.9	69.9	69.9	79	63.1	4	WSW	0.07	7	SW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:47 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	5	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:48 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	5	WSW	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:49 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	4	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:50 AM	69.9	69.9	69.9	79	63.1	4	W	0.07	6	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:51 AM	69.9	70	69.9	79	63.1	2	W	0.03	5	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:52 AM	69.9	70	69.9	79	63.1	2	WSW	0.03	5	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:53 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.065	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:54 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:55 AM	70	70	70	79	63.2	1	WSW	0.02	2	WSW	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:56 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.065	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:57 AM	70	70.1	70	79	63.2	1	WSW	0.02	2	W	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:58 AM	70	70	70	79	63.2	2	WSW	0.03	2	WSW	70	71	71	30.066	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:59 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.067	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:00 AM	70	70	70	79	63.2	3	SW	0.05	6	SW	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:01 AM	70	70	70	79	63.2	1	SW	0.02	3	SW	70	71	71	30.067	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:02 AM	70	70.1	70	79	63.2	3	WNW	0.05	6	NNE	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:03 AM	70	70	70	79	63.2	2	NNE	0.03	4	NW	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:04 AM	70	70	70	79	63.2	0	NW	0	2	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:05 AM	70	70.1	70	79	63.2	1	NW	0.02	3	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:06 AM	70	70	70	79	63.2	0	NW	0	1	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	2:07 AM	70	70	70	80	63.5	2	N	0.03	4	NNW	70	71.1	71.1	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:08 AM	70	70	70	80	63.5	1	N	0.02	3	N	70	71.1	71.1	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:09 AM	69.9	70	69.9	80	63.4	0	N	0	1	N	69.9	71	71	30.065	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:10 AM	69.9	69.9	69.9	80	63.4	0	N	0	1	N	69.9	71	71	30.064	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:11 AM	69.9	69.9	69.9	79	63.1	1	NNW	0.02	3	NNW	69.9	70.9	70.9	30.065	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:12 AM	69.9	69.9	69.9	79	63.1	0	NNW	0	1	NNW	69.9	70.9	70.9	30.064	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:13 AM	69.9	69.9	69.9	80	63.4	0	NNW	0	1	NNW	69.9	71	71	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:14 AM	69.9	69.9	69.9	80	63.4	1	NW	0.02	3	NW	69.9	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:15 AM	69.9	69.9	69.9	80	63.4	4	SW	0.07	7	WSW	69.9	71	71	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:16 AM	69.9	69.9	69.8	79	63.1	4	WSW	0.07	7	WSW	69.9	70.9	70.9	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:17 AM	69.9	69.9	69.9	79	63.1	3	W	0.05	7	W	69.9	70.9	70.9	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	21	1	91.3	1
9/27/2012	2:18 AM	70	70	70	79	63.2	3	SW	0.05	5	WSW	70	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:19 AM	70	70	70	79	63.2	4	SW	0.07	6	SW	70	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:20 AM	70.1	70.1	70	79	63.3	2	WSW	0.03	4	WSW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:21 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	5	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:22 AM	70.1	70.1	70.1	79	63.3	3	SW	0.05	5	SW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:23 AM	70.1	70.1	70.1	79	63.3	2	SW	0.03	3	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:24 AM	70.1	70.1	70.1	79	63.3	3	WSW	0.05	6	WSW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:25 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	4	WSW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:26 AM	70.1	70.1	70.1	79	63.3	3	WSW	0.05	7	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:27 AM	70.1	70.1	70.1	79	63.3	2	NW	0.03	4	NW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:28 AM	70.1	70.1	70.1	79	63.3	2	SW	0.03	3	WSW	70.1	71.1	71.1	30.061	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:29 AM	70.1	70.1	70.1	79	63.3	3	W	0.05	4	SW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:30 AM	70.1	70.1	70.1	78	62.9	2	WNW	0.03	3	WNW	70.1	71	71	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:31 AM	70.1	70.1	70.1	79	63.3	2	WNW	0.03	4	WNW	70.1	71.1	71.1	30.061	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:32 AM	70.1	70.1	70.1	79	63.3	2	W	0.03	4	W	70.1	71.1	71.1	30.062	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:33 AM	70.1	70.1	70.1	78	62.9	1	W	0.02	3	W	70.1	71	71	30.063	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:34 AM	70.1	70.1	70.1	79	63.3	4	WNW	0.07	6	WNW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:35 AM	70.1	70.1	70.1	79	63.3	1	WNW	0.02	3	WNW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:36 AM	70	70.1	70	79	63.2	2	SW	0.03	6	SW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:37 AM	70	70	70	79	63.2	2	SW	0.03	4	SW	70	71	71	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:38 AM	69.9	70	69.9	79	63.1	1	SW	0.02	2	SW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:39 AM	69.9	69.9	69.9	79	63.1	2	SW	0.03	4	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:40 AM	69.9	69.9	69.9	79	63.1	2	W	0.03	4	W	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:41 AM	69.8	69.9	69.8	79	63	1	W	0.02	4	NNW	69.8	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:42 AM	69.8	69.8	69.8	79	63	3	NNW	0.05	4	NNW	69.8	70.9	70.9	30.06	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:43 AM	69.8	69.8	69.8	80	63.3	0	NNE	0	1	NNE	69.8	71	71	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:44 AM	69.7	69.8	69.7	80	63.3	2	NNW	0.03	5	NW	69.7	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:45 AM	69.7	69.7	69.7	80	63.3	2	NNW	0.03	3	NNW	69.7	70.9	70.9	30.062	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:46 AM	69.7	69.7	69.7	79	62.9	2	NNW	0.03	5	SW	69.7	70.8	70.8	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:47 AM	69.7	69.7	69.6	80	63.3	1	SW	0.02	3	WSW	69.7	70.9	70.9	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:48 AM	69.6	69.7	69.6	79	62.8	2	WSW	0.03	3	WSW	69.6	70.8	70.8	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:49 AM	69.7	69.7	69.6	79	62.9	1	WSW	0.02	3	WSW	69.7	70.8	70.8	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	24	1	100	1
9/27/2012	2:50 AM	69.7	69.7	69.6	79	62.9	3	NNW	0.05	7	NNW	69.7	70.8	70.8	30.057	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:51 AM	69.7	69.7	69.7	79	62.9	1	NNW	0.02	2	NNW	69.7	70.8	70.8	30.056	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:52 AM	69.7	69.7	69.7	79	62.9	1	NNW	0.02	3	NNW	69.7	70.8	70.8	30.056	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100

Meteorological Data
Equity IRM

9/27/2012	4:12 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:13 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:14 AM	69.1	69.2	69.1	80	62.7	3	NNW	0.05	4	NNW	69.1	70.6	70.6	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:15 AM	69.1	69.2	69.1	80	62.7	3	NW	0.05	5	NW	69.1	70.6	70.6	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:16 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:17 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:18 AM	69	69.1	69	80	62.6	2	N	0.03	4	NNW	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:19 AM	69	69.1	69	80	62.6	3	N	0.05	4	N	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:20 AM	69	69.1	69	80	62.6	2	N	0.03	3	N	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:21 AM	69.1	69.1	69	80	62.7	1	N	0.02	3	N	69.1	70.6	70.6	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:22 AM	69	69.1	69	80	62.6	3	N	0.05	5	N	69	70.5	70.5	30.062	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:23 AM	69	69	69	79	62.2	3	NW	0.05	4	NW	69	70.4	70.4	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:24 AM	69	69	69	79	62.2	3	WNW	0.05	6	W	69	70.4	70.4	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:25 AM	69.1	69.1	69	79	62.3	1	WNW	0.02	5	WNW	69.1	70.5	70.5	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:26 AM	69.1	69.1	69.1	80	62.7	1	WNW	0.02	3	WNW	69.1	70.6	70.6	30.066	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:27 AM	69.1	69.1	69.1	79	62.3	4	WNW	0.07	6	NW	69.1	70.5	70.5	30.067	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:28 AM	69.1	69.1	69.1	79	62.3	3	NW	0.05	7	NNW	69.1	70.5	70.5	30.068	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:29 AM	69.1	69.1	69.1	79	62.3	4	NNW	0.07	8	NNW	69.1	70.5	70.5	30.071	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:30 AM	69.1	69.1	69.1	79	62.3	3	N	0.05	6	N	69.1	70.5	70.5	30.072	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:31 AM	69.1	69.1	69.1	79	62.3	2	WSW	0.03	4	WSW	69.1	70.5	70.5	30.069	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:32 AM	69.1	69.1	69.1	80	62.7	2	NW	0.03	5	NNW	69.1	70.6	70.6	30.071	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:33 AM	69.1	69.1	69.1	79	62.3	2	NW	0.03	3	NW	69.1	70.5	70.5	30.073	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:34 AM	69.1	69.1	69.1	79	62.3	1	NW	0.02	3	NW	69.1	70.5	70.5	30.073	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:35 AM	69.1	69.1	69.1	79	62.3	1	NW	0.02	3	NW	69.1	70.5	70.5	30.074	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:36 AM	69.1	69.1	69	80	62.7	2	NW	0.03	3	NW	69.1	70.6	70.6	30.075	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:37 AM	69	69	69	80	62.6	3	NW	0.05	5	NW	69	70.5	70.5	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:38 AM	69	69	69	80	62.6	2	WSW	0.03	3	WSW	69	70.5	70.5	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:39 AM	69	69	68.9	80	62.6	2	WNW	0.03	4	WNW	69	70.5	70.5	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:40 AM	68.9	69	68.9	80	62.5	1	WNW	0.02	2	WNW	68.9	70.4	70.4	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:41 AM	68.9	68.9	68.9	80	62.5	3	N	0.05	5	N	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:42 AM	68.9	68.9	68.9	80	62.5	3	NNW	0.05	4	NNW	68.9	70.4	70.4	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:43 AM	68.9	68.9	68.9	80	62.5	1	NNW	0.02	3	NNW	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:44 AM	68.9	68.9	68.9	81	62.8	2	NNW	0.03	3	NNW	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:45 AM	68.8	68.8	68.8	81	62.7	3	NNW	0.05	4	W	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:46 AM	68.8	68.8	68.8	80	62.4	2	WSW	0.03	4	WSW	68.8	70.3	70.3	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:47 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	3	N	68.8	70.3	70.3	30.079	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:48 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	4	SW	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	21	1	91.3	1
9/27/2012	4:49 AM	68.8	68.8	68.7	80	62.4	2	W	0.03	4	W	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:50 AM	68.7	68.7	68.7	80	62.3	4	NNW	0.07	6	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:51 AM	68.7	68.8	68.7	80	62.3	2	NNW	0.03	4	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:52 AM	68.7	68.8	68.7	80	62.3	1	WNW	0.02	4	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:53 AM	68.8	68.8	68.7	81	62.7	3	WNW	0.05	4	NW	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:54 AM	68.7	68.7	68.7	81	62.6	2	WNW	0.03	4	WNW	68.7	70.2	70.2	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:55 AM	68.7	68.7	68.7	81	62.6	4	WNW	0.07	6	NW	68.7	70.2	70.2	30.079	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:56 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.08	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:57 AM	68.6	68.6	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.081	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:58 AM	68.6	68.6	68.6	81	62.5	3	NW	0.05	4	NW	68.6	70.1	70.1	30.081	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:59 AM	68.6	68.6	68.6	81	62.5	1	NW	0.02	2	NW	68.6	70.1	70.1	30.082	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	5:00 AM	68.6	68.6	68.6	80	62.2	2	ENE	0.03	4	ENE	68.6	70	70	30.082	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	5:01 AM	68.7	68.7	68.6	80	62.3	3	ENE	0.05	5	NNW	68.7	70.1	70.1	30.083	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	5:02 AM	68.7	68.7	68.7	80	62.3	2	NNW	0.03	5	NNW	68.7	70.1	70.1	30.085	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:03 AM	68.8	68.8	68.8	80	62.4	4	NNW	0.07	6	NNW	68.8	70.3	70.3	30.084	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:04 AM	68.8	68.8	68.8	80	62.4	4	NNW	0.07	6	NNW	68.8	70.3	70.3	30.085	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:05 AM	68.8	68.8	68.8	80	62.4	5	NW	0.08	9	NNW	68.8	70.3	70.3	30.084	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:06 AM	68.8	68.8	68.8	80	62.4	5	NNW	0.08	8	NW	68.8	70.3	70.3	30.087	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:07 AM	68.8	68.8	68.8	80	62.4	5	N	0.08	9	NNW	68.8	70.3	70.3	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:08 AM	68.8	68.9	68.8	80	62.4	3	WNW	0.05	5	WNW	68.8	70.3	70.3	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:09 AM	68.9	68.9	68.9	80	62.5	4	NNE	0.07	5	N	68.9	70.4	70.4	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:10 AM	68.9	68.9	68.9	80	62.5	4	N	0.07	6	NW	68.9	70.4	70.4	30.09	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:11 AM	68.9	68.9	68.8	80	62.5	4	NW	0.07	6	NW	68.9	70.4	70.4	30.092	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:12 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	5	N	68.8	70.3	70.3	30.097	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:13 AM	68.8	68.8	68.8	80	62.4	3	N	0.05	5	N	68.8	70.3	70.3	30.096	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:14 AM	68.8	68.8	68.8	81	62.7	3	NW	0.05	4	N	68.8	70.3	70.3	30.097	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:15 AM	68.8	68.8	68.8	81	62.7	3	WNW	0.05	7	NNW	68.8	70.3	70.3	30.1	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:16 AM	68.7	68.8	68.7	80	62.3	3	NW	0.05	7	N	68.7	70.1	70.1	30.102	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:17 AM	68.7	68.8	68.7	81	62.6	2	NW	0.03	3	NW	68.7	70.2	70.2	30.103	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:18 AM	68.7	68.7	68.7	81	62.6	3	NW	0.05	5	NW	68.7	70.2	70.2	30.104	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:19 AM	68.7	68.7	68.7	81	62.6	2	NW	0.03	4	NW	68.7	70.2	70.2	30.103	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:20 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	6	NW	68.6	70.1	70.1	30.103	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:21 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.103	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:22 AM	68.6	68.6	68.6	81	62.5	1	NW	0.02	2	NW	68.6	70.1	70.1	30.105	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:23 AM	68.5	68.6	68.5	82	62.8	2	NW	0.03	4	NW	68.5	70	70	30.105	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:24 AM	68.5	68.5	68.5	82	62.8	1	NW	0.02	3	NW	68.5	70	70	30.104	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:25 AM	68.4	68.5	68.4	82	62.7	2	NNE	0.03	6	NNE	68.4	69.9	69.9	30.105	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	22	1	95.7	1
9/27/2012	5:26 AM	68.3	68.4	68.3	82	62.6	3	NNW	0.05	5	NW	68.3	69.8	69.8	30.105	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:27 AM	68.3	68.3	68.3	83	62.9	5	NW	0.08	8	N	68.3	69.8	69.8	30.108	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:28 AM	68.2	68.3	68.2	82	62.5	3	NNW	0.05	5	NNW	68.2	69.6	69.6	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:29 AM	68.2	68.2	68.1	83	62.8	3	W	0.05	6	W	68.2	69.7	69.7	30.103	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:30 AM	68.1	68.1	68.1	83	62.7	1	W	0.02	3	W	68.1	69.5	69.5	30.103	0.01	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:31 AM	68.1	68.1	68.1	83	62.7	1	W	0.02	3	W	68.1	69.5	69.5	30.104	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:32 AM	68	68.1	68	84	63	2	W	0.03	3	W	68	69.5	69.5	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	22	1	95.7	1
9/27/2012	5:33 AM	68	68	68	84	63	1	W	0.02	2	W	68	69.5	69.5	30.106	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:34 AM	67.9	68	67.9	83	62.5	0	W	0	1	W	67.9	69.3	69.3	30.1	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.075	22	1	95.7	1
9/27/2012	5:35 AM	67.9	67.9	67.9	84	62.9	1	W	0.02	2	W	67.9	69.3	69.3	30.1	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.075	23	1	100	1
9/27/2012	5:36 AM	67.9	67.9	67.9	84	62.9	3	WNW	0.05	5	WNW	67.9	69.3	69.3	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:37 AM	67.8	67.8	67.8	85	63.1	1	NW	0.02	4	NNW	67.8	69.3	69.3	30.111	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:38 AM	67.7	67.8	67.7	85	63	0	NW	0	2	NW	67.7	69.1	69.1	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:39 AM	67.7	67.7	67.7	85	63	2	NW	0.03	4	NW	67.7	69.1	69.1	30.11	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:40 AM	67.6	67.7	67.6	84	62.6	2	NW	0.03	4	NW	67.6	69	69	30.113	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:41 AM	67.6	67.6	67.6	85	62.9	1	NW	0.02	3	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	22	1	95.7	1
9/27/2012	5:42 AM	67.6	67.6	67.6	85	62.9	0	NW	0	1	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:43 AM	67.6	67.6	67.6	86	63.3	1	NW	0.02	3	NW	67.6	69.1	69.1	30.119	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:44 AM	67.5	67.5	67.5	85	62.8	1	NW	0.02	3	NW	67.5	68.9	68.9	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:45 AM	67.4	67.5	67.4	85	62.7	1	NW	0.02	2	NW	67.4	68.8	68.8	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:46 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:47 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:48 AM	67.4	67.4	67.4	86	63.1	0	---	0	0	---	67.4	68.8	68.8	30.107	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:49 AM	67.3	67.4	67.3	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.106	0.01	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:50 AM	67.3	67.3	67.3	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.105	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/27/2012	5:51 AM	67.3	67.3	67.2	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.109	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012

Meteorological Data
Equity IRM

9/27/2012	7:12 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:13 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	61	50.7	63.7	11.25	0.0753	23	1	100	1
9/27/2012	7:14 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	62	51.2	63.8	11.45	0.0753	24	1	100	1
9/27/2012	7:15 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/27/2012	7:16 AM	66.9	67	66.9	86	62.6	0	---	0	0	---	66.9	68.2	68.2	30.132	0	0	0	0.001	64.5	64	52	64	11.76	0.0753	23	1	100	1
9/27/2012	7:17 AM	67	67	66.9	87	63	0	---	0	0	---	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:18 AM	67	67	67	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.13	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0752	22	1	95.7	1
9/27/2012	7:19 AM	67	67	67	88	63.3	0	NNW	0	1	NNW	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:20 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.129	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0752	22	1	95.7	1
9/27/2012	7:21 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.13	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:22 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.132	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:23 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.135	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:24 AM	67	67	67	88	63.3	0	NNW	0	1	NNW	67	68.4	68.4	30.136	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:25 AM	67	67	66.9	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.135	0	0	0	0.001	64.9	64	52.4	64.5	11.75	0.0752	22	1	95.7	1
9/27/2012	7:26 AM	67	67	66.9	87	63	0	NNW	0	2	NNW	67	68.4	68.4	30.137	0	0	0	0.001	64.9	64	52.4	64.5	11.75	0.0752	24	1	100	1
9/27/2012	7:27 AM	67	67	67	87	63	0	---	0	0	---	67	68.4	68.4	30.137	0	0	0	0.001	64.9	65	52.8	64.6	11.95	0.0752	22	1	95.7	1
9/27/2012	7:28 AM	67	67	67	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.139	0	0	0	0.001	64.9	65	52.8	64.6	11.95	0.0752	23	1	100	1
9/27/2012	7:29 AM	67	67	67	87	63	0	NNW	0	2	NNW	67	68.4	68.4	30.139	0	0	0	0.001	65.1	66	53.5	64.9	12.15	0.0751	23	1	100	1
9/27/2012	7:30 AM	67.1	67.1	67	87	63.1	0	---	0	0	---	67.1	68.5	68.5	30.141	0	0	0	0.001	65.1	66	53.5	64.9	12.15	0.0751	23	1	100	1
9/27/2012	7:31 AM	67.2	67.2	67.1	87	63.2	1	NNW	0.02	2	NNW	67.2	68.6	68.6	30.144	0	0	0	0.002	65.1	67	53.9	64.9	12.45	0.0751	23	1	100	1
9/27/2012	7:32 AM	67.3	67.3	67.2	86	63	1	NNW	0.02	3	NNW	67.3	68.7	68.7	30.147	0	0	0	0.002	65.1	68	54.3	65	12.75	0.0751	23	1	100	1
9/27/2012	7:33 AM	67.4	67.4	67.4	86	63.1	0	NNW	0	1	NNW	67.4	68.8	68.8	30.148	0	0	0	0.002	65.3	67	54.1	65.2	12.44	0.0751	22	1	95.7	1
9/27/2012	7:34 AM	67.5	67.5	67.4	86	63.2	1	NNW	0.02	3	NNW	67.5	68.9	68.9	30.151	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:35 AM	67.5	67.5	67.5	86	63.2	2	NW	0.03	4	NW	67.5	68.9	68.9	30.151	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:36 AM	67.6	67.6	67.5	85	62.9	1	NW	0.02	2	NW	67.6	69	69	30.154	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	24	1	100	1
9/27/2012	7:37 AM	67.6	67.6	67.5	85	62.9	1	SW	0.02	2	SW	67.6	69	69	30.155	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:38 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	3	SW	67.6	69	69	30.157	0	0	0	0.002	65.4	68	54.6	65.3	12.73	0.0751	24	1	100	1
9/27/2012	7:39 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	2	WSW	67.6	69	69	30.159	0	0	0	0.002	65.4	68	54.6	65.3	12.73	0.0751	23	1	100	1
9/27/2012	7:40 AM	67.7	67.7	67.6	85	63	1	W	0.02	3	W	67.7	69.1	69.1	30.159	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	22	1	95.7	1
9/27/2012	7:41 AM	67.7	67.7	67.6	85	63	0	W	0	2	W	67.7	69.1	69.1	30.16	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	24	1	100	1
9/27/2012	7:42 AM	67.7	67.7	67.7	85	63	0	W	0	1	W	67.7	69.1	69.1	30.16	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	23	1	100	1
9/27/2012	7:43 AM	67.7	67.7	67.7	85	63	1	W	0.02	4	W	67.7	69.1	69.1	30.159	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	24	1	100	1
9/27/2012	7:44 AM	67.7	67.7	67.7	84	62.7	1	W	0.02	2	W	67.7	69.1	69.1	30.158	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	23	1	100	1
9/27/2012	7:45 AM	67.8	67.8	67.7	84	62.8	2	W	0.03	5	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:46 AM	67.8	67.8	67.8	84	62.8	1	W	0.02	3	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	24	1	100	1
9/27/2012	7:47 AM	67.8	67.8	67.8	84	62.8	0	W	0	1	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	23	1	100	1
9/27/2012	7:48 AM	67.9	67.9	67.8	84	62.9	1	W	0.02	3	W	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	24	1	100	1
9/27/2012	7:49 AM	67.9	67.9	67.9	84	62.9	2	W	0.03	4	N	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:50 AM	67.9	67.9	67.9	84	62.9	1	N	0.02	3	N	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	24	1	100	1
9/27/2012	7:51 AM	67.9	67.9	67.9	84	62.9	0	N	0	1	N	67.9	69.3	69.3	30.158	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:52 AM	67.9	67.9	67.9	84	62.9	2	N	0.03	3	N	67.9	69.3	69.3	30.16	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:53 AM	67.9	67.9	67.9	84	62.9	1	N	0.02	4	WNW	67.9	69.3	69.3	30.159	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:54 AM	68	68	67.9	84	63	1	W	0.02	3	W	68	69.5	69.5	30.16	0	0	0	0.002	65.8	71	56.1	66	13.53	0.075	23	1	100	1
9/27/2012	7:55 AM	68	68	68	84	63	2	W	0.03	3	W	68	69.5	69.5	30.159	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:56 AM	68	68	68	84	63	2	W	0.03	4	W	68	69.5	69.5	30.156	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:57 AM	68	68	68	84	63	1	W	0.02	3	W	68	69.5	69.5	30.155	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:58 AM	68	68	68	84	63	1	W	0.02	4	W	68	69.5	69.5	30.157	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:59 AM	68	68	68	84	63	2	W	0.03	4	W	68	69.5	69.5	30.157	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:00 AM	68	68	68	84	63	3	WSW	0.05	5	W	68	69.5	69.5	30.159	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:01 AM	67.9	68	67.9	84	62.9	3	W	0.05	6	W	67.9	69.3	69.3	30.16	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:02 AM	67.9	67.9	67.9	84	62.9	1	W	0.02	3	W	67.9	69.3	69.3	30.161	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:03 AM	67.9	67.9	67.9	85	63.2	1	W	0.02	2	W	67.9	69.4	69.4	30.161	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:04 AM	67.8	67.9	67.8	84	62.8	2	W	0.03	5	W	67.8	69.2	69.2	30.162	0	0	0	0.002	65.9	72	56.6	66.2	13.75	0.075	23	1	100	1
9/27/2012	8:05 AM	67.8	67.8	67.8	85	63.1	2	WSW	0.03	4	W	67.8	69.3	69.3	30.163	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:06 AM	67.8	67.8	67.8	85	63.1	4	WSW	0.07	6	SW	67.8	69.3	69.3	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:07 AM	67.7	67.8	67.7	85	63	2	WSW	0.03	5	W	67.7	69.1	69.1	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:08 AM	67.7	67.7	67.7	85	63	3	W	0.05	5	WSW	67.7	69.1	69.1	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:09 AM	67.6	67.7	67.6	85	62.9	3	WSW	0.05	6	WSW	67.6	69	69	30.162	0	0	0	0.002	65.9	72	56.6	66.2	13.75	0.075	23	1	100	1
9/27/2012	8:10 AM	67.6	67.6	67.6	85	62.9	4	WSW	0.07	6	WSW	67.6	69	69	30.16	0	0	0	0.002	66.1	71	56.4	66.4	13.53	0.0749	24	1	100	1
9/27/2012	8:11 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	3	WSW	67.6	69	69	30.16	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:12 AM	67.5	67.6	67.5	85	62.8	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:13 AM	67.5	67.6	67.5	85	62.8	2	WSW	0.03	3	WSW	67.5	68.9	68.9	30.158	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:14 AM	67.5	67.5	67.5	85	62.8	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:15 AM	67.5	67.5	67.5	85	62.8	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.158	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	24	1	100	1
9/27/2012	8:16 AM	67.5	67.5	67.5	85	62.8	2	WSW	0.03	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:17 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.161	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:18 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.162	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:19 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.163	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:20 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.162	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:21 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	72	56.9	66.6	13.75	0.0749	22	1	95.7	1
9/27/2012	8:22 AM	67.5	67.5	67.5	86	63.2	2	SW	0.03	4	SW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:23 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:24 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:25 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:26 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:27 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:28 AM	67.5	67.5	67.5	86	63.2	0	WSW	0	2	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:29 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:30 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:31 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.161	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:32 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:33 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:34 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.156	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:35 AM	67.5	67.6	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.155	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:36 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.154	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:37 AM	67.5	67.6	67.5	86	63.2	0	WSW	0	1	WSW	67.5	68.9	68.9	30.154	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:38 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.15	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:39 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.149	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	24	1	100	1
9/27/2012	8:40 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.147	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:41 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.146	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	24	1	100	1
9/27/2012	8:42 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.145	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:43 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:44 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:45 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:46 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:47 AM	67.6	67.6	67.6	86	63.3	0	---	0	0	---	67.6	69.1	69.1	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:48 AM	67.7	67.7	67.6	86	63.4	0	WSW	0	1	WSW	67.7	69.2	69.2	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:49 AM	67.7	67.7	67.7	86	63.4	0	WSW	0	1	WSW	67.7	69.2	69.2	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:50 AM	67.7	67.8	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:51 AM	67.8	67.8	67.7	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.139	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:52 AM	67.8	67.8	67.8	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:53 AM	67.8	67.8	67.8	85	63.

Meteorological Data
Equity IRM

9/27/2012	10:12 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	ENE	70.2	71	71	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:13 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	3	ENE	70.2	71	71	30.151	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:14 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	N	70.2	71	71	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:15 AM	70.2	70.2	70.2	77	62.6	3	NNE	0.05	7	NNE	70.2	71	71	30.152	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	24	1	100	1
9/27/2012	10:16 AM	70.1	70.2	70.1	76	62.2	4	NNE	0.07	8	NE	70.1	70.8	70.8	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:17 AM	70.1	70.1	70.1	76	62.2	4	NE	0.07	6	N	70.1	70.8	70.8	30.153	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	24	1	100	1
9/27/2012	10:18 AM	70	70.1	70	76	62.1	3	NNW	0.05	6	NNW	70	70.7	70.7	30.154	0	0	0	0.003	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:19 AM	70	70	70	76	62.1	4	NNW	0.07	8	N	70	70.7	70.7	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:20 AM	69.9	70	69.9	75	61.6	3	NE	0.05	6	N	69.9	70.5	70.5	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:21 AM	69.9	70	69.9	76	62	4	E	0.07	5	E	69.9	70.6	70.6	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:22 AM	69.9	69.9	69.9	76	62	2	E	0.03	3	E	69.9	70.6	70.6	30.154	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:23 AM	69.9	69.9	69.9	77	62.4	3	NNE	0.05	5	NE	69.9	70.7	70.7	30.153	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:24 AM	69.9	69.9	69.9	77	62.4	3	NNE	0.05	4	NNE	69.9	70.7	70.7	30.154	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:25 AM	69.9	69.9	69.9	77	62.4	2	ENE	0.03	6	NE	69.9	70.7	70.7	30.151	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:26 AM	69.9	69.9	69.9	77	62.4	2	NNE	0.03	7	NNW	69.9	70.7	70.7	30.153	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:27 AM	70	70	69.9	77	62.5	2	NNW	0.03	5	NNW	70	70.8	70.8	30.151	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:28 AM	70	70	70	77	62.5	2	NNW	0.03	4	NNW	70	70.8	70.8	30.152	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:29 AM	70.1	70.1	70	77	62.6	2	NE	0.03	4	NNE	70.1	70.9	70.9	30.15	0	0	0	0.004	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:30 AM	70.1	70.1	70.1	77	62.6	3	NNE	0.05	5	NNE	70.1	70.9	70.9	30.152	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:31 AM	70.2	70.2	70.1	76	62.3	3	NNW	0.05	6	NNE	70.2	70.9	70.9	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:32 AM	70.3	70.3	70.2	76	62.4	3	NE	0.05	7	NNW	70.3	71.1	71.1	30.153	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	24	1	100	1
9/27/2012	10:33 AM	70.3	70.3	70.3	77	62.7	2	NE	0.03	4	NE	70.3	71.2	71.2	30.153	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:34 AM	70.4	70.4	70.3	76	62.5	4	E	0.07	8	N	70.4	71.2	71.2	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	24	1	100	1
9/27/2012	10:35 AM	70.4	70.4	70.4	75	62.1	3	NE	0.05	6	NE	70.4	71.1	71.1	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:36 AM	70.4	70.4	70.4	75	62.1	5	N	0.08	9	NNW	70.4	71.1	71.1	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:37 AM	70.4	70.4	70.4	75	62.1	4	ENE	0.07	8	ENE	70.4	71.1	71.1	30.154	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	24	1	100	1
9/27/2012	10:38 AM	70.4	70.4	70.4	75	62.1	4	ENE	0.07	5	ENE	70.4	71.1	71.1	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:39 AM	70.4	70.4	70.4	74	61.7	4	ENE	0.07	8	ENE	70.4	71	71	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	24	1	100	1
9/27/2012	10:40 AM	70.4	70.4	70.4	75	62.1	4	NNE	0.07	6	NE	70.4	71.1	71.1	30.149	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:41 AM	70.4	70.4	70.4	74	61.7	4	NE	0.07	7	NE	70.4	71	71	30.151	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:42 AM	70.4	70.4	70.4	75	62.1	4	NE	0.07	6	NNE	70.4	71.1	71.1	30.15	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	24	1	100	1
9/27/2012	10:43 AM	70.5	70.5	70.4	75	62.2	4	ENE	0.07	6	E	70.5	71.2	71.2	30.149	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:44 AM	70.5	70.5	70.5	75	62.2	3	NE	0.05	6	E	70.5	71.2	71.2	30.149	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	24	1	100	1
9/27/2012	10:45 AM	70.5	70.5	70.5	75	62.2	3	NE	0.05	5	ENE	70.5	71.2	71.2	30.15	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:46 AM	70.5	70.6	70.5	74	61.8	3	NE	0.05	6	NE	70.5	71.1	71.1	30.15	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	24	1	100	1
9/27/2012	10:47 AM	70.6	70.6	70.6	75	62.3	3	NE	0.05	5	NE	70.6	71.3	71.3	30.151	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	23	1	100	1
9/27/2012	10:48 AM	70.6	70.6	70.6	75	62.3	3	NE	0.05	5	NE	70.6	71.3	71.3	30.152	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	23	1	100	1
9/27/2012	10:49 AM	70.6	70.6	70.6	76	62.7	2	NE	0.03	4	NE	70.6	71.4	71.4	30.153	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	24	1	100	1
9/27/2012	10:50 AM	70.7	70.7	70.6	75	62.4	2	NE	0.03	4	NE	70.7	71.4	71.4	30.153	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	22	1	95.7	1
9/27/2012	10:51 AM	70.9	70.9	70.8	74	62.2	4	ENE	0.07	7	NE	70.9	71.6	71.6	30.154	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	24	1	100	1
9/27/2012	10:52 AM	70.9	70.9	70.9	74	62.2	3	ENE	0.05	4	ENE	70.9	71.6	71.6	30.155	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	22	1	95.7	1
9/27/2012	10:53 AM	71	71	70.9	73	61.9	4	ENE	0.07	7	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.1	73	61	70.5	13.95	0.0741	22	1	95.7	1
9/27/2012	10:54 AM	71	71	71	73	61.9	3	ENE	0.05	5	ENE	71	71.6	71.6	30.155	0	0	0	0.004	70.1	73	61	70.5	13.95	0.0741	24	1	100	1
9/27/2012	10:55 AM	71	71	71	73	61.9	3	ENE	0.05	5	ENE	71	71.6	71.6	30.155	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	22	1	95.7	1
9/27/2012	10:56 AM	71	71	71	73	61.9	4	ENE	0.07	8	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	24	1	100	1
9/27/2012	10:57 AM	71	71	71	73	61.9	3	ENE	0.05	3	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	22	1	95.7	1
9/27/2012	10:58 AM	71	71	71	74	62.3	3	NNE	0.05	6	NNE	71	71.7	71.7	30.15	0	0	0	0.004	70.4	72	60.9	70.8	13.73	0.0741	24	1	100	1
9/27/2012	10:59 AM	71.1	71.1	71.1	73	62	3	NE	0.05	4	ENE	71.1	71.8	71.8	30.151	0	0	0	0.004	70.4	72	60.9	70.8	13.73	0.0741	21	1	91.3	1
9/27/2012	11:00 AM	71.1	71.1	71.1	73	62	3	ENE	0.05	5	ENE	71.1	71.8	71.8	30.15	0	0	0	0.004	70.6	72	61.1	71.1	13.73	0.0741	23	1	100	1
9/27/2012	11:01 AM	71.1	71.1	71.1	74	62.4	2	NNE	0.03	5	ENE	71.1	71.8	71.8	30.15	0	0	0	0.004	70.6	72	61.1	71.1	13.73	0.0741	23	1	100	1
9/27/2012	11:02 AM	71.2	71.2	71.1	74	62.5	2	E	0.03	6	E	71.2	72	72	30.151	0	0	0	0.004	70.7	72	61.2	71.2	13.72	0.074	22	1	95.7	1
9/27/2012	11:03 AM	71.2	71.2	71.1	74	62.5	2	ENE	0.03	3	ENE	71.2	72	72	30.152	0	0	0	0.004	70.7	72	61.2	71.2	13.72	0.074	24	1	100	1
9/27/2012	11:04 AM	71.3	71.3	71.2	73	62.2	2	ENE	0.03	7	ENE	71.3	72	72	30.152	0	0	0	0.004	70.9	72	61.4	71.4	13.71	0.074	23	1	100	1
9/27/2012	11:05 AM	71.3	71.3	71.3	72	61.8	4	NE	0.07	8	ENE	71.3	71.9	71.9	30.152	0	0	0	0.004	70.9	72	61.4	71.4	13.71	0.074	23	1	100	1
9/27/2012	11:06 AM	71.3	71.4	71.3	73	62.2	3	NE	0.05	5	NE	71.3	72	72	30.152	0	0	0	0.004	71.1	72	61.6	71.7	13.71	0.074	23	1	100	1
9/27/2012	11:07 AM	71.4	71.4	71.4	73	62.3	3	NE	0.05	5	NE	71.4	72.1	72.1	30.152	0	0	0	0.004	71.1	72	61.6	71.7	13.71	0.074	23	1	100	1
9/27/2012	11:08 AM	71.5	71.5	71.4	72	62	2	ENE	0.03	4	ENE	71.5	72.2	72.2	30.152	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	24	1	100	1
9/27/2012	11:09 AM	71.5	71.5	71.5	73	62.4	2	ENE	0.03	4	N	71.5	72.3	72.3	30.15	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	23	1	100	1
9/27/2012	11:10 AM	71.6	71.6	71.5	73	62.5	3	ENE	0.05	4	ENE	71.6	72.4	72.4	30.149	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	24	1	100	1
9/27/2012	11:11 AM	71.7	71.7	71.6	72	62.2	2	NE	0.03	5	NE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.4	72	61.9	72.1	13.69	0.0739	23	1	100	1
9/27/2012	11:12 AM	71.7	71.7	71.7	72	62.2	2	NE	0.03	4	NE	71.7	72.4	72.4	30.149	0	0	0	0.005	71.4	72	61.9	72.1	13.69	0.0739	23	1	100	1
9/27/2012	11:13 AM	71.7	71.7	71.7	72	62.2	3	ENE	0.05	4	ENE	71.7	72.4	72.4	30.151	0	0	0	0.005	71.6	72	62.1	72.3	13.69	0.0739	24	1	100	1
9/27/2012	11:14 AM	71.8	71.8	71.7	71	61.9	4	ENE	0.07	8	ENE	71.8	72.5	72.5	30.152	0	0	0	0.005	71.6	72	62.1	72.3	13.69	0.0739	23	1	100	1
9/27/2012	11:15 AM	71.7	71.8	71.7	71	61.8	3	E	0.05	5	ENE	71.7	72.4	72.4	30.153	0	0	0	0.005	71.8	72	62.3	72.6	13.68	0.0738	24	1	100	1
9/27/2012	11:16 AM	71.7	71.7	71.7	70	61.4	3	E	0.05	5	E	71.7	72.3	72.3	30.152	0	0	0	0.005	71.8	72	62.3	72.6	13.68	0.0738	23	1	100	1
9/27/2012	11:17 AM	71.7	71.7	71.7	71	61.8	4	ENE	0.07	7	ENE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.9	72	62.4	72.7	13.67	0.0738	23	1	100	1
9/27/2012	11:18 AM	71.7	71.7	71.7	71	61.8	3	ENE	0.05	5	ENE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.9	71	62	72.6	13.37	0.0738	24	1	100	1
9/27/2012	11:19 AM	71.7	71.7	71.7	71	61.8	2	ENE	0.03	2	ENE	71.7	72.4	72.4	30.152	0	0	0	0.005	72.1	71	62.2	72.9	13.37	0.0738	23	1	100	1
9/27/2012	11:20 AM	71.7	71.7	71.7	70	61.4	1	ENE	0.02	3	ENE	71.7	72.3	72.3	30.151	0	0	0	0.005	72.1	71	62.2	72.9	13.37	0.0738	24	1	100	1
9/27/2012	11:21 AM	71.8	71.8	71.8	71	61.9	2	ENE	0.03	3	ENE	71.8	72.5	72.5	30.148	0	0	0	0.005	72.3	71	62.4	73.2	13.36	0.0738	23	1	100	1
9/27/2012	11:22 AM	71.9	71.9	71.8	71	62	2	ENE	0.03	4	N	71.9	72.6	72.6	30.148	0	0	0	0.005	72.3	71	62.4	73.2	13.36	0.0738	24	1	100	1
9/27/2012	11:23 AM	72.1	72.1	72	71	62.2	1	ENE	0.02	1	ENE	72.1	72.9	72.9	30.147	0	0	0	0.005	72.4	71	62.5	73.3	13.35	0.0737	23	1	100	1
9/27/2012	11:24 AM	72.2	72.2	72.1	70	61.9	1	ENE	0.02	2	ENE	72.2	73	73	30.145	0	0	0	0.005	72.4	71	62.5	73.3	13.35	0.0737	23	1	100	1
9/27/2012	11:25 AM	72.4	72.4	72.2	70	62.1	2	ENE	0.03	5	ENE	72.4	73.3	73.3	30.147	0	0	0	0.005	72.6	71	62.7	73.6	13.35	0.0737	24	1	100	1
9/27/2012	11:26 AM	72.5	72.5	72.4	69	61.7	3	ENE	0.05	7	ENE	72.5	73.3	73.3	30.146	0	0	0	0.005	72.6	71	62.7	73.6	13.35	0.0737	23	1	100	1
9/27/2012	11:27 AM	72.7	72.7	72.6	67	61.1	4	E	0.07	8	E	72.7	73.4	73.4	30.147	0	0	0	0.005	72.8	71	62.8	73.9	13.34	0.0737	24	1	100	1
9/27/2012	11:28 AM	72.7	72.7	72.7	67	61.1	4	ENE	0.07	8	ENE	72.7	73.4	73.4	30.146	0	0	0	0.005	73	71	63	74.2	13.33	0.0736	23	1	100	1
9/27/2012	11:29 AM	72.7	72.7	72.7	67	61.1	3	E	0.05	6	E	72.7	73.4	73.4	30.146	0	0	0	0.005	73	71	63	74.2	13.33	0.0736	23	1	100	1
9/27/2012	11:30 AM	72.8	72.8	72.7	66	60.8	2	E	0.03	3	E	72.8	73.5	73.5	30.143	0	0	0	0.005	73.1	70	62.7	74.3	13.03	0.0736	24	1	100	1
9/27/2012	11:31 AM	72.9	72.9	72.8	67	61.3	2	E	0.03	5	E	72.9	73.7	73.7	30.144	0	0	0	0.005	73.3	70	62.9	74.6	13.02	0.0736	23	1	100	1
9/27/2012	11:32 AM	73	73	72.9	66	61	3	ENE	0.05	5	E	73	73.8	73.8	30.145	0	0	0	0.006	73.3	70	62.9	74.6	13.02	0.0736	24	1	100	1
9/27/2012	11:33 AM	73.1	73.1	73.1	66	61.1	2	ENE	0.03	4	ENE	73.1	73.9	73.9	30.146	0	0	0	0.006	73.5	70	63.1	74.8	13.01	0.0735	23	1	100	1
9/27/2012	11:34 AM	73.1	73.1	73.1	65	60.6	3	ENE	0.05	4	ENE	73.1	73.8	73.8	30.145	0	0	0	0.006	73.6	70	63.2	75	13.01	0.0735	23	1	100	1
9/27/2012	11:35 AM	73.1	73.2	73.1	66	61.1	2	ENE	0.03	4	ENE	73.1	73.9	73.9	30.146	0	0	0	0.006	73.6	70	63.2	75	13.01	0.0735	24	1	100	1
9/27/2012	11:36 AM	73.1	73.2	73.1	65	60.6	5	ENE	0.08	7	E	73.1	73.8	73.8	30.146	0	0	0	0.006	73.8	70	63.4	75.3	13	0.0735	23	1	100	1
9/27/2012	11:37 AM	73.1	73.1	73.1	64	60.2	4	E	0.07	7	ENE	73.1	73.8	73.8	30.147	0	0	0	0.006	74	69	63.2	75.5	12.77	0.0735	24	1	100	1
9/27/2012	11:38 AM	73.2	73.2	73.1	64	60.3	5	ENE	0.08	8	E	73.2	73.9	73.9	30.147	0	0	0	0.006	74	69	63.2	75.5	12.77	0.0735	23	1	100	1
9/27/2012	11:39 AM	73.3	73.3	73.2	64	60.4	4	ENE	0.07	7	ENE	73.3	74.1	74.1	30.147	0	0	0	0.006	74.2	69	63.4	75.7	12.77	0.0734	24	1	100	1
9/27/2012	11:40 AM	73.4	73.4	73.3	65	60.9	4	ENE	0.07	8	ENE	73.4	74.3	74.3	30.147	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	22	1	95.7	1
9/27/2012	11:41 AM	73.4	73.5	73.4	63	60	4	ENE	0.07	7	ENE	73.4	74.1	74.1	30.149	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	23	1	100	1
9/27/2012	11:42 AM	73.5	73.5	73.4	63	60.1	2	ENE	0.03	4	ENE	73.5	74.3	74.3	30.151	0	0	0	0.006	74.5	68	63.2	76	12.55	0.0734	23	1	100	1
9/27/2012	11:43 AM	73.5	73.5	73.5	64	60.6	1	NE	0.02	2	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:44 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:45 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.9	68	63.6	76.4	12.55	0.0733	22	1	95.7	1
9/27/2012	11:46 AM	73.7	73.7	73.5	65	61.2	3	NE	0.05	5	N	73.7	74.7	74.7	30.148	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:47 AM	73.8	73.8	73.7	64	60.9	1	NE	0.02	3	NE	73.8	74.8	74.8	30.15	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:48 AM	73.9	73.9	73.8	63	60.5	2	ENE	0.03	5	ENE	73.9	74.9	74.9	30.149	0	0	0	0.006	75.2	68	63.9	76.7	12.54	0.0733	23	1	100	1
9/27/2012	11:49 AM	74	74	73.9	63	60.6	4	NE	0.07	5	NNE	74	75	75	30.15	0	0	0	0.006	75.4	68	64.1	76.9	12.53	0.0732	23	1	100	1
9/27/2012	11:50 AM	74.2	74.2	74.1	63	60.8	3	NE	0.05	5	E	74.2	75.2	75.2	30.149	0	0	0	0.006	75.4	68	64.1	76.9	12.53	0.0732	23	1	100	1
9/27/2012	11:51 AM	74.3	74.3	74.2	61	60	3	ENE	0.05	6	NE	74.3	75.2	75.2	30.148	0	0	0	0.006	75.6	68	64.3	77.2	12.53	0.0732	23	1	100	1
9/27/2012	11:52 AM	74.3	74.3	74.3	61	60

Meteorological Data
Equity IRM

9/27/2012	1:12 PM	76.1	76.1	76.1	57	59.8	2	E	0.03	5	E	76.1	76.6	76.6	30.132	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	23	1	100	1
9/27/2012	1:13 PM	76	76	76	57	59.7	4	ENE	0.07	8	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	24	1	100	1
9/27/2012	1:14 PM	76	76	76	57	59.7	1	ENE	0.02	4	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:15 PM	76.1	76.1	76	57	59.8	2	ENE	0.03	4	ENE	76.1	76.6	76.6	30.129	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:16 PM	76.2	76.2	76.1	56	59.4	4	ENE	0.07	5	ENE	76.2	76.6	76.6	30.129	0	0	0	0.008	81.4	59	65.7	83.1	10.55	0.0723	23	1	100	1
9/27/2012	1:17 PM	76.3	76.3	76.3	55	58.9	3	ENE	0.05	5	ENE	76.3	76.6	76.6	30.128	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	22	1	95.7	1
9/27/2012	1:18 PM	76.6	76.6	76.3	56	59.7	2	ENE	0.03	3	ENE	76.6	77	77	30.128	0	0	0	0.008	81.6	58	65.4	83.3	10.35	0.0723	23	1	100	1
9/27/2012	1:19 PM	76.7	76.7	76.6	55	59.3	2	ENE	0.03	4	ENE	76.7	77	77	30.127	0	0	0	0.008	81.6	57	64.9	83.1	10.18	0.0723	23	1	100	1
9/27/2012	1:20 PM	76.8	76.8	76.7	55	59.4	0	ENE	0	1	ENE	76.8	77.1	77.1	30.128	0	0	0	0.008	81.6	58	65.4	83.3	10.35	0.0723	22	1	95.7	1
9/27/2012	1:21 PM	76.9	76.9	76.8	54	59	0	ENE	0	1	ENE	76.9	77.1	77.1	30.127	0	0	0	0.008	81.6	57	64.9	83.1	10.18	0.0723	24	1	100	1
9/27/2012	1:22 PM	77	77	76.9	54	59.1	1	ENE	0.02	4	ENE	77	77.2	77.2	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	22	1	95.7	1
9/27/2012	1:23 PM	77.1	77.1	77	54	59.2	2	ENE	0.03	4	ENE	77.1	77.3	77.3	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	24	1	100	1
9/27/2012	1:24 PM	77.1	77.1	77.1	56	60.2	0	ENE	0	1	ENE	77.1	77.5	77.5	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	22	1	95.7	1
9/27/2012	1:25 PM	77.2	77.2	77.1	55	59.8	1	ENE	0.02	2	ENE	77.2	77.5	77.5	30.127	0	0	0	0.008	81.8	55	64.1	83.1	9.85	0.0723	24	1	100	1
9/27/2012	1:26 PM	77.3	77.3	77.3	55	59.9	1	ENE	0.02	3	ENE	77.3	77.7	77.7	30.125	0	0	0	0.009	82	56	64.8	83.6	10.05	0.0723	22	1	95.7	1
9/27/2012	1:27 PM	77.4	77.4	77.3	54	59.5	0	ENE	0	1	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	56	64.8	83.6	10.05	0.0723	22	1	95.7	1
9/27/2012	1:28 PM	77.4	77.4	77.4	54	59.5	1	ENE	0.02	2	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	55	64.2	83.4	9.85	0.0723	24	1	100	1
9/27/2012	1:29 PM	77.4	77.5	77.4	54	59.5	1	ENE	0.02	3	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	54	63.7	83.2	9.75	0.0723	23	1	100	1
9/27/2012	1:30 PM	77.3	77.4	77.3	54	59.4	2	ENE	0.03	3	ENE	77.3	77.6	77.6	30.125	0	0	0	0.009	82.1	54	63.8	83.4	9.75	0.0723	24	1	100	1
9/27/2012	1:31 PM	77.2	77.3	77.2	54	59.3	3	ENE	0.05	4	ENE	77.2	77.4	77.4	30.126	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:32 PM	77.1	77.1	77.1	55	59.7	3	ENE	0.05	4	ENE	77.1	77.4	77.4	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:33 PM	76.9	77.1	76.9	54	59	3	NE	0.05	5	ENE	76.9	77.1	77.1	30.128	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:34 PM	76.8	76.9	76.8	55	59.4	1	NE	0.02	2	NE	76.8	77.1	77.1	30.129	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:35 PM	76.7	76.8	76.7	55	59.3	2	NE	0.03	3	NE	76.7	77	77	30.13	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	24	1	100	1
9/27/2012	1:36 PM	76.5	76.7	76.5	55	59.1	1	NE	0.02	2	NE	76.5	76.8	76.8	30.129	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:37 PM	76.4	76.5	76.4	57	60	2	NE	0.03	3	ENE	76.4	76.9	76.9	30.13	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	24	1	100	1
9/27/2012	1:38 PM	76.4	76.4	76.4	56	59.5	3	N	0.05	5	N	76.4	76.8	76.8	30.128	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:39 PM	76.3	76.4	76.3	55	58.9	3	NNW	0.05	5	NNW	76.3	76.6	76.6	30.129	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:40 PM	76.3	76.3	76.3	56	59.4	2	NNW	0.03	3	NNW	76.3	76.7	76.7	30.128	0	0	0	0.008	82.3	54	64	83.7	9.75	0.0723	24	1	100	1
9/27/2012	1:41 PM	76.2	76.3	76.2	56	59.4	2	NNW	0.03	4	NNW	76.2	76.6	76.6	30.125	0	0	0	0.008	82.3	55	64.5	83.9	9.85	0.0722	23	1	100	1
9/27/2012	1:42 PM	76.1	76.2	76.1	56	59.3	1	N	0.02	2	NNW	76.1	76.5	76.5	30.128	0	0	0	0.008	82.3	54	64	83.7	9.75	0.0723	24	1	100	1
9/27/2012	1:43 PM	76	76.1	76	57	59.7	0	N	0	1	N	76	76.5	76.5	30.127	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:44 PM	76	76	76	57	59.7	2	N	0.03	3	N	76	76.5	76.5	30.127	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:45 PM	75.9	76	75.9	56	59.1	0	NNE	0	2	NNE	75.9	76.3	76.3	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:46 PM	75.9	75.9	75.9	57	59.6	0	NNE	0	1	NNE	75.9	76.4	76.4	30.128	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:47 PM	75.9	75.9	75.9	57	59.6	2	NE	0.03	3	NE	75.9	76.4	76.4	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:48 PM	75.8	75.9	75.8	57	59.5	2	NE	0.03	3	NE	75.8	76.3	76.3	30.126	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:49 PM	75.8	75.8	75.8	57	59.5	3	NE	0.05	4	NE	75.8	76.3	76.3	30.126	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:50 PM	75.7	75.7	75.7	57	59.4	1	NE	0.02	3	ENE	75.7	76.2	76.2	30.125	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	23	1	100	1
9/27/2012	1:51 PM	75.7	75.7	75.7	57	59.4	2	ENE	0.03	3	ENE	75.7	76.2	76.2	30.122	0	0	0	0.007	82	53	63.2	83.1	9.61	0.0723	23	1	100	1
9/27/2012	1:52 PM	75.6	75.6	75.6	57	59.3	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	24	1	100	1
9/27/2012	1:53 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.122	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	23	1	100	1
9/27/2012	1:54 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.119	0	0	0	0.007	82	53	63.2	83.1	9.61	0.0723	24	1	100	1
9/27/2012	1:55 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.119	0	0	0	0.007	81.8	53	63	82.8	9.61	0.0724	23	1	100	1
9/27/2012	1:56 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.115	0	0	0	0.007	81.8	51	61.9	82.5	9.31	0.0724	23	1	100	1
9/27/2012	1:57 PM	75.7	75.7	75.6	57	59.4	1	ENE	0.02	2	ENE	75.7	76.2	76.2	30.116	0	0	0	0.007	81.8	53	63	82.8	9.61	0.0724	24	1	100	1
9/27/2012	1:58 PM	75.7	75.7	75.7	56	58.9	1	ENE	0.02	2	ENE	75.7	76.1	76.1	30.116	0	0	0	0.007	81.8	52	62.5	82.6	9.41	0.0724	23	1	100	1
9/27/2012	1:59 PM	75.7	75.7	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.117	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	24	1	100	1
9/27/2012	2:00 PM	75.7	75.7	75.7	56	58.9	0	---	0	0	---	75.7	76.1	76.1	30.119	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	23	1	100	1
9/27/2012	2:01 PM	75.7	75.7	75.7	56	58.9	0	---	0	0	---	75.7	76.1	76.1	30.12	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	24	1	100	1
9/27/2012	2:02 PM	75.8	75.8	75.7	56	59	0	ENE	0	1	ENE	75.8	76.2	76.2	30.12	0	0	0	0.008	81.6	53	62.8	82.5	9.62	0.0724	23	1	100	1
9/27/2012	2:03 PM	75.8	75.8	75.7	56	59	0	---	0	0	---	75.8	76.2	76.2	30.118	0	0	0	0.008	81.4	52	62.1	82.1	9.42	0.0725	22	1	95.7	1
9/27/2012	2:04 PM	75.8	75.8	75.8	56	59	1	ENE	0.02	3	ENE	75.8	76.2	76.2	30.119	0	0	0	0.008	81.4	52	62.1	82.1	9.42	0.0725	24	1	100	1
9/27/2012	2:05 PM	75.9	75.9	75.8	56	59.1	1	ENE	0.02	2	ENE	75.9	76.3	76.3	30.12	0	0	0	0.008	81.4	53	62.6	82.2	9.62	0.0724	22	1	95.7	1
9/27/2012	2:06 PM	75.8	75.9	75.8	56	59	0	ENE	0	1	ENE	75.8	76.2	76.2	30.119	0	0	0	0.008	81.4	53	62.6	82.2	9.62	0.0724	24	1	100	1
9/27/2012	2:07 PM	75.7	75.8	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.119	0	0	0	0.007	81.4	53	62.6	82.2	9.62	0.0724	22	1	95.7	1
9/27/2012	2:08 PM	75.7	75.7	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.121	0	0	0	0.007	81.4	52	62.1	82.1	9.42	0.0725	23	1	100	1
9/27/2012	2:09 PM	75.6	75.7	75.6	57	59.3	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	23	1	100	1
9/27/2012	2:10 PM	75.4	75.5	75.4	57	59.1	1	ENE	0.02	2	ENE	75.4	76	76	30.121	0	0	0	0.007	81.2	53	62.4	81.9	9.63	0.0725	22	1	95.7	1
9/27/2012	2:11 PM	75.3	75.4	75.3	57	59	0	ENE	0	1	ENE	75.3	75.9	75.9	30.12	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	24	1	100	1
9/27/2012	2:12 PM	75.3	75.3	75.2	57	59	0	ENE	0	1	ENE	75.3	75.9	75.9	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	22	1	95.7	1
9/27/2012	2:13 PM	75.2	75.2	75.2	57	58.9	0	ENE	0	1	ENE	75.2	75.8	75.8	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	23	1	100	1
9/27/2012	2:14 PM	75.2	75.2	75.2	57	58.9	0	---	0	0	---	75.2	75.8	75.8	30.121	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	23	1	100	1
9/27/2012	2:15 PM	75.2	75.2	75.2	58	59.4	0	---	0	0	---	75.2	75.9	75.9	30.121	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	23	1	100	1
9/27/2012	2:16 PM	75.3	75.3	75.2	58	59.5	0	ENE	0	1	ENE	75.3	76	76	30.121	0	0	0	0.007	81	51	61.2	81.3	9.33	0.0726	24	1	100	1
9/27/2012	2:17 PM	75.4	75.4	75.3	57	59.1	0	ENE	0	1	ENE	75.4	76	76	30.121	0	0	0	0.007	81	51	61.2	81.3	9.33	0.0726	23	1	100	1
9/27/2012	2:18 PM	75.5	75.5	75.4	57	59.2	0	ENE	0	1	ENE	75.5	76.1	76.1	30.123	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	24	1	100	1
9/27/2012	2:19 PM	75.6	75.6	75.5	56	58.8	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:20 PM	75.6	75.6	75.6	56	58.8	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	52	61.5	81.3	9.43	0.0726	23	1	100	1
9/27/2012	2:21 PM	75.7	75.7	75.6	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.125	0	0	0	0.007	80.8	52	61.5	81.3	9.43	0.0726	24	1	100	1
9/27/2012	2:22 PM	75.7	75.7	75.7	57	59.4	0	ENE	0	2	ENE	75.7	76.2	76.2	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:23 PM	75.6	75.7	75.6	56	58.8	1	ENE	0.02	3	ENE	75.6	76.1	76.1	30.124	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	24	1	100	1
9/27/2012	2:24 PM	75.6	75.6	75.6	57	59.3	0	ENE	0	1	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:25 PM	75.6	75.6	75.5	56	58.8	2	ENE	0.03	4	ENE	75.6	76.1	76.1	30.122	0	0	0	0.007	80.6	51	60.8	80.9	9.34	0.0726	23	1	100	1
9/27/2012	2:26 PM	75.5	75.5	75.5	56	58.7	2	ESE	0.03	5	E	75.5	76	76	30.121	0	0	0	0.007	80.6	51	60.8	80.9	9.34	0.0726	24	1	100	1
9/27/2012	2:27 PM	75.5	75.5	75.4	57	59.2	2	ESE	0.03	3	ESE	75.5	76.1	76.1	30.122	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:28 PM	75.5	75.5	75.5	57	59.2	1	NE	0.02	3	NE	75.5	76.1	76.1	30.12	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	24	1	100	1
9/27/2012	2:29 PM	75.6	75.6	75.5	57	59.3	1	NE	0.02	2	NE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:30 PM	75.6	75.6	75.6	57	59.3	1	NE	0.02	3	NE	75.6	76.1	76.1	30.125	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:31 PM	75.7	75.7	75.6	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.123	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	22	1	95.7	1
9/27/2012	2:32 PM	75.7	75.7	75.7	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.125	0	0	0	0.007	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:33 PM	75.7	75.8	75.7	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.125	0	0	0	0.007	80.5	52	61.3	80.9	9.44	0.0726	24	1	100	1
9/27/2012	2:34 PM	75.8	75.8	75.8	57	59.5	0	NE	0	1	NE	75.8	76.3	76.3	30.125	0	0	0	0.008	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:35 PM	75.9	75.9	75.8	58	60.1	0	---	0	0	---	75.9	76.5	76.5	30.124	0	0	0	0.008	80.5	51	60.7	80.8	9.34	0.0727	24	1	100	1
9/27/2012	2:36 PM	75.9	75.9	75.9	57	59.6	0	---	0	0	---	75.9	76.4	76.4	30.124	0	0	0	0.008	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:37 PM	75.9	75.9	75.9	57	59.6	0	NE	0	1	NE	75.9	76.4	76.4	30.125	0	0	0	0.008	80.5	55	62.8	81.3	9.85	0.0726	23	1	100	1
9/27/2012	2:38 PM	75.9	76	75.9	56	59.1	1	NE	0.02	2	NE	75.9	76.3	76.3	30.125	0	0	0	0.008	80.5	56	63.4	81.4	10.05	0.0725	24	1	100	1
9/27/2012	2:39 PM	76	76	75.9	57	59.7	1	NE	0.02	3	NE	76	76.5	76.5	30.125	0	0	0	0.008	80.5	57	63.9	81.6	10.16	0.0725	22	1	95.7	1
9/27/2012	2:40 PM	76	76	76	56	59.2	1	NE	0.02	2	NE	76	76.4	76.4	30.124	0	0	0	0.008	80.5	57	63.9	81.6	10.16	0.0725	24	1	100	1
9/27/2012	2:41 PM	75.9	76	75.9	56	59.1	1	NE	0.02	2	NE	75.9	76.3	76.3	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:42 PM	75.9	75.9	75.9	56	59.1	2	NE	0.03	4	NE	75.9	76.3	76.3	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	24	1	100	1
9/27/2012	2:43 PM	75.8	75.9	75.8	56	59	2	NE	0.03	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	23	1	100	1
9/27/2012	2:44 PM	75.8	75.9	75.8	56	59	0	NE	0	1	NE	75.8	76.2	76.2	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:45 PM	75.8	75.8	75.8	56	59	1	NE	0.02	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	54	62.4	81.3	9.75	0.0726	24	1	100	1
9/18/2012	7:20 PM	75	75	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:21 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:22 PM	75.1	75.1	75.1	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:23 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.652	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	22	1	95.7	1
9/18/2012	7:24 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.655	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:25 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:26 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78

Meteorological Data
Equity IRM

9/18/2012	8:46 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.699	0	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:47 PM	69.6	69.7	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:48 PM	69.6	69.6	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0	0.32	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:49 PM	69.5	69.6	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.697	0.01	0.35	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:50 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:51 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0.01	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	23	1	100	1
9/18/2012	8:52 PM	69.4	69.5	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.29	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:53 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.19	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	24	1	100	1
9/18/2012	8:54 PM	69.4	69.4	69.4	93	67.3	0	---	0	0	---	69.4	71.6	71.6	29.691	0.01	0.19	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:55 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.689	0	0.18	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	24	1	100	1
9/18/2012	8:56 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.685	0.01	0.28	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:57 PM	69.3	69.4	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.28	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:58 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0	0.24	0	0.003	70.2	67	58.7	70.1	12.35	0.0731	23	1	100	1
9/18/2012	8:59 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.17	0	0.003	70.2	68	59.1	70.2	12.55	0.073	22	1	95.7	1
9/18/2012	9:00 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.684	0	0.14	0	0.003	70.1	68	59	70.1	12.55	0.0731	24	1	100	1
9/18/2012	9:01 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0.01	0.14	0	0.003	70.1	68	59	70.1	12.55	0.0731	22	1	95.7	1
9/18/2012	9:02 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.14	0	0.003	70.1	68	59	70.1	12.55	0.0731	24	1	100	1
9/18/2012	9:03 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.686	0	0.14	0	0.003	70.1	68	59	70.1	12.55	0.0731	22	1	95.7	1
9/18/2012	9:04 PM	69.3	69.3	69.2	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0.01	0.18	0	0.003	70.1	67	58.6	70	12.35	0.0731	23	1	100	1
9/18/2012	9:05 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0	0.18	0	0.003	70.1	68	59	70.1	12.55	0.0731	23	1	100	1
9/18/2012	9:06 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.684	0	0.18	0	0.003	69.9	67	58.4	69.8	12.35	0.0731	22	1	95.7	1
9/18/2012	9:07 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0	0.15	0	0.003	69.9	68	58.9	69.9	12.55	0.0731	24	1	100	1
9/18/2012	9:08 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.685	0	0.12	0	0.003	69.9	68	58.9	69.9	12.55	0.0731	22	1	95.7	1
9/18/2012	9:09 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.688	0.01	0.12	0	0.003	69.9	68	58.9	69.9	12.55	0.0731	23	1	100	1
9/18/2012	9:10 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.691	0	0.11	0	0.003	69.9	68	58.9	69.9	12.55	0.0731	23	1	100	1
9/18/2012	9:11 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.693	0	0.11	0	0.003	69.9	68	58.9	69.9	12.55	0.0731	23	1	100	1
9/18/2012	9:12 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.697	0	0.2	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	24	1	100	1
9/18/2012	9:13 PM	69.3	69.3	69.3	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.698	0.01	0.2	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	22	1	95.7	1
9/18/2012	9:14 PM	69.3	69.3	69.2	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.702	0	0.2	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	24	1	100	1
9/18/2012	9:15 PM	69.3	69.3	69.2	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.703	0.01	0.24	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	23	1	100	1
9/18/2012	9:16 PM	69.2	69.3	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.704	0	0.24	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	22	1	95.7	1
9/18/2012	9:17 PM	69.3	69.3	69.2	93	67.2	0	---	0	0	---	69.3	71.5	71.5	29.701	0	0.23	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	24	1	100	1
9/18/2012	9:18 PM	69.2	69.3	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.699	0	0.17	0	0.003	69.7	68	58.7	69.7	12.56	0.0732	23	1	100	1
9/18/2012	9:19 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.698	0.01	0.17	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	24	1	100	1
9/18/2012	9:20 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.697	0	0.17	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:21 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.698	0	0.17	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:22 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.699	0	0.14	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	24	1	100	1
9/18/2012	9:23 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.698	0.01	0.14	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:24 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.698	0	0.12	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	24	1	100	1
9/18/2012	9:25 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.697	0	0.12	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:26 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.693	0	0.12	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	24	1	100	1
9/18/2012	9:27 PM	69.2	69.2	69.2	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.692	0	0.12	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:28 PM	69.1	69.2	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.692	0	0.12	0	0.003	69.6	68	58.6	69.6	12.57	0.0732	23	1	100	1
9/18/2012	9:29 PM	69.2	69.2	69.1	93	67.1	0	---	0	0	---	69.2	71.4	71.4	29.692	0.01	0.12	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	24	1	100	1
9/18/2012	9:30 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.692	0	0.12	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	23	1	100	1
9/18/2012	9:31 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.695	0	0.12	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	24	1	100	1
9/18/2012	9:32 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.695	0	0.16	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	23	1	100	1
9/18/2012	9:33 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.695	0.01	0.16	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	23	1	100	1
9/18/2012	9:34 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.697	0	0.16	0	0.003	69.4	67	58	69.4	12.36	0.0732	24	1	100	1
9/18/2012	9:35 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.697	0	0.16	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	23	1	100	1
9/18/2012	9:36 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.698	0	0.14	0	0.003	69.4	68	58.4	69.5	12.57	0.0732	24	1	100	1
9/18/2012	9:37 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.696	0	0.12	0	0.003	69.4	67	58	69.4	12.36	0.0732	23	1	100	1
9/18/2012	9:38 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.697	0	0.1	0	0.003	69.4	67	58	69.4	12.36	0.0732	24	1	100	1
9/18/2012	9:39 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.698	0	0.08	0	0.003	69.2	68	58.2	69.3	12.58	0.0733	23	1	100	1
9/18/2012	9:40 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.696	0.01	0.08	0	0.003	69.2	67	57.8	69.3	12.37	0.0733	23	1	100	1
9/18/2012	9:41 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.694	0	0.08	0	0.003	69.2	68	58.2	69.3	12.58	0.0732	24	1	100	1
9/18/2012	9:42 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.692	0	0.08	0	0.003	69.2	67	57.8	69.3	12.37	0.0733	23	1	100	1
9/18/2012	9:43 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.691	0.01	0.2	0	0.003	69.2	67	57.8	69.3	12.37	0.0733	24	1	100	1
9/18/2012	9:44 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.689	0	0.2	0	0.003	69.2	67	57.8	69.3	12.37	0.0732	23	1	100	1
9/18/2012	9:45 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.688	0	0.2	0	0.003	69.2	67	57.8	69.3	12.37	0.0732	23	1	100	1
9/18/2012	9:46 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.685	0.01	0.2	0	0.003	69.2	67	57.8	69.3	12.37	0.0732	24	1	100	1
9/18/2012	9:47 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.685	0	0.19	0	0.003	69.2	67	57.8	69.3	12.37	0.0732	23	1	100	1
9/18/2012	9:48 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.687	0	0.19	0	0.003	69	67	57.6	69.1	12.37	0.0733	24	1	100	1
9/18/2012	9:49 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.688	0.01	0.22	0	0.003	69	67	57.6	69.1	12.37	0.0733	22	1	95.7	1
9/18/2012	9:50 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.69	0	0.22	0	0.003	69	67	57.6	69.1	12.37	0.0733	24	1	100	1
9/18/2012	9:51 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.692	0	0.22	0	0.003	69	67	57.6	69.1	12.37	0.0733	22	1	95.7	1
9/18/2012	9:52 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.692	0	0.17	0	0.003	69	67	57.6	69.1	12.37	0.0733	23	1	100	1
9/18/2012	9:53 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.694	0	0.13	0	0.003	69	67	57.6	69.1	12.37	0.0733	23	1	100	1
9/18/2012	9:54 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.694	0.01	0.13	0	0.003	69	67	57.6	69.1	12.37	0.0733	23	1	100	1
9/18/2012	9:55 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.695	0	0.12	0	0.003	69	67	57.6	69.1	12.37	0.0733	23	1	100	1
9/18/2012	9:56 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.696	0	0.12	0	0.003	69	67	57.6	69.1	12.37	0.0733	23	1	100	1
9/18/2012	9:57 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.695	0	0.12	0	0.003	69	68	58	69.2	12.59	0.0733	22	1	95.7	1
9/18/2012	9:58 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.694	0	0.12	0	0.003	68.9	68	57.9	69.1	12.59	0.0733	23	1	100	1
9/18/2012	9:59 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.692	0	0.11	0	0.003	68.9	67	57.5	69	12.37	0.0733	23	1	100	1
9/18/2012	10:00 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.692	0	0.09	0	0.003	68.9	67	57.5	69	12.37	0.0733	23	1	100	1
9/18/2012	10:01 PM	68.7	68.8	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.692	0	0.08	0	0.003	68.9	67	57.5	69	12.37	0.0733	23	1	100	1
9/18/2012	10:02 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.691	0	0.07	0	0.003	68.9	67	57.5	69	12.37	0.0733	22	1	95.7	1
9/18/2012	10:03 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.69	0	0.06	0	0.003	68.9	67	57.5	69	12.37	0.0733	24	1	100	1
9/18/2012	10:04 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.692	0	0.06	0	0.003	68.9	67	57.5	69	12.37	0.0733	23	1	100	1
9/18/2012	10:05 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.69	0	0.05	0	0.003	68.9	67	57.5	69	12.37	0.0733	24	1	100	1
9/18/2012	10:06 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.691	0	0.05	0	0.003	68.9	67	57.5	69	12.37	0.0733	23	1	100	1
9/18/2012	10:07 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.692	0	0.04	0	0.003	68.7	67	57.3	68.9	12.38	0.0733	24	1	100	1
9/18/2012	10:08 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.692	0	0.04	0	0.003	68.7	67	57.3	68.9	12.38	0.0733	23	1	100	1
9/18/2012	10:09 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.693	0	0.04	0	0.003	68.7	67	57.3	68.9	12.38	0.0733	23	1	100	1
9/18/2012	10:10 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.693	0	0.04	0	0.003	68.7	67	57.3	68.9	12.38	0.0733	24	1	100	1
9/18/2012	10:11 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.697	0.01	0.04	0	0.003	68.7	67	57.3	68.9	12.38	0.0734	23	1	100	1
9/18/2012	10:12 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.699	0	0	0	0.003	68.7	67	57.3	68.9	12.38	0.0734	24	1	100	1
9/18/2012	10:13 PM	68.7	68.7	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.7	0	0	0	0.003	68.7	67	57.3	68.9	12.38	0.0734	22	1	95.7	1
9/18/2012	10:14 PM	68.7	68.8	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.704	0	0	0	0.003	68.7	67	57.3	68.9	12.38	0.0734	23	1	100	1
9/18/2012	10:15 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.706	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:16 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.708	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:17 PM	68.7	68.8	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.71	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:18 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.71	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:19 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.711	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:20 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.713	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:21 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.714	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:22 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:23 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:24 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:25 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:26 PM	68.8	68.8	68.8	93

Meteorological Data
Equity IRM

9/18/2012	11:46 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:47 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:48 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.76	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:49 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:50 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:51 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:52 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:53 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:54 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:55 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:56 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:57 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:58 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:59 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:00 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:01 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:02 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/19/2012	12:03 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:04 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/19/2012	12:05 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/19/2012	12:06 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.753	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:07 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.752	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:08 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	22	1	95.7	1
9/19/2012	12:09 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.757	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:10 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.757	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:11 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:12 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:13 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:14 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:15 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:16 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:17 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:18 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:19 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.755	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:20 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.754	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	23	1	100	1
9/19/2012	12:21 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.754	0	0	0	0.003	67.7	67	56.3	68	12.4	0.0737	24	1	100	1
9/19/2012	12:22 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.755	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:23 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:24 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.755	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	24	1	100	1
9/19/2012	12:25 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.755	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:26 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	24	1	100	1
9/19/2012	12:27 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	22	1	95.7	1
9/19/2012	12:28 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:29 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.755	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:30 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:31 AM	69.2	69.3	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:32 AM	69.3	69.3	69.2	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.755	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:33 AM	69.3	69.3	69.2	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.753	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	22	1	95.7	1
9/19/2012	12:34 AM	69.3	69.3	69.3	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.753	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:35 AM	69.3	69.3	69.2	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:36 AM	69.3	69.3	69.2	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.753	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:37 AM	69.3	69.3	69.3	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.753	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	22	1	95.7	1
9/19/2012	12:38 AM	69.3	69.3	69.2	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.754	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:39 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.752	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:40 AM	69.3	69.3	69.3	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.752	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	22	1	95.7	1
9/19/2012	12:41 AM	69.3	69.3	69.3	92	66.9	0	---	0	0	---	69.3	71.4	71.4	29.752	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	24	1	100	1
9/19/2012	12:42 AM	69.2	69.3	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.751	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:43 AM	69.2	69.3	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.751	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	24	1	100	1
9/19/2012	12:44 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.751	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	12:45 AM	69.2	69.3	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.75	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:46 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.748	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	12:47 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.748	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:48 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.748	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	12:49 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.748	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:50 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.749	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	12:51 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.748	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:52 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.747	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:53 AM	69.2	69.2	69.2	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.747	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	12:54 AM	69.2	69.2	69.1	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.747	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:55 AM	69.2	69.2	69.1	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	12:56 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:57 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.746	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	12:58 AM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	12:59 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:00 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:01 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	22	1	95.7	1
9/19/2012	1:02 AM	69.2	69.2	69.1	92	66.8	0	---	0	0	---	69.2	71.3	71.3	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:03 AM	69.1	69.2	69.1	91	66.4	0	---	0	0	---	69.1	71.2	71.2	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:04 AM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:05 AM	69.2	69.2	69.1	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:06 AM	69.2	69.2	69.1	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:07 AM	69.2	69.2	69.1	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:08 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:09 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:10 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:11 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:12 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:13 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:14 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:15 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:16 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:17 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:18 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:19 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:20 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:21 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:22 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:23 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:24 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:25 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	21	1	91.3	1
9/19/2012	1:26 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738

Meteorological Data
Equity IRM

9/19/2012	2:46 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:47 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:48 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:49 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:50 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:51 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:52 AM	69.7	69.7	69.7	90	66.6	0	---	0	0	---	69.7	71.7	71.7	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:53 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:54 AM	69.7	69.7	69.6	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	22	1	95.7	1
9/19/2012	2:55 AM	69.6	69.7	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:56 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:57 AM	69.6	69.6	69.6	89	66.2	0	---	0	0	---	69.6	71.5	71.5	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:58 AM	69.6	69.6	69.6	89	66.2	0	---	0	0	---	69.6	71.5	71.5	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:59 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	3:00 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.767	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0738	24	1	100	1
9/19/2012	3:01 AM	69.2	69.4	69.2	83	63.8	0	---	0	0	---	69.2	70.8	70.8	29.766	0	0	0	0.003	67.5	67	56.2	67.8	12.4	0.0737	23	1	100	1
9/19/2012	3:02 AM	68.6	69.1	68.6	80	62.2	0	---	0	0	---	68.6	70	70	29.773	0	0	0	0.002	67.5	67	56.2	67.8	12.4	0.0738	23	1	100	1
9/19/2012	3:03 AM	68	68.5	68	79	61.2	0	---	0	0	---	68	69.2	69.2	29.775	0	0	0	0.002	67.5	66	55.7	67.7	12.15	0.0738	24	1	100	1
9/19/2012	3:04 AM	67.4	67.9	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.776	0	0	0	0.002	67.5	67	56.2	67.8	12.4	0.0738	23	1	100	1
9/19/2012	3:05 AM	66.9	67.3	66.9	80	60.5	0	---	0	0	---	66.9	68	68	29.774	0	0	0	0.001	67.5	67	56.2	67.8	12.4	0.0738	23	1	100	1
9/19/2012	3:06 AM	66.5	66.8	66.5	81	60.5	0	---	0	0	---	66.5	67.5	67.5	29.776	0	0	0	0.001	67.4	67	56.1	67.6	12.4	0.0738	23	1	100	1
9/19/2012	3:07 AM	66.3	66.5	66.3	82	60.6	0	---	0	0	---	66.3	67.3	67.3	29.776	0	0	0	0.001	67.4	67	56.1	67.6	12.4	0.0738	22	1	95.7	1
9/19/2012	3:08 AM	66	66.2	66	82	60.3	0	---	0	0	---	66	66.9	66.9	29.779	0	0	0	0.001	67.4	67	56.1	67.6	12.4	0.0738	24	1	100	1
9/19/2012	3:09 AM	65.6	65.8	65.6	82	60	0	---	0	0	---	65.6	66.5	66.5	29.78	0	0	0	0	67.4	67	56.1	67.6	12.4	0.0738	22	1	95.7	1
9/19/2012	3:10 AM	65.3	65.6	65.3	82	59.7	0	---	0	0	---	65.3	66.1	66.1	29.786	0	0	0	0	67.4	67	56.1	67.6	12.4	0.0738	23	1	100	1
9/19/2012	3:11 AM	65.1	65.3	65.1	82	59.5	0	---	0	0	---	65.1	65.9	65.9	29.784	0	0	0	0	67.4	67	56.1	67.6	12.4	0.0738	23	1	100	1
9/19/2012	3:12 AM	64.9	65.1	64.9	83	59.6	0	---	0	0	---	64.9	65.6	65.6	29.786	0	0	0	0	67.4	67	56.1	67.6	12.4	0.0738	22	1	95.7	1
9/19/2012	3:13 AM	64.9	64.9	64.9	83	59.6	0	---	0	0	---	64.9	65.6	65.6	29.788	0	0	0	0	67.2	67	55.9	67.4	12.41	0.0739	24	1	100	1
9/19/2012	3:14 AM	64.8	64.8	64.8	83	59.5	0	---	0	0	---	64.8	65.5	65.5	29.792	0	0	0	0	67.2	67	55.9	67.4	12.41	0.0739	22	1	95.7	1
9/19/2012	3:15 AM	64.8	64.8	64.8	84	59.9	0	---	0	0	---	64.8	65.5	65.5	29.792	0	0	0	0	67.2	67	55.9	67.4	12.41	0.0739	24	1	100	1
9/19/2012	3:16 AM	64.7	64.7	64.7	83	59.4	0	---	0	0	---	64.7	65.4	65.4	29.795	0	0	0	0	67.2	67	55.9	67.4	12.41	0.0739	22	1	95.7	1
9/19/2012	3:17 AM	64.7	64.7	64.7	84	59.8	0	---	0	0	---	64.7	65.4	65.4	29.797	0	0	0	0	67	67	55.7	67.2	12.41	0.0739	23	1	100	1
9/19/2012	3:18 AM	64.7	64.7	64.7	83	59.4	0	---	0	0	---	64.7	65.4	65.4	29.796	0	0	0	0	67	67	55.7	67.2	12.41	0.0739	23	1	100	1
9/19/2012	3:19 AM	64.6	64.7	64.6	81	58.6	0	---	0	0	---	64.6	65.2	65.2	29.797	0	0	0	0	67	67	55.7	67.2	12.41	0.0739	23	1	100	1
9/19/2012	3:20 AM	64.5	64.6	64.5	80	58.2	0	---	0	0	---	64.5	65.1	65.1	29.801	0	0	0	0	66.9	67	55.6	67	12.41	0.0739	24	1	100	1
9/19/2012	3:21 AM	64.4	64.5	64.4	80	58.1	0	---	0	0	---	64.4	65	65	29.804	0	0	0	0	66.9	67	55.6	67	12.41	0.074	23	1	100	1
9/19/2012	3:22 AM	64.2	64.4	64.2	80	57.9	0	---	0	0	---	64.2	64.7	64.7	29.807	0	0	0.001	0	66.9	67	55.6	67	12.41	0.074	24	1	100	1
9/19/2012	3:23 AM	64	64.2	64	80	57.7	0	---	0	0	---	64	64.5	64.5	29.803	0	0	0.001	0	66.9	67	55.6	67	12.41	0.0739	23	1	100	1
9/19/2012	3:24 AM	63.8	64	63.8	81	57.9	0	---	0	0	---	63.8	64.3	64.3	29.802	0	0	0.001	0	66.7	67	55.4	66.8	12.42	0.074	23	1	100	1
9/19/2012	3:25 AM	63.7	63.8	63.7	82	58.1	0	---	0	0	---	63.7	64.2	64.2	29.805	0	0	0.001	0	66.7	68	55.8	66.9	12.68	0.074	24	1	100	1
9/19/2012	3:26 AM	63.5	63.6	63.5	82	57.9	0	---	0	0	---	63.5	64	64	29.81	0	0	0.001	0	66.6	68	55.7	66.8	12.69	0.074	23	1	100	1
9/19/2012	3:27 AM	63.3	63.5	63.3	83	58	0	---	0	0	---	63.3	63.8	63.8	29.809	0	0	0.001	0	66.6	67	55.3	66.7	12.42	0.074	24	1	100	1
9/19/2012	3:28 AM	63.2	63.3	63.2	81	57.3	0	---	0	0	---	63.2	63.6	63.6	29.811	0	0	0.001	0	66.6	68	55.7	66.8	12.69	0.074	23	1	100	1
9/19/2012	3:29 AM	63.1	63.2	63.1	82	57.5	0	---	0	0	---	63.1	63.5	63.5	29.815	0	0	0.001	0	66.4	68	55.5	66.5	12.69	0.0741	24	1	100	1
9/19/2012	3:30 AM	63	63.1	63	83	57.8	0	---	0	0	---	63	63.4	63.4	29.813	0	0	0.001	0	66.4	68	55.5	66.5	12.69	0.074	23	1	100	1
9/19/2012	3:31 AM	63	63	63	84	58.1	0	---	0	0	---	63	63.5	63.5	29.815	0	0	0.001	0	66.2	68	55.3	66.3	12.7	0.0741	23	1	100	1
9/19/2012	3:32 AM	62.9	63	62.9	83	57.7	0	---	0	0	---	62.9	63.3	63.3	29.812	0	0	0.001	0	66.2	68	55.3	66.3	12.7	0.0741	24	1	100	1
9/19/2012	3:33 AM	62.8	62.9	62.8	83	57.6	0	---	0	0	---	62.8	63.2	63.2	29.811	0	0	0.002	0	66.1	68	55.2	66.2	12.71	0.0741	23	1	100	1
9/19/2012	3:34 AM	62.8	62.8	62.8	83	57.6	0	---	0	0	---	62.8	63.2	63.2	29.813	0	0	0.002	0	66.1	68	55.2	66.2	12.71	0.0741	23	1	100	1
9/19/2012	3:35 AM	62.8	62.8	62.8	83	57.6	0	---	0	0	---	62.8	63.2	63.2	29.813	0	0	0.002	0	65.9	68	55	65.9	12.71	0.0741	23	1	100	1
9/19/2012	3:36 AM	62.8	62.8	62.8	82	57.2	0	---	0	0	---	62.8	63.2	63.2	29.811	0	0	0.002	0	65.9	68	55	65.9	12.71	0.0741	23	1	100	1
9/19/2012	3:37 AM	62.8	62.8	62.8	82	57.2	0	---	0	0	---	62.8	63.2	63.2	29.813	0	0	0.002	0	65.8	68	54.9	65.8	12.72	0.0742	24	1	100	1
9/19/2012	3:38 AM	62.8	62.8	62.8	83	57.6	0	---	0	0	---	62.8	63.2	63.2	29.814	0	0	0.002	0	65.8	68	54.9	65.8	12.72	0.0742	23	1	100	1
9/19/2012	3:39 AM	62.8	62.8	62.8	83	57.6	0	---	0	0	---	62.8	63.2	63.2	29.817	0	0	0.002	0	65.6	68	54.8	65.6	12.73	0.0742	24	1	100	1
9/19/2012	3:40 AM	62.9	62.9	62.8	82	57.3	0	---	0	0	---	62.9	63.3	63.3	29.819	0	0	0.001	0	65.6	68	54.8	65.6	12.73	0.0742	23	1	100	1
9/19/2012	3:41 AM	62.9	62.9	62.9	81	57	0	---	0	0	---	62.9	63.2	63.2	29.818	0	0	0.001	0	65.4	68	54.6	65.3	12.73	0.0742	24	1	100	1
9/19/2012	3:42 AM	62.9	62.9	62.9	80	56.6	0	---	0	0	---	62.9	63.2	63.2	29.821	0	0	0.001	0	65.4	68	54.6	65.3	12.73	0.0742	23	1	100	1
9/19/2012	3:43 AM	63	63	63	79	56.4	0	---	0	0	---	63	63.2	63.2	29.821	0	0	0.001	0	65.3	68	54.5	65.2	12.74	0.0743	23	1	100	1
9/19/2012	3:44 AM	63.1	63.1	63	80	56.8	0	---	0	0	---	63.1	63.4	63.4	29.82	0	0	0.001	0	65.3	68	54.5	65.2	12.74	0.0743	24	1	100	1
9/19/2012	3:45 AM	63.1	63.1	63.1	80	56.8	0	---	0	0	---	63.1	63.4	63.4	29.821	0	0	0.001	0	65.1	68	54.3	65	12.75	0.0743	23	1	100	1
9/19/2012	3:46 AM	63.2	63.2	63.1	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.824	0	0	0.001	0	65.1	69	54.7	65.1	13.05	0.0743	24	1	100	1
9/19/2012	3:47 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.828	0	0	0.001	0	65.1	69	54.7	65.1	13.05	0.0743	23	1	100	1
9/19/2012	3:48 AM	63.3	63.3	63.2	80	57	0	---	0	0	---	63.3	63.7	63.7	29.822	0	0	0.001	0	64.9	69	54.5	64.8	13.05	0.0743	23	1	100	1
9/19/2012	3:49 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.823	0	0	0.001	0	64.9	69	54.5	64.8	13.05	0.0743	24	1	100	1
9/19/2012	3:50 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.822	0	0	0.001	0	64.8	69	54.4	64.7	13.05	0.0743	23	1	100	1
9/19/2012	3:51 AM	63.2	63.2	63.2	79	56.6	0	---	0	0	---	63.2	63.5	63.5	29.821	0	0	0.001	0	64.8	69	54.4	64.7	13.05	0.0743	23	1	100	1
9/19/2012	3:52 AM	63.2	63.2	63.2	79	56.6	0	---	0	0	---	63.2	63.5	63.5	29.82	0	0	0.001	0	64.8	69	54.4	64.7	13.05	0.0743	23	1	100	1
9/19/2012	3:53 AM	63.2	63.2	63.2	79	56.6	0	---	0	0	---	63.2	63.5	63.5	29.822	0	0	0.001	0	64.6	69	54.2	64.5	13.04	0.0744	24	1	100	1
9/19/2012	3:54 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.821	0	0	0.001	0	64.6	69	54.2	64.5	13.04	0.0744	23	1	100	1
9/19/2012	3:55 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.823	0	0	0.001	0	64.6	69	54.2	64.5	13.04	0.0744	23	1	100	1
9/19/2012	3:56 AM	63.2	63.2	63.2	80	56.9	0	---	0	0	---	63.2	63.5	63.5	29.822	0	0	0.001	0	64.5	69	54.1	64.3	13.04	0.0744	24	1	100	1
9/19/2012	3:57 AM	63.2	63.2	63.2	79	56.6	0	---	0	0	---	63.2	63.5	63.5	29.822	0	0	0.001	0	64.5	69	54.1	64.3	13.04	0.0744	23	1	100	1
9/19/2012	3:58 AM	63.2	63.2	63.2	79	56.6	0	---	0	0	---	63.2	63.5	63.5	29.823	0	0	0.001	0	64.5	69	54.1	64.3	13.04	0.0744	24	1	100	1
9/19/2012	3:59 AM	63.2	63.2	63.2	77	55.9	0	---	0	0	---	63.2	63.3	63.3	29.821	0	0	0.001	0	64.3	69	53.9	64.1	13.04	0.0744	23	1	100	1
9/19/2012	4:00 AM	63.2	63.2	63.2	77	55.9	0	---	0	0	---	63.2	63.3	63.3	29.825	0	0	0.001	0	64.3	69	53.9	64.1	13.04	0.0744	23	1	100	1
9/19/2012	4:01 AM	63.1	63.2	63.1	77	55.8	0	---	0	0	---	63.1	63.2	63.2	29.823	0	0	0.001	0	64.3	69	53.9	64.1	13.04	0.0744	23	1	100	1
9/19/2012	4:02 AM	63.1	63.1	63.1	77	55.8	0	---	0	0	---	63.1	63.2	63.2	29.822	0	0	0.001	0	64.3	69	53.9	64.1	13.04	0.0744	22	1	95.7	1
9/19/2012	4:03 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.824	0	0	0.001	0	64.1	69	53.7	63.9	13.03	0.0745	24	1	100	1
9/19/2012	4:04 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.827	0	0	0.001	0	64.1	69	53.7	63.9	13.03	0.0745	22	1	95.7	1
9/19/2012	4:05 AM	63.1	63.1	63.1	77	55.8	0	---	0	0	---	63.1	63.2	63.2	29.832	0	0	0.001	0	64.1	69	53.7	63.9	13.03	0.0745	23	1	100	1
9/19/2012	4:06 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.831	0	0	0.001	0	64.1	69	53.7	63.9	13.03	0.0745	23	1	100	1
9/19/2012	4:07 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.833	0	0	0.001	0	64	69	53.6	63.7	13.03	0.0745	23	1	100	1
9/19/2012	4:08 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.833	0	0	0.001	0	64	69	53.6	63.7	13.03	0.0745	23	1	100	1
9/19/2012	4:09 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.835	0	0	0.001	0	64	69	53.6	63.7	13.03	0.0745	22	1	95.7	1
9/19/2012	4:10 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	29.836	0	0	0.001	0	64	69	53.6	63.7	13.03	0.0745	24	1	100	1
9/19/2012	4:11 AM	63.1	63.1	63.1	76	55.4	0	---	0	0	---	63.1	63.1	63.1	29.837	0	0	0.001	0	63.8	69	53.4	63.5	13.03	0.0746	21	1	91.3	1
9/19/2012	4:12 AM	63.1	63.1	63.1	76	55.4	0	---	0	0	---	63.1	63.1	63.1	29.833	0	0	0.001	0	63.8	69	53.4	63.5	13.03	0.0745	23	1	100	1
9/19/2012	4:13 AM	63.1	63.1	63	77	55.8	0	---	0	0	---	63.1	63.2	63.2	29.837	0	0	0.001	0	63.8	69	53.4	63.5	13.03	0.0746	23	1	100	1
9/19/2012	4:14 AM	63	63.1	63	76	55.3	0	---	0	0	---	63	63	63	29.836	0	0	0.001	0	63.8	69	53.4	63.5	13.03	0.0746	23	1	100	1
9/19/2012	4:15 AM	63	63	63	76	55.3	0	---	0	0	---	63	63	63	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:16 AM	63	63	63	76	55.3	0	---	0	0	---	63	63	63	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:17 AM	63	63	63	77	55.7	0	---	0	0	---	63	63.1	63.1	29.837	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:18 AM	63	63	63	77	55.7	0	---	0	0	---	63	63.1	63.1	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:19 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.837	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:20 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.839	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:21 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:22 AM	62.9	62.9	62.9	76	55.2	0	---	0	0	---	62.9	62.9	62.9	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:23 AM	62.8	62.8	62.8	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:24 AM	62.8	62.8	62.7	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:25 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.838	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:26 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:27 AM	62.7	62.7	62.7	75	54.7	0	---	0	0	---	62.7	62.6	62.6	29.838	0	0	0.002	0	63.

Meteorological Data
Equity IRM

9/19/2012	5:46 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.875	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:47 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:48 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.88	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:49 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:50 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:51 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:52 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:53 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:54 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.884	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:55 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.885	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:56 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.885	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:57 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.884	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:58 AM	62.2	62.3	62.2	66	50.7	0	---	0	0	---	62.2	61.6	61.6	29.887	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:59 AM	62.2	62.3	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.888	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:00 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.887	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:01 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.889	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:02 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.889	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	22	1	95.7	1
9/19/2012	6:03 AM	62.2	62.2	62.2	66	50.7	0	---	0	0	---	62.2	61.6	61.6	29.891	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:04 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.892	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.0751	23	1	100	1
9/19/2012	6:05 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.892	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.0751	23	1	100	1
9/19/2012	6:06 AM	62.2	62.2	62.2	65	50.3	0	---	0	0	---	62.2	61.5	61.5	29.888	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:07 AM	62.1	62.2	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.888	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:08 AM	62.1	62.2	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.889	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:09 AM	62.1	62.1	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.888	0	0	0.002	0	61.9	68	51.2	61.3	12.75	0.075	23	1	100	1
9/19/2012	6:10 AM	62.1	62.1	62.1	64	49.8	0	---	0	0	---	62.1	61.3	61.3	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	23	1	100	1
9/19/2012	6:11 AM	62.1	62.1	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	24	1	100	1
9/19/2012	6:12 AM	62.1	62.1	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.888	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	23	1	100	1
9/19/2012	6:13 AM	62.1	62.1	62.1	65	50.2	0	---	0	0	---	62.1	61.4	61.4	29.888	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	24	1	100	1
9/19/2012	6:14 AM	62	62.1	62	65	50.1	0	---	0	0	---	62	61.3	61.3	29.886	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	23	1	100	1
9/19/2012	6:15 AM	62	62.1	62	64	49.7	0	---	0	0	---	62	61.2	61.2	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	23	1	100	1
9/19/2012	6:16 AM	62	62	62	64	49.7	0	---	0	0	---	62	61.2	61.2	29.891	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	24	1	100	1
9/19/2012	6:17 AM	62	62	62	65	50.1	0	---	0	0	---	62	61.3	61.3	29.888	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	23	1	100	1
9/19/2012	6:18 AM	62	62	62	65	50.1	0	---	0	0	---	62	61.3	61.3	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	24	1	100	1
9/19/2012	6:19 AM	62	62	61.9	66	50.5	0	---	0	0	---	62	61.3	61.3	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	22	1	95.7	1
9/19/2012	6:20 AM	61.9	62	61.9	65	50	0	---	0	0	---	61.9	61.2	61.2	29.889	0	0	0.002	0	61.8	68	51.1	61.2	12.75	0.0751	24	1	100	1
9/19/2012	6:21 AM	61.9	61.9	61.9	65	50	0	---	0	0	---	61.9	61.2	61.2	29.891	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:22 AM	61.9	61.9	61.9	64	49.6	0	---	0	0	---	61.9	61.1	61.1	29.892	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:23 AM	61.8	61.9	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.894	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	24	1	100	1
9/19/2012	6:24 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.895	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:25 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.897	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:26 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.898	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:27 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.9	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	23	1	100	1
9/19/2012	6:28 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.901	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	24	1	100	1
9/19/2012	6:29 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.901	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	22	1	95.7	1
9/19/2012	6:30 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.903	0	0	0.002	0	61.6	68	50.9	61	12.75	0.0751	24	1	100	1
9/19/2012	6:31 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.905	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:32 AM	61.8	61.8	61.8	65	49.9	0	---	0	0	---	61.8	61.1	61.1	29.907	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	24	1	100	1
9/19/2012	6:33 AM	61.8	61.8	61.8	65	49.9	0	---	0	0	---	61.8	61.1	61.1	29.907	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:34 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.912	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:35 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.909	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	24	1	100	1
9/19/2012	6:36 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.913	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:37 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.912	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	24	1	100	1
9/19/2012	6:38 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.913	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:39 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.915	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:40 AM	61.8	61.8	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.914	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	24	1	100	1
9/19/2012	6:41 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.916	0	0	0.002	0	61.4	68	50.7	60.8	12.75	0.0752	23	1	100	1
9/19/2012	6:42 AM	61.8	61.8	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	24	1	100	1
9/19/2012	6:43 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.919	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:44 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.919	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:45 AM	61.8	61.8	61.7	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.919	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	24	1	100	1
9/19/2012	6:46 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:47 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	24	1	100	1
9/19/2012	6:48 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:49 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:50 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.917	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:51 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.918	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	21	1	91.3	1
9/19/2012	6:52 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.918	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	24	1	100	1
9/19/2012	6:53 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.919	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	22	1	95.7	1
9/19/2012	6:54 AM	61.8	61.8	61.8	64	49.5	0	---	0	0	---	61.8	61	61	29.921	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	22	1	95.7	1
9/19/2012	6:55 AM	61.8	61.8	61.8	65	49.9	0	---	0	0	---	61.8	61.1	61.1	29.922	0	0	0.002	0	61.3	68	50.6	60.6	12.75	0.0752	23	1	100	1
9/19/2012	6:56 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.922	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	22	1	95.7	1
9/19/2012	6:57 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.923	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	24	1	100	1
9/19/2012	6:58 AM	61.9	61.9	61.8	63	49.2	0	---	0	0	---	61.9	61	61	29.925	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	22	1	95.7	1
9/19/2012	6:59 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.925	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	24	1	100	1
9/19/2012	7:00 AM	62	62	61.9	63	49.3	0	---	0	0	---	62	61.1	61.1	29.924	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	22	1	95.7	1
9/19/2012	7:01 AM	62	62	62	63	49.3	0	---	0	0	---	62	61.1	61.1	29.924	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	24	1	100	1
9/19/2012	7:02 AM	62	62	62	61	48.4	0	---	0	0	---	62	60.9	60.9	29.922	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	22	1	95.7	1
9/19/2012	7:03 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.921	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	22	1	95.7	1
9/19/2012	7:04 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.922	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	24	1	100	1
9/19/2012	7:05 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.919	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	23	1	100	1
9/19/2012	7:06 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.918	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	24	1	100	1
9/19/2012	7:07 AM	61.9	62	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.921	0	0	0.002	0	61.1	68	50.5	60.4	12.75	0.0753	23	1	100	1
9/19/2012	7:08 AM	61.9	61.9	61.9	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.92	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	23	1	100	1
9/19/2012	7:09 AM	61.9	62	61.9	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.922	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	24	1	100	1
9/19/2012	7:10 AM	61.9	61.9	61.9	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.922	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	23	1	100	1
9/19/2012	7:11 AM	61.9	61.9	61.9	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.926	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	23	1	100	1
9/19/2012	7:12 AM	61.9	61.9	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.925	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	23	1	100	1
9/19/2012	7:13 AM	61.9	61.9	61.9	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.925	0	0	0.002	0	61.1	67	50.1	60.4	12.53	0.0753	24	1	100	1
9/19/2012	7:14 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.925	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	23	1	100	1
9/19/2012	7:15 AM	61.8	61.9	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	23	1	100	1
9/19/2012	7:16 AM	61.8	61.9	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	24	1	100	1
9/19/2012	7:17 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:18 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.925	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:19 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:20 AM	61.9	61.9	61.8	63	49.2	0	---	0	0	---	61.9	61	61	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:21 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.928	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:22 AM	61.9	61.9	61.9	64	49.6	0	---	0	0	---	61.9	61.1	61.1	29.93	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:23 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	24	1	100	1
9/19/2012	7:24 AM	62	62	61.9	64	49.7	0	---	0	0	---	62	61.2	61.2	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	23	1	100	1
9/19/2012	7:25 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.928	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	24	1	100	1
9/19/2012	7:26 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.929	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	23	1	100	1
9/19/2012	7:27 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.93	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	23	1	100	1
9/19/2012	7:28 AM	61.9	61.9

Meteorological Data
Equity IRM

9/19/2012	8:46 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.971	0	0	0.001	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:47 AM	63	63	62.9	59	48.4	0	---	0	0	---	63	61.8	61.8	29.971	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:48 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.974	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:49 AM	63	63	63	59	48.4	0	---	0	0	---	63	61.8	61.8	29.977	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:50 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.976	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:51 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.979	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	21	1	91.3	1
9/19/2012	8:52 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:53 AM	62.9	62.9	62.9	57	47.4	0	---	0	0	---	62.9	61.6	61.6	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:54 AM	62.8	62.8	62.8	57	47.3	0	---	0	0	---	62.8	61.5	61.5	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:55 AM	62.6	62.7	62.6	57	47.1	0	---	0	0	---	62.6	61.3	61.3	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	24	1	100	1
9/19/2012	8:56 AM	62.5	62.6	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.2	29.982	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0743	22	1	95.7	1
9/19/2012	8:57 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.98	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	24	1	100	1
9/19/2012	8:58 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.978	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:59 AM	62.5	62.5	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.2	29.977	0	0	0.002	0	68.5	57	52.7	67.8	10.58	0.0743	24	1	100	1
9/19/2012	9:00 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.978	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0743	23	1	100	1
9/19/2012	9:01 AM	62.5	62.5	62.5	59	48	0	---	0	0	---	62.5	61.3	61.3	29.977	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0743	23	1	100	1
9/19/2012	9:02 AM	62.6	62.6	62.5	59	48.1	0	---	0	0	---	62.6	61.4	61.4	29.979	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0743	24	1	100	1
9/19/2012	9:03 AM	62.6	62.6	62.6	59	48.1	0	---	0	0	---	62.6	61.4	61.4	29.98	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0743	23	1	100	1
9/19/2012	9:04 AM	62.6	62.6	62.6	58	47.6	0	---	0	0	---	62.6	61.3	61.3	29.981	0	0	0.002	0	68.2	57	52.4	67.6	10.59	0.0743	24	1	100	1
9/19/2012	9:05 AM	62.6	62.6	62.5	58	47.6	0	---	0	0	---	62.6	61.3	61.3	29.982	0	0	0.002	0	68.2	57	52.4	67.6	10.59	0.0743	23	1	100	1
9/19/2012	9:06 AM	62.5	62.6	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.2	29.983	0	0	0.002	0	68.2	57	52.4	67.6	10.59	0.0743	23	1	100	1
9/19/2012	9:07 AM	62.6	62.6	62.6	58	47.6	0	---	0	0	---	62.6	61.3	61.3	29.981	0	0	0.002	0	68	57	52.2	67.4	10.59	0.0744	24	1	100	1
9/19/2012	9:08 AM	62.7	62.7	62.6	58	47.7	0	---	0	0	---	62.7	61.5	61.5	29.982	0	0	0.002	0	68	57	52.2	67.4	10.59	0.0744	23	1	100	1
9/19/2012	9:09 AM	62.7	62.8	62.7	57	47.2	0	---	0	0	---	62.7	61.4	61.4	29.981	0	0	0.002	0	68	57	52.2	67.4	10.59	0.0744	24	1	100	1
9/19/2012	9:10 AM	62.7	62.7	62.7	57	47.2	0	---	0	0	---	62.7	61.4	61.4	29.984	0	0	0.002	0	68	56	51.7	67.3	10.39	0.0744	23	1	100	1
9/19/2012	9:11 AM	62.7	62.7	62.7	57	47.2	0	---	0	0	---	62.7	61.4	61.4	29.984	0	0	0.002	0	68	56	51.7	67.3	10.39	0.0744	24	1	100	1
9/19/2012	9:12 AM	62.8	62.8	62.7	58	47.8	0	---	0	0	---	62.8	61.6	61.6	29.987	0	0	0.002	0	68	56	51.7	67.3	10.39	0.0744	23	1	100	1
9/19/2012	9:13 AM	62.9	62.9	62.8	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.984	0	0	0.001	0	68.2	57	52.4	67.6	10.59	0.0743	23	1	100	1
9/19/2012	9:14 AM	63.1	63.1	63	58	48.1	0	---	0	0	---	63.1	61.9	61.9	29.985	0	0	0.001	0	68.4	56	52.1	67.6	10.38	0.0743	24	1	100	1
9/19/2012	9:15 AM	63.2	63.2	63.1	57	47.7	0	---	0	0	---	63.2	61.9	61.9	29.988	0	0	0.001	0	68.5	56	52.2	67.7	10.38	0.0743	23	1	100	1
9/19/2012	9:16 AM	63.4	63.4	63.3	57	47.9	0	---	0	0	---	63.4	62.2	62.2	29.988	0	0	0.001	0	68.7	56	52.4	67.8	10.38	0.0743	24	1	100	1
9/19/2012	9:17 AM	63.5	63.5	63.4	57	48	0	---	0	0	---	63.5	62.3	62.3	29.99	0	0	0.001	0	68.9	56	52.6	68	10.37	0.0743	23	1	100	1
9/19/2012	9:18 AM	63.6	63.6	63.5	57	48.1	0	---	0	0	---	63.6	62.4	62.4	29.988	0	0	0.001	0	69.2	56	52.8	68.2	10.37	0.0742	23	1	100	1
9/19/2012	9:19 AM	63.7	63.7	63.6	57	48.2	0	---	0	0	---	63.7	62.5	62.5	29.991	0	0	0.001	0	69.4	56	53	68.4	10.36	0.0742	24	1	100	1
9/19/2012	9:20 AM	63.7	63.7	63.7	57	48.2	0	---	0	0	---	63.7	62.5	62.5	29.991	0	0	0.001	0	69.7	56	53.3	68.6	10.36	0.0741	23	1	100	1
9/19/2012	9:21 AM	63.7	63.7	63.7	57	48.2	0	---	0	0	---	63.7	62.5	62.5	29.989	0	0	0.001	0	69.9	56	53.5	68.7	10.35	0.0741	24	1	100	1
9/19/2012	9:22 AM	63.7	63.7	63.7	57	48.2	0	---	0	0	---	63.7	62.5	62.5	29.985	0	0	0.001	0	70.2	56	53.8	69.1	10.35	0.074	23	1	100	1
9/19/2012	9:23 AM	63.7	63.7	63.7	57	48.2	0	---	0	0	---	63.7	62.5	62.5	29.987	0	0	0.001	0	70.4	56	54	69.3	10.34	0.074	23	1	100	1
9/19/2012	9:24 AM	63.7	63.7	63.7	56	47.7	0	---	0	0	---	63.7	62.4	62.4	29.991	0	0	0.001	0	70.6	55	53.6	69.5	10.14	0.074	23	1	100	1
9/19/2012	9:25 AM	63.6	63.7	63.6	57	48.1	0	---	0	0	---	63.6	62.4	62.4	29.991	0	0	0.001	0	70.7	55	53.7	69.6	10.14	0.074	23	1	100	1
9/19/2012	9:26 AM	63.6	63.6	63.6	57	48.1	0	---	0	0	---	63.6	62.4	62.4	29.99	0	0	0.001	0	70.9	55	53.9	69.9	10.13	0.0739	24	1	100	1
9/19/2012	9:27 AM	63.5	63.6	63.5	56	47.5	0	---	0	0	---	63.5	62.2	62.2	29.992	0	0	0.001	0	70.9	55	53.9	69.9	10.13	0.0739	23	1	100	1
9/19/2012	9:28 AM	63.5	63.5	63.5	58	48.5	0	---	0	0	---	63.5	62.4	62.4	29.995	0	0	0.001	0	70.9	55	53.9	69.9	10.13	0.0739	24	1	100	1
9/19/2012	9:29 AM	63.5	63.5	63.5	58	48.5	0	---	0	0	---	63.5	62.4	62.4	29.994	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	23	1	100	1
9/19/2012	9:30 AM	63.5	63.5	63.5	57	48	0	---	0	0	---	63.5	62.3	62.3	29.994	0	0	0.001	0	71.1	53	53.1	70	9.81	0.0739	23	1	100	1
9/19/2012	9:31 AM	63.4	63.5	63.4	57	47.9	0	---	0	0	---	63.4	62.2	62.2	29.999	0	0	0.001	0	71.1	54	53.6	70.1	9.93	0.0739	24	1	100	1
9/19/2012	9:32 AM	63.3	63.3	63.3	57	47.8	0	---	0	0	---	63.3	62.1	62.1	30	0	0	0.001	0	71.1	54	53.6	70.1	9.93	0.0739	23	1	100	1
9/19/2012	9:33 AM	63.2	63.3	63.2	58	48.2	0	---	0	0	---	63.2	62	62	30	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	24	1	100	1
9/19/2012	9:34 AM	63.3	63.3	63.3	58	48.3	2	NE	0.03	5	NNE	63.3	62.1	62.1	29.999	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	22	1	95.7	1
9/19/2012	9:35 AM	63.3	63.3	63.3	57	47.8	5	E	0.08	8	ESE	63.3	62.1	62.1	29.999	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	23	1	100	1
9/19/2012	9:36 AM	63.4	63.4	63.3	59	48.8	3	ENE	0.05	8	ESE	63.4	62.3	62.3	29.999	0	0	0.001	0	70.9	55	53.9	69.9	10.13	0.0739	23	1	100	1
9/19/2012	9:37 AM	63.4	63.4	63.4	58	48.4	3	E	0.05	5	E	63.4	62.2	62.2	29.999	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	22	1	95.7	1
9/19/2012	9:38 AM	63.5	63.5	63.4	57	48	6	NE	0.1	10	NNW	63.5	62.3	62.3	30.002	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	23	1	100	1
9/19/2012	9:39 AM	63.6	63.6	63.5	57	48.1	5	NNE	0.08	10	NNW	63.6	62.4	62.4	30	0	0	0.001	0	71.1	55	54.1	70.1	10.13	0.0739	22	1	95.7	1
9/19/2012	9:40 AM	63.7	63.7	63.6	57	48.2	5	NNE	0.08	8	NNE	63.7	62.5	62.5	30.002	0	0	0.001	0	71.2	54	53.7	70.2	9.93	0.0739	24	1	100	1
9/19/2012	9:41 AM	63.8	63.8	63.6	57	48.3	6	E	0.1	11	NNE	63.8	62.6	62.6	30	0	0	0.001	0	71.2	55	54.2	70.3	10.13	0.0739	22	1	95.7	1
9/19/2012	9:42 AM	63.8	63.8	63.8	56	47.8	4	NE	0.07	7	E	63.8	62.6	62.6	30.004	0	0	0.001	0	71.4	54	53.9	70.5	9.92	0.0739	23	1	100	1
9/19/2012	9:43 AM	63.9	63.9	63.8	57	48.4	4	NNE	0.07	11	NE	63.9	62.7	62.7	30.001	0	0	0.001	0	71.6	54	54.1	70.8	9.92	0.0738	22	1	95.7	1
9/19/2012	9:44 AM	63.9	63.9	63.9	57	48.4	5	NNE	0.08	9	N	63.9	62.7	62.7	30	0	0	0.001	0	71.8	54	54.3	71.1	9.91	0.0738	23	1	100	1
9/19/2012	9:45 AM	64.1	64.1	63.9	57	48.5	4	E	0.07	6	E	64.1	63	63	30	0	0	0.001	0	71.9	54	54.3	71.3	9.91	0.0738	23	1	100	1
9/19/2012	9:46 AM	64.2	64.2	64.1	57	48.6	3	ENE	0.05	5	E	64.2	63.1	63.1	30.003	0	0	0.001	0	71.9	53	53.8	71.2	9.77	0.0738	22	1	95.7	1
9/19/2012	9:47 AM	64.4	64.4	64.3	57	48.8	5	E	0.08	7	E	64.4	63.3	63.3	30.004	0	0	0	0	72.1	53	54	71.5	9.77	0.0738	23	1	100	1
9/19/2012	9:48 AM	64.5	64.5	64.4	55	48	7	ENE	0.12	9	ENE	64.5	63.3	63.3	30.001	0	0	0	0	72.3	54	54.7	71.9	9.9	0.0737	24	1	100	1
9/19/2012	9:49 AM	64.5	64.5	64.5	55	48	5	E	0.08	7	ENE	64.5	63.3	63.3	30.004	0	0	0	0	72.4	53	54.3	71.9	9.75	0.0737	23	1	100	1
9/19/2012	9:50 AM	64.5	64.5	64.5	55	48	6	E	0.1	10	ENE	64.5	63.3	63.3	30.001	0	0	0	0	72.6	54	55	72.3	9.9	0.0737	24	1	100	1
9/19/2012	9:51 AM	64.4	64.5	64.4	53	46.9	9	ENE	0.15	15	E	62.9	62.9	61.4	30	0	0	0	0	73	53	54.9	72.8	9.73	0.0736	23	1	100	1
9/19/2012	9:52 AM	64.3	64.4	64.3	54	47.3	6	ENE	0.1	15	E	64.3	62.9	62.9	29.997	0	0	0	0	73	53	54.9	72.8	9.73	0.0736	24	1	100	1
9/19/2012	9:53 AM	64.2	64.3	64.2	54	47.2	6	ESE	0.1	9	ENE	64.2	62.8	62.8	29.996	0	0	0.001	0	73.1	52	54.4	72.8	9.59	0.0736	23	1	100	1
9/19/2012	9:54 AM	64.2	64.2	64.2	55	47.7	4	ENE	0.07	9	NW	64.2	62.9	62.9	29.997	0	0	0.001	0	73.3	52	54.6	73.1	9.58	0.0736	23	1	100	1
9/19/2012	9:55 AM	64.2	64.2	64.2	55	47.7	6	NNE	0.1	10	NW	64.2	62.9	62.9	29.997	0	0	0.001	0	73.3	53	55.1	73.2	9.72	0.0736	24	1	100	1
9/19/2012	9:56 AM	64.3	64.3	64.2	55	47.8	7	E	0.12	9	NNE	64.3	63	63	29.999	0	0	0	0	73.5	53	55.3	73.4	9.71	0.0735	23	1	100	1
9/19/2012	9:57 AM	64.3	64.3	64.3	55	47.8	6	N	0.1	11	NNE	64.3	63	63	30	0	0	0	0	73.5	52	54.8	73.3	9.58	0.0736	24	1	100	1
9/19/2012	9:58 AM	64.3	64.3	64.3	55	47.8	6	E	0.1	8	E	64.3	63	63	29.999	0	0	0	0	73.5	52	54.8	73.3	9.58	0.0736	23	1	100	1
9/19/2012	9:59 AM	64.4	64.4	64.3	54	47.4	6	ENE	0.1	9	ENE	64.4	63	63	30	0	0	0	0	73.5	53	55.3	73.4	9.71	0.0735	23	1	100	1
9/19/2012	10:00 AM	64.5	64.5	64.4	55	48	6	E	0.1	8	NNE	64.5	63.3	63.3	30.001	0	0	0	0	73.6	53	55.4	73.5	9.71	0.0735	24	1	100	1
9/19/2012	10:01 AM	64.5	64.5	64.5	53	47	6	E	0.1	9	NNE	64.5	63	63	30.001	0	0	0	0	73.6	53	55.4	73.5	9.71	0.0735	23	1	100	1
9/19/2012	10:02 AM	64.5	64.5	64.5	53	47	5	ENE	0.08	9	ENE	64.5	63	63	30.003	0	0	0	0	73.6	52	54.9	73.4	9.58	0.0735	24	1	100	1
9/19/2012	10:03 AM	64.6	64.6	64.5	53	47.1	7	NNW	0.12	14	NNW	64.6	63.2	63.2	30.004	0	0	0	0	73.6	53	55.4	73.5	9.71	0.0735	23	1	100	1
9/19/2012	10:04 AM	64.6	64.7	64.6	52	46.6	6	NNE	0.1	10	NNE	64.6	63.1	63.1	30.001	0	0	0	0	73.8	53	55.6	73.8	9.7	0.0735	24	1	100	1
9/19/2012	10:05 AM	64.7	64.7	64.6	53	47.2	5	NNE	0.08	7	ENE	64.7	63.3	63.3	30.002	0	0	0	0	73.8	52	55.1	73.7	9.57	0.0735	23	1	100	1
9/19/2012	10:06 AM	64.7	64.7	64.7	53	47.2	3	NNE	0.05	6	N	64.7	63.3	63.3	30.003	0	0	0	0	74	53	55.8	74	9.69	0.0735	23	1	100	1
9/19/2012	10:07 AM	64.9	64.9	64.8	53	47.4	6	NE	0.1	9	ENE	64.9	63.5	63.5	30.002	0	0	0	0	74	52	55.3	73.9	9.57	0.0735	24	1	100	1
9/19/2012	10:08 AM	65.1	65.1	64.9	52	47	5	NE	0.08	10	ENE	65.1	63.6	63.6	30.004	0	0	0	0	74.2	52	55.4	74.2	9.57	0.0734	23	1	100	1
9/19/2012	10:09 AM	65.2	65.2	65.1	51	46.6	6	NNE	0.1	12	N	65.2	63.6	63.6	30.003	0	0	0	0	74.3	52	55.5	74.3	9.56	0.0734	24	1	100	1
9/19/2012	10:10 AM	65.3	65.3	65.3	51	46.7	6	ENE	0.1	10	E	65.3	63.7	63.7	30.002	0	0	0	0	74.3	52	55.5	74.3	9.56	0.0734	22	1	95.7	1
9/19/2012	10:11 AM	65.5	65.5	65.4	51	46.9	4	E	0.07	8	ENE	65.5	63.9	63.9	30.005	0	0	0	0	74.5	52	55.7	74.6	9.56	0.0734	23	1	100	1
9/19/2012	10:12 AM	65.7	65.7	65.5	50	46.5	5	NNE	0.08	9	NW	65.7	64.1	64.1	30.005	0	0	0	0	74.7	51	55.4	74.8	9.36	0.0734	24	1	100	1
9/19/2012	10:13 AM	65.7	65.7	65.6	49	46	6	N	0.1	12	N	65.7	64	64	30.003	0	0	0	0	74.7	51	55.4	74.8	9.36	0.0734	23	1	100	1
9/19/2012	10:14 AM	65.6	65.7	65.6	49	45.9	7	NNE	0.12	11	ENE	65.6	63.9	63.9	30.003	0	0	0	0	74.9	51	55.6	75	9.35	0.0733	24	1	100	1
9/19/2012	10:15 AM	65.5	65.6	65.5	50	46.4	6	NE	0.1	13	NNW	65.5	63.8	63.8	30.002	0	0	0	0	75	51	55.6	75.2	9.35	0.0733	23	1	100	1
9/19/2012	10:16 AM	65.5	65.5	65.5	50	46.4	4	NNW	0.07	8	NNW	65.5	63.8	63.8	30.002	0	0	0	0	75	51	55.6	75.2	9.35	0.0733	23	1	100	1
9/19/2012	10:17 AM	65.6	65.6	65.6	50	46.5	6	N	0.1	11	NNW	65.6	64	64	30.006	0	0	0	0	75.2	51	55.8	75.4	9.35	0.0733	23	1	100	1
9/19/2012	10:18 AM	65.7	65.7	65.6	50	46.5	5	N	0.08	10	N	65.7	64.1	64.1	30.005	0	0	0	0	75.2	51	55.8	75.4	9.35	0.0733	23	1	100	1
9/19/2012	10:19 AM	65.7	65.7	65.7	50	46.5	7	NNW	0.12	14	NW	65.7	64.1	64.1	30.008	0	0	0	0	75.4	51	56	75.5	9.35	0.0733	24	1	100	1
9/19/2012	10:20 AM	65.8	65.8	65.7	50	46.6	5	ESE	0.08	8	NNW	65.8	64.2	64.2	30.008	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0733	23	1	100	1
9/19/2012	10:21 AM	65.8	65.8	65.7	52	47.7	4	NE	0.07	7	ENE	65.8	64.4	64.4	30.006	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	24	1	100	1
9/19/2012	10:22 AM	65.9	65.9	65.9	51	47.3	5	NE	0.08	9	E	65.9	64.4	64.4	30.007	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	23	1	100	1
9/19/2012	10:23 AM	65.9	66	65.9	51	47.3	7	ENE	0.12	10	ENE	65.9	64.4	64.4	30.008	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	23	1	100	1
9/19/2012	10:24 AM	65.8	65.9	65.8	50	46.6	4	NE	0.07	6	NNE	65.8	64.2	64.2	30.005	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	24	1	100	1
9/19/2012	10:25 AM	65.8	65.9	65.8	52	47.7	3	ENE	0.05	8	ENE	65.8	64.4	64.4	30.004	0	0	0	0.001	75.9	51	56.5	76	9.35	0.0732	23	1	100	1
9/19/2012	10:26 AM	65.9	65.9	65.8	52	47.8	4	NNE	0.07	5	NNE	65.9	64.5	64.5	30.004	0	0	0	0.001	76.1	51	56.7	76.1	9.35	0.0731	23	1	100	1
9/19/2012	10:27 AM	66	66	65.9	52	47.9

Meteorological Data
Equity IRM

9/19/2012	11:46 AM	67.9	67.9	67.8	47	46.9	4	NNE	0.07	9	NNW	67.9	66.3	66.3	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:47 AM	68	68	67.9	47	47	5	NNW	0.08	8	NNW	68	66.4	66.4	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:48 AM	68	68.1	68	46	46.4	8	E	0.13	13	N	67.3	66.3	65.6	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:49 AM	68.2	68.2	68	47	47.2	6	E	0.1	9	NE	68.2	66.6	66.6	30.027	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:50 AM	68.3	68.3	68.2	47	47.3	5	NE	0.08	10	NNE	68.3	66.7	66.7	30.029	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:51 AM	68.4	68.5	68.3	47	47.4	6	NNW	0.1	9	NNW	68.4	66.8	66.8	30.028	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:52 AM	68.4	68.5	68.4	45	46.2	6	NNW	0.1	10	NNW	68.4	66.6	66.6	30.029	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	11:53 AM	68.4	68.4	68.4	46	46.8	8	NNW	0.13	12	WNW	67.7	66.7	66	30.026	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	24	1	100	1
9/19/2012	11:54 AM	68.5	68.5	68.4	45	46.3	7	E	0.12	11	ENE	68.5	66.6	66.6	30.026	0	0	0	0.002	78.6	40	52.3	77.8	7.58	0.073	22	1	95.7	1
9/19/2012	11:55 AM	68.4	68.5	68.4	45	46.2	6	E	0.1	8	ENE	68.4	66.6	66.6	30.028	0	0	0	0.002	78.4	41	52.7	77.6	7.75	0.073	24	1	100	1
9/19/2012	11:56 AM	68.4	68.4	68.4	45	46.2	7	E	0.12	10	E	68.4	66.6	66.6	30.027	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:57 AM	68.3	68.3	68.3	46	46.7	7	E	0.12	10	ENE	68.3	66.6	66.6	30.032	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:58 AM	68.3	68.3	68.3	46	46.7	7	ENE	0.12	10	ENE	68.3	66.6	66.6	30.032	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	24	1	100	1
9/19/2012	11:59 AM	68.2	68.3	68.2	46	46.6	6	ENE	0.1	10	E	68.2	66.5	66.5	30.032	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	23	1	100	1
9/19/2012	12:00 PM	68.1	68.2	68.1	46	46.5	7	E	0.12	11	ENE	68.1	66.4	66.4	30.031	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	24	1	100	1
9/19/2012	12:01 PM	68	68	68	47	47	7	NNE	0.12	13	N	68	66.4	66.4	30.031	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	23	1	100	1
9/19/2012	12:02 PM	67.9	67.9	67.9	46	46.3	5	N	0.08	9	N	67.9	66.2	66.2	30.031	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	23	1	100	1
9/19/2012	12:03 PM	67.8	67.9	67.8	46	46.3	5	ENE	0.08	8	ENE	67.8	66.1	66.1	30.031	0	0	0	0.002	78.2	42	53.2	77.5	7.89	0.073	24	1	100	1
9/19/2012	12:04 PM	67.9	67.9	67.8	47	46.9	4	ENE	0.07	7	ENE	67.9	66.3	66.3	30.032	0	0	0	0.002	78	42	53	77.3	7.89	0.0731	23	1	100	1
9/19/2012	12:05 PM	68	68	67.9	46	46.4	3	ENE	0.05	8	N	68	66.3	66.3	30.033	0	0	0	0.002	78	43	53.7	77.4	8.05	0.0731	24	1	100	1
9/19/2012	12:06 PM	68.2	68.2	68	47	47.2	5	ENE	0.08	8	ENE	68.2	66.6	66.6	30.031	0	0	0	0.002	78	43	53.7	77.4	8.05	0.0731	22	1	95.7	1
9/19/2012	12:07 PM	68.4	68.4	68.2	46	46.8	5	ENE	0.08	9	ENE	68.4	66.7	66.7	30.033	0	0	0	0.002	78	43	53.7	77.4	8.05	0.0731	24	1	100	1
9/19/2012	12:08 PM	68.4	68.4	68.4	45	46.2	6	ENE	0.1	11	ENE	68.4	66.6	66.6	30.033	0	0	0	0.002	78	43	53.7	77.4	8.05	0.0731	22	1	95.7	1
9/19/2012	12:09 PM	68.4	68.4	68.3	46	46.8	3	ENE	0.05	8	NW	68.4	66.7	66.7	30.034	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:10 PM	68.4	68.4	68.4	46	46.8	4	ENE	0.07	6	NNW	68.4	66.7	66.7	30.034	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:11 PM	68.5	68.5	68.4	46	46.9	5	E	0.08	7	E	68.5	66.8	66.8	30.033	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:12 PM	68.6	68.6	68.6	45	46.4	7	ENE	0.12	12	NE	68.6	66.7	66.7	30.034	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:13 PM	68.6	68.6	68.6	45	46.4	6	E	0.1	10	NNE	68.6	66.7	66.7	30.035	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	22	1	95.7	1
9/19/2012	12:14 PM	68.6	68.6	68.6	45	46.4	4	N	0.07	8	NNW	68.6	66.7	66.7	30.035	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:15 PM	68.5	68.6	68.5	46	46.9	3	ENE	0.05	6	NNE	68.5	66.8	66.8	30.036	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:16 PM	68.6	68.6	68.5	46	47	2	E	0.03	8	ENE	68.6	66.8	66.8	30.035	0	0	0	0.002	77.9	43	53.6	77.3	8.05	0.0731	23	1	100	1
9/19/2012	12:17 PM	68.8	68.8	68.7	46	47.2	3	E	0.05	5	E	68.8	67	67	30.038	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	23	1	100	1
9/19/2012	12:18 PM	68.9	68.9	68.8	44	46.1	4	ENE	0.07	6	NNE	68.9	66.9	66.9	30.036	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	23	1	100	1
9/19/2012	12:19 PM	69	69	68.9	46	47.4	5	NE	0.08	8	ENE	69	67.2	67.2	30.038	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	24	1	100	1
9/19/2012	12:20 PM	69.1	69.1	69	43	45.7	5	NE	0.08	8	ENE	69.1	67	67	30.041	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	23	1	100	1
9/19/2012	12:21 PM	69.2	69.2	69.1	45	46.9	4	NNE	0.07	8	ESE	69.2	67.2	67.2	30.038	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	23	1	100	1
9/19/2012	12:22 PM	69.2	69.2	69.2	44	46.4	5	NNE	0.08	9	N	69.2	67.1	67.1	30.042	0	0	0	0.003	78	43	53.7	77.4	8.05	0.0731	24	1	100	1
9/19/2012	12:23 PM	69.1	69.2	69.1	44	46.3	4	NNE	0.07	6	NNE	69.1	67.1	67.1	30.04	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:24 PM	69.2	69.2	69.1	44	46.4	4	NNW	0.07	10	N	69.2	67.1	67.1	30.042	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	24	1	100	1
9/19/2012	12:25 PM	69.1	69.2	69.1	43	45.7	7	NNW	0.12	10	NW	69.1	67	67	30.041	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:26 PM	69	69.1	69	43	45.6	4	E	0.07	7	NE	69	66.9	66.9	30.042	0	0	0	0.003	78.2	41	52.6	77.4	7.75	0.0731	23	1	100	1
9/19/2012	12:27 PM	68.9	69	68.9	44	46.1	4	NE	0.07	8	SE	68.9	66.9	66.9	30.044	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	24	1	100	1
9/19/2012	12:28 PM	68.8	68.9	68.8	44	46	6	E	0.1	9	E	68.8	66.8	66.8	30.042	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:29 PM	68.8	68.8	68.8	45	46.6	6	NNW	0.1	8	NNW	68.8	66.9	66.9	30.042	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	24	1	100	1
9/19/2012	12:30 PM	68.9	68.9	68.8	45	46.7	4	E	0.07	6	E	68.9	67	67	30.042	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:31 PM	69.1	69.1	68.9	45	46.9	3	ENE	0.05	7	ENE	69.1	67.2	67.2	30.044	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	24	1	100	1
9/19/2012	12:32 PM	69.2	69.2	69.1	45	46.9	5	NNW	0.08	10	NNW	69.2	67.2	67.2	30.044	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:33 PM	69.3	69.3	69.3	43	45.8	3	E	0.05	8	NNW	69.3	67.1	67.1	30.048	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	23	1	100	1
9/19/2012	12:34 PM	69.3	69.3	69.3	44	46.4	4	NE	0.07	8	N	69.3	67.2	67.2	30.046	0	0	0	0.003	78.2	41	52.6	77.4	7.75	0.0731	24	1	100	1
9/19/2012	12:35 PM	69.3	69.3	69.3	45	47	4	NE	0.07	6	N	69.3	67.3	67.3	30.047	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	23	1	100	1
9/19/2012	12:36 PM	69.5	69.5	69.3	44	46.6	5	E	0.08	7	ENE	69.5	67.4	67.4	30.045	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	24	1	100	1
9/19/2012	12:37 PM	69.5	69.5	69.5	44	46.6	4	ENE	0.07	7	NW	69.5	67.4	67.4	30.043	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	23	1	100	1
9/19/2012	12:38 PM	69.5	69.5	69.5	44	46.6	5	NE	0.08	10	N	69.5	67.4	67.4	30.046	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	23	1	100	1
9/19/2012	12:39 PM	69.5	69.5	69.5	44	46.6	8	ENE	0.13	14	E	68.9	67.4	66.8	30.045	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	24	1	100	1
9/19/2012	12:40 PM	69.5	69.5	69.5	45	47.2	6	ENE	0.1	13	E	69.5	67.4	67.4	30.047	0	0	0	0.003	78	41	52.4	77.2	7.75	0.0731	23	1	100	1
9/19/2012	12:41 PM	69.5	69.5	69.5	43	46	5	ENE	0.08	8	ENE	69.5	67.3	67.3	30.045	0	0	0	0.003	78	41	52.4	77.2	7.75	0.0731	24	1	100	1
9/19/2012	12:42 PM	69.5	69.5	69.4	44	46.6	6	NE	0.1	9	NE	69.5	67.4	67.4	30.044	0	0	0	0.003	78	42	53	77.3	7.89	0.0731	23	1	100	1
9/19/2012	12:43 PM	69.4	69.4	69.4	44	46.5	3	E	0.05	6	E	69.4	67.3	67.3	30.044	0	0	0	0.003	78.2	42	53.2	77.5	7.89	0.0731	24	1	100	1
9/19/2012	12:44 PM	69.4	69.4	69.4	44	46.5	7	E	0.12	11	ENE	69.4	67.3	67.3	30.043	0	0	0	0.003	78.2	41	52.6	77.4	7.75	0.0731	23	1	100	1
9/19/2012	12:45 PM	69.3	69.4	69.3	43	45.8	7	NNE	0.12	11	NNE	69.3	67.1	67.1	30.044	0	0	0	0.003	78.2	41	52.6	77.4	7.75	0.0731	23	1	100	1
9/19/2012	12:46 PM	69.3	69.3	69.3	44	46.4	7	ENE	0.12	13	NE	69.3	67.2	67.2	30.046	0	0	0	0.003	78.2	41	52.6	77.4	7.75	0.0731	24	1	100	1
9/19/2012	12:47 PM	69.2	69.3	69.2	43	45.7	7	NE	0.12	11	NE	69.2	67	67	30.045	0	0	0	0.003	78.4	40	52.1	77.5	7.58	0.0731	23	1	100	1
9/19/2012	12:48 PM	69.1	69.2	69.1	43	45.7	5	E	0.08	7	E	69.1	67	67	30.046	0	0	0	0.003	78.4	41	52.7	77.6	7.75	0.0731	24	1	100	1
9/19/2012	12:49 PM	69	69.1	69	43	45.6	6	E	0.1	10	ENE	69	66.9	66.9	30.046	0	0	0	0.003	78.4	40	52.1	77.5	7.58	0.0731	23	1	100	1
9/19/2012	12:50 PM	68.9	69	68.9	43	45.5	7	E	0.12	9	ENE	68.9	66.8	66.8	30.046	0	0	0	0.003	78.4	40	52.1	77.5	7.58	0.0731	23	1	100	1
9/19/2012	12:51 PM	69	69	68.9	43	45.6	5	E	0.08	8	ENE	69	66.9	66.9	30.044	0	0	0	0.003	78.4	41	52.7	77.6	7.75	0.0731	24	1	100	1
9/19/2012	12:52 PM	69.1	69.1	69	44	46.3	6	ENE	0.1	10	NNE	69.1	67.1	67.1	30.043	0	0	0	0.003	78.4	41	52.7	77.6	7.75	0.0731	23	1	100	1
9/19/2012	12:53 PM	69.2	69.2	69.2	43	45.7	8	E	0.13	11	ENE	68.5	67	66.3	30.046	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	24	1	100	1
9/19/2012	12:54 PM	69.2	69.2	69.2	43	45.7	3	NNW	0.05	6	N	69.2	67	67	30.047	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	12:55 PM	69.2	69.2	69.2	43	45.7	5	E	0.08	11	N	69.2	67	67	30.048	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	22	1	95.7	1
9/19/2012	12:56 PM	69.4	69.4	69.3	43	45.9	6	NE	0.1	11	ENE	69.4	67.2	67.2	30.049	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	23	1	100	1
9/19/2012	12:57 PM	69.5	69.5	69.4	42	45.4	5	E	0.08	8	E	69.5	67.1	67.1	30.049	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	23	1	100	1
9/19/2012	12:58 PM	69.5	69.5	69.4	41	44.8	6	ENE	0.1	12	N	69.5	67.1	67.1	30.047	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	12:59 PM	69.5	69.5	69.5	42	45.4	8	E	0.13	11	E	68.9	67.1	66.5	30.047	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	1:00 PM	69.4	69.5	69.4	42	45.3	5	E	0.08	7	ENE	69.4	67.1	67.1	30.048	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	22	1	95.7	1
9/19/2012	1:01 PM	69.4	69.4	69.4	43	45.9	5	E	0.08	8	E	69.4	67.2	67.2	30.047	0	0	0	0.003	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	1:02 PM	69.4	69.4	69.4	42	45.3	7	ENE	0.12	10	E	69.4	67.1	67.1	30.048	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	22	1	95.7	1
9/19/2012	1:03 PM	69.3	69.4	69.3	42	45.2	8	E	0.13	9	E	68.7	67	66.4	30.049	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	24	1	100	1
9/19/2012	1:04 PM	69.3	69.3	69.3	43	45.8	6	E	0.1	8	E	69.3	67.1	67.1	30.049	0	0	0	0.003	78.6	40	52.3	77.8	7.58	0.0731	22	1	95.7	1
9/19/2012	1:05 PM	69.2	69.3	69.2	43	45.7	2	ENE	0.03	4	NE	69.2	67	67	30.05	0	0	0	0.003	78.8	40	52.4	78	7.57	0.073	23	1	100	1
9/19/2012	1:06 PM	69.2	69.2	69.2	42	45.1	5	ENE	0.08	9	ENE	69.2	66.9	66.9	30.047	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	23	1	100	1
9/19/2012	1:07 PM	69.3	69.3	69.2	42	45.2	5	E	0.08	8	E	69.3	67	67	30.048	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	22	1	95.7	1
9/19/2012	1:08 PM	69.3	69.3	69.3	41	44.6	3	E	0.05	7	ENE	69.3	66.9	66.9	30.046	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	24	1	100	1
9/19/2012	1:09 PM	69.3	69.3	69.3	40	43.9	5	ENE	0.08	11	E	69.3	66.8	66.8	30.046	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	23	1	100	1
9/19/2012	1:10 PM	69.3	69.4	69.3	41	44.6	7	E	0.12	11	ENE	69.3	66.9	66.9	30.049	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	24	1	100	1
9/19/2012	1:11 PM	69.3	69.3	69.3	43	45.8	4	ENE	0.07	7	ENE	69.3	67.1	67.1	30.049	0	0	0	0.003	78.8	38	51	77.8	7.27	0.0731	23	1	100	1
9/19/2012	1:12 PM	69.6	69.6	69.3	44	46.7	4	NE	0.07	8	ENE	69.6	67.4	67.4	30.048	0	0	0	0.003	78.8	39	51.7	77.9	7.47	0.0731	24	1	100	1
9/19/2012	1:13 PM	69.9	69.9	69.7	43	46.4	7	E	0.12	10	E	69.9	67.5	67.5	30.049	0	0	0	0.003	78.8	40	52.4	78	7.57	0.073	23	1	100	1
9/19/2012	1:14 PM	70.1	70.1	69.9	42	45.9	5	E	0.08	8	ENE	70.1	67.6	67.6	30.049	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	23	1	100	1
9/19/2012	1:15 PM	70.1	70.1	70.1	42	45.9	4	ENE	0.07	5	ENE	70.1	67.6	67.6	30.05	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	24	1	100	1
9/19/2012	1:16 PM	70.1	70.1	70.1	40	44.6	2	ENE	0.03	5	ESE	70.1	67.4	67.4	30.05	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	23	1	100	1
9/19/2012	1:17 PM	70	70.1	70	41	45.2	3	ESE	0.05	5	E	70	67.4	67.4	30.05	0	0	0	0.003	79.2	40	52.8	78.4	7.57	0.073	24	1	100	1
9/19/2012	1:18 PM	69.8	69.9	69.8	40	44.4	2	E	0.03	5	E	69.8	67.2	67.2	30.05	0	0	0	0.003	79.2	40	52.8	78.4	7.57	0.073	23	1	100	1
9/19/2012	1:19 PM	69.7	69.8	69.7	42	45.6	2	E	0.03	5	NW	69.7	67.3	67.3	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	23	1	100	1
9/19/2012	1:20 PM	69.8	69.8	69.7	42	45.7	2	NE	0.03	5	E	69.8	67.4	67.4	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	24	1	100	1
9/19/2012	1:21 PM	69.9	69.9	69.8	42	45.8	2	E	0.03	4	NE	69.9	67.4	67.4	30.051	0	0	0	0.003	79.3	39	52.2	78.4	7.46	0.073	23	1	100	1
9/19/2012	1:22 PM	70.1	70.1	69.9	41	45.3	4	ENE	0.07	9	ENE	70.1	67.5	67.5	30.052	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:23 PM	70.1	70.1	70.1	42	45.9	5	ESE	0.08	10	ENE	70.1	67.6	67.6	30.052	0	0	0	0.004	79.5	38	51.7	78.4	7.26	0.073	23	1	100	1
9/19/2012	1:24 PM	70.1	70.1	70.1	43	46.6	5	E	0.08	6	E	70.1	67.7	67.7	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:25 PM	70.2	70.2	70.1	43	46.6	3	ENE	0.05	5	NE	70.2	67.9	67.9	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:26 PM	70.3	70.3	70.2	42	46.1	3	E	0.05	6	E	70.3	67.9	67.9	30.05

Meteorological Data
Equity IRM

9/19/2012	2:46 PM	70.8	70.8	70.7	39	44.6	3	NE	0.05	7	NNE	70.8	68.3	68.3	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:47 PM	70.8	70.8	70.8	38	43.9	7	N	0.12	13	NW	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:48 PM	70.8	70.8	70.8	37	43.2	7	NNW	0.12	12	NNW	70.8	68.1	68.1	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:49 PM	70.8	70.8	70.8	38	43.9	2	ENE	0.03	3	ENE	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:50 PM	70.9	70.9	70.8	39	44.7	5	ENE	0.08	9	E	70.9	68.4	68.4	30.065	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:51 PM	71	71	70.9	38	44.1	6	E	0.1	8	NNE	71	68.4	68.4	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:52 PM	71.1	71.1	71	38	44.2	3	ENE	0.05	5	ENE	71.1	68.6	68.6	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:53 PM	71.2	71.2	71.2	38	44.3	4	E	0.07	6	E	71.2	68.7	68.7	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:54 PM	71.3	71.3	71.2	37	43.7	3	E	0.05	6	N	71.3	68.8	68.8	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:55 PM	71.4	71.4	71.3	38	44.5	6	NNW	0.1	9	N	71.4	69	69	30.068	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	2:56 PM	71.4	71.4	71.4	37	43.8	5	NNW	0.08	7	NW	71.4	68.9	68.9	30.067	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	24	1	100	1
9/19/2012	2:57 PM	71.4	71.4	71.4	37	43.8	1	NNW	0.02	4	NNW	71.4	68.9	68.9	30.068	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	22	1	95.7	1
9/19/2012	2:58 PM	71.4	71.4	71.4	37	43.8	3	NNE	0.05	6	E	71.4	68.9	68.9	30.066	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	24	1	100	1
9/19/2012	2:59 PM	71.5	71.5	71.5	37	43.8	5	E	0.08	7	E	71.5	69.1	69.1	30.068	0	0	0	0.005	79.2	36	49.9	78	6.97	0.0731	23	1	100	1
9/19/2012	3:00 PM	71.4	71.5	71.4	36	43	6	E	0.1	8	E	71.4	68.8	68.8	30.068	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	3:01 PM	71.3	71.4	71.3	36	43	5	E	0.08	7	ENE	71.3	68.7	68.7	30.069	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	3:02 PM	71.2	71.2	71.2	36	42.9	4	ENE	0.07	7	NE	71.2	68.6	68.6	30.067	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	3:03 PM	71.2	71.2	71.1	36	42.9	4	NE	0.07	8	ENE	71.2	68.6	68.6	30.067	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	24	1	100	1
9/19/2012	3:04 PM	71.2	71.2	71.1	37	43.6	4	NW	0.07	10	NW	71.2	68.6	68.6	30.066	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	3:05 PM	71.2	71.2	71.2	37	43.6	7	ENE	0.12	11	ENE	71.2	68.6	68.6	30.063	0	0	0	0.004	79.2	36	49.9	78	6.97	0.0731	23	1	100	1
9/19/2012	3:06 PM	71.3	71.3	71.3	37	43.7	7	E	0.12	10	ENE	71.3	68.8	68.8	30.067	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	24	1	100	1
9/19/2012	3:07 PM	71.3	71.3	71.3	36	43	9	ENE	0.15	12	ENE	69.9	68.7	67.3	30.066	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	23	1	100	1
9/19/2012	3:08 PM	71.1	71.2	71.1	35	42	6	ENE	0.1	10	ENE	71.1	68.3	68.3	30.066	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	24	1	100	1
9/19/2012	3:09 PM	71	71.1	71	36	42.7	3	E	0.05	6	E	71	68.3	68.3	30.066	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	23	1	100	1
9/19/2012	3:10 PM	71	71	71	36	42.7	4	NE	0.07	7	N	71	68.3	68.3	30.066	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	24	1	100	1
9/19/2012	3:11 PM	71	71	71	36	42.7	3	ENE	0.05	6	E	71	68.3	68.3	30.064	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:12 PM	71	71	71	36	42.7	3	NNE	0.05	5	N	71	68.3	68.3	30.064	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:13 PM	71.1	71.1	71	36	42.8	4	NE	0.07	8	NNE	71.1	68.4	68.4	30.064	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	3:14 PM	71.1	71.1	71	36	42.8	4	E	0.07	7	E	71.1	68.4	68.4	30.064	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:15 PM	71.2	71.2	71.1	36	42.9	5	E	0.08	8	ENE	71.2	68.6	68.6	30.065	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	3:16 PM	71.2	71.2	71.2	36	42.9	7	E	0.12	12	ESE	71.2	68.6	68.6	30.063	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:17 PM	71.2	71.2	71.2	36	42.9	4	ENE	0.07	8	N	71.2	68.6	68.6	30.064	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	23	1	100	1
9/19/2012	3:18 PM	71.2	71.2	71.2	37	43.6	5	NE	0.08	7	ENE	71.2	68.6	68.6	30.064	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	24	1	100	1
9/19/2012	3:19 PM	71.3	71.3	71.2	37	43.7	4	ENE	0.07	8	ENE	71.3	68.8	68.8	30.064	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:20 PM	71.3	71.3	71.3	36	43	5	ENE	0.08	9	E	71.3	68.7	68.7	30.065	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:21 PM	71.4	71.4	71.3	37	43.8	3	NNE	0.05	5	N	71.4	68.9	68.9	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:22 PM	71.5	71.5	71.4	37	43.8	3	E	0.05	7	E	71.5	69.1	69.1	30.067	0	0	0	0.005	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	3:23 PM	71.5	71.5	71.4	36	43.1	2	E	0.03	7	E	71.5	69	69	30.066	0	0	0	0.005	79	37	50.5	78	7.17	0.0731	22	1	95.7	1
9/19/2012	3:24 PM	71.4	71.5	71.4	35	42.3	3	NE	0.05	7	ENE	71.4	68.8	68.8	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	3:25 PM	71.5	71.5	71.4	36	43.1	4	NNE	0.07	7	NNE	71.5	69	69	30.066	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	3:26 PM	71.5	71.5	71.5	36	43.1	3	ESE	0.05	6	NNW	71.5	69	69	30.065	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	3:27 PM	71.4	71.5	71.4	36	43	3	ESE	0.05	7	N	71.4	68.8	68.8	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	3:28 PM	71.5	71.5	71.4	36	43.1	5	ENE	0.08	8	ENE	71.5	69	69	30.064	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	3:29 PM	71.6	71.6	71.5	37	43.9	6	N	0.1	9	N	71.6	69.2	69.2	30.067	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0732	22	1	95.7	1
9/19/2012	3:30 PM	71.7	71.7	71.6	37	44	5	N	0.08	10	NNE	71.7	69.4	69.4	30.066	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0732	24	1	100	1
9/19/2012	3:31 PM	71.7	71.7	71.7	36	43.3	7	NNE	0.12	11	NNW	71.7	69.3	69.3	30.069	0	0	0	0.005	78.8	37	50.3	77.7	7.17	0.0732	22	1	95.7	1
9/19/2012	3:32 PM	71.6	71.7	71.6	36	43.2	5	NNW	0.08	9	NNW	71.6	69.1	69.1	30.07	0	0	0	0.005	78.6	37	50.1	77.5	7.18	0.0732	23	1	100	1
9/19/2012	3:33 PM	71.7	71.7	71.6	36	43.3	4	NNW	0.07	7	NNW	71.7	69.3	69.3	30.068	0	0	0	0.005	78.6	37	50.1	77.5	7.18	0.0732	23	1	100	1
9/19/2012	3:34 PM	71.7	71.7	71.6	36	43.3	6	N	0.1	9	N	71.7	69.3	69.3	30.067	0	0	0	0.005	78.6	37	50.1	77.5	7.18	0.0732	23	1	100	1
9/19/2012	3:35 PM	71.7	71.7	71.7	36	43.3	3	NE	0.05	5	N	71.7	69.3	69.3	30.066	0	0	0	0.005	78.6	37	50.1	77.5	7.18	0.0732	24	1	100	1
9/19/2012	3:36 PM	71.8	71.8	71.7	36	43.4	4	N	0.07	8	NNW	71.8	69.4	69.4	30.066	0	0	0	0.005	78.4	36	49.2	77.2	6.98	0.0732	23	1	100	1
9/19/2012	3:37 PM	71.8	71.8	71.8	35	42.7	2	NE	0.03	3	N	71.8	69.3	69.3	30.064	0	0	0	0.005	78.4	36	49.2	77.2	6.98	0.0732	24	1	100	1
9/19/2012	3:38 PM	71.8	71.8	71.8	36	43.4	2	ENE	0.03	4	NE	71.8	69.4	69.4	30.066	0	0	0	0.005	78.2	35	48.3	76.9	6.89	0.0733	23	1	100	1
9/19/2012	3:39 PM	71.7	71.7	71.7	36	43.3	3	ENE	0.05	6	E	71.7	69.3	69.3	30.066	0	0	0	0.005	78.2	35	48.3	76.9	6.89	0.0733	24	1	100	1
9/19/2012	3:40 PM	71.8	71.8	71.7	37	44.1	3	NNE	0.05	5	E	71.8	69.5	69.5	30.066	0	0	0	0.005	78	36	48.9	76.8	6.99	0.0733	23	1	100	1
9/19/2012	3:41 PM	71.7	71.8	71.7	36	43.3	3	NE	0.05	6	N	71.7	69.3	69.3	30.063	0	0	0	0.005	78	36	48.9	76.8	6.99	0.0733	23	1	100	1
9/19/2012	3:42 PM	71.7	71.7	71.7	36	43.3	5	NNE	0.08	8	NNE	71.7	69.3	69.3	30.064	0	0	0	0.005	78	36	48.9	76.8	6.99	0.0733	24	1	100	1
9/19/2012	3:43 PM	71.7	71.7	71.6	36	43.3	5	ENE	0.08	7	ENE	71.7	69.3	69.3	30.064	0	0	0	0.005	78	36	48.9	76.8	6.99	0.0733	23	1	100	1
9/19/2012	3:44 PM	71.5	71.6	71.5	36	43.1	6	ENE	0.1	8	ENE	71.5	69	69	30.064	0	0	0	0.005	78	37	49.6	76.9	7.19	0.0733	24	1	100	1
9/19/2012	3:45 PM	71.4	71.5	71.4	36	43	4	ENE	0.07	7	ENE	71.4	68.8	68.8	30.065	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	22	1	95.7	1
9/19/2012	3:46 PM	71.4	71.4	71.4	36	43	4	ENE	0.07	5	E	71.4	68.8	68.8	30.063	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	23	1	100	1
9/19/2012	3:47 PM	71.4	71.4	71.3	36	43	4	E	0.07	7	E	71.4	68.8	68.8	30.063	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	24	1	100	1
9/19/2012	3:48 PM	71.3	71.4	71.3	35	42.2	5	ENE	0.08	8	ENE	71.3	68.6	68.6	30.063	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	23	1	100	1
9/19/2012	3:49 PM	71.2	71.3	71.2	36	42.9	2	E	0.03	5	E	71.2	68.6	68.6	30.065	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	23	1	100	1
9/19/2012	3:50 PM	71.2	71.2	71.2	34	41.4	4	ENE	0.07	5	E	71.2	68.4	68.4	30.064	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	23	1	100	1
9/19/2012	3:51 PM	71.2	71.2	71.2	34	41.4	7	E	0.12	9	E	71.2	68.4	68.4	30.064	0	0	0	0.004	78	37	49.6	76.9	7.19	0.0733	23	1	100	1
9/19/2012	3:52 PM	71.2	71.2	71.2	34	41.4	3	E	0.05	6	E	71.2	68.4	68.4	30.066	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	23	1	100	1
9/19/2012	3:53 PM	71.2	71.2	71.2	34	41.4	5	ENE	0.08	8	ENE	71.2	68.4	68.4	30.065	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	23	1	100	1
9/19/2012	3:54 PM	71	71.1	71	33	40.4	4	ENE	0.07	8	ENE	71	68	68	30.065	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	23	1	100	1
9/19/2012	3:55 PM	70.9	71	70.9	34	41.1	4	ENE	0.07	7	ENE	70.9	68	68	30.065	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	23	1	100	1
9/19/2012	3:56 PM	70.9	70.9	70.9	34	41.1	4	ENE	0.07	7	ENE	70.9	68	68	30.068	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	24	1	100	1
9/19/2012	3:57 PM	71	71	70.9	34	41.2	5	NNE	0.08	9	ESE	71	68.1	68.1	30.066	0	0	0	0.004	78.2	37	49.8	77.1	7.19	0.0733	23	1	100	1
9/19/2012	3:58 PM	71.1	71.1	71	34	41.3	3	NE	0.05	6	NNW	71.1	68.2	68.2	30.066	0	0	0	0.004	78.2	38	50.5	77.2	7.29	0.0732	22	1	95.7	1
9/19/2012	3:59 PM	71.2	71.2	71.1	34	41.4	3	NE	0.05	6	NNW	71.2	68.4	68.4	30.064	0	0	0	0.004	78.2	38	50.5	77.2	7.29	0.0732	24	1	100	1
9/19/2012	4:00 PM	71.4	71.4	71.3	34	41.6	5	N	0.08	8	NNE	71.4	68.7	68.7	30.065	0	0	0	0.004	78.2	38	50.5	77.2	7.29	0.0732	23	1	100	1
9/19/2012	4:01 PM	71.3	71.4	71.3	35	42.2	5	E	0.08	7	NNW	71.3	68.6	68.6	30.064	0	0	0	0.004	78.2	38	50.5	77.2	7.29	0.0732	24	1	100	1
9/19/2012	4:02 PM	71.3	71.3	71.3	36	43	4	E	0.07	6	E	71.3	68.7	68.7	30.065	0	0	0	0.004	78.2	38	50.5	77.2	7.29	0.0732	23	1	100	1
9/19/2012	4:03 PM	71.3	71.3	71.3	36	43	5	E	0.08	8	ENE	71.3	68.7	68.7	30.066	0	0	0	0.004	78	38	50.3	76.9	7.29	0.0733	24	1	100	1
9/19/2012	4:04 PM	71.1	71.2	71.1	36	42.8	4	E	0.07	6	NE	71.1	68.4	68.4	30.068	0	0	0	0.004	78	38	50.3	76.9	7.29	0.0733	23	1	100	1
9/19/2012	4:05 PM	70.8	71	70.8	35	41.8	2	E	0.03	5	NNE	70.8	67.9	67.9	30.066	0	0	0	0.004	78	38	50.3	76.9	7.29	0.0733	23	1	100	1
9/19/2012	4:06 PM	70.6	70.8	70.6	35	41.6	2	NE	0.03	3	N	70.6	67.7	67.7	30.067	0	0	0	0.004	78	38	50.3	76.9	7.29	0.0733	24	1	100	1
9/19/2012	4:07 PM	70.5	70.6	70.5	37	43	2	NE	0.03	5	SW	70.5	67.7	67.7	30.067	0	0	0	0.004	77.9	38	50.2	76.9	7.29	0.0733	23	1	100	1
9/19/2012	4:08 PM	70.4	70.5	70.4	37	42.9	1	S	0.02	3	SSW	70.4	67.6	67.6	30.066	0	0	0	0.004	77.9	38	50.2	76.9	7.29	0.0733	23	1	100	1
9/19/2012	4:09 PM	70.3	70.3	70.3	36	42.1	3	E	0.05	5	E	70.3	67.4	67.4	30.065	0	0	0	0.004	77.9	38	50.2	76.9	7.29	0.0733	23	1	100	1
9/19/2012	4:10 PM	70.3	70.3	70.3	37	42.8	4	E	0.07	7	NW	70.3	67.5	67.5	30.066	0	0	0	0.004	77.7	38	50.1	76.7	7.3	0.0733	22	1	95.7	1
9/19/2012	4:11 PM	70.4	70.4	70.3	38	43.6	5	NNW	0.08	10	NNW	70.4	67.7	67.7	30.065	0	0	0	0.004	77.7	38	50.1	76.7	7.3	0.0733	24	1	100	1
9/19/2012	4:12 PM	70.6	70.6	70.4	38	43.7	4	NE	0.07	8	N	70.6	67.9	67.9	30.068	0	0	0	0.004	77.5	38	49.9	76.5	7.3	0.0734	22	1	95.7	1
9/19/2012	4:13 PM	70.8	70.8	70.7	37	43.2	5	E	0.08	8	NNW	70.8	68.1	68.1	30.07	0	0	0	0.004	77.5	38	49.9	76.5	7.3	0.0734	24	1	100	1
9/19/2012	4:14 PM	70.8	70.8	70.8	36	42.5	4	NNE	0.07	8	NNE	70.8	68	68	30.071	0	0	0	0.004	77.3	38	49.7	76.4	7.3	0.0734	22	1	95.7	1
9/19/2012	4:15 PM	70.8	70.8	70.8	36	42.5	2	ENE	0.03	5	WNW	70.8	68	68	30.071	0	0	0	0.004	77.3	38	49.7	76.4	7.3	0.0734	23	1	100	1
9/19/2012	4:16 PM	70.9	70.9	70.8	36	42.6	5	NW	0.08	7	NNW	70.9	68.2	68.2	30.071	0	0	0	0.004	77.2	38	49.6	76.3	7.31	0.0734	23	1	100	1
9/19/2012	4:17 PM	71	71	70.9	36	42.7	4	NNE	0.07	7	NNW	71	68.3	68.3	30.069	0	0	0	0.004	77.2	38	49.6	76.3	7.31	0.0734	22	1	95.7	1
9/19/2012	4:18 PM	71	71	70.9	36	42.7	2	NNE	0.03	5	NNE	71	68.3	68.3	30.07	0	0	0	0.004	77.2	39	50.3	76.3	7.51	0.0734	24	1	100	1
9/19/2012	4:19 PM	71	71	71	35	42	4	E	0.07	7	ENE	71	68.2	68.2	30.071	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	22	1	95.7	1
9/19/2012	4:20 PM	71	71	71	36	42.7	6	NNE	0.1	12	ENE	71	68.3	68.3	30.074	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	24	1	100	1
9/19/2012	4:21 PM	70.9	71	70.9	35	41.9	6	N	0.1	10	N	70.9	68.1	68.1	30.075	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	22	1	95.7	1
9/19/2012	4:22 PM	70.8	70.9	70.8	34	41	5	NE	0.08	9	N	70.8	67.8	67.8	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	23	1	100	1
9/19/2012	4:23 PM	70.8	70.8	70.8	35	41.8	4	ENE	0.07	7	ENE	70.8	67.9	67.9	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	24	1	100	1
9/19/2012	4:24 PM	70.9	70.9	70.8	35	41.9	6	E	0.1	9	NE	70.9	68.1	68.1	30.076	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23	1	100	1
9/19/2012	4:25 PM	70.9	70.9	70.9	35	41.9	3	E	0.05	7	ENE	70.9	68.1	68.1	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	24	1	100	1
9/19/2012	4:26 PM	70.8	70.9	70.8	35	41.8	5	ENE	0.08	8	ENE	70.8	67.9	67.9	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23

Meteorological Data
Equity IRM

9/19/2012	5:46 PM	69.9	69.9	69.8	38	43.1	3	ENE	0.05	6	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.4	43	47.7	69.5	8.19	0.0743	23	1	100	1
9/19/2012	5:47 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	8	NNE	69.9	67.1	67.1	30.095	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	24	1	100	1
9/19/2012	5:48 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	5	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:49 PM	69.9	69.9	69.9	39	43.8	6	NE	0.1	8	N	69.9	67.1	67.1	30.098	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:50 PM	69.8	69.9	69.8	38	43	5	ENE	0.08	8	NE	69.8	67	67	30.096	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	22	1	95.7	1
9/19/2012	5:51 PM	69.7	69.8	69.7	39	43.6	4	E	0.07	7	ENE	69.7	67	67	30.098	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	23	1	100	1
9/19/2012	5:52 PM	69.6	69.7	69.6	39	43.5	3	ENE	0.05	7	ENE	69.6	66.9	66.9	30.098	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:53 PM	69.6	69.7	69.6	39	43.5	4	ENE	0.07	7	ENE	69.6	66.9	66.9	30.097	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:54 PM	69.6	69.6	69.6	39	43.5	4	NNE	0.07	5	NE	69.6	66.9	66.9	30.099	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:55 PM	69.6	69.6	69.6	39	43.5	2	NNE	0.03	4	NNE	69.6	66.9	66.9	30.099	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	23	1	100	1
9/19/2012	5:56 PM	69.6	69.6	69.6	39	43.5	2	WNW	0.03	4	WNW	69.6	66.9	66.9	30.098	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	21	1	91.3	1
9/19/2012	5:57 PM	69.6	69.6	69.6	38	42.9	0	WSW	0	2	WSW	69.6	66.8	66.8	30.098	0	0	0	0.003	70.7	43	47.1	68.5	8.22	0.0745	23	1	100	1
9/19/2012	5:58 PM	69.7	69.7	69.6	39	43.6	1	WSW	0.02	2	WSW	69.7	67	67	30.101	0	0	0	0.003	70.6	43	47	68.4	8.23	0.0745	23	1	100	1
9/19/2012	5:59 PM	69.7	69.7	69.7	38	42.9	1	WSW	0.02	4	W	69.7	66.9	66.9	30.101	0	0	0	0.003	70.6	43	47	68.4	8.23	0.0745	23	1	100	1
9/19/2012	6:00 PM	69.8	69.8	69.7	39	43.7	1	W	0.02	2	W	69.8	67.1	67.1	30.102	0	0	0	0.003	70.4	44	47.4	68.2	8.34	0.0745	23	1	100	1
9/19/2012	6:01 PM	69.8	69.8	69.8	39	43.7	1	WSW	0.02	2	WSW	69.8	67.1	67.1	30.102	0	0	0	0.003	70.4	44	47.4	68.2	8.34	0.0745	23	1	100	1
9/19/2012	6:02 PM	69.9	69.9	69.8	39	43.8	3	ESE	0.05	4	SE	69.9	67.1	67.1	30.105	0	0	0	0.003	70.4	44	47.4	68.2	8.34	0.0745	23	1	100	1
9/19/2012	6:03 PM	69.9	69.9	69.9	39	43.8	3	N	0.05	6	N	69.9	67.1	67.1	30.103	0	0	0	0.003	70.2	44	47.3	68	8.35	0.0745	23	1	100	1
9/19/2012	6:04 PM	69.9	69.9	69.9	39	43.8	3	N	0.05	5	N	69.9	67.1	67.1	30.104	0	0	0	0.003	70.2	44	47.3	68	8.35	0.0745	24	1	100	1
9/19/2012	6:05 PM	69.9	69.9	69.9	39	43.8	0	N	0	1	N	69.9	67.1	67.1	30.105	0	0	0	0.003	70.2	44	47.3	68	8.35	0.0745	23	1	100	1
9/19/2012	6:06 PM	69.9	69.9	69.9	39	43.8	2	NE	0.03	4	NE	69.9	67.1	67.1	30.103	0	0	0	0.003	70.1	44	47.2	67.8	8.35	0.0746	23	1	100	1
9/19/2012	6:07 PM	69.9	69.9	69.9	39	43.8	2	ENE	0.03	4	ENE	69.9	67.1	67.1	30.105	0	0	0	0.003	70.1	44	47.2	67.8	8.35	0.0746	23	1	100	1
9/19/2012	6:08 PM	69.8	69.8	69.8	39	43.7	2	ENE	0.03	5	NNE	69.8	67.1	67.1	30.105	0	0	0	0.003	70.1	44	47.2	67.8	8.35	0.0746	23	1	100	1
9/19/2012	6:09 PM	69.8	69.8	69.8	39	43.7	3	NNE	0.05	7	NNE	69.8	67.1	67.1	30.104	0	0	0	0.003	69.9	44	47	67.6	8.35	0.0746	24	1	100	1
9/19/2012	6:10 PM	69.8	69.8	69.8	39	43.7	2	E	0.03	5	NNE	69.8	67.1	67.1	30.105	0	0	0	0.003	69.9	44	47	67.6	8.35	0.0746	23	1	100	1
9/19/2012	6:11 PM	69.8	69.8	69.7	39	43.7	4	N	0.07	8	NNW	69.8	67.1	67.1	30.103	0	0	0	0.003	69.9	44	47	67.6	8.35	0.0746	24	1	100	1
9/19/2012	6:12 PM	69.7	69.7	69.7	39	43.6	3	NNE	0.05	7	ENE	69.7	67	67	30.102	0	0	0	0.003	69.7	44	46.8	67.5	8.35	0.0746	23	1	100	1
9/19/2012	6:13 PM	69.7	69.7	69.7	39	43.6	4	N	0.07	6	NNW	69.7	67	67	30.103	0	0	0	0.003	69.7	44	46.8	67.5	8.35	0.0746	24	1	100	1
9/19/2012	6:14 PM	69.6	69.7	69.6	39	43.5	6	NNW	0.1	8	NNW	69.6	66.9	66.9	30.103	0	0	0	0.003	69.7	44	46.8	67.5	8.35	0.0746	23	1	100	1
9/19/2012	6:15 PM	69.6	69.6	69.6	39	43.5	3	N	0.05	4	NW	69.6	66.9	66.9	30.101	0	0	0	0.003	69.6	44	46.7	67.4	8.35	0.0746	23	1	100	1
9/19/2012	6:16 PM	69.5	69.6	69.5	39	43.4	2	NNE	0.03	4	NE	69.5	66.8	66.8	30.1	0	0	0	0.003	69.6	44	46.7	67.4	8.35	0.0746	24	1	100	1
9/19/2012	6:17 PM	69.5	69.6	69.5	39	43.4	1	NE	0.02	3	NE	69.5	66.8	66.8	30.1	0	0	0	0.003	69.6	44	46.7	67.4	8.35	0.0746	22	1	95.7	1
9/19/2012	6:18 PM	69.5	69.5	69.5	38	42.8	2	NE	0.03	6	N	69.5	66.8	66.8	30.1	0	0	0	0.003	69.4	44	46.5	67.3	8.35	0.0747	24	1	100	1
9/19/2012	6:19 PM	69.5	69.5	69.5	39	43.4	5	N	0.08	10	NNW	69.5	66.8	66.8	30.102	0	0	0	0.003	69.4	44	46.5	67.3	8.35	0.0747	23	1	100	1
9/19/2012	6:20 PM	69.4	69.5	69.4	39	43.4	2	E	0.03	5	NE	69.4	66.8	66.8	30.107	0	0	0	0.003	69.4	44	46.5	67.3	8.35	0.0747	23	1	100	1
9/19/2012	6:21 PM	69.4	69.4	69.4	40	44	2	E	0.03	3	E	69.4	66.9	66.9	30.107	0	0	0	0.003	69.2	44	46.4	67.1	8.35	0.0747	24	1	100	1
9/19/2012	6:22 PM	69.3	69.4	69.3	40	43.9	1	E	0.02	2	E	69.3	66.8	66.8	30.106	0	0	0	0.003	69.2	45	46.9	67.2	8.47	0.0747	22	1	95.7	1
9/19/2012	6:23 PM	69.3	69.3	69.3	40	43.9	3	E	0.05	6	N	69.3	66.8	66.8	30.105	0	0	0	0.003	69.2	45	46.9	67.2	8.47	0.0747	24	1	100	1
9/19/2012	6:24 PM	69.2	69.3	69.2	39	43.2	3	N	0.05	5	N	69.2	66.6	66.6	30.105	0	0	0	0.003	69	45	46.8	67.1	8.47	0.0747	23	1	100	1
9/19/2012	6:25 PM	69.2	69.2	69.2	40	43.8	2	N	0.03	4	N	69.2	66.7	66.7	30.104	0	0	0	0.003	69	45	46.8	67.1	8.47	0.0747	23	1	100	1
9/19/2012	6:26 PM	69.1	69.2	69.1	40	43.8	3	E	0.05	5	E	69.1	66.7	66.7	30.103	0	0	0	0.003	69	45	46.8	67.1	8.47	0.0747	23	1	100	1
9/19/2012	6:27 PM	69	69.1	69	41	44.3	0	E	0	1	E	69	66.7	66.7	30.103	0	0	0	0.003	68.9	45	46.7	67	8.47	0.0747	23	1	100	1
9/19/2012	6:28 PM	69	69	69	42	44.9	1	E	0.02	3	E	69	66.8	66.8	30.105	0	0	0	0.003	68.9	45	46.7	67	8.47	0.0747	22	1	95.7	1
9/19/2012	6:29 PM	68.9	69	68.9	41	44.2	3	N	0.05	6	N	68.9	66.6	66.6	30.107	0	0	0	0.003	68.7	45	46.5	66.8	8.48	0.0748	23	1	100	1
9/19/2012	6:30 PM	68.8	68.9	68.8	40	43.5	2	ENE	0.03	4	N	68.8	66.4	66.4	30.109	0	0	0	0.003	68.7	45	46.5	66.8	8.48	0.0748	24	1	100	1
9/19/2012	6:31 PM	68.8	68.8	68.8	40	43.5	3	NNE	0.05	6	N	68.8	66.4	66.4	30.109	0	0	0	0.003	68.7	45	46.5	66.8	8.48	0.0748	23	1	100	1
9/19/2012	6:32 PM	68.6	68.8	68.6	41	43.9	2	NE	0.03	3	NNE	68.6	66.3	66.3	30.109	0	0	0	0.002	68.5	45	46.3	66.6	8.48	0.0748	23	1	100	1
9/19/2012	6:33 PM	68.6	68.6	68.6	41	43.9	2	NE	0.03	5	E	68.6	66.3	66.3	30.107	0	0	0	0.002	68.5	45	46.3	66.6	8.48	0.0748	23	1	100	1
9/19/2012	6:34 PM	68.6	68.6	68.6	41	43.9	1	NE	0.02	3	NE	68.6	66.3	66.3	30.108	0	0	0	0.002	68.4	45	46.2	66.6	8.48	0.0748	23	1	100	1
9/19/2012	6:35 PM	68.6	68.6	68.6	40	43.3	2	ENE	0.03	5	N	68.6	66.2	66.2	30.108	0	0	0	0.002	68.4	45	46.2	66.6	8.48	0.0748	24	1	100	1
9/19/2012	6:36 PM	68.5	68.6	68.5	41	43.9	2	NNE	0.03	3	NNE	68.5	66.2	66.2	30.11	0	0	0	0.002	68.2	45	46	66.4	8.49	0.0749	23	1	100	1
9/19/2012	6:37 PM	68.5	68.6	68.5	41	43.9	2	N	0.03	5	N	68.5	66.2	66.2	30.109	0	0	0	0.002	68.2	46	46.6	66.5	8.65	0.0749	23	1	100	1
9/19/2012	6:38 PM	68.5	68.5	68.5	42	44.5	1	N	0.02	2	N	68.5	66.3	66.3	30.11	0	0	0	0.002	68.2	46	46.6	66.5	8.65	0.0749	24	1	100	1
9/19/2012	6:39 PM	68.5	68.5	68.4	43	45.1	0	N	0	1	N	68.5	66.4	66.4	30.11	0	0	0	0.002	68	46	46.4	66.3	8.65	0.0749	21	1	91.3	1
9/19/2012	6:40 PM	68.4	68.4	68.4	42	44.4	1	N	0.02	2	N	68.4	66.2	66.2	30.11	0	0	0	0.002	68	46	46.4	66.3	8.65	0.0749	23	1	100	1
9/19/2012	6:41 PM	68.3	68.4	68.3	41	43.7	1	N	0.02	2	N	68.3	66	66	30.11	0	0	0	0.002	67.9	46	46.3	66.2	8.65	0.0749	22	1	95.7	1
9/19/2012	6:42 PM	68.3	68.3	68.3	42	44.3	1	N	0.02	2	N	68.3	66.1	66.1	30.108	0	0	0	0.002	67.9	46	46.3	66.2	8.65	0.0749	23	1	100	1
9/19/2012	6:43 PM	68.2	68.3	68.2	43	44.8	3	NW	0.05	6	WNW	68.2	66.1	66.1	30.107	0	0	0	0.002	67.7	46	46.2	66	8.65	0.0749	22	1	95.7	1
9/19/2012	6:44 PM	68.1	68.2	68.1	41	43.5	4	NNE	0.07	7	NNW	68.1	65.8	65.8	30.106	0	0	0	0.002	67.7	46	46.2	66	8.65	0.0749	22	1	95.7	1
9/19/2012	6:45 PM	68	68.1	68	42	44	3	N	0.05	6	N	68	65.8	65.8	30.109	0	0	0	0.002	67.5	46	46	65.8	8.65	0.075	24	1	100	1
9/19/2012	6:46 PM	68	68	68	42	44	2	NE	0.03	2	NE	68	65.8	65.8	30.107	0	0	0	0.002	67.5	46	46	65.8	8.65	0.075	21	1	91.3	1
9/19/2012	6:47 PM	67.9	68	67.9	43	44.6	2	NE	0.03	3	NE	67.9	65.8	65.8	30.106	0	0	0	0.002	67.4	46	45.9	65.6	8.65	0.075	24	1	100	1
9/19/2012	6:48 PM	67.9	67.9	67.9	43	44.6	1	NE	0.02	3	NE	67.9	65.8	65.8	30.105	0	0	0	0.002	67.4	46	45.9	65.6	8.65	0.075	20	1	87	1
9/19/2012	6:49 PM	67.9	67.9	67.9	42	44	2	NE	0.03	3	NE	67.9	65.7	65.7	30.107	0	0	0	0.002	67.2	46	45.7	65.4	8.65	0.075	22	1	95.7	1
9/19/2012	6:50 PM	67.9	67.9	67.9	42	44	3	NNE	0.05	5	N	67.9	65.7	65.7	30.109	0	0	0	0.002	67.2	46	45.7	65.4	8.65	0.075	23	1	100	1
9/19/2012	6:51 PM	67.9	67.9	67.9	43	44.6	2	NNE	0.03	4	NNE	67.9	65.8	65.8	30.109	0	0	0	0.002	67	46	45.5	65.2	8.65	0.0751	22	1	95.7	1
9/19/2012	6:52 PM	67.9	67.9	67.9	43	44.6	1	NNE	0.02	3	NNE	67.9	65.8	65.8	30.108	0	0	0	0.002	67	46	45.5	65.2	8.65	0.0751	23	1	100	1
9/19/2012	6:53 PM	67.9	67.9	67.9	43	44.6	1	NNE	0.02	2	NNE	67.9	65.8	65.8	30.108	0	0	0	0.002	66.9	46	45.4	65.1	8.65	0.0751	22	1	95.7	1
9/19/2012	6:54 PM	67.8	67.9	67.8	43	44.5	1	NNE	0.02	2	NNE	67.8	65.7	65.7	30.109	0	0	0	0.002	66.9	46	45.4	65.1	8.65	0.0751	23	1	100	1
9/19/2012	6:55 PM	67.8	67.8	67.8	42	43.9	2	NNE	0.03	3	NNE	67.8	65.6	65.6	30.108	0	0	0	0.002	66.7	46	45.3	64.8	8.65	0.0751	23	1	100	1
9/19/2012	6:56 PM	67.8	67.8	67.8	43	44.5	1	NNE	0.02	2	NNE	67.8	65.7	65.7	30.109	0	0	0	0.002	66.7	46	45.3	64.8	8.65	0.0751	23	1	100	1
9/19/2012	6:57 PM	67.8	67.8	67.8	43	44.5	2	NE	0.03	4	NE	67.8	65.7	65.7	30.109	0	0	0	0.002	66.6	46	45.2	64.7	8.65	0.0751	23	1	100	1
9/19/2012	6:58 PM	67.8	67.8	67.8	43	44.5	1	NE	0.02	3	NE	67.8	65.7	65.7	30.109	0	0	0	0.002	66.6	46	45.2	64.7	8.65	0.0751	23	1	100	1
9/19/2012	6:59 PM	67.8	67.8	67.8	42	43.9	1	NE	0.02	3	NE	67.8	65.6	65.6	30.109	0	0	0	0.002	66.6	46	45.2	64.7	8.65	0.0751	23	1	100	1
9/19/2012	7:00 PM	67.8	67.8	67.8	42	43.9	2	NE	0.03	3	NE	67.8	65.6	65.6	30.112	0	0	0	0.002	66.4	47	45.5	64.6	8.82	0.0751	23	1	100	1
9/19/2012	7:01 PM	67.8	67.8	67.8	43	44.5	2	NE	0.03	3	NE	67.8	65.7	65.7	30.115	0	0	0	0.002	66.4	47	45.5	64.6	8.82	0.0752	22	1	95.7	1
9/19/2012	7:02 PM	67.8	67.8	67.8	43	44.5	2	NE	0.03	4	NNW	67.8	65.7	65.7	30.113	0	0	0	0.002	66.2	47	45.4	64.3	8.83	0.0752	23	1	100	1
9/19/2012	7:03 PM	67.7	67.8	67.7	43	44.4	2	NE	0.03	4	NE	67.7	65.6	65.6	30.115	0	0	0	0.002	66.2	47	45.4	64.3	8.83	0.0752	22	1	95.7	1
9/19/2012	7:04 PM	67.7	67.7	67.7	43	44.4	2	NE	0.03	3	NE	67.7	65.6	65.6	30.114	0	0	0	0.002	66.1	47	45.3	64.2	8.83	0.0752	24	1	100	1
9/19/2012	7:05 PM	67.7	67.7	67.7	43	44.4	2	NE	0.03	5	NNE	67.7	65.6	65.6	30.113	0	0	0	0.002	66.1	47	45.3	64.2	8.83	0.0752	22	1	95.7	1
9/19/2012	7:06 PM	67.7	67.7	67.7	43	44.4	2	NNE	0.03	3	NNE	67.7	65.6	65.6	30.118	0	0	0	0.002	65.9	47	45.1	64	8.83	0.0752	24	1	100	1
9/19/2012	7:07 PM	67.6	67.7	67.6	43	44.3	1	NNE	0.02	2	NNE	67.6	65.5	65.5	30.116	0	0	0	0.002	65.9	47	45.1	64	8.83	0.0752	22	1	95.7	1
9/19/2012	7:08 PM	67.6	67.7	67.6	43	44.3	1	NNE	0.02	2	NNE	67.6	65.5	65.5	30.117	0	0	0	0.002	65.9	47	45.1	64	8.83	0.0752	23	1	100	1
9/19/2012	7:09 PM	67.5	67.6	67.5	43	44.2	2	NNE	0.03	4	NNE	67.5	65.4	65.4	30.117	0	0	0	0.002	65.8	47	45	63.9	8.83	0.0753	24	1	100	1
9/19/2012	7:10 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	4	NNE	67.5	65.4	65.4	30.118	0	0	0	0.002	65.8	47	45	63.9	8.83	0.0753	22	1	95.7	1
9/19/2012	7:11 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	4	NNE	67.5	65.4	65.4	30.12	0	0	0	0.002	65.6	47	44.8	63.7	8.84	0.0753	24	1	100	1
9/19/2012	7:12 PM	67.5	67.5	67.5	43	44.2	2	NE	0.03	3	NNE	67.5	65.4	65.4	30.123	0	0	0	0.002	65.6	47	44.8	63.7	8.84	0.0753	22	1	95.7	1
9/19/2012	7:13 PM	67.5	67.5	67.5	43	44.2	3	NNE	0.05	5	NNE	67.5	65.4	65.4	30.123	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0753	23	1	100	1
9/19/2012	7:14 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	4	NNE	67.5	65.4	65.4	30.123	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0753	24	1	100	1
9/19/2012	7:15 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	3	NNE	67.5	65.4	65.4	30.124	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0753	23	1	100	1
9/19/2012	7:16 PM	67.5	67.5	67.5	43	44.2	3	NE	0.05	5	NE	67.5	65.4	65.4	30.126	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/19/2012	7:17 PM	67.4	67.5	67.4	43	44.1	1	NE	0.02	3	NE	67.4	65.3	65.3	30.126	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/19/2012	7:18 PM	67.4	67.5	67.4	43	44.1	2	NE	0.03	4	NE	67.4	65.3	65.3	30.123	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:19 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	6	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/19/2012	7:20 PM	67.4	67.4	67.4	43	44.1	5	E	0.08	8	E	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:21 PM	67.5	67.5	67.4	43	44.2	3	ENE	0.05	5	ENE	67.5	65.4	65.4	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:22 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	22	1	95.7	1
9/19/2012	7:23 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.123	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:24 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:25 PM	67.4	67.4	67.4	43	44.1	2	NE	0.03	4	ENE	67.4	65.3	65.3	30.122	0	0	0	0.002	64.8	48	44.6	62.9

Meteorological Data
Equity IRM

9/19/2012	8:46 PM	65.8	65.8	65.8	43	42.7	2	ENE	0.03	3	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:47 PM	65.8	65.8	65.8	43	42.7	3	ENE	0.05	7	ENE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:48 PM	65.8	65.9	65.8	44	43.3	3	NNE	0.05	4	NNE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:49 PM	65.8	65.9	65.8	44	43.3	2	NE	0.03	4	NE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:50 PM	65.8	65.8	65.8	44	43.3	3	NE	0.05	5	NNE	65.8	63.6	63.6	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:51 PM	65.7	65.8	65.7	44	43.2	4	ENE	0.07	5	NE	65.7	63.5	63.5	30.148	0	0	0	0	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:52 PM	65.8	65.8	65.7	43	42.7	3	NE	0.05	5	NNE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:53 PM	65.7	65.8	65.7	43	42.6	3	NE	0.05	9	N	65.7	63.4	63.4	30.147	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	23	1	100	1
9/19/2012	8:54 PM	65.8	65.8	65.7	43	42.7	3	NE	0.05	4	NNE	65.8	63.5	63.5	30.149	0	0	0	0.001	61.3	50	42.5	59.3	9.42	0.0761	22	1	95.7	1
9/19/2012	8:55 PM	65.8	65.8	65.7	43	42.7	2	NNE	0.03	5	N	65.8	63.5	63.5	30.15	0	0	0	0.001	61.3	50	42.5	59.3	9.42	0.0761	24	1	100	1
9/19/2012	8:56 PM	65.7	65.8	65.7	43	42.6	3	NNE	0.05	4	NNE	65.7	63.4	63.4	30.151	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	22	1	95.7	1
9/19/2012	8:57 PM	65.7	65.8	65.7	44	43.2	3	NNE	0.05	4	NE	65.7	63.5	63.5	30.152	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	24	1	100	1
9/19/2012	8:58 PM	65.7	65.8	65.7	44	43.2	2	ENE	0.03	4	ENE	65.7	63.5	63.5	30.152	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	22	1	95.7	1
9/19/2012	8:59 PM	65.7	65.7	65.7	44	43.2	2	ENE	0.03	5	N	65.7	63.5	63.5	30.151	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	23	1	100	1
9/19/2012	9:00 PM	65.7	65.7	65.7	44	43.2	2	NNE	0.03	4	NNE	65.7	63.5	63.5	30.152	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	24	1	100	1
9/19/2012	9:01 PM	65.7	65.7	65.7	44	43.2	3	NNE	0.05	4	NNE	65.7	63.5	63.5	30.152	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	22	1	95.7	1
9/19/2012	9:02 PM	65.6	65.7	65.6	44	43.1	3	NNE	0.05	7	N	65.6	63.4	63.4	30.152	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	24	1	100	1
9/19/2012	9:03 PM	65.6	65.6	65.6	44	43.1	3	E	0.05	6	NNE	65.6	63.4	63.4	30.153	0	0	0	0	61.1	50	42.3	59.1	9.43	0.0761	22	1	95.7	1
9/19/2012	9:04 PM	65.6	65.6	65.6	44	43.1	3	E	0.05	6	E	65.6	63.4	63.4	30.153	0	0	0	0	61	50	42.2	59	9.43	0.0761	22	1	95.7	1
9/19/2012	9:05 PM	65.6	65.6	65.6	44	43.1	4	NNE	0.07	7	NNE	65.6	63.4	63.4	30.153	0	0	0	0	61	50	42.2	59	9.43	0.0761	23	1	100	1
9/19/2012	9:06 PM	65.6	65.6	65.6	44	43.1	3	NNE	0.05	5	NNE	65.6	63.4	63.4	30.154	0	0	0	0	61	50	42.2	59	9.43	0.0761	23	1	100	1
9/19/2012	9:07 PM	65.5	65.5	65.5	44	43	2	NE	0.03	4	NE	65.5	63.3	63.3	30.153	0	0	0	0	61	51	42.7	59.1	9.63	0.0761	22	1	95.7	1
9/19/2012	9:08 PM	65.5	65.5	65.5	44	43	3	E	0.05	6	E	65.5	63.3	63.3	30.156	0	0	0	0	61	51	42.7	59.1	9.63	0.0761	22	1	95.7	1
9/19/2012	9:09 PM	65.6	65.6	65.5	44	43.1	2	ENE	0.03	5	NW	65.6	63.4	63.4	30.156	0	0	0	0	61	51	42.7	59.1	9.63	0.0761	23	1	100	1
9/19/2012	9:10 PM	65.5	65.6	65.5	44	43	4	NNW	0.07	7	NNW	65.5	63.3	63.3	30.157	0	0	0	0	61	51	42.7	59.1	9.63	0.0761	22	1	95.7	1
9/19/2012	9:11 PM	65.5	65.5	65.5	44	43	3	NE	0.05	6	N	65.5	63.3	63.3	30.157	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	23	1	100	1
9/19/2012	9:12 PM	65.5	65.5	65.5	45	43.6	3	NE	0.05	5	NE	65.5	63.3	63.3	30.157	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	23	1	100	1
9/19/2012	9:13 PM	65.5	65.5	65.5	45	43.6	3	ENE	0.05	5	NE	65.5	63.3	63.3	30.157	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	23	1	100	1
9/19/2012	9:14 PM	65.5	65.5	65.5	45	43.6	3	ENE	0.05	4	ENE	65.5	63.3	63.3	30.156	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	23	1	100	1
9/19/2012	9:15 PM	65.5	65.5	65.5	45	43.6	3	NNE	0.05	5	ENE	65.5	63.3	63.3	30.157	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	23	1	100	1
9/19/2012	9:16 PM	65.5	65.5	65.5	45	43.6	2	NE	0.03	3	NE	65.5	63.3	63.3	30.156	0	0	0	0	60.8	51	42.5	58.9	9.63	0.0762	22	1	95.7	1
9/19/2012	9:17 PM	65.5	65.5	65.5	45	43.6	2	NE	0.03	3	NE	65.5	63.3	63.3	30.155	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	24	1	100	1
9/19/2012	9:18 PM	65.5	65.5	65.5	45	43.6	2	ENE	0.03	4	NNE	65.5	63.3	63.3	30.156	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	21	1	91.3	1
9/19/2012	9:19 PM	65.5	65.5	65.4	45	43.6	2	ENE	0.03	5	ENE	65.5	63.3	63.3	30.155	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	24	1	100	1
9/19/2012	9:20 PM	65.5	65.5	65.4	45	43.6	2	ENE	0.03	5	N	65.5	63.3	63.3	30.154	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	21	1	91.3	1
9/19/2012	9:21 PM	65.4	65.4	65.4	45	43.5	1	NNE	0.02	2	NNE	65.4	63.2	63.2	30.154	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	24	1	100	1
9/19/2012	9:22 PM	65.4	65.5	65.4	45	43.5	3	ENE	0.05	5	ENE	65.4	63.2	63.2	30.154	0	0	0	0	60.7	51	42.5	58.8	9.64	0.0762	21	1	91.3	1
9/19/2012	9:23 PM	65.4	65.4	65.4	45	43.5	2	NNE	0.03	4	NE	65.4	63.2	63.2	30.155	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	23	1	100	1
9/19/2012	9:24 PM	65.4	65.4	65.4	45	43.5	2	NNE	0.03	3	NNE	65.4	63.2	63.2	30.157	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	23	1	100	1
9/19/2012	9:25 PM	65.4	65.4	65.4	45	43.5	2	ENE	0.03	4	ENE	65.4	63.2	63.2	30.157	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	21	1	91.3	1
9/19/2012	9:26 PM	65.3	65.4	65.3	45	43.4	2	ENE	0.03	3	ENE	65.3	63.1	63.1	30.158	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	24	1	100	1
9/19/2012	9:27 PM	65.3	65.4	65.3	45	43.4	3	NNE	0.05	5	NNE	65.3	63.1	63.1	30.158	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	21	1	91.3	1
9/19/2012	9:28 PM	65.3	65.3	65.3	45	43.4	3	NNE	0.05	5	ESE	65.3	63.1	63.1	30.158	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	23	1	100	1
9/19/2012	9:29 PM	65.3	65.3	65.3	45	43.4	3	ESE	0.05	4	ESE	65.3	63.1	63.1	30.158	0	0	0	0	60.5	51	42.3	58.6	9.64	0.0762	23	1	100	1
9/19/2012	9:30 PM	65.3	65.3	65.3	46	44	2	ESE	0.03	6	E	65.3	63.2	63.2	30.158	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0762	23	1	100	1
9/19/2012	9:31 PM	65.3	65.3	65.3	45	43.4	3	ENE	0.05	5	ENE	65.3	63.1	63.1	30.159	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0762	23	1	100	1
9/19/2012	9:32 PM	65.2	65.3	65.2	45	43.3	2	ENE	0.03	3	ENE	65.2	63	63	30.159	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0762	23	1	100	1
9/19/2012	9:33 PM	65.3	65.3	65.3	45	43.4	2	ENE	0.03	5	ENE	65.3	63.1	63.1	30.159	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0762	23	1	100	1
9/19/2012	9:34 PM	65.3	65.3	65.3	46	44	2	ENE	0.03	3	ENE	65.3	63.2	63.2	30.162	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0763	23	1	100	1
9/19/2012	9:35 PM	65.3	65.3	65.2	46	44	2	ENE	0.03	3	ENE	65.3	63.2	63.2	30.161	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0762	23	1	100	1
9/19/2012	9:36 PM	65.2	65.2	65.2	46	43.9	1	ENE	0.02	2	ENE	65.2	63.1	63.1	30.162	0	0	0	0	60.3	51	42.1	58.4	9.64	0.0763	23	1	100	1
9/19/2012	9:37 PM	65.2	65.2	65.2	47	44.5	2	ENE	0.03	3	ENE	65.2	63.2	63.2	30.164	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	23	1	100	1
9/19/2012	9:38 PM	65.1	65.2	65.1	46	43.8	1	ENE	0.02	2	ENE	65.1	63	63	30.164	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	23	1	100	1
9/19/2012	9:39 PM	65	65.1	65	47	44.3	1	ENE	0.02	2	ENE	65	63	63	30.164	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	23	1	100	1
9/19/2012	9:40 PM	65	65	65	47	44.3	1	ENE	0.02	3	ENE	65	63	63	30.163	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	22	1	95.7	1
9/19/2012	9:41 PM	65	65	64.9	47	44.3	1	ENE	0.02	2	ENE	65	63	63	30.164	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	24	1	100	1
9/19/2012	9:42 PM	64.9	64.9	64.9	47	44.2	1	ENE	0.02	2	ENE	64.9	62.9	62.9	30.164	0	0	0	0	60.2	51	42	58.3	9.65	0.0763	22	1	95.7	1
9/19/2012	9:43 PM	64.9	64.9	64.9	48	44.7	1	ENE	0.02	4	ENE	64.9	63	63	30.163	0	0	0	0	60	51	41.8	58.1	9.65	0.0763	24	1	100	1
9/19/2012	9:44 PM	64.8	64.8	64.8	47	44.1	1	ENE	0.02	2	ENE	64.8	62.8	62.8	30.162	0	0	0	0	60	51	41.8	58.1	9.65	0.0763	22	1	95.7	1
9/19/2012	9:45 PM	64.7	64.8	64.7	48	44.5	1	ENE	0.02	2	ENE	64.7	62.8	62.8	30.162	0	0	0	0	60	51	41.8	58.1	9.65	0.0763	24	1	100	1
9/19/2012	9:46 PM	64.7	64.7	64.7	48	44.5	3	NNE	0.05	4	NNE	64.7	62.8	62.8	30.161	0	0	0	0	60	51	41.8	58.1	9.65	0.0763	22	1	95.7	1
9/19/2012	9:47 PM	64.6	64.6	64.6	48	44.5	1	NNE	0.02	3	NNE	64.6	62.7	62.7	30.162	0	0	0	0	60	51	41.8	58.1	9.65	0.0763	23	1	100	1
9/19/2012	9:48 PM	64.6	64.6	64.6	48	44.5	2	NE	0.03	3	NE	64.6	62.7	62.7	30.164	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	24	1	100	1
9/19/2012	9:49 PM	64.6	64.6	64.6	48	44.5	3	NE	0.05	5	E	64.6	62.7	62.7	30.165	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	22	1	95.7	1
9/19/2012	9:50 PM	64.6	64.6	64.6	48	44.5	2	E	0.03	5	E	64.6	62.7	62.7	30.166	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	24	1	100	1
9/19/2012	9:51 PM	64.7	64.7	64.6	48	44.5	2	E	0.03	3	E	64.7	62.8	62.8	30.167	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	22	1	95.7	1
9/19/2012	9:52 PM	64.7	64.7	64.6	48	44.5	1	E	0.02	2	E	64.7	62.8	62.8	30.167	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	23	1	100	1
9/19/2012	9:53 PM	64.7	64.7	64.7	48	44.5	4	E	0.07	6	E	64.7	62.8	62.8	30.167	0	0	0	0	59.9	51	41.7	58	9.65	0.0763	23	1	100	1
9/19/2012	9:54 PM	64.7	64.7	64.7	48	44.5	2	E	0.03	5	E	64.7	62.8	62.8	30.166	0	0	0	0	59.7	51	41.5	57.8	9.65	0.0764	23	1	100	1
9/19/2012	9:55 PM	64.7	64.8	64.7	48	44.5	2	E	0.03	5	E	64.7	62.8	62.8	30.166	0	0	0	0	59.7	51	41.5	57.8	9.65	0.0764	24	1	100	1
9/19/2012	9:56 PM	64.8	64.8	64.7	48	44.6	2	E	0.03	5	E	64.8	62.9	62.9	30.169	0	0	0	0	59.7	51	41.5	57.8	9.65	0.0764	23	1	100	1
9/19/2012	9:57 PM	64.8	64.8	64.8	48	44.6	2	E	0.03	3	E	64.8	62.9	62.9	30.17	0	0	0	0	59.7	51	41.5	57.8	9.65	0.0764	23	1	100	1
9/19/2012	9:58 PM	64.8	64.8	64.8	48	44.6	2	E	0.03	5	E	64.8	62.9	62.9	30.171	0	0	0	0	59.7	51	41.5	57.8	9.65	0.0764	24	1	100	1
9/19/2012	9:59 PM	64.8	64.8	64.8	49	45.2	2	E	0.03	3	E	64.8	63	63	30.171	0	0	0	0	59.6	51	41.4	57.7	9.65	0.0764	23	1	100	1
9/19/2012	10:00 PM	64.8	64.8	64.8	49	45.2	4	ENE	0.07	7	ENE	64.8	63	63	30.173	0	0	0	0	59.6	51	41.4	57.7	9.65	0.0764	24	1	100	1
9/19/2012	10:01 PM	64.8	64.8	64.8	49	45.2	4	E	0.07	6	E	64.8	63	63	30.173	0	0	0	0	59.6	51	41.4	57.7	9.65	0.0764	23	1	100	1
9/19/2012	10:02 PM	64.8	64.8	64.8	49	45.2	2	E	0.03	5	E	64.8	63	63	30.174	0	0	0	0	59.6	51	41.4	57.7	9.65	0.0764	23	1	100	1
9/19/2012	10:03 PM	64.9	64.9	64.8	49	45.3	4	E	0.07	6	E	64.9	63.1	63.1	30.173	0	0	0	0	59.6	52	41.9	57.8	9.76	0.0764	23	1	100	1
9/19/2012	10:04 PM	64.9	64.9	64.8	49	45.3	4	E	0.07	7	E	64.9	63.1	63.1	30.175	0	0	0	0	59.6	52	41.9	57.8	9.76	0.0764	23	1	100	1
9/19/2012	10:05 PM	64.9	64.9	64.9	49	45.3	4	E	0.07	6	E	64.9	63.1	63.1	30.176	0	0	0	0	59.6	52	41.9	57.8	9.76	0.0764	24	1	100	1
9/19/2012	10:06 PM	64.9	64.9	64.9	50	45.8	4	ENE	0.07	7	ENE	64.9	63.2	63.2	30.175	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	23	1	100	1
9/19/2012	10:07 PM	64.9	64.9	64.9	50	45.8	3	E	0.05	6	E	64.9	63.2	63.2	30.176	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	24	1	100	1
9/19/2012	10:08 PM	64.9	64.9	64.9	50	45.8	2	E	0.03	3	E	64.9	63.2	63.2	30.176	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	23	1	100	1
9/19/2012	10:09 PM	64.8	64.9	64.8	50	45.7	1	E	0.02	2	E	64.8	63.1	63.1	30.176	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	23	1	100	1
9/19/2012	10:10 PM	64.8	64.9	64.8	50	45.7	1	E	0.02	3	E	64.8	63.1	63.1	30.175	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	23	1	100	1
9/19/2012	10:11 PM	64.7	64.8	64.7	51	46.1	2	E	0.03	5	E	64.7	63.1	63.1	30.176	0	0	0	0	59.4	52	41.8	57.6	9.76	0.0764	23	1	100	1
9/19/2012	10:12 PM	64.7	64.8	64.7	50	45.6	3	E	0.05	6	E	64.7	63	63	30.176	0	0	0	0	59.3	52	41.7	57.5	9.76	0.0764	23	1	100	1
9/19/2012	10:13 PM	64.7	64.7	64.7	51	46.1	2	E	0.03	3	E	64.7	63.1	63.1	30.172	0	0	0	0	59.3	52	41.7	57.5	9.76	0.0764	23	1	100	1
9/19/2012	10:14 PM	64.6	64.7	64.6	51	46.1	2	E	0.03	5	E	64.6	63	63	30.174	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:15 PM	64.6	64.6	64.6	51	46.1	1	E	0.02	3	E	64.6	63	63	30.172	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:16 PM	64.6	64.6	64.6	51	46.1	2	E	0.03	5	E	64.6	63	63	30.172	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	22	1	95.7	1
9/19/2012	10:17 PM	64.5	64.6	64.5	51	46	2	E	0.03	3	E	64.5	62.8	62.8	30.17	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:18 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:19 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:20 PM	64.5	64.5	64.4	52	46.5	1	ENE	0.02	2	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:21 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	4	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:22 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	3	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	24	1	100	1
9/19/2012	10:23 PM	64.4	64.5	64.4	52	46.4	3	ENE	0.05	5	E	64.4	62.8	62.8	30.172	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:24 PM	64.4	64.4	64.4	52	46.4	3	ENE	0.05	4	ENE	64.4	62.8	62.8	30.172	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:25 PM	64.4	64.4	64.4	52	46.4	2	ENE	0.03	4	ENE	64.4	62.8	62.8	30.171	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:26 PM	64.4	64.4	64.4	53	46.9	1	ENE	0.02	2	ENE	64.4	62.9	62.9	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:27 PM	64.4	64

Meteorological Data
Equity IRM

9/19/2012	11:46 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:47 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	3	E	62.6	61.3	61.3	30.184	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:48 PM	62.6	62.6	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:49 PM	62.6	62.6	62.6	57	47.1	4	E	0.07	6	E	62.6	61.3	61.3	30.183	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:50 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.183	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:51 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:52 PM	62.5	62.6	62.5	57	47.1	3	E	0.05	5	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:53 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	5	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:54 PM	62.5	62.5	62.5	57	47.1	3	E	0.05	5	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	22	1	95.7	1
9/19/2012	11:55 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	3	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:56 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	5	E	62.5	61.2	61.2	30.18	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:57 PM	62.4	62.5	62.4	57	47	3	E	0.05	5	E	62.4	61.1	61.1	30.18	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:58 PM	62.4	62.5	62.4	56	46.5	2	E	0.03	5	E	62.4	61	61	30.179	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:59 PM	62.4	62.4	62.4	56	46.5	2	E	0.03	5	E	62.4	61	61	30.179	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/20/2012	12:00 AM	62.4	62.4	62.4	56	46.5	4	E	0.07	6	E	62.4	61	61	30.178	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/20/2012	12:01 AM	62.3	62.4	62.3	56	46.4	2	E	0.03	3	E	62.3	60.9	60.9	30.178	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	20	1	87	1
9/20/2012	12:02 AM	62.3	62.3	62.3	56	46.4	3	E	0.05	5	E	62.3	60.9	60.9	30.178	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	24	1	100	1
9/20/2012	12:03 AM	62.3	62.3	62.3	56	46.4	3	E	0.05	5	E	62.3	60.9	60.9	30.177	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	21	1	91.3	1
9/20/2012	12:04 AM	62.3	62.3	62.3	56	46.4	1	E	0.02	3	E	62.3	60.9	60.9	30.179	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	24	1	100	1
9/20/2012	12:05 AM	62.3	62.3	62.3	56	46.4	2	E	0.03	3	E	62.3	60.9	60.9	30.181	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	22	1	95.7	1
9/20/2012	12:06 AM	62.3	62.3	62.3	56	46.4	2	E	0.03	3	E	62.3	60.9	60.9	30.182	0	0	0.002	0	57.1	54	40.6	55.4	10.15	0.0768	23	1	100	1
9/20/2012	12:07 AM	62.3	62.3	62.2	56	46.4	3	E	0.05	6	E	62.3	60.9	60.9	30.184	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	23	1	100	1
9/20/2012	12:08 AM	62.2	62.3	62.2	56	46.3	2	E	0.03	5	E	62.2	60.8	60.8	30.184	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	23	1	100	1
9/20/2012	12:09 AM	62.3	62.3	62.2	56	46.4	3	E	0.05	5	E	62.3	60.9	60.9	30.184	0	0	0.002	0	57.1	55	41.1	55.5	10.31	0.0768	24	1	100	1
9/20/2012	12:10 AM	62.3	62.3	62.2	56	46.4	3	E	0.05	5	E	62.3	60.9	60.9	30.184	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	23	1	100	1
9/20/2012	12:11 AM	62.2	62.2	62.2	56	46.3	3	E	0.05	5	E	62.2	60.8	60.8	30.183	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	23	1	100	1
9/20/2012	12:12 AM	62.2	62.3	62.2	55	45.8	3	E	0.05	6	E	62.2	60.7	60.7	30.181	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	24	1	100	1
9/20/2012	12:13 AM	62.3	62.3	62.2	55	45.9	3	E	0.05	5	E	62.3	60.8	60.8	30.182	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	23	1	100	1
9/20/2012	12:14 AM	62.3	62.3	62.2	55	45.9	4	E	0.07	6	E	62.3	60.8	60.8	30.18	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	24	1	100	1
9/20/2012	12:15 AM	62.2	62.3	62.2	55	45.8	3	E	0.05	6	E	62.2	60.7	60.7	30.179	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	23	1	100	1
9/20/2012	12:16 AM	62.2	62.3	62.2	55	45.8	3	E	0.05	5	E	62.2	60.7	60.7	30.18	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	24	1	100	1
9/20/2012	12:17 AM	62.2	62.2	62.2	55	45.8	2	E	0.03	3	E	62.2	60.7	60.7	30.179	0	0	0.002	0	57	55	41	55.4	10.31	0.0768	23	1	100	1
9/20/2012	12:18 AM	62.2	62.2	62.2	55	45.8	2	E	0.03	3	E	62.2	60.7	60.7	30.18	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0768	22	1	95.7	1
9/20/2012	12:19 AM	62.2	62.2	62.2	55	45.8	4	ENE	0.07	7	ENE	62.2	60.7	60.7	30.181	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	24	1	100	1
9/20/2012	12:20 AM	62.2	62.2	62.2	55	45.8	5	ENE	0.08	8	ENE	62.2	60.7	60.7	30.181	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	23	1	100	1
9/20/2012	12:21 AM	62.2	62.2	62.2	54	45.3	4	ENE	0.07	7	ENE	62.2	60.6	60.6	30.182	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	24	1	100	1
9/20/2012	12:22 AM	62.2	62.2	62.2	54	45.3	4	E	0.07	8	E	62.2	60.6	60.6	30.182	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	23	1	100	1
9/20/2012	12:23 AM	62.2	62.2	62.2	54	45.3	1	E	0.02	3	E	62.2	60.6	60.6	30.183	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	23	1	100	1
9/20/2012	12:24 AM	62.2	62.2	62.2	55	45.8	3	E	0.05	5	E	62.2	60.7	60.7	30.183	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	24	1	100	1
9/20/2012	12:25 AM	62.1	62.2	62.1	55	45.7	3	E	0.05	5	E	62.1	60.6	60.6	30.183	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	23	1	100	1
9/20/2012	12:26 AM	62.1	62.1	62.1	54	45.2	3	E	0.05	5	E	62.1	60.5	60.5	30.182	0	0	0.002	0	56.8	55	40.8	55.2	10.31	0.0769	24	1	100	1
9/20/2012	12:27 AM	62.1	62.1	62.1	54	45.2	3	E	0.05	6	E	62.1	60.5	60.5	30.181	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:28 AM	62.1	62.1	62.1	54	45.2	4	E	0.07	7	E	62.1	60.5	60.5	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:29 AM	62.1	62.1	62.1	54	45.2	3	E	0.05	6	E	62.1	60.5	60.5	30.181	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	24	1	100	1
9/20/2012	12:30 AM	62.1	62.1	62.1	54	45.2	5	E	0.08	7	E	62.1	60.5	60.5	30.183	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:31 AM	62.1	62.1	62.1	54	45.2	3	E	0.05	6	E	62.1	60.5	60.5	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	24	1	100	1
9/20/2012	12:32 AM	62.1	62.1	62.1	54	45.2	3	E	0.05	5	E	62.1	60.5	60.5	30.18	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:33 AM	62.1	62.1	62.1	54	45.2	4	ENE	0.07	7	ENE	62.1	60.5	60.5	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	24	1	100	1
9/20/2012	12:34 AM	62	62.1	62	54	45.2	2	ENE	0.03	4	ENE	62	60.4	60.4	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:35 AM	62	62	62	54	45.2	3	ENE	0.05	5	ENE	62	60.4	60.4	30.181	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:36 AM	62	62	62	54	45.2	4	E	0.07	7	E	62	60.4	60.4	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	24	1	100	1
9/20/2012	12:37 AM	62	62	62	54	45.2	6	E	0.1	8	ENE	62	60.4	60.4	30.182	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:38 AM	62	62	62	54	45.2	4	E	0.07	7	ENE	62	60.4	60.4	30.181	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	24	1	100	1
9/20/2012	12:39 AM	62	62	62	54	45.2	2	ENE	0.03	4	ENE	62	60.4	60.4	30.18	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:40 AM	62	62	62	54	45.2	3	ENE	0.05	4	ENE	62	60.4	60.4	30.18	0	0	0.002	0	56.7	55	40.7	55.1	10.32	0.0769	23	1	100	1
9/20/2012	12:41 AM	61.9	62	61.9	54	45.1	3	ENE	0.05	5	ENE	61.9	60.3	60.3	30.181	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	24	1	100	1
9/20/2012	12:42 AM	61.9	61.9	61.9	54	45.1	3	E	0.05	6	E	61.9	60.3	60.3	30.18	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:43 AM	61.8	61.9	61.8	54	45	3	ENE	0.05	5	ENE	61.8	60.2	60.2	30.181	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	24	1	100	1
9/20/2012	12:44 AM	61.8	61.8	61.8	54	45	3	ENE	0.05	5	ENE	61.8	60.2	60.2	30.181	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:45 AM	61.8	61.8	61.8	54	45	3	ENE	0.05	4	ENE	61.8	60.2	60.2	30.182	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	24	1	100	1
9/20/2012	12:46 AM	61.7	61.8	61.7	54	44.9	3	ENE	0.05	5	ENE	61.7	60.1	60.1	30.183	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	22	1	95.7	1
9/20/2012	12:47 AM	61.7	61.7	61.7	54	44.9	3	ENE	0.05	5	ENE	61.7	60.1	60.1	30.184	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:48 AM	61.7	61.7	61.7	54	44.9	2	ENE	0.03	3	ENE	61.7	60.1	60.1	30.184	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:49 AM	61.6	61.7	61.6	54	44.8	3	ENE	0.05	4	ENE	61.6	60	60	30.183	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:50 AM	61.6	61.7	61.6	54	44.8	2	ENE	0.03	3	ENE	61.6	60	60	30.184	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:51 AM	61.6	61.6	61.6	54	44.8	3	E	0.05	5	E	61.6	60	60	30.182	0	0	0.002	0	56.5	55	40.5	54.9	10.32	0.0769	23	1	100	1
9/20/2012	12:52 AM	61.6	61.6	61.6	54	44.8	3	E	0.05	5	E	61.6	60	60	30.183	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	22	1	95.7	1
9/20/2012	12:53 AM	61.6	61.6	61.6	54	44.8	4	E	0.07	6	E	61.6	60	60	30.181	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	22	1	95.7	1
9/20/2012	12:54 AM	61.6	61.6	61.6	53	44.3	3	ENE	0.05	7	ENE	61.6	59.9	59.9	30.18	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	12:55 AM	61.6	61.6	61.5	53	44.3	2	ENE	0.03	3	ENE	61.6	59.9	59.9	30.179	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	12:56 AM	61.5	61.6	61.5	53	44.2	2	ENE	0.03	4	ENE	61.5	59.8	59.8	30.179	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	22	1	95.7	1
9/20/2012	12:57 AM	61.5	61.5	61.5	53	44.2	4	ENE	0.07	9	ESE	61.5	59.8	59.8	30.179	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	12:58 AM	61.5	61.5	61.5	53	44.2	3	ENE	0.05	9	E	61.5	59.8	59.8	30.181	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	12:59 AM	61.5	61.5	61.5	53	44.2	2	ENE	0.03	3	ENE	61.5	59.8	59.8	30.181	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	22	1	95.7	1
9/20/2012	1:00 AM	61.5	61.5	61.5	53	44.2	2	ENE	0.03	4	ENE	61.5	59.8	59.8	30.179	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	1:01 AM	61.5	61.5	61.4	53	44.2	3	ENE	0.05	7	ENE	61.5	59.8	59.8	30.181	0	0	0.002	0	56.4	55	40.4	54.8	10.32	0.0769	23	1	100	1
9/20/2012	1:02 AM	61.4	61.5	61.4	54	44.6	2	ENE	0.03	3	ENE	61.4	59.8	59.8	30.179	0	0	0.002	0	56.3	55	40.3	54.7	10.32	0.0769	24	1	100	1
9/20/2012	1:03 AM	61.4	61.4	61.4	53	44.1	2	ENE	0.03	3	ENE	61.4	59.7	59.7	30.179	0	0	0.002	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:04 AM	61.4	61.4	61.4	53	44.1	3	ENE	0.05	4	ENE	61.4	59.7	59.7	30.179	0	0	0.002	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:05 AM	61.4	61.4	61.3	53	44.1	2	ENE	0.03	4	ENE	61.4	59.7	59.7	30.178	0	0	0.002	0	56.3	55	40.3	54.7	10.32	0.0769	24	1	100	1
9/20/2012	1:06 AM	61.3	61.3	61.3	53	44	2	ENE	0.03	4	ENE	61.3	59.6	59.6	30.176	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:07 AM	61.3	61.3	61.3	53	44	2	ENE	0.03	3	ENE	61.3	59.6	59.6	30.177	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	24	1	100	1
9/20/2012	1:08 AM	61.2	61.3	61.2	53	43.9	2	ENE	0.03	3	ENE	61.2	59.5	59.5	30.178	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:09 AM	61.3	61.3	61.2	53	44	2	ENE	0.03	5	E	61.3	59.6	59.6	30.177	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	24	1	100	1
9/20/2012	1:10 AM	61.2	61.3	61.2	53	43.9	3	E	0.05	5	E	61.2	59.5	59.5	30.178	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:11 AM	61.2	61.3	61.2	53	43.9	2	E	0.03	5	E	61.2	59.5	59.5	30.179	0	0	0.003	0	56.3	55	40.3	54.7	10.32	0.0769	23	1	100	1
9/20/2012	1:12 AM	61.2	61.2	61.2	54	44.4	1	E	0.02	2	E	61.2	59.5	59.5	30.179	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:13 AM	61.2	61.2	61.2	53	43.9	2	E	0.03	5	E	61.2	59.5	59.5	30.179	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:14 AM	61.2	61.2	61.2	54	44.4	2	E	0.03	3	E	61.2	59.5	59.5	30.18	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:15 AM	61.2	61.2	61.2	54	44.4	2	E	0.03	5	E	61.2	59.5	59.5	30.18	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:16 AM	61.2	61.2	61.1	54	44.4	2	E	0.03	5	E	61.2	59.5	59.5	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:17 AM	61.1	61.2	61.1	54	44.3	2	E	0.03	6	E	61.1	59.4	59.4	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:18 AM	61.1	61.2	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.179	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:19 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:20 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.18	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:21 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:22 AM	61.1	61.1	61.1	54	44.3	1	E	0.02	2	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:23 AM	61.1	61.1	61.1	55	44.8	1	E	0.02	2	E	61.1	59.5	59.5	30.182	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:24 AM	61.1	61.1	61	55	44.8	1	E	0.02	3	E	61.1	59.5	59.5	30.178	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:25 AM	61	61	61	55	44.7	2	E	0.03	3	E	61	59.4	59.4	30.179	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:26 AM	61	61	61	54	44.2	4	E	0.07	6	E	61	59.3	59.3	30.18	0	0	0.003	0	56	55	40.1	54.4

Meteorological Data
Equity IRM

9/20/2012	2:46 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	3	ENE	59.7	58.3	58.3	30.185	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:47 AM	59.7	59.7	59.6	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:48 AM	59.6	59.7	59.6	58	44.8	1	ENE	0.02	2	ENE	59.6	58.2	58.2	30.184	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:49 AM	59.6	59.6	59.6	58	44.8	1	ENE	0.02	3	ENE	59.6	58.2	58.2	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:50 AM	59.5	59.6	59.5	59	45.2	0	ENE	0	1	ENE	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:51 AM	59.5	59.6	59.5	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:52 AM	59.4	59.5	59.4	60	45.5	0	ENE	0	1	ENE	59.4	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:53 AM	59.3	59.4	59.3	60	45.4	1	ENE	0.02	2	ENE	59.3	58	58	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:54 AM	59.2	59.3	59.2	60	45.3	1	ENE	0.02	3	ENE	59.2	57.9	57.9	30.182	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	23	1	100	1
9/20/2012	2:55 AM	59.1	59.2	59.1	60	45.2	2	ENE	0.03	3	ENE	59.1	57.8	57.8	30.182	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	24	1	100	1
9/20/2012	2:56 AM	59.1	59.1	59.1	60	45.2	2	ENE	0.03	4	ENE	59.1	57.8	57.8	30.183	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	23	1	100	1
9/20/2012	2:57 AM	59.1	59.1	59.1	61	45.7	0	ENE	0	1	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0773	22	1	95.7	1
9/20/2012	2:58 AM	59	59.1	59	61	45.6	0	---	0	0	---	59	57.8	57.8	30.185	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0774	24	1	100	1
9/20/2012	2:59 AM	59	59	59	61	45.6	0	ENE	0	2	ENE	59	57.8	57.8	30.186	0	0	0.004	0	53.9	56	38.6	52.5	10.43	0.0774	23	1	100	1
9/20/2012	3:00 AM	58.9	59	58.9	61	45.5	1	ENE	0.02	2	ENE	58.9	57.7	57.7	30.187	0	0	0.004	0	53.7	56	38.4	52.3	10.42	0.0774	24	1	100	1
9/20/2012	3:01 AM	58.9	58.9	58.9	61	45.5	0	ENE	0	1	ENE	58.9	57.7	57.7	30.186	0	0	0.004	0	53.7	56	38.4	52.3	10.42	0.0774	23	1	100	1
9/20/2012	3:02 AM	58.9	58.9	58.9	61	45.5	0	ENE	0	1	ENE	58.9	57.7	57.7	30.187	0	0	0.004	0	53.7	56	38.4	52.3	10.42	0.0774	23	1	100	1
9/20/2012	3:03 AM	58.9	58.9	58.9	61	45.5	1	ENE	0.02	2	ENE	58.9	57.7	57.7	30.188	0	0	0.004	0	53.7	56	38.4	52.3	10.42	0.0774	24	1	100	1
9/20/2012	3:04 AM	58.8	58.8	58.8	61	45.4	1	ENE	0.02	2	ENE	58.8	57.6	57.6	30.189	0	0	0.004	0	53.7	56	38.4	52.3	10.42	0.0774	23	1	100	1
9/20/2012	3:05 AM	58.8	58.8	58.8	60	44.9	1	ENE	0.02	2	ENE	58.8	57.5	57.5	30.189	0	0	0.004	0	53.6	56	38.3	52.2	10.42	0.0774	24	1	100	1
9/20/2012	3:06 AM	58.8	58.8	58.8	61	45.4	1	ENE	0.02	3	ENE	58.8	57.6	57.6	30.188	0	0	0.004	0	53.6	56	38.3	52.2	10.42	0.0774	23	1	100	1
9/20/2012	3:07 AM	58.8	58.8	58.8	61	45.4	1	ENE	0.02	2	ENE	58.8	57.6	57.6	30.187	0	0	0.004	0	53.6	56	38.3	52.2	10.42	0.0774	23	1	100	1
9/20/2012	3:08 AM	58.8	58.8	58.8	60	44.9	2	ENE	0.03	3	ENE	58.8	57.5	57.5	30.189	0	0	0.004	0	53.6	56	38.3	52.2	10.42	0.0774	24	1	100	1
9/20/2012	3:09 AM	58.9	58.9	58.8	61	45.5	1	ENE	0.02	2	ENE	58.9	57.7	57.7	30.186	0	0	0.004	0	53.4	56	38.1	52.1	10.42	0.0774	23	1	100	1
9/20/2012	3:10 AM	58.9	58.9	58.9	61	45.5	1	ENE	0.02	3	ENE	58.9	57.7	57.7	30.186	0	0	0.004	0	53.4	56	38.1	52.1	10.42	0.0774	24	1	100	1
9/20/2012	3:11 AM	59	59	58.9	61	45.6	2	ENE	0.03	4	ENE	59	57.8	57.8	30.187	0	0	0.004	0	53.4	56	38.1	52.1	10.42	0.0774	23	1	100	1
9/20/2012	3:12 AM	59	59	59	61	45.6	2	ENE	0.03	3	ENE	59	57.8	57.8	30.187	0	0	0.004	0	53.4	56	38.1	52.1	10.42	0.0774	24	1	100	1
9/20/2012	3:13 AM	59.1	59.1	59	61	45.7	2	ENE	0.03	3	ENE	59.1	57.9	57.9	30.188	0	0	0.004	0	53.4	56	38.1	52.1	10.42	0.0774	23	1	100	1
9/20/2012	3:14 AM	59.1	59.1	59.1	60	45.2	1	ENE	0.02	3	ENE	59.1	57.8	57.8	30.19	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	23	1	100	1
9/20/2012	3:15 AM	59.2	59.2	59.1	60	45.3	1	ENE	0.02	2	ENE	59.2	57.9	57.9	30.189	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	24	1	100	1
9/20/2012	3:16 AM	59.2	59.2	59.1	60	45.3	1	ENE	0.02	3	ENE	59.2	57.9	57.9	30.187	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	23	1	100	1
9/20/2012	3:17 AM	59.2	59.2	59.2	61	45.8	2	ENE	0.03	2	ENE	59.2	58	58	30.186	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	24	1	100	1
9/20/2012	3:18 AM	59.2	59.2	59.1	61	45.8	1	ENE	0.02	2	ENE	59.2	58	58	30.185	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	23	1	100	1
9/20/2012	3:19 AM	59.1	59.2	59.1	61	45.7	1	ENE	0.02	2	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.3	56	38	52	10.42	0.0775	23	1	100	1
9/20/2012	3:20 AM	59.1	59.1	59.1	61	45.7	2	ENE	0.03	3	ENE	59.1	57.9	57.9	30.183	0	0	0.004	0	53.3	56	38	52	10.42	0.0774	24	1	100	1
9/20/2012	3:21 AM	59.1	59.1	59.1	61	45.7	2	ENE	0.03	3	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:22 AM	59.1	59.1	59.1	61	45.7	2	ENE	0.03	3	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	24	1	100	1
9/20/2012	3:23 AM	59.1	59.1	59.1	61	45.7	0	ENE	0	2	ENE	59.1	57.9	57.9	30.183	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:24 AM	59.1	59.1	59.1	61	45.7	1	ENE	0.02	1	ENE	59.1	57.9	57.9	30.184	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	24	1	100	1
9/20/2012	3:25 AM	59	59.1	59	62	46	0	ENE	0	1	ENE	59	57.8	57.8	30.184	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:26 AM	59	59	59	61	45.6	1	ENE	0.02	2	ENE	59	57.8	57.8	30.183	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:27 AM	58.9	59	58.9	62	45.9	0	ENE	0	2	ENE	58.9	57.7	57.7	30.185	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:28 AM	58.9	58.9	58.9	62	45.9	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.186	0	0	0.004	0	53.1	56	37.8	51.8	10.41	0.0775	23	1	100	1
9/20/2012	3:29 AM	58.8	58.9	58.8	61	45.4	1	ENE	0.02	3	ENE	58.8	57.6	57.6	30.186	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	23	1	100	1
9/20/2012	3:30 AM	58.7	58.8	58.7	62	45.7	2	ENE	0.03	3	ENE	58.7	57.5	57.5	30.186	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	22	1	95.7	1
9/20/2012	3:31 AM	58.7	58.8	58.7	61	45.3	2	ENE	0.03	3	ENE	58.7	57.5	57.5	30.186	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	22	1	95.7	1
9/20/2012	3:32 AM	58.8	58.8	58.8	61	45.4	1	ENE	0.02	3	ENE	58.8	57.6	57.6	30.187	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	24	1	100	1
9/20/2012	3:33 AM	58.8	58.8	58.8	62	45.8	1	ENE	0.02	3	ENE	58.8	57.6	57.6	30.188	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	22	1	95.7	1
9/20/2012	3:34 AM	58.8	58.8	58.8	62	45.8	1	ENE	0.02	2	ENE	58.8	57.6	57.6	30.187	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	24	1	100	1
9/20/2012	3:35 AM	58.7	58.8	58.7	62	45.7	0	ENE	0	2	ENE	58.7	57.5	57.5	30.188	0	0	0.004	0	53	56	37.7	51.7	10.41	0.0775	22	1	95.7	1
9/20/2012	3:36 AM	58.7	58.8	58.7	62	45.7	0	ENE	0	1	ENE	58.7	57.5	57.5	30.187	0	0	0.004	0	53	57	38.2	51.7	10.61	0.0775	23	1	100	1
9/20/2012	3:37 AM	58.7	58.7	58.7	63	46.1	1	ENE	0.02	1	ENE	58.7	57.6	57.6	30.186	0	0	0.004	0	53	57	38.2	51.7	10.61	0.0775	23	1	100	1
9/20/2012	3:38 AM	58.6	58.6	58.6	63	46	0	---	0	0	---	58.6	57.5	57.5	30.186	0	0	0.004	0	52.8	57	38	51.6	10.61	0.0775	22	1	95.7	1
9/20/2012	3:39 AM	58.5	58.6	58.5	63	45.9	0	ENE	0	1	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.8	57	38	51.6	10.61	0.0775	24	1	100	1
9/20/2012	3:40 AM	58.4	58.5	58.4	63	45.8	1	ENE	0.02	2	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.8	56	37.5	51.5	10.41	0.0775	22	1	95.7	1
9/20/2012	3:41 AM	58.3	58.4	58.3	63	45.8	0	ENE	0	1	ENE	58.3	57.2	57.2	30.184	0	0	0.005	0	52.8	56	37.5	51.5	10.41	0.0775	24	1	100	1
9/20/2012	3:42 AM	58.2	58.3	58.2	64	46.1	0	ENE	0	1	ENE	58.2	57.1	57.1	30.186	0	0	0.005	0	52.8	57	38	51.6	10.61	0.0775	23	1	100	1
9/20/2012	3:43 AM	58.2	58.2	58.2	64	46.1	1	ENE	0.02	2	ENE	58.2	57.1	57.1	30.183	0	0	0.005	0	52.8	56	37.5	51.5	10.41	0.0775	23	1	100	1
9/20/2012	3:44 AM	58.1	58.1	58.1	63	45.6	0	ENE	0	1	ENE	58.1	57	57	30.182	0	0	0.005	0	52.7	57	37.9	51.5	10.6	0.0775	24	1	100	1
9/20/2012	3:45 AM	58	58.1	58	64	45.9	1	ENE	0.02	2	ENE	58	56.9	56.9	30.183	0	0	0.005	0	52.7	56	37.4	51.4	10.4	0.0776	23	1	100	1
9/20/2012	3:46 AM	58	58	58	64	45.9	0	ENE	0	1	ENE	58	56.9	56.9	30.184	0	0	0.005	0	52.7	57	37.9	51.5	10.6	0.0775	24	1	100	1
9/20/2012	3:47 AM	58	58	58	64	45.9	0	ENE	0	2	ENE	58	56.9	56.9	30.184	0	0	0.005	0	52.7	57	37.9	51.5	10.6	0.0775	23	1	100	1
9/20/2012	3:48 AM	57.9	58	57.9	64	45.8	0	ENE	0	1	ENE	57.9	56.8	56.8	30.185	0	0	0.005	0	52.7	57	37.9	51.5	10.6	0.0775	24	1	100	1
9/20/2012	3:49 AM	57.9	57.9	57.9	64	45.8	0	ENE	0	1	ENE	57.9	56.8	56.8	30.183	0	0	0.005	0	52.7	57	37.9	51.5	10.6	0.0775	23	1	100	1
9/20/2012	3:50 AM	57.9	57.9	57.8	64	45.8	0	---	0	0	---	57.9	56.8	56.8	30.183	0	0	0.005	0	52.6	57	37.8	51.4	10.6	0.0776	23	1	100	1
9/20/2012	3:51 AM	57.8	57.8	57.8	65	46.1	0	ENE	0	1	ENE	57.8	56.8	56.8	30.181	0	0	0.005	0	52.6	57	37.8	51.4	10.6	0.0776	24	1	100	1
9/20/2012	3:52 AM	57.8	57.8	57.8	64	45.7	0	ENE	0	1	ENE	57.8	56.7	56.7	30.181	0	0	0.005	0	52.6	57	37.8	51.4	10.6	0.0776	23	1	100	1
9/20/2012	3:53 AM	57.7	57.8	57.7	64	45.6	1	ENE	0.02	2	ENE	57.7	56.6	56.6	30.181	0	0	0.005	0	52.6	57	37.8	51.4	10.6	0.0776	24	1	100	1
9/20/2012	3:54 AM	57.7	57.8	57.7	64	45.6	0	ENE	0	1	ENE	57.7	56.6	56.6	30.181	0	0	0.005	0	52.6	57	37.8	51.4	10.6	0.0776	23	1	100	1
9/20/2012	3:55 AM	57.7	57.8	57.7	64	45.6	1	ENE	0.02	4	ENE	57.7	56.6	56.6	30.183	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	3:56 AM	57.8	57.8	57.7	64	45.7	1	ENE	0.02	2	ENE	57.8	56.7	56.7	30.182	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	3:57 AM	57.8	57.8	57.7	64	45.7	1	ENE	0.02	2	ENE	57.8	56.7	56.7	30.182	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	3:58 AM	57.8	57.8	57.8	64	45.7	1	ENE	0.02	2	ENE	57.8	56.7	56.7	30.183	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	3:59 AM	57.9	57.9	57.8	64	45.8	1	ENE	0.02	3	ENE	57.9	56.8	56.8	30.183	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:00 AM	58	58	57.9	64	45.9	1	ENE	0.02	2	ENE	58	56.9	56.9	30.182	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:01 AM	58.1	58.1	58	64	46	1	ENE	0.02	2	ENE	58.1	57	57	30.182	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:02 AM	58.1	58.1	58.1	64	46	1	ENE	0.02	2	ENE	58.1	57	57	30.181	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:03 AM	58.2	58.2	58.1	63	45.7	2	ENE	0.03	3	ENE	58.2	57.1	57.1	30.181	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:04 AM	58.2	58.2	58.2	63	45.7	1	ENE	0.02	3	ENE	58.2	57.1	57.1	30.18	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:05 AM	58.3	58.3	58.2	63	45.8	3	ENE	0.05	5	ENE	58.3	57.2	57.2	30.181	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:06 AM	58.5	58.5	58.4	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.182	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:07 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.182	0	0	0.005	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:08 AM	58.6	58.6	58.6	63	46	2	ENE	0.03	3	ENE	58.6	57.5	57.5	30.18	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:09 AM	58.7	58.7	58.6	63	46.1	2	ENE	0.03	3	ENE	58.7	57.6	57.6	30.181	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:10 AM	58.7	58.7	58.7	62	45.7	3	ENE	0.05	5	ENE	58.7	57.5	57.5	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:11 AM	58.7	58.7	58.7	62	45.7	4	ENE	0.07	5	ENE	58.7	57.5	57.5	30.18	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:12 AM	58.8	58.8	58.7	62	45.8	3	E	0.05	5	ENE	58.8	57.6	57.6	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:13 AM	58.8	58.9	58.8	62	45.8	2	E	0.03	3	E	58.8	57.6	57.6	30.18	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:14 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	5	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:15 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	5	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:16 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	2	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:17 AM	58.8	58.9	58.8	62	45.8	3	E	0.05	6	E	58.8	57.6	57.6	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:18 AM	58.8	58.9	58.8	62	45.8	2	E	0.03	5	E	58.8	57.6	57.6	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:19 AM	58.9	58.9	58.9	61	45.5	4	E	0.07	8	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:20 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:21 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:22 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:23 AM	58.9	58.9	58.9	61	45.5	4	ENE	0.07	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:24 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:25 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1

Meteorological Data
Equity IRM

9/20/2012	5:46 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	2	ENE	58.3	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:47 AM	58.3	58.3	58.2	66	47	3	ENE	0.05	4	ENE	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:48 AM	58.2	58.2	58.2	66	46.9	2	ENE	0.03	4	ENE	58.2	57.2	57.2	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:49 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	6	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:50 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:51 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	5	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:52 AM	58.2	58.3	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:53 AM	58.3	58.3	58.2	66	47	3	E	0.05	5	E	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:54 AM	58.2	58.3	58.2	66	46.9	2	E	0.03	5	E	58.2	57.2	57.2	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:55 AM	58.2	58.3	58.2	66	46.9	3	E	0.05	5	ENE	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:56 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.187	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:57 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	5	E	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:58 AM	58.2	58.3	58.2	66	46.9	3	E	0.05	5	ENE	58.2	57.2	57.2	30.187	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:59 AM	58.2	58.2	58.2	66	46.9	3	ENE	0.05	7	ENE	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:00 AM	58.2	58.2	58.2	66	46.9	4	E	0.07	6	E	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:01 AM	58.2	58.2	58.2	67	47.3	4	E	0.07	5	E	58.2	57.3	57.3	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:02 AM	58.2	58.2	58.2	67	47.3	3	E	0.05	6	E	58.2	57.3	57.3	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:03 AM	58.2	58.2	58.2	67	47.3	3	E	0.05	5	E	58.2	57.3	57.3	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:04 AM	58.2	58.2	58.2	67	47.3	3	E	0.05	5	E	58.2	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:05 AM	58.3	58.3	58.2	67	47.4	2	E	0.03	3	E	58.3	57.4	57.4	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:06 AM	58.3	58.3	58.3	67	47.4	2	E	0.03	3	E	58.3	57.4	57.4	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:07 AM	58.2	58.2	58.2	67	47.3	2	E	0.03	3	E	58.2	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:08 AM	58.2	58.2	58.2	67	47.3	1	E	0.02	2	E	58.2	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:09 AM	58.2	58.2	58.2	68	47.7	1	E	0.02	2	E	58.2	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:10 AM	58.2	58.2	58.1	68	47.7	1	E	0.02	2	E	58.2	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:11 AM	58.1	58.2	58.1	68	47.6	1	E	0.02	2	E	58.1	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:12 AM	58.1	58.2	58.1	68	47.6	2	E	0.03	3	E	58.1	57.2	57.2	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:13 AM	58.1	58.1	58.1	68	47.6	2	E	0.03	5	E	58.1	57.2	57.2	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:14 AM	58.1	58.1	58.1	68	47.6	1	E	0.02	2	E	58.1	57.2	57.2	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:15 AM	58.1	58.1	58.1	68	47.6	1	E	0.02	3	E	58.1	57.2	57.2	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:16 AM	58.1	58.1	58.1	69	48	1	E	0.02	2	E	58.1	57.3	57.3	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	22	1	95.7	1
9/20/2012	6:17 AM	58.1	58.1	58.1	69	48	2	E	0.03	3	E	58.1	57.3	57.3	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:18 AM	58.1	58.1	58.1	69	48	2	E	0.03	3	E	58.1	57.3	57.3	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:19 AM	58.1	58.1	58.1	69	48	1	E	0.02	2	E	58.1	57.3	57.3	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:20 AM	58.1	58.1	58.1	69	48	1	E	0.02	1	E	58.1	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:21 AM	58.1	58.1	58.1	69	48	1	E	0.02	3	E	58.1	57.3	57.3	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:22 AM	58.1	58.1	58.1	69	48	2	E	0.03	2	E	58.1	57.3	57.3	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	6:23 AM	58.1	58.1	58.1	69	48	0	E	0	1	E	58.1	57.3	57.3	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:24 AM	58.1	58.1	58.1	69	48	0	E	0	1	E	58.1	57.3	57.3	30.195	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0777	23	1	100	1
9/20/2012	6:25 AM	58	58.1	58	70	48.3	2	E	0.03	5	E	58	57.2	57.2	30.194	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	6:26 AM	58	58.1	58	69	47.9	2	E	0.03	3	E	58	57.2	57.2	30.195	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0777	23	1	100	1
9/20/2012	6:27 AM	58	58	58	70	48.3	1	E	0.02	2	E	58	57.2	57.2	30.195	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0777	24	1	100	1
9/20/2012	6:28 AM	58	58	58	70	48.3	1	E	0.02	2	E	58	57.2	57.2	30.194	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:29 AM	58	58	58	70	48.3	1	E	0.02	2	E	58	57.2	57.2	30.195	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:30 AM	58	58	58	70	48.3	2	E	0.03	5	E	58	57.2	57.2	30.195	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	24	1	100	1
9/20/2012	6:31 AM	58	58	58	70	48.3	1	E	0.02	1	E	58	57.2	57.2	30.196	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:32 AM	58	58	58	70	48.3	1	E	0.02	1	E	58	57.2	57.2	30.195	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	24	1	100	1
9/20/2012	6:33 AM	58	58	58	70	48.3	1	E	0.02	2	E	58	57.2	57.2	30.196	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:34 AM	58	58	58	70	48.3	1	E	0.02	2	E	58	57.2	57.2	30.197	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:35 AM	57.9	58	57.9	70	48.2	1	E	0.02	2	E	57.9	57.1	57.1	30.197	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	24	1	100	1
9/20/2012	6:36 AM	57.9	58	57.9	70	48.2	1	E	0.02	3	E	57.9	57.1	57.1	30.198	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:37 AM	57.9	57.9	57.9	70	48.2	2	E	0.03	3	E	57.9	57.1	57.1	30.2	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	24	1	100	1
9/20/2012	6:38 AM	57.9	57.9	57.9	70	48.2	0	E	0	1	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:39 AM	57.9	57.9	57.9	70	48.2	0	E	0	1	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	6:40 AM	57.9	57.9	57.9	70	48.2	1	E	0.02	2	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52.1	56	36.9	50.9	10.39	0.0777	24	1	100	1
9/20/2012	6:41 AM	57.9	57.9	57.8	70	48.2	1	E	0.02	1	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:42 AM	57.8	57.9	57.8	70	48.1	1	E	0.02	2	E	57.8	57	57	30.199	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:43 AM	57.9	57.9	57.9	70	48.2	1	E	0.02	2	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	24	1	100	1
9/20/2012	6:44 AM	57.9	57.9	57.9	70	48.2	0	E	0	1	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	24	1	100	1
9/20/2012	6:45 AM	57.9	57.9	57.9	70	48.2	1	E	0.02	2	E	57.9	57.1	57.1	30.199	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	6:46 AM	57.9	57.9	57.9	70	48.2	1	E	0.02	2	E	57.9	57.1	57.1	30.198	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	6:47 AM	57.9	57.9	57.9	70	48.2	0	E	0	1	E	57.9	57.1	57.1	30.198	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:48 AM	57.9	57.9	57.9	70	48.2	0	E	0	1	E	57.9	57.1	57.1	30.198	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	6:49 AM	57.9	57.9	57.9	71	48.6	1	E	0.02	2	E	57.9	57.2	57.2	30.197	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	24	1	100	1
9/20/2012	6:50 AM	57.9	57.9	57.9	71	48.6	1	E	0.02	2	E	57.9	57.2	57.2	30.196	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:51 AM	57.9	57.9	57.9	71	48.6	1	E	0.02	1	E	57.9	57.2	57.2	30.197	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	6:52 AM	57.9	57.9	57.9	71	48.6	1	E	0.02	1	E	57.9	57.2	57.2	30.196	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	24	1	100	1
9/20/2012	6:53 AM	57.9	57.9	57.9	72	48.9	2	E	0.03	3	E	57.9	57.2	57.2	30.197	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:54 AM	57.9	57.9	57.9	72	48.9	1	E	0.02	2	E	57.9	57.2	57.2	30.197	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:55 AM	58	58	57.9	72	49	2	E	0.03	3	E	58	57.3	57.3	30.198	0	0	0.005	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	6:56 AM	58	58	57.9	72	49	2	E	0.03	3	E	58	57.3	57.3	30.196	0	0	0.005	0	51.8	56	36.6	50.7	10.39	0.0777	24	1	100	1
9/20/2012	6:57 AM	58.1	58.1	58	72	49.1	1	E	0.02	3	E	58.1	57.4	57.4	30.197	0	0	0.005	0	51.8	56	36.6	50.7	10.39	0.0777	22	1	95.7	1
9/20/2012	6:58 AM	58.2	58.2	58	72	49.2	4	E	0.07	7	E	58.2	57.5	57.5	30.197	0	0	0.005	0	51.8	56	36.6	50.7	10.39	0.0777	22	1	95.7	1
9/20/2012	6:59 AM	58.3	58.3	58.2	72	49.3	1	E	0.02	2	E	58.3	57.6	57.6	30.197	0	0	0.005	0	51.8	56	36.6	50.7	10.39	0.0777	22	1	95.7	1
9/20/2012	7:00 AM	58.4	58.4	58.3	72	49.4	2	E	0.03	5	E	58.4	57.7	57.7	30.198	0	0	0.005	0	51.8	56	36.6	50.7	10.39	0.0777	23	1	100	1
9/20/2012	7:01 AM	58.6	58.6	58.4	72	49.6	2	E	0.03	4	ENE	58.6	58	58	30.198	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	7:02 AM	58.7	58.7	58.6	72	49.7	3	ENE	0.05	5	ENE	58.7	58.1	58.1	30.199	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	7:03 AM	58.8	58.8	58.7	72	49.8	2	ENE	0.03	4	ENE	58.8	58.2	58.2	30.201	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	7:04 AM	58.9	58.9	58.8	71	49.5	2	ENE	0.03	3	ENE	58.9	58.2	58.2	30.201	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	7:05 AM	58.9	58.9	58.9	71	49.5	2	ENE	0.03	3	ENE	58.9	58.2	58.2	30.2	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	22	1	95.7	1
9/20/2012	7:06 AM	59	59	58.9	71	49.6	3	ENE	0.05	7	ENE	59	58.3	58.3	30.199	0	0	0.004	0	52	56	36.8	50.8	10.39	0.0777	23	1	100	1
9/20/2012	7:07 AM	59	59	59	71	49.6	2	ENE	0.03	3	ENE	59	58.3	58.3	30.2	0	0	0.004	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	7:08 AM	59	59	59	71	49.6	3	ENE	0.05	5	ENE	59	58.3	58.3	30.201	0	0	0.004	0	52.1	56	36.9	50.9	10.39	0.0777	23	1	100	1
9/20/2012	7:09 AM	59.1	59.1	59.1	71	49.7	4	ENE	0.07	7	ENE	59.1	58.4	58.4	30.201	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0777	23	1	100	1
9/20/2012	7:10 AM	59.2	59.2	59.1	71	49.8	3	E	0.05	6	E	59.2	58.6	58.6	30.201	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0776	22	1	95.7	1
9/20/2012	7:11 AM	59.3	59.3	59.2	71	49.9	3	E	0.05	6	E	59.3	58.7	58.7	30.203	0	0	0.004	0	52.4	61	39.3	51.4	11.3	0.0776	23	1	100	1
9/20/2012	7:12 AM	59.4	59.4	59.3	71	50	2	E	0.03	3	E	59.4	58.8	58.8	30.199	0	0	0.004	0	52.6	61	39.5	51.6	11.3	0.0776	23	1	100	1
9/20/2012	7:13 AM	59.5	59.5	59.4	71	50.1	2	E	0.03	3	E	59.5	58.9	58.9	30.199	0	0	0.004	0	52.8	66	41.7	52	12.41	0.0775	24	1	100	1
9/20/2012	7:14 AM	59.6	59.6	59.5	70	49.8	4	E	0.07	6	E	59.6	59	59	30.203	0	0	0.004	0	53.1	68	42.8	52.3	12.87	0.0774	23	1	100	1
9/20/2012	7:15 AM	59.6	59.6	59.6	70	49.8	4	E	0.07	7	E	59.6	59	59	30.201	0	0	0.004	0	53.4	67	42.7	52.6	12.69	0.0774	23	1	100	1
9/20/2012	7:16 AM	59.7	59.7	59.6	70	49.9	3	E	0.05	7	E	59.7	59.1	59.1	30.201	0	0	0.004	0	53.7	68	43.4	52.9	12.9	0.0773	24	1	100	1
9/20/2012	7:17 AM	59.7	59.7	59.7	70	49.9	3	E	0.05	7	E	59.7	59.1	59.1	30.202	0	0	0.004	0	54	69	44.1	53.2	13.21	0.0772	23	1	100	1
9/20/2012	7:18 AM	59.7	59.8	59.7	70	49.9	2	E	0.03	3	E	59.7	59.1	59.1	30.199	0	0	0.004	0	54.3	70	44.7	53.6	13.44	0.0772	24	1	100	1
9/20/2012	7:19 AM	59.8	59.8	59.8	70	50	2	E	0.03	3	E	59.8	59.2	59.2	30.199	0	0	0.004	0	54.6	69	44.6	53.8	13.23	0.0771	23	1	100	1
9/20/2012	7:20 AM	59.8	59.8	59.8	70	50	3	E	0.05	6	E	59.8	59.2	59.2	30.198	0	0	0.004	0	54.9	68	44.5	54	12.95	0.0771	23	1	100	1
9/20/2012	7:21 AM	59.9	59.9	59.8	70	50.1	2	E	0.03	6	E	59.9	59.3	59.3	30.198	0	0	0.004	0	55.2	67	44.4	54.3	12.74	0.077	23	1	100	1
9/20/2012	7:22 AM	59.9	59.9	59.9	70	50.1	3	E	0.05	5	E	59.9	59.3	59.3	30.197	0	0	0.004	0	55.5	67	44.7	54.6	12.73	0.077	23	1	100	1
9/20/2012	7:23 AM	59.9	59.9	59.9	70	50.1	2	E	0.03	5	E	59.9	59.3	59.3	30.202	0	0	0.004	0	55.8	69	45.8	55	13.2	0.0769	24	1	100	1
9/20/2012	7:24 AM	60	60	59.9	71	50.6	1	E	0.02	2	E	60	59.4	59.4	30.201	0	0	0.003	0	56.1	69	46.1	55.3	13.18	0.0769	22	1	95.7	1
9/20/2012	7:25 AM	60	60	60	71	50.6	2	E	0.03	3	E	60	59.4	59.4	30.201	0	0	0.003	0	56.4	69	46.4	55.6	13.17	0.0768	24	1	100	1
9/20/2012	7:26 AM	60	60	60	70	50.2	3	E	0.05	5	SE	60	59.4	59.4	30.2	0	0	0.003	0	56.8	69	46.7	56	13.14	0.0767	23	1	100	1
9/20/2012	7:27 AM	60	60	60	70	50.2	3	ESE	0.05	5	ESE	60	59.4	59.4	30.2	0	0	0.003	0	57.1

Meteorological Data
Equity IRM

9/20/2012	8:46 AM	61.3	61.4	61.3	69	51	1	E	0.02	3	E	61.3	60.7	60.7	30.202	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	21	1	91.3	1
9/20/2012	8:47 AM	61.3	61.3	61.3	69	51	3	E	0.05	6	E	61.3	60.7	60.7	30.203	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	24	1	100	1
9/20/2012	8:48 AM	61.3	61.3	61.3	69	51	3	E	0.05	3	E	61.3	60.7	60.7	30.205	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	22	1	95.7	1
9/20/2012	8:49 AM	61.2	61.3	61.2	69	50.9	2	E	0.03	3	E	61.2	60.6	60.6	30.203	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0741	23	1	100	1
9/20/2012	8:50 AM	61.3	61.3	61.3	69	51	4	E	0.07	5	E	61.3	60.7	60.7	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:51 AM	61.2	61.3	61.2	69	50.9	5	ENE	0.08	7	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:52 AM	61.2	61.3	61.2	69	50.9	4	ENE	0.07	5	E	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	50	53.4	72.6	9.25	0.0742	23	1	100	1
9/20/2012	8:53 AM	61.2	61.2	61.2	69	50.9	3	ENE	0.05	7	ENE	61.2	60.6	60.6	30.204	0	0	0.003	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	8:54 AM	61.1	61.2	61.1	69	50.8	4	ENE	0.07	7	ENE	61.1	60.5	60.5	30.205	0	0	0.003	0	73	52	54.3	72.7	9.59	0.0742	23	1	100	1
9/20/2012	8:55 AM	61.2	61.2	61.1	69	50.9	1	ENE	0.02	3	ENE	61.2	60.6	60.6	30.203	0	0	0.003	0	72.8	52	54.1	72.4	9.59	0.0742	22	1	95.7	1
9/20/2012	8:56 AM	61.2	61.2	61.2	70	51.3	2	ENE	0.03	3	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	8:57 AM	61.2	61.2	61.2	70	51.3	2	ENE	0.03	4	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	8:58 AM	61.2	61.2	61.2	70	51.3	1	ENE	0.02	3	ENE	61.2	60.6	60.6	30.205	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	8:59 AM	61.3	61.3	61.3	70	51.4	3	ENE	0.05	5	ENE	61.3	60.7	60.7	30.206	0	0	0.003	0	72.8	51	53.6	72.3	9.39	0.0742	23	1	100	1
9/20/2012	9:00 AM	61.3	61.3	61.3	70	51.4	3	ENE	0.05	4	ENE	61.3	60.7	60.7	30.206	0	0	0.003	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	9:01 AM	61.3	61.3	61.3	70	51.4	3	ENE	0.05	5	ENE	61.3	60.7	60.7	30.205	0	0	0.003	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	9:02 AM	61.4	61.4	61.3	70	51.5	3	ENE	0.05	4	ENE	61.4	60.8	60.8	30.207	0	0	0.002	0	73	51	53.8	72.6	9.39	0.0742	24	1	100	1
9/20/2012	9:03 AM	61.5	61.5	61.4	71	52	3	ENE	0.05	4	ENE	61.5	61	61	30.207	0	0	0.002	0	73	51	53.8	72.6	9.39	0.0742	22	1	95.7	1
9/20/2012	9:04 AM	61.6	61.6	61.5	71	52.1	4	ENE	0.07	7	ENE	61.6	61.1	61.1	30.209	0	0	0.002	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	9:05 AM	61.6	61.6	61.6	70	51.7	4	NE	0.07	5	NE	61.6	61.1	61.1	30.207	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	22	1	95.7	1
9/20/2012	9:06 AM	61.7	61.7	61.7	70	51.8	4	ENE	0.07	8	ENE	61.7	61.2	61.2	30.205	0	0	0.002	0	73.3	51	54.1	73	9.38	0.0741	24	1	100	1
9/20/2012	9:07 AM	61.7	61.7	61.7	70	51.8	4	E	0.07	6	E	61.7	61.2	61.2	30.207	0	0	0.002	0	73.3	51	54.1	73	9.38	0.0741	23	1	100	1
9/20/2012	9:08 AM	61.7	61.7	61.7	70	51.8	4	E	0.07	6	E	61.7	61.2	61.2	30.208	0	0	0.002	0	73.5	51	54.3	73.2	9.38	0.0741	23	1	100	1
9/20/2012	9:09 AM	61.7	61.7	61.7	70	51.8	5	E	0.08	7	E	61.7	61.2	61.2	30.208	0	0	0.002	0	73.5	51	54.3	73.2	9.38	0.0741	24	1	100	1
9/20/2012	9:10 AM	61.6	61.7	61.6	70	51.7	4	E	0.07	5	E	61.6	61.1	61.1	30.209	0	0	0.002	0	73.6	51	54.4	73.3	9.38	0.0741	23	1	100	1
9/20/2012	9:11 AM	61.6	61.6	61.6	70	51.7	4	ENE	0.07	8	ENE	61.6	61.1	61.1	30.205	0	0	0.002	0	73.6	51	54.4	73.3	9.38	0.0741	24	1	100	1
9/20/2012	9:12 AM	61.5	61.6	61.5	70	51.6	2	ENE	0.03	3	ENE	61.5	61	61	30.205	0	0	0.002	0	73.8	51	54.5	73.6	9.37	0.074	23	1	100	1
9/20/2012	9:13 AM	61.5	61.6	61.5	70	51.6	4	ENE	0.07	5	ENE	61.5	61	61	30.206	0	0	0.002	0	73.8	51	54.5	73.6	9.37	0.074	22	1	95.7	1
9/20/2012	9:14 AM	61.5	61.5	61.5	71	52	3	ENE	0.05	7	ENE	61.5	61	61	30.207	0	0	0.002	0	73.8	51	54.5	73.6	9.37	0.074	24	1	100	1
9/20/2012	9:15 AM	61.6	61.6	61.6	71	52.1	4	ENE	0.07	7	E	61.6	61.1	61.1	30.205	0	0	0.002	0	74	50	54.2	73.7	9.25	0.074	23	1	100	1
9/20/2012	9:16 AM	61.8	61.8	61.7	72	52.7	4	E	0.07	7	E	61.8	61.4	61.4	30.206	0	0	0.002	0	74	50	54.2	73.7	9.25	0.074	24	1	100	1
9/20/2012	9:17 AM	61.9	61.9	61.8	72	52.8	4	E	0.07	6	E	61.9	61.5	61.5	30.206	0	0	0.002	0	74	51	54.7	73.8	9.37	0.074	23	1	100	1
9/20/2012	9:18 AM	62	62	62	72	52.9	2	E	0.03	3	E	62	61.6	61.6	30.205	0	0	0.002	0	74.2	50	54.4	74	9.25	0.074	23	1	100	1
9/20/2012	9:19 AM	62.1	62.1	62	72	53	2	E	0.03	3	E	62.1	61.7	61.7	30.205	0	0	0.002	0	74.2	50	54.4	74	9.25	0.074	24	1	100	1
9/20/2012	9:20 AM	62.1	62.1	62.1	71	52.6	2	E	0.03	3	E	62.1	61.7	61.7	30.206	0	0	0.002	0	74.3	50	54.5	74.1	9.25	0.074	23	1	100	1
9/20/2012	9:21 AM	62.2	62.2	62.1	72	53.1	3	E	0.05	5	E	62.2	61.9	61.9	30.205	0	0	0.002	0	74.3	50	54.5	74.1	9.25	0.074	24	1	100	1
9/20/2012	9:22 AM	62.2	62.2	62.2	72	53.1	5	ENE	0.08	8	ENE	62.2	61.9	61.9	30.204	0	0	0.002	0	74.3	50	54.5	74.1	9.25	0.074	23	1	100	1
9/20/2012	9:23 AM	62.2	62.2	62.2	72	53.1	4	ENE	0.07	5	ENE	62.2	61.9	61.9	30.202	0	0	0.002	0	74.3	50	54.5	74.1	9.25	0.074	24	1	100	1
9/20/2012	9:24 AM	62.2	62.2	62.2	73	53.4	3	ENE	0.05	4	ENE	62.2	61.9	61.9	30.202	0	0	0.002	0	74.2	50	54.4	74	9.25	0.074	22	1	95.7	1
9/20/2012	9:25 AM	62.1	62.2	62.1	73	53.3	4	ENE	0.07	9	ENE	62.1	61.8	61.8	30.204	0	0	0.002	0	74	50	54.2	73.7	9.25	0.074	23	1	100	1
9/20/2012	9:26 AM	62.1	62.1	62.1	73	53.3	3	ENE	0.05	5	ENE	62.1	61.8	61.8	30.206	0	0	0.002	0	73.8	50	54	73.5	9.25	0.0741	24	1	100	1
9/20/2012	9:27 AM	62	62.1	62	73	53.2	3	ENE	0.05	5	ENE	62	61.7	61.7	30.206	0	0	0.002	0	73.6	50	53.8	73.2	9.25	0.0741	21	1	91.3	1
9/20/2012	9:28 AM	62	62	62	73	53.2	2	ENE	0.03	4	ENE	62	61.7	61.7	30.208	0	0	0.002	0	73.5	51	54.3	73.2	9.38	0.0741	24	1	100	1
9/20/2012	9:29 AM	62	62	61.9	74	53.6	3	ENE	0.05	5	ENE	62	61.7	61.7	30.206	0	0	0.002	0	73.3	51	54.1	73	9.38	0.0741	23	1	100	1
9/20/2012	9:30 AM	62	62	61.9	74	53.6	4	ENE	0.07	7	E	62	61.7	61.7	30.206	0	0	0.002	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	9:31 AM	61.9	62	61.9	74	53.5	5	ENE	0.08	8	ENE	61.9	61.6	61.6	30.206	0	0	0.002	0	72.8	51	53.6	72.3	9.39	0.0742	24	1	100	1
9/20/2012	9:32 AM	61.9	61.9	61.9	74	53.5	6	ENE	0.1	8	ENE	61.9	61.6	61.6	30.207	0	0	0.002	0	72.6	51	53.4	72	9.4	0.0742	23	1	100	1
9/20/2012	9:33 AM	62	62	61.9	74	53.6	4	ENE	0.07	7	ENE	62	61.7	61.7	30.206	0	0	0.002	0	72.4	52	53.8	71.8	9.6	0.0743	24	1	100	1
9/20/2012	9:34 AM	62	62	62	74	53.6	4	ENE	0.07	7	ENE	62	61.7	61.7	30.205	0	0	0.002	0	72.3	52	53.7	71.7	9.6	0.0743	23	1	100	1
9/20/2012	9:35 AM	62.1	62.1	62	74	53.7	5	E	0.08	10	ENE	62.1	61.9	61.9	30.205	0	0	0.002	0	72.3	52	53.7	71.7	9.6	0.0743	24	1	100	1
9/20/2012	9:36 AM	62.2	62.2	62.1	75	54.2	2	E	0.03	3	E	62.2	62	62	30.206	0	0	0.002	0	72.1	52	53.5	71.4	9.61	0.0743	23	1	100	1
9/20/2012	9:37 AM	62.5	62.5	62.3	74	54.1	3	E	0.05	5	E	62.5	62.3	62.3	30.207	0	0	0.002	0	72.3	52	53.7	71.7	9.6	0.0743	23	1	100	1
9/20/2012	9:38 AM	62.7	62.7	62.5	74	54.3	3	E	0.05	6	E	62.7	62.5	62.5	30.206	0	0	0.002	0	72.3	52	53.7	71.7	9.6	0.0743	24	1	100	1
9/20/2012	9:39 AM	62.9	62.9	62.7	73	54.1	4	E	0.07	7	E	62.9	62.7	62.7	30.208	0	0	0.001	0	72.4	52	53.8	71.8	9.6	0.0743	23	1	100	1
9/20/2012	9:40 AM	63	63	62.9	72	53.8	3	E	0.05	5	E	63	62.8	62.8	30.209	0	0	0.001	0	72.6	52	54	72.1	9.6	0.0742	23	1	100	1
9/20/2012	9:41 AM	63.1	63.1	63	73	54.3	3	E	0.05	5	E	63.1	62.9	62.9	30.207	0	0	0.001	0	73	52	54.3	72.7	9.59	0.0742	23	1	100	1
9/20/2012	9:42 AM	63.2	63.2	63.1	72	54	4	E	0.07	6	E	63.2	63	63	30.205	0	0	0.001	0	73.1	52	54.4	72.8	9.59	0.0741	22	1	95.7	1
9/20/2012	9:43 AM	63.3	63.3	63.2	72	54.1	4	ENE	0.07	8	E	63.3	63.1	63.1	30.207	0	0	0.001	0	73.5	52	54.8	73.3	9.58	0.0741	23	1	100	1
9/20/2012	9:44 AM	63.4	63.4	63.3	72	54.2	3	E	0.05	7	E	63.4	63.2	63.2	30.212	0	0	0.001	0	73.6	52	54.9	73.4	9.58	0.0741	22	1	95.7	1
9/20/2012	9:45 AM	63.4	63.4	63.4	72	54.2	2	E	0.03	5	E	63.4	63.2	63.2	30.209	0	0	0.001	0	74	52	55.3	73.9	9.57	0.074	24	1	100	1
9/20/2012	9:46 AM	63.4	63.4	63.4	71	53.8	3	E	0.05	5	E	63.4	63.2	63.2	30.208	0	0	0.001	0	74.2	51	54.9	74.1	9.37	0.074	22	1	95.7	1
9/20/2012	9:47 AM	63.4	63.4	63.4	72	54.2	4	E	0.07	7	ENE	63.4	63.2	63.2	30.208	0	0	0.001	0	74.3	51	55	74.2	9.36	0.074	23	1	100	1
9/20/2012	9:48 AM	63.2	63.4	63.2	72	54	3	ENE	0.05	5	ENE	63.2	63	63	30.206	0	0	0.001	0	74.3	51	55	74.2	9.36	0.0739	23	1	100	1
9/20/2012	9:49 AM	63.1	63.2	63.1	72	53.9	3	ENE	0.05	7	ENE	63.1	62.9	62.9	30.207	0	0	0.001	0	74.3	51	55	74.2	9.36	0.074	22	1	95.7	1
9/20/2012	9:50 AM	63.1	63.1	63	72	53.9	4	ENE	0.07	7	ENE	63.1	62.9	62.9	30.208	0	0	0.001	0	74.3	51	55	74.2	9.36	0.074	24	1	100	1
9/20/2012	9:51 AM	63	63.1	63	73	54.2	5	ESE	0.08	7	ENE	63	62.8	62.8	30.207	0	0	0.001	0	74.3	51	55	74.2	9.36	0.074	22	1	95.7	1
9/20/2012	9:52 AM	63.1	63.1	63	73	54.3	3	E	0.05	5	E	63.1	62.9	62.9	30.206	0	0	0.001	0	74.3	51	55	74.2	9.36	0.0739	24	1	100	1
9/20/2012	9:53 AM	63.1	63.1	63	73	54.3	4	E	0.07	8	E	63.1	62.9	62.9	30.206	0	0	0.001	0	74.3	51	55	74.2	9.36	0.0739	22	1	95.7	1
9/20/2012	9:54 AM	63.2	63.2	63.1	73	54.4	6	E	0.1	10	E	63.2	63.1	63.1	30.208	0	0	0.001	0	74.5	51	55.2	74.5	9.36	0.0739	23	1	100	1
9/20/2012	9:55 AM	63.2	63.2	63.2	73	54.4	4	E	0.07	8	E	63.2	63.1	63.1	30.207	0	0	0.001	0	74.7	51	55.4	74.8	9.36	0.0739	24	1	100	1
9/20/2012	9:56 AM	63.2	63.2	63.2	73	54.4	1	E	0.02	2	E	63.2	63.1	63.1	30.205	0	0	0.001	0	74.7	51	55.4	74.8	9.36	0.0739	23	1	100	1
9/20/2012	9:57 AM	63.3	63.3	63.2	73	54.5	1	E	0.02	2	E	63.3	63.2	63.2	30.204	0	0	0.001	0	74.9	51	55.6	75	9.35	0.0738	24	1	100	1
9/20/2012	9:58 AM	63.5	63.5	63.3	73	54.7	4	E	0.07	8	E	63.5	63.4	63.4	30.203	0	0	0.001	0	75	51	55.6	75.2	9.35	0.0738	23	1	100	1
9/20/2012	9:59 AM	63.7	63.7	63.5	72	54.5	5	E	0.08	7	E	63.7	63.6	63.6	30.202	0	0	0.001	0	75	51	55.6	75.2	9.35	0.0738	24	1	100	1
9/20/2012	10:00 AM	63.7	63.7	63.7	72	54.5	5	E	0.08	7	E	63.7	63.6	63.6	30.204	0	0	0.001	0	75.2	51	55.8	75.4	9.35	0.0738	23	1	100	1
9/20/2012	10:01 AM	63.7	63.7	63.7	72	54.5	2	E	0.03	3	E	63.7	63.6	63.6	30.204	0	0	0.001	0	75.2	51	55.8	75.4	9.35	0.0738	23	1	100	1
9/20/2012	10:02 AM	63.8	63.8	63.7	72	54.6	3	ENE	0.05	5	E	63.8	63.7	63.7	30.203	0	0	0.001	0	75.4	51	56	75.5	9.35	0.0737	24	1	100	1
9/20/2012	10:03 AM	63.8	63.8	63.8	72	54.6	3	ENE	0.05	5	ENE	63.8	63.7	63.7	30.202	0	0	0.001	0	75.6	51	56.2	75.7	9.35	0.0737	23	1	100	1
9/20/2012	10:04 AM	63.9	63.9	63.8	72	54.7	4	E	0.07	7	E	63.9	63.8	63.8	30.204	0	0	0.001	0	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	10:05 AM	64	64	63.9	72	54.8	4	E	0.07	6	E	64	63.9	63.9	30.203	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	23	1	100	1
9/20/2012	10:06 AM	64	64	64	72	54.8	4	E	0.07	7	E	64	63.9	63.9	30.205	0	0	0.001	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:07 AM	64	64	64	71	54.4	4	E	0.07	8	E	64	63.9	63.9	30.203	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:08 AM	64	64	64	72	54.8	4	E	0.07	8	E	64	63.9	63.9	30.202	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:09 AM	64	64	64	72	54.8	3	E	0.05	6	E	64	63.9	63.9	30.204	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	24	1	100	1
9/20/2012	10:10 AM	64	64	64	72	54.8	4	E	0.07	6	E	64	63.9	63.9	30.202	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:11 AM	64	64	64	72	54.8	4	E	0.07	8	ENE	64	63.9	63.9	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	10:12 AM	64.1	64.1	64	72	54.9	3	ENE	0.05	9	ENE	64.1	64	64	30.204	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:13 AM	64	64.1	64	72	54.8	5	E	0.08	8	E	64	63.9	63.9	30.204	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:14 AM	64	64	64	72	54.8	3	E	0.05	6	E	64	63.9	63.9	30.204	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:15 AM	64	64.1	64	72	54.8	4	E	0.07	6	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:16 AM	64	64.1	64	72	54.8	4	E	0.07	5	E	64	63.9	63.9	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	10:17 AM	64	64	64	72	54.8	3	E	0.05	5	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:18 AM	64	64	64	72	54.8	4	E	0.07	7	E	64	63.9	63.9	30.206	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:19 AM	64	64	64	72	54.8	3	E	0.05	7	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:20 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	E	63.9	63.8	63.8	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	10:21 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	ENE	63.9	63.8	63.8	30.204	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	24	1	100	1
9/20/2012	10:22 AM	63.9	63.9	63.9	72	54.7	3	ENE	0.05	5	ENE	63.9	63.8	63.8	30.202	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:23 AM	63.9	63.9	63.9	73	55.1	5	ENE	0.08	7	E	63.9	63.9	63.9	30.202	0	0	0.001	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:24 AM	64	64	63.9	73	55.2	5	ENE	0.08	7	ENE	64	64	64	30.203	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:25 AM	64.1	64.1	64	73	55.3	4	ENE	0.07	5	ENE	64.1	64.1	64.1	30.202	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	22	1	95.7	1
9/20/2012	10:26 AM	64.3	64.3	64.1	73	55.5	4	E	0.07	8	E	64.3	64.3	64.3	30.2	0	0	0	0	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	10:27 AM	64.4	64.4	64.3	72	55.2	6	E	0.1	9	E	64.4	64.

Meteorological Data
Equity IRM

9/20/2012	11:46 AM	66.8	66.8	66.6	69	56.3	1	ESE	0.02	2	ESE	66.8	67.1	67.1	30.175	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0736	23	1	100	1
9/20/2012	11:47 AM	67	67	66.8	69	56.5	0	ESE	0	1	ESE	67	67.3	67.3	30.176	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0736	23	1	100	1
9/20/2012	11:48 AM	67.3	67.3	67.1	69	56.8	0	ESE	0	1	ESE	67.3	67.7	67.7	30.176	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0736	24	1	100	1
9/20/2012	11:49 AM	67.6	67.6	67.4	67	56.2	2	ESE	0.03	4	ESE	67.6	67.9	67.9	30.178	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0736	23	1	100	1
9/20/2012	11:50 AM	67.9	67.9	67.7	67	56.5	2	ESE	0.03	3	ESE	67.9	68.2	68.2	30.176	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0735	24	1	100	1
9/20/2012	11:51 AM	68.1	68.1	67.9	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.176	0	0	0	0.002	76.6	51	57.1	76.6	9.35	0.0735	23	1	100	1
9/20/2012	11:52 AM	68.3	68.3	68.1	66	56.5	1	ESE	0.02	2	ESE	68.3	68.5	68.5	30.174	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:53 AM	68.3	68.3	68.3	66	56.5	3	ESE	0.05	4	ESE	68.3	68.5	68.5	30.176	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	11:54 AM	68.4	68.4	68.4	66	56.6	4	E	0.07	7	E	68.4	68.6	68.6	30.177	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	11:55 AM	68.4	68.4	68.4	66	56.6	2	ENE	0.03	4	ENE	68.4	68.6	68.6	30.173	0	0	0	0.002	77.3	50	57.2	77.2	9.2	0.0734	24	1	100	1
9/20/2012	11:56 AM	68.4	68.4	68.4	65	56.2	3	E	0.05	7	E	68.4	68.5	68.5	30.174	0	0	0	0.002	77.7	50	57.6	77.6	9.2	0.0733	23	1	100	1
9/20/2012	11:57 AM	68.4	68.4	68.4	65	56.2	4	E	0.07	6	E	68.4	68.5	68.5	30.175	0	0	0	0.002	77.9	50	57.8	77.9	9.19	0.0733	23	1	100	1
9/20/2012	11:58 AM	68.4	68.4	68.4	65	56.2	4	E	0.07	6	E	68.4	68.5	68.5	30.172	0	0	0	0.002	78	50	57.9	78	9.19	0.0732	24	1	100	1
9/20/2012	11:59 AM	68.3	68.4	68.3	65	56.1	1	E	0.02	3	E	68.3	68.4	68.4	30.169	0	0	0	0.002	78	50	57.9	78	9.19	0.0732	23	1	100	1
9/20/2012	12:00 PM	68.3	68.3	68.3	66	56.5	2	E	0.03	5	E	68.3	68.5	68.5	30.169	0	0	0	0.002	78.2	50	58	78.2	9.19	0.0732	24	1	100	1
9/20/2012	12:01 PM	68.4	68.4	68.3	66	56.6	4	E	0.07	7	E	68.4	68.6	68.6	30.17	0	0	0	0.002	78.2	50	58	78.2	9.19	0.0732	23	1	100	1
9/20/2012	12:02 PM	68.4	68.4	68.4	66	56.6	3	E	0.05	7	E	68.4	68.6	68.6	30.17	0	0	0	0.002	78.2	50	58	78.2	9.19	0.0732	24	1	100	1
9/20/2012	12:03 PM	68.5	68.5	68.4	66	56.7	3	E	0.05	6	E	68.5	68.6	68.6	30.169	0	0	0	0.002	78.4	50	58.2	78.5	9.18	0.0732	23	1	100	1
9/20/2012	12:04 PM	68.5	68.5	68.4	66	56.7	2	E	0.03	5	E	68.5	68.6	68.6	30.172	0	0	0	0.002	78.4	50	58.2	78.5	9.18	0.0732	23	1	100	1
9/20/2012	12:05 PM	68.6	68.6	68.5	66	56.8	4	E	0.07	8	E	68.6	68.7	68.7	30.168	0	0	0	0.002	78.6	49	57.8	78.6	8.98	0.0731	24	1	100	1
9/20/2012	12:06 PM	68.6	68.6	68.6	66	56.8	4	E	0.07	6	E	68.6	68.7	68.7	30.169	0	0	0	0.002	78.6	49	57.8	78.6	8.98	0.0732	23	1	100	1
9/20/2012	12:07 PM	68.6	68.6	68.6	66	56.8	3	E	0.05	6	E	68.6	68.7	68.7	30.169	0	0	0	0.002	78.6	49	57.8	78.6	8.98	0.0732	24	1	100	1
9/20/2012	12:08 PM	68.6	68.7	68.6	66	56.8	5	E	0.08	6	E	68.6	68.7	68.7	30.169	0	0	0	0.002	78.6	49	57.8	78.6	8.98	0.0732	23	1	100	1
9/20/2012	12:09 PM	68.5	68.6	68.5	66	56.7	4	E	0.07	6	E	68.5	68.6	68.6	30.168	0	0	0	0.002	78.6	50	58.4	78.7	9.18	0.0731	23	1	100	1
9/20/2012	12:10 PM	68.5	68.5	68.5	67	57.1	3	E	0.05	6	E	68.5	68.7	68.7	30.169	0	0	0	0.002	78.6	50	58.4	78.7	9.18	0.0731	24	1	100	1
9/20/2012	12:11 PM	68.5	68.5	68.5	66	56.7	5	E	0.08	7	E	68.5	68.6	68.6	30.169	0	0	0	0.002	78.6	49	57.8	78.6	8.98	0.0732	22	1	95.7	1
9/20/2012	12:12 PM	68.3	68.4	68.3	66	56.5	3	E	0.05	5	E	68.3	68.5	68.5	30.169	0	0	0	0.002	78.6	50	58.4	78.7	9.18	0.0731	24	1	100	1
9/20/2012	12:13 PM	68.3	68.3	68.3	66	56.5	3	E	0.05	6	E	68.3	68.5	68.5	30.17	0	0	0	0.002	78.6	50	58.4	78.7	9.18	0.0731	22	1	95.7	1
9/20/2012	12:14 PM	68	68.2	68	66	56.2	4	E	0.07	7	ESE	68	68.3	68.3	30.17	0	0	0	0.002	78.6	50	58.4	78.7	9.18	0.0731	23	1	100	1
9/20/2012	12:15 PM	68	68	68	67	56.6	2	E	0.03	5	E	68	68.4	68.4	30.17	0	0	0	0.002	78.4	50	58.2	78.5	9.18	0.0732	23	1	100	1
9/20/2012	12:16 PM	67.9	68	67.9	67	56.5	3	E	0.05	5	E	67.9	68.2	68.2	30.169	0	0	0	0.002	78.4	50	58.2	78.5	9.18	0.0732	22	1	95.7	1
9/20/2012	12:17 PM	67.8	67.9	67.8	67	56.4	3	E	0.05	5	E	67.8	68.1	68.1	30.167	0	0	0	0.002	78.2	49	57.5	78.2	8.99	0.0732	24	1	100	1
9/20/2012	12:18 PM	67.7	67.8	67.7	67	56.3	1	E	0.02	3	E	67.7	68	68	30.168	0	0	0	0.002	78.2	49	57.5	78.2	8.99	0.0732	22	1	95.7	1
9/20/2012	12:19 PM	67.6	67.7	67.6	67	56.2	0	E	0	2	E	67.6	67.9	67.9	30.166	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	24	1	100	1
9/20/2012	12:20 PM	67.6	67.6	67.6	67	56.2	3	E	0.05	6	E	67.6	67.9	67.9	30.166	0	0	0	0.002	77.9	49	57.2	77.8	8.99	0.0733	22	1	95.7	1
9/20/2012	12:21 PM	67.5	67.6	67.5	67	56.2	2	ENE	0.03	3	ENE	67.5	67.8	67.8	30.169	0	0	0	0.002	77.9	50	57.8	77.9	9.19	0.0732	23	1	100	1
9/20/2012	12:22 PM	67.4	67.5	67.4	67	56.1	3	ENE	0.05	12	NE	67.4	67.6	67.6	30.168	0	0	0	0.002	77.7	50	57.6	77.6	9.2	0.0733	23	1	100	1
9/20/2012	12:23 PM	67.4	67.4	67.4	68	56.5	4	ESE	0.07	12	NE	67.4	67.7	67.7	30.164	0	0	0	0.002	77.5	50	57.4	77.4	9.2	0.0733	22	1	95.7	1
9/20/2012	12:24 PM	67.4	67.4	67.4	68	56.5	5	E	0.08	9	E	67.4	67.7	67.7	30.167	0	0	0	0.002	77.5	50	57.4	77.4	9.2	0.0733	24	1	100	1
9/20/2012	12:25 PM	67.4	67.4	67.4	68	56.5	6	E	0.1	8	E	67.4	67.7	67.7	30.166	0	0	0	0.002	77.3	50	57.2	77.2	9.2	0.0733	23	1	100	1
9/20/2012	12:26 PM	67.5	67.5	67.4	68	56.6	2	E	0.03	6	E	67.5	67.8	67.8	30.166	0	0	0	0.002	77.3	50	57.2	77.2	9.2	0.0733	24	1	100	1
9/20/2012	12:27 PM	67.5	67.5	67.5	68	56.6	2	E	0.03	5	E	67.5	67.8	67.8	30.164	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	12:28 PM	67.6	67.6	67.5	67	56.2	3	ENE	0.05	8	ENE	67.6	67.9	67.9	30.162	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	12:29 PM	67.6	67.6	67.5	67	56.2	2	ENE	0.03	5	ENE	67.6	67.9	67.9	30.164	0	0	0	0.002	77	50	56.9	76.8	9.21	0.0734	24	1	100	1
9/20/2012	12:30 PM	67.6	67.6	67.6	67	56.2	1	ENE	0.02	2	ENE	67.6	67.9	67.9	30.164	0	0	0	0.002	77	50	56.9	76.8	9.21	0.0734	23	1	100	1
9/20/2012	12:31 PM	67.6	67.6	67.5	68	56.7	3	ENE	0.05	5	ENE	67.6	68	68	30.164	0	0	0	0.002	77	50	56.9	76.8	9.21	0.0734	24	1	100	1
9/20/2012	12:32 PM	67.5	67.5	67.5	68	56.6	1	ENE	0.02	2	ENE	67.5	67.8	67.8	30.165	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:33 PM	67.6	67.6	67.5	68	56.7	1	ENE	0.02	3	ENE	67.6	68	68	30.163	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:34 PM	67.6	67.6	67.6	68	56.7	2	ENE	0.03	3	ENE	67.6	68	68	30.161	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:35 PM	67.7	67.7	67.6	67	56.3	3	ENE	0.05	5	ENE	67.7	68	68	30.162	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:36 PM	67.7	67.7	67.7	67	56.3	1	ENE	0.02	3	ENE	67.7	68	68	30.162	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:37 PM	67.8	67.8	67.7	68	56.9	2	ENE	0.03	4	ENE	67.8	68.2	68.2	30.159	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:38 PM	67.9	67.9	67.8	67	56.5	3	ENE	0.05	5	ENE	67.9	68.2	68.2	30.158	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:39 PM	67.9	67.9	67.9	68	56.9	2	ENE	0.03	3	ENE	67.9	68.3	68.3	30.158	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:40 PM	67.9	67.9	67.9	67	56.5	2	ENE	0.03	4	ENE	67.9	68.2	68.2	30.159	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:41 PM	68	68	67.9	68	57	2	E	0.03	3	ENE	68	68.4	68.4	30.159	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:42 PM	68.1	68.1	68	67	56.7	3	ENE	0.05	5	E	68.1	68.4	68.4	30.159	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:43 PM	68.1	68.1	68.1	67	56.7	2	E	0.03	5	E	68.1	68.4	68.4	30.161	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:44 PM	68.1	68.2	68.1	67	56.7	1	E	0.02	2	E	68.1	68.4	68.4	30.158	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:45 PM	68.2	68.2	68.2	67	56.8	3	E	0.05	5	E	68.2	68.5	68.5	30.159	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:46 PM	68.3	68.3	68.2	67	56.9	3	E	0.05	6	E	68.3	68.6	68.6	30.16	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	24	1	100	1
9/20/2012	12:47 PM	68.2	68.2	68.2	67	56.8	2	E	0.03	6	E	68.2	68.5	68.5	30.158	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	12:48 PM	68.2	68.2	68.2	68	57.2	4	ENE	0.07	7	ENE	68.2	68.6	68.6	30.157	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	24	1	100	1
9/20/2012	12:49 PM	68.2	68.2	68.1	67	56.8	4	ENE	0.07	8	ENE	68.2	68.5	68.5	30.159	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	12:50 PM	68.2	68.2	68.1	67	56.8	2	E	0.03	3	E	68.2	68.5	68.5	30.157	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	12:51 PM	68.2	68.2	68.2	67	56.8	3	E	0.05	6	E	68.2	68.5	68.5	30.158	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	24	1	100	1
9/20/2012	12:52 PM	68.3	68.3	68.2	67	56.9	3	E	0.05	5	E	68.3	68.6	68.6	30.157	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:53 PM	68.4	68.4	68.3	67	57	3	E	0.05	5	E	68.4	68.7	68.7	30.158	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:54 PM	68.4	68.4	68.4	66	56.6	4	E	0.07	7	E	68.4	68.6	68.6	30.157	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:55 PM	68.4	68.4	68.4	67	57	2	E	0.03	3	E	68.4	68.7	68.7	30.157	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:56 PM	68.4	68.4	68.4	67	57	1	E	0.02	2	E	68.4	68.7	68.7	30.158	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:57 PM	68.4	68.4	68.4	67	57	3	E	0.05	5	E	68.4	68.7	68.7	30.157	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	23	1	100	1
9/20/2012	12:58 PM	68.3	68.4	68.3	67	56.9	1	E	0.02	5	E	68.3	68.6	68.6	30.157	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	12:59 PM	68.2	68.2	68.2	67	56.8	0	E	0	1	E	68.2	68.5	68.5	30.155	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0733	23	1	100	1
9/20/2012	1:00 PM	68.1	68.1	68.1	68	57.1	2	E	0.03	3	E	68.1	68.5	68.5	30.154	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0733	24	1	100	1
9/20/2012	1:01 PM	68.1	68.1	68.1	68	57.1	1	E	0.02	3	E	68.1	68.5	68.5	30.155	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	22	1	95.7	1
9/20/2012	1:02 PM	68.1	68.1	68.1	68	57.1	2	E	0.03	3	E	68.1	68.5	68.5	30.153	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	1:03 PM	68	68	68	68	57	2	E	0.03	5	E	68	68.4	68.4	30.154	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	1:04 PM	68	68	68	67	56.6	3	E	0.05	7	ESE	68	68.4	68.4	30.155	0	0	0	0.002	76.8	51	57.3	76.7	9.35	0.0734	23	1	100	1
9/20/2012	1:05 PM	68	68	68	67	56.6	1	ESE	0.02	2	ESE	68	68.4	68.4	30.155	0	0	0	0.002	76.6	50	56.6	76.5	9.22	0.0734	23	1	100	1
9/20/2012	1:06 PM	67.9	68	67.9	67	56.5	3	SE	0.05	7	SE	67.9	68.2	68.2	30.154	0	0	0	0.002	76.6	51	57.1	76.6	9.35	0.0734	22	1	95.7	1
9/20/2012	1:07 PM	67.9	67.9	67.9	68	56.9	3	SE	0.05	6	SE	67.9	68.3	68.3	30.154	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0735	24	1	100	1
9/20/2012	1:08 PM	67.8	67.9	67.8	68	56.9	2	SE	0.03	5	SE	67.8	68.2	68.2	30.152	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	22	1	95.7	1
9/20/2012	1:09 PM	67.8	67.8	67.8	68	56.9	5	SE	0.08	7	SE	67.8	68.2	68.2	30.152	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	23	1	100	1
9/20/2012	1:10 PM	67.7	67.7	67.7	68	56.8	2	SE	0.03	3	SE	67.7	68.1	68.1	30.15	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0735	23	1	100	1
9/20/2012	1:11 PM	67.8	67.8	67.8	68	56.9	2	SE	0.03	3	SE	67.8	68.2	68.2	30.15	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0735	23	1	100	1
9/20/2012	1:12 PM	67.8	67.8	67.8	68	56.9	1	SE	0.02	3	SE	67.8	68.2	68.2	30.15	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0735	23	1	100	1
9/20/2012	1:13 PM	67.9	67.9	67.8	68	56.9	1	SE	0.02	2	SE	67.9	68.3	68.3	30.148	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0735	23	1	100	1
9/20/2012	1:14 PM	67.9	67.9	67.8	68	56.9	3	SE	0.05	7	SE	67.9	68.3	68.3	30.147	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0735	22	1	95.7	1
9/20/2012	1:15 PM	68	68	67.9	68	57	4	ESE	0.07	7	ESE	68	68.4	68.4	30.147	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	1:16 PM	68	68	68	67	56.6	2	ESE	0.03	5	ESE	68	68.4	68.4	30.146	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	1:17 PM	68.1	68.1	68	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.145	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	24	1	100	1
9/20/2012	1:18 PM	68.1	68.1	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.146	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:19 PM	68.2	68.2	68.1	67	56.8	3	ESE	0.05	5	ESE	68.2	68.5	68.5	30.147	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	24	1	100	1
9/20/2012	1:20 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:21 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.1	57	59.8	76.6	10.31	0.0733	23	1	100	1
9/20/2012	1:22 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	5	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.3	59	60.9	76.9	10.7	0.0733	24	1	100	1
9/20/2012	1:23 PM	68.1	68.2	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.147	0	0	0	0.002	76.3	57	59.9	76.8	10.3	0.0733	23	1	100	1
9/20/2012	1:24 PM	68.1	68.2	68.1	68	57.1	0	ESE	0	2	ESE	68.1	68.5	68.5	30.144	0	0	0	0.002	76.4	57	60	76.9	10.29	0.0733	24	1	100	1
9/20/2012	1:25 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	3	ESE	68.2	68.5	68.5	30.143	0	0	0	0.002	76.4	62	62.4	77.3	11.22	0.0732	23	1	100	1
9/20/2012	1:26 PM	68.1	68.2	68.1	68	57.1	2	ESE	0.03	2	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002

Meteorological Data
Equity IRM

9/20/2012	2:46 PM	69.2	69.2	69.2	62	55.6	3	SE	0.05	6	SE	69.2	68.8	68.8	30.128	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	23	1	100	1
9/20/2012	2:47 PM	69.2	69.2	69.2	62	55.6	2	ESE	0.03	4	SE	69.2	68.8	68.8	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:48 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.126	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:49 PM	69.2	69.2	69.2	63	56.1	4	ESE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:50 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	22	1	95.7	1
9/20/2012	2:51 PM	69.1	69.2	69.1	63	56	6	SSE	0.1	8	SE	69.1	68.8	68.8	30.129	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	24	1	100	1
9/20/2012	2:52 PM	69.1	69.1	69.1	63	56	7	SSE	0.12	10	S	69.1	68.8	68.8	30.127	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	22	1	95.7	1
9/20/2012	2:53 PM	69	69.1	69	64	56.3	6	SSE	0.1	8	SSE	69	68.8	68.8	30.128	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	24	1	100	1
9/20/2012	2:54 PM	68.9	69	68.9	64	56.2	5	SSE	0.08	10	SE	68.9	68.7	68.7	30.13	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	22	1	95.7	1
9/20/2012	2:55 PM	68.9	68.9	68.9	64	56.2	5	S	0.08	7	S	68.9	68.7	68.7	30.126	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	23	1	100	1
9/20/2012	2:56 PM	68.9	68.9	68.8	64	56.2	3	ESE	0.05	5	S	68.9	68.7	68.7	30.128	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	2:57 PM	68.9	68.9	68.8	64	56.2	5	SE	0.08	8	SSE	68.9	68.7	68.7	30.13	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	2:58 PM	68.9	68.9	68.9	64	56.2	5	SSE	0.08	9	SSE	68.9	68.7	68.7	30.13	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	24	1	100	1
9/20/2012	2:59 PM	68.9	68.9	68.9	64	56.2	4	SSE	0.07	6	SSE	68.9	68.7	68.7	30.129	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	3:00 PM	68.9	68.9	68.9	64	56.2	4	SSE	0.07	7	ESE	68.9	68.7	68.7	30.128	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	3:01 PM	68.9	68.9	68.9	64	56.2	7	S	0.12	9	S	68.9	68.7	68.7	30.128	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	24	1	100	1
9/20/2012	3:02 PM	68.9	68.9	68.9	65	56.6	7	S	0.12	11	S	68.9	68.8	68.8	30.13	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	3:03 PM	68.8	68.8	68.8	65	56.6	7	S	0.12	11	S	68.8	68.8	68.8	30.129	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	24	1	100	1
9/20/2012	3:04 PM	68.7	68.8	68.7	66	56.9	7	SSE	0.12	9	SE	68.7	68.8	68.8	30.129	0	0	0	0.003	74.3	52	55.5	74.3	9.56	0.0737	23	1	100	1
9/20/2012	3:05 PM	68.6	68.7	68.6	66	56.8	6	SSE	0.1	11	S	68.6	68.7	68.7	30.13	0	0	0	0.002	74.2	52	55.4	74.2	9.57	0.0738	24	1	100	1
9/20/2012	3:06 PM	68.6	68.6	68.6	65	56.4	7	SSE	0.12	11	SSE	68.6	68.6	68.6	30.13	0	0	0	0.002	74.2	52	55.4	74.2	9.57	0.0738	23	1	100	1
9/20/2012	3:07 PM	68.5	68.5	68.5	65	56.3	5	SE	0.08	8	SSE	68.5	68.6	68.6	30.129	0	0	0	0.002	74.2	52	55.4	74.2	9.57	0.0738	23	1	100	1
9/20/2012	3:08 PM	68.4	68.5	68.4	66	56.6	3	S	0.05	7	SE	68.4	68.6	68.6	30.13	0	0	0	0.002	74.2	52	55.4	74.2	9.57	0.0738	24	1	100	1
9/20/2012	3:09 PM	68.3	68.4	68.3	66	56.5	5	SE	0.08	11	SSE	68.3	68.5	68.5	30.128	0	0	0	0.002	74.2	52	55.4	74.2	9.57	0.0738	23	1	100	1
9/20/2012	3:10 PM	68.4	68.4	68.3	65	56.2	5	SSE	0.08	10	SSE	68.4	68.5	68.5	30.127	0	0	0	0.002	74.2	53	56	74.3	9.68	0.0737	24	1	100	1
9/20/2012	3:11 PM	68.3	68.4	68.3	65	56.1	6	SSE	0.1	10	SSE	68.3	68.4	68.4	30.126	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:12 PM	68.4	68.4	68.3	65	56.2	2	E	0.03	6	SE	68.4	68.5	68.5	30.125	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:13 PM	68.4	68.4	68.4	65	56.2	4	SSE	0.07	7	SSE	68.4	68.5	68.5	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:14 PM	68.4	68.4	68.4	65	56.2	5	SSE	0.08	10	SSE	68.4	68.5	68.5	30.125	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:15 PM	68.5	68.5	68.4	65	56.3	4	SE	0.07	8	SE	68.5	68.6	68.6	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:16 PM	68.5	68.5	68.5	66	56.7	6	SSE	0.1	10	SE	68.5	68.6	68.6	30.125	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	3:17 PM	68.6	68.6	68.5	65	56.4	6	SSE	0.1	8	SSE	68.6	68.6	68.6	30.127	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	3:18 PM	68.6	68.6	68.6	65	56.4	5	ESE	0.08	15	ESE	68.6	68.6	68.6	30.128	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	3:19 PM	68.6	68.6	68.6	64	55.9	8	SE	0.13	15	ESE	67.9	68.5	67.8	30.13	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	3:20 PM	68.6	68.6	68.6	64	55.9	9	SSE	0.15	13	SSE	67.2	68.5	67.1	30.129	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	3:21 PM	68.5	68.6	68.5	64	55.8	6	SSE	0.1	9	S	68.5	68.4	68.4	30.127	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	3:22 PM	68.5	68.5	68.5	64	55.8	6	SSE	0.1	9	SSE	68.5	68.4	68.4	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:23 PM	68.5	68.5	68.5	64	55.8	4	SSE	0.07	8	S	68.5	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:24 PM	68.5	68.5	68.5	65	56.3	6	SE	0.1	12	SE	68.5	68.6	68.6	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:25 PM	68.5	68.5	68.4	65	56.3	6	SSE	0.1	9	SSE	68.5	68.6	68.6	30.126	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:26 PM	68.4	68.5	68.4	64	55.7	7	SSE	0.12	12	SSE	68.4	68.4	68.4	30.125	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:27 PM	68.3	68.4	68.3	65	56.1	6	SSE	0.1	9	SSE	68.3	68.4	68.4	30.127	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:28 PM	68.3	68.4	68.3	65	56.1	5	SSE	0.08	7	S	68.3	68.4	68.4	30.127	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:29 PM	68.4	68.4	68.3	65	56.2	6	SSE	0.1	8	SSE	68.4	68.5	68.5	30.127	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:30 PM	68.3	68.4	68.3	64	55.6	10	SSE	0.17	14	SSE	66.2	68.3	66.2	30.126	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	24	1	100	1
9/20/2012	3:31 PM	68.3	68.3	68.3	65	56.1	5	SSE	0.08	8	SE	68.3	68.4	68.4	30.127	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:32 PM	68.3	68.3	68.3	65	56.1	6	SE	0.1	9	SE	68.3	68.4	68.4	30.126	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	24	1	100	1
9/20/2012	3:33 PM	68.3	68.3	68.3	65	56.1	7	SSE	0.12	9	SSE	68.3	68.4	68.4	30.126	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:34 PM	68.2	68.3	68.2	65	56	7	SSE	0.12	12	SE	68.2	68.3	68.3	30.127	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	24	1	100	1
9/20/2012	3:35 PM	68.2	68.2	68.2	65	56	5	S	0.08	9	S	68.2	68.3	68.3	30.124	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	22	1	95.7	1
9/20/2012	3:36 PM	68.1	68.2	68.1	65	55.9	5	SSE	0.08	8	ESE	68.1	68.3	68.3	30.124	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:37 PM	68.1	68.1	68.1	66	56.3	5	SE	0.08	9	SE	68.1	68.4	68.4	30.126	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:38 PM	68.1	68.1	68.1	66	56.3	6	SE	0.1	8	SE	68.1	68.4	68.4	30.124	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:39 PM	68.1	68.1	68.1	66	56.3	6	SSE	0.1	12	S	68.1	68.4	68.4	30.124	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:40 PM	68.1	68.1	68	66	56.3	7	SSE	0.12	13	SSE	68.1	68.4	68.4	30.125	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	22	1	95.7	1
9/20/2012	3:41 PM	68	68	68	66	56.2	7	SE	0.12	12	SE	68	68.3	68.3	30.124	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:42 PM	67.9	68	67.9	66	56.1	7	SE	0.12	10	SSE	67.9	68.2	68.2	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:43 PM	67.8	67.9	67.8	66	56	7	SE	0.12	9	SE	67.8	68	68	30.126	0	0	0	0.002	74	52	55.3	73.9	9.57	0.0738	23	1	100	1
9/20/2012	3:44 PM	67.8	67.9	67.8	67	56.4	6	SSE	0.1	9	SSE	67.8	68.1	68.1	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:45 PM	67.8	67.8	67.8	67	56.4	6	SSE	0.1	10	SSE	67.8	68.1	68.1	30.125	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:46 PM	67.8	67.8	67.8	67	56.4	6	SSE	0.1	11	SSE	67.8	68.1	68.1	30.125	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:47 PM	67.8	67.8	67.8	67	56.4	6	SSE	0.1	9	SE	67.8	68.1	68.1	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:48 PM	67.9	67.9	67.8	67	56.5	3	ESE	0.05	8	SE	67.9	68.2	68.2	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	22	1	95.7	1
9/20/2012	3:49 PM	68	68	67.9	67	56.6	3	SE	0.05	5	E	68	68.4	68.4	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:50 PM	68.1	68.1	68	67	56.7	6	SE	0.1	10	SE	68.1	68.4	68.4	30.121	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	3:51 PM	68.2	68.2	68.1	67	56.8	4	SE	0.07	10	SE	68.2	68.5	68.5	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:52 PM	68.2	68.2	68.2	67	56.8	5	SE	0.08	10	SSE	68.2	68.5	68.5	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:53 PM	68.2	68.2	68.2	67	56.8	4	ESE	0.07	8	S	68.2	68.5	68.5	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:54 PM	68.1	68.2	68.1	67	56.7	4	SE	0.07	7	SSW	68.1	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:55 PM	68.1	68.2	68.1	67	56.7	4	E	0.07	6	E	68.1	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:56 PM	68.1	68.1	68.1	67	56.7	4	SE	0.07	9	SE	68.1	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:57 PM	68.1	68.1	68	67	56.7	6	SSE	0.1	9	SSE	68.1	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	3:58 PM	68	68	68	67	56.6	6	SSE	0.1	8	SE	68	68.4	68.4	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	3:59 PM	67.9	67.9	67.9	67	56.5	6	S	0.1	9	SSE	67.9	68.2	68.2	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:00 PM	67.7	67.8	67.7	67	56.3	8	SSE	0.13	14	SSE	67	68	67.3	30.126	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:01 PM	67.6	67.7	67.6	68	56.7	5	SSE	0.08	8	SSE	67.6	68	68	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:02 PM	67.5	67.5	67.5	68	56.6	4	SSE	0.07	6	SE	67.5	67.8	67.8	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:03 PM	67.4	67.5	67.4	68	56.5	5	SE	0.08	8	ESE	67.4	67.7	67.7	30.126	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	4:04 PM	67.4	67.4	67.4	68	56.5	4	SE	0.07	8	SE	67.4	67.7	67.7	30.124	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:05 PM	67.4	67.4	67.4	68	56.5	5	SE	0.08	8	SSE	67.4	67.7	67.7	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:06 PM	67.4	67.4	67.4	68	56.5	7	S	0.12	12	SSW	67.4	67.7	67.7	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	4:07 PM	67.3	67.4	67.3	68	56.4	6	SSE	0.1	10	S	67.3	67.6	67.6	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:08 PM	67.3	67.3	67.3	68	56.4	5	SSE	0.08	7	S	67.3	67.6	67.6	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	24	1	100	1
9/20/2012	4:09 PM	67.2	67.3	67.2	69	56.7	6	SSE	0.1	10	S	67.2	67.6	67.6	30.123	0	0	0	0.002	74	53	55.8	74	9.69	0.0738	23	1	100	1
9/20/2012	4:10 PM	67.2	67.3	67.2	68	56.3	5	SSE	0.08	7	S	67.2	67.5	67.5	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	24	1	100	1
9/20/2012	4:11 PM	67.2	67.2	67.2	69	56.7	4	SSE	0.07	6	SSE	67.2	67.6	67.6	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:12 PM	67.2	67.2	67.2	69	56.7	4	SSE	0.07	8	S	67.2	67.6	67.6	30.121	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:13 PM	67.2	67.2	67.2	69	56.7	5	S	0.08	9	SW	67.2	67.6	67.6	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:14 PM	67.2	67.2	67.1	69	56.7	4	SSE	0.07	7	SSE	67.2	67.6	67.6	30.121	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:15 PM	67.2	67.2	67.1	69	56.7	2	SSE	0.03	3	SSE	67.2	67.6	67.6	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:16 PM	67.2	67.2	67.2	69	56.7	3	SE	0.05	8	ESE	67.2	67.6	67.6	30.121	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	4:17 PM	67.2	67.2	67.2	69	56.7	4	ESE	0.07	6	SE	67.2	67.6	67.6	30.121	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	22	1	95.7	1
9/20/2012	4:18 PM	67.3	67.3	67.2	69	56.8	2	SE	0.03	4	SE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:19 PM	67.3	67.3	67.3	69	56.8	3	SE	0.05	4	SE	67.3	67.7	67.7	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	4:20 PM	67.4	67.4	67.3	69	56.9	3	SSE	0.05	7	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:21 PM	67.4	67.4	67.4	69	56.9	4	SSE	0.07	9	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	23	1	100	1
9/20/2012	4:22 PM	67.4	67.4	67.3	68	56.5	6	SSE	0.1	8	SSE	67.4	67.7	67.7	30.122	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:23 PM	67.3	67.4	67.3	68	56.4	4	SSE	0.07	7	SSE	67.3	67.6	67.6	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	24	1	100	1
9/20/2012	4:24 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:25 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:26 PM	67.3	67.3	67.3	68	56.4	6	SSE	0.1	8	SSE

Meteorological Data
Equity IRM

9/20/2012	5:46 PM	66.3	66.4	66.3	71	56.6	4	SSE	0.07	8	S	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:47 PM	66.3	66.3	66.3	71	56.6	6	ESE	0.1	11	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:48 PM	66.3	66.3	66.3	71	56.6	4	E	0.07	7	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:49 PM	66.3	66.3	66.3	71	56.6	7	SE	0.12	12	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:50 PM	66.3	66.3	66.3	71	56.6	5	E	0.08	8	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:51 PM	66.3	66.3	66.3	71	56.6	4	SSE	0.07	7	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:52 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	9	SSE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:53 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	7	S	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:54 PM	66.3	66.3	66.3	71	56.6	3	SSE	0.05	7	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	24	1	100	1
9/20/2012	5:55 PM	66.3	66.3	66.3	71	56.6	5	SE	0.08	9	SE	66.3	66.6	66.6	30.122	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	23	1	100	1
9/20/2012	5:56 PM	66.3	66.4	66.3	71	56.6	6	SSE	0.1	11	E	66.3	66.6	66.6	30.122	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	24	1	100	1
9/20/2012	5:57 PM	66.3	66.4	66.3	71	56.6	4	SE	0.07	7	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	23	1	100	1
9/20/2012	5:58 PM	66.3	66.4	66.3	71	56.6	2	ESE	0.03	4	ESE	66.3	66.6	66.6	30.12	0	0	0	0.001	70.4	54	53	69.1	9.94	0.0744	23	1	100	1
9/20/2012	5:59 PM	66.3	66.4	66.3	71	56.6	3	ESE	0.05	8	E	66.3	66.6	66.6	30.121	0	0	0	0.001	70.2	54	52.8	68.9	9.95	0.0744	24	1	100	1
9/20/2012	6:00 PM	66.4	66.4	66.3	71	56.7	6	SE	0.1	10	S	66.4	66.7	66.7	30.12	0	0	0	0.001	70.2	54	52.8	68.9	9.95	0.0744	23	1	100	1
9/20/2012	6:01 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	8	S	66.4	66.7	66.7	30.12	0	0	0	0.001	70.2	54	52.8	68.9	9.95	0.0744	24	1	100	1
9/20/2012	6:02 PM	66.3	66.4	66.3	71	56.6	6	SE	0.1	10	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.2	54	52.8	68.9	9.95	0.0744	22	1	95.7	1
9/20/2012	6:03 PM	66.3	66.3	66.3	71	56.6	5	SE	0.08	7	SSE	66.3	66.6	66.6	30.12	0	0	0	0.001	70.2	54	52.8	68.9	9.95	0.0744	23	1	100	1
9/20/2012	6:04 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	8	SE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.1	54	52.7	68.7	9.95	0.0744	24	1	100	1
9/20/2012	6:05 PM	66.3	66.3	66.3	71	56.6	5	SE	0.08	9	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.1	54	52.7	68.7	9.95	0.0744	23	1	100	1
9/20/2012	6:06 PM	66.3	66.3	66.3	71	56.6	5	SE	0.08	9	SSE	66.3	66.6	66.6	30.117	0	0	0	0.001	70.1	54	52.7	68.7	9.95	0.0744	24	1	100	1
9/20/2012	6:07 PM	66.2	66.3	66.2	71	56.5	6	S	0.1	9	S	66.2	66.5	66.5	30.116	0	0	0	0.001	70.1	54	52.7	68.7	9.95	0.0744	23	1	100	1
9/20/2012	6:08 PM	66.2	66.2	66.2	71	56.5	5	SSE	0.08	9	SSE	66.2	66.5	66.5	30.121	0	0	0	0.001	70.1	54	52.7	68.7	9.95	0.0744	23	1	100	1
9/20/2012	6:09 PM	66.2	66.2	66.2	71	56.5	3	SSE	0.05	6	SE	66.2	66.5	66.5	30.117	0	0	0	0.001	69.9	54	52.5	68.5	9.95	0.0744	24	1	100	1
9/20/2012	6:10 PM	66.1	66.2	66.1	71	56.4	4	SE	0.07	7	SSE	66.1	66.4	66.4	30.117	0	0	0	0.001	69.9	54	52.5	68.5	9.95	0.0744	23	1	100	1
9/20/2012	6:11 PM	66.2	66.2	66.2	71	56.5	4	ESE	0.07	8	SSE	66.2	66.5	66.5	30.119	0	0	0	0.001	69.9	54	52.5	68.5	9.95	0.0744	24	1	100	1
9/20/2012	6:12 PM	66.2	66.2	66.2	71	56.5	2	ESE	0.03	4	SE	66.2	66.5	66.5	30.117	0	0	0	0.001	69.9	54	52.5	68.5	9.95	0.0744	23	1	100	1
9/20/2012	6:13 PM	66.3	66.3	66.2	71	56.6	2	SE	0.03	4	SSE	66.3	66.6	66.6	30.122	0	0	0	0.001	69.9	54	52.5	68.5	9.95	0.0744	24	1	100	1
9/20/2012	6:14 PM	66.3	66.3	66.3	71	56.6	3	SSE	0.05	4	SSE	66.3	66.6	66.6	30.122	0	0	0	0.001	69.7	54	52.3	68.4	9.96	0.0745	23	1	100	1
9/20/2012	6:15 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	8	SSE	66.3	66.6	66.6	30.122	0	0	0	0.001	69.7	54	52.3	68.4	9.96	0.0745	21	1	91.3	1
9/20/2012	6:16 PM	66.3	66.3	66.3	71	56.6	4	SE	0.07	8	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	69.7	54	52.3	68.4	9.96	0.0745	23	1	100	1
9/20/2012	6:17 PM	66.3	66.3	66.3	71	56.6	6	SSE	0.1	9	S	66.3	66.6	66.6	30.122	0	0	0	0.001	69.7	54	52.3	68.4	9.96	0.0745	23	1	100	1
9/20/2012	6:18 PM	66.3	66.3	66.3	71	56.6	4	SSE	0.07	8	SSE	66.3	66.6	66.6	30.123	0	0	0	0.001	69.6	54	52.2	68.3	9.97	0.0745	23	1	100	1
9/20/2012	6:19 PM	66.3	66.3	66.3	71	56.6	3	SSE	0.05	4	SSE	66.3	66.6	66.6	30.123	0	0	0	0.001	69.6	54	52.2	68.3	9.97	0.0745	23	1	100	1
9/20/2012	6:20 PM	66.3	66.3	66.2	71	56.6	5	SSE	0.08	8	SSE	66.3	66.6	66.6	30.123	0	0	0	0.001	69.6	54	52.2	68.3	9.97	0.0745	22	1	95.7	1
9/20/2012	6:21 PM	66.2	66.3	66.2	71	56.5	6	S	0.1	7	SE	66.2	66.5	66.5	30.123	0	0	0	0.001	69.6	54	52.2	68.3	9.97	0.0745	24	1	100	1
9/20/2012	6:22 PM	66.2	66.2	66.2	71	56.5	5	SE	0.08	9	SE	66.2	66.5	66.5	30.122	0	0	0	0.001	69.6	54	52.2	68.3	9.97	0.0745	22	1	95.7	1
9/20/2012	6:23 PM	66.2	66.2	66.2	71	56.5	4	SE	0.07	8	SSE	66.2	66.5	66.5	30.121	0	0	0	0.001	69.4	54	52	68.2	9.97	0.0745	24	1	100	1
9/20/2012	6:24 PM	66.2	66.2	66.2	71	56.5	3	SE	0.05	6	SE	66.2	66.5	66.5	30.121	0	0	0	0.001	69.4	54	52	68.2	9.97	0.0745	22	1	95.7	1
9/20/2012	6:25 PM	66.2	66.2	66.1	71	56.5	6	SSE	0.1	11	SE	66.2	66.5	66.5	30.123	0	0	0	0.001	69.4	54	52	68.2	9.97	0.0745	23	1	100	1
9/20/2012	6:26 PM	66.1	66.2	66.1	71	56.4	4	SSE	0.07	8	SSE	66.1	66.4	66.4	30.123	0	0	0	0.001	69.4	54	52	68.2	9.97	0.0745	23	1	100	1
9/20/2012	6:27 PM	66.1	66.1	66.1	72	56.8	4	SSE	0.07	7	SSE	66.1	66.4	66.4	30.122	0	0	0	0.001	69.4	54	52	68.2	9.97	0.0745	21	1	91.3	1
9/20/2012	6:28 PM	66.1	66.1	66.1	72	56.8	4	ESE	0.07	7	SSE	66.1	66.4	66.4	30.122	0	0	0	0.001	69.2	54	51.8	68.1	9.98	0.0746	24	1	100	1
9/20/2012	6:29 PM	66.1	66.1	66.1	72	56.8	6	SSE	0.1	9	SSE	66.1	66.4	66.4	30.124	0	0	0	0.001	69.2	54	51.8	68.1	9.98	0.0746	23	1	100	1
9/20/2012	6:30 PM	66.1	66.1	66.1	72	56.8	4	SSE	0.07	6	S	66.1	66.4	66.4	30.124	0	0	0	0.001	69.2	54	51.8	68.1	9.98	0.0746	23	1	100	1
9/20/2012	6:31 PM	66.1	66.1	66.1	72	56.8	6	SSE	0.1	9	SE	66.1	66.4	66.4	30.124	0	0	0	0.001	69.2	54	51.8	68.1	9.98	0.0746	23	1	100	1
9/20/2012	6:32 PM	66	66.1	66	72	56.7	4	SSE	0.07	8	S	66	66.3	66.3	30.124	0	0	0	0.001	69	54	51.7	67.9	9.99	0.0746	23	1	100	1
9/20/2012	6:33 PM	66	66.1	66	72	56.7	4	SSE	0.07	6	SSE	66	66.3	66.3	30.122	0	0	0	0.001	69	54	51.7	67.9	9.99	0.0746	22	1	95.7	1
9/20/2012	6:34 PM	66	66	66	72	56.7	4	SE	0.07	6	SE	66	66.3	66.3	30.122	0	0	0	0.001	69	54	51.7	67.9	9.99	0.0746	23	1	100	1
9/20/2012	6:35 PM	66	66	66	72	56.7	5	SSE	0.08	10	ESE	66	66.3	66.3	30.122	0	0	0	0.001	69	54	51.7	67.9	9.99	0.0746	24	1	100	1
9/20/2012	6:36 PM	66	66	65.9	72	56.7	5	SE	0.08	6	S	66	66.3	66.3	30.121	0	0	0	0.001	69	54	51.7	67.9	9.99	0.0746	22	1	95.7	1
9/20/2012	6:37 PM	66	66	65.9	72	56.7	5	SE	0.08	9	SE	66	66.3	66.3	30.12	0	0	0	0.001	68.9	54	51.6	67.8	9.99	0.0746	24	1	100	1
9/20/2012	6:38 PM	65.9	65.9	65.9	72	56.6	5	SE	0.08	8	SE	65.9	66.2	66.2	30.123	0	0	0	0.001	68.9	54	51.6	67.8	9.99	0.0746	23	1	100	1
9/20/2012	6:39 PM	65.9	65.9	65.9	72	56.6	5	SE	0.08	9	SE	65.9	66.2	66.2	30.122	0	0	0	0.001	68.9	54	51.6	67.8	9.99	0.0746	23	1	100	1
9/20/2012	6:40 PM	65.9	65.9	65.9	72	56.6	3	ESE	0.05	6	E	65.9	66.2	66.2	30.123	0	0	0	0.001	68.9	54	51.6	67.8	9.99	0.0746	24	1	100	1
9/20/2012	6:41 PM	65.9	65.9	65.9	72	56.6	2	SE	0.03	4	SE	65.9	66.2	66.2	30.124	0	0	0	0.001	68.7	54	51.4	67.7	10	0.0747	23	1	100	1
9/20/2012	6:42 PM	65.9	65.9	65.9	72	56.6	2	SE	0.03	5	ESE	65.9	66.2	66.2	30.123	0	0	0	0.001	68.7	54	51.4	67.7	10	0.0747	24	1	100	1
9/20/2012	6:43 PM	65.9	65.9	65.9	72	56.6	5	ESE	0.08	8	SE	65.9	66.2	66.2	30.123	0	0	0	0.001	68.7	54	51.4	67.7	10	0.0747	23	1	100	1
9/20/2012	6:44 PM	65.9	65.9	65.9	72	56.6	5	SSE	0.08	8	SSE	65.9	66.2	66.2	30.123	0	0	0	0.001	68.7	54	51.4	67.7	10	0.0747	23	1	100	1
9/20/2012	6:45 PM	65.9	65.9	65.9	72	56.6	3	SE	0.05	5	SSE	65.9	66.2	66.2	30.122	0	0	0	0.001	68.5	54	51.2	67.5	10.01	0.0747	24	1	100	1
9/20/2012	6:46 PM	65.8	65.9	65.8	72	56.5	5	ESE	0.08	9	ESE	65.8	66.1	66.1	30.123	0	0	0	0.001	68.5	54	51.2	67.5	10.01	0.0747	23	1	100	1
9/20/2012	6:47 PM	65.8	65.8	65.8	72	56.5	3	ESE	0.05	6	SE	65.8	66.1	66.1	30.123	0	0	0	0.001	68.5	54	51.2	67.5	10.01	0.0747	24	1	100	1
9/20/2012	6:48 PM	65.8	65.8	65.8	72	56.5	3	SE	0.05	5	SE	65.8	66.1	66.1	30.122	0	0	0	0.001	68.4	54	51.1	67.4	10.01	0.0747	23	1	100	1
9/20/2012	6:49 PM	65.8	65.8	65.8	72	56.5	4	SSE	0.07	6	SSE	65.8	66.1	66.1	30.124	0	0	0	0.001	68.4	54	51.1	67.4	10.01	0.0747	24	1	100	1
9/20/2012	6:50 PM	65.8	65.8	65.8	72	56.5	4	SE	0.07	7	SE	65.8	66.1	66.1	30.124	0	0	0	0.001	68.4	54	51.1	67.4	10.01	0.0747	23	1	100	1
9/20/2012	6:51 PM	65.8	65.8	65.8	72	56.5	3	ENE	0.05	6	SE	65.8	66.1	66.1	30.123	0	0	0	0.001	68.4	54	51.1	67.4	10.01	0.0747	23	1	100	1
9/20/2012	6:52 PM	65.8	65.8	65.8	72	56.5	4	SE	0.07	8	SE	65.8	66.1	66.1	30.123	0	0	0	0.001	68.2	54	50.9	67.3	10.02	0.0747	24	1	100	1
9/20/2012	6:53 PM	65.8	65.8	65.8	72	56.5	3	SSE	0.05	7	SSE	65.8	66.1	66.1	30.122	0	0	0	0.001	68.2	54	50.9	67.3	10.02	0.0747	23	1	100	1
9/20/2012	6:54 PM	65.8	65.8	65.8	72	56.5	2	E	0.03	5	SE	65.8	66.1	66.1	30.122	0	0	0	0.001	68.2	55	51.4	67.4	10.19	0.0747	24	1	100	1
9/20/2012	6:55 PM	65.8	65.8	65.7	73	56.9	4	SE	0.07	6	SSE	65.8	66.1	66.1	30.122	0	0	0	0.001	68	55	51.2	67.2	10.19	0.0748	23	1	100	1
9/20/2012	6:56 PM	65.7	65.8	65.7	73	56.8	3	SE	0.05	7	SSE	65.7	66	66	30.123	0	0	0	0	68	55	51.2	67.2	10.19	0.0748	23	1	100	1
9/20/2012	6:57 PM	65.7	65.7	65.7	73	56.8	3	SSE	0.05	6	SSE	65.7	66	66	30.123	0	0	0	0	68	55	51.2	67.2	10.19	0.0748	24	1	100	1
9/20/2012	6:58 PM	65.7	65.7	65.7	73	56.8	5	SE	0.08	7	ESE	65.7	66	66	30.122	0	0	0	0	67.9	55	51.1	67.1	10.19	0.0748	23	1	100	1
9/20/2012	6:59 PM	65.7	65.7	65.7	73	56.8	7	SSE	0.12	12	SSE	65.7	66	66	30.121	0	0	0	0	67.9	55	51.1	67.1	10.19	0.0748	24	1	100	1
9/20/2012	7:00 PM	65.7	65.7	65.6	73	56.8	4	ESE	0.07	8	S	65.7	66	66	30.12	0	0	0	0	67.9	55	51.1	67.1	10.19	0.0748	23	1	100	1
9/20/2012	7:01 PM	65.6	65.6	65.6	73	56.7	6	E	0.1	9	SSE	65.6	65.9	65.9	30.119	0	0	0	0	67.7	55	50.9	66.9	10.2	0.0748	23	1	100	1
9/20/2012	7:02 PM	65.6	65.6	65.6	73	56.7	4	ESE	0.07	8	SE	65.6	65.9	65.9	30.121	0	0	0	0	67.7	55	50.9	66.9	10.2	0.0748	24	1	100	1
9/20/2012	7:03 PM	65.6	65.6	65.6	73	56.7	4	ESE	0.07	7	ESE	65.6	65.9	65.9	30.122	0	0	0	0	67.7	55	50.9	66.9	10.2	0.0748	23	1	100	1
9/20/2012	7:04 PM	65.6	65.6	65.5	73	56.7	5	SE	0.08	9	SE	65.6	65.9	65.9	30.12	0	0	0	0	67.5	55	50.8	66.6	10.2	0.0748	24	1	100	1
9/20/2012	7:05 PM	65.5	65.6	65.5	73	56.6	5	SSE	0.08	7	SSE	65.5	65.8	65.8	30.121	0	0	0	0	67.5	55	50.8	66.6	10.2	0.0748	23	1	100	1
9/20/2012	7:06 PM	65.5	65.5	65.5	73	56.6	4	SSE	0.07	8	SSE	65.5	65.8	65.8	30.121	0	0	0	0	67.5	55	50.8	66.6	10.2	0.0748	24	1	100	1
9/20/2012	7:07 PM	65.5	65.5	65.5	73	56.6	5	S	0.08	8	SSE	65.5	65.8	65.8	30.119	0	0	0	0	67.4	55	50.7	66.5	10.2	0.0749	23	1	100	1
9/20/2012	7:08 PM	65.4	65.5	65.4	73	56.5	6	SSE	0.1	8	SSE	65.4	65.7	65.7	30.12	0	0	0	0	67.4	55	50.7	66.5	10.2	0.0749	22	1	95.7	1
9/20/2012	7:09 PM	65.4	65.5	65.4	73	56.5	6	SSE	0.1	9	S	65.4	65.7	65.7	30.119	0	0	0	0	67.4	55	50.7	66.5	10.2	0.0749	24	1	100	1
9/20/2012	7:10 PM	65.4	65.4	65.4	73	56.5	5	ESE	0.08	11	SE	65.4	65.7	65.7	30.119	0	0	0	0	67.2	55	50.5	66.3	10.21	0.0749	22	1	95.7	1
9/20/2012	7:11 PM	65.4	65.4	65.4	73	56.5	4	SE	0.07	6	SE	65.4	65.7	65.7	30.117	0	0	0	0	67.2	55	50.5	66.3	10.21	0.0749	24	1	100	1
9/20/2012	7:12 PM	65.4	65.4	65.4	73	56.5	5	SE	0.08	9	SE	65.4	65.7	65.7	30.118	0	0	0	0	67.2	55	50.5	66.3	10.21	0.0749	21	1	91.3	1
9/20/2012	7:13 PM	65.4	65.4	65.3	73	56.5	4	SSE	0.07	7	SE	65.4	65.7	65.7	30.118	0	0	0	0	67	55	50.3	66.1	10.21	0.0749	23	1	100	1
9/20/2012	7:14 PM	65.4	65.4	65.4	74	56.9	1	SE	0.02	4	SE	65.4	65.7	65.7	30.119	0	0	0	0	67	55	50.3	66.1	10.21	0.0749	23	1	100	1
9/20/2012	7:15 PM	65.4	65.4	65.3	74	56.9	3	ESE	0.05	5	ESE	65.4	65.7	65.7	30.119	0	0	0	0	67	55	50.3	66.1	10.21	0.0749	23	1	100	1
9/20/2012	7:16 PM	65.3	65.4	65.3	74	56.8	2	SE	0.03	5	SE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	23	1	100	1
9/20/2012	7:17 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	9	SSE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	22	1	95.7	1
9/20/2012	7:18 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	7	SSE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	24	1	100	1
9/20/2012	7:19 PM	65.3	65.3	65.3	74	56.8	3	SSE	0.05	5	SE	65.3	65.6	65.6	30.117	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	22	1	95.7	1
9/20/2012	7:20 PM	65.3	65.3	65.3	74	56.8	3	SE	0.05	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:21 PM	65.3	65.3	65.3	74	56.8	6	SSE	0.1	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:22 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	8	SSE	65.3	65.6	65.6	30.121	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:23 PM	65.2	65.3	65.2	74	56.7	4	SSE	0.07	8	SSE	65.2	65.5	65.5	30.12	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:24 PM	65.2	65.3	65.2	74	56.7	2	SE	0.03	5	S	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:25 PM	65.2	65.3	65.2	74	56.7	3	SSE	0.05	4	SSE	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22

Meteorological Data
Equity IRM

9/20/2012	8:46 PM	64.4	64.5	64.4	75	56.3	1	SE	0.02	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	23	1	100	1
9/20/2012	8:47 PM	64.4	64.5	64.4	75	56.3	2	SE	0.03	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	22	1	95.7	1
9/20/2012	8:48 PM	64.4	64.4	64.4	75	56.3	2	SE	0.03	4	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	24	1	100	1
9/20/2012	8:49 PM	64.4	64.4	64.4	75	56.3	1	SE	0.02	2	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:50 PM	64.4	64.4	64.4	76	56.7	0	SE	0	1	SE	64.4	64.7	64.7	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	22	1	95.7	1
9/20/2012	8:51 PM	64.4	64.4	64.4	76	56.7	1	SE	0.02	2	SE	64.4	64.7	64.7	30.13	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:52 PM	64.4	64.4	64.4	76	56.7	2	ESE	0.03	3	ESE	64.4	64.7	64.7	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:53 PM	64.4	64.4	64.3	75	56.3	5	SSE	0.08	8	SE	64.4	64.6	64.6	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:54 PM	64.4	64.4	64.3	75	56.3	5	SE	0.08	8	SSE	64.4	64.6	64.6	30.131	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	23	1	100	1
9/20/2012	8:55 PM	64.3	64.4	64.3	76	56.6	2	SE	0.03	5	SE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	24	1	100	1
9/20/2012	8:56 PM	64.3	64.3	64.3	76	56.6	1	SE	0.02	3	SE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	21	1	91.3	1
9/20/2012	8:57 PM	64.3	64.3	64.3	76	56.6	3	SE	0.05	5	SE	64.3	64.5	64.5	30.13	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	24	1	100	1
9/20/2012	8:58 PM	64.3	64.3	64.3	76	56.6	2	SE	0.03	4	ESE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	22	1	95.7	1
9/20/2012	8:59 PM	64.3	64.3	64.3	76	56.6	2	ESE	0.03	3	ESE	64.3	64.5	64.5	30.129	0	0	0	0	63.5	57	48	62.3	10.62	0.0755	23	1	100	1
9/20/2012	9:00 PM	64.3	64.3	64.3	76	56.6	2	ESE	0.03	5	ESE	64.3	64.5	64.5	30.129	0	0	0	0	63.3	57	47.8	62.1	10.62	0.0756	23	1	100	1
9/20/2012	9:01 PM	64.3	64.3	64.3	76	56.6	2	SE	0.03	4	SE	64.3	64.5	64.5	30.128	0	0	0	0	63.3	57	47.8	62.1	10.62	0.0756	22	1	95.7	1
9/20/2012	9:02 PM	64.3	64.3	64.3	76	56.6	2	SE	0.03	3	SE	64.3	64.5	64.5	30.128	0	0	0	0	63.3	57	47.8	62.1	10.62	0.0756	24	1	100	1
9/20/2012	9:03 PM	64.3	64.3	64.2	76	56.6	1	ESE	0.02	3	ESE	64.3	64.5	64.5	30.126	0	0	0	0	63.3	57	47.8	62.1	10.62	0.0756	22	1	95.7	1
9/20/2012	9:04 PM	64.3	64.3	64.2	76	56.6	3	SE	0.05	5	SE	64.3	64.5	64.5	30.128	0	0	0	0	63.3	57	47.8	62.1	10.62	0.0756	24	1	100	1
9/20/2012	9:05 PM	64.2	64.3	64.2	76	56.5	2	SE	0.03	3	SE	64.2	64.4	64.4	30.127	0	0	0.001	0	63.2	57	47.7	61.9	10.61	0.0756	22	1	95.7	1
9/20/2012	9:06 PM	64.3	64.3	64.2	76	56.6	4	SSE	0.07	6	S	64.3	64.5	64.5	30.126	0	0	0	0	63.2	57	47.7	61.9	10.61	0.0756	23	1	100	1
9/20/2012	9:07 PM	64.2	64.3	64.2	76	56.5	2	SSE	0.03	4	SSE	64.2	64.4	64.4	30.126	0	0	0.001	0	63.2	57	47.7	61.9	10.61	0.0756	23	1	100	1
9/20/2012	9:08 PM	64.2	64.3	64.2	76	56.5	1	SSE	0.02	3	SSE	64.2	64.4	64.4	30.126	0	0	0.001	0	63.2	57	47.7	61.9	10.61	0.0756	22	1	95.7	1
9/20/2012	9:09 PM	64.2	64.2	64.2	76	56.5	3	SSE	0.05	5	SSE	64.2	64.4	64.4	30.128	0	0	0.001	0	63.2	57	47.7	61.9	10.61	0.0756	24	1	100	1
9/20/2012	9:10 PM	64.2	64.2	64.2	76	56.5	4	SE	0.07	7	SSE	64.2	64.4	64.4	30.128	0	0	0.001	0	63.2	57	47.7	61.9	10.61	0.0756	22	1	95.7	1
9/20/2012	9:11 PM	64.2	64.2	64.2	76	56.5	5	SSE	0.08	8	SSE	64.2	64.4	64.4	30.129	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	23	1	100	1
9/20/2012	9:12 PM	64.2	64.2	64.2	76	56.5	4	SSE	0.07	6	SSE	64.2	64.4	64.4	30.127	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	22	1	95.7	1
9/20/2012	9:13 PM	64.2	64.2	64.2	76	56.5	5	SE	0.08	8	SE	64.2	64.4	64.4	30.125	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	23	1	100	1
9/20/2012	9:14 PM	64.2	64.2	64.2	76	56.5	3	SE	0.05	5	SE	64.2	64.4	64.4	30.127	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	24	1	100	1
9/20/2012	9:15 PM	64.2	64.2	64.2	76	56.5	2	E	0.03	3	SE	64.2	64.4	64.4	30.127	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	22	1	95.7	1
9/20/2012	9:16 PM	64.2	64.2	64.2	76	56.5	3	SE	0.05	6	SE	64.2	64.4	64.4	30.127	0	0	0.001	0	63	57	47.5	61.7	10.61	0.0756	24	1	100	1
9/20/2012	9:17 PM	64.2	64.2	64.2	76	56.5	1	SE	0.02	3	SE	64.2	64.4	64.4	30.125	0	0	0.001	0	62.9	57	47.4	61.6	10.61	0.0756	23	1	100	1
9/20/2012	9:18 PM	64.2	64.2	64.2	76	56.5	3	SE	0.05	5	SE	64.2	64.4	64.4	30.125	0	0	0.001	0	62.9	57	47.4	61.6	10.61	0.0756	23	1	100	1
9/20/2012	9:19 PM	64.2	64.2	64.1	76	56.5	2	SE	0.03	3	SE	64.2	64.4	64.4	30.124	0	0	0.001	0	62.9	57	47.4	61.6	10.61	0.0756	24	1	100	1
9/20/2012	9:20 PM	64.2	64.2	64.1	76	56.5	3	SE	0.05	7	SE	64.2	64.4	64.4	30.123	0	0	0.001	0	62.9	57	47.4	61.6	10.61	0.0756	23	1	100	1
9/20/2012	9:21 PM	64.1	64.2	64.1	76	56.4	3	SSE	0.05	6	SSE	64.1	64.3	64.3	30.124	0	0	0.001	0	62.9	57	47.4	61.6	10.61	0.0756	24	1	100	1
9/20/2012	9:22 PM	64.1	64.1	64.1	76	56.4	2	SSE	0.03	3	SSE	64.1	64.3	64.3	30.124	0	0	0.001	0	62.9	58	47.9	61.7	10.75	0.0756	23	1	100	1
9/20/2012	9:23 PM	64.1	64.1	64.1	76	56.4	2	ESE	0.03	3	ESE	64.1	64.3	64.3	30.124	0	0	0.001	0	62.7	58	47.7	61.5	10.75	0.0756	23	1	100	1
9/20/2012	9:24 PM	64.1	64.1	64.1	76	56.4	2	E	0.03	3	E	64.1	64.3	64.3	30.124	0	0	0.001	0	62.7	58	47.7	61.5	10.75	0.0756	24	1	100	1
9/20/2012	9:25 PM	64.1	64.1	64.1	76	56.4	1	E	0.02	3	E	64.1	64.3	64.3	30.123	0	0	0.001	0	62.7	57	47.2	61.4	10.6	0.0757	23	1	100	1
9/20/2012	9:26 PM	64.1	64.1	64	76	56.4	1	E	0.02	2	E	64.1	64.3	64.3	30.123	0	0	0.001	0	62.7	58	47.7	61.5	10.75	0.0756	24	1	100	1
9/20/2012	9:27 PM	64	64.1	64	77	56.6	1	E	0.02	2	E	64	64.3	64.3	30.123	0	0	0.001	0	62.7	58	47.7	61.5	10.75	0.0756	23	1	100	1
9/20/2012	9:28 PM	64	64	64	76	56.3	1	E	0.02	2	E	64	64.2	64.2	30.125	0	0	0.001	0	62.7	58	47.7	61.5	10.75	0.0756	24	1	100	1
9/20/2012	9:29 PM	64	64	64	77	56.6	0	E	0	2	E	64	64.3	64.3	30.125	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	23	1	100	1
9/20/2012	9:30 PM	64	64	64	77	56.6	1	E	0.02	2	E	64	64.3	64.3	30.124	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	23	1	100	1
9/20/2012	9:31 PM	64	64	64	77	56.6	3	ESE	0.05	5	ESE	64	64.3	64.3	30.126	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	24	1	100	1
9/20/2012	9:32 PM	63.9	64	63.9	77	56.5	2	ESE	0.03	3	ESE	63.9	64.1	64.1	30.125	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	23	1	100	1
9/20/2012	9:33 PM	63.9	63.9	63.9	77	56.5	1	ESE	0.02	3	ESE	63.9	64.1	64.1	30.124	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	24	1	100	1
9/20/2012	9:34 PM	63.9	63.9	63.9	77	56.5	3	ESE	0.05	4	ESE	63.9	64.1	64.1	30.125	0	0	0.001	0	62.5	58	47.5	61.2	10.75	0.0757	23	1	100	1
9/20/2012	9:35 PM	63.9	63.9	63.9	77	56.5	3	SE	0.05	5	SE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	23	1	100	1
9/20/2012	9:36 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	3	ESE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	24	1	100	1
9/20/2012	9:37 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	3	ESE	63.9	64.1	64.1	30.128	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	23	1	100	1
9/20/2012	9:38 PM	63.9	63.9	63.9	77	56.5	3	ESE	0.05	5	SE	63.9	64.1	64.1	30.125	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	24	1	100	1
9/20/2012	9:39 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	4	ESE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	23	1	100	1
9/20/2012	9:40 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	3	ESE	63.9	64.1	64.1	30.126	0	0	0.001	0	62.4	58	47.4	61.1	10.75	0.0757	23	1	100	1
9/20/2012	9:41 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	3	ESE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	24	1	100	1
9/20/2012	9:42 PM	63.9	63.9	63.9	77	56.5	3	ESE	0.05	5	SE	63.9	64.1	64.1	30.126	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	23	1	100	1
9/20/2012	9:43 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	4	ESE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	24	1	100	1
9/20/2012	9:44 PM	63.9	63.9	63.9	77	56.5	1	ESE	0.02	3	ESE	63.9	64.1	64.1	30.129	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	23	1	100	1
9/20/2012	9:45 PM	63.9	63.9	63.9	77	56.5	2	ESE	0.03	4	SE	63.9	64.1	64.1	30.128	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	23	1	100	1
9/20/2012	9:46 PM	63.9	63.9	63.9	77	56.5	2	SE	0.03	4	SE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.2	58	47.2	60.9	10.75	0.0757	23	1	100	1
9/20/2012	9:47 PM	63.9	63.9	63.9	77	56.5	1	SE	0.02	2	SE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.1	58	47.1	60.8	10.75	0.0758	23	1	100	1
9/20/2012	9:48 PM	63.9	63.9	63.8	77	56.5	1	ESE	0.02	2	ESE	63.9	64.1	64.1	30.127	0	0	0.001	0	62.1	58	47.1	60.8	10.75	0.0758	24	1	100	1
9/20/2012	9:49 PM	63.8	63.9	63.8	77	56.4	1	ESE	0.02	2	ESE	63.8	64	64	30.126	0	0	0.001	0	62.1	58	47.1	60.8	10.75	0.0758	23	1	100	1
9/20/2012	9:50 PM	63.8	63.9	63.8	77	56.4	3	SSE	0.05	7	SSE	63.8	64	64	30.125	0	0	0.001	0	62.1	58	47.1	60.8	10.75	0.0757	24	1	100	1
9/20/2012	9:51 PM	63.8	63.9	63.8	77	56.4	1	SSE	0.02	2	SSE	63.8	64	64	30.125	0	0	0.001	0	62.1	58	47.1	60.8	10.75	0.0757	22	1	95.7	1
9/20/2012	9:52 PM	63.8	63.8	63.8	77	56.4	1	SSE	0.02	3	SSE	63.8	64	64	30.124	0	0	0.001	0	62.1	57	46.7	60.7	10.59	0.0758	23	1	100	1
9/20/2012	9:53 PM	63.8	63.8	63.8	77	56.4	0	SSE	0	1	SSE	63.8	64	64	30.125	0	0	0.001	0	61.9	58	47	60.6	10.75	0.0758	23	1	100	1
9/20/2012	9:54 PM	63.8	63.8	63.8	77	56.4	0	SSE	0	1	SSE	63.8	64	64	30.124	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	23	1	100	1
9/20/2012	9:55 PM	63.8	63.8	63.8	77	56.4	0	SSE	0	1	SSE	63.8	64	64	30.124	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	23	1	100	1
9/20/2012	9:56 PM	63.8	63.8	63.8	77	56.4	1	SSE	0.02	3	SSE	63.8	64	64	30.124	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	23	1	100	1
9/20/2012	9:57 PM	63.8	63.8	63.7	77	56.4	0	SSE	0	1	SSE	63.8	64	64	30.124	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	23	1	100	1
9/20/2012	9:58 PM	63.8	63.8	63.7	77	56.4	2	SSE	0.03	6	SSE	63.8	64	64	30.122	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	23	1	100	1
9/20/2012	9:59 PM	63.7	63.7	63.7	77	56.4	3	SSE	0.05	7	SSE	63.7	63.9	63.9	30.124	0	0	0.001	0	61.9	57	46.5	60.5	10.59	0.0758	22	1	95.7	1
9/20/2012	10:00 PM	63.7	63.7	63.7	77	56.4	1	SE	0.02	5	SE	63.7	63.9	63.9	30.125	0	0	0.001	0	61.8	57	46.4	60.4	10.59	0.0758	23	1	100	1
9/20/2012	10:01 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	4	SE	63.7	63.9	63.9	30.124	0	0	0.001	0	61.8	57	46.4	60.4	10.59	0.0758	23	1	100	1
9/20/2012	10:02 PM	63.7	63.7	63.7	77	56.4	3	ESE	0.05	5	ESE	63.7	63.9	63.9	30.125	0	0	0.001	0	61.8	58	46.9	60.5	10.75	0.0758	23	1	100	1
9/20/2012	10:03 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	5	SE	63.7	63.9	63.9	30.123	0	0	0.001	0	61.8	58	46.9	60.5	10.75	0.0758	22	1	95.7	1
9/20/2012	10:04 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	3	SE	63.7	63.9	63.9	30.122	0	0	0.001	0	61.8	58	46.9	60.5	10.75	0.0758	22	1	95.7	1
9/20/2012	10:05 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	4	SE	63.7	63.9	63.9	30.121	0	0	0.001	0	61.8	58	46.9	60.5	10.75	0.0758	24	1	100	1
9/20/2012	10:06 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	2	SE	63.7	63.9	63.9	30.123	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	22	1	95.7	1
9/20/2012	10:07 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	4	SE	63.7	63.9	63.9	30.123	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	24	1	100	1
9/20/2012	10:08 PM	63.7	63.7	63.7	77	56.4	4	SE	0.07	6	SE	63.7	63.9	63.9	30.123	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	23	1	100	1
9/20/2012	10:09 PM	63.7	63.7	63.7	77	56.4	2	SE	0.03	4	SE	63.7	63.9	63.9	30.124	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	24	1	100	1
9/20/2012	10:10 PM	63.7	63.7	63.7	78	56.7	2	SE	0.03	3	SE	63.7	64	64	30.123	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	23	1	100	1
9/20/2012	10:11 PM	63.7	63.7	63.7	78	56.7	0	SE	0	1	SE	63.7	64	64	30.123	0	0	0.001	0	61.6	58	46.7	60.3	10.75	0.0758	23	1	100	1
9/20/2012	10:12 PM	63.7	63.7	63.6	78	56.7	3	SE	0.05	4	SE	63.7	64	64	30.123	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	24	1	100	1
9/20/2012	10:13 PM	63.6	63.6	63.6	78	56.6	1	SE	0.02	3	SE	63.6	63.9	63.9	30.123	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	23	1	100	1
9/20/2012	10:14 PM	63.6	63.6	63.6	78	56.6	2	SE	0.03	4	SE	63.6	63.9	63.9	30.122	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	24	1	100	1
9/20/2012	10:15 PM	63.6	63.6	63.6	78	56.6	1	SE	0.02	2	SE	63.6	63.9	63.9	30.122	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	23	1	100	1
9/20/2012	10:16 PM	63.6	63.6	63.5	78	56.6	1	SE	0.02	2	SE	63.6	63.9	63.9	30.121	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	23	1	100	1
9/20/2012	10:17 PM	63.5	63.6	63.5	78	56.5	1	SE	0.02	3	SE	63.5	63.7	63.7	30.121	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	24	1	100	1
9/20/2012	10:18 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	22	1	95.7	1
9/20/2012	10:19 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:20 PM	63.5	63.5	63.5	78	56.5	2	SE	0.03	4	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	23	1	100	1
9/20/2012	10:21 PM	63.5	63.5	63.4	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:22 PM	63.5	63.5	63.4	78	56.5	2	SE	0.03	3	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:23 PM	63.4	63.5	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:24 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:25 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.125	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23

Meteorological Data
Equity IRM

9/20/2012	11:46 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:47 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:48 PM	63.1	63.1	63	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:49 PM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.131	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:50 PM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:51 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/20/2012	11:52 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:53 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:54 PM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:55 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:56 PM	63	63.1	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:57 PM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/20/2012	11:58 PM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/20/2012	11:59 PM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:00 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.13	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:01 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	12:02 AM	63	63	63	80	56.7	0	SE	0	3	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:03 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:04 AM	63	63	63	80	56.7	0	SE	0	3	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:05 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:06 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:07 AM	63	63	63	80	56.7	1	SE	0.02	1	SE	63	63.3	63.3	30.126	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:08 AM	63	63	63	80	56.7	2	SE	0.03	3	SE	63	63.3	63.3	30.126	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	21	1	91.3	1
9/21/2012	12:09 AM	63	63	63	80	56.7	1	SE	0.02	3	SE	63	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:10 AM	63	63.1	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:11 AM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:12 AM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:13 AM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:14 AM	63	63	63	80	56.7	1	SE	0.02	3	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:15 AM	63.1	63.1	63	80	56.8	1	SE	0.02	1	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:16 AM	63.1	63.1	63	80	56.8	1	SE	0.02	4	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:17 AM	63.1	63.1	63.1	80	56.8	2	SE	0.03	4	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:18 AM	63.1	63.1	63.1	80	56.8	1	SE	0.02	4	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	12:19 AM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.124	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:20 AM	63.1	63.1	63.1	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.122	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	12:21 AM	63.1	63.1	63	80	56.8	0	SE	0	2	SE	63.1	63.4	63.4	30.122	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	12:22 AM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	12:23 AM	63	63.1	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.125	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:24 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:25 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:26 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.125	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:27 AM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:28 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:29 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.125	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:30 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:31 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:32 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:33 AM	63	63	62.9	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:34 AM	63	63	62.9	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:35 AM	62.9	63	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:36 AM	62.9	63	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:37 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:38 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:39 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:40 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:41 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:42 AM	62.9	62.9	62.9	80	56.6	0	---	0	0	---	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:43 AM	62.9	62.9	62.9	80	56.6	0	---	0	0	---	62.9	63.2	63.2	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:44 AM	62.9	62.9	62.9	80	56.6	0	---	0	0	---	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:45 AM	62.9	62.9	62.9	80	56.6	0	---	0	0	---	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:46 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	3	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:47 AM	62.9	62.9	62.9	80	56.6	2	SE	0.03	3	SE	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:48 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:49 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:50 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:51 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:52 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	1	SE	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:53 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:54 AM	62.9	62.9	62.9	80	56.6	0	SE	0	2	SE	62.9	63.2	63.2	30.116	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:55 AM	62.8	62.9	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.118	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	12:56 AM	62.8	62.9	62.8	80	56.5	1	SE	0.02	2	SE	62.8	63.1	63.1	30.119	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	21	1	91.3	1
9/21/2012	12:57 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	2	SE	62.8	63.1	63.1	30.12	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	12:58 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	4	SE	62.8	63.1	63.1	30.123	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	12:59 AM	62.8	62.8	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.12	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:00 AM	62.8	62.8	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.121	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:01 AM	62.8	62.8	62.8	80	56.5	0	---	0	0	---	62.8	63.1	63.1	30.122	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:02 AM	62.8	62.8	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:03 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	3	SE	62.8	63.1	63.1	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:04 AM	62.7	62.8	62.7	80	56.4	1	SE	0.02	2	SE	62.7	63	63	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:05 AM	62.8	62.8	62.8	80	56.5	2	SE	0.03	2	SE	62.8	63.1	63.1	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:06 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	2	SE	62.8	63.1	63.1	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:07 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	2	SE	62.8	63.1	63.1	30.126	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:08 AM	62.8	62.8	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.125	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:09 AM	62.8	62.8	62.8	80	56.5	1	SE	0.02	2	SE	62.8	63.1	63.1	30.124	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:10 AM	62.8	62.9	62.8	80	56.5	1	SE	0.02	1	SE	62.8	63.1	63.1	30.123	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:11 AM	62.8	62.9	62.8	80	56.5	0	SE	0	1	SE	62.8	63.1	63.1	30.122	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:12 AM	62.9	62.9	62.8	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:13 AM	62.9	62.9	62.9	80	56.6	0	SE	0	2	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:14 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	3	SE	62.9	63.2	63.2	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:15 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	3	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:16 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:17 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:18 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:19 AM	63	63	62.9	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:20 AM	63	63	62.9	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:21 AM	63	63	63	80	56.7	1	SE	0.02	3	SE	63	63.3	63.3	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:22 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:23 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:24 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:25 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:26 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:27 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:28 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:

Meteorological Data
Equity IRM

9/21/2012	2:46 AM	63.3	63.3	63.3	78	56.3	0	ESE	0	1	ESE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:47 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:48 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:49 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:50 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:51 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:52 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:53 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:54 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:55 AM	63.2	63.3	63.2	77	55.9	1	SE	0.02	2	SE	63.2	63.3	63.3	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:56 AM	63.2	63.3	63.2	78	56.2	0	SE	0	2	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:57 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:58 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	4	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:59 AM	63.2	63.2	63.2	77	55.9	2	SE	0.03	5	SE	63.2	63.3	63.3	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:00 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	5	ESE	63.2	63.4	63.4	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:01 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:02 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	3:03 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.102	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:04 AM	63.2	63.2	63.2	78	56.2	0	---	0	0	---	63.2	63.4	63.4	30.101	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:05 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.101	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:06 AM	63.2	63.2	63.2	78	56.2	2	SE	0.03	3	SE	63.2	63.4	63.4	30.101	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:07 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	3	SE	63.2	63.4	63.4	30.102	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:08 AM	63.2	63.2	63.2	77	55.9	1	SE	0.02	3	SE	63.2	63.3	63.3	30.102	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:09 AM	63.2	63.2	63.1	77	55.9	2	SE	0.03	3	SE	63.2	63.3	63.3	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:10 AM	63.1	63.2	63.1	78	56.1	2	SE	0.03	4	SE	63.1	63.3	63.3	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:11 AM	63.2	63.2	63.1	77	55.9	2	SE	0.03	3	SE	63.2	63.3	63.3	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:12 AM	63.1	63.2	63.1	77	55.8	1	SE	0.02	2	SE	63.1	63.2	63.2	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:13 AM	63.1	63.1	63.1	78	56.1	1	SE	0.02	1	SE	63.1	63.3	63.3	30.103	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:14 AM	63.1	63.1	63.1	78	56.1	0	SE	0	1	SE	63.1	63.3	63.3	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	3:15 AM	63.1	63.1	63.1	78	56.1	0	SE	0	1	SE	63.1	63.3	63.3	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:16 AM	63.1	63.1	63.1	78	56.1	0	SE	0	1	SE	63.1	63.3	63.3	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	3:17 AM	63.1	63.1	63.1	78	56.1	0	---	0	0	---	63.1	63.3	63.3	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:18 AM	63.1	63.1	63	78	56.1	0	SE	0	1	SE	63.1	63.3	63.3	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	3:19 AM	63	63.1	63	78	56	0	SE	0	2	SE	63	63.1	63.1	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:20 AM	63	63	63	78	56	0	---	0	0	---	63	63.1	63.1	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	3:21 AM	63	63	63	78	56	0	---	0	0	---	63	63.1	63.1	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	21	1	91.3	1
9/21/2012	3:22 AM	63	63	63	78	56	0	---	0	0	---	63	63.1	63.1	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	3:23 AM	63	63	63	78	56	1	SE	0.02	2	SE	63	63.1	63.1	30.106	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	3:24 AM	62.9	63	62.9	78	55.9	1	SE	0.02	2	SE	62.9	63	63	30.108	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	3:25 AM	62.9	63	62.9	78	55.9	1	SE	0.02	3	SE	62.9	63	63	30.108	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	3:26 AM	62.9	62.9	62.9	78	55.9	0	SE	0	1	SE	62.9	63	63	30.106	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	3:27 AM	62.9	62.9	62.9	78	55.9	1	SE	0.02	3	SE	62.9	63	63	30.108	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	3:28 AM	62.8	62.9	62.8	78	55.8	0	SE	0	1	SE	62.8	62.9	62.9	30.106	0	0	0.002	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	3:29 AM	62.8	62.8	62.8	78	55.8	0	SE	0	1	SE	62.8	62.9	62.9	30.105	0	0	0.002	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	3:30 AM	62.8	62.8	62.8	78	55.8	0	SE	0	1	SE	62.8	62.9	62.9	30.107	0	0	0.002	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	3:31 AM	62.8	62.8	62.8	78	55.8	1	SE	0.02	3	SE	62.8	62.9	62.9	30.106	0	0	0.002	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	3:32 AM	62.8	62.8	62.7	78	55.8	1	SE	0.02	2	SE	62.8	62.9	62.9	30.107	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	24	1	100	1
9/21/2012	3:33 AM	62.7	62.7	62.7	78	55.7	0	SE	0	1	SE	62.7	62.8	62.8	30.106	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	3:34 AM	62.7	62.7	62.7	79	56.1	0	SE	0	1	SE	62.7	62.9	62.9	30.105	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	24	1	100	1
9/21/2012	3:35 AM	62.7	62.7	62.7	79	56.1	1	SE	0.02	2	SE	62.7	62.9	62.9	30.106	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	3:36 AM	62.7	62.7	62.7	79	56.1	2	SE	0.03	4	SE	62.7	62.9	62.9	30.105	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	3:37 AM	62.7	62.7	62.7	79	56.1	1	SE	0.02	2	SE	62.7	62.9	62.9	30.105	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	21	1	91.3	1
9/21/2012	3:38 AM	62.7	62.7	62.6	79	56.1	1	SE	0.02	2	SE	62.7	62.9	62.9	30.104	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	3:39 AM	62.6	62.7	62.6	79	56	0	SE	0	1	SE	62.6	62.8	62.8	30.104	0	0	0.002	0	59.7	58	44.9	58.3	10.75	0.0761	24	1	100	1
9/21/2012	3:40 AM	62.6	62.6	62.6	79	56	0	SE	0	1	SE	62.6	62.8	62.8	30.105	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	23	1	100	1
9/21/2012	3:41 AM	62.6	62.6	62.6	79	56	1	SE	0.02	2	SE	62.6	62.8	62.8	30.104	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	23	1	100	1
9/21/2012	3:42 AM	62.6	62.6	62.6	79	56	1	SE	0.02	2	SE	62.6	62.8	62.8	30.104	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	23	1	100	1
9/21/2012	3:43 AM	62.6	62.6	62.6	79	56	2	SE	0.03	2	SE	62.6	62.8	62.8	30.103	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	22	1	95.7	1
9/21/2012	3:44 AM	62.5	62.6	62.5	79	55.9	1	SE	0.02	1	SE	62.5	62.7	62.7	30.105	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	24	1	100	1
9/21/2012	3:45 AM	62.5	62.6	62.5	79	55.9	1	SE	0.02	3	SE	62.5	62.7	62.7	30.104	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	23	1	100	1
9/21/2012	3:46 AM	62.5	62.5	62.5	79	55.9	1	SE	0.02	2	SE	62.5	62.7	62.7	30.103	0	0	0.002	0	59.6	58	44.8	58.2	10.75	0.0761	24	1	100	1
9/21/2012	3:47 AM	62.5	62.5	62.5	79	55.9	0	SE	0	1	SE	62.5	62.7	62.7	30.103	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	3:48 AM	62.5	62.5	62.5	79	55.9	0	SE	0	1	SE	62.5	62.7	62.7	30.103	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	3:49 AM	62.5	62.5	62.5	79	55.9	2	SE	0.03	3	SE	62.5	62.7	62.7	30.103	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	3:50 AM	62.4	62.5	62.4	79	55.8	1	SE	0.02	2	SE	62.4	62.6	62.6	30.102	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	3:51 AM	62.4	62.4	62.4	79	55.8	1	SE	0.02	3	SE	62.4	62.6	62.6	30.1	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	3:52 AM	62.4	62.4	62.4	79	55.8	0	SE	0	1	SE	62.4	62.6	62.6	30.099	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	3:53 AM	62.4	62.4	62.3	79	55.8	0	SE	0	1	SE	62.4	62.6	62.6	30.097	0	0	0.002	0	59.4	58	44.6	58	10.75	0.0761	24	1	100	1
9/21/2012	3:54 AM	62.3	62.4	62.3	79	55.7	0	SE	0	1	SE	62.3	62.4	62.4	30.095	0	0	0.002	0	59.3	58	44.5	57.9	10.75	0.0762	23	1	100	1
9/21/2012	3:55 AM	62.3	62.3	62.3	79	55.7	0	SE	0	1	SE	62.3	62.4	62.4	30.096	0	0	0.002	0	59.3	58	44.5	57.9	10.75	0.0762	22	1	95.7	1
9/21/2012	3:56 AM	62.3	62.3	62.3	79	55.7	0	SE	0	1	SE	62.3	62.4	62.4	30.097	0	0	0.002	0	59.3	58	44.5	57.9	10.75	0.0762	24	1	100	1
9/21/2012	3:57 AM	62.3	62.3	62.3	79	55.7	0	SE	0	1	SE	62.3	62.4	62.4	30.096	0	0	0.002	0	59.3	59	45	57.9	10.95	0.0762	23	1	100	1
9/21/2012	3:58 AM	62.3	62.3	62.3	79	55.7	1	SE	0.02	4	SE	62.3	62.4	62.4	30.096	0	0	0.002	0	59.3	59	45	57.9	10.95	0.0762	24	1	100	1
9/21/2012	3:59 AM	62.2	62.3	62.2	79	55.6	0	---	0	0	---	62.2	62.3	62.3	30.095	0	0	0.002	0	59.3	59	45	57.9	10.95	0.0761	22	1	95.7	1
9/21/2012	4:00 AM	62.2	62.3	62.2	79	55.6	0	SE	0	1	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.3	59	45	57.9	10.95	0.0761	24	1	100	1
9/21/2012	4:01 AM	62.2	62.2	62.2	79	55.6	0	SE	0	1	SE	62.2	62.3	62.3	30.094	0	0	0.002	0	59.3	59	45	57.9	10.95	0.0761	23	1	100	1
9/21/2012	4:02 AM	62.2	62.2	62.2	79	55.6	0	SE	0	1	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	23	1	100	1
9/21/2012	4:03 AM	62.2	62.2	62.2	79	55.6	1	SE	0.02	2	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	24	1	100	1
9/21/2012	4:04 AM	62.2	62.2	62.2	79	55.6	0	SE	0	1	SE	62.2	62.3	62.3	30.094	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	23	1	100	1
9/21/2012	4:05 AM	62.2	62.2	62.2	79	55.6	1	SE	0.02	3	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	24	1	100	1
9/21/2012	4:06 AM	62.2	62.2	62.2	79	55.6	1	SE	0.02	2	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	23	1	100	1
9/21/2012	4:07 AM	62.1	62.2	62.1	79	55.5	0	SE	0	2	SE	62.1	62.2	62.2	30.093	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	23	1	100	1
9/21/2012	4:08 AM	62.2	62.2	62.1	79	55.6	2	SE	0.03	4	SE	62.2	62.3	62.3	30.095	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	20	1	87	1
9/21/2012	4:09 AM	62.1	62.2	62.1	79	55.5	1	SE	0.02	2	SE	62.1	62.2	62.2	30.096	0	0	0.002	0	59.1	59	44.8	57.7	10.95	0.0762	23	1	100	1
9/21/2012	4:10 AM	62.1	62.1	62.1	79	55.5	1	SE	0.02	2	SE	62.1	62.2	62.2	30.096	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	23	1	100	1
9/21/2012	4:11 AM	62.1	62.1	62.1	79	55.5	1	SE	0.02	2	SE	62.1	62.2	62.2	30.094	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:12 AM	62.1	62.1	62.1	79	55.5	1	SE	0.02	2	SE	62.1	62.2	62.2	30.093	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	23	1	100	1
9/21/2012	4:13 AM	62.1	62.1	62.1	79	55.5	0	SE	0	1	SE	62.1	62.2	62.2	30.093	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:14 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.094	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:15 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.093	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	23	1	100	1
9/21/2012	4:16 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.094	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:17 AM	62	62.1	62	79	55.4	0	---	0	0	---	62	62.1	62.1	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	22	1	95.7	1
9/21/2012	4:18 AM	62	62.1	62	79	55.4	0	---	0	0	---	62	62.1	62.1	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:19 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	22	1	95.7	1
9/21/2012	4:20 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:21 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:22 AM	62	62	62	80	55.8	0	SE	0	1	SE	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:23 AM	61.9	62	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:24 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.092	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:25 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	24	1	100	1
9/21/2012	4:26 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:27 AM	61.8	61.8	61.8	79	55.2	0	---	0

Meteorological Data
Equity IRM

9/21/2012	5:46 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:47 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	59	43.1	55.9	10.95	0.0765	23	1	100	1
9/21/2012	5:48 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:49 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:50 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:51 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:52 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:53 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.099	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:54 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:55 AM	61.5	61.5	61.4	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	60	43.3	55.8	11.09	0.0765	23	1	100	1
9/21/2012	5:56 AM	61.5	61.5	61.5	80	55.3	0	SE	0	2	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	5:57 AM	61.5	61.5	61.5	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.101	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	21	1	91.3	1
9/21/2012	5:58 AM	61.6	61.6	61.5	80	55.4	0	SE	0	1	SE	61.6	61.7	61.7	30.1	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	5:59 AM	61.6	61.6	61.6	80	55.4	0	SE	0	1	SE	61.6	61.7	61.7	30.1	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:00 AM	61.7	61.7	61.6	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.1	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:01 AM	61.8	61.8	61.7	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.099	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	21	1	91.3	1
9/21/2012	6:02 AM	61.8	61.8	61.8	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:03 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:04 AM	61.9	61.9	61.8	79	55.3	0	SE	0	1	SE	61.9	62	62	30.096	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:05 AM	61.9	61.9	61.9	79	55.3	1	SE	0.02	2	SE	61.9	62	62	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:06 AM	61.9	61.9	61.9	79	55.3	0	SE	0	1	SE	61.9	62	62	30.096	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:07 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:08 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:09 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:10 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	21	1	91.3	1
9/21/2012	6:11 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	6:12 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	21	1	91.3	1
9/21/2012	6:13 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	6:14 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:15 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.1	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	24	1	100	1
9/21/2012	6:16 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	22	1	95.7	1
9/21/2012	6:17 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:18 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.097	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:19 AM	61.7	61.8	61.7	80	55.5	0	---	0	0	---	61.7	61.8	61.8	30.098	0	0	0.002	0	57.1	59	42.9	55.7	10.95	0.0765	23	1	100	1
9/21/2012	6:20 AM	61.7	61.8	61.7	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.099	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:21 AM	61.7	61.7	61.7	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.097	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:22 AM	61.7	61.7	61.7	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.098	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:23 AM	61.6	61.7	61.6	80	55.4	0	SE	0	1	SE	61.6	61.7	61.7	30.099	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:24 AM	61.6	61.7	61.6	80	55.4	0	SE	0	1	SE	61.6	61.7	61.7	30.099	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:25 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.1	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	22	1	95.7	1
9/21/2012	6:26 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.098	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:27 AM	61.6	61.6	61.5	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.099	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	24	1	100	1
9/21/2012	6:28 AM	61.5	61.6	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.1	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	23	1	100	1
9/21/2012	6:29 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.1	0	0	0.002	0	57	59	42.8	55.6	10.95	0.0766	22	1	95.7	1
9/21/2012	6:30 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.1	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0765	24	1	100	1
9/21/2012	6:31 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.101	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	22	1	95.7	1
9/21/2012	6:32 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.102	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	24	1	100	1
9/21/2012	6:33 AM	61.5	61.5	61.5	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.102	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	23	1	100	1
9/21/2012	6:34 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.102	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	22	1	95.7	1
9/21/2012	6:35 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.103	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	24	1	100	1
9/21/2012	6:36 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.102	0	0	0.002	0	57	60	43.2	55.7	11.09	0.0766	22	1	95.7	1
9/21/2012	6:37 AM	61.5	61.5	61.5	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.102	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:38 AM	61.5	61.5	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.102	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:39 AM	61.5	61.5	61.5	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:40 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:41 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:42 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:43 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:44 AM	61.4	61.4	61.4	81	55.5	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:45 AM	61.4	61.4	61.4	81	55.5	0	---	0	0	---	61.4	61.5	61.5	30.106	0	0	0.002	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:46 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.8	59	42.6	55.4	10.95	0.0766	23	1	100	1
9/21/2012	6:47 AM	61.3	61.3	61.3	81	55.4	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:48 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.105	0	0	0.003	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:49 AM	61.3	61.3	61.3	81	55.4	0	---	0	0	---	61.3	61.4	61.4	30.107	0	0	0.003	0	56.8	59	42.6	55.4	10.95	0.0766	24	1	100	1
9/21/2012	6:50 AM	61.3	61.3	61.3	81	55.4	0	---	0	0	---	61.3	61.4	61.4	30.105	0	0	0.003	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:51 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.8	60	43.1	55.5	11.09	0.0766	24	1	100	1
9/21/2012	6:52 AM	61.2	61.3	61.2	80	55	0	---	0	0	---	61.2	61.2	61.2	30.106	0	0	0.003	0	56.8	60	43.1	55.5	11.09	0.0766	23	1	100	1
9/21/2012	6:53 AM	61.3	61.3	61.2	80	55.1	1	SE	0.02	2	SE	61.3	61.4	61.4	30.106	0	0	0.003	0	56.7	60	43	55.4	11.08	0.0766	22	1	95.7	1
9/21/2012	6:54 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.7	60	43	55.4	11.08	0.0766	24	1	100	1
9/21/2012	6:55 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.7	59	42.5	55.3	10.95	0.0766	22	1	95.7	1
9/21/2012	6:56 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.106	0	0	0.003	0	56.7	59	42.5	55.3	10.95	0.0766	23	1	100	1
9/21/2012	6:57 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.107	0	0	0.003	0	56.7	59	42.5	55.3	10.95	0.0766	23	1	100	1
9/21/2012	6:58 AM	61.4	61.4	61.3	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.107	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	22	1	95.7	1
9/21/2012	6:59 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.109	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	24	1	100	1
9/21/2012	7:00 AM	61.4	61.4	61.4	80	55.2	1	SE	0.02	2	SE	61.4	61.5	61.5	30.109	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	22	1	95.7	1
9/21/2012	7:01 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.111	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	24	1	100	1
9/21/2012	7:02 AM	61.5	61.5	61.4	80	55.3	0	SE	0	1	SE	61.5	61.6	61.6	30.112	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	22	1	95.7	1
9/21/2012	7:03 AM	61.5	61.5	61.5	79	54.9	2	SE	0.03	4	SE	61.5	61.5	61.5	30.112	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	23	1	100	1
9/21/2012	7:04 AM	61.6	61.6	61.5	79	55	1	SE	0.02	2	SE	61.6	61.6	61.6	30.111	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	23	1	100	1
9/21/2012	7:05 AM	61.6	61.6	61.6	79	55	0	SE	0	1	SE	61.6	61.6	61.6	30.111	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	22	1	95.7	1
9/21/2012	7:06 AM	61.6	61.6	61.6	79	55	1	SE	0.02	2	SE	61.6	61.6	61.6	30.112	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	24	1	100	1
9/21/2012	7:07 AM	61.7	61.7	61.6	79	55.1	1	SE	0.02	2	SE	61.7	61.8	61.8	30.11	0	0	0.002	0	56.7	59	42.5	55.3	10.95	0.0766	23	1	100	1
9/21/2012	7:08 AM	61.7	61.7	61.6	79	55.1	2	SE	0.03	3	SE	61.7	61.8	61.8	30.112	0	0	0.002	0	56.7	60	43	55.4	11.08	0.0766	24	1	100	1
9/21/2012	7:09 AM	61.7	61.7	61.7	79	55.1	2	SE	0.03	4	SE	61.7	61.8	61.8	30.112	0	0	0.002	0	56.7	61	43.4	55.5	11.25	0.0766	23	1	100	1
9/21/2012	7:10 AM	61.8	61.8	61.7	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.113	0	0	0.002	0	56.8	61	43.5	55.6	11.25	0.0766	23	1	100	1
9/21/2012	7:11 AM	61.8	61.8	61.8	79	55.2	0	SE	0	2	SE	61.8	61.9	61.9	30.113	0	0	0.002	0	56.8	62	43.9	55.6	11.51	0.0766	24	1	100	1
9/21/2012	7:12 AM	61.8	61.8	61.8	78	54.9	1	SE	0.02	3	SE	61.8	61.8	61.8	30.113	0	0	0.002	0	56.8	63	44.3	55.7	11.71	0.0766	23	1	100	1
9/21/2012	7:13 AM	61.8	61.8	61.8	78	54.9	2	SE	0.03	3	SE	61.8	61.8	61.8	30.113	0	0	0.002	0	56.8	63	44.3	55.7	11.71	0.0766	23	1	100	1
9/21/2012	7:14 AM	61.9	61.9	61.8	78	55	1	SE	0.02	3	SE	61.9	61.9	61.9	30.113	0	0	0.002	0	57	63	44.5	55.9	11.71	0.0765	23	1	100	1
9/21/2012	7:15 AM	61.9	62	61.9	78	55	1	SE	0.02	2	SE	61.9	61.9	61.9	30.114	0	0	0.002	0	57	63	44.5	55.9	11.71	0.0765	23	1	100	1
9/21/2012	7:16 AM	62	62	61.9	78	55.1	1	SE	0.02	2	SE	62	62	62	30.113	0	0	0.002	0	57	64	44.9	55.9	11.97	0.0765	24	1	100	1
9/21/2012	7:17 AM	62	62	62	78	55.1	1	SE	0.02	3	SE	62	62	62	30.114	0	0	0.002	0	57.1	66	45.8	56.1	12.41	0.0765	23	1	100	1
9/21/2012	7:18 AM	62.1	62.1	62	77	54.8	1	SE	0.02	3	SE	62.1	62.1	62.1	30.112	0	0	0.002	0	57.1	65	45.4	56.1	12.17	0.0765	24	1	100	1
9/21/2012	7:19 AM	62.1	62.1	62	77	54.8	1	SE	0.02	4	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.3	65	45.6	56.3	12.16	0.0765	23	1	100	1
9/21/2012	7:20 AM	62.1	62.1	62.1	77	54.8	0	SE	0	1	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	24	1	100	1
9/21/2012	7:21 AM	62.1	62.1	62.1	77	54.8	0	---	0	0	---	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	23	1	100	1
9/21/2012	7:22 AM	62.2	62.2	62.1	77	54.9	0	---	0	0	---	62.2	62.2	62.2	30.113	0	0	0.002	0	57.6	64	45.5	56.5	11.95	0.0764	22	1	95.7	1
9/21/2012	7:23 AM	62.2	62.2	62.1	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.112	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	24	1	100	1
9/21/2012	7:24 AM	62.2	62.2	62.2	77	54.9	1	SE	0.02	1	SE	62.2	62.2	62.2	30.114	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	23	1	100	1
9/21/2012	7:25 AM	62.2	62.2	62.2	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.115	0	0	0.002	0	57.9	64	45.8	56.8	11.93	0.0764	24	1	100	1
9/21/2012	7:26 AM	62.3	62.3	62.2	77	55	1	SE	0.02	1	SE	62.3	62.3	62.3	30.116	0	0	0.002	0	58.1	68	47.6	57.2	12.83	0.0763	23	1	100	1
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Meteorological Data
Equity IRM

9/21/2012	8:46 AM	64.7	64.7	64.7	70	54.7	2	ESE	0.03	3	ESE	64.7	64.6	64.6	30.115	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	22	1	95.7	1
9/21/2012	8:47 AM	64.7	64.7	64.7	70	54.7	2	E	0.03	5	E	64.7	64.6	64.6	30.114	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	23	1	100	1
9/21/2012	8:48 AM	64.8	64.8	64.7	70	54.8	2	E	0.03	3	E	64.8	64.8	64.8	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	23	1	100	1
9/21/2012	8:49 AM	64.8	64.8	64.8	69	54.4	3	E	0.05	6	E	64.8	64.7	64.7	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	22	1	95.7	1
9/21/2012	8:50 AM	64.9	64.9	64.8	70	54.9	2	E	0.03	5	E	64.9	64.9	64.9	30.117	0	0	0	0	65.3	63	52.4	64.8	11.64	0.0751	24	1	100	1
9/21/2012	8:51 AM	64.9	64.9	64.9	69	54.5	2	E	0.03	3	ESE	64.9	64.8	64.8	30.118	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	22	1	95.7	1
9/21/2012	8:52 AM	65	65	64.9	69	54.6	2	ESE	0.03	3	ESE	65	64.9	64.9	30.117	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	24	1	100	1
9/21/2012	8:53 AM	65.1	65.1	65	69	54.7	3	ESE	0.05	4	ESE	65.1	65.1	65.1	30.115	0	0	0	0	65.6	63	52.7	65.2	11.64	0.075	23	1	100	1
9/21/2012	8:54 AM	65.2	65.2	65.1	69	54.8	3	ESE	0.05	4	ESE	65.2	65.2	65.2	30.117	0	0	0	0	65.8	63	52.9	65.4	11.63	0.075	23	1	100	1
9/21/2012	8:55 AM	65.2	65.2	65.2	69	54.8	1	ESE	0.02	2	ESE	65.2	65.2	65.2	30.116	0	0	0	0	65.8	63	52.9	65.4	11.63	0.075	23	1	100	1
9/21/2012	8:56 AM	65.3	65.3	65.2	69	54.9	1	ESE	0.02	4	ESE	65.3	65.3	65.3	30.118	0	0	0	0	65.9	63	52.9	65.5	11.63	0.075	23	1	100	1
9/21/2012	8:57 AM	65.4	65.4	65.4	69	55	3	ESE	0.05	5	ESE	65.4	65.4	65.4	30.115	0	0	0	0	66.1	63	53.1	65.7	11.63	0.0749	24	1	100	1
9/21/2012	8:58 AM	65.5	65.5	65.5	69	55.1	1	ESE	0.02	3	ESE	65.5	65.5	65.5	30.117	0	0	0	0	66.1	62	52.7	65.6	11.43	0.075	23	1	100	1
9/21/2012	8:59 AM	65.6	65.6	65.5	68	54.8	1	ESE	0.02	2	ESE	65.6	65.6	65.6	30.118	0	0	0	0	66.2	62	52.8	65.7	11.43	0.0749	24	1	100	1
9/21/2012	9:00 AM	65.7	65.7	65.6	68	54.8	2	ESE	0.03	3	ESE	65.7	65.7	65.7	30.119	0	0	0	0	66.4	62	53	66	11.42	0.0749	23	1	100	1
9/21/2012	9:01 AM	65.8	65.8	65.7	68	54.9	3	ESE	0.05	5	ESE	65.8	65.8	65.8	30.116	0	0	0	0.001	66.6	62	53.2	66.2	11.42	0.0749	23	1	100	1
9/21/2012	9:02 AM	65.8	65.8	65.8	67	54.5	2	ESE	0.03	2	ESE	65.8	65.7	65.7	30.118	0	0	0	0.001	66.6	62	53.2	66.2	11.42	0.0749	24	1	100	1
9/21/2012	9:03 AM	65.9	65.9	65.8	68	55	1	ESE	0.02	3	ESE	65.9	65.9	65.9	30.117	0	0	0	0.001	66.7	62	53.3	66.3	11.42	0.0749	23	1	100	1
9/21/2012	9:04 AM	65.9	65.9	65.9	68	55	3	ESE	0.05	3	ESE	65.9	65.9	65.9	30.116	0	0	0	0.001	66.9	62	53.5	66.6	11.41	0.0748	23	1	100	1
9/21/2012	9:05 AM	65.9	65.9	65.9	67	54.6	1	ESE	0.02	2	ESE	65.9	65.8	65.8	30.114	0	0	0	0.001	67	62	53.5	66.7	11.41	0.0748	23	1	100	1
9/21/2012	9:06 AM	65.9	65.9	65.9	68	55	1	ESE	0.02	3	ESE	65.9	65.9	65.9	30.114	0	0	0	0.001	67	62	53.5	66.7	11.41	0.0748	24	1	100	1
9/21/2012	9:07 AM	66	66	65.9	68	55.1	1	ESE	0.02	2	ESE	66	66	66	30.114	0	0	0	0.001	67.2	62	53.7	66.9	11.41	0.0748	23	1	100	1
9/21/2012	9:08 AM	66.2	66.2	66.1	67	54.9	4	ESE	0.07	7	ESE	66.2	66.2	66.2	30.114	0	0	0	0.001	67.4	62	53.9	67.2	11.4	0.0747	23	1	100	1
9/21/2012	9:09 AM	66.2	66.2	66.2	67	54.9	3	E	0.05	5	E	66.2	66.2	66.2	30.115	0	0	0	0.001	67.5	62	54	67.3	11.4	0.0747	24	1	100	1
9/21/2012	9:10 AM	66.1	66.2	66.1	67	54.8	2	E	0.03	3	E	66.1	66.1	66.1	30.115	0	0	0	0.001	67.7	61	53.8	67.4	11.25	0.0747	23	1	100	1
9/21/2012	9:11 AM	66.2	66.2	66.1	67	54.9	3	E	0.05	5	ESE	66.2	66.2	66.2	30.117	0	0	0	0.001	67.9	61	54	67.7	11.25	0.0747	24	1	100	1
9/21/2012	9:12 AM	66.2	66.2	66.2	67	54.9	3	ESE	0.05	7	ESE	66.2	66.2	66.2	30.118	0	0	0	0.001	68	61	54	67.8	11.25	0.0746	23	1	100	1
9/21/2012	9:13 AM	66.3	66.3	66.2	67	55	2	SE	0.03	6	SE	66.3	66.3	66.3	30.117	0	0	0	0.001	68.2	61	54.2	67.9	11.25	0.0746	23	1	100	1
9/21/2012	9:14 AM	66.3	66.3	66.3	66	54.6	2	SE	0.03	4	ESE	66.3	66.2	66.2	30.116	0	0	0	0.001	68.4	61	54.4	68.1	11.25	0.0746	23	1	100	1
9/21/2012	9:15 AM	66.4	66.4	66.4	67	55.1	2	SE	0.03	3	SE	66.4	66.4	66.4	30.116	0	0	0	0.001	68.5	61	54.5	68.1	11.25	0.0746	23	1	100	1
9/21/2012	9:16 AM	66.5	66.5	66.4	66	54.8	3	SE	0.05	5	SE	66.5	66.5	66.5	30.117	0	0	0	0.001	68.7	61	54.7	68.3	11.25	0.0745	24	1	100	1
9/21/2012	9:17 AM	66.5	66.5	66.5	67	55.2	4	SE	0.07	7	SE	66.5	66.6	66.6	30.114	0	0	0	0.001	68.9	61	54.9	68.4	11.25	0.0745	23	1	100	1
9/21/2012	9:18 AM	66.6	66.6	66.5	66	54.9	2	ESE	0.03	3	ESE	66.6	66.6	66.6	30.114	0	0	0	0.001	69	61	55	68.5	11.25	0.0745	24	1	100	1
9/21/2012	9:19 AM	66.7	66.7	66.6	66	55	1	ESE	0.02	3	ESE	66.7	66.7	66.7	30.114	0	0	0	0.001	69.2	60	54.7	68.6	11.05	0.0744	23	1	100	1
9/21/2012	9:20 AM	66.9	66.9	66.8	66	55.2	1	ESE	0.02	2	ESE	66.9	67	67	30.115	0	0	0	0.001	69.4	60	54.9	68.7	11.05	0.0744	23	1	100	1
9/21/2012	9:21 AM	67.1	67.1	66.9	66	55.4	2	ESE	0.03	3	ESE	67.1	67.2	67.2	30.114	0	0	0	0.001	69.4	60	54.9	68.7	11.05	0.0744	24	1	100	1
9/21/2012	9:22 AM	67.2	67.2	67.1	65	55	2	ESE	0.03	3	ESE	67.2	67.2	67.2	30.113	0	0	0	0.002	69.6	60	55.1	68.9	11.05	0.0744	23	1	100	1
9/21/2012	9:23 AM	67.2	67.2	67.2	65	55	2	E	0.03	5	E	67.2	67.2	67.2	30.111	0	0	0	0.002	69.7	60	55.2	69	11.05	0.0743	24	1	100	1
9/21/2012	9:24 AM	67.3	67.3	67.3	65	55.1	3	E	0.05	5	E	67.3	67.4	67.4	30.114	0	0	0	0.002	69.9	60	55.4	69.1	11.05	0.0743	23	1	100	1
9/21/2012	9:25 AM	67.4	67.4	67.4	65	55.2	1	E	0.02	2	E	67.4	67.5	67.5	30.116	0	0	0	0.002	70.1	60	55.6	69.3	11.05	0.0743	23	1	100	1
9/21/2012	9:26 AM	67.4	67.4	67.4	64	54.8	2	E	0.03	3	E	67.4	67.4	67.4	30.116	0	0	0	0.002	70.2	60	55.7	69.5	11.05	0.0743	24	1	100	1
9/21/2012	9:27 AM	67.3	67.4	67.3	64	54.7	1	E	0.02	3	E	67.3	67.3	67.3	30.116	0	0	0	0.002	70.4	59	55.4	69.6	10.93	0.0743	23	1	100	1
9/21/2012	9:28 AM	67.4	67.4	67.3	65	55.2	2	ESE	0.03	3	E	67.4	67.5	67.5	30.116	0	0	0	0.002	70.6	59	55.6	69.9	10.93	0.0742	24	1	100	1
9/21/2012	9:29 AM	67.3	67.4	67.3	64	54.7	2	E	0.03	5	E	67.3	67.3	67.3	30.116	0	0	0	0.002	70.6	59	55.6	69.9	10.93	0.0742	22	1	95.7	1
9/21/2012	9:30 AM	67.2	67.3	67.2	65	55	1	E	0.02	2	E	67.2	67.2	67.2	30.114	0	0	0	0.002	70.7	59	55.7	70	10.92	0.0742	23	1	100	1
9/21/2012	9:31 AM	67.2	67.2	67.2	65	55	1	E	0.02	2	E	67.2	67.2	67.2	30.116	0	0	0	0.002	70.9	59	55.9	70.3	10.91	0.0742	23	1	100	1
9/21/2012	9:32 AM	67.3	67.3	67.2	65	55.1	1	E	0.02	3	E	67.3	67.4	67.4	30.117	0	0	0	0.002	71.1	59	56	70.5	10.91	0.0741	22	1	95.7	1
9/21/2012	9:33 AM	67.4	67.4	67.3	65	55.2	1	E	0.02	3	E	67.4	67.5	67.5	30.114	0	0	0	0.002	71.1	59	56	70.5	10.91	0.0741	24	1	100	1
9/21/2012	9:34 AM	67.5	67.5	67.4	64	54.9	2	E	0.03	5	E	67.5	67.5	67.5	30.115	0	0	0	0.002	71.2	59	56.1	70.7	10.9	0.0741	22	1	95.7	1
9/21/2012	9:35 AM	67.5	67.5	67.5	64	54.9	4	E	0.07	7	SE	67.5	67.5	67.5	30.115	0	0	0	0.002	71.4	59	56.3	71	10.89	0.0741	24	1	100	1
9/21/2012	9:36 AM	67.5	67.5	67.5	64	54.9	3	ESE	0.05	5	ESE	67.5	67.5	67.5	30.115	0	0	0	0.002	71.6	58	56	71.2	10.69	0.0741	22	1	95.7	1
9/21/2012	9:37 AM	67.4	67.5	67.4	64	54.8	2	ESE	0.03	3	ESE	67.4	67.4	67.4	30.114	0	0	0	0.002	71.6	58	56	71.2	10.69	0.0741	23	1	100	1
9/21/2012	9:38 AM	67.4	67.4	67.4	65	55.2	2	ESE	0.03	5	ESE	67.4	67.5	67.5	30.114	0	0	0	0.002	71.8	58	56.2	71.5	10.68	0.074	23	1	100	1
9/21/2012	9:39 AM	67.5	67.5	67.5	65	55.3	2	ESE	0.03	4	ESE	67.5	67.6	67.6	30.114	0	0	0	0.002	71.9	58	56.3	71.6	10.67	0.074	22	1	95.7	1
9/21/2012	9:40 AM	67.6	67.6	67.5	64	55	2	ESE	0.03	4	ESE	67.6	67.6	67.6	30.115	0	0	0	0.002	72.1	58	56.5	71.9	10.67	0.074	24	1	100	1
9/21/2012	9:41 AM	67.6	67.6	67.5	65	55.4	2	ESE	0.03	4	ESE	67.6	67.7	67.7	30.115	0	0	0	0.002	72.1	58	56.5	71.9	10.67	0.074	22	1	95.7	1
9/21/2012	9:42 AM	67.7	67.7	67.6	64	55.1	2	ESE	0.03	4	ESE	67.7	67.7	67.7	30.115	0	0	0	0.002	72.3	58	56.7	72.2	10.66	0.0739	23	1	100	1
9/21/2012	9:43 AM	67.7	67.7	67.7	63	54.6	2	ESE	0.03	2	ESE	67.7	67.6	67.6	30.115	0	0	0	0.002	72.4	58	56.8	72.3	10.65	0.0739	24	1	100	1
9/21/2012	9:44 AM	67.8	67.8	67.7	64	55.2	1	ESE	0.02	2	ESE	67.8	67.9	67.9	30.115	0	0	0	0.002	72.6	58	57	72.6	10.65	0.0739	23	1	100	1
9/21/2012	9:45 AM	68	68	67.9	63	54.9	2	ESE	0.03	3	ESE	68	68	68	30.117	0	0	0	0.002	72.6	57	56.5	72.6	10.45	0.0739	24	1	100	1
9/21/2012	9:46 AM	68.1	68.1	68	63	55	2	ESE	0.03	5	E	68.1	68.1	68.1	30.116	0	0	0	0.002	72.8	57	56.7	72.9	10.44	0.0739	23	1	100	1
9/21/2012	9:47 AM	68.3	68.3	68.2	63	55.2	2	E	0.03	5	E	68.3	68.2	68.2	30.114	0	0	0	0.002	73	57	56.9	73.2	10.43	0.0738	24	1	100	1
9/21/2012	9:48 AM	68.3	68.3	68.3	63	55.2	2	E	0.03	5	E	68.3	68.2	68.2	30.115	0	0	0	0.002	73	57	56.9	73.2	10.43	0.0738	23	1	100	1
9/21/2012	9:49 AM	68.4	68.4	68.3	63	55.3	2	E	0.03	5	E	68.4	68.3	68.3	30.113	0	0	0	0.002	73.1	57	57	73.3	10.43	0.0738	23	1	100	1
9/21/2012	9:50 AM	68.4	68.4	68.3	63	55.3	2	E	0.03	5	E	68.4	68.3	68.3	30.115	0	0	0	0.002	73.3	57	57.1	73.5	10.42	0.0738	24	1	100	1
9/21/2012	9:51 AM	68.5	68.5	68.4	62	55	2	E	0.03	3	E	68.5	68.3	68.3	30.113	0	0	0	0.002	73.5	57	57.3	73.8	10.41	0.0737	23	1	100	1
9/21/2012	9:52 AM	68.5	68.5	68.5	63	55.4	1	ESE	0.02	3	ESE	68.5	68.4	68.4	30.114	0	0	0	0.002	73.6	57	57.4	73.9	10.41	0.0737	24	1	100	1
9/21/2012	9:53 AM	68.6	68.6	68.5	62	55.1	3	ESE	0.05	6	SSE	68.6	68.3	68.3	30.113	0	0	0	0.002	73.6	57	57.4	73.9	10.41	0.0737	23	1	100	1
9/21/2012	9:54 AM	68.6	68.6	68.6	62	55.1	4	SSE	0.07	5	SSE	68.6	68.3	68.3	30.116	0	0	0	0.002	73.8	56	57.1	74.1	10.27	0.0737	23	1	100	1
9/21/2012	9:55 AM	68.6	68.6	68.6	62	55.1	3	SSE	0.05	5	SE	68.6	68.3	68.3	30.114	0	0	0	0.002	74	56	57.3	74.3	10.27	0.0737	24	1	100	1
9/21/2012	9:56 AM	68.7	68.7	68.6	62	55.2	3	SE	0.05	7	SE	68.7	68.4	68.4	30.114	0	0	0	0.003	74	56	57.3	74.3	10.27	0.0737	23	1	100	1
9/21/2012	9:57 AM	68.7	68.7	68.6	62	55.2	2	ESE	0.03	4	ESE	68.7	68.4	68.4	30.113	0	0	0	0.003	74.2	56	57.5	74.6	10.27	0.0736	24	1	100	1
9/21/2012	9:58 AM	68.8	68.8	68.7	62	55.2	4	SSE	0.07	7	SE	68.8	68.5	68.5	30.112	0	0	0	0.003	74.2	56	57.5	74.6	10.27	0.0736	23	1	100	1
9/21/2012	9:59 AM	68.8	68.8	68.7	60	54.3	5	SSE	0.08	9	SE	68.8	68.3	68.3	30.11	0	0	0	0.003	74.3	56	57.6	74.7	10.26	0.0736	24	1	100	1
9/21/2012	10:00 AM	68.8	68.8	68.7	60	54.3	5	SE	0.08	7	SE	68.8	68.3	68.3	30.108	0	0	0	0.003	74.5	56	57.8	74.9	10.26	0.0736	23	1	100	1
9/21/2012	10:01 AM	68.8	68.8	68.8	60	54.3	5	SSE	0.08	9	SSE	68.8	68.3	68.3	30.111	0	0	0	0.003	74.5	56	57.8	74.9	10.26	0.0736	23	1	100	1
9/21/2012	10:02 AM	68.8	68.8	68.8	61	54.8	3	SSE	0.05	7	SE	68.8	68.4	68.4	30.111	0	0	0	0.003	74.7	55	57.5	75.1	10.06	0.0736	24	1	100	1
9/21/2012	10:03 AM	68.8	68.9	68.8	61	54.8	3	ESE	0.05	4	SE	68.8	68.4	68.4	30.111	0	0	0	0.003	74.9	55	57.6	75.4	10.05	0.0735	23	1	100	1
9/21/2012	10:04 AM	68.9	68.9	68.9	60	54.4	3	ESE	0.05	6	SE	68.9	68.3	68.3	30.112	0	0	0	0.003	74.9	55	57.6	75.4	10.05	0.0735	24	1	100	1
9/21/2012	10:05 AM	69	69	68.9	60	54.5	2	SE	0.03	4	SE	69	68.4	68.4	30.113	0	0	0	0.003	75	55	57.7	75.5	10.05	0.0735	23	1	100	1
9/21/2012	10:06 AM	69.1	69.1	69	60	54.6	1	SE	0.02	3	SE	69.1	68.5	68.5	30.112	0	0	0	0.003	75	55	57.7	75.5	10.05	0.0735	23	1	100	1
9/21/2012	10:07 AM	69.2	69.2	69.1	60	54.7	3	SE	0.05	6	SE	69.2	68.6	68.6	30.109	0	0	0	0.003	75.2	55	57.9	75.7	10.04	0.0735	24	1	100	1
9/21/2012	10:08 AM	69.2	69.2	69.2	60	54.7	4	SSE	0.07	7	SE	69.2	68.6	68.6	30.111	0	0	0	0.003	75.2	55	57.9	75.7	10.04	0.0735	23	1	100	1
9/21/2012	10:09 AM	69.3	69.3	69.2	57	53.4	3	ESE	0.05	4	ESE	69.3	68.4	68.4	30.112	0	0	0	0.003	75.4	55	58.1	75.8	10.03	0.0734	24	1	100	1
9/21/2012	10:10 AM	69.4	69.4	69.3	57	53.5	3	SE	0.05	7	SE	69.4	68.5	68.5	30.112	0	0	0	0.003	75.6	54	57.8	75.9	9.84	0.0734	23	1	100	1
9/21/2012	10:11 AM	69.4	69.4	69.3	58	54	4	SSE	0.07	6	SSE	69.4	68.5	68.5	30.113	0	0	0	0.003	75.6	54	57.8	75.9	9.84	0.0734	24	1	100	1
9/21/2012	10:12 AM	69.3	69.4	69.3	58	53.9	4	SE	0.07	6	SSE	69.3	68.5	68.5	30.112	0	0	0	0.003	75.7	54	57.9	76	9.84	0.0734	23	1	100	1
9/21/2012	10:13 AM	69.2	69.3	69.2	57	53.3	4	SE	0.07	6	SE	69.2	68.3	68.3	30.111	0	0	0	0.003	75.7	54	57.9	76	9.84	0.0734	23	1	100	1
9/21/2012	10:14 AM	69.2	69.2	69.2	58	53.8	4	SE	0.07	6	SE	69.2	68.4	68.4	30.114	0	0	0	0.003	75.9	53	57.5	76.1	9.65	0.0734	24	1	100	1
9/21/2012	10:15 AM	69.2	69.2	69.1	58	53.8	3	SSE	0.05	7	SSE	69.2	68.4	68.4	30.115	0	0	0	0.003	76.1	53	57.7	76.3	9.65	0.0734	23	1	100	1
9/21/2012	10:16 AM	69.1	69.2	69.1	59	54.2	4	SSE	0.07	7	SSW	69.1	68.4	68.4	30.114	0	0	0	0.003	76.1	53	57.7	76.3	9.65	0.0734	24	1	100	1
9/21/2012	10:17 AM	69.2	69.2	69.1	59	54.3	4	SSE	0.07	6	SSW	69.2	68.5	68.5	30.113	0	0	0	0.003	76.3	53	57.9	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:18 AM	69.2	69.2	69.1	59	54.3	2	SE	0.03	4	SSE	69.2	68.5	68.5	30.111	0	0	0	0.003	76.3	53	57.9	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:19 AM	69.2	69.2	69.2	59	54.3	2	SE	0.03	4	SE	69.2	68.5	68.5	30.112	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:20 AM	69.3	69.3	69.2	59	54.4	1	SE	0.02	2	SE	69.3	68.6	68.6	30.111	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:21 AM	69.5	69.5	69.4	59	54.5	2	ESE	0.03	4	ESE	69.5	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	23	1	100	1
9/21/2012	10:22 AM	69.6	69.6	69.6	58	54.2	4	SSE	0.07	6	SSE	69.6	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	22	1	95.7	1
9/21/2012	10:23 AM	69.6	69.6	69.6	58	54.2	3	SE	0.05	7	SE	69.6	68.7	68.7	30.111	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0733	24	1	100	1
9/21/2012	10:24 AM	69.7	69.7	69.6	58	54.3	1	SE	0.02	2	SE	69.7	68.8	68.8	30.11	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0732	22	1	95.7	1
9/21/2012	10:25 AM	69.8	69.8	69.7	58	54.4	1	SE	0.02	2	SE	69.8	68.8	68.8	30.112	0	0	0	0.003	77	52	58	77	9.51	0.0732	23	1	100	1

Meteorological Data
Equity IRM

9/21/2012	11:46 AM	71.7	71.9	71.7	54	54.2	1	SSE	0.02	3	SSE	71.7	71	71	30.092	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:47 AM	71.7	71.7	71.7	54	54.2	1	SSE	0.02	5	SSE	71.7	71	71	30.093	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:48 AM	71.7	71.7	71.7	54	54.2	2	ESE	0.03	4	ESE	71.7	71	71	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:49 AM	71.8	71.8	71.7	55	54.8	2	ESE	0.03	4	SE	71.8	71.2	71.2	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	23	1	100	1
9/21/2012	11:50 AM	71.9	71.9	71.8	54	54.3	2	SE	0.03	5	SE	71.9	71.3	71.3	30.091	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:51 AM	71.9	71.9	71.9	54	54.3	4	SSW	0.07	5	S	71.9	71.3	71.3	30.091	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	23	1	100	1
9/21/2012	11:52 AM	71.9	71.9	71.9	55	54.9	3	SSE	0.05	5	SSW	71.9	71.4	71.4	30.09	0	0	0	0.005	82.9	43	58.1	83	7.99	0.0724	23	1	100	1
9/21/2012	11:53 AM	71.9	71.9	71.9	54	54.3	2	SSE	0.03	4	SSE	71.9	71.3	71.3	30.088	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	24	1	100	1
9/21/2012	11:54 AM	71.9	71.9	71.9	54	54.3	2	S	0.03	5	SSE	71.9	71.3	71.3	30.087	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	22	1	95.7	1
9/21/2012	11:55 AM	71.9	71.9	71.9	55	54.9	2	S	0.03	4	S	71.9	71.4	71.4	30.086	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	24	1	100	1
9/21/2012	11:56 AM	71.9	72	71.9	54	54.3	4	WSW	0.07	5	S	71.9	71.3	71.3	30.086	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	22	1	95.7	1
9/21/2012	11:57 AM	71.9	71.9	71.9	56	55.3	1	SSE	0.02	6	SSE	71.9	71.4	71.4	30.087	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	23	1	100	1
9/21/2012	11:58 AM	71.9	72	71.9	55	54.9	1	SSE	0.02	2	SSE	71.9	71.4	71.4	30.085	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	23	1	100	1
9/21/2012	11:59 AM	72.1	72.1	72	55	55	0	SSE	0	2	SSE	72.1	71.6	71.6	30.086	0	0	0	0.005	83.1	43	58.3	83.3	7.99	0.0723	22	1	95.7	1
9/21/2012	12:00 PM	72.2	72.2	72.1	56	55.6	2	SSE	0.03	6	SE	72.2	71.9	71.9	30.086	0	0	0	0.005	83.3	43	58.5	83.7	7.98	0.0723	23	1	100	1
9/21/2012	12:01 PM	72.2	72.2	72.2	55	55.1	4	SSE	0.07	7	SSE	72.2	71.8	71.8	30.087	0	0	0	0.005	83.3	43	58.5	83.7	7.98	0.0723	22	1	95.7	1
9/21/2012	12:02 PM	72.2	72.2	72.2	55	55.1	5	SE	0.08	7	SE	72.2	71.8	71.8	30.087	0	0	0	0.005	83.3	43	58.5	83.7	7.98	0.0723	24	1	100	1
9/21/2012	12:03 PM	72.3	72.3	72.2	55	55.2	3	SSE	0.05	6	SSE	72.3	72	72	30.089	0	0	0	0.005	83.3	43	58.5	83.7	7.98	0.0723	22	1	95.7	1
9/21/2012	12:04 PM	72.3	72.3	72.3	55	55.2	4	SSE	0.07	6	SSE	72.3	72	72	30.085	0	0	0	0.005	83.5	43	58.6	84	7.98	0.0723	23	1	100	1
9/21/2012	12:05 PM	72.3	72.3	72.3	55	55.2	4	SSE	0.07	5	SSE	72.3	72	72	30.086	0	0	0	0.005	83.5	43	58.6	84	7.98	0.0723	23	1	100	1
9/21/2012	12:06 PM	72.2	72.3	72.2	55	55.1	4	SSE	0.07	4	SSE	72.2	71.8	71.8	30.086	0	0	0	0.005	83.5	43	58.6	84	7.98	0.0723	23	1	100	1
9/21/2012	12:07 PM	72.2	72.2	72.1	54	54.6	2	S	0.03	4	S	72.2	71.7	71.7	30.085	0	0	0	0.005	83.7	43	58.8	84.3	7.98	0.0722	24	1	100	1
9/21/2012	12:08 PM	72.2	72.2	72.1	55	55.1	1	SE	0.02	4	SE	72.2	71.8	71.8	30.085	0	0	0	0.005	83.7	43	58.8	84.3	7.98	0.0722	23	1	100	1
9/21/2012	12:09 PM	72.2	72.2	72.2	56	55.6	1	SE	0.02	4	SE	72.2	71.9	71.9	30.085	0	0	0	0.005	83.7	42	58.2	84.1	7.85	0.0722	24	1	100	1
9/21/2012	12:10 PM	72.1	72.2	72.1	55	55	3	SE	0.05	7	SSE	72.1	71.6	71.6	30.085	0	0	0	0.005	83.7	43	58.8	84.3	7.98	0.0722	23	1	100	1
9/21/2012	12:11 PM	72	72.1	72	54	54.4	6	SSE	0.1	10	SSE	72	71.4	71.4	30.084	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:12 PM	71.8	72	71.8	54	54.3	4	SE	0.07	10	SSE	71.8	71.1	71.1	30.086	0	0	0	0.005	83.9	43	59	84.6	7.97	0.0722	24	1	100	1
9/21/2012	12:13 PM	71.7	71.8	71.7	54	54.2	4	SSE	0.07	7	S	71.7	71	71	30.084	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:14 PM	71.6	71.7	71.6	55	54.6	5	S	0.08	7	SSE	71.6	70.9	70.9	30.086	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	12:15 PM	71.6	71.6	71.6	55	54.6	3	SSE	0.05	8	SSE	71.6	70.9	70.9	30.084	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:16 PM	71.6	71.6	71.6	55	54.6	3	SSE	0.05	4	SSE	71.6	70.9	70.9	30.083	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:17 PM	71.5	71.6	71.5	55	54.5	4	SSE	0.07	6	SSE	71.5	70.8	70.8	30.085	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	12:18 PM	71.5	71.5	71.5	56	55	4	SSE	0.07	7	SSE	71.5	70.8	70.8	30.082	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:19 PM	71.5	71.5	71.5	57	55.5	3	SSE	0.05	5	SSE	71.5	70.9	70.9	30.081	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	12:20 PM	71.6	71.6	71.5	57	55.6	4	SSE	0.07	8	SSE	71.6	71.1	71.1	30.083	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	12:21 PM	71.8	71.8	71.7	56	55.3	5	SSE	0.08	7	S	71.8	71.3	71.3	30.082	0	0	0	0.005	84.1	43	59.2	84.9	7.97	0.0721	24	1	100	1
9/21/2012	12:22 PM	72.1	72.1	71.9	56	55.5	4	SSE	0.07	7	SSE	72.1	71.7	71.7	30.083	0	0	0	0.005	84.1	43	59.2	84.9	7.97	0.0721	23	1	100	1
9/21/2012	12:23 PM	72.4	72.4	72.1	55	55.3	2	E	0.03	3	E	72.4	72.1	72.1	30.082	0	0	0	0.005	84.1	43	59.2	84.9	7.97	0.0721	23	1	100	1
9/21/2012	12:24 PM	72.5	72.5	72.4	56	55.9	3	SE	0.05	4	ESE	72.5	72.3	72.3	30.082	0	0	0	0.005	84.1	42	58.5	84.7	7.85	0.0722	24	1	100	1
9/21/2012	12:25 PM	72.6	72.6	72.5	55	55.5	5	SSE	0.08	8	SSE	72.6	72.4	72.4	30.079	0	0	0	0.005	84.3	42	58.7	84.9	7.85	0.0721	23	1	100	1
9/21/2012	12:26 PM	72.7	72.7	72.6	55	55.6	5	S	0.08	6	S	72.7	72.5	72.5	30.081	0	0	0	0.005	84.3	42	58.7	84.9	7.85	0.0721	24	1	100	1
9/21/2012	12:27 PM	72.6	72.7	72.6	54	55	5	S	0.08	7	S	72.6	72.3	72.3	30.081	0	0	0	0.005	84.3	42	58.7	84.9	7.85	0.0721	23	1	100	1
9/21/2012	12:28 PM	72.5	72.6	72.5	55	55.4	4	SE	0.07	7	SE	72.5	72.3	72.3	30.082	0	0	0	0.005	84.3	42	58.7	84.9	7.85	0.0721	23	1	100	1
9/21/2012	12:29 PM	72.4	72.5	72.4	55	55.3	3	S	0.05	5	S	72.4	72.1	72.1	30.081	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	24	1	100	1
9/21/2012	12:30 PM	72.3	72.4	72.3	56	55.7	2	S	0.03	4	S	72.3	72	72	30.081	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	23	1	100	1
9/21/2012	12:31 PM	72.3	72.3	72.3	55	55.2	1	S	0.02	3	S	72.3	72	72	30.082	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	23	1	100	1
9/21/2012	12:32 PM	72.2	72.3	72.2	56	55.6	2	S	0.03	7	SSE	72.2	71.9	71.9	30.079	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	22	1	95.7	1
9/21/2012	12:33 PM	72.3	72.3	72.2	56	55.7	5	SE	0.08	11	SE	72.3	72	72	30.079	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	23	1	100	1
9/21/2012	12:34 PM	72.4	72.4	72.3	55	55.3	3	SSW	0.05	11	SE	72.4	72.1	72.1	30.079	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	24	1	100	1
9/21/2012	12:35 PM	72.3	72.4	72.3	55	55.2	1	SSW	0.02	2	SSW	72.3	72	72	30.078	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	23	1	100	1
9/21/2012	12:36 PM	72.4	72.4	72.4	56	55.8	1	SSW	0.02	4	SSW	72.4	72.2	72.2	30.077	0	0	0	0.005	84.5	42	58.9	85	7.85	0.0721	24	1	100	1
9/21/2012	12:37 PM	72.5	72.5	72.5	56	55.9	3	S	0.05	6	SSE	72.5	72.3	72.3	30.077	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.0721	23	1	100	1
9/21/2012	12:38 PM	72.7	72.7	72.6	55	55.6	6	SSE	0.1	8	SSE	72.7	72.5	72.5	30.078	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.0721	24	1	100	1
9/21/2012	12:39 PM	72.7	72.7	72.7	54	55.1	4	S	0.07	9	S	72.7	72.5	72.5	30.08	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.0721	23	1	100	1
9/21/2012	12:40 PM	72.8	72.8	72.7	55	55.7	3	S	0.05	7	SSE	72.8	72.7	72.7	30.076	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.0721	22	1	95.7	1
9/21/2012	12:41 PM	72.9	72.9	72.8	55	55.8	4	SSE	0.07	7	S	72.9	72.9	72.9	30.079	0	0	0	0.005	84.9	42	59.2	85.4	7.85	0.072	24	1	100	1
9/21/2012	12:42 PM	72.8	72.9	72.8	54	55.2	5	SSW	0.08	7	SSW	72.8	72.6	72.6	30.077	0	0	0	0.005	84.9	42	59.2	85.4	7.85	0.072	22	1	95.7	1
9/21/2012	12:43 PM	72.7	72.8	72.7	55	55.6	5	S	0.08	8	S	72.7	72.5	72.5	30.079	0	0	0	0.005	84.9	42	59.2	85.4	7.85	0.072	24	1	100	1
9/21/2012	12:44 PM	72.6	72.7	72.6	55	55.5	5	SSE	0.08	7	SSE	72.6	72.4	72.4	30.079	0	0	0	0.005	85.1	42	59.4	85.6	7.85	0.072	22	1	95.7	1
9/21/2012	12:45 PM	72.5	72.6	72.5	56	55.9	4	SE	0.07	7	SE	72.5	72.3	72.3	30.079	0	0	0	0.005	85.1	42	59.4	85.6	7.85	0.072	23	1	100	1
9/21/2012	12:46 PM	72.5	72.5	72.5	56	55.9	3	ESE	0.05	6	SE	72.5	72.3	72.3	30.079	0	0	0	0.005	85.1	42	59.4	85.6	7.85	0.072	23	1	100	1
9/21/2012	12:47 PM	72.6	72.6	72.5	56	56	4	SSE	0.07	6	S	72.6	72.5	72.5	30.076	0	0	0	0.005	85.1	42	59.4	85.6	7.85	0.072	23	1	100	1
9/21/2012	12:48 PM	72.6	72.6	72.5	57	56.5	5	SSE	0.08	8	S	72.6	72.6	72.6	30.078	0	0	0	0.005	85.1	42	59.4	85.6	7.85	0.072	23	1	100	1
9/21/2012	12:49 PM	72.6	72.6	72.6	56	56	4	S	0.07	7	SSE	72.6	72.5	72.5	30.077	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	21	1	91.3	1
9/21/2012	12:50 PM	72.6	72.6	72.6	57	56.5	3	SSE	0.05	6	SSE	72.6	72.6	72.6	30.075	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	12:51 PM	72.7	72.7	72.6	57	56.6	1	SSW	0.02	3	SSW	72.7	72.7	72.7	30.076	0	0	0	0.005	85.3	42	59.6	85.8	7.84	0.0719	22	1	95.7	1
9/21/2012	12:52 PM	72.8	72.8	72.7	57	56.7	3	W	0.05	7	S	72.8	72.9	72.9	30.076	0	0	0	0.005	85.3	42	59.6	85.8	7.84	0.0719	22	1	95.7	1
9/21/2012	12:53 PM	72.9	72.9	72.8	56	56.3	3	SSW	0.05	6	SSE	72.9	72.9	72.9	30.074	0	0	0	0.005	85.3	42	59.6	85.8	7.84	0.0719	24	1	100	1
9/21/2012	12:54 PM	73	73	72.9	56	56.4	5	S	0.08	9	SW	73	73.1	73.1	30.075	0	0	0	0.006	85.3	42	59.6	85.8	7.84	0.0719	23	1	100	1
9/21/2012	12:55 PM	73	73	73	56	56.4	6	S	0.1	8	SW	73	73.1	73.1	30.074	0	0	0	0.006	85.3	42	59.6	85.8	7.84	0.0719	24	1	100	1
9/21/2012	12:56 PM	73.1	73.1	73.1	55	56	7	S	0.12	10	SE	73.1	73.1	73.1	30.077	0	0	0	0.006	85.5	42	59.8	86	7.84	0.0719	23	1	100	1
9/21/2012	12:57 PM	73	73.1	73	56	56.4	6	S	0.1	8	SSE	73	73.1	73.1	30.076	0	0	0	0.006	85.5	42	59.8	86	7.84	0.0719	23	1	100	1
9/21/2012	12:58 PM	72.9	73	72.9	56	56.3	6	S	0.1	8	S	72.9	72.9	72.9	30.074	0	0	0	0.005	85.5	42	59.8	86	7.84	0.0719	24	1	100	1
9/21/2012	12:59 PM	72.7	72.8	72.7	55	55.6	5	SSW	0.08	7	SSW	72.7	72.5	72.5	30.074	0	0	0	0.005	85.5	42	59.8	86	7.84	0.0719	23	1	100	1
9/21/2012	1:00 PM	72.5	72.6	72.5	57	56.4	4	SSE	0.07	6	S	72.5	72.4	72.4	30.076	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	24	1	100	1
9/21/2012	1:01 PM	72.4	72.5	72.4	57	56.3	5	S	0.08	7	S	72.4	72.3	72.3	30.076	0	0	0	0.005	85.7	42	60	86.2	7.84	0.0719	23	1	100	1
9/21/2012	1:02 PM	72.3	72.4	72.3	58	56.7	2	S	0.03	5	S	72.3	72.2	72.2	30.076	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	24	1	100	1
9/21/2012	1:03 PM	72.2	72.3	72.2	58	56.6	4	S	0.07	9	S	72.2	72	72	30.076	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:04 PM	72.3	72.3	72.2	57	56.2	6	SSE	0.1	9	SSE	72.3	72.1	72.1	30.075	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:05 PM	72.4	72.4	72.3	56	55.8	5	SSE	0.08	8	SE	72.4	72.2	72.2	30.076	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	24	1	100	1
9/21/2012	1:06 PM	72.5	72.5	72.4	56	55.9	3	SE	0.05	5	SE	72.5	72.3	72.3	30.074	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:07 PM	72.6	72.6	72.5	57	56.5	5	S	0.08	8	S	72.6	72.6	72.6	30.072	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	24	1	100	1
9/21/2012	1:08 PM	72.6	72.6	72.6	57	56.5	5	S	0.08	7	S	72.6	72.6	72.6	30.074	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:09 PM	72.5	72.6	72.5	57	56.4	8	SSE	0.13	11	S	72	72.4	71.9	30.073	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:10 PM	72.4	72.5	72.4	57	56.3	6	SSE	0.1	10	SSE	72.4	72.3	72.3	30.069	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	24	1	100	1
9/21/2012	1:11 PM	72.5	72.5	72.4	58	56.9	7	SSE	0.12	9	S	72.5	72.5	72.5	30.068	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:12 PM	72.5	72.5	72.5	57	56.4	4	S	0.07	7	SSE	72.5	72.4	72.4	30.07	0	0	0	0.005	85.7	42	60	86.2	7.84	0.0719	24	1	100	1
9/21/2012	1:13 PM	72.5	72.5	72.5	58	56.9	5	S	0.08	7	S	72.5	72.5	72.5	30.069	0	0	0	0.005	85.7	41	59.3	86	7.65	0.0719	23	1	100	1
9/21/2012	1:14 PM	72.6	72.6	72.5	57	56.5	5	SSE	0.08	8	SSE	72.6	72.6	72.6	30.071	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	24	1	100	1
9/21/2012	1:15 PM	72.7	72.7	72.6	57	56.6	5	S	0.08	8	SE	72.7	72.7	72.7	30.069	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	23	1	100	1
9/21/2012	1:16 PM	72.8	72.8	72.7	57	56.7	6	S	0.1	9	S	72.8	72.9	72.9	30.069	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	23	1	100	1
9/21/2012	1:17 PM	72.7	72.8	72.7	56	56.1	6	SSW	0.1	8	SSE	72.7	72.6	72.6	30.07	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	24	1	100	1
9/21/2012	1:18 PM	72.6	72.7	72.6	57	56.5	6	S	0.1	11	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:19 PM	72.6	72.6	72.6	57	56.5	5	SSE	0.08	8	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	24	1	100	1
9/21/2012	1:20 PM	72.5	72.6	72.5	56	55.9	4	SSE	0.07	6	SSE	72.5	72.3	72.3	30.069	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:21 PM	72.5	72.5	72.5	57	56.4	4	SSE	0.07	7	S	72.5	72.4	72.4	30.067	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	23	1	100	1
9/21/2012	1:22 PM	72.4	72.5	72.4	57	56.3	4	SSE	0.07	8	SSE	72.4	72.3	72.3	30.069	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	24	1	100	1
9/21/2012	1:23 PM	72.5	72.5	72.4	57	56.4	7	SSE	0.12	9	SSE	72.5	72.4	72.4	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	23	1	100	1
9/21/2012	1:24 PM	72.4	72.4	72.4	57	56.3	5	SSE	0.08	8	SSE	72.4	72.3	72.3	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	24	1	100	1
9/21/2012	1:25 PM	72.4	72.4	72.4	57	56.3	6	S	0.1	12	SSE	72.4	72.3	72.3	30.068	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	22	1	95.7	1
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Meteorological Data
Equity IRM

9/21/2012	2:46 PM	73.8	73.8	73.8	49	53.4	5	S	0.08	8	SSW	73.8	73.4	73.4	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:47 PM	73.8	73.8	73.8	50	54	4	S	0.07	6	S	73.8	73.5	73.5	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	22	1	95.7	1
9/21/2012	2:48 PM	73.8	73.8	73.8	50	54	4	SSW	0.07	6	SSW	73.8	73.5	73.5	30.045	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:49 PM	73.8	73.8	73.8	48	52.9	5	SSE	0.08	8	SSE	73.8	73.3	73.3	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:50 PM	73.8	73.8	73.7	49	53.4	5	SSE	0.08	7	SSE	73.8	73.4	73.4	30.047	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:51 PM	73.8	73.8	73.8	48	52.9	4	SE	0.07	7	S	73.8	73.3	73.3	30.048	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:52 PM	73.9	73.9	73.8	48	53	5	S	0.08	7	SSW	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	23	1	100	1
9/21/2012	2:53 PM	73.9	73.9	73.9	48	53	4	S	0.07	5	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	24	1	100	1
9/21/2012	2:54 PM	73.9	73.9	73.9	48	53	5	SSW	0.08	11	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	40	55.4	81.4	7.55	0.0725	23	1	100	1
9/21/2012	2:55 PM	73.9	73.9	73.9	48	53	6	S	0.1	9	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	40	55.4	81.4	7.55	0.0725	23	1	100	1
9/21/2012	2:56 PM	74	74	73.9	48	53.1	4	S	0.07	9	SW	74	73.6	73.6	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	24	1	100	1
9/21/2012	2:57 PM	74	74	73.9	48	53.1	7	S	0.12	11	S	74	73.6	73.6	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	22	1	95.7	1
9/21/2012	2:58 PM	73.9	73.9	73.9	48	53	4	SSE	0.07	7	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	23	1	100	1
9/21/2012	2:59 PM	73.8	73.9	73.8	48	52.9	5	S	0.08	8	S	73.8	73.3	73.3	30.047	0	0	0	0.006	82	41	56	81.4	7.71	0.0725	23	1	100	1
9/21/2012	3:00 PM	73.8	73.8	73.8	49	53.4	3	SSE	0.05	5	SSE	73.8	73.4	73.4	30.046	0	0	0	0.006	82	40	55.3	81.3	7.55	0.0725	23	1	100	1
9/21/2012	3:01 PM	73.9	73.9	73.8	48	53	4	SSE	0.07	6	S	73.9	73.5	73.5	30.046	0	0	0	0.006	82	41	56	81.4	7.71	0.0725	23	1	100	1
9/21/2012	3:02 PM	73.9	73.9	73.8	49	53.5	5	S	0.08	8	S	73.9	73.5	73.5	30.045	0	0	0	0.006	82	41	56	81.4	7.71	0.0725	22	1	95.7	1
9/21/2012	3:03 PM	73.9	73.9	73.9	47	52.4	2	S	0.03	4	SSE	73.9	73.4	73.4	30.045	0	0	0	0.006	82	41	56	81.4	7.71	0.0725	24	1	100	1
9/21/2012	3:04 PM	74	74	73.9	47	52.5	3	SSW	0.05	5	S	74	73.5	73.5	30.046	0	0	0	0.006	82	41	56	81.4	7.71	0.0725	22	1	95.7	1
9/21/2012	3:05 PM	74.1	74.1	74	48	53.2	4	SSW	0.07	7	S	74.1	73.7	73.7	30.045	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	24	1	100	1
9/21/2012	3:06 PM	74.1	74.1	74	48	53.2	5	S	0.08	8	SSW	74.1	73.7	73.7	30.047	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	22	1	95.7	1
9/21/2012	3:07 PM	74	74	74	48	53.1	4	S	0.07	7	SSE	74	73.6	73.6	30.046	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	22	1	95.7	1
9/21/2012	3:08 PM	73.9	74	73.9	48	53	5	SSW	0.08	7	SW	73.9	73.5	73.5	30.047	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	24	1	100	1
9/21/2012	3:09 PM	73.7	73.8	73.7	49	53.3	4	SSE	0.07	7	SSW	73.7	73.3	73.3	30.045	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	23	1	100	1
9/21/2012	3:10 PM	73.7	73.7	73.7	48	52.8	3	SSE	0.05	6	SSE	73.7	73.2	73.2	30.047	0	0	0	0.006	81.8	41	55.8	81.2	7.71	0.0725	24	1	100	1
9/21/2012	3:11 PM	73.7	73.7	73.6	49	53.3	3	SSE	0.05	5	SSE	73.7	73.3	73.3	30.046	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	23	1	100	1
9/21/2012	3:12 PM	73.8	73.8	73.7	49	53.4	4	S	0.07	6	S	73.8	73.4	73.4	30.046	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	23	1	100	1
9/21/2012	3:13 PM	73.8	73.8	73.8	47	52.3	5	S	0.08	7	S	73.8	73.3	73.3	30.046	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	24	1	100	1
9/21/2012	3:14 PM	73.8	73.8	73.8	46	51.7	5	S	0.08	9	S	73.8	73.2	73.2	30.046	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	23	1	100	1
9/21/2012	3:15 PM	73.9	73.9	73.8	46	51.8	4	SSE	0.07	7	SE	73.9	73.3	73.3	30.047	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	24	1	100	1
9/21/2012	3:16 PM	73.9	73.9	73.8	45	51.2	5	SSE	0.08	8	ESE	73.9	73.3	73.3	30.048	0	0	0	0.006	81.6	41	55.6	80.9	7.72	0.0725	23	1	100	1
9/21/2012	3:17 PM	73.8	73.9	73.8	46	51.7	6	S	0.1	10	S	73.8	73.2	73.2	30.048	0	0	0	0.006	81.4	41	55.4	80.6	7.72	0.0726	24	1	100	1
9/21/2012	3:18 PM	73.7	73.8	73.7	46	51.6	5	SSE	0.08	8	SSE	73.7	73.1	73.1	30.048	0	0	0	0.006	81.4	41	55.4	80.6	7.72	0.0726	23	1	100	1
9/22/2012	6:36 PM	72.8	72.8	72.8	82	67	0	---	0	0	---	72.8	74.6	74.6	29.794	0	0	0	0.005	74.2	52	55.4	74.2	9.57	0.0729	23	1	100	1
9/22/2012	6:37 PM	72.7	72.8	72.7	82	66.9	0	---	0	0	---	72.7	74.5	74.5	29.797	0	0	0	0.005	74	52	55.3	73.9	9.57	0.073	22	1	95.7	1
9/22/2012	6:38 PM	72.7	72.8	72.7	82	66.9	0	---	0	0	---	72.7	74.5	74.5	29.795	0	0	0	0.005	74	53	55.8	74	9.69	0.0729	22	1	95.7	1
9/22/2012	6:39 PM	72.7	72.8	72.7	82	66.9	0	---	0	0	---	72.7	74.5	74.5	29.794	0	0	0	0.005	74	53	55.8	74	9.69	0.0729	23	1	100	1
9/22/2012	6:40 PM	72.6	72.7	72.6	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.792	0	0	0	0.005	73.8	53	55.6	73.8	9.7	0.073	22	1	95.7	1
9/22/2012	6:41 PM	72.7	72.7	72.6	83	67.2	0	---	0	0	---	72.7	74.6	74.6	29.792	0	0	0	0.005	73.8	53	55.6	73.8	9.7	0.073	22	1	95.7	1
9/22/2012	6:42 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.793	0	0	0	0.005	73.8	53	55.6	73.8	9.7	0.073	22	1	95.7	1
9/22/2012	6:43 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.792	0	0	0	0.005	73.8	53	55.6	73.8	9.7	0.073	22	1	95.7	1
9/22/2012	6:44 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.795	0	0	0	0.005	73.6	53	55.4	73.5	9.71	0.073	24	1	100	1
9/22/2012	6:45 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.794	0	0	0	0.005	73.6	53	55.4	73.5	9.71	0.073	22	1	95.7	1
9/22/2012	6:46 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.793	0	0	0	0.005	73.6	53	55.4	73.5	9.71	0.073	22	1	95.7	1
9/22/2012	6:47 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.793	0	0	0	0.005	73.6	53	55.4	73.5	9.71	0.073	23	1	100	1
9/22/2012	6:48 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.791	0	0	0	0.005	73.5	53	55.3	73.4	9.71	0.073	22	1	95.7	1
9/22/2012	6:49 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.792	0	0	0	0.005	73.5	53	55.3	73.4	9.71	0.073	23	1	100	1
9/22/2012	6:50 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.791	0	0	0	0.005	73.5	53	55.3	73.4	9.71	0.073	22	1	95.7	1
9/22/2012	6:51 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.79	0	0	0	0.005	73.5	53	55.3	73.4	9.71	0.073	22	1	95.7	1
9/22/2012	6:52 PM	72.6	72.6	72.6	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.79	0	0	0	0.005	73.3	53	55.1	73.2	9.72	0.073	23	1	100	1
9/22/2012	6:53 PM	72.5	72.6	72.5	83	67	0	---	0	0	---	72.5	74.3	74.3	29.79	0	0	0	0.005	73.3	53	55.1	73.2	9.72	0.073	23	1	100	1
9/22/2012	6:54 PM	72.6	72.6	72.5	83	67.1	0	---	0	0	---	72.6	74.4	74.4	29.789	0	0	0	0.005	73.3	53	55.1	73.2	9.72	0.073	24	1	100	1
9/22/2012	6:55 PM	72.5	72.5	72.5	83	67	0	---	0	0	---	72.5	74.3	74.3	29.79	0	0	0	0.005	73.3	53	55.1	73.2	9.72	0.073	23	1	100	1
9/22/2012	6:56 PM	72.5	72.5	72.5	83	67	0	---	0	0	---	72.5	74.3	74.3	29.788	0	0	0	0.005	73.3	53	55.1	73.2	9.72	0.073	23	1	100	1
9/22/2012	6:57 PM	72.5	72.5	72.5	83	67	0	---	0	0	---	72.5	74.3	74.3	29.789	0	0	0	0.005	73.1	53	54.9	72.9	9.73	0.0731	23	1	100	1
9/22/2012	6:58 PM	72.5	72.5	72.5	83	67	0	---	0	0	---	72.5	74.3	74.3	29.789	0	0	0	0.005	73.1	53	54.9	72.9	9.73	0.0731	23	1	100	1
9/22/2012	6:59 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.791	0	0	0	0.005	73.1	53	54.9	72.9	9.73	0.0731	23	1	100	1
9/22/2012	7:00 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.789	0	0	0	0.005	73	53	54.9	72.8	9.73	0.0731	23	1	100	1
9/22/2012	7:01 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.793	0	0	0	0.005	73	53	54.9	72.8	9.73	0.0731	23	1	100	1
9/22/2012	7:02 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.791	0	0	0	0.005	73	53	54.9	72.8	9.73	0.0731	23	1	100	1
9/22/2012	7:03 PM	72.4	72.5	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.792	0	0	0	0.005	73	53	54.9	72.8	9.73	0.0731	22	1	95.7	1
9/22/2012	7:04 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.792	0	0	0	0.005	72.8	53	54.7	72.5	9.74	0.0731	24	1	100	1
9/22/2012	7:05 PM	72.4	72.5	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.793	0	0	0	0.005	72.8	53	54.7	72.5	9.74	0.0731	22	1	95.7	1
9/22/2012	7:06 PM	72.5	72.5	72.4	83	67	0	---	0	0	---	72.5	74.3	74.3	29.791	0	0	0	0.005	72.8	53	54.7	72.5	9.74	0.0731	24	1	100	1
9/22/2012	7:07 PM	72.4	72.5	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.792	0	0	0	0.005	72.8	53	54.7	72.5	9.74	0.0731	23	1	100	1
9/22/2012	7:08 PM	72.4	72.4	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.792	0	0	0	0.005	72.6	53	54.5	72.2	9.75	0.0732	24	1	100	1
9/22/2012	7:09 PM	72.4	72.4	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.79	0	0	0	0.005	72.6	53	54.5	72.2	9.75	0.0732	23	1	100	1
9/22/2012	7:10 PM	72.4	72.4	72.4	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.79	0	0	0	0.005	72.6	53	54.5	72.2	9.75	0.0732	23	1	100	1
9/22/2012	7:11 PM	72.4	72.4	72.3	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.79	0	0	0	0.005	72.4	53	54.3	71.9	9.75	0.0732	24	1	100	1
9/22/2012	7:12 PM	72.3	72.4	72.3	84	67.2	0	---	0	0	---	72.3	74.1	74.1	29.788	0	0	0	0.005	72.4	53	54.3	71.9	9.75	0.0732	22	1	95.7	1
9/22/2012	7:13 PM	72.3	72.3	72.3	84	67.2	0	---	0	0	---	72.3	74.1	74.1	29.788	0	0	0	0.005	72.4	53	54.3	71.9	9.75	0.0732	24	1	100	1
9/22/2012	7:14 PM	72.2	72.3	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.788	0	0	0	0.005	72.4	53	54.3	71.9	9.75	0.0732	23	1	100	1
9/22/2012	7:15 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.788	0	0	0	0.005	72.3	54	54.7	71.9	9.9	0.0732	23	1	100	1
9/22/2012	7:16 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.788	0	0	0	0.005	72.3	54	54.7	71.9	9.9	0.0732	24	1	100	1
9/22/2012	7:17 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.789	0	0	0	0.005	72.3	54	54.7	71.9	9.9	0.0732	23	1	100	1
9/22/2012	7:18 PM	72.1	72.2	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.789	0	0	0	0.005	72.3	54	54.7	71.9	9.9	0.0732	23	1	100	1
9/22/2012	7:19 PM	72.1	72.2	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.791	0	0	0	0.005	72.1	54	54.5	71.6	9.91	0.0732	23	1	100	1
9/22/2012	7:20 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.792	0	0	0	0.005	72.1	54	54.5	71.6	9.91	0.0732	24	1	100	1
9/22/2012	7:21 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	72.1	54	54.5	71.6	9.91	0.0732	23	1	100	1
9/22/2012	7:22 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	71.9	54	54.3	71.3	9.91	0.0733	23	1	100	1
9/22/2012	7:23 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	71.9	54	54.3	71.3	9.91	0.0733	24	1	100	1
9/22/2012	7:24 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.793	0	0	0	0.005	71.9	54	54.3	71.3	9.91	0.0733	23	1	100	1
9/22/2012	7:25 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.792	0	0	0	0.005	71.9	54	54.3	71.3	9.91	0.0733	23	1	100	1
9/22/2012	7:26 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.793	0	0	0	0.005	71.8	54	54.3	71.1	9.91	0.0733	23	1	100	1
9/22/2012	7:27 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.793	0	0	0	0.005	71.8	54	54.3	71.1	9.91	0.0733	22	1	95.7	1
9/22/2012	7:28 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	71.8	54	54.3	71.1	9.91	0.0733	23	1	100	1
9/22/2012	7:29 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	22	1	95.7	1
9/22/2012	7:30 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	23	1	100	1
9/22/2012	7:31 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.795	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	23	1	100	1
9/22/2012	7:32 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	23	1	100	1
9/22/2012	7:33 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.795	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:34 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:35 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	23	1	100	1
9/22/2012	7:36 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:37 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:38 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.799	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:39 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:40 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:41 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	22	1	95.7	1
9/22/2012	7:42 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.801	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:43 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:44 PM	72	72.1	72	84	66.9	0	---	0	0

Meteorological Data
Equity IRM

9/22/2012	9:03 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:04 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:05 PM	72.1	72.2	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:06 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:07 PM	72.2	72.2	72.2	83	66.7	0	---	0	0	---	72.2	73.9	73.9	29.793	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:08 PM	72.3	72.3	72.2	83	66.8	0	---	0	0	---	72.3	74	74	29.795	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:09 PM	72.4	72.4	72.3	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:10 PM	72.4	72.4	72.4	82	66.6	0	---	0	0	---	72.4	74.1	74.1	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:11 PM	72.5	72.5	72.4	82	66.7	0	---	0	0	---	72.5	74.2	74.2	29.8	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:12 PM	72.6	72.6	72.5	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.803	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:13 PM	72.6	72.6	72.6	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.808	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:14 PM	72.7	72.7	72.6	82	66.9	0	---	0	0	---	72.7	74.5	74.5	29.81	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:15 PM	72.8	72.8	72.7	82	67	0	---	0	0	---	72.8	74.6	74.6	29.815	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:16 PM	72.8	72.8	72.8	82	67	0	---	0	0	---	72.8	74.6	74.6	29.819	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:17 PM	72.9	72.9	72.8	82	67.1	0	---	0	0	---	72.9	74.8	74.8	29.82	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:18 PM	72.9	72.9	72.9	81	66.7	0	---	0	0	---	72.9	74.7	74.7	29.822	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:19 PM	73	73	72.9	81	66.8	0	---	0	0	---	73	74.9	74.9	29.823	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:20 PM	73	73	73	81	66.8	0	---	0	0	---	73	74.9	74.9	29.823	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:21 PM	73.1	73.1	73	80	66.6	0	---	0	0	---	73.1	74.9	74.9	29.823	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:22 PM	73.1	73.1	73.1	79	66.2	0	---	0	0	---	73.1	74.9	74.9	29.826	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:23 PM	73.1	73.1	73.1	78	65.8	0	---	0	0	---	73.1	74.8	74.8	29.825	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:24 PM	73.2	73.2	73.1	78	65.9	0	---	0	0	---	73.2	74.9	74.9	29.825	0	0	0	0.006	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:25 PM	73.2	73.2	73.2	78	65.9	0	---	0	0	---	73.2	74.9	74.9	29.824	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	23	1	100	1
9/22/2012	9:26 PM	73.2	73.2	73.2	78	65.9	0	---	0	0	---	73.2	74.9	74.9	29.824	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	24	1	100	1
9/22/2012	9:27 PM	73.2	73.2	73.2	78	65.9	0	---	0	0	---	73.2	74.9	74.9	29.824	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	22	1	95.7	1
9/22/2012	9:28 PM	73.3	73.3	73.2	77	65.7	0	---	0	0	---	73.3	75	75	29.825	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	24	1	100	1
9/22/2012	9:29 PM	73.3	73.3	73.2	77	65.7	0	---	0	0	---	73.3	75	75	29.825	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	23	1	100	1
9/22/2012	9:30 PM	73.2	73.3	73.2	75	64.8	0	---	0	0	---	73.2	74.8	74.8	29.826	0	0	0	0.006	69.2	55	52.3	68.1	10.17	0.0738	24	1	100	1
9/22/2012	9:31 PM	73.2	73.2	73.2	73	64	0	---	0	0	---	73.2	74.6	74.6	29.825	0	0	0	0.006	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:32 PM	73.2	73.2	73.2	71	63.2	0	---	0	0	---	73.2	74.5	74.5	29.826	0	0	0	0.006	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:33 PM	73.1	73.2	73.1	71	63.1	0	---	0	0	---	73.1	74.3	74.3	29.831	0	0	0	0.006	69.4	55	52.5	68.3	10.16	0.0738	24	1	100	1
9/22/2012	9:34 PM	73	73.1	73	71	63	0	---	0	0	---	73	74.2	74.2	29.832	0	0	0	0.006	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:35 PM	72.9	73	72.9	71	62.9	0	---	0	0	---	72.9	74	74	29.838	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:36 PM	72.8	72.9	72.8	71	62.8	0	---	0	0	---	72.8	73.9	73.9	29.838	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:37 PM	72.6	72.8	72.6	73	63.4	0	---	0	0	---	72.6	73.8	73.8	29.846	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:38 PM	72.4	72.6	72.4	74	63.6	0	---	0	0	---	72.4	73.5	73.5	29.852	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0738	24	1	100	1
9/22/2012	9:39 PM	72.1	72.4	72.1	75	63.7	0	---	0	0	---	72.1	73.1	73.1	29.852	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0738	23	1	100	1
9/22/2012	9:40 PM	71.7	72	71.7	76	63.7	0	---	0	0	---	71.7	72.7	72.7	29.853	0.01	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0738	23	1	100	1
9/22/2012	9:41 PM	71.3	71.6	71.3	77	63.7	0	---	0	0	---	71.3	72.3	72.3	29.851	0.01	0.56	0	0.004	69.6	55	52.7	68.4	10.16	0.0738	22	1	95.7	1
9/22/2012	9:42 PM	70.8	71.2	70.8	79	64	0	---	0	0	---	70.8	72	72	29.85	0.03	2.24	0	0.004	69.6	55	52.7	68.4	10.16	0.0738	23	1	100	1
9/22/2012	9:43 PM	70.3	70.7	70.3	81	64.2	0	---	0	0	---	70.3	71.5	71.5	29.85	0	0.43	0	0.004	69.6	55	52.7	68.4	10.16	0.0738	24	1	100	1
9/22/2012	9:44 PM	69.7	70.2	69.7	82	64	0	---	0	0	---	69.7	71.1	71.1	29.848	0.01	0.43	0	0.003	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:45 PM	69.3	69.7	69.3	83	63.9	0	---	0	0	---	69.3	70.9	70.9	29.848	0	0.29	0	0.003	69.4	55	52.5	68.3	10.16	0.0738	24	1	100	1
9/22/2012	9:46 PM	69	69.2	69	84	64	0	---	0	0	---	69	70.7	70.7	29.848	0	0.27	0	0.003	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:47 PM	68.7	68.9	68.7	84	63.7	0	---	0	0	---	68.7	70.4	70.4	29.851	0	0.18	0	0.003	69.4	55	52.5	68.3	10.16	0.0738	24	1	100	1
9/22/2012	9:48 PM	68.6	68.7	68.6	86	64.2	0	---	0	0	---	68.6	70.3	70.3	29.851	0	0.14	0	0.002	69.4	55	52.5	68.3	10.16	0.0738	23	1	100	1
9/22/2012	9:49 PM	68.4	68.5	68.4	86	64	0	---	0	0	---	68.4	70.1	70.1	29.85	0.01	0.14	0	0.002	69.2	56	52.8	68.2	10.37	0.0739	23	1	100	1
9/22/2012	9:50 PM	68.3	68.3	68.3	86	63.9	0	---	0	0	---	68.3	69.9	69.9	29.849	0	0.13	0	0.002	69.2	56	52.8	68.2	10.37	0.0738	24	1	100	1
9/22/2012	9:51 PM	68.1	68.2	68.1	87	64.1	0	---	0	0	---	68.1	69.7	69.7	29.847	0	0.13	0	0.002	69.2	56	52.8	68.2	10.37	0.0738	23	1	100	1
9/22/2012	9:52 PM	68	68.1	68	87	64	0	---	0	0	---	68	69.6	69.6	29.848	0	0.13	0	0.002	69	56	52.6	68.1	10.37	0.0739	24	1	100	1
9/22/2012	9:53 PM	67.9	68	67.9	88	64.2	0	---	0	0	---	67.9	69.5	69.5	29.846	0.01	0.14	0	0.002	69	56	52.6	68.1	10.37	0.0739	23	1	100	1
9/22/2012	9:54 PM	67.9	68	67.9	88	64.2	0	---	0	0	---	67.9	69.5	69.5	29.847	0	0.14	0	0.002	69	56	52.6	68.1	10.37	0.0739	23	1	100	1
9/22/2012	9:55 PM	67.8	67.9	67.8	88	64.1	0	---	0	0	---	67.8	69.4	69.4	29.844	0.01	0.27	0	0.002	69	56	52.6	68.1	10.37	0.0739	24	1	100	1
9/22/2012	9:56 PM	67.7	67.8	67.7	88	64	0	---	0	0	---	67.7	69.3	69.3	29.841	0	0.27	0	0.002	68.9	56	52.6	68	10.37	0.0739	23	1	100	1
9/22/2012	9:57 PM	67.7	67.7	67.7	89	64.3	0	---	0	0	---	67.7	69.3	69.3	29.843	0	0.26	0	0.002	68.9	56	52.6	68	10.37	0.0739	24	1	100	1
9/22/2012	9:58 PM	67.6	67.7	67.6	89	64.2	0	---	0	0	---	67.6	69.2	69.2	29.842	0	0.19	0	0.002	68.9	56	52.6	68	10.37	0.0739	22	1	95.7	1
9/22/2012	9:59 PM	67.6	67.6	67.6	90	64.6	0	---	0	0	---	67.6	69.2	69.2	29.842	0	0.14	0	0.002	68.7	56	52.4	67.8	10.38	0.0739	24	1	100	1
9/22/2012	10:00 PM	67.5	67.5	67.5	90	64.5	0	---	0	0	---	67.5	69.1	69.1	29.844	0	0.12	0	0.002	68.7	56	52.4	67.8	10.38	0.0739	23	1	100	1
9/22/2012	10:01 PM	67.4	67.5	67.4	89	64	0	---	0	0	---	67.4	68.9	68.9	29.844	0	0.1	0	0.002	68.7	56	52.4	67.8	10.38	0.0739	23	1	100	1
9/22/2012	10:02 PM	67.4	67.5	67.4	89	64	0	---	0	0	---	67.4	68.9	68.9	29.842	0	0.08	0	0.002	68.7	56	52.4	67.8	10.38	0.0739	23	1	100	1
9/22/2012	10:03 PM	67.4	67.4	67.4	89	64	0	---	0	0	---	67.4	68.9	68.9	29.841	0	0.07	0	0.002	68.5	56	52.2	67.7	10.38	0.074	23	1	100	1
9/22/2012	10:04 PM	67.4	67.4	67.4	90	64.4	0	---	0	0	---	67.4	69	69	29.84	0	0.06	0	0.002	68.5	56	52.2	67.7	10.38	0.0739	23	1	100	1
9/22/2012	10:05 PM	67.3	67.4	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.838	0	0.06	0	0.002	68.5	56	52.2	67.7	10.38	0.0739	23	1	100	1
9/22/2012	10:06 PM	67.3	67.3	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.836	0	0.05	0	0.002	68.4	56	52.1	67.6	10.38	0.074	22	1	95.7	1
9/22/2012	10:07 PM	67.3	67.3	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.84	0	0.05	0	0.002	68.4	56	52.1	67.6	10.38	0.074	24	1	100	1
9/22/2012	10:08 PM	67.3	67.3	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.843	0	0.05	0	0.002	68.4	56	52.1	67.6	10.38	0.074	22	1	95.7	1
9/22/2012	10:09 PM	67.3	67.3	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.844	0	0.04	0	0.002	68.4	56	52.1	67.6	10.38	0.074	24	1	100	1
9/22/2012	10:10 PM	67.3	67.3	67.2	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.845	0	0.04	0	0.002	68.2	56	51.9	67.5	10.39	0.074	22	1	95.7	1
9/22/2012	10:11 PM	67.3	67.3	67.2	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.846	0	0.04	0	0.002	68.2	56	51.9	67.5	10.39	0.074	23	1	100	1
9/22/2012	10:12 PM	67.3	67.3	67.2	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.847	0	0	0	0.002	68.2	56	51.9	67.5	10.39	0.074	23	1	100	1
9/22/2012	10:13 PM	67.3	67.3	67.3	89	63.9	0	---	0	0	---	67.3	68.8	68.8	29.848	0	0	0	0.002	68.2	56	51.9	67.5	10.39	0.074	22	1	95.7	1
9/22/2012	10:14 PM	67.3	67.3	67.3	88	63.6	0	---	0	0	---	67.3	68.8	68.8	29.847	0	0	0	0.002	68	56	51.7	67.3	10.39	0.0741	24	1	100	1
9/22/2012	10:15 PM	67.3	67.3	67.2	88	63.6	0	---	0	0	---	67.3	68.8	68.8	29.848	0	0	0	0.002	68	56	51.7	67.3	10.39	0.0741	22	1	95.7	1
9/22/2012	10:16 PM	67.3	67.3	67.3	88	63.6	0	---	0	0	---	67.3	68.8	68.8	29.849	0	0	0	0.002	68	56	51.7	67.3	10.39	0.0741	24	1	100	1
9/22/2012	10:17 PM	67.3	67.3	67.3	88	63.6	0	---	0	0	---	67.3	68.8	68.8	29.85	0	0	0	0.002	68	56	51.7	67.3	10.39	0.0741	23	1	100	1
9/22/2012	10:18 PM	67.3	67.3	67.3	88	63.6	0	---	0	0	---	67.3	68.8	68.8	29.848	0	0	0	0.002	68	56	51.7	67.3	10.39	0.0741	23	1	100	1
9/22/2012	10:19 PM	67.4	67.4	67.3	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.846	0	0	0	0.002	67.9	56	51.6	67.2	10.39	0.0741	24	1	100	1
9/22/2012	10:20 PM	67.4	67.4	67.3	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.845	0	0	0	0.002	67.9	56	51.6	67.2	10.39	0.0741	23	1	100	1
9/22/2012	10:21 PM	67.4	67.4	67.3	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.846	0	0	0	0.002	67.9	56	51.6	67.2	10.39	0.0741	24	1	100	1
9/22/2012	10:22 PM	67.4	67.4	67.3	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.843	0	0	0	0.002	67.9	56	51.6	67.2	10.39	0.0741	23	1	100	1
9/22/2012	10:23 PM	67.4	67.4	67.3	89	64	0	---	0	0	---	67.4	68.9	68.9	29.845	0	0	0	0.002	67.7	56	51.4	67	10.4	0.0741	24	1	100	1
9/22/2012	10:24 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.843	0	0	0	0.002	67.7	56	51.4	67	10.4	0.0741	23	1	100	1
9/22/2012	10:25 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.843	0	0	0	0.002	67.7	56	51.4	67	10.4	0.0741	23	1	100	1
9/22/2012	10:26 PM	67.4	67.4	67.4	89	64	0	---	0	0	---	67.4	68.9	68.9	29.846	0	0	0	0.002	67.7	56	51.4	67	10.4	0.0741	24	1	100	1
9/22/2012	10:27 PM	67.4	67.4	67.4	89	64	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.7	56	51.4	67	10.4	0.0741	23	1	100	1
9/22/2012	10:28 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.85	0	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	24	1	100	1
9/22/2012	10:29 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.85	0	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	23	1	100	1
9/22/2012	10:30 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	23	1	100	1
9/22/2012	10:31 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	24	1	100	1
9/22/2012	10:32 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0.01	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	23	1	100	1
9/22/2012	10:33 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.847	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:34 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:35 PM	67.4	67.5	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:36 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:37 PM	67.5	67.5	67.4	88	63.8	0	---	0	0	---	67.5	69	69	29.849	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:38 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.847	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:39 PM	67.5	67.5	67.5	87	63.5	0	---	0	0	---	67.5	69	69	29.846	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:40 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.844	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:41 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.842	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:42 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:43 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:44 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843

Meteorological Data
Equity IRM

9/23/2012	12:03 AM	67.4	67.4	67.3	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.866	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:04 AM	67.3	67.4	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:05 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.865	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:06 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.864	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:07 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.863	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:08 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.862	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:09 AM	67.4	67.4	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.861	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:10 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.86	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:11 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:12 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:13 AM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:14 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.859	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	24	1	100	1
9/23/2012	12:15 AM	67.3	67.4	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.858	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:16 AM	67.3	67.3	67.3	80	60.9	0	---	0	0	---	67.3	68.5	68.5	29.859	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	24	1	100	1
9/23/2012	12:17 AM	67.3	67.3	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.858	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:18 AM	67.3	67.3	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.857	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	24	1	100	1
9/23/2012	12:19 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.857	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:20 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.86	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	23	1	100	1
9/23/2012	12:21 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.861	0	0	0	0.002	65.3	57	49.7	64.3	10.64	0.0745	24	1	100	1
9/23/2012	12:22 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.861	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	23	1	100	1
9/23/2012	12:23 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.862	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	24	1	100	1
9/23/2012	12:24 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.861	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	23	1	100	1
9/23/2012	12:25 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.862	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	23	1	100	1
9/23/2012	12:26 AM	67.2	67.2	67.2	82	61.5	0	---	0	0	---	67.2	68.4	68.4	29.861	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	24	1	100	1
9/23/2012	12:27 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.862	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	23	1	100	1
9/23/2012	12:28 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	24	1	100	1
9/23/2012	12:29 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	65.1	57	49.5	64.1	10.65	0.0746	23	1	100	1
9/23/2012	12:30 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	24	1	100	1
9/23/2012	12:31 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.861	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:32 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:33 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	24	1	100	1
9/23/2012	12:34 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.859	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:35 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	24	1	100	1
9/23/2012	12:36 AM	67.2	67.2	67.2	82	61.5	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:37 AM	67.2	67.2	67.2	81	61.2	0	---	0	0	---	67.2	68.4	68.4	29.86	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:38 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.864	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	24	1	100	1
9/23/2012	12:39 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.864	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	23	1	100	1
9/23/2012	12:40 AM	67.3	67.3	67.2	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.864	0	0	0	0.002	64.9	57	49.3	63.9	10.65	0.0746	24	1	100	1
9/23/2012	12:41 AM	67.3	67.3	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.865	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:42 AM	67.3	67.3	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	12:43 AM	67.3	67.3	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:44 AM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:45 AM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:46 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.869	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:47 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.869	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:48 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.868	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	12:49 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.869	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:50 AM	67.6	67.6	67.5	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.87	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	12:51 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.87	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:52 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.871	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	24	1	100	1
9/23/2012	12:53 AM	67.7	67.7	67.6	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.87	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:54 AM	67.7	67.7	67.6	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.87	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:55 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	12:56 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.868	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:57 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	12:58 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.868	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	22	1	95.7	1
9/23/2012	12:59 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	1:00 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.867	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	1:01 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.868	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	23	1	100	1
9/23/2012	1:02 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.869	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0746	24	1	100	1
9/23/2012	1:03 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.871	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	23	1	100	1
9/23/2012	1:04 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.873	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	24	1	100	1
9/23/2012	1:05 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.873	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	23	1	100	1
9/23/2012	1:06 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.873	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	23	1	100	1
9/23/2012	1:07 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.873	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	24	1	100	1
9/23/2012	1:08 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.874	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	23	1	100	1
9/23/2012	1:09 AM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.874	0	0	0	0.002	64.8	57	49.2	63.7	10.65	0.0747	23	1	100	1
9/23/2012	1:10 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.874	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:11 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.874	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:12 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.873	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:13 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.872	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:14 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.871	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:15 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.872	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:16 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.871	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:17 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.872	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:18 AM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.872	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:19 AM	67.6	67.7	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.873	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:20 AM	67.6	67.7	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.872	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:21 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.873	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:22 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.873	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:23 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.874	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:24 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.875	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:25 AM	67.6	67.6	67.6	84	62.6	0	---	0	0	---	67.6	69	69	29.876	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:26 AM	67.6	67.6	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.875	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:27 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.876	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:28 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.877	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	24	1	100	1
9/23/2012	1:29 AM	67.5	67.5	67.5	84	62.5	0	---	0	0	---	67.5	68.9	68.9	29.878	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	22	1	95.7	1
9/23/2012	1:30 AM	67.4	67.5	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.877	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:31 AM	67.5	67.5	67.4	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.878	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:32 AM	67.4	67.4	67.4	85	62.7	0	---	0	0	---	67.4	68.8	68.8	29.878	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:33 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.877	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:34 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.877	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:35 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.878	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:36 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:37 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:38 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:39 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:40 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:41 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:42 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:43 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	58	49.4	63.5	10.75	0.0747	23	1	100	1
9/23

Meteorological Data
Equity IRM

9/23/2012	3:03 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.894	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:04 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:05 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:06 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:07 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:08 AM	68	68	68	71	58.2	0	---	0	0	---	68	68.7	68.7	29.893	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:09 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:10 AM	67.9	68	67.9	69	57.4	0	---	0	0	---	67.9	68.4	68.4	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	22	1	95.7	1
9/23/2012	3:11 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.89	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:12 AM	67.9	67.9	67.9	69	57.4	0	---	0	0	---	67.9	68.4	68.4	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	24	1	100	1
9/23/2012	3:13 AM	67.9	67.9	67.9	67	56.5	0	---	0	0	---	67.9	68.2	68.2	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	22	1	95.7	1
9/23/2012	3:14 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8	68.1	68.1	29.89	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	24	1	100	1
9/23/2012	3:15 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8	68.1	68.1	29.893	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:16 AM	67.8	67.8	67.8	67	56.4	0	---	0	0	---	67.8	68.1	68.1	29.891	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:17 AM	67.8	67.8	67.8	68	56.9	0	---	0	0	---	67.8	68.2	68.2	29.894	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	24	1	100	1
9/23/2012	3:18 AM	67.7	67.7	67.7	67	56.3	0	---	0	0	---	67.7	68	68	29.893	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	23	1	100	1
9/23/2012	3:19 AM	67.7	67.7	67.7	68	56.8	0	---	0	0	---	67.7	68.1	68.1	29.894	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	24	1	100	1
9/23/2012	3:20 AM	67.7	67.7	67.7	68	56.8	0	---	0	0	---	67.7	68.1	68.1	29.895	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	23	1	100	1
9/23/2012	3:21 AM	67.7	67.7	67.7	68	56.8	0	---	0	0	---	67.7	68.1	68.1	29.895	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	24	1	100	1
9/23/2012	3:22 AM	67.6	67.7	67.6	69	57.1	0	---	0	0	---	67.6	68	68	29.894	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	23	1	100	1
9/23/2012	3:23 AM	67.6	67.7	67.6	68	56.7	0	---	0	0	---	67.6	68	68	29.892	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.0749	22	1	95.7	1
9/23/2012	3:24 AM	67.6	67.6	67.6	68	56.7	0	---	0	0	---	67.6	68	68	29.893	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	24	1	100	1
9/23/2012	3:25 AM	67.6	67.6	67.6	68	56.7	0	---	0	0	---	67.6	68	68	29.894	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	22	1	95.7	1
9/23/2012	3:26 AM	67.6	67.6	67.6	68	56.7	0	---	0	0	---	67.6	68	68	29.893	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.075	24	1	100	1
9/23/2012	3:27 AM	67.5	67.6	67.5	67	56.2	0	---	0	0	---	67.5	67.8	67.8	29.892	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.0749	22	1	95.7	1
9/23/2012	3:28 AM	67.5	67.6	67.5	67	56.2	0	---	0	0	---	67.5	67.8	67.8	29.892	0	0	0	0.002	63.3	58	48.3	62.1	10.75	0.0749	23	1	100	1
9/23/2012	3:29 AM	67.5	67.5	67.5	67	56.2	0	---	0	0	---	67.5	67.8	67.8	29.892	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:30 AM	67.5	67.5	67.5	67	56.2	0	---	0	0	---	67.5	67.8	67.8	29.895	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	22	1	95.7	1
9/23/2012	3:31 AM	67.4	67.5	67.4	66	55.6	0	---	0	0	---	67.4	67.6	67.6	29.894	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	24	1	100	1
9/23/2012	3:32 AM	67.4	67.4	67.4	67	56.1	0	---	0	0	---	67.4	67.6	67.6	29.897	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	22	1	95.7	1
9/23/2012	3:33 AM	67.4	67.4	67.4	67	56.1	0	---	0	0	---	67.4	67.6	67.6	29.896	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:34 AM	67.3	67.4	67.3	67	56	0	---	0	0	---	67.3	67.5	67.5	29.898	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:35 AM	67.3	67.3	67.3	66	55.5	0	---	0	0	---	67.3	67.4	67.4	29.897	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:36 AM	67.2	67.2	67.2	66	55.5	0	---	0	0	---	67.2	67.3	67.3	29.898	0	0	0	0.002	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:37 AM	67.1	67.2	67.1	66	55.4	0	---	0	0	---	67.1	67.2	67.2	29.898	0	0	0	0.001	63.2	58	48.2	62	10.75	0.075	23	1	100	1
9/23/2012	3:38 AM	67.1	67.1	67.1	67	55.8	0	---	0	0	---	67.1	67.3	67.3	29.898	0	0	0	0.001	63.2	58	48.2	62	10.75	0.075	24	1	100	1
9/23/2012	3:39 AM	67.1	67.1	67.1	66	55.4	0	---	0	0	---	67.1	67.2	67.2	29.898	0	0	0	0.001	63	58	48	61.8	10.75	0.075	23	1	100	1
9/23/2012	3:40 AM	67	67.1	67	67	55.7	0	---	0	0	---	67	67.2	67.2	29.898	0	0	0	0.001	63	58	48	61.8	10.75	0.075	23	1	100	1
9/23/2012	3:41 AM	67	67	67	68	56.1	0	---	0	0	---	67	67.2	67.2	29.898	0	0	0	0.001	63	58	48	61.8	10.75	0.075	24	1	100	1
9/23/2012	3:42 AM	67	67	67	67	55.7	0	---	0	0	---	67	67.2	67.2	29.899	0	0	0	0.001	63	58	48	61.8	10.75	0.075	23	1	100	1
9/23/2012	3:43 AM	67	67	67	67	55.7	0	---	0	0	---	67	67.2	67.2	29.898	0	0	0	0.001	63	58	48	61.8	10.75	0.075	24	1	100	1
9/23/2012	3:44 AM	66.9	67	66.9	66	55.2	0	---	0	0	---	66.9	67	67	29.897	0	0	0	0.001	63	58	48	61.8	10.75	0.075	23	1	100	1
9/23/2012	3:45 AM	66.9	66.9	66.9	66	55.2	0	---	0	0	---	66.9	67	67	29.897	0	0	0	0.001	62.9	58	47.9	61.7	10.75	0.075	22	1	95.7	1
9/23/2012	3:46 AM	66.9	66.9	66.9	67	55.6	0	---	0	0	---	66.9	67	67	29.896	0	0	0	0.001	62.9	58	47.9	61.7	10.75	0.075	24	1	100	1
9/23/2012	3:47 AM	66.9	66.9	66.9	67	55.6	0	---	0	0	---	66.9	67	67	29.897	0	0	0	0.001	62.9	58	47.9	61.7	10.75	0.075	23	1	100	1
9/23/2012	3:48 AM	66.8	66.9	66.8	67	55.5	0	---	0	0	---	66.8	66.9	66.9	29.897	0	0	0	0.001	62.9	58	47.9	61.7	10.75	0.075	24	1	100	1
9/23/2012	3:49 AM	66.8	66.8	66.8	67	55.5	0	---	0	0	---	66.8	66.9	66.9	29.899	0	0	0	0.001	62.9	58	47.9	61.7	10.75	0.075	23	1	100	1
9/23/2012	3:50 AM	66.8	66.8	66.8	67	55.5	0	---	0	0	---	66.8	66.9	66.9	29.903	0	0	0	0.001	62.7	58	47.7	61.5	10.75	0.0751	24	1	100	1
9/23/2012	3:51 AM	66.7	66.8	66.7	67	55.4	0	---	0	0	---	66.7	66.8	66.8	29.903	0	0	0	0.001	62.7	58	47.7	61.5	10.75	0.0751	23	1	100	1
9/23/2012	3:52 AM	66.7	66.7	66.7	67	55.4	0	---	0	0	---	66.7	66.8	66.8	29.903	0	0	0	0.001	62.7	58	47.7	61.5	10.75	0.0751	23	1	100	1
9/23/2012	3:53 AM	66.6	66.7	66.6	67	55.3	0	---	0	0	---	66.6	66.7	66.7	29.904	0	0	0	0.001	62.7	58	47.7	61.5	10.75	0.0751	24	1	100	1
9/23/2012	3:54 AM	66.6	66.6	66.6	66	54.9	0	---	0	0	---	66.6	66.6	66.6	29.903	0	0	0	0.001	62.7	58	47.7	61.5	10.75	0.0751	23	1	100	1
9/23/2012	3:55 AM	66.6	66.6	66.6	66	54.9	0	---	0	0	---	66.6	66.6	66.6	29.903	0	0	0	0.001	62.5	58	47.5	61.2	10.75	0.0751	24	1	100	1
9/23/2012	3:56 AM	66.5	66.6	66.5	67	55.2	0	---	0	0	---	66.5	66.6	66.6	29.901	0	0	0	0.001	62.5	58	47.5	61.2	10.75	0.0751	23	1	100	1
9/23/2012	3:57 AM	66.5	66.5	66.5	66	54.8	0	---	0	0	---	66.5	66.5	66.5	29.902	0	0	0	0.001	62.5	58	47.5	61.2	10.75	0.0751	23	1	100	1
9/23/2012	3:58 AM	66.5	66.5	66.5	67	55.2	0	---	0	0	---	66.5	66.6	66.6	29.903	0	0	0	0.001	62.5	58	47.5	61.2	10.75	0.0751	24	1	100	1
9/23/2012	3:59 AM	66.4	66.5	66.4	66	54.7	0	---	0	0	---	66.4	66.4	66.4	29.903	0	0	0	0.001	62.5	58	47.5	61.2	10.75	0.0751	22	1	95.7	1
9/23/2012	4:00 AM	66.4	66.5	66.4	67	55.1	0	---	0	0	---	66.4	66.4	66.4	29.904	0	0	0	0.001	62.4	58	47.4	61.1	10.75	0.0751	24	1	100	1
9/23/2012	4:01 AM	66.3	66.4	66.3	66	54.6	0	---	0	0	---	66.3	66.2	66.2	29.906	0	0	0	0.001	62.4	58	47.4	61.1	10.75	0.0751	23	1	100	1
9/23/2012	4:02 AM	66.3	66.3	66.3	67	55	0	---	0	0	---	66.3	66.3	66.3	29.906	0	0	0	0.001	62.4	58	47.4	61.1	10.75	0.0751	24	1	100	1
9/23/2012	4:03 AM	66.3	66.3	66.3	67	55	0	---	0	0	---	66.3	66.3	66.3	29.906	0	0	0	0.001	62.4	58	47.4	61.1	10.75	0.0751	23	1	100	1
9/23/2012	4:04 AM	66.3	66.3	66.3	67	55	0	---	0	0	---	66.3	66.3	66.3	29.907	0	0	0	0.001	62.2	58	47.2	60.9	10.75	0.0752	23	1	100	1
9/23/2012	4:05 AM	66.3	66.3	66.3	67	55	0	---	0	0	---	66.3	66.3	66.3	29.908	0	0	0	0.001	62.2	58	47.2	60.9	10.75	0.0752	24	1	100	1
9/23/2012	4:06 AM	66.2	66.3	66.2	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.909	0	0	0	0.001	62.2	58	47.2	60.9	10.75	0.0752	23	1	100	1
9/23/2012	4:07 AM	66.2	66.2	66.2	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.907	0	0	0	0.001	62.2	58	47.2	60.9	10.75	0.0752	24	1	100	1
9/23/2012	4:08 AM	66.2	66.2	66.2	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.909	0	0	0	0.001	62.2	59	47.7	61	10.95	0.0752	23	1	100	1
9/23/2012	4:09 AM	66.2	66.2	66.1	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.907	0	0	0	0.001	62.1	59	47.6	60.8	10.95	0.0752	23	1	100	1
9/23/2012	4:10 AM	66.1	66.2	66.1	68	55.2	0	---	0	0	---	66.1	66.2	66.2	29.909	0	0	0	0.001	62.1	59	47.6	60.8	10.95	0.0752	24	1	100	1
9/23/2012	4:11 AM	66.2	66.2	66.1	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.906	0	0	0	0.001	62.1	59	47.6	60.8	10.95	0.0752	23	1	100	1
9/23/2012	4:12 AM	66.1	66.1	66.1	68	55.2	0	---	0	0	---	66.1	66.2	66.2	29.907	0	0	0	0.001	62.1	59	47.6	60.8	10.95	0.0752	24	1	100	1
9/23/2012	4:13 AM	66.1	66.1	66.1	67	54.8	0	---	0	0	---	66.1	66.1	66.1	29.906	0	0	0	0.001	61.9	59	47.4	60.6	10.95	0.0752	23	1	100	1
9/23/2012	4:14 AM	66.1	66.1	66.1	67	54.8	0	---	0	0	---	66.1	66.1	66.1	29.906	0	0	0	0.001	61.9	59	47.4	60.6	10.95	0.0752	24	1	100	1
9/23/2012	4:15 AM	66.1	66.1	66.1	68	55.2	0	---	0	0	---	66.1	66.2	66.2	29.907	0	0	0	0.001	61.9	59	47.4	60.6	10.95	0.0752	22	1	95.7	1
9/23/2012	4:16 AM	66.2	66.2	66.1	68	55.3	0	---	0	0	---	66.2	66.3	66.3	29.907	0	0	0	0.001	61.9	59	47.4	60.6	10.95	0.0752	23	1	100	1
9/23/2012	4:17 AM	66.1	66.1	66.1	68	55.2	0	---	0	0	---	66.1	66.2	66.2	29.907	0	0	0	0.001	61.8	59	47.3	60.5	10.95	0.0752	23	1	100	1
9/23/2012	4:18 AM	66.1	66.1	66.1	68	55.2	0	---	0	0	---	66.1	66.2	66.2	29.909	0	0	0	0.001	61.8	59	47.3	60.5	10.95	0.0752	23	1	100	1
9/23/2012	4:19 AM	66	66.1	66	68	55.1	0	---	0	0	---	66	66	66	29.909	0	0	0	0.001	61.8	59	47.3	60.5	10.95	0.0752	23	1	100	1
9/23/2012	4:20 AM	66	66	66	68	55.1	0	---	0	0	---	66	66	66	29.909	0	0	0	0.001	61.8	59	47.3	60.5	10.95	0.0752	23	1	100	1
9/23/2012	4:21 AM	66	66	66	69	55.5	0	---	0	0	---	66	66.1	66.1	29.909	0	0	0	0.001	61.8	59	47.3	60.5	10.95	0.0752	22	1	95.7	1
9/23/2012	4:22 AM	66	66	66	68	55.1	0	---	0	0	---	66	66	66	29.91	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	23	1	100	1
9/23/2012	4:23 AM	66	66	65.9	68	55.1	0	---	0	0	---	66	66	66	29.91	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	23	1	100	1
9/23/2012	4:24 AM	66	66	65.9	68	55.1	0	---	0	0	---	66	66	66	29.912	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	23	1	100	1
9/23/2012	4:25 AM	65.9	66	65.9	69	55.4	0	---	0	0	---	65.9	66	66	29.913	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	23	1	100	1
9/23/2012	4:26 AM	65.9	66	65.9	69	55.4	0	---	0	0	---	65.9	66	66	29.914	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	22	1	95.7	1
9/23/2012	4:27 AM	65.9	65.9	65.9	69	55.4	0	---	0	0	---	65.9	66	66	29.914	0	0	0	0.001	61.6	59	47.1	60.3	10.95	0.0753	24	1	100	1
9/23/2012	4:28 AM	65.9	65.9	65.9	69	55.4	0	---	0	0	---	65.9	66	66	29.914	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	22	1	95.7	1
9/23/2012	4:29 AM	65.9	65.9	65.8	69	55.4	0	---	0	0	---	65.9	66	66	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	24	1	100	1
9/23/2012	4:30 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	22	1	95.7	1
9/23/2012	4:31 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	24	1	100	1
9/23/2012	4:32 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	23	1	100	1
9/23/2012	4:33 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.917	0	0	0	0.001	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:34 AM	65.7	65.8	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	24	1	100	1
9/23/2012	4:35 AM	65.7	65.8	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:36 AM	65.7	65.7	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	24	1	100	1
9/23/2012	4:37 AM	65.7	65.7	65.7	70	55.6	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:38 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:39 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:40 AM	65.6	65.6	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.916	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:41 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.919	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:42 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.921	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:43 AM	65.6	65.6	65.5	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.922	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:44 AM	65.5	65.6	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:45 AM	65.5	65.5	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923

Meteorological Data
Equity IRM

9/23/2012	6:03 AM	60.8	60.9	60.8	70	51	0	---	0	0	---	60.8	60.2	60.2	29.966	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:04 AM	60.7	60.8	60.7	71	51.2	0	---	0	0	---	60.7	60.2	60.2	29.965	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:05 AM	60.5	60.6	60.5	71	51	0	---	0	0	---	60.5	60	60	29.968	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:06 AM	60.4	60.5	60.4	72	51.3	0	---	0	0	---	60.4	59.9	59.9	29.971	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	22	1	95.7	1
9/23/2012	6:07 AM	60.3	60.4	60.3	72	51.2	0	---	0	0	---	60.3	59.8	59.8	29.972	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	22	1	95.7	1
9/23/2012	6:08 AM	60.2	60.3	60.2	72	51.1	0	---	0	0	---	60.2	59.7	59.7	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:09 AM	60.2	60.2	60.2	71	50.8	0	---	0	0	---	60.2	59.6	59.6	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:10 AM	60.1	60.1	60.1	72	51	0	---	0	0	---	60.1	59.6	59.6	29.969	0	0	0.003	0	59.4	60	45.5	58.1	11.14	0.0758	23	1	100	1
9/23/2012	6:11 AM	60	60.1	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.969	0	0	0.003	0	59.3	60	45.4	58	11.14	0.0758	23	1	100	1
9/23/2012	6:12 AM	60	60	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.972	0	0	0.003	0	59.3	59	45	57.9	10.95	0.0758	20	1	87	1
9/23/2012	6:13 AM	59.9	60	59.9	73	51.2	0	---	0	0	---	59.9	59.4	59.4	29.972	0	0	0.004	0	59.3	59	45	57.9	10.95	0.0758	23	1	100	1
9/23/2012	6:14 AM	59.9	59.9	59.9	73	51.2	0	---	0	0	---	59.9	59.4	59.4	29.971	0	0	0.004	0	59.1	59	44.8	57.7	10.95	0.0759	23	1	100	1
9/23/2012	6:15 AM	59.8	59.9	59.8	73	51.1	0	---	0	0	---	59.8	59.3	59.3	29.97	0	0	0.004	0	59.1	60	45.2	57.8	11.13	0.0758	23	1	100	1
9/23/2012	6:16 AM	59.8	59.8	59.8	73	51.1	0	---	0	0	---	59.8	59.3	59.3	29.971	0	0	0.004	0	59.1	60	45.2	57.8	11.13	0.0759	23	1	100	1
9/23/2012	6:17 AM	59.8	59.8	59.8	73	51.1	0	---	0	0	---	59.8	59.3	59.3	29.97	0	0	0.004	0	59.1	60	45.2	57.8	11.13	0.0758	23	1	100	1
9/23/2012	6:18 AM	59.7	59.7	59.7	72	50.7	0	---	0	0	---	59.7	59.2	59.2	29.97	0	0	0.004	0	59	60	45.1	57.7	11.13	0.0759	23	1	100	1
9/23/2012	6:19 AM	59.6	59.7	59.6	72	50.6	0	---	0	0	---	59.6	59	59	29.969	0	0	0.004	0	59	60	45.1	57.7	11.13	0.0759	23	1	100	1
9/23/2012	6:20 AM	59.6	59.6	59.6	73	50.9	0	---	0	0	---	59.6	59.1	59.1	29.969	0	0	0.004	0	59	60	45.1	57.7	11.13	0.0759	24	1	100	1
9/23/2012	6:21 AM	59.5	59.6	59.5	72	50.5	0	---	0	0	---	59.5	58.9	58.9	29.972	0	0	0.004	0	58.8	60	44.9	57.5	11.13	0.0759	23	1	100	1
9/23/2012	6:22 AM	59.5	59.5	59.5	72	50.5	0	---	0	0	---	59.5	58.9	58.9	29.97	0	0	0.004	0	58.8	60	44.9	57.5	11.13	0.0759	24	1	100	1
9/23/2012	6:23 AM	59.4	59.5	59.4	72	50.4	0	---	0	0	---	59.4	58.8	58.8	29.972	0	0	0.004	0	58.8	60	44.9	57.5	11.13	0.0759	22	1	95.7	1
9/23/2012	6:24 AM	59.3	59.4	59.3	72	50.3	0	---	0	0	---	59.3	58.7	58.7	29.974	0	0	0.004	0	58.7	60	44.8	57.4	11.12	0.0759	23	1	100	1
9/23/2012	6:25 AM	59.3	59.3	59.3	72	50.3	0	---	0	0	---	59.3	58.7	58.7	29.975	0	0	0.004	0	58.7	60	44.8	57.4	11.12	0.0759	23	1	100	1
9/23/2012	6:26 AM	59.2	59.3	59.2	72	50.2	0	---	0	0	---	59.2	58.6	58.6	29.977	0	0	0.004	0	58.7	60	44.8	57.4	11.12	0.0759	23	1	100	1
9/23/2012	6:27 AM	59.2	59.2	59.2	72	50.2	0	---	0	0	---	59.2	58.6	58.6	29.978	0	0	0.004	0	58.7	60	44.8	57.4	11.12	0.0759	23	1	100	1
9/23/2012	6:28 AM	59.1	59.2	59.1	72	50.1	0	---	0	0	---	59.1	58.5	58.5	29.976	0	0	0.004	0	58.5	60	44.7	57.2	11.12	0.076	23	1	100	1
9/23/2012	6:29 AM	59.1	59.1	59.1	71	49.7	0	---	0	0	---	59.1	58.4	58.4	29.976	0	0	0.004	0	58.5	60	44.7	57.2	11.12	0.076	23	1	100	1
9/23/2012	6:30 AM	59.1	59.1	59.1	72	50.1	0	---	0	0	---	59.1	58.5	58.5	29.979	0	0	0.004	0	58.5	60	44.7	57.2	11.12	0.076	23	1	100	1
9/23/2012	6:31 AM	59.1	59.1	59.1	71	49.7	0	---	0	0	---	59.1	58.4	58.4	29.98	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.076	23	1	100	1
9/23/2012	6:32 AM	59	59.1	59	71	49.6	0	---	0	0	---	59	58.3	58.3	29.978	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.076	24	1	100	1
9/23/2012	6:33 AM	59.1	59.1	59	71	49.7	0	---	0	0	---	59.1	58.4	58.4	29.982	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.076	23	1	100	1
9/23/2012	6:34 AM	59.1	59.1	59	71	49.7	0	---	0	0	---	59.1	58.4	58.4	29.982	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.076	24	1	100	1
9/23/2012	6:35 AM	59	59	59	70	49.2	0	---	0	0	---	59	58.3	58.3	29.982	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.076	23	1	100	1
9/23/2012	6:36 AM	59.1	59.1	59	71	49.7	0	---	0	0	---	59.1	58.4	58.4	29.98	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.076	23	1	100	1
9/23/2012	6:37 AM	59.1	59.1	59	72	50.1	0	---	0	0	---	59.1	58.5	58.5	29.982	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.076	24	1	100	1
9/23/2012	6:38 AM	59	59.1	59	72	50	0	---	0	0	---	59	58.4	58.4	29.983	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	23	1	100	1
9/23/2012	6:39 AM	59	59	59	71	49.6	0	---	0	0	---	59	58.3	58.3	29.983	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	24	1	100	1
9/23/2012	6:40 AM	59	59	59	71	49.6	0	---	0	0	---	59	58.3	58.3	29.987	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	23	1	100	1
9/23/2012	6:41 AM	58.9	59	58.9	71	49.5	0	---	0	0	---	58.9	58.2	58.2	29.986	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	24	1	100	1
9/23/2012	6:42 AM	58.9	59	58.9	71	49.5	0	---	0	0	---	58.9	58.2	58.2	29.987	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	23	1	100	1
9/23/2012	6:43 AM	58.9	58.9	58.9	71	49.5	0	---	0	0	---	58.9	58.2	58.2	29.987	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	23	1	100	1
9/23/2012	6:44 AM	58.9	58.9	58.9	71	49.5	0	---	0	0	---	58.9	58.2	58.2	29.987	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	24	1	100	1
9/23/2012	6:45 AM	58.9	58.9	58.9	72	49.9	0	---	0	0	---	58.9	58.3	58.3	29.987	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0761	23	1	100	1
9/23/2012	6:46 AM	58.9	58.9	58.9	72	49.9	0	---	0	0	---	58.9	58.3	58.3	29.985	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0761	24	1	100	1
9/23/2012	6:47 AM	58.8	58.9	58.8	71	49.4	0	---	0	0	---	58.8	58.1	58.1	29.987	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0761	22	1	95.7	1
9/23/2012	6:48 AM	58.8	58.9	58.8	70	49	0	---	0	0	---	58.8	58.1	58.1	29.986	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0761	23	1	100	1
9/23/2012	6:49 AM	58.8	58.8	58.8	71	49.4	0	---	0	0	---	58.8	58.1	58.1	29.987	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	24	1	100	1
9/23/2012	6:50 AM	58.7	58.8	58.7	70	48.9	0	---	0	0	---	58.7	58	58	29.986	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	23	1	100	1
9/23/2012	6:51 AM	58.7	58.7	58.7	70	48.9	0	---	0	0	---	58.7	58	58	29.986	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	24	1	100	1
9/23/2012	6:52 AM	58.6	58.7	58.6	70	48.8	0	---	0	0	---	58.6	57.9	57.9	29.985	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0761	23	1	100	1
9/23/2012	6:53 AM	58.6	58.6	58.6	71	49.2	0	---	0	0	---	58.6	57.9	57.9	29.985	0	0	0.004	0	57.4	60	43.6	56.1	11.1	0.0762	23	1	100	1
9/23/2012	6:54 AM	58.5	58.6	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	29.987	0	0	0.005	0	57.4	60	43.6	56.1	11.1	0.0762	23	1	100	1
9/23/2012	6:55 AM	58.5	58.6	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	29.989	0	0	0.005	0	57.4	60	43.6	56.1	11.1	0.0762	23	1	100	1
9/23/2012	6:56 AM	58.5	58.5	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	29.99	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	24	1	100	1
9/23/2012	6:57 AM	58.5	58.5	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	29.987	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	23	1	100	1
9/23/2012	6:58 AM	58.4	58.5	58.4	71	49	0	---	0	0	---	58.4	57.7	57.7	29.988	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	24	1	100	1
9/23/2012	6:59 AM	58.4	58.4	58.4	71	49	0	---	0	0	---	58.4	57.7	57.7	29.991	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	23	1	100	1
9/23/2012	7:00 AM	58.4	58.4	58.4	72	49.4	0	---	0	0	---	58.4	57.7	57.7	29.989	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0762	22	1	95.7	1
9/23/2012	7:01 AM	58.4	58.4	58.4	72	49.4	0	---	0	0	---	58.4	57.7	57.7	29.99	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0762	24	1	100	1
9/23/2012	7:02 AM	58.3	58.4	58.3	71	48.9	0	---	0	0	---	58.3	57.6	57.6	29.99	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0762	21	1	91.3	1
9/23/2012	7:03 AM	58.3	58.3	58.3	71	48.9	0	---	0	0	---	58.3	57.6	57.6	29.99	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0762	24	1	100	1
9/23/2012	7:04 AM	58.3	58.3	58.3	72	49.3	0	---	0	0	---	58.3	57.6	57.6	29.991	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	21	1	91.3	1
9/23/2012	7:05 AM	58.2	58.3	58.2	71	48.8	0	---	0	0	---	58.2	57.5	57.5	29.994	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	21	1	91.3	1
9/23/2012	7:06 AM	58.2	58.2	58.2	71	48.8	0	---	0	0	---	58.2	57.5	57.5	29.991	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	24	1	100	1
9/23/2012	7:07 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.992	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	22	1	95.7	1
9/23/2012	7:08 AM	58.1	58.2	58.1	72	49.1	0	---	0	0	---	58.1	57.4	57.4	29.993	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:09 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.995	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	22	1	95.7	1
9/23/2012	7:10 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.995	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:11 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.998	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	22	1	95.7	1
9/23/2012	7:12 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.997	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	22	1	95.7	1
9/23/2012	7:13 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	29.999	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	23	1	100	1
9/23/2012	7:14 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	30	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	22	1	95.7	1
9/23/2012	7:15 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	30	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:16 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	30.001	0	0	0.005	0	56.7	60	43	55.4	11.08	0.0763	23	1	100	1
9/23/2012	7:17 AM	58.2	58.2	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	30.001	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	23	1	100	1
9/23/2012	7:18 AM	58.2	58.3	58.2	72	49.2	0	---	0	0	---	58.2	57.5	57.5	30.002	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:19 AM	58.3	58.3	58.2	71	48.9	0	---	0	0	---	58.3	57.6	57.6	30.002	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	23	1	100	1
9/23/2012	7:20 AM	58.3	58.3	58.3	72	49.3	0	---	0	0	---	58.3	57.6	57.6	30.002	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:21 AM	58.4	58.4	58.3	71	49	0	---	0	0	---	58.4	57.7	57.7	30.004	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	23	1	100	1
9/23/2012	7:22 AM	58.4	58.4	58.3	71	49	0	---	0	0	---	58.4	57.7	57.7	30.003	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	24	1	100	1
9/23/2012	7:23 AM	58.4	58.4	58.4	70	48.7	0	---	0	0	---	58.4	57.6	57.6	30.003	0	0	0.005	0	56.8	60	43.1	55.5	11.09	0.0763	23	1	100	1
9/23/2012	7:24 AM	58.4	58.4	58.4	71	49	0	---	0	0	---	58.4	57.7	57.7	30.005	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	23	1	100	1
9/23/2012	7:25 AM	58.5	58.5	58.4	70	48.7	0	---	0	0	---	58.5	57.8	57.8	30.007	0	0	0.005	0	57	60	43.2	55.7	11.09	0.0763	24	1	100	1
9/23/2012	7:26 AM	58.5	58.5	58.5	70	48.7	0	---	0	0	---	58.5	57.8	57.8	30.004	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0763	23	1	100	1
9/23/2012	7:27 AM	58.5	58.5	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	30.004	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0763	24	1	100	1
9/23/2012	7:28 AM	58.5	58.5	58.5	71	49.1	0	---	0	0	---	58.5	57.8	57.8	30.002	0	0	0.005	0	57.1	60	43.3	55.8	11.09	0.0763	23	1	100	1
9/23/2012	7:29 AM	58.5	58.5	58.5	70	48.7	0	---	0	0	---	58.5	57.8	57.8	30	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	23	1	100	1
9/23/2012	7:30 AM	58.5	58.5	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.004	0	0	0.005	0	57.3	60	43.5	56	11.1	0.0762	24	1	100	1
9/23/2012	7:31 AM	58.5	58.5	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.004	0	0	0.005	0	57.4	60	43.6	56.1	11.1	0.0762	23	1	100	1
9/23/2012	7:32 AM	58.6	58.6	58.5	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	24	1	100	1
9/23/2012	7:33 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.005	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	23	1	100	1
9/23/2012	7:34 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.007	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0762	24	1	100	1
9/23/2012	7:35 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0762	23	1	100	1
9/23/2012	7:36 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.004	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	23	1	100	1
9/23/2012	7:37 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	24	1	100	1
9/23/2012	7:38 AM	58.6	58.6	58.6	70	48.8	0	---	0	0	---	58.6	57.9	57.9	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	23	1	100	1
9/23/2012	7:39 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.007	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.0761	24	1	100	1
9/23/2012	7:40 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:41 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:42 AM	58.6	58.6	58.6	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.011	0	0	0.004	0	58.5	59	44.2	57.1	10.95	0.0761	24	1	100	1
9/23/2012	7:43 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.011	0	0	0.005	0	58.7	59	44.4	57.3	10.95	0.076	23	1	100	1
9/23/2012	7:44 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7

Meteorological Data
Equity IRM

9/23/2012	9:03 AM	60	60.1	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.035	0	0	0.003	0	68.7	56	52.4	67.8	10.38	0.0744	23	1	100	1
9/23/2012	9:04 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.035	0	0	0.003	0	68.9	56	52.6	68	10.37	0.0744	23	1	100	1
9/23/2012	9:05 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.036	0	0	0.003	0	69	56	52.6	68.1	10.37	0.0744	23	1	100	1
9/23/2012	9:06 AM	60.2	60.2	60.1	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.2	56	52.8	68.2	10.37	0.0743	23	1	100	1
9/23/2012	9:07 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	23	1	100	1
9/23/2012	9:08 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.038	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	24	1	100	1
9/23/2012	9:09 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.04	0	0	0.003	0	69.6	56	53.2	68.5	10.36	0.0743	23	1	100	1
9/23/2012	9:10 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.038	0	0	0.003	0	69.7	56	53.3	68.6	10.36	0.0742	23	1	100	1
9/23/2012	9:11 AM	60.4	60.4	60.3	60	46.4	0	---	0	0	---	60.4	59.1	59.1	30.04	0	0	0.003	0	69.9	56	53.5	68.7	10.35	0.0742	24	1	100	1
9/23/2012	9:12 AM	60.5	60.5	60.4	61	47	0	---	0	0	---	60.5	59.3	59.3	30.041	0	0	0.003	0	70.1	56	53.7	68.9	10.35	0.0742	23	1	100	1
9/23/2012	9:13 AM	60.6	60.6	60.5	60	46.6	0	---	0	0	---	60.6	59.4	59.4	30.039	0	0	0.003	0	70.2	56	53.8	69.1	10.35	0.0741	23	1	100	1
9/23/2012	9:14 AM	60.6	60.6	60.6	59	46.2	0	---	0	0	---	60.6	59.3	59.3	30.039	0	0	0.003	0	70.4	56	54	69.3	10.34	0.0741	23	1	100	1
9/23/2012	9:15 AM	60.5	60.6	60.5	58	45.6	0	---	0	0	---	60.5	59.1	59.1	30.039	0	0	0.003	0	70.6	56	54.1	69.6	10.34	0.0741	23	1	100	1
9/23/2012	9:16 AM	60.6	60.6	60.5	59	46.2	0	---	0	0	---	60.6	59.3	59.3	30.04	0	0	0.003	0	70.7	56	54.2	69.7	10.34	0.0741	24	1	100	1
9/23/2012	9:17 AM	60.6	60.6	60.5	59	46.2	0	---	0	0	---	60.6	59.3	59.3	30.038	0	0	0.003	0	70.9	56	54.4	70	10.33	0.074	23	1	100	1
9/23/2012	9:18 AM	60.7	60.7	60.6	60	46.7	0	---	0	0	---	60.7	59.5	59.5	30.039	0	0	0.003	0	71.1	55	54.1	70.1	10.13	0.074	24	1	100	1
9/23/2012	9:19 AM	60.7	60.7	60.6	59	46.3	0	---	0	0	---	60.7	59.4	59.4	30.04	0	0	0.003	0	71.2	55	54.2	70.3	10.13	0.074	23	1	100	1
9/23/2012	9:20 AM	60.8	60.8	60.7	59	46.4	0	---	0	0	---	60.8	59.5	59.5	30.041	0	0	0.003	0	71.4	55	54.4	70.6	10.12	0.074	24	1	100	1
9/23/2012	9:21 AM	60.8	60.8	60.8	59	46.4	0	---	0	0	---	60.8	59.5	59.5	30.039	0	0	0.003	0	71.6	55	54.6	70.9	10.12	0.0739	23	1	100	1
9/23/2012	9:22 AM	60.9	60.9	60.8	60	46.9	0	---	0	0	---	60.9	59.7	59.7	30.04	0	0	0.003	0	71.8	55	54.8	71.2	10.11	0.0739	23	1	100	1
9/23/2012	9:23 AM	60.9	60.9	60.9	58	46	0	---	0	0	---	60.9	59.5	59.5	30.04	0	0	0.003	0	71.9	55	54.9	71.4	10.11	0.0739	24	1	100	1
9/23/2012	9:24 AM	61	61	60.9	59	46.6	0	---	0	0	---	61	59.7	59.7	30.041	0	0	0.003	0	72.1	55	55	71.6	10.11	0.0738	23	1	100	1
9/23/2012	9:25 AM	61.1	61.1	61	59	46.7	0	---	0	0	---	61.1	59.8	59.8	30.042	0	0	0.003	0	72.3	55	55.2	72	10.1	0.0738	24	1	100	1
9/23/2012	9:26 AM	61.1	61.1	61.1	59	46.7	0	---	0	0	---	61.1	59.8	59.8	30.043	0	0	0.003	0	72.4	55	55.3	72.1	10.1	0.0738	22	1	95.7	1
9/23/2012	9:27 AM	61.2	61.2	61.1	59	46.8	0	---	0	0	---	61.2	59.9	59.9	30.043	0	0	0.003	0	72.6	55	55.5	72.4	10.1	0.0738	23	1	100	1
9/23/2012	9:28 AM	61.1	61.2	61.1	57	45.7	0	---	0	0	---	61.1	59.7	59.7	30.043	0	0	0.003	0	72.8	55	55.7	72.7	10.09	0.0737	24	1	100	1
9/23/2012	9:29 AM	61	61.1	61	57	45.7	0	---	0	0	---	61	59.6	59.6	30.045	0	0	0.003	0	73	55	55.9	73	10.09	0.0737	23	1	100	1
9/23/2012	9:30 AM	61	61	60.9	58	46.1	0	---	0	0	---	61	59.6	59.6	30.044	0	0	0.003	0	73.1	55	56	73.1	10.09	0.0737	24	1	100	1
9/23/2012	9:31 AM	61	61	61	56	45.2	0	---	0	0	---	61	59.5	59.5	30.045	0	0	0.003	0	73.3	55	56.2	73.4	10.08	0.0736	23	1	100	1
9/23/2012	9:32 AM	60.9	61	60.9	57	45.6	0	---	0	0	---	60.9	59.5	59.5	30.045	0	0	0.003	0	73.5	54	55.8	73.5	9.88	0.0736	24	1	100	1
9/23/2012	9:33 AM	60.9	60.9	60.9	57	45.6	0	---	0	0	---	60.9	59.5	59.5	30.045	0	0	0.003	0	73.6	54	55.9	73.6	9.88	0.0736	23	1	100	1
9/23/2012	9:34 AM	60.9	60.9	60.8	57	45.6	0	---	0	0	---	60.9	59.5	59.5	30.046	0	0	0.003	0	73.8	54	56.1	73.9	9.87	0.0736	23	1	100	1
9/23/2012	9:35 AM	60.8	60.8	60.8	57	45.5	0	---	0	0	---	60.8	59.4	59.4	30.047	0	0	0.003	0	74	54	56.3	74.1	9.87	0.0735	24	1	100	1
9/23/2012	9:36 AM	60.7	60.8	60.7	58	45.8	0	---	0	0	---	60.7	59.3	59.3	30.048	0	0	0.003	0	74.2	54	56.5	74.4	9.87	0.0735	23	1	100	1
9/23/2012	9:37 AM	60.8	60.8	60.7	58	45.9	0	---	0	0	---	60.8	59.4	59.4	30.045	0	0	0.003	0	74.3	54	56.6	74.5	9.86	0.0735	23	1	100	1
9/23/2012	9:38 AM	60.8	60.8	60.7	58	45.9	0	---	0	0	---	60.8	59.4	59.4	30.047	0	0	0.003	0	74.5	54	56.8	74.8	9.86	0.0735	23	1	100	1
9/23/2012	9:39 AM	60.9	60.9	60.8	59	46.5	0	---	0	0	---	60.9	59.6	59.6	30.047	0	0	0.003	0	74.5	54	56.8	74.8	9.86	0.0735	22	1	95.7	1
9/23/2012	9:40 AM	61	61	60.9	59	46.6	0	---	0	0	---	61	59.7	59.7	30.047	0	0	0.003	0	74.7	54	56.9	75	9.86	0.0734	23	1	100	1
9/23/2012	9:41 AM	61.1	61.1	61	58	46.2	0	---	0	0	---	61.1	59.7	59.7	30.047	0	0	0.003	0	74.9	54	57.1	75.3	9.85	0.0734	23	1	100	1
9/23/2012	9:42 AM	61.1	61.1	61.1	58	46.2	0	---	0	0	---	61.1	59.7	59.7	30.048	0	0	0.003	0	75	54	57.2	75.4	9.85	0.0734	24	1	100	1
9/23/2012	9:43 AM	61.2	61.2	61.1	58	46.3	0	---	0	0	---	61.2	59.8	59.8	30.049	0	0	0.003	0	75	54	57.2	75.4	9.85	0.0734	23	1	100	1
9/23/2012	9:44 AM	61.3	61.3	61.2	58	46.4	0	---	0	0	---	61.3	60	60	30.048	0	0	0.003	0	75.2	54	57.4	75.6	9.85	0.0733	22	1	95.7	1
9/23/2012	9:45 AM	61.3	61.3	61.3	57	45.9	0	---	0	0	---	61.3	59.9	59.9	30.049	0	0	0.003	0	75.4	53	57.1	75.7	9.65	0.0733	23	1	100	1
9/23/2012	9:46 AM	61.3	61.3	61.3	57	45.9	0	---	0	0	---	61.3	59.9	59.9	30.051	0	0	0.003	0	75.6	53	57.3	75.8	9.65	0.0733	22	1	95.7	1
9/23/2012	9:47 AM	61.3	61.3	61.3	57	45.9	0	---	0	0	---	61.3	59.9	59.9	30.049	0	0	0.003	0	75.7	53	57.4	75.9	9.65	0.0733	23	1	100	1
9/23/2012	9:48 AM	61.3	61.3	61.3	58	46.4	0	---	0	0	---	61.3	60	60	30.049	0	0	0.003	0	75.7	53	57.4	75.9	9.65	0.0733	23	1	100	1
9/23/2012	9:49 AM	61.3	61.3	61.3	58	46.4	0	---	0	0	---	61.3	60	60	30.048	0	0	0.003	0	75.9	53	57.5	76.1	9.65	0.0732	23	1	100	1
9/23/2012	9:50 AM	61.4	61.4	61.3	57	46	0	---	0	0	---	61.4	60	60	30.051	0	0	0.002	0	76.1	53	57.7	76.3	9.65	0.0732	21	1	91.3	1
9/23/2012	9:51 AM	61.5	61.5	61.4	57	46.1	0	---	0	0	---	61.5	60.1	60.1	30.051	0	0	0.002	0	76.3	53	57.9	76.5	9.65	0.0732	23	1	100	1
9/23/2012	9:52 AM	61.6	61.6	61.5	57	46.2	0	---	0	0	---	61.6	60.2	60.2	30.049	0	0	0.002	0	76.3	53	57.9	76.5	9.65	0.0732	23	1	100	1
9/23/2012	9:53 AM	61.6	61.6	61.6	57	46.2	0	---	0	0	---	61.6	60.2	60.2	30.047	0	0	0.002	0	76.4	53	58	76.5	9.65	0.0731	23	1	100	1
9/23/2012	9:54 AM	61.6	61.6	61.6	57	46.2	0	---	0	0	---	61.6	60.2	60.2	30.047	0	0	0.002	0	76.6	53	58.2	76.7	9.65	0.0731	23	1	100	1
9/23/2012	9:55 AM	61.6	61.6	61.6	56	45.7	0	---	0	0	---	61.6	60.1	60.1	30.049	0	0	0.002	0	76.8	53	58.4	76.9	9.65	0.0731	23	1	100	1
9/23/2012	9:56 AM	61.7	61.7	61.6	56	45.8	0	---	0	0	---	61.7	60.2	60.2	30.051	0	0	0.002	0	77	53	58.6	77.1	9.65	0.073	21	1	91.3	1
9/23/2012	9:57 AM	61.7	61.7	61.7	55	45.4	0	---	0	0	---	61.7	60.2	60.2	30.05	0	0	0.002	0	77	53	58.6	77.1	9.65	0.073	24	1	100	1
9/23/2012	9:58 AM	61.7	61.7	61.7	56	45.8	0	---	0	0	---	61.7	60.2	60.2	30.051	0	0	0.002	0	77.2	53	58.7	77.3	9.65	0.073	21	1	91.3	1
9/23/2012	9:59 AM	61.7	61.7	61.7	55	45.4	0	---	0	0	---	61.7	60.2	60.2	30.051	0	0	0.002	0	77.3	52	58.3	77.4	9.5	0.073	22	1	95.7	1
9/23/2012	10:00 AM	61.7	61.7	61.7	56	45.8	0	---	0	0	---	61.7	60.2	60.2	30.052	0	0	0.002	0	77.3	52	58.3	77.4	9.5	0.073	23	1	100	1
9/23/2012	10:01 AM	61.8	61.8	61.7	55	45.5	0	---	0	0	---	61.8	60.3	60.3	30.049	0	0	0.002	0	77.5	52	58.5	77.6	9.5	0.073	24	1	100	1
9/23/2012	10:02 AM	61.8	61.8	61.8	55	45.5	0	---	0	0	---	61.8	60.3	60.3	30.049	0	0	0.002	0	77.7	52	58.7	77.8	9.5	0.0729	23	1	100	1
9/23/2012	10:03 AM	61.8	61.8	61.8	56	45.9	0	---	0	0	---	61.8	60.3	60.3	30.05	0	0	0.002	0	77.7	52	58.7	77.8	9.5	0.0729	23	1	100	1
9/23/2012	10:04 AM	61.9	61.9	61.8	56	46	0	---	0	0	---	61.9	60.5	60.5	30.053	0	0	0.002	0	77.9	52	58.9	78.1	9.49	0.0729	24	1	100	1
9/23/2012	10:05 AM	61.9	62	61.9	55	45.5	0	---	0	0	---	61.9	60.4	60.4	30.05	0	0	0.002	0	78	52	58.9	78.2	9.49	0.0729	22	1	95.7	1
9/23/2012	10:06 AM	61.9	61.9	61.9	56	46	0	---	0	0	---	61.9	60.5	60.5	30.049	0	0	0.002	0	78	52	58.9	78.2	9.49	0.0729	24	1	100	1
9/23/2012	10:07 AM	61.9	61.9	61.9	56	46	0	---	0	0	---	61.9	60.5	60.5	30.047	0	0	0.002	0	78.2	52	59.1	78.4	9.49	0.0728	23	1	100	1
9/23/2012	10:08 AM	62	62	61.9	56	46.1	0	---	0	0	---	62	60.6	60.6	30.047	0	0	0.002	0	78.4	52	59.3	78.7	9.48	0.0728	23	1	100	1
9/23/2012	10:09 AM	62.1	62.1	62	56	46.2	0	---	0	0	---	62.1	60.7	60.7	30.047	0	0	0.002	0	78.4	52	59.3	78.7	9.48	0.0728	24	1	100	1
9/23/2012	10:10 AM	62.2	62.2	62.1	56	46.3	0	---	0	0	---	62.2	60.8	60.8	30.048	0	0	0.002	0	78.6	52	59.5	78.9	9.48	0.0728	23	1	100	1
9/23/2012	10:11 AM	62.2	62.2	62.2	54	45.3	0	---	0	0	---	62.2	60.6	60.6	30.051	0	0	0.002	0	78.8	52	59.7	79.1	9.47	0.0728	24	1	100	1
9/23/2012	10:12 AM	62.2	62.2	62.1	55	45.8	0	---	0	0	---	62.2	60.7	60.7	30.048	0	0	0.002	0	78.8	52	59.7	79.1	9.47	0.0727	22	1	95.7	1
9/23/2012	10:13 AM	62.3	62.3	62.2	54	45.4	0	---	0	0	---	62.3	60.7	60.7	30.049	0	0	0.002	0	79	52	59.9	79.4	9.47	0.0727	24	1	100	1
9/23/2012	10:14 AM	62.3	62.3	62.3	53	44.9	0	---	0	0	---	62.3	60.7	60.7	30.049	0	0	0.002	0	79.2	52	60.1	79.6	9.47	0.0727	23	1	100	1
9/23/2012	10:15 AM	62.3	62.3	62.3	53	44.9	0	---	0	0	---	62.3	60.7	60.7	30.05	0	0	0.002	0	79.3	51	59.6	79.6	9.35	0.0727	23	1	100	1
9/23/2012	10:16 AM	62.4	62.4	62.3	53	45	0	---	0	0	---	62.4	60.8	60.8	30.051	0	0	0.002	0	79.3	51	59.6	79.6	9.35	0.0727	24	1	100	1
9/23/2012	10:17 AM	62.3	62.4	62.3	52	44.4	0	---	0	0	---	62.3	60.6	60.6	30.053	0	0	0.002	0	79.5	51	59.8	79.8	9.35	0.0727	23	1	100	1
9/23/2012	10:18 AM	62.2	62.3	62.2	53	44.9	0	---	0	0	---	62.2	60.6	60.6	30.05	0	0	0.002	0	79.7	51	60	79.9	9.35	0.0726	24	1	100	1
9/23/2012	10:19 AM	62.2	62.2	62.2	53	44.9	0	---	0	0	---	62.2	60.6	60.6	30.05	0	0	0.002	0	79.7	51	60	79.9	9.35	0.0726	23	1	100	1
9/23/2012	10:20 AM	62.2	62.2	62.2	54	45.3	0	---	0	0	---	62.2	60.6	60.6	30.049	0	0	0.002	0	79.9	51	60.2	80.1	9.35	0.0726	23	1	100	1
9/23/2012	10:21 AM	62.3	62.3	62.3	54	45.4	0	---	0	0	---	62.3	60.7	60.7	30.052	0	0	0.002	0	80.1	51	60.3	80.3	9.35	0.0725	24	1	100	1
9/23/2012	10:22 AM	62.4	62.4	62.3	54	45.5	0	---	0	0	---	62.4	60.9	60.9	30.05	0	0	0.002	0	80.1	51	60.3	80.3	9.35	0.0725	23	1	100	1
9/23/2012	10:23 AM	62.4	62.4	62.4	53	45	0	---	0	0	---	62.4	60.8	60.8	30.047	0	0	0.002	0	80.3	51	60.5	80.6	9.34	0.0725	24	1	100	1
9/23/2012	10:24 AM	62.4	62.4	62.4	54	45.5	0	---	0	0	---	62.4	60.9	60.9	30.048	0	0	0.002	0	80.5	51	60.7	80.8	9.34	0.0725	23	1	100	1
9/23/2012	10:25 AM	62.5	62.5	62.5	53	45.1	0	---	0	0	---	62.5	60.9	60.9	30.048	0	0	0.002	0	80.5	51	60.7	80.8	9.34	0.0725	24	1	100	1
9/23/2012	10:26 AM	62.5	62.5	62.5	53	45.1	0	---	0	0	---	62.5	60.9	60.9	30.051	0	0	0.002	0	80.6	51	60.8	80.9	9.34	0.0725	23	1	100	1
9/23/2012	10:27 AM	62.5	62.5	62.5	53	45.1	0	---	0	0	---	62.5	60.9	60.9	30.053	0	0	0.002	0	80.6	51	60.8	80.9	9.34	0.0725	23	1	100	1
9/23/2012	10:28 AM	62.5	62.5	62.5	53	45.1	0	---	0	0	---	62.5	60.9	60.9	30.053	0	0	0.002	0	80.8	51	61	81.1	9.33	0.0724	24	1	100	1
9/23/2012	10:29 AM	62.5	62.5	62.5	54	45.6	0	---	0	0	---	62.5	61	61	30.054	0	0	0.002	0	81	50	60.6	81.2	9.13	0.0724	23	1	100	1
9/23/2012	10:30 AM	62.5	62.5	62.5	54	45.6	0	---	0	0	---	62.5	61	61	30.054	0	0	0.002	0	81	50	60.6	81.2	9.13	0.0724	24	1	100	1
9/23/2012	10:31 AM	62.7	62.7	62.6	54	45.8	0	---	0	0	---	62.7	61.2	61.2	30.055	0	0	0.002	0	81.2	50	60.8	81.5	9.13	0.0724	23	1	100	1
9/23/2012	10:32 AM	62.8	62.8	62.7	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.056	0	0	0.002	0	81.4	50	61	81.8	9.12	0.0724	22	1	95.7	1
9/23/2012	10:33 AM	62.9	62.9	62.8	53	45.5	0	---	0	0	---	62.9	61.3	61.3	30.055	0	0	0.001	0	81.4	50	61	81.8	9.12	0.0724	24	1	100	1
9/23/2012	10:34 AM	63	63	62.9	52	45.1	0	---	0	0	---	63	61.3	61.3	30.056	0	0	0.001	0	81.6	50	61.2	82	9.12	0.0723	23	1	100	1
9/23/2012	10:35 AM	63	63	63	52	45.1	0	---	0	0	---	63	61.3	61.3	30.056	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:36 AM	62.9	63	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.053	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:37 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.055	0	0	0.001	0	82	50	61.5	82.6	9.11	0.0722	22	1	95.7	1
9/23/2012	10:38 AM	62.8	62.9	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.056	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	24	1	100	1
9/23/2012	10:39 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	22	1	95.7	1
9/23/2012	10:40 AM	62.7	62.8	62.7	51	44.3	0	---	0	0	---	62.7	60.9	60.9	30.055	0	0	0.002	0	82.3	50	61.8	83.1	9.1	0.0722	23	1	100	1
9/23/2012	10:41 AM	62.8	62.8	62.7	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	22	1	95.7	1
9/23/2012	10:42 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.055	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	23	1	100	1
9/23/2012	10:43 AM	62.9	62.9	62.8	51	44.5	0	---	0	0	---	62.9	61.1	61.1	30.057	0	0	0.001	0	82.7	50	62.2	83.7	9.1	0.0721	23	1	100	1
9/23/2012	10:44 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.059	0	0	0.001	0	82.9	50	62.

Meteorological Data
Equity IRM

9/23/2012	12:03 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:04 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.049	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	24	1	100	1
9/23/2012	12:05 PM	66.7	66.8	66.7	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:06 PM	66.7	66.8	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	22	1	95.7	1
9/23/2012	12:07 PM	66.6	66.7	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:08 PM	66.4	66.5	66.4	38	40	0	---	0	0	---	66.4	63.6	63.6	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	23	1	100	1
9/23/2012	12:09 PM	66.4	66.4	66.4	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.047	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:10 PM	66.5	66.5	66.5	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	22	1	95.7	1
9/23/2012	12:11 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:12 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	22	1	95.7	1
9/23/2012	12:13 PM	66.6	66.7	66.6	37	39.5	0	---	0	0	---	66.6	63.7	63.7	30.052	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	22	1	95.7	1
9/23/2012	12:14 PM	66.5	66.6	66.5	36	38.7	0	---	0	0	---	66.5	63.5	63.5	30.047	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	23	1	100	1
9/23/2012	12:15 PM	66.6	66.6	66.5	37	39.5	0	---	0	0	---	66.6	63.7	63.7	30.051	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	23	1	100	1
9/23/2012	12:16 PM	66.8	66.8	66.6	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.051	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	23	1	100	1
9/23/2012	12:17 PM	66.9	66.9	66.8	37	39.8	0	---	0	0	---	66.9	64	64	30.051	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	22	1	95.7	1
9/23/2012	12:18 PM	67	67	67	37	39.9	0	---	0	0	---	67	64.1	64.1	30.049	0	0	0	0.001	91.1	44	66.2	94.8	8.03	0.0708	23	1	100	1
9/23/2012	12:19 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.051	0	0	0	0.001	91.4	44	66.4	95.4	8.02	0.0708	22	1	95.7	1
9/23/2012	12:20 PM	66.8	67	66.8	35	38.3	0	---	0	0	---	66.8	63.7	63.7	30.052	0	0	0	0.001	91.4	44	66.4	95.4	8.02	0.0708	23	1	100	1
9/23/2012	12:21 PM	66.7	66.8	66.7	37	39.6	0	---	0	0	---	66.7	63.8	63.8	30.052	0	0	0	0.001	91.4	44	66.4	95.4	8.02	0.0708	24	1	100	1
9/23/2012	12:22 PM	66.7	66.7	66.7	37	39.6	0	---	0	0	---	66.7	63.8	63.8	30.052	0	0	0	0.001	91.6	44	66.6	95.7	8.02	0.0707	23	1	100	1
9/23/2012	12:23 PM	66.7	66.7	66.7	37	39.6	0	---	0	0	---	66.7	63.8	63.8	30.053	0	0	0	0.001	91.6	44	66.6	95.7	8.02	0.0707	23	1	100	1
9/23/2012	12:24 PM	66.8	66.8	66.7	38	40.4	0	---	0	0	---	66.8	64	64	30.052	0	0	0	0.001	91.6	43	65.9	95.3	7.89	0.0708	23	1	100	1
9/23/2012	12:25 PM	67	67	66.9	37	39.9	0	---	0	0	---	67	64.1	64.1	30.054	0	0	0	0.001	91.6	43	65.9	95.3	7.89	0.0708	23	1	100	1
9/23/2012	12:26 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.052	0	0	0	0.001	91.8	43	66.1	95.6	7.88	0.0707	24	1	100	1
9/23/2012	12:27 PM	67	67.1	67	36	39.1	0	---	0	0	---	67	64	64	30.055	0	0	0	0.001	91.8	43	66.1	95.6	7.88	0.0707	23	1	100	1
9/23/2012	12:28 PM	66.9	67	66.9	37	39.8	0	---	0	0	---	66.9	64	64	30.053	0	0	0	0.001	91.8	43	66.1	95.6	7.88	0.0707	24	1	100	1
9/23/2012	12:29 PM	67	67	66.9	37	39.9	0	---	0	0	---	67	64.1	64.1	30.053	0	0	0	0.001	91.8	43	66.1	95.6	7.88	0.0707	23	1	100	1
9/23/2012	12:30 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.053	0	0	0	0.001	92	43	66.3	95.9	7.87	0.0707	23	1	100	1
9/23/2012	12:31 PM	67	67	67	37	39.9	0	---	0	0	---	67	64.1	64.1	30.052	0	0	0	0.001	92	43	66.3	95.9	7.87	0.0707	24	1	100	1
9/23/2012	12:32 PM	67.1	67.1	67.1	37	39.9	0	---	0	0	---	67.1	64.3	64.3	30.05	0	0	0	0.001	92	43	66.3	95.9	7.87	0.0707	23	1	100	1
9/23/2012	12:33 PM	67	67.1	67	36	39.1	0	---	0	0	---	67	64	64	30.052	0	0	0	0.001	92	43	66.3	95.9	7.87	0.0707	24	1	100	1
9/23/2012	12:34 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.053	0	0	0	0.001	92.2	43	66.5	96.3	7.86	0.0707	23	1	100	1
9/23/2012	12:35 PM	67	67.1	67	36	39.1	0	---	0	0	---	67	64	64	30.052	0	0	0	0.001	92.2	43	66.5	96.3	7.86	0.0707	22	1	95.7	1
9/23/2012	12:36 PM	67.1	67.1	67.1	37	39.9	0	---	0	0	---	67.1	64.3	64.3	30.053	0	0	0	0.001	92.2	43	66.5	96.3	7.86	0.0707	24	1	100	1
9/23/2012	12:37 PM	67.2	67.2	67.1	37	40	0	---	0	0	---	67.2	64.4	64.4	30.053	0	0	0	0.002	92.2	43	66.5	96.3	7.86	0.0707	21	1	91.3	1
9/23/2012	12:38 PM	67.1	67.1	67.1	37	39.9	0	---	0	0	---	67.1	64.3	64.3	30.054	0	0	0	0.001	92.2	43	66.5	96.3	7.86	0.0707	24	1	100	1
9/23/2012	12:39 PM	67.2	67.2	67.2	38	40.7	0	---	0	0	---	67.2	64.5	64.5	30.05	0	0	0	0.002	92.5	43	66.7	96.9	7.85	0.0706	22	1	95.7	1
9/23/2012	12:40 PM	67.4	67.4	67.3	37	40.2	0	---	0	0	---	67.4	64.6	64.6	30.053	0	0	0	0.002	92.5	43	66.7	96.9	7.85	0.0706	24	1	100	1
9/23/2012	12:41 PM	67.5	67.5	67.4	37	40.3	0	---	0	0	---	67.5	64.7	64.7	30.055	0	0	0	0.002	92.5	43	66.7	96.9	7.85	0.0706	23	1	100	1
9/23/2012	12:42 PM	67.5	67.6	67.5	37	40.3	0	---	0	0	---	67.5	64.7	64.7	30.054	0	0	0	0.002	92.5	43	66.7	96.9	7.85	0.0706	22	1	95.7	1
9/23/2012	12:43 PM	67.5	67.6	67.5	37	40.3	0	---	0	0	---	67.5	64.7	64.7	30.051	0	0	0	0.002	92.7	43	66.9	97.2	7.84	0.0706	24	1	100	1
9/23/2012	12:44 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.05	0	0	0	0.002	92.7	43	66.9	97.2	7.84	0.0706	23	1	100	1
9/23/2012	12:45 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.052	0	0	0	0.002	92.7	43	66.9	97.2	7.84	0.0706	24	1	100	1
9/23/2012	12:46 PM	67.6	67.6	67.5	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.052	0	0	0	0.002	92.7	43	66.9	97.2	7.84	0.0706	21	1	91.3	1
9/23/2012	12:47 PM	67.6	67.6	67.6	37	40.4	0	---	0	0	---	67.6	64.8	64.8	30.052	0	0	0	0.002	92.7	43	66.9	97.2	7.84	0.0706	23	1	100	1
9/23/2012	12:48 PM	67.4	67.6	67.4	37	40.2	0	---	0	0	---	67.4	64.6	64.6	30.051	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	23	1	100	1
9/23/2012	12:49 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.054	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	23	1	100	1
9/23/2012	12:50 PM	67.5	67.5	67.4	39	41.7	0	---	0	0	---	67.5	64.9	64.9	30.052	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	23	1	100	1
9/23/2012	12:51 PM	67.6	67.6	67.5	39	41.7	0	---	0	0	---	67.6	65	65	30.051	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	22	1	95.7	1
9/23/2012	12:52 PM	67.6	67.6	67.5	39	41.7	0	---	0	0	---	67.6	65	65	30.049	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	23	1	100	1
9/23/2012	12:53 PM	67.6	67.6	67.6	40	42.4	0	---	0	0	---	67.6	65.2	65.2	30.051	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	21	1	91.3	1
9/23/2012	12:54 PM	67.6	67.7	67.6	40	42.4	0	---	0	0	---	67.6	65.2	65.2	30.047	0	0	0	0.002	92.9	43	67.1	97.6	7.83	0.0705	22	1	95.7	1
9/23/2012	12:55 PM	67.6	67.7	67.6	40	42.4	0	---	0	0	---	67.6	65.2	65.2	30.05	0	0	0	0.002	93.1	43	67.3	98	7.83	0.0705	23	1	100	1
9/23/2012	12:56 PM	67.7	67.7	67.7	40	42.5	0	---	0	0	---	67.7	65.3	65.3	30.049	0	0	0	0.002	93.1	43	67.3	98	7.83	0.0705	22	1	95.7	1
9/23/2012	12:57 PM	67.7	67.8	67.7	40	42.5	0	---	0	0	---	67.7	65.3	65.3	30.046	0	0	0	0.002	93.1	43	67.3	98	7.83	0.0705	23	1	100	1
9/23/2012	12:58 PM	67.8	67.8	67.7	40	42.6	0	---	0	0	---	67.8	65.4	65.4	30.045	0	0	0	0.002	93.1	43	67.3	98	7.83	0.0705	23	1	100	1
9/23/2012	12:59 PM	67.8	67.8	67.8	40	42.6	0	---	0	0	---	67.8	65.4	65.4	30.044	0	0	0	0.002	93.1	42	66.6	97.5	7.63	0.0705	21	1	91.3	1
9/23/2012	1:00 PM	68	68	67.9	40	42.8	0	---	0	0	---	68	65.6	65.6	30.046	0	0	0	0.002	93.1	42	66.6	97.5	7.63	0.0705	23	1	100	1
9/23/2012	1:01 PM	68	68	68	39	42.1	0	---	0	0	---	68	65.5	65.5	30.045	0	0	0	0.002	93.3	42	66.8	97.9	7.62	0.0705	23	1	100	1
9/23/2012	1:02 PM	67.9	68	67.9	39	42	0	---	0	0	---	67.9	65.4	65.4	30.046	0	0	0	0.002	93.3	42	66.8	97.9	7.62	0.0705	24	1	100	1
9/23/2012	1:03 PM	68	68	67.9	40	42.8	0	---	0	0	---	68	65.6	65.6	30.045	0	0	0	0.002	93.3	42	66.8	97.9	7.62	0.0705	22	1	95.7	1
9/23/2012	1:04 PM	68	68	68	39	42.1	0	---	0	0	---	68	65.5	65.5	30.045	0	0	0	0.002	93.3	42	66.8	97.9	7.62	0.0705	24	1	100	1
9/23/2012	1:05 PM	67.9	68	67.9	39	42	0	---	0	0	---	67.9	65.4	65.4	30.044	0	0	0	0.002	93.3	42	66.8	97.9	7.62	0.0705	22	1	95.7	1
9/23/2012	1:06 PM	67.9	67.9	67.9	39	42	0	---	0	0	---	67.9	65.4	65.4	30.044	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	23	1	100	1
9/23/2012	1:07 PM	67.9	67.9	67.9	40	42.7	0	---	0	0	---	67.9	65.5	65.5	30.043	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	23	1	100	1
9/23/2012	1:08 PM	67.9	67.9	67.9	40	42.7	0	---	0	0	---	67.9	65.5	65.5	30.041	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	23	1	100	1
9/23/2012	1:09 PM	67.9	67.9	67.9	40	42.7	0	---	0	0	---	67.9	65.5	65.5	30.041	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	24	1	100	1
9/23/2012	1:10 PM	67.9	67.9	67.9	40	42.7	0	---	0	0	---	67.9	65.5	65.5	30.043	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	23	1	100	1
9/23/2012	1:11 PM	67.8	67.9	67.8	40	42.6	0	---	0	0	---	67.8	65.4	65.4	30.044	0	0	0	0.002	93.6	42	67.1	98.4	7.61	0.0704	23	1	100	1
9/23/2012	1:12 PM	67.9	67.9	67.8	41	43.3	0	---	0	0	---	67.9	65.6	65.6	30.042	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:13 PM	68	68	68	40	42.8	0	---	0	0	---	68	65.6	65.6	30.042	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:14 PM	68	68	68	38	41.4	0	---	0	0	---	68	65.4	65.4	30.043	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:15 PM	67.9	68	67.9	38	41.3	0	---	0	0	---	67.9	65.3	65.3	30.043	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:16 PM	67.7	67.9	67.7	39	41.8	0	---	0	0	---	67.7	65.1	65.1	30.046	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:17 PM	67.7	67.7	67.7	39	41.8	0	---	0	0	---	67.7	65.1	65.1	30.044	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:18 PM	67.6	67.7	67.6	39	41.7	0	---	0	0	---	67.6	65	65	30.043	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	22	1	95.7	1
9/23/2012	1:19 PM	67.6	67.6	67.6	39	41.7	0	---	0	0	---	67.6	65	65	30.042	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	24	1	100	1
9/23/2012	1:20 PM	67.6	67.6	67.6	39	41.7	0	---	0	0	---	67.6	65	65	30.041	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	22	1	95.7	1
9/23/2012	1:21 PM	67.7	67.7	67.6	39	41.8	0	---	0	0	---	67.7	65.1	65.1	30.041	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	24	1	100	1
9/23/2012	1:22 PM	67.9	67.9	67.8	39	42	0	---	0	0	---	67.9	65.4	65.4	30.041	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:23 PM	68	68	67.9	38	41.4	0	---	0	0	---	68	65.4	65.4	30.04	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	23	1	100	1
9/23/2012	1:24 PM	68.2	68.2	68.1	38	41.6	0	---	0	0	---	68.2	65.6	65.6	30.041	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	24	1	100	1
9/23/2012	1:25 PM	68.4	68.4	68.2	39	42.5	0	---	0	0	---	68.4	65.9	65.9	30.042	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	22	1	95.7	1
9/23/2012	1:26 PM	68.5	68.5	68.5	37	41.2	0	---	0	0	---	68.5	65.7	65.7	30.04	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	24	1	100	1
9/23/2012	1:27 PM	68.6	68.6	68.6	37	41.3	0	---	0	0	---	68.6	65.8	65.8	30.043	0	0	0	0.002	93.8	42	67.2	98.8	7.6	0.0704	22	1	95.7	1
9/23/2012	1:28 PM	68.7	68.7	68.7	38	42.1	0	---	0	0	---	68.7	66.1	66.1	30.043	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0704	23	1	100	1
9/23/2012	1:29 PM	68.8	68.8	68.7	36	40.7	0	---	0	0	---	68.8	65.9	65.9	30.042	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	24	1	100	1
9/23/2012	1:30 PM	68.8	68.8	68.8	37	41.5	0	---	0	0	---	68.8	66	66	30.04	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	22	1	95.7	1
9/23/2012	1:31 PM	68.8	68.8	68.7	36	40.7	0	---	0	0	---	68.8	65.9	65.9	30.042	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	21	1	91.3	1
9/23/2012	1:32 PM	68.7	68.7	68.7	36	40.7	0	---	0	0	---	68.7	65.8	65.8	30.04	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	21	1	91.3	1
9/23/2012	1:33 PM	68.6	68.7	68.6	37	41.3	0	---	0	0	---	68.6	65.8	65.8	30.042	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	22	1	95.7	1
9/23/2012	1:34 PM	68.6	68.6	68.6	37	41.3	0	---	0	0	---	68.6	65.8	65.8	30.04	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	22	1	95.7	1
9/23/2012	1:35 PM	68.5	68.5	68.5	37	41.2	0	---	0	0	---	68.5	65.7	65.7	30.04	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:36 PM	68.3	68.5	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.039	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:37 PM	68.3	68.3	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.038	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:38 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.037	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:39 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:40 PM	68.4	68.4	68.4	39	42.5	0	---	0	0	---	68.4	65.9	65.9	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	22	1	95.7	1
9/23/2012	1:41 PM	68.5	68.5	68.4	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.039	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	24	1	100	1
9/23/2012	1:42 PM	68.5	68.5	68.5	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	21	1	91.3	1
9/23/2012	1:43 PM	68.6	68.6	68.5	39	42.6	0	---	0	0	---	68.6	66.1	66.1	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:44 PM	68.7	68.7	68.6	39	42.7	0	---	0	0	---	68.7	66.2	66.2	30.04	0	0	0	0.003	94.2	41	66.9	99	7.48

Meteorological Data
Equity IRM

9/23/2012	3:03 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	22	1	95.7	1
9/23/2012	3:04 PM	70	70	69.9	37	42.5	0	---	0	0	---	70	67.1	67.1	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	23	1	100	1
9/23/2012	3:05 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.9	43	61.7	88	7.95	0.0715	24	1	100	1
9/23/2012	3:06 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.032	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	23	1	100	1
9/23/2012	3:07 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	24	1	100	1
9/23/2012	3:08 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.032	0	0	0	0.003	86.5	43	61.3	87.4	7.95	0.0716	23	1	100	1
9/23/2012	3:09 PM	70	70	70	36	41.8	0	---	0	0	---	70	67	67	30.034	0	0	0	0.003	86.3	43	61.2	87.2	7.95	0.0716	23	1	100	1
9/23/2012	3:10 PM	69.9	70	69.9	36	41.7	0	---	0	0	---	69.9	66.9	66.9	30.032	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	24	1	100	1
9/23/2012	3:11 PM	69.8	69.9	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.03	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	23	1	100	1
9/23/2012	3:12 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.028	0	0	0	0.003	85.9	44	61.5	86.8	8.13	0.0717	24	1	100	1
9/23/2012	3:13 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.034	0	0	0	0.003	85.7	44	61.3	86.6	8.14	0.0717	23	1	100	1
9/23/2012	3:14 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.034	0	0	0	0.003	85.7	44	61.3	86.6	8.14	0.0717	24	1	100	1
9/23/2012	3:15 PM	69.6	69.7	69.6	37	42.2	0	---	0	0	---	69.6	66.7	66.7	30.031	0	0	0	0.003	85.5	44	61.1	86.4	8.14	0.0717	23	1	100	1
9/23/2012	3:16 PM	69.5	69.6	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.033	0	0	0	0.003	85.3	44	60.9	86.2	8.14	0.0718	23	1	100	1
9/23/2012	3:17 PM	69.7	69.7	69.6	38	42.9	0	---	0	0	---	69.7	66.9	66.9	30.032	0	0	0	0.003	85.1	44	60.7	85.9	8.15	0.0718	24	1	100	1
9/23/2012	3:18 PM	69.9	69.9	69.7	38	43.1	0	---	0	0	---	69.9	67.1	67.1	30.031	0	0	0	0.003	84.9	44	60.6	85.7	8.15	0.0718	23	1	100	1
9/23/2012	3:19 PM	70.1	70.1	69.9	38	43.3	0	---	0	0	---	70.1	67.3	67.3	30.033	0	0	0	0.004	84.9	44	60.6	85.7	8.15	0.0719	24	1	100	1
9/23/2012	3:20 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.031	0	0	0	0.004	84.7	44	60.4	85.6	8.15	0.0719	23	1	100	1
9/23/2012	3:21 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.031	0	0	0	0.004	84.5	44	60.2	85.4	8.15	0.0719	23	1	100	1
9/23/2012	3:22 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.03	0	0	0	0.004	84.3	44	60	85.2	8.15	0.0719	23	1	100	1
9/23/2012	3:23 PM	70.2	70.2	70.1	38	43.4	0	---	0	0	---	70.2	67.4	67.4	30.032	0	0	0	0.004	84.3	44	60	85.2	8.15	0.072	23	1	100	1
9/23/2012	3:24 PM	70.3	70.3	70.2	37	42.8	0	---	0	0	---	70.3	67.5	67.5	30.031	0	0	0	0.004	84.1	44	59.8	85	8.15	0.072	24	1	100	1
9/23/2012	3:25 PM	70.3	70.3	70.3	37	42.8	0	---	0	0	---	70.3	67.5	67.5	30.03	0	0	0	0.004	83.9	44	59.7	84.8	8.15	0.072	23	1	100	1
9/23/2012	3:26 PM	70.4	70.4	70.3	37	42.9	0	---	0	0	---	70.4	67.6	67.6	30.032	0	0	0	0.004	83.9	44	59.7	84.8	8.15	0.072	23	1	100	1
9/23/2012	3:27 PM	70.3	70.4	70.3	36	42.1	0	---	0	0	---	70.3	67.4	67.4	30.032	0	0	0	0.004	83.7	45	60.1	84.6	8.28	0.072	24	1	100	1
9/23/2012	3:28 PM	70.2	70.3	70.2	37	42.7	0	---	0	0	---	70.2	67.3	67.3	30.033	0	0	0	0.004	83.5	45	59.9	84.3	8.28	0.0721	23	1	100	1
9/23/2012	3:29 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.03	0	0	0	0.004	83.5	45	59.9	84.3	8.28	0.0721	24	1	100	1
9/23/2012	3:30 PM	70	70.1	70	37	42.5	0	---	0	0	---	70	67.1	67.1	30.032	0	0	0	0.003	83.3	45	59.7	84	8.28	0.0721	23	1	100	1
9/23/2012	3:31 PM	69.9	70	69.9	37	42.4	0	---	0	0	---	69.9	67	67	30.03	0	0	0	0.003	83.1	45	59.6	83.7	8.29	0.0721	23	1	100	1
9/23/2012	3:32 PM	69.9	70	69.9	37	42.4	0	---	0	0	---	69.9	67	67	30.03	0	0	0	0.003	82.9	45	59.4	83.3	8.29	0.0722	23	1	100	1
9/23/2012	3:33 PM	69.8	69.9	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.033	0	0	0	0.003	82.9	45	59.4	83.3	8.29	0.0722	23	1	100	1
9/23/2012	3:34 PM	69.6	69.7	69.6	37	42.2	0	---	0	0	---	69.6	66.7	66.7	30.031	0	0	0	0.003	82.7	45	59.2	83	8.3	0.0722	24	1	100	1
9/23/2012	3:35 PM	69.5	69.6	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.033	0	0	0	0.003	82.5	45	59	82.7	8.3	0.0722	23	1	100	1
9/23/2012	3:36 PM	69.4	69.5	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.033	0	0	0	0.003	82.5	45	59	82.7	8.3	0.0722	24	1	100	1
9/23/2012	3:37 PM	69.3	69.4	69.3	37	41.9	0	---	0	0	---	69.3	66.5	66.5	30.032	0	0	0	0.003	82.3	45	58.8	82.4	8.3	0.0723	23	1	100	1
9/23/2012	3:38 PM	69.4	69.4	69.3	37	42	0	---	0	0	---	69.4	66.6	66.6	30.034	0	0	0	0.003	82.1	45	58.7	82.1	8.31	0.0723	22	1	95.7	1
9/23/2012	3:39 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.036	0	0	0	0.003	82	45	58.6	81.9	8.31	0.0723	24	1	100	1
9/23/2012	3:40 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.035	0	0	0	0.003	82	45	58.6	81.9	8.31	0.0723	22	1	95.7	1
9/23/2012	3:41 PM	69.3	69.4	69.3	37	41.9	0	---	0	0	---	69.3	66.5	66.5	30.037	0	0	0	0.003	81.8	45	58.4	81.6	8.31	0.0724	24	1	100	1
9/23/2012	3:42 PM	69.4	69.4	69.3	38	42.7	0	---	0	0	---	69.4	66.7	66.7	30.034	0	0	0	0.003	81.6	46	58.8	81.5	8.45	0.0724	22	1	95.7	1
9/23/2012	3:43 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.032	0	0	0	0.003	81.4	46	58.6	81.2	8.45	0.0724	22	1	95.7	1
9/23/2012	3:44 PM	69.5	69.5	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.032	0	0	0	0.003	81.4	46	58.6	81.2	8.45	0.0724	23	1	100	1
9/23/2012	3:45 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.035	0	0	0	0.003	81.2	46	58.5	81	8.45	0.0724	22	1	95.7	1
9/23/2012	3:46 PM	69.7	69.7	69.7	38	42.9	0	---	0	0	---	69.7	66.9	66.9	30.034	0	0	0	0.003	81	46	58.3	80.7	8.45	0.0725	23	1	100	1
9/23/2012	3:47 PM	69.7	69.7	69.7	38	42.9	0	---	0	0	---	69.7	66.9	66.9	30.036	0	0	0	0.003	81	46	58.3	80.7	8.45	0.0725	22	1	95.7	1
9/23/2012	3:48 PM	69.8	69.8	69.7	38	43	0	---	0	0	---	69.8	67	67	30.038	0	0	0	0.003	80.8	46	58.1	80.5	8.45	0.0725	24	1	100	1
9/23/2012	3:49 PM	69.9	69.9	69.8	38	43.1	0	---	0	0	---	69.9	67.1	67.1	30.036	0	0	0	0.003	80.6	46	57.9	80.3	8.45	0.0726	22	1	95.7	1
9/23/2012	3:50 PM	69.8	69.8	69.8	38	43	0	---	0	0	---	69.8	67	67	30.037	0	0	0	0.003	80.6	46	57.9	80.3	8.45	0.0726	23	1	100	1
9/23/2012	3:51 PM	69.8	69.8	69.8	38	43	0	---	0	0	---	69.8	67	67	30.038	0	0	0	0.003	80.5	46	57.8	80.2	8.45	0.0726	23	1	100	1
9/23/2012	3:52 PM	69.9	69.9	69.8	37	42.4	0	---	0	0	---	69.9	67	67	30.035	0	0	0	0.003	80.3	46	57.6	80	8.45	0.0726	23	1	100	1
9/23/2012	3:53 PM	69.8	69.9	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.034	0	0	0	0.003	80.3	46	57.6	80	8.45	0.0726	24	1	100	1
9/23/2012	3:54 PM	69.8	69.8	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.033	0	0	0	0.003	80.1	46	57.5	79.8	8.45	0.0726	23	1	100	1
9/23/2012	3:55 PM	69.9	69.9	69.8	37	42.4	0	---	0	0	---	69.9	67	67	30.034	0	0	0	0.003	79.9	46	57.3	79.6	8.45	0.0727	24	1	100	1
9/23/2012	3:56 PM	69.8	69.9	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.032	0	0	0	0.003	79.9	46	57.3	79.6	8.45	0.0727	23	1	100	1
9/23/2012	3:57 PM	69.8	69.8	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.036	0	0	0	0.003	79.7	46	57.1	79.4	8.46	0.0727	22	1	95.7	1
9/23/2012	3:58 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.036	0	0	0	0.003	79.5	46	56.9	79.3	8.46	0.0727	24	1	100	1
9/23/2012	3:59 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.035	0	0	0	0.003	79.5	47	57.5	79.3	8.66	0.0727	23	1	100	1
9/23/2012	4:00 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.036	0	0	0	0.003	79.3	47	57.3	79.2	8.66	0.0727	24	1	100	1
9/23/2012	4:01 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.035	0	0	0	0.003	79.2	47	57.2	79.1	8.67	0.0728	23	1	100	1
9/23/2012	4:02 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.037	0	0	0	0.003	79.2	47	57.2	79.1	8.67	0.0728	23	1	100	1
9/23/2012	4:03 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.036	0	0	0	0.003	79	47	57	78.9	8.67	0.0728	24	1	100	1
9/23/2012	4:04 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.037	0	0	0	0.003	78.8	47	56.9	78.7	8.67	0.0728	23	1	100	1
9/23/2012	4:05 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.035	0	0	0	0.003	78.8	47	56.9	78.7	8.67	0.0728	24	1	100	1
9/23/2012	4:06 PM	69.5	69.7	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.034	0	0	0	0.003	78.6	47	56.7	78.4	8.68	0.0729	23	1	100	1
9/23/2012	4:07 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.035	0	0	0	0.003	78.4	47	56.5	78.2	8.68	0.0729	24	1	100	1
9/23/2012	4:08 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.036	0	0	0	0.003	78.4	47	56.5	78.2	8.68	0.0729	22	1	95.7	1
9/23/2012	4:09 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.034	0	0	0	0.003	78.2	47	56.3	78	8.69	0.0729	23	1	100	1
9/23/2012	4:10 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.036	0	0	0	0.003	78	47	56.1	77.8	8.69	0.073	23	1	100	1
9/23/2012	4:11 PM	69.3	69.3	69.3	37	41.9	0	---	0	0	---	69.3	66.5	66.5	30.034	0	0	0	0.003	78	47	56.1	77.8	8.69	0.073	23	1	100	1
9/23/2012	4:12 PM	69.3	69.3	69.3	37	41.9	0	---	0	0	---	69.3	66.5	66.5	30.034	0	0	0	0.003	77.9	47	56	77.6	8.69	0.073	23	1	100	1
9/23/2012	4:13 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.037	0	0	0	0.003	77.9	47	56	77.6	8.69	0.073	23	1	100	1
9/23/2012	4:14 PM	69.5	69.5	69.4	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.036	0	0	0	0.003	77.7	47	55.9	77.4	8.7	0.073	23	1	100	1
9/23/2012	4:15 PM	69.7	69.7	69.5	38	42.9	0	---	0	0	---	69.7	66.9	66.9	30.036	0	0	0	0.003	77.5	48	56.3	77.3	8.9	0.073	23	1	100	1
9/23/2012	4:16 PM	70	70	69.8	37	42.5	0	---	0	0	---	70	67.1	67.1	30.037	0	0	0	0.003	77.5	48	56.3	77.3	8.9	0.073	23	1	100	1
9/23/2012	4:17 PM	70.1	70.1	70	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.034	0	0	0	0.004	77.3	48	56.1	77	8.9	0.0731	23	1	100	1
9/23/2012	4:18 PM	70	70.1	70	37	42.5	0	---	0	0	---	70	67.1	67.1	30.037	0	0	0	0.003	77.3	48	56.1	77	8.9	0.0731	23	1	100	1
9/23/2012	4:19 PM	70	70	70	38	43.2	0	---	0	0	---	70	67.1	67.1	30.038	0	0	0	0.003	77.2	48	56	76.9	8.91	0.0731	22	1	95.7	1
9/23/2012	4:20 PM	70	70	70	38	43.2	0	---	0	0	---	70	67.1	67.1	30.038	0	0	0	0.003	77	48	55.8	76.7	8.91	0.0731	24	1	100	1
9/23/2012	4:21 PM	70.1	70.1	70	38	43.3	0	---	0	0	---	70.1	67.3	67.3	30.037	0	0	0	0.004	77	48	55.8	76.7	8.91	0.0731	22	1	95.7	1
9/23/2012	4:22 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.04	0	0	0	0.004	76.8	48	55.6	76.5	8.91	0.0732	24	1	100	1
9/23/2012	4:23 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.038	0	0	0	0.004	76.6	48	55.4	76.3	8.92	0.0732	22	1	95.7	1
9/23/2012	4:24 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.038	0	0	0	0.004	76.6	48	55.4	76.3	8.92	0.0732	24	1	100	1
9/23/2012	4:25 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.038	0	0	0	0.004	76.4	48	55.3	76.2	8.92	0.0732	23	1	100	1
9/23/2012	4:26 PM	70	70.1	70	37	42.5	0	---	0	0	---	70	67.1	67.1	30.039	0	0	0	0.003	76.4	48	55.3	76.2	8.92	0.0732	21	1	91.3	1
9/23/2012	4:27 PM	69.8	69.9	69.8	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.039	0	0	0	0.003	76.3	48	55.2	76.1	8.92	0.0733	24	1	100	1
9/23/2012	4:28 PM	69.7	69.8	69.7	38	42.9	0	---	0	0	---	69.7	66.9	66.9	30.041	0	0	0	0.003	76.1	48	55	75.9	8.93	0.0733	21	1	91.3	1
9/23/2012	4:29 PM	69.5	69.7	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.04	0	0	0	0.003	76.1	48	55	75.9	8.93	0.0733	24	1	100	1
9/23/2012	4:30 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.039	0	0	0	0.003	75.9	48	54.8	75.8	8.93	0.0733	22	1	95.7	1
9/23/2012	4:31 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.037	0	0	0	0.003	75.7	48	54.6	75.6	8.94	0.0734	23	1	100	1
9/23/2012	4:32 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.042	0	0	0	0.003	75.7	48	54.6	75.6	8.94	0.0734	22	1	95.7	1
9/23/2012	4:33 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.041	0	0	0	0.003	75.6	49	55.1	75.6	9.04	0.0734	23	1	100	1
9/23/2012	4:34 PM	69.6	69.6	69.5	39	43.5	0	---	0	0	---	69.6	66.9	66.9	30.041	0	0	0	0.003	75.4	49	54.9	75.4	9.04	0.0734	22	1	95.7	1
9/23/2012	4:35 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.041	0	0	0	0.003	75.4	49	54.9	75.4	9.04	0.0734	22	1	95.7	1
9/23/2012	4:36 PM	69.8	69.8	69.7	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.04	0	0	0	0.003	75.2	49	54.7	75.2	9.05	0.0734	23	1	100	1
9/23/2012	4:37 PM	69.9	69.9	69.8	37	42.4	0	---	0	0	---	69.9	67	67	30.04	0	0	0	0.003	75	49	54.5	75	9.05	0.0735	22	1	95.7	1
9/23/2012	4:38 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.041	0	0	0	0.004	75	49	54.5	75	9.05	0.0735	23	1	100	1
9/23/2012	4:39 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.042	0	0	0	0.004	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:40 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.042	0	0	0	0.003	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:41 PM	69.8	70	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.041	0	0	0	0.003	74.7	49	54.3	74.6	9.05	0.0735	23	1	100	1
9/23/2012	4:42 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.041	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:43 PM	69.5	69.7	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.042	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:44 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.044	0	0	0	0.003	74.3	49	53.9	74.1	9.05

Meteorological Data
Equity IRM

9/23/2012	6:03 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.06	0	0	0	0.002	67.2	53	49.5	66.1	9.91	0.0748	24	1	100	1
9/23/2012	6:04 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.058	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:05 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:06 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	23	1	100	1
9/23/2012	6:07 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.061	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	22	1	95.7	1
9/23/2012	6:08 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	24	1	100	1
9/23/2012	6:09 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	22	1	95.7	1
9/23/2012	6:10 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	23	1	100	1
9/23/2012	6:11 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.061	0	0	0	0.002	66.6	53	48.9	65.4	9.92	0.0749	23	1	100	1
9/23/2012	6:12 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.062	0	0	0	0.002	66.6	53	48.9	65.4	9.92	0.0749	22	1	95.7	1
9/23/2012	6:13 PM	67.8	67.8	67.7	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.062	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	24	1	100	1
9/23/2012	6:14 PM	67.7	67.7	67.7	36	39.8	0	---	0	0	---	67.7	64.8	64.8	30.063	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	21	1	91.3	1
9/23/2012	6:15 PM	67.6	67.7	67.6	36	39.7	0	---	0	0	---	67.6	64.7	64.7	30.062	0	0	0	0.002	66.4	53	48.7	65.2	9.92	0.0749	24	1	100	1
9/23/2012	6:16 PM	67.5	67.6	67.5	36	39.6	0	---	0	0	---	67.5	64.6	64.6	30.061	0	0	0	0.002	66.2	53	48.6	64.9	9.93	0.075	21	1	91.3	1
9/23/2012	6:17 PM	67.5	67.5	67.5	36	39.6	0	---	0	0	---	67.5	64.6	64.6	30.062	0	0	0	0.002	66.2	53	48.6	64.9	9.93	0.075	23	1	100	1
9/23/2012	6:18 PM	67.4	67.4	67.4	37	40.2	0	---	0	0	---	67.4	64.6	64.6	30.061	0	0	0	0.002	66.1	53	48.5	64.8	9.93	0.075	23	1	100	1
9/23/2012	6:19 PM	67.3	67.3	67.3	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.062	0	0	0	0.002	66.1	53	48.5	64.8	9.93	0.075	22	1	95.7	1
9/23/2012	6:20 PM	67.2	67.2	67.2	37	40	0	---	0	0	---	67.2	64.4	64.4	30.061	0	0	0	0.002	66.1	53	48.5	64.8	9.93	0.075	24	1	100	1
9/23/2012	6:21 PM	67.1	67.2	67.1	37	39.9	0	---	0	0	---	67.1	64.3	64.3	30.059	0	0	0	0.001	65.9	53	48.3	64.6	9.93	0.075	23	1	100	1
9/23/2012	6:22 PM	67	67.1	67	37	39.9	0	---	0	0	---	67	64.1	64.1	30.06	0	0	0	0.001	65.9	53	48.3	64.6	9.93	0.075	24	1	100	1
9/23/2012	6:23 PM	66.9	67	66.9	38	40.5	0	---	0	0	---	66.9	64.2	64.2	30.061	0	0	0	0.001	65.8	53	48.2	64.5	9.93	0.075	23	1	100	1
9/23/2012	6:24 PM	66.9	66.9	66.9	38	40.5	0	---	0	0	---	66.9	64.2	64.2	30.063	0	0	0	0.001	65.8	53	48.2	64.5	9.93	0.075	23	1	100	1
9/23/2012	6:25 PM	66.8	66.9	66.8	38	40.4	0	---	0	0	---	66.8	64	64	30.063	0	0	0	0.001	65.8	53	48.2	64.5	9.93	0.075	24	1	100	1
9/23/2012	6:26 PM	66.8	66.8	66.8	38	40.4	0	---	0	0	---	66.8	64	64	30.064	0	0	0	0.001	65.6	53	48	64.3	9.94	0.0751	23	1	100	1
9/23/2012	6:27 PM	66.7	66.8	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.063	0	0	0	0.001	65.6	54	48.5	64.4	10.13	0.075	24	1	100	1
9/23/2012	6:28 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.064	0	0	0	0.001	65.4	54	48.3	64.1	10.13	0.0751	23	1	100	1
9/23/2012	6:29 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.065	0	0	0	0.001	65.4	54	48.3	64.1	10.13	0.0751	23	1	100	1
9/23/2012	6:30 PM	66.6	66.7	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.065	0	0	0	0.001	65.4	54	48.3	64.1	10.13	0.0751	24	1	100	1
9/23/2012	6:31 PM	66.6	66.6	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.065	0	0	0	0.001	65.3	54	48.2	64	10.14	0.0751	23	1	100	1
9/23/2012	6:32 PM	66.6	66.6	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.065	0	0	0	0.001	65.3	54	48.2	64	10.14	0.0751	24	1	100	1
9/23/2012	6:33 PM	66.5	66.6	66.5	38	40.1	0	---	0	0	---	66.5	63.7	63.7	30.065	0	0	0	0.001	65.1	54	48	63.8	10.15	0.0751	23	1	100	1
9/23/2012	6:34 PM	66.5	66.5	66.5	38	40.1	0	---	0	0	---	66.5	63.7	63.7	30.064	0	0	0	0.001	65.1	54	48	63.8	10.15	0.0751	24	1	100	1
9/23/2012	6:35 PM	66.4	66.5	66.4	38	40	0	---	0	0	---	66.4	63.6	63.6	30.065	0	0	0	0.001	64.9	54	47.9	63.6	10.15	0.0752	23	1	100	1
9/23/2012	6:36 PM	66.4	66.4	66.4	39	40.7	0	---	0	0	---	66.4	63.7	63.7	30.065	0	0	0	0.001	64.9	54	47.9	63.6	10.15	0.0752	23	1	100	1
9/23/2012	6:37 PM	66.4	66.4	66.4	39	40.7	0	---	0	0	---	66.4	63.7	63.7	30.067	0	0	0	0.001	64.9	54	47.9	63.6	10.15	0.0752	24	1	100	1
9/23/2012	6:38 PM	66.3	66.4	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.066	0	0	0	0.001	64.8	54	47.8	63.5	10.15	0.0752	23	1	100	1
9/23/2012	6:39 PM	66.3	66.3	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.067	0	0	0	0.001	64.8	54	47.8	63.5	10.15	0.0752	24	1	100	1
9/23/2012	6:40 PM	66.3	66.3	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.068	0	0	0	0.001	64.6	54	47.6	63.3	10.15	0.0752	22	1	95.7	1
9/23/2012	6:41 PM	66.3	66.3	66.2	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.067	0	0	0	0.001	64.6	54	47.6	63.3	10.15	0.0752	23	1	100	1
9/23/2012	6:42 PM	66.2	66.3	66.2	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.065	0	0	0	0.001	64.6	54	47.6	63.3	10.15	0.0752	24	1	100	1
9/23/2012	6:43 PM	66.2	66.2	66.2	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.063	0	0	0	0.001	64.5	54	47.5	63.2	10.15	0.0752	23	1	100	1
9/23/2012	6:44 PM	66.1	66.2	66.1	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.067	0	0	0	0.001	64.5	54	47.5	63.2	10.15	0.0752	24	1	100	1
9/23/2012	6:45 PM	66.1	66.1	66.1	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.067	0	0	0	0.001	64.3	54	47.3	62.9	10.15	0.0753	23	1	100	1
9/23/2012	6:46 PM	66.1	66.1	66.1	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.067	0	0	0	0.001	64.3	54	47.3	62.9	10.15	0.0753	24	1	100	1
9/23/2012	6:47 PM	66.1	66.1	66.1	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.067	0	0	0	0.001	64.3	54	47.3	62.9	10.15	0.0753	23	1	100	1
9/23/2012	6:48 PM	66.1	66.1	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.066	0	0	0	0.001	64.1	54	47.1	62.7	10.15	0.0753	23	1	100	1
9/23/2012	6:49 PM	66	66.1	66	39	40.3	0	---	0	0	---	66	63.3	63.3	30.068	0	0	0	0.001	64.1	54	47.1	62.7	10.15	0.0753	24	1	100	1
9/23/2012	6:50 PM	66	66	66	39	40.3	0	---	0	0	---	66	63.3	63.3	30.07	0	0	0	0.001	64	54	47	62.6	10.15	0.0753	23	1	100	1
9/23/2012	6:51 PM	65.9	66	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.067	0	0	0	0.001	64	54	47	62.6	10.15	0.0753	24	1	100	1
9/23/2012	6:52 PM	65.9	66	65.9	38	39.6	0	---	0	0	---	65.9	63.1	63.1	30.067	0	0	0	0.001	63.8	54	46.8	62.4	10.15	0.0754	23	1	100	1
9/23/2012	6:53 PM	66	66	66	38	39.7	0	---	0	0	---	66	63.2	63.2	30.068	0	0	0	0.001	63.8	54	46.8	62.4	10.15	0.0754	23	1	100	1
9/23/2012	6:54 PM	66	66	65.9	38	39.7	0	---	0	0	---	66	63.2	63.2	30.07	0	0	0	0.001	63.8	54	46.8	62.4	10.15	0.0754	24	1	100	1
9/23/2012	6:55 PM	66	66	66	39	40.3	0	---	0	0	---	66	63.3	63.3	30.069	0	0	0	0.001	63.6	54	46.6	62.2	10.15	0.0754	23	1	100	1
9/23/2012	6:56 PM	65.9	66	65.9	38	39.6	0	---	0	0	---	65.9	63.1	63.1	30.07	0	0	0	0.001	63.6	54	46.6	62.2	10.15	0.0754	24	1	100	1
9/23/2012	6:57 PM	65.9	66	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.071	0	0	0	0.001	63.5	54	46.6	62.1	10.15	0.0754	23	1	100	1
9/23/2012	6:58 PM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.071	0	0	0	0.001	63.5	54	46.6	62.1	10.15	0.0754	23	1	100	1
9/23/2012	6:59 PM	65.9	66	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.072	0	0	0	0.001	63.5	54	46.6	62.1	10.15	0.0754	23	1	100	1
9/23/2012	7:00 PM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.073	0	0	0	0.001	63.3	54	46.4	61.8	10.15	0.0755	23	1	100	1
9/23/2012	7:01 PM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.072	0	0	0	0.001	63.3	54	46.4	61.8	10.15	0.0755	23	1	100	1
9/23/2012	7:02 PM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.073	0	0	0	0.001	63.3	54	46.4	61.8	10.15	0.0755	22	1	95.7	1
9/23/2012	7:03 PM	65.8	65.9	65.8	39	40.1	0	---	0	0	---	65.8	63.1	63.1	30.072	0	0	0	0.001	63.2	54	46.3	61.7	10.15	0.0755	24	1	100	1
9/23/2012	7:04 PM	65.8	65.9	65.8	40	40.8	0	---	0	0	---	65.8	63.2	63.2	30.072	0	0	0	0.001	63.2	55	46.8	61.8	10.25	0.0755	21	1	91.3	1
9/23/2012	7:05 PM	65.8	65.8	65.8	40	40.8	0	---	0	0	---	65.8	63.2	63.2	30.072	0	0	0	0.001	63	55	46.6	61.6	10.25	0.0755	23	1	100	1
9/23/2012	7:06 PM	65.8	65.8	65.8	40	40.8	0	---	0	0	---	65.8	63.2	63.2	30.072	0	0	0	0.001	63	55	46.6	61.6	10.25	0.0755	23	1	100	1
9/23/2012	7:07 PM	65.8	65.8	65.8	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.074	0	0	0	0.001	63	55	46.6	61.6	10.25	0.0755	23	1	100	1
9/23/2012	7:08 PM	65.8	65.8	65.8	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.074	0	0	0	0.001	62.9	55	46.5	61.5	10.25	0.0755	23	1	100	1
9/23/2012	7:09 PM	65.8	65.8	65.7	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.076	0	0	0	0.001	62.9	55	46.5	61.5	10.25	0.0755	22	1	95.7	1
9/23/2012	7:10 PM	65.8	65.8	65.7	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.076	0	0	0	0.001	62.9	55	46.5	61.5	10.25	0.0755	23	1	100	1
9/23/2012	7:11 PM	65.8	65.8	65.7	42	42.1	0	---	0	0	---	65.8	63.4	63.4	30.078	0	0	0	0.001	62.7	55	46.3	61.3	10.25	0.0756	23	1	100	1
9/23/2012	7:12 PM	65.7	65.8	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.078	0	0	0	0	62.7	55	46.3	61.3	10.25	0.0756	23	1	100	1
9/23/2012	7:13 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.077	0	0	0	0	62.7	55	46.3	61.3	10.25	0.0756	24	1	100	1
9/23/2012	7:14 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.078	0	0	0	0	62.5	55	46.1	61	10.25	0.0756	23	1	100	1
9/23/2012	7:15 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.076	0	0	0	0	62.5	55	46.1	61	10.25	0.0756	24	1	100	1
9/23/2012	7:16 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.076	0	0	0	0	62.5	55	46.1	61	10.25	0.0756	23	1	100	1
9/23/2012	7:17 PM	65.7	65.7	65.6	43	42.6	0	---	0	0	---	65.7	63.4	63.4	30.076	0	0	0	0	62.4	55	46	60.9	10.25	0.0756	22	1	95.7	1
9/23/2012	7:18 PM	65.6	65.6	65.6	42	41.9	0	---	0	0	---	65.6	63.2	63.2	30.077	0	0	0	0	62.4	55	46	60.9	10.25	0.0756	24	1	100	1
9/23/2012	7:19 PM	65.6	65.6	65.6	43	42.5	0	---	0	0	---	65.6	63.3	63.3	30.077	0	0	0	0	62.4	55	46	60.9	10.25	0.0756	23	1	100	1
9/23/2012	7:20 PM	65.5	65.6	65.5	43	42.4	0	---	0	0	---	65.5	63.2	63.2	30.078	0	0	0	0	62.2	55	45.8	60.7	10.25	0.0757	24	1	100	1
9/23/2012	7:21 PM	65.5	65.5	65.5	43	42.4	0	---	0	0	---	65.5	63.2	63.2	30.078	0	0	0	0	62.2	55	45.8	60.7	10.25	0.0757	23	1	100	1
9/23/2012	7:22 PM	65.5	65.5	65.4	43	42.4	0	---	0	0	---	65.5	63.2	63.2	30.076	0	0	0	0	62.2	55	45.8	60.7	10.25	0.0757	23	1	100	1
9/23/2012	7:23 PM	65.4	65.5	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.077	0	0	0	0	62.1	55	45.7	60.6	10.25	0.0757	24	1	100	1
9/23/2012	7:24 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.078	0	0	0	0	62.1	55	45.7	60.6	10.25	0.0757	23	1	100	1
9/23/2012	7:25 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.078	0	0	0	0	62.1	55	45.7	60.6	10.25	0.0757	24	1	100	1
9/23/2012	7:26 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.077	0	0	0	0	61.9	55	45.5	60.4	10.25	0.0757	23	1	100	1
9/23/2012	7:27 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.08	0	0	0	0	61.9	55	45.5	60.4	10.25	0.0757	24	1	100	1
9/23/2012	7:28 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.08	0	0	0	0	61.9	55	45.5	60.4	10.25	0.0757	23	1	100	1
9/23/2012	7:29 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.079	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	23	1	100	1
9/23/2012	7:30 PM	65.4	65.4	65.4	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.079	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	24	1	100	1
9/23/2012	7:31 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.08	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	23	1	100	1
9/23/2012	7:32 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	23	1	100	1
9/23/2012	7:33 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	22	1	95.7	1
9/23/2012	7:34 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	23	1	100	1
9/23/2012	7:35 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	24	1	100	1
9/23/2012	7:36 PM	65.4	65.4	65.3	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.079	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:37 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:38 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:39 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.081	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:40 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:41 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:42 PM	65.2	65.3	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	24	1	100	1
9/23/2012	7:43 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:44 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.084	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	24	1	100	1
9/23/

Meteorological Data
Equity IRM

9/23/2012	9:03 PM	63.6	63.6	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.099	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:04 PM	63.5	63.6	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.096	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:05 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:06 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:07 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:08 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:09 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:10 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:11 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:12 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:13 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:14 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.096	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:15 PM	63.6	63.6	63.5	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.101	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	22	1	95.7	1
9/23/2012	9:16 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.099	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:17 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.099	0	0	0.001	0	57.9	57	42.8	56.4	10.59	0.0764	23	1	100	1
9/23/2012	9:18 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.1	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	24	1	100	1
9/23/2012	9:19 PM	63.7	63.7	63.6	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.099	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	23	1	100	1
9/23/2012	9:20 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.102	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	22	1	95.7	1
9/23/2012	9:21 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.1	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	24	1	100	1
9/23/2012	9:22 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.102	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	22	1	95.7	1
9/23/2012	9:23 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.102	0	0	0.001	0	57.7	57	42.6	56.2	10.6	0.0765	24	1	100	1
9/23/2012	9:24 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.102	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	22	1	95.7	1
9/23/2012	9:25 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.104	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	24	1	100	1
9/23/2012	9:26 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.103	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	22	1	95.7	1
9/23/2012	9:27 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.103	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	23	1	100	1
9/23/2012	9:28 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.104	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	23	1	100	1
9/23/2012	9:29 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.103	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	23	1	100	1
9/23/2012	9:30 PM	63.6	63.7	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.6	57	42.5	56.1	10.6	0.0765	23	1	100	1
9/23/2012	9:31 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.103	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:32 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.103	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:33 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:34 PM	63.6	63.7	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.103	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:35 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:36 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	23	1	100	1
9/23/2012	9:37 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	22	1	95.7	1
9/23/2012	9:38 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.103	0	0	0.001	0	57.4	57	42.3	55.9	10.6	0.0765	22	1	95.7	1
9/23/2012	9:39 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.105	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:40 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.105	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:41 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:42 PM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.104	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:43 PM	63.5	63.6	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.104	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:44 PM	63.5	63.5	63.5	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.105	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	22	1	95.7	1
9/23/2012	9:45 PM	63.5	63.5	63.5	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.104	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:46 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.107	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0766	22	1	95.7	1
9/23/2012	9:47 PM	63.6	63.6	63.5	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.105	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	23	1	100	1
9/23/2012	9:48 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.105	0	0	0.001	0	57.3	57	42.2	55.8	10.6	0.0765	22	1	95.7	1
9/23/2012	9:49 PM	63.7	63.7	63.6	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	22	1	95.7	1
9/23/2012	9:50 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	24	1	100	1
9/23/2012	9:51 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	22	1	95.7	1
9/23/2012	9:52 PM	63.8	63.8	63.8	45	42	0	---	0	0	---	63.8	61.6	61.6	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	9:53 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	9:54 PM	63.7	63.8	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	24	1	100	1
9/23/2012	9:55 PM	63.7	63.8	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.109	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	9:56 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.109	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	9:57 PM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	24	1	100	1
9/23/2012	9:58 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	9:59 PM	63.7	63.7	63.7	45	41.9	0	---	0	0	---	63.7	61.5	61.5	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	10:00 PM	63.6	63.7	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	10:01 PM	63.6	63.7	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.108	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	23	1	100	1
9/23/2012	10:02 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.106	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	24	1	100	1
9/23/2012	10:03 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	22	1	95.7	1
9/23/2012	10:04 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	24	1	100	1
9/23/2012	10:05 PM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.107	0	0	0.001	0	57.1	57	42	55.6	10.61	0.0766	22	1	95.7	1
9/23/2012	10:06 PM	63.6	63.6	63.5	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.108	0	0	0.001	0	57.1	58	42.5	55.7	10.75	0.0766	24	1	100	1
9/23/2012	10:07 PM	63.6	63.6	63.5	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.108	0	0	0.001	0	57.1	58	42.5	55.7	10.75	0.0766	22	1	95.7	1
9/23/2012	10:08 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.111	0	0	0.001	0	57.1	58	42.5	55.7	10.75	0.0766	23	1	100	1
9/23/2012	10:09 PM	63.5	63.5	63.5	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.11	0	0	0.001	0	57.1	58	42.5	55.7	10.75	0.0766	24	1	100	1
9/23/2012	10:10 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.109	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:11 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.109	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:12 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.11	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:13 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.11	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:14 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.111	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:15 PM	63.4	63.5	63.4	47	42.8	0	---	0	0	---	63.4	61.3	61.3	30.111	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:16 PM	63.4	63.4	63.4	47	42.8	0	---	0	0	---	63.4	61.3	61.3	30.112	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:17 PM	63.3	63.4	63.3	47	42.7	0	---	0	0	---	63.3	61.2	61.2	30.111	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	23	1	100	1
9/23/2012	10:18 PM	63.3	63.4	63.3	47	42.7	0	---	0	0	---	63.3	61.2	61.2	30.111	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:19 PM	63.4	63.4	63.3	47	42.8	0	---	0	0	---	63.4	61.3	61.3	30.111	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	23	1	100	1
9/23/2012	10:20 PM	63.3	63.4	63.3	48	43.3	0	---	0	0	---	63.3	61.3	61.3	30.111	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	23	1	100	1
9/23/2012	10:21 PM	63.3	63.3	63.3	48	43.3	0	---	0	0	---	63.3	61.3	61.3	30.113	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:22 PM	63.2	63.3	63.2	48	43.2	0	---	0	0	---	63.2	61.2	61.2	30.114	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	23	1	100	1
9/23/2012	10:23 PM	63.2	63.2	63.2	48	43.2	0	---	0	0	---	63.2	61.2	61.2	30.113	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:24 PM	63.1	63.2	63.1	49	43.6	0	---	0	0	---	63.1	61.1	61.1	30.114	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:25 PM	63.1	63.1	63.1	49	43.6	0	---	0	0	---	63.1	61.1	61.1	30.114	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:26 PM	63	63.1	63	49	43.5	0	---	0	0	---	63	61	61	30.113	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:27 PM	63	63	63	49	43.5	0	---	0	0	---	63	61	61	30.114	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	23	1	100	1
9/23/2012	10:28 PM	62.9	63	62.9	49	43.4	0	---	0	0	---	62.9	60.9	60.9	30.113	0	0	0.001	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:29 PM	62.9	62.9	62.9	50	44	0	---	0	0	---	62.9	61	61	30.114	0	0	0.001	0	57	58	42.4	55.6	10.75	0.0766	23	1	100	1
9/23/2012	10:30 PM	62.8	62.9	62.8	50	43.9	0	---	0	0	---	62.8	60.9	60.9	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:31 PM	62.7	62.8	62.7	50	43.8	0	---	0	0	---	62.7	60.8	60.8	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:32 PM	62.7	62.7	62.7	51	44.3	0	---	0	0	---	62.7	60.9	60.9	30.113	0	0	0.002	0	57	57	41.9	55.5	10.61	0.0766	22	1	95.7	1
9/23/2012	10:33 PM	62.6	62.7	62.6	51	44.2	0	---	0	0	---	62.6	60.8	60.8	30.114	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:34 PM	62.5	62.6	62.5	51	44.1	0	---	0	0	---	62.5	60.7	60.7	30.114	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:35 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:36 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:37 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:38 PM	62.4	62.5	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.113	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:39 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:40 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:41 PM	62.3	62.4	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:42 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:43 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.116	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:44 PM	62.

Meteorological Data
Equity IRM

9/24/2012	12:03 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.115	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:04 AM	59.7	59.7	59.6	60	45.8	0	---	0	0	---	59.7	58.4	58.4	30.116	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	24	1	100	1
9/24/2012	12:05 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.117	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:06 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.115	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:07 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:08 AM	59.5	59.5	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:09 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:10 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.116	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:11 AM	59.4	59.5	59.4	59	45.1	0	---	0	0	---	59.4	58	58	30.115	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	24	1	100	1
9/24/2012	12:12 AM	59.4	59.4	59.4	58	44.6	0	---	0	0	---	59.4	58	58	30.114	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	23	1	100	1
9/24/2012	12:13 AM	59.3	59.4	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	59	40.3	53	10.95	0.0771	24	1	100	1
9/24/2012	12:14 AM	59.3	59.3	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	59	40.3	53	10.95	0.0771	23	1	100	1
9/24/2012	12:15 AM	59.3	59.3	59.3	59	45	0	---	0	0	---	59.3	57.9	57.9	30.114	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	23	1	100	1
9/24/2012	12:16 AM	59.2	59.3	59.2	61	45.8	0	---	0	0	---	59.2	58	58	30.115	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771	23	1	100	1
9/24/2012	12:17 AM	59.2	59.2	59.2	61	45.8	0	---	0	0	---	59.2	58	58	30.114	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771	23	1	100	1
9/24/2012	12:18 AM	59.2	59.2	59.1	62	46.2	0	---	0	0	---	59.2	58	58	30.115	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771	23	1	100	1
9/24/2012	12:19 AM	59.1	59.2	59.1	65	47.3	0	---	0	0	---	59.1	58.1	58.1	30.113	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771	23	1	100	1
9/24/2012	12:20 AM	59.1	59.2	59.1	66	47.7	0	---	0	0	---	59.1	58.2	58.2	30.111	0	0	0.004	0	54.2	59	40.2	52.9	10.95	0.0771	22	1	95.7	1
9/24/2012	12:21 AM	59.1	59.1	59.1	66	47.7	0	---	0	0	---	59.1	58.2	58.2	30.113	0	0	0.004	0	54	59	40	52.8	10.95	0.0771	23	1	100	1
9/24/2012	12:22 AM	59	59.1	59	65	47.2	0	---	0	0	---	59	58	58	30.113	0	0	0.004	0	54	59	40	52.8	10.95	0.0771	23	1	100	1
9/24/2012	12:23 AM	58.9	59	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.112	0	0	0.004	0	54	59	40	52.8	10.95	0.0771	23	1	100	1
9/24/2012	12:24 AM	58.9	58.9	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.112	0	0	0.004	0	54	59	40	52.8	10.95	0.0771	23	1	100	1
9/24/2012	12:25 AM	58.8	58.9	58.8	64	46.6	0	---	0	0	---	58.8	57.7	57.7	30.112	0	0	0.004	0	54	59	40	52.8	10.95	0.0771	22	1	95.7	1
9/24/2012	12:26 AM	58.8	58.9	58.8	64	46.6	0	---	0	0	---	58.8	57.7	57.7	30.115	0	0	0.004	0	53.9	59	39.9	52.7	10.95	0.0771	23	1	100	1
9/24/2012	12:27 AM	58.8	58.8	58.8	67	47.9	0	---	0	0	---	58.8	57.9	57.9	30.113	0	0	0.004	0	53.9	59	39.9	52.7	10.95	0.0771	22	1	95.7	1
9/24/2012	12:28 AM	58.7	58.8	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.115	0	0	0.004	0	53.9	59	39.9	52.7	10.95	0.0771	24	1	100	1
9/24/2012	12:29 AM	58.7	58.7	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.114	0	0	0.004	0	53.9	59	39.9	52.7	10.95	0.0771	22	1	95.7	1
9/24/2012	12:30 AM	58.6	58.7	58.6	66	47.3	0	---	0	0	---	58.6	57.7	57.7	30.113	0	0	0.004	0	53.9	59	39.9	52.7	10.95	0.0771	24	1	100	1
9/24/2012	12:31 AM	58.6	58.6	58.6	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.113	0	0	0.004	0	53.7	59	39.7	52.5	10.95	0.0772	23	1	100	1
9/24/2012	12:32 AM	58.5	58.6	58.5	65	46.8	0	---	0	0	---	58.5	57.5	57.5	30.112	0	0	0.005	0	53.7	59	39.7	52.5	10.95	0.0772	23	1	100	1
9/24/2012	12:33 AM	58.5	58.5	58.5	64	46.4	0	---	0	0	---	58.5	57.4	57.4	30.112	0	0	0.005	0	53.7	59	39.7	52.5	10.95	0.0772	23	1	100	1
9/24/2012	12:34 AM	58.5	58.5	58.5	64	46.4	0	---	0	0	---	58.5	57.4	57.4	30.111	0	0	0.005	0	53.7	59	39.7	52.5	10.95	0.0772	23	1	100	1
9/24/2012	12:35 AM	58.4	58.5	58.4	65	46.7	0	---	0	0	---	58.4	57.4	57.4	30.112	0	0	0.005	0	53.6	59	39.6	52.4	10.95	0.0772	24	1	100	1
9/24/2012	12:36 AM	58.4	58.4	58.4	64	46.3	0	---	0	0	---	58.4	57.3	57.3	30.109	0	0	0.005	0	53.6	59	39.6	52.4	10.95	0.0772	23	1	100	1
9/24/2012	12:37 AM	58.4	58.4	58.4	62	45.4	0	---	0	0	---	58.4	57.2	57.2	30.111	0	0	0.005	0	53.6	59	39.6	52.4	10.95	0.0772	24	1	100	1
9/24/2012	12:38 AM	58.4	58.4	58.4	64	46.3	0	---	0	0	---	58.4	57.3	57.3	30.111	0	0	0.005	0	53.6	59	39.6	52.4	10.95	0.0772	23	1	100	1
9/24/2012	12:39 AM	58.3	58.4	58.3	63	45.8	0	---	0	0	---	58.3	57.2	57.2	30.112	0	0	0.005	0	53.4	59	39.4	52.2	10.95	0.0772	23	1	100	1
9/24/2012	12:40 AM	58.3	58.3	58.3	63	45.8	0	---	0	0	---	58.3	57.2	57.2	30.111	0	0	0.005	0	53.4	59	39.4	52.2	10.95	0.0772	24	1	100	1
9/24/2012	12:41 AM	58.3	58.3	58.3	63	45.8	0	---	0	0	---	58.3	57.2	57.2	30.111	0	0	0.005	0	53.4	59	39.4	52.2	10.95	0.0772	23	1	100	1
9/24/2012	12:42 AM	58.2	58.3	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.112	0	0	0.005	0	53.4	59	39.4	52.2	10.95	0.0772	24	1	100	1
9/24/2012	12:43 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.108	0	0	0.005	0	53.3	59	39.3	52.1	10.95	0.0772	23	1	100	1
9/24/2012	12:44 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.109	0	0	0.005	0	53.3	59	39.3	52.1	10.95	0.0772	23	1	100	1
9/24/2012	12:45 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	53.3	59	39.3	52.1	10.95	0.0772	24	1	100	1
9/24/2012	12:46 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	53.3	59	39.3	52.1	10.95	0.0772	23	1	100	1
9/24/2012	12:47 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	53.3	59	39.3	52.1	10.95	0.0772	24	1	100	1
9/24/2012	12:48 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	53.1	59	39.1	51.9	10.95	0.0773	23	1	100	1
9/24/2012	12:49 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	53.1	59	39.1	51.9	10.95	0.0773	24	1	100	1
9/24/2012	12:50 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.112	0	0	0.005	0	53.1	59	39.1	51.9	10.95	0.0773	23	1	100	1
9/24/2012	12:51 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.113	0	0	0.005	0	53.1	59	39.1	51.9	10.95	0.0773	23	1	100	1
9/24/2012	12:52 AM	58.1	58.2	58.1	63	45.6	0	---	0	0	---	58.1	57	57	30.112	0	0	0.005	0	53	59	39	51.8	10.95	0.0773	24	1	100	1
9/24/2012	12:53 AM	58.2	58.2	58.1	63	45.7	0	---	0	0	---	58.2	57.1	57.1	30.114	0	0	0.005	0	53	59	39	51.8	10.95	0.0773	22	1	95.7	1
9/24/2012	12:54 AM	58.1	58.1	58.1	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.113	0	0	0.005	0	53	59	39	51.8	10.95	0.0773	24	1	100	1
9/24/2012	12:55 AM	58.1	58.1	58.1	60	44.3	0	---	0	0	---	58.1	56.8	56.8	30.113	0	0	0.005	0	53	59	39	51.8	10.95	0.0773	23	1	100	1
9/24/2012	12:56 AM	58.2	58.2	58.1	60	44.4	0	---	0	0	---	58.2	56.9	56.9	30.114	0	0	0.005	0	53	59	39	51.8	10.95	0.0773	23	1	100	1
9/24/2012	12:57 AM	58.2	58.2	58.1	60	44.4	0	---	0	0	---	58.2	56.9	56.9	30.114	0	0	0.005	0	52.8	59	38.9	51.7	10.95	0.0773	24	1	100	1
9/24/2012	12:58 AM	58.2	58.2	58.2	59	43.9	0	---	0	0	---	58.2	56.8	56.8	30.115	0	0	0.005	0	52.8	59	38.9	51.7	10.95	0.0773	23	1	100	1
9/24/2012	12:59 AM	58.3	58.3	58.2	58	43.6	0	---	0	0	---	58.3	56.9	56.9	30.116	0	0	0.005	0	52.8	59	38.9	51.7	10.95	0.0773	24	1	100	1
9/24/2012	1:00 AM	58.5	58.5	58.4	57	43.3	0	---	0	0	---	58.5	57	57	30.117	0	0	0.005	0	52.8	59	38.9	51.7	10.95	0.0773	23	1	100	1
9/24/2012	1:01 AM	58.7	58.7	58.5	57	43.5	0	---	0	0	---	58.7	57.2	57.2	30.119	0	0	0.004	0	52.8	59	38.9	51.7	10.95	0.0773	23	1	100	1
9/24/2012	1:02 AM	58.9	58.9	58.7	56	43.2	0	---	0	0	---	58.9	57.4	57.4	30.119	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:03 AM	59.2	59.2	58.9	55	43	0	---	0	0	---	59.2	57.6	57.6	30.12	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:04 AM	59.3	59.3	59.2	54	42.6	0	---	0	0	---	59.3	57.6	57.6	30.121	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:05 AM	59.5	59.5	59.3	54	42.8	0	---	0	0	---	59.5	57.8	57.8	30.122	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:06 AM	59.6	59.6	59.5	54	42.9	0	---	0	0	---	59.6	57.9	57.9	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:07 AM	59.6	59.6	59.6	54	42.9	0	---	0	0	---	59.6	57.9	57.9	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:08 AM	59.7	59.7	59.7	55	43.5	0	---	0	0	---	59.7	58.1	58.1	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:09 AM	59.8	59.8	59.7	54	43.1	0	---	0	0	---	59.8	58.1	58.1	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:10 AM	59.8	59.8	59.8	54	43.1	0	---	0	0	---	59.8	58.1	58.1	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:11 AM	59.8	59.8	59.8	54	43.1	0	---	0	0	---	59.8	58.1	58.1	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:12 AM	59.8	59.8	59.8	55	43.6	0	---	0	0	---	59.8	58.2	58.2	30.123	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:13 AM	59.8	59.8	59.8	55	43.6	0	---	0	0	---	59.8	58.2	58.2	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:14 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:15 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:16 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:17 AM	59.7	59.8	59.7	56	44	0	---	0	0	---	59.7	58.2	58.2	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:18 AM	59.7	59.7	59.7	56	44	0	---	0	0	---	59.7	58.2	58.2	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:19 AM	59.7	59.7	59.6	56	44	0	---	0	0	---	59.7	58.2	58.2	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:20 AM	59.6	59.6	59.6	56	43.9	0	---	0	0	---	59.6	58.1	58.1	30.125	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:21 AM	59.6	59.6	59.6	56	43.9	0	---	0	0	---	59.6	58.1	58.1	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:22 AM	59.6	59.6	59.6	57	44.3	0	---	0	0	---	59.6	58.1	58.1	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:23 AM	59.5	59.6	59.5	56	43.8	0	---	0	0	---	59.5	58	58	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:24 AM	59.5	59.6	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	22	1	95.7	1
9/24/2012	1:25 AM	59.5	59.5	59.5	56	43.8	0	---	0	0	---	59.5	58	58	30.122	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:26 AM	59.5	59.5	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.124	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	24	1	100	1
9/24/2012	1:27 AM	59.5	59.5	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.122	0	0	0.004	0	52.7	59	38.8	51.6	10.95	0.0774	23	1	100	1
9/24/2012	1:28 AM	59.5	59.5	59.4	57	44.2	0	---	0	0	---	59.5	58	58	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:29 AM	59.4	59.5	59.4	57	44.2	0	---	0	0	---	59.4	57.9	57.9	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:30 AM	59.4	59.4	59.4	57	44.2	0	---	0	0	---	59.4	57.9	57.9	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:31 AM	59.3	59.4	59.3	57	44.1	0	---	0	0	---	59.3	57.8	57.8	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:32 AM	59.3	59.3	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.118	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:33 AM	59.2	59.3	59.2	59	44.9	0	---	0	0	---	59.2	57.8	57.8	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:34 AM	59.2	59.2	59.1	58	44.4	0	---	0	0	---	59.2	57.8	57.8	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:35 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:36 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:37 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:38 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:39 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:40 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:41 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:42 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:43 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:44 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
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Meteorological Data
Equity IRM

9/24/2012	3:03 AM	57.9	58	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:04 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:05 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.108	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	23	1	100	1
9/24/2012	3:06 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.107	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	22	1	95.7	1
9/24/2012	3:07 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:08 AM	57.9	57.9	57.8	62	45	0	---	0	0	---	57.9	56.7	56.7	30.11	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:09 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.111	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:10 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:11 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	23	1	100	1
9/24/2012	3:12 AM	57.7	57.8	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:13 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.11	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	23	1	100	1
9/24/2012	3:14 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:15 AM	57.6	57.7	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.109	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	23	1	100	1
9/24/2012	3:16 AM	57.6	57.7	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.109	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	24	1	100	1
9/24/2012	3:17 AM	57.6	57.6	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.11	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	22	1	95.7	1
9/24/2012	3:18 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.109	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	23	1	100	1
9/24/2012	3:19 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.11	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	24	1	100	1
9/24/2012	3:20 AM	57.4	57.5	57.4	63	44.9	0	---	0	0	---	57.4	56.3	56.3	30.108	0	0	0.005	0	51.7	59	37.8	50.7	10.95	0.0775	23	1	100	1
9/24/2012	3:21 AM	57.4	57.4	57.4	63	44.9	0	---	0	0	---	57.4	56.3	56.3	30.108	0	0	0.005	0	51.5	59	37.6	50.5	10.95	0.0775	24	1	100	1
9/24/2012	3:22 AM	57.3	57.4	57.3	63	44.8	0	---	0	0	---	57.3	56.2	56.2	30.109	0	0	0.005	0	51.5	59	37.6	50.5	10.95	0.0775	23	1	100	1
9/24/2012	3:23 AM	57.3	57.3	57.3	65	45.6	0	---	0	0	---	57.3	56.3	56.3	30.111	0	0	0.005	0	51.5	59	37.6	50.5	10.95	0.0775	23	1	100	1
9/24/2012	3:24 AM	57.3	57.3	57.3	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.111	0	0	0.005	0	51.5	59	37.6	50.5	10.95	0.0775	24	1	100	1
9/24/2012	3:25 AM	57.2	57.3	57.2	65	45.5	0	---	0	0	---	57.2	56.2	56.2	30.11	0	0	0.005	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	3:26 AM	57.2	57.2	57.2	64	45.1	0	---	0	0	---	57.2	56.1	56.1	30.108	0	0	0.005	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	3:27 AM	57.1	57.2	57.1	64	45	0	---	0	0	---	57.1	56	56	30.109	0	0	0.005	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	3:28 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.109	0	0	0.005	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	3:29 AM	57	57.1	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.109	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	3:30 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.108	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	3:31 AM	56.9	57	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.109	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	24	1	100	1
9/24/2012	3:32 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.108	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	22	1	95.7	1
9/24/2012	3:33 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.108	0	0	0.006	0	51.1	59	37.3	50.1	10.95	0.0776	24	1	100	1
9/24/2012	3:34 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.107	0	0	0.006	0	51.1	59	37.3	50.1	10.95	0.0776	23	1	100	1
9/24/2012	3:35 AM	56.7	56.8	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.104	0	0	0.006	0	51.1	59	37.3	50.1	10.95	0.0776	23	1	100	1
9/24/2012	3:36 AM	56.7	56.7	56.7	66	45.5	0	---	0	0	---	56.7	55.7	55.7	30.104	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0776	24	1	100	1
9/24/2012	3:37 AM	56.6	56.7	56.6	65	45	0	---	0	0	---	56.6	55.6	55.6	30.103	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0776	23	1	100	1
9/24/2012	3:38 AM	56.6	56.6	56.6	66	45.4	0	---	0	0	---	56.6	55.6	55.6	30.103	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0776	24	1	100	1
9/24/2012	3:39 AM	56.5	56.6	56.5	64	44.5	0	---	0	0	---	56.5	55.4	55.4	30.102	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0776	23	1	100	1
9/24/2012	3:40 AM	56.5	56.6	56.5	64	44.5	0	---	0	0	---	56.5	55.4	55.4	30.101	0	0	0.006	0	50.8	60	37.4	49.9	11.13	0.0776	23	1	100	1
9/24/2012	3:41 AM	56.5	56.6	56.5	66	45.3	0	---	0	0	---	56.5	55.5	55.5	30.102	0	0	0.006	0	50.8	60	37.4	49.9	11.13	0.0776	24	1	100	1
9/24/2012	3:42 AM	56.6	56.6	56.5	65	45	0	---	0	0	---	56.6	55.6	55.6	30.101	0	0	0.006	0	50.8	60	37.4	49.9	11.13	0.0776	23	1	100	1
9/24/2012	3:43 AM	56.6	56.6	56.5	64	44.6	0	---	0	0	---	56.6	55.5	55.5	30.101	0	0	0.006	0	50.8	60	37.4	49.9	11.13	0.0776	24	1	100	1
9/24/2012	3:44 AM	56.6	56.6	56.6	64	44.6	0	---	0	0	---	56.6	55.5	55.5	30.102	0	0	0.006	0	50.6	60	37.2	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	3:45 AM	56.6	56.6	56.6	64	44.6	0	---	0	0	---	56.6	55.5	55.5	30.102	0	0	0.006	0	50.6	60	37.2	49.7	11.14	0.0777	23	1	100	1
9/24/2012	3:46 AM	56.7	56.7	56.7	64	44.7	0	---	0	0	---	56.7	55.6	55.6	30.103	0	0	0.006	0	50.6	60	37.2	49.7	11.14	0.0777	23	1	100	1
9/24/2012	3:47 AM	56.7	56.7	56.7	63	44.2	0	---	0	0	---	56.7	55.6	55.6	30.103	0	0	0.006	0	50.6	60	37.2	49.7	11.14	0.0777	23	1	100	1
9/24/2012	3:48 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.104	0	0	0.006	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	3:49 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.104	0	0	0.006	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	3:50 AM	56.9	56.9	56.8	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.104	0	0	0.006	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	3:51 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.103	0	0	0.006	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	3:52 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.104	0	0	0.006	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	3:53 AM	56.7	56.8	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.104	0	0	0.006	0	50.3	60	36.9	49.5	11.14	0.0777	23	1	100	1
9/24/2012	3:54 AM	56.6	56.7	56.6	65	45	0	---	0	0	---	56.6	55.6	55.6	30.103	0	0	0.006	0	50.3	60	36.9	49.5	11.14	0.0777	23	1	100	1
9/24/2012	3:55 AM	56.5	56.6	56.5	66	45.3	0	---	0	0	---	56.5	55.5	55.5	30.104	0	0	0.006	0	50.3	60	36.9	49.5	11.14	0.0777	23	1	100	1
9/24/2012	3:56 AM	56.5	56.6	56.5	66	45.3	0	---	0	0	---	56.5	55.5	55.5	30.105	0	0	0.006	0	50.3	60	36.9	49.5	11.14	0.0777	22	1	95.7	1
9/24/2012	3:57 AM	56.4	56.4	56.4	66	45.2	0	---	0	0	---	56.4	55.4	55.4	30.104	0	0	0.006	0	50.3	60	36.9	49.5	11.14	0.0777	24	1	100	1
9/24/2012	3:58 AM	56.3	56.4	56.3	66	45.1	0	---	0	0	---	56.3	55.3	55.3	30.105	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0777	22	1	95.7	1
9/24/2012	3:59 AM	56.2	56.3	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.106	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0777	23	1	100	1
9/24/2012	4:00 AM	56.2	56.2	56.2	65	44.6	0	---	0	0	---	56.2	55.2	55.2	30.105	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0777	23	1	100	1
9/24/2012	4:01 AM	56.2	56.2	56.2	65	44.6	0	---	0	0	---	56.2	55.2	55.2	30.106	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0777	23	1	100	1
9/24/2012	4:02 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.109	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:03 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.109	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:04 AM	56.2	56.2	56.2	65	44.6	0	---	0	0	---	56.2	55.2	55.2	30.111	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	22	1	95.7	1
9/24/2012	4:05 AM	56.2	56.2	56.1	65	44.6	0	---	0	0	---	56.2	55.2	55.2	30.111	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:06 AM	56.2	56.2	56.2	65	44.6	0	---	0	0	---	56.2	55.2	55.2	30.112	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:07 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.112	0	0	0.006	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:08 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.112	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:09 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.11	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:10 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.11	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:11 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.11	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:12 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.111	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:13 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.111	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:14 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.11	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:15 AM	56.2	56.2	56.2	66	45	0	---	0	0	---	56.2	55.2	55.2	30.111	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:16 AM	56.3	56.3	56.2	65	44.7	0	---	0	0	---	56.3	55.3	55.3	30.112	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:17 AM	56.4	56.4	56.3	64	44.4	0	---	0	0	---	56.4	55.3	55.3	30.113	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:18 AM	56.4	56.4	56.4	64	44.4	0	---	0	0	---	56.4	55.3	55.3	30.111	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	22	1	95.7	1
9/24/2012	4:19 AM	56.6	56.6	56.5	64	44.6	0	---	0	0	---	56.6	55.5	55.5	30.112	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:20 AM	56.6	56.6	56.6	64	44.6	0	---	0	0	---	56.6	55.5	55.5	30.114	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:21 AM	56.7	56.7	56.6	63	44.2	0	---	0	0	---	56.7	55.6	55.6	30.114	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:22 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.113	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:23 AM	56.9	56.9	56.8	63	44.4	0	---	0	0	---	56.9	55.8	55.8	30.114	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:24 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.114	0	0	0.006	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:25 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.114	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:26 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.114	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:27 AM	57.3	57.3	57.2	63	44.8	0	---	0	0	---	57.3	56.2	56.2	30.113	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:28 AM	57.3	57.3	57.2	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.114	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:29 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:30 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.116	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:31 AM	57.4	57.4	57.3	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.116	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:32 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:33 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.114	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:34 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:35 AM	57.4	57.4	57.3	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:36 AM	57.3	57.4	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:37 AM	57.3	57.4	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.114	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:38 AM	57.3	57.3	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:39 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:40 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.117	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:41 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.118	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:42 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:43 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	24	1	100	1
9/24/2012	4:44 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56

Meteorological Data
Equity IRM

9/24/2012	6:03 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:04 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:05 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:06 AM	56.8	56.9	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:07 AM	56.9	56.9	56.8	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:08 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:09 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:10 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:11 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:12 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:13 AM	57	57	56.9	64	44.9	0	---	0	0	---	57	55.9	55.9	30.126	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:14 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:15 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:16 AM	57	57.1	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:17 AM	57.1	57.1	57	63	44.6	0	---	0	0	---	57.1	56	56	30.131	0	0	0.005	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:18 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.131	0	0	0.005	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:19 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.132	0	0	0.005	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:20 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.132	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	24	1	100	1
9/24/2012	6:21 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.132	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:22 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.131	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:23 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.131	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:24 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	24	1	100	1
9/24/2012	6:25 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.13	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:26 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:27 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.131	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	24	1	100	1
9/24/2012	6:28 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.13	0	0	0.005	0	51.1	59	37.3	50.1	10.95	0.0777	23	1	100	1
9/24/2012	6:29 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	24	1	100	1
9/24/2012	6:30 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:31 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.128	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	22	1	95.7	1
9/24/2012	6:32 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.128	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	22	1	95.7	1
9/24/2012	6:33 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:34 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.128	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:35 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:36 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.129	0	0	0.005	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:37 AM	57	57.1	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:38 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.129	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	22	1	95.7	1
9/24/2012	6:39 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.128	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	24	1	100	1
9/24/2012	6:40 AM	57	57	56.9	64	44.9	0	---	0	0	---	57	55.9	55.9	30.129	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	21	1	91.3	1
9/24/2012	6:41 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.132	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0776	23	1	100	1
9/24/2012	6:42 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.131	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	6:43 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.132	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	22	1	95.7	1
9/24/2012	6:44 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.133	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	6:45 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.135	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	6:46 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.136	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	6:47 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.136	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	22	1	95.7	1
9/24/2012	6:48 AM	56.9	56.9	56.8	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.139	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	6:49 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.14	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	6:50 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.139	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	6:51 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.14	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	6:52 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.141	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	23	1	100	1
9/24/2012	6:53 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.141	0	0	0.006	0	51.4	59	37.5	50.4	10.95	0.0776	24	1	100	1
9/24/2012	6:54 AM	56.8	56.8	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.141	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	23	1	100	1
9/24/2012	6:55 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.141	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	23	1	100	1
9/24/2012	6:56 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.141	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	24	1	100	1
9/24/2012	6:57 AM	56.9	56.9	56.8	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.14	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	23	1	100	1
9/24/2012	6:58 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.14	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	24	1	100	1
9/24/2012	6:59 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.142	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	23	1	100	1
9/24/2012	7:00 AM	56.9	56.9	56.8	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.142	0	0	0.006	0	51.2	59	37.4	50.2	10.95	0.0777	24	1	100	1
9/24/2012	7:01 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.142	0	0	0.006	0	51.2	60	37.8	50.3	11.13	0.0777	23	1	100	1
9/24/2012	7:02 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.142	0	0	0.006	0	51.4	60	38	50.5	11.12	0.0776	23	1	100	1
9/24/2012	7:03 AM	56.9	56.9	56.9	63	44.4	0	---	0	0	---	56.9	55.8	55.8	30.143	0	0	0.006	0	51.4	60	38	50.5	11.12	0.0776	24	1	100	1
9/24/2012	7:04 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.144	0	0	0.006	0	51.4	61	38.4	50.5	11.32	0.0776	23	1	100	1
9/24/2012	7:05 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.144	0	0	0.006	0	51.4	62	38.8	50.5	11.55	0.0776	23	1	100	1
9/24/2012	7:06 AM	57	57	56.9	62	44.1	0	---	0	0	---	57	55.8	55.8	30.145	0	0	0.006	0	51.5	62	38.9	50.6	11.55	0.0776	23	1	100	1
9/24/2012	7:07 AM	57	57	57	62	44.1	0	---	0	0	---	57	55.8	55.8	30.145	0	0	0.006	0	51.5	62	38.9	50.6	11.55	0.0776	23	1	100	1
9/24/2012	7:08 AM	57	57	56.9	62	44.1	0	---	0	0	---	57	55.8	55.8	30.145	0	0	0.006	0	51.5	62	38.9	50.6	11.55	0.0776	24	1	100	1
9/24/2012	7:09 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.145	0	0	0.006	0	51.7	62	39.1	50.8	11.55	0.0776	23	1	100	1
9/24/2012	7:10 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.146	0	0	0.006	0	51.7	61	38.7	50.8	11.32	0.0776	24	1	100	1
9/24/2012	7:11 AM	57	57	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.145	0	0	0.006	0	51.7	62	39.1	50.8	11.55	0.0776	23	1	100	1
9/24/2012	7:12 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.148	0	0	0.006	0	51.8	62	39.2	50.9	11.55	0.0776	23	1	100	1
9/24/2012	7:13 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.149	0	0	0.006	0	51.8	62	39.2	50.9	11.55	0.0776	24	1	100	1
9/24/2012	7:14 AM	57	57	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.146	0	0	0.006	0	51.8	62	39.2	50.9	11.55	0.0776	23	1	100	1
9/24/2012	7:15 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.15	0	0	0.005	0	51.8	62	39.2	50.9	11.55	0.0776	23	1	100	1
9/24/2012	7:16 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.149	0	0	0.005	0	52	62	39.4	51.1	11.55	0.0775	23	1	100	1
9/24/2012	7:17 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.15	0	0	0.005	0	52	62	39.4	51.1	11.55	0.0775	24	1	100	1
9/24/2012	7:18 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.149	0	0	0.005	0	52	63	39.8	51.1	11.75	0.0775	23	1	100	1
9/24/2012	7:19 AM	57.1	57.1	57	64	45	0	---	0	0	---	57.1	56	56	30.149	0	0	0.005	0	52	62	39.4	51.1	11.55	0.0775	23	1	100	1
9/24/2012	7:20 AM	57	57.1	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.149	0	0	0.006	0	52.1	63	39.9	51.2	11.75	0.0775	24	1	100	1
9/24/2012	7:21 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.149	0	0	0.006	0	52.1	63	39.9	51.2	11.75	0.0775	23	1	100	1
9/24/2012	7:22 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.148	0	0	0.006	0	52.1	63	39.9	51.2	11.75	0.0775	24	1	100	1
9/24/2012	7:23 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.149	0	0	0.006	0	52.1	63	39.9	51.2	11.75	0.0775	22	1	95.7	1
9/24/2012	7:24 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.149	0	0	0.006	0	52.3	63	40.1	51.4	11.75	0.0775	22	1	95.7	1
9/24/2012	7:25 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.147	0	0	0.006	0	52.3	63	40.1	51.4	11.75	0.0775	24	1	100	1
9/24/2012	7:26 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.148	0	0	0.006	0	52.3	63	40.1	51.4	11.75	0.0775	22	1	95.7	1
9/24/2012	7:27 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.147	0	0	0.006	0	52.3	63	40.1	51.4	11.75	0.0775	24	1	100	1
9/24/2012	7:28 AM	57	57	56.9	64	44.9	0	---	0	0	---	57	55.9	55.9	30.148	0	0	0.006	0	52.4	63	40.2	51.5	11.75	0.0774	22	1	95.7	1
9/24/2012	7:29 AM	57.1	57.1	57.1	62	44.2	0	---	0	0	---	57.1	55.9	55.9	30.147	0	0	0.005	0	52.4	63	40.2	51.5	11.75	0.0774	24	1	100	1
9/24/2012	7:30 AM	57.1	57.1	57.1	62	44.2	0	---	0	0	---	57.1	55.9	55.9	30.148	0	0	0.005	0	52.6	63	40.4	51.7	11.75	0.0774	22	1	95.7	1
9/24/2012	7:31 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.148	0	0	0.005	0	52.6	63	40.4	51.7	11.75	0.0774	23	1	100	1
9/24/2012	7:32 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.146	0	0	0.005	0	52.7	63	40.5	51.8	11.75	0.0774	23	1	100	1
9/24/2012	7:33 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.147	0	0	0.005	0	52.7	63	40.5	51.8	11.75	0.0774	22	1	95.7	1
9/24/2012	7:34 AM	57	57.1	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.146	0	0	0.006	0	52.8	63	40.5	51.8	11.75	0.0774	24	1	100	1
9/24/2012	7:35 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.145	0	0	0.005	0	52.8	63	40.5	51.8	11.75	0.0774	22	1	95.7	1
9/24/2012	7:36 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.144	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	23	1	100	1
9/24/2012	7:37 AM	57.2	57.2	57.1	64	45.1	0	---	0	0	---	57.2	56.1	56.1	30.145	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	24	1	100	1
9/24/2012	7:38 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.15	0	0	0.005	0	53.1	63	40.8	52.1	11.75	0.0773	23	1	100	1
9/24/2012	7:39 AM	57.3	57.3	57.2	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.151	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	24	1	100	1
9/24/2012	7:40 AM	57.3	57.3	57.3	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.148	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	23	1	100	1
9/24/2012	7:41 AM	57.4	57.4	57.3	64	45.3	0	---	0	0	---	57.4	56.3	56.3	30.147	0	0	0.005	0	53.4	63	41.1	52.4	11.75	0.0773	24	1	100	1
9/24/2012	7:42 AM	57.4	57.4	57.4	63	44.9	0	---	0	0	---	57.4	56.3	56.3	30.146	0	0	0.005	0	53.6	63	41.3	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:43 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.146	0	0	0.005	0	53.7	63	41.4	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:44 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.148	0	0	0.005	0	53.9	63	41.6	52.8	11.75	0.0772	24	1	100	1
9/24/2012	7:45 AM	57.6	57.6	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.15	0	0	0.005	0	54	63	41.7	52

Meteorological Data
Equity IRM

9/24/2012	9:03 AM	60.7	60.8	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.158	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	24	1	100	1
9/24/2012	9:04 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.156	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	22	1	95.7	1
9/24/2012	9:05 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:06 AM	60.8	60.8	60.7	56	45	0	---	0	0	---	60.8	59.3	59.3	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	24	1	100	1
9/24/2012	9:07 AM	60.9	60.9	60.8	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.158	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:08 AM	60.9	60.9	60.9	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.157	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:09 AM	61	61.1	60.9	55	44.7	0	---	0	0	---	61	59.4	59.4	30.16	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:10 AM	61.2	61.2	61.1	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.161	0	0	0.003	0	76.8	45	53.8	76.3	8.41	0.0735	22	1	95.7	1
9/24/2012	9:11 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.158	0	0	0.003	0	77	45	54	76.5	8.41	0.0735	24	1	100	1
9/24/2012	9:12 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.161	0	0	0.003	0	77.2	45	54.2	76.7	8.41	0.0735	22	1	95.7	1
9/24/2012	9:13 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.16	0	0	0.003	0	77.2	45	54.2	76.7	8.41	0.0735	24	1	100	1
9/24/2012	9:14 AM	61.3	61.3	61.2	55	45	0	---	0	0	---	61.3	59.7	59.7	30.161	0	0	0.003	0	77.3	45	54.3	76.8	8.4	0.0735	22	1	95.7	1
9/24/2012	9:15 AM	61.3	61.3	61.3	53	44	0	---	0	0	---	61.3	59.6	59.6	30.16	0	0	0.003	0	77.5	44	53.9	77	8.2	0.0734	23	1	100	1
9/24/2012	9:16 AM	61.3	61.3	61.3	54	44.5	0	---	0	0	---	61.3	59.6	59.6	30.162	0	0	0.003	0	77.7	44	54	77.2	8.2	0.0734	23	1	100	1
9/24/2012	9:17 AM	61.3	61.3	61.3	53	44	0	---	0	0	---	61.3	59.6	59.6	30.163	0	0	0.003	0	77.9	44	54.2	77.4	8.19	0.0734	22	1	95.7	1
9/24/2012	9:18 AM	61.3	61.3	61.3	53	44	0	---	0	0	---	61.3	59.6	59.6	30.163	0	0	0.003	0	78.2	44	54.5	77.7	8.19	0.0733	24	1	100	1
9/24/2012	9:19 AM	61.4	61.4	61.3	53	44.1	0	---	0	0	---	61.4	59.7	59.7	30.164	0	0	0.002	0	78.4	44	54.7	77.9	8.18	0.0733	22	1	95.7	1
9/24/2012	9:20 AM	61.5	61.5	61.4	52	43.7	0	---	0	0	---	61.5	59.7	59.7	30.164	0	0	0.002	0	78.6	44	54.9	78.2	8.18	0.0733	24	1	100	1
9/24/2012	9:21 AM	61.7	61.7	61.6	52	43.9	0	---	0	0	---	61.7	59.9	59.9	30.165	0	0	0.002	0	78.8	43	54.4	78.3	8.05	0.0733	22	1	95.7	1
9/24/2012	9:22 AM	61.7	61.8	61.7	52	43.9	0	---	0	0	---	61.7	59.9	59.9	30.162	0	0	0.002	0	79	43	54.6	78.5	8.05	0.0732	23	1	100	1
9/24/2012	9:23 AM	61.8	61.8	61.8	52	44	0	---	0	0	---	61.8	60	60	30.163	0	0	0.002	0	79.2	43	54.8	78.7	8.05	0.0732	22	1	95.7	1
9/24/2012	9:24 AM	61.8	61.8	61.8	51	43.5	0	---	0	0	---	61.8	60	60	30.163	0	0	0.002	0	79.3	42	54.2	78.7	7.86	0.0732	23	1	100	1
9/24/2012	9:25 AM	61.8	61.8	61.8	51	43.5	0	---	0	0	---	61.8	60	60	30.161	0	0	0.002	0	79.5	42	54.4	78.8	7.86	0.0731	24	1	100	1
9/24/2012	9:26 AM	61.8	61.8	61.8	52	44	0	---	0	0	---	61.8	60	60	30.161	0	0	0.002	0	79.7	42	54.6	79	7.86	0.0731	23	1	100	1
9/24/2012	9:27 AM	61.8	61.8	61.7	51	43.5	0	---	0	0	---	61.8	60	60	30.161	0	0	0.002	0	79.7	42	54.6	79	7.86	0.0731	24	1	100	1
9/24/2012	9:28 AM	61.8	61.8	61.8	52	44	0	---	0	0	---	61.8	60	60	30.16	0	0	0.002	0	79.9	41	54.1	79	7.75	0.0731	23	1	100	1
9/24/2012	9:29 AM	61.9	61.9	61.8	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.163	0	0	0.002	0	80.1	41	54.3	79.2	7.75	0.0731	23	1	100	1
9/24/2012	9:30 AM	62	62	61.9	51	43.7	0	---	0	0	---	62	60.2	60.2	30.164	0	0	0.002	0	80.3	41	54.5	79.4	7.74	0.073	24	1	100	1
9/24/2012	9:31 AM	62	62	62	50	43.1	0	---	0	0	---	62	60.1	60.1	30.164	0	0	0.002	0	80.3	41	54.5	79.4	7.74	0.073	23	1	100	1
9/24/2012	9:32 AM	62	62	62	50	43.1	0	---	0	0	---	62	60.1	60.1	30.163	0	0	0.002	0	80.5	41	54.6	79.6	7.74	0.073	24	1	100	1
9/24/2012	9:33 AM	61.9	62	61.9	50	43	0	---	0	0	---	61.9	60	60	30.165	0	0	0.002	0	80.6	41	54.7	79.7	7.74	0.073	23	1	100	1
9/24/2012	9:34 AM	61.8	61.9	61.8	51	43.5	0	---	0	0	---	61.8	60	60	30.167	0	0	0.002	0	80.6	41	54.7	79.7	7.74	0.073	23	1	100	1
9/24/2012	9:35 AM	61.8	61.8	61.8	49	42.4	0	---	0	0	---	61.8	59.8	59.8	30.164	0	0	0.002	0	80.8	41	54.9	79.9	7.73	0.073	24	1	100	1
9/24/2012	9:36 AM	61.8	61.8	61.8	50	43	0	---	0	0	---	61.8	59.9	59.9	30.165	0	0	0.002	0	81	41	55.1	80.1	7.73	0.0729	22	1	95.7	1
9/24/2012	9:37 AM	61.8	61.8	61.8	49	42.4	0	---	0	0	---	61.8	59.8	59.8	30.163	0	0	0.002	0	81	41	55.1	80.1	7.73	0.0729	24	1	100	1
9/24/2012	9:38 AM	61.8	61.8	61.8	50	43	0	---	0	0	---	61.8	59.9	59.9	30.166	0	0	0.002	0	81.2	40	54.6	80.3	7.55	0.0729	23	1	100	1
9/24/2012	9:39 AM	61.8	61.9	61.8	49	42.4	0	---	0	0	---	61.8	59.8	59.8	30.165	0	0	0.002	0	81.2	40	54.6	80.3	7.55	0.0729	24	1	100	1
9/24/2012	9:40 AM	61.8	61.8	61.8	49	42.4	0	---	0	0	---	61.8	59.8	59.8	30.163	0	0	0.002	0	81.4	40	54.8	80.5	7.55	0.0729	23	1	100	1
9/24/2012	9:41 AM	61.7	61.7	61.7	51	43.4	0	---	0	0	---	61.7	59.9	59.9	30.165	0	0	0.002	0	81.4	40	54.8	80.5	7.55	0.0729	23	1	100	1
9/24/2012	9:42 AM	61.8	61.8	61.7	50	43	0	---	0	0	---	61.8	59.9	59.9	30.163	0	0	0.002	0	81.6	40	54.9	80.8	7.55	0.0728	24	1	100	1
9/24/2012	9:43 AM	61.7	61.8	61.7	51	43.4	0	---	0	0	---	61.7	59.9	59.9	30.163	0	0	0.002	0	81.6	40	54.9	80.8	7.55	0.0728	23	1	100	1
9/24/2012	9:44 AM	61.7	61.8	61.7	50	42.9	0	---	0	0	---	61.7	59.8	59.8	30.161	0	0	0.002	0	81.8	39	54.4	80.9	7.41	0.0728	24	1	100	1
9/24/2012	9:45 AM	61.7	61.8	61.7	51	43.4	0	---	0	0	---	61.7	59.9	59.9	30.162	0	0	0.002	0	81.8	39	54.4	80.9	7.41	0.0728	23	1	100	1
9/24/2012	9:46 AM	61.8	61.8	61.8	50	43	0	---	0	0	---	61.8	59.9	59.9	30.163	0	0	0.002	0	82	39	54.6	81.2	7.41	0.0728	23	1	100	1
9/24/2012	9:47 AM	61.8	61.8	61.8	50	43	0	---	0	0	---	61.8	59.9	59.9	30.165	0	0	0.002	0	82	39	54.6	81.2	7.41	0.0728	24	1	100	1
9/24/2012	9:48 AM	61.8	61.8	61.8	50	43	0	---	0	0	---	61.8	59.9	59.9	30.164	0	0	0.002	0	82.1	39	54.7	81.3	7.41	0.0728	23	1	100	1
9/24/2012	9:49 AM	61.7	61.8	61.7	50	42.9	0	---	0	0	---	61.7	59.8	59.8	30.164	0	0	0.002	0	82.1	38	54	81.2	7.25	0.0728	24	1	100	1
9/24/2012	9:50 AM	61.8	61.8	61.7	49	42.4	0	---	0	0	---	61.8	59.8	59.8	30.162	0	0	0.002	0	82.1	39	54.7	81.3	7.41	0.0728	23	1	100	1
9/24/2012	9:51 AM	61.8	61.8	61.7	48	41.9	0	---	0	0	---	61.8	59.7	59.7	30.161	0	0	0.002	0	82.3	38	54.2	81.4	7.25	0.0728	23	1	100	1
9/24/2012	9:52 AM	61.7	61.7	61.7	47	41.3	0	---	0	0	---	61.7	59.5	59.5	30.162	0	0	0.002	0	82.3	38	54.2	81.4	7.25	0.0728	24	1	100	1
9/24/2012	9:53 AM	61.7	61.7	61.6	46	40.7	0	---	0	0	---	61.7	59.5	59.5	30.162	0	0	0.002	0	82.3	38	54.2	81.4	7.25	0.0728	23	1	100	1
9/24/2012	9:54 AM	61.7	61.7	61.6	47	41.3	0	---	0	0	---	61.7	59.5	59.5	30.163	0	0	0.002	0	82.5	38	54.3	81.7	7.25	0.0727	24	1	100	1
9/24/2012	9:55 AM	61.7	61.7	61.6	46	40.7	0	---	0	0	---	61.7	59.5	59.5	30.162	0	0	0.002	0	82.5	37	53.6	81.6	7.1	0.0728	23	1	100	1
9/24/2012	9:56 AM	61.8	61.8	61.7	47	41.3	0	---	0	0	---	61.8	59.7	59.7	30.163	0	0	0.002	0	82.5	37	53.6	81.6	7.1	0.0728	24	1	100	1
9/24/2012	9:57 AM	62	62	61.8	48	42.1	0	---	0	0	---	62	59.9	59.9	30.162	0	0	0.002	0	82.5	37	53.6	81.6	7.1	0.0728	23	1	100	1
9/24/2012	9:58 AM	62.1	62.1	62	47	41.6	0	---	0	0	---	62.1	60	60	30.162	0	0	0.002	0	82.5	37	53.6	81.6	7.1	0.0728	23	1	100	1
9/24/2012	9:59 AM	62.2	62.2	62.1	45	40.6	0	---	0	0	---	62.2	59.9	59.9	30.163	0	0	0.002	0	82.7	37	53.8	81.8	7.1	0.0727	24	1	100	1
9/24/2012	10:00 AM	62.3	62.3	62.2	45	40.7	0	---	0	0	---	62.3	60	60	30.162	0	0	0.002	0	82.7	36	53	81.6	6.84	0.0728	22	1	95.7	1
9/24/2012	10:01 AM	62.4	62.4	62.3	46	41.3	0	---	0	0	---	62.4	60.2	60.2	30.161	0	0	0.002	0	82.7	37	53.8	81.8	7.1	0.0727	24	1	100	1
9/24/2012	10:02 AM	62.6	62.6	62.4	44	40.4	0	---	0	0	---	62.6	60.2	60.2	30.162	0	0	0.002	0	82.7	37	53.8	81.8	7.1	0.0727	22	1	95.7	1
9/24/2012	10:03 AM	62.6	62.6	62.6	44	40.4	0	---	0	0	---	62.6	60.2	60.2	30.163	0	0	0.002	0	82.9	36	53.2	81.9	6.83	0.0727	23	1	100	1
9/24/2012	10:04 AM	62.7	62.7	62.6	45	41	0	---	0	0	---	62.7	60.4	60.4	30.164	0	0	0.002	0	82.9	36	53.2	81.9	6.83	0.0727	22	1	95.7	1
9/24/2012	10:05 AM	62.6	62.6	62.6	45	40.9	0	---	0	0	---	62.6	60.3	60.3	30.163	0	0	0.002	0	82.9	36	53.2	81.9	6.83	0.0727	23	1	100	1
9/24/2012	10:06 AM	62.5	62.5	62.4	45	40.9	0	---	0	0	---	62.5	60.2	60.2	30.162	0	0	0.002	0	82.9	36	53.2	81.9	6.83	0.0727	23	1	100	1
9/24/2012	10:07 AM	62.5	62.5	62.4	46	41.4	0	---	0	0	---	62.5	60.3	60.3	30.16	0	0	0.002	0	82.9	35	52.4	81.7	6.73	0.0728	22	1	95.7	1
9/24/2012	10:08 AM	62.5	62.5	62.5	44	40.3	0	---	0	0	---	62.5	60.1	60.1	30.161	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	24	1	100	1
9/24/2012	10:09 AM	62.5	62.5	62.5	44	40.3	0	---	0	0	---	62.5	60.1	60.1	30.162	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	22	1	95.7	1
9/24/2012	10:10 AM	62.4	62.5	62.4	45	40.8	0	---	0	0	---	62.4	60.1	60.1	30.163	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:11 AM	62.3	62.4	62.3	45	40.7	0	---	0	0	---	62.3	60	60	30.162	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:12 AM	62.3	62.3	62.3	46	41.2	0	---	0	0	---	62.3	60.1	60.1	30.163	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:13 AM	62.3	62.4	62.3	47	41.8	0	---	0	0	---	62.3	60.2	60.2	30.163	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:14 AM	62.3	62.3	62.3	47	41.8	0	---	0	0	---	62.3	60.2	60.2	30.163	0	0	0.002	0	83.1	34	51.8	81.8	6.53	0.0728	23	1	100	1
9/24/2012	10:15 AM	62.3	62.3	62.3	46	41.2	0	---	0	0	---	62.3	60.1	60.1	30.164	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:16 AM	62.4	62.4	62.3	45	40.8	0	---	0	0	---	62.4	60.1	60.1	30.165	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	24	1	100	1
9/24/2012	10:17 AM	62.4	62.4	62.4	45	40.8	0	---	0	0	---	62.4	60.1	60.1	30.166	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:18 AM	62.5	62.5	62.5	44	40.3	0	---	0	0	---	62.5	60.1	60.1	30.164	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	24	1	100	1
9/24/2012	10:19 AM	62.7	62.7	62.5	45	41	0	---	0	0	---	62.7	60.4	60.4	30.162	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:20 AM	62.7	62.7	62.7	44	40.5	0	---	0	0	---	62.7	60.3	60.3	30.164	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	24	1	100	1
9/24/2012	10:21 AM	62.8	62.8	62.8	45	41.1	0	---	0	0	---	62.8	60.5	60.5	30.164	0	0	0.002	0	83.1	35	52.6	81.9	6.73	0.0727	23	1	100	1
9/24/2012	10:22 AM	62.8	62.8	62.8	45	41.1	0	---	0	0	---	62.8	60.5	60.5	30.163	0	0	0.002	0	83.3	35	52.8	82.3	6.72	0.0727	23	1	100	1
9/24/2012	10:23 AM	62.9	62.9	62.8	45	41.2	0	---	0	0	---	62.9	60.6	60.6	30.163	0	0	0.001	0	83.3	35	52.8	82.3	6.72	0.0727	24	1	100	1
9/24/2012	10:24 AM	63	63	62.9	45	41.3	0	---	0	0	---	63	60.7	60.7	30.163	0	0	0.001	0	83.3	35	52.8	82.3	6.72	0.0727	23	1	100	1
9/24/2012	10:25 AM	63	63	62.9	45	41.3	0	---	0	0	---	63	60.7	60.7	30.164	0	0	0.001	0	83.3	35	52.8	82.3	6.72	0.0727	24	1	100	1
9/24/2012	10:26 AM	63	63	63	46	41.9	0	---	0	0	---	63	60.8	60.8	30.163	0	0	0.001	0	83.3	34	52	82.1	6.52	0.0727	23	1	100	1
9/24/2012	10:27 AM	63.1	63.1	63	46	42	0	---	0	0	---	63.1	60.9	60.9	30.163	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:28 AM	63.1	63.1	63.1	45	41.4	0	---	0	0	---	63.1	60.8	60.8	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:29 AM	63.1	63.1	63.1	44	40.8	0	---	0	0	---	63.1	60.7	60.7	30.166	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:30 AM	63.1	63.1	63.1	45	41.4	0	---	0	0	---	63.1	60.8	60.8	30.165	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:31 AM	63.1	63.2	63.1	44	40.8	0	---	0	0	---	63.1	60.7	60.7	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:32 AM	63.2	63.2	63.1	45	41.5	0	---	0	0	---	63.2	60.9	60.9	30.165	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:33 AM	63.2	63.2	63.2	44	40.9	0	---	0	0	---	63.2	60.8	60.8	30.165	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:34 AM	63.4	63.4	63.3	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.163	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:35 AM	63.6	63.6	63.4	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:36 AM	63.7	63.7	63.6	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:37 AM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:38 AM	63.9	63.9	63.9	45	42.1	0	---	0	0	---	63.9	61.7	61.7	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:39 AM	63.7	63.9	63.7	42	40.2	0	---	0	0	---	63.7	61.2	61.2	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:40 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.164	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:41 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:42 AM	63.6	63.7	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.164	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	24	1	100	1
9/24/2012	10:43 AM	63.6	63.6	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:44 AM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.

Meteorological Data
Equity IRM

9/24/2012	12:03 PM	65.7	65.8	65.7	38	39.4	0	---	0	0	---	65.7	62.9	62.9	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:04 PM	65.7	65.7	65.7	39	40.1	0	---	0	0	---	65.7	63	63	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	24	1	100	1
9/24/2012	12:05 PM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.152	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:06 PM	65.5	65.6	65.5	39	39.9	0	---	0	0	---	65.5	62.8	62.8	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	24	1	100	1
9/24/2012	12:07 PM	65.3	65.4	65.3	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.152	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:08 PM	65.2	65.3	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:09 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.153	0	0	0	0	83.1	30	48.5	81.1	6.05	0.0728	24	1	100	1
9/24/2012	12:10 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:11 PM	65.2	65.2	65.2	41	40.9	0	---	0	0	---	65.2	62.7	62.7	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	24	1	100	1
9/24/2012	12:12 PM	65.3	65.3	65.2	41	41	0	---	0	0	---	65.3	62.8	62.8	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:13 PM	65.4	65.4	65.3	41	41.1	0	---	0	0	---	65.4	62.9	62.9	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:14 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	24	1	100	1
9/24/2012	12:15 PM	65.5	65.5	65.4	41	41.2	0	---	0	0	---	65.5	63	63	30.154	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0729	23	1	100	1
9/24/2012	12:16 PM	65.5	65.5	65.5	42	41.8	0	---	0	0	---	65.5	63.1	63.1	30.153	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0729	24	1	100	1
9/24/2012	12:17 PM	65.5	65.5	65.5	40	40.5	0	---	0	0	---	65.5	62.9	62.9	30.151	0	0	0	0	82.9	32	50	81.2	6.29	0.0728	23	1	100	1
9/24/2012	12:18 PM	65.5	65.5	65.4	40	40.5	0	---	0	0	---	65.5	62.9	62.9	30.152	0	0	0	0	82.7	32	49.8	81	6.3	0.0729	24	1	100	1
9/24/2012	12:19 PM	65.5	65.5	65.4	41	41.2	0	---	0	0	---	65.5	63	63	30.151	0	0	0	0	82.7	32	49.8	81	6.3	0.0729	23	1	100	1
9/24/2012	12:20 PM	65.5	65.5	65.5	40	40.5	0	---	0	0	---	65.5	62.9	62.9	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:21 PM	65.4	65.5	65.4	41	41.1	0	---	0	0	---	65.4	62.9	62.9	30.148	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:22 PM	65.5	65.5	65.4	42	41.8	0	---	0	0	---	65.5	63.1	63.1	30.149	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:23 PM	65.4	65.5	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:24 PM	65.5	65.5	65.5	41	41.2	0	---	0	0	---	65.5	63	63	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	22	1	95.7	1
9/24/2012	12:25 PM	65.6	65.6	65.5	42	41.9	0	---	0	0	---	65.6	63.2	63.2	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	22	1	95.7	1
9/24/2012	12:26 PM	65.7	65.7	65.6	42	42	0	---	0	0	---	65.7	63.3	63.3	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:27 PM	65.6	65.6	65.6	41	41.3	0	---	0	0	---	65.6	63.1	63.1	30.149	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	22	1	95.7	1
9/24/2012	12:28 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.149	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:29 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.148	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	22	1	95.7	1
9/24/2012	12:30 PM	65.7	65.7	65.7	42	42	0	---	0	0	---	65.7	63.3	63.3	30.15	0	0	0	0	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:31 PM	65.8	65.8	65.7	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.148	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:32 PM	65.9	65.9	65.8	42	42.1	0	---	0	0	---	65.9	63.5	63.5	30.148	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:33 PM	66.1	66.1	65.9	42	42.3	0	---	0	0	---	66.1	63.7	63.7	30.148	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:34 PM	66.2	66.2	66.1	42	42.4	0	---	0	0	---	66.2	63.8	63.8	30.147	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	22	1	95.7	1
9/24/2012	12:35 PM	66.3	66.3	66.2	41	41.9	0	---	0	0	---	66.3	63.8	63.8	30.146	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	24	1	100	1
9/24/2012	12:36 PM	66.4	66.4	66.3	41	42	0	---	0	0	---	66.4	63.9	63.9	30.147	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:37 PM	66.6	66.6	66.5	41	42.2	0	---	0	0	---	66.6	64.2	64.2	30.148	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:38 PM	66.7	66.7	66.6	40	41.6	0	---	0	0	---	66.7	64.2	64.2	30.146	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:39 PM	66.8	66.8	66.8	40	41.7	0	---	0	0	---	66.8	64.3	64.3	30.146	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:40 PM	66.9	66.9	66.8	40	41.8	0	---	0	0	---	66.9	64.4	64.4	30.148	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:41 PM	67.1	67.1	66.9	41	42.6	0	---	0	0	---	67.1	64.7	64.7	30.145	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:42 PM	67.1	67.1	67.1	40	42	0	---	0	0	---	67.1	64.6	64.6	30.145	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:43 PM	67.1	67.1	67.1	40	42	0	---	0	0	---	67.1	64.6	64.6	30.145	0	0	0	0.001	82.7	31	49	80.9	6.15	0.0729	24	1	100	1
9/24/2012	12:44 PM	67	67.1	67	39	41.2	0	---	0	0	---	67	64.4	64.4	30.143	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:45 PM	66.8	66.9	66.8	40	41.7	0	---	0	0	---	66.8	64.3	64.3	30.144	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	24	1	100	1
9/24/2012	12:46 PM	66.7	66.8	66.7	41	42.2	0	---	0	0	---	66.7	64.3	64.3	30.144	0	0	0	0.001	82.7	32	49.8	81	6.3	0.0728	23	1	100	1
9/24/2012	12:47 PM	66.5	66.6	66.5	40	41.4	0	---	0	0	---	66.5	64	64	30.144	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	24	1	100	1
9/24/2012	12:48 PM	66.4	66.5	66.4	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.143	0	0	0	0.001	82.5	32	49.7	80.8	6.3	0.0729	23	1	100	1
9/24/2012	12:49 PM	66.2	66.3	66.2	40	41.2	0	---	0	0	---	66.2	63.6	63.6	30.143	0	0	0	0.001	82.3	31	48.6	80.5	6.15	0.0729	23	1	100	1
9/24/2012	12:50 PM	66.2	66.2	66.2	40	41.2	0	---	0	0	---	66.2	63.6	63.6	30.143	0	0	0	0.001	82.1	32	49.3	80.4	6.31	0.0729	24	1	100	1
9/24/2012	12:51 PM	66.1	66.2	66.1	40	41.1	0	---	0	0	---	66.1	63.5	63.5	30.143	0	0	0	0.001	82	32	49.2	80.3	6.31	0.0729	23	1	100	1
9/24/2012	12:52 PM	66	66.1	66	41	41.6	0	---	0	0	---	66	63.5	63.5	30.143	0	0	0	0.001	81.8	31	48.2	80	6.15	0.073	24	1	100	1
9/24/2012	12:53 PM	65.8	66	65.8	40	40.8	0	---	0	0	---	65.8	63.2	63.2	30.141	0	0	0	0.001	81.8	31	48.2	80	6.15	0.073	23	1	100	1
9/24/2012	12:54 PM	65.7	65.8	65.7	40	40.7	0	---	0	0	---	65.7	63.1	63.1	30.14	0	0	0	0	81.6	31	48	79.8	6.15	0.073	23	1	100	1
9/24/2012	12:55 PM	65.7	65.7	65.7	41	41.3	0	---	0	0	---	65.7	63.2	63.2	30.14	0	0	0	0	81.6	31	48	79.8	6.15	0.073	24	1	100	1
9/24/2012	12:56 PM	65.8	65.8	65.8	41	41.4	0	---	0	0	---	65.8	63.3	63.3	30.141	0	0	0	0.001	81.6	31	48	79.8	6.15	0.073	23	1	100	1
9/24/2012	12:57 PM	65.9	65.9	65.9	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.139	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.0731	23	1	100	1
9/24/2012	12:58 PM	65.9	65.9	65.9	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.139	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.0731	23	1	100	1
9/24/2012	12:59 PM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.141	0	0	0	0.001	81.2	32	48.5	79.4	6.33	0.0731	24	1	100	1
9/24/2012	1:00 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.139	0	0	0	0.001	81.2	31	47.7	79.3	6.15	0.0731	23	1	100	1
9/24/2012	1:01 PM	65.7	65.8	65.7	38	39.4	0	---	0	0	---	65.7	62.9	62.9	30.14	0	0	0	0	81	31	47.5	79.1	6.15	0.0731	23	1	100	1
9/24/2012	1:02 PM	65.7	65.7	65.7	39	40.1	0	---	0	0	---	65.7	63	63	30.138	0	0	0	0	81	31	47.5	79.1	6.15	0.0731	24	1	100	1
9/24/2012	1:03 PM	65.7	65.7	65.7	41	41.3	0	---	0	0	---	65.7	63.2	63.2	30.139	0	0	0	0	80.8	31	47.3	78.9	6.15	0.0732	23	1	100	1
9/24/2012	1:04 PM	65.8	65.8	65.7	40	40.8	0	---	0	0	---	65.8	63.2	63.2	30.138	0	0	0	0.001	80.8	31	47.3	78.9	6.15	0.0732	24	1	100	1
9/24/2012	1:05 PM	65.9	65.9	65.8	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.136	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	23	1	100	1
9/24/2012	1:06 PM	66	66	65.9	38	39.7	0	---	0	0	---	66	63.2	63.2	30.135	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	23	1	100	1
9/24/2012	1:07 PM	66.1	66.1	66	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.135	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	24	1	100	1
9/24/2012	1:08 PM	66.2	66.2	66.1	37	39.1	0	---	0	0	---	66.2	63.3	63.3	30.135	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	1:09 PM	66.4	66.4	66.3	39	40.7	0	---	0	0	---	66.4	63.7	63.7	30.133	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	24	1	100	1
9/24/2012	1:10 PM	66.6	66.6	66.5	40	41.5	0	---	0	0	---	66.6	64.1	64.1	30.134	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	22	1	95.7	1
9/24/2012	1:11 PM	66.7	66.7	66.6	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.133	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	24	1	100	1
9/24/2012	1:12 PM	66.7	66.7	66.7	40	41.6	0	---	0	0	---	66.7	64.2	64.2	30.134	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	22	1	95.7	1
9/24/2012	1:13 PM	66.8	66.8	66.8	40	41.7	0	---	0	0	---	66.8	64.3	64.3	30.135	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	1:14 PM	66.8	66.8	66.8	41	42.3	0	---	0	0	---	66.8	64.4	64.4	30.134	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	1:15 PM	66.7	66.8	66.7	40	41.6	0	---	0	0	---	66.7	64.2	64.2	30.136	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	1:16 PM	66.7	66.7	66.7	40	41.6	0	---	0	0	---	66.7	64.2	64.2	30.136	0	0	0	0.001	80.5	31	47.1	78.6	6.15	0.0732	10	1	43.5	1
9/24/2012	1:17 PM	66.6	66.6	66.6	40	41.5	0	---	0	0	---	66.6	64.1	64.1	30.134	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	6	1	26.1	1
9/24/2012	1:18 PM	66.5	66.6	66.5	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.133	0	0	0	0.001	80.6	34	49.6	79	6.63	0.0731	23	1	100	1
9/24/2012	1:19 PM	66.4	66.5	66.4	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.134	0	0	0	0.001	80.6	33	48.8	78.9	6.53	0.0731	22	1	95.7	1
9/24/2012	1:20 PM	66.4	66.4	66.4	41	42	0	---	0	0	---	66.4	63.9	63.9	30.132	0	0	0	0.001	80.8	35	50.6	79.3	6.82	0.073	23	1	100	1
9/24/2012	1:21 PM	66.5	66.5	66.4	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.132	0	0	0	0.001	80.8	36	51.4	79.4	6.92	0.073	23	1	100	1
9/24/2012	1:22 PM	66.5	66.5	66.5	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.129	0	0	0	0.001	80.8	36	51.4	79.4	6.92	0.073	23	1	100	1
9/24/2012	1:23 PM	66.7	66.7	66.5	40	41.6	0	---	0	0	---	66.7	64.2	64.2	30.129	0	0	0	0.001	80.8	36	51.4	79.4	6.92	0.073	22	1	95.7	1
9/24/2012	1:24 PM	66.7	66.7	66.7	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.129	0	0	0	0.001	81	35	50.8	79.5	6.81	0.073	24	1	100	1
9/24/2012	1:25 PM	66.9	66.9	66.8	40	41.8	0	---	0	0	---	66.9	64.4	64.4	30.129	0	0	0	0.001	81	35	50.8	79.5	6.81	0.073	23	1	100	1
9/24/2012	1:26 PM	67.1	67.1	67	39	41.3	0	---	0	0	---	67.1	64.5	64.5	30.13	0	0	0	0.001	81.2	37	52.4	79.9	7.13	0.0729	24	1	100	1
9/24/2012	1:27 PM	67.2	67.2	67.2	39	41.4	0	---	0	0	---	67.2	64.6	64.6	30.13	0	0	0	0.002	81.2	37	52.4	79.9	7.13	0.0729	23	1	100	1
9/24/2012	1:28 PM	67.2	67.2	67.1	39	41.4	0	---	0	0	---	67.2	64.6	64.6	30.129	0	0	0	0.002	81.4	38	53.4	80.3	7.25	0.0729	24	1	100	1
9/24/2012	1:29 PM	67.1	67.2	67.1	38	40.6	0	---	0	0	---	67.1	64.4	64.4	30.13	0	0	0	0.001	81.4	36	51.9	80.1	6.89	0.0729	23	1	100	1
9/24/2012	1:30 PM	67	67.1	67	38	40.5	0	---	0	0	---	67	64.3	64.3	30.128	0	0	0	0.001	81.4	35	51.1	80	6.79	0.0729	23	1	100	1
9/24/2012	1:31 PM	66.9	67	66.9	40	41.8	0	---	0	0	---	66.9	64.4	64.4	30.125	0	0	0	0.001	81.6	36	52.1	80.3	6.89	0.0729	24	1	100	1
9/24/2012	1:32 PM	66.8	66.9	66.8	40	41.7	0	---	0	0	---	66.8	64.3	64.3	30.127	0	0	0	0.001	81.6	36	52.1	80.3	6.89	0.0729	23	1	100	1
9/24/2012	1:33 PM	66.6	66.8	66.6	39	40.9	0	---	0	0	---	66.6	63.9	63.9	30.128	0	0	0	0.001	81.4	30	47	79.4	6.05	0.0731	24	1	100	1
9/24/2012	1:34 PM	66.5	66.6	66.5	40	41.4	0	---	0	0	---	66.5	64	64	30.125	0	0	0	0.001	81	32	48.4	79.2	6.33	0.0731	23	1	100	1
9/24/2012	1:35 PM	66.3	66.5	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.126	0	0	0	0.001	81	32	48.4	79.2	6.33	0.0731	23	1	100	1
9/24/2012	1:36 PM	66.1	66.2	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	24	1	100	1
9/24/2012	1:37 PM	66	66.1	66	40	41	0	---	0	0	---	66	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	23	1	100	1
9/24/2012	1:38 PM	65.9	66	65.9	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.126	0	0	0	0.001	81	33	49.2	79.3	6.51	0.073	24	1	100	1
9/24/2012	1:39 PM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.124	0	0	0	0.001	81.2	30	46.8	79.2	6.05	0.0731	23	1	100	1
9/24/2012	1:40 PM	66	66	66	40	41	0	---	0	0	---	66	63.4	63.4	30.122	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	24	1	100	1
9/24/2012	1:41 PM	66.1	66.1	66	40	41.1	0	---	0	0	---	66.1	63.5	63.5	30.124	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	23	1	100	1
9/24/2012	1:42 PM	66.2	66.2	66.1	40	41.2	0	---	0	0	---	66.2	63.6	63.6	30.122	0	0	0	0.001	81.2	31	47.7	79.3	6.15	0.0731	23	1	100	1
9/24/2012	1:43 PM	66.5	66.5	66.3	40	41.4	0	---	0	0	---	66.5	64	64	30.123	0	0	0	0.001	81	30	46.6	79	6.05	0.0731	24	1	100	1
9/24/2012	1:44 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.124	0	0	0	0.001	80.8	30	46.5	78.8	6.05	0.0731	23	1	100	1
9/24/2012	1:45 PM	66.8	66.8	66.7	39

Meteorological Data
Equity IRM

9/24/2012	3:03 PM	67.2	67.2	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.105	0	0	0	0.002	75.6	31	42.8	74.1	6.24	0.0739	23	1	100	1
9/24/2012	3:04 PM	67.3	67.3	67.2	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.105	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:05 PM	67.2	67.3	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.104	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:06 PM	67.1	67.2	67.1	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.104	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:07 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.101	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:08 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:09 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	24	1	100	1
9/24/2012	3:10 PM	67.1	67.1	67.1	35	38.5	0	---	0	0	---	67.1	64	64	30.1	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:11 PM	67.3	67.3	67.2	35	38.7	0	---	0	0	---	67.3	64.2	64.2	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	23	1	100	1
9/24/2012	3:12 PM	67.4	67.4	67.3	35	38.8	0	---	0	0	---	67.4	64.3	64.3	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	24	1	100	1
9/24/2012	3:13 PM	67.5	67.5	67.5	35	38.9	0	---	0	0	---	67.5	64.4	64.4	30.1	0	0	0	0.002	74.9	31	42.2	73.3	6.25	0.074	23	1	100	1
9/24/2012	3:14 PM	67.5	67.5	67.5	35	38.9	0	---	0	0	---	67.5	64.4	64.4	30.1	0	0	0	0.002	74.9	32	43	73.4	6.45	0.074	24	1	100	1
9/24/2012	3:15 PM	67.6	67.6	67.6	35	39	0	---	0	0	---	67.6	64.6	64.6	30.098	0	0	0	0.002	74.9	31	42.2	73.3	6.25	0.074	23	1	100	1
9/24/2012	3:16 PM	67.6	67.6	67.6	35	39	0	---	0	0	---	67.6	64.6	64.6	30.098	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:17 PM	67.6	67.6	67.6	35	39	0	---	0	0	---	67.6	64.6	64.6	30.096	0	0	0	0.002	74.7	31	42	73.1	6.26	0.074	24	1	100	1
9/24/2012	3:18 PM	67.6	67.6	67.6	36	39.7	0	---	0	0	---	67.6	64.7	64.7	30.098	0	0	0	0.002	74.7	31	42	73.1	6.26	0.074	23	1	100	1
9/24/2012	3:19 PM	67.7	67.7	67.6	36	39.8	0	---	0	0	---	67.7	64.8	64.8	30.098	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	24	1	100	1
9/24/2012	3:20 PM	67.8	67.8	67.7	36	39.9	1	N	0.02	6	N	67.8	64.9	64.9	30.099	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:21 PM	67.9	67.9	67.8	36	39.9	4	NNW	0.07	7	NW	67.9	65	65	30.099	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:22 PM	67.9	67.9	67.9	36	39.9	4	NNW	0.07	8	NNW	67.9	65	65	30.098	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	24	1	100	1
9/24/2012	3:23 PM	68	68	67.9	36	40	3	NE	0.05	8	ENE	68	65.1	65.1	30.097	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:24 PM	68	68	68	35	39.3	3	NE	0.05	5	NE	68	65	65	30.097	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:25 PM	68.2	68.2	68.1	36	40.2	2	NE	0.03	6	E	68.2	65.3	65.3	30.098	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:26 PM	68.3	68.3	68.2	36	40.3	3	NE	0.05	6	NW	68.3	65.4	65.4	30.096	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	24	1	100	1
9/24/2012	3:27 PM	68.4	68.4	68.4	36	40.4	3	W	0.05	5	NW	68.4	65.5	65.5	30.096	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:28 PM	68.3	68.4	68.3	35	39.6	5	NNW	0.08	8	NW	68.3	65.3	65.3	30.096	0	0	0	0.002	74.7	32	42.9	73.2	6.46	0.074	23	1	100	1
9/24/2012	3:29 PM	68.3	68.3	68.3	36	40.3	3	NW	0.05	6	NW	68.3	65.4	65.4	30.096	0	0	0	0.002	74.9	32	43	73.4	6.45	0.074	24	1	100	1
9/24/2012	3:30 PM	68.3	68.3	68.3	36	40.3	4	WSW	0.07	8	W	68.3	65.4	65.4	30.094	0	0	0	0.002	74.9	32	43	73.4	6.45	0.074	23	1	100	1
9/24/2012	3:31 PM	68.1	68.3	68.1	35	39.4	3	SW	0.05	5	WSW	68.1	65.1	65.1	30.097	0	0	0	0.002	74.9	33	43.8	73.5	6.55	0.074	24	1	100	1
9/24/2012	3:32 PM	68.1	68.1	68.1	36	40.1	2	N	0.03	5	E	68.1	65.2	65.2	30.094	0	0	0	0.002	74.9	33	43.8	73.5	6.55	0.074	22	1	95.7	1
9/24/2012	3:33 PM	68.1	68.1	68.1	35	39.4	4	E	0.07	8	N	68.1	65.1	65.1	30.095	0	0	0	0.002	74.9	33	43.8	73.5	6.55	0.074	23	1	100	1
9/24/2012	3:34 PM	68.1	68.1	68.1	35	39.4	3	NNW	0.05	5	NNW	68.1	65.1	65.1	30.095	0	0	0	0.002	75	33	43.9	73.6	6.55	0.0739	24	1	100	1
9/24/2012	3:35 PM	68.2	68.2	68.1	36	40.2	1	NNW	0.02	2	NNW	68.2	65.3	65.3	30.094	0	0	0	0.002	75	33	43.9	73.6	6.55	0.0739	23	1	100	1
9/24/2012	3:36 PM	68.3	68.3	68.2	36	40.3	2	NNW	0.03	6	WNW	68.3	65.4	65.4	30.095	0	0	0	0.002	75.2	33	44.1	73.8	6.55	0.0739	24	1	100	1
9/24/2012	3:37 PM	68.3	68.3	68.3	35	39.6	5	WNW	0.08	9	WNW	68.3	65.3	65.3	30.096	0	0	0	0.002	75.2	33	44.1	73.8	6.55	0.0739	23	1	100	1
9/24/2012	3:38 PM	68.2	68.3	68.2	35	39.5	2	NE	0.03	9	NW	68.2	65.2	65.2	30.097	0	0	0	0.002	75.2	33	44.1	73.8	6.55	0.0739	24	1	100	1
9/24/2012	3:39 PM	68.2	68.3	68.2	34	38.7	2	NE	0.03	4	NE	68.2	65.1	65.1	30.095	0	0	0	0.002	75.4	33	44.3	74	6.55	0.0739	22	1	95.7	1
9/24/2012	3:40 PM	68.3	68.3	68.2	36	40.3	2	NE	0.03	4	NNE	68.3	65.4	65.4	30.096	0	0	0	0.002	75.4	33	44.3	74	6.55	0.0739	23	1	100	1
9/24/2012	3:41 PM	68.3	68.3	68.2	36	40.3	3	NNW	0.05	7	N	68.3	65.4	65.4	30.097	0	0	0	0.002	75.6	33	44.5	74.2	6.55	0.0738	22	1	95.7	1
9/24/2012	3:42 PM	68.3	68.3	68.3	35	39.6	2	N	0.03	4	N	68.3	65.3	65.3	30.096	0	0	0	0.002	75.6	33	44.5	74.2	6.55	0.0738	23	1	100	1
9/24/2012	3:43 PM	68.4	68.4	68.3	34	38.9	2	N	0.03	3	N	68.4	65.3	65.3	30.099	0	0	0	0.002	75.6	33	44.5	74.2	6.55	0.0739	23	1	100	1
9/24/2012	3:44 PM	68.5	68.5	68.4	36	40.5	1	N	0.02	3	N	68.5	65.6	65.6	30.097	0	0	0	0.002	75.7	33	44.5	74.4	6.55	0.0738	22	1	95.7	1
9/24/2012	3:45 PM	68.5	68.5	68.5	36	40.5	2	N	0.03	5	N	68.5	65.6	65.6	30.097	0	0	0	0.002	75.7	33	44.5	74.4	6.55	0.0738	23	1	100	1
9/24/2012	3:46 PM	68.6	68.6	68.5	35	39.8	3	NNW	0.05	5	NNW	68.6	65.6	65.6	30.097	0	0	0	0.002	75.7	33	44.5	74.4	6.55	0.0738	23	1	100	1
9/24/2012	3:47 PM	68.7	68.7	68.6	34	39.2	5	N	0.08	10	NNW	68.7	65.6	65.6	30.099	0	0	0	0.003	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:48 PM	68.7	68.7	68.7	33	38.4	7	NNW	0.12	10	NNW	68.7	65.5	65.5	30.098	0	0	0	0.003	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:49 PM	68.6	68.7	68.6	32	37.5	3	NE	0.05	5	N	68.6	65.2	65.2	30.099	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:50 PM	68.5	68.6	68.5	33	38.2	4	NNW	0.07	8	NNW	68.5	65.3	65.3	30.099	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:51 PM	68.3	68.4	68.3	34	38.8	2	NE	0.03	4	NNW	68.3	65.2	65.2	30.099	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:52 PM	68.2	68.3	68.2	34	38.7	3	NW	0.05	7	NW	68.2	65.1	65.1	30.099	0	0	0	0.002	76.1	33	44.9	74.8	6.55	0.0738	22	1	95.7	1
9/24/2012	3:53 PM	68.1	68.2	68.1	35	39.4	4	NNE	0.07	10	NNW	68.1	65.1	65.1	30.098	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	24	1	100	1
9/24/2012	3:54 PM	68	68.1	68	35	39.3	5	NNE	0.08	8	NNW	68	65	65	30.098	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:55 PM	67.8	68	67.8	36	39.9	3	N	0.05	5	N	67.8	64.9	64.9	30.097	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	24	1	100	1
9/24/2012	3:56 PM	67.7	67.8	67.7	37	40.5	2	NNW	0.03	5	NW	67.7	64.9	64.9	30.099	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:57 PM	67.6	67.7	67.6	36	39.7	1	E	0.02	4	NE	67.6	64.7	64.7	30.099	0	0	0	0.002	75.9	33	44.7	74.6	6.55	0.0738	23	1	100	1
9/24/2012	3:58 PM	67.5	67.6	67.5	37	40.3	3	NE	0.05	5	W	67.5	64.7	64.7	30.101	0	0	0	0.002	75.7	33	44.5	74.4	6.55	0.0738	24	1	100	1
9/24/2012	3:59 PM	67.3	67.5	67.3	36	39.4	3	NE	0.05	6	NNE	67.3	64.4	64.4	30.101	0	0	0	0.002	75.7	33	44.5	74.4	6.55	0.0738	23	1	100	1
9/24/2012	4:00 PM	67.3	67.3	67.2	37	40.1	1	NE	0.02	2	NE	67.3	64.5	64.5	30.101	0	0	0	0.002	75.6	33	44.5	74.2	6.55	0.0739	24	1	100	1
9/24/2012	4:01 PM	67.2	67.2	67.2	37	40	3	NE	0.05	6	WSW	67.2	64.4	64.4	30.1	0	0	0	0.002	75.6	33	44.5	74.2	6.55	0.0739	23	1	100	1
9/24/2012	4:02 PM	67.2	67.2	67.2	37	40	3	N	0.05	5	N	67.2	64.4	64.4	30.099	0	0	0	0.002	75.4	33	44.3	74	6.55	0.0739	24	1	100	1
9/24/2012	4:03 PM	67.3	67.3	67.2	37	40.1	5	N	0.08	10	NNW	67.3	64.5	64.5	30.1	0	0	0	0.002	75.4	33	44.3	74	6.55	0.0739	23	1	100	1
9/24/2012	4:04 PM	67.3	67.4	67.3	36	39.4	5	N	0.08	9	N	67.3	64.4	64.4	30.1	0	0	0	0.002	75.2	33	44.1	73.8	6.55	0.0739	23	1	100	1
9/24/2012	4:05 PM	67.3	67.3	67.3	35	38.7	3	E	0.05	7	NNW	67.3	64.2	64.2	30.098	0	0	0	0.002	75.2	34	44.9	73.9	6.75	0.0739	24	1	100	1
9/24/2012	4:06 PM	67.2	67.3	67.2	36	39.3	3	E	0.05	5	NE	67.2	64.2	64.2	30.098	0	0	0	0.002	75	34	44.7	73.7	6.75	0.0739	23	1	100	1
9/24/2012	4:07 PM	67.1	67.2	67.1	36	39.2	5	NNW	0.08	10	NNW	67.1	64.1	64.1	30.097	0	0	0	0.001	75	34	44.7	73.7	6.75	0.0739	24	1	100	1
9/24/2012	4:08 PM	67	67.1	67	36	39.1	4	NNW	0.07	7	NW	67	64	64	30.1	0	0	0	0.001	74.9	34	44.6	73.6	6.75	0.0739	23	1	100	1
9/24/2012	4:09 PM	66.8	66.9	66.8	37	39.7	3	NNW	0.05	6	N	66.8	63.9	63.9	30.097	0	0	0	0.001	74.9	34	44.6	73.6	6.75	0.0739	23	1	100	1
9/24/2012	4:10 PM	66.7	66.8	66.7	37	39.6	5	ENE	0.08	9	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	74.7	34	44.5	73.4	6.76	0.074	24	1	100	1
9/24/2012	4:11 PM	66.7	66.7	66.7	37	39.6	3	E	0.05	5	E	66.7	63.8	63.8	30.099	0	0	0	0.001	74.7	34	44.5	73.4	6.76	0.074	23	1	100	1
9/24/2012	4:12 PM	66.7	66.7	66.7	37	39.6	5	NE	0.08	9	N	66.7	63.8	63.8	30.099	0	0	0	0.001	74.5	34	44.3	73.2	6.76	0.074	24	1	100	1
9/24/2012	4:13 PM	66.7	66.7	66.7	37	39.6	4	NNE	0.07	8	NNE	66.7	63.8	63.8	30.098	0	0	0	0.001	74.5	34	44.3	73.2	6.76	0.074	23	1	100	1
9/24/2012	4:14 PM	66.6	66.6	66.6	37	39.5	5	E	0.08	7	NNW	66.6	63.7	63.7	30.099	0	0	0	0.001	74.3	34	44.1	72.9	6.76	0.074	23	1	100	1
9/24/2012	4:15 PM	66.6	66.6	66.5	38	40.2	5	ENE	0.08	8	ENE	66.6	63.8	63.8	30.097	0	0	0	0.001	74.3	34	44.1	72.9	6.76	0.074	24	1	100	1
9/24/2012	4:16 PM	66.5	66.6	66.5	38	40.1	3	NNE	0.05	6	NE	66.5	63.7	63.7	30.097	0	0	0	0.001	74.2	34	44	72.8	6.77	0.0741	23	1	100	1
9/24/2012	4:17 PM	66.6	66.6	66.5	38	40.2	6	N	0.1	9	NNW	66.6	63.8	63.8	30.1	0	0	0	0.001	74.2	34	44	72.8	6.77	0.0741	24	1	100	1
9/24/2012	4:18 PM	66.6	66.6	66.5	37	39.5	8	NNW	0.13	11	NNW	66	63.7	63.1	30.1	0	0	0	0.001	74	34	43.8	72.6	6.77	0.0741	23	1	100	1
9/24/2012	4:19 PM	66.6	66.6	66.6	36	38.8	7	NNW	0.12	11	NNW	66.6	63.6	63.6	30.1	0	0	0	0.001	73.8	34	43.7	72.3	6.77	0.0741	24	1	100	1
9/24/2012	4:20 PM	66.6	66.6	66.5	37	39.5	4	N	0.07	8	NW	66.6	63.7	63.7	30.103	0	0	0	0.001	73.8	34	43.7	72.3	6.77	0.0741	23	1	100	1
9/24/2012	4:21 PM	66.6	66.6	66.6	37	39.5	6	NNW	0.1	10	N	66.6	63.7	63.7	30.102	0	0	0	0.001	73.6	34	43.5	72	6.78	0.0742	23	1	100	1
9/24/2012	4:22 PM	66.5	66.6	66.5	37	39.4	2	N	0.03	6	NW	66.5	63.6	63.6	30.101	0	0	0	0.001	73.6	34	43.5	72	6.78	0.0742	24	1	100	1
9/24/2012	4:23 PM	66.4	66.4	66.4	37	39.3	3	N	0.05	6	N	66.4	63.5	63.5	30.102	0	0	0	0.001	73.5	34	43.4	71.9	6.78	0.0742	23	1	100	1
9/24/2012	4:24 PM	66.3	66.3	66.3	36	38.5	3	ENE	0.05	6	NNW	66.3	63.3	63.3	30.101	0	0	0	0.001	73.5	34	43.4	71.9	6.78	0.0742	24	1	100	1
9/24/2012	4:25 PM	66.2	66.3	66.2	37	39.1	4	NNW	0.07	8	NNW	66.2	63.3	63.3	30.1	0	0	0	0.001	73.3	34	43.2	71.6	6.78	0.0742	23	1	100	1
9/24/2012	4:26 PM	66.2	66.2	66.2	36	38.4	1	NNE	0.02	4	NNE	66.2	63.2	63.2	30.099	0	0	0	0.001	73.3	34	43.2	71.6	6.78	0.0742	23	1	100	1
9/24/2012	4:27 PM	66.3	66.3	66.2	37	39.2	2	NNE	0.03	6	NNE	66.3	63.4	63.4	30.097	0	0	0	0.001	73.1	35	43.8	71.3	6.99	0.0742	24	1	100	1
9/24/2012	4:28 PM	66.4	66.4	66.3	36	38.6	4	NNW	0.07	7	NNW	66.4	63.4	63.4	30.1	0	0	0	0.001	73	35	43.7	71.2	6.99	0.0742	23	1	100	1
9/24/2012	4:29 PM	66.6	66.6	66.4	36	38.8	2	N	0.03	5	NNW	66.6	63.6	63.6	30.1	0	0	0	0.001	73	35	43.7	71.2	6.99	0.0742	23	1	100	1
9/24/2012	4:30 PM	66.8	66.8	66.6	36	39	0	N	0	1	N	66.8	63.8	63.8	30.099	0	0	0	0.001	73	35	43.7	71.2	6.99	0.0742	23	1	100	1
9/24/2012	4:31 PM	66.9	66.9	66.8	36	39.1	3	NE	0.05	4	NE	66.9	63.9	63.9	30.098	0	0	0	0.001	72.8	35	43.5	70.9	6.99	0.0743	22	1	95.7	1
9/24/2012	4:32 PM	67	67	66.9	36	39.1	3	ENE	0.05	5	E	67	64	64	30.097	0	0	0	0.001	72.8	35	43.5	70.9	6.99	0.0743	23	1	100	1
9/24/2012	4:33 PM	67.1	67.1	67	35	38.5	2	E	0.03	5	E	67.1	64	64	30.097	0	0	0	0.001	72.6	35	43.4	70.6	7	0.0743	22	1	95.7	1
9/24/2012	4:34 PM	67.2	67.2	67.1	36	39.3	3	E	0.05	5	W	67.2	64.2	64.2	30.095	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	24	1	100	1
9/24/2012	4:35 PM	67.3	67.3	67.2	37	40.1	3	WSW	0.05	5	NNE	67.3	64.5	64.5	30.095	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	22	1	95.7	1
9/24/2012	4:36 PM	67.3	67.3	67.3	38	40.8	2	WSW	0.03	4	WSW	67.3	64.6	64.6	30.097	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	23	1	100	1
9/24/2012	4:37 PM	67.3	67.3	67.3	38	40.8	2	W	0.03	7	ENE	67.3	64.6	64.6	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	23	1	100	1
9/24/2012	4:38 PM	67.3	67.3	67.3	36	39.4	3	N	0.05	5	N	67.3	64.4	64.4	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:39 PM	67.3	67.3	67.3	38	40.8	3	NE	0.05	7	NW	67.3	64.6	64.6	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:40 PM	67.4	67.4	67.3	36	39.5	5	N	0.08	10	NNW	67.4	64.5	64.5	30.098	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:41 PM	67.5	67.5	67.4	37	40.3	2	N	0.03	4	N	67.5	64.7	64.7	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:42 PM	67.6	67.6	67.5	37	40.4	2	NNW	0.03	4	NNW	67.6	64.8	64.8	30.095	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	22	1	95.7	1
9/24/2012	4:43 PM	67.7	67.7	67.6	36	39.8	5	WNW	0.08	7	WNW	67.7	64.8	64.8	30.094	0	0	0

Meteorological Data
Equity IRM

9/24/2012	6:03 PM	66.3	66.3	66.3	37	39.2	2	ENE	0.03	4	NNW	66.3	63.4	63.4	30.102	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	24	1	100	1
9/24/2012	6:04 PM	66.2	66.3	66.2	37	39.1	4	NW	0.07	6	N	66.2	63.3	63.3	30.1	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	23	1	100	1
9/24/2012	6:05 PM	66.2	66.3	66.2	37	39.1	4	NNE	0.07	7	NW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	24	1	100	1
9/24/2012	6:06 PM	66.2	66.2	66.2	37	39.1	3	N	0.05	8	NNW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	23	1	100	1
9/24/2012	6:07 PM	66.2	66.2	66.2	36	38.4	2	NE	0.03	5	NNW	66.2	63.2	63.2	30.103	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:08 PM	66.2	66.2	66.2	36	38.4	4	N	0.07	9	NNW	66.2	63.2	63.2	30.101	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0752	24	1	100	1
9/24/2012	6:09 PM	66.2	66.2	66.1	36	38.4	5	ENE	0.08	11	NW	66.2	63.2	63.2	30.102	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:10 PM	66.1	66.1	66.1	36	38.4	3	E	0.05	6	NNW	66.1	63.1	63.1	30.103	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	24	1	100	1
9/24/2012	6:11 PM	66	66.1	66	36	38.3	3	N	0.05	6	N	66	63	63	30.102	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	23	1	100	1
9/24/2012	6:12 PM	66	66	66	36	38.3	1	N	0.02	4	NNW	66	63	63	30.102	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	23	1	100	1
9/24/2012	6:13 PM	65.9	65.9	65.9	37	38.9	3	NW	0.05	6	NNW	65.9	63	63	30.104	0	0	0	0.001	66.1	39	40.4	63.4	7.73	0.0753	23	1	100	1
9/24/2012	6:14 PM	65.8	65.9	65.8	37	38.8	2	NNE	0.03	4	NNE	65.8	62.9	62.9	30.105	0	0	0	0.001	66.1	39	40.4	63.4	7.73	0.0753	23	1	100	1
9/24/2012	6:15 PM	65.8	65.8	65.8	38	39.5	2	NNW	0.03	4	NNW	65.8	63	63	30.106	0	0	0	0.001	65.9	39	40.2	63.2	7.73	0.0753	23	1	100	1
9/24/2012	6:16 PM	65.7	65.8	65.7	39	40.1	2	NNW	0.03	3	NNW	65.7	63	63	30.105	0	0	0	0	65.9	39	40.2	63.2	7.73	0.0753	23	1	100	1
9/24/2012	6:17 PM	65.6	65.7	65.6	37	38.6	1	NW	0.02	4	NW	65.6	62.7	62.7	30.105	0	0	0	0	65.9	39	40.2	63.2	7.73	0.0753	23	1	100	1
9/24/2012	6:18 PM	65.6	65.6	65.6	39	40	0	NW	0	1	NW	65.6	62.9	62.9	30.105	0	0	0	0	65.8	39	40.1	63.1	7.73	0.0754	22	1	95.7	1
9/24/2012	6:19 PM	65.5	65.6	65.5	38	39.2	3	N	0.05	7	NW	65.5	62.7	62.7	30.104	0	0	0	0	65.8	39	40.1	63.1	7.73	0.0754	23	1	100	1
9/24/2012	6:20 PM	65.4	65.5	65.4	39	39.8	3	NW	0.05	5	NW	65.4	62.7	62.7	30.101	0	0	0	0	65.6	39	40	62.9	7.74	0.0754	23	1	100	1
9/24/2012	6:21 PM	65.3	65.4	65.3	38	39	2	NW	0.03	4	NW	65.3	62.5	62.5	30.1	0	0	0	0	65.6	39	40	62.9	7.74	0.0754	23	1	100	1
9/24/2012	6:22 PM	65.2	65.3	65.2	38	38.9	2	WSW	0.03	5	SW	65.2	62.4	62.4	30.1	0	0	0	0	65.6	39	40	62.9	7.74	0.0754	23	1	100	1
9/24/2012	6:23 PM	65.2	65.2	65.2	37	38.3	5	SW	0.08	11	WSW	65.2	62.3	62.3	30.1	0	0	0	0	65.4	39	39.8	62.7	7.74	0.0754	23	1	100	1
9/24/2012	6:24 PM	65.1	65.2	65.1	38	38.8	3	NW	0.05	8	NW	65.1	62.3	62.3	30.101	0	0	0	0	65.4	39	39.8	62.7	7.74	0.0754	21	1	91.3	1
9/24/2012	6:25 PM	65	65.1	65	38	38.8	2	WNW	0.03	5	WSW	65	62.2	62.2	30.103	0	0	0	0	65.3	39	39.7	62.6	7.74	0.0754	24	1	100	1
9/24/2012	6:26 PM	65	65	65	39	39.4	2	WNW	0.03	5	WNW	65	62.3	62.3	30.103	0	0	0	0	65.3	39	39.7	62.6	7.74	0.0754	22	1	95.7	1
9/24/2012	6:27 PM	65	65	65	38	38.8	4	NNW	0.07	8	NNW	65	62.2	62.2	30.102	0	0	0	0	65.3	39	39.7	62.6	7.74	0.0754	24	1	100	1
9/24/2012	6:28 PM	64.9	64.9	64.9	38	38.7	3	NW	0.05	5	NW	64.9	62.1	62.1	30.103	0	0	0	0	65.1	39	39.5	62.4	7.75	0.0755	23	1	100	1
9/24/2012	6:29 PM	64.9	64.9	64.9	37	38	3	NNW	0.05	5	NNW	64.9	61.9	61.9	30.105	0	0	0	0	65.1	39	39.5	62.4	7.75	0.0755	24	1	100	1
9/24/2012	6:30 PM	64.8	64.9	64.8	37	37.9	3	NNW	0.05	5	NNW	64.8	61.8	61.8	30.105	0	0	0	0	64.9	39	39.3	62.2	7.75	0.0755	23	1	100	1
9/24/2012	6:31 PM	64.8	64.8	64.8	37	37.9	2	NNW	0.03	4	NNW	64.8	61.8	61.8	30.104	0	0	0	0	64.9	40	40	62.3	7.85	0.0755	23	1	100	1
9/24/2012	6:32 PM	64.8	64.8	64.8	37	37.9	2	NNW	0.03	4	NNW	64.8	61.8	61.8	30.105	0	0	0	0	64.8	39	39.2	62.1	7.75	0.0755	24	1	100	1
9/24/2012	6:33 PM	64.7	64.7	64.7	37	37.8	2	NNW	0.03	4	N	64.7	61.7	61.7	30.105	0	0	0	0	64.8	40	39.9	62.2	7.85	0.0755	23	1	100	1
9/24/2012	6:34 PM	64.7	64.7	64.7	38	38.5	1	NNW	0.02	3	NNW	64.7	61.8	61.8	30.104	0	0	0	0	64.6	39	39.1	61.8	7.74	0.0756	24	1	100	1
9/24/2012	6:35 PM	64.7	64.7	64.7	37	37.8	2	NNW	0.03	2	NNW	64.7	61.7	61.7	30.106	0	0	0	0	64.6	40	39.7	62	7.85	0.0755	23	1	100	1
9/24/2012	6:36 PM	64.6	64.7	64.6	39	39.1	2	NE	0.03	5	N	64.6	61.8	61.8	30.108	0	0	0	0	64.6	40	39.7	62	7.85	0.0755	23	1	100	1
9/24/2012	6:37 PM	64.6	64.6	64.6	38	38.4	3	N	0.05	5	N	64.6	61.7	61.7	30.108	0	0	0	0	64.5	40	39.6	61.8	7.85	0.0756	24	1	100	1
9/24/2012	6:38 PM	64.5	64.6	64.5	39	39	1	NE	0.02	3	NE	64.5	61.7	61.7	30.109	0	0	0	0	64.5	40	39.6	61.8	7.85	0.0756	23	1	100	1
9/24/2012	6:39 PM	64.5	64.5	64.5	39	39	1	NNE	0.02	3	NNE	64.5	61.7	61.7	30.109	0	0	0	0	64.3	40	39.4	61.6	7.85	0.0756	24	1	100	1
9/24/2012	6:40 PM	64.5	64.5	64.4	38	38.3	2	NE	0.03	3	NE	64.5	61.6	61.6	30.108	0	0	0	0	64.3	40	39.4	61.6	7.85	0.0756	23	1	100	1
9/24/2012	6:41 PM	64.4	64.4	64.4	38	38.2	1	NE	0.02	4	NE	64.4	61.5	61.5	30.109	0	0	0	0	64.1	40	39.3	61.4	7.85	0.0756	24	1	100	1
9/24/2012	6:42 PM	64.4	64.4	64.4	39	38.9	2	NE	0.03	3	NE	64.4	61.6	61.6	30.109	0	0	0	0	64.1	40	39.3	61.4	7.85	0.0756	23	1	100	1
9/24/2012	6:43 PM	64.3	64.4	64.3	38	38.1	2	NE	0.03	3	NE	64.3	61.4	61.4	30.11	0	0	0	0	64	40	39.2	61.3	7.85	0.0757	23	1	100	1
9/24/2012	6:44 PM	64.3	64.3	64.3	39	38.8	1	NE	0.02	2	NE	64.3	61.5	61.5	30.11	0	0	0	0	64	40	39.2	61.3	7.85	0.0757	24	1	100	1
9/24/2012	6:45 PM	64.3	64.3	64.3	40	39.4	3	NE	0.05	6	NNW	64.3	61.6	61.6	30.109	0	0	0	0	63.8	40	39	61.1	7.85	0.0757	23	1	100	1
9/24/2012	6:46 PM	64.3	64.3	64.3	38	38.1	1	N	0.02	4	NNW	64.3	61.4	61.4	30.111	0	0	0	0	63.8	40	39	61.1	7.85	0.0757	24	1	100	1
9/24/2012	6:47 PM	64.2	64.2	64.2	39	38.7	3	WSW	0.05	6	WSW	64.2	61.4	61.4	30.112	0	0	0.001	0	63.6	40	38.8	60.9	7.85	0.0757	23	1	100	1
9/24/2012	6:48 PM	64.2	64.2	64.2	39	38.7	2	WSW	0.03	7	WNW	64.2	61.4	61.4	30.11	0	0	0.001	0	63.6	40	38.8	60.9	7.85	0.0757	23	1	100	1
9/24/2012	6:49 PM	64.2	64.2	64.2	39	38.7	2	NNW	0.03	4	W	64.2	61.4	61.4	30.11	0	0	0.001	0	63.5	40	38.7	60.8	7.85	0.0757	24	1	100	1
9/24/2012	6:50 PM	64.2	64.2	64.2	40	39.4	1	NNW	0.02	2	NNW	64.2	61.5	61.5	30.109	0	0	0.001	0	63.5	40	38.7	60.8	7.85	0.0757	23	1	100	1
9/24/2012	6:51 PM	64.2	64.2	64.2	40	39.4	1	WNW	0.02	2	NNW	64.2	61.5	61.5	30.109	0	0	0.001	0	63.3	40	38.6	60.6	7.85	0.0758	24	1	100	1
9/24/2012	6:52 PM	64.2	64.2	64.2	40	39.4	0	---	0	0	---	64.2	61.5	61.5	30.11	0	0	0.001	0	63.3	40	38.6	60.6	7.85	0.0758	23	1	100	1
9/24/2012	6:53 PM	64.1	64.2	64.1	41	39.9	1	W	0.02	2	W	64.1	61.5	61.5	30.111	0	0	0.001	0	63.2	40	38.5	60.5	7.85	0.0758	23	1	100	1
9/24/2012	6:54 PM	64.1	64.1	64.1	39	38.6	4	WSW	0.07	7	SW	64.1	61.3	61.3	30.11	0	0	0.001	0	63.2	40	38.5	60.5	7.85	0.0758	24	1	100	1
9/24/2012	6:55 PM	64.1	64.1	64.1	41	39.9	1	N	0.02	3	WSW	64.1	61.5	61.5	30.111	0	0	0.001	0	63	40	38.3	60.3	7.85	0.0758	23	1	100	1
9/24/2012	6:56 PM	64.1	64.1	64.1	41	39.9	1	N	0.02	3	N	64.1	61.5	61.5	30.11	0	0	0.001	0	63	40	38.3	60.3	7.85	0.0758	24	1	100	1
9/24/2012	6:57 PM	64	64.1	64	40	39.2	3	N	0.05	6	NNW	64	61.3	61.3	30.11	0	0	0.001	0	62.9	41	38.8	60.3	7.99	0.0758	23	1	100	1
9/24/2012	6:58 PM	64	64	64	40	39.2	3	N	0.05	4	N	64	61.3	61.3	30.109	0	0	0.001	0	62.9	41	38.8	60.3	7.99	0.0758	24	1	100	1
9/24/2012	6:59 PM	64	64	64	40	39.2	2	N	0.03	3	N	64	61.3	61.3	30.109	0	0	0.001	0	62.7	40	38	60	7.85	0.0759	23	1	100	1
9/24/2012	7:00 PM	63.9	64	63.9	39	38.4	3	NE	0.05	5	E	63.9	61.1	61.1	30.108	0	0	0.001	0	62.7	40	38	60	7.85	0.0759	23	1	100	1
9/24/2012	7:01 PM	63.9	63.9	63.9	40	39.1	3	N	0.05	6	N	63.9	61.2	61.2	30.107	0	0	0.001	0	62.5	40	37.8	59.8	7.85	0.0759	23	1	100	1
9/24/2012	7:02 PM	63.9	63.9	63.9	39	38.4	4	N	0.07	5	N	63.9	61.1	61.1	30.107	0	0	0.001	0	62.5	40	37.8	59.8	7.85	0.0759	23	1	100	1
9/24/2012	7:03 PM	63.9	63.9	63.9	39	38.4	1	NNE	0.02	3	NNE	63.9	61.1	61.1	30.107	0	0	0.001	0	62.4	40	37.7	59.7	7.85	0.0759	24	1	100	1
9/24/2012	7:04 PM	63.9	63.9	63.9	39	38.4	2	NNE	0.03	4	NNE	63.9	61.1	61.1	30.105	0	0	0.001	0	62.4	41	38.4	59.8	8	0.0759	23	1	100	1
9/24/2012	7:05 PM	63.8	63.9	63.8	40	39	2	NNE	0.03	3	NNE	63.8	61.1	61.1	30.109	0	0	0.001	0	62.2	41	38.2	59.6	8.01	0.0759	22	1	95.7	1
9/24/2012	7:06 PM	63.8	63.8	63.8	40	39	2	NNE	0.03	4	NNE	63.8	61.1	61.1	30.109	0	0	0.001	0	62.2	41	38.2	59.6	8.01	0.0759	24	1	100	1
9/24/2012	7:07 PM	63.8	63.8	63.8	40	39	2	NNE	0.03	3	NNE	63.8	61.1	61.1	30.111	0	0	0.001	0	62.1	41	38.1	59.5	8.01	0.076	22	1	95.7	1
9/24/2012	7:08 PM	63.8	63.8	63.8	39	38.4	2	NNE	0.03	3	NNE	63.8	61	61	30.11	0	0	0.001	0	62.1	41	38.1	59.5	8.01	0.076	24	1	100	1
9/24/2012	7:09 PM	63.7	63.7	63.7	39	38.3	1	NNE	0.02	3	NNE	63.7	60.9	60.9	30.115	0	0	0.001	0	61.9	41	37.9	59.3	8.01	0.076	22	1	95.7	1
9/24/2012	7:10 PM	63.7	63.7	63.7	39	38.3	2	NNE	0.03	4	NW	63.7	60.9	60.9	30.112	0	0	0.001	0	61.9	41	37.9	59.3	8.01	0.076	23	1	100	1
9/24/2012	7:11 PM	63.6	63.6	63.6	40	38.8	2	N	0.03	3	N	63.6	60.9	60.9	30.115	0	0	0.001	0	61.9	41	37.9	59.3	8.01	0.076	23	1	100	1
9/24/2012	7:12 PM	63.6	63.6	63.6	40	38.8	1	N	0.02	2	N	63.6	60.9	60.9	30.115	0	0	0.001	0	61.8	41	37.8	59.2	8.01	0.076	22	1	95.7	1
9/24/2012	7:13 PM	63.5	63.6	63.5	40	38.7	3	W	0.05	5	NNW	63.5	60.8	60.8	30.114	0	0	0.001	0	61.8	41	37.8	59.2	8.01	0.076	24	1	100	1
9/24/2012	7:14 PM	63.5	63.5	63.5	41	39.4	0	W	0	1	W	63.5	60.9	60.9	30.113	0	0	0.001	0	61.6	41	37.7	59	8.02	0.076	22	1	95.7	1
9/24/2012	7:15 PM	63.5	63.5	63.5	41	39.4	2	W	0.03	3	W	63.5	60.9	60.9	30.114	0	0	0.001	0	61.6	41	37.7	59	8.02	0.076	24	1	100	1
9/24/2012	7:16 PM	63.5	63.5	63.4	41	39.4	2	W	0.03	4	W	63.5	60.9	60.9	30.112	0	0	0.001	0	61.4	41	37.5	58.8	8.02	0.0761	22	1	95.7	1
9/24/2012	7:17 PM	63.4	63.4	63.4	41	39.3	2	W	0.03	4	W	63.4	60.8	60.8	30.113	0	0	0.001	0	61.4	41	37.5	58.8	8.02	0.0761	23	1	100	1
9/24/2012	7:18 PM	63.4	63.4	63.4	41	39.3	1	W	0.02	3	W	63.4	60.8	60.8	30.114	0	0	0.001	0	61.4	41	37.5	58.8	8.02	0.0761	22	1	95.7	1
9/24/2012	7:19 PM	63.3	63.4	63.3	41	39.2	1	W	0.02	3	W	63.3	60.7	60.7	30.114	0	0	0.001	0	61.3	41	37.4	58.7	8.02	0.0761	22	1	95.7	1
9/24/2012	7:20 PM	63.3	63.3	63.3	41	39.2	2	W	0.03	5	W	63.3	60.7	60.7	30.114	0	0	0.001	0	61.3	41	37.4	58.7	8.02	0.0761	24	1	100	1
9/24/2012	7:21 PM	63.3	63.3	63.3	41	39.2	3	WNW	0.05	6	W	63.3	60.7	60.7	30.114	0	0	0.001	0	61.1	41	37.2	58.5	8.03	0.0761	23	1	100	1
9/24/2012	7:22 PM	63.3	63.3	63.3	41	39.2	4	WNW	0.07	6	WNW	63.3	60.7	60.7	30.115	0	0	0.001	0	61.1	41	37.2	58.5	8.03	0.0761	24	1	100	1
9/24/2012	7:23 PM	63.3	63.3	63.3	41	39.2	3	NNW	0.05	5	WNW	63.3	60.7	60.7	30.115	0	0	0.001	0	61.1	41	37.2	58.5	8.03	0.0761	23	1	100	1
9/24/2012	7:24 PM	63.3	63.3	63.3	42	39.8	3	NNW	0.05	5	NNW	63.3	60.8	60.8	30.115	0	0	0.001	0	61	41	37.1	58.4	8.03	0.0761	23	1	100	1
9/24/2012	7:25 PM	63.3	63.3	63.3	41	39.2	3	NW	0.05	4	NW	63.3	60.7	60.7	30.113	0	0	0.001	0	61	41	37.1	58.4	8.03	0.0761	24	1	100	1
9/24/2012	7:26 PM	63.3	63.3	63.3	41	39.2	5	NW	0.08	9	WNW	63.3	60.7	60.7	30.117	0	0	0.001	0	60.8	41	36.9	58.2	8.03	0.0762	23	1	100	1
9/24/2012	7:27 PM	63.4	63.4	63.3	40	38.6	4	N	0.07	6	NNE	63.4	60.7	60.7	30.115	0	0	0.001	0	60.8	41	36.9	58.2	8.03	0.0762	24	1	100	1
9/24/2012	7:28 PM	63.4	63.4	63.4	40	38.6	2	SSW	0.03	4	SSW	63.4	60.7	60.7	30.115	0	0	0.001	0	60.8	41	36.9	58.2	8.03	0.0762	23	1	100	1
9/24/2012	7:29 PM	63.4	63.4	63.4	41	39.3	2	SSW	0.03	6	SW	63.4	60.8	60.8	30.116	0	0	0.001	0	60.7	41	36.8	58.1	8.04	0.0762	23	1	100	1
9/24/2012	7:30 PM	63.4	63.4	63.4	41	39.3	1	SSW	0.02	3	SSW	63.4	60.8	60.8	30.116	0	0	0.001	0	60.7	41	36.8	58.1	8.04	0.0762	24	1	100	1
9/24/2012	7:31 PM	63.5	63.5	63.4	41	39.4	2	SSW	0.03	4	W	63.5	60.9	60.9	30.116	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	23	1	100	1
9/24/2012	7:32 PM	63.4	63.4	63.4	41	39.3	1	W	0.02	5	WNW	63.4	60.8	60.8	30.116	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	24	1	100	1
9/24/2012	7:33 PM	63.4	63.4	63.4	42	39.9	4	WNW	0.07	7	NNW	63.4	60.9	60.9	30.117	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	23	1	100	1
9/24/2012	7:34 PM	63.4	63.4	63.4	40	38.6	2	NNW	0.03	5	NNW	63.4	60.7	60.7	30.117	0	0	0.001	0	60.3	41	36.5	57.7	8.04	0.0763	24	1	100	1
9/24/2012	7:35 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	2	NNW	63.4	60.8	60.8	30.117	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:36 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	3	NNW	63.4	60.8	60.8	30.118	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:37 PM	63.3	63.4	63.3	41	39.2	1	NNW	0.02	2	NNW	63.3	60.7	60.7	30.119	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	24	1	100	1
9/24/2012	7:38 PM	63.3	63.4	63.3	42	39.8	0	NNW	0	2	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	23	1	100	1
9/24/2012	7:39 PM	63.3	63.3	63.3	42	39.8	1	NNW	0.02	3	NNW	63.3	60.8	60.8	30.119	0	0	0.001	0	60.2	42	37	57.7	8.15	0.0763	24	1	100	1
9/24/2012	7:40 PM	63.3	63.3	63.3	42	39.8	0	NNW	0	1	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:41 PM	63.3	63.3	63.3	43	40.4	1	NNW	0.02	2	NNW	63.3	60.9	60.9	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:42 PM	63.2	63.3	63.2	43	40.3	1	NNW	0.02	4	NNW	63.2	60.8	60.8	30.121	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	24	1	100	1
9/24/2012	7:43 PM	63.2	63.2	63.2	41	39.1	3	N	0.05

Meteorological Data
Equity IRM

9/24/2012	9:03 PM	63	63	63	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.131	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:04 PM	63	63	62.9	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.132	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:05 PM	62.9	62.9	62.9	46	41.8	3	SW	0.05	4	SW	62.9	60.7	60.7	30.133	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	22	1	95.7	1
9/24/2012	9:06 PM	62.9	63	62.9	45	41.2	1	SW	0.02	3	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	24	1	100	1
9/24/2012	9:07 PM	62.9	62.9	62.9	46	41.8	1	SW	0.02	7	SW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:08 PM	62.9	62.9	62.9	46	41.8	4	WSW	0.07	7	WSW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:09 PM	62.9	62.9	62.9	45	41.2	2	SW	0.03	4	SSW	62.9	60.6	60.6	30.134	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:10 PM	62.9	62.9	62.9	45	41.2	3	SW	0.05	4	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:11 PM	62.9	62.9	62.9	46	41.8	2	SW	0.03	4	SW	62.9	60.7	60.7	30.134	0	0	0.001	0	57.4	43	35.1	55	8.3	0.0768	24	1	100	1
9/24/2012	9:12 PM	62.8	62.9	62.8	46	41.7	1	SW	0.02	5	WNW	62.8	60.6	60.6	30.134	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	23	1	100	1
9/24/2012	9:13 PM	62.8	62.8	62.8	46	41.7	2	WNW	0.03	5	WNW	62.8	60.6	60.6	30.133	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	24	1	100	1
9/24/2012	9:14 PM	62.8	62.8	62.8	45	41.1	1	SSW	0.02	3	SSW	62.8	60.5	60.5	30.132	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	23	1	100	1
9/24/2012	9:15 PM	62.8	62.8	62.8	45	41.1	3	SSW	0.05	6	WSW	62.8	60.5	60.5	30.134	0	0	0.002	0	57.4	43	35.1	55	8.3	0.0768	23	1	100	1
9/24/2012	9:16 PM	62.8	62.8	62.7	45	41.1	3	WSW	0.05	7	W	62.8	60.5	60.5	30.133	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	24	1	100	1
9/24/2012	9:17 PM	62.7	62.7	62.7	46	41.6	2	SSW	0.03	3	WNW	62.7	60.5	60.5	30.134	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	23	1	100	1
9/24/2012	9:18 PM	62.7	62.7	62.7	45	41	3	W	0.05	6	W	62.7	60.4	60.4	30.135	0	0	0.002	0	57.4	44	35.6	55.1	8.5	0.0768	24	1	100	1
9/24/2012	9:19 PM	62.7	62.7	62.7	45	41	3	WSW	0.05	4	WSW	62.7	60.4	60.4	30.134	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	23	1	100	1
9/24/2012	9:20 PM	62.8	62.8	62.7	45	41.1	3	WSW	0.05	5	SW	62.8	60.5	60.5	30.134	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	24	1	100	1
9/24/2012	9:21 PM	62.8	62.8	62.8	46	41.7	2	NW	0.03	5	NW	62.8	60.6	60.6	30.133	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	22	1	95.7	1
9/24/2012	9:22 PM	62.8	62.8	62.7	45	41.1	3	SW	0.05	5	SW	62.8	60.5	60.5	30.135	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	23	1	100	1
9/24/2012	9:23 PM	62.8	62.8	62.8	45	41.1	4	W	0.07	7	WSW	62.8	60.5	60.5	30.134	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	24	1	100	1
9/24/2012	9:24 PM	62.8	62.8	62.8	45	41.1	1	WSW	0.02	3	WSW	62.8	60.5	60.5	30.133	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	23	1	100	1
9/24/2012	9:25 PM	62.8	62.8	62.8	46	41.7	2	WSW	0.03	4	W	62.8	60.6	60.6	30.135	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	24	1	100	1
9/24/2012	9:26 PM	62.7	62.8	62.7	45	41	3	NW	0.05	4	NW	62.7	60.4	60.4	30.135	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	23	1	100	1
9/24/2012	9:27 PM	62.7	62.8	62.7	45	41	2	WSW	0.03	6	WSW	62.7	60.4	60.4	30.135	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	23	1	100	1
9/24/2012	9:28 PM	62.7	62.7	62.7	46	41.6	1	WSW	0.02	2	WSW	62.7	60.5	60.5	30.135	0	0	0.002	0	57.3	44	35.6	55	8.5	0.0768	24	1	100	1
9/24/2012	9:29 PM	62.7	62.7	62.7	45	41	1	WSW	0.02	2	WSW	62.7	60.4	60.4	30.136	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:30 PM	62.7	62.7	62.7	46	41.6	2	WSW	0.03	3	WSW	62.7	60.5	60.5	30.136	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:31 PM	62.6	62.7	62.6	45	40.9	3	WSW	0.05	5	WNW	62.6	60.3	60.3	30.138	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:32 PM	62.6	62.6	62.6	45	40.9	3	WSW	0.05	6	SW	62.6	60.3	60.3	30.137	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:33 PM	62.6	62.6	62.6	45	40.9	6	WSW	0.1	8	WSW	62.6	60.3	60.3	30.137	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:34 PM	62.6	62.6	62.6	45	40.9	5	WSW	0.08	7	SW	62.6	60.3	60.3	30.137	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	22	1	95.7	1
9/24/2012	9:35 PM	62.7	62.7	62.6	45	41	3	WSW	0.05	8	WSW	62.7	60.4	60.4	30.139	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:36 PM	62.7	62.7	62.6	45	41	4	WSW	0.07	5	WSW	62.7	60.4	60.4	30.139	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:37 PM	62.7	62.7	62.6	45	41	2	WNW	0.03	4	WNW	62.7	60.4	60.4	30.138	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:38 PM	62.7	62.7	62.6	46	41.6	1	WSW	0.02	5	WSW	62.7	60.5	60.5	30.139	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:39 PM	62.6	62.6	62.6	46	41.5	2	WSW	0.03	4	WSW	62.6	60.4	60.4	30.14	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:40 PM	62.6	62.6	62.6	46	41.5	3	SW	0.05	5	SW	62.6	60.4	60.4	30.141	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:41 PM	62.6	62.6	62.6	47	42.1	2	WSW	0.03	5	SW	62.6	60.5	60.5	30.141	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	23	1	100	1
9/24/2012	9:42 PM	62.6	62.6	62.6	46	41.5	3	W	0.05	5	WNW	62.6	60.4	60.4	30.138	0	0	0.002	0	57.1	44	35.4	54.8	8.49	0.0768	24	1	100	1
9/24/2012	9:43 PM	62.6	62.6	62.6	46	41.5	4	NNE	0.07	6	WSW	62.6	60.4	60.4	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:44 PM	62.6	62.6	62.6	47	42.1	3	NNE	0.05	6	NNE	62.6	60.5	60.5	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:45 PM	62.6	62.6	62.6	47	42.1	1	NNE	0.02	2	NNE	62.6	60.5	60.5	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	24	1	100	1
9/24/2012	9:46 PM	62.5	62.6	62.5	47	42	0	NNE	0	1	NNE	62.5	60.4	60.4	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	22	1	95.7	1
9/24/2012	9:47 PM	62.5	62.5	62.5	47	42	2	WSW	0.03	7	WSW	62.5	60.4	60.4	30.139	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	24	1	100	1
9/24/2012	9:48 PM	62.5	62.5	62.5	47	42	3	SW	0.05	5	SW	62.5	60.4	60.4	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	22	1	95.7	1
9/24/2012	9:49 PM	62.4	62.5	62.4	47	41.9	3	WSW	0.05	6	WSW	62.4	60.3	60.3	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	24	1	100	1
9/24/2012	9:50 PM	62.5	62.5	62.5	46	41.4	3	WSW	0.05	5	WSW	62.5	60.3	60.3	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	22	1	95.7	1
9/24/2012	9:51 PM	62.5	62.5	62.5	46	41.4	3	SW	0.05	5	WSW	62.5	60.3	60.3	30.139	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:52 PM	62.5	62.5	62.5	47	42	2	SW	0.03	3	SW	62.5	60.4	60.4	30.139	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:53 PM	62.5	62.5	62.5	47	42	0	---	0	0	---	62.5	60.4	60.4	30.138	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:54 PM	62.5	62.5	62.5	47	42	3	WSW	0.05	8	WSW	62.5	60.4	60.4	30.139	0	0	0.002	0	57	44	35.3	54.7	8.49	0.0768	23	1	100	1
9/24/2012	9:55 PM	62.4	62.5	62.4	47	41.9	2	NW	0.03	4	NW	62.4	60.3	60.3	30.136	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	22	1	95.7	1
9/24/2012	9:56 PM	62.4	62.4	62.4	46	41.3	4	WSW	0.07	5	WSW	62.4	60.2	60.2	30.137	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	9:57 PM	62.4	62.4	62.4	47	41.9	2	W	0.03	6	W	62.4	60.3	60.3	30.137	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	9:58 PM	62.4	62.4	62.4	48	42.4	0	WSW	0	1	WSW	62.4	60.3	60.3	30.138	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	9:59 PM	62.3	62.4	62.3	48	42.3	0	WSW	0	1	WSW	62.3	60.2	60.2	30.136	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	10:00 PM	62.3	62.4	62.3	48	42.3	1	WSW	0.02	3	WSW	62.3	60.2	60.2	30.136	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	10:01 PM	62.3	62.3	62.3	48	42.3	0	WSW	0	2	WSW	62.3	60.2	60.2	30.138	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	24	1	100	1
9/24/2012	10:02 PM	62.2	62.3	62.2	48	42.3	1	WSW	0.02	2	WSW	62.2	60.1	60.1	30.138	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	10:03 PM	62.2	62.2	62.2	48	42.3	3	SW	0.05	4	SW	62.2	60.1	60.1	30.138	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	23	1	100	1
9/24/2012	10:04 PM	62.1	62.1	62.1	48	42.2	2	NNW	0.03	4	NNW	62.1	60	60	30.14	0	0	0.002	0	56.8	44	35.1	54.5	8.49	0.0769	24	1	100	1
9/24/2012	10:05 PM	62.1	62.1	62.1	48	42.2	1	NNW	0.02	2	NNW	62.1	60	60	30.139	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	23	1	100	1
9/24/2012	10:06 PM	62	62.1	62	49	42.6	2	NNW	0.03	5	WSW	62	60	60	30.14	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	24	1	100	1
9/24/2012	10:07 PM	62	62	62	48	42.1	1	WSW	0.02	4	WSW	62	59.9	59.9	30.139	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	23	1	100	1
9/24/2012	10:08 PM	62	62	62	48	42.1	2	WSW	0.03	5	WSW	62	59.9	59.9	30.138	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	23	1	100	1
9/24/2012	10:09 PM	62	62	62	48	42.1	3	WSW	0.05	5	SW	62	59.9	59.9	30.138	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	24	1	100	1
9/24/2012	10:10 PM	62	62	62	49	42.6	1	SW	0.02	2	SW	62	60	60	30.138	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	23	1	100	1
9/24/2012	10:11 PM	62	62	62	49	42.6	2	SW	0.03	3	SW	62	60	60	30.14	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	24	1	100	1
9/24/2012	10:12 PM	62	62	62	49	42.6	1	SW	0.02	3	SW	62	60	60	30.139	0	0	0.002	0	56.7	44	35	54.4	8.48	0.0769	23	1	100	1
9/24/2012	10:13 PM	62	62	62	49	42.6	2	SW	0.03	3	SW	62	60	60	30.14	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	24	1	100	1
9/24/2012	10:14 PM	62	62	62	49	42.6	1	WSW	0.02	2	WSW	62	60	60	30.14	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	22	1	95.7	1
9/24/2012	10:15 PM	61.9	62	61.9	49	42.5	1	WSW	0.02	3	WSW	61.9	59.9	59.9	30.139	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	23	1	100	1
9/24/2012	10:16 PM	61.9	62	61.9	49	42.5	3	W	0.05	4	W	61.9	59.9	59.9	30.139	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	24	1	100	1
9/24/2012	10:17 PM	61.9	62	61.9	49	42.5	3	W	0.05	7	WNW	61.9	59.9	59.9	30.139	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	23	1	100	1
9/24/2012	10:18 PM	61.9	62	61.9	49	42.5	1	WNW	0.02	3	WNW	61.9	59.9	59.9	30.139	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	24	1	100	1
9/24/2012	10:19 PM	61.9	62	61.9	49	42.5	1	WNW	0.02	4	WNW	61.9	59.9	59.9	30.141	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	23	1	100	1
9/24/2012	10:20 PM	61.9	61.9	61.9	49	42.5	2	WNW	0.03	3	WNW	61.9	59.9	59.9	30.139	0	0	0.002	0	56.5	44	34.8	54.2	8.48	0.0769	23	1	100	1
9/24/2012	10:21 PM	61.8	61.9	61.8	49	42.4	2	WNW	0.03	4	WNW	61.8	59.8	59.8	30.139	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	24	1	100	1
9/24/2012	10:22 PM	61.8	61.8	61.8	49	42.4	1	WSW	0.02	3	SW	61.8	59.8	59.8	30.138	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	23	1	100	1
9/24/2012	10:23 PM	61.8	61.8	61.7	50	43	2	WSW	0.03	3	WSW	61.8	59.9	59.9	30.138	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	24	1	100	1
9/24/2012	10:24 PM	61.7	61.8	61.7	49	42.3	0	WSW	0	2	WSW	61.7	59.7	59.7	30.138	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	23	1	100	1
9/24/2012	10:25 PM	61.7	61.7	61.7	49	42.3	1	WSW	0.02	3	WSW	61.7	59.7	59.7	30.138	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	23	1	100	1
9/24/2012	10:26 PM	61.6	61.7	61.6	50	42.8	1	WSW	0.02	2	WSW	61.6	59.7	59.7	30.137	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	24	1	100	1
9/24/2012	10:27 PM	61.6	61.6	61.6	50	42.8	1	WSW	0.02	2	WSW	61.6	59.7	59.7	30.137	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	23	1	100	1
9/24/2012	10:28 PM	61.6	61.6	61.5	50	42.8	1	WSW	0.02	2	WSW	61.6	59.7	59.7	30.136	0	0	0.002	0	56.4	44	34.7	54.1	8.48	0.0769	24	1	100	1
9/24/2012	10:29 PM	61.5	61.6	61.5	50	42.7	1	WSW	0.02	2	WSW	61.5	59.5	59.5	30.136	0	0	0.002	0	56.3	44	34.6	54	8.48	0.077	23	1	100	1
9/24/2012	10:30 PM	61.5	61.5	61.5	50	42.7	1	WSW	0.02	2	WSW	61.5	59.5	59.5	30.136	0	0	0.002	0	56.3	44	34.6	54	8.48	0.077	24	1	100	1
9/24/2012	10:31 PM	61.4	61.5	61.4	50	42.6	2	WSW	0.03	7	WSW	61.4	59.4	59.4	30.138	0	0	0.002	0	56.3	44	34.6	54	8.48	0.077	23	1	100	1
9/24/2012	10:32 PM	61.4	61.4	61.4	49	42.1	3	WSW	0.05	6	WSW	61.4	59.4	59.4	30.137	0	0	0.002	0	56.3	45	35.2	54.1	8.65	0.0769	23	1	100	1
9/24/2012	10:33 PM	61.5	61.5	61.4	49	42.2	2	SSW	0.03	6	SSW	61.5	59.5	59.5	30.138	0	0	0.002	0	56.3	45	35.2	54.1	8.65	0.0769	24	1	100	1
9/24/2012	10:34 PM	61.4	61.5	61.4	51	43.1	0	SW	0	2	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:35 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	3	SW	61.5	59.5	59.5	30.14	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	24	1	100	1
9/24/2012	10:36 PM	61.4	61.5	61.4	50	42.6	2	SW	0.03	4	SW	61.4	59.4	59.4	30.141	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:37 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	4	W	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:38 PM	61.5	61.5	61.5	50	42.7	1	WNW	0.02	3	WNW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:39 PM	61.5	61.5	61.5	50	42.7	2	N	0.03	7	NW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	22	1	95.7	1
9/24/2012	10:40 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	5	SW	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:41 PM	61.5	61.5	61.5	51	43.2	1	SW	0.02	2	SW	61.5	59.6	59.6	30.142	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:42 PM	61.5	61.5	61.4	51	43.2	0	SW	0	2	SW	61.5	59.6	59.6	30.141	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:43 PM	61.4	61.5

Meteorological Data
Equity IRM

9/25/2012	12:03 AM	60.1	60.1	60.1	56	44.3	1	SW	0.02	3	SW	60.1	58.6	58.6	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:04 AM	60	60.1	60	56	44.3	0	SW	0	1	SW	60	58.5	58.5	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:05 AM	60	60	60	55	43.8	0	---	0	0	---	60	58.4	58.4	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:06 AM	59.9	60	59.9	56	44.2	0	SW	0	1	SW	59.9	58.4	58.4	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:07 AM	59.9	59.9	59.9	55	43.7	1	SW	0.02	2	SW	59.9	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:08 AM	59.8	59.9	59.8	55	43.6	0	---	0	0	---	59.8	58.2	58.2	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:09 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:10 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:11 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:12 AM	59.7	59.7	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.149	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	23	1	100	1
9/25/2012	12:13 AM	59.6	59.6	59.6	59	45.2	0	SW	0	1	SW	59.6	58.2	58.2	30.148	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	24	1	100	1
9/25/2012	12:14 AM	59.6	59.6	59.6	57	44.3	1	SW	0.02	2	SW	59.6	58.1	58.1	30.15	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	23	1	100	1
9/25/2012	12:15 AM	59.5	59.5	59.5	55	43.3	0	SW	0	1	SW	59.5	57.9	57.9	30.151	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	23	1	100	1
9/25/2012	12:16 AM	59.5	59.5	59.5	55	43.3	0	SW	0	1	SW	59.5	57.9	57.9	30.15	0	0	0.004	0	54.3	45	33.4	52.3	8.66	0.0773	24	1	100	1
9/25/2012	12:17 AM	59.5	59.5	59.5	55	43.3	1	SW	0.02	2	SW	59.5	57.9	57.9	30.15	0	0	0.004	0	54.2	45	33.3	52.2	8.67	0.0773	23	1	100	1
9/25/2012	12:18 AM	59.5	59.5	59.5	56	43.8	1	SW	0.02	3	SW	59.5	58	58	30.149	0	0	0.004	0	54.2	45	33.3	52.2	8.67	0.0773	24	1	100	1
9/25/2012	12:19 AM	59.6	59.6	59.5	55	43.4	1	SW	0.02	2	SW	59.6	58	58	30.15	0	0	0.004	0	54.2	46	33.9	52.2	8.85	0.0773	23	1	100	1
9/25/2012	12:20 AM	59.6	59.6	59.5	55	43.4	1	SW	0.02	2	SW	59.6	58	58	30.15	0	0	0.004	0	54.2	45	33.3	52.2	8.67	0.0773	24	1	100	1
9/25/2012	12:21 AM	59.6	59.6	59.6	54	42.9	1	SW	0.02	2	SW	59.6	57.9	57.9	30.151	0	0	0.004	0	54	45	33.1	52	8.67	0.0774	23	1	100	1
9/25/2012	12:22 AM	59.7	59.7	59.6	54	43	2	SW	0.03	4	SW	59.7	58	58	30.15	0	0	0.004	0	54	45	33.1	52	8.67	0.0774	23	1	100	1
9/25/2012	12:23 AM	59.8	59.8	59.7	53	42.6	2	SW	0.03	3	SW	59.8	58	58	30.151	0	0	0.004	0	54	45	33.1	52	8.67	0.0774	24	1	100	1
9/25/2012	12:24 AM	59.8	59.8	59.8	53	42.6	2	SW	0.03	4	SW	59.8	58	58	30.152	0	0	0.004	0	53.9	45	33	51.9	8.67	0.0774	23	1	100	1
9/25/2012	12:25 AM	59.9	59.9	59.8	53	42.7	1	SW	0.02	2	SW	59.9	58.1	58.1	30.152	0	0	0.004	0	53.9	45	33	51.9	8.67	0.0774	24	1	100	1
9/25/2012	12:26 AM	59.9	59.9	59.9	53	42.7	1	SW	0.02	3	SW	59.9	58.1	58.1	30.153	0	0	0.004	0	53.9	45	33	51.9	8.67	0.0774	22	1	95.7	1
9/25/2012	12:27 AM	60	60	59.9	53	42.8	1	SW	0.02	2	SW	60	58.2	58.2	30.154	0	0	0.003	0	53.9	45	33	51.9	8.67	0.0774	22	1	95.7	1
9/25/2012	12:28 AM	60	60	60	54	43.3	0	SW	0	2	SW	60	58.3	58.3	30.155	0	0	0.003	0	53.7	45	32.8	51.8	8.68	0.0774	22	1	95.7	1
9/25/2012	12:29 AM	60	60	60	53	42.8	0	SW	0	2	SW	60	58.2	58.2	30.155	0	0	0.003	0	53.7	46	33.4	51.8	8.85	0.0774	23	1	100	1
9/25/2012	12:30 AM	60	60	60	53	42.8	1	SW	0.02	2	SW	60	58.2	58.2	30.155	0	0	0.003	0	53.7	46	33.4	51.8	8.85	0.0774	23	1	100	1
9/25/2012	12:31 AM	60	60	60	53	42.8	0	SW	0	1	SW	60	58.2	58.2	30.158	0	0	0.003	0	53.7	45	32.8	51.8	8.68	0.0774	22	1	95.7	1
9/25/2012	12:32 AM	60	60	60	54	43.3	1	SW	0.02	2	SW	60	58.3	58.3	30.158	0	0	0.003	0	53.6	45	32.8	51.7	8.68	0.0774	24	1	100	1
9/25/2012	12:33 AM	60	60	60	54	43.3	1	SW	0.02	1	SW	60	58.3	58.3	30.158	0	0	0.003	0	53.6	46	33.3	51.7	8.85	0.0774	22	1	95.7	1
9/25/2012	12:34 AM	60	60	60	54	43.3	1	SW	0.02	2	SW	60	58.3	58.3	30.157	0	0	0.003	0	53.6	46	33.3	51.7	8.85	0.0774	23	1	100	1
9/25/2012	12:35 AM	60	60	60	54	43.3	0	SW	0	1	SW	60	58.3	58.3	30.158	0	0	0.003	0	53.6	46	33.3	51.7	8.85	0.0774	23	1	100	1
9/25/2012	12:36 AM	60	60	60	54	43.3	1	SW	0.02	2	SW	60	58.3	58.3	30.157	0	0	0.003	0	53.4	46	33.1	51.6	8.85	0.0775	23	1	100	1
9/25/2012	12:37 AM	60	60	60	54	43.3	1	SW	0.02	3	SW	60	58.3	58.3	30.156	0	0	0.003	0	53.4	46	33.1	51.6	8.85	0.0775	22	1	95.7	1
9/25/2012	12:38 AM	60	60	60	54	43.3	1	SW	0.02	2	SW	60	58.3	58.3	30.157	0	0	0.003	0	53.4	46	33.1	51.6	8.85	0.0775	22	1	95.7	1
9/25/2012	12:39 AM	60	60	60	54	43.3	2	SW	0.03	5	SW	60	58.3	58.3	30.157	0	0	0.003	0	53.4	46	33.1	51.6	8.85	0.0775	23	1	100	1
9/25/2012	12:40 AM	60.1	60.1	60	54	43.4	2	SW	0.03	5	SW	60.1	58.4	58.4	30.157	0	0	0.003	0	53.4	46	33.1	51.6	8.85	0.0775	24	1	100	1
9/25/2012	12:41 AM	60.1	60.1	60.1	53	42.9	3	SW	0.05	5	SW	60.1	58.3	58.3	30.158	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	23	1	100	1
9/25/2012	12:42 AM	60.2	60.2	60.1	54	43.5	2	SW	0.03	4	SW	60.2	58.5	58.5	30.158	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	24	1	100	1
9/25/2012	12:43 AM	60.2	60.2	60.2	53	43	4	SW	0.07	6	SW	60.2	58.4	58.4	30.158	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	23	1	100	1
9/25/2012	12:44 AM	60.3	60.3	60.3	54	43.6	2	SW	0.03	3	SW	60.3	58.6	58.6	30.157	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	23	1	100	1
9/25/2012	12:45 AM	60.4	60.4	60.3	53	43.2	2	SW	0.03	6	SW	60.4	58.6	58.6	30.155	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	24	1	100	1
9/25/2012	12:46 AM	60.4	60.4	60.4	53	43.2	1	SW	0.02	3	SW	60.4	58.6	58.6	30.154	0	0	0.003	0	53.3	46	33	51.5	8.85	0.0775	23	1	100	1
9/25/2012	12:47 AM	60.5	60.5	60.4	53	43.3	1	SW	0.02	3	SW	60.5	58.7	58.7	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	12:48 AM	60.5	60.5	60.5	54	43.8	0	SW	0	2	SW	60.5	58.8	58.8	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:49 AM	60.5	60.5	60.5	53	43.3	0	SW	0	1	SW	60.5	58.7	58.7	30.154	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	12:50 AM	60.5	60.5	60.4	54	43.8	1	SW	0.02	2	SW	60.5	58.8	58.8	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:51 AM	60.4	60.5	60.4	54	43.7	1	SW	0.02	2	SW	60.4	58.7	58.7	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:52 AM	60.4	60.5	60.4	55	44.2	0	SW	0	2	SW	60.4	58.8	58.8	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	12:53 AM	60.4	60.4	60.4	55	44.2	1	SW	0.02	3	SW	60.4	58.8	58.8	30.154	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:54 AM	60.4	60.4	60.4	54	43.7	3	SW	0.05	6	SW	60.4	58.7	58.7	30.154	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	12:55 AM	60.4	60.4	60.4	53	43.2	1	SW	0.02	2	SW	60.4	58.6	58.6	30.155	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:56 AM	60.4	60.4	60.4	54	43.7	0	SW	0	2	SW	60.4	58.7	58.7	30.156	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:57 AM	60.4	60.4	60.4	54	43.7	2	SW	0.03	3	SW	60.4	58.7	58.7	30.156	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	12:58 AM	60.3	60.4	60.3	54	43.6	0	SW	0	1	SW	60.3	58.6	58.6	30.156	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	23	1	100	1
9/25/2012	12:59 AM	60.3	60.3	60.3	53	43.1	2	SW	0.03	3	SW	60.3	58.5	58.5	30.156	0	0	0.003	0	53.1	46	32.8	51.3	8.85	0.0775	24	1	100	1
9/25/2012	1:00 AM	60.3	60.3	60.3	54	43.6	0	SW	0	1	SW	60.3	58.6	58.6	30.156	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	22	1	95.7	1
9/25/2012	1:01 AM	60.3	60.3	60.3	53	43.1	1	SW	0.02	2	SW	60.3	58.5	58.5	30.157	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	24	1	100	1
9/25/2012	1:02 AM	60.3	60.3	60.3	54	43.6	0	SW	0	1	SW	60.3	58.6	58.6	30.157	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:03 AM	60.3	60.3	60.3	55	44.1	1	SW	0.02	2	SW	60.3	58.7	58.7	30.157	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:04 AM	60.3	60.3	60.3	52	42.6	2	SW	0.03	2	SW	60.3	58.5	58.5	30.156	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	24	1	100	1
9/25/2012	1:05 AM	60.3	60.3	60.3	52	42.6	2	SW	0.03	4	SW	60.3	58.5	58.5	30.156	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:06 AM	60.3	60.3	60.3	53	43.1	0	SW	0	1	SW	60.3	58.5	58.5	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	24	1	100	1
9/25/2012	1:07 AM	60.2	60.3	60.2	53	43	0	SW	0	1	SW	60.2	58.4	58.4	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:08 AM	60.2	60.3	60.2	52	42.5	0	SW	0	1	SW	60.2	58.4	58.4	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:09 AM	60.2	60.2	60.2	51	42	1	SW	0.02	4	SW	60.2	58.3	58.3	30.159	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	24	1	100	1
9/25/2012	1:10 AM	60.2	60.2	60.2	51	42	1	SW	0.02	2	SW	60.2	58.3	58.3	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:11 AM	60.2	60.2	60.2	51	42	2	SW	0.03	3	SW	60.2	58.3	58.3	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	24	1	100	1
9/25/2012	1:12 AM	60.2	60.2	60.2	51	42	1	SW	0.02	2	SW	60.2	58.3	58.3	30.158	0	0	0.003	0	53	46	32.8	51.2	8.85	0.0775	23	1	100	1
9/25/2012	1:13 AM	60.2	60.2	60.2	52	42.5	1	SW	0.02	2	SW	60.2	58.4	58.4	30.157	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:14 AM	60.2	60.2	60.2	52	42.5	1	SW	0.02	4	SW	60.2	58.4	58.4	30.158	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:15 AM	60.2	60.2	60.2	51	42	2	SW	0.03	4	SW	60.2	58.3	58.3	30.158	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:16 AM	60.2	60.2	60.2	52	42.5	3	W	0.05	7	W	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:17 AM	60.2	60.2	60.2	50	41.5	4	WSW	0.07	7	W	60.2	58.2	58.2	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:18 AM	60.2	60.2	60.2	50	41.5	4	WSW	0.07	5	WSW	60.2	58.2	58.2	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:19 AM	60.3	60.3	60.2	50	41.6	3	SW	0.05	4	WSW	60.3	58.3	58.3	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:20 AM	60.3	60.3	60.2	50	41.6	4	WSW	0.07	7	W	60.3	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	1:21 AM	60.3	60.3	60.3	50	41.6	3	WSW	0.05	5	WSW	60.3	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:22 AM	60.3	60.3	60.3	50	41.6	1	WSW	0.02	5	WSW	60.3	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:23 AM	60.3	60.3	60.3	51	42.1	1	WSW	0.02	3	WSW	60.3	58.4	58.4	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:24 AM	60.3	60.3	60.3	50	41.6	2	W	0.03	5	W	60.3	58.3	58.3	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:25 AM	60.3	60.3	60.3	51	42.1	2	W	0.03	5	WSW	60.3	58.4	58.4	30.162	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:26 AM	60.3	60.3	60.3	51	42.1	2	WSW	0.03	5	WSW	60.3	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:27 AM	60.2	60.3	60.2	52	42.5	1	WSW	0.02	3	WSW	60.2	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	1:28 AM	60.2	60.2	60.2	51	42	2	WSW	0.03	4	WSW	60.2	58.3	58.3	30.163	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:29 AM	60.2	60.2	60.2	51	42	3	WSW	0.05	7	W	60.2	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	1:30 AM	60.2	60.2	60.2	52	42.5	3	WSW	0.05	6	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:31 AM	60.2	60.2	60.2	51	42	5	WSW	0.08	9	SW	60.2	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:32 AM	60.2	60.2	60.2	51	42	5	WSW	0.08	9	SW	60.2	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	1:33 AM	60.2	60.2	60.2	52	42.5	2	WSW	0.03	4	WSW	60.2	58.4	58.4	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:34 AM	60.2	60.2	60.2	52	42.5	1	WSW	0.02	4	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:35 AM	60.2	60.2	60.2	52	42.5	2	SW	0.03	5	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:36 AM	60.2	60.2	60.2	53	43	3	WSW	0.05	6	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:37 AM	60.2	60.2	60.1	53	43	2	SW	0.03	4	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:38 AM	60.1	60.1	60.1	53	42.9	3	SW	0.05	5	SW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:39 AM	60.1	60.1	60.1	53	42.9	3	WSW	0.05	4	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:40 AM	60.1	60.1	60	53	42.9	4	WSW	0.07	7	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:41 AM	60.1	60.1	60	54	43.4	2	WSW	0.03	4	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:42 AM	60.1	60.1	60	54	43.4	3	WSW	0.05	5	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:43 AM	60	60	60	54	43.3	4	WSW	0.07	6	W	60	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0

Meteorological Data
Equity IRM

9/25/2012	3:03 AM	59.2	59.2	59.2	56	43.5	3	WSW	0.05	4	WSW	59.2	57.7	57.7	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:04 AM	59.3	59.3	59.2	56	43.6	4	WSW	0.07	6	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:05 AM	59.3	59.3	59.2	56	43.6	2	SW	0.03	5	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	22	1	95.7	1
9/25/2012	3:06 AM	59.3	59.3	59.3	56	43.6	2	SW	0.03	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:07 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	3	SW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:08 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:09 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:10 AM	59.3	59.3	59.3	56	43.6	4	SW	0.07	7	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:11 AM	59.3	59.3	59.3	55	43.1	3	S	0.05	5	S	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:12 AM	59.3	59.3	59.3	55	43.1	2	S	0.03	5	SSW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	3:13 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	5	SW	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	22	1	95.7	1
9/25/2012	3:14 AM	59.2	59.3	59.2	55	43	1	SW	0.02	2	SW	59.2	57.6	57.6	30.151	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	3:15 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	4	SW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	3:16 AM	59.3	59.3	59.2	55	43.1	4	SW	0.07	6	SW	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	47	31.9	50	9.02	0.0778	24	1	100	1
9/25/2012	3:17 AM	59.3	59.3	59.2	55	43.1	4	SW	0.07	5	SW	59.3	57.7	57.7	30.152	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:18 AM	59.2	59.3	59.2	55	43	3	SW	0.05	4	SW	59.2	57.6	57.6	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:19 AM	59.3	59.3	59.2	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:20 AM	59.2	59.3	59.2	55	43	3	SW	0.05	5	SW	59.2	57.6	57.6	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	22	1	95.7	1
9/25/2012	3:21 AM	59.2	59.2	59.2	55	43	4	WSW	0.07	5	SW	59.2	57.6	57.6	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:22 AM	59.2	59.2	59.2	55	43	4	SW	0.07	6	SW	59.2	57.6	57.6	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:23 AM	59.2	59.2	59.2	55	43	6	WSW	0.1	7	WSW	58.6	57.6	57	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:24 AM	59.3	59.3	59.2	55	43.1	5	WSW	0.08	7	WSW	59.2	57.7	57.6	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:25 AM	59.3	59.3	59.2	55	43.1	2	SW	0.03	6	SW	59.3	57.7	57.7	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:26 AM	59.3	59.3	59.3	55	43.1	1	SW	0.02	4	SW	59.3	57.7	57.7	30.154	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	24	1	100	1
9/25/2012	3:27 AM	59.3	59.3	59.2	55	43.1	2	SW	0.03	3	SW	59.3	57.7	57.7	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:28 AM	59.2	59.3	59.2	55	43	2	SW	0.03	4	SW	59.2	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:29 AM	59.2	59.2	59.2	55	43	3	SW	0.05	7	WSW	59.2	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:30 AM	59.2	59.2	59.2	56	43.5	3	WSW	0.05	4	WSW	59.2	57.7	57.7	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:31 AM	59.1	59.2	59.1	56	43.4	3	WSW	0.05	4	WSW	59.1	57.6	57.6	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:32 AM	59.1	59.2	59.1	56	43.4	2	WSW	0.03	3	WSW	59.1	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:33 AM	59.1	59.1	59.1	55	42.9	2	WSW	0.03	2	WSW	59.1	57.5	57.5	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:34 AM	59.1	59.1	59.1	56	43.4	4	WSW	0.07	7	WSW	59.1	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:35 AM	59.1	59.1	59.1	56	43.4	2	WSW	0.03	3	WSW	59.1	57.6	57.6	30.152	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	3:36 AM	59.1	59.1	59.1	56	43.4	2	SSW	0.03	4	SW	59.1	57.6	57.6	30.152	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	24	1	100	1
9/25/2012	3:37 AM	59	59.1	59	56	43.3	2	SW	0.03	4	SW	59	57.5	57.5	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:38 AM	59	59.1	59	56	43.3	2	SW	0.03	4	SW	59	57.5	57.5	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:39 AM	59	59	59	57	43.8	2	SW	0.03	3	SW	59	57.5	57.5	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:40 AM	59	59	59	57	43.8	2	SW	0.03	4	SW	59	57.5	57.5	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:41 AM	58.9	59	58.9	57	43.7	2	SW	0.03	4	SW	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:42 AM	58.9	58.9	58.9	56	43.2	1	SW	0.02	3	SW	58.9	57.4	57.4	30.15	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:43 AM	58.9	58.9	58.9	56	43.2	2	SW	0.03	4	SW	58.9	57.4	57.4	30.15	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:44 AM	58.9	58.9	58.9	56	43.2	2	SW	0.03	4	SW	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:45 AM	58.9	58.9	58.9	56	43.2	2	SW	0.03	4	SW	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:46 AM	58.9	58.9	58.9	57	43.7	3	SW	0.05	6	S	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	3:47 AM	58.9	58.9	58.9	57	43.7	3	SSW	0.05	4	S	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:48 AM	58.9	58.9	58.9	57	43.7	2	SSW	0.03	4	SSW	58.9	57.4	57.4	30.15	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:49 AM	58.9	58.9	58.9	57	43.7	1	SSW	0.02	3	SSW	58.9	57.4	57.4	30.152	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:50 AM	58.9	58.9	58.9	57	43.7	1	SSW	0.02	2	SSW	58.9	57.4	57.4	30.15	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:51 AM	58.9	58.9	58.9	57	43.7	1	SSW	0.02	2	SSW	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:52 AM	58.9	58.9	58.9	57	43.7	1	SSW	0.02	2	SSW	58.9	57.4	57.4	30.151	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	24	1	100	1
9/25/2012	3:53 AM	58.8	58.9	58.8	57	43.6	1	SSW	0.02	2	SSW	58.8	57.3	57.3	30.152	0	0	0.004	0	51.8	47	32.2	50.2	9.01	0.0777	23	1	100	1
9/25/2012	3:54 AM	58.8	58.8	58.8	56	43.1	1	SSW	0.02	2	SSW	58.8	57.3	57.3	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	3:55 AM	58.8	58.8	58.8	57	43.6	3	WSW	0.05	4	WSW	58.8	57.3	57.3	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	24	1	100	1
9/25/2012	3:56 AM	58.7	58.8	58.7	57	43.5	1	WSW	0.02	4	WSW	58.7	57.2	57.2	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	3:57 AM	58.7	58.7	58.7	57	43.5	2	WSW	0.03	3	WSW	58.7	57.2	57.2	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:58 AM	58.7	58.7	58.7	57	43.5	2	WSW	0.03	4	WSW	58.7	57.2	57.2	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:59 AM	58.7	58.8	58.7	57	43.5	2	WSW	0.03	3	WSW	58.7	57.2	57.2	30.151	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	4:00 AM	58.7	58.7	58.7	57	43.5	1	WSW	0.02	2	WSW	58.7	57.2	57.2	30.151	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	24	1	100	1
9/25/2012	4:01 AM	58.7	58.7	58.7	57	43.5	2	WSW	0.03	3	WSW	58.7	57.2	57.2	30.15	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	4:02 AM	58.7	58.7	58.7	58	44	1	WSW	0.02	3	WSW	58.7	57.3	57.3	30.15	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	24	1	100	1
9/25/2012	4:03 AM	58.7	58.7	58.7	59	44.4	0	WSW	0	1	WSW	58.7	57.3	57.3	30.15	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	4:04 AM	58.7	58.7	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.151	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	24	1	100	1
9/25/2012	4:05 AM	58.7	58.7	58.7	60	44.8	0	---	0	0	---	58.7	57.4	57.4	30.15	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	4:06 AM	58.6	58.6	58.6	61	45.2	0	---	0	0	---	58.6	57.4	57.4	30.151	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	22	1	95.7	1
9/25/2012	4:07 AM	58.5	58.6	58.5	61	45.1	0	WSW	0	1	WSW	58.5	57.3	57.3	30.151	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	24	1	100	1
9/25/2012	4:08 AM	58.5	58.5	58.5	63	45.9	0	WSW	0	2	WSW	58.5	57.4	57.4	30.15	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	4:09 AM	58.4	58.4	58.4	61	45	0	WSW	0	1	WSW	58.4	57.2	57.2	30.151	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	24	1	100	1
9/25/2012	4:10 AM	58.3	58.4	58.3	62	45.3	0	---	0	0	---	58.3	57.1	57.1	30.153	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	4:11 AM	58.2	58.3	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.152	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	4:12 AM	58.1	58.2	58.1	63	45.6	0	---	0	0	---	58.1	57	57	30.152	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	24	1	100	1
9/25/2012	4:13 AM	58.1	58.1	58.1	63	45.6	0	---	0	0	---	58.1	57	57	30.152	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	23	1	100	1
9/25/2012	4:14 AM	58	58.1	58	61	44.6	2	WSW	0.03	4	WSW	58	56.8	56.8	30.153	0	0	0.005	0	51.5	47	31.9	50	9.02	0.0778	24	1	100	1
9/25/2012	4:15 AM	58	58	58	62	45	2	WSW	0.03	3	WSW	58	56.8	56.8	30.155	0	0	0.005	0	51.4	47	31.8	49.9	9.02	0.0778	23	1	100	1
9/25/2012	4:16 AM	58	58	57.9	61	44.6	1	WSW	0.02	2	WSW	58	56.8	56.8	30.154	0	0	0.005	0	51.4	47	31.8	49.9	9.02	0.0778	24	1	100	1
9/25/2012	4:17 AM	58	58	58	61	44.6	0	WSW	0	1	WSW	58	56.8	56.8	30.155	0	0	0.005	0	51.4	47	31.8	49.9	9.02	0.0778	23	1	100	1
9/25/2012	4:18 AM	58	58	58	63	45.5	0	---	0	0	---	58	56.9	56.9	30.155	0	0	0.005	0	51.4	47	31.8	49.9	9.02	0.0778	23	1	100	1
9/25/2012	4:19 AM	57.9	58	57.9	62	45	0	WSW	0	1	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	51.4	47	31.8	49.9	9.02	0.0778	24	1	100	1
9/25/2012	4:20 AM	57.9	57.9	57.9	61	44.5	0	WSW	0	1	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0778	23	1	100	1
9/25/2012	4:21 AM	57.9	57.9	57.9	62	45	1	WSW	0.02	2	WSW	57.9	56.7	56.7	30.157	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0778	24	1	100	1
9/25/2012	4:22 AM	57.9	57.9	57.9	61	44.5	0	WSW	0	1	WSW	57.9	56.7	56.7	30.157	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0778	22	1	95.7	1
9/25/2012	4:23 AM	57.9	57.9	57.9	61	44.5	1	WSW	0.02	2	WSW	57.9	56.7	56.7	30.16	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0778	23	1	100	1
9/25/2012	4:24 AM	57.9	57.9	57.9	61	44.5	0	---	0	0	---	57.9	56.7	56.7	30.158	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0778	24	1	100	1
9/25/2012	4:25 AM	57.9	57.9	57.9	61	44.5	1	WSW	0.02	3	WSW	57.9	56.7	56.7	30.159	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	4:26 AM	57.8	57.9	57.8	62	44.9	0	WSW	0	1	WSW	57.8	56.6	56.6	30.158	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	4:27 AM	57.8	57.9	57.8	61	44.4	1	WSW	0.02	1	WSW	57.8	56.6	56.6	30.158	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	4:28 AM	57.8	57.9	57.8	61	44.4	1	WSW	0.02	2	WSW	57.8	56.6	56.6	30.157	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0778	23	1	100	1
9/25/2012	4:29 AM	57.9	57.9	57.8	61	44.5	1	WSW	0.02	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0778	24	1	100	1
9/25/2012	4:30 AM	57.8	57.8	57.8	61	44.4	1	WSW	0.02	1	WSW	57.8	56.6	56.6	30.158	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:31 AM	57.8	57.8	57.8	61	44.4	1	WSW	0.02	3	WSW	57.8	56.6	56.6	30.158	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	4:32 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.159	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:33 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	3	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	4:34 AM	57.8	57.8	57.8	62	44.9	1	WSW	0.02	2	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:35 AM	57.8	57.8	57.8	62	44.9	1	WSW	0.02	3	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:36 AM	57.8	57.8	57.8	62	44.9	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.154	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:37 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	3	WSW	57.8	56.6	56.6	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	4:38 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:39 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:40 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:41 AM	57.9	57.9	57.9	61	44.5	3	WSW	0.05	6	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:42 AM	57.9	57.9	57.9	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.156

Meteorological Data
Equity IRM

9/25/2012	6:03 AM	58.3	58.3	58.2	55	42.2	4	SW	0.07	6	SW	58.3	56.7	56.7	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:04 AM	58.3	58.3	58.3	55	42.2	3	SW	0.05	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:05 AM	58.3	58.3	58.3	55	42.2	2	SW	0.03	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:06 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	7	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:07 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	4	SW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:08 AM	58.3	58.4	58.3	56	42.7	5	WSW	0.08	6	SW	58	56.8	56.5	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:09 AM	58.3	58.3	58.3	56	42.7	3	WSW	0.05	6	WNW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:10 AM	58.3	58.4	58.3	56	42.7	3	W	0.05	5	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:11 AM	58.3	58.4	58.3	56	42.7	3	WSW	0.05	5	WSW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:12 AM	58.3	58.4	58.3	56	42.7	2	WSW	0.03	3	WSW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:13 AM	58.3	58.3	58.3	57	43.1	2	WSW	0.03	4	WSW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:14 AM	58.3	58.3	58.3	56	42.7	5	SW	0.08	9	WSW	58	56.8	56.5	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:15 AM	58.3	58.3	58.3	57	43.1	2	WSW	0.03	5	SW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:16 AM	58.3	58.3	58.3	57	43.1	4	SSW	0.07	6	SW	58.3	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:17 AM	58.3	58.3	58.3	57	43.1	3	SW	0.05	6	SW	58.3	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:18 AM	58.3	58.3	58.3	57	43.1	4	SW	0.07	6	W	58.3	56.8	56.8	30.173	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:19 AM	58.3	58.3	58.3	57	43.1	3	SW	0.05	5	SW	58.3	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:20 AM	58.3	58.3	58.3	57	43.1	3	SW	0.05	5	SW	58.3	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:21 AM	58.3	58.3	58.3	57	43.1	4	WSW	0.07	8	WSW	58.3	56.8	56.8	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:22 AM	58.3	58.3	58.3	57	43.1	3	WNW	0.05	5	SW	58.3	56.8	56.8	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:23 AM	58.3	58.3	58.3	57	43.1	4	WSW	0.07	7	WNW	58.3	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:24 AM	58.3	58.3	58.3	57	43.1	3	WSW	0.05	4	WSW	58.3	56.8	56.8	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:25 AM	58.3	58.3	58.3	57	43.1	2	WSW	0.03	3	WSW	58.3	56.8	56.8	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:26 AM	58.3	58.3	58.3	58	43.6	3	WSW	0.05	5	WSW	58.3	56.9	56.9	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:27 AM	58.3	58.3	58.3	58	43.6	3	W	0.05	5	W	58.3	56.9	56.9	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:28 AM	58.2	58.3	58.2	58	43.5	1	W	0.02	2	W	58.2	56.8	56.8	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	22	1	95.7	1
9/25/2012	6:29 AM	58.2	58.3	58.2	58	43.5	5	WSW	0.08	8	W	57.8	56.8	56.4	30.175	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:30 AM	58.2	58.2	58.2	58	43.5	4	WSW	0.07	6	WSW	58.2	56.8	56.8	30.174	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	22	1	95.7	1
9/25/2012	6:31 AM	58.2	58.2	58.2	58	43.5	3	WSW	0.05	8	SW	58.2	56.8	56.8	30.173	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	6:32 AM	58.2	58.2	58.2	59	43.9	2	WSW	0.03	3	WSW	58.2	56.8	56.8	30.175	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	6:33 AM	58.2	58.2	58.2	59	43.9	2	WSW	0.03	6	WNW	58.2	56.8	56.8	30.173	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	6:34 AM	58.2	58.2	58.2	59	43.9	3	W	0.05	5	W	58.2	56.8	56.8	30.173	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:35 AM	58.2	58.2	58.2	59	43.9	2	W	0.03	4	W	58.2	56.8	56.8	30.174	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	6:36 AM	58.2	58.2	58.1	59	43.9	1	W	0.02	2	W	58.2	56.8	56.8	30.175	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:37 AM	58.1	58.2	58.1	59	43.8	1	W	0.02	3	W	58.1	56.7	56.7	30.175	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	6:38 AM	58.1	58.1	58.1	60	44.3	1	W	0.02	2	W	58.1	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:39 AM	58.1	58.1	58.1	59	43.8	3	W	0.05	5	W	58.1	56.7	56.7	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:40 AM	58.1	58.1	58.1	59	43.8	1	WSW	0.02	4	WSW	58.1	56.7	56.7	30.175	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:41 AM	58.1	58.1	58.1	59	43.8	2	WSW	0.03	3	WSW	58.1	56.7	56.7	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:42 AM	58	58.1	58	59	43.7	2	WSW	0.03	3	WSW	58	56.6	56.6	30.175	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:43 AM	58	58.1	58	59	43.7	2	SW	0.03	4	SW	58	56.6	56.6	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:44 AM	58	58.1	58	60	44.2	1	SW	0.02	2	SW	58	56.7	56.7	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:45 AM	58	58.1	58	60	44.2	2	SW	0.03	4	SW	58	56.7	56.7	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:46 AM	58	58.1	58	61	44.6	1	SW	0.02	3	SW	58	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:47 AM	58	58.1	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:48 AM	58.1	58.1	58	60	44.3	2	WSW	0.03	7	WSW	58.1	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:49 AM	58.1	58.1	58.1	60	44.3	1	WSW	0.02	2	WSW	58.1	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:50 AM	58.1	58.1	58.1	60	44.3	1	WSW	0.02	3	WSW	58.1	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:51 AM	58.1	58.1	58.1	60	44.3	3	SW	0.05	4	SW	58.1	56.8	56.8	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:52 AM	58.2	58.2	58.1	60	44.4	2	SW	0.03	5	SW	58.2	56.9	56.9	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:53 AM	58.2	58.2	58.2	60	44.4	1	WSW	0.02	5	WSW	58.2	56.9	56.9	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:54 AM	58.2	58.2	58.2	60	44.4	2	WSW	0.03	3	WSW	58.2	56.9	56.9	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:55 AM	58.2	58.2	58.2	60	44.4	3	WSW	0.05	6	WSW	58.2	56.9	56.9	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:56 AM	58.2	58.2	58.2	60	44.4	1	WSW	0.02	3	WSW	58.2	56.9	56.9	30.178	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:57 AM	58.2	58.2	58.2	60	44.4	1	WSW	0.02	2	WSW	58.2	56.9	56.9	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	6:58 AM	58.2	58.2	58.2	60	44.4	0	WSW	0	1	WSW	58.2	56.9	56.9	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	6:59 AM	58.2	58.2	58.2	60	44.4	1	WSW	0.02	4	WSW	58.2	56.9	56.9	30.178	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	7:00 AM	58.3	58.3	58.2	60	44.5	2	WSW	0.03	4	WSW	58.3	57	57	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:01 AM	58.3	58.3	58.3	61	44.9	1	SW	0.02	3	WSW	58.3	57.1	57.1	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	7:02 AM	58.3	58.3	58.3	60	44.5	2	WSW	0.03	4	SW	58.3	57	57	30.176	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	22	1	95.7	1
9/25/2012	7:03 AM	58.3	58.3	58.3	60	44.5	1	WSW	0.02	2	WSW	58.3	57	57	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	7:04 AM	58.3	58.3	58.3	61	44.9	1	WSW	0.02	3	WSW	58.3	57.1	57.1	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:05 AM	58.3	58.3	58.3	61	44.9	1	WSW	0.02	5	WSW	58.3	57.1	57.1	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:06 AM	58.3	58.3	58.3	61	44.9	2	W	0.03	6	W	58.3	57.1	57.1	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:07 AM	58.3	58.4	58.3	61	44.9	2	W	0.03	3	W	58.3	57.1	57.1	30.177	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:08 AM	58.4	58.4	58.3	61	45	3	W	0.05	7	WSW	58.4	57.2	57.2	30.178	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	7:09 AM	58.4	58.4	58.4	61	45	3	WSW	0.05	6	WSW	58.4	57.2	57.2	30.179	0	0	0.005	0	51.1	47	31.6	49.7	9.03	0.0779	23	1	100	1
9/25/2012	7:10 AM	58.4	58.4	58.4	61	45	3	WSW	0.05	7	WSW	58.4	57.2	57.2	30.179	0	0	0.005	0	51.2	47	31.6	49.7	9.03	0.0779	24	1	100	1
9/25/2012	7:11 AM	58.5	58.5	58.5	61	45.1	2	WSW	0.03	3	WSW	58.5	57.3	57.3	30.181	0	0	0.005	0	51.2	54	35.1	50	10.07	0.0778	23	1	100	1
9/25/2012	7:12 AM	58.6	58.6	58.5	61	45.2	3	SW	0.05	8	WSW	58.6	57.4	57.4	30.183	0	0	0.004	0	51.4	54	35.3	50.2	10.08	0.0778	24	1	100	1
9/25/2012	7:13 AM	58.7	58.7	58.6	61	45.3	2	WSW	0.03	5	WSW	58.7	57.5	57.5	30.182	0	0	0.004	0	51.5	56	36.3	50.4	10.38	0.0778	23	1	100	1
9/25/2012	7:14 AM	58.7	58.7	58.7	61	45.3	2	WSW	0.03	4	WSW	58.7	57.5	57.5	30.181	0	0	0.004	0	51.7	57	36.9	50.6	10.58	0.0777	23	1	100	1
9/25/2012	7:15 AM	58.8	58.8	58.7	60	44.9	1	S	0.02	4	SSW	58.8	57.5	57.5	30.18	0	0	0.004	0	51.8	58	37.5	50.7	10.75	0.0777	24	1	100	1
9/25/2012	7:16 AM	58.9	58.9	58.8	61	45.5	1	SW	0.02	3	SW	58.9	57.7	57.7	30.18	0	0	0.004	0	52	59	38.1	51	10.95	0.0776	23	1	100	1
9/25/2012	7:17 AM	58.9	58.9	58.9	61	45.5	1	S	0.02	4	S	58.9	57.7	57.7	30.18	0	0	0.004	0	52.3	58	38	51.2	10.75	0.0776	24	1	100	1
9/25/2012	7:18 AM	59	59	59	60	45.1	2	SSW	0.03	3	SSW	59	57.7	57.7	30.18	0	0	0.004	0	52.4	58	38	51.3	10.75	0.0776	23	1	100	1
9/25/2012	7:19 AM	59.1	59.1	59	61	45.7	2	SSW	0.03	3	SSW	59.1	57.9	57.9	30.181	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0775	23	1	100	1
9/25/2012	7:20 AM	59.1	59.1	59.1	61	45.7	1	SSW	0.02	2	SSW	59.1	57.9	57.9	30.181	0	0	0.004	0	52.8	59	38.9	51.7	10.95	0.0775	23	1	100	1
9/25/2012	7:21 AM	59.3	59.3	59.2	60	45.4	4	SW	0.07	6	W	59.3	58	58	30.182	0	0	0.004	0	53	59	39	51.8	10.95	0.0775	23	1	100	1
9/25/2012	7:22 AM	59.3	59.3	59.3	60	45.4	5	WSW	0.08	8	WSW	59.2	58	57.9	30.182	0	0	0.004	0	53.3	59	39.3	52.1	10.95	0.0774	23	1	100	1
9/25/2012	7:23 AM	59.4	59.4	59.3	60	45.5	4	S	0.07	8	WSW	59.4	58.1	58.1	30.185	0	0	0.004	0	53.6	59	39.6	52.4	10.95	0.0774	23	1	100	1
9/25/2012	7:24 AM	59.5	59.5	59.4	60	45.6	3	WSW	0.05	9	WNW	59.5	58.2	58.2	30.185	0	0	0.004	0	53.9	63	41.6	52.8	11.75	0.0773	23	1	100	1
9/25/2012	7:25 AM	59.5	59.5	59.5	60	45.6	3	WSW	0.05	6	W	59.5	58.2	58.2	30.184	0	0	0.004	0	54.2	61	41	53	11.27	0.0772	22	1	95.7	1
9/25/2012	7:26 AM	59.5	59.5	59.5	60	45.6	3	SW	0.05	6	SW	59.5	58.2	58.2	30.188	0	0	0.004	0	54.5	61	41.3	53.3	11.26	0.0772	23	1	100	1
9/25/2012	7:27 AM	59.6	59.6	59.5	60	45.7	3	WSW	0.05	5	WSW	59.6	58.3	58.3	30.185	0	0	0.004	0	54.6	60	41	53.3	11.06	0.0772	23	1	100	1
9/25/2012	7:28 AM	59.8	59.8	59.7	60	45.9	4	WSW	0.07	6	W	59.8	58.5	58.5	30.184	0	0	0.004	0	54.9	59	40.8	53.6	10.95	0.0771	23	1	100	1
9/25/2012	7:29 AM	59.9	59.9	59.8	60	46	3	SSE	0.05	6	SSE	59.9	58.6	58.6	30.185	0	0	0.004	0	55.4	59	41.3	54.1	10.95	0.0771	23	1	100	1
9/25/2012	7:30 AM	59.9	59.9	59.9	60	46	3	SSE	0.05	7	S	59.9	58.6	58.6	30.184	0	0	0.004	0	55.7	58	41.1	54.3	10.75	0.077	23	1	100	1
9/25/2012	7:31 AM	59.9	59.9	59.9	59	45.5	4	WSW	0.07	9	W	59.9	58.5	58.5	30.189	0	0	0.004	0	56	58	41.4	54.6	10.75	0.077	22	1	95.7	1
9/25/2012	7:32 AM	59.9	59.9	59.9	59	45.5	6	WSW	0.1	9	W	59.5	58.5	58.1	30.186	0	0	0.004	0	56.3	58	41.7	54.9	10.75	0.0769	23	1	100	1
9/25/2012	7:33 AM	59.9	59.9	59.9	59	45.5	5	WSW	0.08	9	W	59.9	58.5	58.5	30.186	0	0	0.004	0	56.5	58	41.9	55.1	10.75	0.0769	23	1	100	1
9/25/2012	7:34 AM	59.8	59.9	59.8	60	45.9	6	WSW	0.1	9	WSW	59.4	58.5	58.1	30.187	0	0	0.004	0	56.8	58	42.2	55.4	10.75	0.0768	24	1	100	1
9/25/2012	7:35 AM	59.8	59.8	59.8	60	45.9	3	WSW	0.05	6	SW	59.8	58.5	58.5	30.187	0	0	0.004	0	57.1	57	42	55.6	10.61	0.0768	23	1	100	1
9/25/2012	7:36 AM	60.2	60.2	59.9	60	46.3	5	WSW	0.08	9	W	60.2	58.9	58.9	30.186	0	0	0.003	0	57.4	57	42.3	55.9	10.6	0.0767	24	1	100	1
9/25/2012	7:37 AM	60.4	60.4	60.2	60	46.4	3	WSW	0.05	8	W	60.4	59.1	59.1	30.188	0	0	0.003	0	57.7	58	43	56.3	10.75	0.0767	23	1	100	1
9/25/2012	7:38 AM	60.5	60.5	60.5	59	46.1	4	S	0.07	6	WSW	60.5	59.2	59.2	30.188	0	0	0.003	0	58.1	57	42.9	56.6	10.59	0.0766	23	1	100	1
9/25/2012	7:39 AM	60.5	60.5	60.5	59	46.1	1	SSW	0.02	3	SSW	60.5	59.2	59.2	30.186	0	0	0.003	0	58.4	57	43.2	56.9	10.58	0.0766	24	1	100	1
9/25/2012	7:40 AM	60.5	60.6	60.5	59	46.1	5	WSW	0.08	12	W	60.5	59.2	59.2	30.188	0	0	0.003	0	58.7	57	43.5	57.2	10.58	0.0765	23	1	100	1
9/25/2012	7:41 AM	60.4	60.5	60.4	59	46	6	WSW	0.1	12	W	60.1	59.1	58.8	30.186	0	0	0.003	0	58.8	56	43.1	57.3	10.45	0.0765	24	1	100	1
9/25/2012	7:42 AM	60.3	60.4	60.3	59	45.9	6	SW	0.1	10	WSW	60	59	58.7

Meteorological Data
Equity IRM

9/25/2012	9:03 AM	62	62	61.9	65	50.1	3	NW	0.03	4	NNW	62	61.3	61.3	30.198	0	0	0.002	0	72.4	46	50.4	71.3	8.6	0.0744	24	1	100	1
9/25/2012	9:04 AM	62.1	62.1	62	65	50.2	2	NNW	0.03	5	N	62.1	61.4	61.4	30.2	0	0	0.002	0	72.6	46	50.6	71.6	8.6	0.0743	23	1	100	1
9/25/2012	9:05 AM	62.1	62.2	62.1	65	50.2	1	NNW	0.02	3	NNW	62.1	61.4	61.4	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	22	1	95.7	1
9/25/2012	9:06 AM	62.2	62.2	62.1	65	50.3	3	NNW	0.05	4	W	62.2	61.5	61.5	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	24	1	100	1
9/25/2012	9:07 AM	62.3	62.3	62.2	64	50	2	WSW	0.03	3	WSW	62.3	61.5	61.5	30.199	0	0	0.002	0	73	46	51	72.2	8.59	0.0743	22	1	95.7	1
9/25/2012	9:08 AM	62.3	62.3	62.3	65	50.4	2	N	0.03	7	WNW	62.3	61.6	61.6	30.202	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	24	1	100	1
9/25/2012	9:09 AM	62.4	62.4	62.4	64	50.1	5	W	0.08	9	W	62.4	61.6	61.6	30.201	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	22	1	95.7	1
9/25/2012	9:10 AM	62.5	62.5	62.4	64	50.2	4	NNE	0.07	7	NNW	62.5	61.8	61.8	30.201	0	0	0.002	0	73.3	46	51.3	72.6	8.58	0.0742	24	1	100	1
9/25/2012	9:11 AM	62.4	62.4	62.4	63	49.6	4	W	0.07	6	NNW	62.4	61.5	61.5	30.202	0	0	0.002	0	73.5	46	51.4	72.8	8.58	0.0742	22	1	95.7	1
9/25/2012	9:12 AM	62.4	62.4	62.4	63	49.6	4	N	0.07	7	NNE	62.4	61.5	61.5	30.202	0	0	0.002	0	73.5	46	51.4	72.8	8.58	0.0742	23	1	100	1
9/25/2012	9:13 AM	62.3	62.4	62.3	63	49.5	4	WSW	0.07	6	W	62.3	61.4	61.4	30.204	0	0	0.002	0	73.6	45	50.9	72.9	8.45	0.0742	23	1	100	1
9/25/2012	9:14 AM	62.4	62.4	62.4	64	50.1	0	WSW	0	1	WSW	62.4	61.6	61.6	30.202	0	0	0.002	0	73.6	45	50.9	72.9	8.45	0.0742	23	1	100	1
9/25/2012	9:15 AM	62.5	62.5	62.4	64	50.2	3	N	0.05	7	NW	62.5	61.8	61.8	30.201	0	0	0.002	0	73.6	45	50.9	72.9	8.45	0.0742	23	1	100	1
9/25/2012	9:16 AM	62.5	62.5	62.5	63	49.7	3	N	0.05	8	NNW	62.5	61.7	61.7	30.203	0	0	0.002	0	73.8	45	51.1	73.1	8.45	0.0742	21	1	91.3	1
9/25/2012	9:17 AM	62.6	62.6	62.5	63	49.8	4	NNE	0.07	8	NNE	62.6	61.8	61.8	30.204	0	0	0.002	0	73.8	45	51.1	73.1	8.45	0.0742	23	1	100	1
9/25/2012	9:18 AM	62.6	62.6	62.6	63	49.8	4	N	0.07	9	NNW	62.6	61.8	61.8	30.204	0	0	0.002	0	74	45	51.3	73.4	8.45	0.0741	22	1	95.7	1
9/25/2012	9:19 AM	62.6	62.6	62.6	62	49.4	3	NE	0.05	6	WSW	62.6	61.7	61.7	30.204	0	0	0.002	0	74.2	45	51.5	73.7	8.45	0.0741	23	1	100	1
9/25/2012	9:20 AM	62.5	62.6	62.5	62	49.3	5	WSW	0.08	9	WSW	62.5	61.6	61.6	30.203	0	0	0.002	0	74.2	45	51.5	73.7	8.45	0.0741	23	1	100	1
9/25/2012	9:21 AM	62.4	62.5	62.4	63	49.6	3	W	0.05	6	W	62.4	61.5	61.5	30.205	0	0	0.002	0	74.3	44	51	73.7	8.26	0.0741	23	1	100	1
9/25/2012	9:22 AM	62.4	62.4	62.3	63	49.6	1	NNW	0.02	4	NW	62.4	61.5	61.5	30.205	0	0	0.002	0	74.3	44	51	73.7	8.26	0.0741	23	1	100	1
9/25/2012	9:23 AM	62.4	62.4	62.3	63	49.6	3	WSW	0.05	5	WNW	62.4	61.5	61.5	30.203	0	0	0.002	0	74.5	44	51.2	74	8.26	0.0741	23	1	100	1
9/25/2012	9:24 AM	62.3	62.4	62.3	62	49.1	2	SW	0.03	4	SW	62.3	61.3	61.3	30.202	0	0	0.002	0	74.5	44	51.2	74	8.26	0.0741	23	1	100	1
9/25/2012	9:25 AM	62.4	62.4	62.3	63	49.6	4	SW	0.07	12	W	62.4	61.5	61.5	30.202	0	0	0.002	0	74.7	44	51.3	74.2	8.26	0.074	24	1	100	1
9/25/2012	9:26 AM	62.3	62.4	62.3	62	49.1	6	WNW	0.1	10	W	62.3	61.3	61.3	30.204	0	0	0.002	0	74.7	44	51.3	74.2	8.26	0.074	23	1	100	1
9/25/2012	9:27 AM	62.3	62.3	62.3	62	49.1	3	NNE	0.05	7	WNW	62.3	61.3	61.3	30.203	0	0	0.002	0	74.9	43	50.9	74.4	8.05	0.074	24	1	100	1
9/25/2012	9:28 AM	62.3	62.3	62.3	62	49.1	2	W	0.03	7	W	62.3	61.3	61.3	30.203	0	0	0.002	0	74.9	43	50.9	74.4	8.05	0.074	23	1	100	1
9/25/2012	9:29 AM	62.3	62.3	62.3	62	49.1	5	WSW	0.08	8	WSW	62.3	61.3	61.3	30.203	0	0	0.002	0	74.9	43	50.9	74.4	8.05	0.074	23	1	100	1
9/25/2012	9:30 AM	62.2	62.3	62.2	62	49	6	SW	0.1	10	WSW	62.2	61.2	61.2	30.204	0	0	0.002	0	74.9	43	50.9	74.4	8.05	0.074	24	1	100	1
9/25/2012	9:31 AM	62.1	62.2	62.1	62	48.9	4	WSW	0.07	8	WSW	62.1	61.1	61.1	30.202	0	0	0.002	0	74.9	43	50.9	74.4	8.05	0.074	23	1	100	1
9/25/2012	9:32 AM	62.2	62.2	62.1	62	49	1	SW	0.02	6	SW	62.2	61.2	61.2	30.202	0	0	0.002	0	75	43	51	74.5	8.05	0.074	24	1	100	1
9/25/2012	9:33 AM	62.2	62.2	62.2	62	49	5	WSW	0.08	9	WSW	62.2	61.2	61.2	30.202	0	0	0.002	0	75	43	51	74.5	8.05	0.074	23	1	100	1
9/25/2012	9:34 AM	62.2	62.2	62.2	63	49.4	2	SSW	0.03	5	SSW	62.2	61.3	61.3	30.202	0	0	0.002	0	75	43	51	74.5	8.05	0.074	24	1	100	1
9/25/2012	9:35 AM	62.3	62.3	62.2	63	49.5	5	WSW	0.08	6	NNW	62.3	61.4	61.4	30.202	0	0	0.002	0	75	43	51	74.5	8.05	0.074	23	1	100	1
9/25/2012	9:36 AM	62.4	62.4	62.3	63	49.6	2	WSW	0.03	4	WSW	62.4	61.5	61.5	30.202	0	0	0.002	0	75	43	51	74.5	8.05	0.074	23	1	100	1
9/25/2012	9:37 AM	62.6	62.6	62.4	62	49.4	3	SW	0.05	8	NW	62.6	61.7	61.7	30.203	0	0	0.002	0	75.2	43	51.2	74.7	8.05	0.074	24	1	100	1
9/25/2012	9:38 AM	62.7	62.7	62.6	62	49.5	4	WNW	0.07	8	NW	62.7	61.8	61.8	30.202	0	0	0.002	0	75.2	43	51.2	74.7	8.05	0.074	23	1	100	1
9/25/2012	9:39 AM	62.8	62.8	62.7	62	49.6	3	WSW	0.05	7	W	62.8	61.9	61.9	30.203	0	0	0.002	0	75.4	43	51.3	74.9	8.05	0.0739	24	1	100	1
9/25/2012	9:40 AM	62.9	62.9	62.8	62	49.7	3	N	0.05	7	WNW	62.9	62	62	30.202	0	0	0.001	0	75.4	43	51.3	74.9	8.05	0.0739	23	1	100	1
9/25/2012	9:41 AM	62.9	62.9	62.9	62	49.7	4	SW	0.07	6	SW	62.9	62	62	30.203	0	0	0.001	0	75.4	43	51.3	74.9	8.05	0.0739	23	1	100	1
9/25/2012	9:42 AM	63	63	62.9	62	49.8	1	NE	0.02	3	NE	63	62.1	62.1	30.201	0	0	0.001	0	75.6	43	51.5	75	8.05	0.0739	24	1	100	1
9/25/2012	9:43 AM	63.1	63.1	63	62	49.9	0	NE	0	1	NE	63.1	62.2	62.2	30.202	0	0	0.001	0	75.6	43	51.5	75	8.05	0.0739	23	1	100	1
9/25/2012	9:44 AM	63.2	63.2	63.1	62	50	4	WSW	0.07	8	SW	63.2	62.3	62.3	30.201	0	0	0.001	0	75.7	42	51	75	7.94	0.0739	24	1	100	1
9/25/2012	9:45 AM	63.3	63.3	63.2	61	49.6	2	WSW	0.03	5	W	63.3	62.4	62.4	30.2	0	0	0.001	0	75.7	42	51	75	7.94	0.0739	23	1	100	1
9/25/2012	9:46 AM	63.3	63.3	63.3	62	50.1	1	WSW	0.02	3	WSW	63.3	62.4	62.4	30.197	0	0	0.001	0	75.9	42	51.2	75.2	7.93	0.0738	23	1	100	1
9/25/2012	9:47 AM	63.4	63.4	63.3	61	49.7	3	WSW	0.05	7	WNW	63.4	62.5	62.5	30.197	0	0	0.001	0	75.9	42	51.2	75.2	7.93	0.0738	24	1	100	1
9/25/2012	9:48 AM	63.3	63.4	63.3	60	49.2	3	SW	0.05	6	SSW	63.3	62.3	62.3	30.197	0	0	0.001	0	75.9	42	51.2	75.2	7.93	0.0738	23	1	100	1
9/25/2012	9:49 AM	63.3	63.4	63.3	60	49.2	3	SW	0.05	7	NNW	63.3	62.3	62.3	30.199	0	0	0.001	0	76.1	43	52	75.5	8.05	0.0738	24	1	100	1
9/25/2012	9:50 AM	63.3	63.3	63.3	61	49.6	2	SSW	0.03	5	WSW	63.3	62.4	62.4	30.198	0	0	0.001	0	76.3	42	51.5	75.6	7.92	0.0738	23	1	100	1
9/25/2012	9:51 AM	63.3	63.3	63.3	61	49.6	3	W	0.05	6	WSW	63.3	62.4	62.4	30.199	0	0	0.001	0	76.4	42	51.6	75.7	7.92	0.0738	24	1	100	1
9/25/2012	9:52 AM	63.4	63.4	63.4	61	49.7	1	W	0.02	3	W	63.4	62.5	62.5	30.198	0	0	0.001	0	76.4	41	51	75.6	7.75	0.0738	23	1	100	1
9/25/2012	9:53 AM	63.5	63.5	63.5	61	49.8	2	WSW	0.03	3	W	63.5	62.6	62.6	30.199	0	0	0.001	0	76.6	42	51.8	75.9	7.92	0.0737	23	1	100	1
9/25/2012	9:54 AM	63.6	63.6	63.5	61	49.9	2	WSW	0.03	4	N	63.6	62.7	62.7	30.195	0	0	0.001	0	76.8	41	51.3	76	7.75	0.0737	24	1	100	1
9/25/2012	9:55 AM	63.8	63.8	63.7	61	50.1	3	ENE	0.05	8	WNW	63.8	62.9	62.9	30.196	0	0	0.001	0	77	41	51.5	76.3	7.75	0.0737	23	1	100	1
9/25/2012	9:56 AM	63.8	63.8	63.8	60	49.6	4	NE	0.07	11	WNW	63.8	62.9	62.9	30.198	0	0	0.001	0	77.2	41	51.7	76.4	7.75	0.0737	24	1	100	1
9/25/2012	9:57 AM	63.9	63.9	63.8	60	49.7	5	NW	0.08	8	W	63.9	63	63	30.197	0	0	0.001	0	77.3	41	51.8	76.5	7.75	0.0736	23	1	100	1
9/25/2012	9:58 AM	63.8	63.9	63.8	59	49.2	5	N	0.08	7	N	63.8	62.8	62.8	30.196	0	0	0.001	0	77.5	41	51.9	76.7	7.75	0.0736	23	1	100	1
9/25/2012	9:59 AM	63.8	63.9	63.8	60	49.6	4	SW	0.07	7	WNW	63.8	62.9	62.9	30.194	0	0	0.001	0	77.5	40	51.3	76.6	7.6	0.0736	22	1	95.7	1
9/25/2012	10:00 AM	63.7	63.8	63.7	60	49.5	3	WSW	0.05	5	NNW	63.7	62.7	62.7	30.196	0	0	0.001	0	77.7	40	51.5	76.8	7.6	0.0736	23	1	100	1
9/25/2012	10:01 AM	63.8	63.8	63.7	61	50.1	3	NE	0.05	6	N	63.8	62.9	62.9	30.195	0	0	0.001	0	77.7	40	51.5	76.8	7.6	0.0736	23	1	100	1
9/25/2012	10:02 AM	63.8	63.8	63.8	61	50.1	4	NNE	0.07	8	N	63.8	62.9	62.9	30.194	0	0	0.001	0	77.9	40	51.6	77	7.59	0.0735	23	1	100	1
9/25/2012	10:03 AM	63.9	63.9	63.8	60	49.7	4	WSW	0.07	9	W	63.9	63	63	30.195	0	0	0.001	0	77.9	40	51.6	77	7.59	0.0736	23	1	100	1
9/25/2012	10:04 AM	63.9	63.9	63.9	60	49.7	3	WSW	0.05	6	NW	63.9	63	63	30.195	0	0	0.001	0	78	40	51.7	77.1	7.59	0.0735	23	1	100	1
9/25/2012	10:05 AM	63.9	63.9	63.9	60	49.7	4	NNE	0.07	8	NW	63.9	63	63	30.192	0	0	0.001	0	78	40	51.7	77.1	7.59	0.0735	22	1	95.7	1
9/25/2012	10:06 AM	63.9	63.9	63.9	61	50.2	3	NNE	0.05	7	W	63.9	63.1	63.1	30.196	0	0	0.001	0	78	40	51.7	77.1	7.59	0.0735	24	1	100	1
9/25/2012	10:07 AM	63.9	63.9	63.9	60	49.7	2	SW	0.03	3	SW	63.9	63	63	30.194	0	0	0.001	0	78.2	40	51.9	77.3	7.59	0.0735	22	1	95.7	1
9/25/2012	10:08 AM	63.9	63.9	63.9	61	50.2	2	WSW	0.03	3	WSW	63.9	63.1	63.1	30.194	0	0	0.001	0	78.2	40	51.9	77.3	7.59	0.0735	23	1	100	1
9/25/2012	10:09 AM	64	64	63.9	60	49.8	3	W	0.05	7	NW	64	63.1	63.1	30.194	0	0	0.001	0	78.2	40	51.9	77.3	7.59	0.0735	23	1	100	1
9/25/2012	10:10 AM	64.1	64.1	64	60	49.9	1	WNW	0.02	4	WNW	64.1	63.2	63.2	30.193	0	0	0.001	0	78.4	40	52.1	77.5	7.58	0.0735	22	1	95.7	1
9/25/2012	10:11 AM	64.3	64.3	64.1	60	50.1	1	SW	0.02	3	SW	64.3	63.4	63.4	30.194	0	0	0	0	78.4	40	52.1	77.5	7.58	0.0735	24	1	100	1
9/25/2012	10:12 AM	64.5	64.5	64.4	60	50.3	3	SW	0.05	7	WNW	64.5	63.6	63.6	30.194	0	0	0	0	78.4	40	52.1	77.5	7.58	0.0735	22	1	95.7	1
9/25/2012	10:13 AM	64.5	64.5	64.5	58	49.4	5	SW	0.08	7	SW	64.5	63.5	63.5	30.194	0	0	0	0	78.4	39	51.4	77.5	7.48	0.0735	24	1	100	1
9/25/2012	10:14 AM	64.5	64.5	64.5	58	49.4	4	WSW	0.07	8	WNW	64.5	63.5	63.5	30.195	0	0	0	0	78.6	39	51.6	77.7	7.48	0.0735	23	1	100	1
9/25/2012	10:15 AM	64.4	64.5	64.4	57	48.8	6	S	0.1	11	W	64.4	63.3	63.3	30.196	0	0	0	0	78.6	39	51.6	77.7	7.48	0.0735	24	1	100	1
9/25/2012	10:16 AM	64.3	64.3	64.3	57	48.7	4	WNW	0.07	8	WSW	64.3	63.2	63.2	30.195	0	0	0	0	78.6	38	50.9	77.6	7.28	0.0735	23	1	100	1
9/25/2012	10:17 AM	64.2	64.3	64.2	57	48.6	3	N	0.05	6	WSW	64.2	63.1	63.1	30.194	0	0	0.001	0	78.6	39	51.6	77.7	7.48	0.0735	23	1	100	1
9/25/2012	10:18 AM	64.1	64.2	64.1	57	48.5	6	WSW	0.1	10	W	64.1	63	63	30.194	0	0	0.001	0	78.6	38	50.9	77.6	7.28	0.0735	24	1	100	1
9/25/2012	10:19 AM	64	64.1	64	57	48.5	6	SW	0.1	10	SW	64	62.9	62.9	30.194	0	0	0.001	0	78.6	39	51.6	77.7	7.48	0.0735	23	1	100	1
9/25/2012	10:20 AM	63.9	64	63.9	57	48.4	5	WSW	0.08	10	W	63.9	62.7	62.7	30.194	0	0	0.001	0	78.6	39	51.6	77.7	7.48	0.0735	24	1	100	1
9/25/2012	10:21 AM	63.7	63.8	63.7	57	48.2	7	WSW	0.12	11	W	63.7	62.5	62.5	30.193	0	0	0.001	0	78.8	39	51.7	77.9	7.47	0.0734	23	1	100	1
9/25/2012	10:22 AM	63.6	63.7	63.6	58	48.5	4	SW	0.07	6	W	63.6	62.5	62.5	30.193	0	0	0.001	0	78.8	38	51	77.8	7.27	0.0734	22	1	95.7	1
9/25/2012	10:23 AM	63.6	63.6	63.5	59	49	2	WSW	0.03	7	WSW	63.6	62.5	62.5	30.194	0	0	0.001	0	79	39	51.9	78.1	7.47	0.0734	23	1	100	1
9/25/2012	10:24 AM	63.6	63.6	63.6	59	49	5	WSW	0.08	10	WSW	63.6	62.5	62.5	30.191	0	0	0.001	0	79.2	39	52.1	78.3	7.47	0.0733	23	1	100	1
9/25/2012	10:25 AM	63.6	63.6	63.6	58	48.5	4	WSW	0.07	6	W	63.6	62.5	62.5	30.191	0	0	0.001	0	79.3	39	52.2	78.4	7.46	0.0733	24	1	100	1
9/25/2012	10:26 AM	63.7	63.7	63.6	59	49.1	3	NNW	0.05	7	WSW	63.7	62.7	62.7	30.192	0	0	0.001	0	79.5	39	52.4	78.5	7.46	0.0733	23	1	100	1
9/25/2012	10:27 AM	63.8	63.8	63.6	60	49.6	1	NNW	0.02	3	NNW	63.8	62.9	62.9	30.191	0	0	0.001	0	79.7	39	52.5	78.7	7.46	0.0733	24	1	100	1
9/25/2012	10:28 AM	63.9	63.9	63.8	61	50.2	2	WNW	0.03	6	WNW	63.9	63.1	63.1	30.192	0	0	0.001	0	79.7	39	52.5	78.7	7.46	0.0733	23	1	100	1
9/25/2012	10:29 AM	64.1	64.1	64	59	49.5	3	W	0.05	5	WNW	64.1	63.1	63.1	30.191	0	0	0.001	0	79.9	39	52.7	78.8	7.45	0.0732	23	1	100	1
9/25/2012	10:30 AM	64.2	64.2	64.1	58	49.1	3	WSW	0.05	5	WSW	64.2	63.2	63.2	30.192	0	0	0.001	0	80.1	39	52.9	79	7.45	0.0732	24	1	100	1
9/25/2012	10:31 AM	64.3	64.3	64.2	58	49.2	4	SW	0.07	5	WSW	64.3	63.3	63.3	30.192	0	0	0	0	80.1	39	52.9	79	7.45	0.0732	23	1	100	1
9/25/2012	10:32 AM	64.4	64.4	64.3	58	49.3	3	WSW	0.05	7	W	64.4	63.4	63.4	30.19	0	0	0	0	80.3	39	53.1	79.2	7.44	0.0732	24	1	100	1
9/25/2012	10:33 AM	64.4	64.5	64.4	57	48.8	3	WSW	0.05	5	W	64.4	63.3	63.3	30.189	0	0	0	0	80.3	39	53.1	79.2	7.44	0.0732	23	1	100	1
9/25/2012	10:34 AM	64.5	64.5	64.5	57	48.9	4	SSE	0.07	6	S	64.5	63.4	63.4	30.19	0	0	0	0	80.5	39	53.3	79.4	7.44	0.0731	23	1	100	1
9/25/2012	10:35 AM	64.5	64.5	64.5	57	48.9	6	WSW	0.1	9	W	64.5	63.4	63.4	30.19	0	0	0	0	80.6	39	53.4	79.5	7.44	0.0731	24	1	100	1
9/25/2012	10:36 AM	64.5	64.5	64.5	57	48.9	3	SW	0.05	5	NNE	64.5	63.4	63.4	30.189	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	23	1	100	1
9/25/2012	10:37 AM	64.5	64.5	64.5	56	48.4	4	SW	0.07	8	W	64.5	63.3	63.3	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	24	1	100	1
9/25/2012	10:38 AM	64.4	64.5	64.4	56	48.4	6	WSW	0.1	13	W	64.4	63.2	63.2	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	23	1	100	1
9/25/2012	10:39 AM	64.3	64.4	64.3	56	48.3	4	SW	0.07	13	W	64.3	63.1	63.1	30.186	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:40 AM	64.3	64.3	64.3	57	48.7	3	S	0.05	4	S	64.3	63.2	63.2	30.184	0	0	0	0	81	38	53	79.8	7.25	0.0731	24	1	100	1
9/25/2012	10:41 AM	64.3	64.3	64.3	57	48.7	2	WSW	0.03	4	WSW	64.3	63.2	63.2	30.183	0	0	0	0	81	38	53	79.8	7.25	0.0731	23	1	100	1
9/25/2012	10:42 AM	64.4	64.4	64.3	58	49.3	1	WSW	0.02	3	WSW	64.4	63.4	63.4	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:43 AM	64.5	64.5	64

Meteorological Data
Equity IRM

9/25/2012	12:03 PM	69.2	69.2	69.2	47	48.1	6	WSW	0.1	10	W	69.2	67.4	67.4	30.166	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	23	1	100	1
9/25/2012	12:04 PM	69.1	69.1	69.1	46	47.4	4	NE	0.07	10	WNW	69.1	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:05 PM	69.1	69.1	69	47	48	3	NNE	0.05	5	NNW	69.1	67.4	67.4	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:06 PM	69.1	69.1	69.1	47	48	4	WSW	0.07	5	NNW	69.1	67.4	67.4	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:07 PM	69.2	69.2	69.1	46	47.5	4	SSW	0.07	8	SW	69.2	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:08 PM	69.3	69.3	69.2	47	48.2	3	ENE	0.05	7	N	69.3	67.5	67.5	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:09 PM	69.5	69.5	69.3	49	49.5	2	NE	0.03	4	NE	69.5	67.9	67.9	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:10 PM	69.6	69.6	69.5	49	49.6	5	SW	0.08	8	W	69.6	67.9	67.9	30.161	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:11 PM	69.6	69.6	69.6	49	49.6	5	WSW	0.08	8	W	69.6	67.9	67.9	30.161	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:12 PM	69.4	69.5	69.4	50	49.9	3	WSW	0.05	5	WSW	69.4	67.9	67.9	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:13 PM	69.5	69.5	69.4	50	50	6	SSW	0.1	8	SW	69.5	67.9	67.9	30.161	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	12:14 PM	69.5	69.5	69.5	48	48.9	6	S	0.1	9	SSE	69.5	67.8	67.8	30.161	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	12:15 PM	69.6	69.6	69.5	48	49	4	S	0.07	10	WSW	69.6	67.8	67.8	30.162	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	12:16 PM	69.6	69.6	69.6	47	48.5	4	WSW	0.07	8	W	69.6	67.7	67.7	30.163	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	12:17 PM	69.6	69.6	69.5	47	48.5	4	SSE	0.07	7	S	69.6	67.7	67.7	30.163	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	12:18 PM	69.6	69.6	69.5	48	49	4	SSW	0.07	7	SW	69.6	67.8	67.8	30.164	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	12:19 PM	69.6	69.6	69.5	49	49.6	2	S	0.03	3	S	69.6	67.9	67.9	30.163	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	22	1	95.7	1
9/25/2012	12:20 PM	69.7	69.7	69.6	49	49.7	4	S	0.07	7	SSW	69.7	68	68	30.162	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	12:21 PM	69.8	69.8	69.7	48	49.2	4	SSW	0.07	8	SSW	69.8	68	68	30.162	0	0	0	0.003	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	12:22 PM	70	70	69.8	49	50	1	NE	0.02	3	NE	70	68.2	68.2	30.163	0	0	0	0.003	85.3	35	54.5	84.5	6.66	0.0724	23	1	100	1
9/25/2012	12:23 PM	70.3	70.3	70.1	48	49.7	3	S	0.05	6	S	70.3	68.5	68.5	30.164	0	0	0	0.004	85.5	35	54.7	84.8	6.66	0.0723	24	1	100	1
9/25/2012	12:24 PM	70.4	70.4	70.3	48	49.8	3	S	0.05	4	SSW	70.4	68.6	68.6	30.164	0	0	0	0.004	85.5	35	54.7	84.8	6.66	0.0723	23	1	100	1
9/25/2012	12:25 PM	70.5	70.5	70.5	47	49.3	4	SSE	0.07	7	SSE	70.5	68.6	68.6	30.163	0	0	0	0.004	85.7	35	54.9	85	6.66	0.0723	22	1	95.7	1
9/25/2012	12:26 PM	70.5	70.6	70.5	46	48.7	8	WSW	0.13	11	W	70	68.6	68.1	30.164	0	0	0	0.004	85.7	35	54.9	85	6.66	0.0723	23	1	100	1
9/25/2012	12:27 PM	70.2	70.4	70.2	47	49	6	SW	0.1	8	WSW	70.2	68.3	68.3	30.166	0	0	0	0.004	85.9	35	55.1	85.2	6.67	0.0723	22	1	95.7	1
9/25/2012	12:28 PM	70	70.2	70	47	48.8	3	W	0.05	6	W	70	68	68	30.167	0	0	0	0.003	85.9	35	55.1	85.2	6.67	0.0723	23	1	100	1
9/25/2012	12:29 PM	69.8	70	69.8	48	49.2	7	WSW	0.12	10	W	69.8	68	68	30.167	0	0	0	0.003	85.9	35	55.1	85.2	6.67	0.0723	23	1	100	1
9/25/2012	12:30 PM	69.6	69.7	69.6	48	49	5	SSW	0.08	8	W	69.6	67.8	67.8	30.168	0	0	0	0.003	85.9	35	55.1	85.2	6.67	0.0723	23	1	100	1
9/25/2012	12:31 PM	69.5	69.5	69.5	48	48.9	5	SSE	0.08	10	S	69.5	67.8	67.8	30.167	0	0	0	0.003	85.9	35	55.1	85.2	6.67	0.0723	23	1	100	1
9/25/2012	12:32 PM	69.5	69.5	69.5	48	48.9	3	SSE	0.05	7	SSE	69.5	67.8	67.8	30.167	0	0	0	0.003	85.9	35	55.1	85.2	6.67	0.0723	22	1	95.7	1
9/25/2012	12:33 PM	69.6	69.6	69.5	48	49	4	SW	0.07	7	WSW	69.6	67.8	67.8	30.169	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:34 PM	69.5	69.6	69.5	48	48.9	5	SW	0.08	6	SW	69.5	67.8	67.8	30.169	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	22	1	95.7	1
9/25/2012	12:35 PM	69.4	69.5	69.4	47	48.3	3	WSW	0.05	4	WSW	69.4	67.6	67.6	30.167	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:36 PM	69.4	69.4	69.4	49	49.4	4	S	0.07	5	S	69.4	67.8	67.8	30.169	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:37 PM	69.4	69.4	69.4	48	48.9	5	SSE	0.08	11	SSE	69.4	67.7	67.7	30.168	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:38 PM	69.5	69.5	69.4	49	49.5	4	SSE	0.07	8	WSW	69.5	67.9	67.9	30.166	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:39 PM	69.6	69.6	69.5	49	49.6	6	SSE	0.1	8	ESE	69.6	67.9	67.9	30.167	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:40 PM	69.7	69.7	69.6	48	49.1	4	W	0.07	7	S	69.7	67.9	67.9	30.166	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:41 PM	69.9	69.9	69.7	49	49.9	3	WSW	0.05	8	W	69.9	68.1	68.1	30.168	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	22	1	95.7	1
9/25/2012	12:42 PM	69.9	69.9	69.9	48	49.3	4	WSW	0.07	8	WSW	69.9	68	68	30.167	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:43 PM	70	70	69.9	49	50	4	NW	0.07	9	SSW	70	68.2	68.2	30.169	0	0	0	0.003	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:44 PM	70.1	70.1	70	48	49.5	4	S	0.07	9	SW	70.1	68.2	68.2	30.168	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:45 PM	70.3	70.3	70.1	48	49.7	5	SSE	0.08	10	SW	70.3	68.5	68.5	30.167	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:46 PM	70.4	70.4	70.3	48	49.8	5	SSW	0.08	8	SSE	70.4	68.6	68.6	30.167	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:47 PM	70.4	70.4	70.4	48	49.8	3	SW	0.05	5	SSW	70.4	68.6	68.6	30.167	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:48 PM	70.4	70.4	70.4	47	49.2	5	SE	0.08	10	WSW	70.4	68.5	68.5	30.165	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:49 PM	70.4	70.4	70.4	47	49.2	6	WSW	0.1	9	NW	70.4	68.5	68.5	30.167	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:50 PM	70.3	70.4	70.3	47	49.1	6	WSW	0.1	9	WSW	70.3	68.4	68.4	30.165	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:51 PM	70.2	70.3	70.2	47	49	3	W	0.05	6	WSW	70.2	68.3	68.3	30.165	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:52 PM	70.1	70.2	70.1	47	48.9	4	S	0.07	7	WSW	70.1	68.1	68.1	30.165	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:53 PM	70.1	70.1	70.1	47	48.9	4	SW	0.07	7	SW	70.1	68.1	68.1	30.166	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	22	1	95.7	1
9/25/2012	12:54 PM	70.1	70.1	70.1	48	49.5	4	SSE	0.07	6	SSE	70.1	68.2	68.2	30.166	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	12:55 PM	70.1	70.1	70.1	48	49.5	5	WSW	0.08	11	WSW	70.1	68.2	68.2	30.163	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:56 PM	70.1	70.1	70.1	47	48.9	5	WSW	0.08	7	W	70.1	68.1	68.1	30.163	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:57 PM	70.1	70.1	70	48	49.5	4	SSE	0.07	8	SE	70.1	68.2	68.2	30.163	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:58 PM	70.3	70.3	70.1	48	49.7	2	S	0.03	6	S	70.3	68.5	68.5	30.164	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	12:59 PM	70.3	70.3	70.3	48	49.7	3	WSW	0.05	5	WSW	70.3	68.5	68.5	30.162	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	1:00 PM	70.4	70.4	70.4	47	49.2	5	WSW	0.08	8	W	70.4	68.5	68.5	30.163	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:01 PM	70.4	70.4	70.4	47	49.2	6	WSW	0.1	9	W	70.4	68.5	68.5	30.162	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:02 PM	70.4	70.4	70.3	48	49.8	4	SSW	0.07	9	S	70.4	68.6	68.6	30.16	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	1:03 PM	70.4	70.4	70.4	47	49.2	5	W	0.08	8	W	70.4	68.5	68.5	30.163	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:04 PM	70.4	70.4	70.4	47	49.2	5	WSW	0.08	9	WSW	70.4	68.5	68.5	30.158	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	1:05 PM	70.4	70.4	70.4	47	49.2	6	WSW	0.1	10	W	70.4	68.5	68.5	30.16	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:06 PM	70.4	70.4	70.4	47	49.2	5	W	0.08	8	WNW	70.4	68.5	68.5	30.159	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	24	1	100	1
9/25/2012	1:07 PM	70.4	70.4	70.4	48	49.8	5	W	0.08	7	W	70.4	68.6	68.6	30.159	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:08 PM	70.6	70.6	70.5	48	50	7	S	0.12	11	SW	70.6	68.9	68.9	30.158	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:09 PM	70.7	70.7	70.6	47	49.5	5	SSW	0.08	9	SSW	70.7	68.9	68.9	30.158	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:10 PM	70.8	70.8	70.7	47	49.6	3	SSE	0.05	6	NW	70.8	69	69	30.16	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:11 PM	70.9	70.9	70.8	47	49.7	4	W	0.07	9	W	70.9	69.2	69.2	30.162	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	23	1	100	1
9/25/2012	1:12 PM	71	71	71	46	49.2	8	SW	0.13	16	WSW	70.5	69.2	68.7	30.162	0	0	0	0.004	85.9	34	54.3	85	6.47	0.0723	23	1	100	1
9/25/2012	1:13 PM	71	71	70.9	46	49.2	4	S	0.07	16	WSW	71	69.2	69.2	30.16	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	22	1	95.7	1
9/25/2012	1:14 PM	71	71	70.9	46	49.2	4	WSW	0.07	7	W	71	69.2	69.2	30.16	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	24	1	100	1
9/25/2012	1:15 PM	71	71.1	71	47	49.7	5	SW	0.08	11	W	71	69.3	69.3	30.159	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	22	1	95.7	1
9/25/2012	1:16 PM	71	71.1	71	46	49.2	5	WSW	0.08	11	W	71	69.2	69.2	30.159	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	24	1	100	1
9/25/2012	1:17 PM	71.1	71.1	71.1	47	49.8	5	SSE	0.08	13	SE	71.1	69.4	69.4	30.159	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	22	1	95.7	1
9/25/2012	1:18 PM	71.2	71.2	71.1	46	49.4	6	SSE	0.1	8	SSE	71.2	69.5	69.5	30.158	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	22	1	95.7	1
9/25/2012	1:19 PM	71.4	71.4	71.3	47	50.1	3	SSE	0.05	7	SSE	71.4	69.9	69.9	30.157	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	24	1	100	1
9/25/2012	1:20 PM	71.5	71.5	71.4	46	49.6	5	SSW	0.08	9	S	71.5	69.9	69.9	30.157	0	0	0	0.005	85.7	34	54.1	84.8	6.46	0.0723	22	1	95.7	1
9/25/2012	1:21 PM	71.5	71.5	71.5	47	50.2	5	W	0.08	10	S	71.5	70	70	30.156	0	0	0	0.005	85.7	34	54.1	84.8	6.46	0.0723	24	1	100	1
9/25/2012	1:22 PM	71.5	71.5	71.5	46	49.6	6	W	0.1	11	W	71.5	69.9	69.9	30.155	0	0	0	0.005	85.7	34	54.1	84.8	6.46	0.0723	23	1	100	1
9/25/2012	1:23 PM	71.4	71.5	71.4	47	50.1	5	W	0.08	9	WSW	71.4	69.9	69.9	30.156	0	0	0	0.004	85.7	34	54.1	84.8	6.46	0.0723	24	1	100	1
9/25/2012	1:24 PM	71.4	71.4	71.4	47	50.1	5	S	0.08	11	S	71.4	69.9	69.9	30.155	0	0	0	0.004	85.5	34	53.9	84.6	6.46	0.0723	22	1	95.7	1
9/25/2012	1:25 PM	71.5	71.5	71.5	47	50.2	4	S	0.07	10	WSW	71.5	70	70	30.154	0	0	0	0.005	85.5	34	53.9	84.6	6.46	0.0723	23	1	100	1
9/25/2012	1:26 PM	71.5	71.5	71.5	46	49.6	5	SW	0.08	10	W	71.5	69.9	69.9	30.153	0	0	0	0.005	85.5	34	53.9	84.6	6.46	0.0723	24	1	100	1
9/25/2012	1:27 PM	71.5	71.5	71.5	46	49.6	7	SW	0.12	9	W	71.5	69.9	69.9	30.154	0	0	0	0.005	85.5	34	53.9	84.6	6.46	0.0723	23	1	100	1
9/25/2012	1:28 PM	71.5	71.5	71.5	46	49.6	5	SSW	0.08	9	WSW	71.5	69.9	69.9	30.156	0	0	0	0.005	85.3	34	53.8	84.3	6.46	0.0724	24	1	100	1
9/25/2012	1:29 PM	71.5	71.5	71.5	47	50.2	4	SSW	0.07	7	WSW	71.5	70	70	30.155	0	0	0	0.005	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	1:30 PM	71.6	71.6	71.5	47	50.3	7	S	0.12	10	SW	71.6	70.2	70.2	30.155	0	0	0	0.005	85.3	34	53.8	84.3	6.46	0.0724	23	1	100	1
9/25/2012	1:31 PM	71.6	71.6	71.6	47	50.3	7	SSW	0.12	12	S	71.6	70.2	70.2	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	1:32 PM	71.7	71.7	71.6	46	49.8	6	SSE	0.1	13	S	71.7	70.2	70.2	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	22	1	95.7	1
9/25/2012	1:33 PM	71.7	71.7	71.7	46	49.8	8	SSW	0.13	11	S	71.2	70.2	69.7	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	1:34 PM	71.9	71.9	71.8	46	50	5	W	0.08	7	SW	71.9	70.6	70.6	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	1:35 PM	71.9	71.9	71.8	47	50.6	2	WSW	0.03	6	S	71.9	70.6	70.6	30.152	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	24	1	100	1
9/25/2012	1:36 PM	72	72	72	46	50.1	5	SSW	0.08	9	S	72	70.7	70.7	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:37 PM	72.1	72.1	72.1	45	49.6	6	SW	0.1	8	SSW	72.1	70.8	70.8	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:38 PM	72.1	72.1	72.1	45	49.6	5	WSW	0.08	10	NNW	72.1	70.8	70.8	30.158	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	1:39 PM	72.2	72.2	72.1	45	49.7	4	SW	0.07	6	SW	72.2	70.9	70.9	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:40 PM	72.1	72.2	72.1	44	49	7	WSW	0.12	15	WNW	72.1	70.7	70.7	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	24	1	100	1
9/25/2012	1:41 PM	72	72.1	72	44	48.9	7	W	0.12	12	WNW	72	70.5	70.5	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:42 PM	71.9	72	71.9	44	48.8	7	WSW	0.12	13	WSW	71.9	70.4	70.4	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:43 PM	71.6	71.9	71.6	43	47.9	10	WSW

Meteorological Data
Equity IRM

9/25/2012	8:40 PM	67.2	67.2	67.1	64	54.6	4	S	0.07	7	NW	67.2	67.1	67.1	30.146	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:41 PM	67.2	67.2	67.1	64	54.6	3	S	0.05	6	SW	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:42 PM	67.2	67.2	67.1	64	54.6	7	SSW	0.12	13	SW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:43 PM	67.2	67.2	67.1	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:44 PM	67.2	67.2	67.2	64	54.6	7	WSW	0.12	11	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:45 PM	67.2	67.2	67.2	64	54.6	6	SW	0.1	10	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:46 PM	67.2	67.2	67.2	64	54.6	5	SW	0.08	12	WSW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:47 PM	67.2	67.2	67.2	64	54.6	5	WSW	0.08	10	WSW	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:48 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:49 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	12	S	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:50 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	12	S	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:51 PM	67.2	67.2	67.2	64	54.6	6	W	0.1	10	W	67.2	67.1	67.1	30.151	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:52 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:53 PM	67.2	67.2	67.2	64	54.6	7	W	0.12	12	SSE	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:54 PM	67.2	67.2	67.2	64	54.6	6	WSW	0.1	9	W	67.2	67.1	67.1	30.15	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:55 PM	67.1	67.2	67.1	64	54.5	6	WSW	0.1	11	SW	67.1	67	67	30.149	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:56 PM	67.1	67.2	67.1	64	54.5	6	SSW	0.1	10	SSE	67.1	67	67	30.149	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:57 PM	67.1	67.2	67.1	64	54.5	4	SW	0.07	8	W	67.1	67	67	30.148	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:58 PM	67.1	67.1	67.1	64	54.5	5	SSW	0.08	8	S	67.1	67	67	30.149	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:59 PM	67.1	67.1	67.1	65	54.9	1	SW	0.02	3	SW	67.1	67.1	67.1	30.148	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:00 PM	67.1	67.1	67.1	64	54.5	4	WSW	0.07	9	NW	67.1	67	67	30.148	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:01 PM	67.1	67.1	67.1	64	54.5	6	W	0.1	13	S	67.1	67	67	30.151	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:02 PM	67.1	67.1	67.1	64	54.5	4	SSW	0.07	8	SSW	67.1	67	67	30.149	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:03 PM	67.1	67.1	67.1	64	54.5	6	S	0.1	9	SSW	67.1	67	67	30.15	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:04 PM	67.1	67.1	67.1	64	54.5	6	SSW	0.1	11	S	67.1	67	67	30.15	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:05 PM	67.1	67.1	67.1	64	54.5	3	S	0.05	5	S	67.1	67	67	30.146	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:06 PM	67.1	67.1	67.1	65	54.9	4	SSE	0.07	6	SW	67.1	67.1	67.1	30.151	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:07 PM	67.1	67.1	67	64	54.5	5	W	0.08	11	W	67.1	67	67	30.145	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:08 PM	67	67.1	67	64	54.4	6	SSE	0.1	11	SSE	67	66.9	66.9	30.146	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:09 PM	67	67	67	65	54.8	4	WSW	0.07	7	WNW	67	67	67	30.149	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:10 PM	67	67	67	65	54.8	3	SSE	0.05	6	SSE	67	67	67	30.148	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:11 PM	67	67	67	65	54.8	4	SW	0.07	8	WSW	67	67	67	30.148	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	22	1	95.7	1
9/25/2012	9:12 PM	67	67	67	65	54.8	8	W	0.13	15	SSE	66.4	67	66.4	30.145	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:13 PM	67	67	67	65	54.8	7	W	0.12	12	SW	67	67	67	30.146	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	9:14 PM	67	67	67	65	54.8	6	S	0.1	9	SW	67	67	67	30.145	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:15 PM	67	67	67	65	54.8	6	SSW	0.1	12	SW	67	67	67	30.144	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	9:16 PM	67	67	67	65	54.8	3	WSW	0.05	6	WSW	67	67	67	30.144	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:17 PM	67	67	67	65	54.8	4	S	0.07	7	SSE	67	67	67	30.144	0	0	0	0.001	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	9:18 PM	67	67	66.9	65	54.8	4	SSE	0.07	7	SSW	67	67	67	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:19 PM	67	67	66.9	65	54.8	4	WSW	0.07	7	WSW	67	67	67	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:20 PM	66.9	67	66.9	65	54.7	3	S	0.05	6	S	66.9	66.9	66.9	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:21 PM	66.9	66.9	66.9	65	54.7	3	S	0.05	7	SSE	66.9	66.9	66.9	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:22 PM	66.9	66.9	66.9	65	54.7	4	WSW	0.07	7	WSW	66.9	66.9	66.9	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:23 PM	66.9	66.9	66.8	65	54.7	4	SSW	0.07	9	S	66.9	66.9	66.9	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:24 PM	66.8	66.8	66.8	65	54.7	3	S	0.05	9	WSW	66.8	66.8	66.8	30.141	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:25 PM	66.8	66.8	66.8	65	54.7	7	W	0.12	12	WSW	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:26 PM	66.8	66.8	66.8	65	54.7	6	W	0.1	10	WSW	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:27 PM	66.8	66.8	66.8	65	54.7	4	S	0.07	12	W	66.8	66.8	66.8	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:28 PM	66.8	66.8	66.8	65	54.7	5	S	0.08	9	SW	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:29 PM	66.8	66.8	66.8	65	54.7	5	SW	0.08	9	W	66.8	66.8	66.8	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	21	1	91.3	1
9/25/2012	9:30 PM	66.8	66.8	66.8	66	55.1	4	W	0.07	9	SSE	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:31 PM	66.8	66.8	66.8	66	55.1	5	SW	0.08	9	SSW	66.8	66.8	66.8	30.144	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:32 PM	66.8	66.8	66.8	66	55.1	4	SSW	0.07	8	SSW	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:33 PM	66.8	66.8	66.8	65	54.7	7	S	0.12	11	WSW	66.8	66.8	66.8	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	9:34 PM	66.8	66.8	66.8	66	55.1	6	W	0.1	10	W	66.8	66.8	66.8	30.139	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:35 PM	66.8	66.8	66.8	65	54.7	4	W	0.07	8	W	66.8	66.8	66.8	30.14	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:36 PM	66.8	66.8	66.8	66	55.1	3	SW	0.05	8	SSW	66.8	66.8	66.8	30.139	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:37 PM	66.8	66.8	66.7	65	54.7	6	SSE	0.1	11	S	66.8	66.8	66.8	30.142	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:38 PM	66.7	66.8	66.7	65	54.6	3	SSE	0.05	7	SSE	66.7	66.6	66.6	30.14	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:39 PM	66.7	66.7	66.7	66	55	4	W	0.07	7	W	66.7	66.7	66.7	30.14	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:40 PM	66.7	66.7	66.7	66	55	5	S	0.08	8	WSW	66.7	66.7	66.7	30.141	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:41 PM	66.7	66.7	66.7	66	55	4	WSW	0.07	6	WNW	66.7	66.7	66.7	30.138	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:42 PM	66.7	66.7	66.7	66	55	4	SSE	0.07	8	SSE	66.7	66.7	66.7	30.143	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	9:43 PM	66.7	66.7	66.7	66	55	4	SW	0.07	8	WNW	66.7	66.7	66.7	30.14	0	0	0	0.001	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	9:44 PM	66.6	66.7	66.6	66	54.9	6	SSE	0.1	9	SSE	66.6	66.6	66.6	30.141	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	24	1	100	1
9/25/2012	9:45 PM	66.6	66.7	66.6	66	54.9	5	S	0.08	12	S	66.6	66.6	66.6	30.141	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	23	1	100	1
9/25/2012	9:46 PM	66.6	66.7	66.6	66	54.9	5	S	0.08	7	WSW	66.6	66.6	66.6	30.142	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	23	1	100	1
9/25/2012	9:47 PM	66.6	66.6	66.6	66	54.9	5	WSW	0.08	9	W	66.6	66.6	66.6	30.14	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	24	1	100	1
9/25/2012	9:48 PM	66.6	66.6	66.6	66	54.9	4	NW	0.07	10	S	66.6	66.6	66.6	30.141	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	23	1	100	1
9/25/2012	9:49 PM	66.6	66.6	66.6	66	54.9	7	W	0.12	12	W	66.6	66.6	66.6	30.141	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	24	1	100	1
9/25/2012	9:50 PM	66.6	66.6	66.6	66	54.9	6	S	0.1	11	SSW	66.6	66.6	66.6	30.143	0	0	0	0.001	64.6	47	43.9	62.6	8.86	0.0755	23	1	100	1
9/25/2012	9:51 PM	66.6	66.6	66.6	66	54.9	6	W	0.1	10	W	66.6	66.6	66.6	30.141	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	23	1	100	1
9/25/2012	9:52 PM	66.6	66.6	66.6	66	54.9	4	W	0.07	7	WSW	66.6	66.6	66.6	30.142	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	24	1	100	1
9/25/2012	9:53 PM	66.6	66.6	66.6	66	54.9	6	SSW	0.1	13	W	66.6	66.6	66.6	30.142	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	23	1	100	1
9/25/2012	9:54 PM	66.6	66.6	66.6	66	54.9	6	SW	0.1	10	NW	66.6	66.6	66.6	30.141	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	24	1	100	1
9/25/2012	9:55 PM	66.6	66.6	66.6	66	54.9	4	S	0.07	7	S	66.6	66.6	66.6	30.141	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	23	1	100	1
9/25/2012	9:56 PM	66.6	66.6	66.6	66	54.9	5	S	0.08	10	S	66.6	66.6	66.6	30.141	0	0	0	0.001	64.5	47	43.8	62.5	8.86	0.0755	24	1	100	1
9/25/2012	9:57 PM	66.6	66.6	66.6	66	54.9	3	SSE	0.05	5	SSE	66.6	66.6	66.6	30.141	0	0	0	0.001	64.3	47	43.6	62.3	8.86	0.0756	23	1	100	1
9/25/2012	9:58 PM	66.6	66.6	66.6	66	54.9	3	SSW	0.05	6	WSW	66.6	66.6	66.6	30.141	0	0	0	0.001	64.3	47	43.6	62.3	8.86	0.0756	23	1	100	1
9/25/2012	9:59 PM	66.5	66.6	66.5	66	54.8	3	S	0.05	7	WSW	66.5	66.5	66.5	30.141	0	0	0	0.001	64.3	47	43.6	62.3	8.86	0.0756	24	1	100	1
9/25/2012	10:00 PM	66.5	66.6	66.5	66	54.8	4	SW	0.07	13	WNW	66.5	66.5	66.5	30.141	0	0	0	0.001	64.3	47	43.6	62.3	8.86	0.0756	23	1	100	1
9/25/2012	10:01 PM	66.6	66.6	66.5	66	54.9	5	WSW	0.08	10	S	66.6	66.6	66.6	30.142	0	0	0	0.001	64.3	47	43.6	62.3	8.86	0.0756	24	1	100	1
9/25/2012	10:02 PM	66.5	66.6	66.5	66	54.8	4	WSW	0.07	7	SSW	66.5	66.5	66.5	30.142	0	0	0	0.001	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/25/2012	10:03 PM	66.5	66.5	66.5	66	54.8	4	W	0.07	9	W	66.5	66.5	66.5	30.139	0	0	0	0.001	64.1	47	43.4	62.1	8.87	0.0756	23	1	100	1
9/25/2012	10:04 PM	66.5	66.5	66.5	66	54.8	4	SW	0.07	8	SW	66.5	66.5	66.5	30.142	0	0	0	0.001	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/25/2012	10:05 PM	66.5	66.5	66.5	66	54.8	1	S	0.02	4	S	66.5	66.5	66.5	30.143	0	0	0	0.001	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/25/2012	10:06 PM	66.5	66.5	66.5	66	54.8	4	S	0.07	6	SW	66.5	66.5	66.5	30.143	0	0	0	0.001	64.1	48	44	62.1	8.99	0.0756	24	1	100	1
9/25/2012	10:07 PM	66.4	66.5	66.4	66	54.7	4	SW	0.07	6	SSW	66.4	66.4	66.4	30.143	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/25/2012	10:08 PM	66.5	66.5	66.4	66	54.8	3	SW	0.05	7	WNW	66.5	66.5	66.5	30.144	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	24	1	100	1
9/25/2012	10:09 PM	66.4	66.4	66.4	66	54.7	4	S	0.07	11	WSW	66.4	66.4	66.4	30.143	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/25/2012	10:10 PM	66.4	66.4	66.4	66	54.7	5	SSW	0.08	8	SSE	66.4	66.4	66.4	30.142	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/25/2012	10:11 PM	66.4	66.4	66.4	67	55.1	3	SW	0.05	9	WSW	66.4	66.4	66.4	30.142	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	24	1	100	1
9/25/2012	10:12 PM	66.4	66.4	66.3	67	55.1	5	W	0.08	10	WSW	66.4	66.4	66.4	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:13 PM	66.3	66.3	66.3	66	54.6	5	NW	0.08	8	WSW	66.3	66.2	66.2	30.142	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	24	1	100	1
9/25/2012	10:14 PM	66.3	66.3	66.3	67	55	5	WSW	0.08	7	WSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:15 PM	66.3	66.3	66.3	67	55	4	S	0.07	6	SSE	66.3	66.3	66.3	30.14	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/25/2012	10:16 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	4	SW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:17 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	5	SSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:18 PM	66.3	66.3	66.2	67	55	5	S	0.08	8	SW	66.3	66.3	66.3	30.14	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:19 PM	66.2	66.3	66.2	67	54.9	4	SSW	0.07	10	S	66.2	66.2	66.2	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:20 PM	66.2	66.2	66.2	67	54.9	5	SSW	0.08	8	SSE	66.2	66.2	66.2	30.142	0	0

Meteorological Data
Equity IRM

9/25/2012	11:40 PM	65.5	65.6	65.5	71	55.8	2	SSE	0.03	4	SSE	65.5	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:41 PM	65.5	65.5	65.5	71	55.8	2	SSW	0.03	4	S	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:42 PM	65.5	65.5	65.5	71	55.8	4	WNW	0.07	6	SE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:43 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	7	SSE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:44 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	5	WSW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:45 PM	65.5	65.5	65.5	71	55.8	5	S	0.08	8	SW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:46 PM	65.5	65.5	65.5	71	55.8	4	NW	0.07	6	SSW	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:47 PM	65.5	65.5	65.5	71	55.8	4	S	0.07	7	S	65.5	65.7	65.7	30.141	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:48 PM	65.5	65.6	65.5	71	55.8	2	S	0.03	5	SSE	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:49 PM	65.5	65.5	65.5	71	55.8	5	S	0.08	10	S	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:50 PM	65.5	65.5	65.5	71	55.8	2	WNW	0.03	6	NNW	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:51 PM	65.5	65.5	65.5	71	55.8	5	WSW	0.08	7	WSW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:52 PM	65.5	65.5	65.5	71	55.8	3	SW	0.05	5	SW	65.5	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:53 PM	65.5	65.5	65.5	71	55.8	5	WSW	0.08	8	W	65.5	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:54 PM	65.5	65.5	65.5	71	55.8	5	WSW	0.08	7	SW	65.5	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:55 PM	65.6	65.6	65.5	71	55.9	3	S	0.05	7	SSE	65.6	65.8	65.8	30.147	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:56 PM	65.5	65.6	65.5	71	55.8	2	SSW	0.03	6	SE	65.5	65.7	65.7	30.147	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:57 PM	65.6	65.6	65.5	71	55.9	2	SW	0.03	3	SW	65.6	65.8	65.8	30.148	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:58 PM	65.5	65.5	65.5	71	55.8	2	SW	0.03	4	SW	65.5	65.7	65.7	30.148	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	22	1	95.7	1
9/25/2012	11:59 PM	65.5	65.5	65.5	71	55.8	2	SW	0.03	5	NW	65.5	65.7	65.7	30.149	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/26/2012	12:00 AM	65.5	65.5	65.5	72	56.2	2	WSW	0.03	4	WSW	65.5	65.7	65.7	30.148	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:01 AM	65.5	65.5	65.5	72	56.2	4	WSW	0.07	6	WSW	65.5	65.7	65.7	30.151	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/26/2012	12:02 AM	65.5	65.5	65.4	72	56.2	5	WSW	0.08	7	SW	65.5	65.7	65.7	30.151	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:03 AM	65.4	65.5	65.4	71	55.7	5	W	0.08	10	W	65.4	65.5	65.5	30.153	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/26/2012	12:04 AM	65.4	65.4	65.4	71	55.7	3	W	0.05	6	W	65.4	65.5	65.5	30.152	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:05 AM	65.4	65.4	65.4	72	56.1	2	SW	0.03	6	WSW	65.4	65.6	65.6	30.151	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:06 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	7	W	65.4	65.6	65.6	30.153	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/26/2012	12:07 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	6	W	65.4	65.6	65.6	30.152	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:08 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	6	W	65.4	65.6	65.6	30.153	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/26/2012	12:09 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	10	SSE	65.4	65.6	65.6	30.152	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	22	1	95.7	1
9/26/2012	12:10 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	SW	65.4	65.6	65.6	30.152	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/26/2012	12:11 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	W	65.4	65.6	65.6	30.154	0	0	0	0	62.1	49	42.7	60.1	9.27	0.076	23	1	100	1
9/26/2012	12:12 AM	65.4	65.4	65.4	72	56.1	3	SW	0.05	6	WSW	65.4	65.6	65.6	30.154	0	0	0	0	62.1	48	42.2	60	9.07	0.076	23	1	100	1
9/26/2012	12:13 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	SW	65.4	65.6	65.6	30.154	0	0	0	0	62.1	48	42.2	60	9.07	0.076	24	1	100	1
9/26/2012	12:14 AM	65.4	65.4	65.4	72	56.1	4	S	0.07	10	WSW	65.4	65.6	65.6	30.153	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	22	1	95.7	1
9/26/2012	12:15 AM	65.4	65.4	65.4	72	56.1	7	WSW	0.12	11	WSW	65.4	65.6	65.6	30.152	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	24	1	100	1
9/26/2012	12:16 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	11	WSW	65.4	65.6	65.6	30.154	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:17 AM	65.4	65.4	65.4	72	56.1	5	WSW	0.08	10	SSE	65.4	65.6	65.6	30.157	0	0	0	0	62.2	48	42.3	60.1	9.06	0.076	23	1	100	1
9/26/2012	12:18 AM	65.4	65.4	65.3	72	56.1	5	SSW	0.08	10	SW	65.4	65.6	65.6	30.155	0	0	0	0	62.2	48	42.3	60.1	9.06	0.076	24	1	100	1
9/26/2012	12:19 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	6	WSW	65.4	65.6	65.6	30.155	0	0	0	0	62.2	48	42.3	60.1	9.06	0.076	23	1	100	1
9/26/2012	12:20 AM	65.4	65.4	65.4	72	56.1	5	WSW	0.08	9	WNW	65.4	65.6	65.6	30.154	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	24	1	100	1
9/26/2012	12:21 AM	65.4	65.4	65.3	72	56.1	4	WSW	0.07	7	SW	65.4	65.6	65.6	30.153	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:22 AM	65.4	65.4	65.3	72	56.1	2	SSE	0.03	6	W	65.4	65.6	65.6	30.152	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:23 AM	65.3	65.4	65.3	72	56	5	SSW	0.08	10	SW	65.3	65.5	65.5	30.152	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	24	1	100	1
9/26/2012	12:24 AM	65.3	65.4	65.3	72	56	7	WSW	0.12	10	W	65.3	65.5	65.5	30.152	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:25 AM	65.3	65.4	65.3	72	56	5	W	0.08	9	W	65.3	65.5	65.5	30.151	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	24	1	100	1
9/26/2012	12:26 AM	65.3	65.4	65.3	72	56	5	WSW	0.08	7	SW	65.3	65.5	65.5	30.149	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:27 AM	65.3	65.4	65.3	72	56	3	SE	0.05	5	ESE	65.3	65.5	65.5	30.151	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	24	1	100	1
9/26/2012	12:28 AM	65.3	65.4	65.3	72	56	5	WSW	0.08	7	WNW	65.3	65.5	65.5	30.149	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:29 AM	65.3	65.3	65.3	72	56	3	WSW	0.05	7	WSW	65.3	65.5	65.5	30.15	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0759	23	1	100	1
9/26/2012	12:30 AM	65.3	65.3	65.3	72	56	3	WSW	0.05	5	WNW	65.3	65.5	65.5	30.15	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:31 AM	65.3	65.3	65.3	72	56	2	SSE	0.03	6	SSE	65.3	65.5	65.5	30.15	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:32 AM	65.3	65.3	65.3	72	56	5	W	0.08	9	W	65.3	65.5	65.5	30.149	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:33 AM	65.3	65.3	65.3	72	56	3	SSW	0.05	7	WSW	65.3	65.5	65.5	30.15	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:34 AM	65.3	65.3	65.3	72	56	3	W	0.05	5	W	65.3	65.5	65.5	30.149	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:35 AM	65.3	65.3	65.3	72	56	3	WSW	0.05	7	WSW	65.3	65.5	65.5	30.15	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:36 AM	65.3	65.3	65.3	72	56	5	W	0.08	9	W	65.3	65.5	65.5	30.149	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:37 AM	65.3	65.3	65.3	72	56	3	W	0.05	5	WSW	65.3	65.5	65.5	30.146	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:38 AM	65.3	65.3	65.3	73	56.4	2	S	0.03	5	S	65.3	65.5	65.5	30.15	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:39 AM	65.3	65.3	65.3	72	56	3	S	0.05	5	SW	65.3	65.5	65.5	30.151	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:40 AM	65.3	65.3	65.3	72	56	5	WSW	0.08	8	WSW	65.3	65.5	65.5	30.149	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:41 AM	65.3	65.3	65.3	72	56	2	SSW	0.03	3	SSW	65.3	65.5	65.5	30.152	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:42 AM	65.3	65.3	65.3	73	56.4	5	NW	0.08	8	NW	65.3	65.5	65.5	30.152	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:43 AM	65.3	65.3	65.3	72	56	5	W	0.08	8	WSW	65.3	65.5	65.5	30.153	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:44 AM	65.3	65.3	65.3	73	56.4	4	W	0.07	8	WNW	65.3	65.5	65.5	30.155	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:45 AM	65.3	65.3	65.3	73	56.4	4	NW	0.07	6	W	65.3	65.5	65.5	30.153	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:46 AM	65.3	65.3	65.3	73	56.4	3	WSW	0.05	5	WSW	65.3	65.5	65.5	30.154	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:47 AM	65.3	65.3	65.3	72	56	5	S	0.08	8	SW	65.3	65.5	65.5	30.155	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:48 AM	65.3	65.3	65.3	73	56.4	4	WSW	0.07	7	SSW	65.3	65.5	65.5	30.153	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/26/2012	12:49 AM	65.3	65.3	65.3	72	56	3	S	0.05	6	W	65.3	65.5	65.5	30.155	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	24	1	100	1
9/26/2012	12:50 AM	65.3	65.3	65.3	72	56	5	S	0.08	9	W	65.3	65.5	65.5	30.154	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0759	22	1	95.7	1
9/26/2012	12:51 AM	65.4	65.4	65.3	72	56.1	3	WSW	0.05	6	WSW	65.4	65.6	65.6	30.151	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:52 AM	65.3	65.4	65.3	72	56	3	SW	0.05	6	W	65.3	65.5	65.5	30.151	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:53 AM	65.3	65.4	65.3	72	56	4	SSE	0.07	11	SSE	65.3	65.5	65.5	30.151	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:54 AM	65.3	65.3	65.3	72	56	5	W	0.08	7	SSW	65.3	65.5	65.5	30.148	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:55 AM	65.4	65.4	65.3	72	56.1	5	SW	0.08	8	SW	65.4	65.6	65.6	30.149	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:56 AM	65.3	65.4	65.3	72	56	4	W	0.07	7	W	65.3	65.5	65.5	30.148	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:57 AM	65.3	65.3	65.3	72	56	4	SW	0.07	7	S	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	12:58 AM	65.3	65.3	65.3	72	56	4	SW	0.07	8	SE	65.3	65.5	65.5	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	12:59 AM	65.3	65.3	65.3	72	56	3	SW	0.05	6	SW	65.3	65.5	65.5	30.149	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:00 AM	65.3	65.4	65.3	72	56	5	W	0.08	8	W	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:01 AM	65.3	65.3	65.3	72	56	2	S	0.03	4	NW	65.3	65.5	65.5	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:02 AM	65.3	65.3	65.3	72	56	4	SSW	0.07	6	SSW	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:03 AM	65.3	65.3	65.3	72	56	2	SE	0.03	5	W	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:04 AM	65.3	65.3	65.3	72	56	2	SW	0.03	4	SSW	65.3	65.5	65.5	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:05 AM	65.3	65.3	65.3	72	56	3	S	0.05	5	WSW	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:06 AM	65.3	65.3	65.3	72	56	4	WSW	0.07	6	W	65.3	65.5	65.5	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:07 AM	65.3	65.3	65.3	72	56	3	WSW	0.05	6	WSW	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:08 AM	65.3	65.3	65.3	72	56	3	SSW	0.05	9	SSE	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:09 AM	65.3	65.3	65.3	72	56	2	WSW	0.03	7	WSW	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:10 AM	65.3	65.3	65.3	72	56	5	SW	0.08	8	W	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:11 AM	65.3	65.4	65.3	72	56	2	S	0.03	3	WSW	65.3	65.5	65.5	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:12 AM	65.4	65.4	65.3	72	56.1	3	WSW	0.05	4	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:13 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	5	W	65.4	65.6	65.6	30.148	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:14 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	5	W	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:15 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	8	WSW	65.4	65.6	65.6	30.149	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:16 AM	65.4	65.4	65.4	72	56.1	4	SW	0.07	7	WSW	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:17 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:18 AM	65.4	65.4	65.4	72	56.1	3	SSW	0.05	7	S	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:19 AM	65.4	65.4	65.4	72	56.1	3	ESE	0.05	7	W	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:20 AM	65.4	65.5	65.4	72	56.1	6	W	0.1	10	W	65.4	65.6	65.6	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1

Meteorological Data
Equity IRM

9/26/2012	2:40 AM	65.6	65.6	65.5	71	55.9	3	SSW	0.05	6	SSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:41 AM	65.6	65.6	65.5	71	55.9	2	SW	0.03	5	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:42 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	8	WSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:43 AM	65.6	65.6	65.6	71	55.9	3	SW	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:44 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:45 AM	65.6	65.6	65.6	71	55.9	5	W	0.08	10	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:46 AM	65.6	65.6	65.6	71	55.9	2	SW	0.03	4	WSW	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:47 AM	65.6	65.6	65.6	72	56.3	4	SE	0.07	8	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:48 AM	65.6	65.6	65.6	72	56.3	2	SW	0.03	5	WSW	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:49 AM	65.6	65.6	65.6	72	56.3	4	W	0.07	7	W	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:50 AM	65.6	65.6	65.6	72	56.3	2	WSW	0.03	5	W	65.6	65.8	65.8	30.103	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:51 AM	65.6	65.6	65.6	72	56.3	1	WSW	0.02	3	WSW	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:52 AM	65.6	65.6	65.6	72	56.3	4	WSW	0.07	7	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:53 AM	65.6	65.6	65.6	72	56.3	2	SSE	0.03	4	SSE	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:54 AM	65.6	65.6	65.6	72	56.3	2	S	0.03	3	S	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:55 AM	65.6	65.6	65.6	72	56.3	3	S	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:56 AM	65.6	65.6	65.6	72	56.3	2	S	0.03	3	S	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:57 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	5	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:58 AM	65.6	65.6	65.6	72	56.3	4	S	0.07	7	NW	65.6	65.8	65.8	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	2:59 AM	65.7	65.7	65.6	72	56.4	5	WSW	0.08	8	W	65.7	66	66	30.106	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:00 AM	65.6	65.7	65.6	72	56.3	3	WSW	0.05	6	WSW	65.6	65.8	65.8	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:01 AM	65.7	65.7	65.6	72	56.4	3	SSW	0.05	6	SSW	65.7	66	66	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:02 AM	65.6	65.7	65.6	72	56.3	3	WSW	0.05	5	S	65.6	65.8	65.8	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:03 AM	65.7	65.7	65.6	72	56.4	2	SW	0.03	5	SW	65.7	66	66	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:04 AM	65.6	65.7	65.6	72	56.3	2	SW	0.03	3	SW	65.6	65.8	65.8	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:05 AM	65.7	65.7	65.6	72	56.4	1	SW	0.02	3	SW	65.7	66	66	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:06 AM	65.6	65.7	65.6	72	56.3	2	SSW	0.03	3	SSW	65.6	65.8	65.8	30.109	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/26/2012	3:07 AM	65.7	65.7	65.6	71	56	3	SW	0.05	5	SW	65.7	65.9	65.9	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:08 AM	65.7	65.7	65.6	72	56.4	4	SW	0.07	7	S	65.7	66	66	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:09 AM	65.7	65.7	65.7	72	56.4	2	S	0.03	7	S	65.7	66	66	30.107	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:10 AM	65.7	65.7	65.7	71	56	3	S	0.05	7	S	65.7	65.9	65.9	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:11 AM	65.7	65.7	65.7	71	56	4	W	0.07	8	W	65.7	65.9	65.9	30.108	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:12 AM	65.8	65.8	65.7	71	56.1	3	WSW	0.05	9	WSW	65.8	66	66	30.108	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:13 AM	65.8	65.8	65.7	71	56.1	4	WSW	0.07	7	WSW	65.8	66	66	30.108	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:14 AM	65.8	65.8	65.7	71	56.1	2	NNE	0.03	4	N	65.8	66	66	30.107	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:15 AM	65.8	65.8	65.8	71	56.1	1	ENE	0.02	3	ENE	65.8	66	66	30.105	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:16 AM	65.8	65.8	65.8	71	56.1	1	ENE	0.02	2	ENE	65.8	66	66	30.106	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:17 AM	65.8	65.8	65.8	71	56.1	1	E	0.02	5	E	65.8	66	66	30.106	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:18 AM	65.8	65.8	65.8	71	56.1	4	E	0.07	6	SW	65.8	66	66	30.106	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:19 AM	65.8	65.8	65.8	71	56.1	4	SSW	0.07	7	SSW	65.8	66	66	30.104	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:20 AM	65.9	65.9	65.8	71	56.2	4	SSW	0.07	8	W	65.9	66.1	66.1	30.103	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:21 AM	65.9	65.9	65.9	71	56.2	6	W	0.1	9	WNW	65.9	66.1	66.1	30.104	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:22 AM	65.9	65.9	65.9	71	56.2	5	SW	0.08	8	W	65.9	66.1	66.1	30.106	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:23 AM	65.9	65.9	65.9	71	56.2	4	WSW	0.07	9	S	65.9	66.1	66.1	30.106	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:24 AM	65.9	65.9	65.9	71	56.2	4	WSW	0.07	7	WSW	65.9	66.1	66.1	30.106	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:25 AM	65.9	66	65.9	71	56.2	3	WSW	0.05	6	WSW	65.9	66.1	66.1	30.106	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:26 AM	66	66	65.9	71	56.3	2	SSW	0.03	4	SW	66	66.3	66.3	30.104	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:27 AM	66	66	65.9	71	56.3	3	SW	0.05	6	S	66	66.3	66.3	30.104	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:28 AM	66	66	65.9	70	55.9	2	S	0.03	6	S	66	66.2	66.2	30.105	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:29 AM	65.9	66	65.9	71	56.2	4	WNW	0.07	8	SSE	65.9	66.1	66.1	30.103	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:30 AM	66	66	65.9	71	56.3	2	SW	0.03	4	SW	66	66.3	66.3	30.105	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	22	1	95.7	1
9/26/2012	3:31 AM	66	66	66	71	56.3	3	WSW	0.05	5	SW	66	66.3	66.3	30.103	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:32 AM	66	66	66	70	55.9	4	S	0.07	7	SW	66	66.2	66.2	30.103	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:33 AM	66	66	66	70	55.9	5	S	0.08	7	S	66	66.2	66.2	30.101	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:34 AM	66	66	66	70	55.9	3	SSW	0.05	7	S	66	66.2	66.2	30.103	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:35 AM	66.1	66.1	66	70	56	5	WSW	0.08	9	WSW	66.1	66.3	66.3	30.102	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:36 AM	66.1	66.1	66.1	70	56	3	SW	0.05	6	S	66.1	66.3	66.3	30.1	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:37 AM	66.1	66.1	66.1	71	56.4	4	S	0.07	9	SSE	66.1	66.4	66.4	30.099	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	22	1	95.7	1
9/26/2012	3:38 AM	66.1	66.1	66.1	71	56.4	4	W	0.07	6	W	66.1	66.4	66.4	30.099	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:39 AM	66.1	66.1	66.1	71	56.4	1	SSW	0.02	7	SW	66.1	66.4	66.4	30.099	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	22	1	95.7	1
9/26/2012	3:40 AM	66.1	66.1	66.1	71	56.4	5	SW	0.08	8	WSW	66.1	66.4	66.4	30.096	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:41 AM	66.1	66.1	66.1	71	56.4	3	WSW	0.05	6	NW	66.1	66.4	66.4	30.097	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:42 AM	66.1	66.1	66.1	71	56.4	2	SSW	0.03	3	WSW	66.1	66.4	66.4	30.096	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:43 AM	66.1	66.1	66	71	56.4	4	SSW	0.07	8	W	66.1	66.4	66.4	30.095	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:44 AM	66	66	66	72	56.7	3	SW	0.05	8	W	66	66.3	66.3	30.094	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:45 AM	66	66	66	72	56.7	4	W	0.07	6	SW	66	66.3	66.3	30.095	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:46 AM	65.9	66	65.9	72	56.6	3	S	0.05	5	WSW	65.9	66.2	66.2	30.094	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:47 AM	65.9	66	65.9	72	56.6	6	W	0.1	13	W	65.9	66.2	66.2	30.094	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:48 AM	65.9	65.9	65.9	72	56.6	3	S	0.05	13	WNW	65.9	66.2	66.2	30.093	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:49 AM	65.9	65.9	65.9	73	57	4	W	0.07	7	W	65.9	66.3	66.3	30.094	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:50 AM	65.8	65.9	65.8	72	56.5	3	SW	0.05	6	SW	65.8	66.1	66.1	30.094	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	3:51 AM	65.8	65.8	65.8	73	56.9	4	SSW	0.07	8	WSW	65.8	66.1	66.1	30.091	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	3:52 AM	65.8	65.8	65.8	73	56.9	3	S	0.05	6	W	65.8	66.1	66.1	30.091	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:53 AM	65.8	65.8	65.8	73	56.9	3	W	0.05	5	W	65.8	66.1	66.1	30.091	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:54 AM	65.7	65.8	65.7	73	56.8	3	SSW	0.05	5	S	65.7	66	66	30.091	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:55 AM	65.7	65.7	65.7	73	56.8	2	SSW	0.03	4	S	65.7	66	66	30.088	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	3:56 AM	65.7	65.7	65.7	73	56.8	4	S	0.07	7	W	65.7	66	66	30.09	0	0	0	0	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	3:57 AM	65.7	65.7	65.7	73	56.8	4	W	0.07	10	WSW	65.7	66	66	30.088	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0757	24	1	100	1
9/26/2012	3:58 AM	65.6	65.7	65.6	73	56.7	3	WNW	0.05	6	SE	65.6	65.9	65.9	30.088	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	3:59 AM	65.6	65.6	65.6	73	56.7	2	S	0.03	6	WSW	65.6	65.9	65.9	30.088	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0757	24	1	100	1
9/26/2012	4:00 AM	65.6	65.6	65.6	73	56.7	2	W	0.03	3	W	65.6	65.9	65.9	30.086	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	4:01 AM	65.6	65.6	65.6	73	56.7	3	SSE	0.05	8	WSW	65.6	65.9	65.9	30.086	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	4:02 AM	65.6	65.6	65.6	73	56.7	4	W	0.07	7	SSW	65.6	65.9	65.9	30.084	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	24	1	100	1
9/26/2012	4:03 AM	65.6	65.6	65.6	73	56.7	2	S	0.03	4	S	65.6	65.9	65.9	30.084	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:04 AM	65.6	65.6	65.6	73	56.7	2	S	0.03	5	S	65.6	65.9	65.9	30.084	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:05 AM	65.6	65.6	65.6	73	56.7	3	WSW	0.05	5	WSW	65.6	65.9	65.9	30.084	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:06 AM	65.6	65.6	65.6	73	56.7	2	S	0.03	4	S	65.6	65.9	65.9	30.082	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:07 AM	65.6	65.6	65.6	73	56.7	4	S	0.07	9	SSW	65.6	65.9	65.9	30.081	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	24	1	100	1
9/26/2012	4:08 AM	65.6	65.6	65.6	73	56.7	4	SW	0.07	6	NW	65.6	65.9	65.9	30.082	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:09 AM	65.6	65.6	65.6	73	56.7	4	SSW	0.07	7	WSW	65.6	65.9	65.9	30.081	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0758	24	1	100	1
9/26/2012	4:10 AM	65.7	65.7	65.6	73	56.8	4	SSW	0.07	7	SSW	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:11 AM	65.7	65.7	65.7	73	56.8	2	SSW	0.03	3	SSW	65.7	66	66	30.082	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0758	24	1	100	1
9/26/2012	4:12 AM	65.7	65.7	65.7	72	56.4	5	WSW	0.08	9	W	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:13 AM	65.7	65.7	65.7	73	56.8	3	SSW	0.05	5	SSW	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	22	1	95.7	1
9/26/2012	4:14 AM	65.8	65.8	65.7	73	56.9	4	SSE	0.07	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:15 AM	65.8	65.8	65.8	72	56.5	5	S	0.08	9	SSW	65.8	66.1	66.1	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:16 AM	65.8	65.8	65.8	72	56.5	3	S	0.05	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:17 AM	65.8	65.8	65.8	73	56.9	2	S	0.03	4	S	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:18 AM	65.9	65.9	65.8	73	57	2	S	0.03	4	S	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:19 AM	65.9	65.9	65.9	73	57	1	S	0.02	2	S	65.9	66.3	66.3	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:20 AM	65.9	65.9	65.9	73	57	5	SSE	0.08	7	SSW	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:21 A

Meteorological Data
Equity IRM

9/26/2012	5:40 AM	67	67	67	71	57.3	4	SW	0.07	6	WSW	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:41 AM	66.9	67	66.9	71	57.2	3	S	0.05	6	SSW	66.9	67.3	67.3	30.078	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:42 AM	67	67	67	71	57.3	3	SSW	0.05	7	SE	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:43 AM	67	67	67	71	57.3	5	SSW	0.08	11	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:44 AM	67	67	67	71	57.3	2	WSW	0.03	4	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:45 AM	67	67	67	71	57.3	5	SW	0.08	8	S	67	67.5	67.5	30.08	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:46 AM	67	67	67	71	57.3	2	S	0.03	4	S	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	22	1	95.7	1
9/26/2012	5:47 AM	67	67	67	71	57.3	3	SSW	0.05	5	S	67	67.5	67.5	30.082	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:48 AM	67	67	67	71	57.3	4	W	0.07	7	W	67	67.5	67.5	30.083	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:49 AM	67	67	67	71	57.3	4	S	0.07	6	SSW	67	67.5	67.5	30.086	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:50 AM	67	67	67	71	57.3	6	S	0.1	10	S	67	67.5	67.5	30.087	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:51 AM	67	67	67	71	57.3	4	SSW	0.07	6	SSW	67	67.5	67.5	30.085	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:52 AM	67	67	67	71	57.3	5	WSW	0.08	9	WSW	67	67.5	67.5	30.084	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:53 AM	67	67	67	71	57.3	3	S	0.05	5	SSE	67	67.5	67.5	30.084	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	5:54 AM	67	67	67	71	57.3	3	SSW	0.05	5	SSW	67	67.5	67.5	30.087	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:55 AM	67	67	67	71	57.3	2	W	0.03	4	W	67	67.5	67.5	30.086	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	5:56 AM	67	67.1	67	71	57.3	3	S	0.05	5	S	67	67.5	67.5	30.084	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:57 AM	67.1	67.1	67	71	57.4	1	SSW	0.02	3	SSW	67.1	67.6	67.6	30.085	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	5:58 AM	67	67	67	71	57.3	3	SSW	0.05	5	SSW	67	67.5	67.5	30.085	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:59 AM	67.1	67.1	67	71	57.4	4	WSW	0.07	7	SSE	67.1	67.6	67.6	30.086	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	6:00 AM	67.1	67.1	67	71	57.4	3	SSW	0.05	7	WSW	67.1	67.6	67.6	30.087	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	24	1	100	1
9/26/2012	6:01 AM	67	67.1	67	71	57.3	2	SSW	0.03	4	SSE	67	67.5	67.5	30.085	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	23	1	100	1
9/26/2012	6:02 AM	67.1	67.1	67	71	57.4	3	NW	0.05	7	NW	67.1	67.6	67.6	30.084	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	24	1	100	1
9/26/2012	6:03 AM	67.1	67.1	67	71	57.4	4	SSW	0.07	6	W	67.1	67.6	67.6	30.085	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	23	1	100	1
9/26/2012	6:04 AM	67.1	67.1	67	71	57.4	6	SW	0.1	11	WSW	67.1	67.6	67.6	30.084	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	22	1	95.7	1
9/26/2012	6:05 AM	67.1	67.1	67	71	57.4	5	SSW	0.08	9	W	67.1	67.6	67.6	30.085	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	24	1	100	1
9/26/2012	6:06 AM	67.1	67.1	67.1	71	57.4	5	SW	0.08	11	W	67.1	67.6	67.6	30.085	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	22	1	95.7	1
9/26/2012	6:07 AM	67.1	67.1	67.1	71	57.4	4	WSW	0.07	5	W	67.1	67.6	67.6	30.085	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	23	1	100	1
9/26/2012	6:08 AM	67.1	67.2	67.1	71	57.4	3	W	0.05	7	W	67.1	67.6	67.6	30.086	0	0	0	0.001	63	48	43	60.9	9.03	0.0756	23	1	100	1
9/26/2012	6:09 AM	67.2	67.2	67.1	71	57.5	4	S	0.07	7	SSW	67.2	67.7	67.7	30.086	0	0	0	0.002	63	48	43	60.9	9.03	0.0756	22	1	95.7	1
9/26/2012	6:10 AM	67.2	67.2	67.2	70	57.1	4	SSW	0.07	8	WSW	67.2	67.6	67.6	30.086	0	0	0	0.002	63	48	43	60.9	9.03	0.0756	24	1	100	1
9/26/2012	6:11 AM	67.2	67.2	67.2	71	57.5	2	S	0.03	4	SSW	67.2	67.7	67.7	30.087	0	0	0	0.002	63	48	43	60.9	9.03	0.0756	22	1	95.7	1
9/26/2012	6:12 AM	67.2	67.2	67.2	71	57.5	2	W	0.03	5	SSW	67.2	67.7	67.7	30.088	0	0	0	0.002	63	48	43	60.9	9.03	0.0756	24	1	100	1
9/26/2012	6:13 AM	67.2	67.2	67.2	71	57.5	2	S	0.03	3	SSW	67.2	67.7	67.7	30.087	0	0	0	0.002	63	48	43	60.9	9.03	0.0756	21	1	91.3	1
9/26/2012	6:14 AM	67.2	67.2	67.2	71	57.5	3	S	0.05	6	SSE	67.2	67.7	67.7	30.087	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:15 AM	67.2	67.2	67.2	70	57.1	3	WNW	0.05	4	WNW	67.2	67.6	67.6	30.087	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	21	1	91.3	1
9/26/2012	6:16 AM	67.2	67.2	67.2	70	57.1	1	S	0.02	3	S	67.2	67.6	67.6	30.085	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	22	1	95.7	1
9/26/2012	6:17 AM	67.2	67.2	67.2	70	57.1	3	WNW	0.05	5	WNW	67.2	67.6	67.6	30.084	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:18 AM	67.2	67.2	67.2	70	57.1	4	WSW	0.07	8	WSW	67.2	67.6	67.6	30.084	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	23	1	100	1
9/26/2012	6:19 AM	67.2	67.2	67.2	70	57.1	5	W	0.08	9	SSW	67.2	67.6	67.6	30.087	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:20 AM	67.2	67.2	67.2	70	57.1	5	W	0.08	11	W	67.2	67.6	67.6	30.086	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	23	1	100	1
9/26/2012	6:21 AM	67.2	67.2	67.2	70	57.1	4	WSW	0.07	6	S	67.2	67.6	67.6	30.086	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	23	1	100	1
9/26/2012	6:22 AM	67.2	67.3	67.2	70	57.1	4	S	0.07	7	SSW	67.2	67.6	67.6	30.086	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:23 AM	67.3	67.3	67.2	70	57.2	3	W	0.05	6	W	67.3	67.8	67.8	30.088	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	23	1	100	1
9/26/2012	6:24 AM	67.3	67.3	67.3	70	57.2	4	SW	0.07	9	W	67.3	67.8	67.8	30.089	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:25 AM	67.3	67.3	67.3	70	57.2	6	W	0.1	8	WSW	67.3	67.8	67.8	30.089	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	23	1	100	1
9/26/2012	6:26 AM	67.4	67.4	67.3	70	57.3	5	SSW	0.08	10	SSW	67.4	67.9	67.9	30.087	0	0	0	0.002	63.2	48	43.2	61.2	9.02	0.0756	24	1	100	1
9/26/2012	6:27 AM	67.4	67.4	67.4	70	57.3	5	S	0.08	9	SSW	67.4	67.9	67.9	30.088	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:28 AM	67.4	67.4	67.4	70	57.3	3	SW	0.05	8	NW	67.4	67.9	67.9	30.088	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:29 AM	67.4	67.4	67.4	70	57.3	7	SSW	0.12	11	SW	67.4	67.9	67.9	30.086	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	24	1	100	1
9/26/2012	6:30 AM	67.4	67.4	67.4	70	57.3	5	SSW	0.08	10	S	67.4	67.9	67.9	30.087	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:31 AM	67.4	67.4	67.4	71	57.7	5	SSW	0.08	9	W	67.4	67.9	67.9	30.088	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	24	1	100	1
9/26/2012	6:32 AM	67.4	67.4	67.4	71	57.7	4	SW	0.07	5	S	67.4	67.9	67.9	30.087	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:33 AM	67.4	67.4	67.4	71	57.7	5	SW	0.08	9	WSW	67.4	67.9	67.9	30.087	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:34 AM	67.4	67.4	67.4	71	57.7	7	SW	0.12	11	W	67.4	67.9	67.9	30.085	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	24	1	100	1
9/26/2012	6:35 AM	67.4	67.4	67.4	71	57.7	6	WSW	0.1	10	WSW	67.4	67.9	67.9	30.087	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:36 AM	67.5	67.5	67.4	71	57.8	3	S	0.05	5	WSW	67.5	68.1	68.1	30.086	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	24	1	100	1
9/26/2012	6:37 AM	67.4	67.5	67.4	71	57.7	2	WSW	0.03	3	WSW	67.4	67.9	67.9	30.084	0	0	0	0.002	63.3	48	43.3	61.3	9.02	0.0756	23	1	100	1
9/26/2012	6:38 AM	67.4	67.4	67.4	71	57.7	3	S	0.05	7	SSW	67.4	67.9	67.9	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:39 AM	67.4	67.4	67.4	71	57.7	5	S	0.08	9	SSE	67.4	67.9	67.9	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	22	1	95.7	1
9/26/2012	6:40 AM	67.4	67.4	67.4	71	57.7	5	SSE	0.08	8	W	67.4	67.9	67.9	30.085	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:41 AM	67.4	67.4	67.4	71	57.7	2	WSW	0.03	4	W	67.4	67.9	67.9	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	24	1	100	1
9/26/2012	6:42 AM	67.3	67.4	67.3	71	57.6	5	S	0.08	8	SW	67.3	67.8	67.8	30.087	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:43 AM	67.3	67.4	67.3	71	57.6	4	SSE	0.07	10	S	67.3	67.8	67.8	30.082	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0755	24	1	100	1
9/26/2012	6:44 AM	67.3	67.3	67.3	71	57.6	5	S	0.08	9	SW	67.3	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	21	1	91.3	1
9/26/2012	6:45 AM	67.3	67.3	67.3	71	57.6	6	SSW	0.1	9	SSE	67.3	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:46 AM	67.3	67.3	67.3	71	57.6	5	WSW	0.08	8	SW	67.3	67.8	67.8	30.082	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0755	24	1	100	1
9/26/2012	6:47 AM	67.3	67.3	67.2	71	57.6	4	SSW	0.07	6	NW	67.3	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:48 AM	67.2	67.3	67.2	71	57.5	4	WNW	0.07	8	WSW	67.2	67.7	67.7	30.083	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0755	24	1	100	1
9/26/2012	6:49 AM	67.3	67.3	67.2	71	57.6	4	SW	0.07	7	WSW	67.3	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:50 AM	67.2	67.3	67.2	72	57.9	3	ESE	0.05	5	SSE	67.2	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	24	1	100	1
9/26/2012	6:51 AM	67.2	67.3	67.2	72	57.9	2	SSW	0.03	5	SW	67.2	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:52 AM	67.2	67.3	67.2	72	57.9	3	WSW	0.05	6	SW	67.2	67.8	67.8	30.085	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	22	1	95.7	1
9/26/2012	6:53 AM	67.2	67.3	67.2	72	57.9	3	S	0.05	5	SW	67.2	67.8	67.8	30.086	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	24	1	100	1
9/26/2012	6:54 AM	67.2	67.2	67.2	72	57.9	6	W	0.1	10	WSW	67.2	67.8	67.8	30.084	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	23	1	100	1
9/26/2012	6:55 AM	67.2	67.2	67.2	72	57.9	5	W	0.08	9	W	67.2	67.8	67.8	30.087	0	0	0	0.002	63.5	48	43.4	61.5	9.01	0.0756	24	1	100	1
9/26/2012	6:56 AM	67.3	67.3	67.2	72	58	4	S	0.07	7	SSW	67.3	67.9	67.9	30.088	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	21	1	91.3	1
9/26/2012	6:57 AM	67.3	67.3	67.3	72	58	2	SW	0.03	5	NNW	67.3	67.9	67.9	30.087	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	6:58 AM	67.4	67.4	67.3	72	58.1	4	WNW	0.07	7	WNW	67.4	68	68	30.086	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	6:59 AM	67.4	67.4	67.4	71	57.7	7	SW	0.12	12	SW	67.4	67.9	67.9	30.087	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	22	1	95.7	1
9/26/2012	7:00 AM	67.4	67.4	67.4	71	57.7	4	S	0.07	8	W	67.4	67.9	67.9	30.086	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	24	1	100	1
9/26/2012	7:01 AM	67.4	67.5	67.4	71	57.7	5	NNW	0.08	10	WSW	67.4	67.9	67.9	30.088	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	21	1	91.3	1
9/26/2012	7:02 AM	67.4	67.5	67.4	72	58.1	8	WSW	0.13	14	WSW	66.8	68	67.4	30.088	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	7:03 AM	67.5	67.5	67.4	71	57.8	6	S	0.1	8	S	67.5	68.1	68.1	30.088	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	7:04 AM	67.5	67.5	67.4	71	57.8	4	SSW	0.07	14	WSW	67.5	68.1	68.1	30.087	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	7:05 AM	67.5	67.5	67.4	72	58.2	3	SSW	0.05	5	WNW	67.5	68.1	68.1	30.086	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	7:06 AM	67.4	67.4	67.4	72	58.1	3	SSW	0.05	8	S	67.4	68	68	30.087	0	0	0	0.002	63.6	48	43.5	61.6	9.01	0.0755	23	1	100	1
9/26/2012	7:07 AM	67.4	67.4	67.4	72	58.1	5	SSW	0.08	9	S	67.4	68	68	30.086	0	0	0	0.002	63.6	50	44.6	61.8	9.38	0.0755	23	1	100	1
9/26/2012	7:08 AM	67.4	67.4	67.4	72	58.1	2	S	0.03	4	S	67.4	68	68	30.084	0	0	0	0.002	63.6	52	45.6	62	9.75	0.0755	22	1	95.7	1
9/26/2012	7:09 AM	67.4	67.4	67.4	72	58.1	3	SSW	0.05	7	SSW	67.4	68	68	30.084	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	23	1	100	1
9/26/2012	7:10 AM	67.4	67.4	67.4	72	58.1	3	SSE	0.05	4	SW	67.4	68	68	30.082	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	24	1	100	1
9/26/2012	7:11 AM	67.4	67.4	67.4	72	58.1	2	SW	0.03	4	WSW	67.4	68	68	30.083	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	23	1	100	1
9/26/2012	7:12 AM	67.4	67.4	67.3	72	58.1	3	SSW	0.05	7	WNW	67.4	68	68	30.082	0	0	0	0.002	64	52	46	62.4	9.75	0.0754	24	1	100	1
9/26/2012	7:13 AM	67.4	67.4	67.3	72	58.1	6	W	0.1	10	SW	67.4	68	68	30.087	0	0	0	0.002	64	54	47	62.6	10.15	0.0754	23	1	100	1
9/26/2012	7:14 AM	67.4	67.4	67.3	72	58.1	5	WSW	0.08	10	NNE	67.4	68	68	30.089	0	0	0	0.002	64	55	47.5	62.7	10.25	0.0754	23	1	100	1
9/26/2012	7:15 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	7	WSW	67.4	68	68	30.087	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:16 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	6	W	67.4	68	68	30.088	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	23	1	100	1
9/26/2012	7:17 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	8	W	67.4	68	68	30.089	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:18 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	7	WSW	67.4	68	68	30.09	0	0	0	0.002	64.3	56	48.3	63.1	10.45	0.0753	23	1	100	1
9/26/2012	7:19 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	8	WSW	67.4	68	68	30.092	0	0	0	0.002	64.3	57	48.7	63.2	10.64	0.0753	24	1	100	1
9/26/2012	7:20 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	6	SSW	67.4	68	68	30.093	0	0	0	0.002	64.3	56	48.

Meteorological Data
Equity IRM

9/26/2012	8:40 AM	67.6	67.6	67.6	72	58.2	5	SW	0.08	7	WSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	21	1	91.3	1
9/26/2012	8:41 AM	67.6	67.6	67.6	72	58.2	4	S	0.07	7	SSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:42 AM	67.6	67.6	67.6	72	58.2	2	S	0.03	7	SSW	67.6	68.2	68.2	30.094	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	20	1	87	1
9/26/2012	8:43 AM	67.6	67.6	67.6	72	58.2	4	SSE	0.07	7	SE	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	22	1	95.7	1
9/26/2012	8:44 AM	67.7	67.7	67.6	73	58.7	3	W	0.05	7	SW	67.7	68.4	68.4	30.094	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	24	1	100	1
9/26/2012	8:45 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	5	W	67.7	68.4	68.4	30.094	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	22	1	95.7	1
9/26/2012	8:46 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	11	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	24	1	100	1
9/26/2012	8:47 AM	67.7	67.7	67.7	72	58.3	4	WSW	0.07	8	WSW	67.7	68.4	68.4	30.091	0	0	0	0.002	67	65	54.8	67	11.91	0.0747	22	1	95.7	1
9/26/2012	8:48 AM	67.7	67.7	67.7	73	58.7	2	S	0.03	5	S	67.7	68.4	68.4	30.091	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:49 AM	67.7	67.7	67.7	73	58.7	2	SSW	0.03	4	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:50 AM	67.7	67.7	67.7	73	58.7	3	WSW	0.05	6	SE	67.7	68.4	68.4	30.092	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:51 AM	67.8	67.8	67.7	72	58.4	4	SSW	0.07	7	WSW	67.8	68.5	68.5	30.092	0	0	0	0.002	67	63	54	66.8	11.61	0.0747	23	1	100	1
9/26/2012	8:52 AM	67.8	67.8	67.7	72	58.4	6	WSW	0.1	11	WSW	67.8	68.5	68.5	30.092	0	0	0	0.002	67.2	63	54.2	67	11.61	0.0747	22	1	95.7	1
9/26/2012	8:53 AM	67.7	67.8	67.7	72	58.3	5	SW	0.08	8	WSW	67.7	68.4	68.4	30.092	0	0	0	0.002	67.2	64	54.6	67.1	11.71	0.0747	24	1	100	1
9/26/2012	8:54 AM	67.7	67.7	67.7	72	58.3	5	WSW	0.08	9	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67.2	63	54.2	67	11.61	0.0747	23	1	100	1
9/26/2012	8:55 AM	67.7	67.7	67.7	72	58.3	4	SSW	0.07	6	W	67.7	68.4	68.4	30.092	0	0	0	0.002	67.4	63	54.4	67.3	11.6	0.0747	23	1	100	1
9/26/2012	8:56 AM	67.7	67.7	67.7	73	58.7	4	SW	0.07	6	WSW	67.7	68.4	68.4	30.09	0	0	0	0.002	67.4	63	54.4	67.3	11.6	0.0746	24	1	100	1
9/26/2012	8:57 AM	67.7	67.7	67.7	73	58.7	5	WSW	0.08	7	W	67.7	68.4	68.4	30.092	0	0	0	0.002	67.4	64	54.8	67.4	11.7	0.0746	22	1	95.7	1
9/26/2012	8:58 AM	67.7	67.7	67.7	73	58.7	3	SSE	0.05	7	SSE	67.7	68.4	68.4	30.091	0	0	0	0.002	67.4	63	54.4	67.3	11.6	0.0747	24	1	100	1
9/26/2012	8:59 AM	67.8	67.8	67.7	73	58.8	4	SW	0.07	5	SW	67.8	68.5	68.5	30.094	0	0	0	0.002	67.5	62	54	67.3	11.4	0.0747	23	1	100	1
9/26/2012	9:00 AM	67.9	67.9	67.8	73	58.9	1	WSW	0.02	3	W	67.9	68.7	68.7	30.092	0	0	0	0.002	67.5	63	54.5	67.4	11.6	0.0746	23	1	100	1
9/26/2012	9:01 AM	67.9	67.9	67.8	72	58.5	3	WSW	0.05	4	WSW	67.9	68.6	68.6	30.091	0	0	0	0.002	67.5	63	54.5	67.4	11.6	0.0746	24	1	100	1
9/26/2012	9:02 AM	67.9	67.9	67.9	72	58.5	2	WSW	0.03	5	W	67.9	68.6	68.6	30.093	0	0	0	0.002	67.7	62	54.2	67.5	11.4	0.0746	23	1	100	1
9/26/2012	9:03 AM	67.9	67.9	67.9	73	58.9	2	S	0.03	4	S	67.9	68.7	68.7	30.091	0	0	0	0.002	67.7	63	54.6	67.6	11.6	0.0746	24	1	100	1
9/26/2012	9:04 AM	68	68	68	73	59	1	S	0.02	4	SSW	68	68.8	68.8	30.093	0	0	0	0.002	67.7	63	54.6	67.6	11.6	0.0746	23	1	100	1
9/26/2012	9:05 AM	68	68	68	72	58.6	4	S	0.07	6	W	68	68.7	68.7	30.092	0	0	0	0.002	67.9	63	54.8	67.9	11.59	0.0746	24	1	100	1
9/26/2012	9:06 AM	68.1	68.1	68	72	58.7	2	SW	0.03	4	SW	68.1	68.8	68.8	30.091	0	0	0	0.002	67.9	62	54.4	67.8	11.39	0.0746	22	1	95.7	1
9/26/2012	9:07 AM	68.1	68.1	68.1	73	59.1	1	S	0.02	4	S	68.1	68.9	68.9	30.09	0	0	0	0.002	67.9	62	54.4	67.8	11.39	0.0746	23	1	100	1
9/26/2012	9:08 AM	68.1	68.1	68.1	72	58.7	3	S	0.05	9	W	68.1	68.8	68.8	30.091	0	0	0	0.002	68	62	54.5	67.9	11.39	0.0746	24	1	100	1
9/26/2012	9:09 AM	68.1	68.1	68.1	72	58.7	4	SSE	0.07	9	S	68.1	68.8	68.8	30.092	0	0	0	0.002	68	63	54.9	68	11.59	0.0745	23	1	100	1
9/26/2012	9:10 AM	68.1	68.1	68.1	72	58.7	6	W	0.1	10	WNW	68.1	68.8	68.8	30.089	0	0	0	0.002	68	63	54.9	68	11.59	0.0745	23	1	100	1
9/26/2012	9:11 AM	68.1	68.1	68	72	58.7	4	W	0.07	9	ESE	68.1	68.8	68.8	30.09	0	0	0	0.002	68	63	54.9	68	11.59	0.0745	23	1	100	1
9/26/2012	9:12 AM	68	68.1	68	72	58.6	4	WSW	0.07	9	W	68	68.7	68.7	30.092	0	0	0	0.002	68.2	64	55.6	68.2	11.69	0.0745	23	1	100	1
9/26/2012	9:13 AM	68	68	68	72	58.6	7	WSW	0.12	10	W	68	68.7	68.7	30.093	0	0	0	0.002	68.2	63	55.1	68.1	11.59	0.0745	24	1	100	1
9/26/2012	9:14 AM	67.9	68	67.9	72	58.5	5	W	0.08	8	W	67.9	68.6	68.6	30.094	0	0	0	0.002	68.2	65	56	68.3	11.89	0.0745	23	1	100	1
9/26/2012	9:15 AM	67.9	67.9	67.9	73	58.9	4	WSW	0.07	6	SW	67.9	68.7	68.7	30.095	0	0	0	0.002	68.4	64	55.7	68.4	11.68	0.0745	24	1	100	1
9/26/2012	9:16 AM	67.9	67.9	67.9	73	58.9	5	S	0.08	8	SSE	67.9	68.7	68.7	30.095	0	0	0	0.002	68.4	64	55.7	68.4	11.68	0.0745	23	1	100	1
9/26/2012	9:17 AM	67.9	67.9	67.9	73	58.9	5	WSW	0.08	9	W	67.9	68.7	68.7	30.097	0	0	0	0.002	68.4	63	55.3	68.3	11.58	0.0745	24	1	100	1
9/26/2012	9:18 AM	67.9	67.9	67.9	73	58.9	4	W	0.07	7	W	67.9	68.7	68.7	30.095	0	0	0	0.002	68.5	63	55.4	68.4	11.58	0.0745	23	1	100	1
9/26/2012	9:19 AM	67.9	67.9	67.9	73	58.9	6	W	0.1	11	S	67.9	68.7	68.7	30.097	0	0	0	0.002	68.5	63	55.4	68.4	11.58	0.0745	23	1	100	1
9/26/2012	9:20 AM	67.9	67.9	67.9	73	58.9	4	NNW	0.07	7	WSW	67.9	68.7	68.7	30.098	0	0	0	0.002	68.5	64	55.8	68.4	11.68	0.0745	24	1	100	1
9/26/2012	9:21 AM	67.9	67.9	67.9	73	58.9	3	WSW	0.05	5	SSW	67.9	68.7	68.7	30.099	0	0	0	0.002	68.7	63	55.6	68.5	11.58	0.0744	23	1	100	1
9/26/2012	9:22 AM	67.9	67.9	67.9	73	58.9	3	WSW	0.05	7	WSW	67.9	68.7	68.7	30.101	0	0	0	0.002	68.7	63	55.6	68.5	11.58	0.0744	24	1	100	1
9/26/2012	9:23 AM	67.9	67.9	67.9	73	58.9	5	SW	0.08	8	W	67.9	68.7	68.7	30.1	0	0	0	0.002	68.7	63	55.6	68.5	11.58	0.0744	23	1	100	1
9/26/2012	9:24 AM	67.9	67.9	67.9	73	58.9	6	SSE	0.1	12	W	67.9	68.7	68.7	30.098	0	0	0	0.002	68.7	63	55.6	68.5	11.58	0.0744	23	1	100	1
9/26/2012	9:25 AM	67.9	67.9	67.9	73	58.9	3	SSW	0.05	7	W	67.9	68.7	68.7	30.099	0	0	0	0.002	68.9	63	55.8	68.6	11.57	0.0744	24	1	100	1
9/26/2012	9:26 AM	67.9	67.9	67.9	73	58.9	4	SSE	0.07	7	SSE	67.9	68.7	68.7	30.097	0	0	0	0.002	68.9	63	55.8	68.6	11.57	0.0744	22	1	95.7	1
9/26/2012	9:27 AM	67.9	68	67.9	73	58.9	4	SSE	0.07	9	W	67.9	68.7	68.7	30.097	0	0	0	0.002	68.9	63	55.8	68.6	11.57	0.0744	24	1	100	1
9/26/2012	9:28 AM	67.9	68	67.9	73	58.9	6	SSW	0.1	12	WSW	67.9	68.7	68.7	30.097	0	0	0	0.002	68.9	62	55.3	68.5	11.37	0.0744	23	1	100	1
9/26/2012	9:29 AM	67.9	67.9	67.9	73	58.9	5	SSW	0.08	8	SSE	67.9	68.7	68.7	30.097	0	0	0	0.002	69	63	55.9	68.7	11.57	0.0744	24	1	100	1
9/26/2012	9:30 AM	67.9	67.9	67.9	73	58.9	4	SSE	0.07	6	SSE	67.9	68.7	68.7	30.099	0	0	0	0.002	69	63	55.9	68.7	11.57	0.0744	23	1	100	1
9/26/2012	9:31 AM	67.9	67.9	67.9	73	58.9	5	SSE	0.08	10	SSW	67.9	68.7	68.7	30.098	0	0	0	0.002	69	64	56.3	68.8	11.67	0.0744	23	1	100	1
9/26/2012	9:32 AM	67.9	67.9	67.9	73	58.9	6	WNW	0.1	12	WSW	67.9	68.7	68.7	30.1	0	0	0	0.002	69	63	55.9	68.7	11.57	0.0744	23	1	100	1
9/26/2012	9:33 AM	67.9	67.9	67.9	73	58.9	3	WNW	0.05	6	W	67.9	68.7	68.7	30.102	0	0	0	0.002	69	63	55.9	68.7	11.57	0.0744	23	1	100	1
9/26/2012	9:34 AM	67.9	67.9	67.9	73	58.9	4	WNW	0.07	7	WSW	67.9	68.7	68.7	30.102	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0744	22	1	95.7	1
9/26/2012	9:35 AM	67.9	67.9	67.9	73	58.9	5	SW	0.08	9	WSW	67.9	68.7	68.7	30.101	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0744	22	1	95.7	1
9/26/2012	9:36 AM	67.9	67.9	67.9	73	58.9	6	WSW	0.1	10	WSW	67.9	68.7	68.7	30.098	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:37 AM	67.9	67.9	67.9	73	58.9	5	SE	0.08	13	SSE	67.9	68.7	68.7	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:38 AM	67.9	67.9	67.9	73	58.9	5	S	0.08	8	SE	67.9	68.7	68.7	30.096	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:39 AM	67.9	67.9	67.9	73	58.9	2	SSW	0.03	5	S	67.9	68.7	68.7	30.099	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:40 AM	67.9	67.9	67.9	73	58.9	5	WSW	0.08	9	SW	67.9	68.7	68.7	30.101	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0744	23	1	100	1
9/26/2012	9:41 AM	67.9	67.9	67.8	73	58.9	3	W	0.05	5	W	67.9	68.7	68.7	30.103	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0744	22	1	95.7	1
9/26/2012	9:42 AM	67.9	67.9	67.9	73	58.9	3	SW	0.05	6	WSW	67.9	68.7	68.7	30.102	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0744	23	1	100	1
9/26/2012	9:43 AM	67.9	67.9	67.8	73	58.9	5	SSW	0.08	7	SSW	67.9	68.7	68.7	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:44 AM	67.9	67.9	67.8	73	58.9	5	WSW	0.08	10	W	67.9	68.7	68.7	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:45 AM	67.9	67.9	67.8	73	58.9	4	WSW	0.07	9	W	67.9	68.7	68.7	30.096	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:46 AM	67.9	67.9	67.9	73	58.9	5	S	0.08	12	W	67.9	68.7	68.7	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:47 AM	67.9	67.9	67.9	73	58.9	5	WSW	0.08	8	SW	67.9	68.7	68.7	30.094	0	0	0	0.002	69.2	64	56.5	69	11.67	0.0743	23	1	100	1
9/26/2012	9:48 AM	67.9	67.9	67.9	73	58.9	4	SSE	0.07	9	SSW	67.9	68.7	68.7	30.096	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	23	1	100	1
9/26/2012	9:49 AM	67.9	67.9	67.9	73	58.9	5	W	0.08	9	SSE	67.9	68.7	68.7	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	24	1	100	1
9/26/2012	9:50 AM	67.9	67.9	67.9	73	58.9	4	S	0.07	7	SSW	67.9	68.7	68.7	30.096	0	0	0	0.002	69.2	62	55.6	68.8	11.37	0.0744	23	1	100	1
9/26/2012	9:51 AM	68	68	67.9	73	59	4	SE	0.07	7	SW	68	68.8	68.8	30.095	0	0	0	0.002	69.2	63	56.1	68.9	11.57	0.0743	24	1	100	1
9/26/2012	9:52 AM	68	68	67.9	73	59	3	SW	0.05	7	SSW	68	68.8	68.8	30.095	0	0	0	0.002	69.2	62	55.6	68.8	11.37	0.0744	23	1	100	1
9/26/2012	9:53 AM	68	68	68	73	59	5	SW	0.08	10	WSW	68	68.8	68.8	30.096	0	0	0	0.002	69.4	64	56.7	69.1	11.66	0.0743	23	1	100	1
9/26/2012	9:54 AM	68	68	68	73	59	4	SSW	0.07	7	WSW	68	68.8	68.8	30.095	0	0	0	0.002	69.4	64	56.7	69.1	11.66	0.0743	24	1	100	1
9/26/2012	9:55 AM	68	68	68	73	59	5	W	0.08	8	WSW	68	68.8	68.8	30.097	0	0	0	0.002	69.4	63	56.3	69	11.56	0.0743	23	1	100	1
9/26/2012	9:56 AM	68.1	68.1	68	73	59.1	8	WSW	0.13	13	WSW	67.4	68.9	68.2	30.1	0	0	0	0.002	69.4	63	56.3	69	11.56	0.0743	24	1	100	1
9/26/2012	9:57 AM	68.1	68.1	68.1	73	59.1	5	W	0.08	9	WSW	68.1	68.9	68.9	30.1	0	0	0	0.002	69.6	64	56.9	69.3	11.66	0.0743	23	1	100	1
9/26/2012	9:58 AM	68.1	68.1	68.1	73	59.1	4	SW	0.07	7	WSW	68.1	68.9	68.9	30.101	0	0	0	0.002	69.6	64	56.9	69.3	11.66	0.0743	24	1	100	1
9/26/2012	9:59 AM	68.1	68.1	68.1	73	59.1	5	SW	0.08	8	W	68.1	68.9	68.9	30.102	0	0	0	0.002	69.7	64	57	69.4	11.66	0.0742	23	1	100	1
9/26/2012	10:00 AM	68.1	68.1	68.1	73	59.1	4	W	0.07	7	SE	68.1	68.9	68.9	30.103	0	0	0	0.002	69.7	64	57	69.4	11.66	0.0743	23	1	100	1
9/26/2012	10:01 AM	68.1	68.1	68.1	73	59.1	4	WSW	0.07	8	WSW	68.1	68.9	68.9	30.103	0	0	0	0.002	69.7	63	56.5	69.3	11.56	0.0743	24	1	100	1
9/26/2012	10:02 AM	68.2	68.2	68.1	73	59.2	3	S	0.05	5	SW	68.2	69	69	30.101	0	0	0	0.002	69.9	63	56.7	69.4	11.55	0.0742	23	1	100	1
9/26/2012	10:03 AM	68.2	68.2	68.2	73	59.2	3	W	0.05	6	W	68.2	69	69	30.101	0	0	0	0.002	69.9	63	56.7	69.4	11.55	0.0742	24	1	100	1
9/26/2012	10:04 AM	68.2	68.3	68.2	73	59.2	4	S	0.07	7	SW	68.2	69	69	30.102	0	0	0	0.002	70.1	63	56.9	69.6	11.55	0.0742	23	1	100	1
9/26/2012	10:05 AM	68.3	68.3	68.2	73	59.3	4	SSW	0.07	5	WSW	68.3	69.1	69.1	30.1	0	0	0	0.002	70.1	63	56.9	69.6	11.55	0.0742	23	1	100	1
9/26/2012	10:06 AM	68.3	68.3	68.2	73	59.3	3	WNW	0.05	7	W	68.3	69.1	69.1	30.1	0	0	0	0.002	70.2	63	57	69.7	11.55	0.0742	24	1	100	1
9/26/2012	10:07 AM	68.3	68.3	68.3	72	58.9	3	SW	0.05	7	W	68.3	69	69	30.1	0	0	0	0.002	70.2	63	57	69.7	11.55	0.0742	23	1	100	1
9/26/2012	10:08 AM	68.3	68.3	68.3	73	59.3	3	SSW	0.05	5	S	68.3	69.1	69.1	30.097	0	0	0	0.002	70.4	62	56.8	69.9	11.34	0.0741	24	1	100	1
9/26/2012	10:09 AM	68.3	68.3	68.3	73	59.3	3	S	0.05	7	S	68.3	69.1	69.1	30.095	0	0	0	0.002	70.4	62	56.8	69.9	11.34	0.0741	23	1	100	1
9/26/2012	10:10 AM	68.3	68.4	68.3	73	59.3	4	W	0.07	8	W	68.3	69.1	69.1	30.094	0	0	0	0.002	70.4	63	57.2	70	11.54	0.0741	24	1	100	1
9/26/2012	10:11 AM	68.4	68.4	68.3	73	59.4	4	W	0.07	9	W	68.4	69.2	69.2	30.094	0	0	0	0.002	70.6	62	56.9	70.2	11.34	0.0741	23	1	100	1
9/26/2012	10:12 AM	68.3	68.4	68.3	73	59.3	5	W	0.08	9	WSW	68.3	69.1	69.1	30.093	0	0	0	0.002	70.6	63	57.4	70.2	11.54	0.0741	23	1	100	1
9/26/2012	10:13 AM	68.4	68.4	68.3	73	59.4	3	S	0.05	7	S	68.4	69.2	69.2	30.093	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:14 AM	68.3	68.3	68.3	73	59.3	1	S	0.02	2	WSW	68.3	69.1	69.1	30.091	0	0	0	0.002	70.7	63	57.5	70.4	11.54	0.0741	23	1	100	1
9/26/2012	10:15 AM	68.4	68.4	68.4	73	59.4	2	S	0.03	3	S	68.4	69.2	69.2	30.091	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:16 AM	68.5	68.5	68.4	73	59.5	3	SSW	0.05	6	SSW	68.5	69.3	69.3	30.091	0	0	0	0.002	70.9	62	57.2	70.5	11.33	0.074	23	1	100	1
9/26/2012	10:17 AM	68.5	68.5	68.5	72	59.1	3	SSW	0.05	8	WSW	68.5	69.2	69.2	30.09	0	0	0	0.002	70.9	63	57.7	70.6	11.53	0.074	23	1	100	1
9/26/2012	10:18 AM	68.6	68.6	68.5	73	59.6	2	WSW	0.03	4	SW	68.6	69.4	69.4	30.089	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	24	1	100	1
9/26/2012	10:19 AM	68.6	68.6	68.6	73	59.6	3	WNW	0.05	5	NW	68.6	69.4	69.4	30.088	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	23	1	100	1
9/26/2012	10:20 AM	68.6	68.6	68.6	73

Meteorological Data
Equity IRM

9/26/2012	11:40 AM	71.8	71.8	71.7	68	60.7	3	S	0.05	5	SSE	71.8	72.3	72.3	30.081	0	0	0	0.005	77.5	56	60.6	78	10.15	0.073	24	1	100	1
9/26/2012	11:41 AM	71.8	71.8	71.8	68	60.7	2	S	0.03	5	W	71.8	72.3	72.3	30.084	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	23	1	100	1
9/26/2012	11:42 AM	71.8	71.9	71.8	68	60.7	5	WSW	0.08	8	WNW	71.8	72.3	72.3	30.083	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	24	1	100	1
9/26/2012	11:43 AM	71.7	71.8	71.7	68	60.6	3	WSW	0.05	6	WNW	71.7	72.1	72.1	30.081	0	0	0	0.005	77.9	55	60.4	78.4	9.93	0.0729	23	1	100	1
9/26/2012	11:44 AM	71.7	71.7	71.7	68	60.6	4	SSE	0.07	7	WSW	71.7	72.1	72.1	30.081	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	24	1	100	1
9/26/2012	11:45 AM	71.6	71.7	71.6	68	60.5	5	WSW	0.08	8	WSW	71.6	72	72	30.082	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	23	1	100	1
9/26/2012	11:46 AM	71.5	71.6	71.5	68	60.4	5	WSW	0.08	10	WSW	71.5	71.9	71.9	30.083	0	0	0	0.005	78.2	55	60.7	78.7	9.92	0.0729	23	1	100	1
9/26/2012	11:47 AM	71.4	71.5	71.4	68	60.3	3	WSW	0.05	6	WSW	71.4	71.7	71.7	30.081	0	0	0	0.004	78.2	54	60.2	78.6	9.79	0.0729	24	1	100	1
9/26/2012	11:48 AM	71.4	71.4	71.4	68	60.3	3	WSW	0.05	5	WSW	71.4	71.7	71.7	30.081	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:49 AM	71.4	71.4	71.3	69	60.7	3	WSW	0.05	5	W	71.4	71.8	71.8	30.083	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0729	24	1	100	1
9/26/2012	11:50 AM	71.4	71.4	71.4	69	60.7	2	SSE	0.03	5	SSE	71.4	71.8	71.8	30.08	0	0	0	0.004	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:51 AM	71.5	71.5	71.4	69	60.8	3	SSE	0.05	6	SW	71.5	72	72	30.081	0	0	0	0.005	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:52 AM	71.5	71.5	71.4	68	60.4	4	SSW	0.07	7	W	71.5	71.9	71.9	30.081	0	0	0	0.005	78.4	54	60.4	78.8	9.78	0.0728	24	1	100	1
9/26/2012	11:53 AM	71.5	71.5	71.5	69	60.8	3	WSW	0.05	5	WSW	71.5	72	72	30.081	0	0	0	0.005	78.4	54	60.4	78.8	9.78	0.0728	23	1	100	1
9/26/2012	11:54 AM	71.5	71.5	71.5	68	60.4	3	SSW	0.05	4	WSW	71.5	71.9	71.9	30.083	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	24	1	100	1
9/26/2012	11:55 AM	71.6	71.6	71.5	68	60.5	4	WSW	0.07	6	WSW	71.6	72	72	30.082	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	23	1	100	1
9/26/2012	11:56 AM	71.6	71.6	71.6	68	60.5	3	WSW	0.05	5	WSW	71.6	72	72	30.082	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	24	1	100	1
9/26/2012	11:57 AM	71.6	71.6	71.6	68	60.5	1	WSW	0.02	2	WSW	71.6	72	72	30.082	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	23	1	100	1
9/26/2012	11:58 AM	71.7	71.7	71.6	68	60.6	2	S	0.03	4	SSW	71.7	72.1	72.1	30.081	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	23	1	100	1
9/26/2012	11:59 AM	71.8	71.8	71.7	68	60.7	2	S	0.03	3	S	71.8	72.3	72.3	30.08	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	24	1	100	1
9/26/2012	12:00 PM	71.9	71.9	71.8	68	60.8	2	S	0.03	4	S	71.9	72.4	72.4	30.08	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	22	1	95.7	1
9/26/2012	12:01 PM	72	72	71.9	68	60.9	2	SSW	0.03	3	S	72	72.5	72.5	30.078	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	24	1	100	1
9/26/2012	12:02 PM	72.1	72.1	72	68	61	2	S	0.03	4	SSW	72.1	72.7	72.7	30.077	0	0	0	0.005	78.6	54	60.6	79.1	9.78	0.0728	23	1	100	1
9/26/2012	12:03 PM	72.2	72.2	72.1	68	61	5	S	0.08	10	SSW	72.2	72.8	72.8	30.076	0	0	0	0.005	78.8	54	60.7	79.3	9.77	0.0728	23	1	100	1
9/26/2012	12:04 PM	72.3	72.3	72.2	67	60.7	6	S	0.1	8	SW	72.3	72.9	72.9	30.074	0	0	0	0.005	78.8	54	60.7	79.3	9.77	0.0728	24	1	100	1
9/26/2012	12:05 PM	72.4	72.4	72.3	67	60.8	3	SSE	0.05	4	S	72.4	73	73	30.074	0	0	0	0.005	78.8	54	60.7	79.3	9.77	0.0728	23	1	100	1
9/26/2012	12:06 PM	72.5	72.5	72.4	67	60.9	5	W	0.08	8	S	72.5	73.2	73.2	30.07	0	0	0	0.005	78.8	54	60.7	79.3	9.77	0.0727	23	1	100	1
9/26/2012	12:07 PM	72.5	72.5	72.5	67	60.9	4	WSW	0.07	5	WSW	72.5	73.2	73.2	30.075	0	0	0	0.005	79	53	60.4	79.4	9.65	0.0728	23	1	100	1
9/26/2012	12:08 PM	72.6	72.6	72.5	67	61	4	WSW	0.07	6	WSW	72.6	73.3	73.3	30.076	0	0	0	0.005	79	53	60.4	79.4	9.65	0.0728	23	1	100	1
9/26/2012	12:09 PM	72.6	72.6	72.6	66	60.6	5	WSW	0.08	9	W	72.6	73.2	73.2	30.077	0	0	0	0.005	79	53	60.4	79.4	9.65	0.0728	22	1	95.7	1
9/26/2012	12:10 PM	72.5	72.6	72.5	67	60.9	4	WSW	0.07	8	NW	72.5	73.2	73.2	30.071	0	0	0	0.005	79.2	53	60.6	79.6	9.65	0.0727	23	1	100	1
9/26/2012	12:11 PM	72.5	72.5	72.5	67	60.9	4	W	0.07	7	WNW	72.5	73.2	73.2	30.069	0	0	0	0.005	79.2	53	60.6	79.6	9.65	0.0727	23	1	100	1
9/26/2012	12:12 PM	72.5	72.5	72.5	67	60.9	3	SW	0.05	5	SW	72.5	73.2	73.2	30.069	0	0	0	0.005	79.3	53	60.7	79.7	9.65	0.0727	23	1	100	1
9/26/2012	12:13 PM	72.6	72.6	72.5	67	61	2	S	0.03	7	W	72.6	73.3	73.3	30.068	0	0	0	0.005	79.3	53	60.7	79.7	9.65	0.0727	23	1	100	1
9/26/2012	12:14 PM	72.6	72.6	72.5	67	61	2	S	0.03	3	S	72.6	73.3	73.3	30.069	0	0	0	0.005	79.3	53	60.7	79.7	9.65	0.0727	23	1	100	1
9/26/2012	12:15 PM	72.6	72.6	72.6	67	61	1	S	0.02	3	S	72.6	73.3	73.3	30.068	0	0	0	0.005	79.5	53	60.9	79.9	9.65	0.0726	22	1	95.7	1
9/26/2012	12:16 PM	72.6	72.6	72.6	67	61	5	SSE	0.08	8	SSW	72.6	73.3	73.3	30.067	0	0	0	0.005	79.5	53	60.9	79.9	9.65	0.0726	24	1	100	1
9/26/2012	12:17 PM	72.8	72.8	72.7	67	61.2	6	S	0.1	9	SSE	72.8	73.6	73.6	30.065	0	0	0	0.005	79.5	53	60.9	79.9	9.65	0.0726	22	1	95.7	1
9/26/2012	12:18 PM	72.9	72.9	72.8	67	61.3	5	SSE	0.08	10	SSE	72.9	73.7	73.7	30.067	0	0	0	0.005	79.7	53	61.1	80.2	9.65	0.0726	24	1	100	1
9/26/2012	12:19 PM	73	73	72.9	67	61.4	4	SSW	0.07	8	SSE	73	73.9	73.9	30.067	0	0	0	0.006	79.7	53	61.1	80.2	9.65	0.0726	23	1	100	1
9/26/2012	12:20 PM	73.1	73.1	73	67	61.5	2	SSW	0.03	4	NNW	73.1	74	74	30.069	0	0	0	0.006	79.9	53	61.2	80.4	9.65	0.0726	23	1	100	1
9/26/2012	12:21 PM	73.2	73.2	73.1	66	61.2	2	W	0.03	6	W	73.2	74.1	74.1	30.068	0	0	0	0.006	79.9	53	61.2	80.4	9.65	0.0726	23	1	100	1
9/26/2012	12:22 PM	73.4	73.4	73.2	66	61.3	3	W	0.05	6	W	73.4	74.4	74.4	30.067	0	0	0	0.006	79.9	53	61.2	80.4	9.65	0.0726	23	1	100	1
9/26/2012	12:23 PM	73.4	73.4	73.4	66	61.3	3	W	0.05	5	SSW	73.4	74.4	74.4	30.067	0	0	0	0.006	80.1	53	61.4	80.6	9.65	0.0725	24	1	100	1
9/26/2012	12:24 PM	73.5	73.5	73.5	66	61.4	3	SSW	0.05	5	SSW	73.5	74.5	74.5	30.067	0	0	0	0.006	80.1	53	61.4	80.6	9.65	0.0725	23	1	100	1
9/26/2012	12:25 PM	73.7	73.7	73.6	65	61.2	4	S	0.07	8	SE	73.7	74.7	74.7	30.066	0	0	0	0.006	80.3	53	61.6	80.8	9.64	0.0725	24	1	100	1
9/26/2012	12:26 PM	73.8	73.8	73.7	65	61.3	3	SSW	0.05	5	SSW	73.8	74.9	74.9	30.067	0	0	0	0.006	80.5	53	61.8	81	9.64	0.0725	23	1	100	1
9/26/2012	12:27 PM	73.9	73.9	73.8	66	61.8	2	SSW	0.03	6	SW	73.9	75.1	75.1	30.066	0	0	0	0.006	80.5	53	61.8	81	9.64	0.0725	23	1	100	1
9/26/2012	12:28 PM	74	74	73.9	65	61.5	3	WSW	0.05	6	WSW	74	75.2	75.2	30.067	0	0	0	0.006	80.6	53	61.9	81.2	9.64	0.0724	24	1	100	1
9/26/2012	12:29 PM	74	74	74	65	61.5	5	WSW	0.08	7	WSW	74	75.2	75.2	30.066	0	0	0	0.006	80.6	53	61.9	81.2	9.64	0.0724	23	1	100	1
9/26/2012	12:30 PM	73.9	74	73.9	65	61.4	2	WSW	0.03	5	WSW	73.9	75.1	75.1	30.062	0	0	0	0.006	80.8	52	61.5	81.3	9.43	0.0724	24	1	100	1
9/26/2012	12:31 PM	73.9	73.9	73.8	65	61.4	2	WSW	0.03	4	WSW	73.9	75.1	75.1	30.063	0	0	0	0.006	80.8	52	61.5	81.3	9.43	0.0724	23	1	100	1
9/26/2012	12:32 PM	73.9	73.9	73.9	65	61.4	3	WSW	0.05	6	SSW	73.9	75.1	75.1	30.061	0	0	0	0.006	81	52	61.7	81.5	9.43	0.0724	23	1	100	1
9/26/2012	12:33 PM	74	74	73.9	65	61.5	3	S	0.05	7	W	74	75.2	75.2	30.063	0	0	0	0.006	81	52	61.7	81.5	9.43	0.0724	24	1	100	1
9/26/2012	12:34 PM	74.2	74.2	74	64	61.2	2	S	0.03	5	W	74.2	75.3	75.3	30.064	0	0	0	0.006	81.2	52	61.9	81.8	9.43	0.0724	23	1	100	1
9/26/2012	12:35 PM	74.3	74.3	74.1	64	61.3	4	S	0.07	8	S	74.3	75.4	75.4	30.064	0	0	0	0.006	81.2	52	61.9	81.8	9.43	0.0724	24	1	100	1
9/26/2012	12:36 PM	74.4	74.4	74.3	64	61.4	3	SSE	0.05	6	SE	74.4	75.5	75.5	30.067	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0724	23	1	100	1
9/26/2012	12:37 PM	74.6	74.6	74.4	64	61.6	6	SW	0.1	9	SW	74.6	75.8	75.8	30.066	0	0	0	0.007	81.4	52	62.1	82.1	9.42	0.0723	24	1	100	1
9/26/2012	12:38 PM	74.8	74.8	74.6	63	61.4	3	S	0.05	7	SSW	74.8	75.9	75.9	30.067	0	0	0	0.007	81.6	51	61.7	82.2	9.32	0.0723	23	1	100	1
9/26/2012	12:39 PM	74.9	74.9	74.8	63	61.5	4	WSW	0.07	8	WNW	74.9	76	76	30.069	0	0	0	0.007	81.6	51	61.7	82.2	9.32	0.0723	23	1	100	1
9/26/2012	12:40 PM	74.9	74.9	74.9	63	61.5	6	W	0.1	10	W	74.9	76	76	30.07	0	0	0	0.007	81.8	51	61.9	82.5	9.31	0.0723	24	1	100	1
9/26/2012	12:41 PM	74.8	74.9	74.8	63	61.4	3	W	0.05	5	NNW	74.8	75.9	75.9	30.07	0	0	0	0.007	82	51	62.1	82.8	9.31	0.0723	23	1	100	1
9/26/2012	12:42 PM	74.8	74.8	74.8	63	61.4	4	W	0.07	9	W	74.8	75.9	75.9	30.069	0	0	0	0.007	82.1	51	62.2	82.9	9.31	0.0722	24	1	100	1
9/26/2012	12:43 PM	74.8	74.8	74.7	64	61.8	2	WSW	0.03	4	WSW	74.8	76	76	30.068	0	0	0	0.007	82.3	51	62.4	83.2	9.3	0.0722	23	1	100	1
9/26/2012	12:44 PM	74.8	74.8	74.8	63	61.4	3	SSW	0.05	7	W	74.8	75.9	75.9	30.065	0	0	0	0.007	82.5	50	62	83.4	9.1	0.0722	23	1	100	1
9/26/2012	12:45 PM	74.9	74.9	74.9	63	61.5	5	SW	0.08	8	WNW	74.9	76	76	30.066	0	0	0	0.007	82.5	50	62	83.4	9.1	0.0722	24	1	100	1
9/26/2012	12:46 PM	75	75	74.9	63	61.5	2	WSW	0.03	5	WNW	75	76.1	76.1	30.065	0	0	0	0.007	82.7	50	62.2	83.7	9.1	0.0721	23	1	100	1
9/26/2012	12:47 PM	75.2	75.2	75	63	61.7	3	E	0.05	5	WSW	75.2	76.3	76.3	30.064	0	0	0	0.007	82.9	50	62.4	84	9.09	0.0721	23	1	100	1
9/26/2012	12:48 PM	75.3	75.3	75.2	62	61.4	5	W	0.08	8	WNW	75.3	76.3	76.3	30.067	0	0	0	0.007	83.1	50	62.5	84.4	9.09	0.0721	23	1	100	1
9/26/2012	12:49 PM	75.3	75.3	75.3	62	61.4	6	WSW	0.1	10	WSW	75.3	76.3	76.3	30.067	0	0	0	0.007	83.1	50	62.5	84.4	9.09	0.0721	24	1	100	1
9/26/2012	12:50 PM	75.2	75.3	75.2	63	61.7	3	NNE	0.05	6	NNE	75.2	76.3	76.3	30.064	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.0721	23	1	100	1
9/26/2012	12:51 PM	75.2	75.3	75.2	63	61.7	4	S	0.07	8	SW	75.2	76.3	76.3	30.063	0	0	0	0.007	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/26/2012	12:52 PM	75.2	75.2	75.2	62	61.3	1	S	0.02	3	S	75.2	76.2	76.2	30.063	0	0	0	0.007	83.7	49	62.5	85.2	8.88	0.072	23	1	100	1
9/26/2012	12:53 PM	75.2	75.2	75.2	63	61.7	2	S	0.03	4	S	75.2	76.3	76.3	30.063	0	0	0	0.007	83.7	49	62.5	85.2	8.88	0.072	23	1	100	1
9/26/2012	12:54 PM	75.2	75.2	75.2	63	61.7	3	SW	0.05	5	WSW	75.2	76.3	76.3	30.061	0	0	0	0.007	83.9	49	62.7	85.5	8.87	0.072	23	1	100	1
9/26/2012	12:55 PM	75.2	75.2	75.2	62	61.3	4	SW	0.07	8	SSE	75.2	76.2	76.2	30.061	0	0	0	0.007	83.9	49	62.7	85.5	8.87	0.072	23	1	100	1
9/26/2012	12:56 PM	75.2	75.3	75.2	63	61.7	5	S	0.08	11	SW	75.2	76.3	76.3	30.06	0	0	0	0.007	83.9	49	62.7	85.5	8.87	0.0719	22	1	95.7	1
9/26/2012	12:57 PM	75.3	75.3	75.2	63	61.8	3	SSE	0.05	5	SSW	75.3	76.4	76.4	30.059	0	0	0	0.007	83.9	48	62.1	85.4	8.77	0.072	24	1	100	1
9/26/2012	12:58 PM	75.3	75.3	75.3	63	61.8	4	SE	0.07	9	W	75.3	76.4	76.4	30.06	0	0	0	0.007	83.9	48	62.1	85.4	8.77	0.072	22	1	95.7	1
9/26/2012	12:59 PM	75.1	75.2	75.1	63	61.6	6	WSW	0.1	8	WSW	75.1	76.2	76.2	30.059	0	0	0	0.007	83.9	49	62.7	85.5	8.87	0.0719	23	1	100	1
9/26/2012	1:00 PM	74.9	75.1	74.9	63	61.5	5	WSW	0.08	8	WSW	74.9	76	76	30.062	0	0	0	0.007	83.9	48	62.1	85.4	8.77	0.072	22	1	95.7	1
9/26/2012	1:01 PM	74.8	74.9	74.8	64	61.8	3	W	0.05	6	WSW	74.8	76	76	30.06	0	0	0	0.007	83.9	49	62.7	85.5	8.87	0.0719	23	1	100	1
9/26/2012	1:02 PM	74.7	74.7	74.7	63	61.3	4	W	0.07	8	WSW	74.7	75.8	75.8	30.058	0	0	0	0.007	83.9	48	62.1	85.4	8.77	0.072	23	1	100	1
9/26/2012	1:03 PM	74.6	74.7	74.6	63	61.2	3	S	0.05	8	S	74.6	75.7	75.7	30.06	0	0	0	0.007	83.9	48	62.1	85.4	8.77	0.072	21	1	91.3	1
9/26/2012	1:04 PM	74.6	74.6	74.6	63	61.2	2	SSE	0.03	3	SSE	74.6	75.7	75.7	30.058	0	0	0	0.007	83.7	48	61.9	85	8.78	0.072	24	1	100	1
9/26/2012	1:05 PM	74.6	74.6	74.6	63	61.2	5	WSW	0.08	8	WSW	74.6	75.7	75.7	30.058	0	0	0	0.007	83.7	48	61.9	85	8.78	0.072	23	1	100	1
9/26/2012	1:06 PM	74.6	74.6	74.6	64	61.6	4	WSW	0.07	7	WSW	74.6	75.8	75.8	30.057	0	0	0	0.007	83.5	48	61.7	84.7	8.78	0.072	24	1	100	1
9/26/2012	1:07 PM	74.6	74.6	74.6	64	61.6	3	SSW	0.05	6	SW	74.6	75.8	75.8	30.056	0	0	0	0.007	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/26/2012	1:08 PM	74.6	74.6	74.6	64	61.6	3	SSW	0.05	7	S	74.6	75.8	75.8	30.055	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	22	1	95.7	1
9/26/2012	1:09 PM	74.6	74.6	74.6	64	61.6	3	S	0.05	6	S	74.6	75.8	75.8	30.054	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/26/2012	1:10 PM	74.7	74.7	74.7	64	61.7	5	SSW	0.08	8	SSW	74.7	75.9	75.9	30.054	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:11 PM	74.8	74.8	74.7	63	61.4	5	S	0.08	7	SSW	74.8	75.9	75.9	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:12 PM	74.9	74.9	74.9	63	61.5	5	SSE	0.08	8	S	74.9	76	76	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:13 PM	75	75	74.9	63	61.5	3	S	0.05	5	S	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:14 PM	75	75	74.9	63	61.5	3	WSW	0.05	5	WSW	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:15 PM	75.1	75.1	75	63	61.6	4	WSW	0.07	8	S	75.1	76.2	76.2	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:16 PM	75.2	75.2	75.1	63	61.7	5	S	0.08	8	S	75.2	76.3	76.3	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:17 PM	75.3	75.3	75.2	63	61.8	4	S	0.07	8	S	75.3	76.4	76.4	30.05	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:18 PM	75.3	75.3	75.2	62	61.4	3	S	0.05	5	SSW	75.3	76.3	76.3	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:19 PM	75.3	75.4	75.3	62	61.4	5	S	0.08	8	S	75.3	76.3	76.3	30.051	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:20 PM	75.3	75.3	75.3	62	61.4	6

Meteorological Data
Equity IRM

9/26/2012	2:40 PM	76.2	76.2	76.2	61	61.8	4	S	0.07	6	S	76.2	77	77	30.025	0	0	0	0.008	81.8	49	60.8	82.2	8.91	0.0722	24	1	100	1
9/26/2012	2:41 PM	76.1	76.2	76.1	61	61.7	4	SW	0.07	9	W	76.1	76.9	76.9	30.031	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:42 PM	76.1	76.1	76.1	61	61.7	4	WSW	0.07	6	SW	76.1	76.9	76.9	30.028	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:43 PM	76	76.1	76	61	61.6	2	SSW	0.03	3	SSW	76	76.8	76.8	30.029	0	0	0	0.008	81.4	49	60.4	81.6	8.92	0.0723	24	1	100	1
9/26/2012	2:44 PM	76	76.1	76	61	61.6	4	S	0.07	7	S	76	76.8	76.8	30.026	0	0	0	0.008	81.4	50	61	81.8	9.12	0.0723	23	1	100	1
9/26/2012	2:45 PM	76	76	76	61	61.6	4	SW	0.07	8	SW	76	76.8	76.8	30.024	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	24	1	100	1
9/26/2012	2:46 PM	75.9	76	75.9	61	61.5	3	S	0.05	7	S	75.9	76.7	76.7	30.025	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	23	1	100	1
9/26/2012	2:47 PM	75.9	76	75.9	62	61.9	2	NW	0.03	4	WNW	75.9	76.8	76.8	30.025	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0723	24	1	100	1
9/26/2012	2:48 PM	75.9	75.9	75.9	61	61.5	5	S	0.08	8	WSW	75.9	76.7	76.7	30.026	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0724	23	1	100	1
9/26/2012	2:49 PM	75.8	75.9	75.8	61	61.4	5	SW	0.08	7	SSW	75.8	76.6	76.6	30.027	0	0	0	0.008	80.8	50	60.4	81	9.13	0.0724	23	1	100	1
9/26/2012	2:50 PM	75.8	75.8	75.8	62	61.8	3	S	0.05	7	SSW	75.8	76.7	76.7	30.026	0	0	0	0.008	80.8	50	60.4	81	9.13	0.0724	24	1	100	1
9/26/2012	2:51 PM	75.7	75.8	75.7	62	61.8	4	SSW	0.07	7	SSW	75.7	76.6	76.6	30.024	0	0	0	0.007	80.6	50	60.2	80.8	9.14	0.0724	23	1	100	1
9/26/2012	2:52 PM	75.7	75.7	75.7	62	61.8	4	SSE	0.07	6	SSW	75.7	76.6	76.6	30.026	0	0	0	0.007	80.6	50	60.2	80.8	9.14	0.0724	24	1	100	1
9/26/2012	2:53 PM	75.7	75.7	75.7	62	61.8	2	SSE	0.03	4	SSW	75.7	76.6	76.6	30.026	0	0	0	0.007	80.5	50	60.1	80.6	9.14	0.0724	23	1	100	1
9/26/2012	2:54 PM	75.7	75.7	75.7	62	61.8	4	SSW	0.07	7	SSW	75.7	76.6	76.6	30.024	0	0	0	0.007	80.3	51	60.5	80.6	9.34	0.0724	23	1	100	1
9/26/2012	2:55 PM	75.6	75.7	75.6	64	62.6	4	SSW	0.07	6	SSW	75.6	76.7	76.7	30.024	0	0	0	0.007	80.3	51	60.5	80.6	9.34	0.0724	24	1	100	1
9/26/2012	2:56 PM	75.6	75.6	75.6	65	63	3	SSW	0.05	5	S	75.6	76.8	76.8	30.022	0	0	0	0.007	80.1	51	60.3	80.3	9.35	0.0725	23	1	100	1
9/26/2012	2:57 PM	75.5	75.6	75.5	65	62.9	3	S	0.05	5	S	75.5	76.8	76.8	30.022	0	0	0	0.007	80.1	52	60.9	80.5	9.45	0.0724	24	1	100	1
9/26/2012	2:58 PM	75.4	75.5	75.4	66	63.2	3	SSE	0.05	5	SSE	75.4	76.8	76.8	30.02	0	0	0	0.007	79.9	52	60.7	80.2	9.45	0.0725	23	1	100	1
9/26/2012	2:59 PM	75.3	75.4	75.3	67	63.6	3	SSE	0.05	5	SSE	75.3	76.8	76.8	30.019	0	0	0	0.007	79.7	52	60.5	80	9.46	0.0725	24	1	100	1
9/26/2012	3:00 PM	75.2	75.3	75.2	67	63.5	4	SSW	0.07	7	S	75.2	76.7	76.7	30.019	0	0	0	0.007	79.7	52	60.5	80	9.46	0.0725	23	1	100	1
9/26/2012	3:01 PM	75.1	75.2	75.1	67	63.4	3	SSW	0.05	5	SSE	75.1	76.6	76.6	30.019	0	0	0	0.007	79.5	53	60.9	79.9	9.65	0.0725	23	1	100	1
9/26/2012	3:02 PM	75	75	75	68	63.7	3	SSE	0.05	5	SSW	75	76.5	76.5	30.018	0	0	0	0.007	79.3	53	60.7	79.7	9.65	0.0726	24	1	100	1
9/26/2012	3:03 PM	74.9	75	74.9	68	63.6	1	SSE	0.02	2	SSE	74.9	76.4	76.4	30.015	0	0	0	0.007	79.3	53	60.7	79.7	9.65	0.0725	23	1	100	1
9/26/2012	3:04 PM	74.9	74.9	74.9	69	64	3	SSE	0.05	5	SSW	74.9	76.5	76.5	30.014	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	3:05 PM	74.8	74.9	74.8	68	63.5	4	S	0.07	6	S	74.8	76.3	76.3	30.015	0	0	0	0.007	79	55	61.5	79.6	9.89	0.0726	23	1	100	1
9/26/2012	3:06 PM	74.8	74.8	74.8	69	63.9	4	S	0.07	6	SSW	74.8	76.4	76.4	30.013	0	0	0	0.007	79	55	61.5	79.6	9.89	0.0725	23	1	100	1
9/26/2012	3:07 PM	74.8	74.9	74.8	69	63.9	5	S	0.08	7	SSW	74.8	76.4	76.4	30.017	0	0	0	0.007	78.8	55	61.3	79.4	9.9	0.0726	24	1	100	1
9/26/2012	3:08 PM	74.8	74.8	74.8	69	63.9	4	SSW	0.07	6	SSW	74.8	76.4	76.4	30.017	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	23	1	100	1
9/26/2012	3:09 PM	74.8	74.8	74.8	69	63.9	4	S	0.07	6	S	74.8	76.4	76.4	30.017	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	24	1	100	1
9/26/2012	3:10 PM	74.8	74.8	74.8	68	63.5	3	SSE	0.05	4	SSE	74.8	76.3	76.3	30.015	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	21	1	91.3	1
9/26/2012	3:11 PM	74.8	74.8	74.8	68	63.5	5	S	0.08	7	SSW	74.8	76.3	76.3	30.015	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	23	1	100	1
9/26/2012	3:12 PM	74.8	74.8	74.8	68	63.5	4	S	0.07	7	SSW	74.8	76.3	76.3	30.013	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:13 PM	74.8	74.8	74.8	68	63.5	3	S	0.05	4	S	74.8	76.3	76.3	30.012	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:14 PM	74.8	74.8	74.8	68	63.5	3	S	0.05	5	SSE	74.8	76.3	76.3	30.011	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:15 PM	74.8	74.9	74.8	67	63.1	4	S	0.07	6	S	74.8	76.2	76.2	30.012	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:16 PM	74.9	74.9	74.8	67	63.2	4	SSE	0.07	5	S	74.9	76.3	76.3	30.01	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:17 PM	74.9	74.9	74.9	67	63.2	4	SSW	0.07	6	SSW	74.9	76.3	76.3	30.011	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:18 PM	74.9	74.9	74.9	67	63.2	4	S	0.07	6	SSW	74.9	76.3	76.3	30.012	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	22	1	95.7	1
9/26/2012	3:19 PM	74.9	74.9	74.9	68	63.6	4	S	0.07	7	SSW	74.9	76.4	76.4	30.013	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:20 PM	74.9	74.9	74.8	68	63.6	3	S	0.05	5	SSE	74.9	76.4	76.4	30.012	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:21 PM	74.9	74.9	74.8	68	63.6	2	SSE	0.03	5	SSE	74.9	76.4	76.4	30.013	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:22 PM	74.8	74.9	74.8	68	63.5	2	SSE	0.03	3	SSE	74.8	76.3	76.3	30.013	0	0	0	0.007	78.4	56	61.4	79	10.11	0.0726	23	1	100	1
9/26/2012	3:23 PM	74.9	74.9	74.8	68	63.6	2	SSE	0.03	4	SSE	74.9	76.4	76.4	30.013	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	22	1	95.7	1
9/26/2012	3:24 PM	74.9	74.9	74.9	67	63.2	4	SSW	0.07	5	SSE	74.9	76.3	76.3	30.013	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	23	1	100	1
9/26/2012	3:25 PM	75	75	74.9	67	63.3	4	SSE	0.07	6	SE	75	76.5	76.5	30.014	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	23	1	100	1
9/26/2012	3:26 PM	75.1	75.1	75	67	63.4	3	S	0.05	5	S	75.1	76.6	76.6	30.015	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	24	1	100	1
9/26/2012	3:27 PM	75.2	75.2	75.1	67	63.5	3	S	0.05	7	SSW	75.2	76.7	76.7	30.013	0	0	0	0.007	78.6	56	61.6	79.3	10.11	0.0726	23	1	100	1
9/26/2012	3:28 PM	75.3	75.3	75.2	67	63.6	4	S	0.07	7	SSW	75.3	76.8	76.8	30.013	0	0	0	0.007	78.8	55	61.3	79.4	9.9	0.0726	24	1	100	1
9/26/2012	3:29 PM	75.3	75.4	75.3	67	63.6	6	S	0.1	8	SW	75.3	76.8	76.8	30.013	0	0	0	0.007	78.8	55	61.3	79.4	9.9	0.0726	23	1	100	1
9/26/2012	3:30 PM	75.4	75.4	75.3	66	63.2	4	SSE	0.07	5	SW	75.4	76.8	76.8	30.015	0	0	0	0.007	79	55	61.5	79.6	9.89	0.0726	23	1	100	1
9/26/2012	3:31 PM	75.3	75.4	75.3	66	63.2	4	S	0.07	7	SSW	75.3	76.7	76.7	30.015	0	0	0	0.007	79.2	55	61.6	79.8	9.88	0.0725	24	1	100	1
9/26/2012	3:32 PM	75.3	75.3	75.3	66	63.2	5	SSW	0.08	7	SSW	75.3	76.7	76.7	30.014	0	0	0	0.007	79.2	55	61.6	79.8	9.88	0.0725	23	1	100	1
9/26/2012	3:33 PM	75.1	75.2	75.1	66	63	5	S	0.08	7	S	75.1	76.5	76.5	30.014	0	0	0	0.007	79.3	55	61.7	79.9	9.88	0.0725	24	1	100	1
9/26/2012	3:34 PM	75.1	75.1	75.1	66	63	4	S	0.07	6	S	75.1	76.5	76.5	30.012	0	0	0	0.007	79.3	55	61.7	79.9	9.88	0.0725	23	1	100	1
9/26/2012	3:35 PM	75	75.1	75	67	63.3	4	SSE	0.07	6	SSW	75	76.5	76.5	30.013	0	0	0	0.007	79.5	55	61.9	80.1	9.87	0.0725	23	1	100	1
9/26/2012	3:36 PM	75	75	75	67	63.3	4	SSE	0.07	5	SSE	75	76.5	76.5	30.014	0	0	0	0.007	79.5	55	61.9	80.1	9.87	0.0725	24	1	100	1
9/26/2012	3:37 PM	74.9	74.9	74.9	67	63.2	4	S	0.07	6	S	74.9	76.3	76.3	30.015	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0725	21	1	91.3	1
9/26/2012	3:38 PM	74.9	74.9	74.9	67	63.2	3	SSW	0.05	5	SSE	74.9	76.3	76.3	30.013	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	23	1	100	1
9/26/2012	3:39 PM	74.9	74.9	74.9	67	63.2	4	SSE	0.07	5	S	74.9	76.3	76.3	30.013	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	23	1	100	1
9/26/2012	3:40 PM	74.9	74.9	74.9	67	63.2	4	S	0.07	6	S	74.9	76.3	76.3	30.013	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	24	1	100	1
9/26/2012	3:41 PM	74.9	74.9	74.9	67	63.2	5	SSW	0.08	7	SSE	74.9	76.3	76.3	30.015	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	23	1	100	1
9/26/2012	3:42 PM	74.9	74.9	74.9	67	63.2	4	S	0.07	5	SSW	74.9	76.3	76.3	30.013	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	21	1	91.3	1
9/26/2012	3:43 PM	74.9	74.9	74.8	68	63.6	4	S	0.07	7	SSW	74.9	76.4	76.4	30.013	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	24	1	100	1
9/26/2012	3:44 PM	74.8	74.9	74.8	68	63.5	4	S	0.07	5	ESE	74.8	76.3	76.3	30.014	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	23	1	100	1
9/26/2012	3:45 PM	74.8	74.8	74.8	67	63.1	4	S	0.07	5	S	74.8	76.2	76.2	30.013	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	24	1	100	1
9/26/2012	3:46 PM	74.8	74.8	74.8	68	63.5	4	SSE	0.07	6	S	74.8	76.3	76.3	30.013	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	23	1	100	1
9/26/2012	3:47 PM	74.8	74.8	74.7	68	63.5	4	S	0.07	6	SSW	74.8	76.3	76.3	30.015	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	23	1	100	1
9/26/2012	3:48 PM	74.7	74.7	74.7	68	63.4	3	S	0.05	5	S	74.7	76.2	76.2	30.014	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	24	1	100	1
9/26/2012	3:49 PM	74.7	74.7	74.7	68	63.4	4	SSW	0.07	7	S	74.7	76.2	76.2	30.014	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	21	1	91.3	1
9/26/2012	3:50 PM	74.6	74.7	74.6	69	63.8	4	SSW	0.07	7	SSW	74.6	76.2	76.2	30.014	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	22	1	95.7	1
9/26/2012	3:51 PM	74.6	74.6	74.6	69	63.8	3	S	0.05	5	SSE	74.6	76.2	76.2	30.015	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	23	1	100	1
9/26/2012	3:52 PM	74.5	74.6	74.5	69	63.7	3	S	0.05	5	S	74.5	76.1	76.1	30.013	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	24	1	100	1
9/26/2012	3:53 PM	74.5	74.6	74.5	69	63.7	4	SSW	0.07	7	SSW	74.5	76.1	76.1	30.014	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	23	1	100	1
9/26/2012	3:54 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	5	SSE	74.5	76.1	76.1	30.013	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	23	1	100	1
9/26/2012	3:55 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	5	S	74.5	76.1	76.1	30.013	0	0	0	0.007	80.3	54	62.1	80.9	9.75	0.0723	24	1	100	1
9/26/2012	3:56 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	5	S	74.5	76.1	76.1	30.013	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	23	1	100	1
9/26/2012	3:57 PM	74.5	74.5	74.4	69	63.7	3	SSE	0.05	5	SSE	74.5	76.1	76.1	30.014	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	24	1	100	1
9/26/2012	3:58 PM	74.4	74.5	74.4	69	63.6	4	SSE	0.07	5	S	74.4	76	76	30.012	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	23	1	100	1
9/26/2012	3:59 PM	74.4	74.5	74.4	69	63.6	3	SSE	0.05	5	SSE	74.4	76	76	30.015	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	22	1	95.7	1
9/26/2012	4:00 PM	74.4	74.5	74.4	69	63.6	2	S	0.03	4	S	74.4	76	76	30.015	0	0	0	0.007	80.1	54	62	80.7	9.75	0.0724	24	1	100	1
9/26/2012	4:01 PM	74.5	74.5	74.4	69	63.7	3	S	0.05	4	S	74.5	76.1	76.1	30.012	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	22	1	95.7	1
9/26/2012	4:02 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	4	S	74.5	76.1	76.1	30.012	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	23	1	100	1
9/26/2012	4:03 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	4	S	74.5	76.1	76.1	30.012	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	22	1	95.7	1
9/26/2012	4:04 PM	74.5	74.5	74.5	69	63.7	3	S	0.05	4	S	74.5	76.1	76.1	30.012	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	22	1	95.7	1
9/26/2012	4:05 PM	74.5	74.5	74.5	69	63.7	2	S	0.03	5	SSE	74.5	76.1	76.1	30.012	0	0	0	0.007	79.9	54	61.8	80.5	9.75	0.0724	23	1	100	1
9/26/2012	4:06 PM	74.5	74.5	74.5	69	63.7	3	SSE	0.05	5	S	74.5	76.1	76.1	30.013	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	22	1	95.7	1
9/26/2012	4:07 PM	74.5	74.6	74.5	69	63.7	2	SSE	0.03	3	SSE	74.5	76.1	76.1	30.014	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0725	24	1	100	1
9/26/2012	4:08 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	2	SSE	74.5	76.1	76.1	30.013	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	21	1	91.3	1
9/26/2012	4:09 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	3	SSE	74.5	76.1	76.1	30.012	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	24	1	100	1
9/26/2012	4:10 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	4	SSE	74.5	76.1	76.1	30.012	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	22	1	95.7	1
9/26/2012	4:11 PM	74.4	74.5	74.4	69	63.6	4	SSE	0.07	5	SSE	74.4	76	76	30.011	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	21	1	91.3	1
9/26/2012	4:12 PM	74.4	74.4	74.4	70	64	3	SE	0.05	4	SE	74.4	76	76	30.01	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	24	1	100	1
9/26/2012	4:13 PM	74.4	74.5	74.4	70	64	3	SE	0.05	5	SE	74.4	76	76	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:14 PM	74.4	74.4	74.4	70	64	2	SE	0.03	3	SE	74.4	76	76	30.006	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	24	1	100	1
9/26/2012	4:15 PM	74.5	74.5	74.4	70	64.1	3	SSW	0.05	5	SSW	74.5	76.1	76.1	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:16 PM	74.5	74.5	74.4	70	64.1	2	SSW	0.03	3	SSW	74.5	76.1	76.1	30.007	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:17 PM	74.4	74.4	74.4	70	64	0	SSW	0	1	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:18 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	2	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	23	1	100	1
9/26/2012	4:19 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	3	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:20 PM	74.4

Meteorological Data
Equity IRM

9/26/2012	5:40 PM	75.2	75.3	75.2	64	62.2	3	WSW	0.05	5	N	75.2	76.4	76.4	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	23	1	100	1
9/26/2012	5:41 PM	75.2	75.2	75.2	64	62.2	5	NNW	0.08	8	NW	75.2	76.4	76.4	30.025	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:42 PM	75.2	75.2	75.2	64	62.2	3	N	0.05	5	NW	75.2	76.4	76.4	30.027	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:43 PM	75.2	75.2	75.2	64	62.2	2	W	0.03	5	W	75.2	76.4	76.4	30.029	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:44 PM	75.2	75.2	75.2	63	61.7	2	SSW	0.03	5	W	75.2	76.3	76.3	30.028	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:45 PM	75.2	75.3	75.2	64	62.2	2	W	0.03	3	SW	75.2	76.4	76.4	30.029	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	22	1	95.7	1
9/26/2012	5:46 PM	75.2	75.2	75.2	64	62.2	3	W	0.05	7	WNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:47 PM	75.2	75.2	75.2	64	62.2	2	SW	0.03	4	NNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:48 PM	75.2	75.2	75.2	64	62.2	3	NNW	0.05	5	N	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:49 PM	75.2	75.2	75.2	64	62.2	2	NNW	0.03	3	NNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:50 PM	75.2	75.2	75.2	64	62.2	2	N	0.03	4	N	75.2	76.4	76.4	30.027	0	0	0	0.007	75.6	56	58.8	76.1	10.23	0.0732	23	1	100	1
9/26/2012	5:51 PM	75.1	75.2	75.1	64	62.1	1	N	0.02	4	N	75.1	76.3	76.3	30.027	0	0	0	0.007	75.6	56	58.8	76.1	10.23	0.0732	24	1	100	1
9/26/2012	5:52 PM	75.1	75.1	75.1	64	62.1	3	NNW	0.05	6	NNW	75.1	76.3	76.3	30.026	0	0	0	0.007	75.6	57	59.3	76.1	10.33	0.0731	23	1	100	1
9/26/2012	5:53 PM	75.1	75.1	75.1	65	62.5	1	NNW	0.02	3	NNW	75.1	76.4	76.4	30.026	0	0	0	0.007	75.6	57	59.3	76.1	10.33	0.0731	24	1	100	1
9/26/2012	5:54 PM	75.1	75.1	75.1	64	62.1	2	NNW	0.03	4	N	75.1	76.3	76.3	30.024	0	0	0	0.007	75.6	57	59.3	76.1	10.33	0.0731	23	1	100	1
9/26/2012	5:55 PM	75.1	75.1	75.1	64	62.1	3	N	0.05	5	NNW	75.1	76.3	76.3	30.025	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	24	1	100	1
9/26/2012	5:56 PM	75.1	75.1	75.1	63	61.6	0	NNW	0	2	NNW	75.1	76.2	76.2	30.025	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	23	1	100	1
9/26/2012	5:57 PM	75.1	75.1	75.1	64	62.1	3	NNW	0.05	6	NNW	75.1	76.3	76.3	30.026	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	23	1	100	1
9/26/2012	5:58 PM	75.1	75.1	75.1	64	62.1	3	W	0.05	5	NNW	75.1	76.3	76.3	30.028	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	24	1	100	1
9/26/2012	5:59 PM	75.1	75.1	75.1	64	62.1	2	W	0.03	5	W	75.1	76.3	76.3	30.028	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	23	1	100	1
9/26/2012	6:00 PM	75	75.1	75	65	62.4	2	W	0.03	4	W	75	76.3	76.3	30.03	0	0	0	0.007	75.4	57	59.1	76	10.33	0.0732	24	1	100	1
9/26/2012	6:01 PM	75	75	75	65	62.4	3	NNW	0.05	6	NNW	75	76.3	76.3	30.029	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	23	1	100	1
9/26/2012	6:02 PM	75	75	75	64	62	3	N	0.05	4	NW	75	76.2	76.2	30.03	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	23	1	100	1
9/26/2012	6:03 PM	75	75	75	64	62	1	W	0.02	2	W	75	76.2	76.2	30.029	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	24	1	100	1
9/26/2012	6:04 PM	75	75	75	64	62	0	W	0	1	W	75	76.2	76.2	30.029	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	23	1	100	1
9/26/2012	6:05 PM	75	75	75	65	62.4	1	W	0.02	2	W	75	76.3	76.3	30.029	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	24	1	100	1
9/26/2012	6:06 PM	75	75	75	65	62.4	1	W	0.02	2	W	75	76.3	76.3	30.028	0	0	0	0.007	75.2	57	58.9	75.8	10.34	0.0732	23	1	100	1
9/26/2012	6:07 PM	75	75.1	75	64	62	0	W	0	1	W	75	76.2	76.2	30.03	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	24	1	100	1
9/26/2012	6:08 PM	75	75.1	75	64	62	0	---	0	0	---	75	76.2	76.2	30.03	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	23	1	100	1
9/26/2012	6:09 PM	75	75.1	75	65	62.4	0	---	0	0	---	75	76.3	76.3	30.031	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	23	1	100	1
9/26/2012	6:10 PM	75.1	75.1	75	65	62.5	0	W	0	2	W	75.1	76.4	76.4	30.031	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	24	1	100	1
9/26/2012	6:11 PM	75.1	75.1	75	66	63	0	---	0	0	---	75.1	76.5	76.5	30.032	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	23	1	100	1
9/26/2012	6:12 PM	75	75	75	66	62.9	1	W	0.02	5	SSW	75	76.4	76.4	30.032	0	0	0	0.007	75	57	58.7	75.7	10.35	0.0733	24	1	100	1
9/26/2012	6:13 PM	75	75	75	65	62.4	3	SW	0.05	5	SW	75	76.3	76.3	30.033	0	0	0	0.007	74.9	57	58.6	75.5	10.35	0.0733	22	1	95.7	1
9/26/2012	6:14 PM	75.1	75.1	75	65	62.5	1	SW	0.02	2	SW	75.1	76.4	76.4	30.032	0	0	0	0.007	74.9	57	58.6	75.5	10.35	0.0733	23	1	100	1
9/26/2012	6:15 PM	75.1	75.1	75.1	67	63.4	1	SW	0.02	2	SW	75.1	76.6	76.6	30.034	0	0	0	0.007	74.9	57	58.6	75.5	10.35	0.0733	23	1	100	1
9/26/2012	6:16 PM	75.1	75.1	75	67	63.4	0	SW	0	2	SW	75.1	76.6	76.6	30.033	0	0	0	0.007	74.9	57	58.6	75.5	10.35	0.0733	23	1	100	1
9/26/2012	6:17 PM	75	75.1	75	67	63.3	2	SSW	0.03	4	SSW	75	76.5	76.5	30.034	0	0	0	0.007	74.9	57	58.6	75.5	10.35	0.0733	24	1	100	1
9/26/2012	6:18 PM	75	75	75	67	63.3	2	WNW	0.03	4	WNW	75	76.5	76.5	30.037	0	0	0	0.007	74.7	57	58.5	75.3	10.36	0.0733	23	1	100	1
9/26/2012	6:19 PM	74.9	75	74.9	66	62.8	2	W	0.03	4	W	74.9	76.3	76.3	30.037	0	0	0	0.007	74.7	57	58.5	75.3	10.36	0.0733	24	1	100	1
9/26/2012	6:20 PM	74.9	74.9	74.9	66	62.8	2	WSW	0.03	4	WSW	74.9	76.3	76.3	30.037	0	0	0	0.007	74.7	57	58.5	75.3	10.36	0.0733	23	1	100	1
9/26/2012	6:21 PM	74.9	74.9	74.9	66	62.8	2	WSW	0.03	5	W	74.9	76.3	76.3	30.037	0	0	0	0.007	74.5	57	58.3	75	10.37	0.0734	23	1	100	1
9/26/2012	6:22 PM	74.9	74.9	74.9	66	62.8	2	W	0.03	4	WNW	74.9	76.3	76.3	30.038	0	0	0	0.007	74.5	57	58.3	75	10.37	0.0734	24	1	100	1
9/26/2012	6:23 PM	74.9	74.9	74.9	66	62.8	4	WNW	0.07	7	WNW	74.9	76.3	76.3	30.037	0	0	0	0.007	74.5	58	58.8	75.1	10.57	0.0733	23	1	100	1
9/26/2012	6:24 PM	74.9	74.9	74.9	66	62.8	5	NNW	0.08	9	SW	74.9	76.3	76.3	30.039	0	0	0	0.007	74.3	58	58.6	74.9	10.58	0.0734	24	1	100	1
9/26/2012	6:25 PM	74.8	74.9	74.8	67	63.1	6	W	0.1	9	NW	74.8	76.2	76.2	30.04	0	0	0	0.007	74.3	58	58.6	74.9	10.58	0.0734	23	1	100	1
9/26/2012	6:26 PM	74.7	74.8	74.7	67	63	7	SW	0.12	12	SW	74.7	76.1	76.1	30.042	0	0	0	0.007	74.2	58	58.5	74.7	10.58	0.0734	22	1	95.7	1
9/26/2012	6:27 PM	74.6	74.7	74.6	67	62.9	7	WSW	0.12	11	SW	74.6	76	76	30.042	0	0	0	0.007	74.2	58	58.5	74.7	10.58	0.0734	24	1	100	1
9/26/2012	6:28 PM	74.4	74.6	74.4	68	63.1	5	W	0.08	10	W	74.4	75.9	75.9	30.042	0	0	0	0.007	74.2	58	58.5	74.7	10.58	0.0734	22	1	95.7	1
9/26/2012	6:29 PM	74.3	74.4	74.3	68	63.1	7	WSW	0.12	11	W	74.3	75.8	75.8	30.045	0	0	0	0.006	74	58	58.3	74.5	10.59	0.0735	23	1	100	1
9/26/2012	6:30 PM	74.2	74.3	74.2	69	63.4	9	WSW	0.15	13	W	72.9	75.7	74.4	30.046	0	0	0	0.006	74	58	58.3	74.5	10.59	0.0735	23	1	100	1
9/26/2012	6:31 PM	74	74.1	74	69	63.2	9	WSW	0.15	14	WSW	72.7	75.5	74.2	30.046	0	0	0	0.006	73.8	58	58.1	74.2	10.6	0.0735	23	1	100	1
9/26/2012	6:32 PM	73.7	73.9	73.7	69	62.9	6	SW	0.1	11	SW	73.7	75.1	75.1	30.046	0	0	0	0.006	73.8	58	58.1	74.2	10.6	0.0735	23	1	100	1
9/26/2012	6:33 PM	73.5	73.7	73.5	70	63.1	6	WSW	0.1	9	W	73.5	74.8	74.8	30.047	0	0	0	0.006	73.8	58	58.1	74.2	10.6	0.0735	22	1	95.7	1
9/26/2012	6:34 PM	73.4	73.5	73.4	71	63.4	7	WSW	0.12	11	WSW	73.4	74.8	74.8	30.048	0	0	0	0.006	73.6	58	57.9	74	10.61	0.0735	24	1	100	1
9/26/2012	6:35 PM	73.2	73.4	73.2	71	63.2	6	WSW	0.1	10	W	73.2	74.5	74.5	30.048	0	0	0	0.006	73.6	58	57.9	74	10.61	0.0735	22	1	95.7	1
9/26/2012	6:36 PM	73	73.2	73	72	63.4	6	WSW	0.1	12	WSW	73	74.3	74.3	30.051	0	0	0	0.006	73.6	58	57.9	74	10.61	0.0735	24	1	100	1
9/26/2012	6:37 PM	72.9	73	72.9	72	63.3	6	WSW	0.1	8	W	72.9	74.1	74.1	30.049	0	0	0	0.005	73.5	58	57.8	73.9	10.61	0.0736	22	1	95.7	1
9/26/2012	6:38 PM	72.8	72.9	72.8	72	63.2	5	WSW	0.08	8	SW	72.8	74	74	30.048	0	0	0	0.005	73.5	58	57.8	73.9	10.61	0.0735	22	1	95.7	1
9/26/2012	6:39 PM	72.7	72.8	72.7	73	63.5	5	SW	0.08	9	WSW	72.7	73.9	73.9	30.049	0	0	0	0.005	73.5	58	57.8	73.9	10.61	0.0736	24	1	100	1
9/26/2012	6:40 PM	72.5	72.7	72.5	73	63.4	5	WSW	0.08	7	SW	72.5	73.6	73.6	30.049	0	0	0	0.005	73.3	58	57.6	73.6	10.62	0.0736	23	1	100	1
9/26/2012	6:41 PM	72.4	72.6	72.4	73	63.3	8	W	0.13	13	WSW	71.9	73.5	73	30.049	0	0	0	0.005	73.3	58	57.6	73.6	10.62	0.0736	24	1	100	1
9/26/2012	6:42 PM	72.3	72.4	72.3	74	63.5	7	WSW	0.12	12	WSW	72.3	73.4	73.4	30.048	0	0	0	0.005	73.3	58	57.6	73.6	10.62	0.0736	23	1	100	1
9/26/2012	6:43 PM	72.2	72.3	72.2	74	63.4	6	SW	0.1	9	WSW	72.2	73.2	73.2	30.051	0	0	0	0.005	73.3	58	57.6	73.6	10.62	0.0736	22	1	95.7	1
9/26/2012	6:44 PM	72.1	72.2	72.1	74	63.4	5	WSW	0.08	11	SW	72.1	73.1	73.1	30.049	0	0	0	0.005	73.1	58	57.4	73.4	10.63	0.0736	24	1	100	1
9/26/2012	6:45 PM	72	72.1	72	74	63.3	7	WSW	0.12	10	SW	72	72.9	72.9	30.049	0	0	0	0.005	73.1	58	57.4	73.4	10.63	0.0736	23	1	100	1
9/26/2012	6:46 PM	72	72	71.9	74	63.3	4	WSW	0.07	9	WSW	72	72.9	72.9	30.051	0	0	0	0.005	73.1	58	57.4	73.4	10.63	0.0736	24	1	100	1
9/26/2012	6:47 PM	71.9	71.9	71.9	75	63.5	6	SW	0.1	12	SW	71.9	72.9	72.9	30.051	0	0	0	0.005	73.1	58	57.4	73.4	10.63	0.0736	23	1	100	1
9/26/2012	6:48 PM	71.8	71.9	71.8	75	63.4	3	NNW	0.05	6	SSW	71.8	72.8	72.8	30.051	0	0	0	0.005	73.1	58	57.4	73.4	10.63	0.0736	24	1	100	1
9/26/2012	6:49 PM	71.8	71.8	71.8	75	63.4	4	WSW	0.07	6	WSW	71.8	72.8	72.8	30.049	0	0	0	0.005	73	58	57.3	73.2	10.63	0.0736	23	1	100	1
9/26/2012	6:50 PM	71.7	71.8	71.7	75	63.4	2	WSW	0.03	3	WSW	71.7	72.6	72.6	30.05	0	0	0	0.005	73	58	57.3	73.2	10.63	0.0736	23	1	100	1
9/26/2012	6:51 PM	71.7	71.7	71.7	76	63.7	6	WSW	0.1	11	WSW	71.7	72.7	72.7	30.049	0	0	0	0.005	73	58	57.3	73.2	10.63	0.0736	24	1	100	1
9/26/2012	6:52 PM	71.6	71.7	71.6	76	63.6	6	WSW	0.1	9	WSW	71.6	72.6	72.6	30.05	0	0	0	0.005	73	58	57.3	73.2	10.63	0.0736	23	1	100	1
9/26/2012	6:53 PM	71.5	71.6	71.5	76	63.5	5	WSW	0.08	7	WSW	71.5	72.5	72.5	30.051	0	0	0	0.005	73	58	57.3	73.2	10.63	0.0736	24	1	100	1
9/26/2012	6:54 PM	71.4	71.5	71.4	76	63.4	4	WSW	0.07	5	WSW	71.4	72.4	72.4	30.05	0	0	0	0.004	72.8	58	57.2	72.9	10.64	0.0737	23	1	100	1
9/26/2012	6:55 PM	71.3	71.4	71.3	76	63.3	4	SW	0.07	6	W	71.3	72.3	72.3	30.049	0	0	0	0.004	72.8	58	57.2	72.9	10.64	0.0737	23	1	100	1
9/26/2012	6:56 PM	71.3	71.3	71.3	77	63.7	4	W	0.07	9	WSW	71.3	72.3	72.3	30.05	0	0	0	0.004	72.8	58	57.2	72.9	10.64	0.0737	24	1	100	1
9/26/2012	6:57 PM	71.2	71.3	71.2	77	63.6	2	SSW	0.03	5	WSW	71.2	72.2	72.2	30.049	0	0	0	0.004	72.8	58	57.2	72.9	10.64	0.0737	23	1	100	1
9/26/2012	6:58 PM	71.2	71.2	71.2	77	63.6	5	SW	0.08	7	WSW	71.2	72.2	72.2	30.048	0	0	0	0.004	72.8	58	57.2	72.9	10.64	0.0737	24	1	100	1
9/26/2012	6:59 PM	71.1	71.2	71.1	77	63.5	4	WSW	0.07	7	WSW	71.1	72.1	72.1	30.048	0	0	0	0.004	72.6	58	57	72.6	10.65	0.0737	23	1	100	1
9/26/2012	7:00 PM	71.1	71.2	71.1	77	63.5	4	WSW	0.07	6	W	71.1	72.1	72.1	30.049	0	0	0	0.004	72.6	59	57.4	72.7	10.85	0.0737	24	1	100	1
9/26/2012	7:01 PM	71.1	71.1	71.1	77	63.5	4	SW	0.07	9	W	71.1	72.1	72.1	30.048	0	0	0	0.004	72.6	59	57.4	72.7	10.85	0.0737	22	1	95.7	1
9/26/2012	7:02 PM	71.1	71.1	71.1	77	63.5	5	SW	0.08	10	WSW	71.1	72.1	72.1	30.046	0	0	0	0.004	72.6	59	57.4	72.7	10.85	0.0737	22	1	95.7	1
9/26/2012	7:03 PM	71.1	71.1	71.1	77	63.5	4	WSW	0.07	6	WSW	71.1	72.1	72.1	30.047	0	0	0	0.004	72.4	59	57.3	72.4	10.85	0.0737	23	1	100	1
9/26/2012	7:04 PM	71.1	71.1	71.1	77	63.5	3	WSW	0.05	6	WSW	71.1	72.1	72.1	30.044	0	0	0	0.004	72.4	59	57.3	72.4	10.85	0.0737	23	1	100	1
9/26/2012	7:05 PM	71.1	71.1	71.1	77	63.5	5	WSW	0.08	7	WSW	71.1	72.1	72.1	30.047	0	0	0	0.004	72.4	59	57.3	72.4	10.85	0.0737	24	1	100	1
9/26/2012	7:06 PM	71.1	71.1	71	77	63.5	4	WSW	0.07	6	W	71.1	72.1	72.1	30.045	0	0	0	0.004	72.4	59	57.3	72.4	10.85	0.0737	23	1	100	1
9/26/2012	7:07 PM	71	71.1	71	77	63.4	4	WSW	0.07	5	WSW	71	72	72	30.045	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	23	1	100	1
9/26/2012	7:08 PM	71	71.1	71	77	63.4	3	WSW	0.05	5	WSW	71	72	72	30.045	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	24	1	100	1
9/26/2012	7:09 PM	71.1	71.1	71	77	63.5	3	WSW	0.05	5	WSW	71.1	72.1	72.1	30.047	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	23	1	100	1
9/26/2012	7:10 PM	71	71.1	71	77	63.4	4	WSW	0.07	6	WSW	71	72	72	30.046	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	24	1	100	1
9/26/2012	7:11 PM	71	71	71	77	63.4	1	W	0.02	3	W	71	72	72	30.044	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	23	1	100	1
9/26/2012	7:12 PM	71.1	71.1	71	77	63.5	0	W	0	1	W	71.1	72.1	72.1	30.043	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:13 PM	71	71.1	71	78	63.8	3	WSW	0.05	5	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:14 PM	71	71.1	71	78	63.8	2	WSW	0.03	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:15 PM	71	71	71	78	63.8	3	NNE	0.05	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:16 PM	71	71	71	78	63.8	3	SW	0.05	6	SW	71	72.1	72.1	30.044	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:17 PM	71	71	71	77	63.4	3	WSW	0.05	5	SW	71	72	72	30.043	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	24	1	100	1
9/26/2012	7:18 PM	71	71	71	77	63.4	5	WSW	0.08	7	WSW	71	72	72	30.042	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:19 PM	71.1	71.1	71	77	63.5	5	W	0.08	7	W	71.1	72.1	72.1	30.044	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:20 PM	71.1	71.1	71.1	78	63.9	2	W	0.03	5	W	71.1	72.2	72.2	30.047	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:21 PM

Meteorological Data
Equity IRM

9/26/2012	8:40 PM	71.8	71.8	71.8	75	63.4	1	W	0.02	3	W	71.8	72.8	72.8	30.056	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:41 PM	71.7	71.8	71.7	75	63.4	3	W	0.05	4	W	71.7	72.6	72.6	30.055	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:42 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	4	W	71.7	72.6	72.6	30.054	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:43 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:44 PM	71.7	71.7	71.7	75	63.4	2	W	0.03	3	W	71.7	72.6	72.6	30.057	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:45 PM	71.7	71.7	71.6	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:46 PM	71.6	71.6	71.6	75	63.3	1	W	0.02	3	W	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:47 PM	71.6	71.6	71.6	75	63.3	2	W	0.03	6	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:48 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	6	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:49 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	3	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	24	1	100	1
9/26/2012	8:50 PM	71.5	71.6	71.5	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.06	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:51 PM	71.5	71.6	71.5	76	63.5	0	WSW	0	1	WSW	71.5	72.5	72.5	30.06	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	24	1	100	1
9/26/2012	8:52 PM	71.5	71.5	71.5	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.061	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:53 PM	71.5	71.5	71.5	76	63.5	0	WSW	0	1	WSW	71.5	72.5	72.5	30.062	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	23	1	100	1
9/26/2012	8:54 PM	71.5	71.5	71.5	76	63.5	1	WSW	0.02	3	WSW	71.5	72.5	72.5	30.064	0	0	0	0.005	69.4	60	54.9	68.7	11.05	0.0743	24	1	100	1
9/26/2012	8:55 PM	71.5	71.5	71.5	75	63.2	2	WSW	0.03	5	WSW	71.5	72.4	72.4	30.064	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	8:56 PM	71.4	71.5	71.4	75	63.1	2	WSW	0.03	5	WSW	71.4	72.3	72.3	30.064	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	24	1	100	1
9/26/2012	8:57 PM	71.4	71.5	71.4	75	63.1	1	W	0.02	3	W	71.4	72.3	72.3	30.064	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	8:58 PM	71.4	71.5	71.4	75	63.1	3	W	0.05	5	W	71.4	72.3	72.3	30.064	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	8:59 PM	71.4	71.5	71.4	75	63.1	2	WSW	0.03	5	WSW	71.4	72.3	72.3	30.062	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:00 PM	71.5	71.5	71.4	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.063	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:01 PM	71.5	71.5	71.5	76	63.5	1	WSW	0.02	2	WSW	71.5	72.5	72.5	30.063	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:02 PM	71.5	71.5	71.5	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.061	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:03 PM	71.5	71.5	71.4	75	63.2	0	WSW	0	2	WSW	71.5	72.4	72.4	30.062	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:04 PM	71.5	71.5	71.4	75	63.2	0	WSW	0	1	WSW	71.5	72.4	72.4	30.063	0	0	0	0.005	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:05 PM	71.4	71.5	71.4	76	63.4	1	WSW	0.02	2	WSW	71.4	72.4	72.4	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:06 PM	71.4	71.4	71.4	76	63.4	0	WSW	0	1	WSW	71.4	72.4	72.4	30.065	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	24	1	100	1
9/26/2012	9:07 PM	71.4	71.4	71.4	76	63.4	0	---	0	0	---	71.4	72.4	72.4	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:08 PM	71.4	71.4	71.4	76	63.4	0	---	0	0	---	71.4	72.4	72.4	30.062	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:09 PM	71.4	71.4	71.4	76	63.4	1	WSW	0.02	2	WSW	71.4	72.4	72.4	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	21	1	91.3	1
9/26/2012	9:10 PM	71.4	71.4	71.4	76	63.4	1	WSW	0.02	2	WSW	71.4	72.4	72.4	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:11 PM	71.4	71.4	71.4	76	63.4	1	WSW	0.02	2	WSW	71.4	72.4	72.4	30.061	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:12 PM	71.4	71.4	71.4	76	63.4	0	WSW	0	2	WSW	71.4	72.4	72.4	30.061	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:13 PM	71.4	71.4	71.3	76	63.4	0	WSW	0	1	WSW	71.4	72.4	72.4	30.061	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	24	1	100	1
9/26/2012	9:14 PM	71.3	71.4	71.3	76	63.3	0	---	0	0	---	71.3	72.3	72.3	30.062	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	22	1	95.7	1
9/26/2012	9:15 PM	71.3	71.4	71.3	76	63.3	0	WSW	0	2	WSW	71.3	72.3	72.3	30.062	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	24	1	100	1
9/26/2012	9:16 PM	71.3	71.3	71.3	76	63.3	1	WSW	0.02	2	WSW	71.3	72.3	72.3	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:17 PM	71.3	71.3	71.3	76	63.3	2	WSW	0.03	3	WSW	71.3	72.3	72.3	30.062	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	23	1	100	1
9/26/2012	9:18 PM	71.3	71.3	71.3	76	63.3	1	WSW	0.02	2	WSW	71.3	72.3	72.3	30.063	0	0	0	0.004	69.2	60	54.7	68.6	11.05	0.0743	24	1	100	1
9/26/2012	9:19 PM	71.3	71.3	71.3	76	63.3	2	WSW	0.03	3	WSW	71.3	72.3	72.3	30.062	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	23	1	100	1
9/26/2012	9:20 PM	71.3	71.3	71.3	76	63.3	1	WSW	0.02	1	WSW	71.3	72.3	72.3	30.062	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	24	1	100	1
9/26/2012	9:21 PM	71.3	71.3	71.3	76	63.3	0	---	0	0	---	71.3	72.3	72.3	30.062	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	23	1	100	1
9/26/2012	9:22 PM	71.3	71.3	71.3	76	63.3	0	WSW	0	1	WSW	71.3	72.3	72.3	30.061	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	24	1	100	1
9/26/2012	9:23 PM	71.3	71.3	71.3	76	63.3	1	WSW	0.02	2	WSW	71.3	72.3	72.3	30.062	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	23	1	100	1
9/26/2012	9:24 PM	71.3	71.3	71.3	77	63.7	0	WSW	0	1	WSW	71.3	72.3	72.3	30.061	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	23	1	100	1
9/26/2012	9:25 PM	71.3	71.3	71.3	77	63.7	0	WSW	0	1	WSW	71.3	72.3	72.3	30.063	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0743	24	1	100	1
9/26/2012	9:26 PM	71.3	71.3	71.3	76	63.3	1	WSW	0.02	3	WSW	71.3	72.3	72.3	30.064	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:27 PM	71.3	71.3	71.2	76	63.3	0	WSW	0	2	WSW	71.3	72.3	72.3	30.065	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	24	1	100	1
9/26/2012	9:28 PM	71.3	71.3	71.2	76	63.3	2	WSW	0.03	3	WSW	71.3	72.3	72.3	30.065	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:29 PM	71.2	71.2	71.2	76	63.2	2	WSW	0.03	3	WSW	71.2	72.1	72.1	30.066	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:30 PM	71.2	71.2	71.2	77	63.6	2	WSW	0.03	4	WSW	71.2	72.2	72.2	30.067	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	24	1	100	1
9/26/2012	9:31 PM	71.2	71.2	71.2	76	63.2	3	WSW	0.05	4	WSW	71.2	72.1	72.1	30.068	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:32 PM	71.2	71.2	71.2	75	62.9	2	WSW	0.03	3	WSW	71.2	72	72	30.067	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	24	1	100	1
9/26/2012	9:33 PM	71.2	71.2	71.1	75	62.9	1	WSW	0.02	2	WSW	71.2	72	72	30.068	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:34 PM	71.2	71.2	71.2	75	62.9	0	WSW	0	2	WSW	71.2	72	72	30.067	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	22	1	95.7	1
9/26/2012	9:35 PM	71.2	71.2	71.2	75	62.9	0	WSW	0	1	WSW	71.2	72	72	30.068	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	24	1	100	1
9/26/2012	9:36 PM	71.2	71.2	71.2	75	62.9	1	WSW	0.02	3	WSW	71.2	72	72	30.069	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	23	1	100	1
9/26/2012	9:37 PM	71.3	71.3	71.2	75	63	2	WSW	0.03	3	WSW	71.3	72.2	72.2	30.07	0	0	0	0.004	69	60	54.5	68.4	11.05	0.0744	24	1	100	1
9/26/2012	9:38 PM	71.3	71.3	71.2	75	63	2	WSW	0.03	4	WSW	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:39 PM	71.3	71.3	71.3	75	63	2	WSW	0.03	5	WNW	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:40 PM	71.3	71.3	71.3	75	63	4	NW	0.07	7	NW	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:41 PM	71.3	71.3	71.3	75	63	4	NNW	0.07	6	NNW	71.3	72.2	72.2	30.069	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:42 PM	71.3	71.3	71.3	75	63	2	N	0.03	3	N	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:43 PM	71.3	71.3	71.3	75	63	3	N	0.05	5	NNW	71.3	72.2	72.2	30.069	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:44 PM	71.3	71.3	71.3	75	63	2	NNW	0.03	5	NNW	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:45 PM	71.3	71.3	71.3	75	63	3	NNW	0.05	5	NNW	71.3	72.2	72.2	30.069	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:46 PM	71.3	71.4	71.3	75	63	2	NNW	0.03	3	NNW	71.3	72.2	72.2	30.069	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:47 PM	71.3	71.4	71.3	75	63	2	NNW	0.03	4	NNW	71.3	72.2	72.2	30.07	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:48 PM	71.3	71.4	71.3	75	63	2	NNW	0.03	4	NNW	71.3	72.2	72.2	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:49 PM	71.4	71.4	71.3	75	63.1	1	NNW	0.02	3	NNW	71.4	72.3	72.3	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:50 PM	71.3	71.4	71.3	76	63.3	2	NNW	0.03	3	NNW	71.3	72.3	72.3	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	9:51 PM	71.3	71.4	71.3	76	63.3	2	NNW	0.03	3	NNW	71.3	72.3	72.3	30.069	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:52 PM	71.3	71.3	71.3	76	63.3	2	NNW	0.03	2	NNW	71.3	72.3	72.3	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	9:53 PM	71.3	71.3	71.3	76	63.3	0	NNW	0	1	NNW	71.3	72.3	72.3	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:54 PM	71.2	71.3	71.2	76	63.2	0	NNW	0	1	NNW	71.2	72.1	72.1	30.067	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:55 PM	71.2	71.2	71.2	77	63.6	1	NNW	0.02	3	NNW	71.2	72.2	72.2	30.068	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	9:56 PM	71.2	71.2	71.2	76	63.2	1	NNW	0.02	2	NNW	71.2	72.1	72.1	30.066	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	24	1	100	1
9/26/2012	9:57 PM	71.2	71.2	71.1	76	63.2	0	NNW	0	1	NNW	71.2	72.1	72.1	30.066	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	9:58 PM	71.1	71.2	71.1	77	63.5	0	---	0	0	---	71.1	72.1	72.1	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	9:59 PM	71.1	71.1	71.1	77	63.5	0	---	0	0	---	71.1	72.1	72.1	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	10:00 PM	71.1	71.1	71.1	77	63.5	0	NNW	0	1	NNW	71.1	72.1	72.1	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	10:01 PM	71.1	71.1	71.1	77	63.5	0	NNW	0	1	NNW	71.1	72.1	72.1	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	10:02 PM	71.1	71.1	71	76	63.1	1	NNW	0.02	3	NNW	71.1	72	72	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	10:03 PM	71.1	71.1	71	76	63.1	1	NNW	0.02	3	NNW	71.1	72	72	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	10:04 PM	71.1	71.1	71	76	63.1	2	NNW	0.03	4	NNW	71.1	72	72	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	22	1	95.7	1
9/26/2012	10:05 PM	71.1	71.1	71.1	77	63.5	1	NNW	0.02	2	NNW	71.1	72.1	72.1	30.065	0	0	0	0.004	68.9	60	54.4	68.3	11.05	0.0744	23	1	100	1
9/26/2012	10:06 PM	71.1	71.1	71.1	76	63.1	1	NNW	0.02	2	NNW	71.1	72	72	30.067	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:07 PM	71.1	71.1	71.1	77	63.5	1	NNW	0.02	2	NNW	71.1	72.1	72.1	30.068	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:08 PM	71.1	71.1	71.1	77	63.5	1	NNW	0.02	2	NNW	71.1	72.1	72.1	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:09 PM	71	71.1	71	77	63.4	0	NNW	0	1	NNW	71	72	72	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:10 PM	71.1	71.1	71.1	77	63.5	2	NNW	0.03	3	NNW	71.1	72.1	72.1	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:11 PM	71	71.1	71	76	63.1	2	NNE	0.03	5	NNW	71	71.9	71.9	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:12 PM	71	71	71	77	63.4	0	NNE	0	2	NNE	71	72	72	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	22	1	95.7	1
9/26/2012	10:13 PM	70.9	71	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:14 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:15 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:16 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	4	NNE	70.8	71.8	71.8	30.07	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:17 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	3	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:18 PM	70.7	70.8	70.7	77	63.1	3	NNE	0.05	4	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	24	1	100	1
9/26/2012	10:19 PM	70.7	70.7	70.7	76	62.8	2	NNE	0.03	5	NNE	70.7	71.5

Meteorological Data
Equity IRM

9/26/2012	11:40 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	4	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:41 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	3	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:42 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:43 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:44 PM	70.6	70.6	70.5	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:45 PM	70.5	70.6	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.068	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:46 PM	70.5	70.5	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.066	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:47 PM	70.5	70.5	70.5	78	63.3	2	NNW	0.03	4	NNW	70.5	71.5	71.5	30.067	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:48 PM	70.5	70.5	70.5	78	63.3	0	NNW	0	1	NNW	70.5	71.5	71.5	30.066	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:49 PM	70.5	70.5	70.5	77	62.9	2	NNW	0.03	3	NNW	70.5	71.4	71.4	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:50 PM	70.5	70.5	70.5	77	62.9	3	WSW	0.05	7	W	70.5	71.4	71.4	30.067	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:51 PM	70.6	70.6	70.5	77	63	0	WSW	0	1	WSW	70.6	71.5	71.5	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:52 PM	70.6	70.6	70.6	77	63	2	WSW	0.03	6	N	70.6	71.5	71.5	30.064	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:53 PM	70.6	70.6	70.6	77	63	3	N	0.05	3	N	70.6	71.5	71.5	30.064	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:54 PM	70.6	70.6	70.6	77	63	1	N	0.02	2	N	70.6	71.5	71.5	30.064	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:55 PM	70.7	70.7	70.6	76	62.8	2	N	0.03	4	N	70.7	71.5	71.5	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:56 PM	70.7	70.7	70.7	77	63.1	3	N	0.05	4	N	70.7	71.6	71.6	30.065	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:57 PM	70.7	70.7	70.7	77	63.1	2	N	0.03	4	N	70.7	71.6	71.6	30.064	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:58 PM	70.7	70.7	70.7	76	62.8	2	N	0.03	3	N	70.7	71.5	71.5	30.064	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:59 PM	70.7	70.7	70.7	77	63.1	1	NW	0.02	2	NW	70.7	71.6	71.6	30.063	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	12:00 AM	70.7	70.7	70.7	76	62.8	1	NW	0.02	2	NW	70.7	71.5	71.5	30.063	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	22	1	95.7	1
9/27/2012	12:01 AM	70.7	70.7	70.7	76	62.8	0	---	0	0	---	70.7	71.5	71.5	30.059	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:02 AM	70.7	70.7	70.7	76	62.8	0	---	0	0	---	70.7	71.5	71.5	30.056	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:03 AM	70.7	70.7	70.7	76	62.8	0	---	0	0	---	70.7	71.5	71.5	30.056	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	12:04 AM	70.7	70.7	70.7	76	62.8	0	NW	0	1	NW	70.7	71.5	71.5	30.057	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:05 AM	70.8	70.8	70.7	76	62.9	0	NW	0	1	NW	70.8	71.7	71.7	30.056	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:06 AM	70.8	70.8	70.7	77	63.2	2	NW	0.03	4	NW	70.8	71.8	71.8	30.055	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	12:07 AM	70.7	70.7	70.7	77	63.1	1	NW	0.02	3	NW	70.7	71.6	71.6	30.055	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:08 AM	70.7	70.7	70.7	77	63.1	0	NW	0	1	NW	70.7	71.6	71.6	30.055	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	12:09 AM	70.7	70.7	70.7	77	63.1	1	NW	0.02	2	NW	70.7	71.6	71.6	30.054	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:10 AM	70.7	70.7	70.7	77	63.1	1	NW	0.02	2	NW	70.7	71.6	71.6	30.053	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	12:11 AM	70.7	70.7	70.7	77	63.1	1	NW	0.02	3	NW	70.7	71.6	71.6	30.054	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	22	1	95.7	1
9/27/2012	12:12 AM	70.7	70.7	70.6	77	63.1	2	NW	0.03	4	NW	70.7	71.6	71.6	30.057	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:13 AM	70.6	70.7	70.6	77	63	1	N	0.02	3	N	70.6	71.5	71.5	30.058	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:14 AM	70.6	70.7	70.6	77	63	1	N	0.02	2	N	70.6	71.5	71.5	30.059	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:15 AM	70.7	70.7	70.6	76	62.8	1	N	0.02	3	N	70.7	71.5	71.5	30.06	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:16 AM	70.6	70.7	70.6	77	63	2	N	0.03	3	N	70.6	71.5	71.5	30.06	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:17 AM	70.7	70.7	70.7	77	63.1	1	N	0.02	2	N	70.7	71.6	71.6	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:18 AM	70.7	70.7	70.7	76	62.8	2	N	0.03	4	NW	70.7	71.5	71.5	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:19 AM	70.7	70.7	70.6	76	62.8	1	N	0.02	2	N	70.7	71.5	71.5	30.061	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:20 AM	70.7	70.7	70.7	76	62.8	0	N	0	2	N	70.7	71.5	71.5	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:21 AM	70.7	70.7	70.6	76	62.8	1	N	0.02	3	N	70.7	71.5	71.5	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:22 AM	70.7	70.7	70.7	77	63.1	1	N	0.02	2	N	70.7	71.6	71.6	30.063	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:23 AM	70.7	70.7	70.7	77	63.1	1	N	0.02	3	N	70.7	71.6	71.6	30.064	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:24 AM	70.7	70.7	70.7	77	63.1	2	NNW	0.03	5	NNW	70.7	71.6	71.6	30.063	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	21	1	91.3	1
9/27/2012	12:25 AM	70.7	70.7	70.7	77	63.1	0	NNW	0	5	NNW	70.7	71.6	71.6	30.06	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:26 AM	70.7	70.7	70.7	76	62.8	2	NNW	0.03	3	NNW	70.7	71.5	71.5	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/27/2012	12:27 AM	70.8	70.8	70.7	76	62.9	3	NW	0.05	4	NNW	70.8	71.7	71.7	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:28 AM	70.9	70.9	70.8	76	63	2	NW	0.03	3	NW	70.9	71.8	71.8	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/27/2012	12:29 AM	71	71	70.9	76	63.1	1	NW	0.02	2	NW	71	71.9	71.9	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:30 AM	71.1	71.1	71	76	63.1	1	NW	0.02	3	NW	71.1	72	72	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:31 AM	71.1	71.1	71.1	76	63.1	1	NW	0.02	2	NW	71.1	72	72	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/27/2012	12:32 AM	71.1	71.1	71.1	76	63.1	0	NW	0	2	NW	71.1	72	72	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:33 AM	71.2	71.2	71.1	76	63.2	3	NW	0.05	5	WNW	71.2	72.1	72.1	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/27/2012	12:34 AM	71.2	71.2	71.1	75	62.9	3	WSW	0.05	6	W	71.2	72	72	30.059	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:35 AM	71.2	71.2	71.2	75	62.9	3	WSW	0.05	6	W	71.2	72	72	30.059	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/27/2012	12:36 AM	71.2	71.2	71.2	76	63.2	3	SW	0.05	5	WSW	71.2	72.1	72.1	30.06	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:37 AM	71.2	71.2	71.2	76	63.2	1	WSW	0.02	3	WSW	71.2	72.1	72.1	30.061	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:38 AM	71.1	71.2	71.1	76	63.1	4	WSW	0.07	5	W	71.1	72	72	30.061	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:39 AM	71.1	71.2	71.1	76	63.1	2	WSW	0.03	5	WSW	71.1	72	72	30.061	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:40 AM	71.1	71.1	71.1	76	63.1	2	WSW	0.03	4	WSW	71.1	72	72	30.061	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:41 AM	71.1	71.1	71.1	76	63.1	2	WSW	0.03	4	WSW	71.1	72	72	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:42 AM	71	71.1	71	76	63.1	3	WSW	0.05	4	WSW	71	71.9	71.9	30.063	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:43 AM	71	71	71	77	63.4	2	WSW	0.03	4	WSW	71	72	72	30.062	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:44 AM	71	71	71	76	63.1	2	WSW	0.03	4	WSW	71	71.9	71.9	30.06	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:45 AM	70.9	71	70.9	76	63	2	WSW	0.03	4	WSW	70.9	71.8	71.8	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:46 AM	70.9	70.9	70.9	77	63.3	2	SW	0.03	4	SW	70.9	71.9	71.9	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:47 AM	70.8	70.9	70.8	77	63.2	1	SW	0.02	4	SW	70.8	71.8	71.8	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:48 AM	70.9	70.9	70.8	76	63	2	SW	0.03	5	SW	70.9	71.8	71.8	30.056	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:49 AM	70.8	70.8	70.8	77	63.2	2	SW	0.03	3	SW	70.8	71.8	71.8	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:50 AM	70.8	70.8	70.8	77	63.2	3	SW	0.05	6	SW	70.8	71.8	71.8	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:51 AM	70.8	70.8	70.8	77	63.2	3	SW	0.05	5	SW	70.8	71.8	71.8	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:52 AM	70.7	70.8	70.7	77	63.1	0	SW	0	1	SW	70.7	71.6	71.6	30.056	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:53 AM	70.7	70.7	70.7	77	63.1	1	SW	0.02	3	SW	70.7	71.6	71.6	30.057	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:54 AM	70.7	70.7	70.7	77	63.1	2	SW	0.03	4	SW	70.7	71.6	71.6	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:55 AM	70.6	70.7	70.6	77	63	3	SW	0.05	8	WSW	70.6	71.5	71.5	30.059	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:56 AM	70.6	70.6	70.6	77	63	3	S	0.05	7	S	70.6	71.5	71.5	30.059	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/27/2012	12:57 AM	70.6	70.6	70.6	77	63	1	S	0.02	8	W	70.6	71.5	71.5	30.058	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/27/2012	12:58 AM	70.6	70.6	70.6	77	63	1	S	0.02	3	S	70.6	71.5	71.5	30.059	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	12:59 AM	70.6	70.6	70.6	77	63	3	S	0.05	4	S	70.6	71.5	71.5	30.06	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	1:00 AM	70.5	70.6	70.5	78	63.3	1	S	0.02	2	S	70.5	71.5	71.5	30.058	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	1:01 AM	70.5	70.5	70.5	78	63.3	1	S	0.02	2	S	70.5	71.5	71.5	30.058	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	1:02 AM	70.4	70.5	70.4	78	63.2	2	S	0.03	3	S	70.4	71.4	71.4	30.06	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	1:03 AM	70.4	70.4	70.4	78	63.2	1	S	0.02	3	S	70.4	71.4	71.4	30.061	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/27/2012	1:04 AM	70.4	70.4	70.4	78	63.2	1	S	0.02	2	S	70.4	71.4	71.4	30.06	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/27/2012	1:05 AM	70.3	70.4	70.3	78	63.1	3	S	0.05	4	S	70.3	71.3	71.3	30.058	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:06 AM	70.3	70.3	70.3	78	63.1	3	S	0.05	5	S	70.3	71.3	71.3	30.058	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:07 AM	70.3	70.3	70.3	78	63.1	4	WSW	0.07	6	SW	70.3	71.3	71.3	30.057	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:08 AM	70.3	70.3	70.3	78	63.1	3	WSW	0.05	5	WSW	70.3	71.3	71.3	30.055	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	24	1	100	1
9/27/2012	1:09 AM	70.3	70.3	70.3	79	63.5	2	WSW	0.03	4	WSW	70.3	71.4	71.4	30.056	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:10 AM	70.3	70.3	70.2	78	63.1	1	WSW	0.02	3	WSW	70.3	71.3	71.3	30.055	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:11 AM	70.2	70.3	70.2	79	63.4	1	WSW	0.02	2	WSW	70.2	71.2	71.2	30.056	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:12 AM	70.2	70.2	70.2	79	63.4	2	WSW	0.03	4	WSW	70.2	71.2	71.2	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	23	1	100	1
9/27/2012	1:13 AM	70.1	70.2	70.1	79	63.3	1	WSW	0.02	2	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:14 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	3	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	22	1	95.7	1
9/27/2012	1:15 AM	70.1	70.1	70.1	79	63.3	0	WSW	0	1	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:16 AM	70	70.1	70	79	63.2	2	WSW	0.03	4	WSW	70	71	71	30.056	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	1:17 AM	70	70	70	80	63.5	2	WSW	0.03	4	WSW	70	71.1	71.1	30.06	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:18 AM	70	70	70	80	63.5	3	WSW	0.05	4	WSW	70	71.1	71.1	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:19 AM	69.9	70	69.9	79	63.1	2	WSW	0.03	4	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:20 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	5	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748

Meteorological Data
Equity IRM

9/27/2012	2:40 AM	69.9	69.9	69.9	79	63.1	2	W	0.03	4	W	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:41 AM	69.8	69.9	69.8	79	63	1	W	0.02	4	NNW	69.8	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:42 AM	69.8	69.8	69.8	79	63	3	NNW	0.05	4	NNW	69.8	70.9	70.9	30.06	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:43 AM	69.8	69.8	69.8	80	63.3	0	NNE	0	1	NNE	69.8	71	71	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:44 AM	69.7	69.8	69.7	80	63.3	2	NNW	0.03	5	NW	69.7	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:45 AM	69.7	69.7	69.7	80	63.3	2	NNW	0.03	3	NNW	69.7	70.9	70.9	30.062	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:46 AM	69.7	69.7	69.7	79	62.9	2	NNW	0.03	5	SW	69.7	70.8	70.8	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:47 AM	69.7	69.7	69.6	80	63.3	1	SW	0.02	3	WSW	69.7	70.9	70.9	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:48 AM	69.6	69.7	69.6	79	62.8	2	WSW	0.03	3	WSW	69.6	70.8	70.8	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:49 AM	69.7	69.7	69.6	79	62.9	1	WSW	0.02	3	WSW	69.7	70.8	70.8	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	24	1	100	1
9/27/2012	2:50 AM	69.7	69.7	69.6	79	62.9	3	NNW	0.05	7	NNW	69.7	70.8	70.8	30.057	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:51 AM	69.7	69.7	69.7	79	62.9	1	NNW	0.02	2	NNW	69.7	70.8	70.8	30.056	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:52 AM	69.7	69.7	69.7	79	62.9	1	NNW	0.02	3	NNW	69.7	70.8	70.8	30.056	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	2:53 AM	69.6	69.7	69.6	79	62.8	0	NNW	0	1	NNW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	2:54 AM	69.6	69.6	69.6	79	62.8	1	NNW	0.02	3	NNW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	2:55 AM	69.6	69.7	69.6	79	62.8	1	NNW	0.02	2	NNW	69.6	70.8	70.8	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	2:56 AM	69.6	69.6	69.6	79	62.8	2	NNW	0.03	3	NNW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	2:57 AM	69.6	69.6	69.6	79	62.8	1	NW	0.02	3	NW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	2:58 AM	69.6	69.6	69.6	79	62.8	1	NW	0.02	3	NW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	2:59 AM	69.5	69.6	69.5	78	62.3	4	NNW	0.07	8	N	69.5	70.6	70.6	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	3:00 AM	69.6	69.6	69.5	78	62.4	3	NNW	0.05	5	WNW	69.6	70.7	70.7	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:01 AM	69.6	69.6	69.6	78	62.4	1	WSW	0.02	3	WSW	69.6	70.7	70.7	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	3:02 AM	69.7	69.7	69.6	78	62.5	0	WSW	0	3	WSW	69.7	70.7	70.7	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:03 AM	69.7	69.7	69.7	78	62.5	2	WSW	0.03	4	WSW	69.7	70.7	70.7	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:04 AM	69.7	69.7	69.7	78	62.5	0	WSW	0	1	WSW	69.7	70.7	70.7	30.057	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:05 AM	69.7	69.7	69.7	78	62.5	1	WSW	0.02	2	WSW	69.7	70.7	70.7	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:06 AM	69.6	69.7	69.6	78	62.4	0	WSW	0	1	WSW	69.6	70.7	70.7	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:07 AM	69.6	69.7	69.6	78	62.4	0	WSW	0	1	WSW	69.6	70.7	70.7	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:08 AM	69.6	69.6	69.6	78	62.4	1	WSW	0.02	2	WSW	69.6	70.7	70.7	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:09 AM	69.6	69.6	69.6	79	62.8	2	WSW	0.03	3	WSW	69.6	70.8	70.8	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:10 AM	69.6	69.6	69.6	79	62.8	1	WSW	0.02	3	WSW	69.6	70.8	70.8	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:11 AM	69.5	69.6	69.5	79	62.7	1	WSW	0.02	2	WSW	69.5	70.7	70.7	30.056	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:12 AM	69.6	69.6	69.5	79	62.8	1	WSW	0.02	2	WSW	69.6	70.8	70.8	30.057	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:13 AM	69.5	69.5	69.5	79	62.7	1	W	0.02	2	W	69.5	70.7	70.7	30.057	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	3:14 AM	69.5	69.5	69.5	78	62.3	2	W	0.03	3	W	69.5	70.6	70.6	30.057	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:15 AM	69.5	69.5	69.5	78	62.3	0	W	0	1	W	69.5	70.6	70.6	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:16 AM	69.4	69.5	69.4	79	62.6	0	W	0	1	W	69.4	70.6	70.6	30.057	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:17 AM	69.4	69.5	69.4	78	62.2	0	W	0	2	W	69.4	70.5	70.5	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:18 AM	69.5	69.5	69.4	78	62.3	0	W	0	1	W	69.5	70.6	70.6	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:19 AM	69.5	69.5	69.5	78	62.3	0	W	0	1	W	69.5	70.6	70.6	30.057	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:20 AM	69.5	69.5	69.5	79	62.7	0	W	0	1	W	69.5	70.7	70.7	30.055	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:21 AM	69.5	69.5	69.5	79	62.7	0	W	0	1	W	69.5	70.7	70.7	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:22 AM	69.5	69.5	69.5	79	62.7	2	W	0.03	4	W	69.5	70.7	70.7	30.057	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:23 AM	69.5	69.5	69.5	79	62.7	1	W	0.02	1	W	69.5	70.7	70.7	30.057	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:24 AM	69.5	69.5	69.5	79	62.7	0	W	0	1	W	69.5	70.7	70.7	30.055	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:25 AM	69.5	69.5	69.5	79	62.7	1	W	0.02	2	W	69.5	70.7	70.7	30.055	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:26 AM	69.5	69.5	69.5	78	62.3	0	---	0	0	---	69.5	70.6	70.6	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:27 AM	69.5	69.5	69.5	78	62.3	0	W	0	1	W	69.5	70.6	70.6	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:28 AM	69.5	69.5	69.5	78	62.3	1	W	0.02	2	W	69.5	70.6	70.6	30.055	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:29 AM	69.5	69.6	69.5	77	62	2	WSW	0.03	3	WSW	69.5	70.5	70.5	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:30 AM	69.6	69.6	69.5	78	62.4	1	WSW	0.02	2	WSW	69.6	70.7	70.7	30.055	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:31 AM	69.6	69.6	69.6	77	62.1	1	WSW	0.02	3	WSW	69.6	70.6	70.6	30.053	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:32 AM	69.6	69.6	69.6	77	62.1	2	WSW	0.03	3	WSW	69.6	70.6	70.6	30.052	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:33 AM	69.6	69.6	69.6	78	62.4	2	W	0.03	5	W	69.6	70.7	70.7	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:34 AM	69.6	69.6	69.6	77	62.1	3	W	0.05	4	W	69.6	70.6	70.6	30.052	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:35 AM	69.6	69.6	69.6	78	62.4	3	W	0.05	6	NNE	69.6	70.7	70.7	30.052	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:36 AM	69.6	69.6	69.6	77	62.1	3	WSW	0.05	4	WSW	69.6	70.6	70.6	30.05	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:37 AM	69.7	69.7	69.6	77	62.2	3	NNW	0.05	4	NNW	69.7	70.6	70.6	30.05	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:38 AM	69.7	69.7	69.7	77	62.2	2	NNW	0.03	3	NNW	69.7	70.6	70.6	30.051	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:39 AM	69.7	69.7	69.7	77	62.2	3	NNW	0.05	6	NW	69.7	70.6	70.6	30.053	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:40 AM	69.7	69.7	69.7	77	62.2	2	WNW	0.03	3	WNW	69.7	70.6	70.6	30.053	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:41 AM	69.7	69.7	69.7	77	62.2	1	WNW	0.02	4	W	69.7	70.6	70.6	30.053	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:42 AM	69.7	69.7	69.7	77	62.2	2	W	0.03	4	WNW	69.7	70.6	70.6	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:43 AM	69.7	69.8	69.7	77	62.2	4	WNW	0.07	8	NW	69.7	70.6	70.6	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:44 AM	69.8	69.8	69.7	77	62.3	4	NNW	0.07	5	NNW	69.8	70.7	70.7	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:45 AM	69.7	69.8	69.7	77	62.2	1	N	0.02	3	N	69.7	70.6	70.6	30.054	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	24	1	100	1
9/27/2012	3:46 AM	69.7	69.7	69.7	78	62.5	0	N	0	2	N	69.7	70.7	70.7	30.056	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0749	23	1	100	1
9/27/2012	3:47 AM	69.7	69.7	69.7	78	62.5	2	N	0.03	4	N	69.7	70.7	70.7	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	3:48 AM	69.7	69.7	69.7	78	62.5	2	N	0.03	3	N	69.7	70.7	70.7	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:49 AM	69.6	69.6	69.6	78	62.4	2	N	0.03	4	N	69.6	70.7	70.7	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:50 AM	69.6	69.6	69.6	78	62.4	2	N	0.03	6	N	69.6	70.7	70.7	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:51 AM	69.5	69.6	69.5	78	62.3	2	NE	0.03	3	NE	69.5	70.6	70.6	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:52 AM	69.5	69.5	69.5	78	62.3	2	ENE	0.03	3	ENE	69.5	70.6	70.6	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:53 AM	69.5	69.5	69.5	78	62.3	2	ENE	0.03	4	ENE	69.5	70.6	70.6	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:54 AM	69.5	69.5	69.5	78	62.3	3	NNE	0.05	5	NNE	69.5	70.6	70.6	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:55 AM	69.4	69.5	69.4	78	62.2	2	N	0.03	4	N	69.4	70.5	70.5	30.052	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	3:56 AM	69.4	69.5	69.4	78	62.2	1	N	0.02	3	N	69.4	70.5	70.5	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:57 AM	69.4	69.4	69.4	78	62.2	3	NW	0.05	5	NNE	69.4	70.5	70.5	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	3:58 AM	69.4	69.4	69.4	78	62.2	2	NNE	0.03	4	NNE	69.4	70.5	70.5	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	3:59 AM	69.4	69.4	69.4	78	62.2	2	NNE	0.03	4	NNE	69.4	70.5	70.5	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:00 AM	69.4	69.4	69.4	78	62.2	2	NNE	0.03	2	NNE	69.4	70.5	70.5	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:01 AM	69.4	69.4	69.4	78	62.2	1	NNE	0.02	2	NNE	69.4	70.5	70.5	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:02 AM	69.4	69.4	69.4	78	62.2	2	N	0.03	3	N	69.4	70.5	70.5	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:03 AM	69.4	69.4	69.4	79	62.6	1	N	0.02	3	N	69.4	70.6	70.6	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:04 AM	69.4	69.4	69.4	79	62.6	3	N	0.05	5	NW	69.4	70.6	70.6	30.053	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:05 AM	69.4	69.4	69.3	79	62.6	2	N	0.03	3	N	69.4	70.6	70.6	30.054	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:06 AM	69.3	69.4	69.3	79	62.5	2	N	0.03	3	N	69.3	70.6	70.6	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:07 AM	69.3	69.3	69.3	79	62.5	2	NNE	0.03	5	N	69.3	70.6	70.6	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:08 AM	69.2	69.3	69.2	79	62.4	2	NNW	0.03	4	NNW	69.2	70.5	70.5	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:09 AM	69.2	69.3	69.2	79	62.4	2	N	0.03	3	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:10 AM	69.2	69.2	69.2	79	62.4	3	NNW	0.05	4	NNW	69.2	70.5	70.5	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:11 AM	69.2	69.2	69.2	79	62.4	2	NNW	0.03	3	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:12 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:13 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:14 AM	69.1	69.2	69.1	80	62.7	3	NNW	0.05	4	NNW	69.1	70.6	70.6	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:15 AM	69.1	69.2	69.1	80	62.7	3	NW	0.05	5	NW	69.1	70.6	70.6	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:16 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:17 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:18 AM	69	69.1	69	80	62.6	2	N	0.03	4	NNW	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:19 AM	69	69.1	69	80	62.6	3	N	0.05

Meteorological Data
Equity IRM

9/27/2012	5:40 AM	67.6	67.7	67.6	84	62.6	2	NW	0.03	4	NW	67.6	69	69	30.113	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:41 AM	67.6	67.6	67.6	85	62.9	1	NW	0.02	3	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	22	1	95.7	1
9/27/2012	5:42 AM	67.6	67.6	67.6	85	62.9	0	NW	0	1	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:43 AM	67.6	67.6	67.6	86	63.3	1	NW	0.02	3	NW	67.6	69.1	69.1	30.119	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:44 AM	67.5	67.5	67.5	85	62.8	1	NW	0.02	3	NW	67.5	68.9	68.9	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:45 AM	67.4	67.5	67.4	85	62.7	1	NW	0.02	2	NW	67.4	68.8	68.8	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:46 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:47 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:48 AM	67.4	67.4	67.4	86	63.1	0	---	0	0	---	67.4	68.8	68.8	30.107	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:49 AM	67.3	67.4	67.3	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.106	0.01	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:50 AM	67.3	67.3	67.3	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.105	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/27/2012	5:51 AM	67.3	67.3	67.2	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.109	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:52 AM	67.3	67.3	67.2	86	63	0	NW	0	1	NW	67.3	68.7	68.7	30.115	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/27/2012	5:53 AM	67.2	67.2	67.2	87	63.2	2	NW	0.03	3	NW	67.2	68.6	68.6	30.115	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:54 AM	67.2	67.2	67.2	86	62.9	2	WNW	0.03	3	WNW	67.2	68.6	68.6	30.115	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:55 AM	67.2	67.2	67.2	86	62.9	1	WNW	0.02	2	WNW	67.2	68.6	68.6	30.115	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/27/2012	5:56 AM	67.1	67.2	67.1	86	62.8	1	WNW	0.02	2	WNW	67.1	68.5	68.5	30.117	0	0	0	0.001	65.3	60	51.1	64.5	11.05	0.0751	23	1	100	1
9/27/2012	5:57 AM	67.1	67.1	67.1	87	63.1	1	WNW	0.02	3	WNW	67.1	68.5	68.5	30.117	0	0	0	0.001	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/27/2012	5:58 AM	67.1	67.1	67.1	87	63.1	1	WNW	0.02	2	WNW	67.1	68.5	68.5	30.118	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	5:59 AM	67.1	67.1	67.1	87	63.1	2	WNW	0.03	3	WNW	67.1	68.5	68.5	30.118	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	6:00 AM	67.1	67.1	67.1	87	63.1	2	WNW	0.03	3	WNW	67.1	68.5	68.5	30.118	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	24	1	100	1
9/27/2012	6:01 AM	67	67.1	67	87	63	1	WNW	0.02	2	WNW	67	68.4	68.4	30.118	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	22	1	95.7	1
9/27/2012	6:02 AM	67	67	67	87	63	0	---	0	0	---	67	68.4	68.4	30.118	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	24	1	100	1
9/27/2012	6:03 AM	67	67	67	88	63.3	0	WNW	0	1	WNW	67	68.4	68.4	30.119	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	22	1	95.7	1
9/27/2012	6:04 AM	67	67	67	87	63	0	WNW	0	1	WNW	67	68.4	68.4	30.116	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	6:05 AM	67	67	67	87	63	1	WNW	0.02	2	WNW	67	68.4	68.4	30.117	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	6:06 AM	67	67	67	87	63	1	WNW	0.02	2	WNW	67	68.4	68.4	30.117	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	6:07 AM	67	67	67	87	63	1	WNW	0.02	2	WNW	67	68.4	68.4	30.12	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	24	1	100	1
9/27/2012	6:08 AM	67	67	67	88	63.3	2	NNW	0.03	5	NNW	67	68.4	68.4	30.121	0	0	0	0.001	65.1	60	50.9	64.3	11.05	0.0752	23	1	100	1
9/27/2012	6:09 AM	67	67	67	87	63	2	NNW	0.03	3	NNW	67	68.4	68.4	30.122	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	24	1	100	1
9/27/2012	6:10 AM	67	67	67	88	63.3	1	NNW	0.02	2	NNW	67	68.4	68.4	30.122	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:11 AM	66.9	67	66.9	88	63.2	2	NNW	0.03	4	NNW	66.9	68.3	68.3	30.121	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:12 AM	66.9	66.9	66.9	88	63.2	1	NNW	0.02	2	NNW	66.9	68.3	68.3	30.122	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	24	1	100	1
9/27/2012	6:13 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.123	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:14 AM	66.9	66.9	66.9	87	62.9	1	NNW	0.02	2	NNW	66.9	68.3	68.3	30.124	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	24	1	100	1
9/27/2012	6:15 AM	66.9	67	66.9	88	63.2	0	NNW	0	1	NNW	66.9	68.3	68.3	30.124	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:16 AM	67	67	67	87	63	1	NNW	0.02	3	NNW	67	68.4	68.4	30.122	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:17 AM	67	67	67	87	63	1	NNW	0.02	3	NNW	67	68.4	68.4	30.124	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	24	1	100	1
9/27/2012	6:18 AM	67.1	67.1	67	87	63.1	3	NNW	0.05	5	NNW	67.1	68.5	68.5	30.124	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:19 AM	67.1	67.1	67	87	63.1	2	NNW	0.03	4	NNW	67.1	68.5	68.5	30.125	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	24	1	100	1
9/27/2012	6:20 AM	67.1	67.1	67.1	87	63.1	0	NNW	0	1	NNW	67.1	68.5	68.5	30.125	0	0	0	0.001	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/27/2012	6:21 AM	67.1	67.2	67.1	87	63.1	2	NNW	0.03	4	NNW	67.1	68.5	68.5	30.124	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	24	1	100	1
9/27/2012	6:22 AM	67.1	67.1	67.1	87	63.1	2	NNW	0.03	3	NNW	67.1	68.5	68.5	30.124	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	23	1	100	1
9/27/2012	6:23 AM	67.1	67.1	67.1	87	63.1	1	NNW	0.02	2	NNW	67.1	68.5	68.5	30.123	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	23	1	100	1
9/27/2012	6:24 AM	67.1	67.1	67.1	86	62.8	2	NNW	0.03	4	NNW	67.1	68.5	68.5	30.122	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	24	1	100	1
9/27/2012	6:25 AM	67.1	67.1	67.1	86	62.8	1	NNW	0.02	2	NNW	67.1	68.5	68.5	30.122	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	23	1	100	1
9/27/2012	6:26 AM	67.1	67.1	67.1	87	63.1	1	NNW	0.02	2	NNW	67.1	68.5	68.5	30.122	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	23	1	100	1
9/27/2012	6:27 AM	67.1	67.1	67.1	87	63.1	1	NNW	0.02	2	NNW	67.1	68.5	68.5	30.123	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	23	1	100	1
9/27/2012	6:28 AM	67.1	67.1	67.1	87	63.1	2	NNW	0.03	3	NNW	67.1	68.5	68.5	30.124	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	22	1	95.7	1
9/27/2012	6:29 AM	67.1	67.1	67.1	87	63.1	2	NNW	0.03	4	NNW	67.1	68.5	68.5	30.126	0.01	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	24	1	100	1
9/27/2012	6:30 AM	67	67.1	67	87	63	1	NNW	0.02	2	NNW	67	68.4	68.4	30.129	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0753	22	1	95.7	1
9/27/2012	6:31 AM	67	67	67	87	63	1	NNW	0.02	3	NNW	67	68.4	68.4	30.127	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0753	24	1	100	1
9/27/2012	6:32 AM	66.9	67	66.9	87	62.9	1	NNW	0.02	1	NNW	66.9	68.3	68.3	30.124	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	22	1	95.7	1
9/27/2012	6:33 AM	66.9	66.9	66.9	87	62.9	1	NNW	0.02	3	NNW	66.9	68.3	68.3	30.124	0	0	0	0.001	64.8	60	50.6	64	11.05	0.0752	22	1	95.7	1
9/27/2012	6:34 AM	66.9	66.9	66.9	87	62.9	3	NNW	0.05	4	NNW	66.9	68.3	68.3	30.128	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:35 AM	66.9	66.9	66.9	87	62.9	2	NNW	0.03	4	NNW	66.9	68.3	68.3	30.127	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	22	1	95.7	1
9/27/2012	6:36 AM	66.8	66.9	66.8	87	62.8	2	NW	0.03	2	NW	66.8	68.1	68.1	30.125	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:37 AM	66.8	66.9	66.8	87	62.8	2	NW	0.03	3	NW	66.8	68.1	68.1	30.123	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	22	1	95.7	1
9/27/2012	6:38 AM	66.8	66.8	66.8	87	62.8	1	NW	0.02	2	NW	66.8	68.1	68.1	30.123	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:39 AM	66.8	66.8	66.8	87	62.8	0	NW	0	1	NW	66.8	68.1	68.1	30.122	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	22	1	95.7	1
9/27/2012	6:40 AM	66.8	66.8	66.8	88	63.1	0	---	0	0	---	66.8	68.2	68.2	30.121	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:41 AM	66.8	66.8	66.8	88	63.1	1	NW	0.02	3	NW	66.8	68.2	68.2	30.121	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:42 AM	66.8	66.8	66.8	88	63.1	2	NW	0.03	3	NW	66.8	68.2	68.2	30.124	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:43 AM	66.8	66.8	66.8	88	63.1	2	NW	0.03	3	NW	66.8	68.2	68.2	30.126	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:44 AM	66.8	66.8	66.8	88	63.1	2	NW	0.03	3	NW	66.8	68.2	68.2	30.124	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:45 AM	66.8	66.8	66.8	88	63.1	2	NW	0.03	3	NW	66.8	68.2	68.2	30.125	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:46 AM	66.8	66.8	66.8	88	63.1	1	NW	0.02	3	NW	66.8	68.2	68.2	30.125	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:47 AM	66.8	66.8	66.8	88	63.1	3	NNW	0.05	4	NW	66.8	68.2	68.2	30.126	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	23	1	100	1
9/27/2012	6:48 AM	66.8	66.8	66.8	88	63.1	1	NNW	0.02	2	NNW	66.8	68.2	68.2	30.125	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	24	1	100	1
9/27/2012	6:49 AM	66.7	66.8	66.7	88	63	1	NNW	0.02	2	NNW	66.7	68	68	30.124	0	0	0	0.001	64.6	60	50.4	63.8	11.06	0.0753	22	1	95.7	1
9/27/2012	6:50 AM	66.7	66.8	66.7	88	63	1	NNW	0.02	2	NNW	66.7	68	68	30.124	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	6:51 AM	66.7	66.8	66.7	88	63	1	NNW	0.02	3	NNW	66.7	68	68	30.125	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	6:52 AM	66.7	66.7	66.7	88	63	0	NNW	0	1	NNW	66.7	68	68	30.126	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	6:53 AM	66.8	66.8	66.7	88	63.1	0	NNW	0	1	NNW	66.8	68.2	68.2	30.126	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	6:54 AM	66.8	66.8	66.7	88	63.1	0	NNW	0	1	NNW	66.8	68.2	68.2	30.128	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	6:55 AM	66.8	66.8	66.8	88	63.1	1	NNW	0.02	2	NNW	66.8	68.2	68.2	30.128	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	6:56 AM	66.8	66.8	66.8	88	63.1	1	NNW	0.02	2	NNW	66.8	68.2	68.2	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	6:57 AM	66.8	66.8	66.8	88	63.1	1	NNW	0.02	2	NNW	66.8	68.2	68.2	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	6:58 AM	66.8	66.8	66.8	89	63.5	0	NNW	0	1	NNW	66.8	68.2	68.2	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	6:59 AM	66.7	66.8	66.7	89	63.4	1	NNW	0.02	2	NNW	66.7	68.1	68.1	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:00 AM	66.7	66.8	66.7	89	63.4	2	NNW	0.03	4	NNW	66.7	68.1	68.1	30.132	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:01 AM	66.7	66.7	66.7	88	63	0	NNW	0	1	NNW	66.7	68	68	30.132	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:02 AM	66.7	66.8	66.7	88	63	0	NNW	0	2	NNW	66.7	68	68	30.134	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:03 AM	66.7	66.8	66.7	88	63	0	NNW	0	2	NNW	66.7	68	68	30.133	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	21	1	91.3	1
9/27/2012	7:04 AM	66.8	66.8	66.7	88	63.1	1	NNW	0.02	2	NNW	66.8	68.2	68.2	30.133	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:05 AM	66.8	66.8	66.7	88	63.1	0	NNW	0	1	NNW	66.8	68.2	68.2	30.133	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:06 AM	66.8	66.8	66.8	88	63.1	0	---	0	0	---	66.8	68.2	68.2	30.133	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	22	1	95.7	1
9/27/2012	7:07 AM	66.8	66.8	66.8	88	63.1	0	---	0	0	---	66.8	68.2	68.2	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:08 AM	66.8	66.8	66.8	88	63.1	0	NNW	0	1	NNW	66.8	68.2	68.2	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:09 AM	66.8	66.8	66.8	87	62.8	0	NNW	0	2	NNW	66.8	68.1	68.1	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:10 AM	66.8	66.8	66.8	87	62.8	1	NNW	0.02	2	NNW	66.8	68.1	68.1	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:11 AM	66.8	66.8	66.8	87	62.8	0	NNW	0	1	NNW	66.8	68.1	68.1	30.132	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:12 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:13 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	61	50.7	63.7	11.25	0.0753	23	1	100	1
9/27/2012	7:14 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	62	51.2	63.8	11.45	0.0753	24	1	100	1
9/27/2012	7:15 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/27/2012	7:16 AM	66.9	67	66.9	86	62.6	0	---	0	0	---	66.9	68.2	68.2	30.132	0	0	0	0.001	64.5	64	52	64	11.76	0.0753	23	1	100	1
9/27/2012	7:17 AM	67	67	66.9	87	63	0	---	0	0	---	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:18 AM	67	67	67	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.13	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0752	22	1	95.7	1
9/27/2012	7:19 AM	67	67	67	88	63.3	0	NNW	0	1	NNW	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:20 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30

Meteorological Data
Equity IRM

9/27/2012	8:40 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.147	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:41 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.146	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	24	1	100	1
9/27/2012	8:42 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.145	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:43 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:44 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:45 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:46 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:47 AM	67.6	67.6	67.6	86	63.3	0	---	0	0	---	67.6	69.1	69.1	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:48 AM	67.7	67.7	67.6	86	63.4	0	WSW	0	1	WSW	67.7	69.2	69.2	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:49 AM	67.7	67.7	67.7	86	63.4	0	WSW	0	1	WSW	67.7	69.2	69.2	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:50 AM	67.7	67.8	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:51 AM	67.8	67.8	67.7	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.139	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:52 AM	67.8	67.8	67.8	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:53 AM	67.8	67.8	67.8	85	63.1	0	WSW	0	1	WSW	67.8	69.3	69.3	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:54 AM	67.8	67.8	67.8	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.137	0	0	0	0.002	66.4	72	57.1	66.8	13.75	0.0748	23	1	100	1
9/27/2012	8:55 AM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:56 AM	67.8	67.8	67.8	85	63.1	0	---	0	0	---	67.8	69.3	69.3	30.137	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:57 AM	67.9	67.9	67.8	85	63.2	0	---	0	0	---	67.9	69.4	69.4	30.139	0	0	0	0.002	66.6	73	57.7	67.1	14.02	0.0747	23	1	100	1
9/27/2012	8:58 AM	67.9	67.9	67.8	84	62.9	0	---	0	0	---	67.9	69.3	69.3	30.139	0	0	0	0.002	66.6	75	58.4	67.2	14.45	0.0747	24	1	100	1
9/27/2012	8:59 AM	67.9	67.9	67.9	85	63.2	0	WSW	0	1	WSW	67.9	69.4	69.4	30.139	0	0	0	0.002	66.6	75	58.4	67.2	14.45	0.0747	23	1	100	1
9/27/2012	9:00 AM	67.9	67.9	67.9	85	63.2	0	WSW	0	1	WSW	67.9	69.4	69.4	30.139	0	0	0	0.002	66.6	74	58.1	67.2	14.25	0.0747	24	1	100	1
9/27/2012	9:01 AM	68	68	67.9	85	63.3	0	---	0	0	---	68	69.5	69.5	30.139	0	0	0	0.002	66.7	75	58.5	67.3	14.45	0.0747	23	1	100	1
9/27/2012	9:02 AM	68	68	67.9	84	63	0	---	0	0	---	68	69.5	69.5	30.138	0	0	0	0.002	66.7	75	58.5	67.3	14.45	0.0747	23	1	100	1
9/27/2012	9:03 AM	68.1	68.1	68	85	63.4	0	WSW	0	1	WSW	68.1	69.6	69.6	30.138	0	0	0	0.002	66.7	75	58.5	67.3	14.45	0.0747	24	1	100	1
9/27/2012	9:04 AM	68.1	68.1	68.1	85	63.4	0	WSW	0	1	WSW	68.1	69.6	69.6	30.141	0	0	0	0.002	66.9	75	58.7	67.6	14.45	0.0747	23	1	100	1
9/27/2012	9:05 AM	68.2	68.2	68.1	85	63.5	0	---	0	0	---	68.2	69.8	69.8	30.139	0	0	0	0.002	66.9	75	58.7	67.6	14.45	0.0747	24	1	100	1
9/27/2012	9:06 AM	68.3	68.3	68.2	84	63.3	0	---	0	0	---	68.3	69.8	69.8	30.137	0	0	0	0.002	66.9	75	58.7	67.6	14.45	0.0747	22	1	95.7	1
9/27/2012	9:07 AM	68.3	68.3	68.3	84	63.3	0	WSW	0	1	WSW	68.3	69.8	69.8	30.133	0	0	0	0.002	67	75	58.8	67.7	14.45	0.0746	23	1	100	1
9/27/2012	9:08 AM	68.3	68.3	68.3	85	63.6	0	WSW	0	1	WSW	68.3	69.9	69.9	30.13	0	0	0	0.002	67	75	58.8	67.7	14.45	0.0746	23	1	100	1
9/27/2012	9:09 AM	68.4	68.4	68.3	84	63.4	0	---	0	0	---	68.4	70	70	30.129	0	0	0	0.002	67	75	58.8	67.7	14.45	0.0746	22	1	95.7	1
9/27/2012	9:10 AM	68.4	68.4	68.4	85	63.7	0	---	0	0	---	68.4	70	70	30.128	0	0	0	0.002	67.2	75	59	67.9	14.45	0.0746	24	1	100	1
9/27/2012	9:11 AM	68.4	68.4	68.4	84	63.4	0	---	0	0	---	68.4	70	70	30.126	0	0	0	0.002	67.2	74	58.6	67.9	14.25	0.0746	22	1	95.7	1
9/27/2012	9:12 AM	68.4	68.4	68.4	84	63.4	0	WSW	0	1	WSW	68.4	70	70	30.125	0	0	0	0.002	67.2	75	59	67.9	14.45	0.0746	24	1	100	1
9/27/2012	9:13 AM	68.4	68.4	68.4	84	63.4	0	WSW	0	1	WSW	68.4	70	70	30.122	0	0	0	0.002	67.2	74	58.6	67.9	14.25	0.0746	22	1	95.7	1
9/27/2012	9:14 AM	68.4	68.4	68.4	84	63.4	1	WSW	0.02	1	WSW	68.4	70	70	30.117	0	0	0	0.002	67.4	74	58.8	68.1	14.25	0.0745	23	1	100	1
9/27/2012	9:15 AM	68.4	68.4	68.4	84	63.4	1	WSW	0.02	2	WSW	68.4	70	70	30.113	0	0	0	0.002	67.4	74	58.8	68.1	14.25	0.0745	23	1	100	1
9/27/2012	9:16 AM	68.4	68.4	68.4	84	63.4	1	WSW	0.02	3	WSW	68.4	70	70	30.111	0	0	0	0.002	67.4	74	58.8	68.1	14.25	0.0745	22	1	95.7	1
9/27/2012	9:17 AM	68.4	68.4	68.4	84	63.4	1	S	0.02	3	S	68.4	70	70	30.111	0	0	0	0.002	67.4	74	58.8	68.1	14.25	0.0745	23	1	100	1
9/27/2012	9:18 AM	68.4	68.4	68.4	84	63.4	1	S	0.02	3	S	68.4	70	70	30.112	0	0	0	0.002	67.5	74	58.9	68.2	14.25	0.0745	22	1	95.7	1
9/27/2012	9:19 AM	68.4	68.5	68.4	84	63.4	2	S	0.03	3	S	68.4	70	70	30.11	0	0	0	0.002	67.5	74	58.9	68.2	14.25	0.0745	23	1	100	1
9/27/2012	9:20 AM	68.5	68.5	68.5	84	63.5	2	S	0.03	3	SSE	68.5	70.1	70.1	30.108	0	0	0	0.002	67.5	74	58.9	68.2	14.25	0.0745	24	1	100	1
9/27/2012	9:21 AM	68.5	68.5	68.4	84	63.5	1	SSE	0.02	3	SSE	68.5	70.1	70.1	30.107	0	0	0	0.002	67.5	74	58.9	68.2	14.25	0.0745	23	1	100	1
9/27/2012	9:22 AM	68.5	68.5	68.5	84	63.5	3	SSE	0.05	4	SSE	68.5	70.1	70.1	30.107	0	0	0	0.002	67.7	76	59.9	68.6	14.8	0.0744	24	1	100	1
9/27/2012	9:23 AM	68.5	68.5	68.5	84	63.5	1	SSE	0.02	3	SSE	68.5	70.1	70.1	30.108	0	0	0	0.002	67.7	76	59.9	68.6	14.8	0.0744	23	1	100	1
9/27/2012	9:24 AM	68.5	68.5	68.5	84	63.5	1	SSE	0.02	2	SSE	68.5	70.1	70.1	30.109	0	0	0	0.002	67.7	76	59.9	68.6	14.8	0.0744	24	1	100	1
9/27/2012	9:25 AM	68.5	68.5	68.5	84	63.5	1	SSE	0.02	2	SSE	68.5	70.1	70.1	30.11	0	0	0	0.002	67.7	76	59.9	68.6	14.8	0.0744	23	1	100	1
9/27/2012	9:26 AM	68.6	68.6	68.5	84	63.6	1	SSE	0.02	1	SSE	68.6	70.2	70.2	30.108	0	0	0	0.002	67.7	76	59.9	68.6	14.8	0.0744	23	1	100	1
9/27/2012	9:27 AM	68.6	68.6	68.6	84	63.6	1	SSE	0.02	3	SSE	68.6	70.2	70.2	30.108	0	0	0	0.002	67.9	75	59.7	68.8	14.45	0.0744	24	1	100	1
9/27/2012	9:28 AM	68.6	68.6	68.6	84	63.6	1	SSE	0.02	2	SSE	68.6	70.2	70.2	30.111	0	0	0	0.002	67.9	76	60.1	68.9	14.79	0.0744	23	1	100	1
9/27/2012	9:29 AM	68.7	68.7	68.6	84	63.7	0	SSE	0	2	SSE	68.7	70.4	70.4	30.113	0	0	0	0.003	67.9	75	59.7	68.8	14.45	0.0744	24	1	100	1
9/27/2012	9:30 AM	68.8	68.8	68.7	84	63.8	1	SSE	0.02	2	SSE	68.8	70.5	70.5	30.11	0	0	0	0.003	67.9	76	60.1	68.9	14.79	0.0744	23	1	100	1
9/27/2012	9:31 AM	68.8	68.8	68.8	83	63.4	2	SSE	0.03	3	SSE	68.8	70.4	70.4	30.112	0	0	0	0.003	67.9	75	59.7	68.8	14.45	0.0744	23	1	100	1
9/27/2012	9:32 AM	68.9	68.9	68.8	83	63.5	2	SSE	0.03	2	SSE	68.9	70.6	70.6	30.11	0	0	0	0.003	67.9	75	59.7	68.8	14.45	0.0744	24	1	100	1
9/27/2012	9:33 AM	69	69	68.9	83	63.6	2	SSE	0.03	3	SSE	69	70.7	70.7	30.11	0	0	0	0.003	68	76	60.2	69	14.79	0.0744	23	1	100	1
9/27/2012	9:34 AM	69	69	69	82	63.3	1	SSE	0.02	3	SSE	69	70.6	70.6	30.108	0	0	0	0.003	68	76	60.2	69	14.79	0.0744	24	1	100	1
9/27/2012	9:35 AM	69	69.1	69	83	63.6	1	SSE	0.02	3	SSE	69	70.7	70.7	30.111	0	0	0	0.003	68	76	60.2	69	14.79	0.0744	23	1	100	1
9/27/2012	9:36 AM	69.1	69.1	69.1	83	63.7	1	SSE	0.02	3	SSE	69.1	70.7	70.7	30.114	0	0	0	0.003	68	76	60.2	69	14.79	0.0744	24	1	100	1
9/27/2012	9:37 AM	69.2	69.2	69.1	83	63.8	0	SSE	0	1	SSE	69.2	70.8	70.8	30.113	0	0	0	0.003	68	75	59.8	68.9	14.45	0.0744	23	1	100	1
9/27/2012	9:38 AM	69.2	69.2	69.2	83	63.8	0	SSE	0	2	SSE	69.2	70.8	70.8	30.114	0	0	0	0.003	68	75	59.8	68.9	14.45	0.0744	23	1	100	1
9/27/2012	9:39 AM	69.3	69.3	69.2	82	63.6	1	SSE	0.02	3	SSE	69.3	70.8	70.8	30.116	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	24	1	100	1
9/27/2012	9:40 AM	69.3	69.3	69.3	82	63.6	2	SSE	0.03	3	SSE	69.3	70.8	70.8	30.117	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	23	1	100	1
9/27/2012	9:41 AM	69.3	69.3	69.3	82	63.6	1	SSE	0.02	2	SSE	69.3	70.8	70.8	30.12	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	24	1	100	1
9/27/2012	9:42 AM	69.4	69.4	69.3	82	63.7	1	SSE	0.02	3	SSE	69.4	70.9	70.9	30.121	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	23	1	100	1
9/27/2012	9:43 AM	69.5	69.5	69.4	82	63.8	2	SSE	0.03	4	SE	69.5	70.9	70.9	30.125	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	23	1	100	1
9/27/2012	9:44 AM	69.5	69.5	69.5	82	63.8	1	SE	0.02	1	SE	69.5	70.9	70.9	30.127	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	24	1	100	1
9/27/2012	9:45 AM	69.5	69.5	69.5	83	64.1	2	SE	0.03	3	SE	69.5	71	71	30.128	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	22	1	95.7	1
9/27/2012	9:46 AM	69.6	69.6	69.5	82	63.9	1	SE	0.02	1	SE	69.6	71	71	30.13	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	24	1	100	1
9/27/2012	9:47 AM	69.6	69.7	69.6	82	63.9	0	SE	0	1	SE	69.6	71	71	30.133	0	0	0	0.003	68.2	75	60	69.1	14.45	0.0744	23	1	100	1
9/27/2012	9:48 AM	69.7	69.7	69.7	81	63.6	1	SE	0.02	2	SE	69.7	71	71	30.133	0	0	0	0.003	68.4	74	59.8	69.3	14.25	0.0744	23	1	100	1
9/27/2012	9:49 AM	69.7	69.7	69.7	81	63.6	1	SE	0.02	3	SE	69.7	71	71	30.133	0	0	0	0.003	68.4	74	59.8	69.3	14.25	0.0744	24	1	100	1
9/27/2012	9:50 AM	69.7	69.7	69.7	81	63.6	2	SE	0.03	2	SE	69.7	71	71	30.135	0	0	0	0.003	68.4	74	59.8	69.3	14.25	0.0744	23	1	100	1
9/27/2012	9:51 AM	69.8	69.8	69.7	80	63.3	1	SE	0.02	3	E	69.8	71	71	30.137	0	0	0	0.003	68.4	74	59.8	69.3	14.25	0.0744	24	1	100	1
9/27/2012	9:52 AM	69.8	69.8	69.8	81	63.7	2	ENE	0.03	3	ENE	69.8	71.1	71.1	30.137	0	0	0	0.003	68.4	75	60.2	69.3	14.45	0.0744	23	1	100	1
9/27/2012	9:53 AM	69.9	69.9	69.8	80	63.4	3	NE	0.05	5	NE	69.9	71	71	30.138	0	0	0	0.003	68.4	75	60.2	69.3	14.45	0.0744	24	1	100	1
9/27/2012	9:54 AM	69.9	69.9	69.8	80	63.4	3	NE	0.05	4	NE	69.9	71	71	30.139	0	0	0	0.003	68.4	75	60.2	69.3	14.45	0.0744	23	1	100	1
9/27/2012	9:55 AM	69.8	69.9	69.8	80	63.3	2	NE	0.03	4	NE	69.8	71	71	30.14	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	23	1	100	1
9/27/2012	9:56 AM	69.8	69.9	69.8	79	63	3	NE	0.05	6	E	69.8	70.9	70.9	30.14	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	24	1	100	1
9/27/2012	9:57 AM	69.8	69.8	69.8	79	63	2	NE	0.03	4	NE	69.8	70.9	70.9	30.141	0	0	0	0.003	68.5	75	60.3	69.4	14.45	0.0744	23	1	100	1
9/27/2012	9:58 AM	69.8	69.8	69.8	78	62.6	2	NE	0.03	4	NNE	69.8	70.8	70.8	30.142	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	23	1	100	1
9/27/2012	9:59 AM	69.8	69.8	69.8	79	63	2	NE	0.03	3	NE	69.8	70.9	70.9	30.142	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	23	1	100	1
9/27/2012	10:00 AM	69.9	69.9	69.8	79	63.1	2	NE	0.03	4	NE	69.9	70.9	70.9	30.144	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	22	1	95.7	1
9/27/2012	10:01 AM	69.9	69.9	69.9	78	62.7	2	NE	0.03	4	NE	69.9	70.8	70.8	30.145	0	0	0	0.003	68.5	74	59.9	69.4	14.25	0.0744	23	1	100	1
9/27/2012	10:02 AM	69.9	69.9	69.9	79	63.1	1	NE	0.02	3	NE	69.9	70.9	70.9	30.146	0	0	0	0.003	68.7	74	60.1	69.6	14.25	0.0744	23	1	100	1
9/27/2012	10:03 AM	69.9	69.9	69.9	80	63.4	2	NNW	0.03	5	NNW	69.9	71	71	30.147	0	0	0	0.003	68.7	74	60.1	69.6	14.25	0.0744	23	1	100	1
9/27/2012	10:04 AM	70	70	69.9	79	63.2	1	NNW	0.02	4	NNW	70	71	71	30.147	0	0	0	0.003	68.7	75	60.5	69.7	14.45	0.0743	23	1	100	1
9/27/2012	10:05 AM	70	70	70	79	63.2	2	NE	0.03	3	NE	70	71	71	30.148	0	0	0	0.003	68.7	74	60.1	69.6	14.25	0.0744	23	1	100	1
9/27/2012	10:06 AM	70	70.1	70	78	62.8	3	NE	0.05	6	NE	70	70.9	70.9	30.147	0	0	0	0.003	68.7	75	60.5	69.7	14.45	0.0743	23	1	100	1
9/27/2012	10:07 AM	70.1	70.1	70.1	79	63.3	2	NE	0.03	3	NE	70.1	71.1	71.1	30.149	0	0	0	0.004	68.7	75	60.5	69.7	14.45	0.0744	22	1	95.7	1
9/27/2012	10:08 AM	70.1	70.1	70.1	79	63.3	1	NE	0.02	3	NE	70.1	71.1	71.1	30.149	0	0	0	0.004	68.7	75	60.5	69.7	14.45	0.0744	24	1	100	1
9/27/2012	10:09 AM	70.2	70.2	70.1	79	63.4	2	NE	0.03	3	NE	70.2	71.2	71.2	30.15	0	0	0	0.004	68.7	75	60.5	69.7	14.45	0.0744	22	1	95.7	1
9/27/2012	10:10 AM	70.2	70.2	70.2	78	63	2	NE	0.03	4	NE	70.2	71.1	71.1	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:11 AM	70.2	70.2	70.2	77	62.6	3	ENE	0.05	7	ENE	70.2	71	71	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:12 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	ENE	70.2	71	71	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:13 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	3	ENE	70.2	71	71	30.151	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:14 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	N	70.2	71	71	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:15 AM	70.2	70.2	70.2	77	62.6	3	NNE	0.05	7	NNE	70.2	71	71	30.152	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	24	1	100	1
9/27/2012	10:16 AM	70.1	70.2	70.1	76	62.2	4	NNE	0.07	8	NE	70.1	70.8	70.8	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:17 AM	70.1	70.1	70.1	76	62.2	4	NE	0.07	6	N	70.1	70.8	70.8	30.153	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	24	1	100	1
9/27/2012	10:18 AM	70	70.1	70	76	62.1	3	NNW	0.05	6	NNW	70	70.7	70.7	30.154	0	0	0	0.003	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:19 AM	70	70	70	76	62.1	4	NNW	0.07	8	N	70	70.7	70.7	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:20 AM	69.9	70	69.9	75	61.6	3	NE	0.05	6	N	69.9	70.5	70.5	30.155	0	0	0	0.003	69

Meteorological Data
Equity IRM

9/27/2012	11:40 AM	73.4	73.4	73.3	65	60.9	4	ENE	0.07	8	ENE	73.4	74.3	74.3	30.147	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	22	1	95.7	1
9/27/2012	11:41 AM	73.4	73.5	73.4	63	60	4	ENE	0.07	7	ENE	73.4	74.1	74.1	30.149	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	23	1	100	1
9/27/2012	11:42 AM	73.5	73.5	73.4	63	60.1	2	ENE	0.03	4	ENE	73.5	74.3	74.3	30.151	0	0	0	0.006	74.5	68	63.2	76	12.55	0.0734	23	1	100	1
9/27/2012	11:43 AM	73.5	73.5	73.5	64	60.6	1	NE	0.02	2	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:44 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:45 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.9	68	63.6	76.4	12.55	0.0733	22	1	95.7	1
9/27/2012	11:46 AM	73.7	73.7	73.5	65	61.2	3	NE	0.05	5	N	73.7	74.7	74.7	30.148	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:47 AM	73.8	73.8	73.7	64	60.9	1	NE	0.02	3	NE	73.8	74.8	74.8	30.15	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:48 AM	73.9	73.9	73.8	63	60.5	2	ENE	0.03	5	ENE	73.9	74.9	74.9	30.149	0	0	0	0.006	75.2	68	63.9	76.7	12.54	0.0733	23	1	100	1
9/27/2012	11:49 AM	74	74	73.9	63	60.6	4	NE	0.07	5	NNE	74	75	75	30.15	0	0	0	0.006	75.4	68	64.1	76.9	12.53	0.0732	23	1	100	1
9/27/2012	11:50 AM	74.2	74.2	74.1	63	60.8	3	NE	0.05	5	E	74.2	75.2	75.2	30.149	0	0	0	0.006	75.4	68	64.1	76.9	12.53	0.0732	23	1	100	1
9/27/2012	11:51 AM	74.3	74.3	74.2	61	60	3	ENE	0.05	6	NE	74.3	75.2	75.2	30.148	0	0	0	0.006	75.6	68	64.3	77.2	12.53	0.0732	23	1	100	1
9/27/2012	11:52 AM	74.3	74.3	74.3	61	60	4	E	0.07	6	E	74.3	75.2	75.2	30.146	0	0	0	0.006	75.7	68	64.4	77.3	12.52	0.0732	22	1	95.7	1
9/27/2012	11:53 AM	74.2	74.3	74.2	61	59.9	3	ENE	0.05	5	E	74.2	75	75	30.146	0	0	0	0.006	75.7	67	64	77.1	12.24	0.0732	23	1	100	1
9/27/2012	11:54 AM	74.2	74.2	74.2	61	59.9	2	ENE	0.03	3	ENE	74.2	75	75	30.143	0	0	0	0.006	75.9	67	64.2	77.3	12.23	0.0732	24	1	100	1
9/27/2012	11:55 AM	74.2	74.2	74.2	62	60.3	2	NE	0.03	3	NE	74.2	75.1	75.1	30.143	0	0	0	0.006	76.1	67	64.3	77.6	12.23	0.0731	23	1	100	1
9/27/2012	11:56 AM	74.3	74.3	74.2	62	60.4	4	ENE	0.07	7	ENE	74.3	75.2	75.2	30.142	0	0	0	0.006	76.1	67	64.3	77.6	12.23	0.0731	24	1	100	1
9/27/2012	11:57 AM	74.4	74.4	74.3	62	60.5	3	NE	0.05	7	ENE	74.4	75.4	75.4	30.144	0	0	0	0.007	76.3	67	64.5	77.8	12.22	0.0731	23	1	100	1
9/27/2012	11:58 AM	74.5	74.5	74.4	61	60.2	3	ENE	0.05	8	ENE	74.5	75.4	75.4	30.146	0	0	0	0.007	76.3	66	64.1	77.7	12.02	0.0731	23	1	100	1
9/27/2012	11:59 AM	74.5	74.5	74.5	61	60.2	4	E	0.07	6	NE	74.5	75.4	75.4	30.146	0	0	0	0.007	76.4	67	64.6	77.9	12.22	0.0731	24	1	100	1
9/27/2012	12:00 PM	74.5	74.5	74.5	61	60.2	3	NE	0.05	5	NE	74.5	75.4	75.4	30.145	0	0	0	0.007	76.4	67	64.6	77.9	12.22	0.0731	23	1	100	1
9/27/2012	12:01 PM	74.5	74.5	74.4	61	60.2	3	ENE	0.05	4	ENE	74.5	75.4	75.4	30.143	0	0	0	0.007	76.6	67	64.8	78.1	12.22	0.073	24	1	100	1
9/27/2012	12:02 PM	74.5	74.5	74.5	60	59.7	5	ENE	0.08	7	ENE	74.5	75.3	75.3	30.142	0	0	0	0.007	76.6	65	64	77.9	11.82	0.0731	23	1	100	1
9/27/2012	12:03 PM	74.5	74.5	74.5	61	60.2	4	NE	0.07	7	ENE	74.5	75.4	75.4	30.143	0	0	0	0.007	76.8	66	64.6	78.2	12.01	0.073	24	1	100	1
9/27/2012	12:04 PM	74.6	74.6	74.5	60	59.8	3	NE	0.05	5	ENE	74.6	75.4	75.4	30.143	0	0	0	0.007	76.8	65	64.1	78.1	11.81	0.073	23	1	100	1
9/27/2012	12:05 PM	74.6	74.7	74.6	61	60.3	6	ENE	0.1	14	E	74.6	75.5	75.5	30.144	0	0	0	0.007	77	65	64.3	78.3	11.81	0.073	23	1	100	1
9/27/2012	12:06 PM	74.6	74.6	74.6	61	60.3	6	ENE	0.1	14	E	74.6	75.5	75.5	30.145	0	0	0	0.007	77	66	64.8	78.4	12.01	0.073	24	1	100	1
9/27/2012	12:07 PM	74.4	74.5	74.4	62	60.5	4	NE	0.07	7	NE	74.4	75.4	75.4	30.144	0	0	0	0.007	77.2	66	65	78.6	12.01	0.0729	23	1	100	1
9/27/2012	12:08 PM	74.4	74.4	74.4	63	61	4	ENE	0.07	7	ENE	74.4	75.5	75.5	30.146	0	0	0	0.007	77.3	65	64.6	78.6	11.8	0.0729	24	1	100	1
9/27/2012	12:09 PM	74.4	74.4	74.4	62	60.5	3	NE	0.05	6	NNE	74.4	75.4	75.4	30.145	0	0	0	0.007	77.3	65	64.6	78.6	11.8	0.0729	23	1	100	1
9/27/2012	12:10 PM	74.3	74.4	74.3	63	60.9	5	NE	0.08	7	ENE	74.3	75.3	75.3	30.147	0	0	0	0.006	77.5	64	64.4	78.8	11.6	0.0729	23	1	100	1
9/27/2012	12:11 PM	74.2	74.3	74.2	62	60.3	3	NE	0.05	5	NE	74.2	75.1	75.1	30.146	0	0	0	0.006	77.5	65	64.8	78.9	11.8	0.0729	24	1	100	1
9/27/2012	12:12 PM	74.1	74.2	74.1	63	60.7	3	ENE	0.05	8	ENE	74.1	75.1	75.1	30.146	0	0	0	0.006	77.7	65	65	79.1	11.8	0.0729	23	1	100	1
9/27/2012	12:13 PM	74.1	74.2	74.1	61	59.8	4	ENE	0.07	5	ENE	74.1	74.9	74.9	30.145	0	0	0	0.006	77.7	63	64.1	78.9	11.4	0.0729	24	1	100	1
9/27/2012	12:14 PM	74.2	74.2	74.1	61	59.9	4	ENE	0.07	7	ENE	74.2	75	75	30.145	0	0	0	0.006	77.7	64	64.5	79	11.6	0.0729	23	1	100	1
9/27/2012	12:15 PM	74.1	74.1	74.1	61	59.8	2	ENE	0.03	4	ENE	74.1	74.9	74.9	30.146	0	0	0	0.006	77.9	64	64.7	79.2	11.59	0.0729	24	1	100	1
9/27/2012	12:16 PM	74.1	74.1	74.1	61	59.8	2	ENE	0.03	4	ENE	74.1	74.9	74.9	30.144	0	0	0	0.006	77.9	65	65.2	79.3	11.79	0.0728	23	1	100	1
9/27/2012	12:17 PM	74.1	74.1	74.1	61	59.8	3	ENE	0.05	5	ENE	74.1	74.9	74.9	30.144	0	0	0	0.006	78	64	64.8	79.3	11.59	0.0728	23	1	100	1
9/27/2012	12:18 PM	74.1	74.1	74.1	61	59.8	3	E	0.05	5	E	74.1	74.9	74.9	30.143	0	0	0	0.006	78	63	64.4	79.2	11.39	0.0729	24	1	100	1
9/27/2012	12:19 PM	74.2	74.2	74.1	61	59.9	4	NE	0.07	7	ENE	74.2	75	75	30.143	0	0	0	0.006	78	64	64.8	79.3	11.59	0.0728	23	1	100	1
9/27/2012	12:20 PM	74.2	74.2	74.2	61	59.9	4	ENE	0.07	6	NE	74.2	75	75	30.143	0	0	0	0.006	78.2	64	65	79.6	11.59	0.0728	24	1	100	1
9/27/2012	12:21 PM	74.2	74.2	74.2	61	59.9	3	ENE	0.05	4	ENE	74.2	75	75	30.143	0	0	0	0.006	78.2	63	64.6	79.5	11.39	0.0728	23	1	100	1
9/27/2012	12:22 PM	74.2	74.2	74.2	61	59.9	2	E	0.03	3	E	74.2	75	75	30.144	0	0	0	0.006	78.2	64	65	79.6	11.59	0.0728	23	1	100	1
9/27/2012	12:23 PM	74.3	74.3	74.2	61	60	1	NE	0.02	2	NE	74.3	75.2	75.2	30.142	0	0	0	0.006	78.2	64	65	79.6	11.59	0.0728	24	1	100	1
9/27/2012	12:24 PM	74.3	74.3	74.3	60	59.5	1	NE	0.02	3	NE	74.3	75.1	75.1	30.142	0	0	0	0.006	78.4	64	65.2	79.8	11.58	0.0728	23	1	100	1
9/27/2012	12:25 PM	74.4	74.4	74.3	60	59.6	1	NE	0.02	2	NE	74.4	75.2	75.2	30.143	0	0	0	0.007	78.4	64	65.2	79.8	11.58	0.0728	24	1	100	1
9/27/2012	12:26 PM	74.5	74.5	74.4	61	60.2	1	NE	0.02	3	E	74.5	75.4	75.4	30.144	0	0	0	0.007	78.4	64	65.2	79.8	11.58	0.0728	23	1	100	1
9/27/2012	12:27 PM	74.6	74.6	74.5	61	60.3	1	E	0.02	3	E	74.6	75.5	75.5	30.144	0	0	0	0.007	78.6	64	65.4	80.1	11.58	0.0727	23	1	100	1
9/27/2012	12:28 PM	74.7	74.7	74.6	60	59.9	1	E	0.02	3	ENE	74.7	75.5	75.5	30.145	0	0	0	0.007	78.6	63	64.9	80	11.38	0.0728	23	1	100	1
9/27/2012	12:29 PM	74.8	74.8	74.7	60	60	0	E	0	1	E	74.8	75.7	75.7	30.145	0	0	0	0.007	78.6	63	64.9	80	11.38	0.0728	23	1	100	1
9/27/2012	12:30 PM	74.9	74.9	74.8	59	59.6	4	E	0.07	7	E	74.9	75.7	75.7	30.145	0	0	0	0.007	78.8	63	65.1	80.2	11.37	0.0727	23	1	100	1
9/27/2012	12:31 PM	74.9	74.9	74.9	59	59.6	2	ENE	0.03	4	ENE	74.9	75.7	75.7	30.144	0	0	0	0.007	78.8	63	65.1	80.2	11.37	0.0727	23	1	100	1
9/27/2012	12:32 PM	75	75	74.9	58	59.2	3	ENE	0.05	5	ENE	75	75.7	75.7	30.143	0	0	0	0.007	78.8	63	65.1	80.2	11.37	0.0727	23	1	100	1
9/27/2012	12:33 PM	75.1	75.1	75	59	59.8	2	ENE	0.03	4	ENE	75.1	75.9	75.9	30.142	0	0	0	0.007	79	63	65.3	80.5	11.37	0.0727	22	1	95.7	1
9/27/2012	12:34 PM	75.2	75.2	75.1	59	59.9	3	ENE	0.05	5	ENE	75.2	76	76	30.14	0	0	0	0.007	79	62	64.9	80.3	11.17	0.0727	22	1	95.7	1
9/27/2012	12:35 PM	75.3	75.3	75.2	59	60	2	ENE	0.03	4	ENE	75.3	76.1	76.1	30.142	0	0	0	0.007	79	63	65.3	80.5	11.37	0.0727	23	1	100	1
9/27/2012	12:36 PM	75.3	75.3	75.3	59	60	3	ENE	0.05	5	NE	75.3	76.1	76.1	30.141	0	0	0	0.007	79.2	63	65.5	80.7	11.37	0.0726	23	1	100	1
9/27/2012	12:37 PM	75.3	75.3	75.3	58	59.5	4	ENE	0.07	8	NE	75.3	76	76	30.141	0	0	0	0.007	79.2	63	65.5	80.7	11.37	0.0726	23	1	100	1
9/27/2012	12:38 PM	75.3	75.3	75.3	58	59.5	1	NNE	0.02	3	NNE	75.3	76	76	30.14	0	0	0	0.007	79.3	62	65.1	80.7	11.16	0.0726	23	1	100	1
9/27/2012	12:39 PM	75.4	75.4	75.3	58	59.6	2	NE	0.03	4	NE	75.4	76.1	76.1	30.139	0	0	0	0.007	79.3	62	65.1	80.7	11.16	0.0726	22	1	95.7	1
9/27/2012	12:40 PM	75.5	75.5	75.4	59	60.2	3	ENE	0.05	4	ENE	75.5	76.2	76.2	30.139	0	0	0	0.007	79.3	63	65.6	80.8	11.36	0.0726	24	1	100	1
9/27/2012	12:41 PM	75.5	75.5	75.5	59	60.2	5	ENE	0.08	7	NE	75.5	76.2	76.2	30.141	0	0	0	0.007	79.5	61	64.9	80.8	10.96	0.0726	22	1	95.7	1
9/27/2012	12:42 PM	75.5	75.5	75.5	58	59.7	1	ENE	0.02	3	ENE	75.5	76.1	76.1	30.143	0	0	0	0.007	79.5	60	64.4	80.7	10.77	0.0727	24	1	100	1
9/27/2012	12:43 PM	75.5	75.5	75.5	58	59.7	0	ENE	0	2	ENE	75.5	76.1	76.1	30.14	0	0	0	0.007	79.7	62	65.5	81.2	11.16	0.0726	23	1	100	1
9/27/2012	12:44 PM	75.6	75.6	75.5	59	60.3	1	ENE	0.02	2	ENE	75.6	76.3	76.3	30.139	0	0	0	0.007	79.7	62	65.5	81.2	11.16	0.0726	23	1	100	1
9/27/2012	12:45 PM	75.8	75.8	75.7	58	60	2	ENE	0.03	4	ENE	75.8	76.4	76.4	30.142	0	0	0	0.008	79.7	62	65.5	81.2	11.16	0.0726	23	1	100	1
9/27/2012	12:46 PM	76	76	75.8	58	60.2	3	ENE	0.05	7	ENE	76	76.5	76.5	30.141	0	0	0	0.008	79.9	61	65.2	81.3	10.95	0.0726	23	1	100	1
9/27/2012	12:47 PM	76.1	76.1	76	57	59.8	3	NNE	0.05	6	NNE	76.1	76.6	76.6	30.14	0	0	0	0.008	79.9	62	65.7	81.5	11.15	0.0725	24	1	100	1
9/27/2012	12:48 PM	76.3	76.3	76.2	57	59.9	3	ENE	0.05	6	NNE	76.3	76.8	76.8	30.139	0	0	0	0.008	80.1	62	65.9	81.7	11.15	0.0725	23	1	100	1
9/27/2012	12:49 PM	76.3	76.3	76.3	57	59.9	3	NE	0.05	4	NNE	76.3	76.8	76.8	30.139	0	0	0	0.008	80.1	60	65	81.4	10.75	0.0725	24	1	100	1
9/27/2012	12:50 PM	76.3	76.3	76.3	56	59.4	2	ENE	0.03	4	ENE	76.3	76.7	76.7	30.14	0	0	0	0.008	80.3	61	65.6	81.9	10.95	0.0725	23	1	100	1
9/27/2012	12:51 PM	76.2	76.2	76.2	56	59.4	3	ENE	0.05	5	ENE	76.2	76.6	76.6	30.14	0	0	0	0.008	80.3	61	65.6	81.9	10.95	0.0725	23	1	100	1
9/27/2012	12:52 PM	76	76.1	76	56	59.2	3	ENE	0.05	5	ENE	76	76.4	76.4	30.141	0	0	0	0.008	80.3	60	65.1	81.7	10.75	0.0725	24	1	100	1
9/27/2012	12:53 PM	75.9	76	75.9	56	59.1	1	ENE	0.02	2	ENE	75.9	76.3	76.3	30.142	0	0	0	0.008	80.5	60	65.3	82	10.75	0.0725	23	1	100	1
9/27/2012	12:54 PM	75.8	75.9	75.8	57	59.5	2	ENE	0.03	4	ENE	75.8	76.3	76.3	30.142	0	0	0	0.008	80.5	59	64.9	81.9	10.55	0.0725	24	1	100	1
9/27/2012	12:55 PM	75.9	75.9	75.8	58	60.1	1	ENE	0.02	2	ENE	75.9	76.5	76.5	30.143	0	0	0	0.008	80.5	60	65.3	82	10.75	0.0725	23	1	100	1
9/27/2012	12:56 PM	76	76	75.9	57	59.7	1	ENE	0.02	2	ENE	76	76.5	76.5	30.142	0	0	0	0.008	80.6	60	65.4	82.1	10.75	0.0724	24	1	100	1
9/27/2012	12:57 PM	76	76	76	56	59.2	3	E	0.05	5	E	76	76.4	76.4	30.142	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	22	1	95.7	1
9/27/2012	12:58 PM	76.1	76.1	76	56	59.3	2	NE	0.03	3	NE	76.1	76.5	76.5	30.141	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	12:59 PM	76.1	76.1	76.1	55	58.8	2	NNE	0.03	5	NNE	76.1	76.4	76.4	30.142	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	24	1	100	1
9/27/2012	1:00 PM	76.2	76.2	76.1	56	59.4	3	N	0.05	5	N	76.2	76.6	76.6	30.141	0	0	0	0.008	80.6	60	65.4	82.1	10.75	0.0724	23	1	100	1
9/27/2012	1:01 PM	76.2	76.2	76.2	56	59.4	1	NNW	0.02	3	NNW	76.2	76.6	76.6	30.138	0	0	0	0.008	80.6	59	64.9	82	10.55	0.0725	24	1	100	1
9/27/2012	1:02 PM	76.4	76.4	76.3	56	59.5	1	NE	0.02	3	NE	76.4	76.8	76.8	30.139	0	0	0	0.008	80.8	59	65.1	82.3	10.55	0.0724	23	1	100	1
9/27/2012	1:03 PM	76.5	76.5	76.4	56	59.6	2	NE	0.03	3	NE	76.5	76.9	76.9	30.139	0	0	0	0.008	80.8	58	64.6	82.1	10.35	0.0725	23	1	100	1
9/27/2012	1:04 PM	76.7	76.7	76.6	57	60.3	1	N	0.02	4	N	76.7	77.2	77.2	30.139	0	0	0	0.008	80.8	59	65.1	82.3	10.55	0.0724	24	1	100	1
9/27/2012	1:05 PM	76.7	76.7	76.7	56	59.8	3	ENE	0.05	5	E	76.7	77.1	77.1	30.139	0	0	0	0.008	80.8	60	65.6	82.4	10.75	0.0724	23	1	100	1
9/27/2012	1:06 PM	76.6	76.7	76.6	56	59.7	2	E	0.03	5	E	76.6	77	77	30.139	0	0	0	0.008	81	59	65.3	82.5	10.55	0.0724	24	1	100	1
9/27/2012	1:07 PM	76.6	76.6	76.6	56	59.7	0	E	0	2	E	76.6	77	77	30.138	0	0	0	0.008	81	58	64.8	82.4	10.35	0.0724	23	1	100	1
9/27/2012	1:08 PM	76.5	76.5	76.5	56	59.6	0	E	0	1	E	76.5	76.9	76.9	30.138	0	0	0	0.008	81	59	65.3	82.5	10.55	0.0724	24	1	100	1
9/27/2012	1:09 PM	76.4	76.5	76.4	56	59.5	2	E	0.03	3	E	76.4	76.8	76.8	30.137	0	0	0	0.008	81	59	65.3	82.5	10.55	0.0724	23	1	100	1
9/27/2012	1:10 PM	76.3	76.4	76.3	56	59.4	2	E	0.03	5	E	76.3	76.7	76.7	30.134	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	23	1	100	1
9/27/2012	1:11 PM	76.2	76.3	76.2	56	59.4	2	E	0.03	3	E	76.2	76.6	76.6	30.133	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	24	1	100	1
9/27/2012	1:12 PM	76.1	76.1	76.1	57	59.8	2	E	0.03	5	E	76.1	76.6	76.6	30.132	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	23	1	100	1
9/27/2012	1:13 PM	76	76	76	57	59.7	4	ENE	0.07	8	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	24	1	100	1
9/27/2012	1:14 PM	76	76	76	57	59.7	1	ENE	0.02	4	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:15 PM	76.1	76.1	76	57	59.8	2	ENE	0.03	4	ENE	76.1	76.6	76.6	30.129	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:16 PM	76.2	76.2	76.1	56	59.4	4	ENE	0.07	5	ENE	76.2	76.6	76.6	30.129	0	0	0	0.008	81.4	59	65.7	83.1	10.55	0.0723	23	1	100	1
9/27/2012	1:17 PM	76.3	76.3	76.3	55	58.9	3	ENE	0.05	5	ENE	76.3	76.6	76.6	30.128	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	22	1	95.7	1
9/27/2012	1:18 PM	76.6	76.6	76.3	56	59.7	2	ENE	0.03	3	ENE	76.6	77	77	30.128	0	0	0	0.008	81.6	58	65.4	83.3	10.35	0.0723	23	1	100	1
9/27/2012	1:19 PM	76.7	76.7	76.6	55	59.3	2	ENE	0.03	4	ENE	76.7	77	77	30.127	0	0	0	0.008	81.6	57	64.9	83.1	10.18	0.0723	23	1	100	1
9/27/2012	1:20 PM	76.8	76.8	76.7	55	59.4

Meteorological Data
Equity IRM

9/27/2012	2:40 PM	76	76	76	56	59.2	1	NE	0.02	2	NE	76	76.4	76.4	30.124	0	0	0	0.008	80.5	57	63.9	81.6	10.16	0.0725	24	1	100	1
9/27/2012	2:41 PM	75.9	76	75.9	56	59.1	1	NE	0.02	2	NE	75.9	76.3	76.3	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:42 PM	75.9	75.9	75.9	56	59.1	2	NE	0.03	4	NE	75.9	76.3	76.3	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	24	1	100	1
9/27/2012	2:43 PM	75.8	75.9	75.8	56	59	2	NE	0.03	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	23	1	100	1
9/27/2012	2:44 PM	75.8	75.9	75.8	56	59	0	NE	0	1	NE	75.8	76.2	76.2	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:45 PM	75.8	75.8	75.8	56	59	1	NE	0.02	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	54	62.4	81.3	9.75	0.0726	24	1	100	1
9/18/2012	7:20 PM	75	75	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:21 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.651	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:22 PM	75.1	75.1	75.1	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:23 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.652	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	22	1	95.7	1
9/18/2012	7:24 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.655	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:25 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:26 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:27 PM	75	75.1	75	84	69.8	0	---	0	0	---	75	77.9	77.9	29.65	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0724	23	1	100	1
9/18/2012	7:28 PM	75.1	75.1	75	84	69.9	0	---	0	0	---	75.1	78	78	29.652	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:29 PM	75.1	75.1	75.1	84	69.9	0	---	0	0	---	75.1	78	78	29.653	0	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:30 PM	75	75.1	75	85	70.2	0	---	0	0	---	75	78	78	29.654	0.01	0	0	0.007	73.1	67	61.5	74	12.29	0.0725	22	1	95.7	1
9/18/2012	7:31 PM	74.9	75	74.9	85	70.1	0	---	0	0	---	74.9	77.8	77.8	29.655	0.01	0.57	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:32 PM	74.7	74.8	74.7	86	70.2	0	---	0	0	---	74.7	77.5	77.5	29.655	0	0.4	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:33 PM	74.6	74.7	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.662	0.03	2.27	0	0.007	73.1	67	61.5	74	12.29	0.0725	24	1	100	1
9/18/2012	7:34 PM	74.4	74.6	74.4	88	70.6	0	---	0	0	---	74.4	77.1	77.1	29.666	0.03	2.27	0	0.007	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:35 PM	74.3	74.4	74.3	88	70.5	0	---	0	0	---	74.3	76.9	76.9	29.666	0.01	1.64	0	0.006	73.1	67	61.5	74	12.29	0.0725	23	1	100	1
9/18/2012	7:36 PM	74.2	74.2	74.2	89	70.7	0	---	0	0	---	74.2	76.8	76.8	29.663	0.01	0.92	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:37 PM	74.1	74.1	74.1	89	70.6	0	---	0	0	---	74.1	76.6	76.6	29.664	0.01	0.91	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:38 PM	74.1	74.1	74	89	70.6	0	---	0	0	---	74.1	76.6	76.6	29.667	0	0.28	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:39 PM	74.2	74.2	74.1	89	70.7	0	---	0	0	---	74.2	76.8	76.8	29.669	0	0.19	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:40 PM	74.2	74.2	74.1	88	70.4	0	---	0	0	---	74.2	76.7	76.7	29.669	0	0.14	0	0.006	73	67	61.4	73.9	12.29	0.0725	24	1	100	1
9/18/2012	7:41 PM	74.3	74.3	74.3	88	70.5	0	---	0	0	---	74.3	76.9	76.9	29.663	0	0.12	0	0.006	73	67	61.4	73.9	12.29	0.0725	23	1	100	1
9/18/2012	7:42 PM	74.4	74.4	74.4	87	70.3	0	---	0	0	---	74.4	77	77	29.664	0	0.1	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:43 PM	74.4	74.5	74.4	87	70.3	0	---	0	0	---	74.4	77	77	29.661	0	0.08	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:44 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.654	0	0.07	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:45 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.658	0	0.07	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	24	1	100	1
9/18/2012	7:46 PM	74.5	74.5	74.5	87	70.4	0	---	0	0	---	74.5	77.2	77.2	29.66	0	0.06	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:47 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.667	0	0.05	0	0.007	72.8	67	61.2	73.6	12.29	0.0725	23	1	100	1
9/18/2012	7:48 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.681	0	0.05	0	0.007	72.6	67	61	73.3	12.3	0.0726	24	1	100	1
9/18/2012	7:49 PM	74.6	74.6	74.6	87	70.5	0	---	0	0	---	74.6	77.4	77.4	29.692	0	0.05	0	0.007	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:50 PM	74.6	74.6	74.6	86	70.1	0	---	0	0	---	74.6	77.3	77.3	29.697	0	0.04	0	0.007	72.6	67	61	73.3	12.3	0.0727	24	1	100	1
9/18/2012	7:51 PM	74.3	74.5	74.3	86	69.8	0	---	0	0	---	74.3	76.8	76.8	29.692	0.01	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:52 PM	74	74.3	74	85	69.2	0	---	0	0	---	74	76.2	76.2	29.691	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	24	1	100	1
9/18/2012	7:53 PM	73.7	73.9	73.7	85	68.9	0	---	0	0	---	73.7	75.9	75.9	29.688	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:54 PM	73.4	73.7	73.4	86	69	0	---	0	0	---	73.4	75.6	75.6	29.686	0	0.04	0	0.006	72.6	67	61	73.3	12.3	0.0726	23	1	100	1
9/18/2012	7:55 PM	73.2	73.4	73.2	86	68.8	0	---	0	0	---	73.2	75.4	75.4	29.683	0	0.04	0	0.006	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	7:56 PM	73	73.1	73	86	68.6	0	---	0	0	---	73	75.2	75.2	29.684	0	0.04	0	0.006	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	7:57 PM	72.8	73	72.8	86	68.4	0	---	0	0	---	72.8	74.9	74.9	29.681	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	7:58 PM	72.8	72.8	72.7	86	68.4	0	---	0	0	---	72.8	74.9	74.9	29.682	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	7:59 PM	72.7	72.7	72.7	87	68.6	0	---	0	0	---	72.7	74.9	74.9	29.691	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	23	1	100	1
9/18/2012	8:00 PM	72.7	72.7	72.7	87	68.6	0	---	0	0	---	72.7	74.9	74.9	29.696	0	0.04	0	0.005	72.4	67	60.8	73	12.3	0.0727	24	1	100	1
9/18/2012	8:01 PM	72.6	72.7	72.6	87	68.5	0	---	0	0	---	72.6	74.7	74.7	29.7	0.03	0.06	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:02 PM	72.4	72.6	72.4	88	68.6	0	---	0	0	---	72.4	74.6	74.6	29.698	0.06	5.82	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	24	1	100	1
9/18/2012	8:03 PM	72.1	72.4	72.1	88	68.3	0	---	0	0	---	72.1	74.2	74.2	29.7	0.08	6	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:04 PM	71.8	72.1	71.8	88	68.1	0	---	0	0	---	71.8	73.8	73.8	29.698	0.07	6.55	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:05 PM	71.5	71.8	71.5	89	68.1	0	---	0	0	---	71.5	73.6	73.6	29.708	0.03	4.14	0	0.005	72.3	67	60.7	72.9	12.3	0.0727	23	1	100	1
9/18/2012	8:06 PM	71.2	71.4	71.2	90	68.1	0	---	0	0	---	71.2	73.4	73.4	29.713	0.04	2.54	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	22	1	95.7	1
9/18/2012	8:07 PM	71	71.2	71	90	67.9	0	---	0	0	---	71	73.2	73.2	29.712	0.05	3.35	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	23	1	100	1
9/18/2012	8:08 PM	70.7	70.9	70.7	90	67.6	0	---	0	0	---	70.7	72.8	72.8	29.704	0.06	5.49	0	0.004	72.1	67	60.5	72.6	12.31	0.0728	23	1	100	1
9/18/2012	8:09 PM	70.5	70.7	70.5	90	67.4	0	---	0	0	---	70.5	72.6	72.6	29.698	0.05	3.97	0	0.004	72.1	67	60.5	72.6	12.31	0.0727	23	1	100	1
9/18/2012	8:10 PM	70.3	70.4	70.3	91	67.5	0	---	0	0	---	70.3	72.5	72.5	29.696	0.02	3.35	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	23	1	100	1
9/18/2012	8:11 PM	70.2	70.3	70.2	91	67.4	0	---	0	0	---	70.2	72.3	72.3	29.693	0.01	1.48	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	22	1	95.7	1
9/18/2012	8:12 PM	70.1	70.2	70.1	91	67.3	0	---	0	0	---	70.1	72.2	72.2	29.692	0.01	0.68	0	0.004	71.9	67	60.3	72.3	12.31	0.0728	24	1	100	1
9/18/2012	8:13 PM	70.1	70.1	70.1	91	67.3	0	---	0	0	---	70.1	72.2	72.2	29.69	0	0.41	0	0.004	71.8	67	60.2	72.2	12.31	0.0728	22	1	95.7	1
9/18/2012	8:14 PM	70	70.1	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.692	0	0.26	0	0.003	71.8	67	60.2	72.2	12.31	0.0728	23	1	100	1
9/18/2012	8:15 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.693	0	0.18	0	0.003	71.8	67	60.2	72.2	12.31	0.0728	23	1	100	1
9/18/2012	8:16 PM	69.9	70	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.696	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	22	1	95.7	1
9/18/2012	8:17 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.697	0.01	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	24	1	100	1
9/18/2012	8:18 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.698	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	22	1	95.7	1
9/18/2012	8:19 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.696	0	0.14	0	0.003	71.6	67	60.1	71.9	12.32	0.0728	24	1	100	1
9/18/2012	8:20 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.697	0.01	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	23	1	100	1
9/18/2012	8:21 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.701	0	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	24	1	100	1
9/18/2012	8:22 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.701	0	0.19	0	0.003	71.4	67	59.9	71.6	12.32	0.0729	23	1	100	1
9/18/2012	8:23 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.7	0	0.16	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	23	1	100	1
9/18/2012	8:24 PM	69.9	69.9	69.8	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.699	0	0.12	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	24	1	100	1
9/18/2012	8:25 PM	69.9	69.9	69.8	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.702	0	0.1	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	23	1	100	1
9/18/2012	8:26 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.707	0.01	0.1	0	0.003	71.2	67	59.7	71.4	12.33	0.0729	24	1	100	1
9/18/2012	8:27 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.707	0	0.1	0	0.003	71.1	67	59.6	71.2	12.33	0.073	23	1	100	1
9/18/2012	8:28 PM	69.9	69.9	69.9	93	67.8	0	---	0	0	---	69.9	72.2	72.2	29.708	0	0.1	0	0.003	71.1	67	59.6	71.2	12.33	0.073	23	1	100	1
9/18/2012	8:29 PM	70	70	69.9	93	67.9	0	---	0	0	---	70	72.3	72.3	29.708	0.01	0.21	0	0.003	71.1	67	59.6	71.2	12.33	0.073	24	1	100	1
9/18/2012	8:30 PM	70	70	69.9	93	67.9	0	---	0	0	---	70	72.3	72.3	29.705	0.01	0.43	0	0.003	71.1	67	59.6	71.2	12.33	0.0729	23	1	100	1
9/18/2012	8:31 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.704	0.01	0.72	0	0.003	71.1	67	59.6	71.2	12.33	0.0729	24	1	100	1
9/18/2012	8:32 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.704	0.02	0.9	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:33 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.703	0.01	0.9	0	0.003	70.9	67	59.4	71	12.33	0.073	24	1	100	1
9/18/2012	8:34 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.7	0.02	0.95	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:35 PM	70	70	70	92	67.6	0	---	0	0	---	70	72.2	72.2	29.695	0.01	0.95	0	0.003	70.9	67	59.4	71	12.33	0.073	23	1	100	1
9/18/2012	8:36 PM	69.9	70	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.689	0.01	0.66	0	0.003	70.9	67	59.4	71	12.33	0.0729	23	1	100	1
9/18/2012	8:37 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.686	0	0.48	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:38 PM	69.9	69.9	69.9	92	67.5	0	---	0	0	---	69.9	72.1	72.1	29.683	0.01	0.48	0	0.003	70.7	67	59.2	70.7	12.34	0.073	24	1	100	1
9/18/2012	8:39 PM	69.8	69.9	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.69	0	0.28	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:40 PM	69.8	69.9	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.694	0.01	0.28	0	0.003	70.7	67	59.2	70.7	12.34	0.073	23	1	100	1
9/18/2012	8:41 PM	69.8	69.8	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.698	0	0.31	0	0.003	70.7	67	59.2	70.7	12.34	0.073	24	1	100	1
9/18/2012	8:42 PM	69.8	69.8	69.8	92	67.4	0	---	0	0	---	69.8	72	72	29.704	0.01	0.31	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:43 PM	69.7	69.8	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.708	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	24	1	100	1
9/18/2012	8:44 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.709	0	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:45 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.703	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:46 PM	69.7	69.7	69.7	92	67.3	0	---	0	0	---	69.7	71.9	71.9	29.699	0	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:47 PM	69.6	69.7	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0.01	0.34	0	0.003	70.6	67	59.1	70.6	12.34	0.073	23	1	100	1
9/18/2012	8:48 PM	69.6	69.6	69.6	92	67.2	0	---	0	0	---	69.6	71.8	71.8	29.694	0	0.32	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:49 PM	69.5	69.6	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.697	0.01	0.35	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:50 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	24	1	100	1
9/18/2012	8:51 PM	69.5	69.5	69.5	92	67.1	0	---	0	0	---	69.5	71.7	71.7	29.7	0.01	0.34	0	0.003	70.4	68	59.3	70.4	12.55	0.073	23	1	100	1
9/18/2012	8:52 PM	69.4	69.5	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.29	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	23	1	100	1
9/18/2012	8:53 PM	69.4	69.4	69.4	92	67	0	---	0	0	---	69.4	71.6	71.6	29.696	0	0.19	0	0.003	70.4	67	58.9	70.4	12.34	0.0731	24	1	100	1
9/18/2012	8:54 PM	69.4	69.4	69.4	93	67.3	0	---	0	0	---	69.4	71.6	71.6	29.691	0.01	0.19	0	0.003	70.2	67	58.7	70.1	12.35	0.0731

Meteorological Data
Equity IRM

9/18/2012	10:14 PM	68.7	68.8	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.704	0	0	0	0.003	68.7	67	57.3	68.9	12.38	0.0734	23	1	100	1
9/18/2012	10:15 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.706	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:16 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.708	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:17 PM	68.7	68.8	68.7	93	66.6	0	---	0	0	---	68.7	70.8	70.8	29.71	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:18 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.71	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:19 PM	68.8	68.8	68.7	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.711	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:20 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.713	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:21 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.714	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:22 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:23 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:24 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:25 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:26 PM	68.8	68.8	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	23	1	100	1
9/18/2012	10:27 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.717	0	0	0	0.003	68.5	67	57.1	68.7	12.38	0.0734	24	1	100	1
9/18/2012	10:28 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.717	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:29 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:30 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.717	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:31 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:32 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.716	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:33 PM	68.9	68.9	68.8	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:34 PM	68.8	68.9	68.8	93	66.7	0	---	0	0	---	68.8	70.9	70.9	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:35 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.719	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:36 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:37 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.718	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:38 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.719	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:39 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.72	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	24	1	100	1
9/18/2012	10:40 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.721	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:41 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:42 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.722	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:43 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	22	1	95.7	1
9/18/2012	10:44 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	23	1	100	1
9/18/2012	10:45 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.4	67	57	68.7	12.38	0.0735	22	1	95.7	1
9/18/2012	10:46 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:47 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:48 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:49 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:50 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:51 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:52 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.723	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:53 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:54 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:55 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.722	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	10:56 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.721	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:57 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.722	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	10:58 PM	68.9	69	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	10:59 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	22	1	95.7	1
9/18/2012	11:00 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	11:01 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.725	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:02 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.724	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:03 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.726	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	24	1	100	1
9/18/2012	11:04 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.726	0	0	0	0.003	68.2	67	56.8	68.5	12.39	0.0735	23	1	100	1
9/18/2012	11:05 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.729	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:06 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.729	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:07 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.732	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:08 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.736	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:09 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:10 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:11 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.734	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:12 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.735	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:13 PM	68.9	68.9	68.9	93	66.8	0	---	0	0	---	68.9	71	71	29.736	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:14 PM	69	69	68.9	93	66.9	0	---	0	0	---	69	71.2	71.2	29.737	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	23	1	100	1
9/18/2012	11:15 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.738	0	0	0	0.003	68	67	56.6	68.4	12.39	0.0736	24	1	100	1
9/18/2012	11:16 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.739	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:17 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.741	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:18 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.742	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:19 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.743	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:20 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.745	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:21 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.747	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:22 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:23 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:24 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.752	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:25 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.751	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:26 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.751	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:27 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.75	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:28 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.753	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	23	1	100	1
9/18/2012	11:29 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.755	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:30 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:31 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:32 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:33 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:34 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.754	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	24	1	100	1
9/18/2012	11:35 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.754	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	22	1	95.7	1
9/18/2012	11:36 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:37 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.755	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0736	22	1	95.7	1
9/18/2012	11:38 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:39 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:40 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:41 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.758	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:42 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:43 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:44 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.76	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:45 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:46 PM	69	69	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:47 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:48 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.76	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:49 PM	69	69.1	69	93	66.9	0	---	0	0	---	69	71.2	71.2	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:50 PM	69.1	69.1	69	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	22	1	95.7	1
9/18/2012	11:51 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.761	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:52 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:53 PM	69.1	69.1	69.1	93	67	0	---	0	0	---	69.1	71.3	71.3	29.759	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:54 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:55 PM	69.1	69.1	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	23	1	100	1
9/18/2012	11:56 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.756	0	0	0	0.003	67.9	67	56.5	68.2	12.39	0.0737	24	1	100	1
9/18/2012	11:57 PM	69.1	69.2	69.1	92	66.7	0	---	0	0	---	69.1	71.2	71.2	29.757	0	0	0	0.003	67.9	67	56.5	68.2	12.39

Meteorological Data
Equity IRM

9/19/2012	1:14 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:15 AM	69.2	69.2	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:16 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:17 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:18 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:19 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:20 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:21 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:22 AM	69.2	69.3	69.2	91	66.5	0	---	0	0	---	69.2	71.3	71.3	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:23 AM	69.3	69.3	69.2	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:24 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:25 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	21	1	91.3	1
9/19/2012	1:26 AM	69.3	69.3	69.3	91	66.6	0	---	0	0	---	69.3	71.4	71.4	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:27 AM	69.4	69.4	69.3	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:28 AM	69.4	69.4	69.3	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:29 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:30 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:31 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:32 AM	69.4	69.4	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	1:33 AM	69.4	69.5	69.4	91	66.7	0	---	0	0	---	69.4	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:34 AM	69.5	69.5	69.4	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:35 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:36 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:37 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:38 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:39 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:40 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:41 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:42 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:43 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:44 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:45 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:46 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:47 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:48 AM	69.5	69.6	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:49 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.743	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:50 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:51 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:52 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.747	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	1:53 AM	69.5	69.5	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	1:54 AM	69.6	69.6	69.5	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:55 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:56 AM	69.6	69.6	69.5	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:57 AM	69.5	69.5	69.5	90	66.4	0	---	0	0	---	69.5	71.5	71.5	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	1:58 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	1:59 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:00 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.742	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:01 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.744	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:02 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	23	1	100	1
9/19/2012	2:03 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.745	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0737	24	1	100	1
9/19/2012	2:04 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.746	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:05 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.748	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:06 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:07 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:08 AM	69.6	69.6	69.6	90	66.5	0	---	0	0	---	69.6	71.6	71.6	29.749	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:09 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:10 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.752	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:11 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:12 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	24	1	100	1
9/19/2012	2:13 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:14 AM	69.6	69.6	69.5	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:15 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.75	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:16 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.751	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:17 AM	69.6	69.6	69.5	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:18 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.757	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	22	1	95.7	1
9/19/2012	2:19 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.756	0	0	0	0.003	67.2	67	55.9	67.4	12.41	0.0738	23	1	100	1
9/19/2012	2:20 AM	69.5	69.6	69.5	91	66.8	0	---	0	0	---	69.5	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:21 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:22 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:23 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:24 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:25 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:26 AM	69.6	69.6	69.6	91	66.9	0	---	0	0	---	69.6	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	22	1	95.7	1
9/19/2012	2:27 AM	69.7	69.7	69.6	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:28 AM	69.7	69.7	69.6	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:29 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:30 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:31 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	21	1	91.3	1
9/19/2012	2:32 AM	69.7	69.7	69.7	91	67	0	---	0	0	---	69.7	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:33 AM	69.8	69.8	69.7	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:34 AM	69.8	69.8	69.7	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:35 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:36 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:37 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:38 AM	69.8	69.8	69.8	90	66.7	0	---	0	0	---	69.8	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:39 AM	69.9	69.9	69.8	90	66.8	0	---	0	0	---	69.9	71.9	71.9	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:40 AM	69.9	69.9	69.8	89	66.5	0	---	0	0	---	69.9	71.8	71.8	29.754	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:41 AM	69.8	69.9	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:42 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:43 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.753	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:44 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:45 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:46 AM	69.8	69.8	69.8	89	66.4	0	---	0	0	---	69.8	71.7	71.7	29.758	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:47 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:48 AM	69.7	69.8	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:49 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:50 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.755	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:51 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.756	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:52 AM	69.7	69.7	69.7	90	66.6	0	---	0	0	---	69.7	71.7	71.7	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	23	1	100	1
9/19/2012	2:53 AM	69.7	69.7	69.7	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.757	0	0	0	0.003	67.4	67	56.1	67.6	12.4	0.0737	24	1	100	1
9/19/2012	2:54 AM	69.7	69.7	69.6	89	66.3	0	---	0	0	---	69.7	71.6	71.6	29.

Meteorological Data
Equity IRM

9/19/2012	4:14 AM	63	63.1	63	76	55.3	0	---	0	0	---	63	63	63	29.836	0	0	0.001	0	63.8	69	53.4	63.5	13.03	0.0746	23	1	100	1
9/19/2012	4:15 AM	63	63	63	76	55.3	0	---	0	0	---	63	63	63	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:16 AM	63	63	63	76	55.3	0	---	0	0	---	63	63	63	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:17 AM	63	63	63	77	55.7	0	---	0	0	---	63	63.1	63.1	29.837	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:18 AM	63	63	63	77	55.7	0	---	0	0	---	63	63.1	63.1	29.835	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:19 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.837	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	23	1	100	1
9/19/2012	4:20 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.839	0	0	0.001	0	63.6	69	53.2	63.3	13.02	0.0746	24	1	100	1
9/19/2012	4:21 AM	62.9	62.9	62.9	75	54.9	0	---	0	0	---	62.9	62.8	62.8	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:22 AM	62.9	62.9	62.9	76	55.2	0	---	0	0	---	62.9	62.9	62.9	29.838	0	0	0.001	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:23 AM	62.8	62.8	62.8	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:24 AM	62.8	62.8	62.7	76	55.1	0	---	0	0	---	62.8	62.8	62.8	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:25 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.838	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	24	1	100	1
9/19/2012	4:26 AM	62.7	62.7	62.7	76	55	0	---	0	0	---	62.7	62.7	62.7	29.839	0	0	0.002	0	63.5	69	53.1	63.2	13.02	0.0746	23	1	100	1
9/19/2012	4:27 AM	62.7	62.7	62.7	75	54.7	0	---	0	0	---	62.7	62.6	62.6	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	24	1	100	1
9/19/2012	4:28 AM	62.7	62.7	62.7	75	54.7	0	---	0	0	---	62.7	62.6	62.6	29.836	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:29 AM	62.6	62.7	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.837	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:30 AM	62.6	62.7	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:31 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.838	0	0	0.002	0	63.3	69	53	63	13.02	0.0746	23	1	100	1
9/19/2012	4:32 AM	62.6	62.6	62.6	75	54.6	0	---	0	0	---	62.6	62.5	62.5	29.839	0	0	0.002	0	63.3	69	53	63	13.02	0.0747	24	1	100	1
9/19/2012	4:33 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.839	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:34 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.838	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	24	1	100	1
9/19/2012	4:35 AM	62.6	62.6	62.6	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.842	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	23	1	100	1
9/19/2012	4:36 AM	62.6	62.6	62.5	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.836	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	23	1	100	1
9/19/2012	4:37 AM	62.6	62.6	62.5	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.836	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	24	1	100	1
9/19/2012	4:38 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.836	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:39 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63.2	69	52.9	62.9	13.01	0.0747	24	1	100	1
9/19/2012	4:40 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.837	0	0	0.002	0	63.2	68	52.5	62.8	12.75	0.0747	23	1	100	1
9/19/2012	4:41 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	22	1	95.7	1
9/19/2012	4:42 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:43 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:44 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:45 AM	62.5	62.5	62.5	73	53.7	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:46 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.839	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:47 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.838	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:48 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.841	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	23	1	100	1
9/19/2012	4:49 AM	62.5	62.5	62.5	75	54.5	0	---	0	0	---	62.5	62.3	62.3	29.84	0	0	0.002	0	63	68	52.3	62.6	12.75	0.0747	24	1	100	1
9/19/2012	4:50 AM	62.5	62.5	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:51 AM	62.5	62.6	62.5	74	54.1	0	---	0	0	---	62.5	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:52 AM	62.6	62.6	62.5	74	54.2	0	---	0	0	---	62.6	62.4	62.4	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:53 AM	62.6	62.6	62.6	73	53.8	0	---	0	0	---	62.6	62.4	62.4	29.844	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	4:54 AM	62.6	62.6	62.6	72	53.4	0	---	0	0	---	62.6	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:55 AM	62.6	62.6	62.5	72	53.4	0	---	0	0	---	62.6	62.3	62.3	29.843	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	23	1	100	1
9/19/2012	4:56 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.842	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0747	24	1	100	1
9/19/2012	4:57 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.844	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	4:58 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.846	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	4:59 AM	62.5	62.6	62.5	71	53	0	---	0	0	---	62.5	62.2	62.2	29.845	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	24	1	100	1
9/19/2012	5:00 AM	62.6	62.6	62.5	71	53.1	0	---	0	0	---	62.6	62.3	62.3	29.846	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	5:01 AM	62.5	62.6	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.849	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	22	1	95.7	1
9/19/2012	5:02 AM	62.5	62.6	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.848	0	0	0.002	0	62.9	68	52.2	62.5	12.75	0.0748	23	1	100	1
9/19/2012	5:03 AM	62.5	62.5	62.5	70	52.6	0	---	0	0	---	62.5	62.1	62.1	29.849	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:04 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.852	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:05 AM	62.5	62.6	62.5	68	51.8	0	---	0	0	---	62.5	62	62	29.851	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:06 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.853	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:07 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.853	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:08 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.855	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:09 AM	62.5	62.5	62.5	69	52.2	0	---	0	0	---	62.5	62	62	29.852	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:10 AM	62.6	62.6	62.5	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.856	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:11 AM	62.6	62.6	62.5	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.858	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:12 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.854	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	22	1	95.7	1
9/19/2012	5:13 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.858	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:14 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.857	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	23	1	100	1
9/19/2012	5:15 AM	62.6	62.6	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.861	0	0	0.002	0	62.7	68	52	62.2	12.75	0.0748	24	1	100	1
9/19/2012	5:16 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.861	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:17 AM	62.6	62.6	62.6	66	51.1	0	---	0	0	---	62.6	62	62	29.862	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:18 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.864	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:19 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.864	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:20 AM	62.6	62.6	62.6	67	51.5	0	---	0	0	---	62.6	62.1	62.1	29.869	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:21 AM	62.6	62.6	62.6	66	51.1	0	---	0	0	---	62.6	62	62	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	22	1	95.7	1
9/19/2012	5:22 AM	62.7	62.7	62.6	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.866	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:23 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.869	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:24 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:25 AM	62.7	62.7	62.7	66	51.2	0	---	0	0	---	62.7	62.1	62.1	29.868	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:26 AM	62.7	62.7	62.7	65	50.8	0	---	0	0	---	62.7	62.1	62.1	29.87	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:27 AM	62.6	62.7	62.6	64	50.2	0	---	0	0	---	62.6	61.9	61.9	29.867	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	24	1	100	1
9/19/2012	5:28 AM	62.6	62.7	62.6	63	49.8	0	---	0	0	---	62.6	61.8	61.8	29.866	0	0	0.002	0	62.5	68	51.8	62	12.75	0.0749	23	1	100	1
9/19/2012	5:29 AM	62.6	62.6	62.6	64	50.2	0	---	0	0	---	62.6	61.9	61.9	29.865	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:30 AM	62.5	62.6	62.5	64	50.2	0	---	0	0	---	62.5	61.8	61.8	29.867	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:31 AM	62.5	62.6	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.866	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:32 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.866	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:33 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.867	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:34 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.872	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:35 AM	62.5	62.5	62.5	65	50.6	0	---	0	0	---	62.5	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:36 AM	62.4	62.5	62.4	65	50.5	0	---	0	0	---	62.4	61.7	61.7	29.871	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:37 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.873	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:38 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	23	1	100	1
9/19/2012	5:39 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.4	68	51.7	61.9	12.75	0.0749	24	1	100	1
9/19/2012	5:40 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:41 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.874	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:42 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.875	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:43 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.877	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:44 AM	62.4	62.4	62.4	67	51.3	0	---	0	0	---	62.4	61.8	61.8	29.876	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:45 AM	62.4	62.4	62.4	66	50.9	0	---	0	0	---	62.4	61.8	61.8	29.876	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:46 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.875	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	23	1	100	1
9/19/2012	5:47 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.2	68	51.5	61.7	12.75	0.075	24	1	100	1
9/19/2012	5:48 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.88	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:49 AM	62.3	62.4	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:50 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:51 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.879	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	23	1	100	1
9/19/2012	5:52 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:53 AM	62.3	62.3	62.3	66	50.8	0	---	0	0	---	62.3	61.7	61.7	29.882	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	22	1	95.7	1
9/19/2012	5:54 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.884	0	0	0.002	0	62.1	68	51.4	61.5	12.75	0.075	24	1	100	1
9/19/2012	5:55 AM	62.3	62.3	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.885	0	0	0.002	0	62.1

Meteorological Data
Equity IRM

9/19/2012	7:14 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.925	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	23	1	100	1
9/19/2012	7:15 AM	61.8	61.9	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	23	1	100	1
9/19/2012	7:16 AM	61.8	61.9	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	67	50	60.3	12.53	0.0753	24	1	100	1
9/19/2012	7:17 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.924	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:18 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.925	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:19 AM	61.8	61.8	61.8	63	49.1	0	---	0	0	---	61.8	60.9	60.9	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:20 AM	61.9	61.9	61.8	63	49.2	0	---	0	0	---	61.9	61	61	29.927	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:21 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.928	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	24	1	100	1
9/19/2012	7:22 AM	61.9	61.9	61.9	64	49.6	0	---	0	0	---	61.9	61.1	61.1	29.93	0	0	0.002	0	61	66	49.6	60.2	12.31	0.0753	23	1	100	1
9/19/2012	7:23 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	24	1	100	1
9/19/2012	7:24 AM	62	62	61.9	64	49.7	0	---	0	0	---	62	61.2	61.2	29.931	0	0	0.002	0	61.1	66	49.7	60.3	12.31	0.0753	23	1	100	1
9/19/2012	7:25 AM	62	62	62	62	48.8	0	---	0	0	---	62	61	61	29.928	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	24	1	100	1
9/19/2012	7:26 AM	61.9	62	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.929	0	0	0.002	0	61.3	66	49.8	60.6	12.3	0.0753	23	1	100	1
9/19/2012	7:27 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.93	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	23	1	100	1
9/19/2012	7:28 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.928	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	24	1	100	1
9/19/2012	7:29 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.931	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	23	1	100	1
9/19/2012	7:30 AM	61.9	61.9	61.9	63	49.2	0	---	0	0	---	61.9	61	61	29.929	0	0	0.002	0	61.4	66	49.9	60.7	12.29	0.0753	24	1	100	1
9/19/2012	7:31 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.932	0	0	0.002	0	61.6	66	50.1	60.9	12.29	0.0752	23	1	100	1
9/19/2012	7:32 AM	61.8	61.9	61.8	62	48.6	0	---	0	0	---	61.8	60.8	60.8	29.933	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:33 AM	61.9	61.9	61.8	62	48.7	0	---	0	0	---	61.9	60.9	60.9	29.931	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0752	24	1	100	1
9/19/2012	7:34 AM	61.9	61.9	61.8	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.934	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:35 AM	61.9	61.9	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.933	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:36 AM	61.9	61.9	61.9	60	47.9	0	---	0	0	---	61.9	60.7	60.7	29.935	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:37 AM	61.9	61.9	61.9	60	47.9	0	---	0	0	---	61.9	60.7	60.7	29.935	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:38 AM	61.9	61.9	61.9	61	48.3	0	---	0	0	---	61.9	60.8	60.8	29.938	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:39 AM	61.9	61.9	61.9	59	47.4	0	---	0	0	---	61.9	60.6	60.6	29.944	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	23	1	100	1
9/19/2012	7:40 AM	61.9	61.9	61.9	59	47.4	0	---	0	0	---	61.9	60.6	60.6	29.943	0	0	0.002	0	61.6	65	49.7	60.9	12.02	0.0753	24	1	100	1
9/19/2012	7:41 AM	62	62	61.9	60	48	0	---	0	0	---	62	60.8	60.8	29.944	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	23	1	100	1
9/19/2012	7:42 AM	62	62	61.9	60	48	0	---	0	0	---	62	60.8	60.8	29.943	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	24	1	100	1
9/19/2012	7:43 AM	62	62	62	60	48	0	---	0	0	---	62	60.8	60.8	29.942	0	0	0.002	0	61.8	65	49.9	61.1	12.01	0.0752	23	1	100	1
9/19/2012	7:44 AM	62	62	62	60	48	0	---	0	0	---	62	60.8	60.8	29.944	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:45 AM	62.1	62.1	62	61	48.5	0	---	0	0	---	62.1	61	61	29.944	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:46 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:47 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	24	1	100	1
9/19/2012	7:48 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.945	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	22	1	95.7	1
9/19/2012	7:49 AM	62.2	62.2	62.1	60	48.1	0	---	0	0	---	62.2	61	61	29.947	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:50 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.949	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:51 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.952	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:52 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.951	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:53 AM	62.1	62.2	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.951	0	0	0.002	0	61.8	64	49.5	61	11.81	0.0753	23	1	100	1
9/19/2012	7:54 AM	62.1	62.1	62.1	60	48	0	---	0	0	---	62.1	60.9	60.9	29.952	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:55 AM	62.1	62.1	62.1	61	48.5	0	---	0	0	---	62.1	61	61	29.954	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	22	1	95.7	1
9/19/2012	7:56 AM	62.2	62.2	62.1	61	48.6	0	---	0	0	---	62.2	61.1	61.1	29.955	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:57 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:58 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	7:59 AM	62.2	62.2	62.2	59	47.7	0	---	0	0	---	62.2	61	61	29.954	0	0	0.002	0	61.9	64	49.6	61.1	11.81	0.0753	23	1	100	1
9/19/2012	8:00 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.954	0	0	0.002	0	61.9	63	49.2	61	11.65	0.0753	23	1	100	1
9/19/2012	8:01 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.956	0	0	0.002	0	61.9	63	49.2	61	11.65	0.0753	23	1	100	1
9/19/2012	8:02 AM	62.2	62.2	62.2	60	48.1	0	---	0	0	---	62.2	61	61	29.957	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	24	1	100	1
9/19/2012	8:03 AM	62.2	62.2	62.2	61	48.6	0	---	0	0	---	62.2	61.1	61.1	29.957	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:04 AM	62.3	62.3	62.2	61	48.7	0	---	0	0	---	62.3	61.2	61.2	29.958	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:05 AM	62.3	62.3	62.3	62	49.1	0	---	0	0	---	62.3	61.3	61.3	29.959	0	0	0.002	0	62.1	63	49.4	61.2	11.65	0.0753	23	1	100	1
9/19/2012	8:06 AM	62.4	62.4	62.3	61	48.8	0	---	0	0	---	62.4	61.3	61.3	29.961	0	0	0.002	0	62.2	63	49.4	61.3	11.65	0.0752	24	1	100	1
9/19/2012	8:07 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.959	0	0	0.002	0	62.2	63	49.4	61.3	11.65	0.0752	23	1	100	1
9/19/2012	8:08 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.958	0	0	0.002	0	62.4	63	49.6	61.5	11.65	0.0752	23	1	100	1
9/19/2012	8:09 AM	62.3	62.4	62.3	61	48.7	0	---	0	0	---	62.3	61.2	61.2	29.957	0	0	0.002	0	62.4	63	49.6	61.5	11.65	0.0752	24	1	100	1
9/19/2012	8:10 AM	62.4	62.4	62.3	61	48.8	0	---	0	0	---	62.4	61.3	61.3	29.963	0	0	0.002	0	62.5	63	49.7	61.7	11.65	0.0752	23	1	100	1
9/19/2012	8:11 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.96	0	0	0.002	0	62.5	63	49.7	61.7	11.65	0.0752	24	1	100	1
9/19/2012	8:12 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.961	0	0	0.002	0	62.7	63	49.9	61.9	11.65	0.0752	23	1	100	1
9/19/2012	8:13 AM	62.4	62.4	62.4	60	48.3	0	---	0	0	---	62.4	61.2	61.2	29.961	0	0	0.002	0	62.9	63	50.1	62.1	11.65	0.0751	23	1	100	1
9/19/2012	8:14 AM	62.5	62.5	62.4	60	48.4	0	---	0	0	---	62.5	61.3	61.3	29.961	0	0	0.002	0	62.9	63	50.1	62.1	11.65	0.0751	24	1	100	1
9/19/2012	8:15 AM	62.5	62.5	62.5	60	48.4	0	---	0	0	---	62.5	61.3	61.3	29.963	0	0	0.002	0	63	62	49.8	62.1	11.45	0.0751	23	1	100	1
9/19/2012	8:16 AM	62.7	62.7	62.5	61	49.1	0	---	0	0	---	62.7	61.7	61.7	29.964	0	0	0.002	0	63.2	62	50	62.3	11.45	0.0751	24	1	100	1
9/19/2012	8:17 AM	62.7	62.7	62.6	60	48.6	0	---	0	0	---	62.7	61.6	61.6	29.965	0	0	0.002	0	63.3	62	50.1	62.4	11.45	0.0751	23	1	100	1
9/19/2012	8:18 AM	62.8	62.8	62.7	59	48.3	0	---	0	0	---	62.8	61.6	61.6	29.963	0	0	0.002	0	63.3	62	50.1	62.4	11.45	0.0751	24	1	100	1
9/19/2012	8:19 AM	62.9	62.9	62.8	59	48.3	0	---	0	0	---	62.9	61.7	61.7	29.964	0	0	0.001	0	63.5	62	50.2	62.7	11.45	0.075	23	1	100	1
9/19/2012	8:20 AM	63	63	62.9	59	48.4	0	---	0	0	---	63	61.8	61.8	29.962	0	0	0.001	0	63.6	62	50.3	62.8	11.45	0.075	23	1	100	1
9/19/2012	8:21 AM	63	63	63	59	48.4	0	---	0	0	---	63	61.8	61.8	29.961	0	0	0.001	0	63.8	62	50.5	63	11.45	0.075	24	1	100	1
9/19/2012	8:22 AM	63.1	63.1	63	59	48.5	0	---	0	0	---	63.1	62	62	29.961	0	0	0.001	0	64.1	61	50.4	63.3	11.25	0.0749	23	1	100	1
9/19/2012	8:23 AM	63.1	63.1	63.1	58	48.1	0	---	0	0	---	63.1	61.9	61.9	29.961	0	0	0.001	0	64.3	61	50.6	63.5	11.25	0.0749	24	1	100	1
9/19/2012	8:24 AM	63.2	63.2	63.1	58	48.2	0	---	0	0	---	63.2	62	62	29.962	0	0	0.001	0	64.5	61	50.7	63.7	11.25	0.0749	23	1	100	1
9/19/2012	8:25 AM	63.2	63.2	63.2	58	48.2	0	---	0	0	---	63.2	62	62	29.961	0	0	0.001	0	64.8	61	51	64.1	11.25	0.0748	23	1	100	1
9/19/2012	8:26 AM	63.2	63.3	63.2	57	47.7	0	---	0	0	---	63.2	61.9	61.9	29.962	0	0	0.001	0	65.1	61	51.3	64.4	11.25	0.0748	24	1	100	1
9/19/2012	8:27 AM	63.4	63.4	63.2	58	48.4	0	---	0	0	---	63.4	62.2	62.2	29.966	0	0	0.001	0	65.4	61	51.6	64.7	11.25	0.0747	23	1	100	1
9/19/2012	8:28 AM	63.5	63.5	63.4	58	48.5	0	---	0	0	---	63.5	62.4	62.4	29.969	0	0	0.001	0	65.8	60	51.5	65.1	11.05	0.0747	24	1	100	1
9/19/2012	8:29 AM	63.7	63.7	63.6	59	49.1	0	---	0	0	---	63.7	62.7	62.7	29.967	0	0	0.001	0	66.1	60	51.8	65.4	11.05	0.0746	23	1	100	1
9/19/2012	8:30 AM	63.7	63.8	63.7	56	47.7	0	---	0	0	---	63.7	62.4	62.4	29.969	0	0	0.001	0	66.6	59	51.8	65.9	10.95	0.0746	23	1	100	1
9/19/2012	8:31 AM	63.7	63.8	63.7	56	47.7	0	---	0	0	---	63.7	62.4	62.4	29.966	0	0	0.001	0	66.9	59	52.1	66.3	10.95	0.0745	23	1	100	1
9/19/2012	8:32 AM	63.6	63.6	63.6	57	48.1	0	---	0	0	---	63.6	62.4	62.4	29.967	0	0	0.001	0	67	59	52.2	66.4	10.95	0.0745	23	1	100	1
9/19/2012	8:33 AM	63.5	63.6	63.5	57	48	0	---	0	0	---	63.5	62.3	62.3	29.967	0	0	0.001	0	67.2	59	52.4	66.7	10.95	0.0744	24	1	100	1
9/19/2012	8:34 AM	63.4	63.5	63.4	57	47.9	0	---	0	0	---	63.4	62.2	62.2	29.967	0	0	0.001	0	67.5	59	52.7	67	10.95	0.0744	23	1	100	1
9/19/2012	8:35 AM	63.4	63.4	63.4	56	47.4	0	---	0	0	---	63.4	62.1	62.1	29.968	0	0	0.001	0	67.7	58	52.4	67.2	10.75	0.0744	23	1	100	1
9/19/2012	8:36 AM	63.3	63.3	63.3	56	47.3	0	---	0	0	---	63.3	62	62	29.966	0	0	0.001	0	67.7	58	52.4	67.2	10.75	0.0744	23	1	100	1
9/19/2012	8:37 AM	63.2	63.3	63.2	57	47.7	0	---	0	0	---	63.2	61.9	61.9	29.968	0	0	0.001	0	67.9	58	52.6	67.4	10.75	0.0743	23	1	100	1
9/19/2012	8:38 AM	63.2	63.2	63.2	56	47.2	0	---	0	0	---	63.2	61.9	61.9	29.967	0	0	0.001	0	68	58	52.7	67.5	10.75	0.0743	24	1	100	1
9/19/2012	8:39 AM	63.2	63.2	63.2	56	47.2	0	---	0	0	---	63.2	61.9	61.9	29.968	0	0	0.001	0	68	58	52.7	67.5	10.75	0.0743	23	1	100	1
9/19/2012	8:40 AM	63.1	63.2	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.969	0	0	0.001	0	68.2	58	52.9	67.6	10.75	0.0743	23	1	100	1
9/19/2012	8:41 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.97	0	0	0.001	0	68.2	58	52.9	67.6	10.75	0.0743	23	1	100	1
9/19/2012	8:42 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.972	0	0	0.001	0	68.4	58	53	67.8	10.75	0.0743	22	1	95.7	1
9/19/2012	8:43 AM	63.1	63.1	63.1	58	48.1	0	---	0	0	---	63.1	61.9	61.9	29.968	0	0	0.001	0	68.4	57	52.6	67.7	10.58	0.0743	24	1	100	1
9/19/2012	8:44 AM	63.1	63.1	63.1	57	47.6	0	---	0	0	---	63.1	61.8	61.8	29.969	0	0	0.001	0	68.4	57	52.6	67.7	10.58	0.0743	22	1	95.7	1
9/19/2012	8:45 AM	63	63.1	63	58	48	0	---	0	0	---	63	61.8	61.8	29.971	0	0	0.001	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:46 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.971	0	0	0.001	0	68.5	57	52.7	67.8	10.58	0.0743	23	1	100	1
9/19/2012	8:47 AM	63	63	62.9	59	48.4	0	---	0	0	---	63	61.8	61.8	29.971	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:48 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.974	0	0	0.001	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:49 AM	63	63	63	59	48.4	0	---	0	0	---	63	61.8	61.8	29.977	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:50 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.976	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:51 AM	63	63	63	58	48	0	---	0	0	---	63	61.8	61.8	29.979	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	21	1	91.3	1
9/19/2012	8:52 AM	62.9	63	62.9	58	47.9	0	---	0	0	---	62.9	61.7	61.7	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	24	1	100	1
9/19/2012	8:53 AM	62.9	62.9	62.9	57	47.4	0	---	0	0	---	62.9	61.6	61.6	29.98	0	0	0.001	0	68.9	57	53	68.1	10.57	0.0742	22	1	95.7	1
9/19/2012	8:54 AM	62.8	62.8	62.8	57	47.3	0	---	0	0	---	62.8	61.5	61.5	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	23	1	100	1
9/19/2012	8:55 AM	62.6	62.7	62.6	57	47.1	0	---	0	0	---	62.6	61.3	61.3	29.978	0	0	0.002	0	68.7	57	52.8	67.9	10.58	0.0742	24	1	100	1
9/19/2012	8:56 AM	62.5	62.6	62.5	58	47.5	0	---	0	0	---	62.5	61.2	61.

Meteorological Data
Equity IRM

9/19/2012	10:14 AM	65.6	65.7	65.6	49	45.9	7	NNE	0.12	11	ENE	65.6	63.9	63.9	30.003	0	0	0	0	74.9	51	55.6	75	9.35	0.0733	24	1	100	1
9/19/2012	10:15 AM	65.5	65.6	65.5	50	46.4	6	NE	0.1	13	NNW	65.5	63.8	63.8	30.002	0	0	0	0	75	51	55.6	75.2	9.35	0.0733	23	1	100	1
9/19/2012	10:16 AM	65.5	65.5	65.5	50	46.4	4	NNW	0.07	8	NNW	65.5	63.8	63.8	30.002	0	0	0	0	75	51	55.6	75.2	9.35	0.0733	23	1	100	1
9/19/2012	10:17 AM	65.6	65.6	65.6	50	46.5	6	N	0.1	11	NNW	65.6	64	64	30.006	0	0	0	0	75.2	51	55.8	75.4	9.35	0.0733	23	1	100	1
9/19/2012	10:18 AM	65.7	65.7	65.6	50	46.5	5	N	0.08	10	N	65.7	64.1	64.1	30.005	0	0	0	0	75.2	51	55.8	75.4	9.35	0.0733	23	1	100	1
9/19/2012	10:19 AM	65.7	65.7	65.7	50	46.5	7	NNW	0.12	14	NW	65.7	64.1	64.1	30.008	0	0	0	0	75.4	51	56	75.5	9.35	0.0733	24	1	100	1
9/19/2012	10:20 AM	65.8	65.8	65.7	50	46.6	5	ESE	0.08	8	NNW	65.8	64.2	64.2	30.008	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0733	23	1	100	1
9/19/2012	10:21 AM	65.8	65.8	65.7	52	47.7	4	NE	0.07	7	ENE	65.8	64.4	64.4	30.006	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	24	1	100	1
9/19/2012	10:22 AM	65.9	65.9	65.9	51	47.3	5	NE	0.08	9	E	65.9	64.4	64.4	30.007	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0732	23	1	100	1
9/19/2012	10:23 AM	65.9	66	65.9	51	47.3	7	ENE	0.12	10	ENE	65.9	64.4	64.4	30.008	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	23	1	100	1
9/19/2012	10:24 AM	65.8	65.9	65.8	50	46.6	4	NE	0.07	6	NNE	65.8	64.2	64.2	30.005	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0732	24	1	100	1
9/19/2012	10:25 AM	65.8	65.9	65.8	52	47.7	3	ENE	0.05	8	ENE	65.8	64.4	64.4	30.004	0	0	0	0.001	75.9	51	56.5	76	9.35	0.0732	23	1	100	1
9/19/2012	10:26 AM	65.9	65.9	65.8	52	47.8	4	NNE	0.07	5	NNE	65.9	64.5	64.5	30.004	0	0	0	0.001	76.1	51	56.7	76.1	9.35	0.0731	23	1	100	1
9/19/2012	10:27 AM	66	66	65.9	52	47.9	6	E	0.1	8	ESE	66	64.6	64.6	30.006	0	0	0	0.001	76.1	51	56.7	76.1	9.35	0.0731	23	1	100	1
9/19/2012	10:28 AM	66	66	66	52	47.9	5	NNE	0.08	9	NNW	66	64.6	64.6	30.004	0	0	0	0.001	76.6	43	52.4	76	8.05	0.0732	22	1	95.7	1
9/19/2012	10:29 AM	66.1	66.1	66.1	51	47.4	4	NNW	0.07	8	NNW	66.1	64.6	64.6	30.004	0	0	0	0.001	77.5	46	55.1	77.1	8.5	0.073	23	1	100	1
9/19/2012	10:30 AM	66.2	66.2	66.1	51	47.5	2	NE	0.03	4	ENE	66.2	64.7	64.7	30.002	0	0	0	0.001	78	46	55.5	77.7	8.49	0.0729	23	1	100	1
9/19/2012	10:31 AM	66.3	66.3	66.2	52	48.1	4	ENE	0.07	8	NNW	66.3	65	65	30.003	0	0	0	0.001	78.4	47	56.5	78.2	8.68	0.0728	23	1	100	1
9/19/2012	10:32 AM	66.4	66.4	66.4	51	47.7	6	NNW	0.1	10	N	66.4	65	65	30.006	0	0	0	0.001	78.8	47	56.9	78.7	8.67	0.0728	23	1	100	1
9/19/2012	10:33 AM	66.4	66.4	66.4	51	47.7	4	N	0.07	9	NNW	66.4	65	65	30.006	0	0	0	0.001	79	47	57	78.9	8.67	0.0727	23	1	100	1
9/19/2012	10:34 AM	66.3	66.4	66.3	50	47.1	6	ENE	0.1	11	ENE	66.3	64.8	64.8	30.008	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:35 AM	66.4	66.4	66.3	51	47.7	5	ENE	0.08	8	ENE	66.4	65	65	30.007	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	22	1	95.7	1
9/19/2012	10:36 AM	66.4	66.4	66.4	50	47.2	7	NE	0.12	10	NNE	66.4	64.9	64.9	30.007	0	0	0	0.001	79.2	45	56	78.9	8.37	0.0727	24	1	100	1
9/19/2012	10:37 AM	66.4	66.4	66.4	50	47.2	3	N	0.05	5	N	66.4	64.9	64.9	30.008	0	0	0	0.001	79.2	45	56	78.9	8.37	0.0727	22	1	95.7	1
9/19/2012	10:38 AM	66.3	66.4	66.3	49	46.6	3	E	0.05	7	ENE	66.3	64.7	64.7	30.008	0	0	0	0.001	79.2	44	55.4	78.8	8.17	0.0728	23	1	100	1
9/19/2012	10:39 AM	66.3	66.3	66.3	50	47.1	7	E	0.12	10	E	66.3	64.8	64.8	30.007	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	23	1	100	1
9/19/2012	10:40 AM	66.4	66.4	66.3	49	46.7	8	ENE	0.13	10	E	65.8	64.8	64.2	30.011	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:41 AM	66.4	66.4	66.4	49	46.7	6	ENE	0.1	10	ENE	66.4	64.8	64.8	30.011	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	24	1	100	1
9/19/2012	10:42 AM	66.5	66.5	66.5	50	47.3	7	ENE	0.12	10	ENE	66.5	65	65	30.008	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	23	1	100	1
9/19/2012	10:43 AM	66.5	66.5	66.5	49	46.7	6	ENE	0.1	10	ESE	66.5	64.9	64.9	30.01	0	0	0	0.001	79.2	46	56.6	79	8.47	0.0727	24	1	100	1
9/19/2012	10:44 AM	66.4	66.5	66.4	49	46.7	7	ENE	0.12	9	ENE	66.4	64.8	64.8	30.007	0	0	0	0.001	79.2	47	57.2	79.1	8.67	0.0727	23	1	100	1
9/19/2012	10:45 AM	66.4	66.4	66.4	50	47.2	6	NE	0.1	9	ENE	66.4	64.9	64.9	30.009	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	24	1	100	1
9/19/2012	10:46 AM	66.4	66.4	66.4	50	47.2	7	ENE	0.12	10	ENE	66.4	64.9	64.9	30.009	0	0	0	0.001	79.3	46	56.7	79.1	8.46	0.0727	23	1	100	1
9/19/2012	10:47 AM	66.5	66.5	66.4	50	47.3	7	ENE	0.12	11	N	66.5	65	65	30.007	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	23	1	100	1
9/19/2012	10:48 AM	66.5	66.5	66.5	49	46.7	6	ENE	0.1	11	ENE	66.5	64.9	64.9	30.007	0	0	0	0.001	79.3	47	57.3	79.2	8.66	0.0727	24	1	100	1
9/19/2012	10:49 AM	66.6	66.6	66.5	51	47.9	6	NNE	0.1	9	NE	66.6	65.2	65.2	30.007	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:50 AM	66.6	66.6	66.6	48	46.3	7	NNE	0.12	12	NNW	66.6	64.9	64.9	30.008	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	24	1	100	1
9/19/2012	10:51 AM	66.5	66.6	66.5	49	46.7	5	NNE	0.08	9	ENE	66.5	64.9	64.9	30.006	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:52 AM	66.5	66.5	66.5	49	46.7	5	NNE	0.08	10	NE	66.5	64.9	64.9	30.008	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:53 AM	66.5	66.5	66.5	49	46.7	8	N	0.13	13	NNW	65.9	64.9	64.3	30.006	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	24	1	100	1
9/19/2012	10:54 AM	66.4	66.5	66.4	49	46.7	5	NNE	0.08	10	NNW	66.4	64.8	64.8	30.009	0	0	0	0.001	79.5	47	57.5	79.3	8.66	0.0726	23	1	100	1
9/19/2012	10:55 AM	66.4	66.4	66.3	49	46.7	8	N	0.13	15	N	65.8	64.8	64.2	30.01	0	0	0	0.001	79.5	42	54.4	78.8	7.86	0.0728	24	1	100	1
9/19/2012	10:56 AM	66.3	66.3	66.3	48	46	10	NNW	0.17	14	NNW	64.3	64.6	62.6	30.01	0	0	0	0.001	79.3	39	52.2	78.4	7.46	0.0729	23	1	100	1
9/19/2012	10:57 AM	66.2	66.3	66.2	49	46.5	6	N	0.1	11	NNE	66.2	64.5	64.5	30.013	0	0	0	0.001	79.2	40	52.8	78.4	7.57	0.0729	24	1	100	1
9/19/2012	10:58 AM	66.3	66.3	66.2	50	47.1	6	NNE	0.1	9	NNW	66.3	64.8	64.8	30.013	0	0	0	0.001	79	41	53.3	78.3	7.75	0.0729	23	1	100	1
9/19/2012	10:59 AM	66.3	66.3	66.3	48	46	8	N	0.13	16	N	65.7	64.6	64	30.017	0	0	0	0.001	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:00 AM	66.3	66.3	66.3	49	46.6	5	ENE	0.08	16	N	66.3	64.7	64.7	30.013	0	0	0	0.001	78.6	42	53.6	78	7.88	0.0729	24	1	100	1
9/19/2012	11:01 AM	66.4	66.4	66.3	49	46.7	6	ENE	0.1	10	ESE	66.4	64.8	64.8	30.013	0	0	0	0.001	78.6	42	53.6	78	7.88	0.0729	23	1	100	1
9/19/2012	11:02 AM	66.5	66.5	66.4	49	46.7	7	ENE	0.12	10	ENE	66.5	64.9	64.9	30.012	0	0	0	0.001	78.4	40	52.1	77.5	7.58	0.073	24	1	100	1
9/19/2012	11:03 AM	66.6	66.6	66.6	48	46.3	7	ENE	0.12	11	ENE	66.6	64.9	64.9	30.015	0	0	0	0.001	78.4	42	53.4	77.7	7.88	0.073	23	1	100	1
9/19/2012	11:04 AM	66.7	66.7	66.6	48	46.4	8	ENE	0.13	13	NNE	66.1	65	64.4	30.015	0	0	0	0.001	78.2	41	52.6	77.4	7.75	0.073	23	1	100	1
9/19/2012	11:05 AM	66.7	66.7	66.7	48	46.4	4	NE	0.07	8	ENE	66.7	65	65	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:06 AM	66.8	66.8	66.7	48	46.5	5	NNE	0.08	8	ESE	66.8	65.2	65.2	30.017	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:07 AM	66.9	66.9	66.8	47	46	8	NNW	0.13	13	NNW	66.3	65.2	64.6	30.018	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:08 AM	66.9	66.9	66.9	48	46.6	6	NNW	0.1	11	NNW	66.9	65.3	65.3	30.015	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:09 AM	67	67	66.9	48	46.7	8	NE	0.13	14	N	66.4	65.4	64.8	30.015	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	22	1	95.7	1
9/19/2012	11:10 AM	67	67	67	48	46.7	4	NE	0.07	7	NE	67	65.4	65.4	30.017	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:11 AM	67	67	67	48	46.7	5	NNW	0.08	8	ENE	67	65.4	65.4	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:12 AM	67	67	67	48	46.7	4	NE	0.07	7	ENE	67	65.4	65.4	30.016	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	24	1	100	1
9/19/2012	11:13 AM	67	67	67	48	46.7	8	NE	0.13	13	ENE	66.4	65.4	64.8	30.018	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	23	1	100	1
9/19/2012	11:14 AM	67	67	67	48	46.7	7	E	0.12	9	ENE	67	65.4	65.4	30.019	0	0	0	0.001	78.2	42	53.2	77.5	7.89	0.073	24	1	100	1
9/19/2012	11:15 AM	67.1	67.1	67	49	47.3	5	ENE	0.08	7	ENE	67.1	65.6	65.6	30.019	0	0	0	0.001	78.2	43	53.9	77.6	8.05	0.073	23	1	100	1
9/19/2012	11:16 AM	67.2	67.2	67.1	48	46.8	7	ENE	0.12	10	NE	67.2	65.6	65.6	30.022	0	0	0	0.002	78.2	43	53.9	77.6	8.05	0.073	22	1	95.7	1
9/19/2012	11:17 AM	67.2	67.2	67.1	47	46.3	4	E	0.07	6	E	67.2	65.5	65.5	30.02	0	0	0	0.002	78.4	43	54	77.8	8.05	0.073	24	1	100	1
9/19/2012	11:18 AM	67.4	67.4	67.2	49	47.6	5	NNW	0.08	9	NW	67.4	65.9	65.9	30.021	0	0	0	0.002	78.4	43	54	77.8	8.05	0.073	22	1	95.7	1
9/19/2012	11:19 AM	67.5	67.5	67.4	49	47.7	6	NNE	0.1	10	ENE	67.5	66.1	66.1	30.02	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	24	1	100	1
9/19/2012	11:20 AM	67.6	67.6	67.5	47	46.6	5	NE	0.08	9	ENE	67.6	66	66	30.02	0	0	0	0.002	78.4	42	53.4	77.7	7.88	0.073	22	1	95.7	1
9/19/2012	11:21 AM	67.6	67.6	67.6	47	46.6	6	NNW	0.1	10	NNE	67.6	66	66	30.019	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:22 AM	67.7	67.7	67.6	47	46.7	6	NNE	0.1	8	ENE	67.7	66.1	66.1	30.023	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	24	1	100	1
9/19/2012	11:23 AM	67.7	67.7	67.7	47	46.7	5	E	0.08	9	NNE	67.7	66.1	66.1	30.025	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:24 AM	67.6	67.7	67.6	47	46.6	6	ENE	0.1	10	ENE	67.6	66	66	30.024	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	24	1	100	1
9/19/2012	11:25 AM	67.6	67.6	67.6	47	46.6	6	NE	0.1	10	ENE	67.6	66	66	30.024	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	22	1	95.7	1
9/19/2012	11:26 AM	67.6	67.6	67.6	47	46.6	5	ENE	0.08	9	E	67.6	66	66	30.026	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	24	1	100	1
9/19/2012	11:27 AM	67.6	67.6	67.6	47	46.6	6	NNE	0.1	11	NNE	67.6	66	66	30.025	0	0	0	0.002	78.6	43	54.2	78.1	8.05	0.0729	22	1	95.7	1
9/19/2012	11:28 AM	67.5	67.6	67.5	47	46.6	7	ENE	0.12	12	NNE	67.5	65.8	65.8	30.023	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	23	1	100	1
9/19/2012	11:29 AM	67.5	67.5	67.5	48	47.1	7	ENE	0.12	10	ENE	67.5	65.9	65.9	30.024	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	23	1	100	1
9/19/2012	11:30 AM	67.5	67.5	67.5	48	47.1	6	E	0.1	9	E	67.5	65.9	65.9	30.025	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	22	1	95.7	1
9/19/2012	11:31 AM	67.6	67.6	67.5	47	46.6	5	E	0.08	9	ENE	67.6	66	66	30.025	0	0	0	0.002	78.8	43	54.4	78.3	8.05	0.0729	24	1	100	1
9/19/2012	11:32 AM	67.7	67.7	67.6	47	46.7	5	NNE	0.08	12	NW	67.7	66.1	66.1	30.024	0	0	0	0.002	79	43	54.6	78.5	8.05	0.0729	23	1	100	1
9/19/2012	11:33 AM	67.7	67.7	67.7	46	46.2	7	NNE	0.12	12	NW	67.7	66	66	30.024	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:34 AM	67.7	67.7	67.7	47	46.7	5	NNE	0.08	8	NNW	67.7	66.1	66.1	30.026	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:35 AM	67.6	67.7	67.6	47	46.6	5	NE	0.08	10	ENE	67.6	66	66	30.025	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:36 AM	67.7	67.7	67.6	47	46.7	5	NNW	0.08	10	ENE	67.7	66.1	66.1	30.024	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	24	1	100	1
9/19/2012	11:37 AM	67.7	67.7	67.7	48	47.3	5	ENE	0.08	11	NNW	67.7	66.2	66.2	30.025	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:38 AM	67.8	67.8	67.7	48	47.4	4	ENE	0.07	11	NNW	67.8	66.3	66.3	30.027	0	0	0	0.002	79	41	53.3	78.3	7.75	0.0729	24	1	100	1
9/19/2012	11:39 AM	67.8	67.8	67.8	47	46.8	5	NE	0.08	11	ENE	67.8	66.2	66.2	30.03	0	0	0	0.002	79	42	53.9	78.4	7.87	0.0729	23	1	100	1
9/19/2012	11:40 AM	67.9	67.9	67.8	48	47.5	7	E	0.12	11	ENE	67.9	66.4	66.4	30.029	0	0	0	0.002	78.8	41	53.1	78.1	7.75	0.073	23	1	100	1
9/19/2012	11:41 AM	67.9	67.9	67.9	47	46.9	6	NE	0.1	10	ENE	67.9	66.3	66.3	30.03	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:42 AM	67.9	67.9	67.9	47	46.9	4	NE	0.07	8	NE	67.9	66.3	66.3	30.029	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:43 AM	67.8	67.9	67.8	48	47.4	4	E	0.07	7	E	67.8	66.3	66.3	30.028	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:44 AM	67.7	67.7	67.7	48	47.3	4	NNE	0.07	7	NE	67.7	66.2	66.2	30.028	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:45 AM	67.8	67.8	67.7	48	47.4	5	NNW	0.08	7	ENE	67.8	66.3	66.3	30.029	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:46 AM	67.9	67.9	67.8	47	46.9	4	NNE	0.07	9	NNW	67.9	66.3	66.3	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:47 AM	68	68	67.9	47	47	5	NNW	0.08	8	NNW	68	66.4	66.4	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	23	1	100	1
9/19/2012	11:48 AM	68	68.1	68	46	46.4	8	E	0.13	13	N	67.3	66.3	65.6	30.027	0	0	0	0.002	78.8	42	53.8	78.2	7.87	0.0729	24	1	100	1
9/19/2012	11:49 AM	68.2	68.2	68	47	47.2	6	E	0.1	9	NE	68.2	66.6	66.6	30.027	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:50 AM	68.3	68.3	68.2	47	47.3	5	NE	0.08	10	NNE	68.3	66.7	66.7	30.029	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:51 AM	68.4	68.5	68.3	47	47.4	6	NNW	0.1	9	NNW	68.4	66.8	66.8	30.028	0	0	0	0.002	78.6	42	53.6	78	7.88	0.073	23	1	100	1
9/19/2012	11:52 AM	68.4	68.5	68.4	45	46.2	6	NNW	0.1	10	NNW	68.4	66.6	66.6	30.029	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	23	1	100	1
9/19/2012	11:53 AM	68.4	68.4	68.4	46	46.8	8	NNW	0.13	12	WNW	67.7	66.7	66	30.026	0	0	0	0.002	78.6	41	52.9	77.9	7.75	0.073	24	1	100	1
9/19/2012	11:54 AM	68.5	68.5	68.4	45

Meteorological Data
Equity IRM

9/19/2012	1:14 PM	70.1	70.1	69.9	42	45.9	5	E	0.08	8	ENE	70.1	67.6	67.6	30.049	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	23	1	100	1
9/19/2012	1:15 PM	70.1	70.1	70.1	42	45.9	4	ENE	0.07	5	ENE	70.1	67.6	67.6	30.05	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	24	1	100	1
9/19/2012	1:16 PM	70.1	70.1	70.1	40	44.6	2	ENE	0.03	5	ESE	70.1	67.4	67.4	30.05	0	0	0	0.004	79	40	52.6	78.2	7.57	0.073	23	1	100	1
9/19/2012	1:17 PM	70	70.1	70	41	45.2	3	ESE	0.05	5	E	70	67.4	67.4	30.05	0	0	0	0.003	79.2	40	52.8	78.4	7.57	0.073	24	1	100	1
9/19/2012	1:18 PM	69.8	69.9	69.8	40	44.4	2	E	0.03	5	E	69.8	67.2	67.2	30.05	0	0	0	0.003	79.2	40	52.8	78.4	7.57	0.073	23	1	100	1
9/19/2012	1:19 PM	69.7	69.8	69.7	42	45.6	2	E	0.03	5	NW	69.7	67.3	67.3	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	23	1	100	1
9/19/2012	1:20 PM	69.8	69.8	69.7	42	45.7	2	NE	0.03	5	E	69.8	67.4	67.4	30.051	0	0	0	0.003	79.3	40	52.9	78.4	7.56	0.073	24	1	100	1
9/19/2012	1:21 PM	69.9	69.9	69.8	42	45.8	2	E	0.03	4	NE	69.9	67.4	67.4	30.051	0	0	0	0.003	79.3	39	52.2	78.4	7.46	0.073	23	1	100	1
9/19/2012	1:22 PM	70.1	70.1	69.9	41	45.3	4	ENE	0.07	9	ENE	70.1	67.5	67.5	30.052	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:23 PM	70.1	70.1	70.1	42	45.9	5	ESE	0.08	10	ENE	70.1	67.6	67.6	30.052	0	0	0	0.004	79.5	38	51.7	78.4	7.26	0.073	23	1	100	1
9/19/2012	1:24 PM	70.1	70.1	70.1	43	46.6	5	E	0.08	6	E	70.1	67.7	67.7	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:25 PM	70.2	70.2	70.1	43	46.6	3	ENE	0.05	5	NE	70.2	67.9	67.9	30.049	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:26 PM	70.3	70.3	70.2	42	46.1	3	E	0.05	6	E	70.3	67.9	67.9	30.05	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:27 PM	70.3	70.3	70.3	42	46.1	3	NNE	0.05	5	NNE	70.3	67.9	67.9	30.052	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:28 PM	70.4	70.4	70.3	41	45.6	3	ENE	0.05	6	NNW	70.4	67.9	67.9	30.051	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	23	1	100	1
9/19/2012	1:29 PM	70.4	70.4	70.4	42	46.2	3	E	0.05	5	NE	70.4	68	68	30.053	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:30 PM	70.5	70.5	70.4	42	46.3	3	NNE	0.05	5	ENE	70.5	68.1	68.1	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:31 PM	70.5	70.5	70.5	41	45.7	2	ENE	0.03	5	E	70.5	68.1	68.1	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:32 PM	70.6	70.6	70.5	42	46.4	3	N	0.05	5	N	70.6	68.3	68.3	30.05	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:33 PM	70.5	70.6	70.5	41	45.7	2	NE	0.03	3	NE	70.5	68.1	68.1	30.051	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	23	1	100	1
9/19/2012	1:34 PM	70.4	70.5	70.4	40	44.9	3	ENE	0.05	7	ENE	70.4	67.8	67.8	30.05	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:35 PM	70.3	70.4	70.3	41	45.5	3	NE	0.05	6	NNW	70.3	67.8	67.8	30.05	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	23	1	100	1
9/19/2012	1:36 PM	70.3	70.3	70.3	41	45.5	3	NNW	0.05	6	NNW	70.3	67.8	67.8	30.051	0	0	0	0.004	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:37 PM	70.3	70.3	70.2	41	45.5	0	N	0	1	NNW	70.3	67.8	67.8	30.05	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.0729	23	1	100	1
9/19/2012	1:38 PM	70.4	70.4	70.3	42	46.2	2	ENE	0.03	6	E	70.4	68	68	30.051	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:39 PM	70.5	70.5	70.4	41	45.7	4	NE	0.07	8	NW	70.5	68.1	68.1	30.051	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:40 PM	70.6	70.6	70.5	41	45.7	5	E	0.08	10	ENE	70.6	68.2	68.2	30.055	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:41 PM	70.6	70.6	70.6	41	45.7	4	ENE	0.07	9	E	70.6	68.2	68.2	30.056	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:42 PM	70.5	70.6	70.5	41	45.7	3	ENE	0.05	7	E	70.5	68.1	68.1	30.056	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	23	1	100	1
9/19/2012	1:43 PM	70.4	70.5	70.4	41	45.6	3	NE	0.05	7	E	70.4	67.9	67.9	30.055	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	22	1	95.7	1
9/19/2012	1:44 PM	70.3	70.4	70.3	41	45.5	5	E	0.08	9	ENE	70.3	67.8	67.8	30.053	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	24	1	100	1
9/19/2012	1:45 PM	70.3	70.3	70.3	41	45.5	6	ENE	0.1	9	ENE	70.3	67.8	67.8	30.053	0	0	0	0.004	79.5	40	53.1	78.6	7.56	0.0729	22	1	95.7	1
9/19/2012	1:46 PM	70.2	70.3	70.2	40	44.7	8	ENE	0.13	11	E	69.7	67.6	67.1	30.054	0	0	0	0.004	79.7	40	53.2	78.8	7.56	0.0729	24	1	100	1
9/19/2012	1:47 PM	70.2	70.2	70.2	42	46	6	ENE	0.1	8	ESE	70.2	67.8	67.8	30.057	0	0	0	0.004	79.7	38	51.8	78.6	7.26	0.073	22	1	95.7	1
9/19/2012	1:48 PM	70.1	70.2	70.1	41	45.3	6	E	0.1	8	ENE	70.1	67.5	67.5	30.056	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	21	1	91.3	1
9/19/2012	1:49 PM	70	70.1	70	39	43.9	3	E	0.05	7	ENE	70	67.2	67.2	30.056	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:50 PM	69.9	70	69.9	39	43.8	4	E	0.07	5	E	69.9	67.1	67.1	30.053	0	0	0	0.003	79.7	38	51.8	78.6	7.26	0.0729	22	1	95.7	1
9/19/2012	1:51 PM	69.8	69.9	69.8	39	43.7	6	ENE	0.1	9	ENE	69.8	67.1	67.1	30.056	0	0	0	0.003	79.7	39	52.5	78.7	7.46	0.0729	24	1	100	1
9/19/2012	1:52 PM	69.7	69.8	69.7	43	46.2	3	ENE	0.05	8	ENE	69.7	67.4	67.4	30.055	0	0	0	0.003	79.7	38	51.8	78.6	7.26	0.073	22	1	95.7	1
9/19/2012	1:53 PM	69.7	69.7	69.7	40	44.3	4	ENE	0.07	6	E	69.7	67.1	67.1	30.054	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:54 PM	69.8	69.8	69.7	41	45	4	NE	0.07	6	E	69.8	67.3	67.3	30.057	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	22	1	95.7	1
9/19/2012	1:55 PM	69.9	69.9	69.8	40	44.5	4	ENE	0.07	9	ENE	69.9	67.2	67.2	30.055	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:56 PM	69.9	69.9	69.8	40	44.5	5	ENE	0.08	9	ESE	69.9	67.2	67.2	30.055	0	0	0	0.003	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:57 PM	70.1	70.1	69.9	41	45.3	4	NE	0.07	6	N	70.1	67.5	67.5	30.057	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	1:58 PM	70.2	70.2	70.1	41	45.4	5	NW	0.08	11	NNW	70.2	67.7	67.7	30.056	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	1:59 PM	70.3	70.3	70.2	41	45.5	3	W	0.05	7	NNW	70.3	67.8	67.8	30.055	0	0	0	0.004	79.5	38	51.7	78.4	7.26	0.073	23	1	100	1
9/19/2012	2:00 PM	70.4	70.4	70.3	40	44.9	7	N	0.12	14	NNW	70.4	67.8	67.8	30.055	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	23	1	100	1
9/19/2012	2:01 PM	70.4	70.5	70.4	40	44.9	4	NNE	0.07	7	NNW	70.4	67.8	67.8	30.054	0	0	0	0.004	79.5	39	52.4	78.5	7.46	0.073	24	1	100	1
9/19/2012	2:02 PM	70.5	70.5	70.4	41	45.7	4	NNE	0.07	8	NNE	70.5	68.1	68.1	30.055	0	0	0	0.004	79.3	38	51.5	78.3	7.26	0.073	23	1	100	1
9/19/2012	2:03 PM	70.5	70.5	70.5	40	45	5	NNE	0.08	9	NW	70.5	67.9	67.9	30.057	0	0	0	0.004	79.3	38	51.5	78.3	7.26	0.073	24	1	100	1
9/19/2012	2:04 PM	70.4	70.5	70.4	40	44.9	3	NNE	0.05	6	N	70.4	67.8	67.8	30.058	0	0	0	0.004	79.3	39	52.2	78.4	7.46	0.073	23	1	100	1
9/19/2012	2:05 PM	70.3	70.4	70.3	41	45.5	2	E	0.03	5	E	70.3	67.8	67.8	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:06 PM	70.3	70.3	70.3	41	45.5	3	ENE	0.05	6	E	70.3	67.8	67.8	30.056	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:07 PM	70.4	70.4	70.3	41	45.6	3	E	0.05	6	E	70.4	67.9	67.9	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:08 PM	70.4	70.4	70.4	41	45.6	4	E	0.07	7	ESE	70.4	67.9	67.9	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:09 PM	70.6	70.6	70.5	40	45.1	3	NE	0.05	7	E	70.6	68.1	68.1	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:10 PM	70.7	70.7	70.6	39	44.5	4	W	0.07	5	NW	70.7	68.1	68.1	30.056	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:11 PM	70.7	70.7	70.6	40	45.2	2	W	0.03	5	NW	70.7	68.2	68.2	30.055	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	23	1	100	1
9/19/2012	2:12 PM	70.8	70.8	70.7	40	45.3	4	NE	0.07	8	NNW	70.8	68.3	68.3	30.058	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:13 PM	70.9	70.9	70.8	40	45.4	3	ENE	0.05	5	ESE	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:14 PM	71	71	70.9	39	44.8	5	ENE	0.08	8	NW	71	68.5	68.5	30.058	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:15 PM	71.1	71.1	71.1	39	44.9	6	ENE	0.1	10	NNW	71.1	68.7	68.7	30.058	0	0	0	0.004	79.2	39	52.1	78.3	7.47	0.073	24	1	100	1
9/19/2012	2:16 PM	71.1	71.1	71.1	38	44.2	6	N	0.1	9	N	71.1	68.6	68.6	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:17 PM	71	71.1	71	39	44.8	4	N	0.07	8	WNW	71	68.5	68.5	30.056	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:18 PM	70.9	71	70.9	40	45.4	5	WSW	0.08	8	WNW	70.9	68.5	68.5	30.056	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:19 PM	70.9	71	70.9	40	45.4	6	WSW	0.1	16	WSW	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:20 PM	70.9	70.9	70.8	40	45.4	5	ENE	0.08	8	N	70.9	68.5	68.5	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:21 PM	70.9	70.9	70.9	39	44.7	6	N	0.1	11	N	70.9	68.4	68.4	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:22 PM	70.9	70.9	70.9	38	44	4	ENE	0.07	12	NE	70.9	68.3	68.3	30.055	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:23 PM	70.9	70.9	70.9	38	44	9	N	0.15	13	N	69.5	68.3	66.9	30.057	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	23	1	100	1
9/19/2012	2:24 PM	70.8	70.9	70.8	38	43.9	6	NNW	0.1	12	NNW	70.8	68.2	68.2	30.06	0	0	0	0.004	79.2	37	50.7	78.1	7.17	0.0731	23	1	100	1
9/19/2012	2:25 PM	70.8	70.8	70.8	38	43.9	5	NW	0.08	11	NNW	70.8	68.2	68.2	30.059	0	0	0	0.004	79.2	38	51.4	78.2	7.27	0.073	24	1	100	1
9/19/2012	2:26 PM	70.7	70.7	70.7	39	44.5	2	NW	0.03	5	N	70.7	68.1	68.1	30.061	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:27 PM	70.8	70.8	70.7	38	43.9	4	ENE	0.07	10	NNW	70.8	68.2	68.2	30.061	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:28 PM	70.7	70.7	70.7	38	43.8	3	E	0.05	5	E	70.7	68	68	30.061	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:29 PM	70.7	70.7	70.7	38	43.8	2	E	0.03	3	ESE	70.7	68	68	30.06	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	24	1	100	1
9/19/2012	2:30 PM	70.7	70.8	70.7	39	44.5	8	NNW	0.13	11	N	70.2	68.1	67.6	30.062	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:31 PM	70.8	70.8	70.7	37	43.2	8	NNW	0.13	13	NNW	70.3	68.1	67.6	30.062	0	0	0	0.004	79	36	49.8	77.9	6.97	0.0731	22	1	95.7	1
9/19/2012	2:32 PM	70.6	70.7	70.6	39	44.4	7	NNW	0.12	12	ENE	70.6	68	68	30.064	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	24	1	100	1
9/19/2012	2:33 PM	70.5	70.6	70.5	39	44.3	6	NNW	0.1	11	NW	70.5	67.9	67.9	30.061	0	0	0	0.004	78.8	35	48.8	77.6	6.87	0.0732	22	1	95.7	1
9/19/2012	2:34 PM	70.5	70.5	70.5	39	44.3	6	N	0.1	9	NW	70.5	67.9	67.9	30.061	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	24	1	100	1
9/19/2012	2:35 PM	70.7	70.7	70.6	40	45.2	5	NE	0.08	9	N	70.7	68.2	68.2	30.062	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	22	1	95.7	1
9/19/2012	2:36 PM	70.9	70.9	70.7	40	45.4	3	NE	0.05	8	NE	70.9	68.5	68.5	30.062	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	23	1	100	1
9/19/2012	2:37 PM	71	71	70.9	39	44.8	6	N	0.1	9	N	71	68.5	68.5	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:38 PM	71	71	71	38	44.1	5	E	0.08	8	ENE	71	68.4	68.4	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:39 PM	70.8	71	70.8	39	44.6	5	NNW	0.08	7	NNW	70.8	68.3	68.3	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:40 PM	70.8	70.8	70.8	39	44.6	4	NNW	0.07	7	NW	70.8	68.3	68.3	30.063	0	0	0	0.004	78.8	36	49.6	77.7	6.97	0.0732	22	1	95.7	1
9/19/2012	2:41 PM	70.7	70.8	70.7	39	44.5	2	ENE	0.03	4	NE	70.7	68.1	68.1	30.064	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0731	23	1	100	1
9/19/2012	2:42 PM	70.6	70.7	70.6	40	45.1	1	NE	0.02	3	NE	70.6	68.1	68.1	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:43 PM	70.7	70.7	70.7	40	45.2	3	NE	0.05	5	NNE	70.7	68.2	68.2	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:44 PM	70.7	70.7	70.7	39	44.5	2	ENE	0.03	3	NE	70.7	68.1	68.1	30.065	0	0	0	0.004	78.8	37	50.3	77.7	7.17	0.0732	23	1	100	1
9/19/2012	2:45 PM	70.7	70.7	70.7	40	45.2	1	NE	0.02	3	NE	70.7	68.2	68.2	30.067	0	0	0	0.004	79	38	51.2	78	7.27	0.0731	23	1	100	1
9/19/2012	2:46 PM	70.8	70.8	70.7	39	44.6	3	NE	0.05	7	NNE	70.8	68.3	68.3	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:47 PM	70.8	70.8	70.8	38	43.9	7	N	0.12	13	NW	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:48 PM	70.8	70.8	70.8	37	43.2	7	NNW	0.12	12	NNW	70.8	68.1	68.1	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:49 PM	70.8	70.8	70.8	38	43.9	2	ENE	0.03	3	ENE	70.8	68.2	68.2	30.067	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:50 PM	70.9	70.9	70.8	39	44.7	5	ENE	0.08	9	E	70.9	68.4	68.4	30.065	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:51 PM	71	71	70.9	38	44.1	6	E	0.1	8	NNE	71	68.4	68.4	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	24	1	100	1
9/19/2012	2:52 PM	71.1	71.1	71	38	44.2	3	ENE	0.05	5	ENE	71.1	68.6	68.6	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:53 PM	71.2	71.2	71.2	38	44.3	4	E	0.07	6	E	71.2	68.7	68.7	30.066	0	0	0	0.004	79	37	50.5	78	7.17	0.0731	23	1	100	1
9/19/2012	2:54 PM	71.3	71.3	71.2	37

Meteorological Data
Equity IRM

9/19/2012	4:14 PM	70.8	70.8	70.8	36	42.5	4	NNE	0.07	8	NNE	70.8	68	68	30.071	0	0	0	0.004	77.3	38	49.7	76.4	7.3	0.0734	22	1	95.7	1
9/19/2012	4:15 PM	70.8	70.8	70.8	36	42.5	2	ENE	0.03	5	WNW	70.8	68	68	30.071	0	0	0	0.004	77.3	38	49.7	76.4	7.3	0.0734	23	1	100	1
9/19/2012	4:16 PM	70.9	70.9	70.8	36	42.6	5	NW	0.08	7	NNW	70.9	68.2	68.2	30.071	0	0	0	0.004	77.2	38	49.6	76.3	7.31	0.0734	23	1	100	1
9/19/2012	4:17 PM	71	71	70.9	36	42.7	4	NNE	0.07	7	NNW	71	68.3	68.3	30.069	0	0	0	0.004	77.2	38	49.6	76.3	7.31	0.0734	22	1	95.7	1
9/19/2012	4:18 PM	71	71	70.9	36	42.7	2	NNE	0.03	5	NNE	71	68.3	68.3	30.07	0	0	0	0.004	77.2	39	50.3	76.3	7.51	0.0734	24	1	100	1
9/19/2012	4:19 PM	71	71	71	35	42	4	E	0.07	7	ENE	71	68.2	68.2	30.071	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	22	1	95.7	1
9/19/2012	4:20 PM	71	71	71	36	42.7	6	NNE	0.1	12	ENE	71	68.3	68.3	30.074	0	0	0	0.004	77	39	50.1	76.2	7.51	0.0734	24	1	100	1
9/19/2012	4:21 PM	70.9	71	70.9	35	41.9	6	N	0.1	10	N	70.9	68.1	68.1	30.075	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	22	1	95.7	1
9/19/2012	4:22 PM	70.8	70.9	70.8	34	41	5	NE	0.08	9	N	70.8	67.8	67.8	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	23	1	100	1
9/19/2012	4:23 PM	70.8	70.8	70.8	35	41.8	4	ENE	0.07	7	ENE	70.8	67.9	67.9	30.076	0	0	0	0.004	76.8	39	50	75.9	7.51	0.0735	24	1	100	1
9/19/2012	4:24 PM	70.9	70.9	70.8	35	41.9	6	E	0.1	9	NE	70.9	68.1	68.1	30.076	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23	1	100	1
9/19/2012	4:25 PM	70.9	70.9	70.9	35	41.9	3	E	0.05	7	ENE	70.9	68.1	68.1	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	24	1	100	1
9/19/2012	4:26 PM	70.8	70.9	70.8	35	41.8	5	ENE	0.08	8	ENE	70.8	67.9	67.9	30.078	0	0	0	0.004	76.6	39	49.8	75.7	7.52	0.0735	23	1	100	1
9/19/2012	4:27 PM	70.7	70.8	70.7	34	40.9	6	ENE	0.1	9	ENE	70.7	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	24	1	100	1
9/19/2012	4:28 PM	70.7	70.7	70.7	34	40.9	6	E	0.1	11	ENE	70.7	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	23	1	100	1
9/19/2012	4:29 PM	70.6	70.6	70.6	35	41.6	3	E	0.05	6	E	70.6	67.7	67.7	30.076	0	0	0	0.004	76.4	39	49.6	75.5	7.52	0.0735	23	1	100	1
9/19/2012	4:30 PM	70.5	70.6	70.5	35	41.5	4	ENE	0.07	7	ENE	70.5	67.6	67.6	30.077	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	24	1	100	1
9/19/2012	4:31 PM	70.5	70.5	70.5	35	41.5	4	NE	0.07	8	E	70.5	67.6	67.6	30.075	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	23	1	100	1
9/19/2012	4:32 PM	70.5	70.5	70.5	35	41.5	3	NNE	0.05	6	NNE	70.5	67.6	67.6	30.077	0	0	0	0.004	76.3	39	49.5	75.4	7.52	0.0735	24	1	100	1
9/19/2012	4:33 PM	70.4	70.4	70.4	35	41.4	3	NE	0.05	5	NNE	70.4	67.4	67.4	30.078	0	0	0	0.004	76.1	39	49.3	75.2	7.53	0.0736	23	1	100	1
9/19/2012	4:34 PM	70.4	70.4	70.4	35	41.4	4	NNE	0.07	6	N	70.4	67.4	67.4	30.079	0	0	0	0.004	76.1	39	49.3	75.2	7.53	0.0736	23	1	100	1
9/19/2012	4:35 PM	70.3	70.4	70.3	34	40.6	3	E	0.05	5	E	70.3	67.2	67.2	30.078	0	0	0	0.004	75.9	39	49.2	74.9	7.53	0.0736	24	1	100	1
9/19/2012	4:36 PM	70.3	70.4	70.3	35	41.3	4	ENE	0.07	6	E	70.3	67.3	67.3	30.077	0	0	0	0.004	75.9	39	49.2	74.9	7.53	0.0736	23	1	100	1
9/19/2012	4:37 PM	70.3	70.3	70.3	34	40.6	4	ENE	0.07	7	ENE	70.3	67.2	67.2	30.078	0	0	0	0.004	75.9	40	49.8	75	7.63	0.0736	24	1	100	1
9/19/2012	4:38 PM	70.3	70.3	70.3	34	40.6	3	ENE	0.05	6	N	70.3	67.2	67.2	30.077	0	0	0	0.004	75.7	40	49.7	74.8	7.64	0.0736	23	1	100	1
9/19/2012	4:39 PM	70.3	70.3	70.3	33	39.8	3	E	0.05	5	ENE	70.3	67.1	67.1	30.082	0	0	0	0.004	75.7	40	49.7	74.8	7.64	0.0736	22	1	95.7	1
9/19/2012	4:40 PM	70.3	70.3	70.2	34	40.6	4	NE	0.07	9	ENE	70.3	67.2	67.2	30.081	0	0	0	0.004	75.6	40	49.6	74.7	7.64	0.0737	24	1	100	1
9/19/2012	4:41 PM	70.3	70.3	70.3	34	40.6	2	ENE	0.03	4	NNE	70.3	67.2	67.2	30.081	0	0	0	0.004	75.6	40	49.6	74.7	7.64	0.0737	23	1	100	1
9/19/2012	4:42 PM	70.3	70.3	70.3	35	41.3	2	NE	0.03	4	NNE	70.3	67.3	67.3	30.079	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	24	1	100	1
9/19/2012	4:43 PM	70.4	70.4	70.4	34	40.7	3	N	0.05	8	N	70.4	67.3	67.3	30.082	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	23	1	100	1
9/19/2012	4:44 PM	70.5	70.5	70.4	35	41.5	3	NNE	0.05	7	NNE	70.5	67.6	67.6	30.08	0	0	0	0.004	75.4	40	49.4	74.6	7.64	0.0737	24	1	100	1
9/19/2012	4:45 PM	70.6	70.6	70.6	34	40.9	3	E	0.05	8	ENE	70.6	67.6	67.6	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	23	1	100	1
9/19/2012	4:46 PM	70.7	70.7	70.6	34	40.9	3	NNE	0.05	5	E	70.7	67.7	67.7	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	22	1	95.7	1
9/19/2012	4:47 PM	70.8	70.8	70.7	34	41	4	NE	0.07	8	NNW	70.8	67.8	67.8	30.083	0	0	0	0.004	75.2	40	49.2	74.4	7.65	0.0737	24	1	100	1
9/19/2012	4:48 PM	70.8	70.8	70.8	35	41.8	3	ENE	0.05	6	E	70.8	67.9	67.9	30.084	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	23	1	100	1
9/19/2012	4:49 PM	70.8	70.8	70.7	35	41.8	2	ENE	0.03	5	N	70.8	67.9	67.9	30.083	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	24	1	100	1
9/19/2012	4:50 PM	70.8	70.8	70.8	35	41.8	1	ENE	0.02	3	ENE	70.8	67.9	67.9	30.083	0	0	0	0.004	75	40	49	74.2	7.65	0.0738	22	1	95.7	1
9/19/2012	4:51 PM	71	71	70.8	35	42	2	NNE	0.03	4	NE	71	68.2	68.2	30.084	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	23	1	100	1
9/19/2012	4:52 PM	71.1	71.1	71	34	41.3	2	NNE	0.03	4	NNE	71.1	68.2	68.2	30.084	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	24	1	100	1
9/19/2012	4:53 PM	71.2	71.2	71.1	35	42.1	4	NE	0.07	10	NNW	71.2	68.5	68.5	30.085	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	23	1	100	1
9/19/2012	4:54 PM	71.2	71.2	71.1	34	41.4	1	NE	0.02	2	NE	71.2	68.4	68.4	30.085	0	0	0	0.004	74.9	40	48.9	74.1	7.65	0.0738	24	1	100	1
9/19/2012	4:55 PM	71.1	71.2	71.1	34	41.3	3	ENE	0.05	5	ENE	71.1	68.2	68.2	30.083	0	0	0	0.004	74.7	40	48.8	73.9	7.66	0.0738	23	1	100	1
9/19/2012	4:56 PM	71	71.1	71	35	42	4	NNW	0.07	8	NNW	71	68.2	68.2	30.084	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	24	1	100	1
9/19/2012	4:57 PM	71	71.1	71	35	42	2	NE	0.03	4	N	71	68.2	68.2	30.083	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	23	1	100	1
9/19/2012	4:58 PM	71	71	71	34	41.2	3	E	0.05	4	NE	71	68.1	68.1	30.081	0	0	0	0.004	74.7	41	49.4	74	7.76	0.0738	22	1	95.7	1
9/19/2012	4:59 PM	70.9	70.9	70.9	35	41.9	5	NE	0.08	9	ENE	70.9	68.1	68.1	30.083	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	24	1	100	1
9/19/2012	5:00 PM	70.8	70.9	70.8	35	41.8	4	E	0.07	6	E	70.8	67.9	67.9	30.084	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	22	1	95.7	1
9/19/2012	5:01 PM	70.8	70.8	70.8	35	41.8	2	N	0.03	5	NNE	70.8	67.9	67.9	30.084	0	0	0	0.004	74.5	41	49.2	73.7	7.77	0.0738	24	1	100	1
9/19/2012	5:02 PM	70.8	70.8	70.8	35	41.8	4	NNW	0.07	7	N	70.8	67.9	67.9	30.084	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	22	1	95.7	1
9/19/2012	5:03 PM	70.8	70.8	70.8	35	41.8	2	NNE	0.03	4	N	70.8	67.9	67.9	30.085	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	22	1	95.7	1
9/19/2012	5:04 PM	70.8	70.8	70.8	35	41.8	3	NE	0.05	6	E	70.8	67.9	67.9	30.086	0	0	0	0.004	74.3	41	49.1	73.5	7.78	0.0739	23	1	100	1
9/19/2012	5:05 PM	70.7	70.8	70.7	36	42.4	2	NE	0.03	4	NE	70.7	67.9	67.9	30.087	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	23	1	100	1
9/19/2012	5:06 PM	70.7	70.7	70.7	36	42.4	1	NE	0.02	3	NNE	70.7	67.9	67.9	30.085	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	23	1	100	1
9/19/2012	5:07 PM	70.6	70.7	70.6	35	41.6	3	NNE	0.05	5	NNE	70.6	67.7	67.7	30.085	0	0	0	0.004	74.2	41	49	73.4	7.78	0.0739	22	1	95.7	1
9/19/2012	5:08 PM	70.6	70.6	70.6	36	42.3	3	NNW	0.05	5	N	70.6	67.8	67.8	30.084	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	24	1	100	1
9/19/2012	5:09 PM	70.6	70.6	70.6	37	43.1	2	NNW	0.03	3	NNW	70.6	67.8	67.8	30.083	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	22	1	95.7	1
9/19/2012	5:10 PM	70.7	70.7	70.6	37	43.1	2	E	0.03	5	E	70.7	68	68	30.085	0	0	0	0.004	74	41	48.8	73.2	7.79	0.0739	23	1	100	1
9/19/2012	5:11 PM	70.7	70.7	70.7	35	41.7	1	ENE	0.02	2	NE	70.7	67.8	67.8	30.084	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	23	1	100	1
9/19/2012	5:12 PM	70.6	70.7	70.6	36	42.3	2	ENE	0.03	4	ENE	70.6	67.8	67.8	30.083	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	23	1	100	1
9/19/2012	5:13 PM	70.6	70.6	70.6	36	42.3	3	ENE	0.05	5	ENE	70.6	67.8	67.8	30.083	0	0	0	0.004	73.8	41	48.6	72.9	7.8	0.0739	24	1	100	1
9/19/2012	5:14 PM	70.5	70.6	70.5	36	42.2	3	ENE	0.05	7	ENE	70.5	67.6	67.6	30.085	0	0	0	0.004	73.6	41	48.4	72.6	7.81	0.074	23	1	100	1
9/19/2012	5:15 PM	70.4	70.5	70.4	36	42.2	3	ENE	0.05	7	NW	70.4	67.5	67.5	30.088	0	0	0	0.004	73.6	41	48.4	72.6	7.81	0.074	23	1	100	1
9/19/2012	5:16 PM	70.4	70.4	70.4	36	42.2	3	NNW	0.05	6	NNW	70.4	67.5	67.5	30.087	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	24	1	100	1
9/19/2012	5:17 PM	70.5	70.5	70.4	36	42.2	2	NNW	0.03	5	NNW	70.5	67.6	67.6	30.086	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	23	1	100	1
9/19/2012	5:18 PM	70.5	70.5	70.4	37	43	1	NNW	0.02	3	NW	70.5	67.7	67.7	30.087	0	0	0	0.004	73.5	41	48.4	72.5	7.81	0.074	24	1	100	1
9/19/2012	5:19 PM	70.5	70.5	70.5	36	42.2	1	NW	0.02	3	NNW	70.5	67.6	67.6	30.087	0	0	0	0.004	73.3	41	48.2	72.2	7.82	0.074	22	1	95.7	1
9/19/2012	5:20 PM	70.6	70.6	70.5	36	42.3	1	NNW	0.02	2	NNW	70.6	67.8	67.8	30.087	0	0	0	0.004	73.3	42	48.8	72.3	7.98	0.074	23	1	100	1
9/19/2012	5:21 PM	70.7	70.7	70.6	37	43.1	2	NNE	0.03	5	E	70.7	68	68	30.087	0	0	0	0.004	73.3	42	48.8	72.3	7.98	0.074	23	1	100	1
9/19/2012	5:22 PM	70.7	70.7	70.7	37	43.1	4	ENE	0.07	6	NNW	70.7	68	68	30.087	0	0	0	0.004	73.1	42	48.6	72	7.99	0.074	23	1	100	1
9/19/2012	5:23 PM	70.8	70.8	70.7	37	43.2	4	E	0.07	6	E	70.8	68.1	68.1	30.088	0	0	0	0.004	73.1	42	48.6	72	7.99	0.074	24	1	100	1
9/19/2012	5:24 PM	70.8	70.8	70.8	38	43.9	3	E	0.05	7	NE	70.8	68.2	68.2	30.088	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	23	1	100	1
9/19/2012	5:25 PM	70.7	70.8	70.7	37	43.1	5	ENE	0.08	7	NE	70.7	68	68	30.089	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	24	1	100	1
9/19/2012	5:26 PM	70.6	70.7	70.6	38	43.7	2	ENE	0.03	5	NE	70.6	67.9	67.9	30.089	0	0	0	0.004	73	42	48.5	71.9	7.99	0.0741	23	1	100	1
9/19/2012	5:27 PM	70.5	70.6	70.5	37	43	4	NE	0.07	6	NE	70.5	67.7	67.7	30.09	0	0	0	0.004	72.8	42	48.4	71.5	7.99	0.0741	23	1	100	1
9/19/2012	5:28 PM	70.4	70.5	70.4	37	42.9	4	NE	0.07	6	NE	70.4	67.6	67.6	30.093	0	0	0	0.004	72.8	42	48.4	71.5	7.99	0.0741	24	1	100	1
9/19/2012	5:29 PM	70.3	70.4	70.3	37	42.8	2	NE	0.03	4	NE	70.3	67.5	67.5	30.092	0	0	0	0.004	72.6	42	48.2	71.2	8	0.0741	23	1	100	1
9/19/2012	5:30 PM	70.2	70.3	70.2	38	43.4	4	NE	0.07	9	NNE	70.2	67.4	67.4	30.091	0	0	0	0.004	72.6	42	48.2	71.2	8	0.0741	24	1	100	1
9/19/2012	5:31 PM	70.2	70.2	70.2	36	42	1	NNE	0.02	3	NNE	70.2	67.2	67.2	30.092	0	0	0	0.004	72.4	42	48	70.9	8	0.0742	23	1	100	1
9/19/2012	5:32 PM	70.1	70.1	70.1	36	41.9	2	NNE	0.03	4	NNE	70.1	67.1	67.1	30.091	0	0	0	0.004	72.4	42	48	70.9	8	0.0742	23	1	100	1
9/19/2012	5:33 PM	70	70.1	70	37	42.5	1	NE	0.02	3	ENE	70	67.1	67.1	30.088	0	0	0	0.003	72.4	42	48	70.9	8	0.0742	24	1	100	1
9/19/2012	5:34 PM	70.1	70.1	70	39	44	2	NE	0.03	4	NNW	70.1	67.3	67.3	30.088	0	0	0	0.004	72.3	42	47.9	70.8	8	0.0742	23	1	100	1
9/19/2012	5:35 PM	70	70.1	70	38	43.2	1	NNW	0.02	4	NNW	70	67.1	67.1	30.089	0	0	0	0.003	72.3	42	47.9	70.8	8	0.0742	23	1	100	1
9/19/2012	5:36 PM	70	70	70	37	42.5	2	NNE	0.03	3	NNE	70	67.1	67.1	30.09	0	0	0	0.003	72.1	42	47.7	70.5	8.01	0.0742	23	1	100	1
9/19/2012	5:37 PM	70	70	70	37	42.5	4	NE	0.07	6	N	70	67.1	67.1	30.091	0	0	0	0.003	72.1	42	47.7	70.5	8.01	0.0742	24	1	100	1
9/19/2012	5:38 PM	70	70	70	37	42.5	4	E	0.07	6	E	70	67.1	67.1	30.093	0	0	0	0.003	71.9	42	47.6	70.1	8.01	0.0743	23	1	100	1
9/19/2012	5:39 PM	69.9	70	69.9	38	43.1	4	ENE	0.07	7	ENE	69.9	67.1	67.1	30.092	0	0	0	0.003	71.9	42	47.6	70.1	8.01	0.0743	23	1	100	1
9/19/2012	5:40 PM	69.9	69.9	69.9	38	43.1	3	NE	0.05	5	NE	69.9	67.1	67.1	30.092	0	0	0	0.003	71.8	43	48.1	70.1	8.18	0.0743	23	1	100	1
9/19/2012	5:41 PM	69.9	69.9	69.9	38	43.1	3	NE	0.05	4	NE	69.9	67.1	67.1	30.093	0	0	0	0.003	71.8	43	48.1	70.1	8.18	0.0743	23	1	100	1
9/19/2012	5:42 PM	69.9	69.9	69.8	38	43.1	1	NE	0.02	2	NE	69.9	67.1	67.1	30.095	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	24	1	100	1
9/19/2012	5:43 PM	69.8	69.8	69.8	37	42.3	1	NE	0.02	4	N	69.8	66.9	66.9	30.094	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	23	1	100	1
9/19/2012	5:44 PM	69.8	69.8	69.8	38	43	3	NNE	0.05	6	NNE	69.8	67	67	30.094	0	0	0	0.003	71.6	43	47.9	69.8	8.19	0.0743	23	1	100	1
9/19/2012	5:45 PM	69.8	69.8	69.8	38	43	4	E	0.07	8	N	69.8	67	67	30.095	0	0	0	0.003	71.4	43	47.7	69.5	8.19	0.0743	24	1	100	1
9/19/2012	5:46 PM	69.9	69.9	69.8	38	43.1	3	ENE	0.05	6	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.4	43	47.7	69.5	8.19	0.0743	23	1	100	1
9/19/2012	5:47 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	8	NNE	69.9	67.1	67.1	30.095	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	24	1	100	1
9/19/2012	5:48 PM	69.9	69.9	69.9	38	43.1	4	NE	0.07	5	NE	69.9	67.1	67.1	30.096	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:49 PM	69.9	69.9	69.9	39	43.8	6	NE	0.1	8	N	69.9	67.1	67.1	30.098	0	0	0	0.003	71.2	43	47.6	69.2	8.2	0.0744	23	1	100	1
9/19/2012	5:50 PM	69.8	69.9	69.8	38	43	5	ENE	0.08	8	NE	69.8	67	67	30.096	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	22	1	95.7	1
9/19/2012	5:51 PM	69.7	69.8	69.7	39	43.6	4	E	0.07	7	ENE	69.7	67	67	30.098	0	0	0	0.003	71.1	43	47.5	69.1	8.21	0.0744	23	1	100	1
9/19/2012	5:52 PM	69.6	69.7	69.6	39	43.5	3	ENE	0.05	7	ENE	69.6	66.9	66.9	30.098	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:53 PM	69.6	69.7	69.6	39	43.5	4	ENE	0.07	7	ENE	69.6	66.9	66.9	30.097	0	0	0	0.003	70.9	43	47.3	68.8	8.21	0.0744	23	1	100	1
9/19/2012	5:54 PM	69.6	69.6	69.6	39	43.5	4	NNE

Meteorological Data
Equity IRM

9/19/2012	7:14 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	4	NNE	67.5	65.4	65.4	30.123	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0753	24	1	100	1
9/19/2012	7:15 PM	67.5	67.5	67.5	43	44.2	2	NNE	0.03	3	NNE	67.5	65.4	65.4	30.124	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0753	23	1	100	1
9/19/2012	7:16 PM	67.5	67.5	67.5	43	44.2	3	NE	0.05	5	NE	67.5	65.4	65.4	30.126	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/19/2012	7:17 PM	67.4	67.5	67.4	43	44.1	1	NE	0.02	3	NE	67.4	65.3	65.3	30.126	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/19/2012	7:18 PM	67.4	67.5	67.4	43	44.1	2	NE	0.03	4	NE	67.4	65.3	65.3	30.123	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:19 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	6	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/19/2012	7:20 PM	67.4	67.4	67.4	43	44.1	5	E	0.08	8	E	67.4	65.3	65.3	30.124	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/19/2012	7:21 PM	67.5	67.5	67.4	43	44.2	3	ENE	0.05	5	ENE	67.5	65.4	65.4	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:22 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	22	1	95.7	1
9/19/2012	7:23 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	ENE	67.4	65.3	65.3	30.123	0	0	0	0.002	64.9	48	44.7	63	8.95	0.0754	24	1	100	1
9/19/2012	7:24 PM	67.4	67.5	67.4	43	44.1	3	ENE	0.05	5	NE	67.4	65.3	65.3	30.124	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:25 PM	67.4	67.4	67.4	43	44.1	2	NE	0.03	4	ENE	67.4	65.3	65.3	30.122	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:26 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	5	E	67.4	65.3	65.3	30.123	0	0	0	0.002	64.8	48	44.6	62.9	8.96	0.0754	23	1	100	1
9/19/2012	7:27 PM	67.4	67.4	67.4	43	44.1	3	ENE	0.05	4	ENE	67.4	65.3	65.3	30.125	0	0	0	0.002	64.6	48	44.5	62.7	8.97	0.0755	23	1	100	1
9/19/2012	7:28 PM	67.4	67.4	67.4	43	44.1	2	ENE	0.03	3	ENE	67.4	65.3	65.3	30.125	0	0	0	0.002	64.6	48	44.5	62.7	8.97	0.0755	23	1	100	1
9/19/2012	7:29 PM	67.3	67.4	67.3	43	44	3	NE	0.05	5	NE	67.3	65.2	65.2	30.127	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	22	1	95.7	1
9/19/2012	7:30 PM	67.3	67.4	67.3	43	44	2	NE	0.03	4	NE	67.3	65.2	65.2	30.127	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	23	1	100	1
9/19/2012	7:31 PM	67.3	67.3	67.3	43	44	2	E	0.03	5	E	67.3	65.2	65.2	30.126	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	23	1	100	1
9/19/2012	7:32 PM	67.3	67.3	67.3	43	44	4	NE	0.07	8	N	67.3	65.2	65.2	30.126	0	0	0	0.002	64.5	48	44.4	62.6	8.97	0.0755	22	1	95.7	1
9/19/2012	7:33 PM	67.2	67.3	67.2	43	43.9	3	ENE	0.05	7	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	24	1	100	1
9/19/2012	7:34 PM	67.2	67.3	67.2	43	43.9	2	E	0.03	5	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	21	1	91.3	1
9/19/2012	7:35 PM	67.2	67.2	67.2	43	43.9	2	E	0.03	3	E	67.2	65.1	65.1	30.127	0	0	0	0.002	64.3	48	44.2	62.4	8.98	0.0755	23	1	100	1
9/19/2012	7:36 PM	67.2	67.2	67.2	44	44.5	2	E	0.03	5	E	67.2	65.2	65.2	30.129	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	22	1	95.7	1
9/19/2012	7:37 PM	67.2	67.2	67.2	43	43.9	4	E	0.07	6	E	67.2	65.1	65.1	30.127	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:38 PM	67.2	67.2	67.2	43	43.9	3	E	0.05	5	E	67.2	65.1	65.1	30.128	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:39 PM	67.2	67.2	67.2	43	43.9	3	E	0.05	9	N	67.2	65.1	65.1	30.127	0	0	0	0.002	64.1	48	44	62.1	8.99	0.0756	23	1	100	1
9/19/2012	7:40 PM	67.2	67.2	67.2	43	43.9	3	NE	0.05	5	NE	67.2	65.1	65.1	30.127	0	0	0	0.002	64	48	43.9	62	8.99	0.0756	22	1	95.7	1
9/19/2012	7:41 PM	67.1	67.1	67.1	43	43.8	4	ENE	0.07	6	E	67.1	65	65	30.126	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	22	1	95.7	1
9/19/2012	7:42 PM	67.1	67.2	67.1	43	43.8	3	E	0.05	6	E	67.1	65	65	30.125	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/19/2012	7:43 PM	67.1	67.1	67.1	43	43.8	3	NE	0.05	4	NE	67.1	65	65	30.124	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/19/2012	7:44 PM	67	67.1	67	44	44.4	2	ENE	0.03	3	ENE	67	65	65	30.125	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:45 PM	67	67	67	43	43.8	3	ENE	0.05	6	NE	67	64.9	64.9	30.127	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:46 PM	67	67	67	43	43.8	4	NE	0.07	6	NE	67	64.9	64.9	30.126	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/19/2012	7:47 PM	66.9	67	66.9	43	43.7	3	E	0.05	5	NNE	66.9	64.7	64.7	30.126	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0756	24	1	100	1
9/19/2012	7:48 PM	66.9	66.9	66.9	43	43.7	3	E	0.05	6	E	66.9	64.7	64.7	30.127	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0756	23	1	100	1
9/19/2012	7:49 PM	66.9	66.9	66.9	42	43	4	ENE	0.07	7	ENE	66.9	64.6	64.6	30.128	0	0	0	0.001	63.6	49	44.1	61.7	9.21	0.0756	23	1	100	1
9/19/2012	7:50 PM	66.8	66.9	66.8	43	43.6	3	ENE	0.05	5	ENE	66.8	64.6	64.6	30.128	0	0	0	0.001	63.6	49	44.1	61.7	9.21	0.0756	24	1	100	1
9/19/2012	7:51 PM	66.8	66.9	66.8	43	43.6	3	ENE	0.05	5	ENE	66.8	64.6	64.6	30.129	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	22	1	95.7	1
9/19/2012	7:52 PM	66.8	66.8	66.8	43	43.6	3	NE	0.05	4	ENE	66.8	64.6	64.6	30.129	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	24	1	100	1
9/19/2012	7:53 PM	66.7	66.8	66.7	43	43.5	4	NE	0.07	7	NE	66.7	64.5	64.5	30.13	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	22	1	95.7	1
9/19/2012	7:54 PM	66.7	66.7	66.7	43	43.5	2	ENE	0.03	4	NE	66.7	64.5	64.5	30.13	0	0	0	0.001	63.5	49	44	61.6	9.21	0.0757	23	1	100	1
9/19/2012	7:55 PM	66.7	66.7	66.7	43	43.5	3	ENE	0.05	5	ENE	66.7	64.5	64.5	30.128	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	22	1	95.7	1
9/19/2012	7:56 PM	66.6	66.7	66.6	43	43.4	3	E	0.05	7	NNE	66.6	64.4	64.4	30.129	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	23	1	100	1
9/19/2012	7:57 PM	66.6	66.6	66.6	43	43.4	4	ENE	0.07	7	NE	66.6	64.4	64.4	30.128	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	24	1	100	1
9/19/2012	7:58 PM	66.6	66.6	66.6	42	42.8	3	NNE	0.05	6	NE	66.6	64.3	64.3	30.13	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	22	1	95.7	1
9/19/2012	7:59 PM	66.6	66.6	66.6	42	42.8	3	ENE	0.05	5	NE	66.6	64.3	64.3	30.131	0	0	0	0.001	63.3	49	43.8	61.3	9.22	0.0757	24	1	100	1
9/19/2012	8:00 PM	66.6	66.6	66.6	43	43.4	1	ENE	0.02	4	ENE	66.6	64.4	64.4	30.131	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	22	1	95.7	1
9/19/2012	8:01 PM	66.5	66.6	66.5	43	43.3	2	NE	0.03	4	NE	66.5	64.3	64.3	30.131	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	23	1	100	1
9/19/2012	8:02 PM	66.5	66.5	66.5	42	42.7	3	N	0.05	7	N	66.5	64.2	64.2	30.133	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	24	1	100	1
9/19/2012	8:03 PM	66.5	66.5	66.5	42	42.7	3	NE	0.05	5	N	66.5	64.2	64.2	30.134	0	0	0	0.001	63.2	49	43.7	61.2	9.22	0.0757	22	1	95.7	1
9/19/2012	8:04 PM	66.5	66.5	66.4	42	42.7	4	NE	0.07	7	ENE	66.5	64.2	64.2	30.135	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	24	1	100	1
9/19/2012	8:05 PM	66.4	66.5	66.4	42	42.6	2	NE	0.03	6	E	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:06 PM	66.4	66.5	66.4	42	42.6	3	ENE	0.05	6	NNW	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:07 PM	66.4	66.4	66.4	42	42.6	4	NE	0.07	6	NNE	66.4	64.1	64.1	30.137	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	24	1	100	1
9/19/2012	8:08 PM	66.4	66.4	66.4	42	42.6	3	NE	0.05	5	NE	66.4	64.1	64.1	30.136	0	0	0	0.001	63	49	43.5	61	9.23	0.0758	23	1	100	1
9/19/2012	8:09 PM	66.4	66.4	66.4	42	42.6	3	ENE	0.05	5	ENE	66.4	64.1	64.1	30.137	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	24	1	100	1
9/19/2012	8:10 PM	66.4	66.4	66.4	42	42.6	3	E	0.05	6	E	66.4	64.1	64.1	30.137	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	23	1	100	1
9/19/2012	8:11 PM	66.4	66.4	66.4	42	42.6	4	NE	0.07	5	E	66.4	64.1	64.1	30.139	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	22	1	95.7	1
9/19/2012	8:12 PM	66.4	66.4	66.4	42	42.6	3	NE	0.05	5	NNE	66.4	64.1	64.1	30.139	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	24	1	100	1
9/19/2012	8:13 PM	66.4	66.4	66.4	42	42.6	4	N	0.07	7	N	66.4	64.1	64.1	30.14	0	0	0	0.001	62.9	49	43.4	60.9	9.23	0.0758	23	1	100	1
9/19/2012	8:14 PM	66.3	66.4	66.3	42	42.5	4	ENE	0.07	7	ENE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	24	1	100	1
9/19/2012	8:15 PM	66.3	66.3	66.3	42	42.5	3	NE	0.05	5	NNE	66.3	63.9	63.9	30.142	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	23	1	100	1
9/19/2012	8:16 PM	66.3	66.3	66.3	42	42.5	3	NE	0.05	5	NE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	24	1	100	1
9/19/2012	8:17 PM	66.3	66.3	66.3	42	42.5	4	ENE	0.07	7	ENE	66.3	63.9	63.9	30.141	0	0	0	0.001	62.7	49	43.3	60.7	9.24	0.0758	23	1	100	1
9/19/2012	8:18 PM	66.4	66.4	66.3	42	42.6	4	E	0.07	6	E	66.4	64.1	64.1	30.141	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	23	1	100	1
9/19/2012	8:19 PM	66.3	66.4	66.3	43	43.1	3	NNW	0.05	6	NW	66.3	64	64	30.141	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	24	1	100	1
9/19/2012	8:20 PM	66.3	66.3	66.3	43	43.1	4	NNW	0.07	7	N	66.3	64	64	30.139	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0758	23	1	100	1
9/19/2012	8:21 PM	66.3	66.3	66.3	43	43.1	3	N	0.05	5	NW	66.3	64	64	30.139	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0758	23	1	100	1
9/19/2012	8:22 PM	66.2	66.3	66.2	43	43	2	N	0.03	4	N	66.2	63.9	63.9	30.139	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/19/2012	8:23 PM	66.1	66.2	66.1	43	42.9	2	NNE	0.03	4	NNE	66.1	63.8	63.8	30.138	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/19/2012	8:24 PM	66.1	66.1	66.1	43	42.9	1	NNE	0.02	3	NNE	66.1	63.8	63.8	30.138	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	22	1	95.7	1
9/19/2012	8:25 PM	66	66.1	66	43	42.9	2	NNE	0.03	3	NNE	66	63.7	63.7	30.138	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	23	1	100	1
9/19/2012	8:26 PM	65.9	66	65.9	43	42.8	3	NE	0.05	5	NNW	65.9	63.6	63.6	30.139	0	0	0	0.001	62.4	50	43.5	60.5	9.4	0.0758	23	1	100	1
9/19/2012	8:27 PM	65.9	65.9	65.9	43	42.8	2	NE	0.03	5	NE	65.9	63.6	63.6	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	22	1	95.7	1
9/19/2012	8:28 PM	65.9	65.9	65.9	43	42.8	4	NE	0.07	6	NNW	65.9	63.6	63.6	30.143	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	22	1	95.7	1
9/19/2012	8:29 PM	65.9	65.9	65.9	43	42.8	2	NE	0.03	4	NE	65.9	63.6	63.6	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	23	1	100	1
9/19/2012	8:30 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	3	NE	65.9	63.7	63.7	30.141	0	0	0	0.001	62.2	50	43.3	60.3	9.41	0.0759	21	1	91.3	1
9/19/2012	8:31 PM	65.9	65.9	65.9	44	43.4	1	NE	0.02	3	NE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	24	1	100	1
9/19/2012	8:32 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	3	NE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	22	1	95.7	1
9/19/2012	8:33 PM	65.9	65.9	65.9	44	43.4	2	NE	0.03	4	ENE	65.9	63.7	63.7	30.143	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	23	1	100	1
9/19/2012	8:34 PM	65.9	65.9	65.8	43	42.8	3	E	0.05	6	E	65.9	63.6	63.6	30.142	0	0	0	0.001	62.1	50	43.2	60.2	9.41	0.0759	23	1	100	1
9/19/2012	8:35 PM	65.9	65.9	65.8	44	43.4	2	ENE	0.03	4	NE	65.9	63.7	63.7	30.145	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	22	1	95.7	1
9/19/2012	8:36 PM	65.9	65.9	65.9	43	42.8	2	E	0.03	4	ENE	65.9	63.6	63.6	30.142	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	24	1	100	1
9/19/2012	8:37 PM	65.9	65.9	65.9	43	42.8	2	ENE	0.03	4	N	65.9	63.6	63.6	30.141	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	20	1	87	1
9/19/2012	8:38 PM	65.9	65.9	65.9	43	42.8	3	NNE	0.05	5	N	65.9	63.6	63.6	30.141	0	0	0	0.001	61.9	50	43	60	9.41	0.0759	24	1	100	1
9/19/2012	8:39 PM	65.9	65.9	65.9	44	43.4	3	NNE	0.05	5	NNE	65.9	63.7	63.7	30.141	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	22	1	95.7	1
9/19/2012	8:40 PM	65.8	65.9	65.8	44	43.3	2	NNE	0.03	5	NNE	65.8	63.6	63.6	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	24	1	100	1
9/19/2012	8:41 PM	65.8	65.8	65.8	43	42.7	1	NNE	0.02	3	NNE	65.8	63.5	63.5	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	22	1	95.7	1
9/19/2012	8:42 PM	65.8	65.8	65.8	44	43.3	2	NE	0.03	4	NE	65.8	63.6	63.6	30.142	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	23	1	100	1
9/19/2012	8:43 PM	65.8	65.8	65.8	44	43.3	3	NE	0.05	8	ENE	65.8	63.6	63.6	30.144	0	0	0	0.001	61.8	50	43	59.9	9.41	0.076	23	1	100	1
9/19/2012	8:44 PM	65.8	65.8	65.8	43	42.7	4	ENE	0.07	8	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:45 PM	65.8	65.8	65.8	43	42.7	3	ENE	0.05	5	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:46 PM	65.8	65.8	65.8	43	42.7	2	ENE	0.03	3	ENE	65.8	63.5	63.5	30.145	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:47 PM	65.8	65.8	65.8	43	42.7	3	ENE	0.05	7	ENE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.6	50	42.8	59.7	9.42	0.076	23	1	100	1
9/19/2012	8:48 PM	65.8	65.9	65.8	44	43.3	3	NNE	0.05	4	NNE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:49 PM	65.8	65.9	65.8	44	43.3	2	NE	0.03	4	NE	65.8	63.6	63.6	30.147	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:50 PM	65.8	65.8	65.8	44	43.3	3	NE	0.05	5	NNE	65.8	63.6	63.6	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:51 PM	65.7	65.8	65.7	44	43.2	4	ENE	0.07	5	NE	65.7	63.5	63.5	30.148	0	0	0	0	61.4	50	42.6	59.4	9.42	0.076	23	1	100	1
9/19/2012	8:52 PM	65.8	65.8	65.7	43	42.7	3	NE	0.05	5	NNE	65.8	63.5	63.5	30.148	0	0	0	0.001	61.4	50	42.6	59.4	9.42	0.076	24	1	100	1
9/19/2012	8:53 PM	65.7	65.8	65.7	43	42.6	3	NE	0.05	9	N	65.7	63.4	63.4	30.147	0	0	0	0	61.3	50	42.5	59.3	9.42	0.0761	23	1	100

Meteorological Data
Equity IRM

9/19/2012	10:14 PM	64.6	64.7	64.6	51	46.1	2	E	0.03	5	E	64.6	63	63	30.174	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:15 PM	64.6	64.6	64.6	51	46.1	1	E	0.02	3	E	64.6	63	63	30.172	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:16 PM	64.6	64.6	64.6	51	46.1	2	E	0.03	5	E	64.6	63	63	30.172	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	22	1	95.7	1
9/19/2012	10:17 PM	64.5	64.6	64.5	51	46	2	E	0.03	3	E	64.5	62.8	62.8	30.17	0	0	0	0	59.3	53	42.2	57.5	9.95	0.0764	23	1	100	1
9/19/2012	10:18 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:19 PM	64.5	64.5	64.5	51	46	3	E	0.05	5	E	64.5	62.8	62.8	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:20 PM	64.5	64.5	64.4	52	46.5	1	ENE	0.02	2	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	23	1	100	1
9/19/2012	10:21 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	4	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:22 PM	64.5	64.5	64.5	52	46.5	2	ENE	0.03	3	ENE	64.5	63	63	30.171	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	24	1	100	1
9/19/2012	10:23 PM	64.4	64.5	64.4	52	46.4	3	ENE	0.05	5	E	64.4	62.8	62.8	30.172	0	0	0	0	59.1	53	42	57.3	9.95	0.0765	22	1	95.7	1
9/19/2012	10:24 PM	64.4	64.4	64.4	52	46.4	3	ENE	0.05	4	ENE	64.4	62.8	62.8	30.172	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:25 PM	64.4	64.4	64.4	52	46.4	2	ENE	0.03	4	ENE	64.4	62.8	62.8	30.171	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:26 PM	64.4	64.4	64.4	53	46.9	1	ENE	0.02	2	ENE	64.4	62.9	62.9	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:27 PM	64.4	64.4	64.4	53	46.9	1	ENE	0.02	2	ENE	64.4	62.9	62.9	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:28 PM	64.3	64.4	64.3	53	46.8	1	ENE	0.02	3	ENE	64.3	62.8	62.8	30.169	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:29 PM	64.3	64.3	64.3	53	46.8	2	ENE	0.03	4	ENE	64.3	62.8	62.8	30.17	0	0	0	0	59	53	41.9	57.2	9.95	0.0765	24	1	100	1
9/19/2012	10:30 PM	64.2	64.3	64.2	53	46.7	3	ENE	0.05	4	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	59	53	41.9	57.2	9.95	0.0765	23	1	100	1
9/19/2012	10:31 PM	64.2	64.3	64.2	53	46.7	2	ENE	0.03	7	ENE	64.2	62.7	62.7	30.172	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:32 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	4	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:33 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	3	ENE	64.2	62.7	62.7	30.17	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:34 PM	64.2	64.2	64.2	53	46.7	2	ENE	0.03	4	ENE	64.2	62.7	62.7	30.171	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:35 PM	64.1	64.2	64.1	53	46.6	2	ENE	0.03	7	ENE	64.1	62.6	62.6	30.172	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	23	1	100	1
9/19/2012	10:36 PM	64.1	64.2	64.1	54	47.1	1	ENE	0.02	2	ENE	64.1	62.7	62.7	30.173	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	24	1	100	1
9/19/2012	10:37 PM	64.1	64.2	64.1	54	47.1	2	ENE	0.03	4	ENE	64.1	62.7	62.7	30.174	0	0	0.001	0	58.8	53	41.7	57	9.95	0.0765	22	1	95.7	1
9/19/2012	10:38 PM	64.1	64.1	64.1	53	46.6	2	ENE	0.03	3	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:39 PM	64.1	64.1	64.1	53	46.6	3	ENE	0.05	4	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:40 PM	64.1	64.1	64.1	53	46.6	2	ENE	0.03	3	ENE	64.1	62.6	62.6	30.174	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:41 PM	64.1	64.1	64.1	54	47.1	1	ENE	0.02	2	ENE	64.1	62.7	62.7	30.173	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:42 PM	64	64.1	64	53	46.5	2	ENE	0.03	3	ENE	64	62.5	62.5	30.172	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:43 PM	64	64.1	64	54	47	1	ENE	0.02	3	ENE	64	62.6	62.6	30.171	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	24	1	100	1
9/19/2012	10:44 PM	64	64	64	54	47	2	ENE	0.03	3	ENE	64	62.6	62.6	30.171	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:45 PM	64	64	64	54	47	2	ENE	0.03	3	ENE	64	62.6	62.6	30.173	0	0	0.001	0	58.7	53	41.6	56.9	9.95	0.0765	23	1	100	1
9/19/2012	10:46 PM	64	64	64	54	47	1	ENE	0.02	3	ENE	64	62.6	62.6	30.176	0	0	0.001	0	58.5	53	41.4	56.7	9.95	0.0766	24	1	100	1
9/19/2012	10:47 PM	63.9	64	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.177	0	0	0.001	0	58.5	53	41.4	56.7	9.95	0.0766	23	1	100	1
9/19/2012	10:48 PM	63.9	63.9	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.179	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	24	1	100	1
9/19/2012	10:49 PM	63.9	63.9	63.9	54	46.9	1	ENE	0.02	2	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	23	1	100	1
9/19/2012	10:50 PM	63.9	63.9	63.9	54	46.9	3	ENE	0.05	5	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	23	1	100	1
9/19/2012	10:51 PM	63.9	63.9	63.8	54	46.9	2	ENE	0.03	3	ENE	63.9	62.5	62.5	30.178	0	0	0.001	0	58.5	54	41.9	56.8	10.15	0.0766	24	1	100	1
9/19/2012	10:52 PM	63.9	63.9	63.9	55	47.4	1	ENE	0.02	2	ENE	63.9	62.6	62.6	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:53 PM	63.8	63.9	63.8	55	47.3	2	ENE	0.03	5	ENE	63.8	62.5	62.5	30.176	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	24	1	100	1
9/19/2012	10:54 PM	63.8	63.8	63.8	55	47.3	1	ENE	0.02	2	ENE	63.8	62.5	62.5	30.176	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:55 PM	63.8	63.8	63.8	55	47.3	2	ENE	0.03	4	ENE	63.8	62.5	62.5	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	24	1	100	1
9/19/2012	10:56 PM	63.7	63.8	63.7	55	47.2	3	ENE	0.05	5	ENE	63.7	62.4	62.4	30.177	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:57 PM	63.7	63.7	63.7	55	47.2	2	ENE	0.03	3	ENE	63.7	62.4	62.4	30.178	0	0	0.001	0	58.4	54	41.8	56.7	10.15	0.0766	23	1	100	1
9/19/2012	10:58 PM	63.7	63.7	63.7	56	47.7	1	ENE	0.02	3	ENE	63.7	62.4	62.4	30.18	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	10:59 PM	63.7	63.7	63.6	55	47.2	3	ENE	0.05	4	ENE	63.7	62.4	62.4	30.181	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	23	1	100	1
9/19/2012	11:00 PM	63.6	63.6	63.6	55	47.1	3	ENE	0.05	5	ENE	63.6	62.3	62.3	30.181	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	11:01 PM	63.6	63.6	63.6	55	47.1	3	ENE	0.05	4	ENE	63.6	62.3	62.3	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	23	1	100	1
9/19/2012	11:02 PM	63.6	63.6	63.6	55	47.1	2	ENE	0.03	3	ENE	63.6	62.3	62.3	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	22	1	95.7	1
9/19/2012	11:03 PM	63.5	63.6	63.5	55	47	4	E	0.07	7	E	63.5	62.2	62.2	30.183	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	24	1	100	1
9/19/2012	11:04 PM	63.5	63.5	63.5	55	47	2	E	0.03	3	E	63.5	62.2	62.2	30.182	0	0	0.001	0	58.2	54	41.6	56.5	10.15	0.0766	22	1	95.7	1
9/19/2012	11:05 PM	63.4	63.5	63.4	55	46.9	3	E	0.05	5	E	63.4	62	62	30.182	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:06 PM	63.4	63.5	63.4	55	46.9	3	E	0.05	5	E	63.4	62	62	30.184	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	21	1	91.3	1
9/19/2012	11:07 PM	63.4	63.4	63.4	55	46.9	5	ENE	0.08	9	ENE	63.4	62	62	30.184	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:08 PM	63.4	63.4	63.4	55	46.9	5	ENE	0.08	9	ENE	63.4	62	62	30.186	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0767	22	1	95.7	1
9/19/2012	11:09 PM	63.3	63.4	63.3	55	46.9	3	ENE	0.05	7	ENE	63.3	61.9	61.9	30.186	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0767	22	1	95.7	1
9/19/2012	11:10 PM	63.2	63.3	63.2	55	46.8	4	ENE	0.07	5	ENE	63.2	61.8	61.8	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:11 PM	63.2	63.3	63.2	56	47.2	3	E	0.05	7	ENE	63.2	61.9	61.9	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	22	1	95.7	1
9/19/2012	11:12 PM	63.2	63.2	63.2	56	47.2	3	ENE	0.05	5	ENE	63.2	61.9	61.9	30.185	0	0	0.001	0	58.1	54	41.5	56.4	10.15	0.0766	24	1	100	1
9/19/2012	11:13 PM	63.1	63.2	63.1	56	47.1	2	ENE	0.03	4	ENE	63.1	61.8	61.8	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	22	1	95.7	1
9/19/2012	11:14 PM	63.1	63.1	63.1	56	47.1	2	ENE	0.03	3	ENE	63.1	61.8	61.8	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:15 PM	63.1	63.1	63.1	56	47.1	1	E	0.02	3	ENE	63.1	61.8	61.8	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:16 PM	63	63.1	63	56	47.1	1	E	0.02	3	E	63	61.7	61.7	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:17 PM	63	63	63	56	47.1	3	E	0.05	6	E	63	61.7	61.7	30.187	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:18 PM	63	63	63	56	47.1	1	E	0.02	3	E	63	61.7	61.7	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:19 PM	62.9	63	62.9	57	47.4	1	E	0.02	3	E	62.9	61.6	61.6	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:20 PM	62.9	62.9	62.9	57	47.4	2	E	0.03	3	E	62.9	61.6	61.6	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:21 PM	62.9	62.9	62.9	57	47.4	3	E	0.05	5	E	62.9	61.6	61.6	30.186	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:22 PM	62.9	62.9	62.9	57	47.4	4	ENE	0.07	7	NE	62.9	61.6	61.6	30.185	0	0	0.001	0	57.9	54	41.3	56.2	10.15	0.0767	24	1	100	1
9/19/2012	11:23 PM	62.8	62.9	62.8	57	47.3	3	E	0.05	6	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.9	54	41.3	56.2	10.15	0.0767	23	1	100	1
9/19/2012	11:24 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:25 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:26 PM	62.8	62.9	62.8	57	47.3	2	E	0.03	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:27 PM	62.8	62.8	62.8	57	47.3	1	E	0.02	3	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:28 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:29 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:30 PM	62.8	62.8	62.8	57	47.3	3	E	0.05	5	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	23	1	100	1
9/19/2012	11:31 PM	62.8	62.8	62.8	57	47.3	4	E	0.07	6	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.7	54	41.2	56	10.15	0.0767	24	1	100	1
9/19/2012	11:32 PM	62.8	62.8	62.7	57	47.3	3	E	0.05	5	E	62.8	61.5	61.5	30.182	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:33 PM	62.8	62.8	62.8	57	47.3	2	E	0.03	3	E	62.8	61.5	61.5	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:34 PM	62.7	62.8	62.7	57	47.2	4	E	0.07	6	E	62.7	61.4	61.4	30.182	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:35 PM	62.8	62.8	62.7	57	47.3	3	E	0.05	6	E	62.8	61.5	61.5	30.183	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:36 PM	62.7	62.7	62.7	57	47.2	3	E	0.05	6	E	62.7	61.4	61.4	30.183	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:37 PM	62.7	62.7	62.7	57	47.2	6	E	0.1	7	E	62.7	61.4	61.4	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:38 PM	62.7	62.7	62.7	57	47.2	3	E	0.05	7	ENE	62.7	61.4	61.4	30.184	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	23	1	100	1
9/19/2012	11:39 PM	62.7	62.7	62.7	57	47.2	2	ENE	0.03	3	ENE	62.7	61.4	61.4	30.187	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	24	1	100	1
9/19/2012	11:40 PM	62.7	62.7	62.7	57	47.2	3	ENE	0.05	6	E	62.7	61.4	61.4	30.186	0	0	0.002	0	57.6	54	41.1	55.9	10.15	0.0767	22	1	95.7	1
9/19/2012	11:41 PM	62.7	62.7	62.7	57	47.2	2	E	0.03	3	E	62.7	61.4	61.4	30.187	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:42 PM	62.7	62.7	62.7	58	47.7	3	E	0.05	5	E	62.7	61.5	61.5	30.186	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:43 PM	62.7	62.7	62.7	57	47.2	4	ENE	0.07	5	ENE	62.7	61.4	61.4	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:44 PM	62.7	62.7	62.6	57	47.2	5	ENE	0.08	7	ENE	62.7	61.4	61.4	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:45 PM	62.7	62.7	62.7	57	47.2	4	E	0.07	6	E	62.7	61.4	61.4	30.186	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:46 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:47 PM	62.6	62.7	62.6	57	47.1	2	E	0.03	3	E	62.6	61.3	61.3	30.184	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:48 PM	62.6	62.6	62.6	57	47.1	2	E	0.03	5	E	62.6	61.3	61.3	30.185	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	24	1	100	1
9/19/2012	11:49 PM	62.6	62.6	62.6	57	47.1	4	E	0.07	6	E	62.6	61.3	61.3	30.183	0	0	0.002	0	57.4	54	40.9	55.7	10.15	0.0768	23	1	100	1
9/19/2012	11:50 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.183	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:51 PM	62.5	62.6	62.5	57	47.1	4	E	0.07	6	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:52 PM	62.5	62.6	62.5	57	47.1	3	E	0.05	5	E	62.5	61.2	61.2	30.182	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	23	1	100	1
9/19/2012	11:53 PM	62.5	62.5	62.5	57	47.1	2	E	0.03	5	E	62.5	61.2	61.2	30.181	0	0	0.002	0	57.3	54	40.8	55.6	10.15	0.0768	24	1	100	1
9/19/2012	11:54 PM	62.5	62.5	62.5	57	47.1	3	E	0.05	5

Meteorological Data
Equity IRM

9/20/2012	1:14 AM	61.2	61.2	61.2	54	44.4	2	E	0.03	3	E	61.2	59.5	59.5	30.18	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:15 AM	61.2	61.2	61.2	54	44.4	2	E	0.03	5	E	61.2	59.5	59.5	30.18	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:16 AM	61.2	61.2	61.1	54	44.4	2	E	0.03	5	E	61.2	59.5	59.5	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:17 AM	61.1	61.2	61.1	54	44.3	2	E	0.03	6	E	61.1	59.4	59.4	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:18 AM	61.1	61.2	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.179	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	23	1	100	1
9/20/2012	1:19 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	5	E	61.1	59.4	59.4	30.178	0	0	0.003	0	56.1	55	40.1	54.5	10.33	0.077	24	1	100	1
9/20/2012	1:20 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.18	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:21 AM	61.1	61.1	61.1	54	44.3	2	E	0.03	3	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:22 AM	61.1	61.1	61.1	54	44.3	1	E	0.02	2	E	61.1	59.4	59.4	30.181	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:23 AM	61.1	61.1	61.1	55	44.8	1	E	0.02	2	E	61.1	59.5	59.5	30.182	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:24 AM	61.1	61.1	61	55	44.8	1	E	0.02	3	E	61.1	59.5	59.5	30.178	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:25 AM	61	61	61	55	44.7	2	E	0.03	3	E	61	59.4	59.4	30.179	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	23	1	100	1
9/20/2012	1:26 AM	61	61	61	54	44.2	4	E	0.07	6	E	61	59.3	59.3	30.18	0	0	0.003	0	56	55	40.1	54.4	10.33	0.077	24	1	100	1
9/20/2012	1:27 AM	61	61	61	54	44.2	3	ENE	0.05	5	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:28 AM	61	61	61	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:29 AM	61	61	61	54	44.2	1	ENE	0.02	2	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:30 AM	61	61	61	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:31 AM	61	61	61	54	44.2	2	ENE	0.03	4	ENE	61	59.3	59.3	30.182	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	24	1	100	1
9/20/2012	1:32 AM	61	61	61	54	44.2	1	ENE	0.02	3	ENE	61	59.3	59.3	30.18	0	0	0.003	0	55.8	55	39.9	54.2	10.33	0.077	23	1	100	1
9/20/2012	1:33 AM	61	61	61	54	44.2	1	ENE	0.02	3	ENE	61	59.3	59.3	30.181	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:34 AM	61	61	61	54	44.2	2	ENE	0.03	4	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:35 AM	61	61	60.9	54	44.2	2	ENE	0.03	3	ENE	61	59.3	59.3	30.179	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:36 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.178	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:37 AM	60.9	60.9	60.9	55	44.6	2	ENE	0.03	4	ENE	60.9	59.3	59.3	30.18	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	23	1	100	1
9/20/2012	1:38 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.18	0	0	0.003	0	55.7	55	39.8	54.1	10.34	0.077	24	1	100	1
9/20/2012	1:39 AM	60.9	60.9	60.9	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:40 AM	60.9	60.9	60.8	54	44.1	2	ENE	0.03	4	ENE	60.9	59.2	59.2	30.18	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	22	1	95.7	1
9/20/2012	1:41 AM	60.8	60.9	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	24	1	100	1
9/20/2012	1:42 AM	60.8	60.8	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.179	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	22	1	95.7	1
9/20/2012	1:43 AM	60.8	60.8	60.8	55	44.5	2	ENE	0.03	4	ENE	60.8	59.2	59.2	30.18	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:44 AM	60.8	60.9	60.8	54	44	3	ENE	0.05	5	ENE	60.8	59.1	59.1	30.181	0	0	0.003	0	55.5	55	39.6	54	10.34	0.0771	23	1	100	1
9/20/2012	1:45 AM	60.8	60.8	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:46 AM	60.8	60.9	60.8	54	44	2	ENE	0.03	3	ENE	60.8	59.1	59.1	30.18	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:47 AM	60.8	60.9	60.8	55	44.5	3	ENE	0.05	3	ENE	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:48 AM	60.8	60.9	60.8	55	44.5	3	E	0.05	7	E	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:49 AM	60.8	60.8	60.8	55	44.5	2	E	0.03	5	E	60.8	59.2	59.2	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	22	1	95.7	1
9/20/2012	1:50 AM	60.8	60.8	60.8	55	44.5	3	E	0.05	5	E	60.8	59.2	59.2	30.181	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	24	1	100	1
9/20/2012	1:51 AM	60.8	60.8	60.8	55	44.5	1	E	0.02	2	E	60.8	59.2	59.2	30.182	0	0	0.003	0	55.4	55	39.5	53.9	10.34	0.0771	21	1	91.3	1
9/20/2012	1:52 AM	60.8	60.8	60.7	55	44.5	2	E	0.03	3	E	60.8	59.2	59.2	30.184	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	22	1	95.7	1
9/20/2012	1:53 AM	60.7	60.8	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.183	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	24	1	100	1
9/20/2012	1:54 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.182	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:55 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.181	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	24	1	100	1
9/20/2012	1:56 AM	60.7	60.7	60.7	55	44.4	2	E	0.03	3	E	60.7	59.1	59.1	30.182	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:57 AM	60.6	60.7	60.6	55	44.3	3	E	0.05	5	E	60.6	59	59	30.183	0	0	0.003	0	55.2	55	39.3	53.7	10.35	0.0771	23	1	100	1
9/20/2012	1:58 AM	60.5	60.6	60.5	55	44.2	2	E	0.03	3	E	60.5	58.9	58.9	30.182	0	0	0.003	0	55.2	56	39.8	53.7	10.45	0.0771	23	1	100	1
9/20/2012	1:59 AM	60.6	60.6	60.6	56	44.8	2	E	0.03	3	E	60.6	59.1	59.1	30.183	0	0	0.003	0	55.1	55	39.2	53.6	10.35	0.0771	23	1	100	1
9/20/2012	2:00 AM	60.5	60.6	60.5	56	44.7	2	E	0.03	3	E	60.5	59	59	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	24	1	100	1
9/20/2012	2:01 AM	60.5	60.5	60.5	56	44.7	1	E	0.02	2	E	60.5	59	59	30.182	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:02 AM	60.5	60.5	60.5	56	44.7	1	E	0.02	2	E	60.5	59	59	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	24	1	100	1
9/20/2012	2:03 AM	60.4	60.5	60.4	57	45.1	1	E	0.02	2	E	60.4	58.9	58.9	30.183	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:04 AM	60.4	60.4	60.4	56	44.6	2	E	0.03	3	E	60.4	58.9	58.9	30.185	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:05 AM	60.4	60.4	60.4	57	45.1	1	E	0.02	3	E	60.4	58.9	58.9	30.185	0	0	0.003	0	55.1	56	39.7	53.6	10.45	0.0771	23	1	100	1
9/20/2012	2:06 AM	60.3	60.4	60.3	57	45	1	E	0.02	2	E	60.3	58.8	58.8	30.187	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:07 AM	60.3	60.3	60.3	57	45	2	E	0.03	3	E	60.3	58.8	58.8	30.188	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	24	1	100	1
9/20/2012	2:08 AM	60.2	60.3	60.2	57	44.9	2	E	0.03	3	E	60.2	58.7	58.7	30.189	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:09 AM	60.2	60.2	60.2	57	44.9	2	ENE	0.03	3	ENE	60.2	58.7	58.7	30.187	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	23	1	100	1
9/20/2012	2:10 AM	60.2	60.2	60.2	56	44.4	2	ENE	0.03	3	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.9	56	39.5	53.5	10.45	0.0772	24	1	100	1
9/20/2012	2:11 AM	60.2	60.2	60.2	56	44.4	1	ENE	0.02	3	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:12 AM	60.2	60.2	60.2	57	44.9	1	ENE	0.02	2	ENE	60.2	58.7	58.7	30.187	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	24	1	100	1
9/20/2012	2:13 AM	60.2	60.2	60.2	57	44.9	1	ENE	0.02	1	ENE	60.2	58.7	58.7	30.188	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:14 AM	60.1	60.2	60.1	57	44.8	0	ENE	0	1	ENE	60.1	58.6	58.6	30.186	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	23	1	100	1
9/20/2012	2:15 AM	60	60.1	60	57	44.7	1	ENE	0.02	2	ENE	60	58.5	58.5	30.187	0	0	0.003	0	54.8	56	39.4	53.4	10.45	0.0772	24	1	100	1
9/20/2012	2:16 AM	60	60	60	57	44.7	1	ENE	0.02	4	ENE	60	58.5	58.5	30.189	0	0	0.003	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:17 AM	60	60	60	58	45.2	1	ENE	0.02	3	ENE	60	58.6	58.6	30.188	0	0	0.003	0	54.6	56	39.2	53.2	10.44	0.0772	24	1	100	1
9/20/2012	2:18 AM	59.9	60	59.9	58	45.1	0	ENE	0	2	ENE	59.9	58.5	58.5	30.186	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:19 AM	59.9	59.9	59.9	58	45.1	1	ENE	0.02	2	ENE	59.9	58.5	58.5	30.188	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	24	1	100	1
9/20/2012	2:20 AM	59.9	59.9	59.9	58	45.1	1	ENE	0.02	2	ENE	59.9	58.5	58.5	30.186	0	0	0.004	0	54.6	56	39.2	53.2	10.44	0.0772	23	1	100	1
9/20/2012	2:21 AM	59.8	59.9	59.8	58	45	1	ENE	0.02	5	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	22	1	95.7	1
9/20/2012	2:22 AM	59.8	59.8	59.8	58	45	2	ENE	0.03	3	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	24	1	100	1
9/20/2012	2:23 AM	59.7	59.8	59.7	58	44.9	2	ENE	0.03	4	ENE	59.7	58.3	58.3	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:24 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	4	ENE	59.7	58.2	58.2	30.186	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	24	1	100	1
9/20/2012	2:25 AM	59.8	59.8	59.7	57	44.5	3	ENE	0.05	7	ENE	59.8	58.3	58.3	30.185	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:26 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	4	ENE	59.8	58.3	58.3	30.184	0	0	0.004	0	54.5	56	39.1	53.1	10.44	0.0772	23	1	100	1
9/20/2012	2:27 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.186	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:28 AM	59.8	59.9	59.8	58	45	1	ENE	0.02	2	ENE	59.8	58.4	58.4	30.186	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:29 AM	59.8	59.8	59.8	58	45	2	ENE	0.03	4	ENE	59.8	58.4	58.4	30.185	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:30 AM	59.8	59.8	59.8	58	45	3	ENE	0.05	4	ENE	59.8	58.4	58.4	30.184	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:31 AM	59.8	59.8	59.8	57	44.5	3	ENE	0.05	4	ENE	59.8	58.3	58.3	30.185	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	24	1	100	1
9/20/2012	2:32 AM	59.8	59.8	59.8	57	44.5	3	ENE	0.05	4	ENE	59.8	58.3	58.3	30.184	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:33 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.3	56	38.9	52.9	10.44	0.0773	23	1	100	1
9/20/2012	2:34 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:35 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	4	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:36 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	3	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	24	1	100	1
9/20/2012	2:37 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:38 AM	59.8	59.8	59.8	57	44.5	1	ENE	0.02	2	ENE	59.8	58.3	58.3	30.182	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:39 AM	59.8	59.8	59.8	57	44.5	2	ENE	0.03	3	ENE	59.8	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:40 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:41 AM	59.7	59.7	59.7	58	44.9	3	ENE	0.05	4	ENE	59.7	58.3	58.3	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:42 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	3	ENE	59.7	58.2	58.2	30.183	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:43 AM	59.7	59.7	59.7	57	44.4	2	ENE	0.03	3	ENE	59.7	58.2	58.2	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:44 AM	59.7	59.7	59.7	57	44.4	1	ENE	0.02	2	ENE	59.7	58.2	58.2	30.185	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	22	1	95.7	1
9/20/2012	2:45 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.184	0	0	0.004	0	54.2	56	38.8	52.8	10.43	0.0773	23	1	100	1
9/20/2012	2:46 AM	59.7	59.7	59.7	58	44.9	1	ENE	0.02	3	ENE	59.7	58.3	58.3	30.185	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:47 AM	59.7	59.7	59.6	58	44.9	1	ENE	0.02	2	ENE	59.7	58.3	58.3	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:48 AM	59.6	59.7	59.6	58	44.8	1	ENE	0.02	2	ENE	59.6	58.2	58.2	30.184	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:49 AM	59.6	59.6	59.6	58	44.8	1	ENE	0.02	3	ENE	59.6	58.2	58.2	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:50 AM	59.5	59.6	59.5	59	45.2	0	ENE	0	1	ENE	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:51 AM	59.5	59.6	59.5	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:52 AM	59.4	59.5	59.4	60	45.5	0	ENE	0	1	ENE	59.4	58.1	58.1	30.182	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	23	1	100	1
9/20/2012	2:53 AM	59.3	59.4	59.3	60	45.4	1	ENE	0.02	2	ENE	59.3	58	58	30.183	0	0	0.004	0	54	56	38.6	52.6	10.43	0.0773	24	1	100	1
9/20/2012	2:54 AM	59.2	59.3	59.2	60	45.3

Meteorological Data
Equity IRM

9/20/2012	4:14 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	5	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:15 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	5	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:16 AM	58.9	58.9	58.8	62	45.9	2	E	0.03	2	E	58.9	57.7	57.7	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:17 AM	58.8	58.9	58.8	62	45.8	3	E	0.05	6	E	58.8	57.6	57.6	30.181	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:18 AM	58.8	58.9	58.8	62	45.8	2	E	0.03	5	E	58.8	57.6	57.6	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:19 AM	58.9	58.9	58.9	61	45.5	4	E	0.07	8	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	23	1	100	1
9/20/2012	4:20 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.1	57	37.3	51	10.59	0.0776	24	1	100	1
9/20/2012	4:21 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.182	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:22 AM	58.9	58.9	58.9	61	45.5	3	ENE	0.05	5	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	24	1	100	1
9/20/2012	4:23 AM	58.9	58.9	58.9	61	45.5	4	ENE	0.07	7	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:24 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:25 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	4	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:26 AM	58.9	58.9	58.9	61	45.5	1	ENE	0.02	2	ENE	58.9	57.7	57.7	30.181	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:27 AM	58.9	58.9	58.9	61	45.5	2	ENE	0.03	3	ENE	58.9	57.7	57.7	30.183	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:28 AM	58.8	58.9	58.8	61	45.4	3	ENE	0.05	3	ENE	58.8	57.6	57.6	30.184	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:29 AM	58.8	58.9	58.8	62	45.8	3	ENE	0.05	4	ENE	58.8	57.6	57.6	30.186	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:30 AM	58.8	58.8	58.8	62	45.8	2	ENE	0.03	4	ENE	58.8	57.6	57.6	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	22	1	95.7	1
9/20/2012	4:31 AM	58.8	58.8	58.8	62	45.8	1	ENE	0.02	2	ENE	58.8	57.6	57.6	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:32 AM	58.7	58.8	58.7	62	45.7	3	ENE	0.05	4	ENE	58.7	57.5	57.5	30.185	0	0	0.004	0	52.3	57	37.5	51.1	10.6	0.0776	23	1	100	1
9/20/2012	4:33 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	4	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:34 AM	58.7	58.7	58.7	62	45.7	3	ENE	0.05	5	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:35 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	3	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:36 AM	58.7	58.7	58.7	62	45.7	2	ENE	0.03	4	ENE	58.7	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:37 AM	58.6	58.7	58.6	62	45.6	2	ENE	0.03	3	ENE	58.6	57.4	57.4	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:38 AM	58.6	58.6	58.6	62	45.6	3	ENE	0.05	4	ENE	58.6	57.4	57.4	30.185	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:39 AM	58.6	58.6	58.6	62	45.6	1	ENE	0.02	3	ENE	58.6	57.4	57.4	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:40 AM	58.6	58.6	58.6	62	45.6	2	ENE	0.03	3	ENE	58.6	57.4	57.4	30.186	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:41 AM	58.6	58.6	58.6	63	46	2	ENE	0.03	3	ENE	58.6	57.5	57.5	30.184	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:42 AM	58.6	58.6	58.6	63	46	2	ENE	0.03	4	ENE	58.6	57.5	57.5	30.185	0	0	0.004	0	52.4	57	37.6	51.2	10.6	0.0776	22	1	95.7	1
9/20/2012	4:43 AM	58.5	58.6	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:44 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:45 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:46 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	24	1	100	1
9/20/2012	4:47 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:48 AM	58.5	58.5	58.5	63	45.9	3	ENE	0.05	4	ENE	58.5	57.4	57.4	30.184	0	0	0.005	0	52.4	57	37.6	51.2	10.6	0.0776	23	1	100	1
9/20/2012	4:49 AM	58.5	58.5	58.5	63	45.9	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:50 AM	58.5	58.5	58.5	63	45.9	1	ENE	0.02	2	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:51 AM	58.5	58.5	58.5	64	46.4	1	ENE	0.02	2	ENE	58.5	57.4	57.4	30.184	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:52 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:53 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	4	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:54 AM	58.5	58.5	58.5	64	46.4	2	ENE	0.03	3	ENE	58.5	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:55 AM	58.4	58.5	58.4	64	46.3	2	ENE	0.03	4	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:56 AM	58.4	58.4	58.4	64	46.3	2	ENE	0.03	3	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:57 AM	58.4	58.5	58.4	64	46.3	2	ENE	0.03	4	ENE	58.4	57.3	57.3	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	4:58 AM	58.5	58.5	58.4	65	46.8	2	ENE	0.03	4	ENE	58.5	57.5	57.5	30.185	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	4:59 AM	58.4	58.5	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:00 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:01 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.186	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:02 AM	58.4	58.4	58.4	65	46.7	3	ENE	0.05	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:03 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:04 AM	58.4	58.4	58.4	65	46.7	2	ENE	0.03	2	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:05 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:06 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.187	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:07 AM	58.4	58.5	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:08 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:09 AM	58.4	58.5	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:10 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	4	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:11 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:12 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	3	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:13 AM	58.5	58.5	58.4	66	47.2	2	ENE	0.03	3	ENE	58.5	57.6	57.6	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:14 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:15 AM	58.4	58.5	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:16 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:17 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:18 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:19 AM	58.4	58.4	58.4	67	47.5	2	ENE	0.03	2	ENE	58.4	57.5	57.5	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:20 AM	58.4	58.4	58.4	67	47.5	2	ENE	0.03	3	ENE	58.4	57.5	57.5	30.188	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:21 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:22 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:23 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:24 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:25 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:26 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	4	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	22	1	95.7	1
9/20/2012	5:27 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	24	1	100	1
9/20/2012	5:28 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:29 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:30 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:31 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	2	ENE	58.4	57.4	57.4	30.19	0	0	0.005	0	52.4	56	37.2	51.2	10.4	0.0776	23	1	100	1
9/20/2012	5:32 AM	58.4	58.4	58.3	66	47.1	2	ENE	0.03	5	ENE	58.4	57.4	57.4	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:33 AM	58.3	58.3	58.3	66	47	3	ENE	0.05	7	ENE	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:34 AM	58.3	58.4	58.3	66	47	3	E	0.05	6	E	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:35 AM	58.4	58.4	58.3	66	47.1	3	ENE	0.05	5	E	58.4	57.4	57.4	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:36 AM	58.3	58.4	58.3	66	47	3	ENE	0.05	4	ENE	58.3	57.3	57.3	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:37 AM	58.3	58.4	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:38 AM	58.4	58.4	58.3	66	47.1	2	ENE	0.03	4	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:39 AM	58.4	58.4	58.4	66	47.1	3	ENE	0.05	5	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:40 AM	58.4	58.4	58.4	66	47.1	2	ENE	0.03	3	ENE	58.4	57.4	57.4	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:41 AM	58.4	58.4	58.4	66	47.1	1	ENE	0.02	3	ENE	58.4	57.4	57.4	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:42 AM	58.3	58.4	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.187	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:43 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	3	ENE	58.3	57.3	57.3	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:44 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	4	ENE	58.3	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:45 AM	58.2	58.3	58.2	66	46.9	2	ENE	0.03	4	ENE	58.2	57.2	57.2	30.188	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:46 AM	58.3	58.3	58.3	66	47	2	ENE	0.03	2	ENE	58.3	57.3	57.3	30.189	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:47 AM	58.3	58.3	58.2	66	47	3	ENE	0.05	4	ENE	58.3	57.3	57.3	30.19	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:48 AM	58.2	58.2	58.2	66	46.9	2	ENE	0.03	4	ENE	58.2	57.2	57.2	30.191	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:49 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	6	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:50 AM	58.2	58.2	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2	30.193	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	23	1	100	1
9/20/2012	5:51 AM	58.2	58.2	58.2	66	46.9	3	E	0.05	5	E	58.2	57.2	57.2	30.192	0	0	0.005	0	52.3	56	37.1	51.1	10.4	0.0776	24	1	100	1
9/20/2012	5:52 AM	58.2	58.3	58.2	66	46.9	2	E	0.03	3	E	58.2	57.2	57.2

Meteorological Data
Equity IRM

9/20/2012	7:14 AM	59.6	59.6	59.5	70	49.8	4	E	0.07	6	E	59.6	59	59	30.203	0	0	0.004	0	53.1	68	42.8	52.3	12.87	0.0774	23	1	100	1
9/20/2012	7:15 AM	59.6	59.6	59.6	70	49.8	4	E	0.07	7	E	59.6	59	59	30.201	0	0	0.004	0	53.4	67	42.7	52.6	12.69	0.0774	23	1	100	1
9/20/2012	7:16 AM	59.7	59.7	59.6	70	49.9	3	E	0.05	7	E	59.7	59.1	59.1	30.201	0	0	0.004	0	53.7	68	43.4	52.9	12.9	0.0773	24	1	100	1
9/20/2012	7:17 AM	59.7	59.7	59.7	70	49.9	3	E	0.05	7	E	59.7	59.1	59.1	30.202	0	0	0.004	0	54	69	44.1	53.2	13.21	0.0772	23	1	100	1
9/20/2012	7:18 AM	59.7	59.8	59.7	70	49.9	2	E	0.03	3	E	59.7	59.1	59.1	30.199	0	0	0.004	0	54.3	70	44.7	53.6	13.44	0.0772	24	1	100	1
9/20/2012	7:19 AM	59.8	59.8	59.8	70	50	2	E	0.03	3	E	59.8	59.2	59.2	30.199	0	0	0.004	0	54.6	69	44.6	53.8	13.23	0.0771	23	1	100	1
9/20/2012	7:20 AM	59.8	59.8	59.8	70	50	3	E	0.05	6	E	59.8	59.2	59.2	30.198	0	0	0.004	0	54.9	68	44.5	54	12.95	0.0771	23	1	100	1
9/20/2012	7:21 AM	59.9	59.9	59.8	70	50.1	2	E	0.03	6	E	59.9	59.3	59.3	30.198	0	0	0.004	0	55.2	67	44.4	54.3	12.74	0.077	23	1	100	1
9/20/2012	7:22 AM	59.9	59.9	59.9	70	50.1	3	E	0.05	5	E	59.9	59.3	59.3	30.197	0	0	0.004	0	55.5	67	44.7	54.6	12.73	0.077	23	1	100	1
9/20/2012	7:23 AM	59.9	59.9	59.9	70	50.1	2	E	0.03	5	E	59.9	59.3	59.3	30.202	0	0	0.004	0	55.8	69	45.8	55	13.2	0.0769	24	1	100	1
9/20/2012	7:24 AM	60	60	59.9	71	50.6	1	E	0.02	2	E	60	59.4	59.4	30.201	0	0	0.003	0	56.1	69	46.1	55.3	13.18	0.0769	22	1	95.7	1
9/20/2012	7:25 AM	60	60	60	71	50.6	2	E	0.03	3	E	60	59.4	59.4	30.201	0	0	0.003	0	56.4	69	46.4	55.6	13.17	0.0768	24	1	100	1
9/20/2012	7:26 AM	60	60	60	70	50.2	3	E	0.05	5	SE	60	59.4	59.4	30.2	0	0	0.003	0	56.8	69	46.7	56	13.14	0.0767	23	1	100	1
9/20/2012	7:27 AM	60	60	60	70	50.2	3	ESE	0.05	5	ESE	60	59.4	59.4	30.2	0	0	0.003	0	57.1	68	46.6	56.2	12.87	0.0767	23	1	100	1
9/20/2012	7:28 AM	60.1	60.1	60	70	50.3	2	ESE	0.03	4	ESE	60.1	59.5	59.5	30.197	0	0	0.003	0	57.4	68	46.9	56.5	12.85	0.0766	24	1	100	1
9/20/2012	7:29 AM	60.1	60.1	60.1	70	50.3	4	ESE	0.07	7	ESE	60.1	59.5	59.5	30.198	0	0	0.003	0	57.9	67	47	57	12.63	0.0766	23	1	100	1
9/20/2012	7:30 AM	60.1	60.1	60.1	70	50.3	3	ESE	0.05	5	ESE	60.1	59.5	59.5	30.199	0	0	0.003	0	58.2	66	46.9	57.2	12.39	0.0765	24	1	100	1
9/20/2012	7:31 AM	60.2	60.2	60.1	70	50.4	3	ESE	0.05	4	ESE	60.2	59.6	59.6	30.199	0	0	0.003	0	58.5	66	47.2	57.6	12.38	0.0765	23	1	100	1
9/20/2012	7:32 AM	60.2	60.2	60.2	70	50.4	4	E	0.07	9	E	60.2	59.6	59.6	30.199	0	0	0.003	0	58.8	66	47.5	57.9	12.37	0.0764	23	1	100	1
9/20/2012	7:33 AM	60.2	60.2	60.2	70	50.4	3	E	0.05	6	E	60.2	59.6	59.6	30.196	0	0	0.003	0	59.1	65	47.3	58.1	12.09	0.0764	24	1	100	1
9/20/2012	7:34 AM	60.3	60.3	60.2	70	50.5	3	E	0.05	5	E	60.3	59.7	59.7	30.202	0	0	0.003	0	59.3	65	47.5	58.3	12.08	0.0763	23	1	100	1
9/20/2012	7:35 AM	60.3	60.3	60.3	70	50.5	4	ESE	0.07	7	ESE	60.3	59.7	59.7	30.199	0	0	0.003	0	59.6	65	47.8	58.7	12.07	0.0763	24	1	100	1
9/20/2012	7:36 AM	60.3	60.3	60.3	70	50.5	4	ESE	0.07	5	ESE	60.3	59.7	59.7	30.199	0	0	0.003	0	59.9	65	48.1	59	12.05	0.0762	23	1	100	1
9/20/2012	7:37 AM	60.3	60.3	60.3	71	50.9	3	ESE	0.05	4	ESE	60.3	59.7	59.7	30.198	0	0	0.003	0	60.2	64	48	59.2	11.85	0.0762	24	1	100	1
9/20/2012	7:38 AM	60.4	60.4	60.3	71	51	2	ESE	0.03	3	ESE	60.4	59.8	59.8	30.202	0	0	0.003	0	60.3	64	48.1	59.3	11.84	0.0762	22	1	95.7	1
9/20/2012	7:39 AM	60.4	60.4	60.4	71	51	4	ENE	0.07	9	ENE	60.4	59.8	59.8	30.203	0	0	0.003	0	60.7	64	48.4	59.8	11.84	0.0761	23	1	100	1
9/20/2012	7:40 AM	60.4	60.5	60.4	71	51	3	E	0.05	7	E	60.4	59.8	59.8	30.199	0	0	0.003	0	61	63	48.3	60	11.65	0.0761	24	1	100	1
9/20/2012	7:41 AM	60.5	60.5	60.4	71	51	3	E	0.05	5	E	60.5	60	60	30.2	0	0	0.003	0	61.1	63	48.4	60.1	11.65	0.076	23	1	100	1
9/20/2012	7:42 AM	60.5	60.5	60.5	71	51	4	E	0.07	7	E	60.5	60	60	30.2	0	0	0.003	0	61.4	63	48.7	60.5	11.65	0.076	24	1	100	1
9/20/2012	7:43 AM	60.5	60.5	60.5	71	51	4	E	0.07	7	ENE	60.5	60	60	30.201	0	0	0.003	0	61.8	63	49.1	60.9	11.65	0.0759	23	1	100	1
9/20/2012	7:44 AM	60.6	60.6	60.6	71	51.1	5	E	0.08	8	E	60.6	60.1	60.1	30.198	0	0	0.003	0	61.9	63	49.2	61	11.65	0.0759	23	1	100	1
9/20/2012	7:45 AM	60.6	60.6	60.6	70	50.8	6	E	0.1	10	E	60.3	60	59.7	30.2	0	0	0.003	0	62.2	63	49.4	61.3	11.65	0.0759	24	1	100	1
9/20/2012	7:46 AM	60.6	60.6	60.6	70	50.8	4	E	0.07	10	E	60.6	60	60	30.199	0	0	0.003	0	62.5	63	49.7	61.7	11.65	0.0758	22	1	95.7	1
9/20/2012	7:47 AM	60.6	60.6	60.6	71	51.1	3	E	0.05	6	E	60.6	60.1	60.1	30.197	0	0	0.003	0	62.7	62	49.5	61.8	11.45	0.0758	24	1	100	1
9/20/2012	7:48 AM	60.7	60.7	60.6	71	51.2	4	ESE	0.07	7	ESE	60.7	60.2	60.2	30.2	0	0	0.003	0	62.9	62	49.7	62	11.45	0.0757	23	1	100	1
9/20/2012	7:49 AM	60.7	60.7	60.7	71	51.2	2	E	0.03	5	E	60.7	60.2	60.2	30.199	0	0	0.003	0	63.2	62	50	62.3	11.45	0.0757	24	1	100	1
9/20/2012	7:50 AM	60.8	60.8	60.7	71	51.3	4	E	0.07	10	ENE	60.8	60.3	60.3	30.199	0	0	0.003	0	63.3	62	50.1	62.4	11.45	0.0757	23	1	100	1
9/20/2012	7:51 AM	60.8	60.8	60.8	71	51.3	4	E	0.07	7	E	60.8	60.3	60.3	30.198	0	0	0.003	0	63.5	61	49.8	62.6	11.25	0.0756	22	1	95.7	1
9/20/2012	7:52 AM	60.9	60.9	60.8	71	51.4	3	E	0.05	5	E	60.9	60.4	60.4	30.2	0	0	0.003	0	63.6	61	49.9	62.7	11.25	0.0756	24	1	100	1
9/20/2012	7:53 AM	60.9	60.9	60.9	71	51.4	5	E	0.08	9	E	60.9	60.4	60.4	30.197	0	0	0.003	0	64	61	50.3	63.2	11.25	0.0756	22	1	95.7	1
9/20/2012	7:54 AM	60.9	60.9	60.9	71	51.4	5	ENE	0.08	8	ENE	60.9	60.4	60.4	30.2	0	0	0.003	0	64.1	61	50.4	63.3	11.25	0.0755	23	1	100	1
9/20/2012	7:55 AM	61	61	60.9	71	51.5	4	ENE	0.07	8	E	61	60.5	60.5	30.202	0	0	0.003	0	64.3	61	50.6	63.5	11.25	0.0755	23	1	100	1
9/20/2012	7:56 AM	61	61	61	71	51.5	4	E	0.07	7	E	61	60.5	60.5	30.203	0	0	0.003	0	64.6	60	50.4	63.8	11.06	0.0755	22	1	95.7	1
9/20/2012	7:57 AM	61.1	61.1	61.1	71	51.6	5	E	0.08	10	ENE	61.1	60.6	60.6	30.204	0	0	0.003	0	64.8	60	50.6	64	11.05	0.0754	24	1	100	1
9/20/2012	7:58 AM	61.2	61.2	61.1	71	51.7	4	E	0.07	6	E	61.2	60.7	60.7	30.2	0	0	0.003	0	64.9	60	50.7	64.1	11.05	0.0754	22	1	95.7	1
9/20/2012	7:59 AM	61.2	61.2	61.2	70	51.3	3	ESE	0.05	7	ESE	61.2	60.6	60.6	30.199	0	0	0.003	0	65.3	60	51.1	64.5	11.05	0.0753	24	1	100	1
9/20/2012	8:00 AM	61.3	61.3	61.2	70	51.4	3	ESE	0.05	5	ESE	61.3	60.7	60.7	30.202	0	0	0.003	0	65.4	60	51.1	64.6	11.05	0.0753	22	1	95.7	1
9/20/2012	8:01 AM	61.3	61.3	61.2	70	51.4	2	ESE	0.03	5	E	61.3	60.7	60.7	30.198	0	0	0.003	0	65.8	59	51.1	65	10.95	0.0753	24	1	100	1
9/20/2012	8:02 AM	61.3	61.3	61.3	70	51.4	5	E	0.08	7	E	61.3	60.7	60.7	30.201	0	0	0.003	0	65.9	59	51.2	65.1	10.95	0.0753	22	1	95.7	1
9/20/2012	8:03 AM	61.3	61.3	61.3	69	51	4	E	0.07	6	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.2	59	51.4	65.5	10.95	0.0752	22	1	95.7	1
9/20/2012	8:04 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.4	59	51.6	65.7	10.95	0.0752	24	1	100	1
9/20/2012	8:05 AM	61.3	61.3	61.3	69	51	3	E	0.05	5	E	61.3	60.7	60.7	30.199	0	0	0.003	0	66.7	58	51.5	66	10.75	0.0751	22	1	95.7	1
9/20/2012	8:06 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.201	0	0	0.003	0	66.9	58	51.6	66.2	10.75	0.0751	24	1	100	1
9/20/2012	8:07 AM	61.3	61.3	61.3	69	51	2	E	0.03	5	E	61.3	60.7	60.7	30.202	0	0	0.003	0	67.2	58	51.9	66.6	10.75	0.0751	23	1	100	1
9/20/2012	8:08 AM	61.4	61.4	61.3	69	51.1	2	E	0.03	3	E	61.4	60.8	60.8	30.2	0	0	0.002	0	67.4	58	52.1	66.8	10.75	0.075	23	1	100	1
9/20/2012	8:09 AM	61.4	61.4	61.4	68	50.7	2	E	0.03	3	E	61.4	60.8	60.8	30.2	0	0	0.002	0	67.7	57	51.9	67.1	10.6	0.075	24	1	100	1
9/20/2012	8:10 AM	61.5	61.5	61.4	68	50.8	2	E	0.03	3	E	61.5	60.9	60.9	30.2	0	0	0.002	0	67.9	57	52.1	67.3	10.59	0.0749	23	1	100	1
9/20/2012	8:11 AM	61.4	61.4	61.4	68	50.7	1	E	0.02	3	E	61.4	60.8	60.8	30.199	0	0	0.002	0	68.2	57	52.4	67.6	10.59	0.0749	24	1	100	1
9/20/2012	8:12 AM	61.4	61.4	61.4	68	50.7	3	E	0.05	5	E	61.4	60.8	60.8	30.199	0	0	0.002	0	68.4	57	52.6	67.7	10.58	0.0748	23	1	100	1
9/20/2012	8:13 AM	61.4	61.4	61.4	66	49.9	3	E	0.05	5	E	61.4	60.7	60.7	30.196	0	0	0.002	0	68.7	56	52.4	67.8	10.38	0.0748	24	1	100	1
9/20/2012	8:14 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	5	E	61.3	60.6	60.6	30.197	0	0	0.003	0	68.9	56	52.6	68	10.37	0.0748	23	1	100	1
9/20/2012	8:15 AM	61.2	61.3	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.196	0	0	0.003	0	69.2	55	52.3	68.1	10.17	0.0747	23	1	100	1
9/20/2012	8:16 AM	61.2	61.2	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.198	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0747	24	1	100	1
9/20/2012	8:17 AM	61.2	61.2	61.2	66	49.7	1	E	0.02	3	E	61.2	60.5	60.5	30.198	0	0	0.003	0	69.6	55	52.7	68.4	10.16	0.0747	23	1	100	1
9/20/2012	8:18 AM	61.2	61.2	61.2	66	49.7	2	E	0.03	3	E	61.2	60.5	60.5	30.2	0	0	0.003	0	69.9	55	53	68.6	10.15	0.0746	24	1	100	1
9/20/2012	8:19 AM	61.2	61.2	61.2	66	49.7	1	E	0.02	3	E	61.2	60.5	60.5	30.201	0	0	0.003	0	70.2	55	53.3	69	10.15	0.0746	23	1	100	1
9/20/2012	8:20 AM	61.3	61.3	61.2	66	49.8	1	E	0.02	2	E	61.3	60.6	60.6	30.201	0	0	0.003	0	70.4	55	53.5	69.2	10.14	0.0745	23	1	100	1
9/20/2012	8:21 AM	61.4	61.4	61.3	66	49.9	3	E	0.05	5	E	61.4	60.7	60.7	30.202	0	0	0.002	0	70.7	54	53.2	69.5	9.94	0.0745	24	1	100	1
9/20/2012	8:22 AM	61.4	61.4	61.4	66	49.9	4	E	0.07	6	E	61.4	60.7	60.7	30.201	0	0	0.002	0	70.9	55	53.9	69.9	10.13	0.0745	23	1	100	1
9/20/2012	8:23 AM	61.4	61.4	61.4	65	49.5	3	E	0.05	5	E	61.4	60.6	60.6	30.203	0	0	0.002	0	71.1	54	53.6	70.1	9.93	0.0744	24	1	100	1
9/20/2012	8:24 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	3	E	61.3	60.6	60.6	30.203	0	0	0.003	0	71.4	54	53.9	70.5	9.92	0.0744	23	1	100	1
9/20/2012	8:25 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	3	E	61.3	60.6	60.6	30.202	0	0	0.003	0	71.6	54	54.1	70.8	9.92	0.0743	23	1	100	1
9/20/2012	8:26 AM	61.3	61.3	61.3	66	49.8	2	E	0.03	5	E	61.3	60.6	60.6	30.203	0	0	0.003	0	71.8	54	54.3	71.1	9.91	0.0743	24	1	100	1
9/20/2012	8:27 AM	61.3	61.3	61.3	66	49.8	3	E	0.05	5	E	61.3	60.6	60.6	30.202	0	0	0.003	0	71.9	53	53.8	71.2	9.77	0.0743	23	1	100	1
9/20/2012	8:28 AM	61.3	61.3	61.3	66	49.8	4	E	0.07	7	E	61.3	60.6	60.6	30.204	0	0	0.003	0	72.1	52	53.5	71.4	9.61	0.0743	24	1	100	1
9/20/2012	8:29 AM	61.3	61.3	61.3	67	50.2	3	E	0.05	6	E	61.3	60.6	60.6	30.204	0	0	0.003	0	72.3	52	53.7	71.7	9.6	0.0743	23	1	100	1
9/20/2012	8:30 AM	61.3	61.3	61.3	67	50.2	2	E	0.03	3	E	61.3	60.6	60.6	30.205	0	0	0.003	0	72.4	51	53.2	71.7	9.4	0.0743	24	1	100	1
9/20/2012	8:31 AM	61.4	61.4	61.3	68	50.7	2	E	0.03	4	ENE	61.4	60.8	60.8	30.206	0	0	0.002	0	72.4	52	53.8	71.8	9.6	0.0743	23	1	100	1
9/20/2012	8:32 AM	61.5	61.5	61.4	68	50.8	1	ENE	0.02	2	ENE	61.5	60.9	60.9	30.204	0	0	0.002	0	72.6	51	53.4	72	9.4	0.0742	23	1	100	1
9/20/2012	8:33 AM	61.6	61.6	61.5	68	50.9	3	ENE	0.05	7	E	61.6	61	61	30.205	0	0	0.002	0	72.8	51	53.6	72.3	9.39	0.0742	24	1	100	1
9/20/2012	8:34 AM	61.6	61.6	61.6	67	50.5	4	E	0.07	7	ENE	61.6	60.9	60.9	30.205	0	0	0.002	0	73	52	54.3	72.7	9.59	0.0742	23	1	100	1
9/20/2012	8:35 AM	61.5	61.5	61.5	67	50.4	4	E	0.07	6	E	61.5	60.8	60.8	30.207	0	0	0.002	0	73	52	54.3	72.7	9.59	0.0742	24	1	100	1
9/20/2012	8:36 AM	61.4	61.5	61.4	68	50.7	2	E	0.03	5	E	61.4	60.8	60.8	30.207	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:37 AM	61.4	61.4	61.4	68	50.7	3	E	0.05	6	E	61.4	60.8	60.8	30.207	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:38 AM	61.3	61.4	61.3	68	50.6	2	E	0.03	5	E	61.3	60.6	60.6	30.209	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:39 AM	61.3	61.3	61.3	68	50.6	2	E	0.03	3	E	61.3	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:40 AM	61.3	61.3	61.3	68	50.6	3	E	0.05	5	E	61.3	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:41 AM	61.4	61.4	61.3	68	50.7	3	E	0.05	5	E	61.4	60.8	60.8	30.206	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:42 AM	61.4	61.4	61.4	68	50.7	4	E	0.07	7	ESE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.1	51	53.9	72.7	9.39	0.0742	24	1	100	1
9/20/2012	8:43 AM	61.4	61.4	61.4	68	50.7	4	E	0.07	8	ENE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.3	50	53.5	72.9	9.25	0.0741	23	1	100	1
9/20/2012	8:44 AM	61.4	61.4	61.4	68	50.7	4	ENE	0.07	5	ENE	61.4	60.8	60.8	30.205	0	0	0.002	0	73.3	51	54.1	73	9.38	0.0741	23	1	100	1
9/20/2012	8:45 AM	61.3	61.4	61.3	69	51	3	E	0.05	5	E	61.3	60.7	60.7	30.204	0	0	0.003	0	73.3	50	53.5	72.9	9.25	0.0741	24	1	100	1
9/20/2012	8:46 AM	61.3	61.4	61.3	69	51	1	E	0.02	3	E	61.3	60.7	60.7	30.202	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	21	1	91.3	1
9/20/2012	8:47 AM	61.3	61.3	61.3	69	51	3	E	0.05	6	E	61.3	60.7	60.7	30.203	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	24	1	100	1
9/20/2012	8:48 AM	61.3	61.3	61.3	69	51	3	E	0.05	3	E	61.3	60.7	60.7	30.205	0	0	0.003	0	73.3	51	54.1	73	9.38	0.0741	22	1	95.7	1
9/20/2012	8:49 AM	61.2	61.3	61.2	69	50.9	2	E	0.03	3	E	61.2	60.6	60.6	30.203	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0741	23	1	100	1
9/20/2012	8:50 AM	61.3	61.3	61.3	69	51	4	E	0.07	5	E	61.3	60.7	60.7	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:51 AM	61.2	61.3	61.2	69	50.9	5	ENE	0.08	7	ENE	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	51	53.9	72.7	9.39	0.0742	23	1	100	1
9/20/2012	8:52 AM	61.2	61.3	61.2	69	50.9	4	ENE	0.07	5	E	61.2	60.6	60.6	30.206	0	0	0.003	0	73.1	50	53.4	72.6	9.25	0.0742	23	1	100	1
9/20/2012	8:53 AM	61.2	61.2	61.2	69	50.9	3	ENE	0.05	7	ENE	61.2	60.6	60.6	30.204	0	0	0.003	0	73	51	53.8	72.6	9.39	0.0742	23	1	100	1
9/20/2012	8:54 AM	61.1	61.2	61.1	69	50.8	4	ENE	0.07	7	ENE	61.1	60.5	60.5	30.205	0	0	0.003	0	73	52	54.3	72.7	9.59	0.0742	23	1

Meteorological Data
Equity IRM

9/20/2012	10:14 AM	64	64	64	72	54.8	3	E	0.05	6	E	64	63.9	63.9	30.204	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:15 AM	64	64.1	64	72	54.8	4	E	0.07	6	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:16 AM	64	64.1	64	72	54.8	4	E	0.07	5	E	64	63.9	63.9	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	10:17 AM	64	64	64	72	54.8	3	E	0.05	5	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:18 AM	64	64	64	72	54.8	4	E	0.07	7	E	64	63.9	63.9	30.206	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	23	1	100	1
9/20/2012	10:19 AM	64	64	64	72	54.8	3	E	0.05	7	E	64	63.9	63.9	30.205	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0737	24	1	100	1
9/20/2012	10:20 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	E	63.9	63.8	63.8	30.203	0	0	0.001	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	10:21 AM	63.9	64	63.9	72	54.7	4	E	0.07	7	ENE	63.9	63.8	63.8	30.204	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	24	1	100	1
9/20/2012	10:22 AM	63.9	63.9	63.9	72	54.7	3	ENE	0.05	5	ENE	63.9	63.8	63.8	30.202	0	0	0.001	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:23 AM	63.9	63.9	63.9	73	55.1	5	ENE	0.08	7	E	63.9	63.9	63.9	30.202	0	0	0.001	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:24 AM	64	64	63.9	73	55.2	5	ENE	0.08	7	ENE	64	64	64	30.203	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:25 AM	64.1	64.1	64	73	55.3	4	ENE	0.07	5	ENE	64.1	64.1	64.1	30.202	0	0	0.001	0	75.7	51	56.3	75.8	9.35	0.0737	22	1	95.7	1
9/20/2012	10:26 AM	64.3	64.3	64.1	73	55.5	4	E	0.07	8	E	64.3	64.3	64.3	30.2	0	0	0	0	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	10:27 AM	64.4	64.4	64.3	72	55.2	6	E	0.1	9	E	64.4	64.4	64.4	30.202	0	0	0	0	75.6	51	56.2	75.7	9.35	0.0737	23	1	100	1
9/20/2012	10:28 AM	64.4	64.4	64.4	71	54.8	3	E	0.05	5	E	64.4	64.3	64.3	30.202	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:29 AM	64.5	64.5	64.5	72	55.3	4	E	0.07	6	E	64.5	64.5	64.5	30.199	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	23	1	100	1
9/20/2012	10:30 AM	64.7	64.7	64.6	71	55.1	4	E	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	22	1	95.7	1
9/20/2012	10:31 AM	64.7	64.7	64.7	71	55.1	4	E	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	10:32 AM	64.7	64.7	64.7	71	55.1	4	ENE	0.07	7	ENE	64.7	64.7	64.7	30.201	0	0	0	0	75.9	51	56.5	76	9.35	0.0737	22	1	95.7	1
9/20/2012	10:33 AM	64.7	64.7	64.7	72	55.5	3	ENE	0.05	4	ENE	64.7	64.8	64.8	30.202	0	0	0	0	75.9	51	56.5	76	9.35	0.0737	24	1	100	1
9/20/2012	10:34 AM	64.9	64.9	64.8	72	55.7	3	ENE	0.05	7	E	64.9	65	65	30.201	0	0	0	0	76.1	51	56.7	76.1	9.35	0.0736	22	1	95.7	1
9/20/2012	10:35 AM	65	65	64.9	71	55.4	3	E	0.05	6	E	65	65.1	65.1	30.202	0	0	0	0	76.1	51	56.7	76.1	9.35	0.0736	23	1	100	1
9/20/2012	10:36 AM	65	65	65	71	55.4	3	NE	0.05	5	NE	65	65.1	65.1	30.199	0	0	0	0	76.3	51	56.8	76.3	9.35	0.0736	23	1	100	1
9/20/2012	10:37 AM	65	65	65	71	55.4	4	ENE	0.07	7	E	65	65.1	65.1	30.198	0	0	0	0	76.4	51	56.9	76.4	9.35	0.0736	23	1	100	1
9/20/2012	10:38 AM	65	65.1	65	71	55.4	5	ENE	0.08	9	E	65	65.1	65.1	30.202	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0736	23	1	100	1
9/20/2012	10:39 AM	65.1	65.1	65	71	55.5	4	ENE	0.07	7	ENE	65.1	65.2	65.2	30.198	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	22	1	95.7	1
9/20/2012	10:40 AM	65.1	65.1	65.1	71	55.5	4	E	0.07	6	E	65.1	65.2	65.2	30.198	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	24	1	100	1
9/20/2012	10:41 AM	65.1	65.1	65.1	71	55.5	5	E	0.08	7	E	65.1	65.2	65.2	30.199	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	22	1	95.7	1
9/20/2012	10:42 AM	65.1	65.1	65.1	71	55.5	5	E	0.08	8	E	65.1	65.2	65.2	30.198	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	10:43 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	6	E	65.1	65.1	65.1	30.199	0	0	0	0	77.3	49	56.6	77.1	9	0.0735	22	1	95.7	1
9/20/2012	10:44 AM	65.2	65.2	65.1	70	55.2	2	E	0.03	5	E	65.2	65.2	65.2	30.195	0	0	0	0	77.3	49	56.6	77.1	9	0.0734	23	1	100	1
9/20/2012	10:45 AM	65.1	65.2	65.1	70	55.1	2	E	0.03	6	E	65.1	65.1	65.1	30.195	0	0	0	0	77.3	49	56.6	77.1	9	0.0734	24	1	100	1
9/20/2012	10:46 AM	65.1	65.1	65.1	71	55.5	1	E	0.02	2	E	65.1	65.2	65.2	30.195	0	0	0	0	77.3	50	57.2	77.2	9.2	0.0734	23	1	100	1
9/20/2012	10:47 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	5	E	65.1	65.1	65.1	30.195	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	10:48 AM	65.1	65.1	65.1	70	55.1	3	E	0.05	5	E	65.1	65.1	65.1	30.197	0	0	0	0	77.2	50	57.1	77	9.21	0.0734	24	1	100	1
9/20/2012	10:49 AM	65	65.1	65	70	55	2	E	0.03	5	E	65	65	65	30.197	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	23	1	100	1
9/20/2012	10:50 AM	65	65	65	71	55.4	2	E	0.03	3	E	65	65.1	65.1	30.197	0	0	0	0	77	50	56.9	76.8	9.21	0.0735	24	1	100	1
9/20/2012	10:51 AM	65	65	65	71	55.4	3	E	0.05	6	E	65	65.1	65.1	30.196	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	10:52 AM	65	65	65	71	55.4	2	E	0.03	7	ENE	65	65.1	65.1	30.197	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	10:53 AM	65	65	65	71	55.4	1	ENE	0.02	3	ENE	65	65.1	65.1	30.196	0	0	0	0	76.4	50	56.4	76.3	9.22	0.0736	23	1	100	1
9/20/2012	10:54 AM	65	65	65	71	55.4	2	ENE	0.03	3	ENE	65	65.1	65.1	30.194	0	0	0	0	76.3	50	56.3	76.2	9.22	0.0736	23	1	100	1
9/20/2012	10:55 AM	65.1	65.1	65	72	55.8	2	ENE	0.03	3	ENE	65.1	65.2	65.2	30.197	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	10:56 AM	65.2	65.2	65.1	71	55.6	4	ESE	0.07	6	SE	65.2	65.3	65.3	30.196	0	0	0	0	75.9	50	55.9	75.9	9.23	0.0737	23	1	100	1
9/20/2012	10:57 AM	65.3	65.3	65.2	71	55.7	2	ESE	0.03	4	SE	65.3	65.4	65.4	30.195	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	24	1	100	1
9/20/2012	10:58 AM	65.5	65.5	65.3	71	55.8	2	ESE	0.03	4	ESE	65.5	65.7	65.7	30.195	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	10:59 AM	65.8	65.8	65.6	72	56.5	0	ESE	0	2	ESE	65.8	66.1	66.1	30.192	0	0	0	0.001	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	11:00 AM	66.1	66.1	65.8	70	56	1	ESE	0.02	3	ESE	66.1	66.3	66.3	30.189	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0737	24	1	100	1
9/20/2012	11:01 AM	66.3	66.3	66.1	70	56.2	2	ESE	0.03	3	ESE	66.3	66.6	66.6	30.191	0	0	0	0.001	75.9	51	56.5	76	9.35	0.0736	23	1	100	1
9/20/2012	11:02 AM	66.4	66.4	66.3	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.192	0	0	0	0.001	76.1	50	56.1	76.1	9.23	0.0736	24	1	100	1
9/20/2012	11:03 AM	66.4	66.4	66.4	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.193	0	0	0	0.001	76.3	50	56.3	76.2	9.22	0.0736	23	1	100	1
9/20/2012	11:04 AM	66.4	66.4	66.4	69	55.9	3	ESE	0.05	5	ESE	66.4	66.6	66.6	30.191	0	0	0	0.001	76.3	50	56.3	76.2	9.22	0.0736	22	1	95.7	1
9/20/2012	11:05 AM	66.5	66.5	66.4	69	56	2	ESE	0.03	4	ESE	66.5	66.7	66.7	30.192	0	0	0	0.001	76.4	50	56.4	76.3	9.22	0.0736	24	1	100	1
9/20/2012	11:06 AM	66.5	66.5	66.5	69	56	1	ESE	0.02	3	ESE	66.5	66.7	66.7	30.195	0	0	0	0.001	76.4	50	56.4	76.3	9.22	0.0736	23	1	100	1
9/20/2012	11:07 AM	66.5	66.5	66.5	68	55.6	2	ESE	0.03	4	ESE	66.5	66.6	66.6	30.191	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:08 AM	66.5	66.6	66.5	68	55.6	2	ESE	0.03	4	ESE	66.5	66.6	66.6	30.189	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:09 AM	66.6	66.6	66.6	68	55.7	2	ESE	0.03	3	ESE	66.6	66.8	66.8	30.188	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:10 AM	66.6	66.7	66.6	68	55.7	2	ESE	0.03	4	ESE	66.6	66.8	66.8	30.187	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:11 AM	66.7	66.7	66.7	68	55.8	3	ESE	0.05	5	ESE	66.7	66.9	66.9	30.188	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:12 AM	66.7	66.8	66.7	67	56.3	1	E	0.02	3	E	66.7	66.9	66.9	30.187	0	0	0	0.001	76.6	50	56.6	76.5	9.22	0.0735	24	1	100	1
9/20/2012	11:13 AM	66.7	66.7	66.7	68	55.8	2	ESE	0.03	3	ESE	66.7	66.9	66.9	30.186	0	0	0	0.001	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:14 AM	66.8	66.8	66.8	68	55.9	2	ESE	0.03	4	ESE	66.8	67	67	30.184	0	0	0	0.001	77	50	56.9	76.8	9.21	0.0734	24	1	100	1
9/20/2012	11:15 AM	66.9	66.9	66.8	68	56	4	E	0.07	7	E	66.9	67.1	67.1	30.185	0	0	0	0.001	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	11:16 AM	66.9	66.9	66.9	68	56	4	E	0.07	6	E	66.9	67.1	67.1	30.186	0	0	0	0.001	77.3	50	57.2	77.2	9.2	0.0734	23	1	100	1
9/20/2012	11:17 AM	66.9	66.9	66.8	68	56	4	E	0.07	7	E	66.9	67.1	67.1	30.185	0	0	0	0.001	77.5	50	57.4	77.4	9.2	0.0734	24	1	100	1
9/20/2012	11:18 AM	66.8	66.8	66.8	69	56.3	3	E	0.05	7	E	66.8	67.1	67.1	30.184	0	0	0	0.001	77.7	50	57.6	77.6	9.2	0.0733	23	1	100	1
9/20/2012	11:19 AM	66.7	66.8	66.7	69	56.2	3	ENE	0.05	7	ENE	66.7	67	67	30.18	0	0	0	0.001	77.9	50	57.8	77.9	9.19	0.0733	24	1	100	1
9/20/2012	11:20 AM	66.7	66.7	66.6	69	56.2	3	ENE	0.05	5	ENE	66.7	67	67	30.184	0	0	0	0.001	77.9	50	57.8	77.9	9.19	0.0733	23	1	100	1
9/20/2012	11:21 AM	66.8	66.8	66.7	69	56.3	4	E	0.07	5	E	66.8	67.1	67.1	30.182	0	0	0	0.001	78	50	57.9	78	9.19	0.0733	24	1	100	1
9/20/2012	11:22 AM	66.7	66.7	66.7	68	55.8	5	E	0.08	7	E	66.7	66.9	66.9	30.185	0	0	0	0.001	78	50	57.9	78	9.19	0.0733	22	1	95.7	1
9/20/2012	11:23 AM	66.5	66.6	66.5	69	56	2	E	0.03	3	E	66.5	66.7	66.7	30.183	0	0	0	0.001	78	49	57.3	77.9	8.99	0.0733	23	1	100	1
9/20/2012	11:24 AM	66.4	66.5	66.4	69	55.9	2	E	0.03	5	E	66.4	66.6	66.6	30.182	0	0	0	0.001	78	49	57.3	77.9	8.99	0.0733	23	1	100	1
9/20/2012	11:25 AM	66.3	66.4	66.3	69	55.8	3	E	0.05	5	E	66.3	66.5	66.5	30.183	0	0	0	0.001	77.9	49	57.2	77.8	8.99	0.0733	23	1	100	1
9/20/2012	11:26 AM	66.2	66.3	66.2	69	55.7	2	E	0.03	6	E	66.2	66.4	66.4	30.18	0	0	0	0.001	77.7	49	57	77.6	9	0.0733	23	1	100	1
9/20/2012	11:27 AM	66	66.1	66	69	55.5	5	E	0.08	6	E	66	66.1	66.1	30.178	0	0	0	0.001	77.5	50	57.4	77.4	9.2	0.0733	23	1	100	1
9/20/2012	11:28 AM	65.9	66	65.9	70	55.8	3	E	0.05	6	E	65.9	66.1	66.1	30.18	0	0	0	0.001	77.3	49	56.6	77.1	9	0.0734	22	1	95.7	1
9/20/2012	11:29 AM	65.8	65.8	65.8	70	55.7	2	E	0.03	5	E	65.8	66	66	30.18	0	0	0	0.001	77.2	50	57.1	77	9.21	0.0734	24	1	100	1
9/20/2012	11:30 AM	65.7	65.7	65.7	70	55.6	1	E	0.02	3	E	65.7	65.8	65.8	30.179	0	0	0	0	77	50	56.9	76.8	9.21	0.0734	22	1	95.7	1
9/20/2012	11:31 AM	65.6	65.7	65.6	70	55.5	1	E	0.02	3	E	65.6	65.7	65.7	30.175	0	0	0	0	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:32 AM	65.7	65.7	65.6	70	55.6	2	E	0.03	5	E	65.7	65.8	65.8	30.179	0	0	0	0	76.6	50	56.6	76.5	9.22	0.0735	23	1	100	1
9/20/2012	11:33 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	3	E	65.7	65.8	65.8	30.177	0	0	0	0	76.3	50	56.3	76.2	9.22	0.0735	23	1	100	1
9/20/2012	11:34 AM	65.7	65.7	65.7	70	55.6	3	E	0.05	5	E	65.7	65.8	65.8	30.179	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	11:35 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	5	E	65.7	65.8	65.8	30.181	0	0	0	0	76.1	50	56.1	76.1	9.23	0.0736	23	1	100	1
9/20/2012	11:36 AM	65.7	65.7	65.7	70	55.6	2	E	0.03	6	E	65.7	65.8	65.8	30.178	0	0	0	0	75.9	50	55.9	75.9	9.23	0.0736	24	1	100	1
9/20/2012	11:37 AM	65.7	65.7	65.7	70	55.6	3	E	0.05	6	E	65.7	65.8	65.8	30.176	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	23	1	100	1
9/20/2012	11:38 AM	65.7	65.7	65.7	71	56	1	E	0.02	3	E	65.7	65.9	65.9	30.178	0	0	0	0	75.7	50	55.7	75.7	9.24	0.0737	24	1	100	1
9/20/2012	11:39 AM	65.8	65.8	65.8	70	55.7	2	E	0.03	3	E	65.8	66	66	30.179	0	0	0	0.001	75.6	50	55.6	75.6	9.24	0.0737	23	1	100	1
9/20/2012	11:40 AM	65.9	65.9	65.8	70	55.8	1	E	0.02	2	E	65.9	66.1	66.1	30.176	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	22	1	95.7	1
9/20/2012	11:41 AM	66.1	66.1	65.9	70	56	3	E	0.05	5	E	66.1	66.3	66.3	30.176	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	24	1	100	1
9/20/2012	11:42 AM	66.2	66.2	66.1	69	55.7	3	ESE	0.05	4	ESE	66.2	66.4	66.4	30.18	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	23	1	100	1
9/20/2012	11:43 AM	66.3	66.3	66.2	69	55.8	2	ESE	0.03	3	ESE	66.3	66.5	66.5	30.179	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	24	1	100	1
9/20/2012	11:44 AM	66.4	66.4	66.3	69	55.9	1	ESE	0.02	1	ESE	66.4	66.6	66.6	30.18	0	0	0	0.001	75.4	51	56	75.5	9.35	0.0737	23	1	100	1
9/20/2012	11:45 AM	66.6	66.6	66.5	70	56.5	0	ESE	0	2	ESE	66.6	66.9	66.9	30.178	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0737	24	1	100	1
9/20/2012	11:46 AM	66.8	66.8	66.6	69	56.3	1	ESE	0.02	2	ESE	66.8	67.1	67.1	30.175	0	0	0	0.001	75.6	51	56.2	75.7	9.35	0.0736	23	1	100	1
9/20/2012	11:47 AM	67	67	66.8	69	56.5	0	ESE	0	1	ESE	67	67.3	67.3	30.176	0	0	0	0.001	75.7	51	56.3	75.8	9.35	0.0736	23	1	100	1
9/20/2012	11:48 AM	67.3	67.3	67.1	69	56.8	0	ESE	0	1	ESE	67.3	67.7	67.7	30.176	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0736	24	1	100	1
9/20/2012	11:49 AM	67.6	67.6	67.4	67	56.2	2	ESE	0.03	4	ESE	67.6	67.9	67.9	30.178	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0736	23	1	100	1
9/20/2012	11:50 AM	67.9	67.9	67.7	67	56.5	2	ESE	0.03	3	ESE	67.9	68.2	68.2	30.176	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0735	24	1	100	1
9/20/2012	11:51 AM	68.1	68.1	67.9	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.176	0	0	0	0.002	76.6	51	57.1	76.6	9.35	0.0735	23	1	100	1
9/20/2012	11:52 AM	68.3	68.3	68.1	66	56.5	1	ESE	0.02	2	ESE	68.3	68.5	68.5	30.174	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0735	23	1	100	1
9/20/2012	11:53 AM	68.3	68.3	68.3	66	56.5	3	ESE	0.05	4	ESE	68.3	68.5	68.5	30.176	0	0	0	0.002	77	51	57.5	76.9	9.35	0.0734	24	1	100	1
9/20/2012	11:54 AM	68.4	68.4	68.4	66	56.6	4	E	0.07	7	E	68.4	68.6	68.6	30.177	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0734	23	1	100	1
9/20/2012	11:55 AM	68.4	68.4	68.4	66	56.6	2	ENE	0.03	4	ENE	68.4	68.6	68.6	30.173	0	0

Meteorological Data
Equity IRM

9/20/2012	1:14 PM	67.9	67.9	67.8	68	56.9	3	SE	0.05	7	SE	67.9	68.3	68.3	30.147	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0735	22	1	95.7	1
9/20/2012	1:15 PM	68	68	67.9	68	57	4	ESE	0.07	7	ESE	68	68.4	68.4	30.147	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	1:16 PM	68	68	68	67	56.6	2	ESE	0.03	5	ESE	68	68.4	68.4	30.146	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	1:17 PM	68.1	68.1	68	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.145	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	24	1	100	1
9/20/2012	1:18 PM	68.1	68.1	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.146	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:19 PM	68.2	68.2	68.1	67	56.8	3	ESE	0.05	5	ESE	68.2	68.5	68.5	30.147	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	24	1	100	1
9/20/2012	1:20 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	23	1	100	1
9/20/2012	1:21 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	4	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.1	57	59.8	76.6	10.31	0.0733	23	1	100	1
9/20/2012	1:22 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	5	ESE	68.2	68.5	68.5	30.145	0	0	0	0.002	76.3	59	60.9	76.9	10.7	0.0733	24	1	100	1
9/20/2012	1:23 PM	68.1	68.2	68.1	67	56.7	2	ESE	0.03	4	ESE	68.1	68.4	68.4	30.147	0	0	0	0.002	76.3	57	59.9	76.8	10.3	0.0733	23	1	100	1
9/20/2012	1:24 PM	68.1	68.2	68.1	68	57.1	0	ESE	0	2	ESE	68.1	68.5	68.5	30.144	0	0	0	0.002	76.4	57	60	76.9	10.29	0.0733	24	1	100	1
9/20/2012	1:25 PM	68.2	68.2	68.1	67	56.8	2	ESE	0.03	3	ESE	68.2	68.5	68.5	30.143	0	0	0	0.002	76.4	62	62.4	77.3	11.22	0.0732	23	1	100	1
9/20/2012	1:26 PM	68.1	68.2	68.1	68	57.1	2	ESE	0.03	2	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.4	62	62.4	77.3	11.22	0.0732	23	1	100	1
9/20/2012	1:27 PM	68.2	68.2	68.1	68	57.2	2	ESE	0.03	4	ESE	68.2	68.6	68.6	30.143	0	0	0	0.002	76.4	59	61	77.1	10.69	0.0732	24	1	100	1
9/20/2012	1:28 PM	68.2	68.2	68.2	67	56.8	3	ESE	0.05	4	ESE	68.2	68.5	68.5	30.143	0	0	0	0.002	76.4	58	60.5	77	10.49	0.0733	23	1	100	1
9/20/2012	1:29 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	3	ESE	68.2	68.5	68.5	30.141	0	0	0	0.002	76.6	55	59.2	76.9	9.99	0.0733	24	1	100	1
9/20/2012	1:30 PM	68.2	68.2	68.2	67	56.8	2	ESE	0.03	5	ESE	68.2	68.5	68.5	30.14	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	23	1	100	1
9/20/2012	1:31 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	7	ESE	68.1	68.5	68.5	30.138	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	24	1	100	1
9/20/2012	1:32 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	2	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.6	58	60.7	77.2	10.49	0.0732	23	1	100	1
9/20/2012	1:33 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.6	56	59.7	77	10.19	0.0733	23	1	100	1
9/20/2012	1:34 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.142	0	0	0	0.002	76.6	53	58.2	76.7	9.65	0.0733	24	1	100	1
9/20/2012	1:35 PM	68.1	68.2	68.1	68	57.1	3	ESE	0.05	5	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.6	52	57.7	76.6	9.52	0.0734	22	1	95.7	1
9/20/2012	1:36 PM	68.1	68.1	68.1	67	56.7	2	ESE	0.03	3	ESE	68.1	68.4	68.4	30.141	0	0	0	0.002	76.4	52	57.5	76.5	9.52	0.0734	23	1	100	1
9/20/2012	1:37 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	23	1	100	1
9/20/2012	1:38 PM	68.1	68.2	68.1	68	57.1	1	ESE	0.02	3	ESE	68.1	68.5	68.5	30.141	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	23	1	100	1
9/20/2012	1:39 PM	68.1	68.1	68.1	67	56.7	3	ESE	0.05	4	ESE	68.1	68.4	68.4	30.143	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	24	1	100	1
9/20/2012	1:40 PM	68.1	68.1	68.1	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.14	0	0	0	0.002	76.1	52	57.2	76.2	9.53	0.0734	23	1	100	1
9/20/2012	1:41 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	2	ESE	68.1	68.5	68.5	30.139	0	0	0	0.002	76.1	52	57.2	76.2	9.53	0.0734	24	1	100	1
9/20/2012	1:42 PM	68	68.1	68	68	57	1	ESE	0.02	3	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75.9	53	57.5	76.1	9.65	0.0735	23	1	100	1
9/20/2012	1:43 PM	68	68.1	68	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	22	1	95.7	1
9/20/2012	1:44 PM	68	68	68	68	57	2	ESE	0.03	3	ESE	68	68.4	68.4	30.135	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	24	1	100	1
9/20/2012	1:45 PM	67.9	68	67.9	68	56.9	2	ESE	0.03	4	ESE	67.9	68.3	68.3	30.135	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0736	23	1	100	1
9/20/2012	1:46 PM	68	68	67.9	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.136	0	0	0	0.002	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	1:47 PM	68	68	67.9	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.135	0	0	0	0.002	74.9	52	56.1	75.1	9.55	0.0736	23	1	100	1
9/20/2012	1:48 PM	68	68	68	68	57	2	ESE	0.03	4	ESE	68	68.4	68.4	30.138	0	0	0	0.002	74.9	54	57.1	75.3	9.85	0.0736	24	1	100	1
9/20/2012	1:49 PM	68	68	68	68	57	1	ESE	0.02	3	ESE	68	68.4	68.4	30.137	0	0	0	0.002	74.7	53	56.4	74.9	9.66	0.0737	23	1	100	1
9/20/2012	1:50 PM	68.1	68.1	68	68	57.1	2	ESE	0.03	3	ESE	68.1	68.5	68.5	30.139	0	0	0	0.002	74.9	53	56.6	75.2	9.65	0.0736	23	1	100	1
9/20/2012	1:51 PM	68.1	68.1	68.1	68	57.1	3	ESE	0.05	5	ESE	68.1	68.5	68.5	30.138	0	0	0	0.002	74.9	53	56.6	75.2	9.65	0.0736	24	1	100	1
9/20/2012	1:52 PM	68.1	68.1	68.1	68	57.1	1	ESE	0.02	5	ESE	68.1	68.5	68.5	30.137	0	0	0	0.002	75	53	56.7	75.3	9.65	0.0736	23	1	100	1
9/20/2012	1:53 PM	68.2	68.2	68.2	68	57.2	4	E	0.07	8	E	68.2	68.6	68.6	30.136	0	0	0	0.002	75	54	57.2	75.4	9.85	0.0736	23	1	100	1
9/20/2012	1:54 PM	68.2	68.2	68.2	68	57.2	3	E	0.05	6	E	68.2	68.6	68.6	30.132	0	0	0	0.002	75	53	56.7	75.3	9.65	0.0736	23	1	100	1
9/20/2012	1:55 PM	68.2	68.2	68.2	68	57.2	3	E	0.05	6	E	68.2	68.6	68.6	30.13	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	22	1	95.7	1
9/20/2012	1:56 PM	68.1	68.2	68.1	68	57.1	2	E	0.03	5	E	68.1	68.5	68.5	30.13	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	24	1	100	1
9/20/2012	1:57 PM	68.1	68.1	68.1	68	57.1	3	E	0.05	6	E	68.1	68.5	68.5	30.129	0	0	0	0.002	75.2	53	56.9	75.5	9.65	0.0736	22	1	95.7	1
9/20/2012	1:58 PM	68.2	68.2	68.1	68	57.2	4	E	0.07	6	E	68.2	68.6	68.6	30.129	0	0	0	0.002	75.4	53	57.1	75.7	9.65	0.0735	23	1	100	1
9/20/2012	1:59 PM	68.2	68.2	68.1	68	57.2	4	E	0.07	6	E	68.2	68.6	68.6	30.133	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	23	1	100	1
9/20/2012	2:00 PM	68.2	68.2	68.1	68	57.2	2	E	0.03	3	E	68.2	68.6	68.6	30.132	0	0	0	0.002	75.9	52	57	76	9.53	0.0735	14	1	60.9	1
9/20/2012	2:01 PM	68.2	68.2	68.2	68	57.2	1	E	0.02	1	E	68.2	68.6	68.6	30.13	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	3	1	13	1
9/20/2012	2:02 PM	68.2	68.2	68.2	68	57.2	0	E	0	2	E	68.2	68.6	68.6	30.129	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	22	1	95.7	1
9/20/2012	2:03 PM	68.2	68.2	68.2	68	57.2	2	E	0.03	2	E	68.2	68.6	68.6	30.133	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0734	24	1	100	1
9/20/2012	2:04 PM	68.3	68.3	68.2	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.2	51	57.7	77.1	9.35	0.0733	22	1	95.7	1
9/20/2012	2:05 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.5	50	57.4	77.4	9.2	0.0732	23	1	100	1
9/20/2012	2:06 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.129	0	0	0	0.002	77.5	49	56.8	77.3	9	0.0732	23	1	100	1
9/20/2012	2:07 PM	68.3	68.3	68.3	68	57.3	1	E	0.02	3	E	68.3	68.7	68.7	30.13	0	0	0	0.002	77.7	49	57	77.6	9	0.0732	23	1	100	1
9/20/2012	2:08 PM	68.3	68.3	68.3	67	56.9	1	E	0.02	2	E	68.3	68.6	68.6	30.13	0	0	0	0.002	77.9	49	57.2	77.8	8.99	0.0732	23	1	100	1
9/20/2012	2:09 PM	68.4	68.4	68.3	68	57.4	1	E	0.02	2	E	68.4	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	22	1	95.7	1
9/20/2012	2:10 PM	68.4	68.4	68.4	67	57	1	E	0.02	2	E	68.4	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	24	1	100	1
9/20/2012	2:11 PM	68.5	68.5	68.4	67	57.1	1	E	0.02	3	E	68.5	68.7	68.7	30.129	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	23	1	100	1
9/20/2012	2:12 PM	68.5	68.5	68.5	66	56.7	4	E	0.07	8	E	68.5	68.6	68.6	30.128	0	0	0	0.002	78	49	57.3	77.9	8.99	0.0732	24	1	100	1
9/20/2012	2:13 PM	68.5	68.5	68.5	66	56.7	2	E	0.03	5	E	68.5	68.6	68.6	30.128	0	0	0	0.002	77.7	49	57	77.6	9	0.0732	23	1	100	1
9/20/2012	2:14 PM	68.5	68.5	68.5	66	56.7	5	E	0.08	6	E	68.5	68.6	68.6	30.129	0	0	0	0.002	77.5	49	56.8	77.3	9	0.0732	23	1	100	1
9/20/2012	2:15 PM	68.5	68.5	68.5	66	56.7	1	E	0.02	3	E	68.5	68.6	68.6	30.127	0	0	0	0.002	77.3	49	56.6	77.1	9	0.0733	24	1	100	1
9/20/2012	2:16 PM	68.5	68.5	68.5	66	56.7	2	E	0.03	5	E	68.5	68.6	68.6	30.13	0	0	0	0.002	77.2	50	57.1	77	9.21	0.0733	23	1	100	1
9/20/2012	2:17 PM	68.5	68.6	68.5	66	56.7	3	ESE	0.05	7	ESE	68.5	68.6	68.6	30.132	0	0	0	0.002	77	50	56.9	76.8	9.21	0.0733	24	1	100	1
9/20/2012	2:18 PM	68.5	68.6	68.5	66	56.7	2	ESE	0.03	5	ESE	68.5	68.6	68.6	30.131	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0733	23	1	100	1
9/20/2012	2:19 PM	68.5	68.6	68.5	66	56.7	3	ESE	0.05	5	ESE	68.5	68.6	68.6	30.133	0	0	0	0.002	76.8	50	56.8	76.6	9.21	0.0734	23	1	100	1
9/20/2012	2:20 PM	68.5	68.5	68.5	65	56.3	1	ESE	0.02	3	ESE	68.5	68.6	68.6	30.132	0	0	0	0.002	76.6	50	56.6	76.5	9.22	0.0734	24	1	100	1
9/20/2012	2:21 PM	68.5	68.5	68.5	66	56.7	2	ESE	0.03	3	ESE	68.5	68.6	68.6	30.129	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	23	1	100	1
9/20/2012	2:22 PM	68.6	68.6	68.6	66	56.8	2	ESE	0.03	3	ESE	68.6	68.7	68.7	30.128	0	0	0	0.002	76.4	51	56.9	76.4	9.35	0.0734	24	1	100	1
9/20/2012	2:23 PM	68.6	68.6	68.6	66	56.8	2	ESE	0.03	5	ESE	68.6	68.7	68.7	30.128	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	23	1	100	1
9/20/2012	2:24 PM	68.6	68.6	68.6	65	56.4	4	ESE	0.07	6	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	76.3	51	56.8	76.3	9.35	0.0734	24	1	100	1
9/20/2012	2:25 PM	68.6	68.6	68.6	65	56.4	3	SE	0.05	5	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	76.1	51	56.7	76.1	9.35	0.0734	23	1	100	1
9/20/2012	2:26 PM	68.6	68.6	68.6	65	56.4	1	SE	0.02	2	SE	68.6	68.6	68.6	30.125	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	23	1	100	1
9/20/2012	2:27 PM	68.5	68.6	68.5	65	56.3	0	SE	0	1	SE	68.5	68.6	68.6	30.127	0	0	0	0.002	75.9	51	56.5	76	9.35	0.0735	24	1	100	1
9/20/2012	2:28 PM	68.6	68.6	68.6	65	56.4	0	SE	0	1	SE	68.6	68.6	68.6	30.13	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	23	1	100	1
9/20/2012	2:29 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.13	0	0	0	0.002	75.7	51	56.3	75.8	9.35	0.0735	24	1	100	1
9/20/2012	2:30 PM	68.6	68.7	68.6	65	56.4	1	SE	0.02	2	SE	68.6	68.6	68.6	30.131	0	0	0	0.002	75.7	52	56.8	75.9	9.54	0.0735	23	1	100	1
9/20/2012	2:31 PM	68.6	68.7	68.6	65	56.4	0	SE	0	1	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	22	1	95.7	1
9/20/2012	2:32 PM	68.6	68.7	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.6	52	56.7	75.8	9.54	0.0735	24	1	100	1
9/20/2012	2:33 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	3	SE	68.6	68.6	68.6	30.129	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0735	23	1	100	1
9/20/2012	2:34 PM	68.6	68.6	68.6	65	56.4	2	SE	0.03	4	SE	68.6	68.6	68.6	30.128	0	0	0	0.002	75.4	52	56.5	75.6	9.54	0.0735	24	1	100	1
9/20/2012	2:35 PM	68.6	68.6	68.6	66	56.8	1	SE	0.02	3	SE	68.6	68.7	68.7	30.13	0	0	0	0.002	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:36 PM	68.7	68.7	68.6	65	56.5	1	SE	0.02	3	SE	68.7	68.7	68.7	30.128	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:37 PM	68.7	68.7	68.7	65	56.5	4	SE	0.07	9	SSE	68.7	68.7	68.7	30.127	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	24	1	100	1
9/20/2012	2:38 PM	68.8	68.8	68.8	64	56.1	5	SSE	0.08	8	SSE	68.8	68.7	68.7	30.13	0	0	0	0.003	75.2	52	56.4	75.4	9.55	0.0736	23	1	100	1
9/20/2012	2:39 PM	68.8	68.8	68.8	62	55.2	4	SSE	0.07	9	S	68.8	68.5	68.5	30.127	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	2:40 PM	68.9	68.9	68.8	62	55.3	4	SSE	0.07	8	SSE	68.9	68.5	68.5	30.128	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	23	1	100	1
9/20/2012	2:41 PM	68.9	68.9	68.9	62	55.3	3	SSE	0.05	4	SSE	68.9	68.5	68.5	30.126	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	24	1	100	1
9/20/2012	2:42 PM	68.9	68.9	68.9	63	55.8	4	SSE	0.07	5	SSE	68.9	68.6	68.6	30.128	0	0	0	0.003	75	52	56.2	75.3	9.55	0.0736	23	1	100	1
9/20/2012	2:43 PM	69	69	68.9	62	55.4	4	SSE	0.07	6	SE	69	68.6	68.6	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:44 PM	69.1	69.1	69	62	55.5	4	SSE	0.07	7	SSE	69.1	68.7	68.7	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	24	1	100	1
9/20/2012	2:45 PM	69.2	69.2	69.1	62	55.6	5	SSE	0.08	8	SSE	69.2	68.8	68.8	30.128	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:46 PM	69.2	69.2	69.2	62	55.6	3	SE	0.05	6	SE	69.2	68.8	68.8	30.128	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	23	1	100	1
9/20/2012	2:47 PM	69.2	69.2	69.2	62	55.6	2	ESE	0.03	4	SE	69.2	68.8	68.8	30.127	0	0	0	0.003	74.9	52	56.1	75.1	9.55	0.0736	22	1	95.7	1
9/20/2012	2:48 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.126	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:49 PM	69.2	69.2	69.2	63	56.1	4	ESE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	23	1	100	1
9/20/2012	2:50 PM	69.2	69.2	69.2	63	56.1	4	SE	0.07	7	SE	69.2	68.9	68.9	30.124	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	22	1	95.7	1
9/20/2012	2:51 PM	69.1	69.2	69.1	63	56	6	SSE	0.1	8	SE	69.1	68.8	68.8	30.129	0	0	0	0.003	74.7	52	55.9	74.9	9.56	0.0737	24	1	100	1
9/20/2012	2:52 PM	69.1	69.1	69.1	63	56	7	SSE	0.12	10	S	69.1	68.8	68.8	30.127	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	22	1	95.7	1
9/20/2012	2:53 PM	69	69.1	69	64	56.3	6	SSE	0.1	8	SSE	69	68.8	68.8	30.128	0	0	0	0.003	74.5	52	55.7	74.6	9.56	0.0737	24	1	100

Meteorological Data
Equity IRM

9/20/2012	4:14 PM	67.2	67.2	67.1	69	56.7	4	SSE	0.07	7	SSE	67.2	67.6	67.6	30.121	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:15 PM	67.2	67.2	67.1	69	56.7	2	SSE	0.03	3	SSE	67.2	67.6	67.6	30.122	0	0	0	0.002	74	53	55.8	74	9.69	0.0737	23	1	100	1
9/20/2012	4:16 PM	67.2	67.2	67.2	69	56.7	3	SE	0.05	8	ESE	67.2	67.6	67.6	30.121	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	4:17 PM	67.2	67.2	67.2	69	56.7	4	ESE	0.07	6	SE	67.2	67.6	67.6	30.121	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	22	1	95.7	1
9/20/2012	4:18 PM	67.3	67.3	67.2	69	56.8	2	SE	0.03	4	SE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:19 PM	67.3	67.3	67.3	69	56.8	3	SE	0.05	4	SE	67.3	67.7	67.7	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	23	1	100	1
9/20/2012	4:20 PM	67.4	67.4	67.3	69	56.9	3	SSE	0.05	7	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.8	53	55.6	73.8	9.7	0.0738	24	1	100	1
9/20/2012	4:21 PM	67.4	67.4	67.4	69	56.9	4	SSE	0.07	9	SSE	67.4	67.8	67.8	30.119	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	23	1	100	1
9/20/2012	4:22 PM	67.4	67.4	67.3	68	56.5	6	SSE	0.1	8	SSE	67.4	67.7	67.7	30.122	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:23 PM	67.3	67.4	67.3	68	56.4	4	SSE	0.07	7	SSE	67.3	67.6	67.6	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	24	1	100	1
9/20/2012	4:24 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.6	53	55.4	73.5	9.71	0.0738	22	1	95.7	1
9/20/2012	4:25 PM	67.3	67.3	67.3	69	56.8	4	SSE	0.07	6	SSE	67.3	67.7	67.7	30.12	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:26 PM	67.3	67.3	67.3	68	56.4	6	SSE	0.1	8	SSE	67.3	67.6	67.6	30.12	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:27 PM	67.3	67.3	67.3	69	56.8	3	E	0.05	7	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:28 PM	67.3	67.3	67.3	69	56.8	3	ESE	0.05	7	E	67.3	67.7	67.7	30.121	0	0	0	0.002	73.5	53	55.3	73.4	9.71	0.0738	23	1	100	1
9/20/2012	4:29 PM	67.3	67.3	67.3	69	56.8	5	SE	0.08	7	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	22	1	95.7	1
9/20/2012	4:30 PM	67.3	67.3	67.2	69	56.8	4	SE	0.07	7	SE	67.3	67.7	67.7	30.121	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	24	1	100	1
9/20/2012	4:31 PM	67.3	67.3	67.2	69	56.8	4	ESE	0.07	8	SSW	67.3	67.7	67.7	30.12	0	0	0	0.002	73.3	53	55.1	73.2	9.72	0.0739	21	1	91.3	1
9/20/2012	4:32 PM	67.3	67.3	67.3	69	56.8	5	ESE	0.08	9	SE	67.3	67.7	67.7	30.122	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:33 PM	67.2	67.3	67.2	69	56.7	6	SSE	0.1	9	SSE	67.2	67.6	67.6	30.122	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:34 PM	67.2	67.2	67.2	69	56.7	6	S	0.1	10	SSE	67.2	67.6	67.6	30.123	0	0	0	0.002	73.1	53	54.9	72.9	9.73	0.0739	22	1	95.7	1
9/20/2012	4:35 PM	67.1	67.1	67.1	69	56.6	6	SSE	0.1	10	SSE	67.1	67.4	67.4	30.123	0	0	0	0.001	73.1	53	54.9	72.9	9.73	0.0739	23	1	100	1
9/20/2012	4:36 PM	67	67.1	67	69	56.5	5	SSE	0.08	10	SE	67	67.3	67.3	30.121	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	22	1	95.7	1
9/20/2012	4:37 PM	67	67	67	69	56.5	6	SSE	0.1	8	SSE	67	67.3	67.3	30.121	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	24	1	100	1
9/20/2012	4:38 PM	66.9	67	66.9	69	56.4	6	SSE	0.1	11	SSE	66.9	67.2	67.2	30.123	0	0	0	0.001	73	53	54.9	72.8	9.73	0.0739	22	1	95.7	1
9/20/2012	4:39 PM	66.9	66.9	66.9	69	56.4	5	SE	0.08	9	SE	66.9	67.2	67.2	30.123	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	24	1	100	1
9/20/2012	4:40 PM	66.8	66.9	66.8	70	56.7	7	SE	0.12	9	SE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	22	1	95.7	1
9/20/2012	4:41 PM	66.8	66.8	66.8	70	56.7	6	SE	0.1	9	SE	66.8	67.2	67.2	30.123	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	22	1	95.7	1
9/20/2012	4:42 PM	66.8	66.8	66.8	70	56.7	6	SE	0.1	10	SE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.8	53	54.7	72.5	9.74	0.074	24	1	100	1
9/20/2012	4:43 PM	66.7	66.8	66.7	70	56.6	7	SSE	0.12	9	SSE	66.7	67	67	30.123	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	23	1	100	1
9/20/2012	4:44 PM	66.7	66.8	66.7	70	56.6	6	SSE	0.1	9	SSE	66.7	67	67	30.123	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	24	1	100	1
9/20/2012	4:45 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	10	SSE	66.7	67	67	30.124	0	0	0	0.001	72.6	53	54.5	72.2	9.75	0.074	23	1	100	1
9/20/2012	4:46 PM	66.7	66.7	66.7	70	56.6	3	S	0.05	5	S	66.7	67	67	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	22	1	95.7	1
9/20/2012	4:47 PM	66.8	66.8	66.7	70	56.7	3	ESE	0.05	5	ESE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	24	1	100	1
9/20/2012	4:48 PM	66.8	66.8	66.8	70	56.7	5	S	0.08	12	S	66.8	67.2	67.2	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	22	1	95.7	1
9/20/2012	4:49 PM	66.8	66.8	66.8	70	56.7	7	SSE	0.12	11	S	66.8	67.2	67.2	30.125	0	0	0	0.001	72.4	53	54.3	71.9	9.75	0.074	24	1	100	1
9/20/2012	4:50 PM	66.8	66.8	66.8	70	56.7	9	SSE	0.15	12	SSE	65.5	67.2	65.9	30.123	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.074	22	1	95.7	1
9/20/2012	4:51 PM	66.8	66.8	66.8	70	56.7	4	SSE	0.07	7	ESE	66.8	67.2	67.2	30.124	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.0741	24	1	100	1
9/20/2012	4:52 PM	66.8	66.8	66.7	70	56.7	5	SSE	0.08	8	SSE	66.8	67.2	67.2	30.122	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.074	23	1	100	1
9/20/2012	4:53 PM	66.7	66.8	66.7	70	56.6	6	SSE	0.1	10	SSE	66.7	67	67	30.124	0	0	0	0.001	72.3	53	54.2	71.8	9.76	0.0741	23	1	100	1
9/20/2012	4:54 PM	66.7	66.8	66.7	70	56.6	7	SE	0.12	12	SE	66.7	67	67	30.124	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:55 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	9	SE	66.7	67	67	30.121	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:56 PM	66.7	66.7	66.7	70	56.6	5	SSE	0.08	7	SSE	66.7	67	67	30.122	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	24	1	100	1
9/20/2012	4:57 PM	66.6	66.7	66.6	70	56.5	6	SSE	0.1	10	SE	66.6	66.9	66.9	30.123	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:58 PM	66.6	66.7	66.6	70	56.5	7	SSE	0.12	11	SSE	66.6	66.9	66.9	30.124	0	0	0	0.001	72.1	53	54	71.5	9.77	0.0741	23	1	100	1
9/20/2012	4:59 PM	66.6	66.7	66.6	70	56.5	5	ESE	0.08	8	SE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	24	1	100	1
9/20/2012	5:00 PM	66.6	66.6	66.6	70	56.5	7	SE	0.12	10	SE	66.6	66.9	66.9	30.122	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:01 PM	66.6	66.6	66.6	70	56.5	6	SSE	0.1	8	SSE	66.6	66.9	66.9	30.12	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:02 PM	66.6	66.6	66.6	70	56.5	3	SSE	0.05	5	S	66.6	66.9	66.9	30.121	0	0	0	0.001	71.9	53	53.8	71.2	9.77	0.0741	23	1	100	1
9/20/2012	5:03 PM	66.6	66.6	66.6	70	56.5	5	ESE	0.08	9	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	24	1	100	1
9/20/2012	5:04 PM	66.7	66.7	66.7	70	56.6	6	SSE	0.1	10	ESE	66.7	67	67	30.12	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:05 PM	66.7	66.7	66.7	70	56.6	4	SE	0.07	7	SE	66.7	67	67	30.119	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:06 PM	66.7	66.7	66.7	70	56.6	4	ESE	0.07	10	SSE	66.7	67	67	30.119	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	24	1	100	1
9/20/2012	5:07 PM	66.7	66.7	66.6	70	56.6	6	SE	0.1	8	SE	66.7	67	67	30.118	0	0	0	0.001	71.8	53	53.7	71	9.78	0.0741	23	1	100	1
9/20/2012	5:08 PM	66.7	66.7	66.6	70	56.6	7	SE	0.12	12	SSE	66.7	67	67	30.119	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:09 PM	66.6	66.7	66.6	70	56.5	6	SSE	0.1	10	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:10 PM	66.6	66.6	66.6	70	56.5	5	SE	0.08	7	SSE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:11 PM	66.6	66.6	66.6	70	56.5	4	SE	0.07	9	SE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	24	1	100	1
9/20/2012	5:12 PM	66.6	66.6	66.6	70	56.5	5	ESE	0.08	10	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.6	53	53.6	70.7	9.79	0.0742	23	1	100	1
9/20/2012	5:13 PM	66.6	66.7	66.6	70	56.5	5	SSE	0.08	10	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	24	1	100	1
9/20/2012	5:14 PM	66.7	66.7	66.7	70	56.6	7	S	0.12	11	S	66.7	67	67	30.119	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	23	1	100	1
9/20/2012	5:15 PM	66.7	66.7	66.6	70	56.6	6	S	0.1	8	SSE	66.7	67	67	30.117	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	23	1	100	1
9/20/2012	5:16 PM	66.6	66.7	66.6	70	56.5	6	SE	0.1	10	SSE	66.6	66.9	66.9	30.117	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	24	1	100	1
9/20/2012	5:17 PM	66.6	66.6	66.6	70	56.5	5	SSE	0.08	7	S	66.6	66.9	66.9	30.118	0	0	0	0.001	71.4	53	53.4	70.4	9.79	0.0742	22	1	95.7	1
9/20/2012	5:18 PM	66.6	66.6	66.6	70	56.5	6	SSE	0.1	9	SSE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	24	1	100	1
9/20/2012	5:19 PM	66.6	66.6	66.6	71	56.9	5	S	0.08	8	ESE	66.6	67	67	30.118	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:20 PM	66.6	66.6	66.6	70	56.5	4	ESE	0.07	9	SE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	24	1	100	1
9/20/2012	5:21 PM	66.6	66.6	66.6	70	56.5	2	ESE	0.03	4	ESE	66.6	66.9	66.9	30.119	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	22	1	95.7	1
9/20/2012	5:22 PM	66.6	66.6	66.6	70	56.5	5	SSE	0.08	7	SSE	66.6	66.9	66.9	30.117	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:23 PM	66.7	66.7	66.6	70	56.6	4	SSE	0.07	8	SSE	66.7	67	67	30.12	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	23	1	100	1
9/20/2012	5:24 PM	66.7	66.7	66.7	71	57	5	SSE	0.08	9	ESE	66.7	67.1	67.1	30.121	0	0	0	0.001	71.2	53	53.2	70.1	9.8	0.0742	21	1	91.3	1
9/20/2012	5:25 PM	66.7	66.7	66.7	70	56.6	4	SSE	0.07	9	SSE	66.7	67	67	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	24	1	100	1
9/20/2012	5:26 PM	66.7	66.7	66.7	70	56.6	8	SSE	0.13	13	SSE	66.1	67	66.4	30.119	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	22	1	95.7	1
9/20/2012	5:27 PM	66.7	66.7	66.7	70	56.6	5	SSE	0.08	7	S	66.7	67	67	30.118	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:28 PM	66.6	66.7	66.6	70	56.5	8	SSE	0.13	14	SSE	66	66.9	66.3	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:29 PM	66.6	66.6	66.6	70	56.5	7	SE	0.12	11	ESE	66.6	66.9	66.9	30.118	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:30 PM	66.6	66.6	66.6	70	56.5	7	SSE	0.12	12	SSE	66.6	66.9	66.9	30.12	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:31 PM	66.5	66.5	66.5	70	56.4	7	SSE	0.12	11	SSE	66.5	66.8	66.8	30.121	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0743	23	1	100	1
9/20/2012	5:32 PM	66.4	66.5	66.4	71	56.7	6	SSE	0.1	8	SE	66.4	66.7	66.7	30.119	0	0	0	0.001	71.1	53	53.1	70	9.81	0.0742	23	1	100	1
9/20/2012	5:33 PM	66.4	66.4	66.4	71	56.7	3	ESE	0.05	6	SSE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	22	1	95.7	1
9/20/2012	5:34 PM	66.4	66.5	66.4	71	56.7	8	SSE	0.13	13	SSE	65.8	66.7	66.1	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:35 PM	66.4	66.4	66.4	71	56.7	7	SE	0.12	14	SE	66.4	66.7	66.7	30.123	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	24	1	100	1
9/20/2012	5:36 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	8	SE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:37 PM	66.4	66.4	66.3	71	56.7	5	SSE	0.08	11	S	66.4	66.7	66.7	30.119	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	24	1	100	1
9/20/2012	5:38 PM	66.4	66.4	66.4	71	56.7	3	SSE	0.05	5	SSE	66.4	66.7	66.7	30.122	0	0	0	0.001	70.9	53	52.9	69.7	9.81	0.0743	23	1	100	1
9/20/2012	5:39 PM	66.4	66.4	66.4	71	56.7	5	ESE	0.08	9	SSE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	23	1	100	1
9/20/2012	5:40 PM	66.4	66.4	66.4	71	56.7	5	S	0.08	10	SSE	66.4	66.7	66.7	30.121	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	24	1	100	1
9/20/2012	5:41 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	8	SE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.9	54	53.4	69.8	9.93	0.0743	23	1	100	1
9/20/2012	5:42 PM	66.4	66.4	66.4	71	56.7	4	SE	0.07	9	SSE	66.4	66.7	66.7	30.12	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:43 PM	66.4	66.4	66.4	71	56.7	3	SSE	0.05	4	SSE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:44 PM	66.4	66.4	66.4	71	56.7	5	SSE	0.08	10	ESE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:45 PM	66.4	66.4	66.3	71	56.7	6	SSE	0.1	10	SSE	66.4	66.7	66.7	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:46 PM	66.3	66.4	66.3	71	56.6	4	SSE	0.07	8	S	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:47 PM	66.3	66.3	66.3	71	56.6	6	ESE	0.1	11	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	24	1	100	1
9/20/2012	5:48 PM	66.3	66.3	66.3	71	56.6	4	E	0.07	7	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.7	54	53.2	69.5	9.94	0.0743	23	1	100	1
9/20/2012	5:49 PM	66.3	66.3	66.3	71	56.6	7	SE	0.12	12	SE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:50 PM	66.3	66.3	66.3	71	56.6	5	E	0.08	8	SE	66.3	66.6	66.6	30.121	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:51 PM	66.3	66.3	66.3	71	56.6	4	SSE	0.07	7	SSE	66.3	66.6	66.6	30.118	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	23	1	100	1
9/20/2012	5:52 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	9	SSE	66.3	66.6	66.6	30.119	0	0	0	0.001	70.6	54	53.1	69.4	9.94	0.0743	24	1	100	1
9/20/2012	5:53 PM	66.3	66.3	66.3	71	56.6	5	SSE	0.08	7	S	66.3

Meteorological Data
Equity IRM

9/20/2012	7:14 PM	65.4	65.4	65.4	74	56.9	1	SE	0.02	4	SE	65.4	65.7	65.7	30.119	0	0	0	0	67	55	50.3	66.1	10.21	0.0749	23	1	100	1
9/20/2012	7:15 PM	65.4	65.4	65.3	74	56.9	3	ESE	0.05	5	ESE	65.4	65.7	65.7	30.119	0	0	0	0	67	55	50.3	66.1	10.21	0.0749	23	1	100	1
9/20/2012	7:16 PM	65.3	65.4	65.3	74	56.8	2	SE	0.03	5	SE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	23	1	100	1
9/20/2012	7:17 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	9	SSE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	22	1	95.7	1
9/20/2012	7:18 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	7	SSE	65.3	65.6	65.6	30.119	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	24	1	100	1
9/20/2012	7:19 PM	65.3	65.3	65.3	74	56.8	3	SSE	0.05	5	SE	65.3	65.6	65.6	30.117	0	0	0	0	66.9	55	50.2	66	10.21	0.0749	22	1	95.7	1
9/20/2012	7:20 PM	65.3	65.3	65.3	74	56.8	3	SE	0.05	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:21 PM	65.3	65.3	65.3	74	56.8	6	SSE	0.1	8	SSE	65.3	65.6	65.6	30.118	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:22 PM	65.3	65.3	65.3	74	56.8	5	SSE	0.08	8	SSE	65.3	65.6	65.6	30.121	0	0	0	0	66.7	55	50	65.7	10.22	0.075	23	1	100	1
9/20/2012	7:23 PM	65.2	65.3	65.2	74	56.7	4	SSE	0.07	8	SSE	65.2	65.5	65.5	30.12	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:24 PM	65.2	65.3	65.2	74	56.7	2	SE	0.03	5	S	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	23	1	100	1
9/20/2012	7:25 PM	65.2	65.3	65.2	74	56.7	3	SSE	0.05	4	SSE	65.2	65.5	65.5	30.121	0	0	0	0	66.6	55	49.9	65.6	10.22	0.075	22	1	95.7	1
9/20/2012	7:26 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	6	SE	65.2	65.5	65.5	30.122	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	23	1	100	1
9/20/2012	7:27 PM	65.2	65.2	65.2	74	56.7	3	S	0.05	4	ESE	65.2	65.5	65.5	30.121	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	23	1	100	1
9/20/2012	7:28 PM	65.2	65.2	65.2	74	56.7	2	SSE	0.03	3	SSE	65.2	65.5	65.5	30.12	0	0	0	0	66.4	55	49.7	65.4	10.22	0.075	24	1	100	1
9/20/2012	7:29 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	9	SSE	65.2	65.5	65.5	30.119	0	0	0	0	66.2	55	49.6	65.1	10.23	0.0751	23	1	100	1
9/20/2012	7:30 PM	65.2	65.2	65.2	74	56.7	3	SSE	0.05	6	S	65.2	65.5	65.5	30.12	0	0	0	0	66.2	55	49.6	65.1	10.23	0.0751	24	1	100	1
9/20/2012	7:31 PM	65.2	65.2	65.2	74	56.7	4	SE	0.07	9	ESE	65.2	65.5	65.5	30.12	0	0	0	0	66.2	56	50	65.2	10.43	0.0751	23	1	100	1
9/20/2012	7:32 PM	65.2	65.2	65.1	74	56.7	3	SE	0.05	4	SE	65.2	65.5	65.5	30.117	0	0	0	0	66.2	56	50	65.2	10.43	0.075	23	1	100	1
9/20/2012	7:33 PM	65.1	65.2	65.1	74	56.6	2	S	0.03	5	SE	65.1	65.4	65.4	30.118	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	24	1	100	1
9/20/2012	7:34 PM	65.1	65.1	65.1	74	56.6	1	S	0.02	3	S	65.1	65.4	65.4	30.119	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	23	1	100	1
9/20/2012	7:35 PM	65.1	65.1	65.1	74	56.6	2	S	0.03	3	S	65.1	65.4	65.4	30.12	0	0	0	0	66.1	56	49.9	65.1	10.43	0.0751	24	1	100	1
9/20/2012	7:36 PM	65.1	65.1	65.1	74	56.6	1	SSE	0.02	2	SSE	65.1	65.4	65.4	30.12	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	21	1	91.3	1
9/20/2012	7:37 PM	65.1	65.1	65.1	74	56.6	1	SSE	0.02	3	SSE	65.1	65.4	65.4	30.121	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:38 PM	65.1	65.1	65.1	74	56.6	3	SE	0.05	5	SSE	65.1	65.4	65.4	30.122	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:39 PM	65	65.1	65	74	56.5	2	SE	0.03	4	SSE	65	65.2	65.2	30.122	0	0	0	0	65.9	56	49.8	64.9	10.43	0.0751	23	1	100	1
9/20/2012	7:40 PM	65	65.1	65	74	56.5	4	SE	0.07	6	SE	65	65.2	65.2	30.123	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	24	1	100	1
9/20/2012	7:41 PM	65	65	65	74	56.5	3	SE	0.05	7	SE	65	65.2	65.2	30.122	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	23	1	100	1
9/20/2012	7:42 PM	65	65	65	74	56.5	2	SE	0.03	5	SE	65	65.2	65.2	30.124	0	0	0	0	65.8	56	49.7	64.8	10.43	0.0751	24	1	100	1
9/20/2012	7:43 PM	65	65	65	74	56.5	3	SE	0.05	5	ESE	65	65.2	65.2	30.125	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	23	1	100	1
9/20/2012	7:44 PM	65	65	64.9	75	56.9	3	SE	0.05	5	SE	65	65.3	65.3	30.123	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	23	1	100	1
9/20/2012	7:45 PM	64.9	65	64.9	75	56.8	2	SE	0.03	4	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	24	1	100	1
9/20/2012	7:46 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	3	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.6	56	49.5	64.5	10.44	0.0752	22	1	95.7	1
9/20/2012	7:47 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	24	1	100	1
9/20/2012	7:48 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	23	1	100	1
9/20/2012	7:49 PM	64.9	64.9	64.9	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.4	56	49.3	64.3	10.44	0.0752	22	1	95.7	1
9/20/2012	7:50 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	24	1	100	1
9/20/2012	7:51 PM	64.9	64.9	64.9	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	22	1	95.7	1
9/20/2012	7:52 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	SE	64.9	65.2	65.2	30.125	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	24	1	100	1
9/20/2012	7:53 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	ESE	64.9	65.2	65.2	30.126	0	0	0	0	65.3	56	49.2	64.2	10.44	0.0752	23	1	100	1
9/20/2012	7:54 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	5	SE	64.9	65.2	65.2	30.125	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:55 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.124	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:56 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	6	SE	64.9	65.2	65.2	30.126	0	0	0	0	65.1	56	49	64	10.45	0.0753	23	1	100	1
9/20/2012	7:57 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	ESE	64.9	65.2	65.2	30.125	0	0	0	0	65.1	56	49	64	10.45	0.0753	24	1	100	1
9/20/2012	7:58 PM	64.9	64.9	64.8	75	56.8	1	ESE	0.02	3	ESE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	7:59 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	4	ESE	64.9	65.2	65.2	30.125	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	24	1	100	1
9/20/2012	8:00 PM	64.9	64.9	64.9	75	56.8	3	E	0.05	7	SSE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	22	1	95.7	1
9/20/2012	8:01 PM	64.9	64.9	64.9	75	56.8	5	SE	0.08	8	ESE	64.9	65.2	65.2	30.126	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	8:02 PM	64.9	64.9	64.9	75	56.8	4	ESE	0.07	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.9	56	48.8	63.8	10.45	0.0753	23	1	100	1
9/20/2012	8:03 PM	64.9	64.9	64.9	75	56.8	3	SSE	0.05	7	SE	64.9	65.2	65.2	30.126	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	23	1	100	1
9/20/2012	8:04 PM	64.9	64.9	64.9	75	56.8	3	SE	0.05	6	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	22	1	95.7	1
9/20/2012	8:05 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	4	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	23	1	100	1
9/20/2012	8:06 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	5	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.8	56	48.7	63.7	10.45	0.0753	21	1	91.3	1
9/20/2012	8:07 PM	64.9	64.9	64.9	75	56.8	2	ESE	0.03	3	ESE	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	24	1	100	1
9/20/2012	8:08 PM	64.9	64.9	64.9	75	56.8	5	SE	0.08	7	SE	64.9	65.2	65.2	30.124	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	21	1	91.3	1
9/20/2012	8:09 PM	64.9	64.9	64.9	75	56.8	3	S	0.05	6	S	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:10 PM	64.9	64.9	64.9	75	56.8	2	SSE	0.03	4	SSE	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:11 PM	64.9	64.9	64.9	75	56.8	1	SE	0.02	3	SE	64.9	65.2	65.2	30.122	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	22	1	95.7	1
9/20/2012	8:12 PM	64.9	64.9	64.9	75	56.8	2	SE	0.03	6	E	64.9	65.2	65.2	30.123	0	0	0	0	64.6	56	48.5	63.4	10.45	0.0753	23	1	100	1
9/20/2012	8:13 PM	64.9	64.9	64.9	75	56.8	4	SSE	0.07	6	E	64.9	65.2	65.2	30.123	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	21	1	91.3	1
9/20/2012	8:14 PM	64.9	64.9	64.9	75	56.8	3	ESE	0.05	4	SE	64.9	65.2	65.2	30.123	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	24	1	100	1
9/20/2012	8:15 PM	64.9	64.9	64.9	75	56.8	3	ESE	0.05	7	S	64.9	65.2	65.2	30.124	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	21	1	91.3	1
9/20/2012	8:16 PM	64.9	64.9	64.9	75	56.8	4	SE	0.07	8	SE	64.9	65.2	65.2	30.127	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:17 PM	64.9	64.9	64.9	75	56.8	3	E	0.05	5	E	64.9	65.2	65.2	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	22	1	95.7	1
9/20/2012	8:18 PM	64.8	64.9	64.8	75	56.7	2	ESE	0.03	4	ESE	64.8	65.1	65.1	30.125	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:19 PM	64.8	64.9	64.8	75	56.7	2	ESE	0.03	3	ESE	64.8	65.1	65.1	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	22	1	95.7	1
9/20/2012	8:20 PM	64.8	64.8	64.8	75	56.7	1	ESE	0.02	3	ESE	64.8	65.1	65.1	30.126	0	0	0	0	64.5	56	48.4	63.3	10.45	0.0754	23	1	100	1
9/20/2012	8:21 PM	64.8	64.8	64.8	75	56.7	2	ESE	0.03	6	SSE	64.8	65.1	65.1	30.125	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:22 PM	64.8	64.8	64.8	75	56.7	4	SSE	0.07	8	SSE	64.8	65.1	65.1	30.125	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:23 PM	64.8	64.8	64.7	75	56.7	4	SSE	0.07	7	SSE	64.8	65.1	65.1	30.127	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:24 PM	64.8	64.8	64.8	75	56.7	2	SE	0.03	3	SE	64.8	65.1	65.1	30.127	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:25 PM	64.8	64.8	64.7	75	56.7	1	SE	0.02	3	SE	64.8	65.1	65.1	30.129	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	23	1	100	1
9/20/2012	8:26 PM	64.7	64.8	64.7	75	56.6	2	SE	0.03	4	SE	64.7	64.9	64.9	30.13	0	0	0	0	64.3	56	48.3	63.1	10.45	0.0754	24	1	100	1
9/20/2012	8:27 PM	64.7	64.8	64.7	75	56.6	3	SE	0.05	7	SE	64.7	64.9	64.9	30.129	0	0	0	0	64.3	57	48.7	63.2	10.64	0.0754	23	1	100	1
9/20/2012	8:28 PM	64.7	64.7	64.7	75	56.6	2	SE	0.03	5	SE	64.7	64.9	64.9	30.13	0	0	0	0	64.3	57	48.7	63.2	10.64	0.0754	23	1	100	1
9/20/2012	8:29 PM	64.7	64.7	64.7	75	56.6	2	ESE	0.03	5	ESE	64.7	64.9	64.9	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:30 PM	64.7	64.7	64.7	75	56.6	3	ESE	0.05	6	SE	64.7	64.9	64.9	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:31 PM	64.6	64.7	64.6	75	56.5	2	SE	0.03	4	SE	64.6	64.8	64.8	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:32 PM	64.6	64.6	64.6	75	56.5	2	SE	0.03	4	SE	64.6	64.8	64.8	30.128	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	22	1	95.7	1
9/20/2012	8:33 PM	64.6	64.6	64.6	75	56.5	2	ESE	0.03	4	ESE	64.6	64.8	64.8	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:34 PM	64.6	64.6	64.6	75	56.5	4	ESE	0.07	6	SE	64.6	64.8	64.8	30.13	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	23	1	100	1
9/20/2012	8:35 PM	64.6	64.6	64.6	75	56.5	4	SE	0.07	6	SE	64.6	64.8	64.8	30.129	0	0	0	0	64.1	57	48.5	63	10.63	0.0754	24	1	100	1
9/20/2012	8:36 PM	64.6	64.6	64.6	75	56.5	2	ESE	0.03	5	ESE	64.6	64.8	64.8	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:37 PM	64.6	64.6	64.6	75	56.5	5	SSE	0.08	8	SSE	64.6	64.8	64.8	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:38 PM	64.5	64.6	64.5	75	56.4	3	SE	0.05	5	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	24	1	100	1
9/20/2012	8:39 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	3	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:40 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	4	SE	64.5	64.7	64.7	30.13	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	24	1	100	1
9/20/2012	8:41 PM	64.5	64.5	64.5	75	56.4	2	SE	0.03	3	SE	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	23	1	100	1
9/20/2012	8:42 PM	64.5	64.5	64.5	75	56.4	3	E	0.05	6	E	64.5	64.7	64.7	30.129	0	0	0	0	64	57	48.5	62.9	10.63	0.0754	22	1	95.7	1
9/20/2012	8:43 PM	64.5	64.5	64.5	75	56.4	3	E	0.05	5	E	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/20/2012	8:44 PM	64.5	64.5	64.5	75	56.4	2	E	0.03	4	SE	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	23	1	100	1
9/20/2012	8:45 PM	64.5	64.5	64.5	75	56.4	3	SE	0.05	5	SE	64.5	64.7	64.7	30.128	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/20/2012	8:46 PM	64.4	64.5	64.4	75	56.3	1	SE	0.02	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	23	1	100	1
9/20/2012	8:47 PM	64.4	64.5	64.4	75	56.3	2	SE	0.03	3	SE	64.4	64.6	64.6	30.127	0	0	0	0	63.8	57	48.3	62.6	10.63	0.0755	22	1	95.7	1
9/20/2012	8:48 PM	64.4	64.4	64.4	75	56.3	2	SE	0.03	4	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	24	1	100	1
9/20/2012	8:49 PM	64.4	64.4	64.4	75	56.3	1	SE	0.02	2	SE	64.4	64.6	64.6	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:50 PM	64.4	64.4	64.4	76	56.7	0	SE	0	1	SE	64.4	64.7	64.7	30.128	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	22	1	95.7	1
9/20/2012	8:51 PM	64.4	64.4	64.4	76	56.7	1	SE	0.02	2	SE	64.4	64.7	64.7	30.13	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:52 PM	64.4	64.4	64.4	76	56.7	2	ESE	0.03	3	ESE	64.4	64.7	64.7	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:53 PM	64.4	64.4	64.3	75	56.3	5	SSE	0.08	8	SE	64.4	64.6	64.6	30.131	0	0	0	0	63.6	57	48.1	62.4	10.62	0.0755	23	1	100	1
9/20/2012	8:54 PM	64.4	64.4	64.3	75	56.3	5	SE	0.08	8	SSE	64.4	64.6	64.6	30.131	0	0	0	0	63.5	57	48

Meteorological Data
Equity IRM

9/20/2012	10:14 PM	63.6	63.6	63.6	78	56.6	2	SE	0.03	4	SE	63.6	63.9	63.9	30.122	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	24	1	100	1
9/20/2012	10:15 PM	63.6	63.6	63.6	78	56.6	1	SE	0.02	2	SE	63.6	63.9	63.9	30.122	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	23	1	100	1
9/20/2012	10:16 PM	63.6	63.6	63.5	78	56.6	1	SE	0.02	2	SE	63.6	63.9	63.9	30.121	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	23	1	100	1
9/20/2012	10:17 PM	63.5	63.6	63.5	78	56.5	1	SE	0.02	3	SE	63.5	63.7	63.7	30.121	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	24	1	100	1
9/20/2012	10:18 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.4	58	46.5	60.1	10.75	0.0759	22	1	95.7	1
9/20/2012	10:19 PM	63.5	63.5	63.5	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:20 PM	63.5	63.5	63.5	78	56.5	2	SE	0.03	4	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	23	1	100	1
9/20/2012	10:21 PM	63.5	63.5	63.4	78	56.5	1	SE	0.02	2	SE	63.5	63.7	63.7	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:22 PM	63.5	63.5	63.4	78	56.5	2	SE	0.03	3	SE	63.5	63.7	63.7	30.124	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:23 PM	63.4	63.5	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	22	1	95.7	1
9/20/2012	10:24 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.123	0	0	0.001	0	61.3	58	46.4	60	10.75	0.0759	24	1	100	1
9/20/2012	10:25 PM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.125	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:26 PM	63.4	63.4	63.4	78	56.4	0	SE	0	3	SE	63.4	63.6	63.6	30.124	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	24	1	100	1
9/20/2012	10:27 PM	63.4	63.4	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.124	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:28 PM	63.3	63.4	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.126	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:29 PM	63.3	63.3	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.126	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	24	1	100	1
9/20/2012	10:30 PM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61.1	58	46.2	59.7	10.75	0.0759	23	1	100	1
9/20/2012	10:31 PM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:32 PM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:33 PM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	23	1	100	1
9/20/2012	10:34 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	3	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	24	1	100	1
9/20/2012	10:35 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.126	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	22	1	95.7	1
9/20/2012	10:36 PM	63.3	63.3	63.3	79	56.7	0	SE	0	2	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	61	58	46.1	59.6	10.75	0.0759	24	1	100	1
9/20/2012	10:37 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:38 PM	63.2	63.3	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	24	1	100	1
9/20/2012	10:39 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:40 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:41 PM	63.3	63.3	63.2	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	24	1	100	1
9/20/2012	10:42 PM	63.2	63.2	63.2	79	56.6	0	SE	0	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.8	58	45.9	59.4	10.75	0.076	23	1	100	1
9/20/2012	10:43 PM	63.2	63.3	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:44 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	23	1	100	1
9/20/2012	10:45 PM	63.2	63.2	63.2	79	56.6	0	SE	0	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	23	1	100	1
9/20/2012	10:46 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:47 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	22	1	95.7	1
9/20/2012	10:48 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	60.7	58	45.8	59.3	10.75	0.076	24	1	100	1
9/20/2012	10:49 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:50 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:51 PM	63.3	63.3	63.2	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:52 PM	63.3	63.3	63.2	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.13	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:53 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:54 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	22	1	95.7	1
9/20/2012	10:55 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.5	58	45.6	59.1	10.75	0.076	24	1	100	1
9/20/2012	10:56 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	22	1	95.7	1
9/20/2012	10:57 PM	63.4	63.4	63.3	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	10:58 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	22	1	95.7	1
9/20/2012	10:59 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:00 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:01 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.129	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:02 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	24	1	100	1
9/20/2012	11:03 PM	63.5	63.5	63.4	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.3	58	45.5	58.9	10.75	0.0761	23	1	100	1
9/20/2012	11:04 PM	63.5	63.5	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:05 PM	63.5	63.5	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:06 PM	63.5	63.5	63.5	79	56.9	0	SE	0	2	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:07 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:08 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:09 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:10 PM	63.5	63.6	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:11 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:12 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:13 PM	63.6	63.6	63.5	79	57	1	SE	0.02	1	SE	63.6	63.9	63.9	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:14 PM	63.5	63.6	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.126	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:15 PM	63.6	63.6	63.5	79	57	1	SE	0.02	2	SE	63.6	63.9	63.9	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:16 PM	63.6	63.6	63.5	79	57	0	SE	0	1	SE	63.6	63.9	63.9	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	23	1	100	1
9/20/2012	11:17 PM	63.5	63.6	63.5	79	56.9	0	SE	0	1	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60.2	58	45.4	58.8	10.75	0.0761	24	1	100	1
9/20/2012	11:18 PM	63.5	63.5	63.5	79	56.9	0	SE	0	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:19 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.125	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:20 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:21 PM	63.5	63.5	63.5	79	56.9	2	SE	0.03	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:22 PM	63.5	63.5	63.5	79	56.9	1	SE	0.02	2	SE	63.5	63.8	63.8	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:23 PM	63.5	63.5	63.4	79	56.9	2	SE	0.03	3	SE	63.5	63.8	63.8	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:24 PM	63.4	63.5	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:25 PM	63.4	63.4	63.4	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.128	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:26 PM	63.4	63.4	63.4	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:27 PM	63.4	63.4	63.3	79	56.8	0	SE	0	1	SE	63.4	63.7	63.7	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:28 PM	63.3	63.3	63.3	79	56.7	0	SE	0	1	SE	63.3	63.6	63.6	30.126	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:29 PM	63.3	63.3	63.3	79	56.7	0	SE	0	2	SE	63.3	63.6	63.6	30.125	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:30 PM	63.3	63.3	63.3	79	56.7	1	SE	0.02	2	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:31 PM	63.2	63.3	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/20/2012	11:32 PM	63.2	63.2	63.2	79	56.6	0	SE	0	1	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/20/2012	11:33 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:34 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.128	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:35 PM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:36 PM	63.2	63.2	63.1	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:37 PM	63.1	63.2	63.1	79	56.5	1	SE	0.02	2	SE	63.1	63.3	63.3	30.127	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:38 PM	63.1	63.1	63.1	80	56.8	0	SE	0	2	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:39 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/20/2012	11:40 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	3	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:41 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	3	SE	63.1	63.4	63.4	30.126	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:42 PM	63.1	63.1	63.1	80	56.8	2	SE	0.03	4	SE	63.1	63.4	63.4	30.128	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:43 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/20/2012	11:44 PM	63.1	63.1	63.1	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/20/2012	11:45 PM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:46 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:47 PM	63.1	63.1	63	80	56.8	0	SE	0	1	SE	63.1	63.4	63.4	30.13	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:48 PM	63.1	63.1	63	80	56.8	1	SE	0.02	2	SE	63.1	63.4	63.4	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:49 PM	63	63.1	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.131	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:50 PM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.129	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:51 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/20/2012	11:52 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/20/2012	11:53 PM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.128	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/20/2012	11:54 PM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.129	0	0

Meteorological Data
Equity IRM

9/21/2012	1:14 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	3	SE	62.9	63.2	63.2	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:15 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	3	SE	62.9	63.2	63.2	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:16 AM	62.9	62.9	62.9	80	56.6	1	SE	0.02	2	SE	62.9	63.2	63.2	30.12	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:17 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.121	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:18 AM	62.9	62.9	62.9	80	56.6	0	SE	0	1	SE	62.9	63.2	63.2	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:19 AM	63	63	62.9	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:20 AM	63	63	62.9	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.124	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:21 AM	63	63	63	80	56.7	1	SE	0.02	3	SE	63	63.3	63.3	30.123	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	24	1	100	1
9/21/2012	1:22 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:23 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.122	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:24 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.119	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:25 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:26 AM	63	63	63	80	56.7	1	SE	0.02	2	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:27 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	23	1	100	1
9/21/2012	1:28 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.4	58	44.6	58	10.75	0.0762	22	1	95.7	1
9/21/2012	1:29 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:30 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:31 AM	63	63	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:32 AM	63	63.1	63	80	56.7	0	---	0	0	---	63	63.3	63.3	30.119	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:33 AM	63	63	63	80	56.7	0	SE	0	2	SE	63	63.3	63.3	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:34 AM	63	63.1	63	80	56.7	1	SE	0.02	1	SE	63	63.3	63.3	30.119	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:35 AM	63	63.1	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:36 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.118	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:37 AM	63	63	63	80	56.7	0	SE	0	1	SE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:38 AM	63	63	63	80	56.7	2	SE	0.03	3	ESE	63	63.3	63.3	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:39 AM	63.1	63.1	63	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.117	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:40 AM	63.1	63.1	63	80	56.8	0	ESE	0	1	ESE	63.1	63.4	63.4	30.12	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:41 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.122	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:42 AM	63.1	63.1	63	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:43 AM	63.1	63.1	63.1	80	56.8	2	ESE	0.03	2	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:44 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	3	ESE	63.1	63.4	63.4	30.123	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	22	1	95.7	1
9/21/2012	1:45 AM	63.1	63.1	63.1	80	56.8	1	ESE	0.02	2	ESE	63.1	63.4	63.4	30.124	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:46 AM	63.1	63.1	63.1	80	56.8	0	ESE	0	1	ESE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:47 AM	63.1	63.1	63.1	80	56.8	1	SE	0.02	3	SE	63.1	63.4	63.4	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:48 AM	63.1	63.1	63.1	79	56.5	1	SE	0.02	2	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	24	1	100	1
9/21/2012	1:49 AM	63.1	63.1	63.1	79	56.5	0	SE	0	1	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.6	58	44.8	58.2	10.75	0.0762	23	1	100	1
9/21/2012	1:50 AM	63.1	63.1	63.1	79	56.5	0	SE	0	1	SE	63.1	63.3	63.3	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:51 AM	63.2	63.2	63.1	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:52 AM	63.2	63.2	63.2	79	56.6	2	SE	0.03	4	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	22	1	95.7	1
9/21/2012	1:53 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:54 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:55 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:56 AM	63.2	63.2	63.2	79	56.6	1	SE	0.02	2	SE	63.2	63.5	63.5	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:57 AM	63.3	63.3	63.2	79	56.7	1	SE	0.02	1	SE	63.3	63.6	63.6	30.127	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	1:58 AM	63.2	63.3	63.2	79	56.6	1	SE	0.02	3	SE	63.2	63.5	63.5	30.126	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	1:59 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.125	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:00 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.124	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	2:01 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	1	SE	63.3	63.5	63.5	30.123	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:02 AM	63.3	63.4	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.123	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	24	1	100	1
9/21/2012	2:03 AM	63.4	63.4	63.3	79	56.8	1	SE	0.02	2	SE	63.4	63.7	63.7	30.121	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:04 AM	63.4	63.4	63.4	78	56.4	2	SE	0.03	4	SE	63.4	63.6	63.6	30.121	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0762	23	1	100	1
9/21/2012	2:05 AM	63.4	63.4	63.4	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0761	24	1	100	1
9/21/2012	2:06 AM	63.4	63.4	63.4	78	56.4	0	SE	0	1	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.7	58	44.9	58.3	10.75	0.0761	23	1	100	1
9/21/2012	2:07 AM	63.4	63.4	63.3	78	56.4	1	SE	0.02	3	SE	63.4	63.6	63.6	30.118	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:08 AM	63.3	63.4	63.3	78	56.3	3	SE	0.05	4	SE	63.3	63.5	63.5	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:09 AM	63.4	63.4	63.3	78	56.4	2	SE	0.03	4	SE	63.4	63.6	63.6	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:10 AM	63.4	63.4	63.3	78	56.4	1	SE	0.02	2	SE	63.4	63.6	63.6	30.117	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:11 AM	63.3	63.4	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:12 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:13 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:14 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.116	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:15 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:16 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:17 AM	63.3	63.3	63.3	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.114	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:18 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.113	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:19 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.113	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	24	1	100	1
9/21/2012	2:20 AM	63.3	63.3	63.2	78	56.3	2	SE	0.03	3	SE	63.3	63.5	63.5	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	21	1	91.3	1
9/21/2012	2:21 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:22 AM	63.2	63.2	63.2	78	56.2	0	SE	0	2	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:23 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.11	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:24 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:25 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.11	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:26 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	23	1	100	1
9/21/2012	2:27 AM	63.2	63.2	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	59.9	58	45.1	58.5	10.75	0.0761	22	1	95.7	1
9/21/2012	2:28 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:29 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:30 AM	63.2	63.2	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.111	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:31 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.109	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:32 AM	63.2	63.3	63.2	78	56.2	0	---	0	0	---	63.2	63.4	63.4	30.109	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:33 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:34 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:35 AM	63.2	63.3	63.2	78	56.2	0	SE	0	1	SE	63.2	63.4	63.4	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	21	1	91.3	1
9/21/2012	2:36 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:37 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:38 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	22	1	95.7	1
9/21/2012	2:39 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:40 AM	63.3	63.3	63.3	78	56.3	0	---	0	0	---	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:41 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:42 AM	63.3	63.3	63.3	78	56.3	0	---	0	0	---	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:43 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:44 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	ESE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:45 AM	63.3	63.3	63.3	78	56.3	1	ESE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:46 AM	63.3	63.3	63.3	78	56.3	0	ESE	0	1	ESE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:47 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.108	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:48 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	3	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:49 AM	63.3	63.3	63.3	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.107	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:50 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:51 AM	63.3	63.3	63.3	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	24	1	100	1
9/21/2012	2:52 AM	63.3	63.3	63.2	78	56.3	0	SE	0	1	SE	63.3	63.5	63.5	30.106	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:53 AM	63.2	63.3	63.2	78	56.2	1	SE	0.02	2	SE	63.2	63.4	63.4	30.104	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1
9/21/2012	2:54 AM	63.3	63.3	63.2	78	56.3	1	SE	0.02	2	SE	63.3	63.5	63.5	30.105	0	0	0.001	0	60	58	45.2	58.6	10.75	0.0761	23	1	100	1

Meteorological Data
Equity IRM

9/21/2012	4:14 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.094	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:15 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.093	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	23	1	100	1
9/21/2012	4:16 AM	62.1	62.1	62.1	79	55.5	0	---	0	0	---	62.1	62.2	62.2	30.094	0	0	0.002	0	59	59	44.7	57.6	10.95	0.0762	22	1	95.7	1
9/21/2012	4:17 AM	62	62.1	62	79	55.4	0	---	0	0	---	62	62.1	62.1	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	22	1	95.7	1
9/21/2012	4:18 AM	62	62.1	62	79	55.4	0	---	0	0	---	62	62.1	62.1	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:19 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	22	1	95.7	1
9/21/2012	4:20 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:21 AM	62	62	62	80	55.8	0	---	0	0	---	62	62.2	62.2	30.094	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:22 AM	62	62	62	80	55.8	0	SE	0	1	SE	62	62.2	62.2	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:23 AM	61.9	62	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.8	59	44.5	57.4	10.95	0.0762	23	1	100	1
9/21/2012	4:24 AM	61.9	61.9	61.9	79	55.3	0	---	0	0	---	61.9	62	62	30.092	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:25 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	24	1	100	1
9/21/2012	4:26 AM	61.9	61.9	61.8	79	55.3	0	---	0	0	---	61.9	62	62	30.093	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0762	23	1	100	1
9/21/2012	4:27 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	24	1	100	1
9/21/2012	4:28 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:29 AM	61.8	61.8	61.8	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	24	1	100	1
9/21/2012	4:30 AM	61.8	61.8	61.8	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:31 AM	61.8	61.8	61.7	80	55.6	0	---	0	0	---	61.8	62	62	30.096	0	0	0.002	0	58.7	59	44.4	57.3	10.95	0.0763	23	1	100	1
9/21/2012	4:32 AM	61.7	61.7	61.7	80	55.5	0	---	0	0	---	61.7	61.8	61.8	30.098	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	24	1	100	1
9/21/2012	4:33 AM	61.7	61.7	61.7	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.097	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:34 AM	61.7	61.7	61.6	80	55.5	0	SE	0	1	SE	61.7	61.8	61.8	30.097	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	24	1	100	1
9/21/2012	4:35 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.096	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:36 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.095	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:37 AM	61.6	61.6	61.6	79	55	0	SE	0	1	SE	61.6	61.6	61.6	30.094	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:38 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	58.5	59	44.2	57.1	10.95	0.0763	23	1	100	1
9/21/2012	4:39 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:40 AM	61.6	61.6	61.6	79	55	0	SE	0	1	SE	61.6	61.6	61.6	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	23	1	100	1
9/21/2012	4:41 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.093	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:42 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	23	1	100	1
9/21/2012	4:43 AM	61.7	61.7	61.7	79	55.1	0	SE	0	1	SE	61.7	61.8	61.8	30.092	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	22	1	95.7	1
9/21/2012	4:44 AM	61.8	61.8	61.7	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.093	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	24	1	100	1
9/21/2012	4:45 AM	61.8	61.8	61.7	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.091	0	0	0.002	0	58.4	59	44.1	57	10.95	0.0763	22	1	95.7	1
9/21/2012	4:46 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:47 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	22	1	95.7	1
9/21/2012	4:48 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:49 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:50 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.096	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:51 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:52 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.096	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	23	1	100	1
9/21/2012	4:53 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.2	59	43.9	56.8	10.95	0.0763	24	1	100	1
9/21/2012	4:54 AM	61.8	61.8	61.8	79	55.2	0	SE	0	1	SE	61.8	61.9	61.9	30.093	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:55 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:56 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.095	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	24	1	100	1
9/21/2012	4:57 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	4:58 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	24	1	100	1
9/21/2012	4:59 AM	61.8	61.8	61.8	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.094	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	5:00 AM	61.8	61.8	61.7	79	55.2	0	---	0	0	---	61.8	61.9	61.9	30.093	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0764	23	1	100	1
9/21/2012	5:01 AM	61.7	61.8	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.092	0	0	0.002	0	58.1	59	43.8	56.7	10.95	0.0763	24	1	100	1
9/21/2012	5:02 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.093	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:03 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:04 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:05 AM	61.7	61.7	61.7	79	55.1	0	---	0	0	---	61.7	61.8	61.8	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:06 AM	61.6	61.7	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	23	1	100	1
9/21/2012	5:07 AM	61.6	61.6	61.6	79	55	0	---	0	0	---	61.6	61.6	61.6	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:08 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	24	1	100	1
9/21/2012	5:09 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	22	1	95.7	1
9/21/2012	5:10 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.095	0	0	0.002	0	57.9	59	43.7	56.5	10.95	0.0764	24	1	100	1
9/21/2012	5:11 AM	61.6	61.6	61.6	80	55.4	0	---	0	0	---	61.6	61.7	61.7	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	21	1	91.3	1
9/21/2012	5:12 AM	61.5	61.6	61.5	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:13 AM	61.5	61.5	61.4	80	55.3	0	---	0	0	---	61.5	61.6	61.6	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:14 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.094	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:15 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.095	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:16 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.095	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	22	1	95.7	1
9/21/2012	5:17 AM	61.4	61.4	61.4	81	55.5	0	---	0	0	---	61.4	61.5	61.5	30.096	0	0	0.002	0	57.7	59	43.5	56.3	10.95	0.0764	23	1	100	1
9/21/2012	5:18 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:19 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.097	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	23	1	100	1
9/21/2012	5:20 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.097	0	0	0.003	0	57.7	59	43.5	56.3	10.95	0.0764	24	1	100	1
9/21/2012	5:21 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.098	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:22 AM	61.3	61.3	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.097	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0764	24	1	100	1
9/21/2012	5:23 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:24 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:25 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.099	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:26 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:27 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:28 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.102	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:29 AM	61.3	61.4	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:30 AM	61.3	61.4	61.3	80	55.1	0	SE	0	1	SE	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:31 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.101	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	23	1	100	1
9/21/2012	5:32 AM	61.3	61.3	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.6	59	43.4	56.2	10.95	0.0765	24	1	100	1
9/21/2012	5:33 AM	61.3	61.4	61.3	80	55.1	0	---	0	0	---	61.3	61.4	61.4	30.1	0	0	0.003	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:34 AM	61.4	61.4	61.3	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.099	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:35 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:36 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	22	1	95.7	1
9/21/2012	5:37 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:38 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	23	1	100	1
9/21/2012	5:39 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:40 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.102	0	0	0.002	0	57.4	60	43.6	56.1	11.1	0.0765	23	1	100	1
9/21/2012	5:41 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	22	1	95.7	1
9/21/2012	5:42 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	59	43.2	56	10.95	0.0765	24	1	100	1
9/21/2012	5:43 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.103	0	0	0.002	0	57.4	60	43.6	56.1	11.1	0.0765	22	1	95.7	1
9/21/2012	5:44 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.102	0	0	0.002	0	57.3	59	43.1	55.9	10.95	0.0765	24	1	100	1
9/21/2012	5:45 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:46 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:47 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	59	43.1	55.9	10.95	0.0765	23	1	100	1
9/21/2012	5:48 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:49 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:50 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.101	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:51 AM	61.4	61.4	61.4	80	55.2	0	SE	0	1	SE	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	24	1	100	1
9/21/2012	5:52 AM	61.4	61.4	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:53 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.099	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:54 AM	61.4	61.5	61.4	80	55.2	0	---	0	0	---	61.4	61.5	61.5	30.1	0	0	0.002	0	57.3	60	43.5	56	11.1	0.0765	23	1	100	1
9/21/2012	5:55 AM	61.5	61.5	61.4	80	55.3

Meteorological Data
Equity IRM

9/21/2012	7:14 AM	61.9	61.9	61.8	78	55	1	SE	0.02	3	SE	61.9	61.9	61.9	30.113	0	0	0.002	0	57	63	44.5	55.9	11.71	0.0765	23	1	100	1
9/21/2012	7:15 AM	61.9	62	61.9	78	55	1	SE	0.02	2	SE	61.9	61.9	61.9	30.114	0	0	0.002	0	57	63	44.5	55.9	11.71	0.0765	23	1	100	1
9/21/2012	7:16 AM	62	62	61.9	78	55.1	1	SE	0.02	2	SE	62	62	62	30.113	0	0	0.002	0	57	64	44.9	55.9	11.97	0.0765	24	1	100	1
9/21/2012	7:17 AM	62	62	62	78	55.1	1	SE	0.02	3	SE	62	62	62	30.114	0	0	0.002	0	57.1	66	45.8	56.1	12.41	0.0765	23	1	100	1
9/21/2012	7:18 AM	62.1	62.1	62	77	54.8	1	SE	0.02	3	SE	62.1	62.1	62.1	30.112	0	0	0.002	0	57.1	65	45.4	56.1	12.17	0.0765	24	1	100	1
9/21/2012	7:19 AM	62.1	62.1	62	77	54.8	1	SE	0.02	4	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.3	65	45.6	56.3	12.16	0.0765	23	1	100	1
9/21/2012	7:20 AM	62.1	62.1	62.1	77	54.8	0	SE	0	1	SE	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	24	1	100	1
9/21/2012	7:21 AM	62.1	62.1	62.1	77	54.8	0	---	0	0	---	62.1	62.1	62.1	30.113	0	0	0.002	0	57.4	64	45.3	56.3	11.95	0.0765	23	1	100	1
9/21/2012	7:22 AM	62.2	62.2	62.1	77	54.9	0	---	0	0	---	62.2	62.2	62.2	30.113	0	0	0.002	0	57.6	64	45.5	56.5	11.95	0.0764	22	1	95.7	1
9/21/2012	7:23 AM	62.2	62.2	62.1	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.112	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	24	1	100	1
9/21/2012	7:24 AM	62.2	62.2	62.2	77	54.9	1	SE	0.02	1	SE	62.2	62.2	62.2	30.114	0	0	0.002	0	57.7	64	45.6	56.6	11.94	0.0764	23	1	100	1
9/21/2012	7:25 AM	62.2	62.2	62.2	77	54.9	0	SE	0	1	SE	62.2	62.2	62.2	30.115	0	0	0.002	0	57.9	64	45.8	56.8	11.93	0.0764	24	1	100	1
9/21/2012	7:26 AM	62.3	62.3	62.2	77	55	1	SE	0.02	1	SE	62.3	62.3	62.3	30.116	0	0	0.002	0	58.1	68	47.6	57.2	12.83	0.0763	23	1	100	1
9/21/2012	7:27 AM	62.3	62.3	62.3	77	55	0	SE	0	2	SE	62.3	62.3	62.3	30.116	0	0	0.002	0	58.2	67	47.3	57.3	12.62	0.0763	23	1	100	1
9/21/2012	7:28 AM	62.4	62.4	62.3	77	55.1	0	SE	0	1	SE	62.4	62.4	62.4	30.115	0	0	0.002	0	58.4	67	47.5	57.5	12.61	0.0763	24	1	100	1
9/21/2012	7:29 AM	62.4	62.4	62.4	77	55.1	0	SE	0	1	SE	62.4	62.4	62.4	30.115	0	0	0.002	0	58.4	66	47.1	57.4	12.38	0.0763	23	1	100	1
9/21/2012	7:30 AM	62.5	62.5	62.4	77	55.2	1	SE	0.02	2	SE	62.5	62.5	62.5	30.115	0	0	0.002	0	58.5	66	47.2	57.6	12.38	0.0762	24	1	100	1
9/21/2012	7:31 AM	62.5	62.5	62.5	77	55.2	0	SE	0	2	SE	62.5	62.5	62.5	30.114	0	0	0.002	0	58.5	65	46.8	57.5	12.11	0.0763	23	1	100	1
9/21/2012	7:32 AM	62.6	62.6	62.5	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.116	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	24	1	100	1
9/21/2012	7:33 AM	62.6	62.6	62.5	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	23	1	100	1
9/21/2012	7:34 AM	62.6	62.6	62.6	76	54.9	1	SE	0.02	3	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	23	1	100	1
9/21/2012	7:35 AM	62.7	62.7	62.6	76	55	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	58.7	65	47	57.7	12.1	0.0762	24	1	100	1
9/21/2012	7:36 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.116	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:37 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	24	1	100	1
9/21/2012	7:38 AM	62.6	62.7	62.6	76	54.9	1	SE	0.02	2	SE	62.6	62.5	62.5	30.117	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:39 AM	62.6	62.7	62.6	76	54.9	0	SE	0	1	SE	62.6	62.5	62.5	30.115	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	23	1	100	1
9/21/2012	7:40 AM	62.6	62.7	62.6	77	55.3	0	SE	0	1	SE	62.6	62.6	62.6	30.114	0	0	0.002	0	58.8	65	47.1	57.8	12.1	0.0762	24	1	100	1
9/21/2012	7:41 AM	62.7	62.7	62.6	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.114	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:42 AM	62.6	62.7	62.6	77	55.3	0	---	0	0	---	62.6	62.6	62.6	30.113	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	24	1	100	1
9/21/2012	7:43 AM	62.7	62.7	62.6	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:44 AM	62.7	62.7	62.7	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	24	1	100	1
9/21/2012	7:45 AM	62.7	62.7	62.6	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	22	1	95.7	1
9/21/2012	7:46 AM	62.7	62.7	62.7	77	55.4	1	SE	0.02	2	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:47 AM	62.7	62.7	62.7	77	55.4	1	SE	0.02	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59	65	47.2	58	12.09	0.0762	23	1	100	1
9/21/2012	7:48 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.114	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	22	1	95.7	1
9/21/2012	7:49 AM	62.7	62.7	62.7	77	55.4	0	---	0	0	---	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	24	1	100	1
9/21/2012	7:50 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	22	1	95.7	1
9/21/2012	7:51 AM	62.7	62.7	62.7	77	55.4	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:52 AM	62.7	62.7	62.7	76	55	0	SE	0	1	SE	62.7	62.7	62.7	30.115	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:53 AM	62.7	62.7	62.7	76	55	1	SE	0.02	2	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59.1	65	47.3	58.1	12.09	0.0762	23	1	100	1
9/21/2012	7:54 AM	62.7	62.8	62.7	76	55	2	SE	0.03	3	SE	62.7	62.7	62.7	30.116	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:55 AM	62.8	62.8	62.7	76	55.1	1	SE	0.02	2	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:56 AM	62.8	62.8	62.7	76	55.1	1	SE	0.02	3	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	22	1	95.7	1
9/21/2012	7:57 AM	62.8	62.8	62.8	76	55.1	1	SE	0.02	3	SE	62.8	62.8	62.8	30.117	0	0	0.002	0	59.3	65	47.5	58.3	12.08	0.0761	23	1	100	1
9/21/2012	7:58 AM	62.9	62.9	62.8	76	55.2	1	ESE	0.02	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	7:59 AM	62.9	62.9	62.8	76	55.2	1	ESE	0.02	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	8:00 AM	62.9	62.9	62.9	76	55.2	2	ESE	0.03	4	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.4	66	48	58.5	12.36	0.0761	23	1	100	1
9/21/2012	8:01 AM	62.9	62.9	62.9	76	55.2	2	ESE	0.03	3	ESE	62.9	62.9	62.9	30.118	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	24	1	100	1
9/21/2012	8:02 AM	63	63	62.9	75	54.9	2	ESE	0.03	3	ESE	63	62.9	62.9	30.117	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	23	1	100	1
9/21/2012	8:03 AM	63	63	62.9	75	54.9	2	ESE	0.03	3	ESE	63	62.9	62.9	30.118	0	0	0.001	0	59.6	66	48.2	58.7	12.36	0.0761	23	1	100	1
9/21/2012	8:04 AM	63	63	63	75	54.9	0	ESE	0	2	ESE	63	62.9	62.9	30.118	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	24	1	100	1
9/21/2012	8:05 AM	63	63	63	75	54.9	0	ESE	0	2	ESE	63	62.9	62.9	30.119	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	23	1	100	1
9/21/2012	8:06 AM	63.1	63.1	63	75	55	1	ESE	0.02	2	ESE	63.1	63	63	30.117	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	24	1	100	1
9/21/2012	8:07 AM	63.1	63.1	63	75	55	1	ESE	0.02	2	ESE	63.1	63	63	30.119	0	0	0.001	0	59.7	66	48.3	58.8	12.36	0.076	23	1	100	1
9/21/2012	8:08 AM	63.1	63.1	63.1	75	55	1	ESE	0.02	3	ESE	63.1	63	63	30.119	0	0	0.001	0	59.9	66	48.5	59.1	12.35	0.076	23	1	100	1
9/21/2012	8:09 AM	63.2	63.2	63.2	75	55.1	1	ESE	0.02	3	ESE	63.2	63.1	63.1	30.12	0	0	0.001	0	60	66	48.6	59.2	12.35	0.076	24	1	100	1
9/21/2012	8:10 AM	63.2	63.2	63.2	75	55.1	0	ESE	0	1	ESE	63.2	63.1	63.1	30.121	0	0	0.001	0	60.2	66	48.8	59.4	12.34	0.076	23	1	100	1
9/21/2012	8:11 AM	63.3	63.3	63.2	75	55.2	0	ESE	0	1	ESE	63.3	63.3	63.3	30.118	0	0	0.001	0	60.3	66	48.9	59.5	12.34	0.0759	24	1	100	1
9/21/2012	8:12 AM	63.4	63.4	63.3	75	55.3	1	ESE	0.02	3	ESE	63.4	63.4	63.4	30.118	0	0	0.001	0	60.5	66	49.1	59.7	12.33	0.0759	23	1	100	1
9/21/2012	8:13 AM	63.4	63.4	63.4	75	55.3	1	ESE	0.02	2	ESE	63.4	63.4	63.4	30.117	0	0	0.001	0	60.5	65	48.7	59.7	12.04	0.0759	24	1	100	1
9/21/2012	8:14 AM	63.6	63.6	63.5	74	55.2	1	ESE	0.02	3	ESE	63.6	63.6	63.6	30.118	0	0	0.001	0	60.7	65	48.9	59.9	12.04	0.0759	23	1	100	1
9/21/2012	8:15 AM	63.7	63.7	63.6	74	55.3	1	ESE	0.02	2	ESE	63.7	63.7	63.7	30.118	0	0	0.001	0	60.8	65	49	60	12.03	0.0759	23	1	100	1
9/21/2012	8:16 AM	63.9	63.9	63.7	74	55.4	2	ESE	0.03	3	ESE	63.9	63.9	63.9	30.116	0	0	0.001	0	61	65	49.1	60.2	12.03	0.0758	24	1	100	1
9/21/2012	8:17 AM	64	64	63.9	73	55.2	3	ESE	0.05	4	ESE	64	64	64	30.119	0	0	0.001	0	61.1	65	49.2	60.3	12.03	0.0758	23	1	100	1
9/21/2012	8:18 AM	64	64	64	73	55.2	1	ESE	0.02	3	ESE	64	64	64	30.117	0	0	0.001	0	61.3	65	49.4	60.5	12.02	0.0758	24	1	100	1
9/21/2012	8:19 AM	64.1	64.1	64	73	55.3	1	ESE	0.02	3	ESE	64.1	64.1	64.1	30.118	0	0	0.001	0	61.4	65	49.5	60.6	12.02	0.0758	23	1	100	1
9/21/2012	8:20 AM	64.3	64.3	64.1	72	55.1	2	ESE	0.03	3	ESE	64.3	64.3	64.3	30.116	0	0	0	0	61.6	65	49.7	60.9	12.02	0.0757	23	1	100	1
9/21/2012	8:21 AM	64.3	64.3	64.3	72	55.1	2	ESE	0.03	3	ESE	64.3	64.3	64.3	30.118	0	0	0	0	61.8	65	49.9	61.1	12.01	0.0757	24	1	100	1
9/21/2012	8:22 AM	64.4	64.4	64.4	72	55.2	3	ESE	0.05	3	ESE	64.4	64.4	64.4	30.118	0	0	0	0	61.9	65	50	61.2	12.01	0.0757	23	1	100	1
9/21/2012	8:23 AM	64.4	64.4	64.4	71	54.8	1	ESE	0.02	3	ESE	64.4	64.3	64.3	30.12	0	0	0	0	62.1	65	50.2	61.4	12.01	0.0756	24	1	100	1
9/21/2012	8:24 AM	64.5	64.5	64.4	72	55.3	1	ESE	0.02	2	ESE	64.5	64.5	64.5	30.12	0	0	0	0	62.2	65	50.3	61.5	12.01	0.0756	23	1	100	1
9/21/2012	8:25 AM	64.5	64.5	64.5	71	54.9	1	ESE	0.02	3	ESE	64.5	64.5	64.5	30.114	0	0	0	0	62.4	65	50.5	61.7	12	0.0756	24	1	100	1
9/21/2012	8:26 AM	64.5	64.5	64.5	71	54.9	2	ESE	0.03	3	ESE	64.5	64.5	64.5	30.115	0	0	0	0	62.5	65	50.6	61.8	12	0.0756	23	1	100	1
9/21/2012	8:27 AM	64.5	64.5	64.4	71	54.9	1	ESE	0.02	2	ESE	64.5	64.5	64.5	30.113	0	0	0	0	62.9	64	50.5	62.2	11.79	0.0755	23	1	100	1
9/21/2012	8:28 AM	64.4	64.5	64.4	71	54.8	2	E	0.03	5	E	64.4	64.3	64.3	30.114	0	0	0	0	63	64	50.6	62.3	11.79	0.0755	24	1	100	1
9/21/2012	8:29 AM	64.5	64.5	64.4	71	54.9	1	E	0.02	2	E	64.5	64.5	64.5	30.115	0	0	0	0	63.2	64	50.8	62.5	11.79	0.0754	23	1	100	1
9/21/2012	8:30 AM	64.5	64.5	64.5	71	54.9	2	ESE	0.03	4	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.3	64	50.9	62.6	11.78	0.0754	24	1	100	1
9/21/2012	8:31 AM	64.5	64.5	64.5	71	54.9	1	ESE	0.02	3	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.3	64	50.9	62.6	11.78	0.0754	23	1	100	1
9/21/2012	8:32 AM	64.4	64.5	64.4	71	54.8	1	ESE	0.02	2	ESE	64.4	64.3	64.3	30.114	0	0	0	0	63.5	64	51.1	62.9	11.78	0.0754	23	1	100	1
9/21/2012	8:33 AM	64.5	64.5	64.5	71	54.9	1	E	0.02	2	E	64.5	64.5	64.5	30.116	0	0	0	0	63.6	64	51.2	63	11.78	0.0754	23	1	100	1
9/21/2012	8:34 AM	64.5	64.5	64.5	71	54.9	1	E	0.02	4	ESE	64.5	64.5	64.5	30.115	0	0	0	0	63.8	64	51.4	63.2	11.77	0.0753	23	1	100	1
9/21/2012	8:35 AM	64.5	64.5	64.5	71	54.9	3	SE	0.05	5	SE	64.5	64.5	64.5	30.116	0	0	0	0	63.8	64	51.4	63.2	11.77	0.0753	24	1	100	1
9/21/2012	8:36 AM	64.5	64.5	64.5	71	54.9	2	SE	0.03	4	SE	64.5	64.5	64.5	30.115	0	0	0	0	64	64	51.6	63.4	11.77	0.0753	23	1	100	1
9/21/2012	8:37 AM	64.6	64.6	64.5	71	55	3	SE	0.05	5	E	64.6	64.6	64.6	30.115	0	0	0	0	64.1	64	51.7	63.5	11.77	0.0753	24	1	100	1
9/21/2012	8:38 AM	64.6	64.6	64.6	71	55	2	E	0.03	3	E	64.6	64.6	64.6	30.114	0	0	0	0	64.1	64	51.7	63.5	11.77	0.0753	23	1	100	1
9/21/2012	8:39 AM	64.6	64.7	64.6	70	54.6	3	ESE	0.05	7	ESE	64.6	64.5	64.5	30.114	0	0	0	0	64.3	64	51.9	63.8	11.76	0.0752	22	1	95.7	1
9/21/2012	8:40 AM	64.7	64.7	64.7	70	54.7	3	ESE	0.05	7	ESE	64.7	64.6	64.6	30.114	0	0	0	0	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/21/2012	8:41 AM	64.7	64.7	64.7	70	54.7	3	E	0.05	6	E	64.7	64.6	64.6	30.115	0	0	0	0	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/21/2012	8:42 AM	64.7	64.7	64.7	70	54.7	1	E	0.02	3	E	64.7	64.6	64.6	30.116	0	0	0	0	64.6	63	51.7	64	11.65	0.0752	23	1	100	1
9/21/2012	8:43 AM	64.7	64.7	64.7	70	54.7	3	E	0.05	5	E	64.7	64.6	64.6	30.115	0	0	0	0	64.6	63	51.7	64	11.65	0.0752	23	1	100	1
9/21/2012	8:44 AM	64.7	64.7	64.7	70	54.7	2	E	0.03	3	E	64.7	64.6	64.6	30.116	0	0	0	0	64.8	63	51.9	64.3	11.65	0.0752	22	1	95.7	1
9/21/2012	8:45 AM	64.7	64.7	64.6	70	54.7	3	E	0.05	5	E	64.7	64.6	64.6	30.116	0	0	0	0	64.8	63	51.9	64.3	11.65	0.0752	24	1	100	1
9/21/2012	8:46 AM	64.7	64.7	64.7	70	54.7	2	ESE	0.03	3	ESE	64.7	64.6	64.6	30.115	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	22	1	95.7	1
9/21/2012	8:47 AM	64.7	64.7	64.7	70	54.7	2	E	0.03	5	E	64.7	64.6	64.6	30.114	0	0	0	0	64.9	63	52	64.4	11.65	0.0752	23	1	100	1
9/21/2012	8:48 AM	64.8	64.8	64.7	70	54.8	2	E	0.03	3	E	64.8	64.8	64.8	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	23	1	100	1
9/21/2012	8:49 AM	64.8	64.8	64.8	69	54.4	3	E	0.05	6	E	64.8	64.7	64.7	30.114	0	0	0	0	65.1	63	52.2	64.6	11.65	0.0751	22	1	95.7	1
9/21/2012	8:50 AM	64.9	64.9	64.8	70	54.9	2	E	0.03	5	E	64.9	64.9	64.9	30.117	0	0	0	0	65.3	63	52.4	64.8	11.64	0.0751	24	1	100	1
9/21/2012	8:51 AM	64.9	64.9	64.9	69	54.5	2	E	0.03	3	ESE	64.9	64.8	64.8	30.118	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	22	1	95.7	1
9/21/2012	8:52 AM	65	65	64.9	69	54.6	2	ESE	0.03	3	ESE	65	64.9	64.9	30.117	0	0	0	0	65.4	63	52.5	64.9	11.64	0.0751	24	1	100	1
9/21/2012	8:53 AM	65.1	65.1	65	69	54.7	3	ESE	0.05	4	ESE	65.1	65.1	65.1	30.115	0	0	0	0	65.6	63	52.7	65.2	11.64	0.075	23	1	100	1
9/21/2012	8:54 AM	65.2	65.2	65.1	69	54.8	3	ESE	0.05	4	ESE	65.2	65.2	65.2	30.117	0	0	0	0	65.8	63	52.9	65.4	11.63	0.075	23	1	100	1
9/21/2012

Meteorological Data
Equity IRM

9/21/2012	10:14 AM	69.2	69.2	69.2	58	53.8	4	SE	0.07	6	SE	69.2	68.4	68.4	30.114	0	0	0	0.003	75.9	53	57.5	76.1	9.65	0.0734	24	1	100	1
9/21/2012	10:15 AM	69.2	69.2	69.1	58	53.8	3	SSE	0.05	7	SSE	69.2	68.4	68.4	30.115	0	0	0	0.003	76.1	53	57.7	76.3	9.65	0.0734	23	1	100	1
9/21/2012	10:16 AM	69.1	69.2	69.1	59	54.2	4	SSE	0.07	7	SSW	69.1	68.4	68.4	30.114	0	0	0	0.003	76.1	53	57.7	76.3	9.65	0.0734	24	1	100	1
9/21/2012	10:17 AM	69.2	69.2	69.1	59	54.3	4	SSE	0.07	6	SSW	69.2	68.5	68.5	30.113	0	0	0	0.003	76.3	53	57.9	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:18 AM	69.2	69.2	69.1	59	54.3	2	SE	0.03	4	SSE	69.2	68.5	68.5	30.111	0	0	0	0.003	76.3	53	57.9	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:19 AM	69.2	69.2	69.2	59	54.3	2	SE	0.03	4	SE	69.2	68.5	68.5	30.112	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:20 AM	69.3	69.3	69.2	59	54.4	1	SE	0.02	2	SE	69.3	68.6	68.6	30.111	0	0	0	0.003	76.4	53	58	76.5	9.65	0.0733	23	1	100	1
9/21/2012	10:21 AM	69.5	69.5	69.4	59	54.5	2	ESE	0.03	4	ESE	69.5	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	23	1	100	1
9/21/2012	10:22 AM	69.6	69.6	69.6	58	54.2	4	SSE	0.07	6	SSE	69.6	68.7	68.7	30.109	0	0	0	0.003	76.6	52	57.7	76.6	9.52	0.0733	22	1	95.7	1
9/21/2012	10:23 AM	69.6	69.6	69.6	58	54.2	3	SE	0.05	7	SE	69.6	68.7	68.7	30.111	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0733	24	1	100	1
9/21/2012	10:24 AM	69.7	69.7	69.6	58	54.3	1	SE	0.02	2	SE	69.7	68.8	68.8	30.11	0	0	0	0.003	76.8	52	57.8	76.8	9.51	0.0732	22	1	95.7	1
9/21/2012	10:25 AM	69.8	69.8	69.7	58	54.4	1	SE	0.02	2	SE	69.8	68.8	68.8	30.112	0	0	0	0.003	77	52	58	77	9.51	0.0732	23	1	100	1
9/21/2012	10:26 AM	69.9	69.9	69.8	57	54	2	SE	0.03	3	SE	69.9	68.8	68.8	30.111	0	0	0	0.003	77	51	57.5	76.9	9.35	0.0732	23	1	100	1
9/21/2012	10:27 AM	69.9	69.9	69.9	58	54.4	2	SE	0.03	5	SE	69.9	68.9	68.9	30.112	0	0	0	0.003	77.2	51	57.7	77.1	9.35	0.0732	23	1	100	1
9/21/2012	10:28 AM	69.9	69.9	69.9	58	54.4	2	SE	0.03	3	SE	69.9	68.9	68.9	30.11	0	0	0	0.003	77.2	51	57.7	77.1	9.35	0.0732	23	1	100	1
9/21/2012	10:29 AM	69.9	69.9	69.9	58	54.4	2	ESE	0.03	4	ESE	69.9	68.9	68.9	30.113	0	0	0	0.003	77.3	51	57.8	77.3	9.35	0.0732	23	1	100	1
9/21/2012	10:30 AM	70	70	69.9	58	54.5	2	ESE	0.03	3	ESE	70	69	69	30.113	0	0	0	0.003	77.3	51	57.8	77.3	9.35	0.0732	22	1	95.7	1
9/21/2012	10:31 AM	70.1	70.1	70	58	54.6	1	ESE	0.02	3	ESE	70.1	69.1	69.1	30.111	0	0	0	0.004	77.5	51	57.9	77.5	9.35	0.0732	23	1	100	1
9/21/2012	10:32 AM	70.1	70.1	70.1	58	54.6	2	ESE	0.03	4	ESE	70.1	69.1	69.1	30.113	0	0	0	0.004	77.5	51	57.9	77.5	9.35	0.0732	23	1	100	1
9/21/2012	10:33 AM	70.1	70.1	70.1	57	54.2	1	ESE	0.02	2	ESE	70.1	69	69	30.112	0	0	0	0.004	77.7	51	58.1	77.7	9.35	0.0731	23	1	100	1
9/21/2012	10:34 AM	70.2	70.2	70.1	58	54.7	3	SSE	0.05	7	SSE	70.2	69.3	69.3	30.113	0	0	0	0.004	77.7	51	58.1	77.7	9.35	0.0731	23	1	100	1
9/21/2012	10:35 AM	70.2	70.2	70.2	57	54.2	4	SSE	0.07	8	SSE	70.2	69.2	69.2	30.112	0	0	0	0.004	77.9	51	58.3	78	9.35	0.0731	23	1	100	1
9/21/2012	10:36 AM	70.1	70.2	70.1	57	54.2	4	SSE	0.07	6	SSE	70.1	69	69	30.113	0	0	0	0.004	77.9	51	58.3	78	9.35	0.0731	24	1	100	1
9/21/2012	10:37 AM	70.1	70.1	70.1	57	54.2	3	SSE	0.05	5	SE	70.1	69	69	30.111	0	0	0	0.004	78	51	58.4	78.1	9.35	0.0731	23	1	100	1
9/21/2012	10:38 AM	70	70.1	70	57	54.1	3	SSE	0.05	5	SSE	70	68.9	68.9	30.11	0	0	0	0.003	78.2	51	58.6	78.3	9.35	0.073	24	1	100	1
9/21/2012	10:39 AM	69.9	70	69.9	59	54.9	2	E	0.03	5	E	69.9	69	69	30.111	0	0	0	0.003	78.2	50	58	78.2	9.19	0.0731	23	1	100	1
9/21/2012	10:40 AM	69.8	69.9	69.8	57	53.9	1	ESE	0.02	3	ESE	69.8	68.8	68.8	30.112	0	0	0	0.003	78.4	50	58.2	78.5	9.18	0.073	24	1	100	1
9/21/2012	10:41 AM	69.8	69.8	69.8	58	54.4	3	E	0.05	5	E	69.8	68.8	68.8	30.111	0	0	0	0.003	78.4	50	58.2	78.5	9.18	0.073	23	1	100	1
9/21/2012	10:42 AM	69.8	69.8	69.8	58	54.4	4	SSE	0.07	6	SSE	69.8	68.8	68.8	30.113	0	0	0	0.003	78.6	50	58.4	78.7	9.18	0.073	23	1	100	1
9/21/2012	10:43 AM	69.7	69.8	69.7	58	54.3	1	SSE	0.02	3	SSE	69.7	68.8	68.8	30.111	0	0	0	0.003	78.6	50	58.4	78.7	9.18	0.073	24	1	100	1
9/21/2012	10:44 AM	69.6	69.7	69.6	57	53.7	1	SSE	0.02	4	SSE	69.6	68.6	68.6	30.108	0	0	0	0.003	78.6	49	57.8	78.6	8.98	0.073	23	1	100	1
9/21/2012	10:45 AM	69.6	69.6	69.6	59	54.6	3	SSE	0.05	5	SSE	69.6	68.8	68.8	30.108	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	24	1	100	1
9/21/2012	10:46 AM	69.6	69.6	69.6	59	54.6	4	S	0.07	6	S	69.6	68.8	68.8	30.108	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	23	1	100	1
9/21/2012	10:47 AM	69.6	69.6	69.5	58	54.2	2	S	0.03	4	S	69.6	68.7	68.7	30.107	0	0	0	0.003	78.8	49	58	78.9	8.97	0.073	23	1	100	1
9/21/2012	10:48 AM	69.5	69.6	69.5	58	54.1	3	SSE	0.05	4	SSE	69.5	68.6	68.6	30.107	0	0	0	0.003	79	49	58.2	79.1	8.97	0.0729	24	1	100	1
9/21/2012	10:49 AM	69.5	69.5	69.5	59	54.5	3	SSE	0.05	6	SSE	69.5	68.7	68.7	30.108	0	0	0	0.003	79	49	58.2	79.1	8.97	0.0729	23	1	100	1
9/21/2012	10:50 AM	69.5	69.5	69.5	58	54.1	2	SSE	0.03	5	SSE	69.5	68.6	68.6	30.11	0	0	0	0.003	79	48	57.6	79	8.87	0.073	24	1	100	1
9/21/2012	10:51 AM	69.7	69.7	69.6	58	54.3	4	SSE	0.07	6	SSE	69.7	68.8	68.8	30.109	0	0	0	0.003	79.2	48	57.8	79.2	8.87	0.0729	23	1	100	1
9/21/2012	10:52 AM	69.7	69.7	69.7	58	54.3	3	SE	0.05	5	SSE	69.7	68.8	68.8	30.111	0	0	0	0.003	79.2	48	57.8	79.2	8.87	0.0729	24	1	100	1
9/21/2012	10:53 AM	69.8	69.8	69.7	58	54.4	0	SE	0	1	SE	69.8	68.8	68.8	30.108	0	0	0	0.003	79.2	49	58.4	79.3	8.97	0.0729	23	1	100	1
9/21/2012	10:54 AM	69.9	69.9	69.8	58	54.4	2	SE	0.03	6	SE	69.9	68.9	68.9	30.108	0	0	0	0.003	79.3	48	57.9	79.3	8.86	0.0729	23	1	100	1
9/21/2012	10:55 AM	69.9	69.9	69.9	57	54	4	SSE	0.07	6	SSE	69.9	68.8	68.8	30.108	0	0	0	0.003	79.3	48	57.9	79.3	8.86	0.0729	24	1	100	1
9/21/2012	10:56 AM	70	70	69.9	57	54.1	2	SE	0.03	4	SE	70	68.9	68.9	30.109	0	0	0	0.003	79.5	48	58.1	79.4	8.86	0.0729	23	1	100	1
9/21/2012	10:57 AM	70.1	70.1	70.1	57	54.2	4	SE	0.07	6	SE	70.1	69	69	30.11	0	0	0	0.004	79.5	48	58.1	79.4	8.86	0.0729	24	1	100	1
9/21/2012	10:58 AM	70.2	70.2	70.2	57	54.2	4	SE	0.07	6	SE	70.2	69.2	69.2	30.107	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	23	1	100	1
9/21/2012	10:59 AM	70.3	70.3	70.3	57	54.3	3	SE	0.05	5	SE	70.3	69.3	69.3	30.109	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	23	1	100	1
9/21/2012	11:00 AM	70.4	70.4	70.3	57	54.4	2	SE	0.03	4	SE	70.4	69.4	69.4	30.107	0	0	0	0.004	79.7	48	58.3	79.6	8.86	0.0728	24	1	100	1
9/21/2012	11:01 AM	70.4	70.4	70.4	56	54	2	SE	0.03	4	SE	70.4	69.3	69.3	30.107	0	0	0	0.004	79.9	48	58.5	79.8	8.85	0.0728	23	1	100	1
9/21/2012	11:02 AM	70.4	70.4	70.4	57	54.4	2	ESE	0.03	4	SE	70.4	69.4	69.4	30.107	0	0	0	0.004	79.9	47	57.9	79.7	8.65	0.0728	24	1	100	1
9/21/2012	11:03 AM	70.5	70.5	70.4	57	54.5	2	SE	0.03	4	SE	70.5	69.5	69.5	30.108	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	23	1	100	1
9/21/2012	11:04 AM	70.6	70.6	70.5	56	54.1	2	SE	0.03	5	ESE	70.6	69.6	69.6	30.104	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	24	1	100	1
9/21/2012	11:05 AM	70.6	70.6	70.6	56	54.1	0	ESE	0	2	ESE	70.6	69.6	69.6	30.104	0	0	0	0.004	80.1	47	58	79.9	8.65	0.0728	23	1	100	1
9/21/2012	11:06 AM	70.8	70.8	70.7	58	55.3	1	ESE	0.02	3	ESE	70.8	70	70	30.103	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:07 AM	70.8	70.8	70.8	57	54.8	2	ESE	0.03	4	SE	70.8	69.9	69.9	30.104	0	0	0	0.004	80.3	46	57.6	80	8.45	0.0728	23	1	100	1
9/21/2012	11:08 AM	70.8	70.9	70.8	56	54.3	4	S	0.07	7	SSW	70.8	69.8	69.8	30.103	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:09 AM	70.9	70.9	70.9	56	54.4	4	SSE	0.07	7	SSE	70.9	70	70	30.102	0	0	0	0.004	80.3	47	58.2	80.1	8.64	0.0727	23	1	100	1
9/21/2012	11:10 AM	70.9	70.9	70.9	56	54.4	3	SSE	0.05	5	S	70.9	70	70	30.103	0	0	0	0.004	80.5	47	58.4	80.3	8.64	0.0727	23	1	100	1
9/21/2012	11:11 AM	70.9	70.9	70.9	56	54.4	2	SSE	0.03	4	SSE	70.9	70	70	30.103	0	0	0	0.004	80.5	47	58.4	80.3	8.64	0.0727	22	1	95.7	1
9/21/2012	11:12 AM	70.9	70.9	70.9	55	53.9	4	S	0.07	6	S	70.9	69.9	69.9	30.101	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	24	1	100	1
9/21/2012	11:13 AM	70.7	70.9	70.7	56	54.2	3	SSW	0.05	5	SSW	70.7	69.7	69.7	30.1	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	22	1	95.7	1
9/21/2012	11:14 AM	70.7	70.7	70.7	57	54.7	3	S	0.05	5	SSW	70.7	69.8	69.8	30.1	0	0	0	0.004	80.6	47	58.5	80.4	8.64	0.0727	23	1	100	1
9/21/2012	11:15 AM	70.8	70.8	70.7	56	54.3	2	SSE	0.03	4	SSE	70.8	69.8	69.8	30.1	0	0	0	0.004	80.8	47	58.7	80.6	8.63	0.0726	23	1	100	1
9/21/2012	11:16 AM	71	71	70.8	57	55	2	SSE	0.03	3	SSE	71	70.2	70.2	30.101	0	0	0	0.004	80.8	46	58.1	80.5	8.45	0.0727	23	1	100	1
9/21/2012	11:17 AM	71	71	71	56	54.5	2	SSE	0.03	3	SSE	71	70.1	70.1	30.101	0	0	0	0.004	80.8	47	58.7	80.6	8.63	0.0726	23	1	100	1
9/21/2012	11:18 AM	71	71.1	71	56	54.5	2	SSE	0.03	3	SSE	71	70.1	70.1	30.099	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	22	1	95.7	1
9/21/2012	11:19 AM	71.2	71.2	71.1	55	54.2	2	SE	0.03	3	SE	71.2	70.3	70.3	30.1	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	24	1	100	1
9/21/2012	11:20 AM	71.3	71.3	71.2	56	54.8	2	SE	0.03	4	SE	71.3	70.5	70.5	30.099	0	0	0	0.004	81	46	58.3	80.7	8.45	0.0726	23	1	100	1
9/21/2012	11:21 AM	71.3	71.4	71.3	55	54.3	3	SSE	0.05	5	SSE	71.3	70.5	70.5	30.099	0	0	0	0.004	81.2	46	58.5	81	8.45	0.0726	24	1	100	1
9/21/2012	11:22 AM	71.3	71.3	71.3	55	54.3	1	SE	0.02	2	SE	71.3	70.5	70.5	30.099	0	0	0	0.004	81.2	46	58.5	81	8.45	0.0726	23	1	100	1
9/21/2012	11:23 AM	71.3	71.3	71.3	54	53.8	1	SE	0.02	2	SE	71.3	70.4	70.4	30.1	0	0	0	0.004	81.2	45	57.8	80.9	8.33	0.0726	23	1	100	1
9/21/2012	11:24 AM	71.3	71.3	71.3	55	54.3	0	SE	0	2	SE	71.3	70.5	70.5	30.097	0	0	0	0.004	81.2	45	57.8	80.9	8.33	0.0726	24	1	100	1
9/21/2012	11:25 AM	71.5	71.5	71.3	56	55	3	SE	0.05	8	SE	71.5	70.8	70.8	30.099	0	0	0	0.005	81.2	45	57.8	80.9	8.33	0.0726	23	1	100	1
9/21/2012	11:26 AM	71.6	71.6	71.5	55	54.6	2	SE	0.03	4	SE	71.6	70.9	70.9	30.099	0	0	0	0.005	81.4	46	58.6	81.2	8.45	0.0726	24	1	100	1
9/21/2012	11:27 AM	71.6	71.6	71.6	54	54.1	3	SE	0.05	4	SE	71.6	70.8	70.8	30.097	0	0	0	0.005	81.4	46	58.6	81.2	8.45	0.0726	23	1	100	1
9/21/2012	11:28 AM	71.5	71.6	71.5	54	54	4	SE	0.07	6	SE	71.5	70.7	70.7	30.098	0	0	0	0.005	81.4	45	58	81.1	8.32	0.0726	24	1	100	1
9/21/2012	11:29 AM	71.5	71.6	71.5	54	54	2	SE	0.03	5	SE	71.5	70.7	70.7	30.096	0	0	0	0.005	81.6	46	58.8	81.5	8.45	0.0725	23	1	100	1
9/21/2012	11:30 AM	71.5	71.5	71.5	55	54.5	1	SE	0.02	2	SE	71.5	70.8	70.8	30.096	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0726	22	1	95.7	1
9/21/2012	11:31 AM	71.5	71.6	71.5	55	54.5	0	SE	0	1	SE	71.5	70.8	70.8	30.094	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0725	24	1	100	1
9/21/2012	11:32 AM	71.6	71.6	71.5	55	54.6	0	SE	0	1	SE	71.6	70.9	70.9	30.093	0	0	0	0.005	81.6	45	58.2	81.4	8.32	0.0725	22	1	95.7	1
9/21/2012	11:33 AM	71.6	71.7	71.6	54	54.1	5	SSE	0.08	8	SSE	71.6	70.8	70.8	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	24	1	100	1
9/21/2012	11:34 AM	71.6	71.6	71.6	54	54.1	3	SSE	0.05	6	SSE	71.6	70.8	70.8	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	23	1	100	1
9/21/2012	11:35 AM	71.6	71.6	71.6	55	54.6	2	SSE	0.03	5	SSE	71.6	70.9	70.9	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	23	1	100	1
9/21/2012	11:36 AM	71.7	71.7	71.6	55	54.7	0	SSE	0	2	SSE	71.7	71	71	30.094	0	0	0	0.005	81.8	45	58.4	81.6	8.31	0.0725	24	1	100	1
9/21/2012	11:37 AM	71.7	71.7	71.6	55	54.7	0	SSE	0	2	SSE	71.7	71	71	30.093	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	23	1	100	1
9/21/2012	11:38 AM	71.9	71.9	71.7	54	54.3	4	SSE	0.07	8	S	71.9	71.3	71.3	30.094	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	24	1	100	1
9/21/2012	11:39 AM	71.9	71.9	71.9	54	54.3	4	SSE	0.07	6	SSE	71.9	71.3	71.3	30.093	0	0	0	0.005	82	45	58.6	81.9	8.31	0.0725	23	1	100	1
9/21/2012	11:40 AM	71.9	72	71.9	54	54.3	4	SSE	0.07	7	SSE	71.9	71.3	71.3	30.092	0	0	0	0.005	82.1	45	58.7	82.1	8.31	0.0725	23	1	100	1
9/21/2012	11:41 AM	72	72	71.9	54	54.4	2	ESE	0.03	6	SSE	72	71.4	71.4	30.094	0	0	0	0.005	82.1	45	58.7	82.1	8.31	0.0725	24	1	100	1
9/21/2012	11:42 AM	72	72	72	55	54.9	3	SE	0.05	5	SE	72	71.5	71.5	30.094	0	0	0	0.005	82.1	44	58	81.9	8.15	0.0725	23	1	100	1
9/21/2012	11:43 AM	72.1	72.1	72	55	55	3	SSE	0.05	6	SSE	72.1	71.6	71.6	30.093	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0724	24	1	100	1
9/21/2012	11:44 AM	72.1	72.1	72.1	54	54.5	3	SSE	0.05	5	SSE	72.1	71.6	71.6	30.093	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0724	23	1	100	1
9/21/2012	11:45 AM	72	72.1	72	53	53.9	3	SSE	0.05	4	SSE	72	71.3	71.3	30.094	0	0	0	0.005	82.3	44	58.2	82.2	8.15	0.0725	24	1	100	1
9/21/2012	11:46 AM	71.7	71.9	71.7	54	54.2	1	SSE	0.02	3	SSE	71.7	71	71	30.092	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:47 AM	71.7	71.7	71.7	54	54.2	1	SSE	0.02	5	SSE	71.7	71	71	30.093	0	0	0	0.005	82.5	44	58.4	82.6	8.15	0.0724	23	1	100	1
9/21/2012	11:48 AM	71.7	71.7	71.7	54	54.2	2	ESE	0.03	4	ESE	71.7	71	71	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:49 AM	71.8	71.8	71.7	55	54.8	2	ESE	0.03	4	SE	71.8	71.2	71.2	30.093	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	23	1	100	1
9/21/2012	11:50 AM	71.9	71.9	71.8	54	54.3	2	SE	0.03	5	SE	71.9	71.3	71.3	30.091	0	0	0	0.005	82.7	44	58.6	82.9	8.15	0.0724	24	1	100	1
9/21/2012	11:51 AM	71.9	71.9	71.9	54	54.3	4	SSW	0.07	5	S	71.9	71.3	71.3	30.091	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	23	1	100	1
9/21/2012	11:52 AM	71.9	71.9	71.9	55	54.9	3	SSE	0.05	5	SSW	71.9	71.4	71.4	30.09	0	0	0	0.005	82.9	43	58.1	83	7.99	0.0724	23	1	100	1
9/21/2012	11:53 AM	71.9	71.9	71.9	54	54.3	2	SSE	0.03	4	SSE	71.9	71.3	71.3	30.088	0	0	0	0.005	82.9	44	58.7	83.2	8.15	0.0723	24	1	100	1
9/21/2012	11:54

Meteorological Data
Equity IRM

9/21/2012	1:14 PM	72.6	72.6	72.5	57	56.5	5	SSE	0.08	8	SSE	72.6	72.6	72.6	30.071	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	24	1	100	1
9/21/2012	1:15 PM	72.7	72.7	72.6	57	56.6	5	S	0.08	8	SE	72.7	72.7	72.7	30.069	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	23	1	100	1
9/21/2012	1:16 PM	72.8	72.8	72.7	57	56.7	6	S	0.1	9	S	72.8	72.9	72.9	30.069	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	23	1	100	1
9/21/2012	1:17 PM	72.7	72.8	72.7	56	56.1	6	SSW	0.1	8	SSE	72.7	72.6	72.6	30.07	0	0	0	0.005	85.5	41	59.1	85.8	7.65	0.0719	24	1	100	1
9/21/2012	1:18 PM	72.6	72.7	72.6	57	56.5	6	S	0.1	11	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:19 PM	72.6	72.6	72.6	57	56.5	5	SSE	0.08	8	SSE	72.6	72.6	72.6	30.07	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	24	1	100	1
9/21/2012	1:20 PM	72.5	72.6	72.5	56	55.9	4	SSE	0.07	6	SSE	72.5	72.3	72.3	30.069	0	0	0	0.005	85.3	41	58.9	85.6	7.65	0.072	23	1	100	1
9/21/2012	1:21 PM	72.5	72.5	72.5	57	56.4	4	SSE	0.07	7	S	72.5	72.4	72.4	30.067	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	23	1	100	1
9/21/2012	1:22 PM	72.4	72.5	72.4	57	56.3	4	SSE	0.07	8	SSE	72.4	72.3	72.3	30.069	0	0	0	0.005	85.1	41	58.8	85.4	7.65	0.072	24	1	100	1
9/21/2012	1:23 PM	72.5	72.5	72.4	57	56.4	7	SSE	0.12	9	SSE	72.5	72.4	72.4	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	23	1	100	1
9/21/2012	1:24 PM	72.4	72.4	72.4	57	56.3	5	SSE	0.08	8	SSE	72.4	72.3	72.3	30.067	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	24	1	100	1
9/21/2012	1:25 PM	72.4	72.4	72.4	57	56.3	6	S	0.1	12	SSE	72.4	72.3	72.3	30.068	0	0	0	0.005	84.9	41	58.6	85.2	7.65	0.072	22	1	95.7	1
9/21/2012	1:26 PM	72.4	72.4	72.4	57	56.3	5	S	0.08	12	SSE	72.4	72.3	72.3	30.067	0	0	0	0.005	84.7	41	58.4	85	7.66	0.0721	23	1	100	1
9/21/2012	1:27 PM	72.4	72.4	72.3	58	56.8	5	S	0.08	8	SW	72.4	72.3	72.3	30.066	0	0	0	0.005	84.7	42	59.1	85.2	7.85	0.072	23	1	100	1
9/21/2012	1:28 PM	72.5	72.5	72.4	58	56.9	5	SSW	0.08	8	S	72.5	72.5	72.5	30.067	0	0	0	0.005	84.7	41	58.4	85	7.66	0.0721	23	1	100	1
9/21/2012	1:29 PM	72.5	72.5	72.5	57	56.4	5	SSE	0.08	7	S	72.5	72.4	72.4	30.068	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	23	1	100	1
9/21/2012	1:30 PM	72.6	72.6	72.6	57	56.5	3	SSE	0.05	6	SSE	72.6	72.6	72.6	30.065	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	23	1	100	1
9/21/2012	1:31 PM	72.7	72.7	72.6	57	56.6	6	SSE	0.1	8	SE	72.7	72.7	72.7	30.064	0	0	0	0.005	84.5	41	58.2	84.9	7.66	0.0721	22	1	95.7	1
9/21/2012	1:32 PM	72.8	72.8	72.7	57	56.7	5	SSE	0.08	7	SE	72.8	72.9	72.9	30.064	0	0	0	0.005	84.3	41	58	84.7	7.66	0.0721	22	1	95.7	1
9/21/2012	1:33 PM	72.9	72.9	72.8	57	56.8	7	SSW	0.12	10	SW	72.9	73	73	30.062	0	0	0	0.005	84.3	41	58	84.7	7.66	0.0721	23	1	100	1
9/21/2012	1:34 PM	73.1	73.1	72.9	56	56.5	6	SSE	0.1	9	SSE	73.1	73.2	73.2	30.062	0	0	0	0.006	84.3	42	58.7	84.9	7.85	0.0721	22	1	95.7	1
9/21/2012	1:35 PM	73.2	73.2	73.1	56	56.6	5	SSE	0.08	7	SSW	73.2	73.3	73.3	30.062	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:36 PM	73.3	73.3	73.2	55	56.2	4	SSW	0.07	7	SW	73.3	73.4	73.4	30.062	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:37 PM	73.4	73.4	73.3	56	56.7	5	S	0.08	8	SW	73.4	73.6	73.6	30.063	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:38 PM	73.4	73.4	73.4	55	56.2	7	SSW	0.12	10	SSE	73.4	73.5	73.5	30.064	0	0	0	0.006	84.1	42	58.5	84.7	7.85	0.0721	23	1	100	1
9/21/2012	1:39 PM	73.3	73.4	73.3	55	56.2	6	SSW	0.1	8	SSW	73.3	73.4	73.4	30.064	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:40 PM	73.1	73.2	73.1	55	56	4	SSE	0.07	7	SSE	73.1	73.1	73.1	30.064	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	23	1	100	1
9/21/2012	1:41 PM	73	73.1	73	56	56.4	4	S	0.07	9	SSE	73	73.1	73.1	30.062	0	0	0	0.006	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:42 PM	73	73	73	55	55.9	6	SSE	0.1	8	SSE	73	73	73	30.062	0	0	0	0.006	83.9	41	57.7	84.3	7.67	0.0722	23	1	100	1
9/21/2012	1:43 PM	72.9	72.9	72.9	56	56.3	4	SSE	0.07	6	SSE	72.9	72.9	72.9	30.061	0	0	0	0.005	83.9	42	58.3	84.5	7.85	0.0722	24	1	100	1
9/21/2012	1:44 PM	72.9	72.9	72.9	56	56.3	5	S	0.08	7	SSW	72.9	72.9	72.9	30.06	0	0	0	0.005	83.7	41	57.5	84	7.68	0.0722	23	1	100	1
9/21/2012	1:45 PM	73	73	72.9	57	56.9	4	SSE	0.07	7	SSE	73	73.2	73.2	30.06	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	23	1	100	1
9/21/2012	1:46 PM	73.1	73.1	73.1	56	56.5	6	SSW	0.1	9	S	73.1	73.2	73.2	30.06	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	24	1	100	1
9/21/2012	1:47 PM	73.1	73.1	73.1	56	56.5	3	W	0.05	7	WNW	73.1	73.2	73.2	30.059	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	23	1	100	1
9/21/2012	1:48 PM	73.2	73.2	73.1	56	56.6	3	SSE	0.05	6	SSE	73.2	73.3	73.3	30.059	0	0	0	0.006	83.7	42	58.2	84.1	7.85	0.0722	24	1	100	1
9/21/2012	1:49 PM	73.3	73.3	73.2	56	56.7	5	SSE	0.08	7	S	73.3	73.4	73.4	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:50 PM	73.5	73.5	73.4	55	56.3	3	S	0.05	6	SSE	73.5	73.6	73.6	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:51 PM	73.7	73.7	73.5	55	56.5	6	S	0.1	9	S	73.7	73.8	73.8	30.061	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:52 PM	73.7	73.7	73.7	54	56	5	S	0.08	7	S	73.7	73.7	73.7	30.06	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:53 PM	73.7	73.7	73.7	54	56	5	S	0.08	8	SSE	73.7	73.7	73.7	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:54 PM	73.7	73.7	73.7	54	56	4	SSW	0.07	7	S	73.7	73.7	73.7	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:55 PM	73.7	73.7	73.6	54	56	5	S	0.08	7	S	73.7	73.7	73.7	30.057	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	24	1	100	1
9/21/2012	1:56 PM	73.6	73.7	73.6	54	55.9	6	SSE	0.1	9	SSE	73.6	73.6	73.6	30.059	0	0	0	0.006	83.5	42	58	83.8	7.85	0.0722	23	1	100	1
9/21/2012	1:57 PM	73.6	73.6	73.6	55	56.4	6	S	0.1	8	S	73.6	73.7	73.7	30.058	0	0	0	0.006	83.3	41	57.1	83.3	7.68	0.0723	23	1	100	1
9/21/2012	1:58 PM	73.5	73.6	73.5	54	55.8	5	S	0.08	9	S	73.5	73.5	73.5	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	1:59 PM	73.5	73.5	73.5	54	55.8	3	SSE	0.05	4	S	73.5	73.5	73.5	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:00 PM	73.6	73.6	73.5	54	55.9	4	SE	0.07	7	SSE	73.6	73.6	73.6	30.055	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	2:01 PM	73.6	73.6	73.6	54	55.9	6	SE	0.1	9	SE	73.6	73.6	73.6	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:02 PM	73.7	73.7	73.7	54	56	5	S	0.08	8	S	73.7	73.7	73.7	30.057	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:03 PM	73.8	73.8	73.7	54	56.1	5	SSE	0.08	9	SSE	73.8	73.9	73.9	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	24	1	100	1
9/21/2012	2:04 PM	73.9	73.9	73.9	54	56.2	6	S	0.1	7	S	73.9	74	74	30.058	0	0	0	0.006	83.3	42	57.8	83.5	7.85	0.0722	23	1	100	1
9/21/2012	2:05 PM	73.9	73.9	73.9	54	56.2	4	SSE	0.07	7	SSE	73.9	74	74	30.059	0	0	0	0.006	83.1	41	57	83	7.69	0.0723	24	1	100	1
9/21/2012	2:06 PM	74	74	73.9	53	55.8	3	SE	0.05	5	SSW	74	74	74	30.057	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:07 PM	74	74	74	54	56.3	6	SSE	0.1	9	SW	74	74.1	74.1	30.056	0	0	0	0.006	83.1	41	57	83	7.69	0.0723	24	1	100	1
9/21/2012	2:08 PM	74	74	74	52	55.3	6	SSE	0.1	9	S	74	73.9	73.9	30.059	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:09 PM	73.9	74	73.9	53	55.7	5	SSE	0.08	9	SSE	73.9	73.9	73.9	30.057	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:10 PM	73.8	73.9	73.8	53	55.6	6	SSE	0.1	8	SSE	73.8	73.8	73.8	30.058	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:11 PM	73.8	73.8	73.8	53	55.6	3	SSE	0.05	6	SSE	73.8	73.8	73.8	30.058	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:12 PM	73.8	73.9	73.8	52	55.1	5	SSE	0.08	7	S	73.8	73.7	73.7	30.055	0	0	0	0.006	83.1	42	57.6	83.2	7.85	0.0723	23	1	100	1
9/21/2012	2:13 PM	73.8	73.8	73.8	52	55.1	5	SE	0.08	7	S	73.8	73.7	73.7	30.056	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:14 PM	73.7	73.8	73.7	52	55	5	S	0.08	9	S	73.7	73.5	73.5	30.055	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	22	1	95.7	1
9/21/2012	2:15 PM	73.7	73.7	73.7	53	55.5	5	S	0.08	9	S	73.7	73.6	73.6	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:16 PM	73.7	73.7	73.7	53	55.5	2	SSW	0.03	6	S	73.7	73.6	73.6	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	23	1	100	1
9/21/2012	2:17 PM	73.7	73.7	73.6	52	55	2	SW	0.03	5	SW	73.7	73.5	73.5	30.053	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	23	1	100	1
9/21/2012	2:18 PM	73.7	73.7	73.6	52	55	6	SSW	0.1	8	S	73.7	73.5	73.5	30.053	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	23	1	100	1
9/21/2012	2:19 PM	73.7	73.7	73.6	52	55	4	S	0.07	6	SSW	73.7	73.5	73.5	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	22	1	95.7	1
9/21/2012	2:20 PM	73.6	73.7	73.6	52	54.9	6	SSW	0.1	9	SSE	73.6	73.4	73.4	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	24	1	100	1
9/21/2012	2:21 PM	73.6	73.6	73.6	53	55.4	6	SSE	0.1	10	SSE	73.6	73.5	73.5	30.052	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	22	1	95.7	1
9/21/2012	2:22 PM	73.6	73.6	73.6	52	54.9	5	SSE	0.08	8	SE	73.6	73.4	73.4	30.054	0	0	0	0.006	82.9	42	57.5	82.9	7.85	0.0723	24	1	100	1
9/21/2012	2:23 PM	73.6	73.6	73.6	53	55.4	4	SSE	0.07	9	SSE	73.6	73.5	73.5	30.052	0	0	0	0.006	82.9	41	56.8	82.7	7.69	0.0723	22	1	95.7	1
9/21/2012	2:24 PM	73.6	73.6	73.6	53	55.4	5	SSE	0.08	7	SSE	73.6	73.5	73.5	30.054	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:25 PM	73.6	73.7	73.6	52	54.9	5	SSE	0.08	8	S	73.6	73.4	73.4	30.053	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:26 PM	73.6	73.7	73.6	51	54.4	5	S	0.08	8	S	73.6	73.3	73.3	30.053	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:27 PM	73.5	73.6	73.5	52	54.8	5	SE	0.08	8	SE	73.5	73.3	73.3	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:28 PM	73.5	73.5	73.5	52	54.8	5	S	0.08	8	SW	73.5	73.3	73.3	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:29 PM	73.5	73.5	73.5	52	54.8	5	S	0.08	8	S	73.5	73.3	73.3	30.05	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:30 PM	73.6	73.6	73.5	53	55.4	2	S	0.03	4	SSW	73.6	73.5	73.5	30.052	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:31 PM	73.7	73.7	73.6	53	55.5	6	S	0.1	10	S	73.7	73.6	73.6	30.051	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	23	1	100	1
9/21/2012	2:32 PM	73.8	73.8	73.8	52	55.1	5	SSW	0.08	7	SSW	73.8	73.7	73.7	30.049	0	0	0	0.006	82.7	41	56.6	82.4	7.7	0.0724	24	1	100	1
9/21/2012	2:33 PM	73.8	73.8	73.8	52	55.1	4	SSE	0.07	6	SSE	73.8	73.7	73.7	30.05	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:34 PM	73.8	73.8	73.8	50	54	6	SSW	0.1	8	S	73.8	73.5	73.5	30.048	0	0	0	0.006	82.5	42	57.1	82.3	7.85	0.0724	24	1	100	1
9/21/2012	2:35 PM	73.8	73.8	73.8	51	54.5	5	SSE	0.08	6	S	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	42	57.1	82.3	7.85	0.0724	23	1	100	1
9/21/2012	2:36 PM	73.8	73.8	73.8	51	54.5	6	S	0.1	7	S	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:37 PM	73.8	73.8	73.8	52	55.1	3	S	0.05	8	SW	73.8	73.7	73.7	30.05	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:38 PM	73.8	73.8	73.8	51	54.5	2	SSW	0.03	4	SSW	73.8	73.6	73.6	30.049	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:39 PM	73.8	73.8	73.8	51	54.5	6	SSW	0.1	9	SSW	73.8	73.6	73.6	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:40 PM	73.7	73.8	73.7	50	53.9	6	SSW	0.1	11	SW	73.7	73.3	73.3	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:41 PM	73.7	73.7	73.7	50	53.9	7	SSW	0.12	10	S	73.7	73.3	73.3	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:42 PM	73.6	73.7	73.6	49	53.3	3	SSW	0.05	7	SSW	73.6	73.2	73.2	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:43 PM	73.6	73.7	73.6	49	53.3	4	SSE	0.07	6	S	73.6	73.2	73.2	30.048	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	23	1	100	1
9/21/2012	2:44 PM	73.7	73.7	73.6	49	53.3	5	SSE	0.08	8	SSE	73.7	73.3	73.3	30.047	0	0	0	0.006	82.5	41	56.4	82.1	7.7	0.0724	24	1	100	1
9/21/2012	2:45 PM	73.8	73.8	73.7	49	53.4	5	S	0.08	7	S	73.8	73.4	73.4	30.049	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:46 PM	73.8	73.8	73.8	49	53.4	5	S	0.08	8	SSW	73.8	73.4	73.4	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:47 PM	73.8	73.8	73.8	50	54	4	S	0.07	6	S	73.8	73.5	73.5	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	22	1	95.7	1
9/21/2012	2:48 PM	73.8	73.8	73.8	50	54	4	SSW	0.07	6	SSW	73.8	73.5	73.5	30.045	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:49 PM	73.8	73.8	73.8	48	52.9	5	SSE	0.08	8	SSE	73.8	73.3	73.3	30.046	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:50 PM	73.8	73.8	73.7	49	53.4	5	SSE	0.08	7	SSE	73.8	73.4	73.4	30.047	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	23	1	100	1
9/21/2012	2:51 PM	73.8	73.8	73.8	48	52.9	4	SE	0.07	7	S	73.8	73.3	73.3	30.048	0	0	0	0.006	82.3	41	56.2	81.9	7.7	0.0724	24	1	100	1
9/21/2012	2:52 PM	73.9	73.9	73.8	48	53	5	S	0.08	7	SSW	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.0725	23	1	100	1
9/21/2012	2:53 PM	73.9	73.9	73.9	48	53	4	S	0.07	5	S	73.9	73.5	73.5	30.048	0	0	0	0.006	82.1	41	56.1	81.6	7.71	0.

Meteorological Data
Equity IRM

9/22/2012	7:31 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.795	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	23	1	100	1
9/22/2012	7:32 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.6	54	54.1	70.8	9.92	0.0733	23	1	100	1
9/22/2012	7:33 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.795	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:34 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:35 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.796	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	23	1	100	1
9/22/2012	7:36 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.4	54	53.9	70.5	9.92	0.0734	22	1	95.7	1
9/22/2012	7:37 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.798	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:38 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.799	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:39 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	22	1	95.7	1
9/22/2012	7:40 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.2	54	53.7	70.2	9.93	0.0734	23	1	100	1
9/22/2012	7:41 PM	72.1	72.1	72	84	67	0	---	0	0	---	72.1	73.9	73.9	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	22	1	95.7	1
9/22/2012	7:42 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.801	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:43 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.8	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:44 PM	72	72.1	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	71.1	54	53.6	70.1	9.93	0.0734	23	1	100	1
9/22/2012	7:45 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	24	1	100	1
9/22/2012	7:46 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.799	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:47 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.797	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:48 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.798	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	23	1	100	1
9/22/2012	7:49 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.797	0	0	0	0.005	70.9	54	53.4	69.8	9.93	0.0735	24	1	100	1
9/22/2012	7:50 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	23	1	100	1
9/22/2012	7:51 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	22	1	95.7	1
9/22/2012	7:52 PM	71.9	72	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.794	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	24	1	100	1
9/22/2012	7:53 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.796	0	0	0	0.005	70.7	54	53.2	69.5	9.94	0.0735	23	1	100	1
9/22/2012	7:54 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.796	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	24	1	100	1
9/22/2012	7:55 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	22	1	95.7	1
9/22/2012	7:56 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.798	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	23	1	100	1
9/22/2012	7:57 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	24	1	100	1
9/22/2012	7:58 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.797	0	0	0	0.005	70.6	54	53.1	69.4	9.94	0.0735	23	1	100	1
9/22/2012	7:59 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.8	0	0	0	0.005	70.4	54	53	69.1	9.94	0.0736	24	1	100	1
9/22/2012	8:00 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.4	54	53	69.1	9.94	0.0736	22	1	95.7	1
9/22/2012	8:01 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.802	0	0	0	0.005	70.4	55	53.5	69.2	10.14	0.0735	24	1	100	1
9/22/2012	8:02 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.4	55	53.5	69.2	10.14	0.0735	22	1	95.7	1
9/22/2012	8:03 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:04 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.803	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:05 PM	71.9	71.9	71.8	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.804	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:06 PM	71.8	71.9	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.803	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	24	1	100	1
9/22/2012	8:07 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.801	0	0	0	0.005	70.2	55	53.3	69	10.15	0.0736	23	1	100	1
9/22/2012	8:08 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.801	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:09 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.8	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	24	1	100	1
9/22/2012	8:10 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.8	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:11 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.799	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	24	1	100	1
9/22/2012	8:12 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.798	0	0	0	0.005	70.1	55	53.2	68.8	10.15	0.0736	23	1	100	1
9/22/2012	8:13 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:14 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	22	1	95.7	1
9/22/2012	8:15 PM	71.6	71.7	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	23	1	100	1
9/22/2012	8:16 PM	71.7	71.7	71.6	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.798	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:17 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	23	1	100	1
9/22/2012	8:18 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.9	55	53	68.6	10.15	0.0736	24	1	100	1
9/22/2012	8:19 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	23	1	100	1
9/22/2012	8:20 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:21 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.799	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0737	24	1	100	1
9/22/2012	8:22 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.797	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:23 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.797	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	24	1	100	1
9/22/2012	8:24 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.796	0	0	0	0.005	69.7	55	52.8	68.5	10.16	0.0736	22	1	95.7	1
9/22/2012	8:25 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.795	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	24	1	100	1
9/22/2012	8:26 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	21	1	91.3	1
9/22/2012	8:27 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:28 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.794	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	23	1	100	1
9/22/2012	8:29 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.792	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:30 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.792	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	23	1	100	1
9/22/2012	8:31 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.791	0	0	0	0.005	69.6	55	52.7	68.4	10.16	0.0737	22	1	95.7	1
9/22/2012	8:32 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:33 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:34 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:35 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:36 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.787	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:37 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	23	1	100	1
9/22/2012	8:38 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.788	0	0	0	0.005	69.4	55	52.5	68.3	10.16	0.0737	24	1	100	1
9/22/2012	8:39 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.785	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	22	1	95.7	1
9/22/2012	8:40 PM	71.5	71.5	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.784	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:41 PM	71.5	71.6	71.5	85	66.8	0	---	0	0	---	71.5	73.3	73.3	29.786	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	22	1	95.7	1
9/22/2012	8:42 PM	71.6	71.6	71.5	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.787	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:43 PM	71.6	71.6	71.5	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.786	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:44 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.787	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:45 PM	71.6	71.6	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.789	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:46 PM	71.6	71.7	71.6	85	66.8	0	---	0	0	---	71.6	73.4	73.4	29.789	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:47 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.791	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	24	1	100	1
9/22/2012	8:48 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.791	0	0	0	0.005	69.2	55	52.3	68.1	10.17	0.0737	23	1	100	1
9/22/2012	8:49 PM	71.7	71.7	71.7	85	66.9	0	---	0	0	---	71.7	73.5	73.5	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:50 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:51 PM	71.8	71.8	71.7	85	67	0	---	0	0	---	71.8	73.6	73.6	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:52 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.791	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:53 PM	71.8	71.8	71.8	85	67	0	---	0	0	---	71.8	73.6	73.6	29.79	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	8:54 PM	71.9	71.9	71.8	85	67.1	0	---	0	0	---	71.9	73.7	73.7	29.789	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	8:55 PM	71.9	71.9	71.8	85	67.1	0	---	0	0	---	71.9	73.7	73.7	29.787	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:56 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:57 PM	71.9	71.9	71.9	84	66.8	0	---	0	0	---	71.9	73.6	73.6	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	24	1	100	1
9/22/2012	8:58 PM	72	72	71.9	84	66.9	0	---	0	0	---	72	73.7	73.7	29.788	0	0	0	0.005	69	55	52.2	68	10.17	0.0737	23	1	100	1
9/22/2012	8:59 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.789	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:00 PM	72	72	72	84	66.9	0	---	0	0	---	72	73.7	73.7	29.79	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:01 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:02 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:03 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:04 PM	72.1	72.1	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:05 PM	72.1	72.2	72.1	84	67	0	---	0	0	---	72.1	73.9	73.9	29.792	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:06 PM	72.2	72.2	72.2	84	67.1	0	---	0	0	---	72.2	74	74	29.794	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:07 PM	72.2	72.2	72.2	83	66.7	0	---	0	0	---	72.2	73.9	73.9	29.793	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:08 PM	72.3	72.3	72.2	83	66.8	0	---	0	0	---	72.3	74	74	29.795	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:09 PM	72.4	72.4	72.3	83	66.9	0	---	0	0	---	72.4	74.2	74.2	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	23	1	100	1
9/22/2012	9:10 PM	72.4	72.4	72.4	82	66.6	0	---	0	0	---	72.4	74.1	74.1	29.797	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:11 PM	72.5	72.5	72.4	82	66.7	0	---	0	0	---	72.5	74.2	74.2	29.8	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	24	1	100	1
9/22/2012	9:12 PM	72.6	72.6	72.5	82	66.8	0	---	0	0	---	72.6	74.4	74.4	29.803	0	0	0	0.005	69	55	52.2	68	10.17	0.0738	22	1	95.7	1
9/22/2012	9:13 PM	72.

Meteorological Data
Equity IRM

9/22/2012	10:31 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	24	1	100	1
9/22/2012	10:32 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0.01	0	0	0.002	67.5	56	51.2	66.7	10.4	0.0741	23	1	100	1
9/22/2012	10:33 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.847	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:34 PM	67.4	67.4	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.849	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:35 PM	67.4	67.5	67.4	88	63.7	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:36 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.848	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:37 PM	67.5	67.5	67.4	88	63.8	0	---	0	0	---	67.5	69	69	29.849	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	23	1	100	1
9/22/2012	10:38 PM	67.4	67.5	67.4	87	63.4	0	---	0	0	---	67.4	68.9	68.9	29.847	0	0	0	0.002	67.4	56	51.2	66.6	10.4	0.0742	24	1	100	1
9/22/2012	10:39 PM	67.5	67.5	67.5	87	63.5	0	---	0	0	---	67.5	69	69	29.846	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:40 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.844	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:41 PM	67.5	67.5	67.5	86	63.2	0	---	0	0	---	67.5	68.9	68.9	29.842	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:42 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:43 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	24	1	100	1
9/22/2012	10:44 PM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.843	0	0	0	0.002	67.2	56	51	66.4	10.41	0.0742	23	1	100	1
9/22/2012	10:45 PM	67.6	67.6	67.5	85	62.9	0	---	0	0	---	67.6	69	69	29.842	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:46 PM	67.6	67.6	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.841	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:47 PM	67.6	67.6	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.84	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:48 PM	67.7	67.7	67.6	85	63	0	---	0	0	---	67.7	69.1	69.1	29.841	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:49 PM	67.6	67.7	67.6	85	62.9	0	---	0	0	---	67.6	69	69	29.843	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	23	1	100	1
9/22/2012	10:50 PM	67.7	67.7	67.6	85	63	0	---	0	0	---	67.7	69.1	69.1	29.847	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	24	1	100	1
9/22/2012	10:51 PM	67.7	67.7	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	29.85	0	0	0	0.002	67	56	50.8	66.2	10.41	0.0742	22	1	95.7	1
9/22/2012	10:52 PM	67.7	67.7	67.7	85	63	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:53 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.86	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	10:54 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.864	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	10:55 PM	67.8	67.8	67.8	83	62.4	0	---	0	0	---	67.8	69.2	69.2	29.866	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:56 PM	67.9	67.9	67.8	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.864	0	0	0	0.002	66.9	57	51.2	66.1	10.61	0.0743	22	1	95.7	1
9/22/2012	10:57 PM	67.9	67.9	67.9	82	62.2	0	---	0	0	---	67.9	69.3	69.3	29.863	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	24	1	100	1
9/22/2012	10:58 PM	67.9	67.9	67.9	82	62.2	0	---	0	0	---	67.9	69.3	69.3	29.861	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	22	1	95.7	1
9/22/2012	10:59 PM	67.9	68	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.86	0	0	0	0.002	66.9	56	50.7	66.1	10.41	0.0743	23	1	100	1
9/22/2012	11:00 PM	68	68	67.9	82	62.3	0	---	0	0	---	68	69.4	69.4	29.86	0	0	0	0.002	66.7	56	50.5	65.8	10.42	0.0743	23	1	100	1
9/22/2012	11:01 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.859	0	0	0	0.002	66.7	56	50.5	65.8	10.42	0.0743	23	1	100	1
9/22/2012	11:02 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.859	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	23	1	100	1
9/22/2012	11:03 PM	68	68	68	83	62.6	0	---	0	0	---	68	69.4	69.4	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	22	1	95.7	1
9/22/2012	11:04 PM	68	68	68	84	63	0	---	0	0	---	68	69.5	69.5	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	24	1	100	1
9/22/2012	11:05 PM	68	68	68	84	63	0	---	0	0	---	68	69.5	69.5	29.858	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	22	1	95.7	1
9/22/2012	11:06 PM	67.9	68	67.9	84	62.9	0	---	0	0	---	67.9	69.3	69.3	29.857	0	0	0	0.002	66.7	57	51	65.9	10.62	0.0743	23	1	100	1
9/22/2012	11:07 PM	67.9	67.9	67.9	84	62.9	0	---	0	0	---	67.9	69.3	69.3	29.858	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:08 PM	67.9	67.9	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.856	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	22	1	95.7	1
9/22/2012	11:09 PM	67.8	67.9	67.8	83	62.4	0	---	0	0	---	67.8	69.2	69.2	29.855	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:10 PM	67.9	67.9	67.9	85	63.2	0	---	0	0	---	67.9	69.4	69.4	29.855	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:11 PM	67.9	67.9	67.9	83	62.5	0	---	0	0	---	67.9	69.3	69.3	29.854	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:12 PM	67.8	67.8	67.8	82	62.1	0	---	0	0	---	67.8	69.1	69.1	29.854	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:13 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.853	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	23	1	100	1
9/22/2012	11:14 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.853	0	0	0	0.002	66.6	57	50.9	65.8	10.62	0.0743	24	1	100	1
9/22/2012	11:15 PM	67.8	67.8	67.8	84	62.8	0	---	0	0	---	67.8	69.2	69.2	29.854	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:16 PM	67.7	67.8	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:17 PM	67.7	67.8	67.7	82	62	0	---	0	0	---	67.7	69	69	29.855	0.01	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:18 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.854	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:19 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:20 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:21 PM	67.7	67.7	67.7	84	62.7	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	24	1	100	1
9/22/2012	11:22 PM	67.7	67.7	67.7	83	62.3	0	---	0	0	---	67.7	69.1	69.1	29.855	0	0	0	0.002	66.4	57	50.7	65.5	10.62	0.0743	23	1	100	1
9/22/2012	11:23 PM	67.6	67.7	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.854	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:24 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:25 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:26 PM	67.6	67.6	67.6	83	62.3	0	---	0	0	---	67.6	68.9	68.9	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:27 PM	67.5	67.6	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.853	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:28 PM	67.5	67.6	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.852	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:29 PM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.852	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	24	1	100	1
9/22/2012	11:30 PM	67.5	67.5	67.5	84	62.5	0	---	0	0	---	67.5	68.9	68.9	29.851	0	0	0	0.002	66.2	57	50.5	65.3	10.63	0.0744	23	1	100	1
9/22/2012	11:31 PM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.854	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:32 PM	67.4	67.5	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.856	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:33 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.856	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:34 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:35 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:36 PM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	24	1	100	1
9/22/2012	11:37 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	66.1	57	50.4	65.2	10.63	0.0744	23	1	100	1
9/22/2012	11:38 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:39 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:40 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.86	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:41 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.861	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:42 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	22	1	95.7	1
9/22/2012	11:43 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:44 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	23	1	100	1
9/22/2012	11:45 PM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.9	57	50.2	65	10.63	0.0744	24	1	100	1
9/22/2012	11:46 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.857	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:47 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:48 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.858	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	24	1	100	1
9/22/2012	11:49 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0744	23	1	100	1
9/22/2012	11:50 PM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.86	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	23	1	100	1
9/22/2012	11:51 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.863	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	23	1	100	1
9/22/2012	11:52 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.864	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	22	1	95.7	1
9/22/2012	11:53 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.8	57	50.1	64.8	10.63	0.0745	22	1	95.7	1
9/22/2012	11:54 PM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.862	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/22/2012	11:55 PM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.863	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:56 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.864	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:57 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/22/2012	11:58 PM	67.3	67.3	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/22/2012	11:59 PM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.868	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	22	1	95.7	1
9/23/2012	12:00 AM	67.4	67.4	67.3	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.868	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	24	1	100	1
9/23/2012	12:01 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	20	1	87	1
9/23/2012	12:02 AM	67.3	67.4	67.3	82	61.6	0	---	0	0	---	67.3	68.5	68.5	29.866	0	0	0	0.002	65.6	57	50	64.6	10.64	0.0745	23	1	100	1
9/23/2012	12:03 AM	67.4	67.4	67.3	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.866	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:04 AM	67.3	67.4	67.3	81	61.3	0	---	0	0	---	67.3	68.5	68.5	29.867	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:05 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.865	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:06 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.864	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:07 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.863	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:08 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.862	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:09 AM	67.4	67.4	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.861	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:10 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.86	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	23	1	100	1
9/23/2012	12:11 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7	68.7	29.859	0	0	0	0.002	65.4	57	49.8	64.4	10.64	0.0745	24	1	100	1
9/23/2012	12:12 AM	67.4	67.4	67.4	82	61.7	0	---	0	0	---	67.4	68.7

Meteorological Data
Equity IRM

9/23/2012	1:31 AM	67.5	67.5	67.4	85	62.8	0	---	0	0	---	67.5	68.9	68.9	29.878	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:32 AM	67.4	67.4	67.4	85	62.7	0	---	0	0	---	67.4	68.8	68.8	29.878	0	0	0	0.002	64.6	57	49	63.5	10.64	0.0747	23	1	100	1
9/23/2012	1:33 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.877	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:34 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.877	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:35 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.878	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:36 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:37 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:38 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.876	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:39 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:40 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	24	1	100	1
9/23/2012	1:41 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.875	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	22	1	95.7	1
9/23/2012	1:42 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	57	48.9	63.4	10.64	0.0747	23	1	100	1
9/23/2012	1:43 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.5	58	49.4	63.5	10.75	0.0747	23	1	100	1
9/23/2012	1:44 AM	67.4	67.4	67.3	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.871	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:45 AM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:46 AM	67.4	67.4	67.4	83	62.1	0	---	0	0	---	67.4	68.7	68.7	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	22	1	95.7	1
9/23/2012	1:47 AM	67.4	67.4	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:48 AM	67.4	67.5	67.4	84	62.4	0	---	0	0	---	67.4	68.7	68.7	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:49 AM	67.5	67.5	67.4	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.872	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:50 AM	67.5	67.5	67.4	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:51 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.873	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:52 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	24	1	100	1
9/23/2012	1:53 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.3	58	49.2	63.3	10.75	0.0747	23	1	100	1
9/23/2012	1:54 AM	67.5	67.5	67.5	83	62.2	0	---	0	0	---	67.5	68.8	68.8	29.875	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:55 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	1:56 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:57 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.876	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	1:58 AM	67.5	67.5	67.5	82	61.8	0	---	0	0	---	67.5	68.8	68.8	29.876	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	1:59 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.878	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:00 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.877	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:01 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.879	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:02 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.879	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:03 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	23	1	100	1
9/23/2012	2:04 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	64.1	58	49	63	10.75	0.0748	24	1	100	1
9/23/2012	2:05 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:06 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:07 AM	67.6	67.6	67.5	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.88	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:08 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.883	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:09 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:10 AM	67.6	67.6	67.6	79	60.9	0	---	0	0	---	67.6	68.7	68.7	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:11 AM	67.7	67.7	67.6	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:12 AM	67.7	67.7	67.6	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.887	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:13 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:14 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:15 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:16 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:17 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.883	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:18 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.884	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:19 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:20 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:21 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.886	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	24	1	100	1
9/23/2012	2:22 AM	67.7	67.7	67.7	80	61.3	0	---	0	0	---	67.7	68.9	68.9	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:23 AM	67.6	67.7	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.885	0	0	0	0.002	64	58	48.9	62.9	10.75	0.0748	23	1	100	1
9/23/2012	2:24 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.884	0.01	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:25 AM	67.6	67.6	67.6	80	61.2	0	---	0	0	---	67.6	68.8	68.8	29.882	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:26 AM	67.6	67.6	67.6	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.882	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:27 AM	67.6	67.6	67.6	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.881	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:28 AM	67.6	67.6	67.5	81	61.6	0	---	0	0	---	67.6	68.9	68.9	29.879	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:29 AM	67.5	67.6	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.88	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:30 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.881	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:31 AM	67.5	67.5	67.5	81	61.5	0	---	0	0	---	67.5	68.7	68.7	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:32 AM	67.5	67.5	67.5	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:33 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:34 AM	67.5	67.5	67.4	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:35 AM	67.5	67.5	67.4	80	61.1	0	---	0	0	---	67.5	68.7	68.7	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:36 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:37 AM	67.4	67.5	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:38 AM	67.4	67.4	67.4	80	61	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:39 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:40 AM	67.4	67.4	67.4	81	61.4	0	---	0	0	---	67.4	68.6	68.6	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:41 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:42 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.886	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:43 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:44 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.884	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	22	1	95.7	1
9/23/2012	2:45 AM	67.4	67.4	67.4	79	60.7	0	---	0	0	---	67.4	68.5	68.5	29.883	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:46 AM	67.4	67.4	67.3	78	60.3	0	---	0	0	---	67.4	68.4	68.4	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:47 AM	67.4	67.4	67.4	77	59.9	0	---	0	0	---	67.4	68.3	68.3	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:48 AM	67.4	67.4	67.4	77	59.9	0	---	0	0	---	67.4	68.3	68.3	29.884	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	24	1	100	1
9/23/2012	2:49 AM	67.5	67.5	67.4	77	60	0	---	0	0	---	67.5	68.5	68.5	29.885	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0748	23	1	100	1
9/23/2012	2:50 AM	67.5	67.5	67.5	76	59.7	0	---	0	0	---	67.5	68.4	68.4	29.888	0	0	0	0.002	63.8	58	48.7	62.7	10.75	0.0749	24	1	100	1
9/23/2012	2:51 AM	67.5	67.5	67.5	76	59.7	0	---	0	0	---	67.5	68.4	68.4	29.887	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:52 AM	67.6	67.6	67.5	76	59.8	0	---	0	0	---	67.6	68.5	68.5	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:53 AM	67.6	67.6	67.6	75	59.4	0	---	0	0	---	67.6	68.4	68.4	29.89	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:54 AM	67.6	67.6	67.6	74	59	0	---	0	0	---	67.6	68.4	68.4	29.887	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:55 AM	67.6	67.6	67.6	73	58.6	0	---	0	0	---	67.6	68.3	68.3	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:56 AM	67.7	67.7	67.7	72	58.3	0	---	0	0	---	67.7	68.4	68.4	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	22	1	95.7	1
9/23/2012	2:57 AM	67.8	67.8	67.7	72	58.4	0	---	0	0	---	67.8	68.5	68.5	29.889	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	2:58 AM	67.8	67.9	67.8	73	58.8	0	---	0	0	---	67.8	68.5	68.5	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	2:59 AM	67.9	67.9	67.8	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:00 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:01 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:02 AM	68	68	67.9	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:03 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.894	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:04 AM	68	68	68	70	57.8	0	---	0	0	---	68	68.6	68.6	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:05 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:06 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.891	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:07 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:08 AM	68	68	68	71	58.2	0	---	0	0	---	68	68.7	68.7	29.893	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	23	1	100	1
9/23/2012	3:09 AM	68	68	68	69	57.4	0	---	0	0	---	68	68.5	68.5	29.892	0	0	0	0.002	63.6	58	48.5	62.5	10.75	0.0749	24	1	100	1
9/23/2012	3:10 AM	67.9	68	67.9	69	57.4	0	---	0	0	---	67.9	68.4	68.4	29.889	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	22	1	95.7	1
9/23/2012	3:11 AM	67.9	67.9	67.9	70	57.8	0	---	0	0	---	67.9	68.5	68.5	29.89	0	0	0	0.002	63.5	58	48.5	62.4	10.75	0.0749	23	1	100	1
9/23/2012	3:12 AM	67.9	67.9	67.9	69	57.4	0	---	0	0	---	67.9	68.4

Meteorological Data
Equity IRM

9/23/2012	4:31 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	24	1	100	1
9/23/2012	4:32 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.916	0	0	0	0.001	61.4	59	46.9	60.1	10.95	0.0753	23	1	100	1
9/23/2012	4:33 AM	65.8	65.8	65.8	69	55.3	0	---	0	0	---	65.8	65.9	65.9	29.917	0	0	0	0.001	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:34 AM	65.7	65.8	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	24	1	100	1
9/23/2012	4:35 AM	65.7	65.8	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:36 AM	65.7	65.7	65.7	69	55.2	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	24	1	100	1
9/23/2012	4:37 AM	65.7	65.7	65.7	70	55.6	0	---	0	0	---	65.7	65.8	65.8	29.916	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:38 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.3	59	46.8	60	10.95	0.0753	23	1	100	1
9/23/2012	4:39 AM	65.6	65.7	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.914	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:40 AM	65.6	65.6	65.6	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.916	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:41 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.919	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:42 AM	65.6	65.6	65.6	70	55.5	0	---	0	0	---	65.6	65.7	65.7	29.921	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	23	1	100	1
9/23/2012	4:43 AM	65.6	65.6	65.5	69	55.2	0	---	0	0	---	65.6	65.6	65.6	29.922	0	0	0	0	61.1	59	46.7	59.8	10.95	0.0754	24	1	100	1
9/23/2012	4:44 AM	65.5	65.6	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:45 AM	65.5	65.5	65.5	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:46 AM	65.5	65.5	65.4	70	55.5	0	---	0	0	---	65.5	65.6	65.6	29.923	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	24	1	100	1
9/23/2012	4:47 AM	65.4	65.4	65.4	70	55.4	0	---	0	0	---	65.4	65.5	65.5	29.921	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	23	1	100	1
9/23/2012	4:48 AM	65.4	65.4	65.4	70	55.4	0	---	0	0	---	65.4	65.5	65.5	29.922	0	0	0	0	61	59	46.6	59.7	10.95	0.0754	24	1	100	1
9/23/2012	4:49 AM	65.3	65.4	65.3	70	55.3	0	---	0	0	---	65.3	65.4	65.4	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:50 AM	65.3	65.3	65.3	70	55.3	0	---	0	0	---	65.3	65.4	65.4	29.923	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:51 AM	65.2	65.3	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	24	1	100	1
9/23/2012	4:52 AM	65.2	65.2	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.922	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	23	1	100	1
9/23/2012	4:53 AM	65.2	65.2	65.2	70	55.2	0	---	0	0	---	65.2	65.2	65.2	29.923	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0754	24	1	100	1
9/23/2012	4:54 AM	65.1	65.2	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.924	0	0	0	0	60.8	59	46.4	59.5	10.95	0.0755	23	1	100	1
9/23/2012	4:55 AM	65.1	65.1	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.924	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	24	1	100	1
9/23/2012	4:56 AM	65.1	65.1	65.1	70	55.1	0	---	0	0	---	65.1	65.1	65.1	29.926	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	22	1	95.7	1
9/23/2012	4:57 AM	65	65.1	65	69	54.6	0	---	0	0	---	65	64.9	64.9	29.925	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	23	1	100	1
9/23/2012	4:58 AM	65	65	65	69	54.6	0	---	0	0	---	65	64.9	64.9	29.927	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	24	1	100	1
9/23/2012	4:59 AM	65	65	65	70	55	0	---	0	0	---	65	65	65	29.928	0	0	0	0	60.7	59	46.3	59.4	10.95	0.0755	23	1	100	1
9/23/2012	5:00 AM	65	65	64.9	69	54.6	0	---	0	0	---	65	64.9	64.9	29.927	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:01 AM	64.9	64.9	64.9	70	54.9	0	---	0	0	---	64.9	64.9	64.9	29.93	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:02 AM	64.9	64.9	64.9	70	54.9	0	---	0	0	---	64.9	64.9	64.9	29.931	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:03 AM	64.8	64.9	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.933	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:04 AM	64.8	64.8	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.934	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	22	1	95.7	1
9/23/2012	5:05 AM	64.8	64.8	64.8	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.935	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	24	1	100	1
9/23/2012	5:06 AM	64.8	64.8	64.7	70	54.8	0	---	0	0	---	64.8	64.8	64.8	29.935	0	0	0	0	60.5	59	46.1	59.2	10.95	0.0755	23	1	100	1
9/23/2012	5:07 AM	64.7	64.8	64.7	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.935	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:08 AM	64.7	64.8	64.7	71	55.1	0	---	0	0	---	64.7	64.7	64.7	29.939	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:09 AM	64.7	64.7	64.7	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.938	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	21	1	91.3	1
9/23/2012	5:10 AM	64.7	64.7	64.6	70	54.7	0	---	0	0	---	64.7	64.6	64.6	29.938	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:11 AM	64.6	64.6	64.6	70	54.6	0	---	0	0	---	64.6	64.5	64.5	29.94	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:12 AM	64.6	64.6	64.6	70	54.6	0	---	0	0	---	64.6	64.5	64.5	29.941	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	24	1	100	1
9/23/2012	5:13 AM	64.5	64.5	64.5	71	54.9	0	---	0	0	---	64.5	64.5	64.5	29.94	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	21	1	91.3	1
9/23/2012	5:14 AM	64.5	64.5	64.5	71	54.9	0	---	0	0	---	64.5	64.5	64.5	29.943	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:15 AM	64.4	64.5	64.4	71	54.8	0	---	0	0	---	64.4	64.3	64.3	29.945	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:16 AM	64.4	64.4	64.4	71	54.8	0	---	0	0	---	64.4	64.3	64.3	29.948	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:17 AM	64.3	64.3	64.3	71	54.7	0	---	0	0	---	64.3	64.2	64.2	29.946	0	0	0	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:18 AM	64.2	64.3	64.2	71	54.6	0	---	0	0	---	64.2	64.1	64.1	29.945	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:19 AM	64.1	64.2	64.1	71	54.5	0	---	0	0	---	64.1	64	64	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:20 AM	64.1	64.1	64.1	72	54.9	0	---	0	0	---	64.1	64	64	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:21 AM	64	64.1	64	72	54.8	0	---	0	0	---	64	63.9	63.9	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:22 AM	63.9	64	63.9	72	54.7	0	---	0	0	---	63.9	63.8	63.8	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:23 AM	63.9	63.9	63.9	72	54.7	0	---	0	0	---	63.9	63.8	63.8	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:24 AM	63.8	63.9	63.8	72	54.6	0	---	0	0	---	63.8	63.7	63.7	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:25 AM	63.8	63.8	63.8	72	54.6	0	---	0	0	---	63.8	63.7	63.7	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:26 AM	63.6	63.7	63.6	72	54.4	0	---	0	0	---	63.6	63.5	63.5	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:27 AM	63.6	63.6	63.6	72	54.4	0	---	0	0	---	63.6	63.5	63.5	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:28 AM	63.5	63.5	63.5	72	54.3	0	---	0	0	---	63.5	63.3	63.3	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:29 AM	63.4	63.5	63.4	73	54.6	0	---	0	0	---	63.4	63.3	63.3	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:30 AM	63.3	63.4	63.3	73	54.5	0	---	0	0	---	63.3	63.2	63.2	29.943	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:31 AM	63.2	63.3	63.2	70	53.3	0	---	0	0	---	63.2	62.9	62.9	29.944	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:32 AM	63.2	63.2	63.2	69	52.9	0	---	0	0	---	63.2	62.9	62.9	29.945	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:33 AM	63.2	63.2	63.1	69	52.9	0	---	0	0	---	63.2	62.9	62.9	29.946	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	22	1	95.7	1
9/23/2012	5:34 AM	63.1	63.2	63.1	67	52	0	---	0	0	---	63.1	62.6	62.6	29.946	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:35 AM	63.1	63.1	63.1	67	52	0	---	0	0	---	63.1	62.6	62.6	29.95	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	23	1	100	1
9/23/2012	5:36 AM	63.1	63.1	63	68	52.4	0	---	0	0	---	63.1	62.7	62.7	29.949	0	0	0.001	0	60.5	59	46.1	59.2	10.95	0.0756	24	1	100	1
9/23/2012	5:37 AM	63	63.1	63	70	53.1	0	---	0	0	---	63	62.7	62.7	29.952	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:38 AM	63	63	63	71	53.4	0	---	0	0	---	63	62.7	62.7	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:39 AM	62.9	63	62.9	66	51.4	0	---	0	0	---	62.9	62.3	62.3	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:40 AM	62.9	62.9	62.9	63	50.1	0	---	0	0	---	62.9	62.1	62.1	29.951	0	0	0.001	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:41 AM	62.8	62.9	62.8	66	51.3	0	---	0	0	---	62.8	62.2	62.2	29.949	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	22	1	95.7	1
9/23/2012	5:42 AM	62.8	62.8	62.8	67	51.7	0	---	0	0	---	62.8	62.3	62.3	29.951	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:43 AM	62.7	62.8	62.7	67	51.6	0	---	0	0	---	62.7	62.2	62.2	29.95	0	0	0.002	0	60.3	59	45.9	59	10.95	0.0756	23	1	100	1
9/23/2012	5:44 AM	62.6	62.7	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.949	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	24	1	100	1
9/23/2012	5:45 AM	62.6	62.6	62.6	68	51.9	0	---	0	0	---	62.6	62.1	62.1	29.95	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	22	1	95.7	1
9/23/2012	5:46 AM	62.5	62.6	62.5	67	51.4	0	---	0	0	---	62.5	62	62	29.954	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	24	1	100	1
9/23/2012	5:47 AM	62.5	62.5	62.5	67	51.4	0	---	0	0	---	62.5	62	62	29.954	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	23	1	100	1
9/23/2012	5:48 AM	62.3	62.4	62.3	67	51.2	0	---	0	0	---	62.3	61.7	61.7	29.953	0	0	0.002	0	60.2	59	45.8	58.9	10.95	0.0756	23	1	100	1
9/23/2012	5:49 AM	62.2	62.3	62.2	68	51.5	0	---	0	0	---	62.2	61.7	61.7	29.952	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	23	1	100	1
9/23/2012	5:50 AM	62.1	62.2	62.1	67	51	0	---	0	0	---	62.1	61.5	61.5	29.955	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	23	1	100	1
9/23/2012	5:51 AM	61.9	62	61.9	68	51.2	0	---	0	0	---	61.9	61.3	61.3	29.954	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	24	1	100	1
9/23/2012	5:52 AM	61.8	62	61.8	68	51.1	0	---	0	0	---	61.8	61.2	61.2	29.956	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	22	1	95.7	1
9/23/2012	5:53 AM	61.8	61.8	61.8	69	51.5	0	---	0	0	---	61.8	61.2	61.2	29.959	0	0	0.002	0	60	59	45.6	58.6	10.95	0.0757	24	1	100	1
9/23/2012	5:54 AM	61.7	61.8	61.7	68	51	0	---	0	0	---	61.7	61.1	61.1	29.957	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	23	1	100	1
9/23/2012	5:55 AM	61.6	61.7	61.6	67	50.5	0	---	0	0	---	61.6	60.9	60.9	29.959	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	22	1	95.7	1
9/23/2012	5:56 AM	61.5	61.6	61.5	67	50.4	0	---	0	0	---	61.5	60.8	60.8	29.959	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	24	1	100	1
9/23/2012	5:57 AM	61.4	61.5	61.4	68	50.7	0	---	0	0	---	61.4	60.8	60.8	29.96	0	0	0.002	0	59.9	59	45.5	58.5	10.95	0.0757	23	1	100	1
9/23/2012	5:58 AM	61.3	61.4	61.3	68	50.6	0	---	0	0	---	61.3	60.6	60.6	29.962	0	0	0.003	0	59.9	59	45.5	58.5	10.95	0.0757	24	1	100	1
9/23/2012	5:59 AM	61.2	61.3	61.2	69	50.9	0	---	0	0	---	61.2	60.6	60.6	29.965	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:00 AM	61.1	61.2	61.1	69	50.8	0	---	0	0	---	61.1	60.5	60.5	29.965	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:01 AM	61	61.1	61	69	50.8	0	---	0	0	---	61	60.4	60.4	29.964	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:02 AM	60.9	61	60.9	70	51	0	---	0	0	---	60.9	60.3	60.3	29.966	0	0	0.003	0	59.7	59	45.3	58.3	10.95	0.0757	23	1	100	1
9/23/2012	6:03 AM	60.8	60.9	60.8	70	51	0	---	0	0	---	60.8	60.2	60.2	29.966	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:04 AM	60.7	60.8	60.7	71	51.2	0	---	0	0	---	60.7	60.2	60.2	29.965	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:05 AM	60.5	60.6	60.5	71	51	0	---	0	0	---	60.5	60	60	29.968	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	23	1	100	1
9/23/2012	6:06 AM	60.4	60.5	60.4	72	51.3	0	---	0	0	---	60.4	59.9	59.9	29.971	0	0	0.003	0	59.6	59	45.2	58.2	10.95	0.0758	22	1	95.7	1
9/23/2012	6:07 AM	60.3	60.4	60.3	72	51.2	0	---	0	0	---	60.3	59.8	59.8	29.972	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	22	1	95.7	1
9/23/2012	6:08 AM	60.2	60.3	60.2	72	51.1	0	---	0	0	---	60.2	59.7	59.7	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:09 AM	60.2	60.2	60.2	71	50.8	0	---	0	0	---	60.2	59.6	59.6	29.969	0	0	0.003	0	59.4	59	45.1	58	10.95	0.0758	23	1	100	1
9/23/2012	6:10 AM	60.1	60.1	60.1	72	51	0	---	0	0	---	60.1	59.6	59.6	29.969	0	0	0.003	0	59.4	60	45.5	58.1	11.14	0.0758	23	1	100	1
9/23/2012	6:11 AM	60	60.1	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.969	0	0	0.003	0	59.3	60	45.4	58	11.14	0.0758	23	1	100	1
9/23/2012	6:12 AM	60	60	60	72	50.9	0	---	0	0	---	60	59.5	59.5	29.972	0	0	0.003	0	59.3	59	45	57.9	10.95	0.0758	20	1	87	1
9/23/2012	6:13 AM	59.9	60

Meteorological Data
Equity IRM

9/23/2012	7:31 AM	58.5	58.5	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.004	0	0	0.005	0	57.4	60	43.6	56.1	11.1	0.0762	23	1	100	1
9/23/2012	7:32 AM	58.6	58.6	58.5	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	24	1	100	1
9/23/2012	7:33 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.005	0	0	0.004	0	57.6	60	43.8	56.3	11.1	0.0762	23	1	100	1
9/23/2012	7:34 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.007	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0762	24	1	100	1
9/23/2012	7:35 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	57.7	60	43.9	56.4	11.1	0.0762	23	1	100	1
9/23/2012	7:36 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.004	0	0	0.004	0	57.9	60	44.1	56.6	11.11	0.0761	23	1	100	1
9/23/2012	7:37 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	24	1	100	1
9/23/2012	7:38 AM	58.6	58.6	58.6	70	48.8	0	---	0	0	---	58.6	57.9	57.9	30.006	0	0	0.004	0	58.1	60	44.3	56.8	11.11	0.0761	23	1	100	1
9/23/2012	7:39 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.007	0	0	0.004	0	58.2	60	44.4	56.9	11.11	0.0761	24	1	100	1
9/23/2012	7:40 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:41 AM	58.6	58.6	58.6	69	48.5	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	58.4	60	44.6	57.1	11.12	0.0761	23	1	100	1
9/23/2012	7:42 AM	58.6	58.6	58.6	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.011	0	0	0.004	0	58.5	59	44.2	57.1	10.95	0.0761	24	1	100	1
9/23/2012	7:43 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.011	0	0	0.005	0	58.7	59	44.4	57.3	10.95	0.076	23	1	100	1
9/23/2012	7:44 AM	58.5	58.6	58.5	68	48	0	---	0	0	---	58.5	57.7	57.7	30.008	0	0	0.005	0	58.7	59	44.4	57.3	10.95	0.076	24	1	100	1
9/23/2012	7:45 AM	58.5	58.6	58.5	69	48.4	0	---	0	0	---	58.5	57.7	57.7	30.01	0	0	0.005	0	58.8	59	44.5	57.4	10.95	0.076	23	1	100	1
9/23/2012	7:46 AM	58.6	58.6	58.5	67	47.7	0	---	0	0	---	58.6	57.7	57.7	30.006	0	0	0.004	0	59	59	44.7	57.6	10.95	0.076	24	1	100	1
9/23/2012	7:47 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	59	59	44.7	57.6	10.95	0.076	23	1	100	1
9/23/2012	7:48 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.009	0	0	0.004	0	59.1	59	44.8	57.7	10.95	0.076	23	1	100	1
9/23/2012	7:49 AM	58.6	58.6	58.6	68	48.1	0	---	0	0	---	58.6	57.8	57.8	30.01	0	0	0.004	0	59.3	59	45	57.9	10.95	0.0759	24	1	100	1
9/23/2012	7:50 AM	58.7	58.7	58.6	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.012	0	0	0.004	0	59.4	59	45.1	58	10.95	0.0759	23	1	100	1
9/23/2012	7:51 AM	58.7	58.7	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.011	0	0	0.004	0	59.4	59	45.1	58	10.95	0.0759	23	1	100	1
9/23/2012	7:52 AM	58.7	58.7	58.7	67	47.8	0	---	0	0	---	58.7	57.8	57.8	30.011	0	0	0.004	0	59.6	59	45.2	58.2	10.95	0.0759	23	1	100	1
9/23/2012	7:53 AM	58.7	58.8	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.013	0	0	0.004	0	59.7	59	45.3	58.3	10.95	0.0759	22	1	95.7	1
9/23/2012	7:54 AM	58.7	58.7	58.7	68	48.2	0	---	0	0	---	58.7	57.9	57.9	30.012	0	0	0.004	0	59.7	59	45.3	58.3	10.95	0.0759	24	1	100	1
9/23/2012	7:55 AM	58.7	58.7	58.7	67	47.8	0	---	0	0	---	58.7	57.8	57.8	30.015	0	0	0.004	0	59.9	59	45.5	58.5	10.95	0.0758	23	1	100	1
9/23/2012	7:56 AM	58.8	58.8	58.7	68	48.3	0	---	0	0	---	58.8	58	58	30.015	0	0	0.004	0	60	59	45.6	58.6	10.95	0.0758	23	1	100	1
9/23/2012	7:57 AM	58.8	58.8	58.8	68	48.3	0	---	0	0	---	58.8	58	58	30.017	0	0	0.004	0	60.2	59	45.8	58.9	10.95	0.0758	22	1	95.7	1
9/23/2012	7:58 AM	58.8	58.8	58.8	67	47.9	0	---	0	0	---	58.8	57.9	57.9	30.016	0	0	0.004	0	60.2	59	45.8	58.9	10.95	0.0758	23	1	100	1
9/23/2012	7:59 AM	58.9	58.9	58.8	67	48	0	---	0	0	---	58.9	58	58	30.019	0	0	0.004	0	60.3	59	45.9	59	10.95	0.0758	23	1	100	1
9/23/2012	8:00 AM	58.9	58.9	58.9	67	48	0	---	0	0	---	58.9	58	58	30.018	0	0	0.004	0	60.5	59	46.1	59.2	10.95	0.0757	23	1	100	1
9/23/2012	8:01 AM	59	59	58.9	67	48.1	0	---	0	0	---	59	58.1	58.1	30.016	0	0	0.004	0	60.7	59	46.3	59.4	10.95	0.0757	23	1	100	1
9/23/2012	8:02 AM	59	59	58.9	66	47.7	0	---	0	0	---	59	58.1	58.1	30.019	0	0	0.004	0	60.7	59	46.3	59.4	10.95	0.0757	22	1	95.7	1
9/23/2012	8:03 AM	58.9	59	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	60.8	59	46.4	59.5	10.95	0.0757	23	1	100	1
9/23/2012	8:04 AM	58.9	59	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	61	59	46.6	59.7	10.95	0.0757	22	1	95.7	1
9/23/2012	8:05 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.02	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.0756	22	1	95.7	1
9/23/2012	8:06 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.021	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.0756	23	1	100	1
9/23/2012	8:07 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.02	0	0	0.004	0	61.3	59	46.8	60	10.95	0.0756	23	1	100	1
9/23/2012	8:08 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.022	0	0	0.004	0	61.4	59	46.9	60.1	10.95	0.0756	23	1	100	1
9/23/2012	8:09 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.018	0	0	0.004	0	61.6	59	47.1	60.3	10.95	0.0756	23	1	100	1
9/23/2012	8:10 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.021	0	0	0.004	0	61.6	59	47.1	60.3	10.95	0.0756	22	1	95.7	1
9/23/2012	8:11 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.024	0	0	0.004	0	61.8	59	47.3	60.5	10.95	0.0755	24	1	100	1
9/23/2012	8:12 AM	58.9	58.9	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.024	0	0	0.004	0	61.9	59	47.4	60.6	10.95	0.0755	23	1	100	1
9/23/2012	8:13 AM	58.9	58.9	58.9	65	47.2	0	---	0	0	---	58.9	57.9	57.9	30.026	0	0	0.004	0	62.1	59	47.6	60.8	10.95	0.0755	24	1	100	1
9/23/2012	8:14 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.2	59	47.7	61	10.95	0.0755	23	1	100	1
9/23/2012	8:15 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.027	0	0	0.004	0	62.2	59	47.7	61	10.95	0.0755	24	1	100	1
9/23/2012	8:16 AM	58.9	59	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.025	0	0	0.004	0	62.4	59	47.9	61.2	10.95	0.0754	21	1	91.3	1
9/23/2012	8:17 AM	59	59	58.9	64	46.8	0	---	0	0	---	59	57.9	57.9	30.027	0	0	0.004	0	62.5	59	48	61.3	10.95	0.0754	23	1	100	1
9/23/2012	8:18 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.7	59	48.2	61.5	10.95	0.0754	24	1	100	1
9/23/2012	8:19 AM	58.9	59	58.9	64	46.7	0	---	0	0	---	58.9	57.8	57.8	30.028	0	0	0.004	0	62.9	59	48.3	61.7	10.95	0.0753	23	1	100	1
9/23/2012	8:20 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	62.9	59	48.3	61.7	10.95	0.0753	24	1	100	1
9/23/2012	8:21 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.026	0	0	0.004	0	63	58	48	61.8	10.75	0.0753	23	1	100	1
9/23/2012	8:22 AM	59	59	59	64	46.8	0	---	0	0	---	59	57.9	57.9	30.024	0	0	0.004	0	63.2	58	48.2	62	10.75	0.0753	23	1	100	1
9/23/2012	8:23 AM	59.1	59.1	59	64	46.9	0	---	0	0	---	59.1	58	58	30.024	0	0	0.004	0	63.3	58	48.3	62.1	10.75	0.0753	24	1	100	1
9/23/2012	8:24 AM	59.1	59.1	59	64	46.9	0	---	0	0	---	59.1	58	58	30.022	0	0	0.004	0	63.5	58	48.5	62.4	10.75	0.0752	23	1	100	1
9/23/2012	8:25 AM	59.1	59.1	59.1	64	46.9	0	---	0	0	---	59.1	58	58	30.025	0	0	0.004	0	63.5	58	48.5	62.4	10.75	0.0753	24	1	100	1
9/23/2012	8:26 AM	59.1	59.1	59.1	64	46.9	0	---	0	0	---	59.1	58	58	30.028	0	0	0.004	0	63.6	58	48.5	62.5	10.75	0.0752	23	1	100	1
9/23/2012	8:27 AM	59.1	59.1	59.1	62	46.1	0	---	0	0	---	59.1	57.9	57.9	30.027	0	0	0.004	0	63.8	58	48.7	62.7	10.75	0.0752	24	1	100	1
9/23/2012	8:28 AM	59.1	59.1	59.1	62	46.1	0	---	0	0	---	59.1	57.9	57.9	30.023	0	0	0.004	0	64	58	48.9	62.9	10.75	0.0752	23	1	100	1
9/23/2012	8:29 AM	59.1	59.1	59.1	63	46.5	0	---	0	0	---	59.1	58	58	30.025	0	0	0.004	0	64.1	58	49	63	10.75	0.0751	23	1	100	1
9/23/2012	8:30 AM	59.1	59.1	59.1	63	46.5	0	---	0	0	---	59.1	58	58	30.026	0	0	0.004	0	64.3	58	49.2	63.3	10.75	0.0751	24	1	100	1
9/23/2012	8:31 AM	59.2	59.2	59.1	62	46.2	0	---	0	0	---	59.2	58	58	30.027	0	0	0.004	0	64.3	58	49.2	63.3	10.75	0.0751	22	1	95.7	1
9/23/2012	8:32 AM	59.2	59.2	59.2	63	46.6	0	---	0	0	---	59.2	58.1	58.1	30.029	0	0	0.004	0	64.5	58	49.4	63.5	10.75	0.0751	24	1	100	1
9/23/2012	8:33 AM	59.2	59.2	59.2	62	46.2	0	---	0	0	---	59.2	58	58	30.032	0	0	0.004	0	64.6	58	49.5	63.6	10.75	0.0751	23	1	100	1
9/23/2012	8:34 AM	59.2	59.2	59.2	62	46.2	0	---	0	0	---	59.2	58	58	30.03	0	0	0.004	0	64.8	58	49.7	63.8	10.75	0.075	23	1	100	1
9/23/2012	8:35 AM	59.2	59.2	59.2	63	46.6	0	---	0	0	---	59.2	58.1	58.1	30.029	0	0	0.004	0	64.8	58	49.7	63.8	10.75	0.075	24	1	100	1
9/23/2012	8:36 AM	59.3	59.3	59.2	63	46.7	0	---	0	0	---	59.3	58.2	58.2	30.031	0	0	0.004	0	64.9	58	49.8	63.9	10.75	0.075	23	1	100	1
9/23/2012	8:37 AM	59.4	59.4	59.3	62	46.4	0	---	0	0	---	59.4	58.2	58.2	30.032	0	0	0.004	0	65.1	58	50	64.2	10.75	0.075	24	1	100	1
9/23/2012	8:38 AM	59.4	59.4	59.3	62	46.4	0	---	0	0	---	59.4	58.2	58.2	30.031	0	0	0.004	0	65.1	58	50	64.2	10.75	0.075	23	1	100	1
9/23/2012	8:39 AM	59.5	59.5	59.4	62	46.5	0	---	0	0	---	59.5	58.3	58.3	30.03	0	0	0.004	0	65.3	58	50.1	64.4	10.75	0.075	24	1	100	1
9/23/2012	8:40 AM	59.6	59.6	59.5	63	47	0	---	0	0	---	59.6	58.5	58.5	30.03	0	0	0.004	0	65.4	58	50.2	64.5	10.75	0.0749	23	1	100	1
9/23/2012	8:41 AM	59.6	59.6	59.6	62	46.6	0	---	0	0	---	59.6	58.4	58.4	30.029	0	0	0.004	0	65.6	58	50.4	64.7	10.75	0.0749	23	1	100	1
9/23/2012	8:42 AM	59.7	59.7	59.6	62	46.7	0	---	0	0	---	59.7	58.5	58.5	30.029	0	0	0.004	0	65.6	58	50.4	64.7	10.75	0.0749	24	1	100	1
9/23/2012	8:43 AM	59.8	59.8	59.7	62	46.7	0	---	0	0	---	59.8	58.7	58.7	30.029	0	0	0.004	0	65.8	58	50.6	64.9	10.75	0.0749	23	1	100	1
9/23/2012	8:44 AM	59.8	59.8	59.8	61	46.3	0	---	0	0	---	59.8	58.6	58.6	30.029	0	0	0.004	0	65.9	58	50.7	65	10.75	0.0748	24	1	100	1
9/23/2012	8:45 AM	59.9	59.9	59.9	61	46.4	0	---	0	0	---	59.9	58.7	58.7	30.03	0	0	0.004	0	66.1	58	50.9	65.3	10.75	0.0748	23	1	100	1
9/23/2012	8:46 AM	60	60	59.9	61	46.5	0	---	0	0	---	60	58.8	58.8	30.031	0	0	0.003	0	66.2	57	50.5	65.3	10.63	0.0748	23	1	100	1
9/23/2012	8:47 AM	60.2	60.2	60	62	47.1	0	---	0	0	---	60.2	59.1	59.1	30.031	0	0	0.003	0	66.4	57	50.7	65.5	10.62	0.0748	23	1	100	1
9/23/2012	8:48 AM	60.3	60.3	60.2	61	46.8	0	---	0	0	---	60.3	59.1	59.1	30.033	0	0	0.003	0	66.4	57	50.7	65.5	10.62	0.0748	23	1	100	1
9/23/2012	8:49 AM	60.3	60.3	60.2	61	46.8	0	---	0	0	---	60.3	59.1	59.1	30.03	0	0	0.003	0	66.6	57	50.9	65.8	10.62	0.0747	24	1	100	1
9/23/2012	8:50 AM	60.2	60.3	60.2	60	46.3	0	---	0	0	---	60.2	58.9	58.9	30.03	0	0	0.003	0	66.7	57	51	65.9	10.62	0.0747	23	1	100	1
9/23/2012	8:51 AM	60.2	60.3	60.2	59	45.8	0	---	0	0	---	60.2	58.9	58.9	30.034	0	0	0.003	0	66.9	57	51.2	66.1	10.61	0.0747	22	1	95.7	1
9/23/2012	8:52 AM	60	60.1	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.034	0	0	0.003	0	67	57	51.3	66.3	10.61	0.0747	24	1	100	1
9/23/2012	8:53 AM	60	60	59.9	60	46.1	0	---	0	0	---	60	58.7	58.7	30.034	0	0	0.003	0	67.2	57	51.4	66.5	10.61	0.0746	22	1	95.7	1
9/23/2012	8:54 AM	59.9	60	59.9	60	46	0	---	0	0	---	59.9	58.6	58.6	30.035	0	0	0.004	0	67.4	57	51.6	66.7	10.6	0.0746	24	1	100	1
9/23/2012	8:55 AM	59.9	59.9	59.9	61	46.4	0	---	0	0	---	59.9	58.7	58.7	30.035	0	0	0.004	0	67.5	57	51.7	66.8	10.6	0.0746	22	1	95.7	1
9/23/2012	8:56 AM	60	60	59.9	60	46.1	0	---	0	0	---	60	58.7	58.7	30.036	0	0	0.003	0	67.7	57	51.9	67.1	10.6	0.0746	24	1	100	1
9/23/2012	8:57 AM	60	60	59.9	61	46.5	0	---	0	0	---	60	58.8	58.8	30.033	0	0	0.003	0	67.9	57	52.1	67.3	10.59	0.0745	22	1	95.7	1
9/23/2012	8:58 AM	60	60	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.037	0	0	0.003	0	68	57	52.2	67.4	10.59	0.0745	22	1	95.7	1
9/23/2012	8:59 AM	60.1	60.1	60	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.035	0	0	0.003	0	68	57	52.2	67.4	10.59	0.0745	24	1	100	1
9/23/2012	9:00 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.035	0	0	0.003	0	68.2	57	52.4	67.6	10.59	0.0745	22	1	95.7	1
9/23/2012	9:01 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.033	0	0	0.003	0	68.4	57	52.6	67.7	10.58	0.0744	24	1	100	1
9/23/2012	9:02 AM	60.1	60.1	60.1	60	46.2	0	---	0	0	---	60.1	58.8	58.8	30.034	0	0	0.003	0	68.5	57	52.7	67.8	10.58	0.0744	22	1	95.7	1
9/23/2012	9:03 AM	60	60.1	60	60	46.1	0	---	0	0	---	60	58.7	58.7	30.035	0	0	0.003	0	68.7	56	52.4	67.8	10.38	0.0744	23	1	100	1
9/23/2012	9:04 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.035	0	0	0.003	0	68.9	56	52.6	68	10.37	0.0744	23	1	100	1
9/23/2012	9:05 AM	60.1	60.1	60	61	46.6	0	---	0	0	---	60.1	58.9	58.9	30.036	0	0	0.003	0	69	56	52.6	68.1	10.37	0.0744	23	1	100	1
9/23/2012	9:06 AM	60.2	60.2	60.1	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.2	56	52.8	68.2	10.37	0.0743	23	1	100	1
9/23/2012	9:07 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.037	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	23	1	100	1
9/23/2012	9:08 AM	60.2	60.2	60.2	61	46.7	0	---	0	0	---	60.2	59	59	30.038	0	0	0.003	0	69.4	56	53	68.4	10.36	0.0743	24	1	100	1
9/23/2012	9:09 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.04	0	0	0.003	0	69.6	56	53.2	68.5	10.36	0.0743	23	1	100	1
9/23/2012	9:10 AM	60.3	60.3	60.3	60	46.4	0	---	0	0	---	60.3	59	59	30.038	0	0	0.003	0	69.7	56	53.3	68.6	10.36	0.0742	23	1	100	1
9/23/2012	9:11 AM	60.4	60.4	60.3	60	46.4	0	---	0	0	---	60.4	59.1	59.1	30.04	0	0	0.003	0	69.9	56	53.5	68.7	10.35	0.0742	24	1	100	1
9/23/2012	9:12 AM	60.5	60.5	60.4	61	47	0	---	0	0	---	60.5	59.3	59.3	30.041	0	0	0.003	0	70.1	56	53.7	68.9	10.35	0.0742	23	1	100	1
9/23/2012	9:13 AM	60.6	60.6	60.5

Meteorological Data
Equity IRM

9/23/2012	10:31 AM	62.7	62.7	62.6	54	45.8	0	---	0	0	---	62.7	61.2	61.2	30.055	0	0	0.002	0	81.2	50	60.8	81.5	9.13	0.0724	23	1	100	1
9/23/2012	10:32 AM	62.8	62.8	62.7	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.056	0	0	0.002	0	81.4	50	61	81.8	9.12	0.0724	22	1	95.7	1
9/23/2012	10:33 AM	62.9	62.9	62.8	53	45.5	0	---	0	0	---	62.9	61.3	61.3	30.055	0	0	0.001	0	81.4	50	61	81.8	9.12	0.0724	24	1	100	1
9/23/2012	10:34 AM	63	63	62.9	52	45.1	0	---	0	0	---	63	61.3	61.3	30.056	0	0	0.001	0	81.6	50	61.2	82	9.12	0.0723	23	1	100	1
9/23/2012	10:35 AM	63	63	63	52	45.1	0	---	0	0	---	63	61.3	61.3	30.056	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:36 AM	62.9	63	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.053	0	0	0.001	0	81.8	50	61.3	82.3	9.11	0.0723	23	1	100	1
9/23/2012	10:37 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.055	0	0	0.001	0	82	50	61.5	82.6	9.11	0.0722	22	1	95.7	1
9/23/2012	10:38 AM	62.8	62.9	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.056	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	24	1	100	1
9/23/2012	10:39 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.1	50	61.6	82.8	9.11	0.0722	22	1	95.7	1
9/23/2012	10:40 AM	62.7	62.8	62.7	51	44.3	0	---	0	0	---	62.7	60.9	60.9	30.055	0	0	0.002	0	82.3	50	61.8	83.1	9.1	0.0722	23	1	100	1
9/23/2012	10:41 AM	62.8	62.8	62.7	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.057	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	22	1	95.7	1
9/23/2012	10:42 AM	62.8	62.8	62.8	52	44.9	0	---	0	0	---	62.8	61.1	61.1	30.055	0	0	0.002	0	82.5	50	62	83.4	9.1	0.0722	23	1	100	1
9/23/2012	10:43 AM	62.9	62.9	62.8	51	44.5	0	---	0	0	---	62.9	61.1	61.1	30.057	0	0	0.001	0	82.7	50	62.2	83.7	9.1	0.0721	23	1	100	1
9/23/2012	10:44 AM	62.9	62.9	62.9	52	45	0	---	0	0	---	62.9	61.2	61.2	30.059	0	0	0.001	0	82.9	50	62.4	84	9.09	0.0721	22	1	95.7	1
9/23/2012	10:45 AM	63	63	62.9	53	45.6	0	---	0	0	---	63	61.4	61.4	30.055	0	0	0.001	0	82.9	49	61.8	83.9	8.89	0.0721	24	1	100	1
9/23/2012	10:46 AM	63.1	63.1	63	52	45.2	0	---	0	0	---	63.1	61.4	61.4	30.055	0	0	0.001	0	83.1	49	62	84.2	8.89	0.0721	21	1	91.3	1
9/23/2012	10:47 AM	63.1	63.1	63.1	51	44.7	0	---	0	0	---	63.1	61.3	61.3	30.055	0	0	0.001	0	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/23/2012	10:48 AM	63.2	63.2	63.1	51	44.8	0	---	0	0	---	63.2	61.4	61.4	30.054	0	0	0.001	0	83.3	49	62.1	84.5	8.88	0.072	20	1	87	1
9/23/2012	10:49 AM	63.3	63.3	63.2	51	44.9	0	---	0	0	---	63.3	61.5	61.5	30.057	0	0	0.001	0	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/23/2012	10:50 AM	63.4	63.4	63.3	51	44.9	0	---	0	0	---	63.4	61.6	61.6	30.055	0	0	0.001	0	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/23/2012	10:51 AM	63.4	63.5	63.4	52	45.5	0	---	0	0	---	63.4	61.7	61.7	30.055	0	0	0.001	0	83.7	49	62.5	85.2	8.88	0.072	23	1	100	1
9/23/2012	10:52 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.055	0	0	0.001	0	83.7	49	62.5	85.2	8.88	0.072	24	1	100	1
9/23/2012	10:53 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.054	0	0	0.001	0	83.9	49	62.7	85.5	8.87	0.0719	23	1	100	1
9/23/2012	10:54 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.055	0	0	0.001	0	83.9	49	62.7	85.5	8.87	0.0719	24	1	100	1
9/23/2012	10:55 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.054	0	0	0.001	0	84.1	49	62.9	85.8	8.87	0.0719	23	1	100	1
9/23/2012	10:56 AM	63.5	63.5	63.5	50	44.5	0	---	0	0	---	63.5	61.7	61.7	30.056	0	0	0.001	0	84.3	49	63.1	86	8.86	0.0719	23	1	100	1
9/23/2012	10:57 AM	63.5	63.5	63.5	51	45	0	---	0	0	---	63.5	61.8	61.8	30.056	0	0	0.001	0	84.3	49	63.1	86	8.86	0.0719	23	1	100	1
9/23/2012	10:58 AM	63.6	63.6	63.5	51	45.1	0	---	0	0	---	63.6	61.9	61.9	30.054	0	0	0.001	0	84.5	49	63.2	86.2	8.86	0.0718	23	1	100	1
9/23/2012	10:59 AM	63.8	63.8	63.6	50	44.8	0	---	0	0	---	63.8	62	62	30.053	0	0	0.001	0	84.7	49	63.4	86.3	8.86	0.0718	24	1	100	1
9/23/2012	11:00 AM	63.9	63.9	63.8	49	44.4	0	---	0	0	---	63.9	62	62	30.053	0	0	0.001	0	84.7	48	62.8	86.2	8.76	0.0718	23	1	100	1
9/23/2012	11:01 AM	64	64	63.9	49	44.4	0	---	0	0	---	64	62.1	62.1	30.053	0	0	0.001	0	84.9	48	63	86.4	8.75	0.0718	22	1	95.7	1
9/23/2012	11:02 AM	64	64	64	49	44.4	0	---	0	0	---	64	62.1	62.1	30.056	0	0	0.001	0	84.9	48	63	86.4	8.75	0.0718	24	1	100	1
9/23/2012	11:03 AM	64	64.1	64	50	45	0	---	0	0	---	64	62.2	62.2	30.055	0	0	0.001	0	85.1	48	63.2	86.6	8.75	0.0718	23	1	100	1
9/23/2012	11:04 AM	64	64	64	49	44.4	0	---	0	0	---	64	62.1	62.1	30.054	0	0	0.001	0	85.3	48	63.4	86.9	8.74	0.0717	23	1	100	1
9/23/2012	11:05 AM	64.1	64.1	64	49	44.5	0	---	0	0	---	64.1	62.2	62.2	30.052	0	0	0.001	0	85.3	48	63.4	86.9	8.74	0.0717	23	1	100	1
9/23/2012	11:06 AM	64.1	64.1	64.1	49	44.5	0	---	0	0	---	64.1	62.2	62.2	30.051	0	0	0.001	0	85.5	48	63.6	87.1	8.74	0.0717	24	1	100	1
9/23/2012	11:07 AM	64.1	64.1	64.1	50	45.1	0	---	0	0	---	64.1	62.3	62.3	30.052	0	0	0.001	0	85.7	48	63.8	87.4	8.74	0.0716	23	1	100	1
9/23/2012	11:08 AM	64.2	64.2	64.1	50	45.2	0	---	0	0	---	64.2	62.4	62.4	30.053	0	0	0.001	0	85.7	48	63.8	87.4	8.74	0.0716	23	1	100	1
9/23/2012	11:09 AM	64.4	64.4	64.3	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	85.9	48	63.9	87.6	8.73	0.0716	24	1	100	1
9/23/2012	11:10 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.056	0	0	0	0	86.1	48	64.1	87.9	8.73	0.0716	22	1	95.7	1
9/23/2012	11:11 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	86.1	48	64.1	87.9	8.73	0.0716	24	1	100	1
9/23/2012	11:12 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.054	0	0	0	0	86.3	48	64.3	88.3	8.72	0.0715	23	1	100	1
9/23/2012	11:13 AM	64.4	64.4	64.4	49	44.8	0	---	0	0	---	64.4	62.6	62.6	30.053	0	0	0	0	86.3	48	64.3	88.3	8.72	0.0715	23	1	100	1
9/23/2012	11:14 AM	64.5	64.5	64.4	50	45.4	0	---	0	0	---	64.5	62.8	62.8	30.051	0	0	0	0	86.5	47	63.9	88.4	8.52	0.0715	23	1	100	1
9/23/2012	11:15 AM	64.6	64.6	64.5	50	45.5	0	---	0	0	---	64.6	62.9	62.9	30.052	0	0	0	0	86.5	47	63.9	88.4	8.52	0.0715	23	1	100	1
9/23/2012	11:16 AM	64.7	64.7	64.6	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.053	0	0	0	0	86.7	47	64.1	88.7	8.52	0.0715	24	1	100	1
9/23/2012	11:17 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.051	0	0	0	0	86.7	47	64.1	88.7	8.52	0.0715	23	1	100	1
9/23/2012	11:18 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.052	0	0	0	0	86.9	47	64.2	89	8.51	0.0715	23	1	100	1
9/23/2012	11:19 AM	64.7	64.7	64.7	48	44.5	0	---	0	0	---	64.7	62.8	62.8	30.051	0	0	0	0	86.9	47	64.2	89	8.51	0.0715	23	1	100	1
9/23/2012	11:20 AM	64.7	64.7	64.7	49	45.1	0	---	0	0	---	64.7	62.9	62.9	30.053	0	0	0	0	87.1	47	64.4	89.3	8.51	0.0714	23	1	100	1
9/23/2012	11:21 AM	64.8	64.8	64.8	48	44.6	0	---	0	0	---	64.8	62.9	62.9	30.052	0	0	0	0	87.3	47	64.6	89.6	8.5	0.0714	24	1	100	1
9/23/2012	11:22 AM	64.9	64.9	64.8	48	44.7	0	---	0	0	---	64.9	63	63	30.051	0	0	0	0	87.3	47	64.6	89.6	8.5	0.0714	23	1	100	1
9/23/2012	11:23 AM	64.9	64.9	64.9	48	44.7	0	---	0	0	---	64.9	63	63	30.052	0	0	0	0	87.5	47	64.8	89.8	8.5	0.0714	24	1	100	1
9/23/2012	11:24 AM	64.9	64.9	64.9	47	44.2	0	---	0	0	---	64.9	62.9	62.9	30.049	0	0	0	0	87.7	47	65	90	8.5	0.0713	23	1	100	1
9/23/2012	11:25 AM	64.9	64.9	64.9	47	44.2	0	---	0	0	---	64.9	62.9	62.9	30.052	0	0	0	0	87.7	47	65	90	8.5	0.0713	21	1	91.3	1
9/23/2012	11:26 AM	65	65	64.9	48	44.8	0	---	0	0	---	65	63.1	63.1	30.051	0	0	0	0	88	47	65.2	90.4	8.49	0.0713	24	1	100	1
9/23/2012	11:27 AM	65.1	65.1	65	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.052	0	0	0	0	88	47	65.2	90.4	8.49	0.0713	22	1	95.7	1
9/23/2012	11:28 AM	65.1	65.1	65.1	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.053	0	0	0	0	88.2	46	64.8	90.5	8.39	0.0713	24	1	100	1
9/23/2012	11:29 AM	65.1	65.1	65.1	47	44.4	0	---	0	0	---	65.1	63.1	63.1	30.053	0	0	0	0	88.4	46	65	90.9	8.38	0.0712	21	1	91.3	1
9/23/2012	11:30 AM	65.1	65.1	65.1	46	43.8	0	---	0	0	---	65.1	63	63	30.052	0	0	0	0	88.4	46	65	90.9	8.38	0.0712	23	1	100	1
9/23/2012	11:31 AM	65.2	65.2	65.1	47	44.5	0	---	0	0	---	65.2	63.2	63.2	30.051	0	0	0	0	88.6	46	65.2	91.4	8.38	0.0712	23	1	100	1
9/23/2012	11:32 AM	65.2	65.2	65.2	47	44.5	0	---	0	0	---	65.2	63.2	63.2	30.05	0	0	0	0	88.6	46	65.2	91.4	8.38	0.0712	23	1	100	1
9/23/2012	11:33 AM	65.3	65.3	65.2	47	44.5	0	---	0	0	---	65.3	63.3	63.3	30.051	0	0	0	0	88.8	46	65.4	91.8	8.37	0.0712	23	1	100	1
9/23/2012	11:34 AM	65.4	65.4	65.3	44	42.9	0	---	0	0	---	65.4	63.2	63.2	30.052	0	0	0	0	88.8	46	65.4	91.8	8.37	0.0712	22	1	95.7	1
9/23/2012	11:35 AM	65.6	65.6	65.5	46	44.3	0	---	0	0	---	65.6	63.6	63.6	30.05	0	0	0	0	89	46	65.5	92.3	8.37	0.0711	24	1	100	1
9/23/2012	11:36 AM	65.7	65.7	65.6	45	43.8	0	---	0	0	---	65.7	63.6	63.6	30.054	0	0	0	0	89	46	65.5	92.3	8.37	0.0711	21	1	91.3	1
9/23/2012	11:37 AM	65.8	65.8	65.7	43	42.7	0	---	0	0	---	65.8	63.5	63.5	30.054	0	0	0	0.001	89.2	46	65.7	92.5	8.37	0.0711	23	1	100	1
9/23/2012	11:38 AM	65.8	65.8	65.8	42	42.1	0	---	0	0	---	65.8	63.4	63.4	30.052	0	0	0	0.001	89.2	46	65.7	92.5	8.37	0.0711	24	1	100	1
9/23/2012	11:39 AM	65.9	65.9	65.9	42	42.1	0	---	0	0	---	65.9	63.5	63.5	30.053	0	0	0	0.001	89.4	46	65.9	92.8	8.36	0.071	23	1	100	1
9/23/2012	11:40 AM	65.9	66	65.9	41	41.5	0	---	0	0	---	65.9	63.4	63.4	30.051	0	0	0	0.001	89.4	46	65.9	92.8	8.36	0.071	24	1	100	1
9/23/2012	11:41 AM	66	66	65.9	41	41.6	0	---	0	0	---	66	63.5	63.5	30.049	0	0	0	0.001	89.6	46	66.1	93.1	8.36	0.071	23	1	100	1
9/23/2012	11:42 AM	66	66	66	39	40.3	0	---	0	0	---	66	63.3	63.3	30.05	0	0	0	0.001	89.6	45	65.4	92.7	8.16	0.071	23	1	100	1
9/23/2012	11:43 AM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.052	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	24	1	100	1
9/23/2012	11:44 AM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.051	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	23	1	100	1
9/23/2012	11:45 AM	65.9	65.9	65.9	39	40.2	0	---	0	0	---	65.9	63.2	63.2	30.049	0	0	0	0.001	89.8	45	65.6	93	8.15	0.071	24	1	100	1
9/23/2012	11:46 AM	66	66	65.9	41	41.6	0	---	0	0	---	66	63.5	63.5	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:47 AM	66.1	66.1	66	41	41.7	0	---	0	0	---	66.1	63.6	63.6	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	22	1	95.7	1
9/23/2012	11:48 AM	66.1	66.1	66.1	41	41.7	0	---	0	0	---	66.1	63.6	63.6	30.051	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:49 AM	66.1	66.2	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:50 AM	66	66.1	66	38	39.7	0	---	0	0	---	66	63.2	63.2	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:51 AM	66.1	66.1	66	38	39.7	0	---	0	0	---	66.1	63.3	63.3	30.05	0	0	0	0.001	90.1	45	65.9	93.5	8.15	0.071	23	1	100	1
9/23/2012	11:52 AM	66.2	66.2	66.1	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	24	1	100	1
9/23/2012	11:53 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.052	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:54 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.05	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:55 AM	66.2	66.2	66.2	38	39.8	0	---	0	0	---	66.2	63.4	63.4	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:56 AM	66.2	66.2	66.2	37	39.1	0	---	0	0	---	66.2	63.3	63.3	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	23	1	100	1
9/23/2012	11:57 AM	66.2	66.2	66.2	39	40.5	0	---	0	0	---	66.2	63.5	63.5	30.051	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	24	1	100	1
9/23/2012	11:58 AM	66.4	66.4	66.2	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.049	0	0	0	0.001	90.3	45	66.1	93.8	8.15	0.0709	22	1	95.7	1
9/23/2012	11:59 AM	66.5	66.5	66.4	37	39.4	0	---	0	0	---	66.5	63.6	63.6	30.049	0	0	0	0.001	90.3	44	65.4	93.4	8.04	0.0709	24	1	100	1
9/23/2012	12:00 PM	66.6	66.6	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.049	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	21	1	91.3	1
9/23/2012	12:01 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.048	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	22	1	95.7	1
9/23/2012	12:02 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:03 PM	66.7	66.7	66.6	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:04 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.049	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	24	1	100	1
9/23/2012	12:05 PM	66.7	66.8	66.7	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	23	1	100	1
9/23/2012	12:06 PM	66.7	66.8	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.5	44	65.6	93.8	8.04	0.0709	22	1	95.7	1
9/23/2012	12:07 PM	66.6	66.7	66.6	38	40.2	0	---	0	0	---	66.6	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:08 PM	66.4	66.5	66.4	38	40	0	---	0	0	---	66.4	63.6	63.6	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	23	1	100	1
9/23/2012	12:09 PM	66.4	66.4	66.4	40	41.3	0	---	0	0	---	66.4	63.8	63.8	30.047	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:10 PM	66.5	66.5	66.5	39	40.8	0	---	0	0	---	66.5	63.8	63.8	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	22	1	95.7	1
9/23/2012	12:11 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.05	0	0	0	0.001	90.7	44	65.8	94.1	8.04	0.0709	24	1	100	1
9/23/2012	12:12 PM	66.7	66.7	66.7	38	40.3	0	---	0	0	---	66.7	63.9	63.9	30.051	0	0	0	0.001	90.9	44	66	94.5	8.03	0.0708	22	1	95.7	1

Meteorological Data
Equity IRM

9/23/2012	1:31 PM	68.8	68.8	68.7	36	40.7	0	---	0	0	---	68.8	65.9	65.9	30.042	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	21	1	91.3	1
9/23/2012	1:32 PM	68.7	68.7	68.7	36	40.7	0	---	0	0	---	68.7	65.8	65.8	30.04	0	0	0	0.003	94	42	67.4	99.2	7.59	0.0703	21	1	91.3	1
9/23/2012	1:33 PM	68.6	68.7	68.6	37	41.3	0	---	0	0	---	68.6	65.8	65.8	30.042	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	22	1	95.7	1
9/23/2012	1:34 PM	68.6	68.6	68.6	37	41.3	0	---	0	0	---	68.6	65.8	65.8	30.04	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	22	1	95.7	1
9/23/2012	1:35 PM	68.5	68.5	68.5	37	41.2	0	---	0	0	---	68.5	65.7	65.7	30.04	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:36 PM	68.3	68.5	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.039	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:37 PM	68.3	68.3	68.3	37	41	0	---	0	0	---	68.3	65.5	65.5	30.038	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:38 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.037	0	0	0	0.002	94	42	67.4	99.2	7.59	0.0703	23	1	100	1
9/23/2012	1:39 PM	68.3	68.3	68.3	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:40 PM	68.4	68.4	68.4	39	42.5	0	---	0	0	---	68.4	65.9	65.9	30.038	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	22	1	95.7	1
9/23/2012	1:41 PM	68.5	68.5	68.4	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.039	0	0	0	0.002	94	41	66.7	98.6	7.49	0.0704	24	1	100	1
9/23/2012	1:42 PM	68.5	68.5	68.5	38	41.9	0	---	0	0	---	68.5	65.9	65.9	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	21	1	91.3	1
9/23/2012	1:43 PM	68.6	68.6	68.5	39	42.6	0	---	0	0	---	68.6	66.1	66.1	30.038	0	0	0	0.002	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:44 PM	68.7	68.7	68.6	39	42.7	0	---	0	0	---	68.7	66.2	66.2	30.04	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:45 PM	68.8	68.8	68.7	39	42.8	0	---	0	0	---	68.8	66.3	66.3	30.038	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:46 PM	68.8	68.8	68.8	38	42.1	0	---	0	0	---	68.8	66.2	66.2	30.039	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:47 PM	68.9	68.9	68.9	39	42.9	0	---	0	0	---	68.9	66.4	66.4	30.039	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:48 PM	69	69	68.9	37	41.6	0	---	0	0	---	69	66.2	66.2	30.04	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:49 PM	69	69	69	37	41.6	0	---	0	0	---	69	66.2	66.2	30.036	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:50 PM	69.1	69.1	69	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.038	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	24	1	100	1
9/23/2012	1:51 PM	69.2	69.2	69.1	38	42.5	0	---	0	0	---	69.2	66.5	66.5	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	22	1	95.7	1
9/23/2012	1:52 PM	69.2	69.2	69.2	38	42.5	0	---	0	0	---	69.2	66.5	66.5	30.036	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:53 PM	69.3	69.3	69.2	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:54 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.037	0	0	0	0.003	94.2	41	66.9	99	7.48	0.0703	23	1	100	1
9/23/2012	1:55 PM	69.5	69.5	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.036	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:56 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:57 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:58 PM	69.3	69.4	69.3	36	41.2	0	---	0	0	---	69.3	66.4	66.4	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	1:59 PM	69.1	69.2	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.036	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	22	1	95.7	1
9/23/2012	2:00 PM	68.9	69.1	68.9	35	40.1	0	---	0	0	---	68.9	65.9	65.9	30.035	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	2:01 PM	68.9	68.9	68.9	36	40.8	0	---	0	0	---	68.9	66	66	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	23	1	100	1
9/23/2012	2:02 PM	68.8	68.9	68.8	37	41.5	0	---	0	0	---	68.8	66	66	30.033	0	0	0	0.003	94	41	66.7	98.6	7.49	0.0704	24	1	100	1
9/23/2012	2:03 PM	68.8	68.9	68.8	37	41.5	0	---	0	0	---	68.8	66	66	30.035	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	23	1	100	1
9/23/2012	2:04 PM	68.9	68.9	68.9	37	41.5	0	---	0	0	---	68.9	66.1	66.1	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	22	1	95.7	1
9/23/2012	2:05 PM	69	69	69	37	41.6	0	---	0	0	---	69	66.2	66.2	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	24	1	100	1
9/23/2012	2:06 PM	69.2	69.2	69	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	22	1	95.7	1
9/23/2012	2:07 PM	69.2	69.2	69.2	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.036	0	0	0	0.003	93.8	41	66.5	98.3	7.5	0.0704	23	1	100	1
9/23/2012	2:08 PM	69.1	69.2	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.038	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	22	1	95.7	1
9/23/2012	2:09 PM	69.1	69.1	69.1	37	41.7	0	---	0	0	---	69.1	66.3	66.3	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	24	1	100	1
9/23/2012	2:10 PM	69.2	69.2	69.1	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	21	1	91.3	1
9/23/2012	2:11 PM	69.3	69.3	69.3	38	42.6	0	---	0	0	---	69.3	66.6	66.6	30.034	0	0	0	0.003	93.6	41	66.4	97.9	7.51	0.0704	23	1	100	1
9/23/2012	2:12 PM	69.5	69.5	69.4	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.033	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:13 PM	69.7	69.7	69.5	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.033	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:14 PM	69.7	69.7	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.03	0	0	0	0.003	93.3	41	66.1	97.4	7.52	0.0705	23	1	100	1
9/23/2012	2:15 PM	69.6	69.7	69.6	37	42.2	0	---	0	0	---	69.6	66.7	66.7	30.032	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	23	1	100	1
9/23/2012	2:16 PM	69.5	69.6	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.032	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	22	1	95.7	1
9/23/2012	2:17 PM	69.5	69.5	69.4	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.031	0	0	0	0.003	93.1	41	65.9	97	7.53	0.0705	23	1	100	1
9/23/2012	2:18 PM	69.4	69.4	69.4	37	42	0	---	0	0	---	69.4	66.6	66.6	30.033	0	0	0	0.003	92.9	41	65.7	96.6	7.53	0.0706	23	1	100	1
9/23/2012	2:19 PM	69.2	69.3	69.2	37	41.8	0	---	0	0	---	69.2	66.4	66.4	30.034	0	0	0	0.003	92.9	41	65.7	96.6	7.53	0.0706	23	1	100	1
9/23/2012	2:20 PM	69.1	69.2	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.032	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	23	1	100	1
9/23/2012	2:21 PM	69.1	69.1	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.029	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	22	1	95.7	1
9/23/2012	2:22 PM	69.1	69.1	69.1	38	42.4	0	---	0	0	---	69.1	66.4	66.4	30.031	0	0	0	0.003	92.7	41	65.6	96.3	7.54	0.0706	23	1	100	1
9/23/2012	2:23 PM	69.2	69.2	69.1	39	43.2	0	---	0	0	---	69.2	66.6	66.6	30.031	0	0	0	0.003	92.5	41	65.4	95.9	7.55	0.0706	23	1	100	1
9/23/2012	2:24 PM	69.3	69.3	69.3	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.031	0	0	0	0.003	92.5	41	65.4	95.9	7.55	0.0706	24	1	100	1
9/23/2012	2:25 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.032	0	0	0	0.003	92.2	41	65.1	95.3	7.56	0.0707	23	1	100	1
9/23/2012	2:26 PM	69.5	69.5	69.4	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.032	0	0	0	0.003	92.2	42	65.8	95.8	7.66	0.0706	24	1	100	1
9/23/2012	2:27 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.037	0	0	0	0.003	92.2	42	65.8	95.8	7.66	0.0707	23	1	100	1
9/23/2012	2:28 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.033	0	0	0	0.003	92	42	65.6	95.5	7.67	0.0707	21	1	91.3	1
9/23/2012	2:29 PM	69.4	69.5	69.4	38	42.7	0	---	0	0	---	69.4	66.7	66.7	30.034	0	0	0	0.003	92	42	65.6	95.5	7.67	0.0707	24	1	100	1
9/23/2012	2:30 PM	69.3	69.4	69.3	39	43.3	0	---	0	0	---	69.3	66.7	66.7	30.033	0	0	0	0.003	91.8	42	65.4	95.1	7.68	0.0707	22	1	95.7	1
9/23/2012	2:31 PM	69.4	69.4	69.3	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.034	0	0	0	0.003	91.8	42	65.4	95.1	7.68	0.0707	23	1	100	1
9/23/2012	2:32 PM	69.4	69.4	69.4	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.034	0	0	0	0.003	91.6	42	65.3	94.8	7.69	0.0708	22	1	95.7	1
9/23/2012	2:33 PM	69.4	69.4	69.3	39	43.4	0	---	0	0	---	69.4	66.8	66.8	30.035	0	0	0	0.003	91.6	42	65.3	94.8	7.69	0.0708	23	1	100	1
9/23/2012	2:34 PM	69.4	69.5	69.4	40	44	0	---	0	0	---	69.4	66.9	66.9	30.034	0	0	0	0.003	91.4	42	65.1	94.5	7.69	0.0708	23	1	100	1
9/23/2012	2:35 PM	69.4	69.4	69.4	38	42.7	0	---	0	0	---	69.4	66.7	66.7	30.032	0	0	0	0.003	91.4	42	65.1	94.5	7.69	0.0708	23	1	100	1
9/23/2012	2:36 PM	69.2	69.3	69.2	39	43.2	0	---	0	0	---	69.2	66.6	66.6	30.033	0	0	0	0.003	91.1	42	64.8	93.9	7.71	0.0708	24	1	100	1
9/23/2012	2:37 PM	69	69.2	69	38	42.3	0	---	0	0	---	69	66.4	66.4	30.033	0	0	0	0.003	90.9	42	64.6	93.6	7.71	0.0709	23	1	100	1
9/23/2012	2:38 PM	68.9	69	68.9	39	42.9	0	---	0	0	---	68.9	66.4	66.4	30.033	0	0	0	0.003	90.9	42	64.6	93.6	7.71	0.0709	24	1	100	1
9/23/2012	2:39 PM	69	69	68.9	39	43	0	---	0	0	---	69	66.5	66.5	30.03	0	0	0	0.003	90.7	42	64.5	93.3	7.72	0.0709	22	1	95.7	1
9/23/2012	2:40 PM	69.2	69.2	69	41	44.5	0	---	0	0	---	69.2	66.8	66.8	30.031	0	0	0	0.003	90.5	42	64.3	92.9	7.73	0.0709	23	1	100	1
9/23/2012	2:41 PM	69.4	69.4	69.2	40	44	0	---	0	0	---	69.4	66.9	66.9	30.033	0	0	0	0.003	90.5	42	64.3	92.9	7.73	0.0709	24	1	100	1
9/23/2012	2:42 PM	69.8	69.8	69.5	40	44.4	0	---	0	0	---	69.8	67.2	67.2	30.033	0	0	0	0.003	90.3	42	64.1	92.6	7.74	0.071	23	1	100	1
9/23/2012	2:43 PM	70	70	69.8	39	43.9	0	---	0	0	---	70	67.2	67.2	30.033	0	0	0	0.003	90.1	42	63.9	92.2	7.75	0.071	24	1	100	1
9/23/2012	2:44 PM	70.2	70.2	70.1	39	44.1	0	---	0	0	---	70.2	67.5	67.5	30.03	0	0	0	0.004	89.8	42	63.6	91.8	7.75	0.0711	23	1	100	1
9/23/2012	2:45 PM	70.3	70.3	70.2	38	43.5	0	---	0	0	---	70.3	67.5	67.5	30.03	0	0	0	0.004	89.8	42	63.6	91.8	7.75	0.0711	23	1	100	1
9/23/2012	2:46 PM	70.5	70.5	70.3	37	43	0	---	0	0	---	70.5	67.7	67.7	30.031	0	0	0	0.004	89.6	42	63.5	91.5	7.76	0.0711	24	1	100	1
9/23/2012	2:47 PM	70.5	70.5	70.5	37	43	0	---	0	0	---	70.5	67.7	67.7	30.032	0	0	0	0.004	89.4	42	63.3	91.3	7.76	0.0711	23	1	100	1
9/23/2012	2:48 PM	70.5	70.5	70.5	37	43	0	---	0	0	---	70.5	67.7	67.7	30.031	0	0	0	0.004	89.4	42	63.3	91.3	7.76	0.0711	24	1	100	1
9/23/2012	2:49 PM	70.4	70.5	70.4	37	42.9	0	---	0	0	---	70.4	67.6	67.6	30.032	0	0	0	0.004	89.2	42	63.1	91	7.77	0.0712	23	1	100	1
9/23/2012	2:50 PM	70.2	70.3	70.2	37	42.7	0	---	0	0	---	70.2	67.3	67.3	30.033	0	0	0	0.004	89.2	42	63.1	91	7.77	0.0712	24	1	100	1
9/23/2012	2:51 PM	70.1	70.1	70.1	37	42.6	0	---	0	0	---	70.1	67.2	67.2	30.031	0	0	0	0.004	89	42	62.9	90.8	7.77	0.0712	23	1	100	1
9/23/2012	2:52 PM	70	70.1	70	38	43.2	0	---	0	0	---	70	67.1	67.1	30.032	0	0	0	0.003	88.8	42	62.7	90.4	7.77	0.0712	23	1	100	1
9/23/2012	2:53 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.03	0	0	0	0.004	88.8	43	63.4	90.7	7.95	0.0712	23	1	100	1
9/23/2012	2:54 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.031	0	0	0	0.004	88.6	43	63.2	90.3	7.95	0.0712	23	1	100	1
9/23/2012	2:55 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.033	0	0	0	0.003	88.4	43	63.1	89.9	7.95	0.0713	23	1	100	1
9/23/2012	2:56 PM	69.8	70	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.03	0	0	0	0.003	88.2	43	62.9	89.5	7.95	0.0713	23	1	100	1
9/23/2012	2:57 PM	69.6	69.7	69.6	36	41.5	0	---	0	0	---	69.6	66.6	66.6	30.029	0	0	0	0.003	88.2	43	62.9	89.5	7.95	0.0713	22	1	95.7	1
9/23/2012	2:58 PM	69.5	69.5	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.028	0	0	0	0.003	88	43	62.7	89.1	7.95	0.0713	23	1	100	1
9/23/2012	2:59 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.029	0	0	0	0.003	87.7	43	62.4	88.8	7.95	0.0714	22	1	95.7	1
9/23/2012	3:00 PM	69.5	69.5	69.5	38	42.8	0	---	0	0	---	69.5	66.8	66.8	30.03	0	0	0	0.003	87.5	43	62.2	88.6	7.95	0.0714	23	1	100	1
9/23/2012	3:01 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.029	0	0	0	0.003	87.5	43	62.2	88.6	7.95	0.0714	23	1	100	1
9/23/2012	3:02 PM	69.8	69.8	69.7	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.031	0	0	0	0.003	87.3	43	62.1	88.4	7.95	0.0715	23	1	100	1
9/23/2012	3:03 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	22	1	95.7	1
9/23/2012	3:04 PM	70	70	69.9	37	42.5	0	---	0	0	---	70	67.1	67.1	30.031	0	0	0	0.003	87.1	43	61.9	88.2	7.95	0.0715	23	1	100	1
9/23/2012	3:05 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.9	43	61.7	88	7.95	0.0715	24	1	100	1
9/23/2012	3:06 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.032	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	23	1	100	1
9/23/2012	3:07 PM	70.1	70.1	70.1	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.033	0	0	0	0.004	86.7	43	61.5	87.7	7.95	0.0716	24	1	100	1
9/23/2012	3:08 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.032	0	0	0	0.003	86.5	43	61.3	87.4	7.95	0.0716	23	1	100	1
9/23/2012	3:09 PM	70	70	70	36	41.8	0	---	0	0	---	70	67	67	30.034	0	0	0	0.003	86.3	43	61.2	87.2	7.95	0.0716	23	1	100	1
9/23/2012	3:10 PM	69.9	70	69.9	36	41.7	0	---	0	0	---	69.9	66.9	66.9	30.032	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	24	1	100	1
9/23/2012	3:11 PM	69.8	69.9	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.03	0	0	0	0.003	86.1	43	61	86.9	7.95	0.0717	23	1	100	1
9/23/2012	3:12 PM	69.8	69.8	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.028	0	0	0	0.003	85.9

Meteorological Data
Equity IRM

9/23/2012	4:31 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.037	0	0	0	0.003	75.7	48	54.6	75.6	8.94	0.0734	23	1	100	1
9/23/2012	4:32 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.042	0	0	0	0.003	75.7	48	54.6	75.6	8.94	0.0734	22	1	95.7	1
9/23/2012	4:33 PM	69.5	69.5	69.5	39	43.4	0	---	0	0	---	69.5	66.8	66.8	30.041	0	0	0	0.003	75.6	49	55.1	75.6	9.04	0.0734	23	1	100	1
9/23/2012	4:34 PM	69.6	69.6	69.5	39	43.5	0	---	0	0	---	69.6	66.9	66.9	30.041	0	0	0	0.003	75.4	49	54.9	75.4	9.04	0.0734	22	1	95.7	1
9/23/2012	4:35 PM	69.7	69.7	69.6	37	42.3	0	---	0	0	---	69.7	66.8	66.8	30.041	0	0	0	0.003	75.4	49	54.9	75.4	9.04	0.0734	22	1	95.7	1
9/23/2012	4:36 PM	69.8	69.8	69.7	37	42.3	0	---	0	0	---	69.8	66.9	66.9	30.04	0	0	0	0.003	75.2	49	54.7	75.2	9.05	0.0734	23	1	100	1
9/23/2012	4:37 PM	69.9	69.9	69.8	37	42.4	0	---	0	0	---	69.9	67	67	30.04	0	0	0	0.003	75	49	54.5	75	9.05	0.0735	22	1	95.7	1
9/23/2012	4:38 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.041	0	0	0	0.004	75	49	54.5	75	9.05	0.0735	23	1	100	1
9/23/2012	4:39 PM	70.1	70.1	70	36	41.9	0	---	0	0	---	70.1	67.1	67.1	30.042	0	0	0	0.004	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:40 PM	70	70.1	70	36	41.8	0	---	0	0	---	70	67	67	30.042	0	0	0	0.003	74.9	49	54.4	74.9	9.05	0.0735	23	1	100	1
9/23/2012	4:41 PM	69.8	70	69.8	36	41.6	0	---	0	0	---	69.8	66.8	66.8	30.041	0	0	0	0.003	74.7	49	54.3	74.6	9.05	0.0735	23	1	100	1
9/23/2012	4:42 PM	69.7	69.8	69.7	36	41.5	0	---	0	0	---	69.7	66.7	66.7	30.041	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:43 PM	69.5	69.7	69.5	37	42.1	0	---	0	0	---	69.5	66.7	66.7	30.042	0	0	0	0.003	74.5	49	54.1	74.3	9.05	0.0735	23	1	100	1
9/23/2012	4:44 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.044	0	0	0	0.003	74.3	49	53.9	74.1	9.05	0.0736	23	1	100	1
9/23/2012	4:45 PM	69.4	69.5	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.045	0	0	0	0.003	74.3	49	53.9	74.1	9.05	0.0736	22	1	95.7	1
9/23/2012	4:46 PM	69.4	69.4	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.046	0	0	0	0.003	74.2	49	53.8	73.9	9.05	0.0736	24	1	100	1
9/23/2012	4:47 PM	69.4	69.4	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.044	0	0	0	0.003	74.2	49	53.8	73.9	9.05	0.0736	23	1	100	1
9/23/2012	4:48 PM	69.4	69.4	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.046	0	0	0	0.003	74	49	53.6	73.6	9.05	0.0736	24	1	100	1
9/23/2012	4:49 PM	69.4	69.4	69.3	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.045	0	0	0	0.003	73.8	49	53.4	73.4	9.05	0.0737	23	1	100	1
9/23/2012	4:50 PM	69.4	69.4	69.4	36	41.3	0	---	0	0	---	69.4	66.5	66.5	30.044	0	0	0	0.003	73.8	49	53.4	73.4	9.05	0.0737	23	1	100	1
9/23/2012	4:51 PM	69.5	69.5	69.4	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	73.6	49	53.3	73.2	9.05	0.0737	24	1	100	1
9/23/2012	4:52 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.043	0	0	0	0.003	73.6	50	53.8	73.2	9.25	0.0737	22	1	95.7	1
9/23/2012	4:53 PM	69.6	69.6	69.5	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.042	0	0	0	0.003	73.5	50	53.7	73.1	9.25	0.0737	24	1	100	1
9/23/2012	4:54 PM	69.6	69.6	69.6	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.042	0	0	0	0.003	73.3	50	53.5	72.9	9.25	0.0737	22	1	95.7	1
9/23/2012	4:55 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.3	50	53.5	72.9	9.25	0.0737	23	1	100	1
9/23/2012	4:56 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.1	50	53.4	72.6	9.25	0.0738	23	1	100	1
9/23/2012	4:57 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.043	0	0	0	0.003	73.1	50	53.4	72.6	9.25	0.0738	23	1	100	1
9/23/2012	4:58 PM	69.5	69.5	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	73	50	53.3	72.5	9.25	0.0738	23	1	100	1
9/23/2012	4:59 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	73	50	53.3	72.5	9.25	0.0738	23	1	100	1
9/23/2012	5:00 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	72.8	50	53.1	72.2	9.25	0.0738	23	1	100	1
9/23/2012	5:01 PM	69.6	69.6	69.5	35	40.7	0	---	0	0	---	69.6	66.5	66.5	30.043	0	0	0	0.003	72.6	50	52.9	71.9	9.25	0.0739	23	1	100	1
9/23/2012	5:02 PM	69.5	69.6	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	72.6	50	52.9	71.9	9.25	0.0739	23	1	100	1
9/23/2012	5:03 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.041	0	0	0	0.003	72.4	50	52.7	71.7	9.25	0.0739	23	1	100	1
9/23/2012	5:04 PM	69.5	69.5	69.4	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.042	0	0	0	0.003	72.4	50	52.7	71.7	9.25	0.0739	22	1	95.7	1
9/23/2012	5:05 PM	69.5	69.5	69.5	36	41.4	0	---	0	0	---	69.5	66.6	66.6	30.043	0	0	0	0.003	72.3	50	52.6	71.5	9.25	0.0739	23	1	100	1
9/23/2012	5:06 PM	69.5	69.6	69.5	35	40.6	0	---	0	0	---	69.5	66.4	66.4	30.045	0	0	0	0.003	72.3	50	52.6	71.5	9.25	0.0739	23	1	100	1
9/23/2012	5:07 PM	69.5	69.6	69.5	34	39.9	0	---	0	0	---	69.5	66.3	66.3	30.046	0	0	0	0.003	72.1	50	52.4	71.2	9.25	0.074	22	1	95.7	1
9/23/2012	5:08 PM	69.5	69.5	69.5	34	39.9	0	---	0	0	---	69.5	66.3	66.3	30.048	0	0	0	0.003	71.9	50	52.2	70.9	9.25	0.074	24	1	100	1
9/23/2012	5:09 PM	69.4	69.5	69.4	35	40.5	0	---	0	0	---	69.4	66.4	66.4	30.046	0	0	0	0.003	71.9	50	52.2	70.9	9.25	0.074	22	1	95.7	1
9/23/2012	5:10 PM	69.3	69.4	69.3	34	39.7	0	---	0	0	---	69.3	66.2	66.2	30.048	0	0	0	0.003	71.8	50	52.2	70.8	9.25	0.074	24	1	100	1
9/23/2012	5:11 PM	69.1	69.2	69.1	34	39.5	0	---	0	0	---	69.1	66	66	30.045	0	0	0	0.003	71.8	50	52.2	70.8	9.25	0.074	23	1	100	1
9/23/2012	5:12 PM	69	69.1	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.046	0	0	0	0.003	71.6	50	52	70.5	9.25	0.074	23	1	100	1
9/23/2012	5:13 PM	69	69	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.045	0	0	0	0.003	71.4	51	52.3	70.3	9.42	0.0741	24	1	100	1
9/23/2012	5:14 PM	69	69	69	34	39.4	0	---	0	0	---	69	65.9	65.9	30.049	0	0	0	0.003	71.4	51	52.3	70.3	9.42	0.0741	23	1	100	1
9/23/2012	5:15 PM	69	69	69	33	38.7	0	---	0	0	---	69	65.8	65.8	30.049	0	0	0	0.003	71.2	51	52.1	70	9.43	0.0741	24	1	100	1
9/23/2012	5:16 PM	68.9	69	68.9	33	38.6	0	---	0	0	---	68.9	65.7	65.7	30.049	0	0	0	0.003	71.2	51	52.1	70	9.43	0.0741	23	1	100	1
9/23/2012	5:17 PM	68.8	68.9	68.8	33	38.5	0	---	0	0	---	68.8	65.6	65.6	30.051	0	0	0	0.003	71.1	51	52	69.8	9.43	0.0741	23	1	100	1
9/23/2012	5:18 PM	68.6	68.7	68.6	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.049	0	0	0	0.002	71.1	51	52	69.8	9.43	0.0741	22	1	95.7	1
9/23/2012	5:19 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.047	0	0	0	0.002	70.9	51	51.9	69.6	9.43	0.0741	23	1	100	1
9/23/2012	5:20 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.049	0	0	0	0.002	70.7	51	51.7	69.3	9.44	0.0742	23	1	100	1
9/23/2012	5:21 PM	68.5	68.5	68.4	35	39.8	0	---	0	0	---	68.5	65.5	65.5	30.049	0	0	0	0.002	70.7	51	51.7	69.3	9.44	0.0742	23	1	100	1
9/23/2012	5:22 PM	68.5	68.5	68.4	34	39	0	---	0	0	---	68.5	65.4	65.4	30.051	0	0	0	0.002	70.6	51	51.6	69.2	9.44	0.0742	23	1	100	1
9/23/2012	5:23 PM	68.5	68.5	68.5	33	38.2	0	---	0	0	---	68.5	65.3	65.3	30.05	0	0	0	0.002	70.6	51	51.6	69.2	9.44	0.0742	23	1	100	1
9/23/2012	5:24 PM	68.5	68.5	68.5	33	38.2	0	---	0	0	---	68.5	65.3	65.3	30.051	0	0	0	0.002	70.4	51	51.4	68.9	9.44	0.0742	22	1	95.7	1
9/23/2012	5:25 PM	68.6	68.6	68.6	33	38.3	0	---	0	0	---	68.6	65.4	65.4	30.05	0	0	0	0.002	70.2	51	51.2	68.6	9.45	0.0743	24	1	100	1
9/23/2012	5:26 PM	68.7	68.7	68.6	33	38.4	0	---	0	0	---	68.7	65.5	65.5	30.05	0	0	0	0.003	70.2	51	51.2	68.6	9.45	0.0743	22	1	95.7	1
9/23/2012	5:27 PM	68.7	68.7	68.6	33	38.4	0	---	0	0	---	68.7	65.5	65.5	30.05	0	0	0	0.003	70.1	51	51.1	68.5	9.45	0.0743	23	1	100	1
9/23/2012	5:28 PM	68.7	68.7	68.7	34	39.2	0	---	0	0	---	68.7	65.6	65.6	30.049	0	0	0	0.003	70.1	51	51.1	68.5	9.45	0.0743	23	1	100	1
9/23/2012	5:29 PM	68.7	68.7	68.7	34	39.2	0	---	0	0	---	68.7	65.6	65.6	30.049	0	0	0	0.003	69.9	51	50.9	68.3	9.45	0.0743	23	1	100	1
9/23/2012	5:30 PM	68.6	68.7	68.6	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.049	0	0	0	0.002	69.9	51	50.9	68.3	9.45	0.0743	23	1	100	1
9/23/2012	5:31 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.049	0	0	0	0.002	69.7	51	50.8	68.2	9.46	0.0744	23	1	100	1
9/23/2012	5:32 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.049	0	0	0	0.002	69.7	51	50.8	68.2	9.46	0.0744	24	1	100	1
9/23/2012	5:33 PM	68.4	68.4	68.3	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.048	0	0	0	0.002	69.6	52	51.2	68.2	9.66	0.0744	23	1	100	1
9/23/2012	5:34 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.048	0	0	0	0.002	69.6	51	50.7	68.1	9.46	0.0744	24	1	100	1
9/23/2012	5:35 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.05	0	0	0	0.002	69.4	52	51	68	9.66	0.0744	23	1	100	1
9/23/2012	5:36 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.05	0	0	0	0.002	69.4	52	51	68	9.66	0.0744	23	1	100	1
9/23/2012	5:37 PM	68.3	68.3	68.3	34	38.8	0	---	0	0	---	68.3	65.2	65.2	30.051	0	0	0	0.002	69.2	52	50.8	67.9	9.67	0.0744	23	1	100	1
9/23/2012	5:38 PM	68.3	68.4	68.3	35	39.6	0	---	0	0	---	68.3	65.3	65.3	30.049	0	0	0	0.002	69.2	52	50.8	67.9	9.67	0.0744	23	1	100	1
9/23/2012	5:39 PM	68.4	68.4	68.3	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.05	0	0	0	0.002	69	52	50.6	67.8	9.67	0.0745	24	1	100	1
9/23/2012	5:40 PM	68.4	68.4	68.4	34	38.9	0	---	0	0	---	68.4	65.3	65.3	30.052	0	0	0	0.002	69	52	50.6	67.8	9.67	0.0745	23	1	100	1
9/23/2012	5:41 PM	68.5	68.5	68.5	35	39.8	0	---	0	0	---	68.5	65.5	65.5	30.051	0	0	0	0.002	68.9	52	50.5	67.7	9.67	0.0745	24	1	100	1
9/23/2012	5:42 PM	68.6	68.6	68.5	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.056	0	0	0	0.002	68.9	52	50.5	67.7	9.67	0.0745	23	1	100	1
9/23/2012	5:43 PM	68.6	68.6	68.5	34	39.1	0	---	0	0	---	68.6	65.5	65.5	30.055	0	0	0	0.002	68.7	52	50.4	67.5	9.68	0.0745	23	1	100	1
9/23/2012	5:44 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.053	0	0	0	0.002	68.7	52	50.4	67.5	9.68	0.0745	24	1	100	1
9/23/2012	5:45 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.055	0	0	0	0.002	68.5	52	50.2	67.3	9.68	0.0746	23	1	100	1
9/23/2012	5:46 PM	68.6	68.6	68.6	35	39.8	0	---	0	0	---	68.6	65.6	65.6	30.055	0	0	0	0.002	68.5	52	50.2	67.3	9.68	0.0746	24	1	100	1
9/23/2012	5:47 PM	68.5	68.6	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.057	0	0	0	0.002	68.4	52	50.1	67.2	9.68	0.0746	23	1	100	1
9/23/2012	5:48 PM	68.5	68.5	68.5	34	39	0	---	0	0	---	68.5	65.4	65.4	30.056	0	0	0	0.002	68.4	52	50.1	67.2	9.68	0.0746	23	1	100	1
9/23/2012	5:49 PM	68.4	68.5	68.4	35	39.7	0	---	0	0	---	68.4	65.4	65.4	30.054	0	0	0	0.002	68.2	52	49.9	67.1	9.69	0.0746	24	1	100	1
9/23/2012	5:50 PM	68.2	68.4	68.2	35	39.5	0	---	0	0	---	68.2	65.2	65.2	30.055	0	0	0	0.002	68.2	52	49.9	67.1	9.69	0.0746	23	1	100	1
9/23/2012	5:51 PM	68.1	68.2	68.1	35	39.4	0	---	0	0	---	68.1	65.1	65.1	30.053	0	0	0	0.002	68	52	49.7	66.9	9.69	0.0746	24	1	100	1
9/23/2012	5:52 PM	67.9	68	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.052	0	0	0	0.002	68	52	49.7	66.9	9.69	0.0746	23	1	100	1
9/23/2012	5:53 PM	67.8	67.9	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.053	0	0	0	0.002	67.9	52	49.6	66.8	9.69	0.0747	24	1	100	1
9/23/2012	5:54 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.054	0	0	0	0.002	67.9	52	49.6	66.8	9.69	0.0747	23	1	100	1
9/23/2012	5:55 PM	67.8	67.8	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.056	0	0	0	0.002	67.7	52	49.4	66.6	9.7	0.0747	23	1	100	1
9/23/2012	5:56 PM	67.8	67.8	67.8	35	39.1	0	---	0	0	---	67.8	64.8	64.8	30.056	0	0	0	0.002	67.7	52	49.4	66.6	9.7	0.0747	24	1	100	1
9/23/2012	5:57 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.5	52	49.3	66.3	9.7	0.0747	23	1	100	1
9/23/2012	5:58 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.5	52	49.3	66.3	9.7	0.0747	24	1	100	1
9/23/2012	5:59 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.057	0	0	0	0.002	67.4	52	49.2	66.2	9.7	0.0748	22	1	95.7	1
9/23/2012	6:00 PM	67.9	67.9	67.8	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.4	53	49.7	66.3	9.9	0.0747	23	1	100	1
9/23/2012	6:01 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.4	53	49.7	66.3	9.9	0.0747	22	1	95.7	1
9/23/2012	6:02 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.058	0	0	0	0.002	67.2	53	49.5	66.1	9.91	0.0748	23	1	100	1
9/23/2012	6:03 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.06	0	0	0	0.002	67.2	53	49.5	66.1	9.91	0.0748	24	1	100	1
9/23/2012	6:04 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.058	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:05 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	67	53	49.3	65.9	9.91	0.0748	23	1	100	1
9/23/2012	6:06 PM	67.9	67.9	67.9	36	39.9	0	---	0	0	---	67.9	65	65	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	23	1	100	1
9/23/2012	6:07 PM	67.9	67.9	67.9	35	39.2	0	---	0	0	---	67.9	64.9	64.9	30.061	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	22	1	95.7	1
9/23/2012	6:08 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.06	0	0	0	0.002	66.9	53	49.2	65.8	9.91	0.0748	24	1	100	1
9/23/2012	6:09 PM	67.8	67.9	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	22	1	95.7	1
9/23/2012	6:10 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.059	0	0	0	0.002	66.7	53	49	65.5	9.92	0.0749	23	1	100	1
9/23/2012	6:11 PM	67.8	67.8	67.8	36	39.9	0	---	0	0	---	67.8	64.9	64.9	30.061	0	0	0	0.002	66.6	53	48.9	65.4	9.92	0.0749	23	1	100	1
9/23/2012	6:12 PM	67.8	67.8	67.8	36

Meteorological Data
Equity IRM

9/23/2012	7:31 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.08	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	23	1	100	1
9/23/2012	7:32 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.8	55	45.5	60.3	10.25	0.0757	23	1	100	1
9/23/2012	7:33 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	22	1	95.7	1
9/23/2012	7:34 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	23	1	100	1
9/23/2012	7:35 PM	65.4	65.4	65.4	42	41.7	0	---	0	0	---	65.4	63	63	30.079	0	0	0	0	61.6	55	45.3	60.1	10.25	0.0758	24	1	100	1
9/23/2012	7:36 PM	65.4	65.4	65.3	43	42.3	0	---	0	0	---	65.4	63.1	63.1	30.079	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:37 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:38 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	23	1	100	1
9/23/2012	7:39 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.081	0	0	0	0	61.4	55	45.1	59.8	10.25	0.0758	24	1	100	1
9/23/2012	7:40 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:41 PM	65.3	65.3	65.3	42	41.6	0	---	0	0	---	65.3	62.9	62.9	30.082	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	23	1	100	1
9/23/2012	7:42 PM	65.2	65.3	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.3	55	45	59.7	10.25	0.0758	24	1	100	1
9/23/2012	7:43 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.083	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:44 PM	65.2	65.2	65.2	42	41.5	0	---	0	0	---	65.2	62.8	62.8	30.084	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	24	1	100	1
9/23/2012	7:45 PM	65.1	65.2	65.1	42	41.4	0	---	0	0	---	65.1	62.7	62.7	30.086	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:46 PM	65.1	65.1	65.1	43	42	0	---	0	0	---	65.1	62.7	62.7	30.086	0	0	0	0	61.1	55	44.8	59.5	10.25	0.0759	23	1	100	1
9/23/2012	7:47 PM	65	65.1	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	24	1	100	1
9/23/2012	7:48 PM	65	65	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.087	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	23	1	100	1
9/23/2012	7:49 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.087	0	0	0	0	61	55	44.7	59.4	10.25	0.0759	24	1	100	1
9/23/2012	7:50 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.085	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:51 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:52 PM	65	65	65	43	41.9	0	---	0	0	---	65	62.6	62.6	30.086	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:53 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.085	0	0	0	0	60.8	56	45	59.3	10.45	0.0759	23	1	100	1
9/23/2012	7:54 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.085	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:55 PM	65	65	65	44	42.5	0	---	0	0	---	65	62.7	62.7	30.086	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:56 PM	64.9	65	64.9	45	43	0	---	0	0	---	64.9	62.7	62.7	30.087	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:57 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.087	0	0	0	0	60.7	56	44.9	59.2	10.45	0.0759	23	1	100	1
9/23/2012	7:58 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.087	0	0	0	0	60.5	56	44.7	59	10.45	0.076	22	1	95.7	1
9/23/2012	7:59 PM	64.9	64.9	64.9	44	42.5	0	---	0	0	---	64.9	62.6	62.6	30.09	0	0	0	0	60.5	56	44.7	59	10.45	0.076	24	1	100	1
9/23/2012	8:00 PM	64.8	64.9	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.5	56	44.7	59	10.45	0.076	22	1	95.7	1
9/23/2012	8:01 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.5	56	44.7	59	10.45	0.076	23	1	100	1
9/23/2012	8:02 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.088	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	23	1	100	1
9/23/2012	8:03 PM	64.8	64.8	64.8	44	42.4	0	---	0	0	---	64.8	62.5	62.5	30.089	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	22	1	95.7	1
9/23/2012	8:04 PM	64.7	64.8	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.089	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	24	1	100	1
9/23/2012	8:05 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.091	0	0	0	0	60.3	56	44.5	58.8	10.45	0.076	22	1	95.7	1
9/23/2012	8:06 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.09	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	24	1	100	1
9/23/2012	8:07 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.089	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	23	1	100	1
9/23/2012	8:08 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.09	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	24	1	100	1
9/23/2012	8:09 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.091	0	0	0	0	60.2	56	44.4	58.7	10.45	0.076	23	1	100	1
9/23/2012	8:10 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.091	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:11 PM	64.7	64.7	64.7	44	42.3	0	---	0	0	---	64.7	62.4	62.4	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	24	1	100	1
9/23/2012	8:12 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:13 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	24	1	100	1
9/23/2012	8:14 PM	64.7	64.7	64.7	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	60	56	44.3	58.5	10.45	0.0761	23	1	100	1
9/23/2012	8:15 PM	64.7	64.7	64.6	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.092	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:16 PM	64.6	64.7	64.6	45	42.8	0	---	0	0	---	64.6	62.4	62.4	30.092	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	24	1	100	1
9/23/2012	8:17 PM	64.6	64.6	64.6	45	42.8	0	---	0	0	---	64.6	62.4	62.4	30.094	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:18 PM	64.5	64.6	64.5	45	42.7	0	---	0	0	---	64.5	62.3	62.3	30.093	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	24	1	100	1
9/23/2012	8:19 PM	64.5	64.5	64.5	45	42.7	0	---	0	0	---	64.5	62.3	62.3	30.093	0	0	0	0	59.9	56	44.2	58.4	10.45	0.0761	23	1	100	1
9/23/2012	8:20 PM	64.4	64.5	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	24	1	100	1
9/23/2012	8:21 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.092	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:22 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:23 PM	64.4	64.4	64.4	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.094	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:24 PM	64.4	64.4	64.3	45	42.6	0	---	0	0	---	64.4	62.2	62.2	30.093	0	0	0	0	59.7	56	44	58.2	10.45	0.0761	23	1	100	1
9/23/2012	8:25 PM	64.3	64.3	64.3	45	42.5	0	---	0	0	---	64.3	62.1	62.1	30.094	0	0	0	0	59.6	56	43.9	58.1	10.45	0.0761	24	1	100	1
9/23/2012	8:26 PM	64.3	64.3	64.3	46	43.1	0	---	0	0	---	64.3	62.2	62.2	30.096	0	0	0	0	59.6	56	43.9	58.1	10.45	0.0761	23	1	100	1
9/23/2012	8:27 PM	64.2	64.3	64.2	45	42.4	0	---	0	0	---	64.2	62	62	30.096	0	0	0.001	0	59.6	56	43.9	58.1	10.45	0.0761	21	1	91.3	1
9/23/2012	8:28 PM	64.2	64.2	64.2	46	43	0	---	0	0	---	64.2	62.1	62.1	30.096	0	0	0.001	0	59.6	56	43.9	58.1	10.45	0.0761	24	1	100	1
9/23/2012	8:29 PM	64.1	64.1	64.1	46	42.9	0	---	0	0	---	64.1	62	62	30.096	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:30 PM	64	64.1	64	46	42.8	0	---	0	0	---	64	61.9	61.9	30.096	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	24	1	100	1
9/23/2012	8:31 PM	64	64	64	46	42.8	0	---	0	0	---	64	61.9	61.9	30.093	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:32 PM	63.9	64	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.092	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	24	1	100	1
9/23/2012	8:33 PM	63.9	63.9	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.093	0	0	0.001	0	59.4	56	43.7	57.9	10.45	0.0762	23	1	100	1
9/23/2012	8:34 PM	63.9	63.9	63.9	46	42.7	0	---	0	0	---	63.9	61.8	61.8	30.093	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	23	1	100	1
9/23/2012	8:35 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	24	1	100	1
9/23/2012	8:36 PM	63.8	63.8	63.8	45	42	0	---	0	0	---	63.8	61.6	61.6	30.092	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	23	1	100	1
9/23/2012	8:37 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.3	56	43.6	57.8	10.45	0.0762	24	1	100	1
9/23/2012	8:38 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.091	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:39 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.092	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:40 PM	63.7	63.8	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.094	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	24	1	100	1
9/23/2012	8:41 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.092	0	0	0.001	0	59.1	56	43.4	57.6	10.45	0.0762	23	1	100	1
9/23/2012	8:42 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.093	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	24	1	100	1
9/23/2012	8:43 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.095	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	23	1	100	1
9/23/2012	8:44 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	59	56	43.3	57.5	10.45	0.0762	22	1	95.7	1
9/23/2012	8:45 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.094	0	0	0.001	0	58.8	56	43.1	57.3	10.45	0.0763	23	1	100	1
9/23/2012	8:46 PM	63.7	63.8	63.7	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.095	0	0	0.001	0	58.8	56	43.1	57.3	10.45	0.0763	22	1	95.7	1
9/23/2012	8:47 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	24	1	100	1
9/23/2012	8:48 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	22	1	95.7	1
9/23/2012	8:49 PM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.8	57	43.6	57.3	10.57	0.0763	24	1	100	1
9/23/2012	8:50 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	22	1	95.7	1
9/23/2012	8:51 PM	63.8	63.8	63.8	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	21	1	91.3	1
9/23/2012	8:52 PM	63.7	63.8	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	23	1	100	1
9/23/2012	8:53 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.7	57	43.5	57.2	10.58	0.0763	22	1	95.7	1
9/23/2012	8:54 PM	63.7	63.7	63.7	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	24	1	100	1
9/23/2012	8:55 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.095	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	22	1	95.7	1
9/23/2012	8:56 PM	63.7	63.7	63.7	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	22	1	95.7	1
9/23/2012	8:57 PM	63.7	63.7	63.6	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.5	57	43.3	57	10.58	0.0763	23	1	100	1
9/23/2012	8:58 PM	63.7	63.7	63.6	46	42.5	0	---	0	0	---	63.7	61.6	61.6	30.096	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	8:59 PM	63.7	63.7	63.6	47	43.1	0	---	0	0	---	63.7	61.6	61.6	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	23	1	100	1
9/23/2012	9:00 PM	63.6	63.7	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.098	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	9:01 PM	63.6	63.7	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	23	1	100	1
9/23/2012	9:02 PM	63.6	63.6	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.097	0	0	0.001	0	58.4	57	43.2	56.9	10.58	0.0763	22	1	95.7	1
9/23/2012	9:03 PM	63.6	63.6	63.6	47	43	0	---	0	0	---	63.6	61.5	61.5	30.099	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:04 PM	63.5	63.6	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.096	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:05 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:06 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:07 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.2	57	43	56.7	10.59	0.0764	23	1	100	1
9/23/2012	9:08 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:09 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:10 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:11 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:12 PM	63.5	63.5	63.5	47	42.9	0	---	0	0	---	63.5	61.4	61.4	30.097	0	0	0.001	0	58.1	57	42.9	56.6	10.59	0.0764	23	1	100	1
9/23/2012	9:13 PM	63.5	63.5	63.5	46	42.3	0	---	0	0	---	63.5	61

Meteorological Data
Equity IRM

9/23/2012	10:31 PM	62.7	62.8	62.7	50	43.8	0	---	0	0	---	62.7	60.8	60.8	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:32 PM	62.7	62.7	62.7	51	44.3	0	---	0	0	---	62.7	60.9	60.9	30.113	0	0	0.002	0	57	57	41.9	55.5	10.61	0.0766	22	1	95.7	1
9/23/2012	10:33 PM	62.6	62.7	62.6	51	44.2	0	---	0	0	---	62.6	60.8	60.8	30.114	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	24	1	100	1
9/23/2012	10:34 PM	62.5	62.6	62.5	51	44.1	0	---	0	0	---	62.5	60.7	60.7	30.114	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:35 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	57	57	41.9	55.5	10.61	0.0766	24	1	100	1
9/23/2012	10:36 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.113	0	0	0.002	0	57	58	42.4	55.6	10.75	0.0766	22	1	95.7	1
9/23/2012	10:37 PM	62.5	62.5	62.5	50	43.6	0	---	0	0	---	62.5	60.6	60.6	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:38 PM	62.4	62.5	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.113	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:39 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.114	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:40 PM	62.4	62.4	62.4	50	43.5	0	---	0	0	---	62.4	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:41 PM	62.3	62.4	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	22	1	95.7	1
9/23/2012	10:42 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:43 PM	62.3	62.3	62.3	50	43.4	0	---	0	0	---	62.3	60.4	60.4	30.116	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:44 PM	62.3	62.3	62.3	51	43.9	0	---	0	0	---	62.3	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:45 PM	62.3	62.3	62.3	51	43.9	0	---	0	0	---	62.3	60.5	60.5	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:46 PM	62.2	62.3	62.2	51	43.8	0	---	0	0	---	62.2	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	23	1	100	1
9/23/2012	10:47 PM	62.2	62.2	62.2	51	43.8	0	---	0	0	---	62.2	60.4	60.4	30.115	0	0	0.002	0	56.8	58	42.2	55.4	10.75	0.0766	24	1	100	1
9/23/2012	10:48 PM	62.1	62.2	62.1	51	43.7	0	---	0	0	---	62.1	60.3	60.3	30.115	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:49 PM	62.1	62.1	62.1	51	43.7	0	---	0	0	---	62.1	60.3	60.3	30.116	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:50 PM	62	62.1	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	24	1	100	1
9/23/2012	10:51 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.119	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:52 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	24	1	100	1
9/23/2012	10:53 PM	62	62	62	51	43.7	0	---	0	0	---	62	60.2	60.2	30.117	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:54 PM	62	62	61.9	51	43.7	0	---	0	0	---	62	60.2	60.2	30.116	0	0	0.002	0	56.7	58	42.1	55.3	10.75	0.0767	23	1	100	1
9/23/2012	10:55 PM	62	62	61.9	51	43.7	0	---	0	0	---	62	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	10:56 PM	61.9	62	61.9	51	43.6	0	---	0	0	---	61.9	60.1	60.1	30.119	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	10:57 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	10:58 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	10:59 PM	61.9	61.9	61.9	52	44.1	0	---	0	0	---	61.9	60.2	60.2	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	24	1	100	1
9/23/2012	11:00 PM	61.8	61.9	61.8	53	44.5	0	---	0	0	---	61.8	60.1	60.1	30.118	0	0	0.002	0	56.5	58	41.9	55.1	10.75	0.0767	23	1	100	1
9/23/2012	11:01 PM	61.8	61.8	61.8	52	44	0	---	0	0	---	61.8	60	60	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:02 PM	61.7	61.8	61.7	52	43.9	0	---	0	0	---	61.7	59.9	59.9	30.117	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	24	1	100	1
9/23/2012	11:03 PM	61.6	61.7	61.6	52	43.8	0	---	0	0	---	61.6	59.8	59.8	30.117	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:04 PM	61.6	61.6	61.6	52	43.8	0	---	0	0	---	61.6	59.8	59.8	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	24	1	100	1
9/23/2012	11:05 PM	61.5	61.6	61.5	52	43.7	0	---	0	0	---	61.5	59.7	59.7	30.118	0	0	0.002	0	56.4	58	41.8	55	10.75	0.0767	23	1	100	1
9/23/2012	11:06 PM	61.5	61.6	61.5	52	43.7	0	---	0	0	---	61.5	59.7	59.7	30.118	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	23	1	100	1
9/23/2012	11:07 PM	61.4	61.5	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	24	1	100	1
9/23/2012	11:08 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	23	1	100	1
9/23/2012	11:09 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.121	0	0	0.002	0	56.3	58	41.7	54.9	10.75	0.0767	24	1	100	1
9/23/2012	11:10 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.122	0	0	0.003	0	56.3	58	41.7	54.9	10.75	0.0768	23	1	100	1
9/23/2012	11:11 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.121	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	24	1	100	1
9/23/2012	11:12 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.121	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	23	1	100	1
9/23/2012	11:13 PM	61.2	61.3	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.12	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	23	1	100	1
9/23/2012	11:14 PM	61.3	61.3	61.2	51	43	0	---	0	0	---	61.3	59.4	59.4	30.12	0	0	0.003	0	56.1	58	41.5	54.7	10.75	0.0768	24	1	100	1
9/23/2012	11:15 PM	61.3	61.3	61.2	51	43	0	---	0	0	---	61.3	59.4	59.4	30.12	0	0	0.003	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:16 PM	61.3	61.3	61.3	51	43	0	---	0	0	---	61.3	59.4	59.4	30.117	0	0	0.003	0	56	58	41.4	54.6	10.75	0.0768	24	1	100	1
9/23/2012	11:17 PM	61.4	61.4	61.3	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:18 PM	61.4	61.4	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	56	58	41.4	54.6	10.75	0.0768	23	1	100	1
9/23/2012	11:19 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.114	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	24	1	100	1
9/23/2012	11:20 PM	61.4	61.5	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.115	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:21 PM	61.5	61.5	61.5	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	24	1	100	1
9/23/2012	11:22 PM	61.4	61.5	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	22	1	95.7	1
9/23/2012	11:23 PM	61.5	61.5	61.4	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.112	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:24 PM	61.5	61.5	61.4	51	43.2	0	---	0	0	---	61.5	59.6	59.6	30.113	0	0	0.002	0	55.8	58	41.2	54.4	10.75	0.0768	23	1	100	1
9/23/2012	11:25 PM	61.4	61.4	61.4	51	43.1	0	---	0	0	---	61.4	59.5	59.5	30.112	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:26 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.113	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:27 PM	61.4	61.4	61.4	52	43.6	0	---	0	0	---	61.4	59.6	59.6	30.113	0	0	0.002	0	55.7	58	41.1	54.3	10.75	0.0768	23	1	100	1
9/23/2012	11:28 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.113	0	0	0.003	0	55.7	58	41.1	54.3	10.75	0.0768	22	1	95.7	1
9/23/2012	11:29 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.113	0	0	0.003	0	55.7	58	41.1	54.3	10.75	0.0768	22	1	95.7	1
9/23/2012	11:30 PM	61.3	61.3	61.3	52	43.5	0	---	0	0	---	61.3	59.5	59.5	30.112	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:31 PM	61.2	61.3	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:32 PM	61.2	61.2	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:33 PM	61.2	61.2	61.2	52	43.4	0	---	0	0	---	61.2	59.4	59.4	30.113	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:34 PM	61.1	61.2	61.1	52	43.3	0	---	0	0	---	61.1	59.3	59.3	30.114	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	23	1	100	1
9/23/2012	11:35 PM	61.1	61.1	61.1	52	43.3	0	---	0	0	---	61.1	59.3	59.3	30.114	0	0	0.003	0	55.5	58	41	54.1	10.75	0.0769	22	1	95.7	1
9/23/2012	11:36 PM	61	61.1	61	53	43.7	0	---	0	0	---	61	59.2	59.2	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:37 PM	60.9	61	60.9	52	43.1	0	---	0	0	---	60.9	59.1	59.1	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	23	1	100	1
9/23/2012	11:38 PM	60.9	60.9	60.9	53	43.6	0	---	0	0	---	60.9	59.1	59.1	30.114	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:39 PM	60.8	60.9	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.115	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	23	1	100	1
9/23/2012	11:40 PM	60.8	60.9	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.115	0	0	0.003	0	55.4	58	40.9	54	10.75	0.0769	24	1	100	1
9/23/2012	11:41 PM	60.8	60.8	60.8	53	43.6	0	---	0	0	---	60.8	59	59	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:42 PM	60.7	60.8	60.7	54	43.9	0	---	0	0	---	60.7	59	59	30.115	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:43 PM	60.7	60.7	60.7	53	43.5	0	---	0	0	---	60.7	58.9	58.9	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	24	1	100	1
9/23/2012	11:44 PM	60.7	60.7	60.7	54	43.9	0	---	0	0	---	60.7	59	59	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	23	1	100	1
9/23/2012	11:45 PM	60.6	60.7	60.6	54	43.9	0	---	0	0	---	60.6	58.9	58.9	30.116	0	0	0.003	0	55.2	58	40.7	53.8	10.75	0.0769	24	1	100	1
9/23/2012	11:46 PM	60.6	60.6	60.6	54	43.9	0	---	0	0	---	60.6	58.9	58.9	30.116	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:47 PM	60.5	60.6	60.5	54	43.8	0	---	0	0	---	60.5	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:48 PM	60.5	60.5	60.5	55	44.2	0	---	0	0	---	60.5	58.9	58.9	30.115	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	24	1	100	1
9/23/2012	11:49 PM	60.4	60.5	60.4	55	44.2	0	---	0	0	---	60.4	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	23	1	100	1
9/23/2012	11:50 PM	60.4	60.4	60.4	55	44.2	0	---	0	0	---	60.4	58.8	58.8	30.114	0	0	0.003	0	55.1	58	40.6	53.7	10.75	0.0769	24	1	100	1
9/23/2012	11:51 PM	60.3	60.4	60.3	56	44.5	0	---	0	0	---	60.3	58.8	58.8	30.114	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:52 PM	60.3	60.3	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.115	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	24	1	100	1
9/23/2012	11:53 PM	60.2	60.3	60.2	57	44.9	0	---	0	0	---	60.2	58.7	58.7	30.116	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:54 PM	60.2	60.2	60.2	56	44.4	0	---	0	0	---	60.2	58.7	58.7	30.115	0	0	0.003	0	54.9	58	40.4	53.5	10.75	0.077	23	1	100	1
9/23/2012	11:55 PM	60.1	60.2	60.1	57	44.8	0	---	0	0	---	60.1	58.6	58.6	30.116	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/23/2012	11:56 PM	60	60.1	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.117	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	23	1	100	1
9/23/2012	11:57 PM	60	60	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.117	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/23/2012	11:58 PM	60	60	60	57	44.7	0	---	0	0	---	60	58.5	58.5	30.116	0	0	0.003	0	54.8	58	40.3	53.4	10.75	0.077	22	1	95.7	1
9/23/2012	11:59 PM	59.9	60	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.117	0	0	0.004	0	54.8	58	40.3	53.4	10.75	0.077	23	1	100	1
9/24/2012	12:00 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.117	0	0	0.004	0	54.8	58	40.3	53.4	10.75	0.077	24	1	100	1
9/24/2012	12:01 AM	59.8	59.8	59.8	59	45.4	0	---	0	0	---	59.8	58.4	58.4	30.116	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	22	1	95.7	1
9/24/2012	12:02 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.115	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:03 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.115	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:04 AM	59.7	59.7	59.6	60	45.8	0	---	0	0	---	59.7	58.4	58.4	30.116	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	24	1	100	1
9/24/2012	12:05 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.117	0	0	0.004	0	54.6	58	40.1	53.3	10.75	0.077	23	1	100	1
9/24/2012	12:06 AM	59.6	59.6	59.6	60	45.7	0	---	0	0	---	59.6	58.3	58.3	30.115	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:07 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:08 AM	59.5	59.5	59.5	57	44.2	0	---	0	0	---	59.5	58	58	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:09 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.114	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	24	1	100	1
9/24/2012	12:10 AM	59.5	59.5	59.5	58	44.7	0	---	0	0	---	59.5	58.1	58.1	30.116	0	0	0.004	0	54.5	58	40	53.2	10.75	0.077	23	1	100	1
9/24/2012	12:11 AM	59.4	59.5	59.4	59	45.1	0	---	0	0	---	59.4	58	58	30.115	0	0	0.004	0	54.3	58	39.8	53	10.75	0.0771	24	1	100	1
9/24/2012	12:12 AM	59.4	59.4	59.4	58	44.6	0	---	0	0	---	59.4	58	58	30.114	0	0	0.004	0	54.3	58

Meteorological Data
Equity IRM

9/24/2012	1:31 AM	59.3	59.4	59.3	57	44.1	0	---	0	0	---	59.3	57.8	57.8	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:32 AM	59.3	59.3	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.118	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:33 AM	59.2	59.3	59.2	59	44.9	0	---	0	0	---	59.2	57.8	57.8	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:34 AM	59.2	59.2	59.1	58	44.4	0	---	0	0	---	59.2	57.8	57.8	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:35 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:36 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:37 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:38 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.12	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	24	1	100	1
9/24/2012	1:39 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.119	0	0	0.004	0	52.6	59	38.7	51.5	10.95	0.0774	23	1	100	1
9/24/2012	1:40 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:41 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:42 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:43 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:44 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.118	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:45 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:46 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:47 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.117	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:48 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:49 AM	59	59	58.9	57	43.8	0	---	0	0	---	59	57.5	57.5	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:50 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.116	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:51 AM	58.9	58.9	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.115	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	23	1	100	1
9/24/2012	1:52 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.115	0	0	0.004	0	52.4	59	38.5	51.3	10.95	0.0774	24	1	100	1
9/24/2012	1:53 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.114	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:54 AM	58.8	58.9	58.8	57	43.6	0	---	0	0	---	58.8	57.3	57.3	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	1:55 AM	58.9	58.9	58.8	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	1:56 AM	58.9	58.9	58.8	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:57 AM	58.9	58.9	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	1:58 AM	58.9	59	58.9	57	43.7	0	---	0	0	---	58.9	57.4	57.4	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	1:59 AM	59	59	59	56	43.3	0	---	0	0	---	59	57.5	57.5	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:00 AM	59	59	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:01 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:02 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.113	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:03 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:04 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:05 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:06 AM	59.1	59.1	59.1	56	43.4	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:07 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:08 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.112	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:09 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:10 AM	59.1	59.1	59.1	56	43.4	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:11 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:12 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	21	1	91.3	1
9/24/2012	2:13 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:14 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:15 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:16 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:17 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.111	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:18 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	22	1	95.7	1
9/24/2012	2:19 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:20 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:21 AM	59.1	59.1	59	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:22 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:23 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:24 AM	59.1	59.1	59.1	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:25 AM	59.1	59.1	59	57	43.9	0	---	0	0	---	59.1	57.6	57.6	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:26 AM	59	59.1	59	57	43.8	0	---	0	0	---	59	57.5	57.5	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:27 AM	59	59	59	58	44.2	0	---	0	0	---	59	57.6	57.6	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:28 AM	58.9	59	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	24	1	100	1
9/24/2012	2:29 AM	58.9	58.9	58.9	58	44.1	0	---	0	0	---	58.9	57.5	57.5	30.109	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:30 AM	58.8	58.9	58.8	58	44	0	---	0	0	---	58.8	57.4	57.4	30.11	0	0	0.004	0	52.3	59	38.4	51.2	10.95	0.0774	23	1	100	1
9/24/2012	2:31 AM	58.7	58.8	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:32 AM	58.7	58.7	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:33 AM	58.7	58.7	58.7	59	44.4	0	---	0	0	---	58.7	57.3	57.3	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:34 AM	58.6	58.7	58.6	59	44.3	0	---	0	0	---	58.6	57.2	57.2	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:35 AM	58.6	58.6	58.6	59	44.3	0	---	0	0	---	58.6	57.2	57.2	30.11	0	0	0.004	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:36 AM	58.5	58.6	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.109	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:37 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.11	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:38 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.109	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:39 AM	58.5	58.5	58.4	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:40 AM	58.4	58.5	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:41 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:42 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.112	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:43 AM	58.4	58.4	58.3	59	44.1	0	---	0	0	---	58.4	57	57	30.112	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:44 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:45 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	24	1	100	1
9/24/2012	2:46 AM	58.4	58.4	58.4	59	44.1	0	---	0	0	---	58.4	57	57	30.111	0	0	0.005	0	52.1	59	38.2	51	10.95	0.0774	23	1	100	1
9/24/2012	2:47 AM	58.5	58.5	58.4	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:48 AM	58.5	58.5	58.5	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.112	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:49 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:50 AM	58.5	58.5	58.5	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:51 AM	58.5	58.5	58.5	59	44.2	0	---	0	0	---	58.5	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:52 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	2:53 AM	58.4	58.5	58.4	60	44.6	0	---	0	0	---	58.4	57.1	57.1	30.111	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:54 AM	58.4	58.4	58.4	60	44.6	0	---	0	0	---	58.4	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:55 AM	58.4	58.4	58.4	61	45	0	---	0	0	---	58.4	57.2	57.2	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:56 AM	58.4	58.4	58.4	62	45.4	0	---	0	0	---	58.4	57.2	57.2	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:57 AM	58.3	58.4	58.3	62	45.3	0	---	0	0	---	58.3	57.1	57.1	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:58 AM	58.2	58.3	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.11	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	23	1	100	1
9/24/2012	2:59 AM	58.2	58.2	58.2	62	45.2	0	---	0	0	---	58.2	57	57	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:00 AM	58.1	58.2	58.1	62	45.1	0	---	0	0	---	58.1	56.9	56.9	30.108	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	24	1	100	1
9/24/2012	3:01 AM	58	58.1	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:02 AM	58	58	58	62	45	0	---	0	0	---	58	56.8	56.8	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	24	1	100	1
9/24/2012	3:03 AM	57.9	58	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:04 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	52	59	38.1	51	10.95	0.0775	22	1	95.7	1
9/24/2012	3:05 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.108	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	23	1	100	1
9/24/2012	3:06 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.107	0	0	0.005	0	52	59	38.1	51	10.95	0.0774	22	1	95.7	1
9/24/2012	3:07 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:08 AM	57.9	57.9	57.8	62	45	0	---	0	0	---	57.9	56.7	56.7	30.11	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:09 AM	57.8	57.9	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.111	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:10 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	22	1	95.7	1
9/24/2012	3:11 AM	57.8	57.8	57.8	62	44.9	0	---	0	0	---	57.8	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	23	1	100	1
9/24/2012	3:12 AM	57.7	57.8	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.109	0	0	0.005	0	51.8	59	37.9	50.8	10.95	0.0775	24	1	100	1
9/24/2012	3:13 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---

Meteorological Data
Equity IRM

9/24/2012	4:31 AM	57.4	57.4	57.3	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.116	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	24	1	100	1
9/24/2012	4:32 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:33 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.114	0	0	0.005	0	50	60	36.7	49.2	11.15	0.0778	23	1	100	1
9/24/2012	4:34 AM	57.4	57.4	57.4	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:35 AM	57.4	57.4	57.3	62	44.5	0	---	0	0	---	57.4	56.2	56.2	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:36 AM	57.3	57.4	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:37 AM	57.3	57.4	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.114	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:38 AM	57.3	57.3	57.3	61	44	0	---	0	0	---	57.3	56.1	56.1	30.115	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:39 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:40 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.117	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:41 AM	57.3	57.3	57.3	62	44.4	0	---	0	0	---	57.3	56.1	56.1	30.118	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	24	1	100	1
9/24/2012	4:42 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.116	0	0	0.005	0	50.2	60	36.8	49.4	11.15	0.0778	23	1	100	1
9/24/2012	4:43 AM	57.2	57.3	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	24	1	100	1
9/24/2012	4:44 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:45 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	22	1	95.7	1
9/24/2012	4:46 AM	57.2	57.2	57.2	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.116	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	24	1	100	1
9/24/2012	4:47 AM	57.2	57.2	57.2	62	44.3	0	---	0	0	---	57.2	56	56	30.116	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	22	1	95.7	1
9/24/2012	4:48 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:49 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.118	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:50 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.118	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:51 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.3	60	36.9	49.5	11.14	0.0778	23	1	100	1
9/24/2012	4:52 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.117	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:53 AM	57.1	57.2	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	4:54 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.118	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:55 AM	57.1	57.2	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	4:56 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.114	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:57 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	22	1	95.7	1
9/24/2012	4:58 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	4:59 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	23	1	100	1
9/24/2012	5:00 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.5	60	37.1	49.7	11.14	0.0777	24	1	100	1
9/24/2012	5:01 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	59	36.7	49.6	10.95	0.0777	23	1	100	1
9/24/2012	5:02 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.116	0	0	0.005	0	50.5	59	36.7	49.6	10.95	0.0777	24	1	100	1
9/24/2012	5:03 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.115	0	0	0.005	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:04 AM	57	57.1	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.115	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:05 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.115	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:06 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.116	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:07 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.116	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:08 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.117	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:09 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.118	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:10 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.118	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:11 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:12 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	24	1	100	1
9/24/2012	5:13 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.6	59	36.8	49.7	10.95	0.0777	23	1	100	1
9/24/2012	5:14 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.119	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:15 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:16 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:17 AM	56.9	57	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:18 AM	57	57	57	64	44.9	0	---	0	0	---	57	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:19 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:20 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:21 AM	57	57	57	65	45.3	0	---	0	0	---	57	56	56	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:22 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:23 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:24 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:25 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:26 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:27 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:28 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:29 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:30 AM	56.8	56.9	56.8	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:31 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:32 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:33 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:34 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:35 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:36 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:37 AM	56.8	56.9	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.12	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:38 AM	56.9	56.9	56.8	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:39 AM	56.9	56.9	56.8	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.121	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:40 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:41 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:42 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:43 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:44 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:45 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:46 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:47 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:48 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:49 AM	56.9	56.9	56.9	65	45.3	0	---	0	0	---	56.9	55.9	55.9	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	22	1	95.7	1
9/24/2012	5:50 AM	56.9	56.9	56.9	66	45.7	0	---	0	0	---	56.9	55.9	55.9	30.122	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:51 AM	56.8	56.9	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:52 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:53 AM	56.8	56.8	56.8	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:54 AM	56.8	56.8	56.7	66	45.6	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:55 AM	56.7	56.7	56.7	66	45.5	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:56 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.123	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:57 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	5:58 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	5:59 AM	56.7	56.7	56.7	65	45.1	0	---	0	0	---	56.7	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:00 AM	56.8	56.8	56.7	65	45.2	0	---	0	0	---	56.8	55.8	55.8	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:01 AM	56.7	56.7	56.7	64	44.7	0	---	0	0	---	56.7	55.6	55.6	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:02 AM	56.8	56.8	56.7	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:03 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:04 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.124	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:05 AM	56.8	56.8	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:06 AM	56.8	56.9	56.8	64	44.7	0	---	0	0	---	56.8	55.7	55.7	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	23	1	100	1
9/24/2012	6:07 AM	56.9	56.9	56.8	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.8	59	37	49.9	10.95	0.0777	24	1	100	1
9/24/2012	6:08 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:09 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.125	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:10 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:11 AM	56.9	56.9	56.9	64	44.8	0	---	0	0	---	56.9	55.8	55.8	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	23	1	100	1
9/24/2012	6:12 AM	57	57	56.9	63	44.5	0	---	0	0	---	57	55.9	55.9	30.127	0	0	0.006	0	50.9	59	37.1	50	10.95	0.0777	24	1	100	1
9/24/2012	6:13 AM	57	57	56.9

Meteorological Data
Equity IRM

9/24/2012	7:31 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.148	0	0	0.005	0	52.6	63	40.4	51.7	11.75	0.0774	23	1	100	1
9/24/2012	7:32 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.146	0	0	0.005	0	52.7	63	40.5	51.8	11.75	0.0774	23	1	100	1
9/24/2012	7:33 AM	57.1	57.1	57.1	63	44.6	0	---	0	0	---	57.1	56	56	30.147	0	0	0.005	0	52.7	63	40.5	51.8	11.75	0.0774	22	1	95.7	1
9/24/2012	7:34 AM	57	57.1	57	63	44.5	0	---	0	0	---	57	55.9	55.9	30.146	0	0	0.006	0	52.8	63	40.5	51.8	11.75	0.0774	24	1	100	1
9/24/2012	7:35 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.145	0	0	0.005	0	52.8	63	40.5	51.8	11.75	0.0774	22	1	95.7	1
9/24/2012	7:36 AM	57.1	57.1	57.1	64	45	0	---	0	0	---	57.1	56	56	30.144	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	23	1	100	1
9/24/2012	7:37 AM	57.2	57.2	57.1	64	45.1	0	---	0	0	---	57.2	56.1	56.1	30.145	0	0	0.005	0	53	63	40.7	52	11.75	0.0773	24	1	100	1
9/24/2012	7:38 AM	57.2	57.2	57.1	63	44.7	0	---	0	0	---	57.2	56.1	56.1	30.15	0	0	0.005	0	53.1	63	40.8	52.1	11.75	0.0773	23	1	100	1
9/24/2012	7:39 AM	57.3	57.3	57.2	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.151	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	24	1	100	1
9/24/2012	7:40 AM	57.3	57.3	57.3	64	45.2	0	---	0	0	---	57.3	56.2	56.2	30.148	0	0	0.005	0	53.3	63	41	52.3	11.75	0.0773	23	1	100	1
9/24/2012	7:41 AM	57.4	57.4	57.3	64	45.3	0	---	0	0	---	57.4	56.3	56.3	30.147	0	0	0.005	0	53.4	63	41.1	52.4	11.75	0.0773	24	1	100	1
9/24/2012	7:42 AM	57.4	57.4	57.4	63	44.9	0	---	0	0	---	57.4	56.3	56.3	30.146	0	0	0.005	0	53.6	63	41.3	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:43 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.146	0	0	0.005	0	53.7	63	41.4	52.6	11.75	0.0772	23	1	100	1
9/24/2012	7:44 AM	57.5	57.5	57.5	63	45	0	---	0	0	---	57.5	56.4	56.4	30.148	0	0	0.005	0	53.9	63	41.6	52.8	11.75	0.0772	24	1	100	1
9/24/2012	7:45 AM	57.6	57.6	57.6	63	45.1	0	---	0	0	---	57.6	56.5	56.5	30.15	0	0	0.005	0	54	63	41.7	52.9	11.75	0.0772	23	1	100	1
9/24/2012	7:46 AM	57.7	57.7	57.6	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.148	0	0	0.005	0	54.2	62	41.5	53.1	11.55	0.0771	24	1	100	1
9/24/2012	7:47 AM	57.7	57.7	57.7	63	45.2	0	---	0	0	---	57.7	56.6	56.6	30.15	0	0	0.005	0	54.3	62	41.6	53.2	11.55	0.0771	23	1	100	1
9/24/2012	7:48 AM	57.8	57.8	57.7	63	45.3	0	---	0	0	---	57.8	56.7	56.7	30.15	0	0	0.005	0	54.5	63	42.2	53.4	11.75	0.0771	23	1	100	1
9/24/2012	7:49 AM	57.8	57.8	57.8	63	45.3	0	---	0	0	---	57.8	56.7	56.7	30.15	0	0	0.005	0	54.6	63	42.3	53.5	11.75	0.0771	24	1	100	1
9/24/2012	7:50 AM	57.9	57.9	57.9	63	45.4	0	---	0	0	---	57.9	56.8	56.8	30.148	0	0	0.005	0	54.8	63	42.4	53.7	11.75	0.077	23	1	100	1
9/24/2012	7:51 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.149	0	0	0.005	0	55.1	63	42.7	54	11.75	0.077	24	1	100	1
9/24/2012	7:52 AM	57.9	57.9	57.9	62	45	0	---	0	0	---	57.9	56.7	56.7	30.149	0	0	0.005	0	55.2	63	42.8	54.1	11.75	0.077	23	1	100	1
9/24/2012	7:53 AM	58	58	57.9	61	44.6	0	---	0	0	---	58	56.8	56.8	30.15	0	0	0.005	0	55.4	62	42.6	54.2	11.54	0.0769	24	1	100	1
9/24/2012	7:54 AM	58	58	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.153	0	0	0.005	0	55.5	62	42.7	54.3	11.54	0.0769	23	1	100	1
9/24/2012	7:55 AM	58	58	58	61	44.6	0	---	0	0	---	58	56.8	56.8	30.153	0	0	0.005	0	55.7	62	42.9	54.5	11.54	0.0769	23	1	100	1
9/24/2012	7:56 AM	58.1	58.1	58	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.15	0	0	0.005	0	55.8	62	43	54.6	11.53	0.0769	24	1	100	1
9/24/2012	7:57 AM	58.1	58.1	58.1	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.151	0	0	0.005	0	56	62	43.2	54.8	11.53	0.0768	23	1	100	1
9/24/2012	7:58 AM	58.1	58.1	58.1	61	44.7	0	---	0	0	---	58.1	56.9	56.9	30.153	0	0	0.005	0	56.3	62	43.4	55.1	11.52	0.0768	23	1	100	1
9/24/2012	7:59 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.152	0	0	0.005	0	56.4	62	43.5	55.2	11.52	0.0768	23	1	100	1
9/24/2012	8:00 AM	58.2	58.2	58.2	61	44.8	0	---	0	0	---	58.2	57	57	30.152	0	0	0.005	0	56.5	62	43.6	55.3	11.52	0.0767	22	1	95.7	1
9/24/2012	8:01 AM	58.3	58.3	58.2	61	44.9	0	---	0	0	---	58.3	57.1	57.1	30.15	0	0	0.005	0	57	61	43.7	55.8	11.25	0.0767	24	1	100	1
9/24/2012	8:02 AM	58.3	58.3	58.3	61	44.9	0	---	0	0	---	58.3	57.1	57.1	30.149	0	0	0.005	0	57.6	61	44.2	56.4	11.25	0.0766	23	1	100	1
9/24/2012	8:03 AM	58.4	58.4	58.4	61	45	0	---	0	0	---	58.4	57.2	57.2	30.147	0	0	0.005	0	58.1	61	44.7	56.9	11.25	0.0765	24	1	100	1
9/24/2012	8:04 AM	58.5	58.5	58.4	60	44.7	0	---	0	0	---	58.5	57.2	57.2	30.149	0	0	0.005	0	58.7	60	44.8	57.4	11.12	0.0764	23	1	100	1
9/24/2012	8:05 AM	58.5	58.5	58.5	61	45.1	0	---	0	0	---	58.5	57.3	57.3	30.147	0	0	0.005	0	59.3	60	45.4	58	11.14	0.0763	23	1	100	1
9/24/2012	8:06 AM	58.6	58.6	58.6	61	45.2	0	---	0	0	---	58.6	57.4	57.4	30.149	0	0	0.004	0	59.9	59	45.5	58.5	10.95	0.0762	24	1	100	1
9/24/2012	8:07 AM	58.7	58.7	58.6	61	45.3	0	---	0	0	---	58.7	57.5	57.5	30.146	0	0	0.004	0	60.5	59	46.1	59.2	10.95	0.0761	23	1	100	1
9/24/2012	8:08 AM	58.8	58.8	58.7	61	45.4	0	---	0	0	---	58.8	57.6	57.6	30.146	0	0	0.004	0	61.1	59	46.7	59.8	10.95	0.076	24	1	100	1
9/24/2012	8:09 AM	59	59	58.8	61	45.6	0	---	0	0	---	59	57.8	57.8	30.145	0	0	0.004	0	61.6	58	46.7	60.3	10.75	0.0759	22	1	95.7	1
9/24/2012	8:10 AM	59.1	59.1	59	61	45.7	0	---	0	0	---	59.1	57.9	57.9	30.149	0	0	0.004	0	62.2	58	47.2	60.9	10.75	0.0758	24	1	100	1
9/24/2012	8:11 AM	59.2	59.2	59.1	60	45.3	0	---	0	0	---	59.2	57.9	57.9	30.146	0	0	0.004	0	62.7	58	47.7	61.5	10.75	0.0757	23	1	100	1
9/24/2012	8:12 AM	59.3	59.3	59.2	60	45.4	0	---	0	0	---	59.3	58	58	30.144	0	0	0.004	0	63.3	57	47.8	62.1	10.62	0.0756	23	1	100	1
9/24/2012	8:13 AM	59.4	59.4	59.3	60	45.5	0	---	0	0	---	59.4	58.1	58.1	30.148	0	0	0.004	0	63.8	57	48.3	62.6	10.63	0.0755	24	1	100	1
9/24/2012	8:14 AM	59.5	59.5	59.4	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.147	0	0	0.004	0	64.3	56	48.3	63.1	10.45	0.0755	23	1	100	1
9/24/2012	8:15 AM	59.5	59.5	59.5	59	45.2	0	---	0	0	---	59.5	58.1	58.1	30.148	0	0	0.004	0	64.9	56	48.8	63.8	10.45	0.0754	23	1	100	1
9/24/2012	8:16 AM	59.6	59.6	59.5	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.147	0	0	0.004	0	65.4	56	49.3	64.3	10.44	0.0753	22	1	95.7	1
9/24/2012	8:17 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.146	0	0	0.004	0	65.9	56	49.8	64.9	10.43	0.0752	23	1	100	1
9/24/2012	8:18 AM	59.7	59.7	59.6	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.146	0	0	0.004	0	66.4	55	49.7	65.4	10.22	0.0751	23	1	100	1
9/24/2012	8:19 AM	59.7	59.8	59.7	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.146	0	0	0.004	0	66.9	55	50.2	66	10.21	0.075	22	1	95.7	1
9/24/2012	8:20 AM	59.9	59.9	59.8	59	45.5	0	---	0	0	---	59.9	58.5	58.5	30.146	0	0	0.004	0	67.2	55	50.5	66.3	10.21	0.075	23	1	100	1
9/24/2012	8:21 AM	59.9	59.9	59.9	59	45.5	0	---	0	0	---	59.9	58.5	58.5	30.149	0	0	0.004	0	67.7	54	50.5	66.8	10.04	0.0749	23	1	100	1
9/24/2012	8:22 AM	59.9	59.9	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.149	0	0	0.004	0	68.2	54	50.9	67.3	10.02	0.0748	23	1	100	1
9/24/2012	8:23 AM	59.9	59.9	59.9	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.15	0	0	0.004	0	68.5	53	50.7	67.4	9.88	0.0748	21	1	91.3	1
9/24/2012	8:24 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.149	0	0	0.004	0	68.9	53	51.1	67.8	9.87	0.0747	23	1	100	1
9/24/2012	8:25 AM	59.8	59.9	59.8	58	45	0	---	0	0	---	59.8	58.4	58.4	30.149	0	0	0.004	0	69.2	53	51.3	68	9.87	0.0747	23	1	100	1
9/24/2012	8:26 AM	59.7	59.8	59.7	58	44.9	0	---	0	0	---	59.7	58.3	58.3	30.15	0	0	0.004	0	69.6	53	51.7	68.3	9.86	0.0746	23	1	100	1
9/24/2012	8:27 AM	59.6	59.7	59.6	58	44.8	0	---	0	0	---	59.6	58.2	58.2	30.149	0	0	0.004	0	69.7	53	51.8	68.3	9.86	0.0746	22	1	95.7	1
9/24/2012	8:28 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.151	0	0	0.004	0	69.9	52	51.5	68.4	9.65	0.0746	22	1	95.7	1
9/24/2012	8:29 AM	59.6	59.6	59.6	58	44.8	0	---	0	0	---	59.6	58.2	58.2	30.149	0	0	0.004	0	69.9	52	51.5	68.4	9.65	0.0746	22	1	95.7	1
9/24/2012	8:30 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.15	0	0	0.004	0	70.1	52	51.7	68.6	9.65	0.0745	24	1	100	1
9/24/2012	8:31 AM	59.6	59.6	59.6	59	45.2	0	---	0	0	---	59.6	58.2	58.2	30.151	0	0	0.004	0	70.1	52	51.7	68.6	9.65	0.0745	22	1	95.7	1
9/24/2012	8:32 AM	59.7	59.7	59.6	59	45.3	0	---	0	0	---	59.7	58.3	58.3	30.149	0	0	0.004	0	70.2	52	51.7	68.7	9.65	0.0745	24	1	100	1
9/24/2012	8:33 AM	59.8	59.8	59.7	59	45.4	0	---	0	0	---	59.8	58.4	58.4	30.151	0	0	0.004	0	70.4	52	51.9	69	9.64	0.0745	23	1	100	1
9/24/2012	8:34 AM	59.9	59.9	59.8	58	45.1	0	---	0	0	---	59.9	58.5	58.5	30.152	0	0	0.004	0	70.6	51	51.6	69.2	9.44	0.0745	24	1	100	1
9/24/2012	8:35 AM	60	60	59.9	58	45.2	0	---	0	0	---	60	58.6	58.6	30.155	0	0	0.003	0	70.6	51	51.6	69.2	9.44	0.0745	23	1	100	1
9/24/2012	8:36 AM	60.1	60.1	60	58	45.3	0	---	0	0	---	60.1	58.7	58.7	30.155	0	0	0.003	0	70.7	51	51.7	69.3	9.44	0.0744	23	1	100	1
9/24/2012	8:37 AM	60.2	60.2	60.1	58	45.4	0	---	0	0	---	60.2	58.8	58.8	30.155	0	0	0.003	0	70.9	51	51.9	69.6	9.43	0.0744	24	1	100	1
9/24/2012	8:38 AM	60.3	60.3	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.155	0	0	0.003	0	71.2	51	52.1	70	9.43	0.0744	23	1	100	1
9/24/2012	8:39 AM	60.4	60.4	60.3	56	44.6	0	---	0	0	---	60.4	58.9	58.9	30.156	0	0	0.003	0	71.4	50	51.8	70.2	9.25	0.0743	24	1	100	1
9/24/2012	8:40 AM	60.3	60.4	60.3	57	45	0	---	0	0	---	60.3	58.8	58.8	30.155	0	0	0.003	0	71.6	50	52	70.5	9.25	0.0743	22	1	95.7	1
9/24/2012	8:41 AM	60.4	60.4	60.3	56	44.6	0	---	0	0	---	60.4	58.9	58.9	30.155	0	0	0.003	0	71.8	50	52.2	70.8	9.25	0.0743	23	1	100	1
9/24/2012	8:42 AM	60.4	60.4	60.3	57	45.1	0	---	0	0	---	60.4	58.9	58.9	30.153	0	0	0.003	0	72.1	50	52.4	71.2	9.25	0.0742	24	1	100	1
9/24/2012	8:43 AM	60.4	60.4	60.4	57	45.1	0	---	0	0	---	60.4	58.9	58.9	30.151	0	0	0.003	0	72.3	50	52.6	71.5	9.25	0.0742	23	1	100	1
9/24/2012	8:44 AM	60.5	60.5	60.5	56	44.7	0	---	0	0	---	60.5	59	59	30.153	0	0	0.003	0	72.4	49	52.2	71.6	9.05	0.0742	24	1	100	1
9/24/2012	8:45 AM	60.6	60.6	60.5	56	44.8	0	---	0	0	---	60.6	59.1	59.1	30.152	0	0	0.003	0	72.8	49	52.5	72.1	9.05	0.0741	22	1	95.7	1
9/24/2012	8:46 AM	60.6	60.6	60.6	56	44.8	0	---	0	0	---	60.6	59.1	59.1	30.153	0	0	0.003	0	73	49	52.7	72.4	9.05	0.0741	24	1	100	1
9/24/2012	8:47 AM	60.7	60.7	60.6	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.153	0	0	0.003	0	73.3	49	53	72.8	9.05	0.074	23	1	100	1
9/24/2012	8:48 AM	60.8	60.8	60.7	56	45	0	---	0	0	---	60.8	59.3	59.3	30.153	0	0	0.003	0	73.5	48	52.6	73	8.92	0.074	23	1	100	1
9/24/2012	8:49 AM	60.9	60.9	60.8	57	45.6	0	---	0	0	---	60.9	59.5	59.5	30.155	0	0	0.003	0	73.8	48	52.9	73.3	8.93	0.074	24	1	100	1
9/24/2012	8:50 AM	61	61	60.9	56	45.2	0	---	0	0	---	61	59.5	59.5	30.154	0	0	0.003	0	74	48	53.1	73.6	8.93	0.0739	23	1	100	1
9/24/2012	8:51 AM	61.1	61.1	61	56	45.3	0	---	0	0	---	61.1	59.6	59.6	30.155	0	0	0.003	0	74.3	47	52.8	73.9	8.75	0.0739	24	1	100	1
9/24/2012	8:52 AM	61.2	61.2	61.2	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.154	0	0	0.003	0	74.5	47	52.9	74.2	8.75	0.0739	23	1	100	1
9/24/2012	8:53 AM	61.3	61.3	61.2	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.154	0	0	0.003	0	74.9	47	53.3	74.7	8.75	0.0738	23	1	100	1
9/24/2012	8:54 AM	61.3	61.3	61.3	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.155	0	0	0.003	0	75	47	53.4	74.9	8.75	0.0738	24	1	100	1
9/24/2012	8:55 AM	61.3	61.3	61.3	56	45.5	0	---	0	0	---	61.3	59.8	59.8	30.156	0	0	0.003	0	75.4	47	53.8	75.2	8.74	0.0737	23	1	100	1
9/24/2012	8:56 AM	61.4	61.4	61.3	56	45.6	0	---	0	0	---	61.4	59.9	59.9	30.157	0	0	0.002	0	75.7	47	54	75.5	8.74	0.0737	24	1	100	1
9/24/2012	8:57 AM	61.4	61.4	61.4	55	45.1	0	---	0	0	---	61.4	59.8	59.8	30.158	0	0	0.002	0	75.9	47	54.2	75.7	8.73	0.0736	23	1	100	1
9/24/2012	8:58 AM	61.3	61.4	61.3	55	45	0	---	0	0	---	61.3	59.7	59.7	30.158	0	0	0.003	0	76.1	46	53.8	75.8	8.53	0.0736	23	1	100	1
9/24/2012	8:59 AM	61.3	61.3	61.3	54	44.5	0	---	0	0	---	61.3	59.6	59.6	30.159	0	0	0.003	0	76.3	46	54	75.9	8.52	0.0736	23	1	100	1
9/24/2012	9:00 AM	61.2	61.3	61.2	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.159	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:01 AM	61	61.2	61	55	44.7	0	---	0	0	---	61	59.4	59.4	30.158	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:02 AM	60.8	61	60.8	54	44	0	---	0	0	---	60.8	59.1	59.1	30.159	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	23	1	100	1
9/24/2012	9:03 AM	60.7	60.8	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.158	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	24	1	100	1
9/24/2012	9:04 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.156	0	0	0.003	0	76.6	46	54.3	76.2	8.52	0.0735	22	1	95.7	1
9/24/2012	9:05 AM	60.7	60.7	60.7	56	44.9	0	---	0	0	---	60.7	59.2	59.2	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:06 AM	60.8	60.8	60.7	56	45	0	---	0	0	---	60.8	59.3	59.3	30.157	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	24	1	100	1
9/24/2012	9:07 AM	60.9	60.9	60.8	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.158	0	0	0.003	0	76.4	46	54.1	76	8.52	0.0736	23	1	100	1
9/24/2012	9:08 AM	60.9	60.9	60.9	56	45.1	0	---	0	0	---	60.9	59.4	59.4	30.157	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:09 AM	61	61.1	60.9	55	44.7	0	---	0	0	---	61	59.4	59.4	30.16	0	0	0.003	0	76.6	45	53.7	76.1	8.42	0.0736	23	1	100	1
9/24/2012	9:10 AM	61.2	61.2	61.1	55	44.9	0	---	0	0	---	61.2	59.6	59.6	30.161	0	0	0.003	0	76.8	45	53.8	76.3	8.41	0.0735	22	1	95.7	1
9/24/2012	9:11 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.158	0	0	0.003	0	77	45	54	76.5	8.41	0.0735	24	1	100	1
9/24/2012	9:12 AM	61.2	61.2	61.2	54	44.4	0	---	0	0	---	61.2	59.5	59.5	30.161	0	0	0.003	0

Meteorological Data
Equity IRM

9/24/2012	10:31 AM	63.1	63.2	63.1	44	40.8	0	---	0	0	---	63.1	60.7	60.7	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:32 AM	63.2	63.2	63.1	45	41.5	0	---	0	0	---	63.2	60.9	60.9	30.165	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:33 AM	63.2	63.2	63.2	44	40.9	0	---	0	0	---	63.2	60.8	60.8	30.165	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:34 AM	63.4	63.4	63.3	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.163	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	23	1	100	1
9/24/2012	10:35 AM	63.6	63.6	63.4	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.164	0	0	0.001	0	83.5	34	52.2	82.4	6.51	0.0727	24	1	100	1
9/24/2012	10:36 AM	63.7	63.7	63.6	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:37 AM	63.8	63.8	63.7	46	42.6	0	---	0	0	---	63.8	61.7	61.7	30.163	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:38 AM	63.9	63.9	63.9	45	42.1	0	---	0	0	---	63.9	61.7	61.7	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:39 AM	63.7	63.9	63.7	42	40.2	0	---	0	0	---	63.7	61.2	61.2	30.165	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	23	1	100	1
9/24/2012	10:40 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.164	0	0	0.001	0	83.7	34	52.3	82.7	6.5	0.0727	24	1	100	1
9/24/2012	10:41 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:42 AM	63.6	63.7	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.164	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	24	1	100	1
9/24/2012	10:43 AM	63.6	63.6	63.6	44	41.3	0	---	0	0	---	63.6	61.3	61.3	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:44 AM	63.6	63.6	63.6	46	42.4	0	---	0	0	---	63.6	61.4	61.4	30.163	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	23	1	100	1
9/24/2012	10:45 AM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.161	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0727	24	1	100	1
9/24/2012	10:46 AM	63.6	63.6	63.6	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.16	0	0	0.001	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	10:47 AM	63.5	63.6	63.5	44	41.2	0	---	0	0	---	63.5	61.2	61.2	30.161	0	0	0.001	0	83.9	34	52.5	83	6.49	0.0726	24	1	100	1
9/24/2012	10:48 AM	63.4	63.5	63.4	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:49 AM	63.5	63.5	63.5	44	41.2	0	---	0	0	---	63.5	61.2	61.2	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:50 AM	63.4	63.5	63.4	44	41.1	0	---	0	0	---	63.4	61.1	61.1	30.161	0	0	0.001	0	84.1	34	52.7	83.2	6.49	0.0726	22	1	95.7	1
9/24/2012	10:51 AM	63.4	63.4	63.4	43	40.5	0	---	0	0	---	63.4	61	61	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:52 AM	63.5	63.5	63.4	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:53 AM	63.6	63.6	63.5	45	41.9	0	---	0	0	---	63.6	61.4	61.4	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:54 AM	63.7	63.7	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.162	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	10:55 AM	63.7	63.7	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.163	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	22	1	95.7	1
9/24/2012	10:56 AM	63.8	63.9	63.7	43	40.9	0	---	0	0	---	63.8	61.4	61.4	30.163	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	22	1	95.7	1
9/24/2012	10:57 AM	63.9	63.9	63.9	43	41	0	---	0	0	---	63.9	61.5	61.5	30.163	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	10:58 AM	63.9	63.9	63.9	45	42.1	0	---	0	0	---	63.9	61.7	61.7	30.16	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	22	1	95.7	1
9/24/2012	10:59 AM	64	64	63.9	43	41	0	---	0	0	---	64	61.6	61.6	30.161	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:00 AM	64	64.1	64	44	41.6	0	---	0	0	---	64	61.7	61.7	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:01 AM	64	64	64	43	41	0	---	0	0	---	64	61.6	61.6	30.161	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:02 AM	63.9	64	63.9	43	41	0	---	0	0	---	63.9	61.5	61.5	30.16	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:03 AM	63.8	63.9	63.8	43	40.9	0	---	0	0	---	63.8	61.4	61.4	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:04 AM	63.7	63.8	63.7	42	40.2	0	---	0	0	---	63.7	61.2	61.2	30.158	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	11:05 AM	63.7	63.8	63.7	43	40.8	0	---	0	0	---	63.7	61.3	61.3	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:06 AM	63.7	63.7	63.7	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	24	1	100	1
9/24/2012	11:07 AM	63.7	63.7	63.6	44	41.4	0	---	0	0	---	63.7	61.4	61.4	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:08 AM	63.5	63.6	63.5	45	41.8	0	---	0	0	---	63.5	61.3	61.3	30.159	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	23	1	100	1
9/24/2012	11:09 AM	63.4	63.5	63.4	46	42.2	0	---	0	0	---	63.4	61.2	61.2	30.158	0	0	0.001	0	84.3	32	51.2	83	6.26	0.0726	24	1	100	1
9/24/2012	11:10 AM	63.3	63.4	63.3	46	42.2	0	---	0	0	---	63.3	61.1	61.1	30.159	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:11 AM	63.2	63.3	63.2	46	42.1	0	---	0	0	---	63.2	61	61	30.157	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:12 AM	63.2	63.2	63.2	47	42.6	0	---	0	0	---	63.2	61.1	61.1	30.156	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/24/2012	11:13 AM	63.5	63.5	63.2	46	42.3	0	---	0	0	---	63.5	61.3	61.3	30.158	0	0	0.001	0	84.3	33	52.1	83.2	6.38	0.0726	24	1	100	1
9/24/2012	11:14 AM	63.8	63.8	63.5	45	42	0	---	0	0	---	63.8	61.6	61.6	30.158	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:15 AM	64	64	63.8	45	42.2	0	---	0	0	---	64	61.8	61.8	30.157	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	22	1	95.7	1
9/24/2012	11:16 AM	64.2	64.2	64	45	42.4	0	---	0	0	---	64.2	62	62	30.157	0	0	0.001	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:17 AM	64.3	64.3	64.2	44	41.9	0	---	0	0	---	64.3	62	62	30.155	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/24/2012	11:18 AM	64.4	64.4	64.3	43	41.4	0	---	0	0	---	64.4	62	62	30.155	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/24/2012	11:19 AM	64.4	64.4	64.4	44	42	0	---	0	0	---	64.4	62.1	62.1	30.154	0	0	0	0	84.1	33	51.9	83	6.39	0.0726	22	1	95.7	1
9/24/2012	11:20 AM	64.3	64.4	64.3	44	41.9	0	---	0	0	---	64.3	62	62	30.154	0	0	0	0	84.1	32	51.1	82.8	6.27	0.0726	22	1	95.7	1
9/24/2012	11:21 AM	64.3	64.3	64.2	44	41.9	0	---	0	0	---	64.3	62	62	30.153	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:22 AM	64.4	64.4	64.3	44	42	0	---	0	0	---	64.4	62.1	62.1	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:23 AM	64.5	64.5	64.4	44	42.1	0	---	0	0	---	64.5	62.2	62.2	30.153	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:24 AM	64.6	64.6	64.5	44	42.2	0	---	0	0	---	64.6	62.3	62.3	30.155	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:25 AM	64.6	64.6	64.6	43	41.6	0	---	0	0	---	64.6	62.2	62.2	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	24	1	100	1
9/24/2012	11:26 AM	64.6	64.6	64.6	44	42.2	0	---	0	0	---	64.6	62.3	62.3	30.152	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:27 AM	64.7	64.7	64.6	45	42.9	0	---	0	0	---	64.7	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:28 AM	64.8	64.8	64.7	43	41.8	0	---	0	0	---	64.8	62.4	62.4	30.153	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/24/2012	11:29 AM	65	65	64.9	41	40.7	0	---	0	0	---	65	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:30 AM	65.1	65.1	65	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:31 AM	65.1	65.1	65.1	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.152	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:32 AM	65	65	65	40	40.1	0	---	0	0	---	65	62.4	62.4	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:33 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.151	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/24/2012	11:34 AM	65	65.1	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.153	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:35 AM	65	65	65	42	41.3	0	---	0	0	---	65	62.6	62.6	30.154	0	0	0	0	83.9	32	50.9	82.6	6.27	0.0727	23	1	100	1
9/24/2012	11:36 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.154	0	0	0	0	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/24/2012	11:37 AM	64.9	65	64.9	40	40	0	---	0	0	---	64.9	62.3	62.3	30.153	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	22	1	95.7	1
9/24/2012	11:38 AM	64.9	64.9	64.9	39	39.3	0	---	0	0	---	64.9	62.2	62.2	30.153	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	24	1	100	1
9/24/2012	11:39 AM	64.9	64.9	64.8	40	40	0	---	0	0	---	64.9	62.3	62.3	30.154	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	22	1	95.7	1
9/24/2012	11:40 AM	65	65	64.9	39	39.4	0	---	0	0	---	65	62.3	62.3	30.154	0	0	0	0	83.7	32	50.7	82.3	6.28	0.0727	24	1	100	1
9/24/2012	11:41 AM	65	65	65	41	40.7	0	---	0	0	---	65	62.5	62.5	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:42 AM	65.1	65.1	65	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:43 AM	65.1	65.2	65.1	40	40.2	0	---	0	0	---	65.1	62.5	62.5	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:44 AM	65.2	65.2	65.2	39	39.6	0	---	0	0	---	65.2	62.5	62.5	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:45 AM	65.2	65.2	65.2	37	38.3	0	---	0	0	---	65.2	62.3	62.3	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:46 AM	65.2	65.2	65.2	38	38.9	0	---	0	0	---	65.2	62.4	62.4	30.154	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:47 AM	65.3	65.3	65.2	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:48 AM	65.3	65.3	65.3	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.152	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	22	1	95.7	1
9/24/2012	11:49 AM	65.4	65.4	65.4	39	39.8	0	---	0	0	---	65.4	62.7	62.7	30.156	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:50 AM	65.6	65.6	65.4	39	40	0	---	0	0	---	65.6	62.9	62.9	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:51 AM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.153	0	0	0	0	83.5	31	49.7	81.8	6.15	0.0728	23	1	100	1
9/24/2012	11:52 AM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.152	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:53 AM	65.6	65.6	65.6	39	40	0	---	0	0	---	65.6	62.9	62.9	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:54 AM	65.6	65.6	65.6	39	40	0	---	0	0	---	65.6	62.9	62.9	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:55 AM	65.6	65.6	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.153	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:56 AM	65.6	65.7	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.151	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:57 AM	65.6	65.6	65.6	40	40.6	0	---	0	0	---	65.6	63	63	30.155	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	11:58 AM	65.7	65.7	65.7	40	40.7	0	---	0	0	---	65.7	63.1	63.1	30.154	0	0	0	0	83.5	32	50.5	82	6.28	0.0727	23	1	100	1
9/24/2012	11:59 AM	65.8	65.8	65.7	39	40.1	0	---	0	0	---	65.8	63.1	63.1	30.157	0	0	0	0.001	83.5	32	50.5	82	6.28	0.0727	24	1	100	1
9/24/2012	12:00 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.156	0	0	0	0.001	83.5	31	49.7	81.8	6.15	0.0728	23	1	100	1
9/24/2012	12:01 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.157	0	0	0	0.001	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:02 PM	65.8	65.8	65.8	38	39.5	0	---	0	0	---	65.8	63	63	30.155	0	0	0	0.001	83.3	32	50.4	81.7	6.28	0.0728	24	1	100	1
9/24/2012	12:03 PM	65.7	65.8	65.7	38	39.4	0	---	0	0	---	65.7	62.9	62.9	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:04 PM	65.7	65.7	65.7	39	40.1	0	---	0	0	---	65.7	63	63	30.155	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	24	1	100	1
9/24/2012	12:05 PM	65.6	65.6	65.6	38	39.3	0	---	0	0	---	65.6	62.8	62.8	30.152	0	0	0	0	83.3	31	49.5	81.6	6.15	0.0728	23	1	100	1
9/24/2012	12:06 PM	65.5	65.6	65.5	39	39.9	0	---	0	0	---	65.5	62.8	62.8	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	24	1	100	1
9/24/2012	12:07 PM	65.3	65.4	65.3	39	39.7	0	---	0	0	---	65.3	62.6	62.6	30.152	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:08 PM	65.2	65.3	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.155	0	0	0	0	83.1	31	49.3	81.3	6.15	0.0728	23	1	100	1
9/24/2012	12:09 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.153	0	0	0	0	83.1	30	48.5	81.1	6.05	0.0728	24	1	100	1
9/24/2012	12:10 PM	65.2	65.2	65.2	40	40.3	0	---	0	0	---	65.2	62.6	62.6	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:11 PM	65.2	65.2	65.2	41	40.9	0	---	0	0	---	65.2	62.7	62.7	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	24	1	100	1
9/24/2012	12:12 PM	65.3	65.3	65.2	41	41	0	---	0	0	---	65.3	62.8	62.8	30.152	0	0	0	0	82.9	31	49.2	81.1	6.15	0.0728	23	1	100	1
9/24/2012	12:13 PM	65.4	65.4	65.3	41	41.1	0	---	0	0	---	65.4	62.9	62.9	30.152	0	0	0	0	82.

Meteorological Data
Equity IRM

9/24/2012	1:31 PM	66.9	67	66.9	40	41.8	0	---	0	0	---	66.9	64.4	64.4	30.125	0	0	0	0.001	81.6	36	52.1	80.3	6.89	0.0729	24	1	100	1
9/24/2012	1:32 PM	66.8	66.9	66.8	40	41.7	0	---	0	0	---	66.8	64.3	64.3	30.127	0	0	0	0.001	81.6	36	52.1	80.3	6.89	0.0729	23	1	100	1
9/24/2012	1:33 PM	66.6	66.8	66.6	39	40.9	0	---	0	0	---	66.6	63.9	63.9	30.128	0	0	0	0.001	81.4	30	47	79.4	6.05	0.0731	24	1	100	1
9/24/2012	1:34 PM	66.5	66.6	66.5	40	41.4	0	---	0	0	---	66.5	64	64	30.125	0	0	0	0.001	81	32	48.4	79.2	6.33	0.0731	23	1	100	1
9/24/2012	1:35 PM	66.3	66.5	66.3	39	40.6	0	---	0	0	---	66.3	63.6	63.6	30.126	0	0	0	0.001	81	32	48.4	79.2	6.33	0.0731	23	1	100	1
9/24/2012	1:36 PM	66.1	66.2	66.1	39	40.4	0	---	0	0	---	66.1	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	24	1	100	1
9/24/2012	1:37 PM	66	66.1	66	40	41	0	---	0	0	---	66	63.4	63.4	30.127	0	0	0	0.001	81.2	38	53.2	80.1	7.25	0.0729	23	1	100	1
9/24/2012	1:38 PM	65.9	66	65.9	40	40.9	0	---	0	0	---	65.9	63.3	63.3	30.126	0	0	0	0.001	81	33	49.2	79.3	6.51	0.073	24	1	100	1
9/24/2012	1:39 PM	66	66	65.9	39	40.3	0	---	0	0	---	66	63.3	63.3	30.124	0	0	0	0.001	81.2	30	46.8	79.2	6.05	0.0731	23	1	100	1
9/24/2012	1:40 PM	66	66	66	40	41	0	---	0	0	---	66	63.4	63.4	30.122	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	24	1	100	1
9/24/2012	1:41 PM	66.1	66.1	66	40	41.1	0	---	0	0	---	66.1	63.5	63.5	30.124	0	0	0	0.001	81.4	31	47.9	79.5	6.15	0.073	23	1	100	1
9/24/2012	1:42 PM	66.2	66.2	66.1	40	41.2	0	---	0	0	---	66.2	63.6	63.6	30.122	0	0	0	0.001	81.2	31	47.7	79.3	6.15	0.0731	23	1	100	1
9/24/2012	1:43 PM	66.5	66.5	66.3	40	41.4	0	---	0	0	---	66.5	64	64	30.123	0	0	0	0.001	81	30	46.6	79	6.05	0.0731	24	1	100	1
9/24/2012	1:44 PM	66.7	66.7	66.5	39	40.9	0	---	0	0	---	66.7	64.1	64.1	30.124	0	0	0	0.001	80.8	30	46.5	78.8	6.05	0.0731	23	1	100	1
9/24/2012	1:45 PM	66.8	66.8	66.7	39	41	0	---	0	0	---	66.8	64.2	64.2	30.124	0	0	0	0.001	80.6	31	47.2	78.7	6.15	0.0732	24	1	100	1
9/24/2012	1:46 PM	67	67	66.9	39	41.2	0	---	0	0	---	67	64.4	64.4	30.123	0	0	0	0.001	80.5	30	46.2	78.5	6.05	0.0732	23	1	100	1
9/24/2012	1:47 PM	67.1	67.1	67	39	41.3	0	---	0	0	---	67.1	64.5	64.5	30.124	0	0	0	0.001	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	1:48 PM	67.2	67.2	67.2	40	42	0	---	0	0	---	67.2	64.7	64.7	30.125	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	24	1	100	1
9/24/2012	1:49 PM	67.3	67.3	67.3	39	41.5	0	---	0	0	---	67.3	64.7	64.7	30.125	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:50 PM	67.4	67.4	67.3	37	40.2	0	---	0	0	---	67.4	64.6	64.6	30.124	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	24	1	100	1
9/24/2012	1:51 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.123	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:52 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.123	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	24	1	100	1
9/24/2012	1:53 PM	67.6	67.6	67.5	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.123	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0733	23	1	100	1
9/24/2012	1:54 PM	67.6	67.6	67.6	39	41.7	0	---	0	0	---	67.6	65	65	30.122	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	23	1	100	1
9/24/2012	1:55 PM	67.7	67.7	67.6	39	41.8	0	---	0	0	---	67.7	65.1	65.1	30.119	0	0	0	0.002	80.1	31	46.7	78.2	6.15	0.0732	24	1	100	1
9/24/2012	1:56 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.12	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	1:57 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.119	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	24	1	100	1
9/24/2012	1:58 PM	67.8	67.8	67.8	37	40.6	0	---	0	0	---	67.8	65	65	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	1:59 PM	67.7	67.8	67.7	38	41.2	0	---	0	0	---	67.7	65	65	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	22	1	95.7	1
9/24/2012	2:00 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:01 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:02 PM	67.7	67.8	67.7	38	41.2	0	---	0	0	---	67.7	65	65	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:03 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:04 PM	67.8	67.8	67.7	38	41.3	0	---	0	0	---	67.8	65.1	65.1	30.117	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:05 PM	67.9	67.9	67.9	38	41.3	0	---	0	0	---	67.9	65.3	65.3	30.116	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	23	1	100	1
9/24/2012	2:06 PM	68	68	67.9	38	41.4	0	---	0	0	---	68	65.4	65.4	30.116	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	22	1	95.7	1
9/24/2012	2:07 PM	68.2	68.2	68	38	41.6	0	---	0	0	---	68.2	65.6	65.6	30.117	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	24	1	100	1
9/24/2012	2:08 PM	68.2	68.2	68.2	38	41.6	0	---	0	0	---	68.2	65.6	65.6	30.115	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	22	1	95.7	1
9/24/2012	2:09 PM	68.3	68.3	68.2	39	42.4	0	---	0	0	---	68.3	65.8	65.8	30.117	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	23	1	100	1
9/24/2012	2:10 PM	68.2	68.3	68.2	39	42.3	0	---	0	0	---	68.2	65.7	65.7	30.117	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0732	23	1	100	1
9/24/2012	2:11 PM	68.1	68.2	68.1	39	42.2	0	---	0	0	---	68.1	65.6	65.6	30.118	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0732	22	1	95.7	1
9/24/2012	2:12 PM	68	68.1	68	38	41.4	0	---	0	0	---	68	65.4	65.4	30.116	0	0	0	0.002	80.5	31	47.1	78.6	6.15	0.0731	24	1	100	1
9/24/2012	2:13 PM	67.9	67.9	67.9	37	40.7	0	---	0	0	---	67.9	65.1	65.1	30.117	0	0	0	0.002	80.3	31	46.9	78.4	6.15	0.0732	23	1	100	1
9/24/2012	2:14 PM	67.7	67.8	67.7	37	40.5	0	---	0	0	---	67.7	64.9	64.9	30.118	0	0	0	0.002	80.3	30	46	78.3	6.05	0.0732	24	1	100	1
9/24/2012	2:15 PM	67.6	67.7	67.6	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.117	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:16 PM	67.6	67.6	67.6	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.119	0	0	0	0.002	80.1	30	45.9	78.1	6.05	0.0732	23	1	100	1
9/24/2012	2:17 PM	67.5	67.6	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.118	0	0	0	0.002	79.9	30	45.7	77.9	6.05	0.0733	24	1	100	1
9/24/2012	2:18 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.7	30	45.5	77.8	6.05	0.0733	23	1	100	1
9/24/2012	2:19 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.119	0	0	0	0.002	79.7	30	45.5	77.8	6.05	0.0733	24	1	100	1
9/24/2012	2:20 PM	67.5	67.5	67.4	37	40.3	0	---	0	0	---	67.5	64.7	64.7	30.117	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:21 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	24	1	100	1
9/24/2012	2:22 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.115	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:23 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.117	0	0	0	0.002	79.5	30	45.3	77.6	6.05	0.0733	23	1	100	1
9/24/2012	2:24 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.117	0	0	0	0.002	79.3	30	45.2	77.4	6.05	0.0734	24	1	100	1
9/24/2012	2:25 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.116	0	0	0	0.002	79.3	31	46	77.6	6.16	0.0733	23	1	100	1
9/24/2012	2:26 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.114	0	0	0	0.002	79.3	30	45.2	77.4	6.05	0.0734	23	1	100	1
9/24/2012	2:27 PM	67.5	67.5	67.5	38	41	0	---	0	0	---	67.5	64.8	64.8	30.116	0	0	0	0.002	79.2	31	45.9	77.5	6.17	0.0734	23	1	100	1
9/24/2012	2:28 PM	67.4	67.5	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.115	0	0	0	0.002	79.2	31	45.9	77.5	6.17	0.0734	23	1	100	1
9/24/2012	2:29 PM	67.3	67.4	67.3	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.114	0	0	0	0.002	79.2	30	45.1	77.4	6.05	0.0734	24	1	100	1
9/24/2012	2:30 PM	67.2	67.3	67.2	39	41.4	0	---	0	0	---	67.2	64.6	64.6	30.115	0	0	0	0.002	79	30	44.9	77.2	6.05	0.0734	22	1	95.7	1
9/24/2012	2:31 PM	67.3	67.3	67.3	38	40.8	0	---	0	0	---	67.3	64.6	64.6	30.116	0	0	0	0.002	78.8	31	45.6	77.1	6.17	0.0734	24	1	100	1
9/24/2012	2:32 PM	67.4	67.4	67.3	40	42.2	0	---	0	0	---	67.4	64.9	64.9	30.114	0	0	0	0.002	78.8	31	45.6	77.1	6.17	0.0734	23	1	100	1
9/24/2012	2:33 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.115	0	0	0	0.002	78.6	30	44.6	76.9	6.05	0.0735	24	1	100	1
9/24/2012	2:34 PM	67.4	67.4	67.4	38	40.9	0	---	0	0	---	67.4	64.7	64.7	30.117	0	0	0	0.002	78.6	31	45.4	77	6.18	0.0735	23	1	100	1
9/24/2012	2:35 PM	67.5	67.5	67.4	38	41	0	---	0	0	---	67.5	64.8	64.8	30.113	0	0	0	0.002	78.4	30	44.4	76.7	6.05	0.0735	23	1	100	1
9/24/2012	2:36 PM	67.6	67.6	67.5	38	41.1	0	---	0	0	---	67.6	64.9	64.9	30.112	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	24	1	100	1
9/24/2012	2:37 PM	67.7	67.7	67.6	38	41.2	0	---	0	0	---	67.7	65	65	30.114	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	23	1	100	1
9/24/2012	2:38 PM	67.9	67.9	67.7	37	40.7	0	---	0	0	---	67.9	65.1	65.1	30.115	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	24	1	100	1
9/24/2012	2:39 PM	68	68	67.9	37	40.7	0	---	0	0	---	68	65.2	65.2	30.113	0	0	0	0.002	78.2	31	45.1	76.6	6.19	0.0735	23	1	100	1
9/24/2012	2:40 PM	68.2	68.2	68.1	36	40.2	0	---	0	0	---	68.2	65.3	65.3	30.113	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0735	23	1	100	1
9/24/2012	2:41 PM	68.2	68.2	68.2	36	40.2	0	---	0	0	---	68.2	65.3	65.3	30.114	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0735	24	1	100	1
9/24/2012	2:42 PM	68.1	68.2	68.1	35	39.4	0	---	0	0	---	68.1	65.1	65.1	30.117	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	23	1	100	1
9/24/2012	2:43 PM	68	68.1	68	36	40	0	---	0	0	---	68	65.1	65.1	30.115	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	24	1	100	1
9/24/2012	2:44 PM	67.7	67.9	67.7	36	39.8	0	---	0	0	---	67.7	64.8	64.8	30.115	0	0	0	0.002	78	31	44.9	76.5	6.19	0.0736	23	1	100	1
9/24/2012	2:45 PM	67.4	67.7	67.4	35	38.8	0	---	0	0	---	67.4	64.3	64.3	30.114	0	0	0	0.002	77.9	30	44	76.3	6.05	0.0736	24	1	100	1
9/24/2012	2:46 PM	67.2	67.4	67.2	35	38.6	0	---	0	0	---	67.2	64.1	64.1	30.114	0	0	0	0.002	77.9	31	44.8	76.4	6.19	0.0736	23	1	100	1
9/24/2012	2:47 PM	67	67.2	67	35	38.4	0	---	0	0	---	67	63.9	63.9	30.114	0	0	0	0.001	77.7	30	43.8	76.2	6.05	0.0736	22	1	95.7	1
9/24/2012	2:48 PM	66.9	67	66.9	36	39.1	0	---	0	0	---	66.9	63.9	63.9	30.111	0	0	0	0.001	77.7	30	43.8	76.2	6.05	0.0736	24	1	100	1
9/24/2012	2:49 PM	66.8	66.9	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.111	0	0	0	0.001	77.5	30	43.6	76.1	6.05	0.0736	22	1	95.7	1
9/24/2012	2:50 PM	66.8	66.8	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.109	0	0	0	0.001	77.3	30	43.4	76	6.05	0.0737	24	1	100	1
9/24/2012	2:51 PM	66.8	66.8	66.8	39	41	0	---	0	0	---	66.8	64.2	64.2	30.111	0	0	0	0.001	77.2	31	44.2	76	6.21	0.0737	22	1	95.7	1
9/24/2012	2:52 PM	66.8	66.8	66.8	38	40.4	0	---	0	0	---	66.8	64	64	30.11	0	0	0	0.001	77	31	44	75.8	6.21	0.0737	22	1	95.7	1
9/24/2012	2:53 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.109	0	0	0	0.001	76.8	31	43.9	75.6	6.21	0.0737	23	1	100	1
9/24/2012	2:54 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.111	0	0	0	0.001	76.6	31	43.7	75.3	6.22	0.0738	22	1	95.7	1
9/24/2012	2:55 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.11	0	0	0	0.001	76.4	31	43.5	75.1	6.22	0.0738	24	1	100	1
9/24/2012	2:56 PM	66.9	66.9	66.8	37	39.8	0	---	0	0	---	66.9	64	64	30.111	0	0	0	0.001	76.3	31	43.4	74.9	6.22	0.0738	22	1	95.7	1
9/24/2012	2:57 PM	66.8	66.9	66.8	36	39	0	---	0	0	---	66.8	63.8	63.8	30.109	0	0	0	0.001	76.1	31	43.3	74.7	6.23	0.0738	24	1	100	1
9/24/2012	2:58 PM	66.8	66.8	66.8	37	39.7	0	---	0	0	---	66.8	63.9	63.9	30.11	0	0	0	0.001	75.9	31	43.1	74.4	6.23	0.0739	22	1	95.7	1
9/24/2012	2:59 PM	66.9	66.9	66.8	36	39.1	0	---	0	0	---	66.9	63.9	63.9	30.107	0	0	0	0.001	75.9	31	43.1	74.4	6.23	0.0739	22	1	95.7	1
9/24/2012	3:00 PM	67	67	66.9	36	39.1	0	---	0	0	---	67	64	64	30.107	0	0	0	0.001	75.7	31	42.9	74.2	6.24	0.0739	23	1	100	1
9/24/2012	3:01 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.107	0	0	0	0.001	75.7	31	42.9	74.2	6.24	0.0739	23	1	100	1
9/24/2012	3:02 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.106	0	0	0	0.001	75.6	31	42.8	74.1	6.24	0.0739	24	1	100	1
9/24/2012	3:03 PM	67.2	67.2	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.105	0	0	0	0.002	75.6	31	42.8	74.1	6.24	0.0739	23	1	100	1
9/24/2012	3:04 PM	67.3	67.3	67.2	37	40.1	0	---	0	0	---	67.3	64.5	64.5	30.105	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:05 PM	67.2	67.3	67.2	36	39.3	0	---	0	0	---	67.2	64.2	64.2	30.104	0	0	0	0.002	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:06 PM	67.1	67.2	67.1	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.104	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	23	1	100	1
9/24/2012	3:07 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.101	0	0	0	0.001	75.4	31	42.7	73.9	6.24	0.0739	24	1	100	1
9/24/2012	3:08 PM	67	67	67	36	39.1	0	---	0	0	---	67	64	64	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:09 PM	67.1	67.1	67	36	39.2	0	---	0	0	---	67.1	64.1	64.1	30.102	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	24	1	100	1
9/24/2012	3:10 PM	67.1	67.1	67.1	35	38.5	0	---	0	0	---	67.1	64	64	30.1	0	0	0	0.001	75.2	31	42.5	73.6	6.25	0.074	23	1	100	1
9/24/2012	3:11 PM	67.3	67.3	67.2	35	38.7	0	---	0	0	---	67.3	64.2	64.2	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	23	1	100	1
9/24/2012	3:12 PM	67.4	67.4	67.3	35	38.8	0	---	0	0	---	67.4	64.3	64.3	30.1	0	0	0	0.002	75	31	42.3	73.4	6.25	0.074	24	1	100	1
9/24/2012	3:13

Meteorological Data
Equity IRM

9/24/2012	4:31 PM	66.9	66.9	66.8	36	39.1	3	NE	0.05	4	NE	66.9	63.9	63.9	30.098	0	0	0	0.001	72.8	35	43.5	70.9	6.99	0.0743	22	1	95.7	1
9/24/2012	4:32 PM	67	67	66.9	36	39.1	3	ENE	0.05	5	E	67	64	64	30.097	0	0	0	0.001	72.8	35	43.5	70.9	6.99	0.0743	23	1	100	1
9/24/2012	4:33 PM	67.1	67.1	67	35	38.5	2	E	0.03	5	E	67.1	64	64	30.097	0	0	0	0.001	72.6	35	43.4	70.6	7	0.0743	22	1	95.7	1
9/24/2012	4:34 PM	67.2	67.2	67.1	36	39.3	3	E	0.05	5	W	67.2	64.2	64.2	30.095	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	24	1	100	1
9/24/2012	4:35 PM	67.3	67.3	67.2	37	40.1	3	WSW	0.05	5	NNE	67.3	64.5	64.5	30.095	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	22	1	95.7	1
9/24/2012	4:36 PM	67.3	67.3	67.3	38	40.8	2	WSW	0.03	4	WSW	67.3	64.6	64.6	30.097	0	0	0	0.002	72.6	35	43.4	70.6	7	0.0743	23	1	100	1
9/24/2012	4:37 PM	67.3	67.3	67.3	38	40.8	2	W	0.03	7	ENE	67.3	64.6	64.6	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	23	1	100	1
9/24/2012	4:38 PM	67.3	67.3	67.3	36	39.4	3	N	0.05	5	N	67.3	64.4	64.4	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:39 PM	67.3	67.3	67.3	38	40.8	3	NE	0.05	7	NW	67.3	64.6	64.6	30.095	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:40 PM	67.4	67.4	67.3	36	39.5	5	N	0.08	10	NNW	67.4	64.5	64.5	30.098	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	22	1	95.7	1
9/24/2012	4:41 PM	67.5	67.5	67.4	37	40.3	2	N	0.03	4	N	67.5	64.7	64.7	30.096	0	0	0	0.002	72.4	35	43.2	70.2	7	0.0743	24	1	100	1
9/24/2012	4:42 PM	67.6	67.6	67.5	37	40.4	2	NNW	0.03	4	NNW	67.6	64.8	64.8	30.095	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	22	1	95.7	1
9/24/2012	4:43 PM	67.7	67.7	67.6	36	39.8	5	WNW	0.08	7	WNW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	24	1	100	1
9/24/2012	4:44 PM	67.7	67.7	67.7	36	39.8	4	WNW	0.07	7	NW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:45 PM	67.7	67.7	67.7	36	39.8	4	NNW	0.07	6	NW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:46 PM	67.8	67.8	67.7	35	39.1	3	NNW	0.05	7	NNW	67.8	64.8	64.8	30.094	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	24	1	100	1
9/24/2012	4:47 PM	67.9	67.9	67.9	36	39.9	2	NNW	0.03	4	N	67.9	65	65	30.093	0	0	0	0.002	72.3	35	43.1	70.1	7	0.0743	23	1	100	1
9/24/2012	4:48 PM	67.8	67.9	67.8	35	39.1	3	ENE	0.05	7	N	67.8	64.8	64.8	30.093	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	24	1	100	1
9/24/2012	4:49 PM	67.7	67.8	67.7	36	39.8	5	NW	0.08	7	NNW	67.7	64.8	64.8	30.094	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	23	1	100	1
9/24/2012	4:50 PM	67.6	67.7	67.6	35	39	3	NW	0.05	6	NNE	67.6	64.6	64.6	30.096	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	23	1	100	1
9/24/2012	4:51 PM	67.5	67.6	67.5	36	39.6	1	WNW	0.02	4	NNE	67.5	64.6	64.6	30.096	0	0	0	0.002	72.1	35	42.9	69.8	7.01	0.0744	24	1	100	1
9/24/2012	4:52 PM	67.3	67.4	67.3	37	40.1	2	WNW	0.03	3	WNW	67.3	64.5	64.5	30.096	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	23	1	100	1
9/24/2012	4:53 PM	67.3	67.4	67.3	38	40.8	1	WNW	0.02	7	NW	67.3	64.6	64.6	30.094	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	24	1	100	1
9/24/2012	4:54 PM	67.2	67.3	67.2	38	40.7	4	N	0.07	6	W	67.2	64.5	64.5	30.094	0	0	0	0.002	71.9	35	42.8	69.5	7.01	0.0744	23	1	100	1
9/24/2012	4:55 PM	67.1	67.2	67.1	37	39.9	3	N	0.05	5	N	67.1	64.3	64.3	30.095	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	24	1	100	1
9/24/2012	4:56 PM	67	67.1	67	37	39.9	2	W	0.03	4	NNW	67	64.1	64.1	30.094	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	23	1	100	1
9/24/2012	4:57 PM	66.9	67	66.9	37	39.8	3	WNW	0.05	5	WNW	66.9	64	64	30.094	0	0	0	0.001	71.8	35	42.7	69.3	7.01	0.0744	23	1	100	1
9/24/2012	4:58 PM	66.8	66.9	66.8	37	39.7	3	WNW	0.05	6	W	66.8	63.9	63.9	30.093	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	24	1	100	1
9/24/2012	4:59 PM	66.8	66.8	66.8	37	39.7	3	NW	0.05	6	W	66.8	63.9	63.9	30.095	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	23	1	100	1
9/24/2012	5:00 PM	66.7	66.8	66.7	37	39.6	4	W	0.07	7	WSW	66.7	63.8	63.8	30.097	0	0	0	0.001	71.6	36	43.2	69.1	7.19	0.0744	23	1	100	1
9/24/2012	5:01 PM	66.8	66.8	66.8	37	39.7	3	NNW	0.05	8	NNW	66.8	63.9	63.9	30.096	0	0	0	0.001	71.4	36	43	68.8	7.19	0.0745	23	1	100	1
9/24/2012	5:02 PM	66.9	66.9	66.8	37	39.8	2	NNW	0.03	4	NNW	66.9	64	64	30.097	0	0	0	0.001	71.4	36	43	68.8	7.19	0.0745	23	1	100	1
9/24/2012	5:03 PM	67	67	66.9	36	39.1	4	WSW	0.07	6	SW	67	64	64	30.096	0	0	0	0.001	71.2	36	42.9	68.6	7.2	0.0745	24	1	100	1
9/24/2012	5:04 PM	67	67	67	37	39.9	2	SSW	0.03	3	SSW	67	64.1	64.1	30.098	0	0	0	0.001	71.2	36	42.9	68.6	7.2	0.0745	23	1	100	1
9/24/2012	5:05 PM	67	67	67	36	39.1	1	SSW	0.02	2	SSW	67	64	64	30.098	0	0	0	0.001	71.1	36	42.8	68.4	7.21	0.0745	24	1	100	1
9/24/2012	5:06 PM	67.1	67.1	67	36	39.2	1	WNW	0.02	3	WNW	67.1	64.1	64.1	30.097	0	0	0	0.001	71.1	36	42.8	68.4	7.21	0.0745	23	1	100	1
9/24/2012	5:07 PM	67.3	67.3	67.1	36	39.4	2	WNW	0.03	4	WNW	67.3	64.4	64.4	30.099	0	0	0	0.002	71.1	36	42.8	68.4	7.21	0.0745	23	1	100	1
9/24/2012	5:08 PM	67.4	67.4	67.3	36	39.5	1	WNW	0.02	3	ESE	67.4	64.5	64.5	30.097	0	0	0	0.002	70.9	36	42.6	68.2	7.21	0.0746	24	1	100	1
9/24/2012	5:09 PM	67.7	67.7	67.5	36	39.8	3	N	0.05	5	N	67.7	64.8	64.8	30.098	0	0	0	0.002	70.9	36	42.6	68.2	7.21	0.0746	23	1	100	1
9/24/2012	5:10 PM	67.9	67.9	67.7	35	39.2	2	N	0.03	3	N	67.9	64.9	64.9	30.099	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	24	1	100	1
9/24/2012	5:11 PM	67.9	67.9	67.9	35	39.2	2	ENE	0.03	3	ESE	67.9	64.9	64.9	30.098	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	23	1	100	1
9/24/2012	5:12 PM	67.9	67.9	67.9	35	39.2	3	NNE	0.05	4	NNE	67.9	64.9	64.9	30.098	0	0	0	0.002	70.7	36	42.4	67.9	7.22	0.0746	24	1	100	1
9/24/2012	5:13 PM	67.9	67.9	67.9	35	39.2	4	NNE	0.07	7	N	67.9	64.9	64.9	30.098	0	0	0	0.002	70.6	36	42.3	67.8	7.23	0.0746	23	1	100	1
9/24/2012	5:14 PM	67.9	67.9	67.9	35	39.2	5	N	0.08	11	NNE	67.9	64.9	64.9	30.101	0	0	0	0.002	70.6	36	42.3	67.8	7.23	0.0746	23	1	100	1
9/24/2012	5:15 PM	67.9	67.9	67.9	35	39.2	4	NE	0.07	7	ENE	67.9	64.9	64.9	30.1	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	24	1	100	1
9/24/2012	5:16 PM	67.9	67.9	67.9	36	39.9	4	N	0.07	7	NNW	67.9	65	65	30.099	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	23	1	100	1
9/24/2012	5:17 PM	67.9	67.9	67.9	36	39.9	3	N	0.05	8	N	67.9	65	65	30.1	0	0	0	0.002	70.4	36	42.2	67.5	7.23	0.0746	23	1	100	1
9/24/2012	5:18 PM	68	68	67.9	36	40	1	NNE	0.02	4	NNE	68	65.1	65.1	30.101	0	0	0	0.002	70.2	36	42	67.2	7.24	0.0747	23	1	100	1
9/24/2012	5:19 PM	68	68	67.9	36	40	1	ENE	0.02	3	ENE	68	65.1	65.1	30.099	0	0	0	0.002	70.2	36	42	67.2	7.24	0.0747	23	1	100	1
9/24/2012	5:20 PM	68	68	68	36	40	3	ENE	0.05	7	N	68	65.1	65.1	30.101	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	24	1	100	1
9/24/2012	5:21 PM	67.9	67.9	67.9	36	39.9	2	ENE	0.03	4	NE	67.9	65	65	30.099	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	22	1	95.7	1
9/24/2012	5:22 PM	67.8	67.9	67.8	35	39.1	2	N	0.03	4	NNE	67.8	64.8	64.8	30.098	0	0	0	0.002	70.1	36	41.9	67.1	7.25	0.0747	24	1	100	1
9/24/2012	5:23 PM	67.7	67.8	67.7	35	39	2	N	0.03	4	N	67.7	64.7	64.7	30.098	0	0	0	0.002	69.9	36	41.7	66.9	7.25	0.0747	22	1	95.7	1
9/24/2012	5:24 PM	67.5	67.7	67.5	36	39.6	3	E	0.05	6	E	67.5	64.6	64.6	30.098	0	0	0	0.002	69.9	37	42.4	67	7.35	0.0747	24	1	100	1
9/24/2012	5:25 PM	67.3	67.5	67.3	35	38.7	3	E	0.05	5	E	67.3	64.2	64.2	30.099	0	0	0	0.002	69.7	37	42.3	66.8	7.35	0.0747	22	1	95.7	1
9/24/2012	5:26 PM	67.1	67.3	67.1	35	38.5	3	ENE	0.05	5	ESE	67.1	64	64	30.098	0	0	0	0.001	69.7	37	42.3	66.8	7.35	0.0747	23	1	100	1
9/24/2012	5:27 PM	67	67.1	67	36	39.1	2	ENE	0.03	4	ENE	67	64	64	30.099	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0748	23	1	100	1
9/24/2012	5:28 PM	66.8	67	66.8	36	39	2	NNW	0.03	4	N	66.8	63.8	63.8	30.097	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0747	22	1	95.7	1
9/24/2012	5:29 PM	66.7	66.8	66.7	36	38.9	1	NNW	0.02	2	NNW	66.7	63.7	63.7	30.097	0	0	0	0.001	69.6	37	42.2	66.7	7.35	0.0747	24	1	100	1
9/24/2012	5:30 PM	66.6	66.7	66.6	37	39.5	0	NNW	0	2	NNW	66.6	63.7	63.7	30.095	0	0	0	0.001	69.4	37	42	66.6	7.35	0.0748	22	1	95.7	1
9/24/2012	5:31 PM	66.6	66.6	66.6	37	39.5	2	NNW	0.03	6	NW	66.6	63.7	63.7	30.094	0	0	0	0.001	69.4	37	42	66.6	7.35	0.0748	23	1	100	1
9/24/2012	5:32 PM	66.5	66.5	66.5	37	39.4	2	NNW	0.03	5	NNW	66.5	63.6	63.6	30.097	0	0	0	0.001	69.2	37	41.8	66.4	7.35	0.0748	23	1	100	1
9/24/2012	5:33 PM	66.4	66.5	66.4	37	39.3	2	NE	0.03	5	E	66.4	63.5	63.5	30.098	0	0	0	0.001	69.2	37	41.8	66.4	7.35	0.0748	23	1	100	1
9/24/2012	5:34 PM	66.5	66.5	66.4	38	40.1	2	ENE	0.03	4	NNW	66.5	63.7	63.7	30.1	0	0	0	0.001	69	37	41.6	66.2	7.35	0.0749	22	1	95.7	1
9/24/2012	5:35 PM	66.5	66.5	66.5	38	40.1	4	NE	0.07	7	NW	66.5	63.7	63.7	30.099	0	0	0	0.001	69	37	41.6	66.2	7.35	0.0749	23	1	100	1
9/24/2012	5:36 PM	66.5	66.5	66.5	38	40.1	3	NE	0.05	5	NW	66.5	63.7	63.7	30.1	0	0	0	0.001	68.9	37	41.5	66.1	7.35	0.0749	24	1	100	1
9/24/2012	5:37 PM	66.6	66.6	66.6	36	38.8	1	NNW	0.02	4	NNW	66.6	63.6	63.6	30.1	0	0	0	0.001	68.9	37	41.5	66.1	7.35	0.0749	23	1	100	1
9/24/2012	5:38 PM	66.7	66.7	66.6	37	39.6	3	NNW	0.05	4	NNW	66.7	63.8	63.8	30.1	0	0	0	0.001	68.7	37	41.4	65.9	7.35	0.0749	23	1	100	1
9/24/2012	5:39 PM	66.7	66.7	66.7	36	38.9	4	NNW	0.07	5	NNW	66.7	63.7	63.7	30.099	0	0	0	0.001	68.7	37	41.4	65.9	7.35	0.0749	24	1	100	1
9/24/2012	5:40 PM	66.6	66.7	66.6	36	38.8	2	N	0.03	4	N	66.6	63.6	63.6	30.099	0	0	0	0.001	68.5	37	41.2	65.7	7.35	0.0749	23	1	100	1
9/24/2012	5:41 PM	66.6	66.7	66.6	37	39.5	3	N	0.05	5	N	66.6	63.7	63.7	30.099	0	0	0	0.001	68.5	37	41.2	65.7	7.35	0.0749	23	1	100	1
9/24/2012	5:42 PM	66.6	66.6	66.6	35	38.1	2	N	0.03	4	N	66.6	63.5	63.5	30.1	0	0	0	0.001	68.4	37	41.1	65.6	7.35	0.075	23	1	100	1
9/24/2012	5:43 PM	66.6	66.6	66.6	36	38.8	2	N	0.03	3	N	66.6	63.6	63.6	30.1	0	0	0	0.001	68.4	37	41.1	65.6	7.35	0.075	23	1	100	1
9/24/2012	5:44 PM	66.7	66.7	66.6	37	39.6	1	N	0.02	3	N	66.7	63.8	63.8	30.103	0	0	0	0.001	68.2	37	40.9	65.4	7.35	0.075	24	1	100	1
9/24/2012	5:45 PM	66.8	66.8	66.7	37	39.7	1	N	0.02	4	NNW	66.8	63.9	63.9	30.101	0	0	0	0.001	68.2	38	41.6	65.6	7.55	0.075	23	1	100	1
9/24/2012	5:46 PM	66.8	66.8	66.8	36	39	4	W	0.07	7	NW	66.8	63.8	63.8	30.099	0	0	0	0.001	68	38	41.4	65.4	7.55	0.075	24	1	100	1
9/24/2012	5:47 PM	66.7	66.8	66.7	37	39.6	3	NW	0.05	5	NNW	66.7	63.8	63.8	30.1	0	0	0	0.001	68	38	41.4	65.4	7.55	0.075	23	1	100	1
9/24/2012	5:48 PM	66.7	66.8	66.7	37	39.6	0	NW	0	2	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.9	38	41.3	65.3	7.55	0.075	24	1	100	1
9/24/2012	5:49 PM	66.7	66.7	66.7	37	39.6	1	NW	0.02	2	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.7	38	41.2	65	7.55	0.075	23	1	100	1
9/24/2012	5:50 PM	66.7	66.8	66.7	37	39.6	0	NW	0	1	NW	66.7	63.8	63.8	30.1	0	0	0	0.001	67.7	38	41.2	65	7.55	0.075	23	1	100	1
9/24/2012	5:51 PM	66.8	66.8	66.7	37	39.7	1	NW	0.02	3	NNW	66.8	63.9	63.9	30.102	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	23	1	100	1
9/24/2012	5:52 PM	66.8	66.8	66.8	38	40.4	3	NNW	0.05	5	NNW	66.8	64	64	30.1	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	23	1	100	1
9/24/2012	5:53 PM	66.8	66.8	66.8	37	39.7	2	W	0.03	5	W	66.8	63.9	63.9	30.1	0	0	0	0.001	67.5	38	41	64.8	7.55	0.0751	22	1	95.7	1
9/24/2012	5:54 PM	66.8	66.8	66.8	37	39.7	3	ENE	0.05	5	ENE	66.8	63.9	63.9	30.1	0	0	0	0.001	67.4	38	40.9	64.7	7.55	0.0751	23	1	100	1
9/24/2012	5:55 PM	66.7	66.8	66.7	35	38.2	3	ENE	0.05	4	ENE	66.7	63.6	63.6	30.102	0	0	0	0.001	67.4	38	40.9	64.7	7.55	0.0751	23	1	100	1
9/24/2012	5:56 PM	66.6	66.7	66.6	36	38.8	3	ENE	0.05	6	NE	66.6	63.6	63.6	30.101	0	0	0	0.001	67.2	38	40.7	64.5	7.55	0.0751	24	1	100	1
9/24/2012	5:57 PM	66.5	66.7	66.5	35	38	6	N	0.1	10	NNW	66.5	63.4	63.4	30.1	0	0	0	0.001	67.2	38	40.7	64.5	7.55	0.0751	23	1	100	1
9/24/2012	5:58 PM	66.5	66.5	66.5	35	38	9	N	0.15	12	N	65.2	63.4	62.1	30.098	0	0	0	0.001	67	38	40.5	64.3	7.55	0.0752	24	1	100	1
9/24/2012	5:59 PM	66.4	66.5	66.4	36	38.6	3	N	0.05	12	N	66.4	63.4	63.4	30.101	0	0	0	0.001	67	38	40.5	64.3	7.55	0.0752	23	1	100	1
9/24/2012	6:00 PM	66.4	66.4	66.4	36	38.6	3	NNE	0.05	6	NNE	66.4	63.4	63.4	30.101	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	23	1	100	1
9/24/2012	6:01 PM	66.4	66.4	66.4	37	39.3	3	NNW	0.05	8	N	66.4	63.5	63.5	30.101	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	24	1	100	1
9/24/2012	6:02 PM	66.3	66.4	66.3	36	38.5	4	NNW	0.07	7	NW	66.3	63.3	63.3	30.103	0	0	0	0.001	66.9	38	40.5	64.2	7.55	0.0752	23	1	100	1
9/24/2012	6:03 PM	66.3	66.3	66.3	37	39.2	2	ENE	0.03	4	NNW	66.3	63.4	63.4	30.102	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	24	1	100	1
9/24/2012	6:04 PM	66.2	66.3	66.2	37	39.1	4	NW	0.07	6	N	66.2	63.3	63.3	30.1	0	0	0	0.001	66.7	38	40.3	63.9	7.55	0.0752	23	1	100	1
9/24/2012	6:05 PM	66.2	66.3	66.2	37	39.1	4	NNE	0.07	7	NW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	24	1	100	1
9/24/2012	6:06 PM	66.2	66.2	66.2	37	39.1	3	N	0.05	8	NNW	66.2	63.3	63.3	30.101	0	0	0	0.001	66.6	38	40.2	63.8	7.55	0.0752	23	1	100	1
9/24/2012	6:07 PM	66.2	66.2	66.2	36	38.4	2	NE	0.03	5	NNW	66.2	63.2	63.2	30.103	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:08 PM	66.2	66.2	66.2	36	38.4	4	N	0.07	9	NNW	66.2	63.2	63.2	30.101	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0752	24	1	100	1
9/24/2012	6:09 PM	66.2	66.2	66.1	36	38.4	5	ENE	0.08	11	NW	66.2	63.2	63.2	30.102	0	0	0	0.001	66.4	39	40.7	63.7	7.72	0.0753	23	1	100	1
9/24/2012	6:10 PM	66.1	66.1	66.1	36	38.4	3	E	0.05	6	NNW	66.1	63.1	63.1	30.103	0	0	0	0.001	66.2	39	40.5	63.5	7.73	0.0753	24	1	100	1
9/24/2012	6:11 PM	66	66.1	66	36	38.3	3	N	0.05

Meteorological Data
Equity IRM

9/24/2012	7:31 PM	63.5	63.5	63.4	41	39.4	2	SSW	0.03	4	W	63.5	60.9	60.9	30.116	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	23	1	100	1
9/24/2012	7:32 PM	63.4	63.4	63.4	41	39.3	1	W	0.02	5	WNW	63.4	60.8	60.8	30.116	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	24	1	100	1
9/24/2012	7:33 PM	63.4	63.4	63.4	42	39.9	4	WNW	0.07	7	NNW	63.4	60.9	60.9	30.117	0	0	0.001	0	60.5	41	36.7	57.9	8.04	0.0762	23	1	100	1
9/24/2012	7:34 PM	63.4	63.4	63.4	40	38.6	2	NNW	0.03	5	NNW	63.4	60.7	60.7	30.117	0	0	0.001	0	60.3	41	36.5	57.7	8.04	0.0763	24	1	100	1
9/24/2012	7:35 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	2	NNW	63.4	60.8	60.8	30.117	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:36 PM	63.4	63.4	63.4	41	39.3	1	NNW	0.02	3	NNW	63.4	60.8	60.8	30.118	0	0	0.001	0	60.3	42	37.1	57.8	8.15	0.0763	23	1	100	1
9/24/2012	7:37 PM	63.3	63.4	63.3	41	39.2	1	NNW	0.02	2	NNW	63.3	60.7	60.7	30.119	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	24	1	100	1
9/24/2012	7:38 PM	63.3	63.4	63.3	42	39.8	0	NNW	0	2	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60.2	41	36.4	57.6	8.05	0.0763	23	1	100	1
9/24/2012	7:39 PM	63.3	63.3	63.3	42	39.8	1	NNW	0.02	3	NNW	63.3	60.8	60.8	30.119	0	0	0.001	0	60.2	42	37	57.7	8.15	0.0763	24	1	100	1
9/24/2012	7:40 PM	63.3	63.3	63.3	42	39.8	0	NNW	0	1	NNW	63.3	60.8	60.8	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:41 PM	63.3	63.3	63.3	43	40.4	1	NNW	0.02	2	NNW	63.3	60.9	60.9	30.12	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	23	1	100	1
9/24/2012	7:42 PM	63.2	63.3	63.2	43	40.3	1	NNW	0.02	4	NNW	63.2	60.8	60.8	30.121	0	0	0.001	0	60	42	36.8	57.5	8.15	0.0763	24	1	100	1
9/24/2012	7:43 PM	63.2	63.2	63.2	41	39.1	3	N	0.05	6	NW	63.2	60.6	60.6	30.121	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	23	1	100	1
9/24/2012	7:44 PM	63.1	63.2	63.1	42	39.6	1	N	0.02	2	N	63.1	60.6	60.6	30.122	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	24	1	100	1
9/24/2012	7:45 PM	63.1	63.2	63.1	42	39.6	0	N	0	2	N	63.1	60.6	60.6	30.122	0	0	0.001	0	59.9	42	36.7	57.4	8.15	0.0763	23	1	100	1
9/24/2012	7:46 PM	63.1	63.1	63.1	42	39.6	2	WNW	0.03	3	WNW	63.1	60.6	60.6	30.122	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	23	1	100	1
9/24/2012	7:47 PM	63.1	63.1	63.1	41	39	3	WSW	0.05	5	WSW	63.1	60.5	60.5	30.122	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	24	1	100	1
9/24/2012	7:48 PM	63.2	63.2	63.1	41	39.1	3	SW	0.05	4	WSW	63.2	60.6	60.6	30.123	0	0	0.001	0	59.7	42	36.6	57.2	8.15	0.0764	23	1	100	1
9/24/2012	7:49 PM	63.2	63.2	63.2	42	39.7	1	SW	0.02	3	SW	63.2	60.7	60.7	30.123	0	0	0.001	0	59.6	42	36.5	57.1	8.15	0.0764	23	1	100	1
9/24/2012	7:50 PM	63.3	63.3	63.2	43	40.4	2	SW	0.03	4	SW	63.3	60.9	60.9	30.123	0	0	0.001	0	59.6	42	36.5	57.1	8.15	0.0764	23	1	100	1
9/24/2012	7:51 PM	63.4	63.4	63.3	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.122	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	23	1	100	1
9/24/2012	7:52 PM	63.4	63.4	63.4	42	39.9	2	WSW	0.03	4	WSW	63.4	60.9	60.9	30.125	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	23	1	100	1
9/24/2012	7:53 PM	63.4	63.4	63.4	42	39.9	1	WSW	0.02	4	WSW	63.4	60.9	60.9	30.124	0	0	0.001	0	59.4	43	36.9	56.9	8.34	0.0764	22	1	95.7	1
9/24/2012	7:54 PM	63.4	63.4	63.4	42	39.9	4	WSW	0.07	6	WNW	63.4	60.9	60.9	30.12	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	24	1	100	1
9/24/2012	7:55 PM	63.4	63.4	63.4	41	39.3	3	WSW	0.05	5	WNW	63.4	60.8	60.8	30.121	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	22	1	95.7	1
9/24/2012	7:56 PM	63.4	63.4	63.4	42	39.9	4	SW	0.07	7	SW	63.4	60.9	60.9	30.122	0	0	0.001	0	59.3	43	36.8	56.8	8.34	0.0764	24	1	100	1
9/24/2012	7:57 PM	63.5	63.5	63.4	42	40	0	W	0	1	W	63.5	61	61	30.123	0	0	0.001	0	59.1	43	36.6	56.6	8.33	0.0765	23	1	100	1
9/24/2012	7:58 PM	63.4	63.5	63.4	43	40.5	3	SW	0.05	7	NNW	63.4	61	61	30.123	0	0	0.001	0	59.1	43	36.6	56.6	8.33	0.0765	23	1	100	1
9/24/2012	7:59 PM	63.5	63.5	63.4	42	40	4	WNW	0.07	6	WNW	63.5	61	61	30.124	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	24	1	100	1
9/24/2012	8:00 PM	63.5	63.5	63.5	43	40.6	1	WSW	0.02	4	WNW	63.5	61.1	61.1	30.124	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	23	1	100	1
9/24/2012	8:01 PM	63.5	63.5	63.5	43	40.6	2	WSW	0.03	5	WNW	63.5	61.1	61.1	30.123	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	23	1	100	1
9/24/2012	8:02 PM	63.5	63.5	63.5	42	40	4	W	0.07	6	WNW	63.5	61	61	30.122	0	0	0.001	0	59	43	36.5	56.5	8.33	0.0765	22	1	95.7	1
9/24/2012	8:03 PM	63.5	63.5	63.5	43	40.6	2	WNW	0.03	3	WNW	63.5	61.1	61.1	30.123	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	24	1	100	1
9/24/2012	8:04 PM	63.4	63.5	63.4	43	40.5	1	W	0.02	3	W	63.4	61	61	30.124	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	22	1	95.7	1
9/24/2012	8:05 PM	63.5	63.5	63.4	43	40.6	1	W	0.02	3	W	63.5	61.1	61.1	30.123	0	0	0.001	0	58.8	43	36.3	56.3	8.33	0.0765	23	1	100	1
9/24/2012	8:06 PM	63.5	63.5	63.4	43	40.6	2	W	0.03	5	W	63.5	61.1	61.1	30.124	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:07 PM	63.4	63.5	63.4	44	41.1	1	W	0.02	3	W	63.4	61.1	61.1	30.122	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	22	1	95.7	1
9/24/2012	8:08 PM	63.4	63.4	63.4	42	39.9	4	WSW	0.07	5	W	63.4	60.9	60.9	30.123	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:09 PM	63.5	63.5	63.4	42	40	3	WSW	0.05	5	WSW	63.5	61	61	30.124	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	23	1	100	1
9/24/2012	8:10 PM	63.5	63.5	63.5	42	40	2	WSW	0.03	6	W	63.5	61	61	30.125	0	0	0.001	0	58.7	43	36.2	56.3	8.32	0.0765	22	1	95.7	1
9/24/2012	8:11 PM	63.5	63.5	63.4	43	40.6	2	SW	0.03	4	SW	63.5	61.1	61.1	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	22	1	95.7	1
9/24/2012	8:12 PM	63.4	63.5	63.4	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:13 PM	63.5	63.5	63.4	42	40	2	SW	0.03	5	SW	63.5	61	61	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:14 PM	63.4	63.5	63.4	42	39.9	2	SW	0.03	4	SW	63.4	60.9	60.9	30.124	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:15 PM	63.4	63.4	63.4	44	41.1	1	NE	0.02	3	NE	63.4	61.1	61.1	30.125	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	24	1	100	1
9/24/2012	8:16 PM	63.4	63.4	63.4	43	40.5	1	NE	0.02	2	NE	63.4	61	61	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:17 PM	63.4	63.4	63.4	43	40.5	1	NE	0.02	3	NE	63.4	61	61	30.126	0	0	0.001	0	58.5	43	36.1	56.1	8.32	0.0766	23	1	100	1
9/24/2012	8:18 PM	63.4	63.4	63.4	43	40.5	3	NE	0.05	4	NE	63.4	61	61	30.127	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:19 PM	63.4	63.4	63.4	43	40.5	2	SW	0.03	5	SW	63.4	61	61	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:20 PM	63.4	63.4	63.4	44	41.1	1	SW	0.02	3	SW	63.4	61.1	61.1	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:21 PM	63.4	63.4	63.3	43	40.5	1	SW	0.02	5	WSW	63.4	61	61	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:22 PM	63.3	63.3	63.3	43	40.4	1	WSW	0.02	2	WSW	63.3	60.9	60.9	30.123	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:23 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	5	SW	63.3	60.9	60.9	30.124	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:24 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	7	SW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:25 PM	63.3	63.3	63.3	42	39.8	4	SW	0.07	6	SW	63.3	60.8	60.8	30.126	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	24	1	100	1
9/24/2012	8:26 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	5	SW	63.3	60.9	60.9	30.125	0	0	0.001	0	58.4	43	36	56	8.32	0.0766	23	1	100	1
9/24/2012	8:27 PM	63.4	63.4	63.3	43	40.5	2	SW	0.03	3	SW	63.4	61	61	30.124	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:28 PM	63.3	63.4	63.3	43	40.4	3	W	0.05	9	WNW	63.3	60.9	60.9	30.125	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:29 PM	63.3	63.4	63.3	44	41	1	WSW	0.02	3	WSW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:30 PM	63.3	63.3	63.3	44	41	2	WSW	0.03	4	WSW	63.3	60.9	60.9	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:31 PM	63.3	63.3	63.3	43	40.4	3	SW	0.05	6	WSW	63.3	60.9	60.9	30.128	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:32 PM	63.3	63.3	63.3	43	40.4	2	SW	0.03	4	SW	63.3	60.9	60.9	30.126	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:33 PM	63.2	63.3	63.2	44	40.9	2	SW	0.03	6	NW	63.2	60.8	60.8	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:34 PM	63.2	63.2	63.2	45	41.5	2	NE	0.03	5	W	63.2	60.9	60.9	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	23	1	100	1
9/24/2012	8:35 PM	63.1	63.2	63.1	44	40.8	3	NW	0.05	6	NW	63.1	60.7	60.7	30.127	0	0	0.001	0	58.2	43	35.8	55.8	8.31	0.0766	24	1	100	1
9/24/2012	8:36 PM	63.1	63.1	63.1	45	41.4	1	SW	0.02	4	SW	63.1	60.8	60.8	30.129	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:37 PM	63.1	63.1	63.1	45	41.4	3	SW	0.05	7	NW	63.1	60.8	60.8	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:38 PM	63.1	63.1	63	44	40.8	0	N	0	2	N	63.1	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:39 PM	63	63	63	44	40.7	2	NW	0.03	4	W	63	60.6	60.6	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:40 PM	63	63	63	45	41.3	2	W	0.03	4	W	63	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:41 PM	63	63	63	44	40.7	3	WNW	0.05	6	WNW	63	60.6	60.6	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:42 PM	63	63	63	45	41.3	1	SW	0.02	2	SW	63	60.7	60.7	30.129	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	24	1	100	1
9/24/2012	8:43 PM	63	63	63	45	41.3	0	SW	0	2	SW	63	60.7	60.7	30.13	0	0	0.001	0	58.1	43	35.7	55.7	8.31	0.0766	23	1	100	1
9/24/2012	8:44 PM	63	63	63	45	41.3	1	SW	0.02	2	SW	63	60.7	60.7	30.13	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	24	1	100	1
9/24/2012	8:45 PM	63	63	62.9	45	41.3	2	SW	0.03	5	SW	63	60.7	60.7	30.131	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	23	1	100	1
9/24/2012	8:46 PM	63	63	62.9	45	41.3	2	WSW	0.03	6	NW	63	60.7	60.7	30.13	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	23	1	100	1
9/24/2012	8:47 PM	63	63	62.9	44	40.7	2	NW	0.03	5	WSW	63	60.6	60.6	30.13	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	24	1	100	1
9/24/2012	8:48 PM	62.9	63	62.9	45	41.2	2	NW	0.03	9	WSW	62.9	60.6	60.6	30.13	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	23	1	100	1
9/24/2012	8:49 PM	63	63	62.9	44	40.7	5	WSW	0.08	9	WSW	63	60.6	60.6	30.129	0	0	0.001	0	57.9	43	35.5	55.5	8.31	0.0767	24	1	100	1
9/24/2012	8:50 PM	63	63	63	44	40.7	3	SSW	0.05	5	SW	63	60.6	60.6	30.131	0	0	0.001	0	57.9	44	36.1	55.5	8.51	0.0767	23	1	100	1
9/24/2012	8:51 PM	63	63	63	43	40.1	4	SW	0.07	7	SSW	63	60.5	60.5	30.13	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:52 PM	63	63	63	44	40.7	1	WSW	0.02	4	WSW	63	60.6	60.6	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	8:53 PM	63	63	63	44	40.7	4	W	0.07	6	W	63	60.6	60.6	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:54 PM	63.1	63.1	63	44	40.8	1	W	0.02	3	W	63.1	60.7	60.7	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:55 PM	63	63.1	63	44	40.7	2	WSW	0.03	4	WSW	63	60.6	60.6	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	23	1	100	1
9/24/2012	8:56 PM	63	63.1	63	44	40.7	3	WNW	0.05	6	NNW	63	60.6	60.6	30.13	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	23	1	100	1
9/24/2012	8:57 PM	63	63	63	44	40.7	2	NNW	0.03	5	NNW	63	60.6	60.6	30.131	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	23	1	100	1
9/24/2012	8:58 PM	63.1	63.1	63	45	41.4	2	W	0.03	4	W	63.1	60.8	60.8	30.13	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	22	1	95.7	1
9/24/2012	8:59 PM	63.1	63.1	63	45	41.4	0	W	0	3	W	63.1	60.8	60.8	30.131	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	9:00 PM	63.1	63.1	63	45	41.4	1	W	0.02	3	W	63.1	60.8	60.8	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	22	1	95.7	1
9/24/2012	9:01 PM	63	63	63	45	41.3	0	W	0	1	W	63	60.7	60.7	30.132	0	0	0.001	0	57.7	43	35.3	55.3	8.3	0.0767	24	1	100	1
9/24/2012	9:02 PM	63	63	63	46	41.9	2	W	0.03	5	WSW	63	60.8	60.8	30.132	0	0	0.001	0	57.7	44	35.9	55.4	8.5	0.0767	22	1	95.7	1
9/24/2012	9:03 PM	63	63	63	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.131	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:04 PM	63	63	62.9	46	41.9	1	SW	0.02	3	SW	63	60.8	60.8	30.132	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:05 PM	62.9	62.9	62.9	46	41.8	3	SW	0.05	4	SW	62.9	60.7	60.7	30.133	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	22	1	95.7	1
9/24/2012	9:06 PM	62.9	63	62.9	45	41.2	1	SW	0.02	3	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	43	35.2	55.2	8.3	0.0767	24	1	100	1
9/24/2012	9:07 PM	62.9	62.9	62.9	46	41.8	1	SW	0.02	7	SW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	22	1	95.7	1
9/24/2012	9:08 PM	62.9	62.9	62.9	46	41.8	4	WSW	0.07	7	WSW	62.9	60.7	60.7	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	24	1	100	1
9/24/2012	9:09 PM	62.9	62.9	62.9	45	41.2	2	SW	0.03	4	SSW	62.9	60.6	60.6	30.134	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:10 PM	62.9	62.9	62.9	45	41.2	3	SW	0.05	4	SW	62.9	60.6	60.6	30.135	0	0	0.001	0	57.6	44	35.8	55.3	8.5	0.0767	23	1	100	1
9/24/2012	9:11 PM	62.9	62.9	62.9	46	41.8	2	SW	0.03	4	SW	62.9	60.7	60.7	30.134	0	0	0.001	0	57.4	43	35.1	55	8.3	0.0768

Meteorological Data
Equity IRM

9/24/2012	10:31 PM	61.4	61.5	61.4	50	42.6	2	WSW	0.03	7	WSW	61.4	59.4	59.4	30.138	0	0	0.002	0	56.3	44	34.6	54	8.48	0.077	23	1	100	1
9/24/2012	10:32 PM	61.4	61.4	61.4	49	42.1	3	WSW	0.05	6	WSW	61.4	59.4	59.4	30.137	0	0	0.002	0	56.3	45	35.2	54.1	8.65	0.0769	23	1	100	1
9/24/2012	10:33 PM	61.5	61.5	61.4	49	42.2	2	SSW	0.03	6	SSW	61.5	59.5	59.5	30.138	0	0	0.002	0	56.3	45	35.2	54.1	8.65	0.0769	24	1	100	1
9/24/2012	10:34 PM	61.4	61.5	61.4	51	43.1	0	SW	0	2	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:35 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	3	SW	61.5	59.5	59.5	30.14	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	24	1	100	1
9/24/2012	10:36 PM	61.4	61.5	61.4	50	42.6	2	SW	0.03	4	SW	61.4	59.4	59.4	30.141	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:37 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	4	W	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	44	34.5	53.8	8.47	0.077	23	1	100	1
9/24/2012	10:38 PM	61.5	61.5	61.5	50	42.7	1	WNW	0.02	3	WNW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:39 PM	61.5	61.5	61.5	50	42.7	2	N	0.03	7	NW	61.5	59.5	59.5	30.141	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	22	1	95.7	1
9/24/2012	10:40 PM	61.5	61.5	61.5	50	42.7	2	SW	0.03	5	SW	61.5	59.5	59.5	30.142	0	0	0.002	0	56.1	45	35	53.9	8.65	0.077	23	1	100	1
9/24/2012	10:41 PM	61.5	61.5	61.5	51	43.2	1	SW	0.02	2	SW	61.5	59.6	59.6	30.142	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:42 PM	61.5	61.5	61.4	51	43.2	0	SW	0	2	SW	61.5	59.6	59.6	30.141	0	0	0.002	0	56	44	34.4	53.7	8.47	0.077	23	1	100	1
9/24/2012	10:43 PM	61.4	61.5	61.4	51	43.1	1	SW	0.02	4	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	23	1	100	1
9/24/2012	10:44 PM	61.4	61.4	61.4	51	43.1	1	SW	0.02	2	SW	61.4	59.5	59.5	30.14	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	22	1	95.7	1
9/24/2012	10:45 PM	61.4	61.4	61.4	51	43.1	1	SW	0.02	2	SW	61.4	59.5	59.5	30.141	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	24	1	100	1
9/24/2012	10:46 PM	61.4	61.4	61.4	51	43.1	3	SW	0.05	4	SW	61.4	59.5	59.5	30.137	0	0	0.002	0	56	45	34.9	53.8	8.65	0.077	22	1	95.7	1
9/24/2012	10:47 PM	61.4	61.4	61.4	50	42.6	2	SW	0.03	4	SW	61.4	59.4	59.4	30.137	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	23	1	100	1
9/24/2012	10:48 PM	61.4	61.4	61.4	50	42.6	1	SW	0.02	2	SW	61.4	59.4	59.4	30.137	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	23	1	100	1
9/24/2012	10:49 PM	61.5	61.5	61.4	52	43.7	1	SW	0.02	4	SW	61.5	59.7	59.7	30.139	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	22	1	95.7	1
9/24/2012	10:50 PM	61.5	61.5	61.4	51	43.2	1	SW	0.02	2	SW	61.5	59.6	59.6	30.139	0	0	0.002	0	55.8	44	34.2	53.6	8.47	0.077	24	1	100	1
9/24/2012	10:51 PM	61.4	61.5	61.4	52	43.6	1	SW	0.02	2	SW	61.4	59.6	59.6	30.137	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	22	1	95.7	1
9/24/2012	10:52 PM	61.4	61.4	61.4	51	43.1	0	SW	0	1	SW	61.4	59.5	59.5	30.138	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	24	1	100	1
9/24/2012	10:53 PM	61.4	61.4	61.4	51	43.1	3	SW	0.05	5	SW	61.4	59.5	59.5	30.138	0	0	0.002	0	55.8	45	34.8	53.6	8.65	0.077	22	1	95.7	1
9/24/2012	10:54 PM	61.3	61.4	61.3	51	43	2	WSW	0.03	4	W	61.3	59.4	59.4	30.138	0	0	0.003	0	55.8	44	34.2	53.6	8.47	0.077	24	1	100	1
9/24/2012	10:55 PM	61.3	61.4	61.3	51	43	2	WSW	0.03	3	WSW	61.3	59.4	59.4	30.138	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	10:56 PM	61.3	61.4	61.3	52	43.5	0	WSW	0	1	WSW	61.3	59.5	59.5	30.137	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	23	1	100	1
9/24/2012	10:57 PM	61.3	61.3	61.3	52	43.5	0	WSW	0	2	WSW	61.3	59.5	59.5	30.137	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	24	1	100	1
9/24/2012	10:58 PM	61.3	61.3	61.3	53	44	1	WSW	0.02	2	WSW	61.3	59.6	59.6	30.137	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	10:59 PM	61.2	61.3	61.2	54	44.4	2	W	0.03	4	W	61.2	59.5	59.5	30.139	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	24	1	100	1
9/24/2012	11:00 PM	61.2	61.2	61.2	52	43.4	1	SW	0.02	2	W	61.2	59.4	59.4	30.14	0	0	0.003	0	55.7	45	34.7	53.5	8.65	0.077	23	1	100	1
9/24/2012	11:01 PM	61.1	61.2	61.1	52	43.3	2	NNW	0.03	5	NNW	61.1	59.3	59.3	30.14	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	23	1	100	1
9/24/2012	11:02 PM	61.1	61.1	61.1	52	43.3	1	NNW	0.02	1	NNW	61.1	59.3	59.3	30.142	0	0	0.003	0	55.7	44	34.1	53.5	8.46	0.0771	24	1	100	1
9/24/2012	11:03 PM	61.1	61.1	61	52	43.3	1	NNW	0.02	2	NNW	61.1	59.3	59.3	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	22	1	95.7	1
9/24/2012	11:04 PM	61	61	61	52	43.2	3	WSW	0.05	7	W	61	59.2	59.2	30.141	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:05 PM	61	61	61	52	43.2	2	NW	0.03	4	NW	61	59.2	59.2	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:06 PM	61	61	61	52	43.2	1	NW	0.02	4	NW	61	59.2	59.2	30.142	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:07 PM	61	61	61	53	43.7	2	NW	0.03	5	WSW	61	59.2	59.2	30.143	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:08 PM	61	61	61	51	42.7	7	WSW	0.12	11	NW	60.4	59.1	58.5	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:09 PM	61.1	61.1	61	51	42.8	4	SW	0.07	7	SSW	61.1	59.2	59.2	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:10 PM	61.2	61.2	61.1	51	42.9	3	SW	0.05	5	SW	61.2	59.3	59.3	30.144	0	0	0.003	0	55.5	45	34.5	53.3	8.65	0.0771	22	1	95.7	1
9/24/2012	11:11 PM	61.3	61.3	61.2	51	43	1	SW	0.02	2	SW	61.3	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:12 PM	61.2	61.2	61.2	51	42.9	2	SW	0.03	3	SW	61.2	59.3	59.3	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:13 PM	61.2	61.2	61.2	51	42.9	2	SW	0.03	4	SW	61.2	59.3	59.3	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:14 PM	61.2	61.2	61.2	51	42.9	1	SW	0.02	3	SW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:15 PM	61.2	61.2	61.2	51	42.9	2	WNW	0.03	5	NW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:16 PM	61.2	61.2	61.2	52	43.4	2	WNW	0.03	3	WNW	61.2	59.4	59.4	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:17 PM	61.2	61.2	61.2	51	42.9	3	WNW	0.05	6	WNW	61.2	59.3	59.3	30.146	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:18 PM	61.2	61.2	61.2	52	43.4	2	SW	0.03	3	SW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:19 PM	61.2	61.2	61.2	52	43.4	2	WSW	0.03	4	WSW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:20 PM	61.2	61.2	61.2	52	43.4	1	WNW	0.02	2	WNW	61.2	59.4	59.4	30.145	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:21 PM	61.2	61.2	61.1	52	43.4	0	WNW	0	1	WNW	61.2	59.4	59.4	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:22 PM	61.1	61.2	61.1	52	43.3	1	WNW	0.02	2	WNW	61.1	59.3	59.3	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:23 PM	61.1	61.1	61.1	52	43.3	1	WNW	0.02	2	WNW	61.1	59.3	59.3	30.143	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	24	1	100	1
9/24/2012	11:24 PM	61	61.1	61	53	43.7	1	WNW	0.02	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:25 PM	61	61.1	61	52	43.2	1	W	0.02	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.4	45	34.4	53.3	8.65	0.0771	23	1	100	1
9/24/2012	11:26 PM	61	61	61	52	43.2	2	W	0.03	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:27 PM	61	61	61	52	43.2	2	W	0.03	3	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:28 PM	61	61	61	52	43.2	1	WNW	0.02	2	W	61	59.2	59.2	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:29 PM	60.9	61	60.9	53	43.6	1	WNW	0.02	3	W	60.9	59.1	59.1	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:30 PM	60.9	60.9	60.9	52	43.1	4	WSW	0.07	6	W	60.9	59.1	59.1	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	23	1	100	1
9/24/2012	11:31 PM	60.9	60.9	60.8	52	43.1	3	WSW	0.05	5	WSW	60.9	59.1	59.1	30.145	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:32 PM	60.8	60.9	60.8	52	43.1	2	WSW	0.03	3	WSW	60.8	59	59	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	21	1	91.3	1
9/24/2012	11:33 PM	60.8	60.8	60.8	52	43.1	1	WSW	0.02	3	WSW	60.8	59	59	30.144	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:34 PM	60.8	60.8	60.8	53	43.6	2	WSW	0.03	4	WSW	60.8	59	59	30.143	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	22	1	95.7	1
9/24/2012	11:35 PM	60.8	60.8	60.8	52	43.1	2	WSW	0.03	4	WSW	60.8	59	59	30.143	0	0	0.003	0	55.2	45	34.2	53.1	8.65	0.0771	24	1	100	1
9/24/2012	11:36 PM	60.8	60.8	60.7	53	43.6	4	SW	0.07	6	SW	60.8	59	59	30.142	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:37 PM	60.7	60.8	60.7	53	43.5	4	WSW	0.07	9	WSW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:38 PM	60.7	60.8	60.7	52	43	3	WSW	0.05	5	WSW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:39 PM	60.7	60.8	60.7	53	43.5	1	WSW	0.02	3	WSW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:40 PM	60.7	60.7	60.7	53	43.5	2	WSW	0.03	3	WSW	60.7	58.9	58.9	30.145	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	24	1	100	1
9/24/2012	11:41 PM	60.7	60.7	60.7	52	43	2	WSW	0.03	3	WSW	60.7	58.9	58.9	30.145	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:42 PM	60.7	60.7	60.7	52	43	1	WSW	0.02	3	WSW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:43 PM	60.7	60.7	60.7	52	43	2	WSW	0.03	5	SW	60.7	58.9	58.9	30.144	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	22	1	95.7	1
9/24/2012	11:44 PM	60.7	60.7	60.7	52	43	4	SW	0.07	5	SW	60.7	58.9	58.9	30.143	0	0	0.003	0	55.1	45	34.1	53	8.65	0.0772	23	1	100	1
9/24/2012	11:45 PM	60.7	60.7	60.7	52	43	1	SW	0.02	3	SW	60.7	58.9	58.9	30.143	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:46 PM	60.7	60.7	60.7	52	43	1	SW	0.02	3	SW	60.7	58.9	58.9	30.144	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:47 PM	60.7	60.7	60.7	52	43	1	SW	0.02	2	SW	60.7	58.9	58.9	30.146	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:48 PM	60.7	60.7	60.7	52	43	1	SW	0.02	2	SW	60.7	58.9	58.9	30.146	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:49 PM	60.7	60.7	60.6	54	43.9	0	SW	0	1	SW	60.7	59	59	30.147	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:50 PM	60.6	60.6	60.6	53	43.4	1	SW	0.02	2	SW	60.6	58.8	58.8	30.147	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:51 PM	60.6	60.6	60.5	53	43.4	1	SW	0.02	3	SW	60.6	58.8	58.8	30.15	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	23	1	100	1
9/24/2012	11:52 PM	60.5	60.6	60.5	53	43.3	2	SW	0.03	4	SW	60.5	58.7	58.7	30.148	0	0	0.003	0	54.9	45	33.9	52.8	8.65	0.0772	24	1	100	1
9/24/2012	11:53 PM	60.5	60.5	60.5	53	43.3	2	SW	0.03	3	SW	60.5	58.7	58.7	30.15	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:54 PM	60.5	60.5	60.5	54	43.8	2	SW	0.03	4	SW	60.5	58.8	58.8	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:55 PM	60.4	60.5	60.4	53	43.2	1	SW	0.02	4	SW	60.4	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/24/2012	11:56 PM	60.4	60.4	60.4	53	43.2	1	SW	0.02	2	SW	60.4	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:57 PM	60.4	60.4	60.3	54	43.7	1	SW	0.02	3	SW	60.4	58.7	58.7	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/24/2012	11:58 PM	60.3	60.3	60.3	53	43.1	1	SW	0.02	3	SW	60.3	58.5	58.5	30.15	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	23	1	100	1
9/24/2012	11:59 PM	60.3	60.3	60.3	54	43.6	0	SW	0	1	SW	60.3	58.6	58.6	30.149	0	0	0.003	0	54.8	45	33.8	52.7	8.65	0.0772	24	1	100	1
9/25/2012	12:00 AM	60.2	60.3	60.2	54	43.5	0	SW	0	4	SW	60.2	58.5	58.5	30.15	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:01 AM	60.2	60.2	60.2	54	43.5	1	SW	0.02	3	SW	60.2	58.5	58.5	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	22	1	95.7	1
9/25/2012	12:02 AM	60.2	60.2	60.2	55	44	0	SW	0	1	SW	60.2	58.6	58.6	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:03 AM	60.1	60.1	60.1	56	44.3	1	SW	0.02	3	SW	60.1	58.6	58.6	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:04 AM	60	60.1	60	56	44.3	0	SW	0	1	SW	60	58.5	58.5	30.152	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:05 AM	60	60	60	55	43.8	0	---	0	0	---	60	58.4	58.4	30.151	0	0	0.003	0	54.6	45	33.7	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:06 AM	59.9	60	59.9	56	44.2	0	SW	0	1	SW	59.9	58.4	58.4	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:07 AM	59.9	59.9	59.9	55	43.7	1	SW	0.02	2	SW	59.9	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:08 AM	59.8	59.9	59.8	55	43.6	0	---	0	0	---	59.8	58.2	58.2	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	24	1	100	1
9/25/2012	12:09 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.15	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:10 AM	59.8	59.8	59.8	56	44.1	0	---	0	0	---	59.8	58.3	58.3	30.151	0	0	0.004	0	54.5	45	33.6	52.5	8.66	0.0773	23	1	100	1
9/25/2012	12:11 AM	59.7	59.8	59.7	58	44.9	0	---	0	0

Meteorological Data
Equity IRM

9/25/2012	1:31 AM	60.2	60.2	60.2	51	42	5	WSW	0.08	9	SW	60.2	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:32 AM	60.2	60.2	60.2	51	42	5	WSW	0.08	9	SW	60.2	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	1:33 AM	60.2	60.2	60.2	52	42.5	2	WSW	0.03	4	WSW	60.2	58.4	58.4	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:34 AM	60.2	60.2	60.2	52	42.5	1	WSW	0.02	4	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:35 AM	60.2	60.2	60.2	52	42.5	2	SW	0.03	5	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:36 AM	60.2	60.2	60.2	53	43	3	WSW	0.05	6	WSW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:37 AM	60.2	60.2	60.1	53	43	2	SW	0.03	4	SW	60.2	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:38 AM	60.1	60.1	60.1	53	42.9	3	SW	0.05	5	SW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:39 AM	60.1	60.1	60.1	53	42.9	3	WSW	0.05	4	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:40 AM	60.1	60.1	60	53	42.9	4	WSW	0.07	7	WSW	60.1	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:41 AM	60.1	60.1	60	54	43.4	2	WSW	0.03	4	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:42 AM	60.1	60.1	60	54	43.4	3	WSW	0.05	5	WSW	60.1	58.4	58.4	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:43 AM	60	60	60	54	43.3	4	WSW	0.07	6	W	60	58.3	58.3	30.161	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:44 AM	60	60	60	54	43.3	3	WSW	0.05	5	WSW	60	58.3	58.3	30.16	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:45 AM	60	60	60	54	43.3	5	WSW	0.08	6	WSW	60	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:46 AM	60	60	60	54	43.3	3	WSW	0.05	6	WSW	60	58.3	58.3	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:47 AM	60	60	60	55	43.8	2	WSW	0.03	4	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:48 AM	60	60	60	55	43.8	1	WSW	0.02	3	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:49 AM	60	60	60	55	43.8	2	WSW	0.03	4	WSW	60	58.4	58.4	30.159	0	0	0.003	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:50 AM	59.9	60	59.9	55	43.7	3	WSW	0.05	5	WSW	59.9	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:51 AM	59.9	59.9	59.9	55	43.7	1	WSW	0.02	3	WSW	59.9	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:52 AM	59.9	59.9	59.9	56	44.2	0	---	0	0	---	59.9	58.4	58.4	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:53 AM	59.8	59.9	59.8	56	44.1	2	WSW	0.03	3	WSW	59.8	58.3	58.3	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:54 AM	59.8	59.8	59.8	55	43.6	1	WSW	0.02	2	WSW	59.8	58.2	58.2	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:55 AM	59.7	59.8	59.7	56	44	3	WSW	0.05	4	WSW	59.7	58.2	58.2	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:56 AM	59.7	59.7	59.7	56	44	3	WSW	0.05	5	WSW	59.7	58.2	58.2	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:57 AM	59.6	59.7	59.6	56	43.9	3	WSW	0.05	4	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	1:58 AM	59.6	59.7	59.6	56	43.9	2	WSW	0.03	4	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	1:59 AM	59.6	59.6	59.6	56	43.9	2	WSW	0.03	4	WSW	59.6	58.1	58.1	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:00 AM	59.6	59.6	59.6	57	44.3	1	WSW	0.02	3	WSW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:01 AM	59.6	59.6	59.6	57	44.3	2	SW	0.03	5	SW	59.6	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:02 AM	59.6	59.6	59.6	57	44.3	1	SW	0.02	2	SW	59.6	58.1	58.1	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:03 AM	59.5	59.6	59.5	57	44.2	1	SW	0.02	4	SW	59.5	58	58	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:04 AM	59.5	59.5	59.5	58	44.7	2	SW	0.03	4	SW	59.5	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:05 AM	59.5	59.5	59.5	57	44.2	2	SW	0.03	4	SW	59.5	58	58	30.158	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:06 AM	59.5	59.5	59.5	57	44.2	1	SW	0.02	2	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:07 AM	59.5	59.5	59.5	58	44.7	2	SW	0.03	3	SW	59.5	58.1	58.1	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:08 AM	59.5	59.6	59.5	57	44.2	2	SW	0.03	3	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	23	1	100	1
9/25/2012	2:09 AM	59.5	59.5	59.5	57	44.2	3	SW	0.05	4	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:10 AM	59.5	59.6	59.5	57	44.2	1	SW	0.02	2	SW	59.5	58	58	30.157	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:11 AM	59.5	59.5	59.5	57	44.2	2	SW	0.03	3	SW	59.5	58	58	30.156	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:12 AM	59.5	59.5	59.5	56	43.8	1	SW	0.02	2	SW	59.5	58	58	30.156	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:13 AM	59.5	59.5	59.5	57	44.2	1	SW	0.02	3	SW	59.5	58	58	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	22	1	95.7	1
9/25/2012	2:14 AM	59.5	59.5	59.5	58	44.7	0	SW	0	1	SW	59.5	58.1	58.1	30.155	0	0	0.004	0	52.8	46	32.6	51.1	8.85	0.0776	24	1	100	1
9/25/2012	2:15 AM	59.5	59.5	59.4	58	44.7	1	SW	0.02	2	SW	59.5	58.1	58.1	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:16 AM	59.4	59.5	59.4	58	44.6	0	SW	0	1	SW	59.4	58	58	30.156	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:17 AM	59.4	59.4	59.4	59	45.1	0	---	0	0	---	59.4	58	58	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:18 AM	59.3	59.4	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:19 AM	59.3	59.3	59.3	58	44.5	0	---	0	0	---	59.3	57.9	57.9	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:20 AM	59.2	59.3	59.2	58	44.4	0	SW	0	1	SW	59.2	57.8	57.8	30.155	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	23	1	100	1
9/25/2012	2:21 AM	59.2	59.2	59.2	58	44.4	0	SW	0	1	SW	59.2	57.8	57.8	30.153	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	23	1	100	1
9/25/2012	2:22 AM	59.1	59.2	59.1	58	44.3	0	---	0	0	---	59.1	57.7	57.7	30.153	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	22	1	95.7	1
9/25/2012	2:23 AM	59.1	59.1	59.1	60	45.2	0	---	0	0	---	59.1	57.8	57.8	30.154	0	0	0.004	0	52.7	46	32.5	51	8.85	0.0776	24	1	100	1
9/25/2012	2:24 AM	59.1	59.1	59.1	59	44.8	0	SW	0	1	SW	59.1	57.7	57.7	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:25 AM	59	59.1	59	61	45.6	0	SW	0	1	SW	59	57.8	57.8	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:26 AM	58.9	59	58.9	60	45	1	SW	0.02	2	SW	58.9	57.6	57.6	30.155	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	24	1	100	1
9/25/2012	2:27 AM	58.9	58.9	58.9	61	45.5	0	SW	0	1	SW	58.9	57.7	57.7	30.154	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:28 AM	58.8	58.9	58.8	61	45.4	0	---	0	0	---	58.8	57.6	57.6	30.154	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	24	1	100	1
9/25/2012	2:29 AM	58.7	58.8	58.7	60	44.8	0	---	0	0	---	58.7	57.4	57.4	30.153	0	0	0.004	0	52.6	46	32.4	50.9	8.85	0.0776	23	1	100	1
9/25/2012	2:30 AM	58.7	58.7	58.7	61	45.3	0	SW	0	1	SW	58.7	57.5	57.5	30.153	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	24	1	100	1
9/25/2012	2:31 AM	58.7	58.7	58.7	62	45.7	0	SW	0	1	SW	58.7	57.5	57.5	30.152	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	22	1	95.7	1
9/25/2012	2:32 AM	58.6	58.7	58.6	62	45.6	0	SW	0	1	SW	58.6	57.4	57.4	30.154	0	0	0.004	0	52.4	46	32.2	50.7	8.85	0.0776	23	1	100	1
9/25/2012	2:33 AM	58.5	58.6	58.5	61	45.1	0	SW	0	1	SW	58.5	57.3	57.3	30.154	0	0	0.005	0	52.4	46	32.2	50.7	8.85	0.0776	24	1	100	1
9/25/2012	2:34 AM	58.5	58.5	58.5	62	45.5	0	SW	0	2	SW	58.5	57.3	57.3	30.154	0	0	0.005	0	52.4	46	32.2	50.7	8.85	0.0776	23	1	100	1
9/25/2012	2:35 AM	58.5	58.5	58.5	61	45.1	1	SW	0.02	3	SW	58.5	57.3	57.3	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	24	1	100	1
9/25/2012	2:36 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.154	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	23	1	100	1
9/25/2012	2:37 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	23	1	100	1
9/25/2012	2:38 AM	58.5	58.5	58.5	60	44.7	0	SW	0	1	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	24	1	100	1
9/25/2012	2:39 AM	58.5	58.5	58.5	60	44.7	1	SW	0.02	2	SW	58.5	57.2	57.2	30.153	0	0	0.005	0	52.3	46	32.1	50.6	8.85	0.0776	22	1	95.7	1
9/25/2012	2:40 AM	58.6	58.6	58.5	59	44.3	1	SW	0.02	2	SW	58.6	57.2	57.2	30.153	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:41 AM	58.6	58.6	58.6	59	44.3	1	SW	0.02	3	SW	58.6	57.2	57.2	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:42 AM	58.6	58.6	58.6	60	44.8	1	SW	0.02	2	SW	58.6	57.3	57.3	30.15	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:43 AM	58.7	58.7	58.6	60	44.8	1	SW	0.02	3	SW	58.7	57.4	57.4	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:44 AM	58.7	58.7	58.7	61	45.3	0	SW	0	2	SW	58.7	57.5	57.5	30.152	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	23	1	100	1
9/25/2012	2:45 AM	58.7	58.7	58.7	60	44.8	1	SW	0.02	3	SW	58.7	57.4	57.4	30.151	0	0	0.004	0	52.1	46	31.9	50.4	8.85	0.0777	24	1	100	1
9/25/2012	2:46 AM	58.7	58.7	58.7	59	44.4	1	SW	0.02	3	SW	58.7	57.3	57.3	30.151	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:47 AM	58.7	58.7	58.7	59	44.4	1	SW	0.02	2	SW	58.7	57.3	57.3	30.153	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	24	1	100	1
9/25/2012	2:48 AM	58.8	58.8	58.7	59	44.5	1	SW	0.02	2	SW	58.8	57.4	57.4	30.153	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	22	1	95.7	1
9/25/2012	2:49 AM	58.8	58.8	58.8	59	44.5	1	SW	0.02	3	SW	58.8	57.4	57.4	30.155	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:50 AM	58.8	58.8	58.8	58	44	1	SW	0.02	2	SW	58.8	57.4	57.4	30.154	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	24	1	100	1
9/25/2012	2:51 AM	58.9	58.9	58.8	60	45	0	---	0	0	---	58.9	57.6	57.6	30.154	0	0	0.004	0	52	46	31.8	50.3	8.85	0.0777	23	1	100	1
9/25/2012	2:52 AM	58.8	58.9	58.8	59	44.5	1	SW	0.02	2	SW	58.8	57.4	57.4	30.156	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:53 AM	58.9	58.9	58.8	58	44.1	1	SW	0.02	3	SW	58.9	57.5	57.5	30.156	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	22	1	95.7	1
9/25/2012	2:54 AM	58.9	58.9	58.8	58	44.1	2	SW	0.03	3	SW	58.9	57.5	57.5	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:55 AM	58.8	58.9	58.8	58	44	2	SW	0.03	3	SW	58.8	57.4	57.4	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	24	1	100	1
9/25/2012	2:56 AM	58.9	58.9	58.8	57	43.7	4	SW	0.07	6	SW	58.9	57.4	57.4	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	23	1	100	1
9/25/2012	2:57 AM	59	59	58.9	57	43.8	3	WSW	0.05	5	WSW	59	57.5	57.5	30.154	0	0	0.004	0	51.8	46	31.7	50.2	8.85	0.0777	24	1	100	1
9/25/2012	2:58 AM	59	59	59	57	43.8	4	WSW	0.07	5	WSW	59	57.5	57.5	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	2:59 AM	59.1	59.1	59	57	43.9	1	WSW	0.02	2	WSW	59.1	57.6	57.6	30.154	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	24	1	100	1
9/25/2012	3:00 AM	59.1	59.1	59.1	57	43.9	2	WSW	0.03	4	WSW	59.1	57.6	57.6	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:01 AM	59.1	59.1	59.1	56	43.4	1	WSW	0.02	2	WSW	59.1	57.6	57.6	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:02 AM	59.2	59.2	59.1	56	43.5	3	WSW	0.05	5	WSW	59.2	57.7	57.7	30.152	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:03 AM	59.2	59.2	59.2	56	43.5	3	WSW	0.05	4	WSW	59.2	57.7	57.7	30.153	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:04 AM	59.3	59.3	59.2	56	43.6	4	WSW	0.07	6	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:05 AM	59.3	59.3	59.2	56	43.6	2	SW	0.03	5	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	22	1	95.7	1
9/25/2012	3:06 AM	59.3	59.3	59.3	56	43.6	2	SW	0.03	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:07 AM	59.3	59.3	59.3	55	43.1	2	SW	0.03	3	SW	59.3	57.7	57.7	30.151	0	0	0.004	0	51.7	46	31.6	50.1	8.85	0.0777	23	1	100	1
9/25/2012	3:08 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.152	0	0	0.004	0	51.7	47	32.1	50.1	9.02	0.0777	23	1	100	1
9/25/2012	3:09 AM	59.3	59.3	59.3	56	43.6	1	SW	0.02	3	SW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:10 AM	59.3	59.3	59.3	56	43.6	4	SW	0.07	7	WSW	59.3	57.8	57.8	30.151	0	0	0.004	0	51.5	46	31.4	49.9	8.85	0.0778	23	1	100	1
9/25/2012	3:11 AM	59.3	59.3	59.3

Meteorological Data
Equity IRM

9/25/2012	4:31 AM	57.8	57.8	57.8	61	44.4	1	WSW	0.02	3	WSW	57.8	56.6	56.6	30.158	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	4:32 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.159	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:33 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	3	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	24	1	100	1
9/25/2012	4:34 AM	57.8	57.8	57.8	62	44.9	1	WSW	0.02	2	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:35 AM	57.8	57.8	57.8	62	44.9	1	WSW	0.02	3	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	4:36 AM	57.8	57.8	57.8	62	44.9	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.154	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:37 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	3	WSW	57.8	56.6	56.6	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	4:38 AM	57.8	57.8	57.8	61	44.4	2	WSW	0.03	4	WSW	57.8	56.6	56.6	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:39 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:40 AM	57.9	57.9	57.8	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.155	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:41 AM	57.9	57.9	57.9	61	44.5	3	WSW	0.05	6	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:42 AM	57.9	57.9	57.9	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	4:43 AM	57.9	57.9	57.9	61	44.5	1	WSW	0.02	2	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	4:44 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.157	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	4:45 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	4	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	4:46 AM	57.9	58	57.9	61	44.5	2	WSW	0.03	3	WSW	57.9	56.7	56.7	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:47 AM	58	58	57.9	61	44.6	2	WSW	0.03	4	WSW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:48 AM	58	58	58	61	44.6	2	WSW	0.03	4	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:49 AM	58	58	58	61	44.6	1	WSW	0.02	3	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:50 AM	58	58	58	61	44.6	2	WSW	0.03	3	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	4:51 AM	58	58	58	61	44.6	3	SW	0.05	5	WSW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:52 AM	58	58	58	61	44.6	2	SW	0.03	5	W	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:53 AM	58	58	58	62	45	2	SW	0.03	4	SW	58	56.8	56.8	30.156	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:54 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:55 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.157	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:56 AM	58	58	58	61	44.6	2	SW	0.03	4	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:57 AM	58	58	58	61	44.6	1	SW	0.02	3	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	4:58 AM	58	58	58	62	45	1	SW	0.02	2	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	4:59 AM	58	58	58	62	45	2	SW	0.03	2	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:00 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:01 AM	58	58	58	61	44.6	3	SW	0.05	4	SW	58	56.8	56.8	30.158	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:02 AM	58	58	58	61	44.6	2	SW	0.03	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:03 AM	58	58	58	61	44.6	1	SW	0.02	2	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:04 AM	58	58	58	61	44.6	0	SW	0	1	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:05 AM	58	58	58	60	44.2	1	SW	0.02	2	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:06 AM	58	58	58	61	44.6	1	SW	0.02	3	SW	58	56.8	56.8	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:07 AM	58	58	58	60	44.2	2	SW	0.03	4	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:08 AM	58	58	58	60	44.2	0	SW	0	1	SW	58	56.7	56.7	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:09 AM	58	58	58	60	44.2	2	SW	0.03	3	SW	58	56.7	56.7	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:10 AM	58	58	58	59	43.7	1	SW	0.02	3	SW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:11 AM	58	58	58	60	44.2	1	SW	0.02	2	SW	58	56.7	56.7	30.159	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:12 AM	58	58	57.9	59	43.7	1	SW	0.02	3	SW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:13 AM	57.9	57.9	57.9	58	43.2	4	W	0.07	6	SW	57.9	56.5	56.5	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:14 AM	58	58	58	58	43.3	2	SW	0.03	6	WSW	58	56.6	56.6	30.158	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:15 AM	58	58	58	57	42.8	2	SW	0.03	4	SW	58	56.5	56.5	30.161	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:16 AM	58	58	58	58	43.3	4	SW	0.07	5	SW	58	56.6	56.6	30.162	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:17 AM	58	58	58	58	43.3	1	SW	0.02	3	SW	58	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:18 AM	58	58	58	57	42.8	3	SW	0.05	5	SW	58	56.5	56.5	30.162	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:19 AM	58	58.1	58	57	42.8	3	SW	0.05	7	WSW	58	56.5	56.5	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:20 AM	58.1	58.1	58	57	42.9	4	WSW	0.07	6	NW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:21 AM	58.1	58.1	58.1	57	42.9	4	WSW	0.07	6	WSW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:22 AM	58.1	58.1	58.1	56	42.5	3	WSW	0.05	5	WSW	58.1	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:23 AM	58.2	58.2	58.1	57	43	2	WSW	0.03	6	WSW	58.2	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:24 AM	58.1	58.2	58.1	56	42.5	2	WSW	0.03	4	WSW	58.1	56.6	56.6	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:25 AM	58.2	58.2	58.2	56	42.6	1	WSW	0.02	3	WSW	58.2	56.7	56.7	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:26 AM	58.2	58.2	58.2	56	42.6	4	WSW	0.07	6	WSW	58.2	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:27 AM	58.2	58.2	58.2	55	42.1	2	WSW	0.03	3	WSW	58.2	56.6	56.6	30.166	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:28 AM	58.2	58.2	58.2	55	42.1	2	WSW	0.03	4	SW	58.2	56.6	56.6	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:29 AM	58.2	58.2	58.2	55	42.1	2	SW	0.03	4	SW	58.2	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:30 AM	58.2	58.2	58.2	55	42.1	3	SW	0.05	5	SW	58.2	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:31 AM	58.2	58.2	58.2	55	42.1	3	SSW	0.05	5	S	58.2	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:32 AM	58.2	58.3	58.2	54	41.6	4	SW	0.07	6	SSW	58.2	56.5	56.5	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:33 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	7	SW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:34 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	4	SSW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:35 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	6	W	58.3	56.6	56.6	30.164	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:36 AM	58.3	58.3	58.3	54	41.7	4	WSW	0.07	8	WSW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:37 AM	58.3	58.3	58.3	55	42.2	4	WSW	0.07	7	WSW	58.3	56.7	56.7	30.165	0	0	0.005	0	50.5	47	31	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:38 AM	58.3	58.3	58.3	54	41.7	3	SW	0.05	6	SW	58.3	56.6	56.6	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	23	1	100	1
9/25/2012	5:39 AM	58.3	58.3	58.3	54	41.7	5	SW	0.08	7	WNW	58	56.6	56.3	30.162	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:40 AM	58.3	58.3	58.3	54	41.7	3	WSW	0.05	6	WNW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:41 AM	58.3	58.3	58.3	54	41.7	5	WSW	0.08	8	WSW	58	56.6	56.3	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:42 AM	58.3	58.3	58.3	54	41.7	2	SSW	0.03	3	SSW	58.3	56.6	56.6	30.162	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:43 AM	58.3	58.3	58.3	54	41.7	3	SSW	0.05	5	SW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:44 AM	58.3	58.3	58.3	54	41.7	4	SW	0.07	5	SSE	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	23	1	100	1
9/25/2012	5:45 AM	58.3	58.3	58.3	55	42.2	2	SW	0.03	5	SW	58.3	56.7	56.7	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	22	1	95.7	1
9/25/2012	5:46 AM	58.3	58.3	58.3	54	41.7	0	SW	0	1	SW	58.3	56.6	56.6	30.163	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.0779	24	1	100	1
9/25/2012	5:47 AM	58.2	58.3	58.2	54	41.6	1	SW	0.02	3	SW	58.2	56.5	56.5	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	22	1	95.7	1
9/25/2012	5:48 AM	58.3	58.3	58.2	54	41.7	5	WSW	0.08	8	WSW	58	56.6	56.3	30.164	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	24	1	100	1
9/25/2012	5:49 AM	58.3	58.3	58.2	54	41.7	3	WSW	0.05	5	WNW	58.3	56.6	56.6	30.165	0	0	0.005	0	50.6	47	31.1	49.2	9.04	0.078	22	1	95.7	1
9/25/2012	5:50 AM	58.2	58.2	58.2	54	41.6	4	WSW	0.07	6	WSW	58.2	56.5	56.5	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	22	1	95.7	1
9/25/2012	5:51 AM	58.2	58.2	58.2	55	42.1	3	WSW	0.05	6	WSW	58.2	56.6	56.6	30.165	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:52 AM	58.2	58.3	58.2	54	41.6	2	SW	0.03	6	SW	58.2	56.5	56.5	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:53 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	5	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	5:54 AM	58.2	58.3	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:55 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:56 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	3	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:57 AM	58.2	58.2	58.2	55	42.1	1	W	0.02	2	W	58.2	56.6	56.6	30.165	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	5:58 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	W	58.2	56.6	56.6	30.166	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	5:59 AM	58.2	58.2	58.2	55	42.1	2	W	0.03	4	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:00 AM	58.2	58.2	58.2	55	42.1	4	WSW	0.07	6	W	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:01 AM	58.2	58.2	58.2	55	42.1	4	WSW	0.07	6	W	58.2	56.6	56.6	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:02 AM	58.2	58.3	58.2	55	42.1	4	WSW	0.07	7	WSW	58.2	56.6	56.6	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:03 AM	58.3	58.3	58.2	55	42.2	4	SW	0.07	6	SW	58.3	56.7	56.7	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:04 AM	58.3	58.3	58.3	55	42.2	3	SW	0.05	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:05 AM	58.3	58.3	58.3	55	42.2	2	SW	0.03	4	SW	58.3	56.7	56.7	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:06 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	7	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	23	1	100	1
9/25/2012	6:07 AM	58.3	58.3	58.3	56	42.7	3	SW	0.05	4	SW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.8	47	31.3	49.4	9.03	0.0779	24	1	100	1
9/25/2012	6:08 AM	58.3	58.4	58.3	56	42.7	5	WSW	0.08	6	SW	58	56.8	56.5	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:09 AM	58.3	58.3	58.3	56	42.7	3	WSW	0.05	6	WNW	58.3	56.8	56.8	30.169	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:10 AM	58.3	58.4	58.3	56	42.7	3	W	0.05	5	W	58.3	56.8	56.8	30.167	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012	6:11 AM	58.3	58.4	58.3	56	42.7	3	WSW	0.05	5	WSW	58.3	56.8	56.8	30.168	0	0	0.005	0	50.9	47	31.4	49.5	9.03	0.0779	23	1	100	1
9/25/2012

Meteorological Data
Equity IRM

9/25/2012	7:31 AM	59.9	59.9	59.9	59	45.5	4	WSW	0.07	9	W	59.9	58.5	58.5	30.189	0	0	0.004	0	56	58	41.4	54.6	10.75	0.077	22	1	95.7	1
9/25/2012	7:32 AM	59.9	59.9	59.9	59	45.5	6	WSW	0.1	9	W	59.5	58.5	58.1	30.186	0	0	0.004	0	56.3	58	41.7	54.9	10.75	0.0769	23	1	100	1
9/25/2012	7:33 AM	59.9	59.9	59.9	59	45.5	5	WSW	0.08	9	W	59.9	58.5	58.5	30.186	0	0	0.004	0	56.5	58	41.9	55.1	10.75	0.0769	23	1	100	1
9/25/2012	7:34 AM	59.8	59.9	59.8	60	45.9	6	WSW	0.1	9	WSW	59.4	58.5	58.1	30.187	0	0	0.004	0	56.8	58	42.2	55.4	10.75	0.0768	24	1	100	1
9/25/2012	7:35 AM	59.8	59.8	59.8	60	45.9	3	WSW	0.05	6	SW	59.8	58.5	58.5	30.187	0	0	0.004	0	57.1	57	42	55.6	10.61	0.0768	23	1	100	1
9/25/2012	7:36 AM	60.2	60.2	59.9	60	46.3	5	WSW	0.08	9	W	60.2	58.9	58.9	30.186	0	0	0.003	0	57.4	57	42.3	55.9	10.6	0.0767	24	1	100	1
9/25/2012	7:37 AM	60.4	60.4	60.2	60	46.4	3	WSW	0.05	8	W	60.4	59.1	59.1	30.188	0	0	0.003	0	57.7	58	43	56.3	10.75	0.0767	23	1	100	1
9/25/2012	7:38 AM	60.5	60.5	60.5	59	46.1	4	S	0.07	6	WSW	60.5	59.2	59.2	30.188	0	0	0.003	0	58.1	57	42.9	56.6	10.59	0.0766	23	1	100	1
9/25/2012	7:39 AM	60.5	60.5	60.5	59	46.1	1	SSW	0.02	3	SSW	60.5	59.2	59.2	30.186	0	0	0.003	0	58.4	57	43.2	56.9	10.58	0.0766	24	1	100	1
9/25/2012	7:40 AM	60.5	60.6	60.5	59	46.1	5	WSW	0.08	12	W	60.5	59.2	59.2	30.188	0	0	0.003	0	58.7	57	43.5	57.2	10.58	0.0765	23	1	100	1
9/25/2012	7:41 AM	60.4	60.5	60.4	59	46	6	WSW	0.1	12	W	60.1	59.1	58.8	30.186	0	0	0.003	0	58.8	56	43.1	57.3	10.45	0.0765	24	1	100	1
9/25/2012	7:42 AM	60.3	60.4	60.3	59	45.9	6	SW	0.1	10	WSW	60	59	58.7	30.19	0	0	0.003	0	59.1	56	43.4	57.6	10.45	0.0765	23	1	100	1
9/25/2012	7:43 AM	60.1	60.2	60.1	60	46.2	3	WSW	0.05	5	W	60.1	58.8	58.8	30.188	0	0	0.003	0	59.4	56	43.7	57.9	10.45	0.0764	23	1	100	1
9/25/2012	7:44 AM	60	60.1	60	60	46.1	2	WSW	0.03	5	SW	60	58.7	58.7	30.188	0	0	0.003	0	59.7	55	43.5	58.1	10.26	0.0764	24	1	100	1
9/25/2012	7:45 AM	60.1	60.1	60	60	46.2	3	S	0.05	5	SSW	60.1	58.8	58.8	30.189	0	0	0.003	0	59.9	55	43.7	58.3	10.25	0.0763	23	1	100	1
9/25/2012	7:46 AM	60	60.1	60	61	46.5	3	WSW	0.05	6	SW	60	58.8	58.8	30.19	0	0	0.003	0	60.2	55	44	58.6	10.25	0.0763	24	1	100	1
9/25/2012	7:47 AM	60	60.1	60	60	46.1	4	W	0.07	7	W	60	58.7	58.7	30.189	0	0	0.003	0	60.5	55	44.2	58.9	10.25	0.0762	23	1	100	1
9/25/2012	7:48 AM	60	60	60	60	46.1	4	WSW	0.07	7	WSW	60	58.7	58.7	30.187	0	0	0.003	0	60.7	54	43.9	59	10.15	0.0762	24	1	100	1
9/25/2012	7:49 AM	60	60	60	61	46.5	2	WSW	0.03	4	WSW	60	58.8	58.8	30.189	0	0	0.003	0	61	54	44.2	59.3	10.15	0.0762	23	1	100	1
9/25/2012	7:50 AM	60	60	60	61	46.5	2	WSW	0.03	4	WSW	60	58.8	58.8	30.188	0	0	0.003	0	61.3	54	44.5	59.6	10.15	0.0761	23	1	100	1
9/25/2012	7:51 AM	60	60	60	61	46.5	3	WSW	0.05	4	WSW	60	58.8	58.8	30.19	0	0	0.003	0	61.4	54	44.6	59.8	10.15	0.0761	24	1	100	1
9/25/2012	7:52 AM	60.1	60.1	60	61	46.6	4	WSW	0.07	9	WSW	60.1	58.9	58.9	30.19	0	0	0.003	0	61.8	54	45	60.2	10.15	0.076	23	1	100	1
9/25/2012	7:53 AM	60	60.1	60	60	46.1	5	W	0.08	10	SW	60	58.7	58.7	30.19	0	0	0.003	0	61.9	53	44.6	60.2	9.95	0.076	24	1	100	1
9/25/2012	7:54 AM	60	60	60	61	46.5	6	WSW	0.1	9	WSW	59.6	58.8	58.4	30.19	0	0	0.003	0	62.2	53	44.9	60.6	9.95	0.076	23	1	100	1
9/25/2012	7:55 AM	59.9	60	59.9	61	46.4	4	SSW	0.07	6	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	62.5	53	45.1	60.9	9.95	0.0759	23	1	100	1
9/25/2012	7:56 AM	59.9	59.9	59.9	61	46.4	5	W	0.08	9	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	62.7	53	45.3	61.1	9.95	0.0759	24	1	100	1
9/25/2012	7:57 AM	59.9	59.9	59.9	61	46.4	5	WSW	0.08	8	WSW	59.9	58.7	58.7	30.188	0	0	0.004	0	63	53	45.6	61.4	9.95	0.0758	23	1	100	1
9/25/2012	7:58 AM	59.8	59.9	59.8	61	46.3	5	WSW	0.08	9	WSW	59.8	58.6	58.6	30.188	0	0	0.004	0	63.2	53	45.8	61.6	9.95	0.0758	24	1	100	1
9/25/2012	7:59 AM	59.8	59.8	59.8	62	46.7	4	WSW	0.07	7	WSW	59.8	58.7	58.7	30.189	0	0	0.004	0	63.3	52	45.4	61.6	9.75	0.0758	23	1	100	1
9/25/2012	8:00 AM	59.8	59.8	59.8	62	46.7	5	S	0.08	8	WSW	59.8	58.7	58.7	30.187	0	0	0.004	0	63.6	52	45.6	62	9.75	0.0757	23	1	100	1
9/25/2012	8:01 AM	59.8	59.8	59.8	62	46.7	5	W	0.08	8	W	59.8	58.7	58.7	30.188	0	0	0.004	0	63.8	52	45.8	62.2	9.75	0.0757	24	1	100	1
9/25/2012	8:02 AM	59.8	59.8	59.8	62	46.7	3	WSW	0.05	6	WSW	59.8	58.7	58.7	30.19	0	0	0.004	0	64	52	46	62.4	9.75	0.0757	23	1	100	1
9/25/2012	8:03 AM	59.8	59.8	59.8	62	46.7	1	WSW	0.02	3	WSW	59.8	58.7	58.7	30.192	0	0	0.004	0	64.1	52	46.1	62.5	9.75	0.0757	24	1	100	1
9/25/2012	8:04 AM	59.9	59.9	59.9	63	47.3	2	WSW	0.03	5	WSW	59.9	58.8	58.8	30.192	0	0	0.004	0	64.5	52	46.5	63	9.75	0.0756	23	1	100	1
9/25/2012	8:05 AM	60	60	59.9	62	46.9	3	WSW	0.05	5	WSW	60	58.9	58.9	30.189	0	0	0.003	0	64.6	52	46.6	63.1	9.75	0.0756	24	1	100	1
9/25/2012	8:06 AM	60	60	60	62	46.9	1	WSW	0.02	3	WSW	60	58.9	58.9	30.187	0	0	0.003	0	64.8	51	46.2	63.2	9.55	0.0755	23	1	100	1
9/25/2012	8:07 AM	60.1	60.1	60	62	47	4	WSW	0.07	6	WSW	60.1	59	59	30.186	0	0	0.003	0	64.9	51	46.3	63.3	9.55	0.0755	23	1	100	1
9/25/2012	8:08 AM	60.2	60.2	60.1	62	47.1	3	WSW	0.05	7	WSW	60.2	59.1	59.1	30.187	0	0	0.003	0	65.3	51	46.7	63.7	9.54	0.0755	24	1	100	1
9/25/2012	8:09 AM	60.3	60.3	60.2	63	47.6	4	WSW	0.07	8	SSW	60.3	59.3	59.3	30.185	0	0	0.003	0	65.4	51	46.8	63.8	9.54	0.0754	23	1	100	1
9/25/2012	8:10 AM	60.3	60.3	60.3	62	47.2	4	SW	0.07	7	WSW	60.3	59.2	59.2	30.185	0	0	0.003	0	65.6	51	47	64.1	9.54	0.0754	23	1	100	1
9/25/2012	8:11 AM	60.2	60.3	60.2	62	47.1	3	WSW	0.05	5	WSW	60.2	59.1	59.1	30.184	0	0	0.003	0	65.8	50	46.6	64.2	9.33	0.0754	23	1	100	1
9/25/2012	8:12 AM	60.3	60.3	60.2	62	47.2	3	SSW	0.05	5	WSW	60.3	59.2	59.2	30.187	0	0	0.003	0	66.1	50	46.9	64.5	9.33	0.0753	22	1	95.7	1
9/25/2012	8:13 AM	60.3	60.3	60.3	62	47.2	3	WSW	0.05	5	W	60.3	59.2	59.2	30.186	0	0	0.003	0	66.2	50	47	64.6	9.33	0.0753	23	1	100	1
9/25/2012	8:14 AM	60.3	60.3	60.3	62	47.2	4	WSW	0.07	6	WSW	60.3	59.2	59.2	30.186	0	0	0.003	0	66.4	50	47.2	64.9	9.32	0.0753	22	1	95.7	1
9/25/2012	8:15 AM	60.4	60.4	60.3	62	47.3	3	WSW	0.05	5	W	60.4	59.3	59.3	30.186	0	0	0.003	0	66.6	50	47.4	65.1	9.32	0.0752	23	1	100	1
9/25/2012	8:16 AM	60.4	60.4	60.4	62	47.3	4	SSE	0.07	6	SSW	60.4	59.3	59.3	30.187	0	0	0.003	0	66.7	50	47.5	65.2	9.32	0.0752	23	1	100	1
9/25/2012	8:17 AM	60.4	60.4	60.4	62	47.3	4	WSW	0.07	7	WSW	60.4	59.3	59.3	30.187	0	0	0.003	0	66.9	50	47.6	65.5	9.31	0.0752	23	1	100	1
9/25/2012	8:18 AM	60.5	60.5	60.4	63	47.8	5	WSW	0.08	9	W	60.5	59.5	59.5	30.187	0	0	0.003	0	67	49	47.2	65.5	9.11	0.0752	23	1	100	1
9/25/2012	8:19 AM	60.5	60.5	60.5	62	47.4	4	WSW	0.07	7	WSW	60.5	59.4	59.4	30.186	0	0	0.003	0	67.2	49	47.4	65.7	9.11	0.0752	22	1	95.7	1
9/25/2012	8:20 AM	60.5	60.5	60.5	63	47.8	3	WSW	0.05	7	WSW	60.5	59.5	59.5	30.187	0	0	0.003	0	67.4	49	47.6	65.9	9.1	0.0751	24	1	100	1
9/25/2012	8:21 AM	60.5	60.5	60.5	63	47.8	2	SW	0.03	5	SW	60.5	59.5	59.5	30.188	0	0	0.003	0	67.5	49	47.7	66.1	9.1	0.0751	22	1	95.7	1
9/25/2012	8:22 AM	60.5	60.5	60.5	63	47.8	4	WSW	0.07	6	WSW	60.5	59.5	59.5	30.186	0	0	0.003	0	67.7	49	47.8	66.3	9.1	0.0751	24	1	100	1
9/25/2012	8:23 AM	60.5	60.5	60.5	63	47.8	3	WSW	0.05	6	WSW	60.5	59.5	59.5	30.187	0	0	0.003	0	67.9	49	48	66.5	9.09	0.075	22	1	95.7	1
9/25/2012	8:24 AM	60.5	60.5	60.5	63	47.8	6	WSW	0.1	8	W	60.2	59.5	59.2	30.187	0	0	0.003	0	68	49	48.1	66.6	9.09	0.075	22	1	95.7	1
9/25/2012	8:25 AM	60.5	60.6	60.5	63	47.8	5	W	0.08	8	W	60.5	59.5	59.5	30.188	0	0	0.003	0	68.2	49	48.3	66.8	9.09	0.075	24	1	100	1
9/25/2012	8:26 AM	60.5	60.6	60.5	63	47.8	7	WSW	0.12	12	WSW	59.8	59.5	58.8	30.186	0	0	0.003	0	68.4	49	48.5	67	9.08	0.075	22	1	95.7	1
9/25/2012	8:27 AM	60.5	60.5	60.5	63	47.8	7	SW	0.12	10	WSW	59.8	59.5	58.8	30.189	0	0	0.003	0	68.5	49	48.6	67.1	9.08	0.0749	24	1	100	1
9/25/2012	8:28 AM	60.5	60.5	60.5	63	47.8	5	WSW	0.08	8	WSW	60.5	59.5	59.5	30.189	0	0	0.003	0	68.5	48	48	66.9	8.88	0.075	23	1	100	1
9/25/2012	8:29 AM	60.4	60.5	60.4	64	48.2	5	WSW	0.08	11	WSW	60.4	59.5	59.5	30.186	0	0	0.003	0	68.7	48	48.2	67.1	8.88	0.0749	24	1	100	1
9/25/2012	8:30 AM	60.5	60.5	60.4	64	48.3	4	SW	0.07	8	W	60.5	59.6	59.6	30.187	0	0	0.003	0	68.9	48	48.4	67.3	8.87	0.0749	23	1	100	1
9/25/2012	8:31 AM	60.5	60.5	60.5	64	48.3	3	WSW	0.05	7	W	60.5	59.6	59.6	30.187	0	0	0.003	0	68.9	48	48.4	67.3	8.87	0.0749	23	1	100	1
9/25/2012	8:32 AM	60.6	60.6	60.6	64	48.4	7	WSW	0.12	10	W	59.9	59.7	59	30.187	0	0	0.003	0	69	48	48.5	67.4	8.87	0.0749	24	1	100	1
9/25/2012	8:33 AM	60.6	60.6	60.6	64	48.4	3	SW	0.05	4	SW	60.6	59.7	59.7	30.189	0	0	0.003	0	69.2	48	48.7	67.5	8.87	0.0748	23	1	100	1
9/25/2012	8:34 AM	60.7	60.7	60.6	63	48	4	SSW	0.07	7	W	60.7	59.7	59.7	30.189	0	0	0.003	0	69.2	48	48.7	67.5	8.87	0.0748	24	1	100	1
9/25/2012	8:35 AM	60.7	60.7	60.7	64	48.4	4	WSW	0.07	6	W	60.7	59.8	59.8	30.189	0	0	0.003	0	69.4	48	48.9	67.7	8.86	0.0748	23	1	100	1
9/25/2012	8:36 AM	60.8	60.8	60.7	64	48.5	4	WNW	0.07	8	W	60.8	59.9	59.9	30.189	0	0	0.003	0	69.4	48	48.9	67.7	8.86	0.0748	23	1	100	1
9/25/2012	8:37 AM	60.9	60.9	60.8	64	48.6	4	WSW	0.07	6	WNW	60.9	60	60	30.188	0	0	0.003	0	69.6	48	49	67.8	8.86	0.0748	24	1	100	1
9/25/2012	8:38 AM	60.9	60.9	60.9	64	48.6	3	WSW	0.05	6	WSW	60.9	60	60	30.188	0	0	0.003	0	69.7	48	49.1	67.9	8.86	0.0748	23	1	100	1
9/25/2012	8:39 AM	61	61	60.9	64	48.7	3	WSW	0.05	4	WSW	61	60.1	60.1	30.19	0	0	0.003	0	69.7	47	48.6	67.8	8.76	0.0748	23	1	100	1
9/25/2012	8:40 AM	61.1	61.1	61	64	48.8	3	WSW	0.05	5	WSW	61.1	60.2	60.2	30.192	0	0	0.003	0	69.9	47	48.7	67.9	8.75	0.0748	23	1	100	1
9/25/2012	8:41 AM	61.2	61.2	61.1	64	48.9	2	N	0.03	4	NNW	61.2	60.3	60.3	30.193	0	0	0.003	0	70.1	47	48.9	68.1	8.75	0.0747	24	1	100	1
9/25/2012	8:42 AM	61.2	61.2	61.2	63	48.5	7	W	0.12	11	SW	60.7	60.3	59.8	30.193	0	0	0.003	0	70.2	47	49	68.3	8.75	0.0747	23	1	100	1
9/25/2012	8:43 AM	61.2	61.2	61.2	63	48.5	4	SW	0.07	7	W	61.2	60.3	60.3	30.193	0	0	0.003	0	70.2	47	49	68.3	8.75	0.0747	23	1	100	1
9/25/2012	8:44 AM	61.3	61.3	61.2	64	49	3	WNW	0.05	7	WNW	61.3	60.4	60.4	30.192	0	0	0.003	0	70.4	47	49.2	68.5	8.75	0.0747	24	1	100	1
9/25/2012	8:45 AM	61.3	61.3	61.3	63	48.6	4	WSW	0.07	6	SW	61.3	60.4	60.4	30.189	0	0	0.003	0	70.6	47	49.4	68.8	8.75	0.0746	23	1	100	1
9/25/2012	8:46 AM	61.3	61.3	61.3	63	48.6	6	WSW	0.1	9	WSW	61.2	60.4	60.3	30.191	0	0	0.003	0	70.7	47	49.5	68.9	8.75	0.0746	24	1	100	1
9/25/2012	8:47 AM	61.2	61.3	61.2	63	48.5	5	WSW	0.08	7	WSW	61.2	60.3	60.3	30.192	0	0	0.003	0	70.7	47	49.5	68.9	8.75	0.0746	23	1	100	1
9/25/2012	8:48 AM	61.2	61.2	61.2	63	48.5	6	WSW	0.1	9	WSW	61	60.3	60.1	30.189	0	0	0.003	0	70.9	46	49.1	69.1	8.63	0.0746	23	1	100	1
9/25/2012	8:49 AM	61.1	61.2	61.1	64	48.8	2	WSW	0.03	6	WSW	61.1	60.2	60.2	30.192	0	0	0.003	0	71.1	46	49.3	69.3	8.63	0.0746	24	1	100	1
9/25/2012	8:50 AM	61.2	61.2	61.1	65	49.3	3	WSW	0.05	6	W	61.2	60.4	60.4	30.192	0	0	0.003	0	71.1	46	49.3	69.3	8.63	0.0746	23	1	100	1
9/25/2012	8:51 AM	61.3	61.3	61.2	64	49	5	WSW	0.08	8	W	61.3	60.4	60.4	30.191	0	0	0.003	0	71.2	46	49.4	69.5	8.63	0.0745	24	1	100	1
9/25/2012	8:52 AM	61.3	61.3	61.3	64	49	4	WSW	0.07	7	SW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.4	46	49.5	69.8	8.62	0.0745	23	1	100	1
9/25/2012	8:53 AM	61.3	61.3	61.3	63	48.6	4	WSW	0.07	7	WSW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.4	46	49.5	69.8	8.62	0.0745	23	1	100	1
9/25/2012	8:54 AM	61.3	61.3	61.3	64	49	4	WSW	0.07	6	WSW	61.3	60.4	60.4	30.192	0	0	0.003	0	71.6	46	49.7	70.1	8.62	0.0745	24	1	100	1
9/25/2012	8:55 AM	61.4	61.4	61.3	64	49.1	3	SW	0.05	7	WSW	61.4	60.6	60.6	30.193	0	0	0.002	0	71.6	46	49.7	70.1	8.62	0.0745	23	1	100	1
9/25/2012	8:56 AM	61.4	61.4	61.4	64	49.1	5	WSW	0.08	8	WSW	61.4	60.6	60.6	30.195	0	0	0.002	0	71.8	46	49.9	70.4	8.61	0.0745	23	1	100	1
9/25/2012	8:57 AM	61.4	61.4	61.4	63	48.7	6	W	0.1	9	WSW	61.3	60.5	60.4	30.195	0	0	0.002	0	71.9	46	50	70.6	8.61	0.0744	23	1	100	1
9/25/2012	8:58 AM	61.4	61.4	61.4	64	49.1	4	WSW	0.07	6	SW	61.4	60.6	60.6	30.198	0	0	0.002	0	71.9	46	50	70.6	8.61	0.0744	24	1	100	1
9/25/2012	8:59 AM	61.4	61.5	61.4	64	49.1	5	W	0.08	10	SW	61.4	60.6	60.6	30.197	0	0	0.002	0	72.1	46	50.2	70.8	8.61	0.0744	23	1	100	1
9/25/2012	9:00 AM	61.5	61.5	61.4	64	49.2	3	W	0.05	5	W	61.5	60.7	60.7	30.196	0	0	0.002	0	72.3	46	50.4	71.1	8.6	0.0744	23	1	100	1
9/25/2012	9:01 AM	61.6	61.6	61.5	64	49.3	2	W	0.03	6	N	61.6	60.8	60.8	30.195	0	0	0.002	0	72.3	46	50.4	71.1	8.6	0.0744	24	1	100	1
9/25/2012	9:02 AM	61.8	61.8	61.7	65	49.9	2	N	0.03	5	NW	61.8	61.1	61.1	30.197	0	0	0.002	0	72.4	46	50.4	71.3	8.6	0.0744	23	1	100	1
9/25/2012	9:03 AM	62	62	61.9	65	50.1	3	NW	0.05	4	NNW	62	61.3	61.3	30.198	0	0	0.002	0	72.4	46	50.4	71.3	8.6	0.0744	24	1	100	1
9/25/2012	9:04 AM	62.1	62.1	62	65	50.2	2	NNW	0.03	5	N	62.1	61.4	61.4	30.2	0	0	0.002	0	72.6	46	50.6	71.6	8.6	0.0743	23	1	100	1
9/25/2012	9:05 AM	62.1	62.2	62.1	65	50.2	1	NNW	0.02	3	NNW	62.1	61.4	61.4	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	22	1	95.7	1
9/25/2012	9:06 AM	62.2	62.2	62.1	65	50.3	3	NNW	0.05	4	W	62.2	61.5	61.5	30.2	0	0	0.002	0	72.8	46	50.8	71.9	8.59	0.0743	24	1	100	1
9/25/2012	9:07 AM	62.3	62.3	62.2	64	50	2	WSW	0.03	3	WSW	62.3	61.5	61.5	30.199	0	0	0.002	0	73	46	51	72.2	8.59	0.0743	22	1	95.7	1
9/25/2012	9:08 AM	62.3	62.3	62.3	65	50.4	2	N	0.03	7	WNW	62.3	61.6	61.6	30.202	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	24	1	100	1
9/25/2012	9:09 AM	62.4	62.4	62.4	64	50.1	5	W	0.08	9	W	62.4	61.6	61.6	30.201	0	0	0.002	0	73.1	46	51.1	72.3	8.59	0.0742	22	1	95.7	1
9/25/2012	9:10 AM	62.5	62.5	62.4	64	50.2	4	NNE	0.07	7	NNW	62.5	61.8	61.8	30.201	0	0	0.002	0	73.3	46	51.3	72.6	8.58	0.0742	24	1

Meteorological Data
Equity IRM

9/25/2012	10:31 AM	64.3	64.3	64.2	58	49.2	4	SW	0.07	5	WSW	64.3	63.3	63.3	30.192	0	0	0	0	80.1	39	52.9	79	7.45	0.0732	23	1	100	1
9/25/2012	10:32 AM	64.4	64.4	64.3	58	49.3	3	WSW	0.05	7	W	64.4	63.4	63.4	30.19	0	0	0	0	80.3	39	53.1	79.2	7.44	0.0732	24	1	100	1
9/25/2012	10:33 AM	64.4	64.5	64.4	57	48.8	3	WSW	0.05	5	W	64.4	63.3	63.3	30.189	0	0	0	0	80.3	39	53.1	79.2	7.44	0.0732	23	1	100	1
9/25/2012	10:34 AM	64.5	64.5	64.5	57	48.9	4	SSE	0.07	6	S	64.5	63.4	63.4	30.19	0	0	0	0	80.5	39	53.3	79.4	7.44	0.0731	23	1	100	1
9/25/2012	10:35 AM	64.5	64.5	64.5	57	48.9	6	WSW	0.1	9	W	64.5	63.4	63.4	30.19	0	0	0	0	80.6	39	53.4	79.5	7.44	0.0731	24	1	100	1
9/25/2012	10:36 AM	64.5	64.5	64.5	57	48.9	3	SW	0.05	5	NNE	64.5	63.4	63.4	30.189	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	23	1	100	1
9/25/2012	10:37 AM	64.5	64.5	64.5	56	48.4	4	SW	0.07	8	W	64.5	63.3	63.3	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	24	1	100	1
9/25/2012	10:38 AM	64.4	64.5	64.4	56	48.4	6	WSW	0.1	13	W	64.4	63.2	63.2	30.187	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	23	1	100	1
9/25/2012	10:39 AM	64.3	64.4	64.3	56	48.3	4	SW	0.07	13	W	64.3	63.1	63.1	30.186	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:40 AM	64.3	64.3	64.3	57	48.7	3	S	0.05	4	S	64.3	63.2	63.2	30.184	0	0	0	0	81	38	53	79.8	7.25	0.0731	24	1	100	1
9/25/2012	10:41 AM	64.3	64.3	64.3	57	48.7	2	WSW	0.03	4	WSW	64.3	63.2	63.2	30.183	0	0	0	0	81	38	53	79.8	7.25	0.0731	23	1	100	1
9/25/2012	10:42 AM	64.4	64.4	64.3	58	49.3	1	WSW	0.02	3	WSW	64.4	63.4	63.4	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:43 AM	64.5	64.5	64.4	57	48.9	3	WSW	0.05	6	WSW	64.5	63.4	63.4	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:44 AM	64.7	64.7	64.6	56	48.6	3	WSW	0.05	6	WSW	64.7	63.5	63.5	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:45 AM	64.9	64.9	64.7	57	49.3	2	W	0.03	6	WNW	64.9	63.9	63.9	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:46 AM	65	65	64.9	56	48.9	4	WSW	0.07	7	WSW	65	63.9	63.9	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:47 AM	65	65	65	56	48.9	2	NW	0.03	5	NW	65	63.9	63.9	30.183	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:48 AM	65.1	65.1	65	56	49	2	SW	0.03	6	SW	65.1	64	64	30.182	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	23	1	100	1
9/25/2012	10:49 AM	65.2	65.2	65.2	55	48.6	6	WSW	0.1	10	WSW	65.2	64	64	30.185	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	24	1	100	1
9/25/2012	10:50 AM	65.2	65.3	65.2	54	48.1	5	WSW	0.08	10	WSW	65.2	63.9	63.9	30.182	0	0	0	0	80.8	37	52.1	79.5	7.13	0.0731	22	1	95.7	1
9/25/2012	10:51 AM	65.2	65.2	65.2	55	48.6	4	W	0.07	6	W	65.2	64	64	30.184	0	0	0	0	80.8	38	52.8	79.6	7.25	0.0731	22	1	95.7	1
9/25/2012	10:52 AM	65.1	65.2	65.1	54	48	5	W	0.08	9	WSW	65.1	63.8	63.8	30.184	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	24	1	100	1
9/25/2012	10:53 AM	65	65.1	65	54	47.9	6	WSW	0.1	8	W	65	63.7	63.7	30.183	0	0	0	0	80.6	38	52.6	79.4	7.25	0.0731	22	1	95.7	1
9/25/2012	10:54 AM	64.9	65	64.9	54	47.9	5	W	0.08	9	SW	64.9	63.6	63.6	30.183	0	0	0	0	80.6	37	51.9	79.3	7.14	0.0731	24	1	100	1
9/25/2012	10:55 AM	64.9	64.9	64.9	54	47.9	6	W	0.1	10	WSW	64.9	63.6	63.6	30.184	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	22	1	95.7	1
9/25/2012	10:56 AM	64.8	64.9	64.8	55	48.2	3	SSW	0.05	4	S	64.8	63.6	63.6	30.182	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	24	1	100	1
9/25/2012	10:57 AM	64.9	64.9	64.8	55	48.3	5	SSW	0.08	9	W	64.9	63.7	63.7	30.18	0	0	0	0	80.5	37	51.8	79.2	7.14	0.0732	22	1	95.7	1
9/25/2012	10:58 AM	64.9	64.9	64.9	54	47.9	5	WSW	0.08	7	SW	64.9	63.6	63.6	30.182	0	0	0	0	80.3	37	51.7	79	7.14	0.0732	23	1	100	1
9/25/2012	10:59 AM	65	65	65	54	47.9	4	W	0.07	7	WNW	65	63.7	63.7	30.181	0	0	0	0	80.3	37	51.7	79	7.14	0.0732	23	1	100	1
9/25/2012	11:00 AM	65.1	65.1	65	55	48.5	3	W	0.05	7	WSW	65.1	63.9	63.9	30.181	0	0	0	0	80.1	37	51.5	78.8	7.15	0.0732	22	1	95.7	1
9/25/2012	11:01 AM	65.3	65.3	65.2	54	48.2	4	WSW	0.07	7	WSW	65.3	64	64	30.18	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	24	1	100	1
9/25/2012	11:02 AM	65.4	65.4	65.3	54	48.3	5	WSW	0.08	7	NW	65.4	64.1	64.1	30.18	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	22	1	95.7	1
9/25/2012	11:03 AM	65.4	65.4	65.4	54	48.3	5	WSW	0.08	9	NW	65.4	64.1	64.1	30.179	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:04 AM	65.6	65.6	65.5	54	48.5	3	N	0.05	6	WNW	65.6	64.4	64.4	30.179	0	0	0	0	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:05 AM	65.8	65.8	65.6	55	49.2	2	W	0.03	5	NNW	65.8	64.7	64.7	30.18	0	0	0	0.001	80.1	38	52.2	78.9	7.25	0.0732	23	1	100	1
9/25/2012	11:06 AM	65.9	65.9	65.7	54	48.8	2	WSW	0.03	5	WSW	65.9	64.7	64.7	30.179	0	0	0	0.001	80.1	38	52.2	78.9	7.25	0.0732	24	1	100	1
9/25/2012	11:07 AM	66.1	66.1	65.9	54	49	2	NW	0.03	5	W	66.1	64.9	64.9	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	23	1	100	1
9/25/2012	11:08 AM	66.2	66.2	66.1	52	48	4	WSW	0.07	7	WSW	66.2	64.8	64.8	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	24	1	100	1
9/25/2012	11:09 AM	66.2	66.2	66.2	53	48.6	4	W	0.07	6	W	66.2	64.9	64.9	30.179	0	0	0	0.001	80.3	38	52.4	79.1	7.25	0.0732	22	1	95.7	1
9/25/2012	11:10 AM	66.3	66.3	66.2	52	48.1	3	NW	0.05	6	W	66.3	65	65	30.176	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:11 AM	66.4	66.4	66.3	51	47.7	4	SSW	0.07	7	W	66.4	65	65	30.178	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:12 AM	66.5	66.5	66.4	50	47.3	5	WSW	0.08	8	W	66.5	65	65	30.174	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:13 AM	66.5	66.5	66.5	51	47.8	3	WSW	0.05	5	WNW	66.5	65.1	65.1	30.176	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:14 AM	66.6	66.6	66.5	51	47.9	4	W	0.07	6	WSW	66.6	65.2	65.2	30.174	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:15 AM	66.7	66.7	66.6	52	48.5	5	WSW	0.08	11	WSW	66.7	65.4	65.4	30.173	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:16 AM	66.7	66.7	66.7	50	47.5	6	WSW	0.1	9	WSW	66.7	65.2	65.2	30.175	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	24	1	100	1
9/25/2012	11:17 AM	66.6	66.7	66.6	51	47.9	4	SW	0.07	6	W	66.6	65.2	65.2	30.173	0	0	0	0.001	80.5	37	51.8	79.2	7.14	0.0731	23	1	100	1
9/25/2012	11:18 AM	66.7	66.7	66.6	50	47.5	3	SW	0.05	5	SW	66.7	65.2	65.2	30.174	0	0	0	0.001	80.6	37	51.9	79.3	7.14	0.0731	24	1	100	1
9/25/2012	11:19 AM	66.7	66.7	66.7	51	48	5	W	0.08	8	SW	66.7	65.3	65.3	30.172	0	0	0	0.001	80.6	37	51.9	79.3	7.14	0.0731	23	1	100	1
9/25/2012	11:20 AM	66.7	66.7	66.7	51	48	5	N	0.08	9	NW	66.7	65.3	65.3	30.173	0	0	0	0.001	80.8	37	52.1	79.5	7.13	0.0731	23	1	100	1
9/25/2012	11:21 AM	66.8	66.8	66.7	50	47.6	5	WSW	0.08	8	WSW	66.8	65.4	65.4	30.174	0	0	0	0.001	80.8	36	51.4	79.4	6.92	0.0731	23	1	100	1
9/25/2012	11:22 AM	66.7	66.8	66.7	50	47.5	4	WNW	0.07	9	NW	66.7	65.2	65.2	30.174	0	0	0	0.001	81	36	51.5	79.6	6.91	0.0731	23	1	100	1
9/25/2012	11:23 AM	66.8	66.8	66.8	51	48.1	4	WSW	0.07	7	WSW	66.8	65.5	65.5	30.173	0	0	0	0.001	81	37	52.3	79.7	7.13	0.0731	24	1	100	1
9/25/2012	11:24 AM	66.8	66.8	66.7	50	47.6	3	WNW	0.05	5	WNW	66.8	65.4	65.4	30.173	0	0	0	0.001	81.2	37	52.4	79.9	7.13	0.073	23	1	100	1
9/25/2012	11:25 AM	66.8	66.8	66.8	50	47.6	2	WSW	0.03	4	WSW	66.8	65.4	65.4	30.171	0	0	0	0.001	81.2	37	52.4	79.9	7.13	0.073	24	1	100	1
9/25/2012	11:26 AM	66.9	66.9	66.8	50	47.6	3	SW	0.05	5	W	66.9	65.5	65.5	30.172	0	0	0	0.001	81.4	37	52.6	80.2	7.12	0.073	23	1	100	1
9/25/2012	11:27 AM	66.9	66.9	66.9	50	47.6	3	W	0.05	5	SW	66.9	65.5	65.5	30.17	0	0	0	0.001	81.6	37	52.8	80.4	7.12	0.0729	23	1	100	1
9/25/2012	11:28 AM	67	67	66.9	51	48.3	4	SW	0.07	5	NNW	67	65.7	65.7	30.17	0	0	0	0.001	81.6	37	52.8	80.4	7.12	0.0729	24	1	100	1
9/25/2012	11:29 AM	67	67	67	51	48.3	4	WNW	0.07	5	SSW	67	65.7	65.7	30.17	0	0	0	0.001	81.8	37	53	80.7	7.11	0.0729	23	1	100	1
9/25/2012	11:30 AM	67.1	67.1	67	51	48.4	3	WNW	0.05	5	WSW	67.1	65.8	65.8	30.166	0	0	0	0.001	82	37	53.2	80.9	7.11	0.0729	24	1	100	1
9/25/2012	11:31 AM	67.1	67.1	67.1	51	48.4	3	SW	0.05	5	SW	67.1	65.8	65.8	30.168	0	0	0	0.001	82.1	37	53.2	81.1	7.11	0.0729	23	1	100	1
9/25/2012	11:32 AM	67.2	67.2	67.2	50	47.9	3	NW	0.05	5	NW	67.2	65.8	65.8	30.167	0	0	0	0.002	82.3	37	53.4	81.3	7.1	0.0728	23	1	100	1
9/25/2012	11:33 AM	67.3	67.3	67.2	50	48	3	NNE	0.05	7	WNW	67.3	65.9	65.9	30.166	0	0	0	0.002	82.3	36	52.7	81.2	6.86	0.0728	24	1	100	1
9/25/2012	11:34 AM	67.4	67.4	67.3	51	48.6	3	WSW	0.05	7	NNW	67.4	66.1	66.1	30.167	0	0	0	0.002	82.5	37	53.6	81.6	7.1	0.0728	23	1	100	1
9/25/2012	11:35 AM	67.6	67.6	67.4	51	48.8	2	SW	0.03	6	WNW	67.6	66.4	66.4	30.164	0	0	0	0.002	82.7	37	53.8	81.8	7.1	0.0727	24	1	100	1
9/25/2012	11:36 AM	67.6	67.6	67.6	50	48.3	4	WNW	0.07	7	W	67.6	66.3	66.3	30.165	0	0	0	0.002	82.9	36	53.2	81.9	6.83	0.0727	23	1	100	1
9/25/2012	11:37 AM	67.7	67.7	67.6	50	48.4	3	SSW	0.05	6	NNE	67.7	66.4	66.4	30.165	0	0	0	0.002	82.9	36	53.2	81.9	6.83	0.0727	24	1	100	1
9/25/2012	11:38 AM	67.8	67.8	67.7	50	48.5	3	W	0.05	5	W	67.8	66.5	66.5	30.167	0	0	0	0.002	83.1	36	53.4	82.1	6.83	0.0727	22	1	95.7	1
9/25/2012	11:39 AM	67.8	67.8	67.7	49	47.9	4	WSW	0.07	8	SW	67.8	66.4	66.4	30.166	0	0	0	0.002	83.3	36	53.6	82.4	6.82	0.0727	23	1	100	1
9/25/2012	11:40 AM	67.8	67.8	67.8	50	48.5	3	SW	0.05	4	WNW	67.8	66.5	66.5	30.167	0	0	0	0.002	83.3	36	53.6	82.4	6.82	0.0727	23	1	100	1
9/25/2012	11:41 AM	67.8	67.8	67.8	49	47.9	2	WSW	0.03	4	WSW	67.8	66.4	66.4	30.166	0	0	0	0.002	83.5	36	53.7	82.7	6.81	0.0726	23	1	100	1
9/25/2012	11:42 AM	67.8	67.8	67.8	47	46.8	3	SW	0.05	4	SW	67.8	66.2	66.2	30.162	0	0	0	0.002	83.5	36	53.7	82.7	6.81	0.0726	23	1	100	1
9/25/2012	11:43 AM	67.9	67.9	67.8	48	47.5	4	WSW	0.07	6	WSW	67.9	66.4	66.4	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	22	1	95.7	1
9/25/2012	11:44 AM	67.9	67.9	67.9	48	47.5	2	WSW	0.03	4	WSW	67.9	66.4	66.4	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	23	1	100	1
9/25/2012	11:45 AM	68	68	67.9	48	47.6	3	NW	0.05	7	NW	68	66.5	66.5	30.163	0	0	0	0.002	83.7	35	53.1	82.8	6.7	0.0726	23	1	100	1
9/25/2012	11:46 AM	68.1	68.1	68	50	48.8	3	NNW	0.05	6	NNW	68.1	66.8	66.8	30.163	0	0	0	0.002	83.9	35	53.3	83.2	6.69	0.0726	23	1	100	1
9/25/2012	11:47 AM	68.2	68.2	68.1	48	47.8	4	SW	0.07	7	N	68.2	66.7	66.7	30.164	0	0	0	0.002	83.9	35	53.3	83.2	6.69	0.0726	22	1	95.7	1
9/25/2012	11:48 AM	68.3	68.3	68.2	48	47.8	4	N	0.07	5	N	68.3	66.8	66.8	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:49 AM	68.4	68.4	68.3	48	47.9	1	N	0.02	3	NNE	68.4	66.9	66.9	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:50 AM	68.5	68.5	68.4	48	48	4	W	0.07	6	W	68.5	66.9	66.9	30.165	0	0	0	0.002	84.1	35	53.5	83.4	6.69	0.0726	23	1	100	1
9/25/2012	11:51 AM	68.5	68.5	68.5	48	48	1	SW	0.02	3	SW	68.5	66.9	66.9	30.166	0	0	0	0.002	84.3	35	53.7	83.6	6.68	0.0725	22	1	95.7	1
9/25/2012	11:52 AM	68.7	68.7	68.5	49	48.8	2	NE	0.03	4	NE	68.7	67.2	67.2	30.165	0	0	0	0.003	84.3	35	53.7	83.6	6.68	0.0725	24	1	100	1
9/25/2012	11:53 AM	68.9	68.9	68.7	48	48.4	3	NNW	0.05	9	WSW	68.9	67.3	67.3	30.165	0	0	0	0.003	84.5	35	53.8	83.8	6.67	0.0725	23	1	100	1
9/25/2012	11:54 AM	68.9	68.9	68.9	47	47.8	5	W	0.08	8	W	68.9	67.2	67.2	30.166	0	0	0	0.003	84.5	35	53.8	83.8	6.67	0.0725	24	1	100	1
9/25/2012	11:55 AM	68.9	69	68.9	47	47.8	4	SW	0.07	7	WSW	68.9	67.2	67.2	30.165	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:56 AM	69	69	68.9	47	47.9	3	SW	0.05	5	WNW	69	67.3	67.3	30.166	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:57 AM	69	69	69	47	47.9	2	SSW	0.03	5	SSW	69	67.3	67.3	30.166	0	0	0	0.003	84.7	35	54	83.9	6.66	0.0725	23	1	100	1
9/25/2012	11:58 AM	69	69	69	47	47.9	3	SW	0.05	6	SW	69	67.3	67.3	30.166	0	0	0	0.003	84.9	35	54.2	84.1	6.65	0.0724	23	1	100	1
9/25/2012	11:59 AM	69.1	69.1	69.1	47	48	3	WSW	0.05	7	SW	69.1	67.4	67.4	30.166	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	12:00 PM	69.2	69.2	69.1	47	48.1	4	W	0.07	11	WNW	69.2	67.4	67.4	30.167	0	0	0	0.003	84.9	35	54.2	84.1	6.65	0.0724	23	1	100	1
9/25/2012	12:01 PM	69.2	69.2	69.2	48	48.7	4	SW	0.07	8	WSW	69.2	67.5	67.5	30.165	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	12:02 PM	69.2	69.2	69.2	46	47.5	5	W	0.08	7	W	69.2	67.3	67.3	30.163	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	23	1	100	1
9/25/2012	12:03 PM	69.2	69.2	69.2	47	48.1	6	WSW	0.1	10	W	69.2	67.4	67.4	30.166	0	0	0	0.003	84.9	34	53.4	83.9	6.45	0.0725	23	1	100	1
9/25/2012	12:04 PM	69.1	69.1	69.1	46	47.4	4	NE	0.07	10	WNW	69.1	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:05 PM	69.1	69.1	69	47	48	3	NNE	0.05	5	NNW	69.1	67.4	67.4	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:06 PM	69.1	69.1	69.1	47	48	4	WSW	0.07	5	NNW	69.1	67.4	67.4	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:07 PM	69.2	69.2	69.1	46	47.5	4	SSW	0.07	8	SW	69.2	67.3	67.3	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:08 PM	69.3	69.3	69.2	47	48.2	3	ENE	0.05	7	N	69.3	67.5	67.5	30.162	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:09 PM	69.5	69.5	69.3	49	49.5	2	NE	0.03	4	NE	69.5	67.9	67.9	30.163	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	12:10 PM	69.6	69.6	69.5	49	49.6	5	SW	0.08	8	W	69.6	67.9	67.9	30.161	0	0	0	0.003	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	12:11 PM	69.6	69.6	69.6	49	49.6	5	WSW	0.08

Meteorological Data
Equity IRM

9/25/2012	1:31 PM	71.6	71.6	71.6	47	50.3	7	SSW	0.12	12	S	71.6	70.2	70.2	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	1:32 PM	71.7	71.7	71.6	46	49.8	6	SSE	0.1	13	S	71.7	70.2	70.2	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	22	1	95.7	1
9/25/2012	1:33 PM	71.7	71.7	71.7	46	49.8	8	SSW	0.13	11	S	71.2	70.2	69.7	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	24	1	100	1
9/25/2012	1:34 PM	71.9	71.9	71.8	46	50	5	W	0.08	7	SW	71.9	70.6	70.6	30.154	0	0	0	0.005	85.1	34	53.6	84.1	6.45	0.0724	23	1	100	1
9/25/2012	1:35 PM	71.9	71.9	71.8	47	50.6	2	WSW	0.03	6	S	71.9	70.6	70.6	30.152	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	24	1	100	1
9/25/2012	1:36 PM	72	72	72	46	50.1	5	SSW	0.08	9	S	72	70.7	70.7	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:37 PM	72.1	72.1	72.1	45	49.6	6	SW	0.1	8	SSW	72.1	70.8	70.8	30.154	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0724	23	1	100	1
9/25/2012	1:38 PM	72.1	72.1	72.1	45	49.6	5	WSW	0.08	10	NNW	72.1	70.8	70.8	30.158	0	0	0	0.005	84.9	34	53.4	83.9	6.45	0.0725	24	1	100	1
9/25/2012	1:39 PM	72.2	72.2	72.1	45	49.7	4	SW	0.07	6	SW	72.2	70.9	70.9	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:40 PM	72.1	72.2	72.1	44	49	7	WSW	0.12	15	WNW	72.1	70.7	70.7	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	24	1	100	1
9/25/2012	1:41 PM	72	72.1	72	44	48.9	7	W	0.12	12	WNW	72	70.5	70.5	30.158	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:42 PM	71.9	72	71.9	44	48.8	7	WSW	0.12	13	WSW	71.9	70.4	70.4	30.156	0	0	0	0.005	84.7	34	53.2	83.7	6.46	0.0725	23	1	100	1
9/25/2012	1:43 PM	71.6	71.9	71.6	43	47.9	10	WSW	0.17	17	WSW	69.5	69.8	67.7	30.151	0	0	0	0.005	84.7	33	52.4	83.5	6.36	0.0725	24	1	100	1
9/25/2012	1:44 PM	71.5	71.6	71.5	44	48.4	6	W	0.1	17	WSW	71.5	69.8	69.8	30.151	0	0	0	0.005	84.5	33	52.2	83.3	6.37	0.0725	23	1	100	1
9/25/2012	1:45 PM	71.6	71.6	71.5	44	48.5	5	S	0.08	9	WSW	71.6	69.9	69.9	30.154	0	0	0	0.005	84.5	33	52.2	83.3	6.37	0.0725	24	1	100	1
9/25/2012	1:46 PM	71.7	71.7	71.6	44	48.6	6	W	0.1	10	WNW	71.7	70	70	30.155	0	0	0	0.005	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/25/2012	1:47 PM	71.7	71.7	71.7	43	48	8	WSW	0.13	14	WSW	71.2	69.9	69.4	30.155	0	0	0	0.005	84.3	34	52.9	83.4	6.48	0.0725	24	1	100	1
9/25/2012	1:48 PM	71.7	71.7	71.7	43	48	4	WSW	0.07	7	WNW	71.7	69.9	69.9	30.154	0	0	0	0.005	84.3	33	52.1	83.2	6.38	0.0726	23	1	100	1
9/25/2012	1:49 PM	71.8	71.8	71.7	44	48.7	5	S	0.08	12	WNW	71.8	70.2	70.2	30.151	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/25/2012	1:50 PM	71.9	71.9	71.8	43	48.2	4	SE	0.07	8	SSE	71.9	70.3	70.3	30.15	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	24	1	100	1
9/25/2012	1:51 PM	72	72	71.9	43	48.3	5	S	0.08	10	SW	72	70.4	70.4	30.151	0	0	0	0.005	84.1	33	51.9	83	6.39	0.0726	23	1	100	1
9/25/2012	1:52 PM	72.1	72.1	72	44	49	3	S	0.05	5	SE	72.1	70.7	70.7	30.151	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/25/2012	1:53 PM	72.1	72.1	72.1	43	48.4	8	WSW	0.13	16	W	71.6	70.6	70.1	30.153	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	23	1	100	1
9/25/2012	1:54 PM	72	72.1	72	43	48.3	7	SW	0.12	14	SW	72	70.4	70.4	30.149	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	22	1	95.7	1
9/25/2012	1:55 PM	72	72	72	44	48.9	7	W	0.12	11	W	72	70.5	70.5	30.151	0	0	0	0.005	83.9	33	51.7	82.8	6.39	0.0726	24	1	100	1
9/25/2012	1:56 PM	71.9	72	71.9	44	48.8	7	WSW	0.12	10	W	71.9	70.4	70.4	30.15	0	0	0	0.005	83.7	33	51.5	82.5	6.4	0.0727	21	1	91.3	1
9/25/2012	1:57 PM	72	72	71.9	43	48.3	8	WNW	0.13	13	W	71.5	70.4	69.9	30.148	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	24	1	100	1
9/25/2012	1:58 PM	72	72	71.9	44	48.9	5	SSW	0.08	10	W	72	70.5	70.5	30.147	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	22	1	95.7	1
9/25/2012	1:59 PM	72.1	72.1	72	44	49	6	S	0.1	11	W	72.1	70.7	70.7	30.148	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	23	1	100	1
9/25/2012	2:00 PM	72.2	72.2	72.1	44	49.1	7	WSW	0.12	10	W	72.2	70.8	70.8	30.144	0	0	0	0.005	83.7	34	52.3	82.7	6.5	0.0726	22	1	95.7	1
9/25/2012	2:01 PM	72.2	72.2	72.1	43	48.5	6	WSW	0.1	8	SW	72.2	70.7	70.7	30.146	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0727	22	1	95.7	1
9/25/2012	2:02 PM	72.3	72.3	72.2	44	49.2	4	S	0.07	9	SSE	72.3	71	71	30.144	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	24	1	100	1
9/25/2012	2:03 PM	72.4	72.4	72.3	44	49.3	5	SSW	0.08	10	W	72.4	71.1	71.1	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	22	1	95.7	1
9/25/2012	2:04 PM	72.6	72.6	72.4	43	48.8	7	SSE	0.12	11	SW	72.6	71.3	71.3	30.142	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	24	1	100	1
9/25/2012	2:05 PM	72.7	72.7	72.6	43	48.9	7	SSE	0.12	11	SSE	72.7	71.5	71.5	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	22	1	95.7	1
9/25/2012	2:06 PM	72.9	72.9	72.8	42	48.5	6	SSE	0.1	13	WSW	72.9	71.7	71.7	30.143	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	23	1	100	1
9/25/2012	2:07 PM	72.9	72.9	72.9	42	48.5	8	S	0.13	13	S	72.4	71.7	71.2	30.141	0	0	0	0.005	83.5	34	52.2	82.4	6.51	0.0726	23	1	100	1
9/25/2012	2:08 PM	72.8	72.9	72.8	42	48.4	8	SSW	0.13	13	SSW	72.3	71.5	71	30.141	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	23	1	100	1
9/25/2012	2:09 PM	72.7	72.8	72.7	42	48.3	7	SW	0.12	17	SSE	72.7	71.4	71.4	30.143	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	24	1	100	1
9/25/2012	2:10 PM	72.6	72.7	72.6	42	48.2	8	SSE	0.13	13	WSW	72.1	71.2	70.7	30.142	0	0	0	0.005	83.3	34	52	82.1	6.52	0.0727	23	1	100	1
9/25/2012	2:11 PM	72.5	72.6	72.5	42	48.1	7	SSE	0.12	13	W	72.5	71.1	71.1	30.145	0	0	0	0.005	83.3	33	51.2	81.9	6.42	0.0727	23	1	100	1
9/25/2012	2:12 PM	72.5	72.5	72.5	43	48.7	5	SSW	0.08	8	SW	72.5	71.2	71.2	30.143	0	0	0	0.005	83.1	33	51	81.6	6.43	0.0727	24	1	100	1
9/25/2012	2:13 PM	72.5	72.5	72.5	43	48.7	8	S	0.13	12	S	72	71.2	70.7	30.141	0	0	0	0.005	83.1	34	51.8	81.8	6.53	0.0727	23	1	100	1
9/25/2012	2:14 PM	72.5	72.5	72.5	43	48.7	4	WSW	0.07	7	WNW	72.5	71.2	71.2	30.145	0	0	0	0.005	83.1	34	51.8	81.8	6.53	0.0727	24	1	100	1
9/25/2012	2:15 PM	72.5	72.5	72.5	43	48.7	9	W	0.15	14	SSW	71.1	71.2	69.8	30.143	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:16 PM	72.4	72.5	72.4	44	49.3	6	W	0.1	11	NW	72.4	71.1	71.1	30.145	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	24	1	100	1
9/25/2012	2:17 PM	72.5	72.5	72.4	44	49.3	4	SSW	0.07	7	W	72.5	71.3	71.3	30.143	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:18 PM	72.6	72.6	72.5	45	50	5	WNW	0.08	9	WNW	72.6	71.5	71.5	30.142	0	0	0	0.005	82.9	34	51.6	81.5	6.53	0.0727	23	1	100	1
9/25/2012	2:19 PM	72.6	72.6	72.6	44	49.4	5	WSW	0.08	9	WSW	72.6	71.4	71.4	30.141	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	24	1	100	1
9/25/2012	2:20 PM	72.6	72.6	72.6	43	48.8	8	WSW	0.13	12	WSW	72.1	71.3	70.8	30.138	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:21 PM	72.5	72.5	72.5	44	49.3	5	SSW	0.08	8	WSW	72.5	71.3	71.3	30.141	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	24	1	100	1
9/25/2012	2:22 PM	72.5	72.5	72.4	44	49.3	4	WNW	0.07	6	WNW	72.5	71.3	71.3	30.142	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:23 PM	72.6	72.6	72.5	45	50	6	WNW	0.1	9	S	72.6	71.5	71.5	30.142	0	0	0	0.005	82.7	34	51.5	81.3	6.54	0.0728	23	1	100	1
9/25/2012	2:24 PM	72.6	72.7	72.6	44	49.4	4	S	0.07	9	SW	72.6	71.4	71.4	30.145	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	24	1	100	1
9/25/2012	2:25 PM	72.8	72.8	72.6	44	49.6	6	SSW	0.1	11	S	72.8	71.7	71.7	30.144	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	23	1	100	1
9/25/2012	2:26 PM	72.9	72.9	72.8	45	50.3	5	S	0.08	10	SSW	72.9	71.9	71.9	30.141	0	0	0	0.005	82.5	35	52.1	81.3	6.75	0.0728	24	1	100	1
9/25/2012	2:27 PM	73.1	73.1	73	44	49.9	8	SSE	0.13	16	SSE	72.6	72.2	71.7	30.144	0	0	0	0.006	82.5	36	52.9	81.4	6.85	0.0728	23	1	100	1
9/25/2012	2:28 PM	73.2	73.2	73.1	44	50	6	WSW	0.1	11	WSW	73.2	72.3	72.3	30.142	0	0	0	0.006	82.5	36	52.9	81.4	6.85	0.0728	23	1	100	1
9/25/2012	8:06 PM	67.7	67.7	67.6	63	54.6	6	S	0.1	15	WSW	67.7	67.6	67.6	30.142	0	0	0	0.002	65.4	47	44.6	63.4	8.84	0.0754	24	1	100	1
9/25/2012	8:07 PM	67.6	67.6	67.6	63	54.6	4	WNW	0.07	5	SW	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:08 PM	67.6	67.6	67.6	63	54.6	5	SSE	0.08	9	S	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/25/2012	8:09 PM	67.6	67.6	67.6	63	54.6	4	SSE	0.07	8	NNW	67.6	67.5	67.5	30.142	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:10 PM	67.6	67.6	67.6	63	54.6	3	W	0.05	5	WNW	67.6	67.5	67.5	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:11 PM	67.5	67.6	67.5	63	54.5	3	ESE	0.05	5	SSE	67.5	67.4	67.4	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	23	1	100	1
9/25/2012	8:12 PM	67.5	67.5	67.5	63	54.5	4	SW	0.07	8	S	67.5	67.4	67.4	30.141	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	22	1	95.7	1
9/25/2012	8:13 PM	67.5	67.5	67.5	64	54.9	4	S	0.07	6	SW	67.5	67.5	67.5	30.14	0	0	0	0.002	65.3	47	44.5	63.3	8.84	0.0754	24	1	100	1
9/25/2012	8:14 PM	67.5	67.5	67.5	64	54.9	4	S	0.07	6	WSW	67.5	67.5	67.5	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:15 PM	67.4	67.5	67.4	63	54.4	4	SSW	0.07	7	S	67.4	67.3	67.3	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:16 PM	67.4	67.5	67.4	64	54.8	4	SSW	0.07	8	WSW	67.4	67.4	67.4	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:17 PM	67.4	67.4	67.4	64	54.8	3	W	0.05	7	SSE	67.4	67.4	67.4	30.141	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:18 PM	67.4	67.4	67.4	64	54.8	4	SSW	0.07	7	W	67.4	67.4	67.4	30.141	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:19 PM	67.4	67.4	67.4	64	54.8	6	W	0.1	10	SSE	67.4	67.4	67.4	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	23	1	100	1
9/25/2012	8:20 PM	67.3	67.4	67.3	64	54.7	7	S	0.12	14	SW	67.3	67.3	67.3	30.142	0	0	0	0.002	65.1	47	44.4	63.1	8.85	0.0754	24	1	100	1
9/25/2012	8:21 PM	67.3	67.3	67.3	64	54.7	3	WSW	0.05	6	WSW	67.3	67.3	67.3	30.141	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:22 PM	67.3	67.3	67.3	64	54.7	6	SSW	0.1	10	SSW	67.3	67.3	67.3	30.145	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	8:23 PM	67.2	67.3	67.2	64	54.6	9	SSW	0.15	13	SSE	65.9	67.1	65.8	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:24 PM	67.3	67.3	67.2	64	54.7	6	SE	0.1	10	WSW	67.3	67.3	67.3	30.145	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:25 PM	67.2	67.3	67.2	64	54.6	4	SSE	0.07	7	WSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	24	1	100	1
9/25/2012	8:26 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:27 PM	67.2	67.2	67.2	64	54.6	5	SSW	0.08	8	SSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:28 PM	67.2	67.2	67.2	64	54.6	5	SW	0.08	10	WSW	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	22	1	95.7	1
9/25/2012	8:29 PM	67.2	67.2	67.2	64	54.6	4	S	0.07	9	ESE	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:30 PM	67.2	67.2	67.2	64	54.6	6	W	0.1	13	W	67.2	67.1	67.1	30.142	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:31 PM	67.2	67.2	67.2	64	54.6	6	SSW	0.1	10	WSW	67.2	67.1	67.1	30.144	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:32 PM	67.2	67.2	67.2	64	54.6	3	S	0.05	8	S	67.2	67.1	67.1	30.143	0	0	0	0.002	64.9	47	44.2	62.9	8.85	0.0755	23	1	100	1
9/25/2012	8:33 PM	67.2	67.2	67.2	64	54.6	4	WSW	0.07	7	WSW	67.2	67.1	67.1	30.143	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:34 PM	67.2	67.2	67.2	64	54.6	6	WSW	0.1	13	SW	67.2	67.1	67.1	30.142	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:35 PM	67.2	67.2	67.2	64	54.6	5	S	0.08	10	W	67.2	67.1	67.1	30.143	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:36 PM	67.2	67.2	67.1	64	54.6	6	SW	0.1	10	W	67.2	67.1	67.1	30.145	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:37 PM	67.2	67.2	67.1	64	54.6	3	SSW	0.05	6	SW	67.2	67.1	67.1	30.146	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:38 PM	67.2	67.2	67.1	64	54.6	5	SSW	0.08	11	SSE	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:39 PM	67.2	67.2	67.1	64	54.6	5	S	0.08	11	SSE	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:40 PM	67.2	67.2	67.1	64	54.6	4	S	0.07	7	NW	67.2	67.1	67.1	30.146	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:41 PM	67.2	67.2	67.1	64	54.6	3	S	0.05	6	SW	67.2	67.1	67.1	30.147	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	22	1	95.7	1
9/25/2012	8:42 PM	67.2	67.2	67.1	64	54.6	7	SSW	0.12	13	SW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:43 PM	67.2	67.2	67.1	64	54.6	5	S	0.08	9	S	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:44 PM	67.2	67.2	67.2	64	54.6	7	WSW	0.12	11	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	24	1	100	1
9/25/2012	8:45 PM	67.2	67.2	67.2	64	54.6	6	SW	0.1	10	W	67.2	67.1	67.1	30.148	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:46 PM	67.2	67.2	67.2	64	54.6	5	SW	0.08	12	WSW	67.2	67.1	67.1	30.149	0	0	0	0.002	64.8	47	44.1	62.8	8.85	0.0755	23	1	100	1
9/25/2012	8:47 PM	67.2	67.2	67.2	64	54.6	5	WSW	0.08	10	WSW	67.2	67.1	67.1

Meteorological Data
Equity IRM

9/25/2012	10:08 PM	66.5	66.5	66.4	66	54.8	3	SW	0.05	7	WNW	66.5	66.5	66.5	30.144	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	24	1	100	1
9/25/2012	10:09 PM	66.4	66.4	66.4	66	54.7	4	S	0.07	11	WSW	66.4	66.4	66.4	30.143	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/25/2012	10:10 PM	66.4	66.4	66.4	66	54.7	5	SSW	0.08	8	SSE	66.4	66.4	66.4	30.142	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	23	1	100	1
9/25/2012	10:11 PM	66.4	66.4	66.4	67	55.1	3	SW	0.05	9	WSW	66.4	66.4	66.4	30.142	0	0	0	0.001	64	48	43.9	62	8.99	0.0756	24	1	100	1
9/25/2012	10:12 PM	66.4	66.4	66.3	67	55.1	5	W	0.08	10	WSW	66.4	66.4	66.4	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:13 PM	66.3	66.3	66.3	66	54.6	5	NW	0.08	8	WSW	66.3	66.2	66.2	30.142	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	24	1	100	1
9/25/2012	10:14 PM	66.3	66.3	66.3	67	55	5	WSW	0.08	7	WSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	22	1	95.7	1
9/25/2012	10:15 PM	66.3	66.3	66.3	67	55	4	S	0.07	6	SSE	66.3	66.3	66.3	30.14	0	0	0	0.001	63.8	48	43.7	61.8	9	0.0756	23	1	100	1
9/25/2012	10:16 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	4	SW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:17 PM	66.3	66.3	66.3	67	55	2	SSW	0.03	5	SSW	66.3	66.3	66.3	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:18 PM	66.3	66.3	66.2	67	55	5	S	0.08	8	SW	66.3	66.3	66.3	30.14	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:19 PM	66.2	66.3	66.2	67	54.9	4	SSW	0.07	10	S	66.2	66.2	66.2	30.141	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	23	1	100	1
9/25/2012	10:20 PM	66.2	66.2	66.2	67	54.9	5	SSW	0.08	8	SSE	66.2	66.2	66.2	30.142	0	0	0	0.001	63.6	48	43.5	61.6	9.01	0.0757	22	1	95.7	1
9/25/2012	10:21 PM	66.2	66.2	66.2	67	54.9	5	S	0.08	8	WSW	66.2	66.2	66.2	30.143	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:22 PM	66.2	66.2	66.2	67	54.9	2	ESE	0.03	4	S	66.2	66.2	66.2	30.142	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:23 PM	66.2	66.2	66.1	67	54.9	3	S	0.05	7	W	66.2	66.2	66.2	30.142	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:24 PM	66.1	66.1	66.1	67	54.8	4	SSW	0.07	8	W	66.1	66.1	66.1	30.14	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:25 PM	66.1	66.1	66.1	67	54.8	5	S	0.08	11	W	66.1	66.1	66.1	30.14	0	0	0	0.001	63.5	48	43.4	61.5	9.01	0.0757	23	1	100	1
9/25/2012	10:26 PM	66.1	66.1	66.1	67	54.8	6	WSW	0.1	10	W	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:27 PM	66.1	66.1	66.1	67	54.8	4	SSW	0.07	7	SSW	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	22	1	95.7	1
9/25/2012	10:28 PM	66.1	66.1	66.1	67	54.8	5	SW	0.08	6	S	66.1	66.1	66.1	30.143	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	24	1	100	1
9/25/2012	10:29 PM	66.1	66.1	66.1	67	54.8	2	SW	0.03	5	SSW	66.1	66.1	66.1	30.141	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:30 PM	66.1	66.1	66.1	67	54.8	5	SSE	0.08	11	SSW	66.1	66.1	66.1	30.143	0	0	0	0.001	63.3	48	43.3	61.3	9.02	0.0757	23	1	100	1
9/25/2012	10:31 PM	66.1	66.1	66.1	67	54.8	5	W	0.08	8	SSE	66.1	66.1	66.1	30.142	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0757	23	1	100	1
9/25/2012	10:32 PM	66.1	66.1	66.1	68	55.2	4	NW	0.07	8	WNW	66.1	66.2	66.2	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	23	1	100	1
9/25/2012	10:33 PM	66.1	66.1	66.1	68	55.2	3	SSE	0.05	6	SSE	66.1	66.2	66.2	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	24	1	100	1
9/25/2012	10:34 PM	66	66.1	66	68	55.1	3	S	0.05	8	SSW	66	66	66	30.144	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	23	1	100	1
9/25/2012	10:35 PM	66	66	66	68	55.1	4	S	0.07	7	S	66	66	66	30.143	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	24	1	100	1
9/25/2012	10:36 PM	66	66	66	68	55.1	4	S	0.07	10	SSE	66	66	66	30.145	0	0	0	0.001	63.2	48	43.2	61.2	9.02	0.0758	22	1	95.7	1
9/25/2012	10:37 PM	66	66	66	68	55.1	5	SSW	0.08	11	SSW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	24	1	100	1
9/25/2012	10:38 PM	66	66	66	68	55.1	3	WSW	0.05	6	WSW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:39 PM	66	66	66	68	55.1	4	SSW	0.07	7	W	66	66	66	30.145	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:40 PM	66	66	66	68	55.1	4	WSW	0.07	8	WSW	66	66	66	30.144	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	24	1	100	1
9/25/2012	10:41 PM	66	66	66	68	55.1	3	SSE	0.05	6	SE	66	66	66	30.144	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:42 PM	66	66	66	68	55.1	4	SSW	0.07	8	SW	66	66	66	30.147	0	0	0	0.001	63	48	43	60.9	9.03	0.0758	23	1	100	1
9/25/2012	10:43 PM	66	66	66	68	55.1	7	W	0.12	9	W	66	66	66	30.146	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:44 PM	66	66	65.9	68	55.1	4	S	0.07	8	W	66	66	66	30.145	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	22	1	95.7	1
9/25/2012	10:45 PM	66	66	65.9	68	55.1	5	W	0.08	8	S	66	66	66	30.147	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	24	1	100	1
9/25/2012	10:46 PM	65.9	66	65.9	68	55	4	S	0.07	6	SSE	65.9	65.9	65.9	30.146	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:47 PM	65.9	65.9	65.9	68	55	3	SSW	0.05	5	WSW	65.9	65.9	65.9	30.147	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	24	1	100	1
9/25/2012	10:48 PM	65.9	65.9	65.9	68	55	2	S	0.03	3	S	65.9	65.9	65.9	30.145	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0758	23	1	100	1
9/25/2012	10:49 PM	65.9	65.9	65.9	68	55	4	SSW	0.07	6	SSW	65.9	65.9	65.9	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:50 PM	65.9	65.9	65.9	68	55	2	NNW	0.03	4	W	65.9	65.9	65.9	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:51 PM	65.9	65.9	65.9	68	55	4	SSE	0.07	10	SSE	65.9	65.9	65.9	30.146	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:52 PM	65.8	65.8	65.8	68	54.9	5	W	0.08	8	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:53 PM	65.8	65.9	65.8	68	54.9	5	S	0.08	8	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	23	1	100	1
9/25/2012	10:54 PM	65.8	65.9	65.8	68	54.9	4	SW	0.07	7	SW	65.8	65.8	65.8	30.145	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0758	24	1	100	1
9/25/2012	10:55 PM	65.8	65.8	65.8	68	54.9	5	WSW	0.08	12	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:56 PM	65.8	65.8	65.8	68	54.9	5	SSE	0.08	9	SE	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:57 PM	65.8	65.8	65.8	68	54.9	4	SSW	0.07	7	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/25/2012	10:58 PM	65.8	65.8	65.8	68	54.9	4	SW	0.07	7	S	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	10:59 PM	65.8	65.8	65.8	68	54.9	3	SW	0.05	7	WSW	65.8	65.8	65.8	30.143	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/25/2012	11:00 PM	65.8	65.8	65.8	68	54.9	5	SSW	0.08	11	W	65.8	65.8	65.8	30.144	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/25/2012	11:01 PM	65.8	65.8	65.8	68	54.9	3	SW	0.05	5	W	65.8	65.8	65.8	30.145	0	0	0	0.001	62.5	49	43.1	60.5	9.25	0.0759	24	1	100	1
9/25/2012	11:02 PM	65.8	65.8	65.8	68	54.9	5	WSW	0.08	8	WSW	65.8	65.8	65.8	30.142	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/25/2012	11:03 PM	65.8	65.8	65.8	68	54.9	2	W	0.03	5	W	65.8	65.8	65.8	30.142	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0759	23	1	100	1
9/25/2012	11:04 PM	65.7	65.8	65.7	69	55.2	3	SW	0.05	6	SW	65.7	65.8	65.8	30.142	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	24	1	100	1
9/25/2012	11:05 PM	65.7	65.8	65.7	69	55.2	3	SSW	0.05	6	SSW	65.7	65.8	65.8	30.141	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:06 PM	65.7	65.8	65.7	69	55.2	3	WSW	0.05	6	SSW	65.7	65.8	65.8	30.141	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:07 PM	65.7	65.7	65.7	69	55.2	4	SSE	0.07	9	SSW	65.7	65.8	65.8	30.143	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	23	1	100	1
9/25/2012	11:08 PM	65.7	65.7	65.7	69	55.2	5	SSW	0.08	10	S	65.7	65.8	65.8	30.145	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	22	1	95.7	1
9/25/2012	11:09 PM	65.7	65.7	65.7	69	55.2	1	SE	0.02	3	SSE	65.7	65.8	65.8	30.147	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	24	1	100	1
9/25/2012	11:10 PM	65.7	65.7	65.7	69	55.2	2	SW	0.03	5	SW	65.7	65.8	65.8	30.148	0	0	0	0	62.4	49	43	60.4	9.25	0.0759	22	1	95.7	1
9/25/2012	11:11 PM	65.7	65.7	65.7	69	55.2	2	SSW	0.03	4	SSW	65.7	65.8	65.8	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:12 PM	65.7	65.7	65.7	69	55.2	3	NNW	0.05	6	NW	65.7	65.8	65.8	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:13 PM	65.6	65.7	65.6	69	55.2	5	S	0.08	9	S	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	21	1	91.3	1
9/25/2012	11:14 PM	65.6	65.7	65.6	69	55.2	3	SSE	0.05	6	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:15 PM	65.6	65.6	65.6	69	55.2	5	S	0.08	9	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:16 PM	65.6	65.6	65.6	69	55.2	3	NW	0.05	5	SSE	65.6	65.6	65.6	30.147	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:17 PM	65.6	65.6	65.6	69	55.2	5	W	0.08	7	S	65.6	65.6	65.6	30.146	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:18 PM	65.7	65.7	65.6	69	55.2	5	W	0.08	10	W	65.7	65.8	65.8	30.148	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	24	1	100	1
9/25/2012	11:19 PM	65.7	65.7	65.6	69	55.2	4	SSW	0.07	5	S	65.7	65.8	65.8	30.148	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0759	22	1	95.7	1
9/25/2012	11:20 PM	65.7	65.7	65.6	69	55.2	4	S	0.07	8	S	65.7	65.8	65.8	30.149	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:21 PM	65.7	65.7	65.6	70	55.6	2	SW	0.03	7	WSW	65.7	65.8	65.8	30.149	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:22 PM	65.6	65.6	65.6	69	55.2	2	SW	0.03	5	W	65.6	65.6	65.6	30.15	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:23 PM	65.7	65.7	65.6	70	55.6	3	SW	0.05	7	SW	65.7	65.8	65.8	30.15	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:24 PM	65.6	65.6	65.6	70	55.5	3	SW	0.05	5	W	65.6	65.7	65.7	30.148	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:25 PM	65.6	65.6	65.6	70	55.5	4	SSW	0.07	8	S	65.6	65.7	65.7	30.148	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:26 PM	65.6	65.6	65.6	70	55.5	2	W	0.03	5	WSW	65.6	65.7	65.7	30.147	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:27 PM	65.6	65.6	65.6	70	55.5	5	SW	0.08	6	WSW	65.6	65.7	65.7	30.144	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:28 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	6	SW	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:29 PM	65.6	65.6	65.6	70	55.5	4	SSW	0.07	9	S	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	23	1	100	1
9/25/2012	11:30 PM	65.6	65.6	65.6	70	55.5	4	W	0.07	10	SW	65.6	65.7	65.7	30.145	0	0	0	0	62.1	49	42.7	60.1	9.27	0.0759	24	1	100	1
9/25/2012	11:31 PM	65.6	65.6	65.6	70	55.5	5	SSW	0.08	9	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:32 PM	65.6	65.6	65.6	70	55.5	3	S	0.05	7	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	22	1	95.7	1
9/25/2012	11:33 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	7	SSW	65.6	65.7	65.7	30.146	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:34 PM	65.6	65.6	65.6	70	55.5	4	WNW	0.07	5	SSW	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:35 PM	65.6	65.6	65.6	70	55.5	2	WSW	0.03	4	W	65.6	65.7	65.7	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:36 PM	65.6	65.6	65.6	70	55.5	2	WSW	0.03	5	S	65.6	65.7	65.7	30.146	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:37 PM	65.6	65.6	65.6	70	55.5	3	SSW	0.05	5	S	65.6	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:38 PM	65.5	65.6	65.5	71	55.8	3	SSW	0.05	9	NW	65.5	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:39 PM	65.6	65.6	65.5	71	55.9	5	SSW	0.08	7	SW	65.6	65.8	65.8	30.145	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:40 PM	65.5	65.6	65.5	71	55.8	2	SSE	0.03	4	SSE	65.5	65.7	65.7	30.144	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:41 PM	65.5	65.5	65.5	71	55.8	2	SSW	0.03	4	S	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:42 PM	65.5	65.5	65.5	71	55.8	4	WNW	0.07	6	SE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:43 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	7	SSE	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:44 PM	65.5	65.5	65.5	71	55.8	4	W	0.07	5	WSW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:45 PM	65.5	65.5	65.5	71	55.8	5	S	0.08	8	SW	65.5	65.7	65.7	30.143	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:46 PM	65.5	65.5	65.5	71	55.8	4	NW	0.07	6	SSW	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:47 PM	65.5	65.5	65.5	71	55.8	4	S	0.07	7	S	65.5	65.7	65.7	30.141	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	24	1	100	1
9/25/2012	11:48 PM	65.5	65.6	65.5	71	55.8	2	S	0.03	5	SSE	65.5	65.7	65.7	30.142	0	0	0	0	61.9	49	42.5	59.9	9.27	0.076	23	1	100	1
9/25/2012	11:49 PM

Meteorological Data
Equity IRM

9/26/2012	1:08 AM	65.3	65.3	65.3	72	56	3	SSW	0.05	9	SSE	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:09 AM	65.3	65.3	65.3	72	56	2	WSW	0.03	7	WSW	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:10 AM	65.3	65.3	65.3	72	56	5	SW	0.08	8	W	65.3	65.5	65.5	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:11 AM	65.3	65.4	65.3	72	56	2	S	0.03	3	WSW	65.3	65.5	65.5	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:12 AM	65.4	65.4	65.3	72	56.1	3	WSW	0.05	4	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:13 AM	65.4	65.4	65.4	72	56.1	4	W	0.07	5	W	65.4	65.6	65.6	30.148	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:14 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	5	W	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:15 AM	65.4	65.4	65.4	72	56.1	4	WSW	0.07	8	WSW	65.4	65.6	65.6	30.149	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:16 AM	65.4	65.4	65.4	72	56.1	4	SW	0.07	7	WSW	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:17 AM	65.4	65.4	65.4	72	56.1	3	WSW	0.05	6	WSW	65.4	65.6	65.6	30.147	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:18 AM	65.4	65.4	65.4	72	56.1	3	SSW	0.05	7	S	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:19 AM	65.4	65.4	65.4	72	56.1	3	ESE	0.05	7	W	65.4	65.6	65.6	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:20 AM	65.4	65.5	65.4	72	56.1	6	W	0.1	10	W	65.4	65.6	65.6	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:21 AM	65.5	65.5	65.5	72	56.2	4	S	0.07	10	WSW	65.5	65.7	65.7	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:22 AM	65.5	65.5	65.5	72	56.2	3	SW	0.05	7	WNW	65.5	65.7	65.7	30.143	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:23 AM	65.5	65.5	65.5	72	56.2	2	SSW	0.03	5	SSW	65.5	65.7	65.7	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:24 AM	65.5	65.5	65.5	72	56.2	2	SSW	0.03	4	SSW	65.5	65.7	65.7	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:25 AM	65.6	65.6	65.5	72	56.3	4	WSW	0.07	7	WSW	65.6	65.8	65.8	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:26 AM	65.6	65.6	65.5	72	56.3	4	SW	0.07	6	S	65.6	65.8	65.8	30.144	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:27 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	6	SW	65.6	65.8	65.8	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:28 AM	65.6	65.6	65.6	72	56.3	2	SSE	0.03	5	W	65.6	65.8	65.8	30.144	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:29 AM	65.6	65.6	65.6	72	56.3	1	SSE	0.02	4	WSW	65.6	65.8	65.8	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:30 AM	65.6	65.6	65.6	72	56.3	4	S	0.07	9	SSW	65.6	65.8	65.8	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:31 AM	65.6	65.6	65.6	72	56.3	3	S	0.05	5	SW	65.6	65.8	65.8	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:32 AM	65.7	65.7	65.6	72	56.4	2	SSW	0.03	4	SSW	65.7	66	66	30.146	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:33 AM	65.7	65.7	65.6	72	56.4	3	SW	0.05	7	WSW	65.7	66	66	30.145	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:34 AM	65.7	65.7	65.6	72	56.4	5	S	0.08	10	W	65.7	66	66	30.143	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:35 AM	65.7	65.7	65.6	72	56.4	4	WSW	0.07	8	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:36 AM	65.7	65.7	65.7	72	56.4	3	SSW	0.05	6	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:37 AM	65.7	65.7	65.7	72	56.4	3	W	0.05	4	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:38 AM	65.7	65.8	65.7	72	56.4	4	WSW	0.07	7	W	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:39 AM	65.7	65.8	65.7	72	56.4	2	WSW	0.03	4	WSW	65.7	66	66	30.142	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:40 AM	65.8	65.8	65.7	72	56.5	5	WSW	0.08	8	W	65.8	66.1	66.1	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:41 AM	65.8	65.8	65.8	72	56.5	2	WSW	0.03	5	WSW	65.8	66.1	66.1	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:42 AM	65.8	65.8	65.8	71	56.1	4	SW	0.07	6	SW	65.8	66	66	30.142	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:43 AM	65.8	65.8	65.8	71	56.1	4	WSW	0.07	7	WSW	65.8	66	66	30.141	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:44 AM	65.8	65.8	65.8	72	56.5	3	S	0.05	7	SSW	65.8	66.1	66.1	30.14	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:45 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	W	65.8	66	66	30.139	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:46 AM	65.8	65.8	65.8	71	56.1	2	WSW	0.03	3	WSW	65.8	66	66	30.139	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:47 AM	65.8	65.8	65.8	71	56.1	2	SW	0.03	4	SW	65.8	66	66	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:48 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	WSW	65.8	66	66	30.138	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:49 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	5	WSW	65.8	66	66	30.138	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:50 AM	65.8	65.8	65.8	72	56.5	3	WSW	0.05	4	WSW	65.8	66.1	66.1	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	23	1	100	1
9/26/2012	1:51 AM	65.8	65.8	65.8	72	56.5	1	SW	0.02	2	SW	65.8	66.1	66.1	30.135	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:52 AM	65.8	65.8	65.8	72	56.5	3	WSW	0.05	6	WSW	65.8	66.1	66.1	30.137	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	24	1	100	1
9/26/2012	1:53 AM	65.8	65.8	65.8	72	56.5	5	SW	0.08	9	W	65.8	66.1	66.1	30.133	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	1:54 AM	65.8	65.8	65.8	71	56.1	1	SW	0.02	4	SW	65.8	66	66	30.134	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	1:55 AM	65.8	65.8	65.8	71	56.1	1	SW	0.02	1	SW	65.8	66	66	30.135	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0759	22	1	95.7	1
9/26/2012	1:56 AM	65.8	65.8	65.8	71	56.1	2	SSW	0.03	4	SSW	65.8	66	66	30.134	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:57 AM	65.8	65.8	65.8	71	56.1	3	WSW	0.05	6	WSW	65.8	66	66	30.133	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:58 AM	65.8	65.8	65.8	71	56.1	4	SSW	0.07	6	SSW	65.8	66	66	30.132	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	1:59 AM	65.8	65.8	65.8	71	56.1	3	SSW	0.05	8	SW	65.8	66	66	30.132	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:00 AM	65.8	65.8	65.8	71	56.1	3	S	0.05	5	S	65.8	66	66	30.13	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:01 AM	65.8	65.8	65.8	71	56.1	6	WSW	0.1	10	W	65.8	66	66	30.129	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:02 AM	65.8	65.8	65.8	71	56.1	3	SSW	0.05	7	SSW	65.8	66	66	30.127	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:03 AM	65.8	65.8	65.8	71	56.1	4	SSE	0.07	8	SSW	65.8	66	66	30.126	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:04 AM	65.7	65.8	65.7	71	56	4	SW	0.07	10	SW	65.7	65.9	65.9	30.125	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:05 AM	65.7	65.7	65.7	71	56	4	WSW	0.07	7	WSW	65.7	65.9	65.9	30.122	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:06 AM	65.7	65.7	65.7	71	56	3	S	0.05	7	S	65.7	65.9	65.9	30.124	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:07 AM	65.6	65.7	65.6	71	55.9	3	SSE	0.05	4	SSE	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:08 AM	65.6	65.6	65.6	71	55.9	4	SW	0.07	9	S	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:09 AM	65.6	65.6	65.6	71	55.9	3	SW	0.05	6	SW	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:10 AM	65.6	65.6	65.6	71	55.9	3	WSW	0.05	6	W	65.6	65.8	65.8	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:11 AM	65.5	65.6	65.5	71	55.8	6	WSW	0.1	11	WSW	65.5	65.7	65.7	30.12	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:12 AM	65.5	65.5	65.5	71	55.8	5	WNW	0.08	10	W	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:13 AM	65.5	65.5	65.5	71	55.8	3	WSW	0.05	10	WSW	65.5	65.7	65.7	30.118	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:14 AM	65.5	65.5	65.5	71	55.8	3	WSW	0.05	4	SW	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:15 AM	65.5	65.5	65.5	71	55.8	3	W	0.05	8	W	65.5	65.7	65.7	30.118	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:16 AM	65.5	65.5	65.5	71	55.8	4	NW	0.07	8	WSW	65.5	65.7	65.7	30.119	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:17 AM	65.5	65.5	65.5	71	55.8	3	SSW	0.05	5	S	65.5	65.7	65.7	30.117	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:18 AM	65.5	65.5	65.5	71	55.8	3	W	0.05	6	W	65.5	65.7	65.7	30.117	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:19 AM	65.5	65.5	65.5	71	55.8	1	W	0.02	3	W	65.5	65.7	65.7	30.116	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:20 AM	65.5	65.5	65.5	71	55.8	2	W	0.03	4	W	65.5	65.7	65.7	30.116	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:21 AM	65.5	65.5	65.5	71	55.8	2	W	0.03	3	W	65.5	65.7	65.7	30.114	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:22 AM	65.5	65.5	65.5	71	55.8	4	S	0.07	7	S	65.5	65.7	65.7	30.115	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:23 AM	65.5	65.5	65.5	71	55.8	4	W	0.07	6	W	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:24 AM	65.5	65.5	65.5	71	55.8	3	SSE	0.05	5	SSE	65.5	65.7	65.7	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:25 AM	65.5	65.5	65.5	72	56.2	4	WSW	0.07	5	WSW	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:26 AM	65.6	65.6	65.5	71	55.9	5	S	0.08	7	SSW	65.6	65.8	65.8	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:27 AM	65.5	65.6	65.5	71	55.8	6	WSW	0.1	9	WSW	65.5	65.7	65.7	30.113	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:28 AM	65.6	65.6	65.6	72	56.3	5	WSW	0.08	7	WSW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:29 AM	65.6	65.6	65.6	71	55.9	3	WSW	0.05	5	WSW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:30 AM	65.6	65.6	65.6	72	56.3	2	S	0.03	4	NNW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:31 AM	65.6	65.6	65.6	72	56.3	3	S	0.05	5	S	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:32 AM	65.6	65.6	65.6	72	56.3	2	SW	0.03	5	SW	65.6	65.8	65.8	30.112	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:33 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	8	N	65.6	65.8	65.8	30.111	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:34 AM	65.6	65.6	65.6	71	55.9	4	WSW	0.07	8	SW	65.6	65.8	65.8	30.109	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:35 AM	65.6	65.6	65.6	71	55.9	2	WSW	0.03	5	WSW	65.6	65.8	65.8	30.108	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	24	1	100	1
9/26/2012	2:36 AM	65.6	65.6	65.6	72	56.3	3	SSW	0.05	7	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:37 AM	65.6	65.6	65.5	72	56.3	1	SSW	0.02	3	SSW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:38 AM	65.6	65.6	65.5	72	56.3	5	W	0.08	8	W	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:39 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	5	WSW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:40 AM	65.6	65.6	65.5	71	55.9	3	SSW	0.05	6	SSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:41 AM	65.6	65.6	65.5	71	55.9	2	SW	0.03	5	SW	65.6	65.8	65.8	30.106	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:42 AM	65.6	65.6	65.6	72	56.3	3	SW	0.05	8	WSW	65.6	65.8	65.8	30.107	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:43 AM	65.6	65.6	65.6	71	55.9	3	SW	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	22	1	95.7	1
9/26/2012	2:44 AM	65.6	65.6	65.6	72	56.3	3	W	0.05	7	W	65.6	65.8	65.8	30.105	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:45 AM	65.6	65.6	65.6	71	55.9	5	W	0.08	10	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:46 AM	65.6	65.6	65.6	71	55.9	2	SW	0.03	4	WSW	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:47 AM	65.6	65.6	65.6	72	56.3	4	SE	0.07	8	W	65.6	65.8	65.8	30.104	0	0	0	0	62.5	48	42.5	60.4	9.05	0.0758	23	1	100	1
9/26/2012	2:48 AM	65.6	65.6	65.6	72	56.3	2	SW	0.03	5	WSW	65.6	65.8	65.8	30.103	0	0	0

Meteorological Data
Equity IRM

9/26/2012	4:08 AM	65.6	65.6	65.6	73	56.7	4	SW	0.07	6	NW	65.6	65.9	65.9	30.082	0	0	0	0	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	4:09 AM	65.6	65.6	65.6	73	56.7	4	SSW	0.07	7	WSW	65.6	65.9	65.9	30.081	0	0	0	0	62.2	48	42.3	60.1	9.06	0.0758	24	1	100	1
9/26/2012	4:10 AM	65.7	65.7	65.6	73	56.8	4	SSW	0.07	7	SSW	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:11 AM	65.7	65.7	65.7	73	56.8	2	SSW	0.03	3	SSW	65.7	66	66	30.082	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0758	24	1	100	1
9/26/2012	4:12 AM	65.7	65.7	65.7	72	56.4	5	WSW	0.08	9	W	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:13 AM	65.7	65.7	65.7	73	56.8	3	SSW	0.05	5	SSW	65.7	66	66	30.081	0	0	0	0	62.2	49	42.8	60.2	9.26	0.0757	22	1	95.7	1
9/26/2012	4:14 AM	65.8	65.8	65.7	73	56.9	4	SSE	0.07	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:15 AM	65.8	65.8	65.8	72	56.5	5	S	0.08	9	SSW	65.8	66.1	66.1	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:16 AM	65.8	65.8	65.8	72	56.5	3	S	0.05	7	SSW	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	4:17 AM	65.8	65.8	65.8	73	56.9	2	S	0.03	4	S	65.8	66.1	66.1	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	4:18 AM	65.9	65.9	65.8	73	57	2	S	0.03	4	S	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:19 AM	65.9	65.9	65.9	73	57	1	S	0.02	2	S	65.9	66.3	66.3	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:20 AM	65.9	65.9	65.9	73	57	5	SSE	0.08	7	SSW	65.9	66.3	66.3	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:21 AM	65.9	65.9	65.9	73	57	4	SSW	0.07	7	S	65.9	66.3	66.3	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:22 AM	65.9	65.9	65.9	72	56.6	2	SW	0.03	5	S	65.9	66.2	66.2	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:23 AM	65.9	65.9	65.9	72	56.6	2	SW	0.03	5	SW	65.9	66.2	66.2	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:24 AM	65.9	65.9	65.9	72	56.6	2	SSW	0.03	8	SSE	65.9	66.2	66.2	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:25 AM	66	66	65.9	72	56.7	3	SSW	0.05	5	SW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:26 AM	66	66	66	72	56.7	2	SW	0.03	5	SSW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:27 AM	66	66	66	72	56.7	2	SSW	0.03	4	SSW	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:28 AM	66	66	66	72	56.7	1	SSE	0.02	4	SSE	66	66.3	66.3	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:29 AM	66.1	66.1	66.1	72	56.8	2	WSW	0.03	5	WSW	66.1	66.4	66.4	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:30 AM	66.1	66.1	66.1	72	56.8	0	WSW	0	2	WSW	66.1	66.4	66.4	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:31 AM	66.1	66.1	66.1	72	56.8	2	WSW	0.03	6	S	66.1	66.4	66.4	30.087	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:32 AM	66.1	66.1	66.1	72	56.8	3	S	0.05	7	WNW	66.1	66.4	66.4	30.086	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:33 AM	66.1	66.1	66.1	71	56.4	3	NW	0.05	7	NW	66.1	66.4	66.4	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:34 AM	66.1	66.1	66.1	71	56.4	2	S	0.03	4	S	66.1	66.4	66.4	30.087	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:35 AM	66.2	66.2	66.1	71	56.5	6	WNW	0.1	9	WSW	66.2	66.5	66.5	30.085	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	22	1	95.7	1
9/26/2012	4:36 AM	66.2	66.2	66.2	71	56.5	5	SSW	0.08	7	W	66.2	66.5	66.5	30.083	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	24	1	100	1
9/26/2012	4:37 AM	66.3	66.3	66.2	71	56.6	4	SSW	0.07	7	S	66.3	66.6	66.6	30.083	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	23	1	100	1
9/26/2012	4:38 AM	66.3	66.3	66.3	71	56.6	3	SSW	0.05	5	W	66.3	66.6	66.6	30.084	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	24	1	100	1
9/26/2012	4:39 AM	66.3	66.3	66.3	71	56.6	2	S	0.03	4	S	66.3	66.6	66.6	30.085	0	0	0	0.001	61.9	49	42.5	59.9	9.27	0.0758	23	1	100	1
9/26/2012	4:40 AM	66.3	66.3	66.3	71	56.6	4	S	0.07	9	WNW	66.3	66.6	66.6	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:41 AM	66.3	66.3	66.3	71	56.6	4	SSW	0.07	8	WNW	66.3	66.6	66.6	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:42 AM	66.4	66.4	66.4	71	56.7	3	SSW	0.05	6	NNW	66.4	66.7	66.7	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:43 AM	66.4	66.4	66.4	71	56.7	4	SW	0.07	7	S	66.4	66.7	66.7	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:44 AM	66.4	66.4	66.4	71	56.7	2	W	0.03	6	W	66.4	66.7	66.7	30.085	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:45 AM	66.4	66.4	66.4	71	56.7	4	WNW	0.07	6	WSW	66.4	66.7	66.7	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:46 AM	66.5	66.5	66.4	71	56.8	5	SSE	0.08	10	WSW	66.5	66.9	66.9	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:47 AM	66.5	66.5	66.5	71	56.8	2	W	0.03	4	W	66.5	66.9	66.9	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:48 AM	66.5	66.5	66.5	71	56.8	2	W	0.03	9	SSE	66.5	66.9	66.9	30.084	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:49 AM	66.5	66.5	66.5	71	56.8	6	S	0.1	11	SE	66.5	66.9	66.9	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:50 AM	66.5	66.5	66.5	71	56.8	5	W	0.08	8	W	66.5	66.9	66.9	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:51 AM	66.6	66.6	66.5	71	56.9	3	SW	0.05	6	W	66.6	67	67	30.083	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:52 AM	66.6	66.6	66.5	71	56.9	5	WSW	0.08	9	WSW	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:53 AM	66.6	66.6	66.6	71	56.9	3	WSW	0.05	6	S	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:54 AM	66.6	66.6	66.6	71	56.9	4	S	0.07	10	SSW	66.6	67	67	30.081	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	23	1	100	1
9/26/2012	4:55 AM	66.7	66.7	66.6	71	57	4	SSW	0.07	10	WSW	66.7	67.1	67.1	30.082	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:56 AM	66.7	66.7	66.7	71	57	3	S	0.05	5	W	66.7	67.1	67.1	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	22	1	95.7	1
9/26/2012	4:57 AM	66.7	66.7	66.7	71	57	2	SSE	0.03	4	S	66.7	67.1	67.1	30.08	0	0	0	0.001	62.1	49	42.7	60.1	9.27	0.0758	24	1	100	1
9/26/2012	4:58 AM	66.7	66.7	66.7	71	57	3	SSW	0.05	7	SSW	66.7	67.1	67.1	30.079	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	22	1	95.7	1
9/26/2012	4:59 AM	66.7	66.7	66.7	71	57	4	SW	0.07	8	W	66.7	67.1	67.1	30.079	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:00 AM	66.7	66.8	66.7	71	57	3	W	0.05	6	W	66.7	67.1	67.1	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:01 AM	66.8	66.8	66.7	71	57.1	4	S	0.07	6	SSW	66.8	67.2	67.2	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:02 AM	66.8	66.8	66.7	71	57.1	4	S	0.07	9	W	66.8	67.2	67.2	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	5:03 AM	66.8	66.8	66.8	71	57.1	4	SW	0.07	7	WSW	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:04 AM	66.8	66.8	66.8	71	57.1	4	WSW	0.07	10	W	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:05 AM	66.8	66.8	66.8	71	57.1	6	WSW	0.1	11	W	66.8	67.2	67.2	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	22	1	95.7	1
9/26/2012	5:06 AM	66.9	66.9	66.8	71	57.2	3	W	0.05	5	W	66.9	67.3	67.3	30.082	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0758	23	1	100	1
9/26/2012	5:07 AM	66.9	66.9	66.9	71	57.2	3	SE	0.05	6	SW	66.9	67.3	67.3	30.081	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	24	1	100	1
9/26/2012	5:08 AM	66.9	66.9	66.9	70	56.8	3	WSW	0.05	6	W	66.9	67.3	67.3	30.08	0	0	0	0.001	62.2	49	42.8	60.2	9.26	0.0757	23	1	100	1
9/26/2012	5:09 AM	66.9	66.9	66.9	71	57.2	7	W	0.12	12	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	49	43	60.4	9.25	0.0757	24	1	100	1
9/26/2012	5:10 AM	66.9	66.9	66.9	70	56.8	4	S	0.07	6	W	66.9	67.3	67.3	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:11 AM	66.9	66.9	66.9	70	56.8	2	SW	0.03	4	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:12 AM	66.9	66.9	66.9	70	56.8	5	S	0.08	9	WNW	66.9	67.3	67.3	30.079	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:13 AM	66.9	66.9	66.9	70	56.8	2	ENE	0.03	4	S	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:14 AM	66.9	66.9	66.9	70	56.8	4	SW	0.07	8	W	66.9	67.3	67.3	30.08	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:15 AM	67	67	66.9	70	56.9	4	WSW	0.07	7	SSW	67	67.4	67.4	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	22	1	95.7	1
9/26/2012	5:16 AM	67	67	66.9	70	56.9	3	S	0.05	6	S	67	67.4	67.4	30.081	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:17 AM	67	67	67	70	56.9	4	N	0.07	9	WNW	67	67.4	67.4	30.079	0	0	0	0.001	62.4	48	42.4	60.3	9.05	0.0757	23	1	100	1
9/26/2012	5:18 AM	67	67	67	70	56.9	4	SW	0.07	7	SSE	67	67.4	67.4	30.08	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:19 AM	67	67	67	70	56.9	4	SSW	0.07	8	SW	67	67.4	67.4	30.079	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:20 AM	67	67	67	70	56.9	4	WSW	0.07	8	WSW	67	67.4	67.4	30.08	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:21 AM	67	67	67	71	57.3	1	NW	0.02	2	NW	67	67.5	67.5	30.079	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:22 AM	67	67	67	70	56.9	2	WSW	0.03	4	SW	67	67.4	67.4	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:23 AM	67	67	67	71	57.3	2	W	0.03	4	W	67	67.5	67.5	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:24 AM	67	67	67	71	57.3	1	W	0.02	3	W	67	67.5	67.5	30.083	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	22	1	95.7	1
9/26/2012	5:25 AM	67	67	66.9	71	57.3	5	W	0.08	10	W	67	67.5	67.5	30.083	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:26 AM	67	67	66.9	70	56.9	4	NW	0.07	11	WSW	67	67.4	67.4	30.082	0	0	0	0.001	62.5	48	42.5	60.4	9.05	0.0757	23	1	100	1
9/26/2012	5:27 AM	67	67	67	70	56.9	3	S	0.05	7	S	67	67.4	67.4	30.08	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:28 AM	67	67	67	70	56.9	4	S	0.07	8	W	67	67.4	67.4	30.082	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:29 AM	67	67	67	71	57.3	3	WSW	0.05	7	SSE	67	67.5	67.5	30.08	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:30 AM	67	67	67	70	56.9	5	S	0.08	11	S	67	67.4	67.4	30.078	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:31 AM	67	67	67	70	56.9	3	WSW	0.05	6	WSW	67	67.4	67.4	30.077	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:32 AM	67	67	67	71	57.3	2	S	0.03	4	SW	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:33 AM	67	67	67	71	57.3	2	WNW	0.03	4	SSW	67	67.5	67.5	30.075	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:34 AM	67	67	67	71	57.3	3	S	0.05	5	SW	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:35 AM	67	67	67	71	57.3	5	S	0.08	10	S	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	23	1	100	1
9/26/2012	5:36 AM	67	67	67	71	57.3	5	WSW	0.08	8	W	67	67.5	67.5	30.076	0	0	0	0.001	62.7	48	42.7	60.6	9.04	0.0757	24	1	100	1
9/26/2012	5:37 AM	67	67	67	71	57.3	4	W	0.07	7	W	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:38 AM	67	67	67	71	57.3	5	S	0.08	9	W	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:39 AM	67	67	67	71	57.3	4	SSW	0.07	8	S	67	67.5	67.5	30.075	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:40 AM	67	67	67	71	57.3	4	SW	0.07	6	WSW	67	67.5	67.5	30.077	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:41 AM	66.9	67	66.9	71	57.2	3	S	0.05	6	SSW	66.9	67.3	67.3	30.078	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:42 AM	67	67	67	71	57.3	3	SSW	0.05	7	SE	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:43 AM	67	67	67	71	57.3	5	SSW	0.08	11	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:44 AM	67	67	67	71	57.3	2	WSW	0.03	4	SSW	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:45 AM	67	67	67	71	57.3	5	SW	0.08	8	S	67	67.5	67.5	30.08	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	24	1	100	1
9/26/2012	5:46 AM	67	67	67	71	57.3	2	S	0.03	4	S	67	67.5	67.5	30.081	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	22	1	95.7	1
9/26/2012	5:47 AM	67	67	67	71	57.3	3	SSW	0.05	5	S	67	67.5	67.5	30.082	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0756	23	1	100	1
9/26/2012	5:48 AM	67	67	67	71	57.3	4	W	0.07	7	W	67	67.5	67.5	30.083	0	0	0	0.001	62.9	48	42.9	60.8	9.03	0.0757	23	1	100	1
9/26/2012	5:49 AM	67	67	67	71	57.3	4	S	0.07

Meteorological Data
Equity IRM

9/26/2012	7:08 AM	67.4	67.4	67.4	72	58.1	2	S	0.03	4	S	67.4	68	68	30.084	0	0	0	0.002	63.6	52	45.6	62	9.75	0.0755	22	1	95.7	1
9/26/2012	7:09 AM	67.4	67.4	67.4	72	58.1	3	SSW	0.05	7	SSW	67.4	68	68	30.084	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	23	1	100	1
9/26/2012	7:10 AM	67.4	67.4	67.4	72	58.1	3	SSE	0.05	4	SW	67.4	68	68	30.082	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	24	1	100	1
9/26/2012	7:11 AM	67.4	67.4	67.4	72	58.1	2	SW	0.03	4	WSW	67.4	68	68	30.083	0	0	0	0.002	63.8	52	45.8	62.2	9.75	0.0754	23	1	100	1
9/26/2012	7:12 AM	67.4	67.4	67.3	72	58.1	3	SSW	0.05	7	WNW	67.4	68	68	30.082	0	0	0	0.002	64	52	46	62.4	9.75	0.0754	24	1	100	1
9/26/2012	7:13 AM	67.4	67.4	67.3	72	58.1	6	W	0.1	10	SW	67.4	68	68	30.087	0	0	0	0.002	64	54	47	62.6	10.15	0.0754	23	1	100	1
9/26/2012	7:14 AM	67.4	67.4	67.3	72	58.1	5	WSW	0.08	10	NNE	67.4	68	68	30.089	0	0	0	0.002	64	55	47.5	62.7	10.25	0.0754	23	1	100	1
9/26/2012	7:15 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	7	WSW	67.4	68	68	30.087	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:16 AM	67.4	67.4	67.4	72	58.1	3	SW	0.05	6	W	67.4	68	68	30.088	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	23	1	100	1
9/26/2012	7:17 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	8	W	67.4	68	68	30.089	0	0	0	0.002	64.1	56	48.1	62.9	10.45	0.0753	24	1	100	1
9/26/2012	7:18 AM	67.4	67.4	67.4	72	58.1	4	WSW	0.07	7	WSW	67.4	68	68	30.09	0	0	0	0.002	64.3	56	48.3	63.1	10.45	0.0753	23	1	100	1
9/26/2012	7:19 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	8	WSW	67.4	68	68	30.092	0	0	0	0.002	64.3	57	48.7	63.2	10.64	0.0753	24	1	100	1
9/26/2012	7:20 AM	67.4	67.4	67.4	72	58.1	4	S	0.07	6	SSW	67.4	68	68	30.093	0	0	0	0.002	64.3	56	48.3	63.1	10.45	0.0753	23	1	100	1
9/26/2012	7:21 AM	67.4	67.4	67.4	72	58.1	3	S	0.05	6	SSE	67.4	68	68	30.094	0	0	0	0.002	64.5	59	49.8	63.6	10.95	0.0752	23	1	100	1
9/26/2012	7:22 AM	67.4	67.4	67.4	72	58.1	2	SSW	0.03	4	SSW	67.4	68	68	30.096	0	0	0	0.002	64.5	58	49.4	63.5	10.75	0.0753	24	1	100	1
9/26/2012	7:23 AM	67.5	67.5	67.4	72	58.2	4	WSW	0.07	7	WSW	67.5	68.1	68.1	30.095	0	0	0	0.002	64.5	60	50.3	63.6	11.06	0.0752	23	1	100	1
9/26/2012	7:24 AM	67.5	67.5	67.5	72	58.2	3	WSW	0.05	8	SSE	67.5	68.1	68.1	30.095	0	0	0	0.002	64.6	58	49.5	63.6	10.75	0.0752	24	1	100	1
9/26/2012	7:25 AM	67.5	67.5	67.5	72	58.2	5	W	0.08	8	WSW	67.5	68.1	68.1	30.093	0	0	0	0.002	64.6	58	49.5	63.6	10.75	0.0752	23	1	100	1
9/26/2012	7:26 AM	67.5	67.5	67.5	72	58.2	4	SW	0.07	6	W	67.5	68.1	68.1	30.095	0	0	0	0.002	64.6	60	50.4	63.8	11.06	0.0752	23	1	100	1
9/26/2012	7:27 AM	67.6	67.6	67.6	72	58.2	3	W	0.05	6	W	67.6	68.2	68.2	30.097	0	0	0	0.002	64.8	59	50.1	63.9	10.95	0.0752	24	1	100	1
9/26/2012	7:28 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	8	W	67.6	68.2	68.2	30.097	0	0	0	0.002	64.8	59	50.1	63.9	10.95	0.0752	23	1	100	1
9/26/2012	7:29 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	7	WNW	67.6	68.2	68.2	30.098	0	0	0	0.002	64.8	62	51.5	64.2	11.45	0.0751	24	1	100	1
9/26/2012	7:30 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	12	WSW	67.6	68.2	68.2	30.099	0	0	0	0.002	64.9	60	50.7	64.1	11.05	0.0752	23	1	100	1
9/26/2012	7:31 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	12	W	67.6	68.2	68.2	30.095	0	0	0	0.002	64.9	63	52	64.4	11.65	0.0751	24	1	100	1
9/26/2012	7:32 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	8	WNW	67.6	68.2	68.2	30.099	0	0	0	0.002	64.9	62	51.6	64.3	11.45	0.0751	23	1	100	1
9/26/2012	7:33 AM	67.6	67.6	67.6	72	58.2	3	SSW	0.05	5	SW	67.6	68.2	68.2	30.095	0	0	0	0.002	65.1	62	51.8	64.5	11.45	0.0751	23	1	100	1
9/26/2012	7:34 AM	67.6	67.6	67.6	72	58.2	3	SSW	0.05	8	WSW	67.6	68.2	68.2	30.096	0	0	0	0.002	65.1	63	52.2	64.6	11.65	0.0751	24	1	100	1
9/26/2012	7:35 AM	67.6	67.6	67.6	72	58.2	2	S	0.03	4	SSW	67.6	68.2	68.2	30.095	0	0	0	0.002	65.1	61	51.3	64.4	11.25	0.0751	23	1	100	1
9/26/2012	7:36 AM	67.6	67.6	67.6	72	58.2	5	SSE	0.08	9	W	67.6	68.2	68.2	30.093	0	0	0	0.002	65.3	60	51.1	64.5	11.05	0.0751	24	1	100	1
9/26/2012	7:37 AM	67.6	67.6	67.6	72	58.2	3	W	0.05	7	W	67.6	68.2	68.2	30.093	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.075	23	1	100	1
9/26/2012	7:38 AM	67.5	67.6	67.5	72	58.2	3	W	0.05	5	W	67.5	68.1	68.1	30.094	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.075	23	1	100	1
9/26/2012	7:39 AM	67.5	67.5	67.5	73	58.5	4	WSW	0.07	8	W	67.5	68.2	68.2	30.095	0	0	0	0.002	65.3	62	51.9	64.7	11.44	0.0751	24	1	100	1
9/26/2012	7:40 AM	67.5	67.5	67.5	72	58.2	7	WSW	0.12	9	WSW	67.5	68.1	68.1	30.095	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	23	1	100	1
9/26/2012	7:41 AM	67.5	67.5	67.5	72	58.2	4	S	0.07	8	SSW	67.5	68.1	68.1	30.093	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	24	1	100	1
9/26/2012	7:42 AM	67.5	67.5	67.5	72	58.2	3	SW	0.05	6	W	67.5	68.1	68.1	30.093	0	0	0	0.002	65.4	63	52.5	64.9	11.64	0.075	23	1	100	1
9/26/2012	7:43 AM	67.5	67.5	67.5	73	58.5	4	SW	0.07	6	WSW	67.5	68.2	68.2	30.092	0	0	0	0.002	65.4	62	52	64.8	11.44	0.075	24	1	100	1
9/26/2012	7:44 AM	67.4	67.5	67.4	72	58.1	3	WSW	0.05	6	WNW	67.4	68	68	30.092	0	0	0	0.002	65.4	62	52	64.8	11.44	0.075	23	1	100	1
9/26/2012	7:45 AM	67.5	67.5	67.4	73	58.5	4	SW	0.07	7	SW	67.5	68.2	68.2	30.091	0	0	0	0.002	65.6	63	52.7	65.2	11.64	0.075	23	1	100	1
9/26/2012	7:46 AM	67.4	67.4	67.4	73	58.4	2	WSW	0.03	5	W	67.4	68.1	68.1	30.093	0	0	0	0.002	65.6	62	52.2	65.1	11.44	0.075	23	1	100	1
9/26/2012	7:47 AM	67.4	67.4	67.4	73	58.4	3	S	0.05	6	SSW	67.4	68.1	68.1	30.091	0	0	0	0.002	65.6	61	51.8	65	11.25	0.075	23	1	100	1
9/26/2012	7:48 AM	67.5	67.5	67.4	73	58.5	2	SSW	0.03	4	SW	67.5	68.2	68.2	30.091	0	0	0	0.002	65.6	61	51.8	65	11.25	0.075	23	1	100	1
9/26/2012	7:49 AM	67.5	67.5	67.5	73	58.5	2	W	0.03	5	WSW	67.5	68.2	68.2	30.09	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/26/2012	7:50 AM	67.5	67.5	67.5	73	58.5	4	SW	0.07	7	WSW	67.5	68.2	68.2	30.087	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	22	1	95.7	1
9/26/2012	7:51 AM	67.5	67.5	67.5	73	58.5	5	WSW	0.08	7	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/26/2012	7:52 AM	67.5	67.5	67.5	73	58.5	3	SW	0.05	4	SSW	67.5	68.2	68.2	30.087	0	0	0	0.002	65.8	61	52	65.2	11.25	0.075	23	1	100	1
9/26/2012	7:53 AM	67.5	67.5	67.5	73	58.5	3	S	0.05	7	SSE	67.5	68.2	68.2	30.087	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.075	23	1	100	1
9/26/2012	7:54 AM	67.5	67.5	67.5	73	58.5	4	WSW	0.07	8	WNW	67.5	68.2	68.2	30.088	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.075	23	1	100	1
9/26/2012	7:55 AM	67.5	67.5	67.5	73	58.5	5	SW	0.08	7	W	67.5	68.2	68.2	30.087	0	0	0	0.002	65.9	61	52.1	65.3	11.25	0.0749	22	1	95.7	1
9/26/2012	7:56 AM	67.5	67.5	67.5	73	58.5	3	SW	0.05	5	SW	67.5	68.2	68.2	30.087	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	24	1	100	1
9/26/2012	7:57 AM	67.5	67.5	67.5	73	58.5	2	S	0.03	4	WNW	67.5	68.2	68.2	30.087	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	22	1	95.7	1
9/26/2012	7:58 AM	67.5	67.5	67.5	73	58.5	3	SSW	0.05	5	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	61	52.3	65.5	11.25	0.0749	24	1	100	1
9/26/2012	7:59 AM	67.5	67.5	67.5	73	58.5	2	WSW	0.03	3	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	60	51.8	65.4	11.05	0.0749	22	1	95.7	1
9/26/2012	8:00 AM	67.5	67.5	67.5	73	58.5	1	SSE	0.02	3	SSE	67.5	68.2	68.2	30.088	0	0	0	0.002	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/26/2012	8:01 AM	67.5	67.5	67.5	73	58.5	3	SSE	0.05	5	W	67.5	68.2	68.2	30.088	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	23	1	100	1
9/26/2012	8:02 AM	67.5	67.5	67.5	73	58.5	3	WSW	0.05	5	WSW	67.5	68.2	68.2	30.088	0	0	0	0.002	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/26/2012	8:03 AM	67.6	67.6	67.5	73	58.6	2	WSW	0.03	4	W	67.6	68.3	68.3	30.088	0	0	0	0.002	66.2	60	51.9	65.5	11.05	0.0749	24	1	100	1
9/26/2012	8:04 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	WSW	67.6	68.3	68.3	30.089	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	23	1	100	1
9/26/2012	8:05 AM	67.6	67.6	67.6	73	58.6	5	S	0.08	9	W	67.6	68.3	68.3	30.087	0	0	0	0.002	66.2	61	52.3	65.6	11.25	0.0749	24	1	100	1
9/26/2012	8:06 AM	67.6	67.6	67.6	73	58.6	7	WSW	0.12	10	WNW	67.6	68.3	68.3	30.089	0	0	0	0.002	66.4	61	52.5	65.9	11.25	0.0749	23	1	100	1
9/26/2012	8:07 AM	67.6	67.6	67.6	73	58.6	6	WSW	0.1	9	WSW	67.6	68.3	68.3	30.087	0	0	0	0.002	66.4	61	52.5	65.9	11.25	0.0749	23	1	100	1
9/26/2012	8:08 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	5	WSW	67.6	68.3	68.3	30.09	0	0	0	0.002	66.4	62	53	66	11.42	0.0748	24	1	100	1
9/26/2012	8:09 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	6	S	67.6	68.3	68.3	30.09	0	0	0	0.002	66.4	62	53	66	11.42	0.0748	23	1	100	1
9/26/2012	8:10 AM	67.6	67.6	67.6	73	58.6	2	S	0.03	4	S	67.6	68.3	68.3	30.09	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	24	1	100	1
9/26/2012	8:11 AM	67.6	67.6	67.6	73	58.6	2	S	0.03	4	SSW	67.6	68.3	68.3	30.09	0	0	0	0.002	66.6	62	53.2	66.2	11.42	0.0748	23	1	100	1
9/26/2012	8:12 AM	67.6	67.6	67.6	73	58.6	2	WSW	0.03	4	SW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	24	1	100	1
9/26/2012	8:13 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	WSW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	23	1	100	1
9/26/2012	8:14 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	5	SW	67.6	68.3	68.3	30.091	0	0	0	0.002	66.6	61	52.7	66.1	11.25	0.0748	23	1	100	1
9/26/2012	8:15 AM	67.6	67.6	67.6	73	58.6	3	SW	0.05	3	WSW	67.6	68.3	68.3	30.093	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:16 AM	67.6	67.6	67.6	73	58.6	3	WSW	0.05	5	W	67.6	68.3	68.3	30.095	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:17 AM	67.6	67.6	67.6	73	58.6	5	WSW	0.08	10	N	67.6	68.3	68.3	30.093	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	24	1	100	1
9/26/2012	8:18 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	9	S	67.6	68.2	68.2	30.09	0	0	0	0.002	66.7	61	52.8	66.2	11.25	0.0748	23	1	100	1
9/26/2012	8:19 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	10	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	62	53.3	66.3	11.42	0.0748	23	1	100	1
9/26/2012	8:20 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	8	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	64	54.1	66.5	11.72	0.0748	24	1	100	1
9/26/2012	8:21 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	8	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.7	63	53.7	66.4	11.62	0.0748	23	1	100	1
9/26/2012	8:22 AM	67.6	67.6	67.6	72	58.2	6	SW	0.1	9	W	67.6	68.2	68.2	30.094	0	0	0	0.002	66.9	62	53.5	66.6	11.41	0.0748	24	1	100	1
9/26/2012	8:23 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	6	WSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:24 AM	67.6	67.6	67.6	72	58.2	5	SW	0.08	7	SW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:25 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	7	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:26 AM	67.6	67.6	67.6	72	58.2	3	WSW	0.05	6	WSW	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	22	1	95.7	1
9/26/2012	8:27 AM	67.6	67.6	67.6	72	58.2	5	W	0.08	9	W	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:28 AM	67.6	67.6	67.6	72	58.2	5	WSW	0.08	8	WSW	67.6	68.2	68.2	30.091	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:29 AM	67.6	67.6	67.6	72	58.2	2	SW	0.03	5	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:30 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	6	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:31 AM	67.6	67.6	67.6	72	58.2	4	WSW	0.07	9	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:32 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	9	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:33 AM	67.6	67.6	67.6	72	58.2	7	W	0.12	10	W	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:34 AM	67.6	67.6	67.6	72	58.2	6	WSW	0.1	13	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	24	1	100	1
9/26/2012	8:35 AM	67.6	67.6	67.6	72	58.2	4	W	0.07	8	WSW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	65	54.7	66.9	11.91	0.0747	23	1	100	1
9/26/2012	8:36 AM	67.6	67.6	67.6	72	58.2	2	SW	0.03	5	W	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:37 AM	67.6	67.6	67.6	72	58.2	3	WNW	0.05	4	SW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	23	1	100	1
9/26/2012	8:38 AM	67.6	67.6	67.6	72	58.2	3	WNW	0.05	5	W	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	23	1	100	1
9/26/2012	8:39 AM	67.6	67.6	67.6	72	58.2	5	SSE	0.08	8	SW	67.6	68.2	68.2	30.092	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	24	1	100	1
9/26/2012	8:40 AM	67.6	67.6	67.6	72	58.2	5	SW	0.08	7	WSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	21	1	91.3	1
9/26/2012	8:41 AM	67.6	67.6	67.6	72	58.2	4	S	0.07	7	SSW	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	24	1	100	1
9/26/2012	8:42 AM	67.6	67.6	67.6	72	58.2	2	S	0.03	7	SSW	67.6	68.2	68.2	30.094	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	20	1	87	1
9/26/2012	8:43 AM	67.6	67.6	67.6	72	58.2	4	SSE	0.07	7	SE	67.6	68.2	68.2	30.093	0	0	0	0.002	66.9	64	54.3	66.8	11.71	0.0747	22	1	95.7	1
9/26/2012	8:44 AM	67.7	67.7	67.6	73	58.7	3	W	0.05	7	SW	67.7	68.4	68.4	30.094	0	0	0	0.002	66.9	63	53.9	66.7	11.61	0.0747	24	1	100	1
9/26/2012	8:45 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	5	W	67.7	68.4	68.4	30.094	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	22	1	95.7	1
9/26/2012	8:46 AM	67.7	67.7	67.7	72	58.3	3	W	0.05	11	WSW	67.7	68.4	68.4	30.093	0	0	0	0.002	67	64	54.4	66.9	11.71	0.0747	24	1	100	1
9/26/2012	8:47 AM	67.7	67.7	67.7	72	58.3	4	WSW	0.07	8	WSW	67.7	68.4	68.4	30.091	0	0	0	0.002	67	65

Meteorological Data
Equity IRM

9/26/2012	10:08 AM	68.3	68.3	68.3	73	59.3	3	SSW	0.05	5	S	68.3	69.1	69.1	30.097	0	0	0	0.002	70.4	62	56.8	69.9	11.34	0.0741	24	1	100	1
9/26/2012	10:09 AM	68.3	68.3	68.3	73	59.3	3	S	0.05	7	S	68.3	69.1	69.1	30.095	0	0	0	0.002	70.4	62	56.8	69.9	11.34	0.0741	23	1	100	1
9/26/2012	10:10 AM	68.3	68.4	68.3	73	59.3	4	W	0.07	8	W	68.3	69.1	69.1	30.094	0	0	0	0.002	70.4	63	57.2	70	11.54	0.0741	24	1	100	1
9/26/2012	10:11 AM	68.4	68.4	68.3	73	59.4	4	W	0.07	9	W	68.4	69.2	69.2	30.094	0	0	0	0.002	70.6	62	56.9	70.2	11.34	0.0741	23	1	100	1
9/26/2012	10:12 AM	68.3	68.4	68.3	73	59.3	5	W	0.08	9	WSW	68.3	69.1	69.1	30.093	0	0	0	0.002	70.6	63	57.4	70.2	11.54	0.0741	23	1	100	1
9/26/2012	10:13 AM	68.4	68.4	68.3	73	59.4	3	S	0.05	7	S	68.4	69.2	69.2	30.093	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:14 AM	68.3	68.3	68.3	73	59.3	1	S	0.02	2	WSW	68.3	69.1	69.1	30.091	0	0	0	0.002	70.7	63	57.5	70.4	11.54	0.0741	23	1	100	1
9/26/2012	10:15 AM	68.4	68.4	68.4	73	59.4	2	S	0.03	3	S	68.4	69.2	69.2	30.091	0	0	0	0.002	70.7	62	57	70.3	11.34	0.0741	24	1	100	1
9/26/2012	10:16 AM	68.5	68.5	68.4	73	59.5	3	SSW	0.05	6	SSW	68.5	69.3	69.3	30.091	0	0	0	0.002	70.9	62	57.2	70.5	11.33	0.074	23	1	100	1
9/26/2012	10:17 AM	68.5	68.5	68.5	72	59.1	3	SSW	0.05	8	WSW	68.5	69.2	69.2	30.09	0	0	0	0.002	70.9	63	57.7	70.6	11.53	0.074	23	1	100	1
9/26/2012	10:18 AM	68.6	68.6	68.5	73	59.6	2	WSW	0.03	4	SW	68.6	69.4	69.4	30.089	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	24	1	100	1
9/26/2012	10:19 AM	68.6	68.6	68.6	73	59.6	3	WNW	0.05	5	NW	68.6	69.4	69.4	30.088	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	23	1	100	1
9/26/2012	10:20 AM	68.6	68.6	68.6	73	59.6	4	SSW	0.07	7	SSE	68.6	69.4	69.4	30.088	0	0	0	0.002	71.1	62	57.4	70.8	11.33	0.074	24	1	100	1
9/26/2012	10:21 AM	68.7	68.7	68.6	73	59.7	4	SSW	0.07	7	SSW	68.7	69.5	69.5	30.086	0	0	0	0.003	71.2	61	57.1	70.9	11.2	0.074	23	1	100	1
9/26/2012	10:22 AM	68.7	68.8	68.7	72	59.3	3	SW	0.05	6	W	68.7	69.4	69.4	30.085	0	0	0	0.003	71.2	62	57.5	70.9	11.33	0.074	24	1	100	1
9/26/2012	10:23 AM	68.8	68.8	68.7	72	59.4	2	SSW	0.03	5	SSW	68.8	69.5	69.5	30.084	0	0	0	0.003	71.4	62	57.7	71.2	11.32	0.0739	23	1	100	1
9/26/2012	10:24 AM	68.8	68.8	68.8	72	59.4	3	WSW	0.05	5	WSW	68.8	69.5	69.5	30.083	0	0	0	0.003	71.4	61	57.2	71.1	11.19	0.074	22	1	95.7	1
9/26/2012	10:25 AM	68.8	68.8	68.8	72	59.4	4	SSW	0.07	6	SSW	68.8	69.5	69.5	30.084	0	0	0	0.003	71.4	61	57.2	71.1	11.19	0.074	23	1	100	1
9/26/2012	10:26 AM	68.9	68.9	68.8	72	59.5	3	SSW	0.05	5	SSW	68.9	69.5	69.5	30.084	0	0	0	0.003	71.6	61	57.4	71.4	11.19	0.0739	23	1	100	1
9/26/2012	10:27 AM	68.9	68.9	68.9	72	59.5	3	SW	0.05	5	W	68.9	69.5	69.5	30.084	0	0	0	0.003	71.6	61	57.4	71.4	11.19	0.0739	23	1	100	1
9/26/2012	10:28 AM	68.9	68.9	68.9	72	59.5	2	WSW	0.03	6	WSW	68.9	69.5	69.5	30.085	0	0	0	0.003	71.8	61	57.6	71.7	11.18	0.0739	23	1	100	1
9/26/2012	10:29 AM	68.9	68.9	68.9	73	59.9	3	WSW	0.05	7	W	68.9	69.7	69.7	30.086	0	0	0	0.003	71.8	61	57.6	71.7	11.18	0.0739	22	1	95.7	1
9/26/2012	10:30 AM	68.9	68.9	68.9	72	59.5	3	WSW	0.05	7	WSW	68.9	69.5	69.5	30.088	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	24	1	100	1
9/26/2012	10:31 AM	68.9	68.9	68.9	72	59.5	2	WSW	0.03	4	WSW	68.9	69.5	69.5	30.088	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	22	1	95.7	1
9/26/2012	10:32 AM	68.9	69	68.9	72	59.5	1	S	0.02	2	S	68.9	69.5	69.5	30.087	0	0	0	0.003	71.9	61	57.7	71.8	11.17	0.0739	24	1	100	1
9/26/2012	10:33 AM	69	69	69	72	59.6	3	S	0.05	5	SSW	69	69.6	69.6	30.086	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:34 AM	69.1	69.1	69	72	59.7	1	S	0.02	3	S	69.1	69.7	69.7	30.088	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:35 AM	69.1	69.1	69.1	72	59.7	2	SW	0.03	3	SSW	69.1	69.7	69.7	30.091	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:36 AM	69.2	69.2	69.1	72	59.8	0	SW	0	1	SW	69.2	69.8	69.8	30.096	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0739	22	1	95.7	1
9/26/2012	10:37 AM	69.2	69.2	69.2	72	59.8	2	SW	0.03	5	W	69.2	69.8	69.8	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:38 AM	69.2	69.2	69.2	72	59.8	3	W	0.05	6	W	69.2	69.8	69.8	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	22	1	95.7	1
9/26/2012	10:39 AM	69.2	69.2	69.2	72	59.8	6	WSW	0.1	8	WSW	69.2	69.8	69.8	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:40 AM	69.1	69.2	69.1	71	59.3	4	SW	0.07	6	WSW	69.1	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:41 AM	69.1	69.1	69.1	71	59.3	4	SSW	0.07	7	WSW	69.1	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:42 AM	69	69.1	69	71	59.2	3	WSW	0.05	6	NW	69	69.5	69.5	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:43 AM	69	69	69	72	59.6	3	WSW	0.05	4	WSW	69	69.6	69.6	30.097	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:44 AM	69	69	69	72	59.6	2	NNW	0.03	3	NNW	69	69.6	69.6	30.098	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	10:45 AM	69	69	69	72	59.6	1	N	0.02	2	NNW	69	69.6	69.6	30.095	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:46 AM	69	69	69	72	59.6	3	W	0.05	7	W	69	69.6	69.6	30.094	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	10:47 AM	69	69.1	69	72	59.6	5	WSW	0.08	8	WNW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:48 AM	69	69.1	69	72	59.6	4	WSW	0.07	6	SW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	23	1	100	1
9/26/2012	10:49 AM	69	69	69	72	59.6	5	SW	0.08	10	WSW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	24	1	100	1
9/26/2012	10:50 AM	69	69	69	72	59.6	4	SW	0.07	6	NW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:51 AM	69	69	69	72	59.6	3	W	0.05	4	W	69	69.6	69.6	30.092	0	0	0	0.003	72.1	60	57.4	72.1	11.01	0.0739	24	1	100	1
9/26/2012	10:52 AM	69	69	69	72	59.6	5	WSW	0.08	6	W	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:53 AM	69	69	69	72	59.6	4	WSW	0.07	9	WNW	69	69.6	69.6	30.092	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:54 AM	69	69	69	72	59.6	5	WSW	0.08	8	WSW	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:55 AM	69	69	69	72	59.6	4	WSW	0.07	6	WSW	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:56 AM	69	69	69	72	59.6	3	W	0.05	5	W	69	69.6	69.6	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	10:57 AM	69	69	69	72	59.6	3	SW	0.05	5	SW	69	69.6	69.6	30.091	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	22	1	95.7	1
9/26/2012	10:58 AM	69.1	69.1	69	72	59.7	2	WSW	0.03	3	WNW	69.1	69.7	69.7	30.089	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	10:59 AM	69.1	69.1	69.1	72	59.7	2	WSW	0.03	6	WSW	69.1	69.7	69.7	30.089	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	24	1	100	1
9/26/2012	11:00 AM	69.2	69.2	69.1	72	59.8	3	W	0.05	6	W	69.2	69.8	69.8	30.09	0	0	0	0.003	72.1	61	57.9	72.1	11.17	0.0738	23	1	100	1
9/26/2012	11:01 AM	69.2	69.2	69.2	72	59.8	4	W	0.07	7	WSW	69.2	69.8	69.8	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	11:02 AM	69.2	69.3	69.2	71	59.4	4	WNW	0.07	5	W	69.2	69.7	69.7	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	11:03 AM	69.3	69.3	69.3	72	59.9	2	WNW	0.03	4	SSW	69.3	69.8	69.8	30.089	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	24	1	100	1
9/26/2012	11:04 AM	69.3	69.3	69.3	72	59.9	2	SSW	0.03	5	WSW	69.3	69.8	69.8	30.09	0	0	0	0.003	72.3	61	58.1	72.4	11.16	0.0738	23	1	100	1
9/26/2012	11:05 AM	69.4	69.4	69.3	72	60	2	W	0.03	4	W	69.4	69.9	69.9	30.089	0	0	0	0.003	72.4	61	58.2	72.6	11.15	0.0738	24	1	100	1
9/26/2012	11:06 AM	69.5	69.5	69.4	72	60.1	3	SSW	0.05	5	SSW	69.5	70	70	30.087	0	0	0	0.003	72.4	61	58.2	72.6	11.15	0.0738	24	1	100	1
9/26/2012	11:07 AM	69.5	69.5	69.4	72	60.1	3	S	0.05	4	SSW	69.5	70	70	30.086	0	0	0	0.003	72.6	60	57.9	72.8	11	0.0738	23	1	100	1
9/26/2012	11:08 AM	69.6	69.6	69.5	71	59.8	3	SSW	0.05	6	W	69.6	69.9	69.9	30.085	0	0	0	0.003	72.6	60	57.9	72.8	11	0.0738	24	1	100	1
9/26/2012	11:09 AM	69.7	69.7	69.6	72	60.3	2	SSW	0.03	5	SSW	69.7	70.1	70.1	30.087	0	0	0	0.003	72.8	60	58.1	73.1	10.99	0.0737	23	1	100	1
9/26/2012	11:10 AM	69.8	69.8	69.7	72	60.4	5	S	0.08	7	SSE	69.8	70.2	70.2	30.089	0	0	0	0.003	72.8	60	58.1	73.1	10.99	0.0737	23	1	100	1
9/26/2012	11:11 AM	69.9	69.9	69.9	71	60.1	4	S	0.07	7	SSW	69.9	70.1	70.1	30.087	0	0	0	0.003	73	60	58.3	73.4	10.99	0.0737	24	1	100	1
9/26/2012	11:12 AM	70	70	69.9	71	60.2	6	S	0.1	9	S	70	70.2	70.2	30.089	0	0	0	0.003	73	60	58.3	73.4	10.99	0.0737	23	1	100	1
9/26/2012	11:13 AM	70.1	70.1	70	71	60.3	4	SSW	0.07	7	S	70.1	70.3	70.3	30.089	0	0	0	0.004	73.1	60	58.4	73.5	10.99	0.0737	24	1	100	1
9/26/2012	11:14 AM	70.2	70.2	70.1	71	60.4	2	SSW	0.03	7	SSW	70.2	70.5	70.5	30.089	0	0	0	0.004	73.3	60	58.6	73.8	10.98	0.0736	23	1	100	1
9/26/2012	11:15 AM	70.4	70.4	70.3	70	60.1	3	SSW	0.05	4	SSW	70.4	70.6	70.6	30.089	0	0	0	0.004	73.5	60	58.8	74.1	10.98	0.0736	24	1	100	1
9/26/2012	11:16 AM	70.5	70.5	70.4	70	60.2	3	SSE	0.05	6	S	70.5	70.8	70.8	30.088	0	0	0	0.004	73.6	60	58.9	74.2	10.98	0.0736	22	1	95.7	1
9/26/2012	11:17 AM	70.6	70.6	70.5	70	60.3	4	SSW	0.07	7	S	70.6	70.9	70.9	30.088	0	0	0	0.004	73.8	60	59	74.4	10.97	0.0736	21	1	91.3	1
9/26/2012	11:18 AM	70.6	70.6	70.6	70	60.3	5	S	0.08	9	S	70.6	70.9	70.9	30.087	0	0	0	0.004	74	60	59.2	74.7	10.97	0.0735	24	1	100	1
9/26/2012	11:19 AM	70.6	70.6	70.6	70	60.3	6	S	0.1	11	S	70.6	70.9	70.9	30.086	0	0	0	0.004	74.2	59	58.9	74.8	10.78	0.0735	22	1	95.7	1
9/26/2012	11:20 AM	70.6	70.6	70.5	70	60.3	5	SSW	0.08	8	SSE	70.6	70.9	70.9	30.083	0	0	0	0.004	74.3	59	59	75	10.78	0.0735	24	1	100	1
9/26/2012	11:21 AM	70.6	70.6	70.6	70	60.3	5	S	0.08	9	S	70.6	70.9	70.9	30.084	0	0	0	0.004	74.5	59	59.2	75.2	10.77	0.0734	22	1	95.7	1
9/26/2012	11:22 AM	70.7	70.7	70.6	69	60	4	SSE	0.07	7	SW	70.7	70.9	70.9	30.086	0	0	0	0.004	74.7	59	59.4	75.5	10.76	0.0734	23	1	100	1
9/26/2012	11:23 AM	70.7	70.7	70.7	69	60	5	SSW	0.08	7	SSW	70.7	70.9	70.9	30.087	0	0	0	0.004	74.7	59	59.4	75.5	10.76	0.0734	23	1	100	1
9/26/2012	11:24 AM	70.7	70.7	70.7	69	60	5	SSW	0.08	8	S	70.7	70.9	70.9	30.085	0	0	0	0.004	74.9	59	59.6	75.7	10.75	0.0734	23	1	100	1
9/26/2012	11:25 AM	70.8	70.8	70.7	69	60.1	8	SSE	0.13	10	SW	70.3	71	70.5	30.088	0	0	0	0.004	75	58	59.2	75.7	10.55	0.0734	23	1	100	1
9/26/2012	11:26 AM	70.9	70.9	70.8	69	60.2	5	SSE	0.08	9	S	70.9	71.2	71.2	30.084	0	0	0	0.004	75.2	58	59.4	75.9	10.54	0.0733	22	1	95.7	1
9/26/2012	11:27 AM	71	71	70.9	69	60.3	3	SW	0.05	5	SW	71	71.3	71.3	30.084	0	0	0	0.004	75.4	58	59.6	76.1	10.53	0.0733	23	1	100	1
9/26/2012	11:28 AM	71.1	71.1	71	69	60.4	4	WSW	0.07	6	WSW	71.1	71.4	71.4	30.087	0	0	0	0.004	75.4	58	59.6	76.1	10.53	0.0733	23	1	100	1
9/26/2012	11:29 AM	71.2	71.2	71.1	69	60.5	3	WSW	0.05	5	WSW	71.2	71.6	71.6	30.085	0	0	0	0.004	75.6	58	59.8	76.2	10.53	0.0733	23	1	100	1
9/26/2012	11:30 AM	71.2	71.2	71.2	69	60.5	5	S	0.08	8	SW	71.2	71.6	71.6	30.084	0	0	0	0.004	75.7	58	59.9	76.3	10.52	0.0732	24	1	100	1
9/26/2012	11:31 AM	71.2	71.2	71.2	68	60.1	4	S	0.07	8	S	71.2	71.5	71.5	30.084	0	0	0	0.004	75.9	58	60.1	76.5	10.51	0.0732	23	1	100	1
9/26/2012	11:32 AM	71.3	71.3	71.2	69	60.6	3	SE	0.05	5	SSE	71.3	71.7	71.7	30.08	0	0	0	0.004	76.1	57	59.8	76.6	10.31	0.0732	24	1	100	1
9/26/2012	11:33 AM	71.4	71.4	71.3	69	60.7	2	WNW	0.03	5	WNW	71.4	71.8	71.8	30.082	0	0	0	0.004	76.4	57	60	76.9	10.29	0.0731	23	1	100	1
9/26/2012	11:34 AM	71.5	71.5	71.4	69	60.8	1	WNW	0.02	3	SW	71.5	72	72	30.083	0	0	0	0.005	76.6	57	60.2	77.1	10.29	0.0731	23	1	100	1
9/26/2012	11:35 AM	71.6	71.6	71.5	68	60.5	5	SE	0.08	8	S	71.6	72	72	30.083	0	0	0	0.005	76.8	57	60.4	77.3	10.28	0.0731	24	1	100	1
9/26/2012	11:36 AM	71.6	71.6	71.6	68	60.5	3	SSE	0.05	8	SSE	71.6	72	72	30.081	0	0	0	0.005	77	57	60.6	77.5	10.27	0.073	23	1	100	1
9/26/2012	11:37 AM	71.7	71.7	71.6	68	60.6	6	S	0.1	11	WSW	71.7	72.1	72.1	30.078	0	0	0	0.005	77	56	60.1	77.4	10.17	0.073	24	1	100	1
9/26/2012	11:38 AM	71.7	71.7	71.7	68	60.6	2	SSW	0.03	5	W	71.7	72.1	72.1	30.081	0	0	0	0.005	77.2	56	60.3	77.6	10.16	0.073	23	1	100	1
9/26/2012	11:39 AM	71.7	71.7	71.7	68	60.6	3	SSW	0.05	5	SSW	71.7	72.1	72.1	30.082	0	0	0	0.005	77.3	56	60.4	77.8	10.16	0.073	23	1	100	1
9/26/2012	11:40 AM	71.8	71.8	71.7	68	60.7	3	S	0.05	5	SSE	71.8	72.3	72.3	30.081	0	0	0	0.005	77.5	56	60.6	78	10.15	0.073	24	1	100	1
9/26/2012	11:41 AM	71.8	71.8	71.8	68	60.7	2	S	0.03	5	W	71.8	72.3	72.3	30.084	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	23	1	100	1
9/26/2012	11:42 AM	71.8	71.9	71.8	68	60.7	5	WSW	0.08	8	WNW	71.8	72.3	72.3	30.083	0	0	0	0.005	77.7	56	60.8	78.2	10.14	0.0729	24	1	100	1
9/26/2012	11:43 AM	71.7	71.8	71.7	68	60.6	3	WSW	0.05	6	WNW	71.7	72.1	72.1	30.081	0	0	0	0.005	77.9	55	60.4	78.4	9.93	0.0729	23	1	100	1
9/26/2012	11:44 AM	71.7	71.7	71.7	68	60.6	4	SSE	0.07	7	WSW	71.7	72.1	72.1	30.081	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	24	1	100	1
9/26/2012	11:45 AM	71.6	71.7	71.6	68	60.5	5	WSW	0.08	8	WSW	71.6	72	72	30.082	0	0	0	0.005	78	55	60.5	78.5	9.93	0.0729	23	1	100	1
9/26/2012	11:46 AM	71.5	71.6	71.5	68	60.4	5	WSW	0.08	10	WSW	71.5	71.9	71.9	30.083	0	0	0	0.005	78.2	55	60.7	78.7	9.92	0.0729	23	1	100	1
9/26/2012	11:47 AM	71.4	71.5	71.4	68	60.3	3	WSW	0.05	6	WSW	71.4	71.7	71.7	30.081	0	0	0	0.004	78.2	54	60.2	78.6	9.79	0.0729	24	1	100	1
9/26/2012	11:48 AM	71.4	71.4	71.4	68	60.3	3	WSW	0.05

Meteorological Data
Equity IRM

9/26/2012	1:08 PM	74.6	74.6	74.6	64	61.6	3	SSW	0.05	7	S	74.6	75.8	75.8	30.055	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	22	1	95.7	1
9/26/2012	1:09 PM	74.6	74.6	74.6	64	61.6	3	S	0.05	6	S	74.6	75.8	75.8	30.054	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/26/2012	1:10 PM	74.7	74.7	74.7	64	61.7	5	SSW	0.08	8	SSW	74.7	75.9	75.9	30.054	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:11 PM	74.8	74.8	74.7	63	61.4	5	S	0.08	7	SSW	74.8	75.9	75.9	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:12 PM	74.9	74.9	74.9	63	61.5	5	SSE	0.08	8	S	74.9	76	76	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:13 PM	75	75	74.9	63	61.5	3	S	0.05	5	S	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:14 PM	75	75	74.9	63	61.5	3	WSW	0.05	5	WSW	75	76.1	76.1	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:15 PM	75.1	75.1	75	63	61.6	4	WSW	0.07	8	S	75.1	76.2	76.2	30.054	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:16 PM	75.2	75.2	75.1	63	61.7	5	S	0.08	8	S	75.2	76.3	76.3	30.053	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:17 PM	75.3	75.3	75.2	63	61.8	4	S	0.07	8	S	75.3	76.4	76.4	30.05	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:18 PM	75.3	75.3	75.2	62	61.4	3	S	0.05	5	SSW	75.3	76.3	76.3	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:19 PM	75.3	75.4	75.3	62	61.4	5	S	0.08	8	S	75.3	76.3	76.3	30.051	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:20 PM	75.3	75.3	75.3	62	61.4	6	SSE	0.1	8	SSE	75.3	76.3	76.3	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:21 PM	75.4	75.4	75.3	62	61.5	3	SW	0.05	5	SSW	75.4	76.4	76.4	30.049	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	24	1	100	1
9/26/2012	1:22 PM	75.4	75.4	75.3	63	61.9	1	SW	0.02	3	SW	75.4	76.5	76.5	30.051	0	0	0	0.007	83.1	49	62	84.2	8.89	0.0721	23	1	100	1
9/26/2012	1:23 PM	75.5	75.5	75.4	62	61.6	3	W	0.05	4	WSW	75.5	76.5	76.5	30.05	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	24	1	100	1
9/26/2012	1:24 PM	75.6	75.6	75.5	62	61.7	3	SSW	0.05	6	SSW	75.6	76.6	76.6	30.049	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:25 PM	75.7	75.7	75.7	62	61.8	3	S	0.05	6	SSE	75.7	76.6	76.6	30.049	0	0	0	0.007	83.3	49	62.1	84.5	8.88	0.072	23	1	100	1
9/26/2012	1:26 PM	76	76	75.8	62	62	2	SSE	0.03	4	SSE	76	76.9	76.9	30.047	0	0	0	0.008	83.5	49	62.3	84.9	8.88	0.072	24	1	100	1
9/26/2012	1:27 PM	76.2	76.2	76	62	62.2	2	WSW	0.03	5	WSW	76.2	77.1	77.1	30.048	0	0	0	0.008	83.5	49	62.3	84.9	8.88	0.072	23	1	100	1
9/26/2012	1:28 PM	76.4	76.4	76.3	61	62	2	SW	0.03	6	SW	76.4	77.2	77.2	30.047	0	0	0	0.008	83.7	49	62.5	85.2	8.88	0.072	24	1	100	1
9/26/2012	1:29 PM	76.5	76.5	76.4	61	62	3	S	0.05	7	SSW	76.5	77.3	77.3	30.047	0	0	0	0.008	83.7	49	62.5	85.2	8.88	0.072	22	1	95.7	1
9/26/2012	1:30 PM	76.7	76.7	76.5	61	62.2	2	S	0.03	6	S	76.7	77.6	77.6	30.046	0	0	0	0.008	83.9	48	62.1	85.4	8.77	0.0719	24	1	100	1
9/26/2012	1:31 PM	76.7	76.7	76.6	61	62.2	4	S	0.07	6	S	76.7	77.6	77.6	30.046	0	0	0	0.008	83.9	48	62.1	85.4	8.77	0.0719	23	1	100	1
9/26/2012	1:32 PM	76.8	76.8	76.7	60	61.9	1	S	0.02	3	S	76.8	77.6	77.6	30.045	0	0	0	0.008	84.1	48	62.3	85.6	8.77	0.0719	23	1	100	1
9/26/2012	1:33 PM	76.7	76.8	76.7	60	61.8	4	W	0.07	6	WSW	76.7	77.5	77.5	30.044	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	24	1	100	1
9/26/2012	1:34 PM	76.6	76.7	76.6	60	61.7	2	W	0.03	4	W	76.6	77.4	77.4	30.042	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	23	1	100	1
9/26/2012	1:35 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	7	S	76.6	77.4	77.4	30.04	0	0	0	0.008	84.3	48	62.5	85.8	8.76	0.0719	24	1	100	1
9/26/2012	1:36 PM	76.7	76.7	76.6	61	62.2	4	S	0.07	5	S	76.7	77.6	77.6	30.042	0	0	0	0.008	84.5	48	62.7	86	8.76	0.0718	23	1	100	1
9/26/2012	1:37 PM	76.7	76.7	76.7	60	61.8	4	SSE	0.07	7	SSE	76.7	77.5	77.5	30.041	0	0	0	0.008	84.5	48	62.7	86	8.76	0.0718	23	1	100	1
9/26/2012	1:38 PM	76.8	76.8	76.7	60	61.9	3	S	0.05	5	SSE	76.8	77.6	77.6	30.039	0	0	0	0.008	84.7	48	62.8	86.2	8.76	0.0718	24	1	100	1
9/26/2012	1:39 PM	77	77	76.9	61	62.5	3	SSW	0.05	7	S	77	77.9	77.9	30.042	0	0	0	0.008	84.9	48	63	86.4	8.75	0.0718	21	1	91.3	1
9/26/2012	1:40 PM	77	77	77	60	62	4	S	0.07	6	S	77	77.8	77.8	30.043	0	0	0	0.008	84.9	48	63	86.4	8.75	0.0718	24	1	100	1
9/26/2012	1:41 PM	77.1	77.1	77	60	62.1	2	WSW	0.03	5	SW	77.1	77.9	77.9	30.041	0	0	0	0.008	85.1	48	63.2	86.6	8.75	0.0717	22	1	95.7	1
9/26/2012	1:42 PM	77.1	77.1	77.1	59	61.7	2	SW	0.03	4	W	77.1	77.8	77.8	30.042	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:43 PM	77.1	77.1	77.1	60	62.1	2	SW	0.03	3	SW	77.1	77.9	77.9	30.042	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	22	1	95.7	1
9/26/2012	1:44 PM	77.1	77.1	77.1	60	62.1	2	SSE	0.03	4	S	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:45 PM	77.1	77.1	77.1	60	62.1	4	W	0.07	6	SW	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	24	1	100	1
9/26/2012	1:46 PM	77.1	77.1	77	60	62.1	2	W	0.03	4	W	77.1	77.9	77.9	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:47 PM	77	77	77	60	62	2	SSW	0.03	6	WSW	77	77.8	77.8	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	24	1	100	1
9/26/2012	1:48 PM	77	77	77	59	61.6	2	SSW	0.03	3	SSW	77	77.7	77.7	30.042	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	22	1	95.7	1
9/26/2012	1:49 PM	77	77	77	59	61.6	4	SSW	0.07	7	SSW	77	77.7	77.7	30.041	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	23	1	100	1
9/26/2012	1:50 PM	76.9	77	76.9	59	61.5	3	SSW	0.05	5	SSW	76.9	77.6	77.6	30.039	0	0	0	0.008	85.5	47	63	86.9	8.54	0.0717	23	1	100	1
9/26/2012	1:51 PM	77	77	77	59	61.6	5	W	0.08	8	W	77	77.7	77.7	30.039	0	0	0	0.008	85.5	46	62.4	86.7	8.44	0.0717	23	1	100	1
9/26/2012	1:52 PM	76.9	76.9	76.9	60	62	4	WSW	0.07	6	WSW	76.9	77.7	77.7	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:53 PM	76.8	76.9	76.8	60	61.9	4	SW	0.07	5	WSW	76.8	77.6	77.6	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	23	1	100	1
9/26/2012	1:54 PM	76.7	76.7	76.7	60	61.8	3	WSW	0.05	8	W	76.7	77.5	77.5	30.038	0	0	0	0.008	85.3	47	62.8	86.7	8.54	0.0717	24	1	100	1
9/26/2012	1:55 PM	76.6	76.7	76.6	60	61.7	3	WNW	0.05	9	NW	76.6	77.4	77.4	30.038	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	23	1	100	1
9/26/2012	1:56 PM	76.6	76.6	76.6	60	61.7	6	WSW	0.1	11	WSW	76.6	77.4	77.4	30.039	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	23	1	100	1
9/26/2012	1:57 PM	76.5	76.6	76.5	60	61.6	6	W	0.1	10	W	76.5	77.3	77.3	30.039	0	0	0	0.008	85.1	47	62.6	86.4	8.55	0.0717	24	1	100	1
9/26/2012	1:58 PM	76.3	76.5	76.3	60	61.4	6	WSW	0.1	9	WSW	76.3	77	77	30.04	0	0	0	0.008	85.1	46	62	86.3	8.45	0.0718	23	1	100	1
9/26/2012	1:59 PM	76.1	76.3	76.1	61	61.7	5	WSW	0.08	6	SW	76.1	76.9	76.9	30.039	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:00 PM	76	76.1	76	61	61.6	7	WNW	0.12	10	WNW	76	76.8	76.8	30.037	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:01 PM	76	76	76	61	61.6	4	SW	0.07	8	NW	76	76.8	76.8	30.037	0	0	0	0.008	84.9	47	62.4	86.2	8.55	0.0718	23	1	100	1
9/26/2012	2:02 PM	76	76	76	62	62	4	SW	0.07	5	NW	76	76.9	76.9	30.035	0	0	0	0.008	84.7	47	62.2	86	8.56	0.0718	24	1	100	1
9/26/2012	2:03 PM	76	76	76	61	61.6	4	S	0.07	7	S	76	76.8	76.8	30.034	0	0	0	0.008	84.7	47	62.2	86	8.56	0.0718	23	1	100	1
9/26/2012	2:04 PM	76.1	76.1	76	61	61.7	3	SSW	0.05	7	S	76.1	76.9	76.9	30.032	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	24	1	100	1
9/26/2012	2:05 PM	76.3	76.3	76.2	61	61.9	7	S	0.12	12	SW	76.3	77.1	77.1	30.032	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:06 PM	76.5	76.5	76.3	61	62	4	SSW	0.07	9	SW	76.5	77.3	77.3	30.035	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	24	1	100	1
9/26/2012	2:07 PM	76.6	76.6	76.5	60	61.7	2	S	0.03	7	SSW	76.6	77.4	77.4	30.037	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:08 PM	76.7	76.7	76.6	60	61.8	4	S	0.07	9	SW	76.7	77.5	77.5	30.038	0	0	0	0.008	84.5	47	62.1	85.8	8.56	0.0718	23	1	100	1
9/26/2012	2:09 PM	76.8	76.8	76.7	60	61.9	3	S	0.05	6	S	76.8	77.6	77.6	30.037	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	24	1	100	1
9/26/2012	2:10 PM	76.9	76.9	76.9	60	62	5	SW	0.08	7	SW	76.9	77.7	77.7	30.036	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:11 PM	77	77	76.9	59	61.6	4	WSW	0.07	6	W	77	77.7	77.7	30.037	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	24	1	100	1
9/26/2012	2:12 PM	76.9	77	76.9	59	61.5	6	WSW	0.1	8	WSW	76.9	77.6	77.6	30.035	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:13 PM	76.8	76.9	76.8	60	61.9	4	WSW	0.07	6	SSW	76.8	77.6	77.6	30.036	0	0	0	0.008	84.3	47	61.9	85.7	8.56	0.0719	23	1	100	1
9/26/2012	2:14 PM	76.7	76.8	76.7	60	61.8	3	W	0.05	5	WSW	76.7	77.5	77.5	30.036	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	24	1	100	1
9/26/2012	2:15 PM	76.7	76.8	76.7	60	61.8	5	WSW	0.08	8	W	76.7	77.5	77.5	30.034	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	23	1	100	1
9/26/2012	2:16 PM	76.7	76.7	76.7	60	61.8	4	W	0.07	7	W	76.7	77.5	77.5	30.037	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	24	1	100	1
9/26/2012	2:17 PM	76.7	76.7	76.7	60	61.8	5	SSW	0.08	8	S	76.7	77.5	77.5	30.037	0	0	0	0.008	84.1	47	61.7	85.5	8.57	0.0719	23	1	100	1
9/26/2012	2:18 PM	76.7	76.8	76.7	59	61.3	5	W	0.08	8	SSW	76.7	77.4	77.4	30.036	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.0719	23	1	100	1
9/26/2012	2:19 PM	76.7	76.7	76.7	60	61.8	7	W	0.12	10	W	76.7	77.5	77.5	30.036	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.0719	24	1	100	1
9/26/2012	2:20 PM	76.6	76.7	76.6	60	61.7	3	SSW	0.05	7	SSW	76.6	77.4	77.4	30.038	0	0	0	0.008	83.9	47	61.5	85.2	8.57	0.072	23	1	100	1
9/26/2012	2:21 PM	76.6	76.7	76.6	60	61.7	3	SSW	0.05	6	SSW	76.6	77.4	77.4	30.036	0	0	0	0.008	83.7	47	61.3	84.9	8.58	0.072	24	1	100	1
9/26/2012	2:22 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	8	WSW	76.6	77.4	77.4	30.035	0	0	0	0.008	83.7	47	61.3	84.9	8.58	0.072	23	1	100	1
9/26/2012	2:23 PM	76.6	76.6	76.6	60	61.7	5	SSW	0.08	8	WNW	76.6	77.4	77.4	30.034	0	0	0	0.008	83.5	47	61.1	84.6	8.58	0.072	24	1	100	1
9/26/2012	2:24 PM	76.6	76.6	76.6	60	61.7	4	S	0.07	7	W	76.6	77.4	77.4	30.032	0	0	0	0.008	83.5	47	61.1	84.6	8.58	0.072	22	1	95.7	1
9/26/2012	2:25 PM	76.6	76.6	76.6	60	61.7	4	SW	0.07	8	W	76.6	77.4	77.4	30.032	0	0	0	0.008	83.3	48	61.6	84.4	8.78	0.072	23	1	100	1
9/26/2012	2:26 PM	76.5	76.6	76.5	60	61.6	5	S	0.08	7	WSW	76.5	77.3	77.3	30.033	0	0	0	0.008	83.1	48	61.4	84.1	8.79	0.0721	23	1	100	1
9/26/2012	2:27 PM	76.5	76.5	76.5	60	61.6	5	W	0.08	10	WSW	76.5	77.3	77.3	30.034	0	0	0	0.008	83.1	48	61.4	84.1	8.79	0.0721	22	1	95.7	1
9/26/2012	2:28 PM	76.4	76.4	76.4	60	61.5	6	W	0.1	10	W	76.4	77.1	77.1	30.031	0	0	0	0.008	82.9	48	61.2	83.8	8.79	0.0721	24	1	100	1
9/26/2012	2:29 PM	76.3	76.4	76.3	60	61.4	3	S	0.05	5	WSW	76.3	77	77	30.031	0	0	0	0.008	82.7	48	61	83.4	8.8	0.0721	22	1	95.7	1
9/26/2012	2:30 PM	76.2	76.3	76.2	61	61.8	4	S	0.07	7	WSW	76.2	77	77	30.03	0	0	0	0.008	82.7	48	61	83.4	8.8	0.0721	23	1	100	1
9/26/2012	2:31 PM	76.2	76.3	76.2	61	61.8	4	S	0.07	6	SW	76.2	77	77	30.029	0	0	0	0.008	82.5	48	60.8	83.1	8.8	0.0721	23	1	100	1
9/26/2012	2:32 PM	76.3	76.3	76.3	61	61.9	3	NW	0.05	5	NW	76.3	77.1	77.1	30.03	0	0	0	0.008	82.5	48	60.8	83.1	8.8	0.0722	23	1	100	1
9/26/2012	2:33 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	5	S	76.3	77.1	77.1	30.031	0	0	0	0.008	82.3	48	60.6	82.8	8.8	0.0722	23	1	100	1
9/26/2012	2:34 PM	76.3	76.3	76.3	61	61.9	2	S	0.03	8	SSE	76.3	77.1	77.1	30.031	0	0	0	0.008	82.3	49	61.2	82.9	8.9	0.0722	23	1	100	1
9/26/2012	2:35 PM	76.3	76.3	76.3	61	61.9	5	SSW	0.08	11	S	76.3	77.1	77.1	30.03	0	0	0	0.008	82.1	49	61	82.6	8.91	0.0722	23	1	100	1
9/26/2012	2:36 PM	76.3	76.3	76.3	61	61.9	2	SSW	0.03	5	SSW	76.3	77.1	77.1	30.029	0	0	0	0.008	82.1	49	61	82.6	8.91	0.0722	23	1	100	1
9/26/2012	2:37 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	4	SW	76.3	77.1	77.1	30.029	0	0	0	0.008	82	49	61	82.5	8.91	0.0722	23	1	100	1
9/26/2012	2:38 PM	76.3	76.3	76.3	61	61.9	3	S	0.05	7	SW	76.3	77.1	77.1	30.029	0	0	0	0.008	82	49	61	82.5	8.91	0.0722	24	1	100	1
9/26/2012	2:39 PM	76.2	76.3	76.2	61	61.8	4	W	0.07	7	W	76.2	77	77	30.027	0	0	0	0.008	81.8	49	60.8	82.2	8.91	0.0722	23	1	100	1
9/26/2012	2:40 PM	76.2	76.2	76.2	61	61.8	4	S	0.07	6	S	76.2	77	77	30.025	0	0	0	0.008	81.8	49	60.8	82.2	8.91	0.0722	24	1	100	1
9/26/2012	2:41 PM	76.1	76.2	76.1	61	61.7	4	SW	0.07	9	W	76.1	76.9	76.9	30.031	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:42 PM	76.1	76.1	76.1	61	61.7	4	WSW	0.07	6	SW	76.1	76.9	76.9	30.028	0	0	0	0.008	81.6	49	60.6	81.9	8.92	0.0723	23	1	100	1
9/26/2012	2:43 PM	76	76.1	76	61	61.6	2	SSW	0.03	3	SSW	76	76.8	76.8	30.029	0	0	0	0.008	81.4	49	60.4	81.6	8.92	0.0723	24	1	100	1
9/26/2012	2:44 PM	76	76.1	76	61	61.6	4	S	0.07	7	S	76	76.8	76.8	30.026	0	0	0	0.008	81.4	50	61	81.8	9.12	0.0723	23	1	100	1
9/26/2012	2:45 PM	76	76	76	61	61.6	4	SW	0.07	8	SW	76	76.8	76.8	30.024	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	24	1	100	1
9/26/2012	2:46 PM	75.9	76	75.9	61	61.5	3	S	0.05	7	S	75.9	76.7	76.7	30.025	0	0	0	0.008	81.2	50	60.8	81.5	9.13	0.0723	23	1	100	1
9/26/2012	2:47 PM	75.9	76	75.9	62	61.9	2	NW	0.03	4	WNW	75.9	76.8	76.8	30.025	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0723	24	1	100	1
9/26/2012	2:48 PM	75.9	75.9	75.9	61	61.5	5	S	0.08	8	WSW	75.9	76.7	76.7	30.026	0	0	0	0.008	81	50	60.6	81.2	9.13	0.0724	23	1	100	1

Meteorological Data
Equity IRM

9/26/2012	4:08 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	2	SSE	74.5	76.1	76.1	30.013	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	21	1	91.3	1
9/26/2012	4:09 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	3	SSE	74.5	76.1	76.1	30.012	0	0	0	0.007	79.7	54	61.6	80.3	9.76	0.0724	24	1	100	1
9/26/2012	4:10 PM	74.5	74.5	74.5	69	63.7	2	SSE	0.03	4	SSE	74.5	76.1	76.1	30.012	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	22	1	95.7	1
9/26/2012	4:11 PM	74.4	74.5	74.4	69	63.6	4	SSE	0.07	5	SSE	74.4	76	76	30.011	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	21	1	91.3	1
9/26/2012	4:12 PM	74.4	74.4	74.4	70	64	3	SE	0.05	4	SE	74.4	76	76	30.01	0	0	0	0.007	79.5	54	61.4	80	9.76	0.0725	24	1	100	1
9/26/2012	4:13 PM	74.4	74.5	74.4	70	64	3	SE	0.05	5	SE	74.4	76	76	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:14 PM	74.4	74.4	74.4	70	64	2	SE	0.03	3	SE	74.4	76	76	30.006	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	24	1	100	1
9/26/2012	4:15 PM	74.5	74.5	74.4	70	64.1	3	SSW	0.05	5	SSW	74.5	76.1	76.1	30.009	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:16 PM	74.5	74.5	74.4	70	64.1	2	SSW	0.03	3	SSW	74.5	76.1	76.1	30.007	0	0	0	0.007	79.3	54	61.2	79.8	9.76	0.0725	23	1	100	1
9/26/2012	4:17 PM	74.4	74.4	74.4	70	64	0	SSW	0	1	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:18 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	2	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	23	1	100	1
9/26/2012	4:19 PM	74.4	74.4	74.4	70	64	1	SSW	0.02	3	SSW	74.4	76	76	30.008	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	24	1	100	1
9/26/2012	4:20 PM	74.4	74.4	74.4	70	64	2	SSW	0.03	3	SSW	74.4	76	76	30.007	0	0	0	0.007	79.2	54	61.1	79.7	9.77	0.0725	23	1	100	1
9/26/2012	4:21 PM	74.5	74.5	74.4	70	64.1	2	SSW	0.03	3	SSW	74.5	76.1	76.1	30.007	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	24	1	100	1
9/26/2012	4:22 PM	74.4	74.4	74.4	70	64	0	SSW	0	2	SSW	74.4	76	76	30.006	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	22	1	95.7	1
9/26/2012	4:23 PM	74.4	74.5	74.4	71	64.4	2	SSW	0.03	3	SSW	74.4	76.1	76.1	30.007	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	23	1	100	1
9/26/2012	4:24 PM	74.5	74.5	74.4	71	64.5	2	SSW	0.03	3	SSW	74.5	76.2	76.2	30.01	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	24	1	100	1
9/26/2012	4:25 PM	74.5	74.5	74.4	71	64.5	1	SSW	0.02	2	SSW	74.5	76.2	76.2	30.01	0	0	0	0.007	79	54	60.9	79.5	9.77	0.0726	23	1	100	1
9/26/2012	4:26 PM	74.5	74.5	74.4	71	64.5	0	SSW	0	1	SSW	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	24	1	100	1
9/26/2012	4:27 PM	74.5	74.5	74.5	71	64.5	2	S	0.03	3	S	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	23	1	100	1
9/26/2012	4:28 PM	74.5	74.5	74.5	71	64.5	2	SSE	0.03	3	SSE	74.5	76.2	76.2	30.011	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	22	1	95.7	1
9/26/2012	4:29 PM	74.5	74.5	74.5	71	64.5	1	SSE	0.02	3	SSE	74.5	76.2	76.2	30.012	0	0	0	0.007	78.8	54	60.7	79.3	9.77	0.0726	23	1	100	1
9/26/2012	4:30 PM	74.6	74.6	74.5	71	64.6	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.013	0	0	0	0.007	78.6	54	60.6	79.1	9.78	0.0726	23	1	100	1
9/26/2012	4:31 PM	74.6	74.6	74.5	70	64.2	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.012	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	24	1	100	1
9/26/2012	4:32 PM	74.6	74.6	74.6	70	64.2	1	SSE	0.02	2	SSE	74.6	76.3	76.3	30.011	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	23	1	100	1
9/26/2012	4:33 PM	74.6	74.6	74.6	70	64.2	2	SSE	0.03	3	SSE	74.6	76.3	76.3	30.011	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	24	1	100	1
9/26/2012	4:34 PM	74.6	74.6	74.6	70	64.2	1	SSE	0.02	2	SSE	74.6	76.3	76.3	30.012	0	0	0	0.007	78.6	55	61.1	79.2	9.91	0.0726	23	1	100	1
9/26/2012	4:35 PM	74.6	74.6	74.6	70	64.2	0	---	0	0	---	74.6	76.3	76.3	30.013	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	23	1	100	1
9/26/2012	4:36 PM	74.7	74.7	74.6	70	64.3	0	---	0	0	---	74.7	76.4	76.4	30.012	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	24	1	100	1
9/26/2012	4:37 PM	74.7	74.7	74.7	70	64.3	0	SSE	0	1	SSE	74.7	76.4	76.4	30.012	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	22	1	95.7	1
9/26/2012	4:38 PM	74.7	74.7	74.7	70	64.3	0	---	0	0	---	74.7	76.4	76.4	30.011	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0727	24	1	100	1
9/26/2012	4:39 PM	74.8	74.8	74.7	70	64.4	0	---	0	0	---	74.8	76.5	76.5	30.01	0	0	0	0.007	78.4	55	60.9	78.9	9.91	0.0726	23	1	100	1
9/26/2012	4:40 PM	74.8	74.8	74.8	69	63.9	0	SSE	0	1	SSE	74.8	76.4	76.4	30.009	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	23	1	100	1
9/26/2012	4:41 PM	74.9	74.9	74.8	71	64.9	0	SSE	0	1	SSE	74.9	76.7	76.7	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:42 PM	74.9	74.9	74.9	70	64.5	0	---	0	0	---	74.9	76.6	76.6	30.01	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	22	1	95.7	1
9/26/2012	4:43 PM	74.9	74.9	74.9	70	64.5	0	SSE	0	1	SSE	74.9	76.6	76.6	30.01	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:44 PM	75	75	74.9	68	63.7	2	SW	0.03	5	SSW	75	76.5	76.5	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	22	1	95.7	1
9/26/2012	4:45 PM	75	75	75	67	63.3	4	WSW	0.07	5	SW	75	76.5	76.5	30.011	0	0	0	0.007	78.2	55	60.7	78.7	9.92	0.0727	24	1	100	1
9/26/2012	4:46 PM	75.1	75.1	75	67	63.4	2	WSW	0.03	4	WSW	75.1	76.6	76.6	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	23	1	100	1
9/26/2012	4:47 PM	75.2	75.2	75.1	69	64.3	3	NW	0.05	4	W	75.2	76.8	76.8	30.013	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	22	1	95.7	1
9/26/2012	4:48 PM	75.2	75.2	75.2	69	64.3	0	NW	0	1	NW	75.2	76.8	76.8	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	24	1	100	1
9/26/2012	4:49 PM	75.2	75.2	75.2	68	63.9	1	NW	0.02	2	NW	75.2	76.7	76.7	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	22	1	95.7	1
9/26/2012	4:50 PM	75.2	75.2	75.2	69	64.3	2	NW	0.03	4	NW	75.2	76.8	76.8	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	24	1	100	1
9/26/2012	4:51 PM	75.2	75.3	75.2	68	63.9	3	NW	0.05	5	NW	75.2	76.7	76.7	30.012	0	0	0	0.007	78	55	60.5	78.5	9.93	0.0727	21	1	91.3	1
9/26/2012	4:52 PM	75.1	75.2	75.1	68	63.8	3	WSW	0.05	4	NNW	75.1	76.6	76.6	30.012	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	23	1	100	1
9/26/2012	4:53 PM	75.1	75.2	75.1	67	63.4	2	N	0.03	5	NNW	75.1	76.6	76.6	30.013	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	23	1	100	1
9/26/2012	4:54 PM	75	75.1	75	66	62.9	2	N	0.03	5	N	75	76.4	76.4	30.014	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	22	1	95.7	1
9/26/2012	4:55 PM	75.1	75.1	75.1	66	63	1	NNE	0.02	3	N	75.1	76.5	76.5	30.013	0	0	0	0.007	77.9	55	60.4	78.4	9.93	0.0727	24	1	100	1
9/26/2012	4:56 PM	75.1	75.1	75	66	63	3	SW	0.05	6	WSW	75.1	76.5	76.5	30.013	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	22	1	95.7	1
9/26/2012	4:57 PM	75.1	75.1	75.1	66	63	3	SW	0.05	5	SW	75.1	76.5	76.5	30.013	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	23	1	100	1
9/26/2012	4:58 PM	75.1	75.1	75.1	66	63	3	SW	0.05	5	SW	75.1	76.5	76.5	30.014	0	0	0	0.007	77.7	55	60.2	78.1	9.94	0.0728	23	1	100	1
9/26/2012	4:59 PM	75.2	75.2	75.1	66	63.1	1	SW	0.02	3	SW	75.2	76.6	76.6	30.013	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:00 PM	75.2	75.2	75.2	66	63.1	2	SW	0.03	4	WSW	75.2	76.6	76.6	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:01 PM	75.2	75.2	75.2	66	63.1	1	WSW	0.02	3	WSW	75.2	76.6	76.6	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	23	1	100	1
9/26/2012	5:02 PM	75.2	75.2	75.2	67	63.5	3	WSW	0.05	4	WSW	75.2	76.7	76.7	30.015	0	0	0	0.007	77.5	55	60.1	77.9	9.95	0.0728	24	1	100	1
9/26/2012	5:03 PM	75.2	75.2	75.2	66	63.1	1	NNW	0.02	2	NNW	75.2	76.6	76.6	30.016	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	23	1	100	1
9/26/2012	5:04 PM	75.1	75.1	75.1	66	63	1	NNW	0.02	4	NW	75.1	76.5	76.5	30.018	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	23	1	100	1
9/26/2012	5:05 PM	75.1	75.1	75.1	66	63	2	SW	0.03	3	NW	75.1	76.5	76.5	30.021	0	0	0	0.007	77.3	55	59.9	77.7	9.96	0.0729	24	1	100	1
9/26/2012	5:06 PM	75.1	75.1	75.1	66	63	2	SSW	0.03	3	SW	75.1	76.5	76.5	30.02	0	0	0	0.007	77.2	55	59.8	77.5	9.96	0.0729	23	1	100	1
9/26/2012	5:07 PM	75.1	75.1	75.1	66	63	2	SSW	0.03	4	SSW	75.1	76.5	76.5	30.021	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	24	1	100	1
9/26/2012	5:08 PM	75.1	75.1	75.1	66	63	2	W	0.03	5	W	75.1	76.5	76.5	30.022	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	23	1	100	1
9/26/2012	5:09 PM	75.1	75.1	75.1	66	63	2	WNW	0.03	4	WNW	75.1	76.5	76.5	30.022	0	0	0	0.007	77.2	56	60.3	77.6	10.16	0.0729	23	1	100	1
9/26/2012	5:10 PM	75.1	75.1	75.1	66	63	2	W	0.03	6	W	75.1	76.5	76.5	30.02	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	24	1	100	1
9/26/2012	5:11 PM	75.2	75.2	75.1	66	63.1	2	W	0.03	8	NNW	75.2	76.6	76.6	30.021	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	22	1	95.7	1
9/26/2012	5:12 PM	75.2	75.2	75.1	65	62.6	5	WNW	0.08	8	NNW	75.2	76.5	76.5	30.022	0	0	0	0.007	77	56	60.1	77.4	10.17	0.0729	24	1	100	1
9/26/2012	5:13 PM	75.2	75.2	75.2	65	62.6	3	W	0.05	8	N	75.2	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:14 PM	75.2	75.2	75.2	65	62.6	4	NW	0.07	7	N	75.2	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	24	1	100	1
9/26/2012	5:15 PM	75.3	75.3	75.3	64	62.3	5	WNW	0.08	10	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:16 PM	75.3	75.3	75.3	64	62.3	5	N	0.08	9	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.8	56	59.9	77.2	10.18	0.0729	23	1	100	1
9/26/2012	5:17 PM	75.4	75.4	75.3	64	62.4	4	NW	0.07	7	WSW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	24	1	100	1
9/26/2012	5:18 PM	75.4	75.4	75.3	64	62.4	3	WSW	0.05	7	WSW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:19 PM	75.4	75.4	75.4	64	62.4	5	W	0.08	7	WNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:20 PM	75.5	75.5	75.4	63	62	6	WSW	0.1	12	WSW	75.5	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:21 PM	75.5	75.5	75.5	63	62	4	NW	0.07	8	WNW	75.5	76.6	76.6	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	23	1	100	1
9/26/2012	5:22 PM	75.5	75.5	75.5	64	62.5	4	NW	0.07	6	NNW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.6	56	59.7	77	10.19	0.073	24	1	100	1
9/26/2012	5:23 PM	75.5	75.5	75.5	64	62.5	2	NW	0.03	5	WNW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:24 PM	75.5	75.5	75.5	64	62.5	2	NW	0.03	9	NNE	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:25 PM	75.5	75.5	75.5	64	62.5	5	NNW	0.08	9	NNW	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:26 PM	75.5	75.5	75.5	64	62.5	4	NNW	0.07	8	SW	75.5	76.7	76.7	30.024	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:27 PM	75.5	75.5	75.5	64	62.5	2	N	0.03	4	SW	75.5	76.7	76.7	30.022	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:28 PM	75.5	75.5	75.4	64	62.5	1	SW	0.02	3	SW	75.5	76.7	76.7	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	23	1	100	1
9/26/2012	5:29 PM	75.4	75.5	75.4	64	62.4	2	SW	0.03	5	WNW	75.4	76.6	76.6	30.023	0	0	0	0.007	76.4	56	59.5	76.8	10.19	0.073	24	1	100	1
9/26/2012	5:30 PM	75.4	75.4	75.4	64	62.4	3	NNW	0.05	5	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	23	1	100	1
9/26/2012	5:31 PM	75.4	75.4	75.4	64	62.4	3	N	0.05	5	NNW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	24	1	100	1
9/26/2012	5:32 PM	75.4	75.4	75.4	64	62.4	2	NE	0.03	6	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	22	1	95.7	1
9/26/2012	5:33 PM	75.3	75.4	75.3	64	62.3	2	NW	0.03	5	NW	75.3	76.5	76.5	30.022	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	23	1	100	1
9/26/2012	5:34 PM	75.4	75.4	75.3	64	62.4	4	NNW	0.07	7	NNW	75.4	76.6	76.6	30.021	0	0	0	0.007	76.3	56	59.4	76.7	10.2	0.073	24	1	100	1
9/26/2012	5:35 PM	75.4	75.4	75.3	64	62.4	3	NNW	0.05	5	NNW	75.4	76.6	76.6	30.022	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:36 PM	75.3	75.3	75.3	64	62.3	2	NNW	0.03	3	NNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:37 PM	75.3	75.3	75.3	65	62.7	0	NNW	0	1	NNW	75.3	76.6	76.6	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:38 PM	75.3	75.3	75.3	64	62.3	1	NNW	0.02	3	NNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	24	1	100	1
9/26/2012	5:39 PM	75.3	75.3	75.3	64	62.3	4	N	0.07	5	WNW	75.3	76.5	76.5	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	22	1	95.7	1
9/26/2012	5:40 PM	75.2	75.3	75.2	64	62.2	3	WSW	0.05	5	N	75.2	76.4	76.4	30.023	0	0	0	0.007	76.1	56	59.3	76.5	10.21	0.0731	23	1	100	1
9/26/2012	5:41 PM	75.2	75.2	75.2	64	62.2	5	NNW	0.08	8	NW	75.2	76.4	76.4	30.025	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:42 PM	75.2	75.2	75.2	64	62.2	3	N	0.05	5	NW	75.2	76.4	76.4	30.027	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:43 PM	75.2	75.2	75.2	64	62.2	2	W	0.03	5	W	75.2	76.4	76.4	30.029	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:44 PM	75.2	75.2	75.2	63	61.7	2	SSW	0.03	5	W	75.2	76.3	76.3	30.028	0	0	0	0.007	75.9	56	59.1	76.3	10.21	0.0731	23	1	100	1
9/26/2012	5:45 PM	75.2	75.3	75.2	64	62.2	2	W	0.03	3	SW	75.2	76.4	76.4	30.029	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	22	1	95.7	1
9/26/2012	5:46 PM	75.2	75.2	75.2	64	62.2	3	W	0.05	7	WNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9	76.1	10.22	0.0732	23	1	100	1
9/26/2012	5:47 PM	75.2	75.2	75.2	64	62.2	2	SW	0.03	4	NNW	75.2	76.4	76.4	30.028	0	0	0	0.007	75.7	56	58.9

Meteorological Data
Equity IRM

9/26/2012	7:08 PM	71	71.1	71	77	63.4	3	WSW	0.05	5	WSW	71	72	72	30.045	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	24	1	100	1
9/26/2012	7:09 PM	71.1	71.1	71	77	63.5	3	WSW	0.05	5	WSW	71.1	72.1	72.1	30.047	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	23	1	100	1
9/26/2012	7:10 PM	71	71.1	71	77	63.4	4	WSW	0.07	6	WSW	71	72	72	30.046	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	24	1	100	1
9/26/2012	7:11 PM	71	71	71	77	63.4	1	W	0.02	3	W	71	72	72	30.044	0	0	0	0.004	72.3	59	57.2	72.3	10.86	0.0737	23	1	100	1
9/26/2012	7:12 PM	71.1	71.1	71	77	63.5	0	W	0	1	W	71.1	72.1	72.1	30.043	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:13 PM	71	71.1	71	78	63.8	3	WSW	0.05	5	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:14 PM	71	71.1	71	78	63.8	2	WSW	0.03	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	23	1	100	1
9/26/2012	7:15 PM	71	71	71	78	63.8	3	NNE	0.05	4	WSW	71	72.1	72.1	30.044	0	0	0	0.004	72.1	59	57	72	10.87	0.0738	24	1	100	1
9/26/2012	7:16 PM	71	71	71	78	63.8	3	SW	0.05	6	SW	71	72.1	72.1	30.044	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:17 PM	71	71	71	77	63.4	3	WSW	0.05	5	SW	71	72	72	30.043	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	24	1	100	1
9/26/2012	7:18 PM	71	71	71	77	63.4	5	WSW	0.08	7	WSW	71	72	72	30.042	0	0	0	0.004	71.9	59	56.8	71.7	10.87	0.0738	22	1	95.7	1
9/26/2012	7:19 PM	71.1	71.1	71	77	63.5	5	W	0.08	7	W	71.1	72.1	72.1	30.044	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:20 PM	71.1	71.1	71.1	78	63.9	2	W	0.03	5	W	71.1	72.2	72.2	30.047	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	23	1	100	1
9/26/2012	7:21 PM	71.1	71.1	71.1	77	63.5	5	W	0.08	8	NW	71.1	72.1	72.1	30.044	0	0	0	0.004	71.8	59	56.7	71.5	10.88	0.0738	22	1	95.7	1
9/26/2012	7:22 PM	71.2	71.2	71.1	77	63.6	2	NW	0.03	5	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	24	1	100	1
9/26/2012	7:23 PM	71.2	71.2	71.2	77	63.6	5	W	0.08	8	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	22	1	95.7	1
9/26/2012	7:24 PM	71.2	71.2	71.2	77	63.6	4	W	0.07	8	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.6	59	56.5	71.3	10.89	0.0739	24	1	100	1
9/26/2012	7:25 PM	71.2	71.2	71.2	77	63.6	1	W	0.02	2	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	22	1	95.7	1
9/26/2012	7:26 PM	71.2	71.2	71.2	77	63.6	2	W	0.03	4	W	71.2	72.2	72.2	30.045	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	23	1	100	1
9/26/2012	7:27 PM	71.2	71.3	71.2	77	63.6	3	WSW	0.05	5	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.4	59	56.3	71	10.89	0.0739	23	1	100	1
9/26/2012	7:28 PM	71.2	71.3	71.2	77	63.6	1	WSW	0.02	3	WSW	71.2	72.2	72.2	30.046	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:29 PM	71.3	71.3	71.2	76	63.3	2	WSW	0.03	4	WSW	71.3	72.3	72.3	30.048	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:30 PM	71.3	71.3	71.3	77	63.7	3	N	0.05	6	NNW	71.3	72.3	72.3	30.049	0	0	0	0.004	71.2	59	56.1	70.7	10.9	0.0739	23	1	100	1
9/26/2012	7:31 PM	71.3	71.3	71.3	76	63.3	2	WNW	0.03	5	NW	71.3	72.3	72.3	30.049	0	0	0	0.004	71.1	59	56	70.5	10.91	0.074	23	1	100	1
9/26/2012	7:32 PM	71.3	71.3	71.3	76	63.3	0	WNW	0	2	WNW	71.3	72.3	72.3	30.051	0	0	0	0.004	71.1	59	56	70.5	10.91	0.074	24	1	100	1
9/26/2012	7:33 PM	71.4	71.4	71.3	76	63.4	2	WSW	0.03	5	WSW	71.4	72.4	72.4	30.053	0	0	0	0.004	71.1	60	56.5	70.6	11.03	0.074	23	1	100	1
9/26/2012	7:34 PM	71.4	71.4	71.4	76	63.4	2	SW	0.03	4	SW	71.4	72.4	72.4	30.053	0	0	0	0.004	70.9	60	56.3	70.4	11.03	0.074	24	1	100	1
9/26/2012	7:35 PM	71.4	71.4	71.4	75	63.1	2	SW	0.03	4	SW	71.4	72.3	72.3	30.052	0	0	0	0.004	70.9	60	56.3	70.4	11.03	0.074	23	1	100	1
9/26/2012	7:36 PM	71.5	71.5	71.4	75	63.2	3	SW	0.05	10	WNW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.9	60	56.3	70.4	11.03	0.074	24	1	100	1
9/26/2012	7:37 PM	71.5	71.5	71.5	75	63.2	2	SW	0.03	5	SW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.9	60	56.3	70.4	11.03	0.074	23	1	100	1
9/26/2012	7:38 PM	71.5	71.5	71.5	75	63.2	1	SW	0.02	3	SW	71.5	72.4	72.4	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:39 PM	71.6	71.6	71.5	75	63.3	3	WNW	0.05	6	W	71.6	72.5	72.5	30.049	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	24	1	100	1
9/26/2012	7:40 PM	71.6	71.6	71.6	75	63.3	1	WNW	0.02	3	WNW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:41 PM	71.6	71.6	71.6	75	63.3	5	SW	0.08	8	SW	71.6	72.5	72.5	30.049	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	24	1	100	1
9/26/2012	7:42 PM	71.6	71.6	71.6	75	63.3	4	WSW	0.07	5	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.7	60	56.1	70.1	11.04	0.074	23	1	100	1
9/26/2012	7:43 PM	71.6	71.6	71.6	75	63.3	2	WSW	0.03	4	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:44 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	2	WSW	71.6	72.5	72.5	30.05	0	0	0	0.005	70.6	60	56	70	11.04	0.074	24	1	100	1
9/26/2012	7:45 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.051	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:46 PM	71.6	71.6	71.6	76	63.6	1	WSW	0.02	3	WSW	71.6	72.6	72.6	30.053	0	0	0	0.005	70.6	60	56	70	11.04	0.074	24	1	100	1
9/26/2012	7:47 PM	71.5	71.6	71.5	76	63.5	1	WSW	0.02	4	WSW	71.5	72.5	72.5	30.055	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:48 PM	71.5	71.6	71.5	76	63.5	2	WSW	0.03	4	WSW	71.5	72.5	72.5	30.055	0	0	0	0.005	70.6	60	56	70	11.04	0.074	23	1	100	1
9/26/2012	7:49 PM	71.5	71.5	71.5	75	63.2	3	SW	0.05	6	WNW	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:50 PM	71.5	71.5	71.5	75	63.2	2	W	0.03	4	W	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:51 PM	71.5	71.5	71.5	75	63.2	3	WSW	0.05	4	W	71.5	72.4	72.4	30.055	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:52 PM	71.5	71.5	71.5	75	63.2	4	WSW	0.07	6	WSW	71.5	72.4	72.4	30.054	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:53 PM	71.5	71.5	71.5	76	63.5	3	W	0.05	7	SSW	71.5	72.5	72.5	30.056	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	24	1	100	1
9/26/2012	7:54 PM	71.5	71.6	71.5	76	63.5	2	SSW	0.03	5	SW	71.5	72.5	72.5	30.056	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:55 PM	71.5	71.5	71.5	76	63.5	1	SW	0.02	4	SW	71.5	72.5	72.5	30.057	0	0	0	0.005	70.4	60	55.8	69.7	11.04	0.0741	23	1	100	1
9/26/2012	7:56 PM	71.5	71.5	71.5	76	63.5	2	SW	0.03	4	SW	71.5	72.5	72.5	30.057	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	7:57 PM	71.5	71.5	71.5	76	63.5	0	SW	0	2	SW	71.5	72.5	72.5	30.059	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	7:58 PM	71.5	71.5	71.5	76	63.5	3	SW	0.05	7	WSW	71.5	72.5	72.5	30.058	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	7:59 PM	71.5	71.5	71.5	76	63.5	1	W	0.02	3	W	71.5	72.5	72.5	30.06	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:00 PM	71.5	71.5	71.5	76	63.5	0	W	0	1	W	71.5	72.5	72.5	30.059	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:01 PM	71.5	71.5	71.5	76	63.5	1	W	0.02	3	W	71.5	72.5	72.5	30.057	0	0	0	0.005	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	8:02 PM	71.4	71.5	71.4	76	63.4	2	W	0.03	3	W	71.4	72.4	72.4	30.058	0	0	0	0.004	70.2	60	55.7	69.5	11.05	0.0741	23	1	100	1
9/26/2012	8:03 PM	71.4	71.4	71.4	76	63.4	1	W	0.02	2	W	71.4	72.4	72.4	30.056	0	0	0	0.004	70.2	60	55.7	69.5	11.05	0.0741	24	1	100	1
9/26/2012	8:04 PM	71.4	71.4	71.4	77	63.8	1	W	0.02	2	W	71.4	72.5	72.5	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:05 PM	71.3	71.4	71.3	77	63.7	2	W	0.03	4	W	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	24	1	100	1
9/26/2012	8:06 PM	71.3	71.3	71.3	76	63.3	3	N	0.05	5	NW	71.3	72.3	72.3	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:07 PM	71.3	71.3	71.3	76	63.3	3	NNW	0.05	5	NNW	71.3	72.3	72.3	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:08 PM	71.3	71.3	71.3	77	63.7	1	NNW	0.02	3	NNW	71.3	72.3	72.3	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:09 PM	71.3	71.3	71.3	76	63.3	3	NNW	0.05	4	NNW	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:10 PM	71.3	71.3	71.3	76	63.3	3	NW	0.05	4	NW	71.3	72.3	72.3	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:11 PM	71.4	71.4	71.3	76	63.4	4	WNW	0.07	6	WNW	71.4	72.4	72.4	30.057	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:12 PM	71.4	71.4	71.3	76	63.4	1	WNW	0.02	3	WNW	71.4	72.4	72.4	30.06	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:13 PM	71.4	71.4	71.4	76	63.4	0	WNW	0	3	WNW	71.4	72.4	72.4	30.058	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	22	1	95.7	1
9/26/2012	8:14 PM	71.4	71.4	71.4	76	63.4	1	WNW	0.02	2	NW	71.4	72.4	72.4	30.059	0	0	0	0.004	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:15 PM	71.5	71.5	71.4	76	63.5	0	NW	0	2	NW	71.5	72.5	72.5	30.059	0	0	0	0.005	70.1	60	55.6	69.3	11.05	0.0741	23	1	100	1
9/26/2012	8:16 PM	71.5	71.5	71.4	76	63.5	1	NW	0.02	1	NW	71.5	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:17 PM	71.5	71.5	71.5	76	63.5	1	NW	0.02	2	NW	71.5	72.5	72.5	30.057	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:18 PM	71.5	71.5	71.5	76	63.5	0	NW	0	3	NW	71.5	72.5	72.5	30.056	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:19 PM	71.5	71.5	71.5	75	63.2	3	SW	0.05	4	NW	71.5	72.4	72.4	30.056	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	22	1	95.7	1
9/26/2012	8:20 PM	71.5	71.5	71.5	75	63.2	1	SW	0.02	3	SW	71.5	72.4	72.4	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:21 PM	71.5	71.5	71.5	75	63.2	2	SW	0.03	5	WSW	71.5	72.4	72.4	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:22 PM	71.6	71.6	71.5	75	63.3	2	W	0.03	4	W	71.6	72.5	72.5	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:23 PM	71.6	71.6	71.6	75	63.3	0	WSW	0	1	WSW	71.6	72.5	72.5	30.06	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:24 PM	71.6	71.6	71.6	75	63.3	0	WSW	0	1	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:25 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:26 PM	71.6	71.6	71.6	75	63.3	1	WSW	0.02	3	WSW	71.6	72.5	72.5	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:27 PM	71.7	71.7	71.6	75	63.4	4	WSW	0.07	6	WSW	71.7	72.6	72.6	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:28 PM	71.7	71.7	71.7	75	63.4	3	WSW	0.05	4	WSW	71.7	72.6	72.6	30.061	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:29 PM	71.8	71.8	71.7	75	63.4	2	WSW	0.03	5	WSW	71.8	72.8	72.8	30.06	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	24	1	100	1
9/26/2012	8:30 PM	71.8	71.8	71.8	74	63.1	2	WSW	0.03	3	WSW	71.8	72.7	72.7	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:31 PM	71.8	71.8	71.8	74	63.1	2	WSW	0.03	5	WSW	71.8	72.7	72.7	30.059	0	0	0	0.005	69.9	60	55.4	69.1	11.05	0.0742	23	1	100	1
9/26/2012	8:32 PM	71.8	71.9	71.8	75	63.4	3	SW	0.05	6	SW	71.8	72.8	72.8	30.059	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:33 PM	71.8	71.9	71.8	75	63.4	2	SW	0.03	4	SW	71.8	72.8	72.8	30.059	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:34 PM	71.9	71.9	71.8	74	63.2	3	SW	0.05	5	SW	71.9	72.8	72.8	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:35 PM	71.8	71.9	71.8	74	63.1	4	WSW	0.07	6	SW	71.8	72.7	72.7	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:36 PM	71.9	71.9	71.8	74	63.2	3	WSW	0.05	4	WSW	71.9	72.8	72.8	30.058	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:37 PM	71.8	71.8	71.8	75	63.4	4	WSW	0.07	7	WSW	71.8	72.8	72.8	30.057	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:38 PM	71.8	71.9	71.8	75	63.4	2	WSW	0.03	4	WSW	71.8	72.8	72.8	30.055	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:39 PM	71.8	71.8	71.8	75	63.4	3	W	0.05	6	W	71.8	72.8	72.8	30.055	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	24	1	100	1
9/26/2012	8:40 PM	71.8	71.8	71.8	75	63.4	1	W	0.02	3	W	71.8	72.8	72.8	30.056	0	0	0	0.005	69.7	60	55.2	69	11.05	0.0742	23	1	100	1
9/26/2012	8:41 PM	71.7	71.8	71.7	75	63.4	3	W	0.05	4	W	71.7	72.6	72.6	30.055	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:42 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	4	W	71.7	72.6	72.6	30.054	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:43 PM	71.7	71.7	71.7	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:44 PM	71.7	71.7	71.7	75	63.4	2	W	0.03	3	W	71.7	72.6	72.6	30.057	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:45 PM	71.7	71.7	71.6	75	63.4	1	W	0.02	2	W	71.7	72.6	72.6	30.056	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:46 PM	71.6	71.6	71.6	75	63.3	1	W	0.02	3	W	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	24	1	100	1
9/26/2012	8:47 PM	71.6	71.6	71.6	75	63.3	2	W	0.03	6	WSW	71.6	72.5	72.5	30.058	0	0	0	0.005	69.6	60	55.1	68.9	11.05	0.0742	23	1	100	1
9/26/2012	8:48 PM	71.6	71.6	71.6

Meteorological Data
Equity IRM

9/26/2012	10:08 PM	71.1	71.1	71.1	77	63.5	1	NNW	0.02	2	NNW	71.1	72.1	72.1	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:09 PM	71	71.1	71	77	63.4	0	NNW	0	1	NNW	71	72	72	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:10 PM	71.1	71.1	71.1	77	63.5	2	NNW	0.03	3	NNW	71.1	72.1	72.1	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:11 PM	71	71.1	71	76	63.1	2	NNE	0.03	5	NNW	71	71.9	71.9	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:12 PM	71	71	71	77	63.4	0	NNE	0	2	NNE	71	72	72	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	22	1	95.7	1
9/26/2012	10:13 PM	70.9	71	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.069	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:14 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	23	1	100	1
9/26/2012	10:15 PM	70.9	70.9	70.9	77	63.3	1	NNE	0.02	2	NNE	70.9	71.9	71.9	30.07	0	0	0	0.004	68.7	60	54.3	68.2	11.05	0.0744	24	1	100	1
9/26/2012	10:16 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	4	NNE	70.8	71.8	71.8	30.07	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:17 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	3	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:18 PM	70.7	70.8	70.7	77	63.1	3	NNE	0.05	4	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	24	1	100	1
9/26/2012	10:19 PM	70.7	70.7	70.7	76	62.8	2	NNE	0.03	5	NNE	70.7	71.5	71.5	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:20 PM	70.7	70.7	70.7	76	62.8	1	NNE	0.02	2	NNE	70.7	71.5	71.5	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	24	1	100	1
9/26/2012	10:21 PM	70.7	70.7	70.7	77	63.1	2	NNE	0.03	3	NNE	70.7	71.6	71.6	30.068	0	0	0	0.004	68.5	60	54.1	68.1	11.05	0.0745	23	1	100	1
9/26/2012	10:22 PM	70.7	70.7	70.7	77	63.1	2	NNE	0.03	3	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:23 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	2	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	24	1	100	1
9/26/2012	10:24 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	3	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:25 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.066	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	24	1	100	1
9/26/2012	10:26 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.065	0	0	0	0.004	68.4	60	54	68	11.05	0.0745	23	1	100	1
9/26/2012	10:27 PM	70.6	70.7	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.068	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	23	1	100	1
9/26/2012	10:28 PM	70.6	70.6	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.07	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	24	1	100	1
9/26/2012	10:29 PM	70.6	70.6	70.6	78	63.4	0	NNE	0	1	NNE	70.6	71.6	71.6	30.071	0	0	0	0.004	68.2	60	53.8	67.8	11.05	0.0745	22	1	95.7	1
9/26/2012	10:30 PM	70.6	70.6	70.6	78	63.4	0	---	0	0	---	70.6	71.6	71.6	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	24	1	100	1
9/26/2012	10:31 PM	70.6	70.6	70.5	78	63.4	0	---	0	0	---	70.6	71.6	71.6	30.073	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0746	23	1	100	1
9/26/2012	10:32 PM	70.5	70.5	70.5	78	63.3	0	---	0	0	---	70.5	71.5	71.5	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	24	1	100	1
9/26/2012	10:33 PM	70.5	70.5	70.5	78	63.3	0	---	0	0	---	70.5	71.5	71.5	30.072	0	0	0	0.004	68	60	53.6	67.7	11.05	0.0745	23	1	100	1
9/26/2012	10:34 PM	70.4	70.5	70.4	78	63.2	0	NNE	0	1	NNE	70.4	71.4	71.4	30.074	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	23	1	100	1
9/26/2012	10:35 PM	70.4	70.4	70.4	78	63.2	2	NNE	0.03	3	NNE	70.4	71.4	71.4	30.073	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	24	1	100	1
9/26/2012	10:36 PM	70.5	70.5	70.4	77	62.9	2	NNE	0.03	3	NNE	70.5	71.4	71.4	30.072	0	0	0	0.004	67.9	60	53.5	67.6	11.05	0.0746	23	1	100	1
9/26/2012	10:37 PM	70.5	70.5	70.4	77	62.9	2	NNE	0.03	3	NNE	70.5	71.4	71.4	30.072	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	24	1	100	1
9/26/2012	10:38 PM	70.5	70.6	70.5	77	62.9	0	NNE	0	1	NNE	70.5	71.4	71.4	30.07	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	23	1	100	1
9/26/2012	10:39 PM	70.6	70.6	70.6	77	63	1	NNE	0.02	3	NNE	70.6	71.5	71.5	30.071	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	23	1	100	1
9/26/2012	10:40 PM	70.6	70.6	70.6	77	63	1	NNE	0.02	2	NNE	70.6	71.5	71.5	30.069	0	0	0	0.004	67.7	60	53.3	67.3	11.05	0.0746	24	1	100	1
9/26/2012	10:41 PM	70.6	70.7	70.6	77	63	2	NNE	0.03	2	NNE	70.6	71.5	71.5	30.07	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:42 PM	70.7	70.7	70.7	77	63.1	1	NNE	0.02	2	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:43 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	2	NNE	70.7	71.6	71.6	30.069	0	0	0	0.004	67.5	60	53.1	67.1	11.05	0.0746	23	1	100	1
9/26/2012	10:44 PM	70.7	70.7	70.7	77	63.1	0	NNE	0	1	NNE	70.7	71.6	71.6	30.067	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:45 PM	70.7	70.7	70.7	76	62.8	1	NNE	0.02	2	NNE	70.7	71.5	71.5	30.067	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:46 PM	70.7	70.8	70.7	76	62.8	1	NNE	0.02	3	NNE	70.7	71.5	71.5	30.065	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	22	1	95.7	1
9/26/2012	10:47 PM	70.8	70.8	70.7	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.4	60	53	67	11.05	0.0746	23	1	100	1
9/26/2012	10:48 PM	70.8	70.8	70.8	76	62.9	1	NNE	0.02	3	NNE	70.8	71.7	71.7	30.069	0	0	0	0.004	67.2	60	52.8	66.7	11.05	0.0747	23	1	100	1
9/26/2012	10:49 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	23	1	100	1
9/26/2012	10:50 PM	70.8	70.8	70.8	77	63.2	1	NNE	0.02	2	NNE	70.8	71.8	71.8	30.068	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	23	1	100	1
9/26/2012	10:51 PM	70.8	70.8	70.8	76	62.9	1	NNE	0.02	2	NNE	70.8	71.7	71.7	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	22	1	95.7	1
9/26/2012	10:52 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	3	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67.2	61	53.3	66.8	11.25	0.0747	24	1	100	1
9/26/2012	10:53 PM	70.8	70.8	70.8	77	63.2	2	NNE	0.03	2	NNE	70.8	71.8	71.8	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	22	1	95.7	1
9/26/2012	10:54 PM	70.7	70.8	70.7	76	62.8	2	N	0.03	3	NNE	70.7	71.5	71.5	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	10:55 PM	70.8	70.8	70.7	77	63.2	2	N	0.03	4	N	70.8	71.8	71.8	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	22	1	95.7	1
9/26/2012	10:56 PM	70.8	70.8	70.7	76	62.9	1	N	0.02	2	N	70.8	71.7	71.7	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:57 PM	70.7	70.8	70.7	77	63.1	1	N	0.02	3	N	70.7	71.6	71.6	30.069	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:58 PM	70.8	70.8	70.7	77	63.2	1	N	0.02	2	N	70.8	71.8	71.8	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	10:59 PM	70.7	70.8	70.7	77	63.1	2	N	0.03	4	N	70.7	71.6	71.6	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:00 PM	70.7	70.7	70.7	77	63.1	1	N	0.02	2	N	70.7	71.6	71.6	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:01 PM	70.7	70.7	70.7	77	63.1	2	N	0.03	4	N	70.7	71.6	71.6	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:02 PM	70.7	70.7	70.7	77	63.1	1	N	0.02	4	N	70.7	71.6	71.6	30.073	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:03 PM	70.6	70.7	70.6	77	63	2	N	0.03	4	N	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:04 PM	70.6	70.6	70.6	77	63	2	N	0.03	4	SW	70.6	71.5	71.5	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:05 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	5	SW	70.6	71.5	71.5	30.072	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:06 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	4	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:07 PM	70.5	70.6	70.5	77	62.9	2	NW	0.03	3	NW	70.5	71.4	71.4	30.07	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	23	1	100	1
9/26/2012	11:08 PM	70.5	70.5	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:09 PM	70.5	70.5	70.5	78	63.3	1	NW	0.02	3	NW	70.5	71.5	71.5	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:10 PM	70.5	70.5	70.5	77	62.9	4	WNW	0.07	10	W	70.5	71.4	71.4	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:11 PM	70.5	70.5	70.5	78	63.3	1	WNW	0.02	3	WNW	70.5	71.5	71.5	30.071	0	0	0	0.004	67	61	53.1	66.6	11.25	0.0747	24	1	100	1
9/26/2012	11:12 PM	70.5	70.5	70.4	77	62.9	2	W	0.03	3	W	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:13 PM	70.5	70.5	70.5	78	63.3	1	W	0.02	2	W	70.5	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:14 PM	70.5	70.5	70.5	78	63.3	3	W	0.05	7	WSW	70.5	71.5	71.5	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:15 PM	70.5	70.5	70.5	78	63.3	3	WNW	0.05	7	W	70.5	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:16 PM	70.5	70.5	70.4	77	62.9	4	WSW	0.07	6	WSW	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:17 PM	70.5	70.5	70.5	77	62.9	1	WSW	0.02	3	WSW	70.5	71.4	71.4	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:18 PM	70.5	70.5	70.5	77	62.9	1	WSW	0.02	2	WSW	70.5	71.4	71.4	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:19 PM	70.5	70.5	70.5	78	63.3	4	WSW	0.07	7	S	70.5	71.5	71.5	30.071	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:20 PM	70.5	70.5	70.5	77	62.9	4	W	0.07	7	SW	70.5	71.4	71.4	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:21 PM	70.6	70.6	70.5	77	63	2	WSW	0.03	5	W	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:22 PM	70.6	70.6	70.6	77	63	2	W	0.03	7	WNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:23 PM	70.7	70.7	70.6	77	63.1	5	WSW	0.08	9	W	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:24 PM	70.7	70.7	70.7	77	63.1	4	NW	0.07	6	WNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:25 PM	70.7	70.8	70.7	77	63.1	3	NW	0.05	5	WSW	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:26 PM	70.8	70.8	70.7	77	63.2	3	SW	0.05	5	W	70.8	71.8	71.8	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:27 PM	70.8	70.8	70.7	77	63.2	1	WSW	0.02	3	SW	70.8	71.8	71.8	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:28 PM	70.8	70.8	70.7	77	63.2	1	WSW	0.02	4	WNW	70.8	71.8	71.8	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:29 PM	70.7	70.7	70.7	77	63.1	2	WNW	0.03	3	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:30 PM	70.7	70.7	70.7	77	63.1	3	WNW	0.05	5	WNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:31 PM	70.7	70.7	70.7	77	63.1	5	WNW	0.08	8	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	23	1	100	1
9/26/2012	11:32 PM	70.7	70.7	70.7	77	63.1	2	NW	0.03	4	WNW	70.7	71.6	71.6	30.075	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:33 PM	70.7	70.7	70.7	77	63.1	3	N	0.05	6	N	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:34 PM	70.7	70.7	70.7	77	63.1	3	NNW	0.05	5	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:35 PM	70.7	70.8	70.7	77	63.1	1	NNW	0.02	3	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:36 PM	70.7	70.7	70.7	77	63.1	0	NNW	0	1	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:37 PM	70.7	70.7	70.7	77	63.1	1	NNW	0.02	2	NNW	70.7	71.6	71.6	30.074	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:38 PM	70.7	70.7	70.7	77	63.1	0	NNW	0	2	NNW	70.7	71.6	71.6	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	21	1	91.3	1
9/26/2012	11:39 PM	70.7	70.7	70.6	77	63.1	1	NNW	0.02	3	NNW	70.7	71.6	71.6	30.072	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:40 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	4	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:41 PM	70.6	70.6	70.6	77	63	2	NNW	0.03	3	NNW	70.6	71.5	71.5	30.073	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:42 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	24	1	100	1
9/26/2012	11:43 PM	70.6	70.6	70.6	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	67	60	52.7	66.5	11.05	0.0747	22	1	95.7	1
9/26/2012	11:44 PM	70.6	70.6	70.5	77	63	0	NNW	0	1	NNW	70.6	71.5	71.5	30.07	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:45 PM	70.5	70.6	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.068	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:46 PM	70.5	70.5	70.5	77	62.9	0	---	0	0	---	70.5	71.4	71.4	30.066	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	23	1	100	1
9/26/2012	11:47 PM	70.5	70.5	70.5	78	63.3	2	NNW	0.03	4	NNW	70.5	71.5	71.5	30.067	0	0	0	0.004	66.9	60	52.6	66.4	11.05	0.0747	24	1	100	1
9/26/2012	11:48

Meteorological Data
Equity IRM

9/27/2012	1:08 AM	70.3	70.3	70.3	78	63.1	3	WSW	0.05	5	WSW	70.3	71.3	71.3	30.055	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	24	1	100	1
9/27/2012	1:09 AM	70.3	70.3	70.3	79	63.5	2	WSW	0.03	4	WSW	70.3	71.4	71.4	30.056	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:10 AM	70.3	70.3	70.2	78	63.1	1	WSW	0.02	3	WSW	70.3	71.3	71.3	30.055	0	0	0	0.004	66.7	60	52.4	66.1	11.05	0.0747	23	1	100	1
9/27/2012	1:11 AM	70.2	70.3	70.2	79	63.4	1	WSW	0.02	2	WSW	70.2	71.2	71.2	30.056	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:12 AM	70.2	70.2	70.2	79	63.4	2	WSW	0.03	4	WSW	70.2	71.2	71.2	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	23	1	100	1
9/27/2012	1:13 AM	70.1	70.2	70.1	79	63.3	1	WSW	0.02	2	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:14 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	3	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	22	1	95.7	1
9/27/2012	1:15 AM	70.1	70.1	70.1	79	63.3	0	WSW	0	1	WSW	70.1	71.1	71.1	30.057	0	0	0	0.004	66.6	60	52.3	66	11.05	0.0748	24	1	100	1
9/27/2012	1:16 AM	70	70.1	70	79	63.2	2	WSW	0.03	4	WSW	70	71	71	30.056	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	1:17 AM	70	70	70	80	63.5	2	WSW	0.03	4	WSW	70	71.1	71.1	30.06	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:18 AM	70	70	70	80	63.5	3	WSW	0.05	4	WSW	70	71.1	71.1	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:19 AM	69.9	70	69.9	79	63.1	2	WSW	0.03	4	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:20 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	5	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:21 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	3	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	1:22 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	1:23 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	1:24 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	2	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:25 AM	69.9	69.9	69.9	79	63.1	1	WSW	0.02	2	WSW	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:26 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.06	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:27 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.058	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	1:28 AM	69.9	69.9	69.9	79	63.1	0	WSW	0	1	WSW	69.9	70.9	70.9	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1
9/27/2012	1:29 AM	69.9	69.9	69.9	80	63.4	1	WSW	0.02	3	WSW	69.9	71	71	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:30 AM	69.8	69.9	69.8	80	63.3	0	---	0	0	---	69.8	71	71	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	24	1	100	1
9/27/2012	1:31 AM	69.8	69.8	69.8	80	63.3	1	WSW	0.02	3	WSW	69.8	71	71	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:32 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	5	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:33 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	5	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:34 AM	69.8	69.8	69.8	80	63.3	1	WSW	0.02	2	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:35 AM	69.8	69.8	69.8	80	63.3	2	WSW	0.03	3	WSW	69.8	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:36 AM	69.8	69.8	69.8	80	63.3	2	WSW	0.03	4	WSW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:37 AM	69.8	69.8	69.8	80	63.3	3	WSW	0.05	6	WSW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:38 AM	69.8	69.8	69.8	80	63.3	3	NE	0.05	6	WNW	69.8	71	71	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:39 AM	69.8	69.8	69.8	80	63.3	2	SW	0.03	4	W	69.8	71	71	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:40 AM	69.8	69.8	69.8	79	63	1	SW	0.02	2	SW	69.8	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:41 AM	69.9	69.9	69.8	80	63.4	2	SW	0.03	6	WSW	69.9	71	71	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:42 AM	69.9	69.9	69.8	79	63.1	3	WSW	0.05	6	WSW	69.9	70.9	70.9	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:43 AM	69.9	69.9	69.9	79	63.1	2	WSW	0.03	4	WSW	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:44 AM	69.9	69.9	69.9	79	63.1	2	S	0.03	5	S	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:45 AM	69.9	69.9	69.9	79	63.1	4	WSW	0.07	8	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:46 AM	69.9	69.9	69.9	79	63.1	4	WSW	0.07	7	SW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:47 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	5	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:48 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	5	WSW	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:49 AM	69.9	69.9	69.9	79	63.1	3	WSW	0.05	4	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	1:50 AM	69.9	69.9	69.9	79	63.1	4	W	0.07	6	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:51 AM	69.9	70	69.9	79	63.1	2	W	0.03	5	W	69.9	70.9	70.9	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	1:52 AM	69.9	70	69.9	79	63.1	2	WSW	0.03	5	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:53 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.065	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:54 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:55 AM	70	70	70	79	63.2	1	WSW	0.02	2	WSW	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:56 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.065	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	1:57 AM	70	70.1	70	79	63.2	1	WSW	0.02	2	W	70	71	71	30.064	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:58 AM	70	70	70	79	63.2	2	WSW	0.03	2	WSW	70	71	71	30.066	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	1:59 AM	70	70	70	79	63.2	1	WSW	0.02	3	WSW	70	71	71	30.067	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:00 AM	70	70	70	79	63.2	3	SW	0.05	6	SW	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:01 AM	70	70	70	79	63.2	1	SW	0.02	3	SW	70	71	71	30.067	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:02 AM	70	70.1	70	79	63.2	3	WNW	0.05	6	NNE	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:03 AM	70	70	70	79	63.2	2	NNE	0.03	4	NW	70	71	71	30.066	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0749	23	1	100	1
9/27/2012	2:04 AM	70	70	70	79	63.2	0	NW	0	2	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:05 AM	70	70.1	70	79	63.2	1	NW	0.02	3	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:06 AM	70	70	70	79	63.2	0	NW	0	1	NW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	22	1	95.7	1
9/27/2012	2:07 AM	70	70	70	80	63.5	2	N	0.03	4	NNW	70	71.1	71.1	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:08 AM	70	70	70	80	63.5	1	N	0.02	3	N	70	71.1	71.1	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:09 AM	69.9	70	69.9	80	63.4	0	N	0	1	N	69.9	71	71	30.065	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:10 AM	69.9	69.9	69.9	80	63.4	0	N	0	1	N	69.9	71	71	30.064	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:11 AM	69.9	69.9	69.9	79	63.1	1	NNW	0.02	3	NNW	69.9	70.9	70.9	30.065	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:12 AM	69.9	69.9	69.9	79	63.1	0	NNW	0	1	NNW	69.9	70.9	70.9	30.064	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:13 AM	69.9	69.9	69.9	80	63.4	0	NNW	0	1	NNW	69.9	71	71	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:14 AM	69.9	69.9	69.9	80	63.4	1	NW	0.02	3	NW	69.9	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:15 AM	69.9	69.9	69.9	80	63.4	4	SW	0.07	7	WSW	69.9	71	71	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:16 AM	69.9	69.9	69.8	79	63.1	4	WSW	0.07	7	WSW	69.9	70.9	70.9	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:17 AM	69.9	69.9	69.9	79	63.1	3	W	0.05	7	W	69.9	70.9	70.9	30.063	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	21	1	91.3	1
9/27/2012	2:18 AM	70	70	70	79	63.2	3	SW	0.05	5	WSW	70	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:19 AM	70	70	70	79	63.2	4	SW	0.07	6	SW	70	71	71	30.062	0	0	0	0.003	66.4	60	52.1	65.8	11.05	0.0748	22	1	95.7	1
9/27/2012	2:20 AM	70.1	70.1	70	79	63.3	2	WSW	0.03	4	WSW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:21 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	5	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:22 AM	70.1	70.1	70.1	79	63.3	3	SW	0.05	5	SW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:23 AM	70.1	70.1	70.1	79	63.3	2	SW	0.03	3	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:24 AM	70.1	70.1	70.1	79	63.3	3	WSW	0.05	6	WSW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:25 AM	70.1	70.1	70.1	79	63.3	2	WSW	0.03	4	WSW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:26 AM	70.1	70.1	70.1	79	63.3	3	WSW	0.05	7	SW	70.1	71.1	71.1	30.064	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:27 AM	70.1	70.1	70.1	79	63.3	2	NW	0.03	4	NW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:28 AM	70.1	70.1	70.1	79	63.3	2	SW	0.03	3	WSW	70.1	71.1	71.1	30.061	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:29 AM	70.1	70.1	70.1	79	63.3	3	W	0.05	4	SW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	23	1	100	1
9/27/2012	2:30 AM	70.1	70.1	70.1	78	62.9	2	WNW	0.03	3	WNW	70.1	71	71	30.062	0	0	0	0.004	66.4	60	52.1	65.8	11.05	0.0748	24	1	100	1
9/27/2012	2:31 AM	70.1	70.1	70.1	79	63.3	2	WNW	0.03	4	WNW	70.1	71.1	71.1	30.061	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:32 AM	70.1	70.1	70.1	79	63.3	2	W	0.03	4	W	70.1	71.1	71.1	30.062	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:33 AM	70.1	70.1	70.1	78	62.9	1	W	0.02	3	W	70.1	71	71	30.063	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:34 AM	70.1	70.1	70.1	79	63.3	4	WNW	0.07	6	WNW	70.1	71.1	71.1	30.062	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:35 AM	70.1	70.1	70.1	79	63.3	1	WNW	0.02	3	WNW	70.1	71.1	71.1	30.063	0	0	0	0.004	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:36 AM	70	70.1	70	79	63.2	2	SW	0.03	6	SW	70	71	71	30.065	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:37 AM	70	70	70	79	63.2	2	SW	0.03	4	SW	70	71	71	30.064	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:38 AM	69.9	70	69.9	79	63.1	1	SW	0.02	2	SW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:39 AM	69.9	69.9	69.9	79	63.1	2	SW	0.03	4	WSW	69.9	70.9	70.9	30.063	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	23	1	100	1
9/27/2012	2:40 AM	69.9	69.9	69.9	79	63.1	2	W	0.03	4	W	69.9	70.9	70.9	30.061	0	0	0	0.003	66.2	60	51.9	65.5	11.05	0.0748	24	1	100	1
9/27/2012	2:41 AM	69.8	69.9	69.8	79	63	1	W	0.02	4	NNW	69.8	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:42 AM	69.8	69.8	69.8	79	63	3	NNW	0.05	4	NNW	69.8	70.9	70.9	30.06	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:43 AM	69.8	69.8	69.8	80	63.3	0	NNE	0	1	NNE	69.8	71	71	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:44 AM	69.7	69.8	69.7	80	63.3	2	NNW	0.03	5	NW	69.7	70.9	70.9	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:45 AM	69.7	69.7	69.7	80	63.3	2	NNW	0.03	3	NNW	69.7	70.9	70.9	30.062	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:46 AM	69.7	69.7	69.7	79	62.9	2	NNW	0.03	5	SW	69.7	70.8	70.8	30.061	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	23	1	100	1
9/27/2012	2:47 AM	69.7	69.7	69.6	80	63.3	1	SW	0.02	3	WSW	69.7	70.9	70.9	30.059	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0749	24	1	100	1
9/27/2012	2:48 AM	69.6	69.7	69.6	79	62.8	2	WSW	0.03	3	WSW	69.6	70.8	70.8	30.058	0	0	0	0.003	66.1	60	51.8	65.4	11.05	0.0748	23	1	100	1

Meteorological Data
Equity IRM

9/27/2012	4:08 AM	69.2	69.3	69.2	79	62.4	2	NNW	0.03	4	NNW	69.2	70.5	70.5	30.055	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:09 AM	69.2	69.3	69.2	79	62.4	2	N	0.03	3	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:10 AM	69.2	69.2	69.2	79	62.4	3	NNW	0.05	4	NNW	69.2	70.5	70.5	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:11 AM	69.2	69.2	69.2	79	62.4	2	NNW	0.03	3	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:12 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:13 AM	69.2	69.2	69.2	79	62.4	1	NNW	0.02	2	NNW	69.2	70.5	70.5	30.058	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:14 AM	69.1	69.2	69.1	80	62.7	3	NNW	0.05	4	NNW	69.1	70.6	70.6	30.059	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:15 AM	69.1	69.2	69.1	80	62.7	3	NW	0.05	5	NW	69.1	70.6	70.6	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:16 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.06	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:17 AM	69.1	69.1	69.1	79	62.3	3	NNW	0.05	5	N	69.1	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:18 AM	69	69.1	69	80	62.6	2	N	0.03	4	NNW	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:19 AM	69	69.1	69	80	62.6	3	N	0.05	4	N	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:20 AM	69	69.1	69	80	62.6	2	N	0.03	3	N	69	70.5	70.5	30.061	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:21 AM	69.1	69.1	69	80	62.7	1	N	0.02	3	N	69.1	70.6	70.6	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:22 AM	69	69.1	69	80	62.6	3	N	0.05	5	N	69	70.5	70.5	30.062	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:23 AM	69	69	69	79	62.2	3	NW	0.05	4	NW	69	70.4	70.4	30.063	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:24 AM	69	69	69	79	62.2	3	WNW	0.05	6	W	69	70.4	70.4	30.064	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:25 AM	69.1	69.1	69	79	62.3	1	WNW	0.02	5	WNW	69.1	70.5	70.5	30.065	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:26 AM	69.1	69.1	69.1	80	62.7	1	WNW	0.02	3	WNW	69.1	70.6	70.6	30.066	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:27 AM	69.1	69.1	69.1	79	62.3	4	WNW	0.07	6	NW	69.1	70.5	70.5	30.067	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:28 AM	69.1	69.1	69.1	79	62.3	3	NW	0.05	7	NNW	69.1	70.5	70.5	30.068	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:29 AM	69.1	69.1	69.1	79	62.3	4	NNW	0.07	8	NNW	69.1	70.5	70.5	30.071	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:30 AM	69.1	69.1	69.1	79	62.3	3	N	0.05	6	N	69.1	70.5	70.5	30.072	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:31 AM	69.1	69.1	69.1	79	62.3	2	WSW	0.03	4	WSW	69.1	70.5	70.5	30.069	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:32 AM	69.1	69.1	69.1	80	62.7	2	NW	0.03	5	NNW	69.1	70.6	70.6	30.071	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:33 AM	69.1	69.1	69.1	79	62.3	2	NW	0.03	3	NW	69.1	70.5	70.5	30.073	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:34 AM	69.1	69.1	69.1	79	62.3	1	NW	0.02	3	NW	69.1	70.5	70.5	30.073	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:35 AM	69.1	69.1	69.1	79	62.3	1	NW	0.02	3	NW	69.1	70.5	70.5	30.074	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:36 AM	69.1	69.1	69	80	62.7	2	NW	0.03	3	NW	69.1	70.6	70.6	30.075	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:37 AM	69	69	69	80	62.6	3	NW	0.05	5	NW	69	70.5	70.5	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:38 AM	69	69	69	80	62.6	2	WSW	0.03	3	WSW	69	70.5	70.5	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:39 AM	69	69	68.9	80	62.6	2	WNW	0.03	4	WNW	69	70.5	70.5	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:40 AM	68.9	69	68.9	80	62.5	1	WNW	0.02	2	WNW	68.9	70.4	70.4	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:41 AM	68.9	68.9	68.9	80	62.5	3	N	0.05	5	N	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:42 AM	68.9	68.9	68.9	80	62.5	3	NNW	0.05	4	NNW	68.9	70.4	70.4	30.076	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:43 AM	68.9	68.9	68.9	80	62.5	1	NNW	0.02	3	NNW	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:44 AM	68.9	68.9	68.9	81	62.8	2	NNW	0.03	3	NNW	68.9	70.4	70.4	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:45 AM	68.8	68.8	68.8	81	62.7	3	NNW	0.05	4	W	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:46 AM	68.8	68.8	68.8	80	62.4	2	WSW	0.03	4	WSW	68.8	70.3	70.3	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:47 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	3	N	68.8	70.3	70.3	30.079	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:48 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	4	SW	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	21	1	91.3	1
9/27/2012	4:49 AM	68.8	68.8	68.7	80	62.4	2	W	0.03	4	W	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:50 AM	68.7	68.7	68.7	80	62.3	4	NNW	0.07	6	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:51 AM	68.7	68.8	68.7	80	62.3	2	NNW	0.03	4	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:52 AM	68.7	68.8	68.7	80	62.3	1	WNW	0.02	4	NW	68.7	70.1	70.1	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:53 AM	68.8	68.8	68.7	81	62.7	3	WNW	0.05	4	NW	68.8	70.3	70.3	30.078	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	4:54 AM	68.7	68.7	68.7	81	62.6	2	WNW	0.03	4	WNW	68.7	70.2	70.2	30.077	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:55 AM	68.7	68.7	68.7	81	62.6	4	WNW	0.07	6	NW	68.7	70.2	70.2	30.079	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:56 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.08	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:57 AM	68.6	68.6	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.081	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	4:58 AM	68.6	68.6	68.6	81	62.5	3	NW	0.05	4	NW	68.6	70.1	70.1	30.081	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	4:59 AM	68.6	68.6	68.6	81	62.5	1	NW	0.02	2	NW	68.6	70.1	70.1	30.082	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	24	1	100	1
9/27/2012	5:00 AM	68.6	68.6	68.6	80	62.2	2	ENE	0.03	4	ENE	68.6	70	70	30.082	0	0	0	0.002	65.9	60	51.6	65.2	11.05	0.0749	23	1	100	1
9/27/2012	5:01 AM	68.7	68.7	68.6	80	62.3	3	ENE	0.05	5	NNW	68.7	70.1	70.1	30.083	0	0	0	0.003	65.9	60	51.6	65.2	11.05	0.0749	22	1	95.7	1
9/27/2012	5:02 AM	68.7	68.7	68.7	80	62.3	2	NNW	0.03	5	NNW	68.7	70.1	70.1	30.085	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:03 AM	68.8	68.8	68.8	80	62.4	4	NNW	0.07	6	NNW	68.8	70.3	70.3	30.084	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:04 AM	68.8	68.8	68.8	80	62.4	4	NNW	0.07	6	NNW	68.8	70.3	70.3	30.085	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:05 AM	68.8	68.8	68.8	80	62.4	5	NW	0.08	9	NNW	68.8	70.3	70.3	30.084	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:06 AM	68.8	68.8	68.8	80	62.4	5	NNW	0.08	8	NW	68.8	70.3	70.3	30.087	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.0752	23	1	100	1
9/27/2012	5:07 AM	68.8	68.8	68.8	80	62.4	5	N	0.08	9	NNW	68.8	70.3	70.3	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:08 AM	68.8	68.9	68.8	80	62.4	3	WNW	0.05	5	WNW	68.8	70.3	70.3	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:09 AM	68.9	68.9	68.9	80	62.5	4	NNE	0.07	5	N	68.9	70.4	70.4	30.089	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:10 AM	68.9	68.9	68.9	80	62.5	4	N	0.07	6	NW	68.9	70.4	70.4	30.09	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:11 AM	68.9	68.9	68.8	80	62.5	4	NW	0.07	6	NW	68.9	70.4	70.4	30.092	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:12 AM	68.8	68.8	68.8	80	62.4	2	N	0.03	5	N	68.8	70.3	70.3	30.097	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:13 AM	68.8	68.8	68.8	80	62.4	3	N	0.05	5	N	68.8	70.3	70.3	30.096	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:14 AM	68.8	68.8	68.8	81	62.7	3	NW	0.05	4	N	68.8	70.3	70.3	30.097	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:15 AM	68.8	68.8	68.8	81	62.7	3	WNW	0.05	7	NNW	68.8	70.3	70.3	30.1	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:16 AM	68.7	68.8	68.7	80	62.3	3	NW	0.05	7	N	68.7	70.1	70.1	30.102	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:17 AM	68.7	68.8	68.7	81	62.6	2	NW	0.03	3	NW	68.7	70.2	70.2	30.103	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:18 AM	68.7	68.7	68.7	81	62.6	3	NW	0.05	5	NW	68.7	70.2	70.2	30.104	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:19 AM	68.7	68.7	68.7	81	62.6	2	NW	0.03	4	NW	68.7	70.2	70.2	30.103	0	0	0	0.003	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:20 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	6	NW	68.6	70.1	70.1	30.103	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:21 AM	68.6	68.7	68.6	81	62.5	3	NW	0.05	5	NW	68.6	70.1	70.1	30.103	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:22 AM	68.6	68.6	68.6	81	62.5	1	NW	0.02	2	NW	68.6	70.1	70.1	30.105	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:23 AM	68.5	68.6	68.5	82	62.8	2	NW	0.03	4	NW	68.5	70	70	30.105	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	23	1	100	1
9/27/2012	5:24 AM	68.5	68.5	68.5	82	62.8	1	NW	0.02	3	NW	68.5	70	70	30.104	0	0	0	0.002	65.8	60	51.5	65.1	11.05	0.075	24	1	100	1
9/27/2012	5:25 AM	68.4	68.5	68.4	82	62.7	2	NNE	0.03	6	NNE	68.4	69.9	69.9	30.105	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	22	1	95.7	1
9/27/2012	5:26 AM	68.3	68.4	68.3	82	62.6	3	NNW	0.05	5	NW	68.3	69.8	69.8	30.105	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:27 AM	68.3	68.3	68.3	83	62.9	5	NW	0.08	8	N	68.3	69.8	69.8	30.108	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:28 AM	68.2	68.3	68.2	82	62.5	3	NNW	0.05	5	NNW	68.2	69.6	69.6	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:29 AM	68.2	68.2	68.1	83	62.8	3	W	0.05	6	W	68.2	69.7	69.7	30.103	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:30 AM	68.1	68.1	68.1	83	62.7	1	W	0.02	3	W	68.1	69.5	69.5	30.103	0.01	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:31 AM	68.1	68.1	68.1	83	62.7	1	W	0.02	3	W	68.1	69.5	69.5	30.104	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	24	1	100	1
9/27/2012	5:32 AM	68	68.1	68	84	63	2	W	0.03	3	W	68	69.5	69.5	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	22	1	95.7	1
9/27/2012	5:33 AM	68	68	68	84	63	1	W	0.02	2	W	68	69.5	69.5	30.106	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:34 AM	67.9	68	67.9	83	62.5	0	W	0	1	W	67.9	69.3	69.3	30.1	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.075	22	1	95.7	1
9/27/2012	5:35 AM	67.9	67.9	67.9	84	62.9	1	W	0.02	2	W	67.9	69.3	69.3	30.1	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.075	23	1	100	1
9/27/2012	5:36 AM	67.9	67.9	67.9	84	62.9	3	WNW	0.05	5	WNW	67.9	69.3	69.3	30.107	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:37 AM	67.8	67.8	67.8	85	63.1	1	NW	0.02	4	NNW	67.8	69.3	69.3	30.111	0	0	0	0.002	65.6	60	51.3	64.9	11.05	0.0751	23	1	100	1
9/27/2012	5:38 AM	67.7	67.8	67.7	85	63	0	NW	0	2	NW	67.7	69.1	69.1	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:39 AM	67.7	67.7	67.7	85	63	2	NW	0.03	4	NW	67.7	69.1	69.1	30.11	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:40 AM	67.6	67.7	67.6	84	62.6	2	NW	0.03	4	NW	67.6	69	69	30.113	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:41 AM	67.6	67.6	67.6	85	62.9	1	NW	0.02	3	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	22	1	95.7	1
9/27/2012	5:42 AM	67.6	67.6	67.6	85	62.9	0	NW	0	1	NW	67.6	69	69	30.12	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:43 AM	67.6	67.6	67.6	86	63.3	1	NW	0.02	3	NW	67.6	69.1	69.1	30.119	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:44 AM	67.5	67.5	67.5	85	62.8	1	NW	0.02	3	NW	67.5	68.9	68.9	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:45 AM	67.4	67.5	67.4	85	62.7	1	NW	0.02	2	NW	67.4	68.8	68.8	30.114	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:46 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1	100	1
9/27/2012	5:47 AM	67.4	67.4	67.4	86	63.1	1	NW	0.02	2	NW	67.4	68.8	68.8	30.112	0	0	0	0.002	65.4	60	51.1	64.6	11.05	0.0751	23	1

Meteorological Data
Equity IRM

9/27/2012	7:08 AM	66.8	66.8	66.8	88	63.1	0	NNW	0	1	NNW	66.8	68.2	68.2	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:09 AM	66.8	66.8	66.8	87	62.8	0	NNW	0	2	NNW	66.8	68.1	68.1	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:10 AM	66.8	66.8	66.8	87	62.8	1	NNW	0.02	2	NNW	66.8	68.1	68.1	30.129	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:11 AM	66.8	66.8	66.8	87	62.8	0	NNW	0	1	NNW	66.8	68.1	68.1	30.132	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	23	1	100	1
9/27/2012	7:12 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.13	0	0	0	0.001	64.5	60	50.3	63.6	11.06	0.0753	24	1	100	1
9/27/2012	7:13 AM	66.9	66.9	66.8	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	61	50.7	63.7	11.25	0.0753	23	1	100	1
9/27/2012	7:14 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	62	51.2	63.8	11.45	0.0753	24	1	100	1
9/27/2012	7:15 AM	66.9	66.9	66.9	87	62.9	0	---	0	0	---	66.9	68.3	68.3	30.129	0	0	0	0.001	64.5	64	52	64	11.76	0.0752	23	1	100	1
9/27/2012	7:16 AM	66.9	67	66.9	86	62.6	0	---	0	0	---	66.9	68.2	68.2	30.132	0	0	0	0.001	64.5	64	52	64	11.76	0.0753	23	1	100	1
9/27/2012	7:17 AM	67	67	66.9	87	63	0	---	0	0	---	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:18 AM	67	67	67	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.13	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0752	22	1	95.7	1
9/27/2012	7:19 AM	67	67	67	88	63.3	0	NNW	0	1	NNW	67	68.4	68.4	30.131	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0753	24	1	100	1
9/27/2012	7:20 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.129	0	0	0	0.001	64.6	63	51.7	64	11.65	0.0752	22	1	95.7	1
9/27/2012	7:21 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.13	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:22 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.132	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:23 AM	67	67	67	88	63.3	0	---	0	0	---	67	68.4	68.4	30.135	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:24 AM	67	67	67	88	63.3	0	NNW	0	1	NNW	67	68.4	68.4	30.136	0	0	0	0.001	64.8	64	52.3	64.4	11.75	0.0752	23	1	100	1
9/27/2012	7:25 AM	67	67	66.9	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.135	0	0	0	0.001	64.9	64	52.4	64.5	11.75	0.0752	22	1	95.7	1
9/27/2012	7:26 AM	67	67	66.9	87	63	0	NNW	0	2	NNW	67	68.4	68.4	30.137	0	0	0	0.001	64.9	64	52.4	64.5	11.75	0.0752	24	1	100	1
9/27/2012	7:27 AM	67	67	67	87	63	0	---	0	0	---	67	68.4	68.4	30.137	0	0	0	0.001	64.9	65	52.8	64.6	11.95	0.0752	22	1	95.7	1
9/27/2012	7:28 AM	67	67	67	87	63	0	NNW	0	1	NNW	67	68.4	68.4	30.139	0	0	0	0.001	64.9	65	52.8	64.6	11.95	0.0752	23	1	100	1
9/27/2012	7:29 AM	67	67	67	87	63	0	NNW	0	2	NNW	67	68.4	68.4	30.139	0	0	0	0.001	65.1	66	53.5	64.9	12.15	0.0751	23	1	100	1
9/27/2012	7:30 AM	67.1	67.1	67	87	63.1	0	---	0	0	---	67.1	68.5	68.5	30.141	0	0	0	0.001	65.1	66	53.5	64.9	12.15	0.0751	23	1	100	1
9/27/2012	7:31 AM	67.2	67.2	67.1	87	63.2	1	NNW	0.02	2	NNW	67.2	68.6	68.6	30.144	0	0	0	0.002	65.1	67	53.9	64.9	12.45	0.0751	23	1	100	1
9/27/2012	7:32 AM	67.3	67.3	67.2	86	63	1	NNW	0.02	3	NNW	67.3	68.7	68.7	30.147	0	0	0	0.002	65.1	68	54.3	65	12.75	0.0751	23	1	100	1
9/27/2012	7:33 AM	67.4	67.4	67.4	86	63.1	0	NNW	0	1	NNW	67.4	68.8	68.8	30.148	0	0	0	0.002	65.3	67	54.1	65.2	12.44	0.0751	22	1	95.7	1
9/27/2012	7:34 AM	67.5	67.5	67.4	86	63.2	1	NNW	0.02	3	NNW	67.5	68.9	68.9	30.151	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:35 AM	67.5	67.5	67.5	86	63.2	2	NW	0.03	4	NW	67.5	68.9	68.9	30.151	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:36 AM	67.6	67.6	67.5	85	62.9	1	NW	0.02	2	NW	67.6	69	69	30.154	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	24	1	100	1
9/27/2012	7:37 AM	67.6	67.6	67.5	85	62.9	1	SW	0.02	2	SW	67.6	69	69	30.155	0	0	0	0.002	65.3	68	54.5	65.2	12.74	0.0751	23	1	100	1
9/27/2012	7:38 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	3	SW	67.6	69	69	30.157	0	0	0	0.002	65.4	68	54.6	65.3	12.73	0.0751	24	1	100	1
9/27/2012	7:39 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	2	WSW	67.6	69	69	30.159	0	0	0	0.002	65.4	68	54.6	65.3	12.73	0.0751	23	1	100	1
9/27/2012	7:40 AM	67.7	67.7	67.6	85	63	1	W	0.02	3	W	67.7	69.1	69.1	30.159	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	22	1	95.7	1
9/27/2012	7:41 AM	67.7	67.7	67.6	85	63	0	W	0	2	W	67.7	69.1	69.1	30.16	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	24	1	100	1
9/27/2012	7:42 AM	67.7	67.7	67.7	85	63	0	W	0	1	W	67.7	69.1	69.1	30.16	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	23	1	100	1
9/27/2012	7:43 AM	67.7	67.7	67.7	85	63	1	W	0.02	4	W	67.7	69.1	69.1	30.159	0	0	0	0.002	65.4	69	55	65.4	13.03	0.0751	24	1	100	1
9/27/2012	7:44 AM	67.7	67.7	67.7	84	62.7	1	W	0.02	2	W	67.7	69.1	69.1	30.158	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	23	1	100	1
9/27/2012	7:45 AM	67.8	67.8	67.7	84	62.8	2	W	0.03	5	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:46 AM	67.8	67.8	67.8	84	62.8	1	W	0.02	3	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	24	1	100	1
9/27/2012	7:47 AM	67.8	67.8	67.8	84	62.8	0	W	0	1	W	67.8	69.2	69.2	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	23	1	100	1
9/27/2012	7:48 AM	67.9	67.9	67.8	84	62.9	1	W	0.02	3	W	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	69	55.2	65.6	13.03	0.075	24	1	100	1
9/27/2012	7:49 AM	67.9	67.9	67.9	84	62.9	2	W	0.03	4	N	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:50 AM	67.9	67.9	67.9	84	62.9	1	N	0.02	3	N	67.9	69.3	69.3	30.156	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	24	1	100	1
9/27/2012	7:51 AM	67.9	67.9	67.9	84	62.9	0	N	0	1	N	67.9	69.3	69.3	30.158	0	0	0	0.002	65.6	70	55.5	65.7	13.33	0.075	23	1	100	1
9/27/2012	7:52 AM	67.9	67.9	67.9	84	62.9	2	N	0.03	3	N	67.9	69.3	69.3	30.16	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:53 AM	67.9	67.9	67.9	84	62.9	1	N	0.02	4	WNW	67.9	69.3	69.3	30.159	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:54 AM	68	68	67.9	84	63	1	W	0.02	3	W	68	69.5	69.5	30.16	0	0	0	0.002	65.8	71	56.1	66	13.53	0.075	23	1	100	1
9/27/2012	7:55 AM	68	68	68	84	63	2	W	0.03	3	W	68	69.5	69.5	30.159	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:56 AM	68	68	68	84	63	2	W	0.03	4	W	68	69.5	69.5	30.156	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:57 AM	68	68	68	84	63	1	W	0.02	3	W	68	69.5	69.5	30.155	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	23	1	100	1
9/27/2012	7:58 AM	68	68	68	84	63	1	W	0.02	4	W	68	69.5	69.5	30.157	0	0	0	0.002	65.8	70	55.7	66	13.32	0.075	24	1	100	1
9/27/2012	7:59 AM	68	68	68	84	63	2	W	0.03	4	W	68	69.5	69.5	30.157	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:00 AM	68	68	68	84	63	3	WSW	0.05	5	W	68	69.5	69.5	30.159	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:01 AM	67.9	68	67.9	84	62.9	3	W	0.05	6	W	67.9	69.3	69.3	30.16	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:02 AM	67.9	67.9	67.9	84	62.9	1	W	0.02	3	W	67.9	69.3	69.3	30.161	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:03 AM	67.9	67.9	67.9	85	63.2	1	W	0.02	2	W	67.9	69.4	69.4	30.161	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:04 AM	67.8	67.9	67.8	84	62.8	2	W	0.03	5	W	67.8	69.2	69.2	30.162	0	0	0	0.002	65.9	72	56.6	66.2	13.75	0.075	23	1	100	1
9/27/2012	8:05 AM	67.8	67.8	67.8	85	63.1	2	WSW	0.03	4	W	67.8	69.3	69.3	30.163	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:06 AM	67.8	67.8	67.8	85	63.1	4	WSW	0.07	6	SW	67.8	69.3	69.3	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:07 AM	67.7	67.8	67.7	85	63	2	WSW	0.03	5	W	67.7	69.1	69.1	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	24	1	100	1
9/27/2012	8:08 AM	67.7	67.7	67.7	85	63	3	W	0.05	5	WSW	67.7	69.1	69.1	30.162	0	0	0	0.002	65.9	71	56.2	66.1	13.53	0.075	23	1	100	1
9/27/2012	8:09 AM	67.6	67.7	67.6	85	62.9	3	WSW	0.05	6	WSW	67.6	69	69	30.162	0	0	0	0.002	65.9	72	56.6	66.2	13.75	0.075	23	1	100	1
9/27/2012	8:10 AM	67.6	67.6	67.6	85	62.9	4	WSW	0.07	6	WSW	67.6	69	69	30.16	0	0	0	0.002	66.1	71	56.4	66.4	13.53	0.0749	24	1	100	1
9/27/2012	8:11 AM	67.6	67.6	67.6	85	62.9	1	WSW	0.02	3	WSW	67.6	69	69	30.16	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:12 AM	67.5	67.6	67.5	85	62.8	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:13 AM	67.5	67.6	67.5	85	62.8	2	WSW	0.03	3	WSW	67.5	68.9	68.9	30.158	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:14 AM	67.5	67.5	67.5	85	62.8	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:15 AM	67.5	67.5	67.5	85	62.8	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.158	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	24	1	100	1
9/27/2012	8:16 AM	67.5	67.5	67.5	85	62.8	2	WSW	0.03	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:17 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.161	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	22	1	95.7	1
9/27/2012	8:18 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.162	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:19 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.163	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:20 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.162	0	0	0	0.002	66.1	72	56.8	66.4	13.75	0.0749	23	1	100	1
9/27/2012	8:21 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	4	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	72	56.9	66.6	13.75	0.0749	22	1	95.7	1
9/27/2012	8:22 AM	67.5	67.5	67.5	86	63.2	2	SW	0.03	4	SW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:23 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:24 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:25 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:26 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	22	1	95.7	1
9/27/2012	8:27 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.159	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:28 AM	67.5	67.5	67.5	86	63.2	0	WSW	0	2	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:29 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:30 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:31 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.161	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:32 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.16	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:33 AM	67.5	67.5	67.5	86	63.2	3	WSW	0.05	5	WSW	67.5	68.9	68.9	30.157	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:34 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	3	WSW	67.5	68.9	68.9	30.156	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:35 AM	67.5	67.6	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.155	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:36 AM	67.5	67.5	67.5	86	63.2	1	WSW	0.02	2	WSW	67.5	68.9	68.9	30.154	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	24	1	100	1
9/27/2012	8:37 AM	67.5	67.6	67.5	86	63.2	0	WSW	0	1	WSW	67.5	68.9	68.9	30.154	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:38 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.15	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0749	23	1	100	1
9/27/2012	8:39 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.149	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	24	1	100	1
9/27/2012	8:40 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.147	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:41 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.146	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	24	1	100	1
9/27/2012	8:42 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.145	0	0	0	0.002	66.2	73	57.3	66.6	14.03	0.0748	23	1	100	1
9/27/2012	8:43 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:44 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.14	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:45 AM	67.5	67.5	67.5	85	62.8	0	WSW	0	1	WSW	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:46 AM	67.5	67.5	67.5	85	62.8	0	---	0	0	---	67.5	68.9	68.9	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:47 AM	67.6	67.6	67.6	86	63.3	0	---	0	0	---	67.6	69.1	69.1	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	23	1	100	1
9/27/2012	8:48 AM	67.7	67.7	67.6	86	63.4	0	WSW	0	1	WSW	67.7	69.2	69.2	30.138	0	0	0	0.002	66.4	73	57.5	66.9	14.02	0.0748	24	1	100	1
9/27/2012	8:49 AM	67.7	67.7	67.

Meteorological Data
Equity IRM

9/27/2012	10:08 AM	70.1	70.1	70.1	79	63.3	1	NE	0.02	3	NE	70.1	71.1	71.1	30.149	0	0	0	0.004	68.7	75	60.5	69.7	14.45	0.0744	24	1	100	1
9/27/2012	10:09 AM	70.2	70.2	70.1	79	63.4	2	NE	0.03	3	NE	70.2	71.2	71.2	30.15	0	0	0	0.004	68.7	75	60.5	69.7	14.45	0.0744	22	1	95.7	1
9/27/2012	10:10 AM	70.2	70.2	70.2	78	63	2	NE	0.03	4	NE	70.2	71.1	71.1	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:11 AM	70.2	70.2	70.2	77	62.6	3	ENE	0.05	7	ENE	70.2	71	71	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:12 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	ENE	70.2	71	71	30.15	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	23	1	100	1
9/27/2012	10:13 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	3	ENE	70.2	71	71	30.151	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:14 AM	70.2	70.2	70.2	77	62.6	2	ENE	0.03	4	N	70.2	71	71	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:15 AM	70.2	70.2	70.2	77	62.6	3	NNE	0.05	7	NNE	70.2	71	71	30.152	0	0	0	0.004	68.9	75	60.6	69.9	14.45	0.0743	24	1	100	1
9/27/2012	10:16 AM	70.1	70.2	70.1	76	62.2	4	NNE	0.07	8	NE	70.1	70.8	70.8	30.152	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:17 AM	70.1	70.1	70.1	76	62.2	4	NE	0.07	6	N	70.1	70.8	70.8	30.153	0	0	0	0.004	68.9	74	60.3	69.8	14.25	0.0743	24	1	100	1
9/27/2012	10:18 AM	70	70.1	70	76	62.1	3	NNW	0.05	6	NNW	70	70.7	70.7	30.154	0	0	0	0.003	68.9	74	60.3	69.8	14.25	0.0743	23	1	100	1
9/27/2012	10:19 AM	70	70	70	76	62.1	4	NNW	0.07	8	N	70	70.7	70.7	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:20 AM	69.9	70	69.9	75	61.6	3	NE	0.05	6	N	69.9	70.5	70.5	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:21 AM	69.9	70	69.9	76	62	4	E	0.07	5	E	69.9	70.6	70.6	30.155	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:22 AM	69.9	69.9	69.9	76	62	2	E	0.03	3	E	69.9	70.6	70.6	30.154	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:23 AM	69.9	69.9	69.9	77	62.4	3	NNE	0.05	5	NE	69.9	70.7	70.7	30.153	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:24 AM	69.9	69.9	69.9	77	62.4	3	NNE	0.05	4	NNE	69.9	70.7	70.7	30.154	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:25 AM	69.9	69.9	69.9	77	62.4	2	ENE	0.03	6	NE	69.9	70.7	70.7	30.151	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:26 AM	69.9	69.9	69.9	77	62.4	2	NNE	0.03	7	NNW	69.9	70.7	70.7	30.153	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:27 AM	70	70	69.9	77	62.5	2	NNW	0.03	5	NNW	70	70.8	70.8	30.151	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:28 AM	70	70	70	77	62.5	2	NNW	0.03	4	NNW	70	70.8	70.8	30.152	0	0	0	0.003	69	74	60.4	69.9	14.25	0.0743	23	1	100	1
9/27/2012	10:29 AM	70.1	70.1	70	77	62.6	2	NE	0.03	4	NNE	70.1	70.9	70.9	30.15	0	0	0	0.004	69	74	60.4	69.9	14.25	0.0743	24	1	100	1
9/27/2012	10:30 AM	70.1	70.1	70.1	77	62.6	3	NNE	0.05	5	NNE	70.1	70.9	70.9	30.152	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:31 AM	70.2	70.2	70.1	76	62.3	3	NNW	0.05	6	NNE	70.2	70.9	70.9	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:32 AM	70.3	70.3	70.2	76	62.4	3	NE	0.05	7	NNW	70.3	71.1	71.1	30.153	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	24	1	100	1
9/27/2012	10:33 AM	70.3	70.3	70.3	77	62.7	2	NE	0.03	4	NE	70.3	71.2	71.2	30.153	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:34 AM	70.4	70.4	70.3	76	62.5	4	E	0.07	8	N	70.4	71.2	71.2	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	24	1	100	1
9/27/2012	10:35 AM	70.4	70.4	70.4	75	62.1	3	NE	0.05	6	NE	70.4	71.1	71.1	30.154	0	0	0	0.004	69.2	74	60.6	70	14.25	0.0743	23	1	100	1
9/27/2012	10:36 AM	70.4	70.4	70.4	75	62.1	5	N	0.08	9	NNW	70.4	71.1	71.1	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:37 AM	70.4	70.4	70.4	75	62.1	4	ENE	0.07	8	ENE	70.4	71.1	71.1	30.154	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	24	1	100	1
9/27/2012	10:38 AM	70.4	70.4	70.4	75	62.1	4	ENE	0.07	5	ENE	70.4	71.1	71.1	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:39 AM	70.4	70.4	70.4	74	61.7	4	ENE	0.07	8	ENE	70.4	71	71	30.153	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	24	1	100	1
9/27/2012	10:40 AM	70.4	70.4	70.4	75	62.1	4	NNE	0.07	6	NE	70.4	71.1	71.1	30.149	0	0	0	0.004	69.4	73	60.4	70	13.96	0.0743	23	1	100	1
9/27/2012	10:41 AM	70.4	70.4	70.4	74	61.7	4	NE	0.07	7	NE	70.4	71	71	30.151	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:42 AM	70.4	70.4	70.4	75	62.1	4	NE	0.07	6	NNE	70.4	71.1	71.1	30.15	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	24	1	100	1
9/27/2012	10:43 AM	70.5	70.5	70.4	75	62.2	4	ENE	0.07	6	E	70.5	71.2	71.2	30.149	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:44 AM	70.5	70.5	70.5	75	62.2	3	NE	0.05	6	E	70.5	71.2	71.2	30.149	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	24	1	100	1
9/27/2012	10:45 AM	70.5	70.5	70.5	75	62.2	3	NE	0.05	5	ENE	70.5	71.2	71.2	30.15	0	0	0	0.004	69.6	73	60.6	70.1	13.96	0.0742	23	1	100	1
9/27/2012	10:46 AM	70.5	70.6	70.5	74	61.8	3	NE	0.05	6	NE	70.5	71.1	71.1	30.15	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	24	1	100	1
9/27/2012	10:47 AM	70.6	70.6	70.6	75	62.3	3	NE	0.05	5	NE	70.6	71.3	71.3	30.151	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	23	1	100	1
9/27/2012	10:48 AM	70.6	70.6	70.6	75	62.3	3	NE	0.05	5	NE	70.6	71.3	71.3	30.152	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	23	1	100	1
9/27/2012	10:49 AM	70.6	70.6	70.6	76	62.7	2	NE	0.03	4	NE	70.6	71.4	71.4	30.153	0	0	0	0.004	69.7	73	60.7	70.2	13.96	0.0742	24	1	100	1
9/27/2012	10:50 AM	70.7	70.7	70.6	75	62.4	2	NE	0.03	4	NE	70.7	71.4	71.4	30.153	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	22	1	95.7	1
9/27/2012	10:51 AM	70.9	70.9	70.8	74	62.2	4	ENE	0.07	7	NE	70.9	71.6	71.6	30.154	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	24	1	100	1
9/27/2012	10:52 AM	70.9	70.9	70.9	74	62.2	3	ENE	0.05	4	ENE	70.9	71.6	71.6	30.155	0	0	0	0.004	69.9	73	60.8	70.3	13.95	0.0742	22	1	95.7	1
9/27/2012	10:53 AM	71	71	70.9	73	61.9	4	ENE	0.07	7	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.1	73	61	70.5	13.95	0.0741	22	1	95.7	1
9/27/2012	10:54 AM	71	71	71	73	61.9	3	ENE	0.05	5	ENE	71	71.6	71.6	30.155	0	0	0	0.004	70.1	73	61	70.5	13.95	0.0741	24	1	100	1
9/27/2012	10:55 AM	71	71	71	73	61.9	3	ENE	0.05	5	ENE	71	71.6	71.6	30.155	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	22	1	95.7	1
9/27/2012	10:56 AM	71	71	71	73	61.9	4	ENE	0.07	8	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	24	1	100	1
9/27/2012	10:57 AM	71	71	71	73	61.9	3	ENE	0.05	3	ENE	71	71.6	71.6	30.154	0	0	0	0.004	70.2	73	61.1	70.6	13.94	0.0741	22	1	95.7	1
9/27/2012	10:58 AM	71	71	71	74	62.3	3	NNE	0.05	6	NNE	71	71.7	71.7	30.15	0	0	0	0.004	70.4	72	60.9	70.8	13.73	0.0741	24	1	100	1
9/27/2012	10:59 AM	71.1	71.1	71.1	73	62	3	NE	0.05	4	ENE	71.1	71.8	71.8	30.151	0	0	0	0.004	70.4	72	60.9	70.8	13.73	0.0741	21	1	91.3	1
9/27/2012	11:00 AM	71.1	71.1	71.1	73	62	3	ENE	0.05	5	ENE	71.1	71.8	71.8	30.15	0	0	0	0.004	70.6	72	61.1	71.1	13.73	0.0741	23	1	100	1
9/27/2012	11:01 AM	71.1	71.1	71.1	74	62.4	2	NNE	0.03	5	ENE	71.1	71.8	71.8	30.15	0	0	0	0.004	70.6	72	61.1	71.1	13.73	0.0741	23	1	100	1
9/27/2012	11:02 AM	71.2	71.2	71.1	74	62.5	2	E	0.03	6	E	71.2	72	72	30.151	0	0	0	0.004	70.7	72	61.2	71.2	13.72	0.074	22	1	95.7	1
9/27/2012	11:03 AM	71.2	71.2	71.1	74	62.5	2	ENE	0.03	3	ENE	71.2	72	72	30.152	0	0	0	0.004	70.7	72	61.2	71.2	13.72	0.074	24	1	100	1
9/27/2012	11:04 AM	71.3	71.3	71.2	73	62.2	2	ENE	0.03	7	ENE	71.3	72	72	30.152	0	0	0	0.004	70.9	72	61.4	71.4	13.71	0.074	23	1	100	1
9/27/2012	11:05 AM	71.3	71.3	71.3	72	61.8	4	NE	0.07	8	ENE	71.3	71.9	71.9	30.152	0	0	0	0.004	70.9	72	61.4	71.4	13.71	0.074	23	1	100	1
9/27/2012	11:06 AM	71.3	71.4	71.3	73	62.2	3	NE	0.05	5	NE	71.3	72	72	30.152	0	0	0	0.004	71.1	72	61.6	71.7	13.71	0.074	23	1	100	1
9/27/2012	11:07 AM	71.4	71.4	71.4	73	62.3	3	NE	0.05	5	NE	71.4	72.1	72.1	30.152	0	0	0	0.004	71.1	72	61.6	71.7	13.71	0.074	23	1	100	1
9/27/2012	11:08 AM	71.5	71.5	71.4	72	62	2	ENE	0.03	4	ENE	71.5	72.2	72.2	30.152	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	24	1	100	1
9/27/2012	11:09 AM	71.5	71.5	71.5	73	62.4	2	ENE	0.03	4	N	71.5	72.3	72.3	30.15	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	23	1	100	1
9/27/2012	11:10 AM	71.6	71.6	71.5	73	62.5	3	ENE	0.05	4	ENE	71.6	72.4	72.4	30.149	0	0	0	0.005	71.2	72	61.7	71.8	13.7	0.0739	24	1	100	1
9/27/2012	11:11 AM	71.7	71.7	71.6	72	62.2	2	NE	0.03	5	NE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.4	72	61.9	72.1	13.69	0.0739	23	1	100	1
9/27/2012	11:12 AM	71.7	71.7	71.7	72	62.2	2	NE	0.03	4	NE	71.7	72.4	72.4	30.149	0	0	0	0.005	71.4	72	61.9	72.1	13.69	0.0739	23	1	100	1
9/27/2012	11:13 AM	71.7	71.7	71.7	72	62.2	3	ENE	0.05	4	ENE	71.7	72.4	72.4	30.151	0	0	0	0.005	71.6	72	62.1	72.3	13.69	0.0739	24	1	100	1
9/27/2012	11:14 AM	71.8	71.8	71.7	71	61.9	4	ENE	0.07	8	ENE	71.8	72.5	72.5	30.152	0	0	0	0.005	71.6	72	62.1	72.3	13.69	0.0739	23	1	100	1
9/27/2012	11:15 AM	71.7	71.8	71.7	71	61.8	3	E	0.05	5	ENE	71.7	72.4	72.4	30.153	0	0	0	0.005	71.8	72	62.3	72.6	13.68	0.0738	24	1	100	1
9/27/2012	11:16 AM	71.7	71.7	71.7	70	61.4	3	E	0.05	5	E	71.7	72.3	72.3	30.152	0	0	0	0.005	71.8	72	62.3	72.6	13.68	0.0738	23	1	100	1
9/27/2012	11:17 AM	71.7	71.7	71.7	71	61.8	4	ENE	0.07	7	ENE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.9	72	62.4	72.7	13.67	0.0738	23	1	100	1
9/27/2012	11:18 AM	71.7	71.7	71.7	71	61.8	3	ENE	0.05	5	ENE	71.7	72.4	72.4	30.15	0	0	0	0.005	71.9	71	62	72.6	13.37	0.0738	24	1	100	1
9/27/2012	11:19 AM	71.7	71.7	71.7	71	61.8	2	ENE	0.03	2	ENE	71.7	72.4	72.4	30.152	0	0	0	0.005	72.1	71	62.2	72.9	13.37	0.0738	23	1	100	1
9/27/2012	11:20 AM	71.7	71.7	71.7	70	61.4	1	ENE	0.02	3	ENE	71.7	72.3	72.3	30.151	0	0	0	0.005	72.1	71	62.2	72.9	13.37	0.0738	24	1	100	1
9/27/2012	11:21 AM	71.8	71.8	71.8	71	61.9	2	ENE	0.03	3	ENE	71.8	72.5	72.5	30.148	0	0	0	0.005	72.3	71	62.4	73.2	13.36	0.0738	23	1	100	1
9/27/2012	11:22 AM	71.9	71.9	71.8	71	62	2	ENE	0.03	4	N	71.9	72.6	72.6	30.148	0	0	0	0.005	72.3	71	62.4	73.2	13.36	0.0738	24	1	100	1
9/27/2012	11:23 AM	72.1	72.1	72	71	62.2	1	ENE	0.02	1	ENE	72.1	72.9	72.9	30.147	0	0	0	0.005	72.4	71	62.5	73.3	13.35	0.0737	23	1	100	1
9/27/2012	11:24 AM	72.2	72.2	72.1	70	61.9	1	ENE	0.02	2	ENE	72.2	73	73	30.145	0	0	0	0.005	72.4	71	62.5	73.3	13.35	0.0737	23	1	100	1
9/27/2012	11:25 AM	72.4	72.4	72.2	70	62.1	2	ENE	0.03	5	ENE	72.4	73.3	73.3	30.147	0	0	0	0.005	72.6	71	62.7	73.6	13.35	0.0737	24	1	100	1
9/27/2012	11:26 AM	72.5	72.5	72.4	69	61.7	3	ENE	0.05	7	ENE	72.5	73.3	73.3	30.146	0	0	0	0.005	72.6	71	62.7	73.6	13.35	0.0737	23	1	100	1
9/27/2012	11:27 AM	72.7	72.7	72.6	67	61.1	4	E	0.07	8	E	72.7	73.4	73.4	30.147	0	0	0	0.005	72.8	71	62.8	73.9	13.34	0.0737	24	1	100	1
9/27/2012	11:28 AM	72.7	72.7	72.7	67	61.1	4	ENE	0.07	8	ENE	72.7	73.4	73.4	30.146	0	0	0	0.005	73	71	63	74.2	13.33	0.0736	23	1	100	1
9/27/2012	11:29 AM	72.7	72.7	72.7	67	61.1	3	E	0.05	6	E	72.7	73.4	73.4	30.146	0	0	0	0.005	73	71	63	74.2	13.33	0.0736	23	1	100	1
9/27/2012	11:30 AM	72.8	72.8	72.7	66	60.8	2	E	0.03	3	E	72.8	73.5	73.5	30.143	0	0	0	0.005	73.1	70	62.7	74.3	13.03	0.0736	24	1	100	1
9/27/2012	11:31 AM	72.9	72.9	72.8	67	61.3	2	E	0.03	5	E	72.9	73.7	73.7	30.144	0	0	0	0.005	73.3	70	62.9	74.6	13.02	0.0736	23	1	100	1
9/27/2012	11:32 AM	73	73	72.9	66	61	3	ENE	0.05	5	E	73	73.8	73.8	30.145	0	0	0	0.006	73.3	70	62.9	74.6	13.02	0.0736	24	1	100	1
9/27/2012	11:33 AM	73.1	73.1	73.1	66	61.1	2	ENE	0.03	4	ENE	73.1	73.9	73.9	30.146	0	0	0	0.006	73.5	70	63.1	74.8	13.01	0.0735	23	1	100	1
9/27/2012	11:34 AM	73.1	73.1	73.1	65	60.6	3	ENE	0.05	4	ENE	73.1	73.8	73.8	30.145	0	0	0	0.006	73.6	70	63.2	75	13.01	0.0735	23	1	100	1
9/27/2012	11:35 AM	73.1	73.2	73.1	66	61.1	2	ENE	0.03	4	ENE	73.1	73.9	73.9	30.146	0	0	0	0.006	73.6	70	63.2	75	13.01	0.0735	24	1	100	1
9/27/2012	11:36 AM	73.1	73.2	73.1	65	60.6	5	ENE	0.08	7	E	73.1	73.8	73.8	30.146	0	0	0	0.006	73.8	70	63.4	75.3	13	0.0735	23	1	100	1
9/27/2012	11:37 AM	73.1	73.1	73.1	64	60.2	4	E	0.07	7	ENE	73.1	73.8	73.8	30.147	0	0	0	0.006	74	69	63.2	75.5	12.77	0.0735	24	1	100	1
9/27/2012	11:38 AM	73.2	73.2	73.1	64	60.3	5	ENE	0.08	8	E	73.2	73.9	73.9	30.147	0	0	0	0.006	74	69	63.2	75.5	12.77	0.0735	23	1	100	1
9/27/2012	11:39 AM	73.3	73.3	73.2	64	60.4	4	ENE	0.07	7	ENE	73.3	74.1	74.1	30.147	0	0	0	0.006	74.2	69	63.4	75.7	12.77	0.0734	24	1	100	1
9/27/2012	11:40 AM	73.4	73.4	73.3	65	60.9	4	ENE	0.07	8	ENE	73.4	74.3	74.3	30.147	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	22	1	95.7	1
9/27/2012	11:41 AM	73.4	73.5	73.4	63	60	4	ENE	0.07	7	ENE	73.4	74.1	74.1	30.149	0	0	0	0.006	74.3	69	63.5	75.8	12.76	0.0734	23	1	100	1
9/27/2012	11:42 AM	73.5	73.5	73.4	63	60.1	2	ENE	0.03	4	ENE	73.5	74.3	74.3	30.151	0	0	0	0.006	74.5	68	63.2	76	12.55	0.0734	23	1	100	1
9/27/2012	11:43 AM	73.5	73.5	73.5	64	60.6	1	NE	0.02	2	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:44 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.7	68	63.4	76.2	12.55	0.0734	23	1	100	1
9/27/2012	11:45 AM	73.5	73.5	73.5	65	61	2	NE	0.03	3	NE	73.5	74.4	74.4	30.15	0	0	0	0.006	74.9	68	63.6	76.4	12.55	0.0733	22	1	95.7	1
9/27/2012	11:46 AM	73.7	73.7	73.5	65	61.2	3	NE	0.05	5	N	73.7	74.7	74.7	30.148	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:47 AM	73.8	73.8	73.7	64	60.9	1	NE	0.02	3	NE	73.8	74.8	74.8	30.15	0	0	0	0.006	75	68	63.7	76.5	12.55	0.0733	23	1	100	1
9/27/2012	11:48 AM	73.9	73.9	73.8

Meteorological Data
Equity IRM

9/27/2012	1:08 PM	76.5	76.5	76.5	56	59.6	0	E	0	1	E	76.5	76.9	76.9	30.138	0	0	0	0.008	81	59	65.3	82.5	10.55	0.0724	24	1	100	1
9/27/2012	1:09 PM	76.4	76.5	76.4	56	59.5	2	E	0.03	3	E	76.4	76.8	76.8	30.137	0	0	0	0.008	81	59	65.3	82.5	10.55	0.0724	23	1	100	1
9/27/2012	1:10 PM	76.3	76.4	76.3	56	59.4	2	E	0.03	5	E	76.3	76.7	76.7	30.134	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	23	1	100	1
9/27/2012	1:11 PM	76.2	76.3	76.2	56	59.4	2	E	0.03	3	E	76.2	76.6	76.6	30.133	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	24	1	100	1
9/27/2012	1:12 PM	76.1	76.1	76.1	57	59.8	2	E	0.03	5	E	76.1	76.6	76.6	30.132	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	23	1	100	1
9/27/2012	1:13 PM	76	76	76	57	59.7	4	ENE	0.07	8	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.2	58	65	82.7	10.35	0.0724	24	1	100	1
9/27/2012	1:14 PM	76	76	76	57	59.7	1	ENE	0.02	4	ENE	76	76.5	76.5	30.131	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:15 PM	76.1	76.1	76	57	59.8	2	ENE	0.03	4	ENE	76.1	76.6	76.6	30.129	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	23	1	100	1
9/27/2012	1:16 PM	76.2	76.2	76.1	56	59.4	4	ENE	0.07	5	ENE	76.2	76.6	76.6	30.129	0	0	0	0.008	81.4	59	65.7	83.1	10.55	0.0723	23	1	100	1
9/27/2012	1:17 PM	76.3	76.3	76.3	55	58.9	3	ENE	0.05	5	ENE	76.3	76.6	76.6	30.128	0	0	0	0.008	81.4	58	65.2	83	10.35	0.0723	22	1	95.7	1
9/27/2012	1:18 PM	76.6	76.6	76.3	56	59.7	2	ENE	0.03	3	ENE	76.6	77	77	30.128	0	0	0	0.008	81.6	58	65.4	83.3	10.35	0.0723	23	1	100	1
9/27/2012	1:19 PM	76.7	76.7	76.6	55	59.3	2	ENE	0.03	4	ENE	76.7	77	77	30.127	0	0	0	0.008	81.6	57	64.9	83.1	10.18	0.0723	23	1	100	1
9/27/2012	1:20 PM	76.8	76.8	76.7	55	59.4	0	ENE	0	1	ENE	76.8	77.1	77.1	30.128	0	0	0	0.008	81.6	58	65.4	83.3	10.35	0.0723	22	1	95.7	1
9/27/2012	1:21 PM	76.9	76.9	76.8	54	59	0	ENE	0	1	ENE	76.9	77.1	77.1	30.127	0	0	0	0.008	81.6	57	64.9	83.1	10.18	0.0723	24	1	100	1
9/27/2012	1:22 PM	77	77	76.9	54	59.1	1	ENE	0.02	4	ENE	77	77.2	77.2	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	22	1	95.7	1
9/27/2012	1:23 PM	77.1	77.1	77	54	59.2	2	ENE	0.03	4	ENE	77.1	77.3	77.3	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	24	1	100	1
9/27/2012	1:24 PM	77.1	77.1	77.1	56	60.2	0	ENE	0	1	ENE	77.1	77.5	77.5	30.126	0	0	0	0.008	81.8	57	65.1	83.4	10.19	0.0723	22	1	95.7	1
9/27/2012	1:25 PM	77.2	77.2	77.1	55	59.8	1	ENE	0.02	2	ENE	77.2	77.5	77.5	30.127	0	0	0	0.008	81.8	55	64.1	83.1	9.85	0.0723	24	1	100	1
9/27/2012	1:26 PM	77.3	77.3	77.3	55	59.9	1	ENE	0.02	3	ENE	77.3	77.7	77.7	30.125	0	0	0	0.009	82	56	64.8	83.6	10.05	0.0723	22	1	95.7	1
9/27/2012	1:27 PM	77.4	77.4	77.3	54	59.5	0	ENE	0	1	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	56	64.8	83.6	10.05	0.0723	22	1	95.7	1
9/27/2012	1:28 PM	77.4	77.4	77.4	54	59.5	1	ENE	0.02	2	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	55	64.2	83.4	9.85	0.0723	24	1	100	1
9/27/2012	1:29 PM	77.4	77.5	77.4	54	59.5	1	ENE	0.02	3	ENE	77.4	77.7	77.7	30.125	0	0	0	0.009	82	54	63.7	83.2	9.75	0.0723	23	1	100	1
9/27/2012	1:30 PM	77.3	77.4	77.3	54	59.4	2	ENE	0.03	3	ENE	77.3	77.6	77.6	30.125	0	0	0	0.009	82.1	54	63.8	83.4	9.75	0.0723	24	1	100	1
9/27/2012	1:31 PM	77.2	77.3	77.2	54	59.3	3	ENE	0.05	4	ENE	77.2	77.4	77.4	30.126	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:32 PM	77.1	77.1	77.1	55	59.7	3	ENE	0.05	4	ENE	77.1	77.4	77.4	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:33 PM	76.9	77.1	76.9	54	59	3	NE	0.05	5	ENE	76.9	77.1	77.1	30.128	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:34 PM	76.8	76.9	76.8	55	59.4	1	NE	0.02	2	NE	76.8	77.1	77.1	30.129	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:35 PM	76.7	76.8	76.7	55	59.3	2	NE	0.03	3	NE	76.7	77	77	30.13	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	24	1	100	1
9/27/2012	1:36 PM	76.5	76.7	76.5	55	59.1	1	NE	0.02	2	NE	76.5	76.8	76.8	30.129	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:37 PM	76.4	76.5	76.4	57	60	2	NE	0.03	3	ENE	76.4	76.9	76.9	30.13	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	24	1	100	1
9/27/2012	1:38 PM	76.4	76.4	76.4	56	59.5	3	N	0.05	5	N	76.4	76.8	76.8	30.128	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:39 PM	76.3	76.4	76.3	55	58.9	3	NNW	0.05	5	NNW	76.3	76.6	76.6	30.129	0	0	0	0.008	82.3	53	63.5	83.5	9.6	0.0723	23	1	100	1
9/27/2012	1:40 PM	76.3	76.3	76.3	56	59.4	2	NNW	0.03	3	NNW	76.3	76.7	76.7	30.128	0	0	0	0.008	82.3	54	64	83.7	9.75	0.0723	24	1	100	1
9/27/2012	1:41 PM	76.2	76.3	76.2	56	59.4	2	NNW	0.03	4	NNW	76.2	76.6	76.6	30.125	0	0	0	0.008	82.3	55	64.5	83.9	9.85	0.0722	23	1	100	1
9/27/2012	1:42 PM	76.1	76.2	76.1	56	59.3	1	N	0.02	2	NNW	76.1	76.5	76.5	30.128	0	0	0	0.008	82.3	54	64	83.7	9.75	0.0723	24	1	100	1
9/27/2012	1:43 PM	76	76.1	76	57	59.7	0	N	0	1	N	76	76.5	76.5	30.127	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:44 PM	76	76	76	57	59.7	2	N	0.03	3	N	76	76.5	76.5	30.127	0	0	0	0.008	82.1	54	63.8	83.4	9.75	0.0723	23	1	100	1
9/27/2012	1:45 PM	75.9	76	75.9	56	59.1	0	NNE	0	2	NNE	75.9	76.3	76.3	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:46 PM	75.9	75.9	75.9	57	59.6	0	NNE	0	1	NNE	75.9	76.4	76.4	30.128	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:47 PM	75.9	75.9	75.9	57	59.6	2	NE	0.03	3	NE	75.9	76.4	76.4	30.127	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:48 PM	75.8	75.9	75.8	57	59.5	2	NE	0.03	3	NE	75.8	76.3	76.3	30.126	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	23	1	100	1
9/27/2012	1:49 PM	75.8	75.8	75.8	57	59.5	3	NE	0.05	4	NE	75.8	76.3	76.3	30.126	0	0	0	0.008	82.1	53	63.3	83.2	9.61	0.0723	24	1	100	1
9/27/2012	1:50 PM	75.7	75.7	75.7	57	59.4	1	NE	0.02	3	ENE	75.7	76.2	76.2	30.125	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	23	1	100	1
9/27/2012	1:51 PM	75.7	75.7	75.7	57	59.4	2	ENE	0.03	3	ENE	75.7	76.2	76.2	30.122	0	0	0	0.007	82	53	63.2	83.1	9.61	0.0723	23	1	100	1
9/27/2012	1:52 PM	75.6	75.6	75.6	57	59.3	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	24	1	100	1
9/27/2012	1:53 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.122	0	0	0	0.007	82	52	62.6	82.9	9.41	0.0724	23	1	100	1
9/27/2012	1:54 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.119	0	0	0	0.007	82	53	63.2	83.1	9.61	0.0723	24	1	100	1
9/27/2012	1:55 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.119	0	0	0	0.007	81.8	53	63	82.8	9.61	0.0724	23	1	100	1
9/27/2012	1:56 PM	75.6	75.6	75.6	57	59.3	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.115	0	0	0	0.007	81.8	51	61.9	82.5	9.31	0.0724	23	1	100	1
9/27/2012	1:57 PM	75.7	75.7	75.6	57	59.4	1	ENE	0.02	2	ENE	75.7	76.2	76.2	30.116	0	0	0	0.007	81.8	53	63	82.8	9.61	0.0724	24	1	100	1
9/27/2012	1:58 PM	75.7	75.7	75.7	56	58.9	1	ENE	0.02	2	ENE	75.7	76.1	76.1	30.116	0	0	0	0.007	81.8	52	62.5	82.6	9.41	0.0724	23	1	100	1
9/27/2012	1:59 PM	75.7	75.7	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.117	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	24	1	100	1
9/27/2012	2:00 PM	75.7	75.7	75.7	56	58.9	0	---	0	0	---	75.7	76.1	76.1	30.119	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	23	1	100	1
9/27/2012	2:01 PM	75.7	75.7	75.7	56	58.9	0	---	0	0	---	75.7	76.1	76.1	30.12	0	0	0	0.007	81.6	52	62.3	82.3	9.42	0.0724	24	1	100	1
9/27/2012	2:02 PM	75.8	75.8	75.7	56	59	0	ENE	0	1	ENE	75.8	76.2	76.2	30.12	0	0	0	0.008	81.6	53	62.8	82.5	9.62	0.0724	23	1	100	1
9/27/2012	2:03 PM	75.8	75.8	75.7	56	59	0	---	0	0	---	75.8	76.2	76.2	30.118	0	0	0	0.008	81.4	52	62.1	82.1	9.42	0.0725	22	1	95.7	1
9/27/2012	2:04 PM	75.8	75.8	75.8	56	59	1	ENE	0.02	3	ENE	75.8	76.2	76.2	30.119	0	0	0	0.008	81.4	52	62.1	82.1	9.42	0.0725	24	1	100	1
9/27/2012	2:05 PM	75.9	75.9	75.8	56	59.1	1	ENE	0.02	2	ENE	75.9	76.3	76.3	30.12	0	0	0	0.008	81.4	53	62.6	82.2	9.62	0.0724	22	1	95.7	1
9/27/2012	2:06 PM	75.8	75.9	75.8	56	59	0	ENE	0	1	ENE	75.8	76.2	76.2	30.119	0	0	0	0.008	81.4	53	62.6	82.2	9.62	0.0724	24	1	100	1
9/27/2012	2:07 PM	75.7	75.8	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.119	0	0	0	0.007	81.4	53	62.6	82.2	9.62	0.0724	22	1	95.7	1
9/27/2012	2:08 PM	75.7	75.7	75.7	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.121	0	0	0	0.007	81.4	52	62.1	82.1	9.42	0.0725	23	1	100	1
9/27/2012	2:09 PM	75.6	75.7	75.6	57	59.3	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	23	1	100	1
9/27/2012	2:10 PM	75.4	75.5	75.4	57	59.1	1	ENE	0.02	2	ENE	75.4	76	76	30.121	0	0	0	0.007	81.2	53	62.4	81.9	9.63	0.0725	22	1	95.7	1
9/27/2012	2:11 PM	75.3	75.4	75.3	57	59	0	ENE	0	1	ENE	75.3	75.9	75.9	30.12	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	24	1	100	1
9/27/2012	2:12 PM	75.3	75.3	75.2	57	59	0	ENE	0	1	ENE	75.3	75.9	75.9	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	22	1	95.7	1
9/27/2012	2:13 PM	75.2	75.2	75.2	57	58.9	0	ENE	0	1	ENE	75.2	75.8	75.8	30.121	0	0	0	0.007	81.2	52	61.9	81.8	9.43	0.0725	23	1	100	1
9/27/2012	2:14 PM	75.2	75.2	75.2	57	58.9	0	---	0	0	---	75.2	75.8	75.8	30.121	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	23	1	100	1
9/27/2012	2:15 PM	75.2	75.2	75.2	58	59.4	0	---	0	0	---	75.2	75.9	75.9	30.121	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	23	1	100	1
9/27/2012	2:16 PM	75.3	75.3	75.2	58	59.5	0	ENE	0	1	ENE	75.3	76	76	30.121	0	0	0	0.007	81	51	61.2	81.3	9.33	0.0726	24	1	100	1
9/27/2012	2:17 PM	75.4	75.4	75.3	57	59.1	0	ENE	0	1	ENE	75.4	76	76	30.121	0	0	0	0.007	81	51	61.2	81.3	9.33	0.0726	23	1	100	1
9/27/2012	2:18 PM	75.5	75.5	75.4	57	59.2	0	ENE	0	1	ENE	75.5	76.1	76.1	30.123	0	0	0	0.007	81	52	61.7	81.5	9.43	0.0725	24	1	100	1
9/27/2012	2:19 PM	75.6	75.6	75.5	56	58.8	2	ENE	0.03	3	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:20 PM	75.6	75.6	75.6	56	58.8	1	ENE	0.02	2	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	52	61.5	81.3	9.43	0.0726	23	1	100	1
9/27/2012	2:21 PM	75.7	75.7	75.6	56	58.9	0	ENE	0	1	ENE	75.7	76.1	76.1	30.125	0	0	0	0.007	80.8	52	61.5	81.3	9.43	0.0726	24	1	100	1
9/27/2012	2:22 PM	75.7	75.7	75.7	57	59.4	0	ENE	0	2	ENE	75.7	76.2	76.2	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:23 PM	75.6	75.7	75.6	56	58.8	1	ENE	0.02	3	ENE	75.6	76.1	76.1	30.124	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	24	1	100	1
9/27/2012	2:24 PM	75.6	75.6	75.6	57	59.3	0	ENE	0	1	ENE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.8	51	61	81.1	9.33	0.0726	23	1	100	1
9/27/2012	2:25 PM	75.6	75.6	75.5	56	58.8	2	ENE	0.03	4	ENE	75.6	76.1	76.1	30.122	0	0	0	0.007	80.6	51	60.8	80.9	9.34	0.0726	23	1	100	1
9/27/2012	2:26 PM	75.5	75.5	75.5	56	58.7	2	ESE	0.03	5	E	75.5	76	76	30.121	0	0	0	0.007	80.6	51	60.8	80.9	9.34	0.0726	24	1	100	1
9/27/2012	2:27 PM	75.5	75.5	75.4	57	59.2	2	ESE	0.03	3	ESE	75.5	76.1	76.1	30.122	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:28 PM	75.5	75.5	75.5	57	59.2	1	NE	0.02	3	NE	75.5	76.1	76.1	30.12	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	24	1	100	1
9/27/2012	2:29 PM	75.6	75.6	75.5	57	59.3	1	NE	0.02	2	NE	75.6	76.1	76.1	30.123	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:30 PM	75.6	75.6	75.6	57	59.3	1	NE	0.02	3	NE	75.6	76.1	76.1	30.125	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	23	1	100	1
9/27/2012	2:31 PM	75.7	75.7	75.6	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.123	0	0	0	0.007	80.6	52	61.3	81	9.44	0.0726	22	1	95.7	1
9/27/2012	2:32 PM	75.7	75.7	75.7	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.125	0	0	0	0.007	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:33 PM	75.7	75.8	75.7	57	59.4	0	NE	0	1	NE	75.7	76.2	76.2	30.125	0	0	0	0.007	80.5	52	61.3	80.9	9.44	0.0726	24	1	100	1
9/27/2012	2:34 PM	75.8	75.8	75.8	57	59.5	0	NE	0	1	NE	75.8	76.3	76.3	30.125	0	0	0	0.008	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:35 PM	75.9	75.9	75.8	58	60.1	0	---	0	0	---	75.9	76.5	76.5	30.124	0	0	0	0.008	80.5	51	60.7	80.8	9.34	0.0727	24	1	100	1
9/27/2012	2:36 PM	75.9	75.9	75.9	57	59.6	0	---	0	0	---	75.9	76.4	76.4	30.124	0	0	0	0.008	80.5	52	61.3	80.9	9.44	0.0726	23	1	100	1
9/27/2012	2:37 PM	75.9	75.9	75.9	57	59.6	0	NE	0	1	NE	75.9	76.4	76.4	30.125	0	0	0	0.008	80.5	55	62.8	81.3	9.85	0.0726	23	1	100	1
9/27/2012	2:38 PM	75.9	76	75.9	56	59.1	1	NE	0.02	2	NE	75.9	76.3	76.3	30.125	0	0	0	0.008	80.5	56	63.4	81.4	10.05	0.0725	24	1	100	1
9/27/2012	2:39 PM	76	76	75.9	57	59.7	1	NE	0.02	3	NE	76	76.5	76.5	30.125	0	0	0	0.008	80.5	57	63.9	81.6	10.16	0.0725	22	1	95.7	1
9/27/2012	2:40 PM	76	76	76	56	59.2	1	NE	0.02	2	NE	76	76.4	76.4	30.124	0	0	0	0.008	80.5	57	63.9	81.6	10.16	0.0725	24	1	100	1
9/27/2012	2:41 PM	75.9	76	75.9	56	59.1	1	NE	0.02	2	NE	75.9	76.3	76.3	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:42 PM	75.9	75.9	75.9	56	59.1	2	NE	0.03	4	NE	75.9	76.3	76.3	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	24	1	100	1
9/27/2012	2:43 PM	75.8	75.9	75.8	56	59	2	NE	0.03	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	58	64.5	81.9	10.35	0.0725	23	1	100	1
9/27/2012	2:44 PM	75.8	75.9	75.8	56	59	0	NE	0	1	NE	75.8	76.2	76.2	30.124	0	0	0	0.008	80.6	57	64	81.7	10.16	0.0725	23	1	100	1
9/27/2012	2:45 PM	75.8	75.8	75.8	56	59	1	NE	0.02	3	NE	75.8	76.2	76.2	30.125	0	0	0	0.008	80.6	54	62.4	81.3	9.75	0.0726	24	1	100	1

Appendix C

Vibration Monitoring Report

AECOM
One World Financial Center
200 Liberty Street, 25th Floor
(212)798-8500

Memorandum

Date: October 10, 2012

To: Jenifer Pfeiffer

From: Fang Yang, Priyal Pandya, and Brian Brownworth

Subject: Equity Excavation Activity Vibration Monitoring Results

Introduction

AECOM has been retained by National Grid to conduct a vibration monitoring program at the Equity Former MGP Site, located at 254 Maspeth Avenue, Brooklyn, NY, during the short duration when the excavation activity of using heavy equipment occurred on site. The purpose of this program is to monitor potential seismic effects from heavy equipment operation on neighborhood structures to ensure that no potential structure damage would occur.

Vibration Fundamentals

A source (such as using a excavator and backhoe hammer for excavation activity) can excite the adjacent ground, creating vibration waves that propagate (or move) through the various soil and rock strata potentially reaching the foundations of nearby buildings and then throughout the parts of the building structure. The effects of ground-borne vibration can include perceptible movement of the building floors, rattling of windows, shaking of items on shelves or hanging on walls, and rumbling sounds. Vibration effects can range from simply causing annoyance to people inside buildings, to minor (cosmetic) damage to walls and ceiling, to major structural damage, although the latter is an extremely rare occurrence. Differences in these vibration outcomes is related to the magnitude of the vibration that propagates to nearby structures. Vibrations of greater magnitude may cause building damage but vibrations at much lower levels may be felt by humans but be too low to cause building damage.

Evaluation criteria for determining vibration impacts due to remediation activities include thresholds for (1) human perception, annoyance, and interference and (2) damage to fragile and historical buildings. Although no standardized vibration criteria for construction activities have been established, exceedances of certain vibration levels may typically cause community reactions.

Vibration energy is measured as peak particle velocity (PPV). PPV is appropriate for evaluating vibration associated with construction activities, and the resulting stresses that potentially are damaging to buildings. PPV represents the maximum instantaneous positive or negative peak of a vibration signal, and is commonly used to measure and evaluate impulse vibrations associated with excavation. The U.S. Bureau of Mines (USBM) publishes guidelines

based on PPV that is frequently used to set acceptable vibration limits for various types of structures.

Vibration Limit

The structure damage thresholds are defined for various building structures depending on the structure's strength and ability to absorb ground-borne vibration. Since all buildings are continually exposed to vibration, they are generally designed to withstand elevated ground-borne vibration without resulting in stress fractures or hairline cracks. For most buildings, the likelihood of damage or even minor cosmetic damage is highly unlikely unless there are pre-existing faults with the building structure and there is nearby blasting or excessive pounding from construction equipment (such as excavator).

By definition, the PPV is the maximum rate of change of position (displacement) with respect to time as measured on the ground surface. The velocity amplitudes are given in units of inches per second (ips) from zero to peak amplitude. The frequency of vibration is the number of oscillations that occur in one second. The frequency units given are in hertz (cycles per second). The dominant frequency is usually defined as the frequency at the maximum particle velocity, which can be shown from the seismograph. The particle velocity is recorded in three (3) perpendicular axes, with the maximum allowable peak particle velocity being in the maximum measure along any of three axes.

Thresholds of vibration induced cracking are generally site specific and depend on the type and age of the structure, the frequency of ground-borne vibration, and type of soil supporting the structure. Research by the USBM and other investigative groups have established criteria relating the occurrence of structural damage to certain frequencies and level of ground motion. According to the USBM, within the range of four (4) to 12 hertz, the maximum particle velocity recommended to preclude the threshold damage to plaster-on-wood for old structures is 0.5 inch per second (ips) and 0.1 ips established for historic monuments. Given the structure types around the Maspeth Avenue excavation site, 0.5 ips is considered a conservative threshold that can be used as a warning threshold for potential plaster cracker at nearby building structures.

Vibration Monitoring

Baseline Condition

The baseline vibration monitoring was performed prior to the excavation activity, on September 6, 2012 and September 7, 2012. The baseline recorded data for the monitor (shows that the baseline vibration levels remained below Warning Action Limit of 0.5 ips.

Remedial Action Condition

Vibration monitoring was continuously conducted for approximately three weeks in month of September 2012 from week of September 10, 2012 through week of September 24, 2012. One Minimate seismograph with a geophone was installed within the site that is the closest to excavation area with potential worst-case ground-borne vibration impact from the excavation activities (see Figure 1 through Figure 4). The monitor was setup with an event trigger corresponding to the site-specific Warning Action Limit of 0.5 ips. The vibration levels were monitored remotely in real time and a warning email would be sent out to the key monitoring staffs and site engineer if a warning threshold were exceeded so that the on-site engineer could investigate the cause of exceedance occurrence and take appropriate action if necessary.

Table 1 provides the vibration monitoring summary. During the entire monitored period, no event exceeding the Warning Action Limit associated with the monitored excavation activities was recorded with one exception. On September 24th, one event exceeding the 0.5 ips Warning Action Limit was recorded at 08:12 a.m. with the PVS of 0.789 ips. Detail monitoring backups are attached to this memo. The events highlighted in yellow in the backup are from monitoring setup/human interruption.

Table 1

Vibration Monitoring (ips)	
Unit	BE11263
Warning Action Limit	0.5
Baseline Condition	
6th September and 7th September	No event recorded
Remedial Action Condition	
Week of 10th September	No event recorded
Week of 17th September	No event recorded
Week of 24th September	One event recorded*

Note:

*The event occurred on September 24th, 2012 during excavation activity.

Conclusion

Between September 10, 2012 and September 28, 2012 when the excavation activities occurred at Equity Former MGP Site, Brooklyn, New York, no exceedance of potential structural damage warning threshold was recorded.



Figure 1 - Vibration Monitoring Location



Figure 2 – Vibration Monitor Setup



Figure 2 – Vibration Monitoring Location



Figure 3 – Vibration Monitoring Location

Appendix D

Daily Activity Reports

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 10 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Hertz, Excavator

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0800	Site orientation for laborers and operators prior to having new hire physicals
0800	0900	Continuation of site orientation, Jennifer P. onsite going over camp with Jeff D.
0900	1000	Donald Campbell onsite, discussed site activities and anticipated site work.
1000	1100	Excavator onsite, delivered by hertz.
1100	1200	Shail P onsite going over excavation areas and wells inside excavation areas.
1200	1245	Break for lunch
1245	1300	Shail P.and Jennifer P. offsite for the day
1300	1400	Site orientation with EQ and trying to decide flow of work and locations for all site stuff onsite.
1400	1500	Security onsite to go over scope with EQ and watch over site for the day.
1500	1530	AECOM and EQ offsite for the day.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	
4	0	3	1	

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier

Report Signature	Date

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 11 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Spray foam equipment and spray foam, high vis fence, hose, caution barrels

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0800	Laborers and operators onsite going over health and safety items
0800	0900	Fred from Boart Longyear onsite to move Vac truck to Greenpoint facility, Informed AECOM that metal rods could be scrapped.
0900	1000	Laborers scraped metal rods
1000	1100	Spray foam and Spray Foam pump onsite
1100	1145	Hank from DEC and Donald C. From National grid onsite to discuss work progress and future schedule.
1145	1230	Break for lunch
1230	1330	EQ working on receiving supplies and scheduling delivery
1330	1430	Shail P onsite and Hank from DEC, further discussion of site activities and how best to deliver the information to project team.
1430	1500	AECOM offsite for the day, EQ awaiting a PID delivery and security to arrive.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	DEC
4	0	3	1	1

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier

Report Signature	Date

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 12 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 80's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Front end loader/forks, Hammer attachment, Compressor, 10,000 gallon frac tank

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0730	AECOM and EQ onsite performing tailgate health and Safety, going over spray foam MS/DS
0730	0800	Marking out spaces on Fed-Ex property, drum company onsite to pick up 10 drums
0800	0815	Drums picked up, Jenn P. offsite, High visibility fence being installed along Rewe St. property.
0815	0900	Baker tank onsite, site prep, moving frac tank into location for project.
0900	0915	Hank from NY DEC onsite
0915	1000	Hank offsite, front end loader delivered, moving site debris to prep for excavation.
1000	1030	Asked permission from Ray at Cooper Tank to fill water buffalo with water from his hose, he said it was fine.
1030	1100	Weather station onsite, delivered by US Environmental
1100	1200	moving driller debris out of work zones and stockpiling out of the way.
1200	1230	Break for lunch
1230	1300	Continue moving driller debris, testing spray foam system, everything works great.
1300	1330	Weekly project conference call, See meeting minutes email
1330	1400	Spoke with Dave on signs and he was directed to stick to specifications for language.
1400	1500	EQ cleaned up work areas and parked machines, offsite at 1500.
1500	1600	Brian from AECOM onsite moving solar panel for vibration monitoring, AECOM offsite at 1600

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
3	0	7	1	1

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier

Report Signature	Date



Spray foam on ground after test run.



Driller supplies moved and concrete blocks.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 13 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 80's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Poly Liner, filter fabric for excavation bottom and fence/decon pad, Truck Liners, Security Shed, 12 mil covers

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0730	AECOM & EQ onsite, performed health and safety tailgate meeting on dehydration
0730	0800	Moving facilities to the side of storage container
0800	0900	Incident involving two EQ union employees in parking area with personal cars, Donald C. Onsite
0900	0930	Working on site prep and excepting deliveries, Donald C offsite
0930	1000	Decon liner onsite from Fed EX
1000	1100	Surveyor onsite and guard shack.
1100	1200	Jenn and Jeff working on camp equipment logging issues.
1200	1230	Break for lunch, Pine will deliver new equipment that will log data and will be able to be downloaded from.
1230	1300	Jenn P offsite
1300	1330	Site prep, awaiting filter fabric
1330	1430	Truck liners onsite, grubbing along fence for fabric install, fence to the east side of the property is leaning into Fed Ex property
		Fence condition was pre-existing prior to grubbing along it.
1430	1515	Shail P onsite
1515	1530	EQ offsite, pine delivering new dusttrak equipment
1530		Pine and (No Suggestions) offsite, security onsite.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: Surveyors onsite installing reference points to mark out excavation areas

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
4	2	7	1	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier

Report Signature	Date



Wind direction station installed on corner of fence.



Fence along fed ex property with Pre-existing damage.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 14 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Truck liners

TIME SUMMARY

Time From	Time To	Description of Activities
0700	0900	AECOM & EQ onsite, health and safety tailgate performed on operator communication and signal work.
		EQ laborers putting fabric up on the fence.
		digging in decon pad area to lay in fabric and liner.
0900	1000	Continue working on decon pad digging and picking out rocks.
1000	1100	Laying down fabric on set up decon pad dirt berms.
1100	1130	Started backfilling around decon pad.
1200	1230	Break for lunch
1230	1250	Started digging area A and stockpiling on Area C
1250	1330	Digging Area A down to 7'-3" and water started percolating out with a sheen on it, some strong odors
1330	1400	Excavation A is partially dug and soil is stockpiled on Area C and covered with plasitc tarp.
1400	1430	Excavation is surrounded with orange high vis fence, Donald C onsite to sign manifests and see the progress.
1430	1550	Donald C offsite and AECOM offsite.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Soil from Area A is stockpiled on Area C, soil is covered and poly is anchored with sand bags.

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
3	0	7	1	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier

Report Signature	Date



Excavation A Partially dug with PDI-5 in the photo.



Decon partially installed, soil needs to be pushed in and compacted around berm.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 17 / 12		60137362
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Brooklyn, NY	AECOM

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

70s and Sunny

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Stckpile of soils from Area A was on-site and was loaded in the truck in the morning. Small stockpiles were created from the soils excavated from Areas A & B

and placed in Area C before loading on the trucks

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

No new material was brought on-site, crushed fill previously brought on-site was stockpiled along the edge of the sidewall between Areas B and C

TIME SUMMARY

Time From	Time To	Description of Activities
0700		Calibrated Dustmeter and PIDs
0715		Set up CAMP stations, met Contractor (EQ), inspected site
0730		Dust control in progress by spraying water
0815		Don from National Grid was on-site, inspected crushed fill for wood, glass, plastic etc. in addition to concrete blocks. Material from Area A stockpile was loaded in the first truck (AP 701B), the truck was cleaned with a broom on decon pad
0830		2nd truck(AN 981W) was lined and filled with stockpiled soils, wrapped and cleaned before going off-site
0845		3rd truck (AN 383M) was lined and filled with soils from Area C
0900		Short liners were ordered instead of 10 foot liners. EQ was asked to get wider liners. Truck 4 and 5 were loadedfrom Area C
1000		Filling tank for foaming
1030		break
1100		Foaming excavation Area C, started excavating Area A, tarp was placed on the ground, and the soil was stockpiled on Area C
1130		Groundwater was encountered at approximately 10 feet bgs, foamed Area A and stockpile
1200		Monitoring well in Area A was destroyed. Truck AP 701B was again on-site
1230		6th truck was lined and filled
1300		6th truck was wrapped and cleaned before it went off-site.
1330		7th truck was lined
1345		7th truck was filled with soils from Area C, black coal ask type material was encountered in Area C
1400		7th truck was wrapped and cleaned, 8th truck was lined (AN 981N), excavation was foamed
1430		8th truck was loaded, wrapped and cleaned; water was sprayed on site for dust control; 9th truck was also loaded
1500		10th truck was lined; Other side of Area A was excavated, Area C was foamed, tarp was placed below trucks
1530		Excavation of Area A was completed and foamed, started excavation of Area B
1600		DEC asked to chase MGP contamination if further residues are encountered in Area B, surveyor surveyed Area A, safety fence was installed around open excavations and was foamed

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: Surveyed bottom, top, and slope elevations in Area A

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition:

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Stockpiles were lined and the the liner was secured

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	
4	2	7	1	

Traveling Record

Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	Reported By
				Peter Pelletier

Report Signature	Date
	9/17/2012


Cuenca Coronel
Trucking Inc.



DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 18 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Cloudy Rain, 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0730	PP and JD onsite, JD calibrating CAMP equipment, PP wend over RD notes and spoke to John from EQ about yesterday.
0730	0745	Lining first truck, AL 256S, covering decon pad to prevent water from accumulating and washing out decon pad.
0745	0750	First truck lined and setup to be loaded, fence removed from Area C and first truck will be loaded from there.
0750	0800	PID's for up and down wind not functioning properly, JD woring on fixing them.
0800	0810	Notified EQ that loading needs to wait till PID's are working.
0810	0850	Cleared to start loading first truck, PID's started working.
0850	0855	Excavating and loading from Area C.
0855	0900	Started digging area A and stockpiling on Area C
0900	0911	First truck loaded, moving to decon pad to be wrapped and cleaned off, second truck being loaded, loader moving equipment
		for EQ C-Box that is being delivered.
0911	0915	Second truck loaded
0915	0920	First truck off decon pad, covering truck with truck tarp, second loaded truck being covered with poly liner, loading third truck.
0920	0945	Sheen present on water table @~8'
0945	0958	Third truck offsite and covered properly
0958	1000	moving water buffalo to be filled from hydrant across the street.
1000	1115	Foaming Area C while waiting for trucks to make round trip.
1115	1230	Hank from NY DEC onsite, decon pad rain water containerized
1230	1250	Truck AL 256S onsite being lined for second load today
1250	1255	Donald C. onsite, dropped off more manifests
1255	1300	First truck ready to be loaded.
1300	1320	Digging in Area C and loaded first truck
1320	1335	Foamed area C between trucks, first truck being sealed up, second truck lined and backing up to be loaded.
1335	1345	second truck loaded and being tied up for offsite disposal, taking surficial soil from Area C and using as an odor block
		against south wall, foam being applied as well.
1345	1400	moving to Area B for third truck.
1400	1410	started digging Area B and loading into third truck for afternoon load out
1410	1430	Third truck loaded and NY DEC was happy with the hole being complete.
1430	1530	EQ cleaning up for the day and offsite, AECOM offsite

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris from Area C left within Area C

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
3	0	7	1	1

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
		Report Signature		Date



Excavation of Area C.



Area B bottom of excavation.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 19 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Four drums of foam.

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0720	JD, PP and EQ onsite, conducted H & S meeting, spoke about everyone's work activities performed safely
0720	0730	Lining the first truck (AL 616K), shedding water off decon pad cover
0730	0759	Two more trucks onsite, truck 2 (AM 818N)
0759	0807	First truck lined up to be loaded out of area C
0807	0825	First truck loaded and on decon pad to be sealed and cleaned
0825	0829	First truck offsite covered and clean
0829	0843	Second truck being loaded, Third truck being lined, Hank from NYDEC onsite
0843	0851	Second truck loaded and being sealed for transport
0851	0906	Lining third truck (AL 256S)
0906	0917	Started digging area C and loading into third truck, used some fill onsite to stabilize ramp into decon pad.
0917	0933	Third truck is loaded and on decon pad to be sealed.
0933	0945	Third truck covered and pulling out of decon pad
0945	1200	Trucks offsite, awaiting more trucks
1200	1230	Break for lunch
1230	1300	prepping for trucks
1300	1315	fifth truck being loaded, sixth truck is getting lined (AL256S)
1315	1340	fourth truck (AL 616K)lined and being loaded, fifth truck being lined.
1340	1350	Truck AL 256S onsite being lined for second load today
1350	1355	fifth truck b
1355	1410	fourth truck leaving site
1410	1415	Fifth truck offsite, sixth truck being loaded
1415	1443	Sixth truck loaded, moving to decon pad to be sealed up
1443	1500	Seventh truck lined and ready to be loaded, moving large concrete debris out of Area C on poly to be broken up
1500	1515	Seventh truck loaded, soil has debris and tar balls mixed in.
1515	1545	EQ placing high vis fence around Area C and foaming excavation, EQ and AECOM offsite.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris moved to Poly out of Area C

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
2	0	7	1	1

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
		Report Signature		Date
				9/19/2012



Excavation Area C looking to the South sidewall.



Area C looking at the North sidewall.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 20 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Trash roll-off

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0730	AECOM and EQ onsite, performed tailgate H&S meeting on safe working habits
0730	0735	Truck 1 being lined AL 818N
0735	0745	Truck 1 being loaded
0745	0800	Truck 1 on decon pad being sealed, Truck 2 being loaded AL 961P, Truck 3 is being lined
0800	0805	Truck 1 offsite, tar appears to continue in the south easterly direction, truck 2 offsite
0805	0814	Truck 3 being loaded, truck 4 is being lined
0814	0830	Started loading truck 4 and sealing truck 3, Area C is expanding to the south
0830	0835	Truck 4 loaded and on decon pad for sealing, foaming excavation
0835	1030	Cleaning up work areas for next round of trucks
1030	1050	Sean Liddy onsite, spoke to EQ
1050	1100	fifth truck onsite and being lined
1100	1118	Shail onsite, loading fifth truck
1118	1130	Truck 5 on decon pad to wrap truck for shipping, tar is still in east side wall for last 15' heading south
1130	1145	Donald and Terri onsite from Grid, sixth truck onsite being lined
1145	1205	4 trucks onsite, loading sixth truck AM 818N
1205	1223	Loading seventh truck AL 961P, Terri offsite.
1223	1226	Sixth truck offsite, eighth truck being loaded AL 256S
1226	1240	Eighth truck loaded, ninth truck being loaded
1240	1259	ninth truck loaded, Mike Gardner onsite
1259	1430	Ninth truck offsite, Donald offsite, lab onsite to collect two backfill samples
1430	1445	tenth truck onsite being loaded, fabric being placed on remaining fence, Shail offsite
1445	1530	AECOM and EQ offsite, security onsite, excavations secure and foam applied to Area C.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris moved to Poly out of Area C

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
4	0	8	2	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
		Report Signature		Date
				9/20/2012



Excavation C along the fence line.



Area C looking at Southeast corner.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 21 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0730	AECOM and EQ onsite, performed tailgate H&S meeting performed
0730	0740	Truck 1 lined AL 265S and ready to be loaded.
0740	0755	Loading first truck
0755	0805	first truck offsite, second truck AK 201S being loaded, Third truck being lined, spoke to sig about parking spaces and hope to
		get them back mid next week.
0805	0810	Second truck loaded and being sealed for transport
0810	0812	Third truck lined AL 718E
0812	0821	Third truck being loaded, fourth truck being lined AL 616K, second truck offsite
0821	0828	Third truck loaded
0828	0835	Truck 4 lined and being loaded, truck five being lined, truck 3 offsite
0835	0849	Truck 4 loaded and being sealed
0849	0902	Truck 4 offsite, truck 5 being loaded
0902	0910	Truck 5 sealed for disposal, moving blocks and drums to extend excavation to the south
0910	1000	Truck 5 offsite
1000	1025	Truck 6 onsite AN 582M being lined
1025	1039	loading 6th truck
1039	1052	truck 6 loaded and being sealed
1052	1108	Truck 7 onsite AL265S being lined
1108	1121	truck 7 being loaded, truck 8 being lined
1121	1140	Truck 7 loaded and on decon pad, truck 8 being loaded AK201S, truck 9 being lined
1140	1150	Truck 8 loaded and on decon pad, truck 9 being loaded
1150	1205	Truck 8 offsite, truck 10 onsite to be lined
1205	1310	Truck 9 loaded and sealed for transport, truck 10 lined AL616K, truck 11 onsite AP701B, hertz onsite fixing excavator
1310	1350	Donald C onsite
1350	1402	truck 10 loaded and being sealed, Truck 11 being loaded, Donald C offsite, truck 12 lined, truck 11 loaded
1402	1435	Started moving drums onto pallets by Area B, drums covered with Poly
1435	1530	AECOM and EQ offsite

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris moved to Poly out of Area C, tires on poly, drums on pallets with poly cover

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
2	0	6	1	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
Report Signature				**Date**
				9/21/2012



Excavation C with trash in the southwest corner



Drums from Southeast corner on pallets and covered with poly

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 24 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Truck Liners

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0715	AECOM and EQ onsite, performed tailgate H&S meeting performed, Jeff set up camp stations
0715	0730	Preparing site for work Area A looks okay, B has a spot where NAPL may seep in, C is excavated further than originally marked
		but the area where tar was present seems well formed/excavated. The GW table seems to be at 7-7.5 ft.
0730	0745	1st truck onsite, 2nd & 3rd lined up at entrance. John said that the big liners are still coming (may be today and not sure about
		backfill, Mike G. was onsite last week & didn't approve fill that was brought on-site. Two material were sampled last week.
0745	0800	Truck 1 was lined for loading out of Area D AP701B poly was placed on ground where truck will be loaded, puddle of water &
		mud to right of the gate. Not related to site
0800	0810	Truck 1 is being loaded out of Area D. Truck 2 is being lined AL-718E
0810	0820	2nd truck is now being loaded out of Area D. Some staining at the edge of the excavation
0820	0825	2nd Truck loaded & 3rd truck is in place. The stain didn't extend and in the excavation looked ok
0825	0830	The tar was swept & 3rd truck is being loaded AK597T
0830	0835	Truck 2 is being covered. Truck 4 is being lined AN983L, a tire, a brick, block and another sand block was encountered &
		separated from soils.
0835	0840	Truck 2 is bing cleaned. Done loading truck 3(non-MGP)
0840	0845	Truck 4 is being loaded out of Area D. Truck 3 is being wrapped.
0845	0850	Truck 3 is being cleaned
0850	0855	Truck 3 is off site. Truck 4 is loaded & Truck 5 is lined AP139A, Chris of EQ is requesting dust control measures.
0855	1145	6th Truck onsite being lined AL256S, GW in area D encountered @7.5ft, odor coming from excavation.
1145	1150	Measured impacted area from western wall w/tape measure, 7th truck is being loaded with material(impacted) from area D
		AP701B
1150	1200	8th truck is lined & is being loaded from area D. AL718E, truck 7 is wrapped, John was asked to foam area C again, there is a
		well in Area D (excavating around it)
1200	1205	7th truck cleaned & sent off-site received manifest(blank), 9th truck is being loaded AK597T, Using rope to flip top tarp over
		truck, active dust control, gave manifest to Chris.
1205	1215	Impacts extenc to 30ft on north, encountered another drum with concrete bottom at about 35', more impacts at about 35' from
		the western wall - 4-5 ft bgs.
1215	1225	9th truck is loaded & being wrapped
1225	1230	10th truck is being loaded with area D
1230	1235	10th truck full & on decon pad decided to dig further North at about 30 feet from western edge
1235	1240	11th truck was loaded AN983L
1240	1245	12th truck is being filled and the 35 feet Northern edge is being dug further. Black solid wast that smells like tar mixed with oil
		(can molt) Shail Pandya discussed over excavation w/ Donald Campbell & he approved it.
1245	1255	12th truck was filled, Northern edge - MGP impacts (Melting when sun light hits it)
1255	1300	Foaming excavation D, Impacts extend further North at 35'
1300	1320	13th truck on-site being loaded from extended D AL256S
1320	1400	No activities onsite
1400	1430	Lunch Break
1430	1500	Installing safety fence, Foamed area C & repaired fence. A structure was exposed in Northern wall of excavation D
1500	1530	Dave (PM of EQ) onsite. John asked about excavation, they may have to dig further at area C, B and D. Save wells, the drums
		do not belong to property owner, EQ is concerned about disposing debris(surface) & drums. They will dispose of tires &
		concrete encountered during excavation. Big concrete will be taken by the property owner.
1530		EQ and AECOM offsite.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris moved to Poly out of Area C, tires on poly, drums on pallets with poly cover

ON-SITE PERSONNEL				
AECOM	Surveyor	EQ	National Grid	NY DEC
3	0	6	1	0

Traveling Record				
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	Reported By
				Peter Pelletier
Report Signature				Date
				9/24/2012

Excavation D digging toward the west.

Area C excavation, soils removed in southwest corner along the fence.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 25 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Truck Liners

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0740	AECOM and EQ onsite, performed tailgate H&S meeting performed
0740	0755	Truck 1 onsite (AL961P), started loading
0755	0800	Truck 1 loaded, second truck being loaded AN 983L
0800	0820	Truck 2 loaded, third truck being loaded AK 597T
0820	0834	Third truck loaded, fourth truck being loaded, fifth truck being lined AL 616K
0834	0839	fourth truck loaded, fifth truck lined and ready to be loaded AN 581J
0839	0853	fourth truck offsite
0853	0913	fifth truck loaded, sixth truck lined and being loaded AL 265S
0913	0950	sixth truck loaded
0950	1050	Dave C. from EQ onsite
1050	1100	seventh truck onsite AL 761P
1100	1128	seventh truck being loaded, surveyor onsite, survey of Area C, B and D performed
1128	1156	spoke to Pete C about project and potential use of cooper tank fill, truck 8 onsite being lined.
1156	1159	Truck 8 loaded, removed some soil from Area C at the south corner
1159	1330	Truck 9 being loaded, break for lunch
1330	1400	Area B soil inside wall removed, concrete laid out to remove tomorrow after breaking it up
1400	1430	Mike G approved stone for backfill to 4' below grade, Cooper tank backfill has been rejected for backfilling.
1430	1500	Liners for trucks onsite
1500	1530	AECOM and EQ offsite

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

Concrete debris moved to Poly out of Area C, tires on poly, drums on pallets with poly cover

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
2	2	6	0	0
Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
Report Signature				Date
				9/25/2012



Excavation D digging toward the west.



Area C excavation, soils removed in southwest corner along the fence.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 26 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Partly sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

Five loads of Backfill ~125 tons

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0710	AECOM and EQ onsite, performed tailgate H&S meeting performed, 4 loads of stone delivered
0710	0740	Moving orange demarcation fabric for excavation areas
0740	0757	Area B backfilled to 4'
0757	0815	Area A backfilled to 4'
0815	0845	Fifth load of backfill onsite
0845	1155	Area D partially demarcated and being backfilled, Hertz onsite to remove bucket and put on demo hammer attachment
		to break up concrete for loading out.
1155	1248	Truck 1 onsite to take a load of concrete and soil from Area D for disposal AL 265S, Hertz offsite, bucket back on excavator
1248	1300	Truck 1 covered and offsite
1300	1330	Conducted weekly meeting, see meeting notes
1330	1430	Placing in liners in excavation areas to prepare for trucks of stones
1430	1445	Donald C. onsite
1445	1530	Donald C offsite no trucks of fill for the rest of the day, belt broke at stone quarry, 10 loads coming first thing Thursday AM
		EQ will get stone needed to complete job by Friiday
1530		AECOM and EQ offsite

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
2	0	7	1	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
		Report Signature		Date
				9/26/2012



Backfill material delivered



Demarcation layer installed in area B about to be backfilled.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 27 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Partly sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

25 loads of backfill

TIME SUMMARY

Time		Description of Activities
From	To	
0700	0725	AECOM & EQ onsite, 15 loads of stone onsite and dumped
		EQ rack truck onsite to take pallets of foam drums, plastic tarps, and orange drums
0725	0740	16th load of stone delivered and dumped in Area D
0740	0806	Lining truck for final load of soil to be removed
0806	0835	Area D completed for excavation, moving to area C to complete along fence line, Jenn P onsite to clean out construction trailer
0835	0945	Truck loaded and being sealed for transportation, stone being backfilled in Area C & D
0945	1100	Moving stone in Area C to fill excavation, laborers cleaning up work areas and packing EQ trailer, Kristen onsite
1100	1200	Cleaning up site and backing trucks loads of stone into excavation areas, Shail onsite
1200	1300	Break for lunch
1300	1400	Continue cleaning up work areas and dumping trucks of stone
1400	1430	Shail, Kristen and Jenn offsite
1430	1530	Cleaning up work areas and placing high vis fence up around all the excavations
1530		AECOM and EQ offsite

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
4	0	7	0	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
		Report Signature		Date
				9/27/2012



Area C partially backfilled



Area D backfilled and high vis fence up.

DAILY ACTIVITY REPORT

AECOM

DATE	JOB NO.	PROJECT
09 / 28 / 12	60137362	Equity - National Grid
CLIENT	**LOCATION**	**CONTRACTOR**
National Grid	Greenpoint, Brooklyn, New York	EQ - Northeast

Document following activities in addition to items specified in this form: **decon activities prior to demobilization ; **disruption/damages to utilities/structures** ; **structures that are permanently removed or removed and replaced** ; **any changes to design** ; **dewatering activities** ; **air/dust monitoring ****

WEATHER CONDITIONS

Partly sunny 70's

ACCOUNTING OF WASTES STORED/STOCKPILED ON-SITE

Excavation Debris

MATERIALS BROUGHT ON SITE (NAME OF SUPPLIER, TYPE, VOLUME)

25 loads of backfill

TIME SUMMARY

Time		Description of Activities
From	To	
0700	1130	AECOM and EQ onsite, final clean up of work areas and equipment demobilization, Baker tank offsite
		Moving driller debris to dumpster and placing pallets of material behind the Mr. John and cover with poly.
1130	1300	Water buffalo picked up, Jeff D. offsite to return equipment and paper work to Jenn P at the Manhattan office
1300	1430	US Environmental onsite to pick up rental equipment, air compressor picked up by Hertz.
1430		AECOM and EQ offsite for the day.

SUMMARY OF DAILY ACTIVITIES

Spills, Leaks, Discharges: None

Changes to Design: None

Survey activities: None

DAILY AND POST RAINFALL EH&S CONTROLS INSPECTION: (VERIFY INTEGRITY OF CONTROLS. NOTIFY ENGINEER OF DEFICIENCIES. IMMEDIATELY).

Signs of Erosion: None

Surface/Vegetative Cover Condition: None

Items for Repair: None

DAILY STOCKPILE INSPECTION: (VERIFY INTEGRITY OF STOCKPILE LINER AND COVER SYSTEM. CORRECT DEFICIENCIES IMMEDIATELY)

ON-SITE PERSONNEL

AECOM	Surveyor	EQ	National Grid	NY DEC
2	0	2	0	0

Traveling Record				Reported By
Vehicle I.D.	Starting Odometer	Ending Odometer	Total Miles	
				Peter Pelletier
Report Signature				Date
				9/28/2012



Driller material behind Mr. John.



Concrete blocks moved and stacked.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/10/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Monday
		REPORT # : 1	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	8.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
8					
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Mobilize to site, kick off meeting and site introduction of all employees.

HASP review and affidavit signed.

New hire packages filled out.

Entrance physicals ant Concentra in Elizabeth NJ. For all new employees.

Received JD-225-CLC Excavator from Hertz.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/10/2012**

John Akkerman

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EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/11/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Tuesday
		REPORT # : 2	

	WIND AND DIRECTION: See Report		
AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	8.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
8	Kurt Oosterman	Asst Site Supervisor	EQNE	Asst Site Supervisor	8.0
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24					

DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

DRC utility locators onsite.

Received truck liners one pallet.

Received Rusmar Foam Machine and 3 drums of long duration foam.

Received water buffalo trailer from Hertz.

Received 8 sunshield tarps.

DEC onsite.

Perfect Point Survey onsite for data collection.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/12/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Wednesday
		REPORT # : 3	

	WIND AND DIRECTION: See Report		
AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	8.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Received 10'000 gallon frac tank from Baker Tank.

Received 180 air compressor and 3 hoses from Hertz.

Received JD-544-K Wheel Loader and forks from Hertz.

Received concrete breaker from Hertz.

Installation of site signs.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

-

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/13/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Thursday
		REPORT # : 4	

	WIND AND DIRECTION: See Report		
AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	8.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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23					
24					

DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Received 1 roll of filter fabric and 1 roll of orange demarcation fabric.

Received decon pad.

Received guard shack from Williams Scotsman.

Installation of high vis fencing.

Perfect Point Survey onsite for excavation layout.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

-

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/13/2012**

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/14/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Friday
		REPORT # : 5	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	8.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Installation of filter fabric on fence as sound and dust barier.

Installation of decon pad.

Excavation of area a to 90% and stockpile on area c and cover for weekend.

Dust control.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

-

-

INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

-

-

SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/14/2012**

John Akkerman

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/17/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Monday
		REPORT # : 6	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	9.0
6	Wesley Hernandez	Laborer	EQNE	Labor	9.0
7	Warren Ramdin	Laborer	EQNE	Labor	9.0
8					
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 10 - loads

Dust control.

Foaming of excavation areas ongoing.

Received now site sign and installed.

Complete excavation of area a and do final data collection.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/17/2012**

John Akkerman

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EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/18/2012
	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Tuesday
		REPORT # : 7	

	WIND AND DIRECTION: See Report		
AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Heavy Rain	Heavy Rain		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	8.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	Off
3	Joseph Murry	Operator	EQNE	Excavator Operator	8.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	8.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
8	Justin Prodniki	Health and Safety	EQNE	Health and Safety	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 6 - loads

Dust control. Not needed

Foaming of excavation areas ongoing.

Complete excavation area b

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/19/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Wednesday
		REPORT # : 8	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 7 - loads

Dust control. Not needed

Foaming of excavation areas ongoing.

Received 1 roll of fabric from IWT Cargo guard.

Received 4 drums of foam from Rusmar.

Received 3 cases of duct tape from Aramsco.

Excavation area C is 50 % complete.

Received EQ sea container. (Site Tools)

PG 1 of 2

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/20/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Thursday
		REPORT # : 9	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 10 - loads

Dust control. Not needed

Foaming of excavation areas ongoing.

Received 1 roll of fabric from IWT Cargo guard.

Received 4 drums of foam from Rusmar.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/21/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Friday
		REPORT # : 10	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 12 - loads

Dust control. Not needed

Foaming of excavation areas ongoing.

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/21/2012**

John Akkerman

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/24/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Monday
		REPORT # : 11	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 12 - loads

Dust control. Not needed

Foaming of excavation areas ongoing.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/25/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Tuesday
		REPORT # : 12	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 9 - loads

Dust control.

Foaming of excavation areas ongoing.

Received 2 pallets of 10' sidewall truck liners.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/26/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Wednesday
		REPORT # : 13	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 1 - load.

Dust control.

Foaming of excavation areas ongoing.

Received, 5 loads of backfill stone from Armored. 142.7 tons.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR
1-2 1/2" Clean Stone	5 - Loads	142.7 tons	tons	AJ Nesti

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/27/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Thursday
		REPORT # : 14	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Clear	Clear		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

Loadout to Bayshore Recycling. 1 - load.

Dust control.

Foaming of excavation areas ongoing.

Received, 28 loads of backfill stone from Armored. 798.05 tons.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12		Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12		Yes		Yes
Rusmar Foam Machine	11-Sep-12		Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12		Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12		Yes		Yes
Cencrete Breaker	12-Sep-12		Yes		Yes
EQNE Connex Box	19-Sep-12		Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR
1-2 1/2" Clean Stone	28 - Loads	940.75 tons	tons	AJ Nesti

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

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INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

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185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

EQNE PROJECT #	PROJECT TITLE & LOCATION:	REPORT DATE:	9/28/2012
H-83200	Equity Works, National Grid. 245 Maspeth Ave, Brooklyn, Kings County, New York		Friday
		REPORT # : 15	
	WIND AND DIRECTION: See Report		

AM WEATHER:	PM WEATHER:	PRECIPITATION (inches) :	MAX TEMP:	MIN. TEMP:
Rain	Rain		88	75

	NAME	JOB TITLE	EMPLOYER	WORK DESCRIPTION	HOURS ON SITE
1	John Akkerman	Site Supervisor	EQNE	Site Supervisor	9.0
2	Chris Brady	Health and Safety	EQNE	Health and Safety	9.0
3	Joseph Murry	Operator	EQNE	Excavator Operator	9.0
4	Joseph Argo	Operator	EQNE	Wheel Loader Operator	9.0
5	Mark Pulido	Laborer	EQNE	Labor	8.0
6	Wesley Hernandez	Laborer	EQNE	Labor	8.0
7	Warren Ramdin	Laborer	EQNE	Labor	8.0
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22					
23					
24					

DESCRIPTION OF DAILY ACTIVITIES & WORK AREAS

Kick off mtg,

All 5 union employees taking there exit physicals at Concentra in Elizabeth NJ.

Dust control.

Foaming of excavation areas ongoing.

Foam Machine Demobed.

Called off rent all equipment.

Air compressor picked up. From Hertz

Water Buffalo picked up from Sunbelt.

EQ NORTHEAST, INC.

185 Industrial Road - Wrentham, MA 02093 - (508) 384-6151

DAILY REPORT

JOB SAFETY

SAFETY MEETING TOPIC:

Driving Safety

VIOLATIONS OBSERVED:

EQUIPMENT

EQUIPMENT DESCRIPTION	ARRIVAL DATE	HOURS			SAFETY CHECK Y/N
		Off Rent Date	USED TODAY	IDLE TODAY	
JD-225-CLC Excavator	10-Sep-12	9/9/2012	Yes		Yes
500 Gallon Water Buffalo Trailer	11-Sep-12	9/9/2012	Yes		Yes
Rusmar Foam Machine	11-Sep-12	9/9/2012	Yes		Yes
10"000 Gallon Frac Tank	12-Sep-12	9/9/2012	Yes		Yes
JD-544-K Wheel Loader- Forks	12-Sep-12	9/9/2012	Yes		Yes
Cencrete Breaker	12-Sep-12	9/9/2012	Yes		Yes
EQNE Connex Box	19-Sep-12	9-Sep	Yes		Yes

MATERIALS RECEIVED

MATERIAL DESCRIPTION	QUANTITY	QUANTITY TO DATE	UNIT	VENDOR
1-2 1/2" Clean Stone	28 - Loads	940.75 tons	tons	AJ Nesti

WASTE HANDLING, PROCESSING AND DISPOSAL DATA

MATERIAL	QUANTITY TODAY	QUANTITY TO DATE	COMMENTS

AIR MONITORING DISCUSSION

-

-

INSTRUCTIONS RECEIVED AND/OR OTHER COMMENTS

-

-

SIGNATURE OF EQ NORTHEAST REPRESENTATIVE **9/28/2012**

John Akkerman

The electronic version of this document is the controlled version.
Each user is responcible for ensuring that any document being used is the current version.

Appendix E

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072655

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NJ
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC #35 AP7016
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	24000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

001

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
L		9	17	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Tamara		9	17	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072656

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ 09/14/2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 9/14/12

6. Transporter 1 Company Name CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	4/4/000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (5)MGP COAL TAR CONTAMINATED SOIL

002

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Axiol Almaguer — Signature: [signature] — Month 9 / Day 14 / Year 12

Transporter 2 Printed/Typed Name: — Signature: — Month / Day / Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072657

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EE 8-14-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
#28 ANSEM
003

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 9 Day 17 Year [illegible]

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeffrey Coral — Signature: [illegible] — Month 9 Day 17 Year 12

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072658

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

004

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald J Campbell
Signature: [signature]
Month 9 Day 17 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature: [signature]
Month 9 Day 17 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

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GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072659

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ SC 7-19
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 SC 7-14-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

005

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month 9 Day 17 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Palino — Signature: [signature] — Month 9 Day 17 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072660

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ QE 7-14-12
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 QE 7-14-12

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC AF701B #35
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
APN-PSM-2712-590
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

006

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: LENARD P CAMPBELL
Signature: Lenard P Campbell
Month: 9 Day: 17 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Nelson Tamay
Signature: NEST
Month: 9 Day: 17 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072661

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ BK / 11-
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 7-14-12

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC -Tuv-31-ANYKIW
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

007 PSM 2712-590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature
Month 9 Day 17 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: H. M. Alvarez
Signature
Month 9 Day 14 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072662

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number
NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM 2712-590
008

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL | Signature | Month: 9 | Day: 17 | Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFFREY CANAL | Signature | Month: 9 | Day: 17 | Year: 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company www.eqonline.com 1-800-592-5489

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072663

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
2712-590
009

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONNA P CAMPBELL
Signature:
Month: 9 Day: 17 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072664

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~ SE 7-14-12
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 SE 7-14-12

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number
NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
010 BSM 2712-590

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month: 9 Day: 17 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.: NL 250 SE

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JIM PADINO
Signature:
Month: 9 Day: 11 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072665

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC. # 21 115 AL 2565
U.S. EPA ID Number NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	1	DT	44,000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

AL 2565 (21)

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month 9 Day 18 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Ratino
Signature:
Month 9 Day 18 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072666

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EC 10-17-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 983-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 EC 7/17/12

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC # 18 NJAL 6166 — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	1	DT	4,220 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Lozano — Signature — Month: 09 / Day: 12 / Year: 12

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

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EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072667

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~ EC 1-17-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EC 9-17-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC # 24 NJ AM-618N
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	1	DT	4,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: DONALD P. CAMPBELL
Signature: Donald P. Campbell
Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Cuenca Coronel - Wilson Apolo
Signature: Wilson Apolo
Month: 9 Day: 18 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072668

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 EC 9-17-12
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EC 9-17-12

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. #21 NJ AL2565
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	1	DT	44,000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

AL 2565 (71)

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: DONALD P. CAMPBELL
Signature: Donald P. Campbell
Month: 9 Day: 18 Year: 12

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JIM PATINO
Signature:
Month: 9 Day: 18 Year: 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072669

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EC 9-17-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 983-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE EC 9-17-2012
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC # 18 NJ AL 6166 — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None None	1	DT	44,000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P. CAMPBELL — Signature: Donald P Campbell — Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Lozano — Signature — Month: 09 Day: 18 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072670

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ CE 9-17-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 CE 9-17-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. #24 NJ AM818N
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	1	DT	44,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: DONALD P. CAMPBELL
Signature: Donald P. Campbell
Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wilson Apolo
Signature:
Month Day Year: 9 18 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072672

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 C 9-17-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 C 9-17-2012

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

B-M 7912 - 546

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL	Donald P Campbell	1	19	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072673

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 983-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM 2712-590

021

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 9 Day: 17 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILSON ARIAS
Signature:
Month: 9 Day: 17 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072674

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 EC 9-17-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 EC 9-17-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

2712-098

022

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month 9 Day 19 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month 9 Day 19 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072675

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ C 1-14-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 C 1-14-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

017 BSM 2712-590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DANIEL P CAMPOLO
Signature:
Month: 9 Day: 19 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name:
Signature:
Month: Day: Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072676

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11211 SC 08-17 2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 SC 08-17 2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil. Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

018 BSM 2712-590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month 9 Day 19 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wilson Apolo — Signature: [signature] — Month 9 Day 19 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072677

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
EC 9-17-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211
EC 05-17-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None None	001	DT	4000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
2712-590
019
AL 2505

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 9 Day: 19 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PHILIP PATINO
Signature:
Month: 9 Day: 19 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072678

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC 735 AP 701B
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL BSM-271-590
023

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD CAMPBELL
Signature:
Month: 9 Day: 14 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFFREY CORAL
Signature:
Month: 9 Day: 19 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072671

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EE 19-17-12
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EE 9-17-12

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM 2712-590

024

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P. CAMPBELL — Signature: Donald P. Campbell — Month 9 Day 20 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: W. Ron Apolo — Signature: [signature] — Month 9 Day 20 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072679

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None None	001	DT	40,00 537	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (5)MGP COAL TAR CONTAMINATED SOIL
DSM 2712 - 540
165

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD F. CAMPBELL	Donald F Campbell	7	20	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
TERRY HOLLIS	Terry	4	30	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072680

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EE 5/18/2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 EE 5/18/2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	440 00 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

DSH. 7712 - 590

026

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 7 Day: 20 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Cuenca
Signature:
Month: 7 Day: 20 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072681

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ C 09-18-12
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 C 09 18 2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44.00 CY	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

327 12712-590 1.200 = 31

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DAVID P CAMPBELL
Signature: David P Campbell
Month: 1 Day: 20 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072682

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453
EC 9-18-2012

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211
EC 9-18-2012

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC #35 AP7018
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM 2712.590
028

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD F CAMPBELL
Signature:
Month: 9 Day: 20 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFFREY COPA
Signature:
Month: 9 Day: 20 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072683

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EC 09-18-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EC 9-18-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	[illegible] 65	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM 2712-590.

524

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wilson Apolo — Signature: Wilson — Month 9 Day 20 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

169-BLC-I 6 Rev. 8/06 GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072684

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
287 MASPETH AVENUE
BROOKLYN, NY 11211
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING INC #17-AL4611
U.S. EPA ID Number
NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None None	001	DT	40 TON EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
PSH-71-590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DENNIS F. CAMILLO		7	20	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
TERRY MCLAIN'D		7	20	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072685

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ GE 09 2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 GE 09 2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC.
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

037 BSM. 7712 590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
LANARD CAMPBELL		9	20	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Hamel Utono		9	20	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)		Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072686

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING INC

U.S. EPA ID Number
NON E

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000

U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT		P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Robert Gambill		9	20	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072687

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 EC 09 19 2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EC 09 19 2012

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC #35 AP701B
U.S. EPA ID Number NONE

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number NONE

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	[illegible]	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM 4712 590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: David P Campbell
Signature: [signature]
Month 9 Day 20 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature: [signature]
Month 9 Day 20 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072688

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 9-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 9-19-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	4/1/000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

034 D-M2712-2-10 AL 250

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: [signature] — Month 9 Day 21 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John Cutino — Signature: [signature] — Month 9 Day 21 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072689

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
LC 09-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 LC 09-19-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC.
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	40 001 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (5)MGP COAL TAR CONTAMINATED SOIL

035 BSM2712-590 AK2015

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month: 9 Day: 21 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~Cuenca Coronel~~ Andrade
Signature: Nelson Andrade
Month: 9 Day: 21 Year: 12

Transporter 2 Printed/Typed Name: ~~Andrade's Truck~~
Signature: ~~Nelson Andrade~~
Month: ~~09~~ Day: ~~21~~ Year: ~~12~~

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Signature: Month: Day: Year:

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072690

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 9-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 9 19 2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

236 BSM 212-590 H171-E.

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: [signature] — Month 9 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Wilson Cuestan — Signature: X [signature] — Month 9 Day 21 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072691

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

RSM 7718 - 5911

237

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month 9 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072692

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~
BROOKLYN, NY 11201 EC 09-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 EC 09-19-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC #35 AP701B — U.S. EPA ID Number: NONE

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NONE

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM 2712540
238

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: [signature] — Month 9 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeffrey Ernal — Signature: [signature] — Month 9 Day 21 Year 12
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072693

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 09-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 09-19-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44066 EST	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

039

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD R. CAMPBELL — Signature: [signature] — Month 9 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072694

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
287 MASPETH AVENUE
BROOKLYN, NY 11201 10-19-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 10-19-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

040 ISM2712-590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: [signature] — Month 1 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month 1 Day 21 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072695

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

241 BSI 2712-590 AK2015

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMILLE — Signature: [signature] — Month: 7 — Day: 21 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Andrade — Signature: Nelson. Andrade — Month: 09 — Day: 21 — Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072696

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	1/1 22 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
ERG BSH 2712-590 NJ7198

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DAVID P CAMPION		9	21	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
ANDRADES		9	21	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072697

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

B-M 7712 - 590

943

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: RONALD P CAMPBELL
Signature: Ronald P. Campbell
Month: 7 Day: 21 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Lopez
Signature:
Month: 7 Day: 21 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072698

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 9-20-2012
Generator's Phone: (718) 983-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 9-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC #LS AP1701B
U.S. EPA ID Number: NONE

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NONE

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None None	001	DT	44000 EST	P
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
1. MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

PSM 2 Tar 40

244

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell
Signature: [signature]
Month 9 Day 21 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeffrey [illegible]
Signature: [signature]
Month 9 Day 21 Year 12

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072699

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ 9-20-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE 9-20-2012
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. AV3874 #77
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
EQ# 2912-540
045

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month: 9 Day: 21 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month: 9 Day: 21 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072700

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44,000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM 2712590
JHP

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL		9	24	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
JEFFREY CONAL		9	24	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072701

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 LC 09 20 2012
Generator's Phone: (718) 963 5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 LC 09 20 2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	[illegible]	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

[illegible] 712 540 [illegible]

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL	Donald P Campbell	9	24	12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	1	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072702

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
09-20-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211
09-2012

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number
NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	14,200 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM - 2712590

714

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Month: 9 Day: 24 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ~~RAMON~~ GUSTAVO
Signature:
Month: 9 Day: 24 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072703

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 9-20-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 9-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC.
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None None	001	DT	[illegible] 535	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

241 BSM 2712590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: [signature] — Month: 1 — Day: 24 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name: RAUL [illegible] CWS — Signature: [signature] CWS — Month: 9 — Day: 24 — Year: 12

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072704

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11211 9-20-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 9-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NONE

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NONE

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44 000 EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
AFFO # BSM 2712540

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Donald P Campbell	[signature]	9	24	12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
X Paul Crespo	X [signature]	9	24	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072705

GENERATOR

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
287 MASPETH AVENUE
BROOKLYN, NY 11211
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

051 BSM 2712-590 AL 206-01

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 9 Day 24 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month 9 Day 24 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072706

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

9-20-2012

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

9-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING INC #25 NYTCIB
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	44 000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM-2712-090

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month: 1 Day: 19 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFFREY (CUENCA)
Signature:
Month: 1 Day: 24 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYR 000 184 184	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Waste Tracking Number 072707

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201 EC 09-20-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EC 09-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

053 M 1712 5 10 N1716F

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month 9 Day 24 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month 9 Day 24 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072708

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ DC 09-20-2012
BROOKLYN, NY 11211
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219 DC 09-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC. — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP Coal Tar Contaminated Soil. Not DOT Not RCRA Regulated, None, None, None	051	DT	[illegible] EST	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM-2712590

054

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P. Campbell — Month 9 Day 24 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GUSTAVO — Signature: [signature] — Month 9 Day 24 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072709

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~254 MASPETH AVENUE~~ CE 09-20-2012
BROOKLYN, NY 11201
Generator's Phone: (718) 963 5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 CE 09-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated None None None	001	DT	400 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
005
BSM 271270

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 7 Day: 24 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MANUEL PASTUIZACA
Signature:
Month: 7 Day: 24 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

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GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072710

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~267 MASPETH AVENUE~~
BROOKLYN, NY 11201 EE 09-20-2012
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 EE 09-20-2012

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC # [illegible]
U.S. EPA ID Number: NONE

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NONE

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	400.00 T	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
[illegible] NJ 271 [illegible]

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL	[signature]	9	24	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	9	[illegible]	[illegible]
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

169-BLC-I 6 Rev. 8/06

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com
EQ The Environmental Quality Company

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072711

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~397 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	40000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

E57

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Month: 4 — Day: 24 — Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072712

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING INC

U.S. EPA ID Number
NON E

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000

U.S. EPA ID Number
NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	037	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM 272-596
052

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL		4	25	12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
TEDDY RICHARD		4	25	12
Transporter 2 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072713

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ EE 09 20 2012
BROOKLYN, NY 11201

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE EE 09 20 2012
BROOKLYN, NY 11218

Generator's Phone: (718) 983-5453

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	440 E	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

BSM-71-590

54

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL	Donald P Campbell	1		12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
MANUEL PACHECO		9	25	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072714

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name
CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
MANOLOS AK-597T
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	20 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
BSM- 2712590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD F CAMPBELL	Donald F Campbell	1	25	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
LUSTAUO		9	25	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072715

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated None None None		DT		P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DANIEL P CAMPBELL		1	25	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NYR 000 184 184	1	(800) 535-5053	072716

5. Generator's Name and Mailing Address NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11211
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	31	DT	40,000 EST	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

2710-590

362

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: Donald P Campbell — Month 1 Day 23 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month 1 Day 23 Year 12
Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072717

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~367 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-8000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	[illegible]	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / 1 MGP COAL TAR CONTAMINATED SOIL
64
DSM 2712-S90. AL 20-D

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONNA F CAMPELLI	[signature]	7	25	17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	7	25	17
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072718

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	44000 EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
DSM 2712-598
64

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DAVID POWELL		1	25	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
TELLY HILARIO		1	25	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072719

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~ 9-23-12
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211 9-24-12

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None None	001	DT	40 CY	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL
B5112-91259
D&T

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month: 1 Day: 25 Year: 12

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MANUEL PASTRANA
Signature:
Month: 9 Day: 25 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY
17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

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GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com
The Environmental Quality Company, LP

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072720

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 983 5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC — U.S. EPA ID Number: NON E

7. Transporter 2 Company Name: MANOLO AL-597T — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None, None	001	DT	400CY EST	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (5)MGP COAL TAR CONTAMINATED SOIL

DLG DSM- 2712590

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL	Donald P Campbell	1	25	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
DUSTAVO		9	29	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072721

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address)
NATIONAL GRID FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11219

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROW'S MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil, Not DOT Not RCRA Regulated, None, None None	001	DT	14 E T	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL /(S)MGP COAL TAR CONTAMINATED SOIL

207 LM-712-390. ALAN-(P)

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature
Month: 7 Day: 26 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAN MEDINO
Signature
Month: 7 Day: 26 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

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EQ The Environmental Quality Company www.eqonline.com 1-800-592-5489

EQ The Environmental Quality Company 1-800-592-5489 www.eqonline.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYR 000 184 184	1	(800) 535-5053	072722

GENERATOR

5. Generator's Name and Mailing Address: NATIONAL GRID NY
ONE METROTECH CENTER
~~287 MASPETH AVENUE~~
BROOKLYN, NY 11201
Generator's Phone: (718) 963-5453

Generator's Site Address (if different than mailing address):
NATIONAL GRID-FORMER EQUITY MGP SITE
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: CUENCA CORONEL TRUCKING, INC
U.S. EPA ID Number: NON E

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: BAY SHORE SOIL MANAGEMENT, LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: (732) 738-6000
U.S. EPA ID Number: NON E

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP Coal Tar Contaminated Soil Not DOT Not RCRA Regulated, None, None, None	001	DT	4/7720 CT	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 MGP SOIL / (S)MGP COAL TAR CONTAMINATED SOIL

68 7712 540

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
DANIEL P CAMPOLI	Daniel P Campoli	1	27	12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
		4	2	1

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

Appendix F

Certificates of Recycling

Acknowledgment of Treatment and Recycling

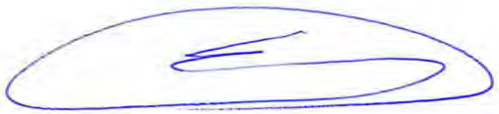
Bayshore Soil Management, LLC hereby acknowledges

The Treatment

Of 1671.35 tons of

Contaminated Soil
(Received Between 9/17/12-9/27/12)

From the **Equity MGP Site-National Grid, Brooklyn, NY**



Bayshore Soil Management, LLC.

December 13, 2013
AIR: Facility ID Number 18437; Permit PCP100001
CLASS B: Facility ID Number 132397: Permit CBG110002
Keasbey, New Jersey

Certificate Number 2712-590-091712-092712

Customer: All
Profile: 2712-590
Material in List: 27, 27CT, 27DRUM, 27DRUM CT, 27 LEVEL 1, 27 LEVEL 2, 27 LEVEL 3, 27 LEVEL 4
Site ID: All

BAYSHORE FAMILY OF COMPANIES

Customer/Profile/Date Report

Transactions from 03/01/2012 through 12/12/2013
Inbound Tickets Only
Third Party and Intercompany Customers
Recycle and Disposal Material
Date Summary

	Tons
BSM0087 - EQ NORTHEAST INC	
2712-590 - EQUITY MGP SITE	
09/17/2012 *10 tickets and 10 transactions*	227.27
09/18/2012 *6 tickets and 6 transactions*	151.12
09/19/2012 *7 tickets and 7 transactions*	187.80
09/20/2012 *9 tickets and 9 transactions*	204.11
09/21/2012 *13 tickets and 13 transactions*	306.12
09/24/2012 *12 tickets and 12 transactions*	299.17
09/25/2012 *9 tickets and 9 transactions*	240.86
09/26/2012 *1 ticket and 1 transaction*	26.75
09/27/2012 *1 ticket and 1 transaction*	28.15
2712-590 - EQUITY MGP SITE *68 tickets and 68 transactions*	1,671.35
BSM0087 - EQ NORTHEAST INC *68 tickets and 68 transactions*	1,671.35
Report Grand Totals ***68 tickets and 68 transactions***	1,671.35

End of Report

Appendix G

Laboratory Analytical Results

H 2 M labs
575 Broad Hollow Road , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1209A99-001

Sample Information...

Type : Soil

Origin:

AECOM
20 Exchange Place, 13th Floor
Manhattan, New York 10005
Attn To : Jennifer Pfeiffer

ClientSample ID. : ARMON - BACKFILL

Collected : 9/20/2012 12:40:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
4,4´-DDD	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
4,4´-DDE	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
4,4´-DDT	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Aldrin	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
alpha-BHC	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
alpha-Chlordane	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Aroclor 1016	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1221	< 70		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1232	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1242	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1248	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1254	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
Aroclor 1260	< 35		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:04 PM
beta-BHC	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
delta-BHC	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Dieldrin	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Endosulfan I	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Endosulfan II	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Endosulfan sulfate	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Endrin	< 3.5		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
gamma-BHC	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Heptachlor	< 1.8		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:25 PM
Surr: Decachlorobiphenyl	47.5		1	%REC	30-150	SW8081/8082	09/25/2012 3:25 PM
Surr: Tetrachloro-m-xylene	85.7		1	%REC	30-150	SW8081/8082	09/25/2012 3:25 PM
Surr: Tetrachloro-m-xylene	106		1	%REC	30-150	SW8081/8082	09/25/2012 3:04 PM
2,4,5-TP (Silvex)	8.6		1	µg/Kg-dry		SW8151	09/25/2012 5:37 PM
Surr: DCAA	85.4		1	%REC	29-136	SW8151	09/25/2012 5:37 PM
Arsenic	< 1.05		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Barium	126		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Beryllium	< 0.53		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Cadmium	< 0.53		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Chromium	30.7		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Copper	25.7		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Lead	6.05		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Manganese	212		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Nickel	23.7		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Selenium	< 0.53		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit below calibration range
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

Date Reported : 9/26/2012

H 2 M labs
575 Broad Hollow Road , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1209A99-001

Sample Information...

Type : Soil

Origin:

AECOM
20 Exchange Place, 13th Floor
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Attn To : Jennifer Pfeiffer

ClientSample ID. : ARMON - BACKFILL

Collected : 9/20/2012 12:40:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
Silver	< 1.05		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Zinc	66.0		1	mg/kg-dry		SW6010B	09/25/2012 1:16 PM
Mercury	< 0.21		1	mg/Kg-dry		SW7471	09/25/2012 3:30 PM
2-Methylphenol	< 240		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
4-Methylphenol	< 240		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Acenaphthene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Acenaphthylene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Anthracene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Benzo(a)anthracene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Benzo(a)pyrene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Benzo(b)fluoranthene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Benzo(g,h,i)perylene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Benzo(k)fluoranthene	< 350	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Chrysene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Dibenzo(a,h)anthracene	< 240	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Dibenzofuran	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Fluoranthene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Fluorene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Hexachlorobenzene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Indeno(1,2,3-cd)pyrene	< 350	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Naphthalene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Pentachlorophenol	< 660	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Phenanthrene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Phenol	< 240		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Pyrene	< 350		1	µg/Kg-dry		SW8270C	09/25/2012 12:52 PM
Surr: 1,2-Dichlorobenzene-d4	59.2		1	%REC	20-130	SW8270C	09/25/2012 12:52 PM
Surr: 2,4,6-Tribromophenol	75.9		1	%REC	19-122	SW8270C	09/25/2012 12:52 PM
Surr: 2-Chlorophenol-d4	72.9		1	%REC	20-130	SW8270C	09/25/2012 12:52 PM
Surr: 2-Fluorobiphenyl	79.3		1	%REC	30-115	SW8270C	09/25/2012 12:52 PM
Surr: 2-Fluorophenol	77.2		1	%REC	25-121	SW8270C	09/25/2012 12:52 PM
Surr: 4-Terphenyl-d14	61.9		1	%REC	18-137	SW8270C	09/25/2012 12:52 PM
Surr: Nitrobenzene-d5	74.7		1	%REC	23-120	SW8270C	09/25/2012 12:52 PM
Surr: Phenol-d5	80.1		1	%REC	24-113	SW8270C	09/25/2012 12:52 PM
1,1,1-Trichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,1-Dichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,1-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM

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Joann M. Slavin
Laboratory Manager

Date Reported : 9/26/2012

H 2 M labs
575 Broad Hollow Road , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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ClientSample ID. : ARMON - BACKFILL

Collected : 9/20/2012 12:40:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
1,2,4-Trimethylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,2-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,2-Dichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,3,5-Trimethylbenzene/P-ethyltoluene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,3-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,4-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
1,4-Dioxane	< 260	c	1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
2-Butanone	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Acetone	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Benzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Carbon tetrachloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Chlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Chloroform	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
cis-1,2-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Ethylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Methyl tert-butyl ether	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Methylene chloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
n-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
n-Propylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
sec-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
tert-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Tetrachloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Toluene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
trans-1,2-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Trichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Vinyl chloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Xylene (total)	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:27 AM
Surr: 1,2-Dichloroethane-d4	93.1		1	%REC	33-145	SW8260B	09/22/2012 2:27 AM
Surr: 4-Bromofluorobenzene	96.7		1	%REC	60-148	SW8260B	09/22/2012 2:27 AM
Surr: Toluene-d8	101		1	%REC	60-132	SW8260B	09/22/2012 2:27 AM
Cyanide	< 0.52		1	mg/Kg-dry		SW9014	09/24/2012 3:34 PM
Chromium, Trivalent	30.7	+	1	mg/Kg		CALC	09/25/2012
Chromium, Hexavalent	< 1.0		1	mg/Kg-dry		SW7196	09/25/2012 2:08 PM
Percent Moisture	5.0		1	wt%		D2216	09/24/2012 10:32 AM

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s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

Date Reported : 9/26/2012

H 2 M labs
575 Broad Hollow Road , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1209A99-002

Sample Information...

Type : Soil

Origin:

AECOM
20 Exchange Place, 13th Floor
Manhattan, New York 10005
Attn To : Jennifer Pfeiffer

ClientSample ID. : GRASSELLI - BACKFILL

Collected : 9/20/2012 12:55:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
4,4´-DDD	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
4,4´-DDE	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
4,4´-DDT	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Aldrin	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
alpha-BHC	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
alpha-Chlordane	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Aroclor 1016	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1221	< 74		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1232	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1242	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1248	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1254	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
Aroclor 1260	< 36		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:19 PM
beta-BHC	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
delta-BHC	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Dieldrin	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Endosulfan I	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Endosulfan II	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Endosulfan sulfate	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Endrin	< 3.6		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
gamma-BHC	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Heptachlor	< 1.9		1	µg/Kg-dry		SW8081/8082	09/25/2012 3:42 PM
Surr: Decachlorobiphenyl	48.7		1	%REC	30-150	SW8081/8082	09/25/2012 3:42 PM
Surr: Tetrachloro-m-xylene	83.0		1	%REC	30-150	SW8081/8082	09/25/2012 3:42 PM
Surr: Tetrachloro-m-xylene	95.9		1	%REC	30-150	SW8081/8082	09/25/2012 3:19 PM
2,4,5-TP (Silvex)	63		1	µg/Kg-dry		SW8151	09/25/2012 6:00 PM
Surr: DCAA	131		1	%REC	29-136	SW8151	09/25/2012 6:00 PM
Arsenic	< 1.10		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Barium	134		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Beryllium	< 0.55		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Cadmium	< 0.55		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Chromium	26.0		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Copper	16.2		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Lead	14.6		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Manganese	253		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Nickel	25.2		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Selenium	< 0.55		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM

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Laboratory Manager

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Collected : 9/20/2012 12:55:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
Silver	< 1.10		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Zinc	63.2		1	mg/kg-dry		SW6010B	09/25/2012 1:34 PM
Mercury	< 0.22		1	mg/Kg-dry		SW7471	09/25/2012 3:44 PM
2-Methylphenol	< 250		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
4-Methylphenol	< 250		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Acenaphthene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Acenaphthylene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Anthracene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Benzo(a)anthracene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Benzo(a)pyrene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Benzo(b)fluoranthene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Benzo(g,h,i)perylene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Benzo(k)fluoranthene	< 360	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Chrysene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Dibenzo(a,h)anthracene	< 250	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Dibenzofuran	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Fluoranthene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Fluorene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Hexachlorobenzene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Indeno(1,2,3-cd)pyrene	< 360	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Naphthalene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Pentachlorophenol	< 690	c	1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Phenanthrene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Phenol	< 250		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Pyrene	< 360		1	µg/Kg-dry		SW8270C	09/25/2012 12:24 PM
Surr: 1,2-Dichlorobenzene-d4	63.2		1	%REC	20-130	SW8270C	09/25/2012 12:24 PM
Surr: 2,4,6-Tribromophenol	91.5		1	%REC	19-122	SW8270C	09/25/2012 12:24 PM
Surr: 2-Chlorophenol-d4	80.9		1	%REC	20-130	SW8270C	09/25/2012 12:24 PM
Surr: 2-Fluorobiphenyl	81.1		1	%REC	30-115	SW8270C	09/25/2012 12:24 PM
Surr: 2-Fluorophenol	85.8		1	%REC	25-121	SW8270C	09/25/2012 12:24 PM
Surr: 4-Terphenyl-d14	64.3		1	%REC	18-137	SW8270C	09/25/2012 12:24 PM
Surr: Nitrobenzene-d5	78.9		1	%REC	23-120	SW8270C	09/25/2012 12:24 PM
Surr: Phenol-d5	86.3		1	%REC	24-113	SW8270C	09/25/2012 12:24 PM
1,1,1-Trichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,1-Dichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,1-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit below calibration range
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

Date Reported : 9/26/2012

H 2 M labs
575 Broad Hollow Road , Melville, NY
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

Lab No. : 1209A99-002

Sample Information...

Type : Soil

Origin:

AECOM
20 Exchange Place, 13th Floor
Manhattan, New York 10005
Attn To : Jennifer Pfeiffer

ClientSample ID. : GRASSELLI - BACKFILL

Collected : 9/20/2012 12:55:00 PM
Received : 9/20/2012 4:31:00 PM
Collected By PP99

Parameter(s)	Results	Qualifier	D.F.	Units		Method Number	Analyzed
1,2,4-Trimethylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,2-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,2-Dichloroethane	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,3,5-Trimethylbenzene/P-ethyltoluene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,3-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,4-Dichlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
1,4-Dioxane	< 280	c	1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
2-Butanone	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Acetone	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Benzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Carbon tetrachloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Chlorobenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Chloroform	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
cis-1,2-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Ethylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Methyl tert-butyl ether	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Methylene chloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
n-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
n-Propylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
sec-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
tert-Butylbenzene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Tetrachloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Toluene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
trans-1,2-Dichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Trichloroethene	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Vinyl chloride	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Xylene (total)	< 11		1	µg/Kg-dry		SW8260B	09/22/2012 2:58 AM
Surr: 1,2-Dichloroethane-d4	99.3		1	%REC	33-145	SW8260B	09/22/2012 2:58 AM
Surr: 4-Bromofluorobenzene	98.6		1	%REC	60-148	SW8260B	09/22/2012 2:58 AM
Surr: Toluene-d8	103		1	%REC	60-132	SW8260B	09/22/2012 2:58 AM
Cyanide	< 0.54		1	mg/Kg-dry		SW9014	09/24/2012 3:35 PM
Chromium, Trivalent	26.0	+	1	mg/Kg		CALC	09/25/2012
Chromium, Hexavalent	< 1.1		1	mg/Kg-dry		SW7196	09/25/2012 2:09 PM
Percent Moisture	9.5		1	wt%		D2216	09/24/2012 10:34 AM

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit below calibration range
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

Date Reported : 9/26/2012

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Website: www.h2mlabs.com

QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **6010_RT_S**

Sample ID: **1209A99-001CMS** SampType: **MS** TestCode: **6010_RT_S** Units: **mg/kg-dry** Prep Date: **9/25/2012** RunNo: **28210**

Client ID: **ARMON - BACKFILL** Batch ID: **36560** TestNo: **SW6010B** **SW3050A** Analysis Date: **9/25/2012** SeqNo: **595249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.07	1.05	4.21	0	96.6	75	125				
Barium	315	21.1	210.5	126.3	89.7	75	125				
Beryllium	4.62	0.53	5.26	0	87.8	75	125				
Cadmium	4.73	0.53	5.26	0	89.8	75	125				
Chromium	47.6	1.05	21.05	30.66	80.2	75	125				
Copper	45.3	2.11	26.32	25.68	74.6	75	125				S
Lead	8.02	0.63	2.11	6.05	93.4	75	125				
Manganese	436	2.11	52.64	212.0	426	75	125				S
Nickel	70.0	4.21	52.64	23.70	88.0	75	125				
Selenium	0.94	0.53	1.05	0.03	86.4	75	125				
Silver	4.74	1.05	5.26	0	90.0	75	125				
Zinc	115	2.11	52.64	66.04	93.7	75	125				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Website: www.h2mlabs.com

QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **6010_S_PKG**

Sample ID: **MB-36560** SampType: **MBLK** TestCode: **6010_S_PKG** Units: **mg/kg** Prep Date: **9/25/2012** RunNo: **28210**

Client ID: **PBS** Batch ID: **36560** TestNo: **SW6010B** **SW3050A** Analysis Date: **9/25/2012** SeqNo: **594420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	< 20.0	20.0									
Antimony	< 6.0	6.0									
Arsenic	< 1.0	1.0									
Barium	< 20.0	20.0									
Beryllium	< 0.5	0.5									
Cadmium	< 0.5	0.5									
Calcium	< 500	500									
Chromium	< 1.0	1.0									
Cobalt	< 5.0	5.0									
Copper	< 2.5	2.5									
Iron	< 10	10									
Lead	< 0.3	0.3									
Magnesium	< 500	500									
Manganese	< 1.5	1.5									
Nickel	< 4.0	4.0									
Potassium	< 500	500									
Selenium	< 0.5	0.5									
Silver	< 1.0	1.0									
Sodium	< 500	500									
Thallium	< 1.0	1.0									
Vanadium	< 5.0	5.0									
Zinc	< 2.0	2.0									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **6010_S_PKG**

Sample ID: **LCS-36560** SampType: **LCS** TestCode: **6010_S_PKG** Units: **mg/kg** Prep Date: **9/25/2012** RunNo: **28210**

Client ID: **LCSS** Batch ID: **36560** TestNo: **SW6010B** **SW3050A** Analysis Date: **9/25/2012** SeqNo: **594421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10,900	20.0	9,780	0	111	40	160.5				
Antimony	91.4	6.0	121.0	0	75.6	21.4	219				
Arsenic	121	1.0	109.0	0	111	83.2	117.4				
Barium	373	20.0	325.0	0	115	83.1	116.9				
Beryllium	105	0.5	92.1	0	114	83.7	116.2				
Cadmium	124	0.5	110.0	0	113	80.7	119.1				
Calcium	7,670	500	6,700	0	114	78.4	121.6				
Chromium	110	1.0	93.4	0	118	80.6	119.9				
Cobalt	163	5.0	133.0	0	123	81.2	125.5				
Copper	86.2	2.5	74.7	0	115	83.8	116.2				
Iron	14,600	10	13,100	0	112	50.5	148.9				
Lead	177	0.3	152.0	0	116	78.9	121.1				
Magnesium	3,280	500	2,980	0	110	69.5	130.2				
Manganese	522	1.5	443.0	0	118	76.7	123.3				
Nickel	129	4.0	109.0	0	119	81.2	126.6				
Potassium	3,070	500	2,770	0	111	65.3	134.7				
Selenium	239	0.5	207.0	0	115	79.2	120.3				
Silver	56.2	1.0	51.9	0	108	66.3	133.7				
Sodium	892	500	724.0	0	123	70.9	129.3				
Thallium	180	1.0	171.0	0	105	77.7	121.6				
Vanadium	126	5.0	110.0	0	115	76.8	123.6				
Zinc	350	2.0	299.0	0	117	81.9	117.7				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Website: www.h2mlabs.com

QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8081/8082_S**

Sample ID: **MB-36497** SampType: **mblk** TestCode: **8081/8082_s** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28239**

Client ID: **PBS** Batch ID: **36497** TestNo: **SW8081/8082 SW3545** Analysis Date: **9/25/2012** SeqNo: **595473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	< 1.7	1.7									
beta-BHC	< 1.7	1.7									
delta-BHC	< 1.7	1.7									
gamma-BHC	< 1.7	1.7									
Heptachlor	< 1.7	1.7									
Aldrin	< 1.7	1.7									
Heptachlor epoxide	< 1.7	1.7									
Endosulfan I	< 1.7	1.7									
Dieldrin	< 3.3	3.3									
4,4´-DDE	< 3.3	3.3									
Endrin	< 3.3	3.3									
Endosulfan II	< 3.3	3.3									
4,4´-DDD	< 3.3	3.3									
Endosulfan sulfate	< 3.3	3.3									
4,4´-DDT	< 3.3	3.3									
Methoxychlor	< 17	17									
Endrin ketone	< 3.3	3.3									
Endrin aldehyde	< 3.3	3.3									
alpha-Chlordane	< 1.7	1.7									
gamma-Chlordane	< 1.7	1.7									
Toxaphene	< 170	170									
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8081/8082_S**

Sample ID: **MB-36497**	SampType: **mblk**	TestCode: **8081/8082_s**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28239**
Client ID: **PBS**	Batch ID: **36497**	TestNo: **SW8081/8082 SW3545**		Analysis Date: **9/25/2012**	SeqNo: **595473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	11		13.33		81.8	30	150				
Surr: Decachlorobiphenyl	10		13.33		75.6	30	150				

Sample ID: **LFB2-36497**	SampType: **lfb**	TestCode: **8081/8082_s**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28239**
Client ID: **ZZZZZZ**	Batch ID: **36497**	TestNo: **SW8081/8082 SW3545**		Analysis Date: **9/25/2012**	SeqNo: **595474**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	150	33	167.0	0	90.4	50	136				
Aroclor 1260	270	33	167.0	0	162	45	154				S
Surr: Tetrachloro-m-xylene	14		13.33		105	30	150				
Surr: Decachlorobiphenyl	12		13.33		89.7	30	150				

Sample ID: **mb-36497**	SampType: **mblk**	TestCode: **8081/8082_s**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28241**
Client ID: **PBS**	Batch ID: **36497**	TestNo: **SW8081/8082 SW3545**		Analysis Date: **9/25/2012**	SeqNo: **595509**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	< 1.7	1.7									
beta-BHC	< 1.7	1.7									
delta-BHC	< 1.7	1.7									
gamma-BHC	< 1.7	1.7									
Heptachlor	< 1.7	1.7									
Aldrin	< 1.7	1.7									
Heptachlor epoxide	< 1.7	1.7									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8081/8082_S**

Sample ID: **mb-36497** SampType: **mblk** TestCode: **8081/8082_s** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28241**

Client ID: **PBS** Batch ID: **36497** TestNo: **SW8081/8082 SW3545** Analysis Date: **9/25/2012** SeqNo: **595509**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endosulfan I	< 1.7	1.7									
Dieldrin	< 3.3	3.3									
4,4´-DDE	< 3.3	3.3									
Endrin	< 3.3	3.3									
Endosulfan II	< 3.3	3.3									
4,4´-DDD	< 3.3	3.3									
Endosulfan sulfate	< 3.3	3.3									
4,4´-DDT	< 3.3	3.3									
Methoxychlor	< 17	17									
Endrin ketone	< 3.3	3.3									
Endrin aldehyde	< 3.3	3.3									
alpha-Chlordane	< 1.7	1.7									
gamma-Chlordane	< 1.7	1.7									
Toxaphene	< 170	170									
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	11		13.33		80.0	30	150				
Surr: Decachlorobiphenyl	7.0		13.33		52.8	30	150				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8081/8082_S**

Sample ID: **lfb-36497** SampType: **lfb** TestCode: **8081/8082_s** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28241**

Client ID: **ZZZZZZ** Batch ID: **36497** TestNo: **SW8081/8082 SW3545** Analysis Date: **9/25/2012** SeqNo: **595511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	15	1.7	13.33	0	109	48	108				S
beta-BHC	21	1.7	13.33	0	160	50	125				S
delta-BHC	18	1.7	13.33	0	139	28	136				S
gamma-BHC	16	1.7	13.33	0	120	50	112				S
Heptachlor	17	1.7	13.33	0	124	45	118				S
Aldrin	15	1.7	13.33	0	111	44	108				S
Heptachlor epoxide	14	1.7	13.33	0	106	53	110				
Endosulfan I	16	1.7	13.33	0	121	58	104				S
Dieldrin	17	3.3	13.33	0	125	51	116				S
4,4´-DDE	15	3.3	13.33	0	112	53	113				
Endrin	17	3.3	13.33	0	129	56	114				S
Endosulfan II	16	3.3	13.33	0	119	55	119				
4,4´-DDD	18	3.3	13.33	0	137	51	123				S
Endosulfan sulfate	18	3.3	13.33	0	134	25	141				
4,4´-DDT	18	3.3	13.33	0	132	54	119				S
Methoxychlor	18	17	13.33	0	135	58	130				S
Endrin ketone	18	3.3	13.33	0	136	63	131				S
Endrin aldehyde	15	3.3	13.33	0	114	61	136				
alpha-Chlordane	15	1.7	13.33	0	112	56	102				S
gamma-Chlordane	15	1.7	13.33	0	109	59	105				S
Surr: Tetrachloro-m-xylene	11		13.33		83.5	30	150				
Surr: Decachlorobiphenyl	7.4		13.33		55.1	30	150				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Website: www.h2mlabs.com

QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8081/8082_S**

Sample ID: **lfb3-36497** SampType: **lfb** TestCode: **8081/8082_s** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28241**

Client ID: **ZZZZZZ** Batch ID: **36497** TestNo: **SW8081/8082 SW3545** Analysis Date: **9/25/2012** SeqNo: **595512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	890	170	666.7	0	133	45	146				
Surr: Tetrachloro-m-xylene	13		13.33		96.0	30	150				
Surr: Decachlorobiphenyl	7.9		13.33		59.2	30	150				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8151_S**

Sample ID: **mb-36529**	SampType: **mblk**	TestCode: **8151_s**	Units: **µg/Kg**	Prep Date: **9/24/2012**	RunNo: **28183**
Client ID: **PBS**	Batch ID: **36529**	TestNo: **SW8151**	**SW8151**	Analysis Date: **9/25/2012**	SeqNo: **595467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)	< 5.0	5.0									
Surr: DCAA	110		200.0		52.9	29	136				

Sample ID: **lfb-36529**	SampType: **lfb**	TestCode: **8151_s**	Units: **µg/Kg**	Prep Date: **9/24/2012**	RunNo: **28183**
Client ID: **ZZZZZZ**	Batch ID: **36529**	TestNo: **SW8151**	**SW8151**	Analysis Date: **9/25/2012**	SeqNo: **595852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)	21	5.0	20.00	0	107	12	146				
Surr: DCAA	110		200.0		57.0	29	136				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8260_S_SUFF**

Sample ID: **VBLK092112** SampType: **MBLK** TestCode: **8260_S_SUF** Units: **µg/Kg** Prep Date: RunNo: **28142**

Client ID: **PBS** Batch ID: **R28142** TestNo: **SW8260B** Analysis Date: **9/21/2012** SeqNo: **593166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	< 250	250									
Vinyl chloride	< 10	10									
1,1-Dichloroethene	< 10	10									
Acetone	< 10	10									
Methylene chloride	< 10	10									
trans-1,2-Dichloroethene	< 10	10									
Methyl tert-butyl ether	< 10	10									
1,1-Dichloroethane	< 10	10									
cis-1,2-Dichloroethene	< 10	10									
2-Butanone	< 10	10									
Chloroform	< 10	10									
1,1,1-Trichloroethane	< 10	10									
Carbon tetrachloride	< 10	10									
Benzene	< 10	10									
1,2-Dichloroethane	< 10	10									
Trichloroethene	< 10	10									
Toluene	< 10	10									
Tetrachloroethene	< 10	10									
Chlorobenzene	< 10	10									
Ethylbenzene	< 10	10									
Xylene (total)	< 10	10									
n-Propylbenzene	< 10	10									
1,3,5-Trimethylbenzene/P-ethyltoluene	< 10	10									
tert-Butylbenzene	< 10	10									
1,2,4-Trimethylbenzene	< 10	10									
sec-Butylbenzene	< 10	10									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8260_S_SUFF**

Sample ID: **VBLK092112**	SampType: **MBLK**	TestCode: **8260_S_SUF**	Units: **µg/Kg**	Prep Date:	RunNo: **28142**
Client ID: **PBS**	Batch ID: **R28142**	TestNo: **SW8260B**		Analysis Date: **9/21/2012**	SeqNo: **593166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	< 10	10									
1,4-Dichlorobenzene	< 10	10									
n-Butylbenzene	< 10	10									
1,2-Dichlorobenzene	< 10	10									
Surr: 1,2-Dichloroethane-d4	40		50.00		80.4	33	145				
Surr: Toluene-d8	52		50.00		104	60	132				
Surr: 4-Bromofluorobenzene	48		50.00		95.0	60	148				

Sample ID: **LFB092112**	SampType: **LFB**	TestCode: **8260_S_SUF**	Units: **µg/Kg**	Prep Date:	RunNo: **28142**
Client ID: **ZZZZZZ**	Batch ID: **R28142**	TestNo: **SW8260B**		Analysis Date: **9/21/2012**	SeqNo: **593167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1,300	250	1,250	0	104	10	205				
Vinyl chloride	42	10	50.00	0	83.2	45	137				
1,1-Dichloroethene	45	10	50.00	0	90.6	47	152				
Acetone	41	10	50.00	0	81.4	23	196				
Methylene chloride	47	10	50.00	0	93.0	50	164				
trans-1,2-Dichloroethene	47	10	50.00	0	93.9	53	157				
Methyl tert-butyl ether	51	10	50.00	0	103	25	171				
1,1-Dichloroethane	46	10	50.00	0	91.8	53	160				
cis-1,2-Dichloroethene	56	10	50.00	0	112	75	130				
2-Butanone	46	10	50.00	0	91.9	52	164				
Chloroform	55	10	50.00	0	110	71	135				
1,1,1-Trichloroethane	51	10	50.00	0	101	59	134				
Carbon tetrachloride	48	10	50.00	0	95.3	57	135				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8260_S_SUFF**

Sample ID: **LFB092112** SampType: **LFB** TestCode: **8260_S_SUF** Units: **µg/Kg** Prep Date: RunNo: **28142**

Client ID: **ZZZZZZ** Batch ID: **R28142** TestNo: **SW8260B** Analysis Date: **9/21/2012** SeqNo: **593167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54	10	50.00	0	108	65	129				
1,2-Dichloroethane	53	10	50.00	0	106	65	143				
Trichloroethene	51	10	50.00	0	102	62	130				
Toluene	52	10	50.00	0	105	66	131				
Tetrachloroethene	46	10	50.00	0	92.9	10	176				
Chlorobenzene	51	10	50.00	0	101	62	136				
Ethylbenzene	49	10	50.00	0	97.4	59	135				
Xylene (total)	150	10	150.0	0	99.1	62	135				
n-Propylbenzene	49	10	50.00	0	97.1	56	125				
1,3,5-Trimethylbenzene/P-ethyltoluene	100	10	100.0	0	102	49	134				
tert-Butylbenzene	47	10	50.00	0	93.7	56	127				
1,2,4-Trimethylbenzene	49	10	50.00	0	98.5	59	126				
sec-Butylbenzene	45	10	50.00	0	89.1	50	126				
1,3-Dichlorobenzene	51	10	50.00	0	103	64	124				
1,4-Dichlorobenzene	51	10	50.00	0	103	61	127				
n-Butylbenzene	45	10	50.00	0	89.4	54	121				
1,2-Dichlorobenzene	53	10	50.00	0	105	67	125				
Surr: 1,2-Dichloroethane-d4	43		50.00		86.9	33	145				
Surr: Toluene-d8	51		50.00		101	60	132				
Surr: 4-Bromofluorobenzene	47		50.00		93.5	60	148				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **MB-36496** SampType: **MBLK** TestCode: **8270_S_4-2** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28248**

Client ID: **PBS** Batch ID: **36496** TestNo: **SW8270C** **SW3545** Analysis Date: **9/25/2012** SeqNo: **595606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzaldehyde	< 330	330									
Phenol	< 330	330									
Bis(2-chloroethyl)ether	< 330	330									
2-Chlorophenol	< 330	330									
2-Methylphenol	< 330	330									
2,2´-oxybis(1-chloropropane)	< 330	330									
Acetophenone	< 330	330									
4-Methylphenol	< 330	330									
N-Nitroso-di-n-propylamine	< 330	330									
Hexachloroethane	< 330	330									
Nitrobenzene	< 330	330									
Isophorone	< 330	330									
2-Nitrophenol	< 330	330									
2,4-Dimethylphenol	< 330	330									
Bis(2-chloroethoxy)methane	< 330	330									
2,4-Dichlorophenol	< 330	330									
Naphthalene	< 330	330									
4-Chloroaniline	< 330	330									
Hexachlorobutadiene	< 330	330									
Caprolactam	< 330	330									
4-Chloro-3-methylphenol	< 330	330									
2-Methylnaphthalene	< 330	330									
Hexachlorocyclopentadiene	< 330	330									
2,4,6-Trichlorophenol	< 330	330									
2,4,5-Trichlorophenol	< 830	830									
1,1´-Biphenyl	< 330	330									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **MB-36496**	SampType: **MBLK**	TestCode: **8270_S_4-2**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28248**	
Client ID: **PBS**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595606**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	< 330	330									
2-Nitroaniline	< 830	830									
Dimethylphthalate	< 330	330									
2,6-Dinitrotoluene	< 330	330									
Acenaphthylene	< 330	330									
3-Nitroaniline	< 830	830									
Acenaphthene	< 330	330									
2,4-Dinitrophenol	< 830	830									
4-Nitrophenol	< 830	830									
Dibenzofuran	< 330	330									
2,4-Dinitrotoluene	< 330	330									
Diethylphthalate	< 330	330									
Fluorene	< 330	330									
4-Chlorophenyl-phenylether	< 330	330									
4-Nitroaniline	< 830	830									
4,6-Dinitro-2-methylphenol	< 830	830									
N-Nitrosodiphenylamine	< 330	330									
4-Bromophenyl-phenylether	< 330	330									
Hexachlorobenzene	< 330	330									
Atrazine	< 330	330									
Pentachlorophenol	< 830	830									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Carbazole	< 330	330									
Di-n-butyl phthalate	< 330	330									
Fluoranthene	< 330	330									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **MB-36496**	SampType: **MBLK**	TestCode: **8270_S_4-2**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28248**
Client ID: **PBS**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	< 330	330									
Butyl benzyl phthalate	< 330	330									
3,3´-Dichlorobenzidine	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Bis(2-ethylhexyl)phthalate	< 330	330									
Di-n-octyl phthalate	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: 2-Fluorophenol	2,500		2,500		99.6	25	121				
Surr: Nitrobenzene-d5	1,500		1,667		91.9	23	120				
Surr: Phenol-d5	2,500		2,500		98.2	24	113				
Surr: 2,4,6-Tribromophenol	2,200		2,500		88.5	19	122				
Surr: 2-Fluorobiphenyl	1,500		1,667		91.2	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		72.3	18	137				
Surr: 2-Chlorophenol-d4	2,300		2,500		91.5	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,400		1,667		86.2	20	130				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **LFB-36496** SampType: **LFB** TestCode: **8270_S_4-2** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28248**

Client ID: **ZZZZZZ** Batch ID: **36496** TestNo: **SW8270C** **SW3545** Analysis Date: **9/25/2012** SeqNo: **595607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzaldehyde	1,200	330	1,667	0	74.7	10	226				
Phenol	1,600	330	1,667	0	94.6	38	104				
Bis(2-chloroethyl)ether	1,500	330	1,667	0	89.4	32	116				
2-Chlorophenol	1,500	330	1,667	0	91.3	36	109				
2-Methylphenol	1,600	330	1,667	0	94.9	36	104				
2,2´-oxybis(1-chloropropane)	1,500	330	1,667	0	88.9	33	116				
Acetophenone	1,500	330	1,667	0	88.6	60	140				
4-Methylphenol	1,600	330	1,667	0	93.0	26	119				
N-Nitroso-di-n-propylamine	1,400	330	1,667	0	86.9	33	109				
Hexachloroethane	1,400	330	1,667	0	86.7	34	105				
Nitrobenzene	1,500	330	1,667	0	91.6	36	119				
Isophorone	1,400	330	1,667	0	86.7	14	129				
2-Nitrophenol	1,400	330	1,667	0	83.8	36	117				
2,4-Dimethylphenol	1,300	330	1,667	0	77.3	24	96				
Bis(2-chloroethoxy)methane	1,500	330	1,667	0	92.1	29	112				
2,4-Dichlorophenol	1,500	330	1,667	0	91.0	41	117				
Naphthalene	1,500	330	1,667	0	92.1	18	142				
4-Chloroaniline	1,100	330	1,667	0	68.2	29	88				
Hexachlorobutadiene	1,500	330	1,667	0	87.4	36	118				
Caprolactam	1,500	330	1,667	0	90.0	40	105				
4-Chloro-3-methylphenol	1,500	330	1,667	0	92.6	45	118				
2-Methylnaphthalene	1,500	330	1,667	0	89.9	31	135				
Hexachlorocyclopentadiene	790	330	1,667	0	47.1	10	97				
2,4,6-Trichlorophenol	1,400	330	1,667	0	82.5	45	110				
2,4,5-Trichlorophenol	1,500	830	1,667	0	88.3	45	111				
1,1´-Biphenyl	1,400	330	1,667	0	86.6	51	99				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **LFB-36496**	SampType: **LFB**	TestCode: **8270_S_4-2**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28248**
Client ID: **ZZZZZZ**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloronaphthalene	1,400	330	1,667	0	83.5	35	107				
2-Nitroaniline	1,300	830	1,667	0	79.4	42	118				
Dimethylphthalate	1,600	330	1,667	0	96.0	49	112				
2,6-Dinitrotoluene	1,600	330	1,667	0	98.1	50	109				
Acenaphthylene	1,500	330	1,667	0	87.8	43	107				
3-Nitroaniline	1,400	830	1,667	0	82.3	40	95				
Acenaphthene	1,600	330	1,667	0	94.6	45	109				
2,4-Dinitrophenol	< 830	830	1,667	0	41.6	10	80				
4-Nitrophenol	1,300	830	1,667	0	75.3	26	118				
Dibenzofuran	1,600	330	1,667	0	94.5	48	112				
2,4-Dinitrotoluene	1,600	330	1,667	0	97.0	49	112				
Diethylphthalate	1,700	330	1,667	0	99.6	51	114				
Fluorene	1,500	330	1,667	0	92.3	47	108				
4-Chlorophenyl-phenylether	1,400	330	1,667	0	86.7	48	111				
4-Nitroaniline	1,500	830	1,667	0	92.1	46	110				
4,6-Dinitro-2-methylphenol	840	830	1,667	0	50.4	16	104				
N-Nitrosodiphenylamine	1,200	330	1,667	0	71.1	39	90				
4-Bromophenyl-phenylether	1,600	330	1,667	0	96.9	50	116				
Hexachlorobenzene	1,700	330	1,667	0	99.8	51	110				
Atrazine	2,000	330	1,667	0	118	74	129				
Pentachlorophenol	930	830	1,667	0	55.8	22	115				
Phenanthrene	1,600	330	1,667	0	94.6	47	124				
Anthracene	1,600	330	1,667	0	94.5	50	117				
Carbazole	1,600	330	1,667	0	95.9	51	114				
Di-n-butyl phthalate	1,700	330	1,667	0	104	53	124				
Fluoranthene	1,600	330	1,667	0	95.2	45	126				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_4-2**

Sample ID: **LFB-36496**	SampType: **LFB**	TestCode: **8270_S_4-2**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28248**
Client ID: **ZZZZZZ**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	1,400	330	1,667	0	82.5	49	132				
Butyl benzyl phthalate	1,300	330	1,667	0	80.7	54	130				
3,3´-Dichlorobenzidine	1,400	330	1,667	0	81.4	41	116				
Benzo(a)anthracene	1,300	330	1,667	0	80.1	52	116				
Chrysene	1,300	330	1,667	0	77.1	48	121				
Bis(2-ethylhexyl)phthalate	1,400	330	1,667	0	82.7	60	127				
Di-n-octyl phthalate	1,200	330	1,667	0	69.6	46	141				
Benzo(b)fluoranthene	980	330	1,667	0	58.9	45	122				
Benzo(k)fluoranthene	1,200	330	1,667	0	71.3	54	124				
Benzo(a)pyrene	1,100	330	1,667	0	65.7	56	119				
Indeno(1,2,3-cd)pyrene	980	330	1,667	0	58.7	50	108				
Dibenzo(a,h)anthracene	1,000	330	1,667	0	62.7	52	109				
Benzo(g,h,i)perylene	1,000	330	1,667	0	62.8	30	107				
Surr: 2-Fluorophenol	2,200		2,500		86.3	25	121				
Surr: Nitrobenzene-d5	1,300		1,667		80.9	23	120				
Surr: Phenol-d5	2,200		2,500		88.1	24	113				
Surr: 2,4,6-Tribromophenol	2,000		2,500		79.8	19	122				
Surr: 2-Fluorobiphenyl	1,300		1,667		79.9	30	115				
Surr: 4-Terphenyl-d14	990		1,667		59.7	18	137				
Surr: 2-Chlorophenol-d4	2,000		2,500		81.8	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,300		1,667		80.6	20	130				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_TCL**

Sample ID: **MB-36496** SampType: **MBLK** TestCode: **8270_S_TCL** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28214**

Client ID: **PBS** Batch ID: **36496** TestNo: **SW8270C** **SW3545** Analysis Date: **9/25/2012** SeqNo: **594452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	< 230	230									
2-Methylphenol	< 230	230									
4-Methylphenol	< 230	230									
Naphthalene	< 330	330									
Acenaphthylene	< 330	330									
Acenaphthene	< 330	330									
Dibenzofuran	< 330	330									
Fluorene	< 330	330									
Hexachlorobenzene	< 330	330									
Pentachlorophenol	< 630	630									
Phenanthrene	< 330	330									
Anthracene	< 330	330									
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 230	230									
Benzo(g,h,i)perylene	< 330	330									
Surr: 2-Fluorophenol	2,500		2,500		100	25	121				
Surr: Nitrobenzene-d5	1,500		1,667		92.9	23	120				
Surr: Phenol-d5	2,500		2,500		98.1	24	113				
Surr: 2,4,6-Tribromophenol	2,300		2,500		91.3	19	122				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_TCL**

Sample ID: **MB-36496**	SampType: **MBLK**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28214**
Client ID: **PBS**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **594452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	1,500		1,667		92.5	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		73.3	18	137				
Surr: 2-Chlorophenol-d4	2,300		2,500		91.7	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,400		1,667		81.7	20	130				

Sample ID: **LFB-36496**	SampType: **LFB**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28214**
Client ID: **ZZZZZZ**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **594453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1,600	230	1,667	0	94.8	38	104				
2-Methylphenol	1,600	230	1,667	0	95.2	36	104				
4-Methylphenol	1,600	230	1,667	0	94.1	26	119				
Naphthalene	1,500	330	1,667	0	92.1	18	142				
Acenaphthylene	1,500	330	1,667	0	88.8	43	107				
Acenaphthene	1,600	330	1,667	0	95.3	45	109				
Dibenzofuran	1,600	330	1,667	0	95.2	48	112				
Fluorene	1,600	330	1,667	0	93.3	47	108				
Hexachlorobenzene	1,700	330	1,667	0	100	51	110				
Pentachlorophenol	870	630	1,667	0	52.4	22	115				
Phenanthrene	1,600	330	1,667	0	95.2	47	124				
Anthracene	1,600	330	1,667	0	95.8	50	117				
Fluoranthene	1,600	330	1,667	0	96.4	45	126				
Pyrene	1,400	330	1,667	0	82.6	49	132				
Benzo(a)anthracene	1,300	330	1,667	0	80.3	52	116				
Chrysene	1,300	330	1,667	0	76.9	48	121				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_TCL**

Sample ID: **LFB-36496**	SampType: **LFB**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28214**
Client ID: **ZZZZZZ**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **594453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,000	330	1,667	0	60.1	45	122				
Benzo(k)fluoranthene	1,200	330	1,667	0	71.8	54	124				
Benzo(a)pyrene	1,100	330	1,667	0	67.0	56	119				
Indeno(1,2,3-cd)pyrene	970	330	1,667	0	58.2	50	108				
Dibenzo(a,h)anthracene	1,000	230	1,667	0	60.6	52	109				
Benzo(g,h,i)perylene	1,100	330	1,667	0	64.6	30	107				
Surr: 2-Fluorophenol	2,200		2,500		86.7	25	121				
Surr: Nitrobenzene-d5	1,400		1,667		81.7	23	120				
Surr: Phenol-d5	2,200		2,500		88.0	24	113				
Surr: 2,4,6-Tribromophenol	2,100		2,500		82.3	19	122				
Surr: 2-Fluorobiphenyl	1,400		1,667		81.1	30	115				
Surr: 4-Terphenyl-d14	1,000		1,667		60.5	18	137				
Surr: 2-Chlorophenol-d4	2,100		2,500		82.0	20	130				
Surr: 1,2-Dichlorobenzene-d4	1,300		1,667		76.5	20	130				

Sample ID: **MB-36496**	SampType: **MBLK**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28247**
Client ID: **PBS**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloroethane	< 330	330									
Nitrobenzene	< 330	330									
Acenaphthene	< 330	330									
Fluorene	< 330	330									
Phenanthrene	< 330	330									
Anthracene	< 330	330									

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_TCL**

Sample ID: **MB-36496**	SampType: **MBLK**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28247**
Client ID: **PBS**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	< 330	330									
Pyrene	< 330	330									
Benzo(a)anthracene	< 330	330									
Chrysene	< 330	330									
Benzo(b)fluoranthene	< 330	330									
Benzo(k)fluoranthene	< 330	330									
Benzo(a)pyrene	< 330	330									
Indeno(1,2,3-cd)pyrene	< 330	330									
Dibenzo(a,h)anthracene	< 330	330									
Benzo(g,h,i)perylene	< 330	330									
Surr: Nitrobenzene-d5	1,500		1,667		87.1	23	120				
Surr: 2-Fluorobiphenyl	1,500		1,667		89.7	30	115				
Surr: 4-Terphenyl-d14	1,200		1,667		73.9	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,400		1,667		84.3	20	130				

Sample ID: **LFB-36496**	SampType: **LFB**	TestCode: **8270_S_TCL**	Units: **µg/Kg**	Prep Date: **9/21/2012**	RunNo: **28247**
Client ID: **ZZZZZZ**	Batch ID: **36496**	TestNo: **SW8270C**	**SW3545**	Analysis Date: **9/25/2012**	SeqNo: **595571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloroethane	1,400	330	1,667	0	86.0	34	105				
Nitrobenzene	1,600	330	1,667	0	93.2	36	119				
Acenaphthene	1,600	330	1,667	0	95.9	45	109				
Fluorene	1,600	330	1,667	0	94.7	47	108				
Phenanthrene	1,700	330	1,667	0	99.8	47	124				
Anthracene	1,600	330	1,667	0	94.9	50	117				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **8270_S_TCL**

Sample ID: **LFB-36496** SampType: **LFB** TestCode: **8270_S_TCL** Units: **µg/Kg** Prep Date: **9/21/2012** RunNo: **28247**

Client ID: **ZZZZZZ** Batch ID: **36496** TestNo: **SW8270C** **SW3545** Analysis Date: **9/25/2012** SeqNo: **595571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	1,600	330	1,667	0	96.7	45	126				
Pyrene	1,500	330	1,667	0	89.4	49	132				
Benzo(a)anthracene	1,300	330	1,667	0	79.2	52	116				
Chrysene	1,300	330	1,667	0	78.0	48	121				
Benzo(b)fluoranthene	860	330	1,667	0	51.7	45	122				
Benzo(k)fluoranthene	1,500	330	1,667	0	87.3	54	124				
Benzo(a)pyrene	1,100	330	1,667	0	67.4	56	119				
Indeno(1,2,3-cd)pyrene	1,000	330	1,667	0	60.4	50	108				
Dibenzo(a,h)anthracene	1,000	330	1,667	0	62.2	52	109				
Benzo(g,h,i)perylene	1,100	330	1,667	0	64.4	30	107				
Surr: Nitrobenzene-d5	1,300		1,667		76.7	23	120				
Surr: 2-Fluorobiphenyl	1,300		1,667		78.6	30	115				
Surr: 4-Terphenyl-d14	1,000		1,667		61.0	18	137				
Surr: 1,2-Dichlorobenzene-d4	1,300		1,667		78.9	20	130				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **CN9014_S**

Sample ID: **LCS-36538**	SampType: **LCS**	TestCode: **CN9014_S**	Units: **mg/Kg**	Prep Date: **9/24/2012**	RunNo: **28141**
Client ID: **LCSS**	Batch ID: **36538**	TestNo: **SW9014**	**SW9010**	Analysis Date: **9/24/2012**	SeqNo: **593155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	42	12	41.16	0	102	80	120				

Sample ID: **1209A99-002DMS**	SampType: **MS**	TestCode: **CN9014_S**	Units: **mg/Kg-dry**	Prep Date: **9/24/2012**	RunNo: **28141**
Client ID: **GRASSELLI - BACK**	Batch ID: **36538**	TestNo: **SW9014**	**SW9010**	Analysis Date: **9/24/2012**	SeqNo: **593158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	28	2.7	26.91	0	103	75	125				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **Cr6_S**

Sample ID: **MB-36568**	SampType: **MBLK**	TestCode: **Cr6_S**	Units: **mg/Kg**	Prep Date: **9/25/2012**	RunNo: **28226**
Client ID: **PBS**	Batch ID: **36568**	TestNo: **SW7196**	**SW3060**	Analysis Date: **9/25/2012**	SeqNo: **595266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	< 1.0	1.0									

Sample ID: **LCS-36568**	SampType: **LCS**	TestCode: **Cr6_S**	Units: **mg/Kg**	Prep Date: **9/25/2012**	RunNo: **28226**
Client ID: **LCSS**	Batch ID: **36568**	TestNo: **SW7196**	**SW3060**	Analysis Date: **9/25/2012**	SeqNo: **595267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	56.8	10	60.7	0	93.6	80	120				

Sample ID: **1209921-001CMS**	SampType: **MS**	TestCode: **Cr6_S**	Units: **mg/Kg-dry**	Prep Date: **9/25/2012**	RunNo: **28226**
Client ID: **ZZZZZZ**	Batch ID: **36568**	TestNo: **SW7196**	**SW3060**	Analysis Date: **9/25/2012**	SeqNo: **595270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	234	209	2,011	0	11.6	75	125				S

Sample ID: **1209921-001CSOL**	SampType: **MS**	TestCode: **Cr6_S**	Units: **mg/Kg-dry**	Prep Date: **9/25/2012**	RunNo: **28226**
Client ID: **ZZZZZZ**	Batch ID: **36568**	TestNo: **SW7196**	**SW3060**	Analysis Date: **9/25/2012**	SeqNo: **595271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	< 20.6	20.6	165.2	0	0	75	125				S

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

H2M LABS INC
575 Broad Hollow Road
Melville, NY 11747
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Website: www.h2mlabs.com

QC SUMMARY REPORT

WO#: **1209A99**

26-Sep-12

Client: AECOM

Project: National Grid Equity Former MGP Site **TestCode:** **HG_7471A_S**

Sample ID: **MB-36565**	SampType: **MBLK**	TestCode: **HG_7471A_S**	Units: **mg/Kg**	Prep Date: **9/25/2012**	RunNo: **28233**
Client ID: **PBS**	Batch ID: **36565**	TestNo: **SW7471**	**SW7471**	Analysis Date: **9/25/2012**	SeqNo: **595303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-36565**	SampType: **LCS**	TestCode: **HG_7471A_S**	Units: **mg/Kg**	Prep Date: **9/25/2012**	RunNo: **28233**
Client ID: **LCSS**	Batch ID: **36565**	TestNo: **SW7471**	**SW7471**	Analysis Date: **9/25/2012**	SeqNo: **595304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 4.00	4.00	2.96	0	93.2	71.7	128.4				

Sample ID: **1209B97-002AMS**	SampType: **MS**	TestCode: **HG_7471A_S**	Units: **mg/Kg-dry**	Prep Date: **9/25/2012**	RunNo: **28233**
Client ID: **ZZZZZZ**	Batch ID: **36565**	TestNo: **SW7471**	**SW7471**	Analysis Date: **9/25/2012**	SeqNo: **595308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	133	22.7	0.19	155.2	-11,800	75	125				S

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Sample Receipt Checklist

Client Name **AECOM** Date and Time Received: **9/20/2012 4:31:00 PM**

Work Order Number: **1209A99** RcptNo: **1** Received by: **Tamika Ricks**

Completed by: Reviewed by:

Completed Date: 9/21/2012 Reviewed Date: 9/21/2012 5:06:00 PM

Carrier name: H2M Pickup

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐		
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐		
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐		
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	0.2 º
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☐	Sticker	☐	Not Present	☑
Airbill No:						

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☑ No Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Manhattan, NY
60137362
May 2015

Completion Report
Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site
Brooklyn, New York
NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606

AECOM Environment

Prepared for:
National Grid
Brooklyn, NY

Prepared by:
AECOM
Manhattan, NY
60137362
May 2015

Completion Report
Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site
Brooklyn, New York
NYSDEC Site No.: 224050
Order on Consent Index #: A2-0552-0606

Prepared by Mark McCabe, Program Manager

Reviewed By Mike Gardner, Sr. Engineer

Reviewed by Peter S. Cox, Project Manager

Engineering Certification

I, Michael J. Gardner, certify that I am currently a NYS registered professional engineer and that this Interim Remedial Measure for NAPL Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance (DER-10).

Respectfully submitted,

AECOM, Inc.

Michael Gardner

Michael J. Gardner
Registered Professional Engineer
New York License No. 089344

5/20/15
Date



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Acronyms

BUG	Brooklyn Union Gas Company
CAMP	Community Air Monitoring Plan
EEA	EEA Inc.
ESA	Environmental Site Assessment
ESI	Environmental Subsurface Investigation
FDNY	Fire Department of New York
ft	Feet
ft bgs	Feet Below Ground Surface
ft^2	Square Feet
GFE	Gannett Fleming Environmental
gpd	Gallon Per Day
gpm	Gallons Per Minute
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
mg/m^3	Milligrams Per Cubic Meter
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
NYCRR 6	New York Codes, Rules and Regulations Chapter 6
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
PDI	Pre-Design Investigation
PM10	Respirable Particulate Matter that is 10 micrometers or smaller
PPE	Personal Protection Equipment
ppmv	Parts Per Million By Volume
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SVOCs	Semivolatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top Of Casing
TPH	Total Petroleum Hydrocarbons
TVOC	Total Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

Executive Summary

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Completion Report to document the installation of a NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) located at 254 Maspeth Avenue in Brooklyn, New York. The IRM, as well as environmental investigation and other associated remedial activities, are being conducted pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG), now d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC).

The site is located in a historically industrialized area. The Site was operated as a MGP from approximately 1893 to 1929. BUG transferred ownership of the Site in 1951. The Site currently consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue. The 222 Maspeth Avenue property is used by Cooper Tank as a solid waste recycling facility, with the 252 and 254 parcels used to support Cooper Tank's recycling operations.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the expansion of active recycling operations on the 252 and 254 Maspeth Avenue properties. Conditions of that permit require the construction of a perimeter wall around open areas of the 254 Maspeth property and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM to control potential migration of non-aqueous phase liquid (NAPL) while a final site remedy is developed through the DER 10 process. The IRM activities included the following:

- installation of 5 NAPL recovery wells at appropriate locations within the central areas of the Site to reduce the quantity of NAPL, and at 18 selected perimeter locations to control the potential for off-site migration.
- on-going measurement and recovery of NAPL that collects in the recovery wells.

It should be noted that NAPL recovery is not performed at all recovery wells due to either the absence of NAPL or the limited thickness of NAPL within the collection sump of certain recovery wells. All recovery wells were installed during the period of March 3 to April 10, 2013. All locations had a common design (6 inch diameter, 5 and 10 foot stainless screens, 5 foot long sump to retain collected NAPL) and were equipped with the infrastructure to support automated recovery, if required. Eleven manual monitoring events were conducted during the period when Cooper Tank was designing and completing the installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February, 2014). NAPL was collected during these events and managed at a permitted off-site facility as an alternative fuel in accordance with NYSDEC DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment". Data collected during these events indicated that NAPL collection rates at 13 of the 23 locations (2 on-site and 11 perimeter) warranted the installation of pumps to support automated recovery. The remaining 10 wells are managed using manual recovery techniques.

The pumps, associated controls and NAPL accumulation tank were installed during the period of June and July 2014. The fixed speed pumps are controlled by timers to ensure that the NAPL at each location is contained within the sump at a level above the pump inlet. The remaining locations are

monitored as part of the quarterly site inspection activities and NAPL is recovered on an as required basis to maintain the NAPL level within the sump.

Collected NAPL accumulates in a 500 gallon double walled polyethylene capacity tank located above ground in the system's control trailer on the 254 parcel. The accumulation tank is equipped with a high liquid level detector to prevent over-filling, as well as secondary containment. The system is also equipped with additional alarms and communication equipment to ensure its safe operation.

The system is exempt from solid and hazardous waste permitting requirements under NYSDEC Guidance DER-10, "Technical Guidance for Site Investigation and Remediation" and the Consent Order for the Site since the substantive technical requirements of permits is met by the following:

- Development and Implementation of a Preparedness and Prevention Plan, Contingency Plan and Closure Plan.
- Maintaining Secondary Containment on the accumulation tank.

Additionally, the contents of the tank will be removed at a frequency of less than 90-days. It is expected that the contents will meet the requirements to be managed as an alternative fuel under NYSDEC DER-4. Collected NAPL that does not meet the requirements as an alternative fuels will be managed as a solid waste, and if necessary manifested as a hazardous waste for disposal at a permitted off-site facility.

The IRM monitoring and recovery activities will be documented in quarterly and annual Monitoring and Recovery Reports detailing the operation of the system, including NAPL collection rates, maintenance issues, unplanned releases/responses and a summary of off-site waste shipments for disposal.

1.0 Introduction

National Grid's consultant, AECOM, is submitting this Interim Remedial Measure (IRM) Completion Report to document the installation of the NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) which consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue located in Brooklyn, New York. The location of the Site and the orientation of the individual properties are illustrated in Figures 1-1 and 1-2, respectively.

The IRM is being implemented pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG), now d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC), in accordance with applicable guidelines of the NYSDEC and the New York State Department of Health (NYSDOH).

This document is organized in the following manner: the background of the 222, 252 and 254 Maspeth Avenue properties is summarized in Section 2, activities associated with the installation of the recovery wells are detailed in Section 3, monitoring and NAPL recovery activities are summarized in Section 4, proposed reporting procedures related to the operation of the recovery system are provided in Section 5, and references are included in Section 6.

2.0 Site Background

A brief historical summary of the Site and description of the current property layout are provided below.

2.1 Site History and Description

The Site is located in an historically industrialized area, which remains the same today. The Site was operated as a MGP from approximately 1893 to 1929. BUG sold the Site in September 1951. Subsequently, the Site was used for storage (pipe and valves) during the period of 1965 to 1981, and is believed to have been vacant during the period of 1986 to 1988. The Site is thought to have been used as a solid waste transfer facility since 1990 under the ownership of various parties.

2.2 Current Property Layout

Information related to the current ownership and use of the Site is provided below:

- 222 Maspeth Avenue – This property is owned by 222 Maspeth Avenue, LLC. and is currently used as an active waste recycling/waste transfer station operated by Cooper Tank Recycling (Cooper Tank). Currently, one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations are located on the lot.
- 252 Maspeth Avenue – This property is owned by Giacomo and Giovanna Bordone and is currently leased by Cooper Tank. The property is used as a maintenance center for equipment and a two story concrete building is located on the north side of the property, along Maspeth Avenue.
- 254 Maspeth Avenue – This property is currently owned by 254 Maspeth Avenue, LLC. The property has been used for occasional storage of empty roll-off containers, parking of tractor-trailers, and Cooper Tank employee vehicle parking. Two rectangular, in-ground scales for determining truck tare weight and a storm water collection structure are located on the northern portion of the property.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the recycling facility. This permit, which covers the expansion of the current 222 Maspeth Avenue operations into the 252 and 254 Maspeth Avenue properties required construction of a perimeter wall around open areas of the 254 Maspeth parcel, and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. This work was completed by Cooper Tank in the spring of 2014 at the 254 Maspeth Avenue property. Installation of a storm water collection system and concrete surface pad at the 252 Maspeth Avenue property is delayed with an unknown completion date.

Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM while a final site remedy is developed through the DER 10 process.

3.0 Recovery Well Installation

AECOM, on behalf of National Grid, conducted an IRM to collect NAPL while site-wide investigation and remedial design activities are completed. The design of the NAPL recovery system has been based on the installation of 23 NAPL recovery wells at locations that have the potential to collect NAPL, and are compatible with Cooper Tank's construction and long-term operational plans.

3.1 Mobilization and Site Preparation

Mobilization for the IRM occurred on March 8, 2013, and included the staging of the necessary equipment and personnel to manage investigation derived waste, implement the Health and Safety Plan (HASP) and setup an on-site decontamination facility.

Site preparation activities included utility clearance and installation of site and traffic controls. Prior to the start of field activities, Dig Safely New York was contacted, and companies with subsurface utilities present in the work area marked-out their utilities in areas immediately adjacent to the Site. Cooper Tank provided site drawings to identify the locations of on-site utility lines. The IRM contractor (Envirotrac) delineated and marked-off work areas to facilitate the effective flow of site traffic for their and for Cooper Tank vehicles. Proposed well locations were surveyed by geophysical methods to identify possible locations of subsurface structures not indicated on available drawings. All well locations were pre-cleared to a depth of 5 ft bgs.

3.2 Recovery Well Locations

Consistent with the NYSDEC approved work-plan (AECOM, 2013), NAPL recovery wells were installed in the following areas of the Site:

- **On-Site**–5 NAPL recovery wells (RW-1 through 5) were installed at locations within the 252 Maspeth Avenue property .
- **Site Perimeter** –18 NAPL recovery wells (RW-16 through 23) were installed along the perimeter of the Site on the 222, 252 and 254 Maspeth Avenue properties

An illustration of well locations is provided on Figure 3-1. The perimeter locations are spaced at approximately 18 feet - on center, with the exception of the area along the driveway of 254 Maspeth where the presence of a subsurface structure has required spacing of approximately 30 feet between the three NAPL recovery wells (RW-6, -7 and -8). All locations were equipped with the infrastructure i.e., conduits for electrical service and tubing, for the subsequent automation of NAPL recovery activities, if needed.

3.3 Recovery Well Designs

Recovery wells were designed to accommodate the uncertainty of long-term NAPL recovery rates. All well risers were constructed of 6-inch diameter schedule 40 polyvinyl chloride (PVC). Recovery well screens were constructed of 6-inch diameter 0.020-inch slot wire wrap stainless steel. Five (5) and ten (10) foot lengths of screen were used, as required, to address soil intervals where NAPL (i.e., saturated thickness greater than 1-inch) has been observed. Centralizers were installed at the top and bottom of each screen. The screen size was selected based on the grain-size information obtained

during the PDI. Each well was equipped with a 5-foot long, 6-inch diameter, stainless steel sump to collect NAPL. An illustration of a typical in-place recovery well, as installed using the procedures detailed below, is provided in Figure 3-2.

3.3.1 Well Installation Procedures

The NAPL recovery wells were installed during the period of March 14 to April 10, 2013. Soil borings were advanced at each of the locations, and soil samples collected for observation. A summary of NAPL observations is provided as Table 3-1, with copies of the boring logs provided in Appendix A. Based on the observations, the bottom of the well screen was set at the bottom of the observed NAPL saturated interval. A summary of the design/actual depths and screen intervals for well installation is also provided in Table 3-1. Multiple intervals of NAPL saturation that were separated by low permeability soils within a location were screened separately.

The diameter of the bore hole for all locations was at least four inches greater than the riser and screen diameter. The well casing assembly, consisting of the sump, centralizer, screen, and casing was then lowered into the borehole and grout was carefully tremied into the base of the borehole until it reached the top of each sump. A sand filter pack was then placed around the well screen and the riser to a minimum of two feet above the top of the well screen.. The annular space above the filter pack was filled with a bentonite seal (minimum of 3 to 4 feet thick). Note that additional bentonite seals were used at locations where multiple screen intervals were installed. The annular space above the bentonite seal was filled with a grout mixture from the bentonite seal to approximately one to two feet below the top of casing (TOC). Each recovery well was completed in a 4-foot by 4-foot traffic-rated well vault. A photograph of a completed location is provided as Figure 3-3.

It should be noted that the Work Plan outlined the use of a pre-determined quantity of cement/bentonite grout to be placed in the bottom of the boring to fill the annulus between the sump and the bore hole wall to the screen-sump interface where a cement basket was to be placed. However, well placement difficulties resulting in damage to the cement basket occurred during the first well installation. NYSDEC oversight personnel approved the alternate well installation method described in the paragraph above.

The elevation of the top of the vaults were set to be flush with the proposed final concrete ground surface for the facility. Installed wells were surveyed for elevation and location using a surveyor licensed in the State of New York. A minimum of 24-hours post-installation of the grout, each well was developed using surge and pump procedures to remove drilling fluids and fine-grained material from the sump, well screen, and filter pack. Development water was stored in on-site frac tanks prior to disposal at an approved off-site facility, as outlined in Section .3.2.2 below.

Equipment was routinely decontaminated to prevent the potential cross-contamination between boreholes and/or the spread of contaminated material outside of the IRM work areas. Large-scale equipment was pressure washed prior to leaving the Site. Decontamination water generated during cleaning of tools and equipment was temporarily stored on-site for later off-site disposal at an approved facility as outlined in Section .3.2.2 below. The installation of the infrastructure and controls for the system was completed on May 7, 2014.

3.3.2 Environmental Controls

Environmental controls were implemented to ensure that the work activities were conducted in accordance with the NYSDEC approved Work Plan (AECOM, 2013).

3.3.2.1 Air Monitoring

Site perimeter air monitoring was performed in accordance with NYSDOH requirements and the Community Air Monitoring Plan (CAMP) for the project. Concentrations of total volatile organic compounds (TVOC) ranged from 0.1 to 0.5 parts per million by volume (ppmv). Levels of respirable particulate matter (PM10) ranged from 0.01 to 0.8 milligrams per cubic meter (mg/m^3). Summary data sheets from the monitoring program are provided in Appendix B.

3.3.2.2 Waste Management

The installation of the recovery system resulted in the generation of the following wastes:

- Drill cuttings from the installation of the recovery wells (14.47 tons)
- Excavated soil and concrete/debris from the installation of the utility conduits running between the recovery wells and the recovery well vaults (783.6 tons)
- Purge water from the development of the wells and decontamination water (5,904 gallons)

In instances where existing analytical profiles were not available, the investigation derived wastes were characterized for the following analytical parameters: Toxicity Characteristic Leaching Procedure (TCLP), corrosivity, ignitability, reactivity, total petroleum hydrocarbons (TPH), and polychlorinated biphenyls (PCBs). All wastes were managed as solid wastes at a permitted off-site facility. Documentation of disposal at Bayshore Soil Management (soils), Bayshore Recycling Corporation (concrete/debris), and Clean Water of New York (purge/decon water) are provided in Appendix C. Note that the analysis of representative samples of the collected purge water from recovery well development indicated that material exhibited levels of benzene that exceeded the Toxicity Characteristic criterion for benzene. The frac tank containing the water was appropriately labeled to indicate that the contents had the potential to be a hazardous waste. Subsequently, the purge water was transferred to a second tank using a closed system that included an in-line carbon canister in accordance with New York Codes, Rules and Regulations Chapter 6 (NYCRR 6) Subpart 371.1(e)(3)(i). The rule exempts waste that is generated in a storage tank from regulation as a hazardous waste until it leaves the unit. Since the purge water was re-sampled in the second tank and found to have benzene levels that were less than the Toxicity Characteristic threshold, it was managed off-site as a solid waste. The spent carbon and sediment from the bottom of the frac tanks were managed in accordance with NYSDEC DER-4, “Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment.” Personal protection equipment (PPE) was also managed at Bayshore Recycling, and is included in the quantity listed above.

4.0 Monitoring and NAPL Recovery

As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates to determine which locations would require automation for cost-effective management of collected NAPL. Subsequent monitoring/recovery activities will be conducted on an as-required basis to a negotiated endpoint or until a final remedy is selected/implemented for the Site through the DER-10 process.

4.1 Initial Monitoring

Eleven (11) manual monitoring events were conducted during the period when Cooper Tank was completing the design and installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February 2014). As part of the monitoring activities, the depth to water, total well depth, and depth to NAPL were measured at each location. All readings were evaluated for reasonableness, and re-measured as necessary to ensure accurate data.

Collected NAPL was recovered using an air lift system. The system consists of an air compressor and sample line (1-in outside diameter [O.D.] black iron pipe) that runs from the bottom of the well sump to a closed 55 gallon drum and is operated in the following manner:

- A small stream of compressed air is introduced into the bottom of the sample line through a “T’ connection.
- The upward movement of the air “bubble” creates a vacuum that draws NAPL upward from the sump and into the drum.
- The consistency of the stream is observed until the fluid being removed appears to be clear (i.e. NAPL is no longer being removed). At that point, the air flow is discontinued and the volume of collected NAPL is measured and recorded.

Summaries of the results from the monitoring activities are provided in Tables 5-1 (NAPL thickness) and 5-2 (recovered NAPL). As indicated on Table 5-2, manual gauging and recovery activities performed between May 2013 and February 2014 have provided the following findings:

- The majority of NAPL (approximately 85 percent of total) has been collected from eight locations that have been designated as “primary recovery wells.”
  - 2 interior wells
    - 252 Parcel - RW-2, RW-3
  - 6 perimeter
    - 254 Parcel – RW-10, RW-12, RW-13
    - 252 Parcel – RW-18, RW-19, RW-20
- Five other perimeter locations have accounted for the remaining 15% of NAPL collected. They have been designated as “secondary recovery wells.”
  - 254 Parcel – RW-8, RW-9, RW-11, RW-17

- 252 Parcel – RW-21

- None or limited quantities of NAPL have been observed in the 10 remaining wells. These have been designated as “gauging wells.” At these locations, wells are purged on a regular basis if levels of NAPL have the potential to exceed the sump height in the well.

The collected NAPL is currently being managed as an alternative fuel at the Tradebe Facility in Cohoes, New York. The approach meets the requirements for managing the NAPL as a solid waste in accordance with NYSDEC DER-4. Documentation for the management of recovered NAPL is provided in Appendix C.

4.2 On-going Monitoring and NAPL Recovery

The NAPL recovery system is intended to collect NAPL and develop data related to the nature and extent of to support the evaluation of potential long-term remedies for the Site. As a result, the NAPL recovery system will be operated in a manner that maintains the NAPL levels within the well sumps. The recovery approaches for the primary, secondary and gauging wells are described below:

- **Primary Recovery Wells** - The eight primary wells currently produce about 1 gpd each of NAPL. The manual management of NAPL at these locations would require that recovery activities be conducted on a weekly basis to ensure that the storage capacity of the well sumps (approximately 7.5 gallons) not be exceeded. This frequency of monitoring/collection is not thought to be cost-effective or practical given site access issues and the level of activity on the Cooper Tank facility. As a result, the wells at these eight locations were automated.
- **Secondary Recovery Wells** - The five secondary wells currently produce about 0.1 to 0.5 gpd of NAPL. The manual management of NAPL at these five locations would require that recovery activities be conducted on a monthly basis to ensure that the storage capacity of the well sumps is not exceeded. Long-term manual monitoring/recovery at this frequency is not thought to be cost effective, and these locations were also be automated.
- **Gauging Wells** – The ten gauging wells currently produce less than 0.1 gpd of NAPL. NAPL at these locations will be effectively managed using manual recovery techniques.

The locations of the automated wells are illustrated on Figure 4-1.

4.2.1 System Operation

The primary and secondary locations have been equipped with fixed speed pumps manufactured by Pump Works. The well pumps are controlled with timers that will be adjusted based upon the observed recharge rates. The initial pumping rates for these locations are provided below.

- Primary Recovery Wells – 0.2 gallons per minute (gpm) for approximately 5 minutes per day to achieve a recovery rate of approximately 1 gpd.
- Secondary Recovery Wells- 0.01 to 0.05 gpm for approximately 10 minutes per day to achieve a recovery rate of 0.1 to 0.5 gpd.

The timers will be adjusted as required to ensure that the NAPL is contained within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. Collected NAPL accumulates in a 500 gallon capacity double walled polyethylene tank located above ground in the system’s control trailer on the 254 parcel (Figure 4-2). The accumulation tank is equipped with a high liquid level detector to prevent over-filling, as well as secondary containment. The system is

equipped with additional alarms and communication equipment to ensure its safe operation. National Grid has developed the following documents to support the operation of the NAPL recovery system:

- **Preparedness and Prevention Plan** – identifies communication/alarm systems and their associated maintenance/testing schedule, and will define staff training procedures. The document is used to familiarize local police, fire department and emergency response teams with the layout of the facility, nature of the waste, places where facility staff would normally be located and evacuation routes for site staff.
- **Contingency Plan** – describes the actions to be taken in response to unplanned releases of waste. It provides lists of emergency contacts/support equipment; describe the arrangements with local police, fire department and emergency responders and identifies an evacuation route for site personnel.
- **Closure Plan** – describes the approach for decommissioning the system, as well as detailing the steps necessary to decontaminate all of the system components and manage waste residuals.

Copies of the documents have been provided to Cooper Tank staff, as well as local police, fire and emergency responders.

The Gauging wells will be monitored during quarterly inspection activities and collected NAPL will be recovered using the air lift equipment described above. The NAPL will be transferred to the accumulation tank.

Accumulated NAPL will be collected as required for transport by a licensed contractor to the Tradebe Facility for use as an alternative fuel. Representative samples of the contents of the tank will be collected and analyzed as required to support the disposal activities. Samples will be submitted for proper waste characterization on an annual basis as required by the disposal facility.

4.2.2 System Permitting Requirements

The collected NAPL is designated as a solid waste under NYCRR 6 Subpart 360-1.2 (a)(2)(iii), i.e. “it will be accumulated before being disposed of”. Although the recovered NAPL will be a solid waste, NYSDEC guidance and regulations provide the following options for pursuing exemptions from associated permitting requirements for the accumulation tank.

- NYSDEC Guidance DER-10, “Technical Guidance for Site Investigation and Remediation” provides an exemption from certain permitting requirements for activities that are conducted as a component of a remedial program. Section 1.10 of DER-10 states that the NYSDEC will typically grant an exemption from state permits/ authorizations for activities conducted under appropriate oversight, e.g., an Order on Consent or Voluntary Cleanup Agreement, and in instances where NYSDEC determines that the proposed procedures/ activities will comply with the substantive technical requirements of the permit. Appendix 1-C of the guidance specifically lists the construction/ operation of solid waste management units as activities that are subject to the exemption described in Section 1.10 of the guidance. The potential for an exemption in instances where remedial activities meet the substantive technical requirements of a state permit is also incorporated in the referenced Consent Order for the Site (Section XIV, C.1). A review of the background information presented above demonstrates that the proposed operating practices for the NAPL accumulation tank are consistent with the technical and administrative requirements of the NYSDEC Solid Waste Management

regulations, NYCRR, 6 Subpart 360, and should make the system subject to a solid waste permitting exemption.

- NYCRR 6 Subpart 360-1.7 (b)(4) provides a separate and specific exemption from solid waste permitting for temporary storage facilities located at a single industry/commercial establishment and used exclusively for the management of waste at that facility. The intended purpose of the accumulation tank is also consistent with the requirements of this exemption from solid waste permitting.

Analytical results indicate that the NAPL has the potential to be classified a RCRA D018 Waste due to its benzene content. However, the results suggest that it is not likely to be designated as a Toxicity Characteristic waste for other constituents, or as an Ignitable, Corrosive or Reactive waste when generated. NYSDEC Guidance DER-4, “Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment” provides a conditional hazardous waste exclusion for D018 wastes at former MGP sites in instances when the waste is managed in accordance with New York State solid waste management requirements and is thermally treated at a facility permitted to receive non-hazardous media. It is expected that the recovered NAPL will meet these criteria and qualify for the hazardous waste exclusion.

Concerns that future variability in waste composition for constituents other than benzene might ‘trigger’ the requirement for a hazardous waste permit may also be addressed by the exemptions referenced in DER-10 and the Consent Order. Additionally, NYCRR 6 Part 373-1.1(d)(1)(iv) provides a separate and specific exemption to hazardous waste permitting requirements for accumulation units if the contents are removed in less than 90-days, secondary containment is used and certain administrative requirements, including prevention and preparedness training for staff, and preparation of contingency/closure plans are met. The proposed operating/reporting procedures are also consistent with the requirements of this exemption from hazardous waste permitting. However, wastes not meeting the requirements of the DER-4 exemption would have to be manifested and managed as a hazardous waste upon removal from the accumulation tank.

Analytical results from samples of representative samples of collected NAPL indicate that it could be classified as a Class III A Combustible Liquid due to its flash point, and could require a storage permit from the Fire Department of New York (FDNY) for the quantities that are expected to be accumulated. However, e-mail communication with FDNY stated that the storage permit requirement would not apply to the collected material at the Site since it will consist of a mixture of NAPL and water (Appendix D).

5.0 Reporting

The IRM activities will be documented in an annual report for the first year of operation and quarterly Monitoring and Recovery Reports thereafter presenting the results from the on-going monitoring and NAPL recovery activities. The proposed contents of these periodic reports are outlined below.

The Reports will provide a summary of the monitoring events conducted during the period, including:

- A summary of observations from each well.
- Depths to water and NAPL in each well.
- Observed NAPL thickness in each well.
- Trends in observed NAPL thickness in each well.
- Quantity of mixed fluids recovered from each well.
- Manifests for the off-site management of waste.
- Documentation of unplanned releases and associated responses.
- Documentation of significant maintenance events.
- Recommendations for the subsequent monitoring and recovery activities.

6.0 References

AECOM, 2013. Interim Remedial Measure Work Plan for Product Recovery, Equity Works Former MGP Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. January 2013.

AECOM, 2012. Interim Site Management Plan, Equity Works Former Manufactured Gas Plant Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. November 28, 2012.

National Grid, 2012. National Grid Environmental Procedure 2-A, Aboveground Storage Tank Management, December 2012.

New York State Department of Environmental Conservation (NYSDEC), 2002. Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment (DER-4), January 11, 2002.

NYSDEC, 2010. DER-10/Technical Guidance for Site Investigation and Remediation, May 10, 2010.

Tables

Table 3-1
Former Equity Works Product Recovery IRM
Well Observations and Installation Parameters

Well ID	Installation Date	Screened Interval bgs (ft)	Sump Interval bgs (ft)	Total Well Depth (ft)	Top of Intermediate Clay bgs (ft)	Observations
RW-01	3/15-3/16/13	25'-40'	40'-45'	45'	40'	Approximately 14' of sand from 26'-40' was saturated with tar.
RW-02	3/17/2013	36'-46'	46'-51'	51'	46'	Approximately 9.5' of sand from 36.5'-46' was saturated with tar.
RW-03	3/17/2013	31'-46'	46'-51'	51'	46'	Approximately 7.5' of sand from 32'-32.5', 37'-43' and 45'-46' was saturated with tar.
RW-04	3/21/2013	16'-21' & 36'-46'	46'-51'	51'	46'	Approximately 1' of fill from 20'-21', and 2' of sand 44'-46' were saturated with tar.
RW-05	3/14-3/15/13	32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-42' sand saturated with TLM.
RW-06	3/20/2013	17'-22' & 32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-19', and 10' of sand from 32'-42' was saturated with tar.
RW-07	3/23-3/24/13	Not finished	43'-48'	48'	43'	Approximately 10' of sand from 33'-43' was saturated with tar.
RW-08	3/23/2013	33'-43'	43'-48'	48'	43'	Approximately 8' of sand from 35'-43' was saturated with tar.
RW-09	3/18/2013	35'-45'	45'-50'	50'	44.5'	Approximately 9.5' of sand from 35'-44.5' was saturated with tar.
RW-10	3/18-3/19/13	31'-41'	41'-46'	46'	41'	Approximately 4' of sand from 34'-38' and approximately 3' of sand layers interbedded with clay from 38'-41' was saturated with tar.
RW-11	3/19/2013	31'-41' & 16'-21'	41'-46'	46'	40'	Approximately 2' of fill from 16'-18' and 6' of san from 34'-40' were saturated with tar, beds of sand from 30'-34' were also saturated with tar.
RW-12	3/19/2013	31'-41'	41'-46'	46'	40.5'	Approximately 6.5' of sand from 34'-40.5' was saturated with tar.
RW-13	3/20/2013	31'-41'	41'-46'	46'	41'	Approximately 8' of sand from 32'-40' was saturated with tar.
RW-14	3/20/2013	15'-20' & 30'-40'	40'-45'	45'	40'	Fill saturated with TLM @16.5'-18', and 7' of sand from 32'-39' was saturated with tar.
RW-15	3/19-3/20/13	30'-40'	40'-45'	45'	40'	Approximately 10' of sand from 30'-40' was saturated with tar.
RW-16	3/18-3/19/13	30'-45'	45'-50'	50'	45'	Approximately 7' of sand from 30'-32', 35'-40' was saturated with tar, pockets of tar from 40'-45'
RW-17	4/8-4/10/13	28'-43'	43'-48'	48'	43'	Approximately 13.5' of sand from 26.5'-40' had a coating of TLM, with saturated zones from 26'-26.5' and 40'-43' with TLM
RW-18	3/14-3/15/13	35'-45'	45'-50'	50'	45'	Fill coated with TLM @ 19'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-45' sand saturated with TLM.
RW-19	3/16/2013	37'-47'	47'-52'	52'	46.5'	Approximately 5' of sand from 42'-47' was saturated with tar.
RW-20	3/15-3/16/13	37'-47'	47'-52'	52'	47'	Approximately 10' of sand 37'-47' was saturated with tar.
RW-21	3/18/2013	35'-45'	45'-50'	50'	45'	Approximately 6' of sand from 39'-45' was saturated with tar.
RW-22	3/16-3/17/13	31'-41'	41'-46'	46'	41'	Approximately 6' of sand from 35'-40.5' was saturated with tar.
RW-23	3/17/2013	24'-39'	39'-44'	44'	39'	Approximately 9' of sand from 25'-30' and 35'-39' was saturated with tar.

Table 4-1
Former Equity Works Manufactured Gas Plant Site
Product Monitoring and Recovery Event
Measured Thickness

Location			Measured NAPL Thickness (ft.)										
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014
On-Site	252	RW- 1	0.85	0.90	1.01	0.85	0.81	0.86	1.91	NM	NM	NM	2.5
		RW- 2	13.03	8.40	5.02	3.35	12.35	11.65	9.34	12.15	11.72	10.22	13.25
		RW- 3	15.45	10.25	5.03	4.26	14.55	13.15	11.15	13.32	NM	NM	NM
		RW- 4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 5	1.33	1.80	1.75	2.10	2.32	3.25	4.35	4.30	0.72	0.21	2.11
Perimeter	254	RW- 6	0.81	1.41	1.55	1.40	1.81	2.20	NE	3.0	3.73	0.30	3.11
		RW- 7	0.02	NE	0.12	NE	0.62	NM	NM	NM	NM	NM	NM
		RW- 8	2.53	3.11	2.65	3.21	5.22	1.80	3.05	4.22	1.55	1.20	5
		RW- 9	6.02	1.95	2.65	3.43	6.65	4.61	6.24	8.23	4.20	2.80	9.25
		RW- 10	13.05	7.05	4.22	2.20	6.11	11.85	9.01	11.93	11.00	9.91	12.85
		RW- 11	2.57	3.22	3.35	4.01	5.65	1.65	2.42	1.80	1.35	1.12	4.31
		RW- 12	13.32	13.03	9.94	7.53	12.96	13.03	11.92	11.90	12.22	11.90	11.71
		RW- 13	13.50	12.61	6.98	5.00	11.93	11.45	10.60	11.42	11.70	9.15	12.33
		RW- 14	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 15	1.02	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 16	0.17	NE	NE	NE	0.15	0.03	NE	0.20	0.51	0.15	0.72
		RW- 17	1.40	1.60	1.12	0.71	3.35	3.75	4.75	6.02	6.60	0.23	5.85
	252	RW- 18	10.42	9.55	6.69	7.45	10.05	10.31	10.14	10.22	9.55	10.01	11.25
		RW- 19	13.18	11.45	7.42	7.50	12.62	12.45	11.55	11.42	11.05	11.65	12.75
		RW- 20	3.62	11.11	7.23	6.33	13.00	12.25	12.57	12.02	11.03	11.85	12.78
		RW- 21	3.75	4.05	0.85	1.58	4.40	4.02	3.24	5.81	4.05	3.60	10.02
	222	RW- 22	7.40	6.80	2.22	2.22	9.02	NM	9.31	9.45	9.32	9.40	9.35
		RW- 23	NM	NM	NM	NM	0.64	NM	1.17	1.20	NE	NE	1.54

Note:

NE - not encountered at thickness greater than 0.01 ft.

NM- not measured, not accessible

NAPL encountered, but not recovered

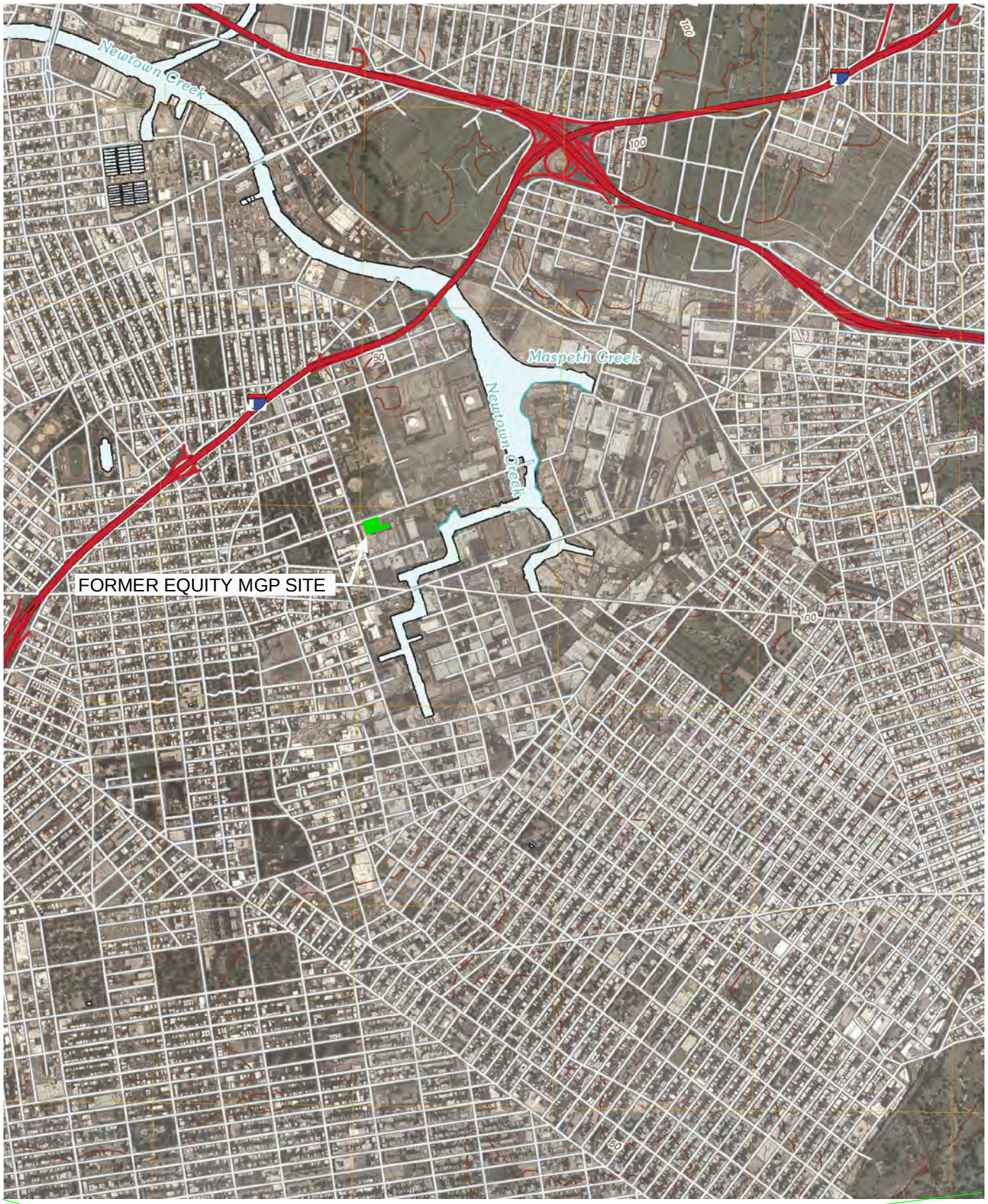
Table 4-2
Former Equity Works Manufactured Gas Plant Site
Product Monitoring and Recovery Event
Quantity of Product Recovered

Location			Gal. NAPL Per Day a											Total gal.	Percent	
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014	to date	of Total	
On-Site	252	RW- 1	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 2	0.3	1.0	0.9	0.9	0.6	0.4	0.9	0.6	0.7	0.9	0.3	169	10.1	
		RW- 3	0.3	1.2	1.0	0.9	0.7	0.4	1.2	0.6	0	0	0	124	7.4	
		RW- 4	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 5	0	0	0	0	0	0	0	0.2	0	0	0	7	0.4	18.0
Perimeter	254	RW- 6	0	0	0	0	0	0	0		0	0	0	6	0.4	
		RW- 7	0	0	0	0	0	0	0		0	0	0	0		
		RW- 8	0	0.1	0	0	0.3	0	0	0.2	0.1	0	0	29	1.7	
		RW- 9	0.2	0	0	0	0.3	0	0	0.4	0.3	0	0	56	3.4	
		RW- 10	0.5	1.1	1.1	1.0	0.3	0.5	0.9	0.6	0.6	0.9	0.3	178	10.7	
		RW- 11	0	0.0	0.0	0	0.2	0.0	0.2	0.1	0.1	0	0.3	39	2.3	
		RW- 12	0.2	1.6	2.3	1.7	0.6	0.5	1.2	0.5	0.7	1.1	0.3	193	11.6	
		RW- 13	0.2	1.3	1.3	1.3	0.6	0.4	1.0	0.5	0.6	0.8	0.3	171	10.3	
		RW- 14	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 15	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 16	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 17	0	0	0	0	0	0	0	0	0.4	0	0	20	1.2	41.5
	252	RW- 18	0.2	0.8	1.2	1.2	0.5	0.3	0.9	0.5	0.6	0.9	0.1	144	8.6	
		RW- 19	0.3	1.2	1.4	1.3	0.7	0.4	1.1	0.6	0.6	1.0	0.2	172	10.3	
		RW- 20	0.3	1.2	1.2	0.9	0.6	0.4	1.2	0.6	0.7	1.0	0.3	179	10.7	
		RW- 21	0	0.6	0	0.0	0.3	0.1	0.0	0.3	0.3	0.3	0.3	59	3.5	33.2
	222	RW- 22	0.3	0.7	0.7	0.4	0.4	0.0	1.0	0.5	0.5	0.9	0.2	120	7.2	
		RW- 23	0	0	0	0	0	0	0	0	0	0	0.2	2	0.1	7.3
Total		System Total	2.8	10.8	11.1	9.6	6.1	3.4	9.6	6.2	6.4	8	3.1	1,668		

Notes:

[a] estimated of NAPL quantity (total fluids * estimated percent NAPL)

Figures



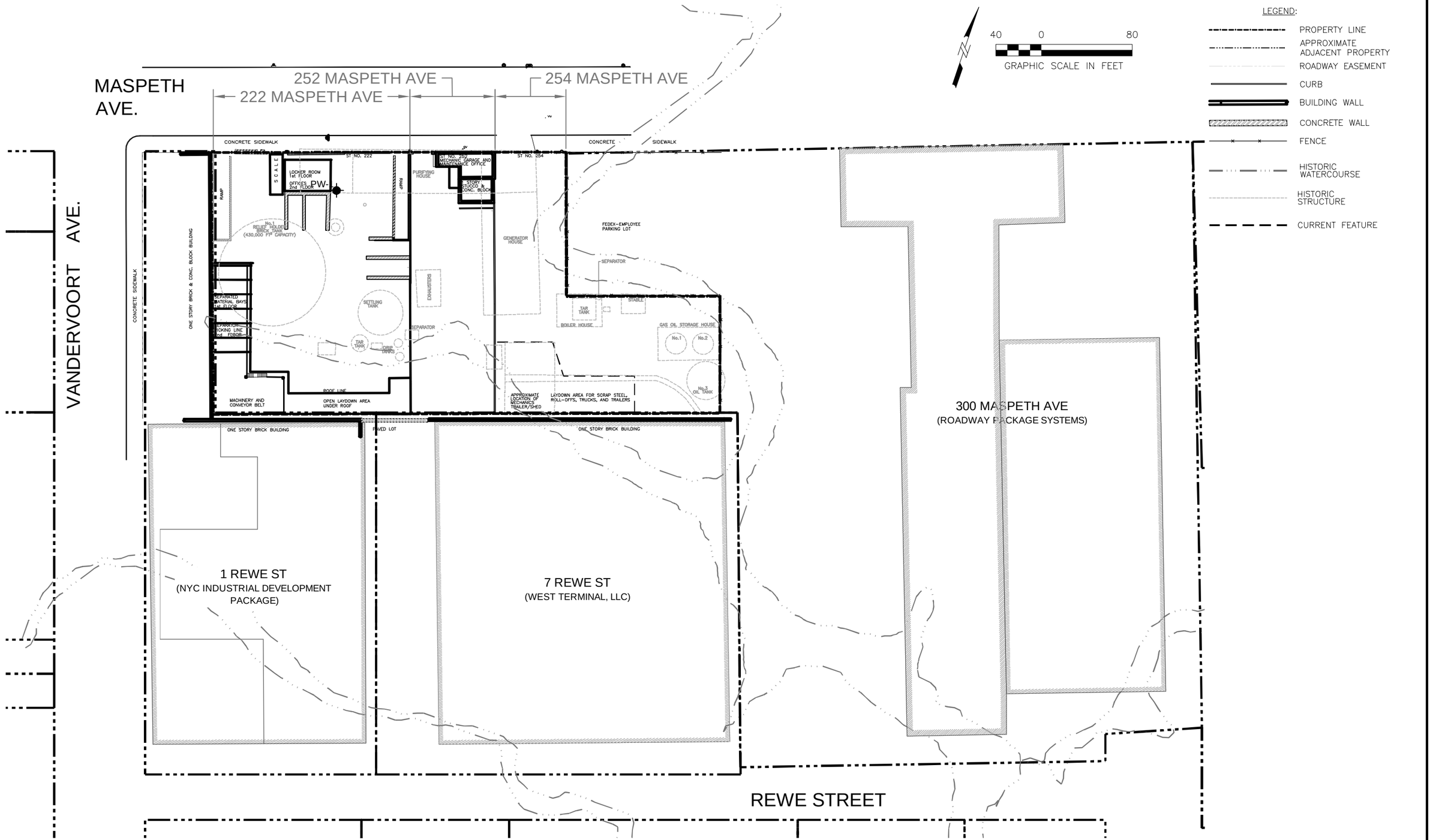
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY

SITE LOCATION

DATE: 12/2012 | DRWN: BcV/C-MA | **FIGURE 1-1**

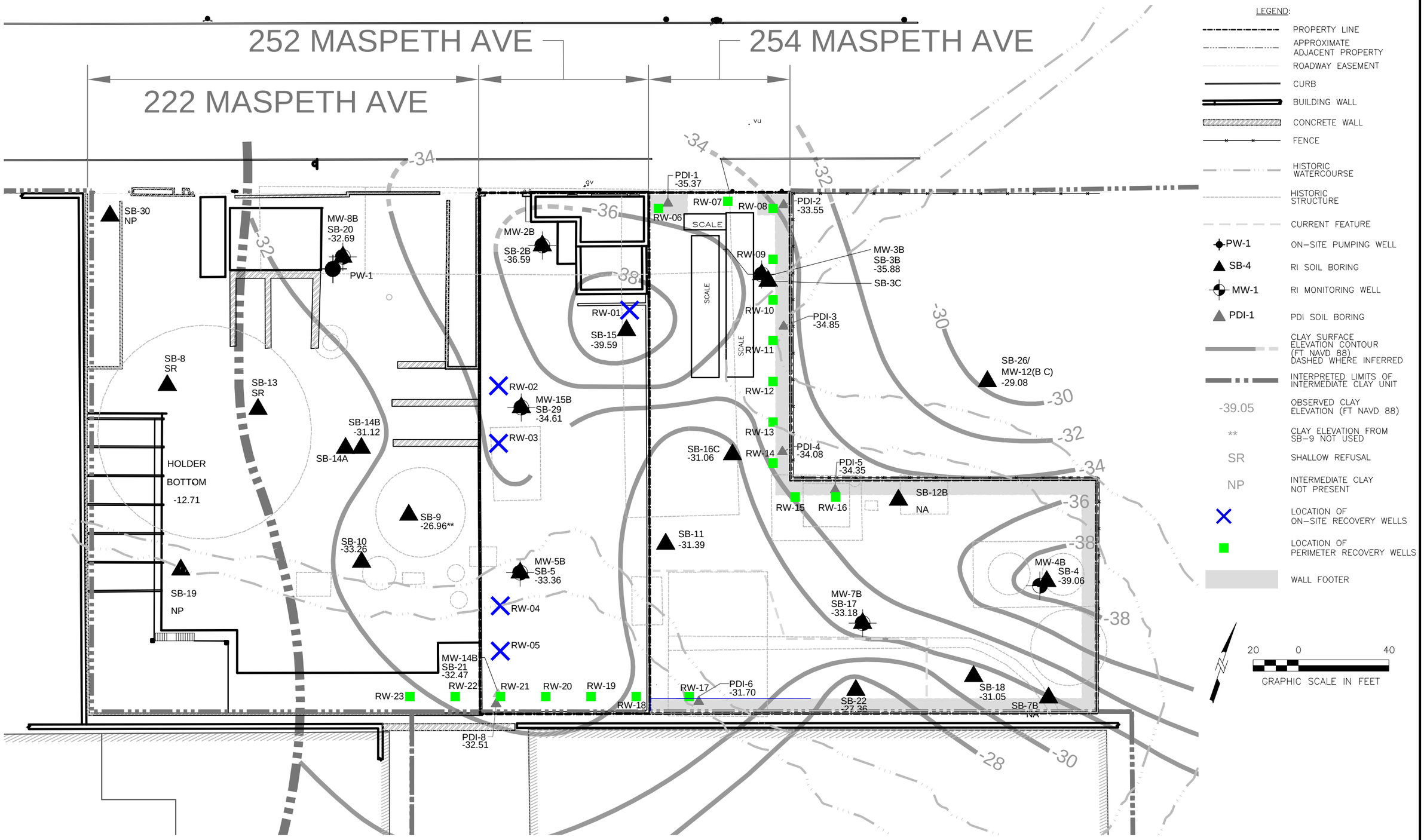
File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site LocUSGSphoto User: vershonb Plotte



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400			SITE PROPERTIES
DATE: 12/2012	DRWN: BcV/C-MA		FIGURE 1-2

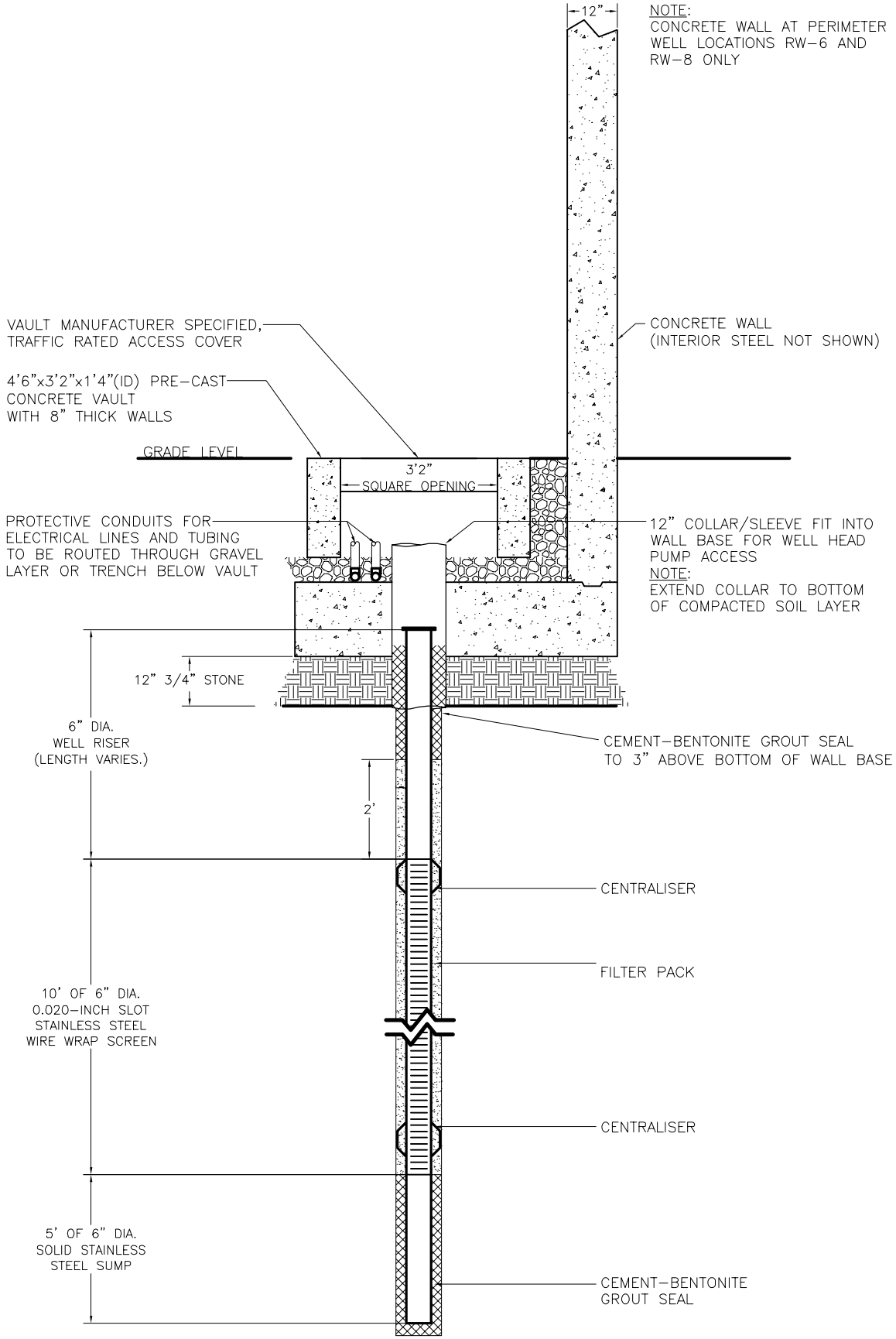
File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site Limits User: vershonb Plotted: Dec 1



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400		LOCATIONS OF ON-SITE AND PERIMETER RECOVERY WELLS
DATE: 12/11/12	DRWN: BcV/C-MA	**FIGURE 3-1**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660_A5.dwg Layout: Layout1 User: vershonb Plotted: Dec 11, 2



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY			**RECOVERY WELL CONSTRUCTION**
DATE: 03/17/2015	DRWN: RCW		**FIGURE 3-2**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: WellDetail User: warrenr Plotted: Mar 17,





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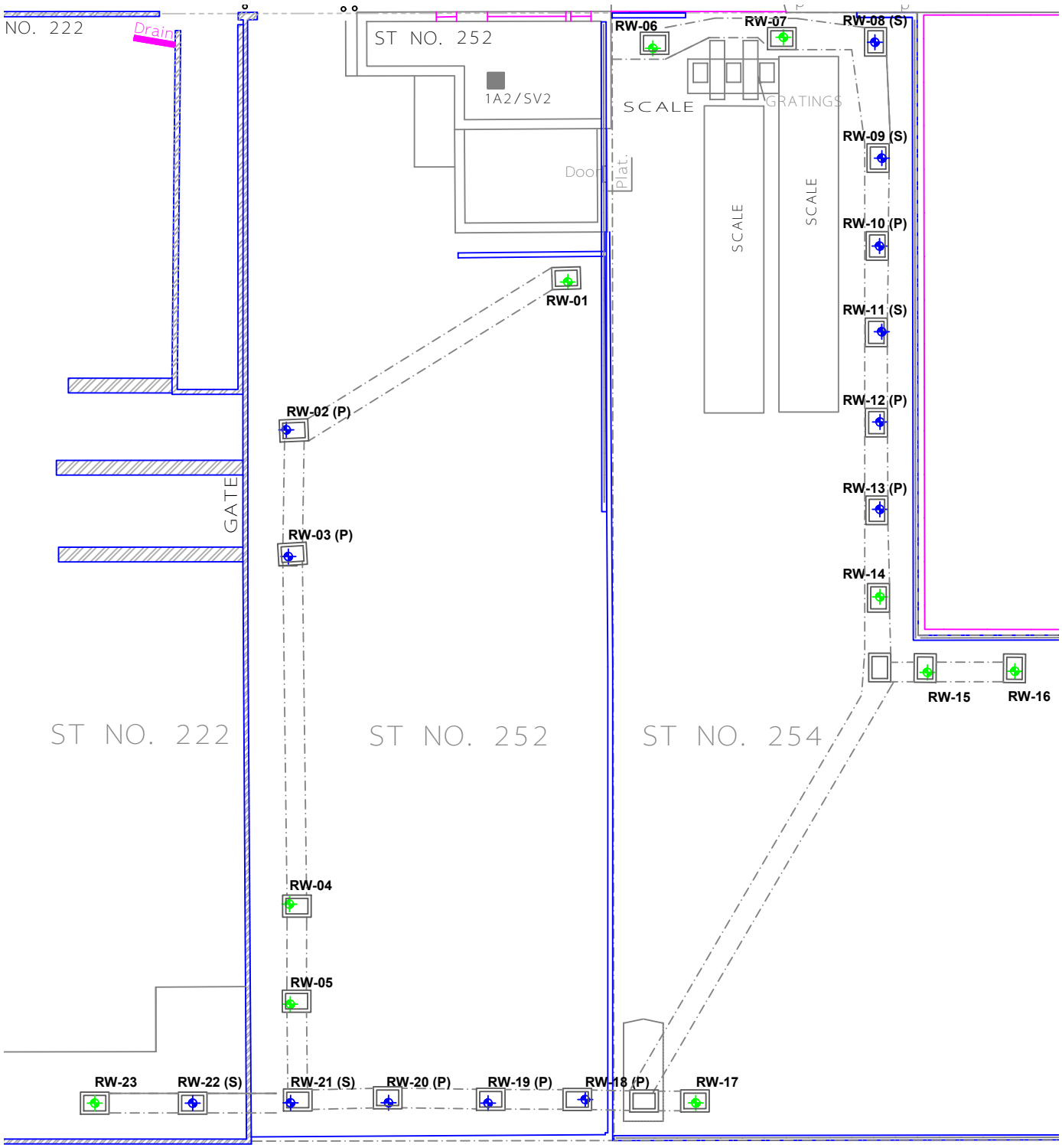
NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN, NY
60137362.660

COMPLETED WELL LOCATION

Figure 3-3



LEGEND

RW-02 (P) AUTOMATED WELLS - PRIMARY (COLLECTION RATE > 1 GPD)

RW-08 (S) AUTOMATED WELLS - SECONDARY (COLLECTION RATE 0.5 - 0.1 GPD)

RW-01 GAUGING WELLS (COLLECTION RATE < 0.1 GPD)

15 0 30

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY
60137362.660

DATE: 10/30/2013 | DRWN: BcV/C-MA

LOCATION OF AUTOMATED WELLS

FIGURE 4-1

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2013-PR Well Layout\60137362-668-PR Wells with Pumps.dwg Layout: PS (WorkProduct) User: clearym Plotted: Fe





AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN, NY
60137362.660

CONTROL TRAILER

Figure 4-2

Appendix A

Boring/Recovery Well Logs

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.4	**Well Screen Interval (ft bgs):** 25-40
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	NA	NA			Concrete	Approximately 1 foot of CONCRETE		
						1.0 FILL		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12							Bentonite Seal	
14								
16								
						17.0		
18	NA	NA				FILL, tar coating		
						19.0		
20	NA	NA				PEAT, tar coating		
						20.0		
22	NA	NA			PT	PEAT, tar stringers and lenses		
24						24.0		
	NA	NA				SILTY fine SAND, tar coated	Filter Pack (#0 Sand)	
						25.0		
26					SP	SILTY fine SAND, tar saturated		

Remarks: Boring Terminated (ft): 45.0

See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

AECOM
500 Enterprise Dr, Suite 1A
Rocky Hill, CT 06067
Phone: (860) 263-5800
Fax: (860) 263-5777

(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW1

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686698.8 **Easting:** 649174.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.4	**Well Screen Interval (ft bgs):** 25-40
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND, tar coated *(continued)*		
30								
32								
34	NA	NA			SP		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
36								
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout 6" Diam. SS Sump	
44						45.0		

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log SB-15 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA						
10					FILL			
12								
14							Bentonite Grout	
	NA	NA				14.0 FILL material, tar coated		
16	NA	NA				15.0 FILL material, heavily tar coated		
						17.0		
18	NA	NA				FILL material 18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						24.0		
	NA	NA				SILTY fine SAND		
26					SP	25.0 SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW10

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686726.5 **Easting:** 649232.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32								
34						34.0		
36	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38						38.0		
40	NA	NA			SC	Interbedded SAND and CLAY, tar saturated		
42						41.0	Grout	
44	NA	NA			CL	CLAY	6" Diam. SS Sump	
46								
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA					Bentonite Seal	
10					FILL			
12								
14								
16						16.0	Filter Pack (#0 Sand)	
18	NA	NA				FILL material, tar saturated		
						18.0		
20	NA	NA				FILL material	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
						20.0		
22	NA	NA			PT	PEAT/organic material	6" Diam. Sch. 40 PVC Riser	
24						24.0		
26					SP	SILTY fine SAND, tar coated bands	Bentonite Seal	

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW11

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686710.1 **Easting:** 649238.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated bands *(continued)*		
30						30.0 SILTY fine SAND, tar saturated, beds of tar saturation from 30 to 34 ft bgs	Filter Pack (#0 Sand)	
32					SP			
34	NA	NA						
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout	
44							6" Diam. SS Sump	
46						46.0		

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA			FILL			
10								
12								
14							Bentonite Grout	
16						16.0		
	NA	NA				FILL material, tar saturated		
						17.0		
18	NA	NA				FILL material		
						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						24.0		
26	NA	NA			SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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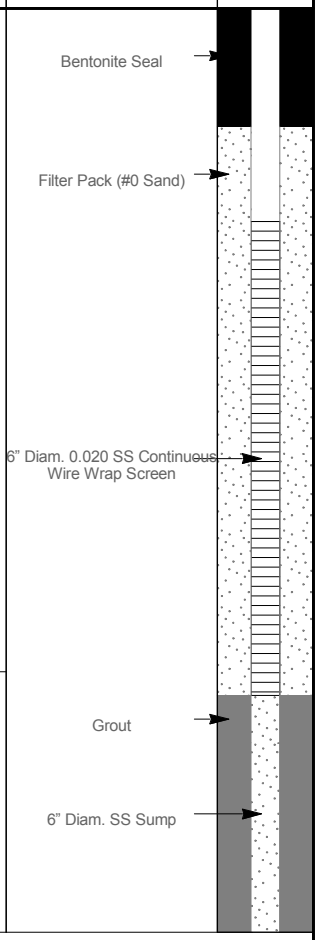
(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW12

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686692.6 **Easting:** 649244.2	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
28	NA	NA			SP	27.0 SILTY fine SAND *(continued)* SILTY fine SAND, heavily tar coated bands
30						
32						
34						34.0
36	NA	NA				SILTY fine SAND, tar saturated
38						
40						40.5
42	NA	NA			CL	CLAY
44						
46						46.0



End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring log PDI-3 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.7	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24						25.0		
26	NA	NA			SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW13

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686675.7 **Easting:** 649250.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.7	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	27.0 SILTY fine SAND *(continued)* Silty fine SAND, heavily tar coated	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32						32.0 SILTY fine SAND, tar saturated		
34								
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0 SILTY fine SAND		
	NA	NA				41.0		
42					CL	CLAY	Grout	
44	NA	NA					6" Diam. SS Sump	
46						46.0		

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-3 and PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.0	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8							Bentonite Seal	
10	NA	NA			FILL			
12								
14							Filter Pack (#0 Sand)	
16								
16.5						FILL material, tar saturated		
18	NA	NA				18.0	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
20						PEAT/organic material		
22	NA	NA			PT		6" Diam. Sch. 40 PVC Riser	
24							Bentonite Seal	
25.0						SILTY fine SAND		
26	NA	NA			SP	26.0		
						SILTY fine SAND, tar coated, few bands of tar saturation		

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW14

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686658.8 **Easting:** 649255.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.0	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30	NA	NA					Filter Pack (#0 Sand)	
32						32.0 SILTY fine SAND, tar saturated		
34					SP			
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40	NA	NA				39.0 SILTY fine SAND 40.0		
42						CLAY	Grout	
44	NA	NA			CL		6" Diam. SS Sump	
						45.0		

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-4 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.3	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8								
10	NA	NA			FILL			
12							Bentonite Grout	
14								
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24						25.0		
26					SP	SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW15

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686647.4 **Easting:** 649270.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.3	**Well Screen Interval (ft bgs):** 30-40
Start Date: 3/19/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/19/2013	**Borehole Diameter:**	**Total Depth (ft):** 45.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated *(continued)*	Bentonite Seal	
30						30.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
32								
34					SP			
36	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40						40.0		
42	NA	NA			CL	CLAY	Grout	
44						45.0	6" Diam. SS Sump	

End of boring at 45.0 ft. bgs.

Remarks: Boring Terminated (ft): 45.0

See boring log PDI-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW16

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 30-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material, lots of brick from 10 to 15 ft bgs		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12							Bentonite Grout	
14								
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24								
25.0								
26	NA	NA			OH	CLAY with organics	Bentonite Seal	

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

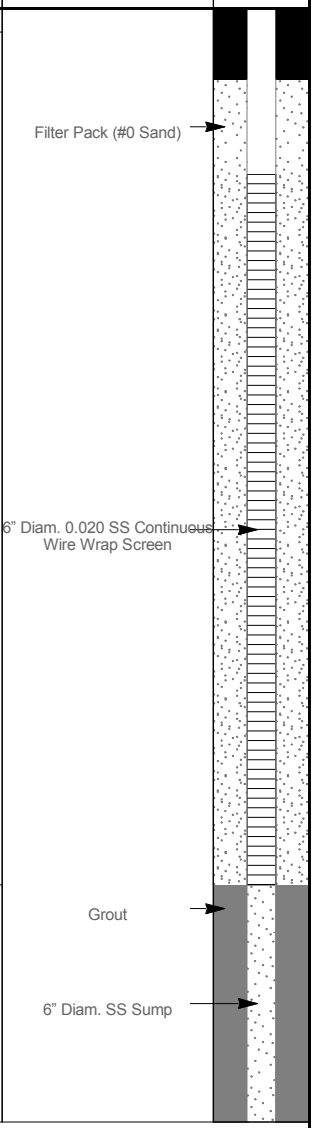
BORING #: RW16

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686653.4 **Easting:** 649286.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 30-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
					OH	27.0 CLAY with organics *(continued)*
28	NA	NA				SILTY fine SAND, tar coated bands
30						30.0
32	NA	NA				SILTY fine SAND, tar saturated
34	NA	NA				32.0 SILTY fine SAND, tar coated
36					SP	35.0 SILTY fine SAND, tar saturated
38	NA	NA				
40						40.0
42	NA	NA				SILTY fine SAND, tar saturated pockets of SAND
44						
46	NA	NA			CL	45.0 CLAY
48						
50						50.0

End of boring at 50.0 ft. bgs.

Well Construction Details



Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-5 and SB-12B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						Fill material, some brick fragments and glass.		
4								
6					Fill		6" Diam. Sch. 40 PVC Riser	
8								
10								
11.0								
12						Sandy Silt, grey to black, fine grained, some coarse to fine gravel.	Bentonite Grout	
14	NA	NA			ML			
15.0								
16						Fibrous and Friable Peat		
18								
20								
22					PT			
24							Bentonite Seal	
26								
26.0								
	NA	NA			SP	SAND, tar saturated/Sand tar coated		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SAND, tar saturated/Sand tar coated *(continued)*	Filter Pack (#0 Sand)	
30								
32								
34								
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
42	NA	NA				43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14								
16							Bentonite Grout →	
18							6" Diam. Sch. 40 PVC Riser →	
19.0						FILL, NAPL coated, tar staining at 19 ft bgs		
20	NA	NA						
21.0						PEAT/organic material		
22								
24	NA	NA			PT			
26								
26.0						SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW18

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686542.2 **Easting:** 649232.4	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/14/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/15/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						PEAT/organic material *(continued)*		
30	NA	NA						
32							Bentonite Seal	
						33.0 SILTY fine SAND, heavily tar coated pockets of SAND		
34							Filter Pack (#0 Sand)	
36	NA	NA			PT			
38								
40						40.0 SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42	NA	NA						
44								
						45.0 Gray CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.8	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA						
10					FILL			
12								
14								
15.0						FILL material, tar coated		
16							Bentonite Grout	
18	NA	NA						
20								
20.0						PEAT/organic material		
22								
24	NA	NA			PT			
26								

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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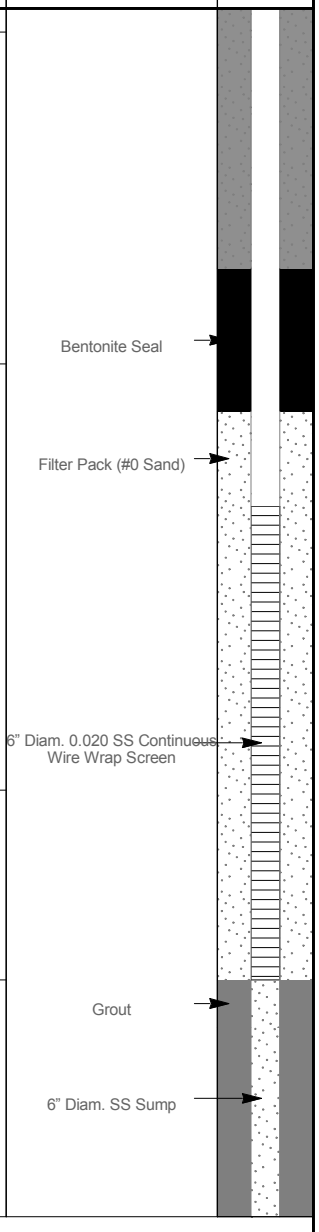
Boring and Well Construction Log

BORING #: RW19

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686535.0 **Easting:** 649213.8	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.8	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
					PT	27.0 PEAT/organic material *(continued)*
28						SILTY fine SAND
30	NA	NA			SP	
32						
34						34.0
36						CLAY/SILT
38	NA	NA			CL	
40						
42						43.0
44						SILTY fine SAND, tar saturated
46	NA	NA			SP	
48						47.0
50	NA	NA			CL	CLAY
52						52.0

End of boring at 52.0 ft. bgs.



Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-6, PDI-8, and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.8	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0	NA	NA			Concrete	Approximately 1 foot of CONCRETE		
						1.0 FILL material		
2								
4								
6								
8	NA	NA						
10					FILL			
12								
14								
						15.0 FILL material, tar saturated	Bentonite Grout →	
16	NA	NA				16.0 FILL material		
18	NA	NA					6" Diam. Sch. 40 PVC Riser →	
	NA	NA				18.0 FILL material, heavily tar coated		
						19.0		
20						PEAT/organic material		
22								
24	NA	NA			PT			
26								

Remarks: Boring Terminated (ft): 51.0

See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW2

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686651.6 **Easting:** 649130.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.8	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*		
						28.0		
30	NA	NA			SP	SILTY fine SAND		
						30.0		
32	NA	NA			ML-CL	SILT/CLAY	Bentonite Seal	
34						34.5		
	NA	NA				35.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
36	NA	NA				SILTY fine SAND		
						36.5		
38						SILTY fine SAND, tar saturated		
40					SP			
42	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
44								
46						46.0		
48	NA	NA			CL	CLAY	Grout	
50							6" Diam. SS Sump	
						51.0		

End of boring at 51.0 ft. bgs.

Remarks: Boring Terminated (ft): 51.0

See boring log SB-29/MW-15B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.0	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14								
16							Bentonite Grout	
18								
19.0						FILL material, tar coated		
20	NA	NA						
21.0						PEAT/organic material		
22								
24					PT			
26	NA	NA						

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW20

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686528.5 **Easting:** 649194.6	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.0	**Well Screen Interval (ft bgs):** 37-47
Start Date: 3/15/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/16/2013	**Borehole Diameter:**	**Total Depth (ft):** 52.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*		
30						30.0		
32	NA	NA				SILTY fine SAND		
34							Bentonite Seal	
36							Filter Pack (#0 Sand)	
38					SP	37.0 SILTY fine SAND, tar saturated		
40								
42	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
44								
46								
48						47.0 CLAY	Grout	
50	NA	NA			CL		6" Diam. SS Sump	
52						52.0		

End of boring at 52.0 ft. bgs.

Remarks: Boring Terminated (ft): 52.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8	NA	NA			FILL			
10								
12								
14								
16							Bentonite Grout	
						16.0		
	NA	NA				FILL material, tar coated		
						17.0		
18	NA	NA				FILL material, tar saturated		
						18.0		
20						PEAT/organic material		
22	NA	NA			PT			
24								
26								
						26.0		
					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW21

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686522.0 **Easting:** 649175.7	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 13.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30								
32	NA	NA					Bentonite Seal	
34							Filter Pack (#0 Sand)	
36					SP			
38								
						39.0 SILTY fine SAND, tar saturated		
40							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42	NA	NA						
44								
						45.0 CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
	NA	NA				Concrete		
						1.0 FILL material		
2								
	NA	NA						
4						4.0 Concrete slab		
	NA	NA				5.0 FILL material	6" Diam. Sch. 40 PVC Riser →	
6								
8								
10					FILL			
12	NA	NA						
							Bentonite Grout →	
14								
16								
18						18.0		
	NA	NA				FILL material, tar coated		
20						20.0		
22						PEAT/organic material		
	NA	NA			PT			
24						25.0		
26					SP	SILTY fine SAND, bands of tar coating/staining		

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW22

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 31-41
Start Date: 3/16/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 46.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND, bands of tar coating/staining *(continued)*	Bentonite Seal	
30							Filter Pack (#0 Sand)	
32								
34								
35.0								
36	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
41.0								
42	NA	NA			CL	CLAY	Grout	
44							6" Diam. SS Sump	
46								
46.0								

End of boring at 46.0 ft. bgs.

Remarks: Boring Terminated (ft): 46.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 24-39
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						Concrete		
2	NA	NA						
						2.0 FILL material		
4	NA	NA						
						4.0 Concrete slab		
	NA	NA					6" Diam. Sch. 40 PVC Riser	
6								
8								
10					FILL		Bentonite Grout	
12	NA	NA						
14								
16								
18								
20						20.0		
						PEAT/organic material	Bentonite Seal	
22	NA	NA			PT			
24							Filter Pack (#0 Sand)	
						25.0		
26					SP	SILTY fine SAND, tar saturated		

Remarks: Boring Terminated (ft): 44.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW23

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** **Easting:**	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:**	**Well Screen Interval (ft bgs):** 24-39
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 44.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar saturated *(continued)*		
30						30.0 SILTY fine SAND		
32	NA	NA			SP		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
34								
36	NA	NA				35.0 SILTY fine SAND, tar saturated		
38						39.0		
40	NA	NA			CL	CLAY	Grout	
42							6" Diam. SS Sump	
44						44.0		

End of boring at 44.0 ft. bgs.

Remarks: Boring Terminated (ft): 44.0

See boring logs PDI-8 and SB-21 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 31-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18								
20								
	NA	NA				20.5 21.0 FILL material, heavily tar coated		
22						PEAT/organic material		
24					PT			
26	NA	NA						

Remarks: Boring Terminated (ft): 53.0

See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW3

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686627.3 **Easting:** 649138.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 11.7	**Well Screen Interval (ft bgs):** 31-46
Start Date: 3/17/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/17/2013	**Borehole Diameter:**	**Total Depth (ft):** 53.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28					PT	PEAT/organic material *(continued)*	Bentonite Seal	
30						30.0	Filter Pack (#0 Sand)	
32	NA	NA			SP	SILTY fine SAND 32.0		
	NA	NA				32.5 SILTY fine SAND, tar saturated		
	NA	NA				33.0 SILTY fine SAND		
34	NA	NA			ML-CL	SILT/CLAY		
36						36.0		
	NA	NA			SP	SILTY fine SAND 37.0		
38	NA	NA				SILTY fine SAND, tar saturated	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42						41.5		
	NA	NA			SC	Interbedded SANDY CLAY unit, tar saturated 43.0		
44	NA	NA			CL	CLAY		
46	NA	NA			SP	45.0 SILTY fine SAND, tar saturated 46.0		
48						CLAY	Grout	
50	NA	NA			CL		6" Diam. SS Sump	
52						53.0		

End of boring at 53.0 ft. bgs.

Remarks: Boring Terminated (ft): 53.0

See boring logs SB-29/MW-15B and SB-9 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							Bentonite Seal	
8							6" Diam. Sch. 40 PVC Riser	
10	NA	NA			FILL			
12								
14								
16							Filter Pack (#0 Sand)	
18								
20						20.0	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
	NA	NA				FILL material, tar saturated 21.0		
22						PEAT/organic material		
24	NA	NA			PT		6" Diam. Sch. 40 PVC Riser	
26						26.0		
					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 51.0

See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW4

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686560.2 **Easting:** 649162.3	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 36-46
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30								
32								
34							Filter Pack (#0 Sand)	
36								
38	NA	NA			CL	37.0 CLAY		
40	NA	NA			SP	39.0 SILTY fine SAND	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42								
44	NA	NA				44.0 SILTY fine SAND, tar saturated		
46	NA	NA			CL	46.0 CLAY	Grout	
48								
50	NA	NA				51.0	6" Diam. SS Sump	

End of boring at 51.0 ft. bgs.

Remarks: Boring Terminated (ft): 51.0

See boring log SB-5 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18						18.0		
20	NA	NA				FILL material, tar coated, coal from 19 -21 ft bgs		
22						21.0		
24					PT	PEAT/organic material		
26	NA	NA						

Remarks: Boring Terminated (ft): 51.0

See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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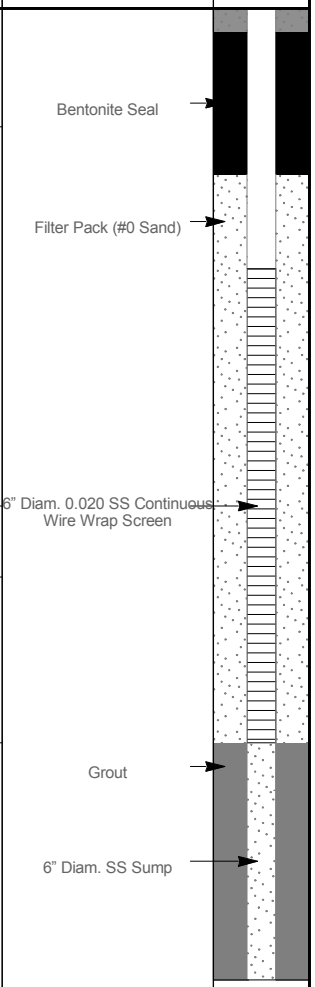
AECOM Boring and Well Construction Log

BORING #: RW5

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686541.0 **Easting:** 649169.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.6	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/21/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/21/2013	**Borehole Diameter:**	**Total Depth (ft):** 51.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS
28					PT	PEAT/organic material *(continued)*
						29.0
30	NA	NA				SILTY fine SAND
32						32.0
34	NA	NA			SP	SILTY fine SAND, streaks of tar staining and tar coating
						35.0
36	NA	NA				SILTY fine SAND
						37.0
38	NA	NA			CL	CLAY
						38.5
40	NA	NA			SP	SILTY fine SAND, pockets of tar coating/saturation
42						42.0
44	NA	NA			CL	CLAY
46						
48						
50						
						51.0

End of boring at 51.0 ft. bgs.



Remarks: Boring Terminated (ft): 51.0

See boring logs SB-5, SB-21, and PDI-8 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material		
2								
4								
6							6" Diam. Sch. 40 PVC Riser	
8							Bentonite Seal	
10	NA	NA			FILL			
12								
14								
16							Filter Pack (#0 Sand)	
18						18.0		
	NA	NA				FILL material, tar saturated		
20						19.0 PEAT/organic material	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
22	NA	NA			PT			
24						24.0		
	NA	NA				SILTY fine SAND, tar coated	6" Diam. Sch. 40 PVC Riser	
26					SP	25.0 SILTY fine SAND, tar coated		

Remarks: Boring Terminated (ft): 47.0

See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW6

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686749.6 **Easting:** 649175.5	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 32-42
Start Date: 3/20/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/20/2013	**Borehole Diameter:**	**Total Depth (ft):** 47.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, tar coated *(continued)*	Bentonite Seal	
30						30.0 SILTY fine SAND		
32	NA	NA				32.0 SILTY fine SAND, tar saturated	Filter Pack (#0 Sand)	
34					SP			
36								
38	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42						42.0		
44	NA	NA			CL	CLAY	Grout	
46						47.0	6" Diam. SS Sump	

End of boring at 47.0 ft. bgs.

Remarks: Boring Terminated (ft): 47.0

See boring log PDI-1 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2						FILL material		
4								
6							6" Diam. Sch. 40 PVC Riser	
8								
10	NA	NA			FILL			
12								
14							Bentonite Grout	
16								
18								
20						20.0		
22	NA	NA			PT	PEAT/organic material		
24						25.0		
26					SP	SILTY fine SAND, 1" tar saturated layer at 28 ft bgs		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW7

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686760.4 **Easting:** 649200.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA				SILTY fine SAND, 1" tar saturated layer at 28 ft bgs *(continued)*		
30						30.0 SILTY fine SAND	Bentonite Seal	
32	NA	NA					Filter Pack (#0 Sand)	
34						33.0 SILTY fine SAND, tar saturated		
36					SP			
38	NA	NA					6" Diam. 0.020 SS Continuous Wire Wrap Screen	
40								
42								
43						43.0 CLAY		
44							Grout	
46	NA	NA			CL		6" Diam. SS Sump	
48								
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-1 and PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2	NA	NA			FILL	FILL material	6" Diam. Sch. 40 PVC Riser	
4								
6								
8								
10								
12							Bentonite Grout	
14								
16								
18						18.0		
20	NA	NA			PT	PEAT/organic material, 2" tar saturated layer 18 ft bgs		
22								
24						25.0		
26					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Boring and Well Construction Log

BORING #: RW8

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686765.5 **Easting:** 649218.0	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.3	**Well Screen Interval (ft bgs):** 33-43
Start Date: 3/23/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/24/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28	NA	NA			SP	SILTY fine SAND *(continued)*	Bentonite Seal	
30								
32							Filter Pack (#0 Sand)	
34								
36	NA	NA				35.0 SILTY fine SAND, bands of tar saturation	6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40	NA	NA						
42						43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-2 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0						FILL material	6" Diam. Sch. 40 PVC Riser	
2								
4								
6								
8	NA	NA			FILL			
10								
12								
14								
16						16.0	Bentonite Grout	
	NA	NA				FILL material, tar stained		
18						17.0		
	NA	NA				FILL material, tar saturated 18.5 to 19 ft bgs		
20						19.0		
						PEAT/organic material		
22	NA	NA			PT			
24								
						25.0		
26					SP	SILTY fine SAND		

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW9

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Steve Wright
Project: Equity Former MGP Site	**Northing:** 686743.6 **Easting:** 649227.1	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 10.2	**Well Screen Interval (ft bgs):** 35-45
Start Date: 3/18/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 3/18/2013	**Borehole Diameter:**	**Total Depth (ft):** 50.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
28						SILTY fine SAND *(continued)*		
30	NA	NA						
32					SP		Bentonite Seal	
34							Filter Pack (#0 Sand)	
						35.0		
36	NA	NA				SILTY fine SAND, tar saturated		
						37.0		
38						Interbedded SAND and silt, tar saturated		
40	NA	NA			SM		6" Diam. 0.020 SS Continuous Wire Wrap Screen	
42								
44						44.5		
						CLAY		
46							Grout	
48	NA	NA			CL		6" Diam. SS Sump	
50						50.0		

End of boring at 50.0 ft. bgs.

Remarks: Boring Terminated (ft): 50.0

See boring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
0								
2					Fill	Fill material, some brick fragments and glass.	6" Diam. Sch. 40 PVC Riser	
4								
6								
8								
10								
11.0								
12	NA	NA			ML	Sandy Silt, grey to black, fine grained, some coarse to fine gravel.	Bentonite Grout	
14								
15.0								
16	NA	NA			PT	Fibrous and Friable Peat		
18								
20								
22								
24							Bentonite Seal	
26								
26.0								

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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(Continued Next Page)

AECOM Boring and Well Construction Log

BORING #: RW17

Client: National Grid	**Location:** 300 Maspeth Ave, Brooklyn, NY	**Logged By:** Kristen Durocher
Project: Equity Former MGP Site	**Northing:** 686548.9 **Easting:** 649253.9	**Drilling Company:** Boart Long Year
Project #: 60137362	**Ground Elevation:** 12.4	**Well Screen Interval (ft bgs):** 28-43
Start Date: 4/8/2013	**Drilling Method:** Roto-Sonic	**Water Level (ft):** NA
Finish Date: 4/10/2013	**Borehole Diameter:**	**Total Depth (ft):** 48.0

Depth (ft bgs)	Recovery Length (%)	PID (ppm)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	Well Construction Details	Well Construction
26								
28	NA	NA			SP	SAND, tar saturated/Sand tar coated	Filter Pack (#0 Sand)	
30								
32								
34								
36							6" Diam. 0.020 SS Continuous Wire Wrap Screen	
38								
40								
42	NA	NA				43.0		
44	NA	NA			CL	CLAY	Grout	
46							6" Diam. SS Sump	
48						48.0		

End of boring at 48.0 ft. bgs.

Remarks: Boring Terminated (ft): 48.0

See boring log PDI-6 for local/adjacent geologic descriptions.

NA - Not Applicable / SAA - Same as Above / bgs - below ground surface

Ground surface elevation referenced to the Brooklyn Highway Datum.

Northing and Easting coordinates referenced to New York State Plane NAD83 East.

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Appendix B

Air Monitoring Data

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
3/10/2013	8:00	0.1	0.078	0	0.1	0.162	0.1	0.084
3/10/2013	8:20	0.1	0.091	0	0.1	0.148	0.1	0.057
3/10/2013	8:40	0	0.157	0	0.3	0.169	0.3	0.012
3/10/2013	8:55	0.1	0.096	0	0.3	0.16	0.2	0.064
3/10/2013	9:10	0	0.116	0	0.3	0.136	0.3	0.02
3/10/2013	9:30	0.1	0.075	0	0.3	0.056	0.2	-0.019
3/10/2013	9:45	0.1	0.072	0	0.3	0.129	0.2	0.057
3/10/2013	10:00	0	0.077	0	0.1	0.079	0.1	0.002
3/10/2013	10:15	0	0.081	0	0	0.089	0	0.008
3/10/2013	10:45	0	0.098	0	0	0.106	0	0.008
3/10/2013	11:10	0	0.132	0	0	0.109	0	0.109
3/10/2013	11:15	0	0.141	0	0	0.81	0	0.669
3/10/2013	11:32	0	0.119	0	0	0.85	0	0.731
3/12/2013	7:15	0	n/a	0	0	0.017	0	0.017
3/12/2013	7:30	0	n/a	0	0	0.027	0	0.027
3/12/2013	7:48	0	n/a	0	0	0.021	0	0.021
3/12/2013	8:10	0	n/a	0	0	0.024	0	0.024
3/12/2013	8:40	0	n/a	0	0	0.028	0	0.028
3/12/2013	9:00	0	n/a	0	0.2	0.025	0.2	0.025
3/12/2013	9:15	0	n/a	0	0.2	0.024	0.2	0.024
3/12/2013	9:35	0	n/a	0	0.2	0.032	0.2	0.032
3/12/2013	10:00	0.2	n/a	0	0	0.029	0.2	0.029
3/12/2013	10:15	0.2	n/a	0	0	0.03	0.2	0.03
3/12/2013	10:34	0.3	n/a	0	0	0.027	0.3	0.027
3/12/2013	10:57	0.2	n/a	0	0	0.014	0.2	0.014
3/12/2013	11:11	0.1	n/a	n/a	n/a	n/a	0.1	
3/13/2013	7:20	0	0.083	0	0	0.088	0	0.005
3/13/2013	7:40	0	0.068	0	0	0.107	0	0.039
3/13/2013	8:05	0	0.061	0	0	0.074	0	0.013
3/13/2013	8:25	0	0.066	0	0	0.089	0	0.023
3/13/2013	8:45	0	0.061	0	0	0.112	0	0.051
3/13/2013	9:05	0	0.054	0	0	0.178	0	0.124
3/13/2013	9:25	0	0.062	0	0	0.076	0	0.014
3/13/2013	9:50	0	0.068	0	0	0.073	0	0.005
3/13/2013	10:10	0	0.074	0	0.3	0.069	0.3	0.069
3/13/2013	10:35	0	0.05	0.3	0.2	0.092	0.2	0.042
3/13/2013	11:00	0	0.052	0.4	0	0.108	0	0.056
3/13/2013	11:25	0	0.059	0.4	0.1	0.087	0.1	0.028
3/13/2013	11:42	0	0.104	0.3	0.3	0.061	0.3	0.061
3/13/2013	12:00	0	0.078	0.3	0.3	0.104	0.3	0.026
3/13/2013	12:30	0	0.067	0.4	0.5	0.177	0.5	0.11
3/14/2013	9:10	0.2	0.029	0	0	0.024	0.2	0.024
3/14/2013	9:30	0.2	0.024	0	0	0.028	0.2	0.004
3/14/2013	9:50	0.2	0.056	0	0	0.029	0.2	0.029
3/14/2013	10:10	0.2	0.051	0	0	0.068	0.2	0.017
3/14/2013	10:34	0.2	0.059	0	0	0.072	0.2	0.013
3/14/2013	11:00	0.2	0.082	0	0	0.099	0.2	0.017
3/14/2013	11:20	0.3	0.033	0	0	0.061	0.3	0.028
3/14/2013	11:42	0.2	0.047	0	0	0.053	0.2	0.006
3/14/2013	12:05	0.2	0.036	0	0	0.05	0.2	0.014
3/14/2013	12:25	0.4	0.031	0	0	0.087	0.4	0.056
3/14/2013	12:40	0.3	0.033	0	0	0.057	0.3	0.024
3/14/2013	13:00	0.3	0.049	0	0	0.066	0.3	0.017
3/14/2013	13:20	0.2	0.043	0	0	0.064	0.2	0.021
3/23/2013	8:10	0.2	0.065	0	0	0.06	0.2	0.06
3/23/2013	8:25	0.2	0.054	0	0	0.07	0.2	0.016
3/23/2013	8:40	0.3	0.075	0	0	0.052	0.3	0.052
3/23/2013	9:00	0.3	0.074	0	0	0.058	0.3	0.058
3/23/2013	9:18	0.3	0.051	0	0	0.046	0.3	0.046
3/23/2013	9:34	0.2	0.071	0	0	0.153	0.2	0.082
3/23/2013	9:47	0.2	0.018	0	0	0.155	0.2	0.137
3/23/2013	10:05	0.3	0.002	0	0	0.118	0.3	0.116
3/23/2013	10:20	0.3	0.131	0	0	0.155	0.3	0.024
3/23/2013	10:37	0.4	0.03	0	0	0.123	0.4	0.093
3/23/2013	10:55	0.3	0.143	0	0	0.12	0.3	0.12
3/23/2013	11:10	0.3	0.094	0	0	0.12	0.3	0.026
3/23/2013	11:30	0.3	0.055	0	0	0.096	0.3	0.041
3/23/2013	11:46	0.4	0.043	0	0	0.135	0.4	0.092
3/23/2013	12:00	0.3	0.02	0	0	0.108	0.3	0.088

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
3/23/2013	12:15	0.3	0.022	0	0	0.111	0.3	0.089
3/23/2013	12:30	0.3	0.028	0	0	0.157	0.3	0.129
3/23/2013	12:45	0.3	0.036	0	0	0.092	0.3	0.056
3/23/2013	13:00	0.4	0.339	0	0	0.171	0.4	0.171
3/23/2013	13:17	0.4	0.01	0	0	0.32	0.4	0.31
3/23/2013	13:32	0.3	0.16	0	0	0.087	0.3	0.087
3/23/2013	13:48	0.3	0.052	0	0	0.158	0.3	0.106
3/23/2013	14:00	0.3	0.147	0	0	0.12	0.3	0.12
3/23/2013	14:15	0.3	0.017	0	0	0.118	0.3	0.101
3/23/2013	14:30	0.3	0	0	0	0.15	0.3	0.15
3/23/2013	14:50	0.3	0.002	0	0	0.116	0.3	0.114
3/28/2013	7:30	0	0.161	0	0.2	0.083	0.2	0.083
3/28/2013	7:45	0	0.158	0	0.3	0.078	0.3	0.078
3/28/2013	8:00	0	0.144	0	0.3	0.086	0.3	0.086
3/28/2013	8:15	0	0.103	0	0.3	0.81	0.3	0.707
3/28/2013	8:30	0	0.115	0	0	0.076	0	0.076
3/28/2013	8:47	0	0.107	0	0.1	0.053	0.1	0.053
3/28/2013	9:05	0	0.99	0	0	0.089	0	0.089
3/28/2013	9:30	0	0.83	0	0.1	0.093	0.1	0.093
3/28/2013	9:53	0	0.113	0	0	0.117	0	0.004
3/28/2013	10:10	0	0.107	0	0	0.053	0	0.053
3/28/2013	10:15	0.1	0.121	0	0	0.062	0.1	0.062
3/28/2013	10:37	0	0.139	0	0	0.079	0	0.079
3/28/2013	11:00	0.1	0.143	0	0.1	0.63	0	0.487
3/29/2013	10:10	0.3	0.136	0	0	0.008	0.3	0.008
3/29/2013	10:25	0.2	0.131	0	0	0.023	0.2	0.023
3/29/2013	10:40	0.2	0.144	0	0	0.127	0.2	0.127
3/29/2013	10:58	0	0.108	0	0	0.016	0	0.016
3/29/2013	11:15	0.3	0.099	0	0	0.009	0.3	0.009
3/29/2013	11:30	0.2	0.089	0	0	0.014	0.2	0.014
3/29/2013	11:47	0.2	0.122	0	0	0.027	0.2	0.027
3/29/2013	12:05	0.2	0.104	0	0	0.031	0.2	0.031
3/30/2013	6:50	0	0.101	0	0	0.089	0	0.089
3/30/2013	7:05	0	0.153	0	0	0.096	0	0.096
3/30/2013	7:22	0	0.044	0	0.1	0.117	0.1	0.073
3/30/2013	7:37	0.1	0.116	0	0	0.033	0.1	0.033
3/30/2013	7:52	0	0.121	0	0	0.052	0	0.052
3/30/2013	8:08	0.1	0.108	0	0	0.162	0.1	0.054
3/30/2013	8:25	0.2	0.113	0	0	0.073	0.2	0.073
3/30/2013	8:55	0.3	0.134	0	0	0.094	0.3	0.094
3/30/2013	9:20	0.3	0.159	0	0	0.111	0.3	0.111
3/30/2013	9:50	0.3	0.0171	0	0	0.073	0.3	0.0559
3/30/2013	10:17	0.3	0.062	0	0	0.092	0.3	0.03
3/30/2013	10:38	0.4	0.054	0	0	0.127	0.4	0.073
3/30/2013	11:00	0.3	0.067	0	0	0.134	0.3	0.067
3/30/2013	11:20	0.4	0.073	0	0	0.125	0.4	0.052
3/30/2013	11:43	0.4	0.061	0	0	0.116	0.4	0.055
3/30/2013	12:00	0.3	0.068	0	0	0.132	0.3	0.064
4/1/2013	7:05	0	n/a	0	0	0.034	0	0.034
4/1/2013	7:25	0	n/a	0	0	0.045	0	0.045
4/1/2013	7:45	0.1	n/a	0	0	0.053	0.1	0.053
4/1/2013	8:05	0.2	0.137	0	0	0.038	0.2	0.038
4/1/2013	8:28	0.2	0.141	0	0	0.136	0.2	0.136
4/1/2013	8:46	0.3	0.142	0	0	0.139	0.3	0.139
4/1/2013	9:10	0.3	0.145	0	0	0.127	0.3	0.127
4/1/2013	9:30	0.3	0.108	0	0	0.11	0.3	0.002
4/1/2013	9:48	0.4	0.197	0	0	0.244	0.4	0.047
4/1/2013	10:08	0.4	0.151	0	0	0.278	0.4	0.127
4/1/2013	10:20	0.2	0.088	0	0	0.157	0.2	0.069
4/1/2013	11:00	0.3	0.091	0	0	0.141	0.3	0.05
4/1/2013	11:23	0.2	0.077	0	0	0.627	0.2	0.55
4/1/2013	11:45	0.2	0.081	0	0	0.148	0.2	0.067
4/1/2013	12:02	0.1	0.07	0	0	0.203	0.1	0.133
4/2/2013	7:45	0	0.061	0	0	0.08	0	0.019
4/2/2013	8:02	0	0.059	0	0	0.078	0	0.019
4/2/2013	8:20	0	0.065	0	0	0.082	0	0.017
4/2/2013	8:38	0	0.07	0	0	0.09	0	0.02
4/2/2013	8:56	0	0.098	0	0	0.133	0	0.035
4/2/2013	9:12	0.1	0.0186	0	0	0.169	0.1	0.1504

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
4/2/2013	9:30	0	0.193	0	0.2	0.213	0.2	0.02
4/2/2013	10:00	0	0.25	0	0.2	0.251	0.2	0.001
4/2/2013	10:16	0.3	0.083	0	0	0.122	0.3	0.039
4/2/2013	10:34	0.5	0.211	0	0	0.118	0.5	0.118
4/2/2013	11:00	0.4	0.233	0	0	0.123	0.4	0.123
4/2/2013	11:22	0.4	0.204	0	0	0.11	0.4	0.11
4/2/2013	11:40	0.3	0.237	0	0	0.116	0.3	0.116
4/3/2013	6:50	0	0.082	0	0	0.087	0	0.005
4/3/2013	7:10	0	0.075	0	0	0.089	0	0.014
4/3/2013	7:25	0	0.033	0	0	0.156	0	0.123
4/3/2013	8:37	0.6	0.119	0	0.1	0.108	0.6	0.108
4/3/2013	9:15	0.6	0.123	0	0.1	0.108	0.6	0.108
4/3/2013	9:45	0.5	0.138	0	0.1	0.144	0.5	0.006
4/3/2013	10:20	0.6	0.166	0	0.1	0.114	0.6	0.114
4/3/2013	11:30	0.6	0.155	0	0.1	0.123	0.6	0.123
4/4/2013	8:00	0	0.082	0	0	0.129	0	0.047
4/4/2013	8:30	0	0.099	0	0	0.117	0	0.018
4/4/2013	9:00	0.1	0.274	0	0	0.223	0.1	0.223
4/4/2013	9:30	0	0.141	0	0	0.105	0	0.105
4/4/2013	10:15	0	0.095	0	0	0.084	0	0.084
4/4/2013	11:00	0	0.9	0	0	0.93	0	0.03
4/4/2013	11:30	0	0.082	0	0	0.174	0	0.092
4/4/2013	11:55	0	0.081	0	n/a	n/a	0	
4/5/2013	7:25	0	0.133	0	0	0.157	0	0.024
4/5/2013	7:50	0	0.123	0	0	0.164	0	0.041
4/5/2013	8:10	0	0.085	0	0	0.079	0	0.079
4/5/2013	8:30	0	0.093	0	0	0.2	0	0.107
4/5/2013	8:47	0	0.082	0	0	0.167	0	0.085
4/5/2013	9:20	0	0.091	0	0	0.171	0	0.08
4/5/2013	9:50	0	0.121	0	0	0.203	0	0.082
4/5/2013	10:10	0	0.194	0	0	0.132	0	0.132
4/5/2013	10:30	0	0.136	0	0	0.157	0	0.021
4/5/2013	10:48	0	0.147	0	0	0.166	0	0.019
4/5/2013	11:04	0	0.153	0	0	0.181	0	0.028
4/5/2013	11:20	0	0.119	0	0	0.202	0	0.083
4/5/2013	11:45	0	0.103	0	0	0.133	0	0.03
4/5/2013	12:00	0	0.159	0	0	0.211	0	0.052
4/5/2013	12:23	0	0.167	0	0	0.208	0	0.041
4/5/2013	12:48	0	0.178	0	0	0.202	0	0.024
4/5/2013	13:10	0	0.115	0	0	0.171	0	0.056
4/5/2013	13:25	0	0.128	0	0	0.14	0	0.012
4/11/2013	11:00	0.1	0.029	0	0	0.038	0.1	0.009
4/11/2013	11:15	0	0.03	0	0	0.039	0	0.009
4/11/2013	11:30	0	0.041	0	0.1	0.043	0.1	0.002
4/11/2013	11:45	0	0.026	0	0.1	0.028	0.1	0.002
4/11/2013	12:02	0	0.023	0	0.1	0.028	0.1	0.005
4/11/2013	12:20	0	0.026	0	0.1	0.031	0.1	0.005
4/11/2013	12:36	0	0.025	0	0.1	0.03	0.1	0.005
4/11/2013	14:00	0	0.031	0	0.1	0.042	0.1	0.011
4/11/2013	13:22	0	0.033	0	0.1	0.041	0.1	0.008
4/13/2013	6:50	0	NM	NM	0.5	NM	0.5	
4/13/2013	7:40	0	0.028	NM	0.3	0.007	0.3	0.007
4/13/2013	8:03	0	0.1	NM	0	0.01	0	0.01
4/13/2013	9:00	0.3	0.056	NM	0	0.035	0.3	0.035
4/13/2013	9:36	0	0.07	NM	0	0.023	0	0.023
4/13/2013	10:10	0.4	0.161	NM	0	0.043	0.4	0.043
4/13/2013	10:36	0.4	0.06	NM	0.1	0.032	0.4	0.032
4/13/2013	10:57	0.3	0.061	NM	0	0.027	0.3	0.027
4/13/2013	11:12	0.2	0.021	NM	0.4	0.028	0.2	0.007
4/13/2013	11:26	0.2	0.05	NM	0.3	0.023	0.1	0.023
4/15/2013	6:35	0	0.021	0	0	0.006	0	0.006
4/15/2013	6:52	0	0.023	0	0	0.005	0	0.005
4/15/2013	7:10	0.1	0.027	0	0.1	0.008	0	0.008
4/15/2013	7:32	0.1	0.049	0	0.1	0.017	0	0.017
4/15/2013	7:53	0.1	0.025	0	0.2	0.007	0.1	0.007
4/15/2013	8:10	0.1	0.011	0	0.2	0.013	0.1	0.002
4/15/2013	8:30	0.1	0.013	0	0.2	0.01	0.1	0.01
4/15/2013	8:55	0.1	0.017	0	0.2	0.008	0.1	0.008
4/15/2013	9:20	0.1	0.012	0	0.2	0.011	0.1	0.011

Table B-1
Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m^3)	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m^3)	Corrected PID (ppm)	Corrected Dust (mg/m^3)
4/15/2013	9:38	0	0.012	0	0.2	0.009	0.2	0.009
4/15/2013	10:03	0	0.01	0	0.2	0.008	0.2	0.008
4/15/2013	10:25	0	0.007	0	0.2	0.009	0.2	0.002
4/15/2013	10:42	0	0.013	0	0.2	0.009	0.2	0.009
4/15/2013	11:00	0	0.014	0	0.2	0.008	0.2	0.008
4/15/2013	11:17	0	0.018	0	0.2	0.008	0.2	0.008
4/15/2013	11:35	0	0.022	0	0.2	0.008	0.2	0.008
4/15/2013	12:00	0	0.015	0	0.2	0.011	0.2	0.011
4/16/2013	7:15	0	0.015	0	0.2	0.02	0.2	0.005
4/16/2013	7:32	0	0.027	0	0.2	0.01	0.2	0.01
4/16/2013	7:50	0	0.018	0	0.2	0.022	0.2	0.004
4/16/2013	8:05	0	0.02	0	0.2	0.01	0.2	0.01
4/16/2013	8:35	0	0.022	0	0.3	0.016	0.3	0.016
4/16/2013	9:00	0	0.027	0	0.3	0.017	0.3	0.017
4/16/2013	9:22	0	0.032	0	0.3	0.024	0.3	0.024
4/16/2013	9:45	0	0.02	0	0.3	0.021	0.3	0.001
4/16/2013	10:00	0	0.047	0	0.3	0.027	0.3	0.027
Average		0.127	0.096				0.172	0.063

Note: some data was not recovered due to malfunction of a data logger. Field notes indicate that results were consistent with other days with similar field activities.

Appendix C

Waste Disposal Documentation

Clean Water of New York, Inc.

Clean Water of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
Phone: 718-981-4600 Fax: 718-981-5213

JOB RECEIPT

Job Number	Date	Time	Job Type
JOB0123247	4/24/13	12:25 pm	Truck Job

Generator

NATIONAL GRID
222-254 Maspeth Avenue
Brooklyn, NY 11211
(000) 000-0000
EPA Permit #

Customer

ENVIRO TRAC LTD
5 Old Dock Road
Yaphank, NY 11980

PO #: 7278 Job #
Profile Sheet: Yes Approval Code: 1022-002

Transporter

WILLIAM J. LAUER CORP.
3249 Richmond Terrace
Staten Island, NY 10303

EPA Permit #: NYR000157644
NYS DEC Permit #: 2A-531

Transport / Vessel: VAC # 55

# of Tanks: 1
Total Capacity: 6,300
U of M: Gallons

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 5,904 Gallons Of Oily Water For Proper Treatment and Disposal.

Products & Test Results	Category	Code	Description	Quantity	UoM
	D	N018	Oily Water	5,904	Gallons

Compartment	% Water	% Oil	% Solid	Halogens (ppm)	Flash Point (oF)
1	99.00	1.00	0.00	0	>= 100

Other Tests Peformed: No

4/24/13

Receiver's Signature and Date
4/24/2013 12:21 pm

Did this load or any portion of this load orginate at a utility? Yes

Generator's Representative Signature and Date

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DC 04-11-2013 ~~N Y R 0 0 0 1 8 4 1 8 4~~

Manifest Doc. No. 123061

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	5904	Gal	EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800
YAC-55

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Mo. Day Year: 04 12 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frederico Mancino
Signature:
Mo. Day Year: 04 24 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year: 04 24 13

ORIGINAL - RETURN TO GENERATOR

Clean Water of New York, Inc.

Clean Water of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
Phone: 718-981-4600 Fax: 718-981-5213

JOB RECEIPT

Job Number	Date	Time	Job Type
JOB0123262	4/25/13	8:15 am	Truck Job

Generator

NATIONAL GRID
222-254 Maspeth Avenue
Brooklyn, NY 11211
(000) 000-0000
EPA Permit #

Customer

ENVIRO TRAC LTD
5 Old Dock Road
Yaphank, NY 11980

PO #: 7278 Job #
Profile Sheet: Yes Approval Code: 1022-002

Transporter

WILLIAM J. LAUER CORP.
3249 Richmond Terrace
Staten Island, NY 10303

EPA Permit #: NYR000157644
NYS DEC Permit #: 2A-531

Transport / Vessel: VAC # 53

# of Tanks: 1
Total Capacity: 6,300
U of M: Gallons

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 3,569 Gallons Of Oily Water For Proper Treatment and Disposal.

Products & Test Results	Category	Code	Description	Quantity	UoM
	D	N018	Oily Water	3,569	Gallons

Compartment	% Water	% Oil	% Solid	Halogens (ppm)	Flash Point (oF)
1	99.00	1.00	0.00	0	>= 100

Other Tests Peformed: No

04/25/13

Receiver's Signature and Date
4/25/2013 8:13 am

Did this load or any portion of this load orginate at a utility? Yes

Generator's Representative Signature and Date

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~NYR000184184~~ D.C 04-11-2013
Manifest Doc. No. 123062
2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)
8. US EPA ID Number
D. State Transporter's ID
E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
F. State Facility ID
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	3,569	Gal	EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c. b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 25 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GABINO VILLEGAS
Signature: Gabino Villegas
Mo. Day Year: 04 25 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year: 04 25 13

ORIGINAL - RETURN TO GENERATOR

Bayshore Recycling Corp.
75 Cyclus Mill Rd
PO Box 206
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 227583
Date: 4/24/2013
Time: 09:05:34 - 09:25:18

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 24740PC

Scale
Gross: 69120 lb In Scale 2
Tare: 29700 lb Out Scale 4
Net: 39420 lb

CUYDs: 25

Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	19.71	Tons
Brooklyn	REBAR/METAL	19.71	Tons
Brooklyn	GARBAGE *	19.71	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223330
Date: 4/16/2013
Time: 09:18:11 - 09:50:04

			Scale
Gross:	72520 lb	In	Scale 1
Tare:	27440 lb	Out	Scale 3
Net:	45080 lb		

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 25510PC

CUYDs: 25 License: 25510PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	MIXED-BRICK,BLOCK,CONCRET	22.54	Tons
Brooklyn	GARBAGE	22.54	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Andres

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223557
Date: 4/16/2013
Time: 13:18:51 - 13:30:30

			Scale
Gross:	77340 lb	In	Scale 1
Tare:	27320 lb	Out	Scale 3
Net:	50020 lb		

Customer: ENVIRO TRAC/BRC0050
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-
Truck: 25510PC

CUYDs: 25 License: 25510PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comments:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	25.01	Tons
Brooklyn	BIG PIECES OVER 2"	25.01	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223312
Date: 4/16/2013
Time: 09:10:57 - 09:37:31

		Scale
Gross:	78940 lb	In Scale 1
Tare:	27500 lb	Out Scale 4
Net:	51440 lb	

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-

Truck: 18489PC

CUYDs: 25

License: 18489PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	MIXED-BRICK,BLOCK,CONCRET	25.72	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Driver: _____

Weighmaster: Mark

Bayshore Recycling Corp.
75 Crows Mill Rd
PO Box 290
Keasbey, NJ 08832

Facility ID: 132397

Ticket: 223540
Date: 4/16/2013
Time: 13:13:49 - 13:16:18

Customer: ENVIRO TRAC/BRC0850
400 CORPORATE COURT
SUITE E
SOUTH PLAINFIELD, NJ 07080-
Truck: 18489PC

Scale
Gross: 81860 lb In Scale 1
Tare: 27500 lb P.T.
Net: 54360 lb

CUYDs: 25 License: 18489PC
Truck Type: TRIAXLE

Carrier: AJC TRUCKING INC
Comment:

Origin	Materials & Services	Quantity	Unit
Brooklyn	CONCRETE TRIAXLE	27.18	Tons
Brooklyn	BIG PIECES OVER 2'	27.18	Tons
Brooklyn	GARBAGE	27.18	Tons

THE ABOVE IS CORRECT AND NON-HAZARDOUS TO THE BEST OF MY KNOWLEDGE

Drivers: _____

Weighmaster: Alec

BAYSHORE FAMILY OF COMPANIES

Customer/Profile/Date Report

Transactions from 04/16/2013 through 05/02/2013
Inbound Tickets Only
Third Party and Intercompany Customers
Disposal Only
Full Details

Ticket	Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons
BSM0125 - AARCO ENVIRONMENTAL									
2713-284 - NATIONAL GRID FORMER MGP SITE									
04/19/2013									
225147	27CT	55058	AN828W	I	89940	29440	60500	30.25 TN	30.25
225175	27CT	55059	AN381W	I	83580	29500	54080	27.04 TN	27.04
225205	27CT	55061	AN786K	I	91320	30500	60820	30.41 TN	30.41
225232	27CT	55062	AN809P	I	84200	27240	56960	28.48 TN	28.48
225270	27CT	55060	AP191K	I	87120	29800	57320	28.66 TN	28.66
04/19/2013 *5 tickets and 5 transactions*									144.84
04/23/2013									
226767	27CT	E0134255	AN809P	I	84180	27240	56940	28.47 TN	28.47
226785	27CT	E0134254	AP414M	I	86840	28480	58360	29.18 TN	29.18
227073	27CT	E0134256	AN732R	I	88220	28940	59280	29.64 TN	29.64
227091	27CT	E0134258	AN809P	I	87000	27240	59760	29.88 TN	29.88
227094	27CT	E0134257	AP414M	I	92920	28540	64380	32.19 TN	32.19
227313	27CT	E0134259	AN732R	I	90120	28940	61180	30.59 TN	30.59
04/23/2013 *6 tickets and 6 transactions*									179.95
04/29/2013									
229622	27CT	E0134261	AN700H	I	75040	29080	45960	22.98 TN	22.98
229638	27CT	E0134262	AP414M	I	86440	28540	57900	28.95 TN	28.95
229649	27CT	E0134263	AN809P	I	89120	27240	61880	30.94 TN	30.94
229717	27CT	E0134264	AP964K	I	86700	28340	58360	29.18 TN	29.18
229889	27CT	E0134265	AN700H	I	68840	29080	39760	19.88 TN	19.88

Customer: BSM0125
Profile: 2713-284
Exclude Material: TRANS
Site ID: All

BAYSHORE FAMILY OF COMPANIES

Customer/Profile/Date Report

Transactions from 04/16/2013 through 05/02/2013
Inbound Tickets Only
Third Party and Intercompany Customers
Disposal Only
Full Details

Ticket	Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons
BSM0125 - AARCO ENVIRONMENTAL									
2713-284 - NATIONAL GRID FORMER MGP SITE									
04/29/2013									
5 tickets and 5 transactions									131.93
05/02/2013									
231490	27CT	E0134260	16429PC	I	64980	36040	28940	14.47 TN	14.47
05/02/2013									
1 ticket and 1 transaction									14.47
2713-284 - NATIONAL GRID FORMER MGP SITE									
17 tickets and 17 transactions									471.19
BSM0125 - AARCO ENVIRONMENTAL									
17 tickets and 17 transactions									471.19
Report Grand Totals									
17 tickets and 17 transactions									471.19

End of Report

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55061

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

11201 NY

4. Generator's Phone ( )

5. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number
N.Y.R.0.0.0.1.0.7.3.2.6

A. Transporter's Phone
631-586-5900

7. Transporter 2 Company Name
DI TRUCKING

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.				
b.	1	T		
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL

Signature: Donald P Campbell

Month: 04 Day: 15 Year: 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: RONILDO DESOUZA

Signature

Month: 04 Day: 15 Year: 13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55060

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

11201 NY

4. Generator's Phone ( )

5. Transporter 1 Company Name
AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number
N Y R 0 0 0 0 1 0 7 3 2 6

A. Transporter's Phone
631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	NT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL | Signature | Month 01 | Day 21 | Year 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No. NONE

Manifest Doc. No. 55059

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone

5. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number: N.Y.R.0.0.0.1.0.7.3.2.6

A. Transporter's Phone: 631-586-5900

7. Transporter 2 Company Name: NICKABELLA

8. US EPA ID Number

B. Transporter's Phone: 973-591-1778

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	IT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: DONALD P CAMPBELL | Signature | Month 4 | Day 2 | Year 13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: FABIO F. | Signature | Month 4 | Day 19 | Year 13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WATER MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1
NONE	55058	

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
DT Trucking LLC		862-588-1035
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	61	T		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
DONALD P CAMPBELL				

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Ramiro Day	Ramiro N	04	19	13

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NONE	55062	1

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
AARCO ENVIRONMENTAL SERVICES CORP.	N.Y.R.0.0.0.1.0.7.3.2.6	631-586-5900
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	001	DT		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
DONALD P. CAMPBELL		04	10	13

TRANSPORTER

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]			E0134257

GENERATOR

5. Generator's Name and Mailing Address

NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211

Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)

NATIONAL GRID
254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name [illegible] U.S. EPA ID Number

7. Transporter 2 Company Name Manole DMT U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

EAVENSON SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832

Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NSF COAL TAR CONTAMINATED SOIL NOT DOT NOT RQ'S	001	DT		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

BSM #713264

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name DONALD P CAMPBELL Signature Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Signature Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-284			E0134254

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BAYSHORE RECYCLING
7E CROWS MILL ROAD
KEASBEY, NJ 08832

Facility's Phone: 732-738-5060

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NOT COAL TAR CONTAMINATED NOT DOT NOT RCRA	001	DT			
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
SHIP 2713-284

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2713-264	1		E0134255

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID_NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
254 MARSETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BALTIMORE SOIL MANAGEMENT LLC
N CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA				T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

INT'L

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2713-284	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0134256

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
222-224 [illegible]

6. Transporter 1 Company Name
[illegible]
U.S. EPA ID Number

7. Transporter 2 Company Name
[illegible] DOT [illegible]
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: 732-738-8000
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA	001	DT	[illegible]	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
BGM 2713-284

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			E0134259

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY SE 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11201
Generator's Phone: 718-[illegible]

Generator's Site Address (if different than mailing address)
[illegible]

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: 732-[illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA		DT		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 213204

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL — Signature — Month / Day / Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
2715284			E0134258

GENERATOR

5. Generator's Name and Mailing Address
NATIONAL GRID NY
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
NATIONAL GRID
[illegible] STREET
BROOKLYN, NY 11211

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number
[illegible] — NJ 8090 [illegible] 24

8. Designated Facility Name and Site Address — U.S. EPA ID Number
[illegible]
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT DOT, NOT RCRA	001	DT	[illegible]	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
[illegible]

INT'L

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Donald P Campbell — Signature: Donald P Campbell — Month 04 Day 22 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name [illegible] — Signature — Month 4 Day 23 Year 13

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~NYR000184184~~ DC 04-11-2013

Manifest Doc. No. 123061

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
NYR000157644

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS	001	T	5904	Gal	EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

a. c.
b. d.

J. Handling Codes for Wastes Listed Above
a. c
b. d

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

xac-55

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Donald P. Campbell
Signature: [signature]
Mo. Day Year: 04 24 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frederic Hanson
Signature: [signature]
Mo. Day Year: 04 24 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~N Y R 0 0 0 1 8 4 1 8 4~~ D.C 04-11-2013

Manifest Doc. No. 123062

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

a. c.
b. d.

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Donald P. Campbell
Signature: Donald P. Campbell
Mo. Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 271-284
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0134263

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone: 718-488-6462

Generator's Site Address (if different than mailing address)
4-22-2013
222-284 HESPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
U.S. EPA ID Number

7. Transporter 2 Company Name
Nickelballs DT 2031648
U.S. EPA ID Number

8. Designated Facility Name and Site Address
EAGLE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
Facility's Phone: 732-738-6000
U.S. EPA ID Number: NJD982001502

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NOP COAL TAR CONTAMINATED SOIL NOT DOT REGULATED	001	DT	22	TN
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
DSM 271-284

GENERATOR

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature
Month 04 Day 29 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter Signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name: JESUS PEREZ
Signature
Month 4 Day 29 Year 13

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator)
Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2713-284	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0134262

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN NY 11211

Generator's Site Address (if different than mailing address)
NA[illegible] GRID
25 [illegible]ASPETH AVENUE
BROOKLYN, NY 11211

Generator's Phone:

6. Transporter 1 Company Name
[illegible]
U.S. EPA ID Number

7. Transporter 2 Company Name
Manolis DOT 01398410
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT [illegible]
75 CROWS MILL ROAD
KEASBEY, NJ 08[illegible]
U.S. EPA ID Number

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP COAL TAR CONTAMINATED SOIL NOT DOT NOT RCRA	001	DT	E-E 22	TN
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

BSM 2713-284

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Month 01 Day 29 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name: [illegible] Flores
Signature
Month 25 Day 29 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2713-284
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: E0134261

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone: 718-263-6455

Generator's Site Address (if different than mailing address)
4-22-2013
227-35 FOSTER AVENUE
BROOKLYN, NY 11236

6. Transporter 1 Company Name
U.S. EPA ID Number

7. Transporter 2 Company Name
Nicksellers DOT 2C36648
U.S. EPA ID Number

8. Designated Facility Name and Site Address
BAYSHORE SOIL MANAGEMENT LLC
75 CROWS MILL ROAD
KEASBEY, NJ 08832
U.S. EPA ID Number: NJ1225071552
Facility's Phone: 732-738-6000

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	MGP COAL TAR CONTAMINATED SOIL NOT HOT NOT FIRE	001	DT	Est. 22	TN	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
BSM 2713-284

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Month 4 Day 29 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month Day Year
Transporter 2 Printed/Typed Name: Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Signature: Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2713-264	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0134264

5. Generator's Name and Mailing Address
NATIONAL GRID NY EE 4-22-2013
ONE METROTECH CENTER
BROOKLYN, NY 11211
Generator's Phone:

Generator's Site Address (if different than mailing address)
EE 4-22-2013
222 - 254 MASPETH AVENUE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
[illegible]
U.S. EPA ID Number

7. Transporter 2 Company Name
T-MAK Services [illegible]
U.S. EPA ID Number

8. Designated Facility Name and Site Address
[illegible] SOIL MANAGEMENT [illegible]
[illegible] CROWS MILL ROAD
KEASBEY, NJ [illegible]
Facility's Phone: 732-738-6000
U.S. EPA ID Number [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	MGP [illegible] TAP CONTAMINATED SOIL NOT DOT NOT RCRA	001	DT	est 22	TN
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
BAM 2713-264

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P. Campbell
Month 04 Day 29 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name: AAV TAX # 03 [illegible]
Signature: [illegible]
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number 2713-264	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number E0134265

5. Generator's Name and Mailing Address
NATIONAL GRID NY 4-22-2013
ONE METROTECH CENTER
BROOKLYN NY 112
Generator's Phone: 718-[illegible]

Generator's Site Address (if different than mailing address)
NATIONAL GRID
254 MASPETH AVENUE
ROOKLYN, NY 11211

6. Transporter 1 Company Name | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address | U.S. EPA ID Number
[illegible]
75 [illegible] MILL ROAD
[illegible]
Facility's Phone: 732-738-6000

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MGP COAL TAR CONTAMINATED [illegible] NOT [illegible]	[illegible]	[illegible]	[illegible]	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
BSM 2713-264

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL | Signature: Donald P. Campbell | Month | Day | Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~NYR000184184~~ RC 09-11-2013
Manifest Doc. No. 123060
2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name) ~~William J. Lauer Corp.~~ AArco Environmental Services Corp
6. US EPA ID Number NYR000107326 ~~NYR000157644~~

B. State Transporter's ID ~~2A-531~~ 1A-727
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID 681 586-5400

7. Transporter 2 (Company Name)
8. US EPA ID Number

E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number NY0000968545

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

OOTT 495 gals

I. Additional Description for Materials listed Above
1022-001 - Development Water
a. c.
b. d.

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P. CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 29 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ken Miglino
Signature:
Mo. Day Year: 04 29 13

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

Job # 13-19268

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: 2713-284 CC 4-22-2013
2. Page 1 of 1
3. Emergency Response Phone: 631-586-5100
4. Waste Tracking Number: E0134260

5. Generator's Name and Mailing Address: NATIONAL GRID NY, ONE METROTECH CENTER, BROOKLYN, NY 11211
Generator's Site Address (if different than mailing address): NATIONAL GRID, 254 MACPETH AVENUE, BROOKLYN, NY 11211
Generator's Phone:

6. Transporter 1 Company Name: [illegible]
U.S. EPA ID Number:

7. Transporter 2 Company Name: AA[illegible] DCT 104 135
U.S. EPA ID Number: NYR000107 326

8. Designated Facility Name and Site Address: BAYSHORE SOIL MANAGEMENT LLC, 75 CROWS MILL ROAD, KEASBEY, NJ 08832
U.S. EPA ID Number: [illegible]
Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. MISC COAL TAR CONTAMINATED SOIL NOT COT NOT RCRA	001	BT	20	yds
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
BSM approval #
BSM 2713-284

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DONALD P CAMPBELL
Signature:
Month 05 Day 02 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Signature: Month Day Year
Transporter 2 Printed/Typed Name: Ken Miglino Signature: Month 05 Day 02 Year 13

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Signature: Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Dc. 04-11-2013 N Y R 0 0 0 1 8 4 1 8 4 | Manifest Doc. No. 1 2 3 0 5 9 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.
6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4
B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID:

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5
G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 13 Dc. 04/11/2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Dc. 04-11-2013 NYR000018418 4

Manifest Doc. No. 123059

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name) William J. Lauer Corp.

6. US EPA ID Number NYR000157644

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. 04 Day 11 Year 13 Dc. 04/11/2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ~~NYR000184184~~ Dc 04-11-2013

Manifest Doc. No. 123059

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
NYR000157644

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water
a. c.
b. d.

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: ~~04 11 13~~ Dc 04/11/2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: ~~NYR000184184~~ PC 04-11-2013

Manifest Doc. No: 123058

2. Page 1 of: 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: NYR000157644

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: NY0000968545

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: ~~10~~ ~~11~~ ~~13~~ PC 04-11-2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: ~~N Y R 0 0 0 1 8 4 1 8 4~~ PC 04-11-2013

Manifest Doc. No: 1 2 3 0 5 8

2. Page 1 of: 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

4. Generator's Telephone Number (718) 963-5453

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

5. Transporter 1 (Company Name): William J. Lauer Corp.

6. US EPA ID Number: N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID: 2A-531

C. Transporter 1 Telephone (718) 981-8500

7. Transporter 2 (Company Name)

8. US EPA ID Number

D. State Transporter's ID

E. Transporter 2 Telephone ( )

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number: N Y 0 0 0 0 9 6 8 5 4 5

F. State Facility ID

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	12. Containers Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA / STATE N018
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: ~~10 4 1 1 13~~ PC 04-11-2013

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Mo. Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N Y R 0 0 0 1 8 4 1 8 4 — PE 04/11/2023

Manifest Doc. No. 1 2 3 0 5 8

2. Page 1 of 1

3. Generator's Name and Mailing Address
National Grid NY
One Metrotech Center
Brooklyn, NY 11201

A. National Grid Former Equity MGP Site
254 Maspeth Ave
Brooklyn, NY 11211

4. Generator's Telephone Number (718) 963-5453

5. Transporter 1 (Company Name)
William J. Lauer Corp.

6. US EPA ID Number
N Y R 0 0 0 1 5 7 6 4 4

B. State Transporter's ID 2A-531

C. Transporter 1 Telephone (718) 981-8500

D. State Transporter's ID

7. Transporter 2 (Company Name)

8. US EPA ID Number

E. Transporter 2 Telephone ( )

F. State Facility ID

9. Designated Facility Name and Site Address
Clean Water Of New York, Inc.
3249 Richmond Terrace
Staten Island, NY 10303

10. US EPA ID Number
N Y 0 0 0 0 9 6 8 5 4 5

G. Facility Telephone (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt / Vol	H. Waste No.
a. NON RCRA NON DOT REGULATED LIQUIDS					EPA STATE N018
b.					EPA STATE
c.					EPA STATE
d.					EPA STATE

I. Additional Description for Materials listed Above
1022-001 - Development Water

J. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
24 Hour Emergency Telephone # 877 319-0800

P.O. # 7278

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 23

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year: PE 04/11/23

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

19. Discrepancy Indication Space
Mo. Day Year

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Mo. Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. DC 04-11-2013 ~~N Y R 0 0 0 1 8 4 1 8 4~~ Manifest Doc. No. 1 2 3 0 5 7 2. Page 1 of 1

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D. State Transporter's ID

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E. Transporter 2 Telephone ( )
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Printed/Typed Name: DONALD P CAMPBELL
Signature: Donald P Campbell
Mo. Day Year: 04 11 13 DC 04-11-13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Mo. Day Year

FACILITY

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Printed/Typed Name
Signature
Mo. Day Year

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N Y R 0 0 0 1 8 4 1 8 4 — Manifest Doc. No. 1 2 3 0 5 7 — 2. Page 1 of 1

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B. State Transporter's ID: 2A-531
C. Transporter 1 Telephone (718) 981-8500
D. State Transporter's ID

7. Transporter 2 (Company Name)
8. US EPA ID Number
E. Transporter 2 Telephone ( )
F. State Facility ID

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Staten Island, NY 10303
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G. Facility Telephone (718) 981-4600

GENERATOR

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b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

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1022-001 - Development Water

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Printed/Typed Name: DONALD P CAMPBELL — Signature: Donald P Campbell — Mo. 04 Day 11 Year 13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Mo. Day Year

FACILITY

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Printed/Typed Name — Signature — Mo. Day Year

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

Please type or print.

NON-HAZARDOUS WASTE MANIFEST

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Manifest Doc. No.: 1 2 3 0 5 7
2. Page 1 of: 1

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D. State Transporter's ID:

7. Transporter 2 (Company Name):
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E. Transporter 2 Telephone ( )
F. State Facility ID:

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Signature: Donald P Campbell
Mo. 04 Day 11 Year 13

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Printed/Typed Name:
Signature:
Mo. Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Mo. Day Year

FACILITY

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Printed/Typed Name:
Signature:
Mo. Day Year

GENERATOR'S COPY

Appendix D

Permitting Requirements Correspondence with FDNY

From:	James, Calvin (FDNY)
To:	McCabe, Mark
Subject:	RE: Permitting Requirments - Combustible Liquid Tank
Date:	Tuesday, September 17, 2013 2:50:40 PM

Mr. McCabe .

Because of the mixture of coal tar and water a, fire department permit is not needed for the tank .

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Tuesday, September 17, 2013 1:36 PM
To: James, Calvin (FDNY)
Subject: Permitting Requirments - Combustible Liquid Tank

Inspector James,

AECOM, an environmental consulting company, is conducting a multi-year soil remediation program at a site on Maspeth Ave. in Brooklyn under the oversight of NYSDEC. We are planning to pump a mixture of coal tar and water from below the ground to remove contamination from the site. Data indicates that the recovered material will be a Class III A combustible liquid. The collected material will be temporarily accumulated in a 500 gallon tank pending disposal at a permitted off-site location and will be emptied monthly. The tank will be housed “outside’ within a shipping container and will be equipped with secondary containment.

We’d like to begin to understand the FDNY permitting requirements for the tank. Any help/direction that you could provide would be greatly appreciated.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

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Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101
www.aecom.com